

	<u>Date(s) of Evaluation</u> August 04-05, 08, 2011	<u>Test Report Serial No.</u> 071111K95-T1109-S90P	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

APPENDIX A - SAR MEASUREMENT DATA

Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver	Model:	KNG-P800	764-805 / 806-869 MHz		
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Test Lab Certificate No. 2470.01				

Face SAR Plot #1 (F1)

Date Tested: 08/08/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 24°C; Fluid Temp: 24.2°C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW

Frequency: 777 MHz; Duty Cycle: 1:1

Medium: HSL835 Medium parameters used (interpolated): $f = 777 \text{ MHz}$; $\sigma = 0.834 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.5, 6.5, 6.5); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.10 mW/g

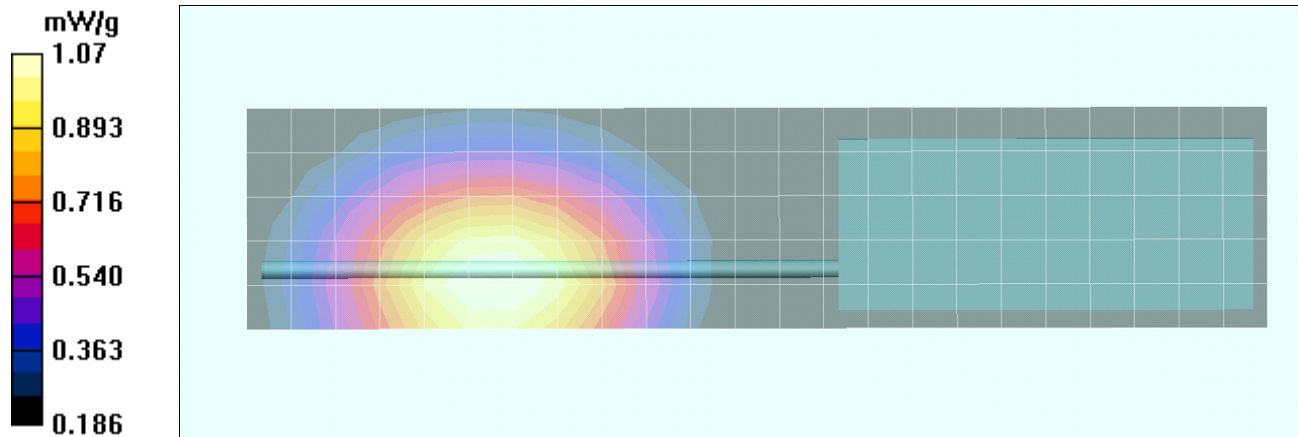
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.99 V/m; Power Drift = -1.79 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.778 mW/g

Maximum value of SAR (measured) = 1.07 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Face SAR Plot #2 (F2)

Date Tested: 08/08/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 24°C; Fluid Temp: 24.2°C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW

Frequency: 777 MHz; Duty Cycle: 1:1

Medium: HSL835 Medium parameters used (interpolated): $f = 777 \text{ MHz}$; $\sigma = 0.834 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.5, 6.5, 6.5); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.999 mW/g

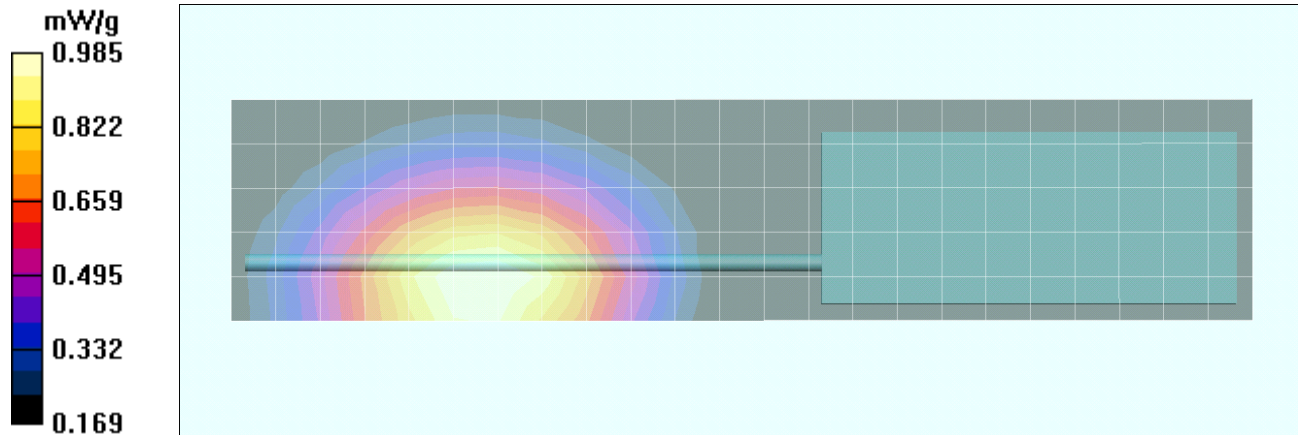
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.58 V/m; Power Drift = 0.818 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.939 mW/g; SAR(10 g) = 0.712 mW/g

Maximum value of SAR (measured) = 0.985 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver	Model:	KNG-P800		764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01				

Face SAR Plot #3 (F3)

Date Tested: 08/08/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 24°C; Fluid Temp: 24.2°C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW

Frequency: 805 MHz; Duty Cycle: 1:1

Medium: HSL835 Medium parameters used: $f = 805 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.5, 6.5, 6.5); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.05 mW/g

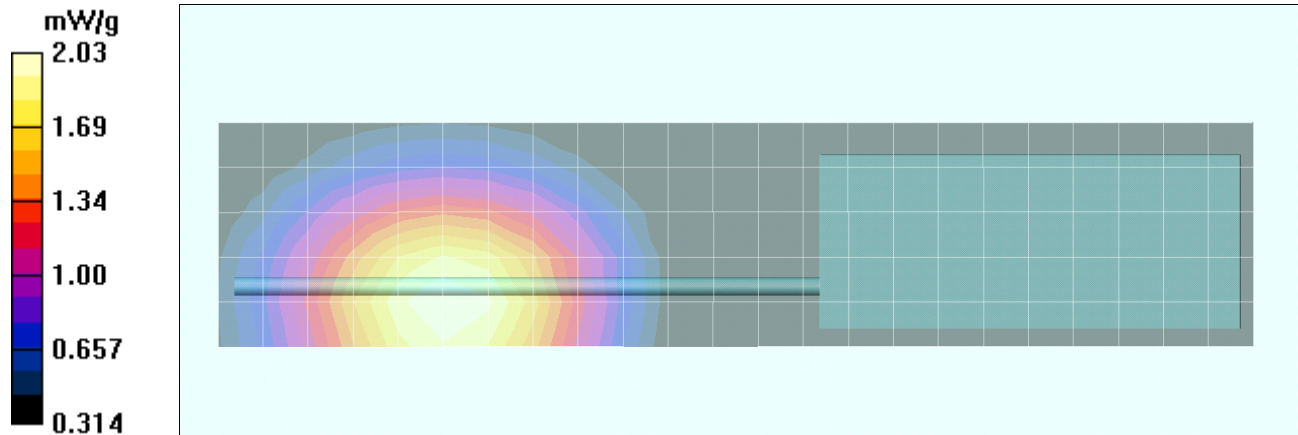
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.88 V/m; Power Drift = 0.262 dB

Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 1.88 mW/g; SAR(10 g) = 1.43 mW/g

Maximum value of SAR (measured) = 2.03 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Face SAR Plot #4 (F4)

Date Tested: 08/08/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 24°C; Fluid Temp: 24.2°C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW

Frequency: 805 MHz; Duty Cycle: 1:1

Medium: HSL835 Medium parameters used: $f = 805 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.5, 6.5, 6.5); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.95 mW/g

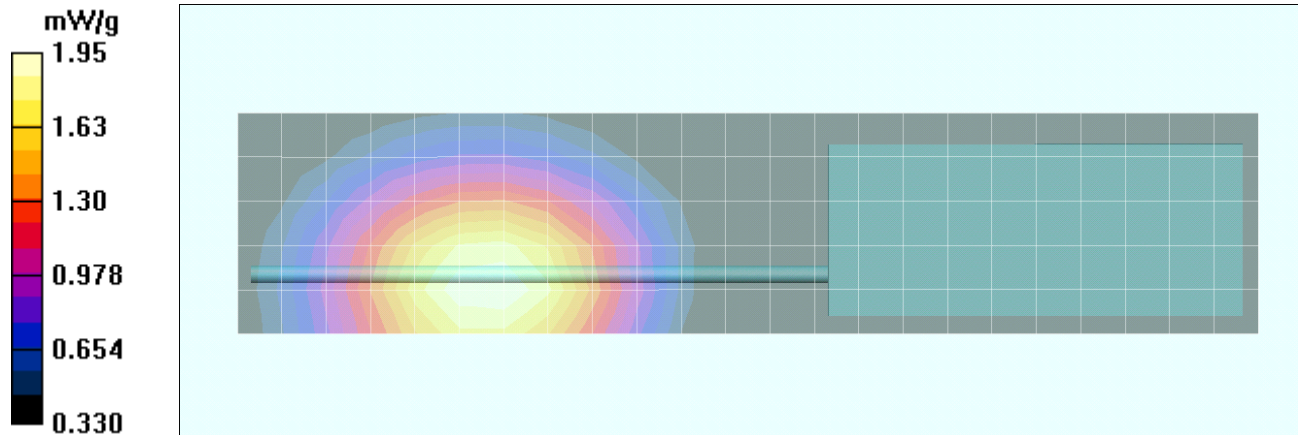
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.05 V/m; Power Drift = 0.191 dB

