

	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1193-S90V	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

APPENDIX A - SAR MEASUREMENT DATA

Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<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 F1

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.00 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

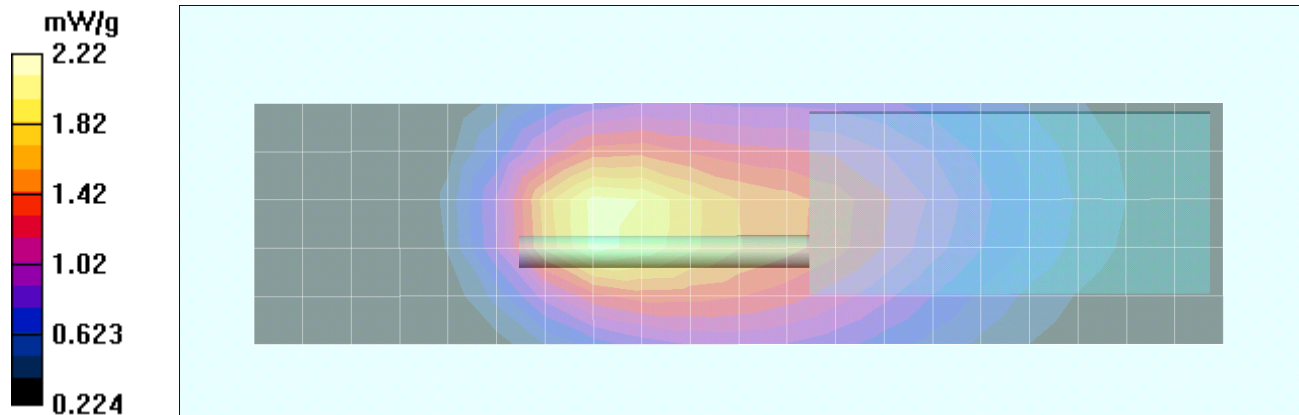
Reference Value = 40.1 V/m; Power Drift = 0.797 dB

Peak SAR (extrapolated) = 5.03 W/kg

SAR(1 g) = 2.2 mW/g; SAR(10 g) = 1.42 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

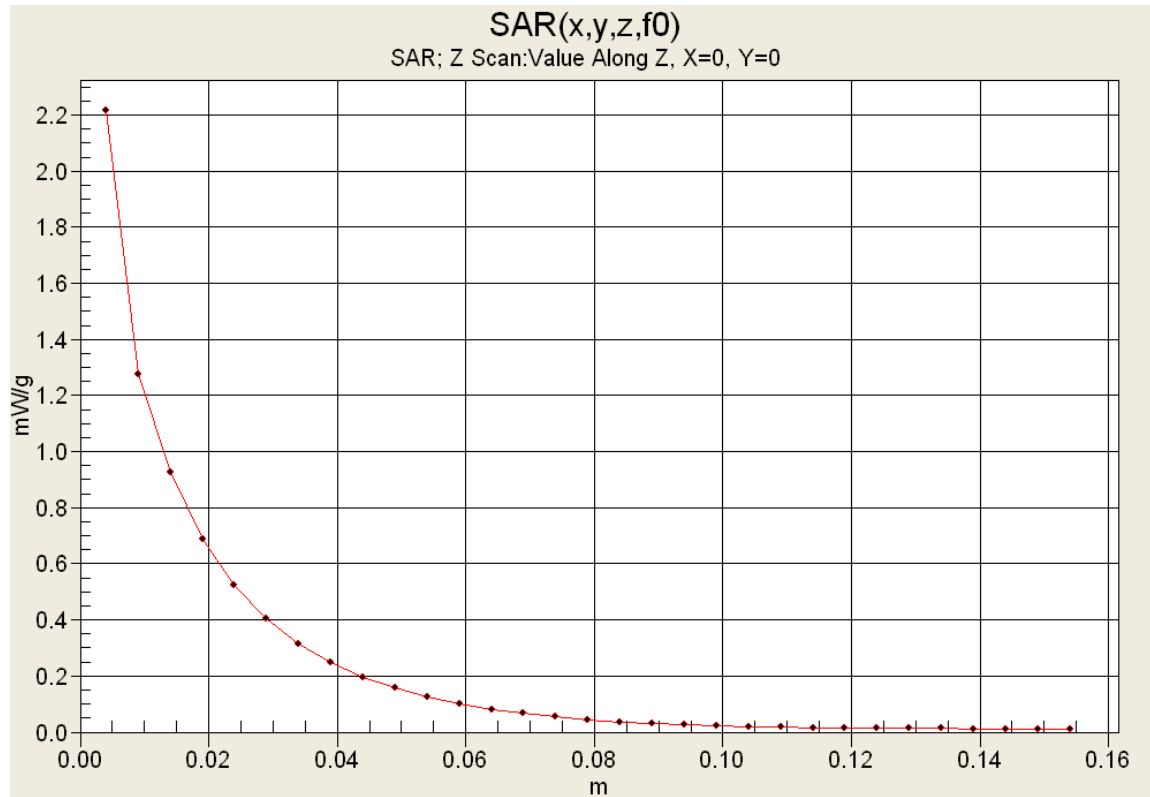
Maximum value of SAR (measured) = 2.22 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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Z-Axis Scan



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Face SAR Plot F2

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.758 \text{ mho/m}$; $\epsilon_r = 52.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.601 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

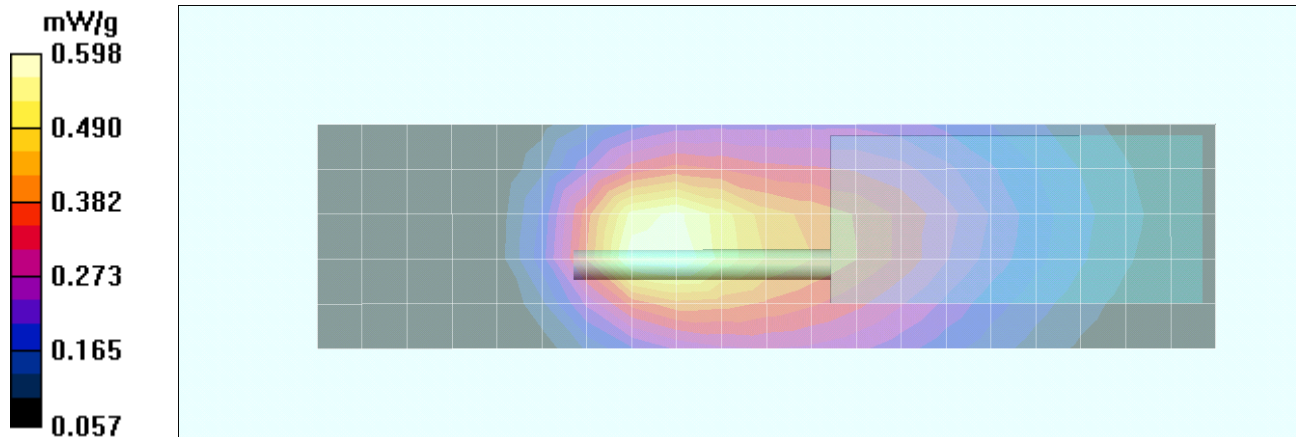
Reference Value = 22.5 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.596 mW/g; SAR(10 g) = 0.380 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.598 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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Face SAR Plot F3