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 1.85 mW/g; SAR(10 g) = 1.41 mW/g

Maximum value of SAR (measured) = 1.95 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01				

Face SAR Plot #5 (F5)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: HSL835 Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.871 \text{ mho/m}$; $\epsilon_r = 43.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.5, 6.5, 6.5); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.68 mW/g

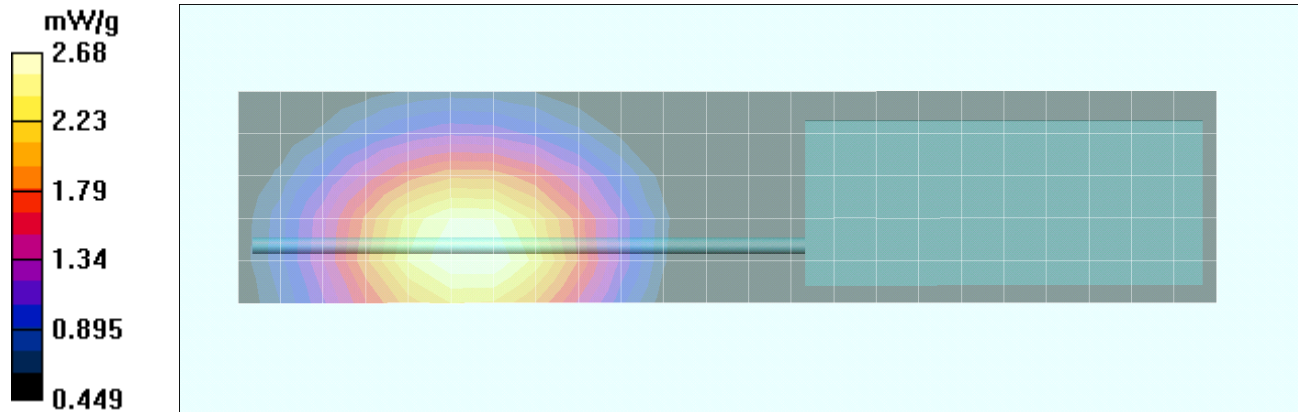
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.9 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 3.14 W/kg

SAR(1 g) = 2.55 mW/g; SAR(10 g) = 1.92 mW/g

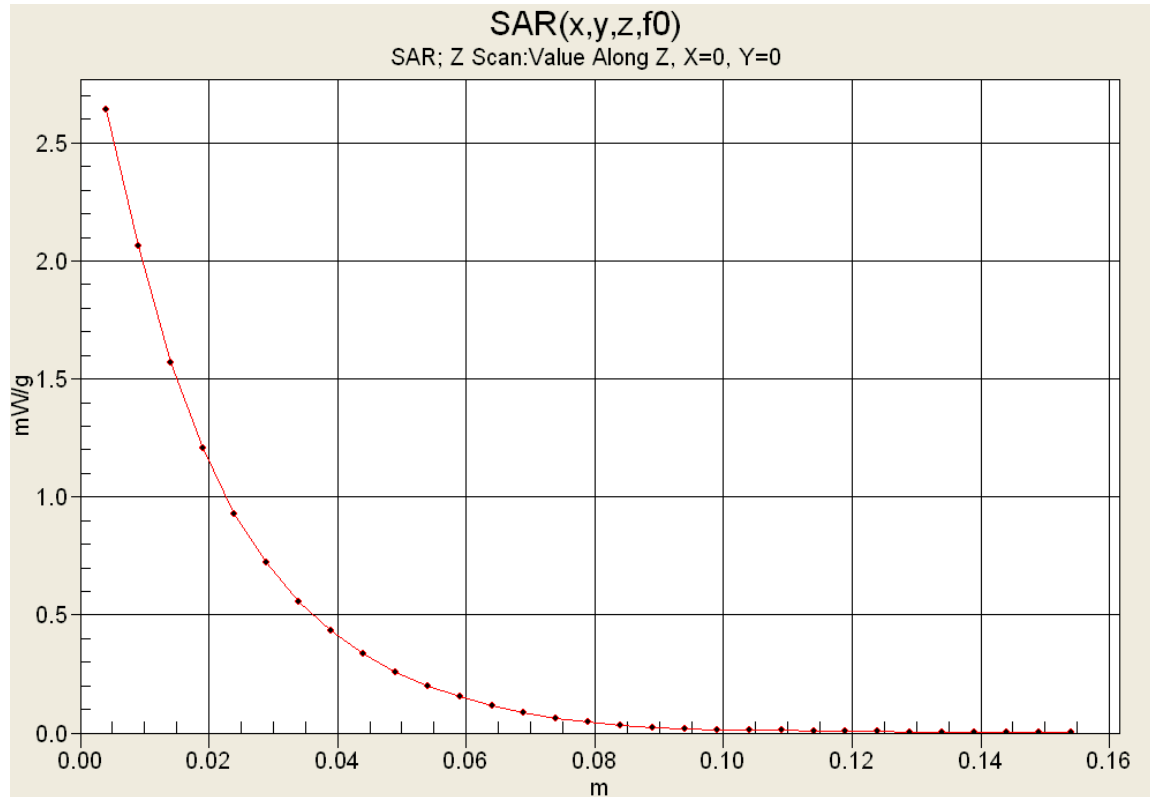
Maximum value of SAR (measured) = 2.68 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Z-Axis Scan



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01				

Face SAR Plot #6 (F6)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: HSL835 Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.871 \text{ mho/m}$; $\epsilon_r = 43.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.5, 6.5, 6.5); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.50 mW/g

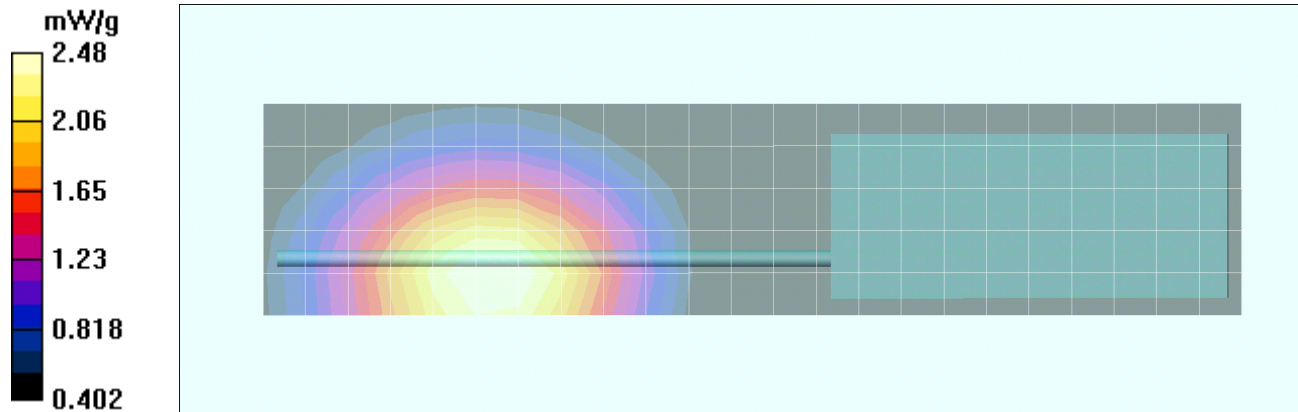
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.2 V/m; Power Drift = 0.100 dB

Peak SAR (extrapolated) = 2.89 W/kg

SAR(1 g) = 2.37 mW/g; SAR(10 g) = 1.8 mW/g

Maximum value of SAR (measured) = 2.48 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01				

Face SAR Plot #7 (F7)

Date Tested: 08/08/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 24°C; Fluid Temp: 24.2°C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: HSL835 Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 0.906 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.5, 6.5, 6.5); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.05 mW/g

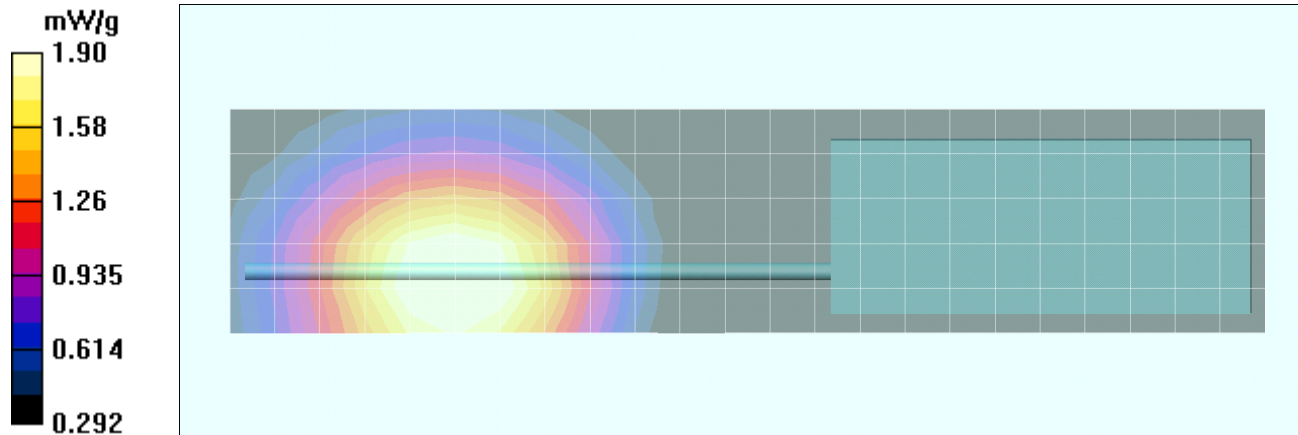
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.4 V/m; Power Drift = -0.528 dB

Peak SAR (extrapolated) = 2.24 W/kg

SAR(1 g) = 1.79 mW/g; SAR(10 g) = 1.34 mW/g

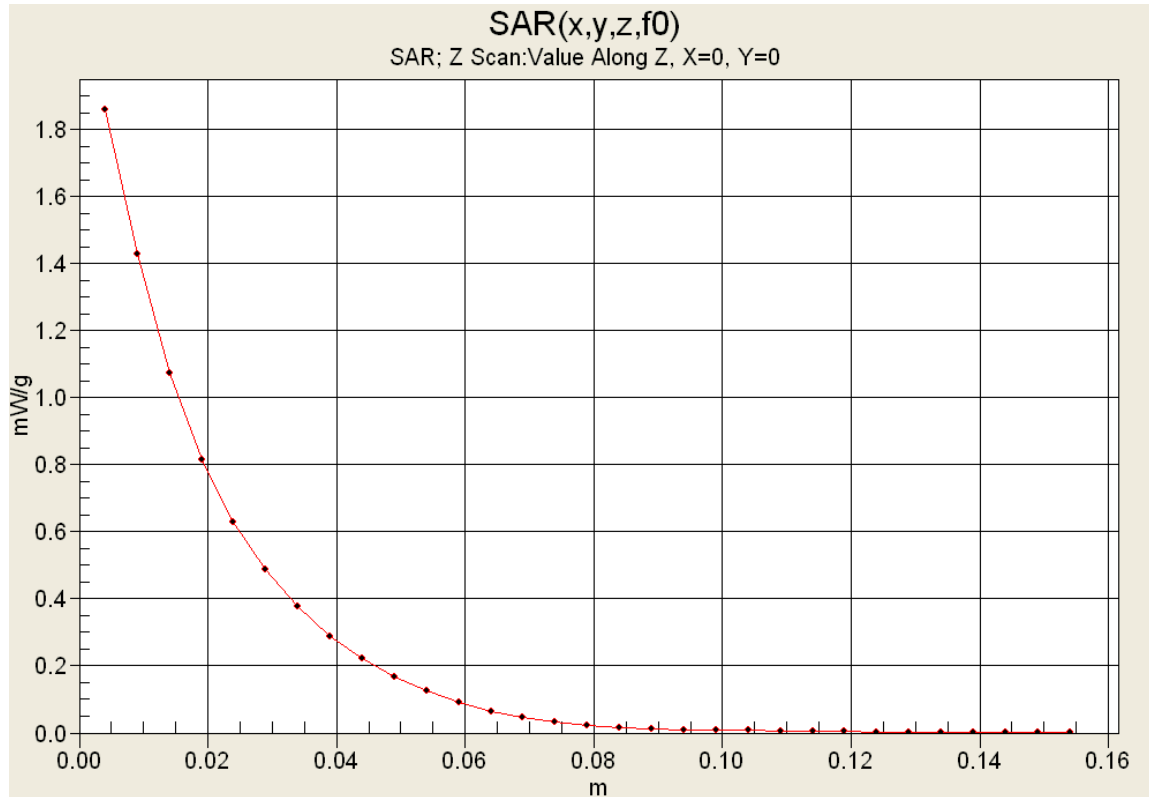
Maximum value of SAR (measured) = 1.90 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Z-Axis Scan



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver	Model:	KNG-P800		764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01				

Face SAR Plot #8 (F8)

Date Tested: 08/08/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 24°C; Fluid Temp: 24.2°C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: HSL835 Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 0.906 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.5, 6.5, 6.5); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.96 mW/g

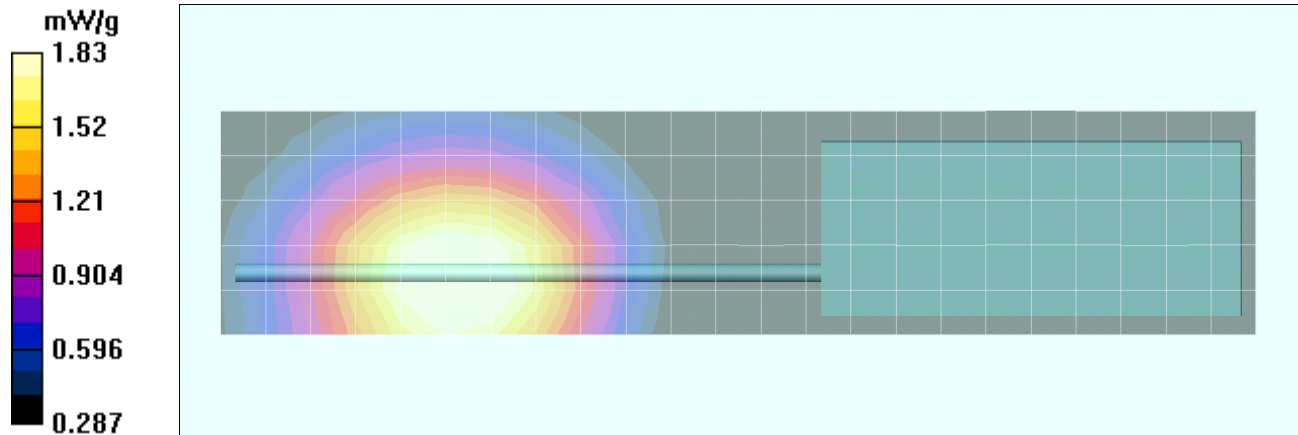
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.5 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 1.74 mW/g; SAR(10 g) = 1.3 mW/g

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



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Body SAR Plot #1 (B1)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.3°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 777 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 777 \text{ MHz}$; $\sigma = 0.912 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.5 cm Carry Case Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.95 mW/g

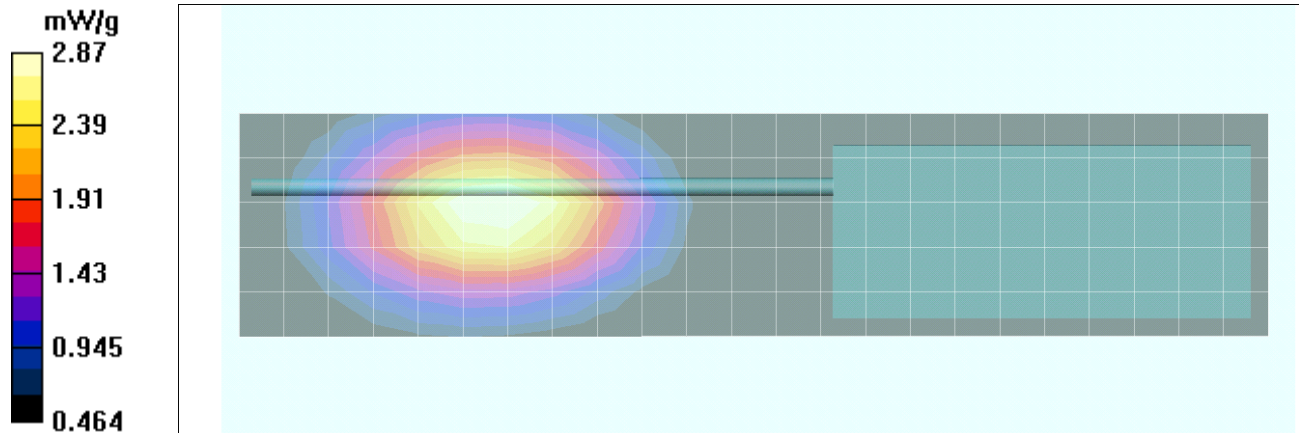
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.1 V/m; Power Drift = -0.304 dB

Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 2.72 mW/g; SAR(10 g) = 2.01 mW/g

Maximum value of SAR (measured) = 2.87 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01

Body SAR Plot #2 (B2)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.3°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 777 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 777 \text{ MHz}$; $\sigma = 0.912 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.5 cm Carry Case Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.87 mW/g

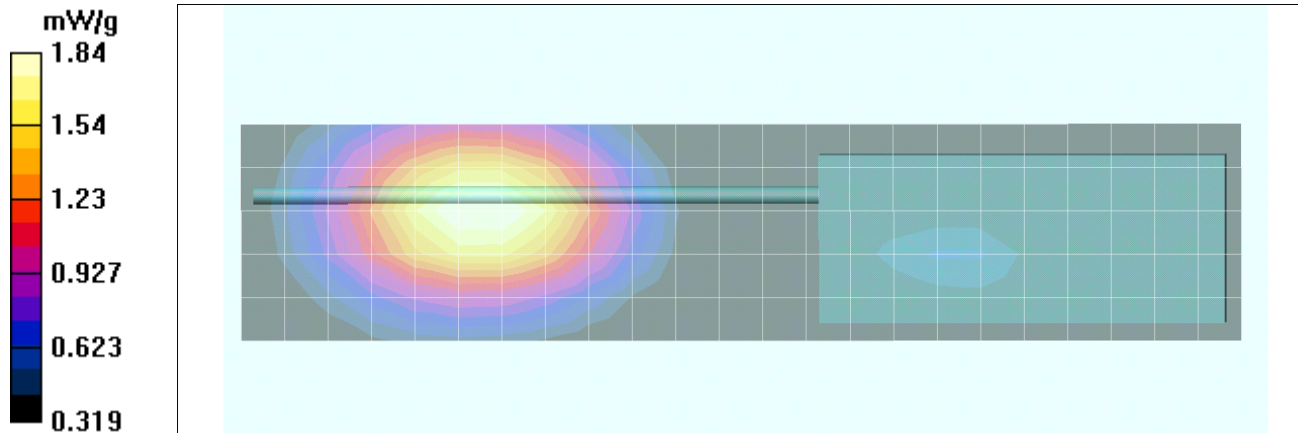
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.1 V/m; Power Drift = -0.292 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 1.75 mW/g; SAR(10 g) = 1.32 mW/g

Maximum value of SAR (measured) = 1.84 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver	Model:	KNG-P800		764-805 / 806-869 MHz	
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	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

Body SAR Plot #3 (B3)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.3°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 805 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used: $f = 805 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.5 cm Carry Case Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 5.14 mW/g

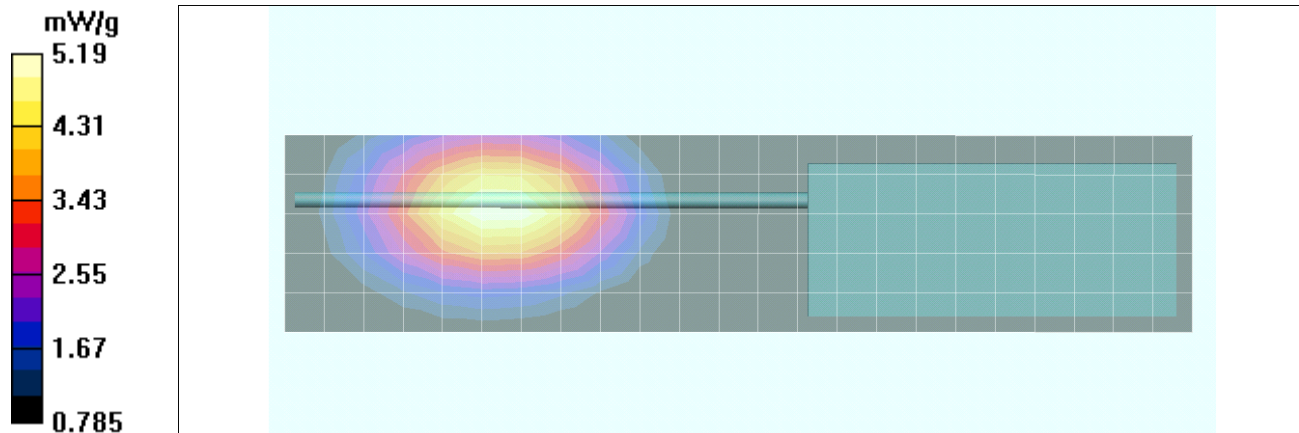
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.0 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 6.11 W/kg

SAR(1 g) = 4.89 mW/g; SAR(10 g) = 3.6 mW/g

Maximum value of SAR (measured) = 5.19 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver	Model:	KNG-P800	764-805 / 806-869 MHz		
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	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Body SAR Plot #4 (B4)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.3°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 805 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used: $f = 805 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.5 cm Carry Case Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.55 mW/g

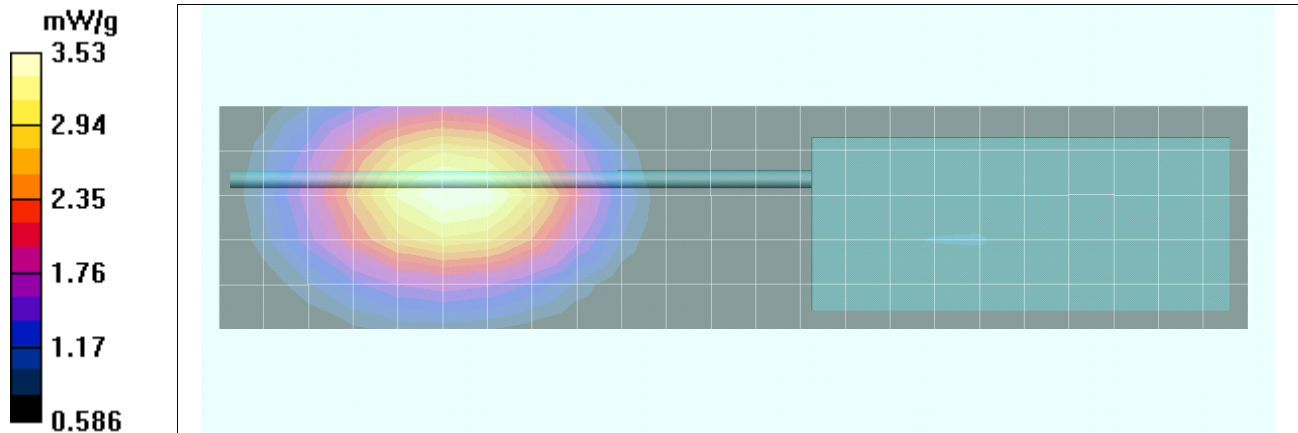
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.4 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 4.12 W/kg

SAR(1 g) = 3.33 mW/g; SAR(10 g) = 2.49 mW/g

Maximum value of SAR (measured) = 3.53 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Body SAR Plot #5 (B5)

Date Tested: 08/04/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.5 cm Carry Case Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 6.80 mW/g

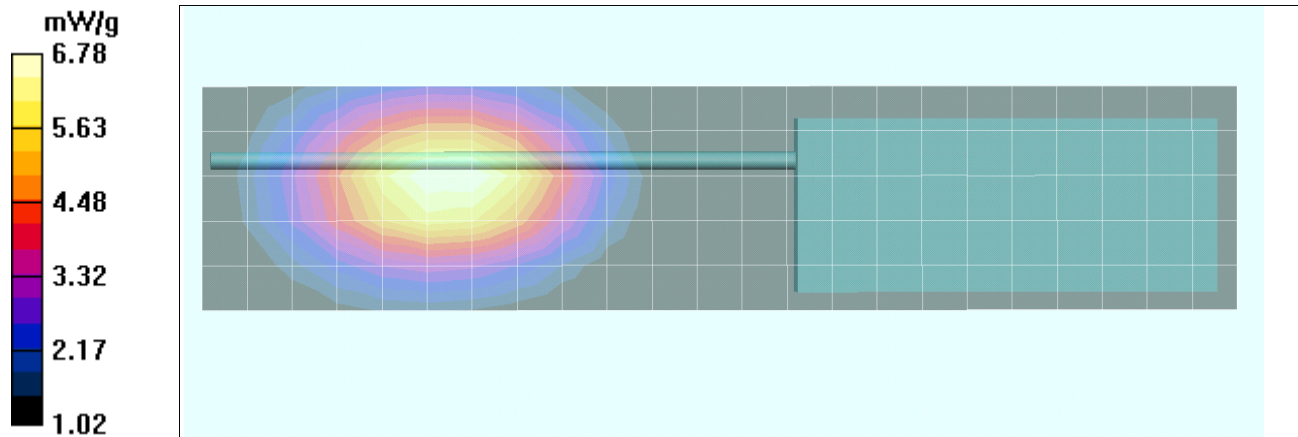
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.3 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 8.02 W/kg