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 144 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 144 \text{ MHz}$; $\sigma = 0.742 \text{ mho/m}$; $\epsilon_r = 55.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.11 mW/g

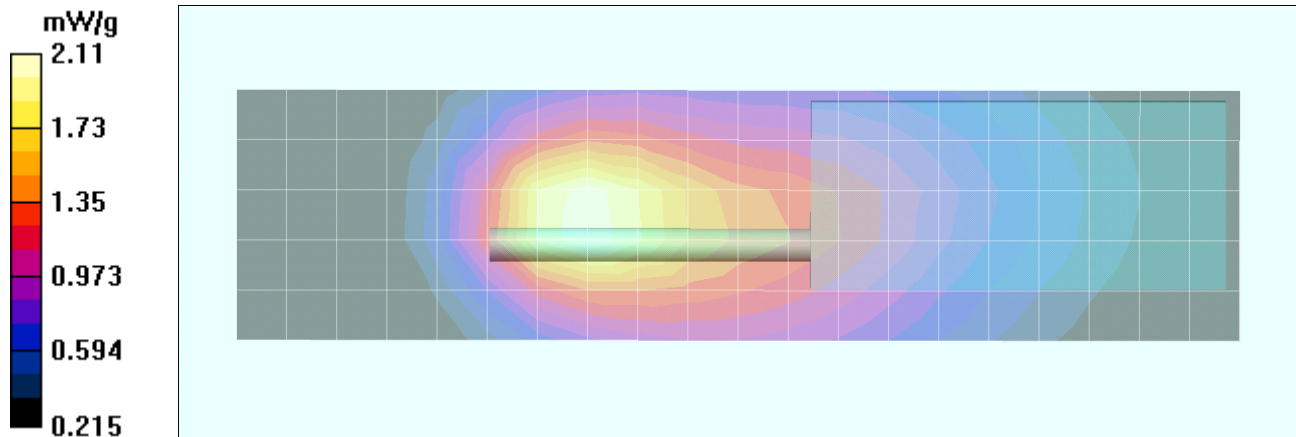
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 43.3 V/m; Power Drift = -0.516 dB

Peak SAR (extrapolated) = 5.02 W/kg

SAR(1 g) = 2.11 mW/g; SAR(10 g) = 1.34 mW/g

Info: Interpolated medium parameters used for SAR evaluation.



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver		Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz	
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Face SAR Plot F4

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASy4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.38 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

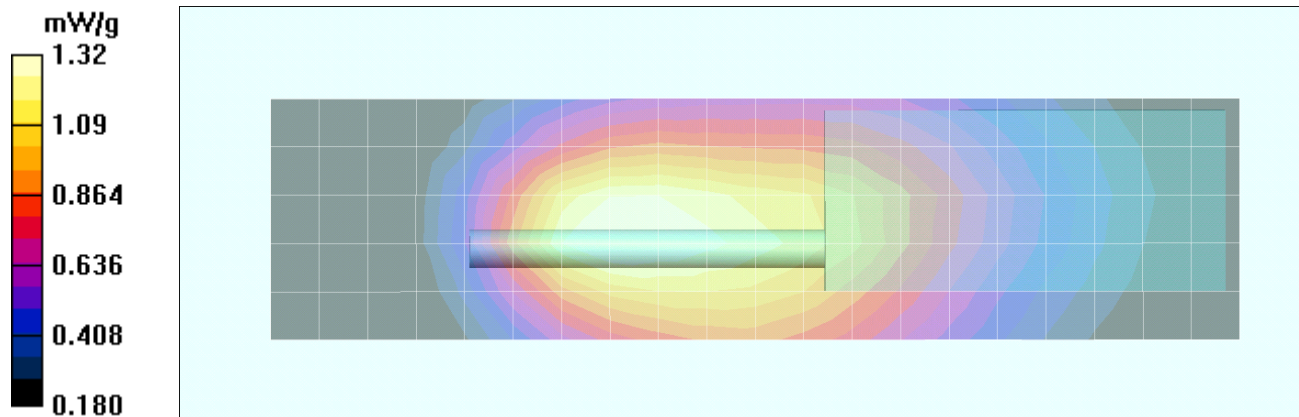
Reference Value = 41.6 V/m; Power Drift = -1.03 dB

Peak SAR (extrapolated) = 2.72 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.895 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

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



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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Test Lab Certificate No. 2470.01

Face SAR Plot F5

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.754 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.584 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

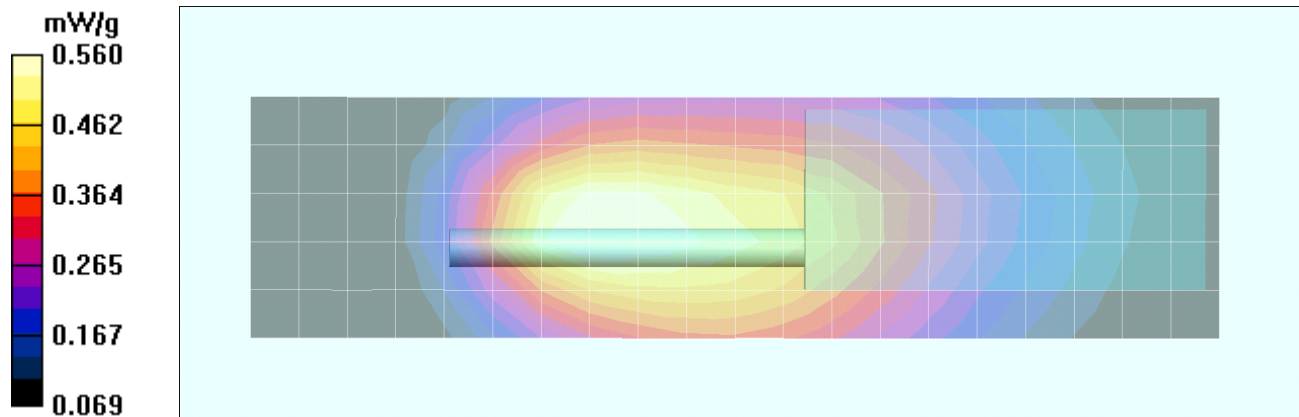
Reference Value = 25.9 V/m; Power Drift = -0.980 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.550 mW/g; SAR(10 g) = 0.372 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.560 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<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 F6