SAR(1 g) = 6.42 mW/g; SAR(10 g) = 4.74 mW/g

Maximum value of SAR (measured) = 6.78 mW/g

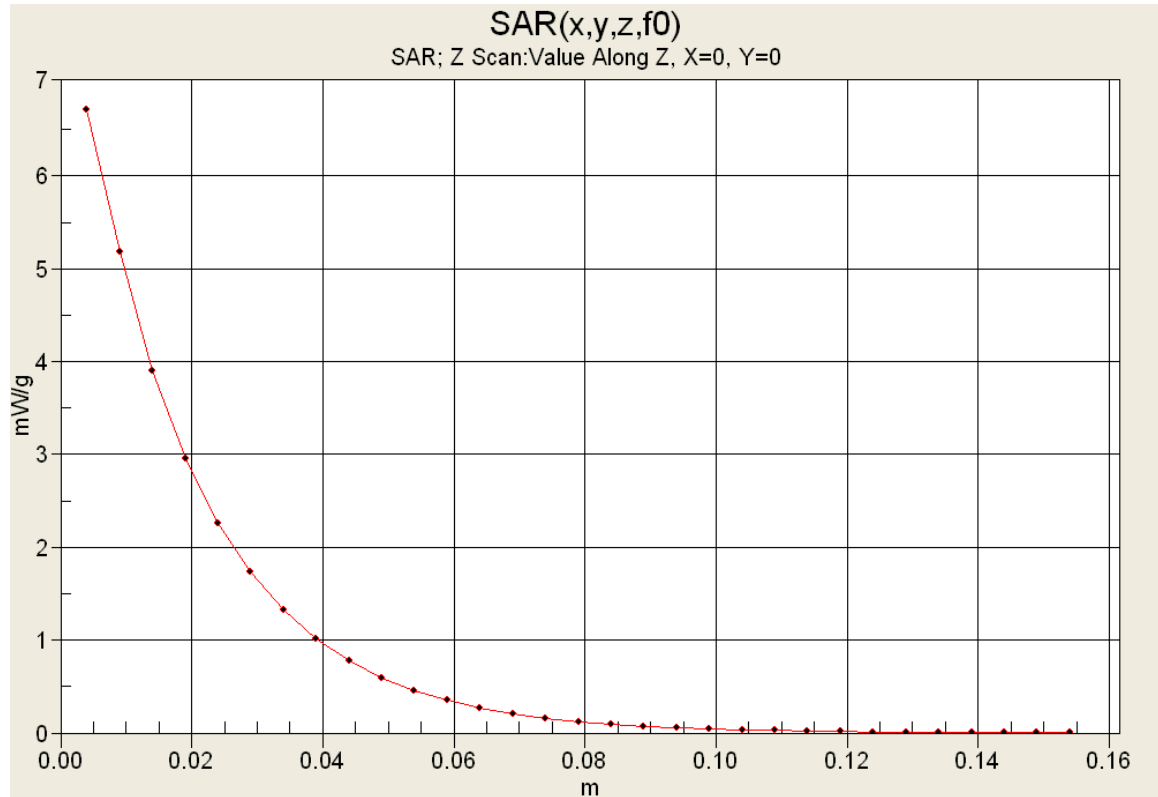


Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01

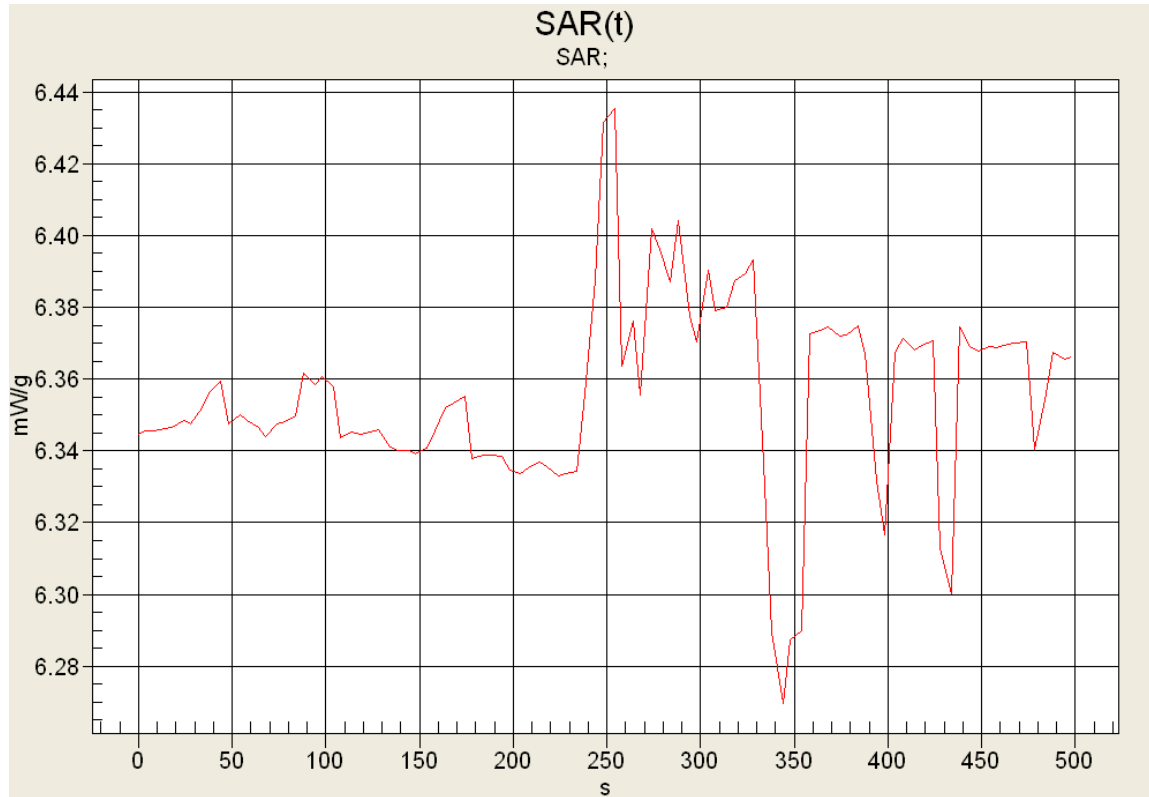
Z-Axis Scan



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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SAR vs. Time



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Body SAR Plot #6 (B6)

Date Tested: 08/04/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.5 cm Carry Case Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.76 mW/g

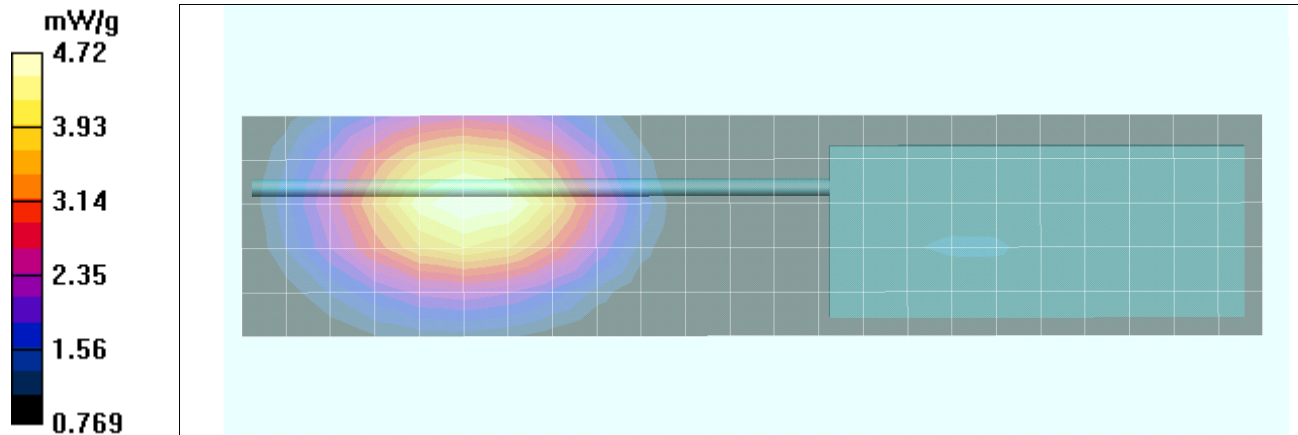
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.2 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 5.53 W/kg