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 144 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 144 \text{ MHz}$; $\sigma = 0.744 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

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

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

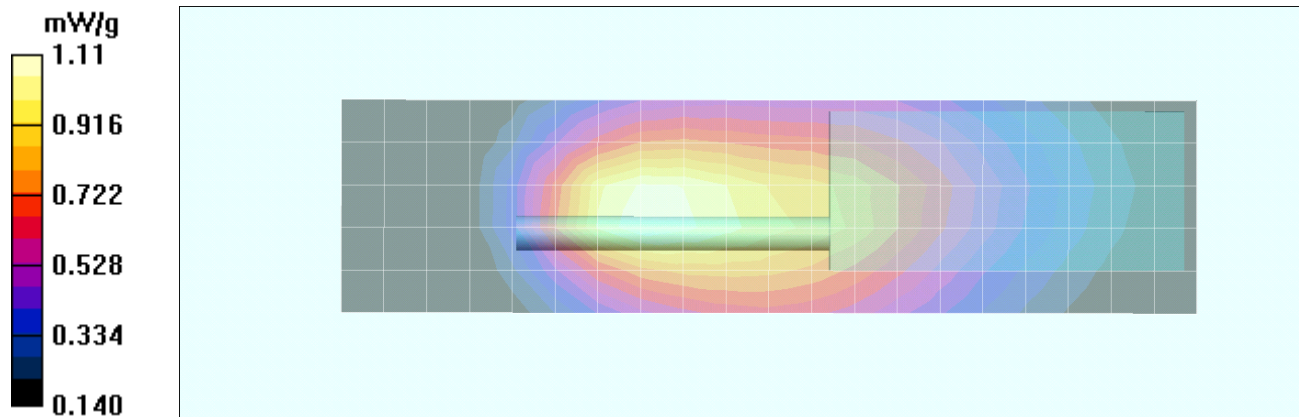
Reference Value = 35.6 V/m; Power Drift = -0.544 dB

Peak SAR (extrapolated) = 2.45 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.734 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.11 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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Face SAR Plot F7

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.06 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

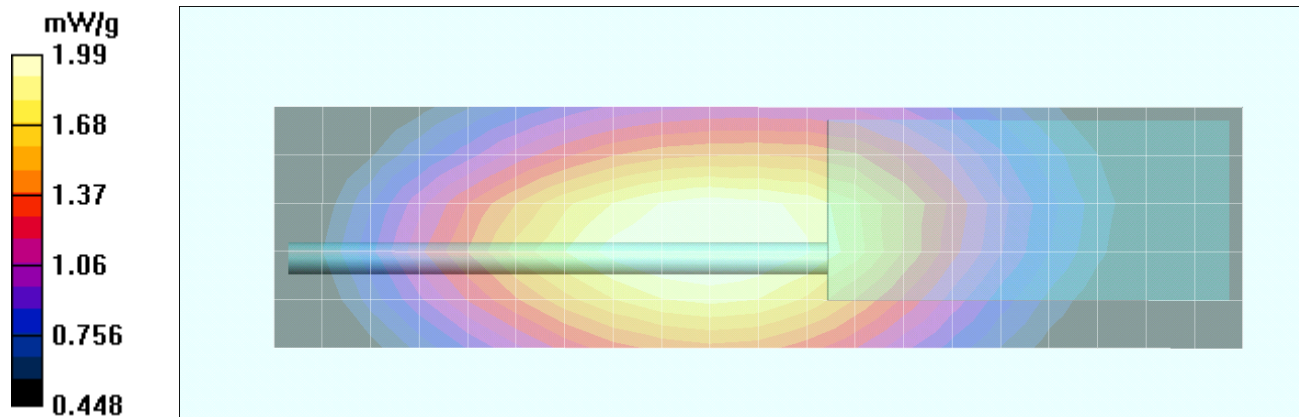
Reference Value = 49.9 V/m; Power Drift = -0.312 dB

Peak SAR (extrapolated) = 2.86 W/kg

SAR(1 g) = 1.93 mW/g; SAR(10 g) = 1.45 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.99 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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Face SAR Plot F8

Date Tested: 08/24/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.754 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.41 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

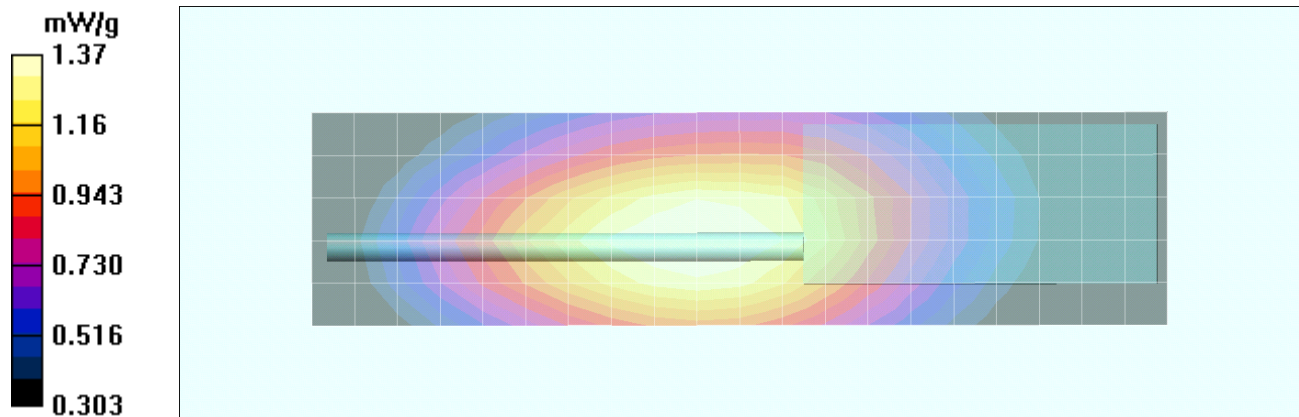
Reference Value = 40.0 V/m; Power Drift = -0.232 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.990 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.37 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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Test Lab Certificate No. 2470.01