SAR(1 g) = 4.47 mW/g; SAR(10 g) = 3.33 mW/g

Maximum value of SAR (measured) = 4.72 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver	Model:	KNG-P800		764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01				

Body SAR Plot #7 (B7)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.3°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.5 cm Carry Case Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 5.75 mW/g

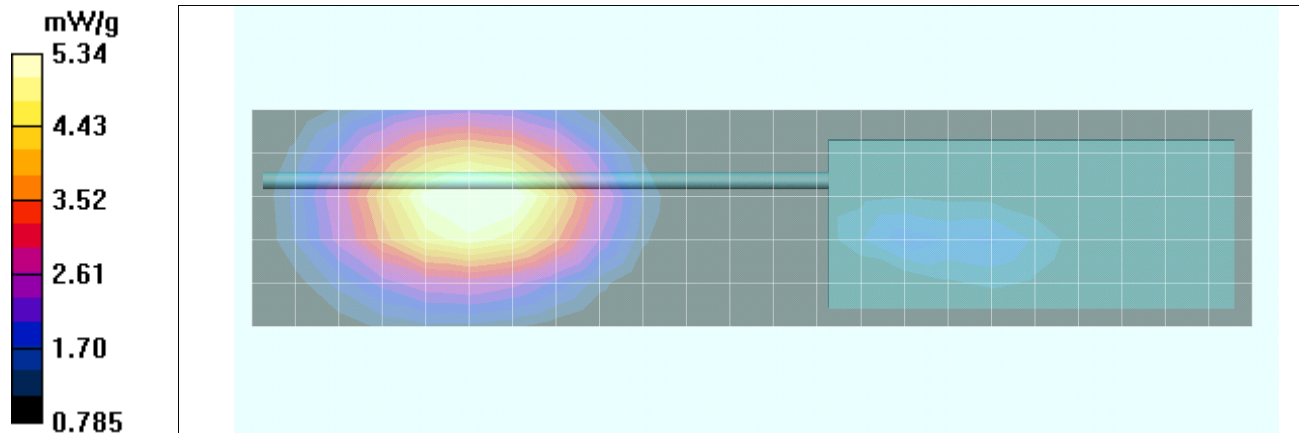
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.5 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 6.31 W/kg

SAR(1 g) = 5.02 mW/g; SAR(10 g) = 3.67 mW/g

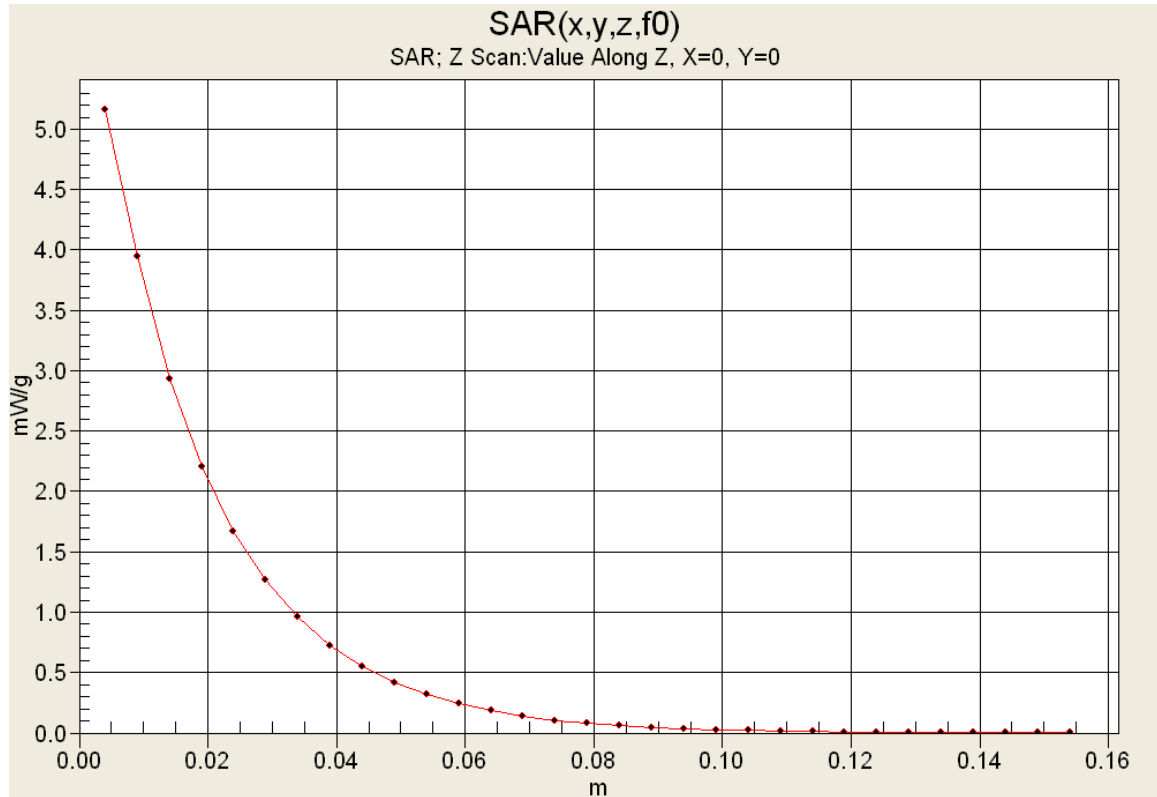
Maximum value of SAR (measured) = 5.34 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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	Test Report Issue Date August 11, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

Z-Axis Scan



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01				

Body SAR Plot #8 (B8)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.3°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 54.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.5 cm Carry Case Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.86 mW/g

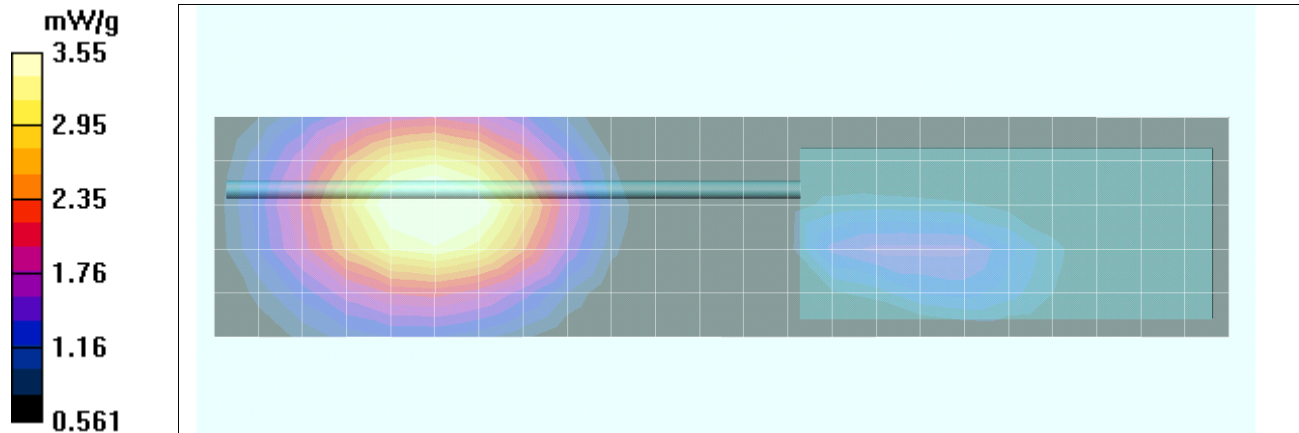
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.8 V/m; Power Drift = -0.162 dB

Peak SAR (extrapolated) = 4.18 W/kg

SAR(1 g) = 3.36 mW/g; SAR(10 g) = 2.49 mW/g

Maximum value of SAR (measured) = 3.55 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01				

Body SAR Plot #9 (B9)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.3°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 777 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 777 \text{ MHz}$; $\sigma = 0.912 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.6 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.70 mW/g