Face SAR Plot F9

Date Tested: 08/24/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Ambient Temp: 23.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 144 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 144 \text{ MHz}$; $\sigma = 0.744 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

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

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

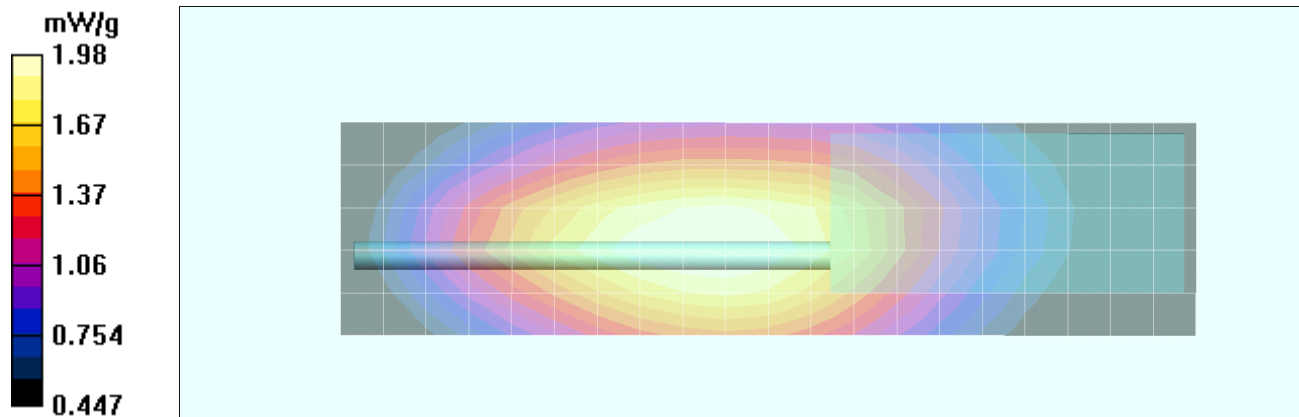
Reference Value = 49.7 V/m; Power Drift = -0.446 dB

Peak SAR (extrapolated) = 2.85 W/kg

SAR(1 g) = 1.92 mW/g; SAR(10 g) = 1.45 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

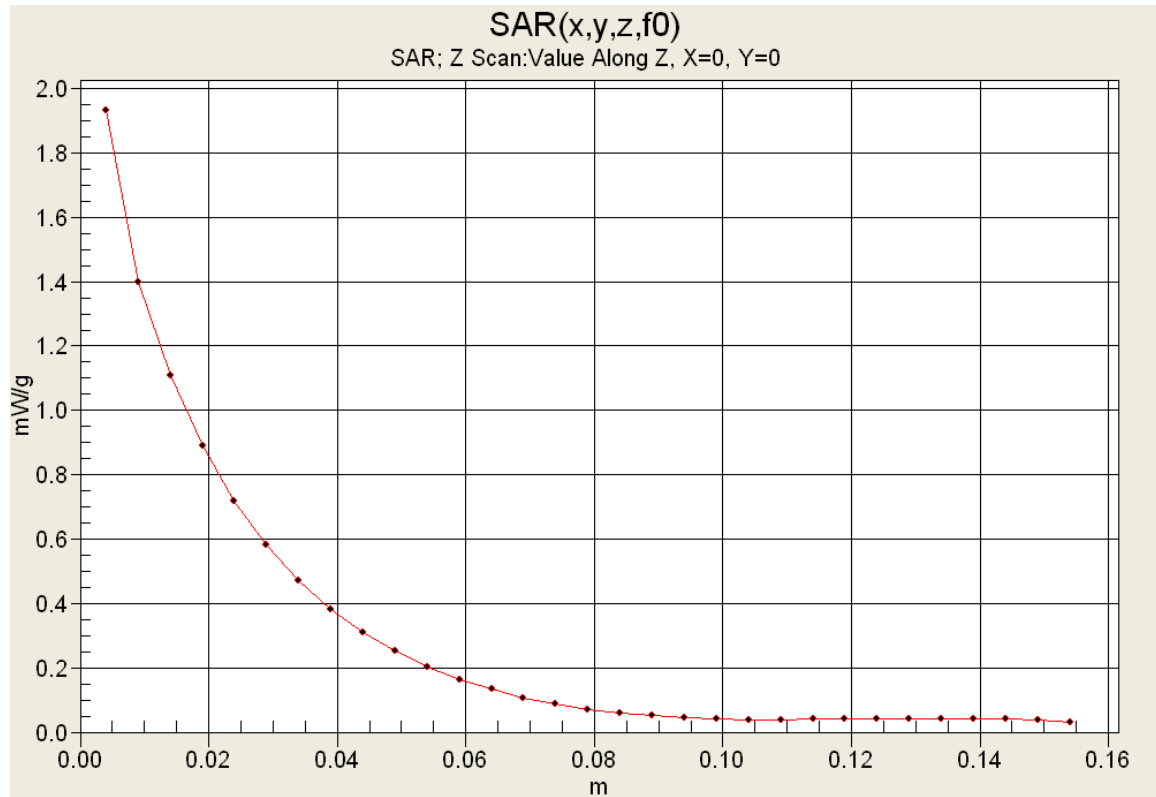
Maximum value of SAR (measured) = 1.98 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Z-Axis Scan



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver		Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz	
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<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 F10

Date Tested: 10/03/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 22.0C; Fluid Temp: 22.9C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.773 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.73 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

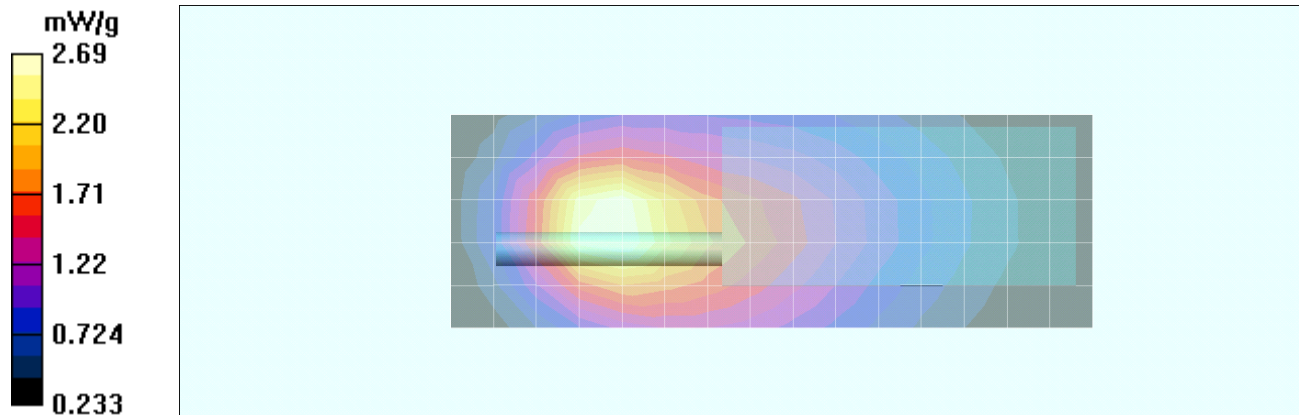
Reference Value = 46.4 V/m; Power Drift = -0.224 dB

Peak SAR (extrapolated) = 6.42 W/kg

SAR(1 g) = 2.7 mW/g; SAR(10 g) = 1.7 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

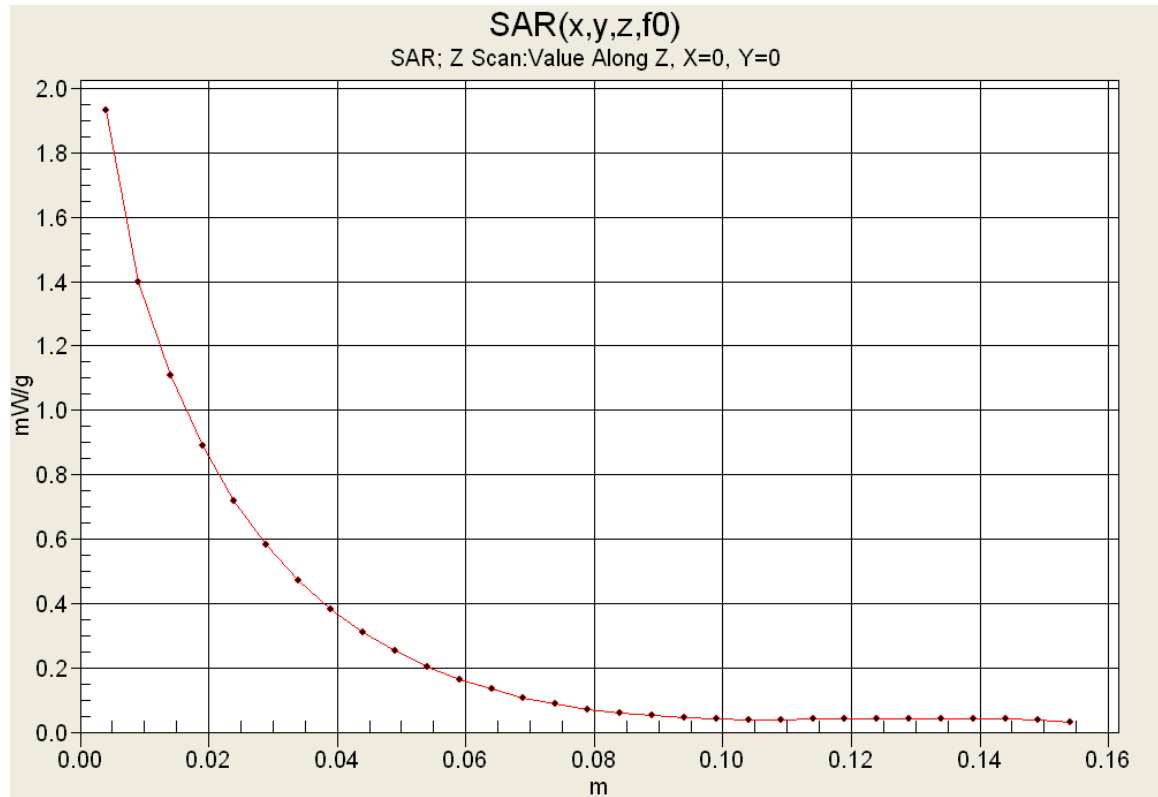
Maximum value of SAR (measured) = 2.69 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Z-Axis Scan



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<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 F11

Date Tested: 10/03/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 22.0C; Fluid Temp: 22.9C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.784 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.433 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

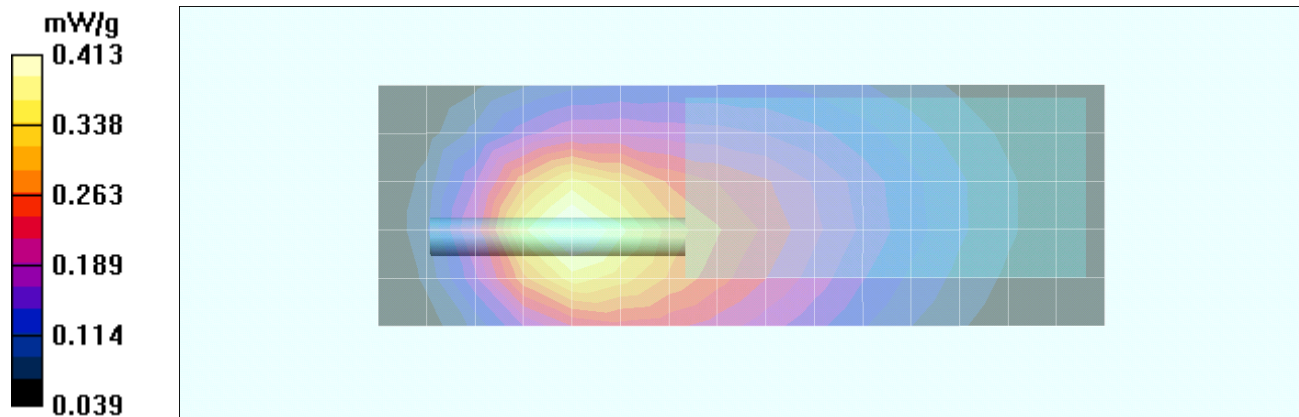
Reference Value = 18.5 V/m; Power Drift = -0.451 dB

Peak SAR (extrapolated) = 0.939 W/kg

SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.260 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.413 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Face SAR Plot F12

Date Tested: 10/03/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 22.0C; Fluid Temp: 22.9C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 144 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 144 \text{ MHz}$; $\sigma = 0.766 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.49 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