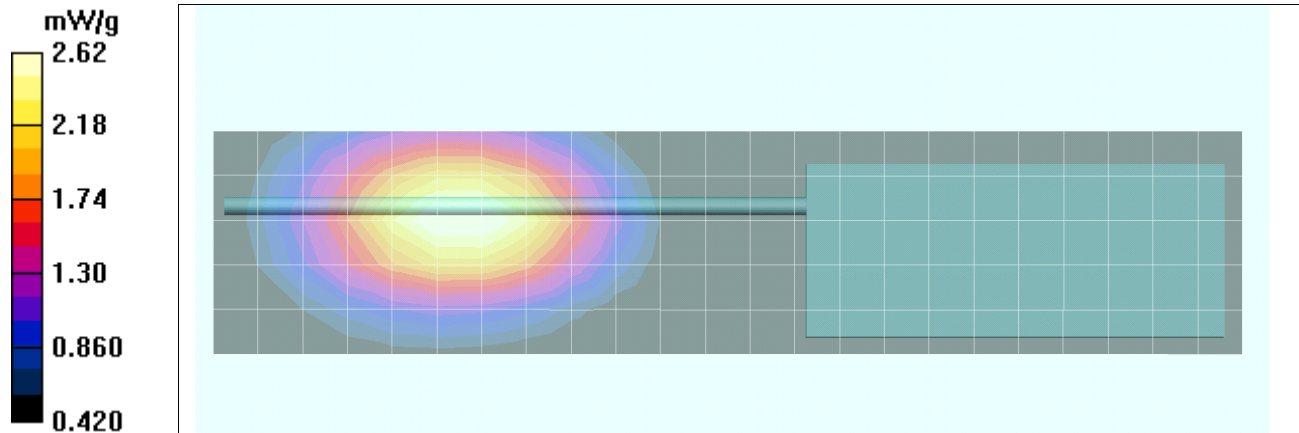
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.1 V/m; Power Drift = -0.293 dB

Peak SAR (extrapolated) = 3.07 W/kg

SAR(1 g) = 2.47 mW/g; SAR(10 g) = 1.84 mW/g

Maximum value of SAR (measured) = 2.62 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01

Body SAR Plot #10 (B10)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.3°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 777 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 777 \text{ MHz}$; $\sigma = 0.912 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.6 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

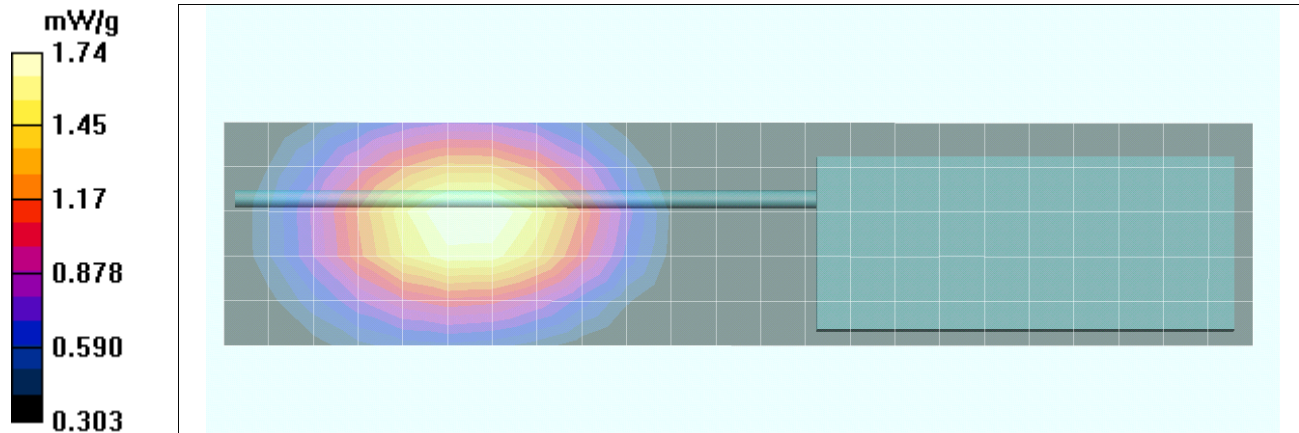
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.5 V/m; Power Drift = -0.284 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 1.65 mW/g; SAR(10 g) = 1.24 mW/g

Maximum value of SAR (measured) = 1.74 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver	Model:	KNG-P800		764-805 / 806-869 MHz	
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	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Body SAR Plot #11 (B11)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.3°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 805 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used: $f = 805 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.6 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.82 mW/g

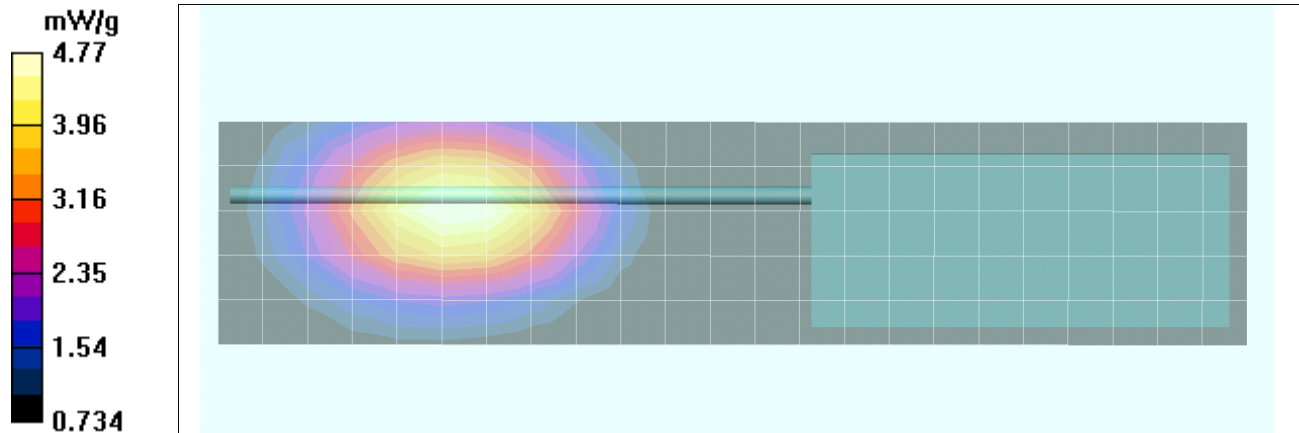
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.4 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 5.61 W/kg

SAR(1 g) = 4.50 mW/g; SAR(10 g) = 3.32 mW/g

Maximum value of SAR (measured) = 4.77 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Body SAR Plot #12 (B12)

Date Tested: 08/05/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.3°C; Barometric Pressure: 101.1 kPa; Humidity: 36%

Communication System: CW

Frequency: 805 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used: $f = 805 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.6 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.28 mW/g

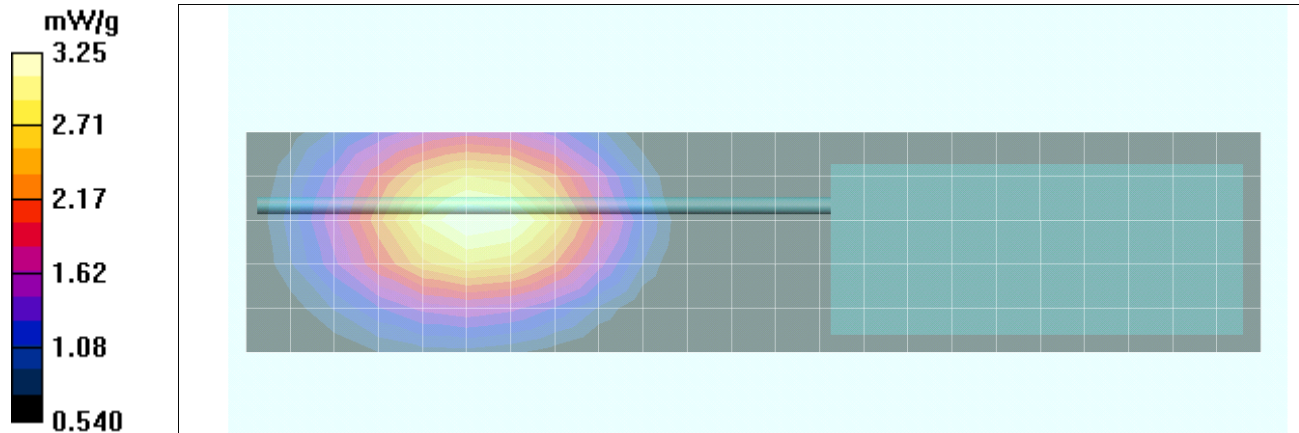
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.9 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 3.07 mW/g; SAR(10 g) = 2.3 mW/g

Maximum value of SAR (measured) = 3.25 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Body SAR Plot #13 (B13)

Date Tested: 08/04/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.6 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 6.61 mW/g