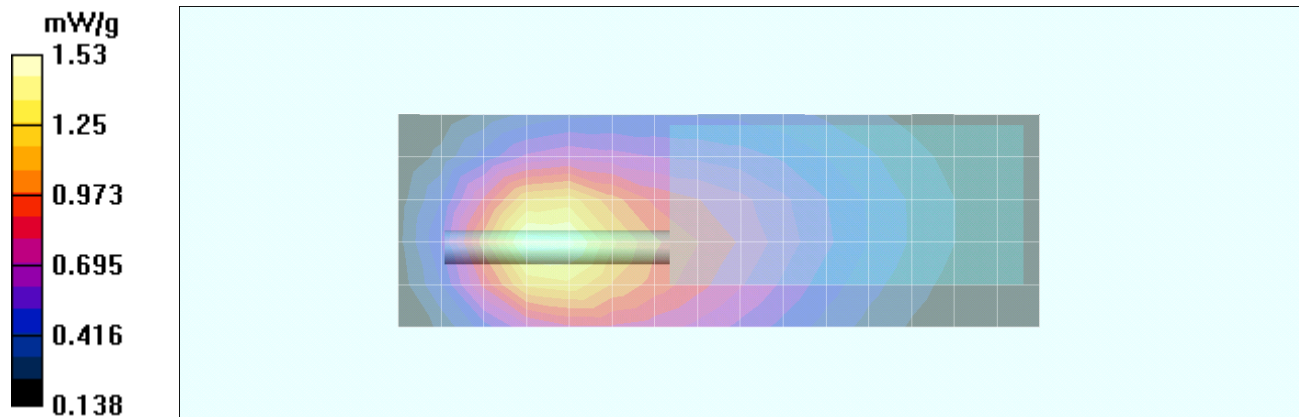
Reference Value = 33.5 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 1.53 mW/g; SAR(10 g) = 0.961 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.53 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver		Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz	
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<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 F13

Date Tested: 10/03/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 22.0C; Fluid Temp: 22.9C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: HSL150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.773 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(9.3, 9.3, 9.3); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.09 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

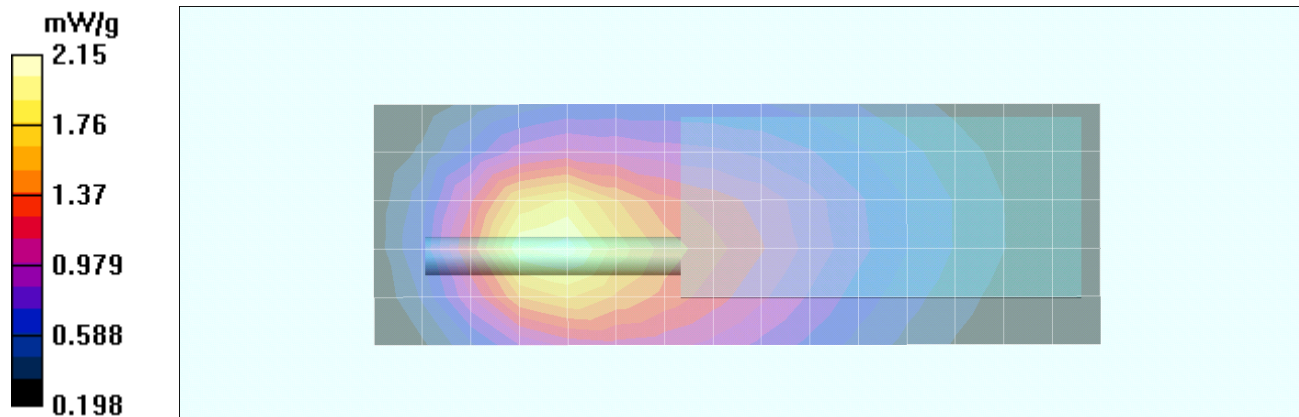
Reference Value = 40.3 V/m; Power Drift = 0.153 dB

Peak SAR (extrapolated) = 5.02 W/kg

SAR(1 g) = 2.17 mW/g; SAR(10 g) = 1.38 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.15 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B1

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 64.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

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

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

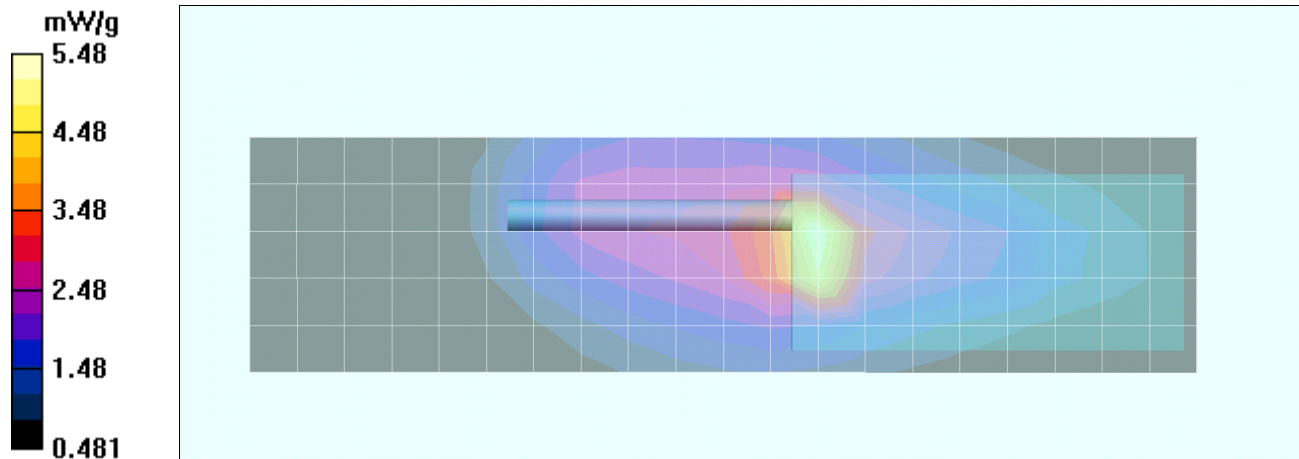
Reference Value = 72.4 V/m; Power Drift = 0.412 dB

Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 5.12 mW/g; SAR(10 g) = 2.74 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 5.48 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<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 B2

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.782 \text{ mho/m}$; $\epsilon_r = 61.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASy4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.35 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

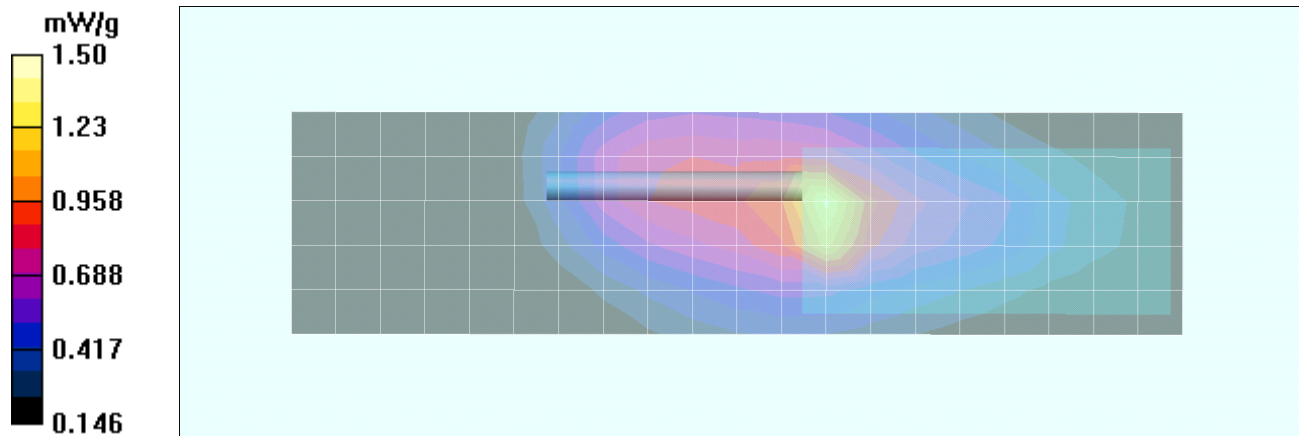
Reference Value = 36.5 V/m; Power Drift = 0.190 dB

Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 1.41 mW/g; SAR(10 g) = 0.800 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.50 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<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 B3

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF10

Frequency: 144 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 144$ MHz; $\sigma = 0.764$ mho/m; $\epsilon_r = 64$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.965 mW/g

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

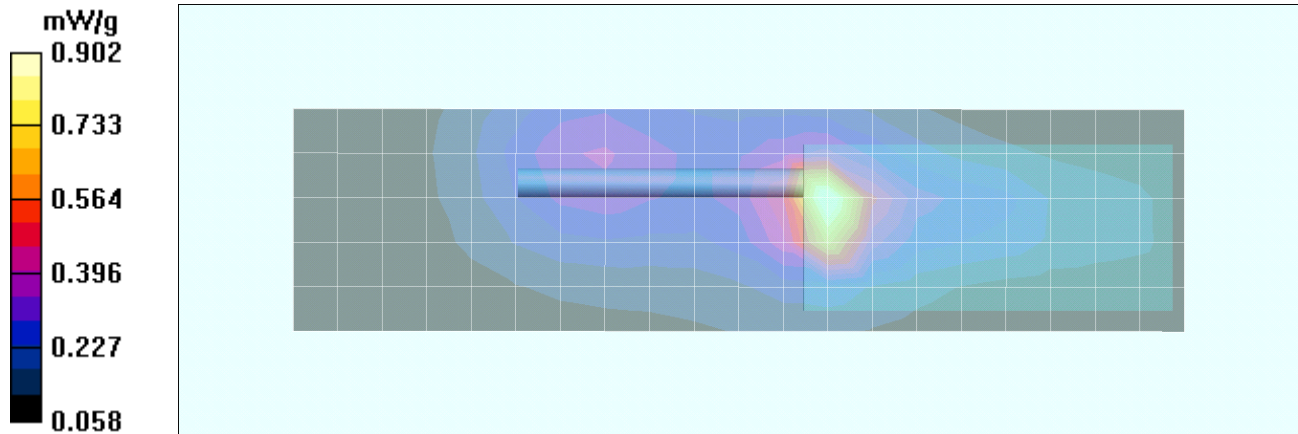
Reference Value = 28.4 V/m; Power Drift = -0.490 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 0.900 mW/g; SAR(10 g) = 0.428 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

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



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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Body SAR Plot B4

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 64.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.74 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

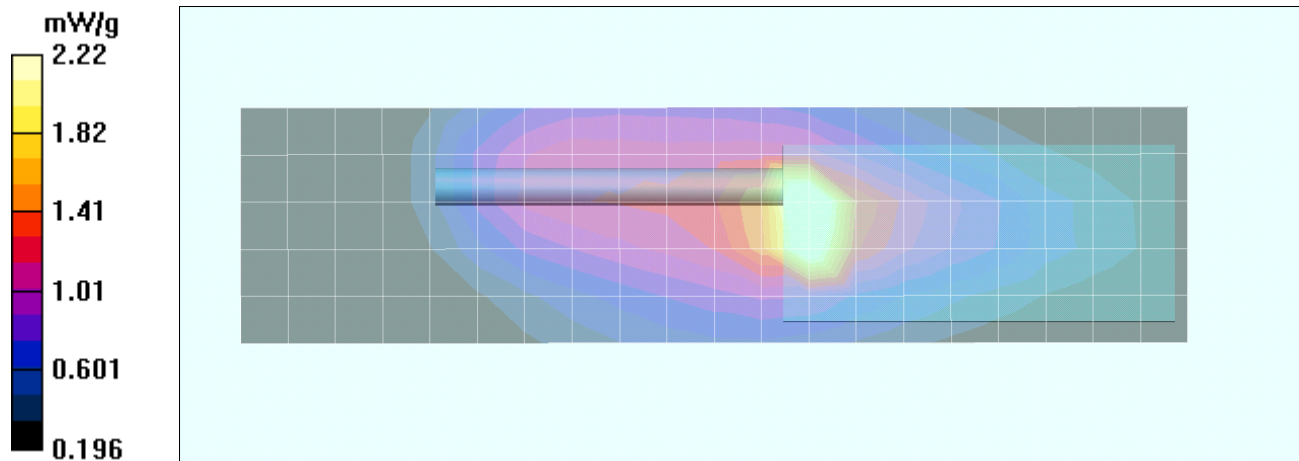
Reference Value = 51.7 V/m; Power Drift = -0.939 dB

Peak SAR (extrapolated) = 6.31 W/kg

SAR(1 g) = 2.08 mW/g; SAR(10 g) = 1.12 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 2.22 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B5

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.752 \text{ mho/m}$; $\epsilon_r = 63.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.78 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