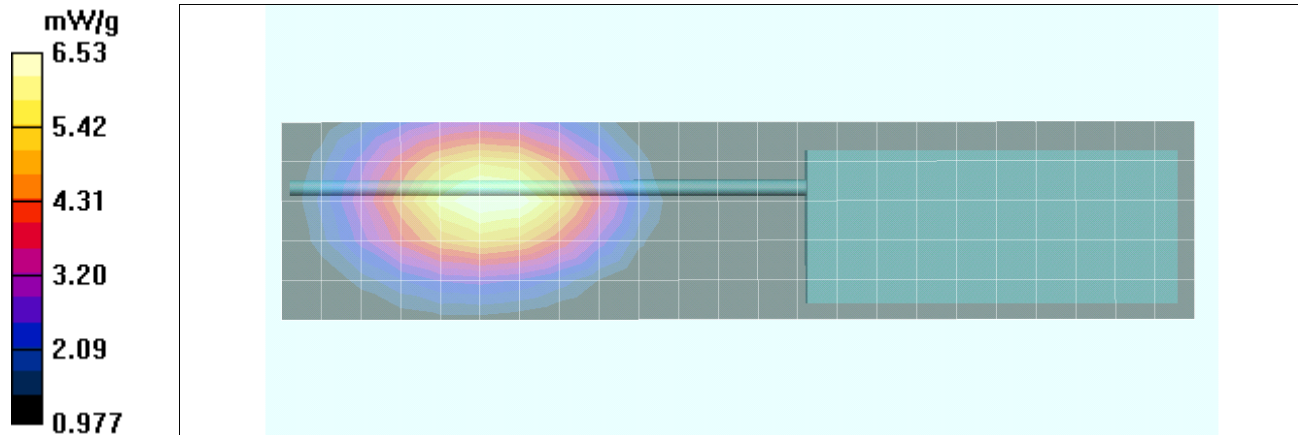
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.7 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 7.69 W/kg

SAR(1 g) = 6.18 mW/g; SAR(10 g) = 4.58 mW/g

Maximum value of SAR (measured) = 6.53 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver	Model:	KNG-P800		764-805 / 806-869 MHz	
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	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Body SAR Plot #14 (B14)

Date Tested: 08/04/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.6 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.42 mW/g

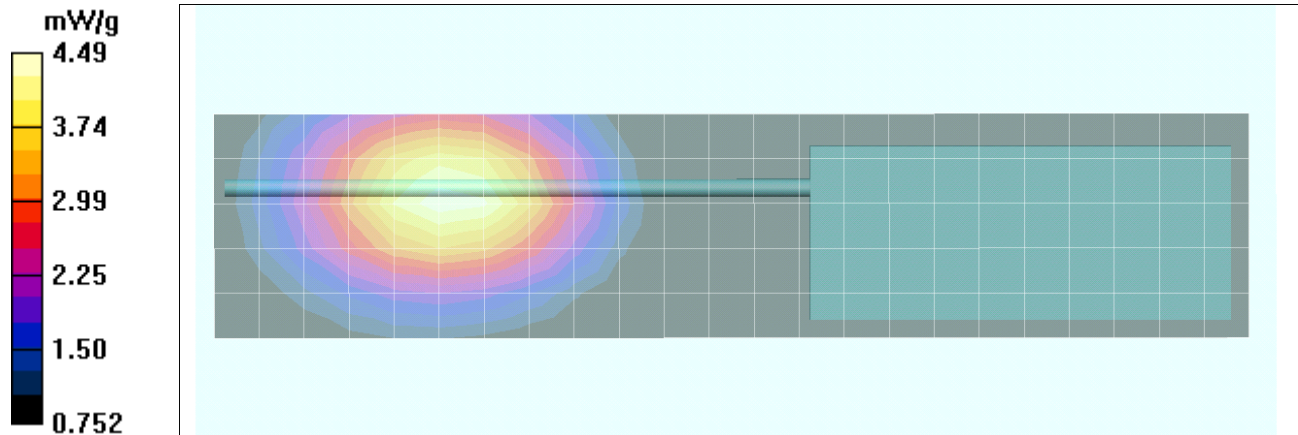
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.5 V/m; Power Drift = 0.226 dB

Peak SAR (extrapolated) = 5.25 W/kg

SAR(1 g) = 4.27 mW/g; SAR(10 g) = 3.19 mW/g

Maximum value of SAR (measured) = 4.49 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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Test Lab Certificate No. 2470.01

Body SAR Plot #15 (B15)

Date Tested: 08/04/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 0.966 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.6 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 4.85 mW/g

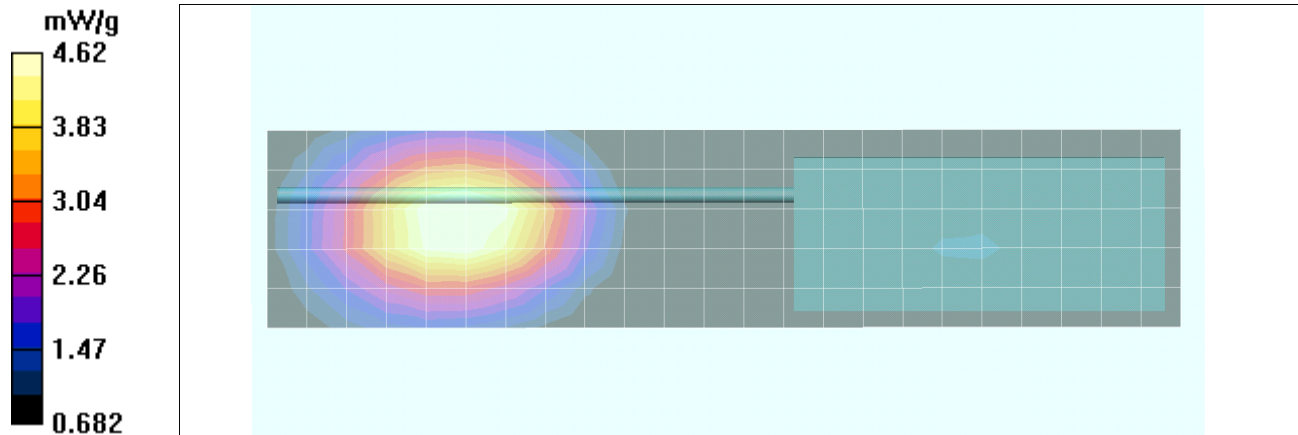
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.3 V/m; Power Drift = -0.619 dB

Peak SAR (extrapolated) = 5.47 W/kg

SAR(1 g) = 4.36 mW/g; SAR(10 g) = 3.18 mW/g

Maximum value of SAR (measured) = 4.62 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver	Model:	KNG-P800		764-805 / 806-869 MHz	
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	<u>Test Report Issue Date</u> August 11, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Body SAR Plot #16 (B16)

Date Tested: 08/04/2011

DUT: Relm KNG-P800; Type: Portable 700/800 P25 PTT Radio Transceiver; Serial: 11130001 (Pre-production)

Ambient Temp: 23°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 0.966 \text{ mho/m}$; $\epsilon_r = 54$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.37, 6.37, 6.37); Calibrated: 22/06/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 1.6 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

Area Scan (6x24x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.51 mW/g

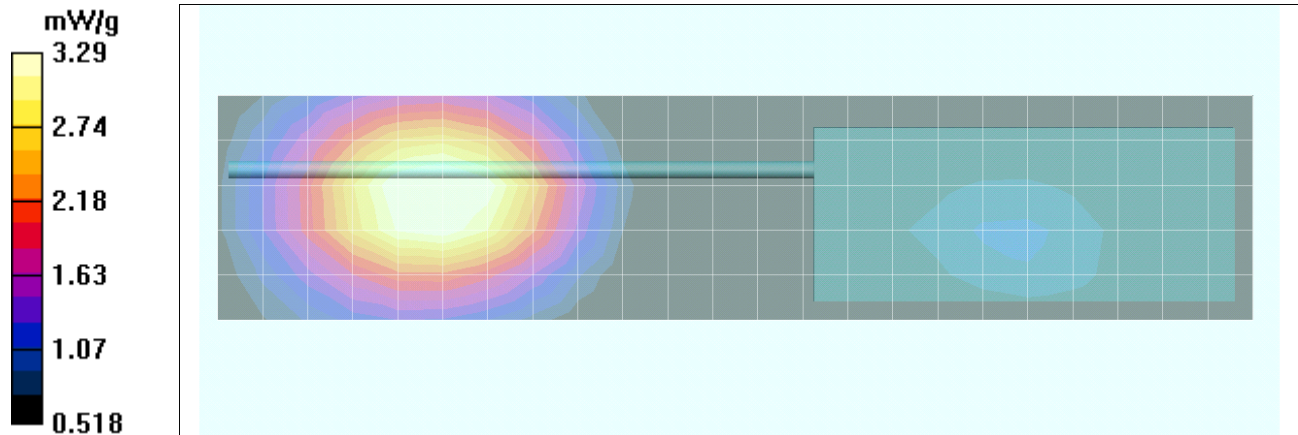
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.4 V/m; Power Drift = -0.571 dB

Peak SAR (extrapolated) = 3.85 W/kg

SAR(1 g) = 3.11 mW/g; SAR(10 g) = 2.31 mW/g

Maximum value of SAR (measured) = 3.29 mW/g



Applicant:	Relm Wireless Corp.	FCC ID:	K95KNGP800C	IC:	2116A-KNGP800C	
DUT Type:	Portable 700/800 P25 PTT Radio Transceiver		Model:	KNG-P800	764-805 / 806-869 MHz	
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