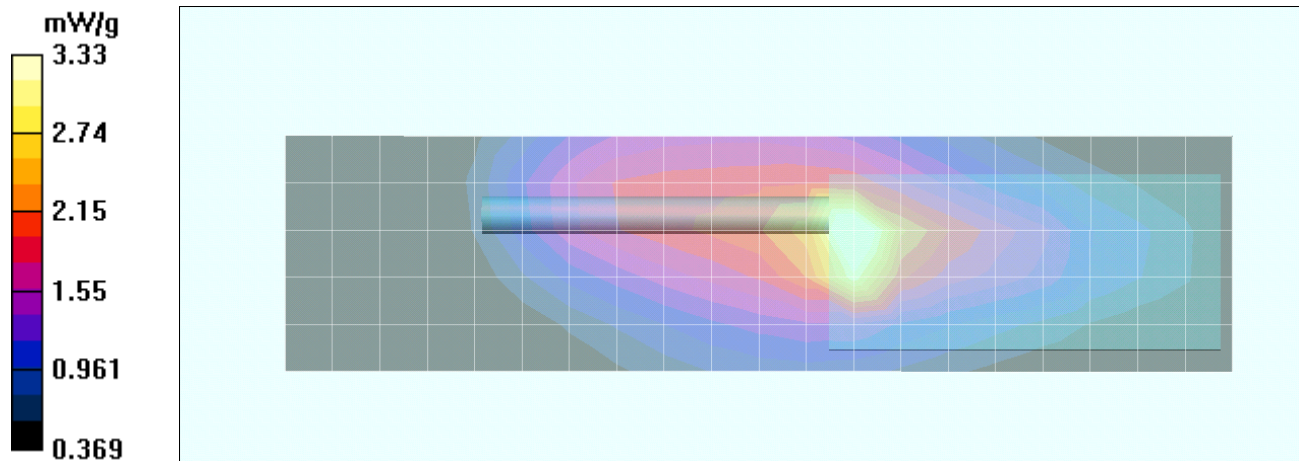
Reference Value = 57.8 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 8.10 W/kg

SAR(1 g) = 3.18 mW/g; SAR(10 g) = 1.86 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.33 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver		Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz	
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B6

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 144 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 144 \text{ MHz}$; $\sigma = 0.744 \text{ mho/m}$; $\epsilon_r = 64.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 4.05 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

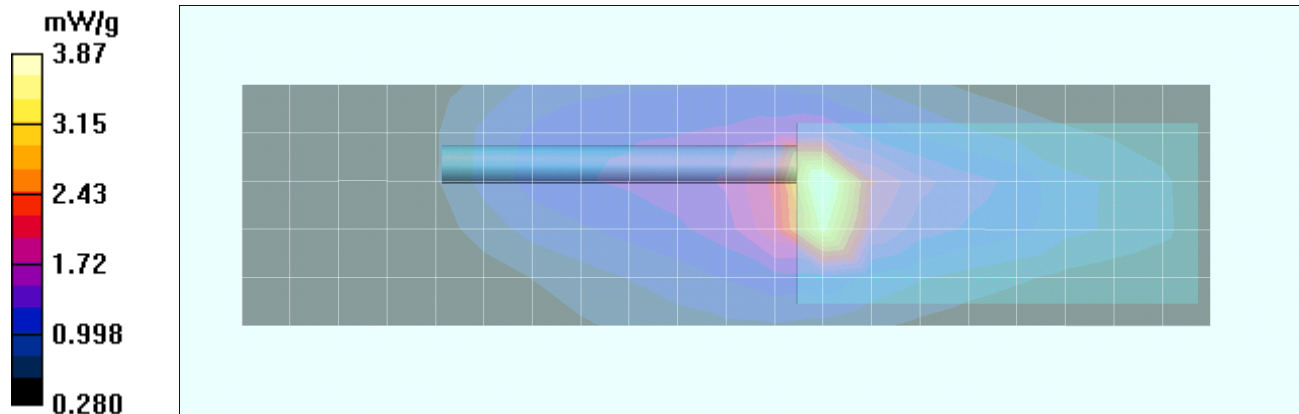
Reference Value = 61.0 V/m; Power Drift = -0.336 dB

Peak SAR (extrapolated) = 13.6 W/kg

SAR(1 g) = 3.72 mW/g; SAR(10 g) = 1.83 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.87 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<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 B7

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.75 \text{ mho/m}$; $\epsilon_r = 64.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 7.76 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

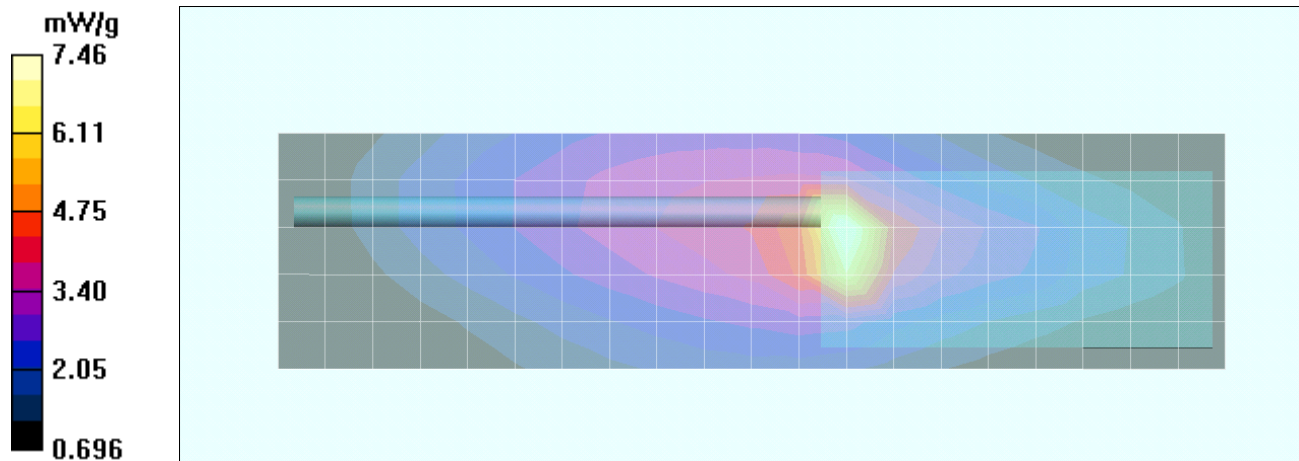
Reference Value = 87.8 V/m; Power Drift = -0.346 dB

Peak SAR (extrapolated) = 20.9 W/kg

SAR(1 g) = 7.04 mW/g; SAR(10 g) = 3.82 mW/g

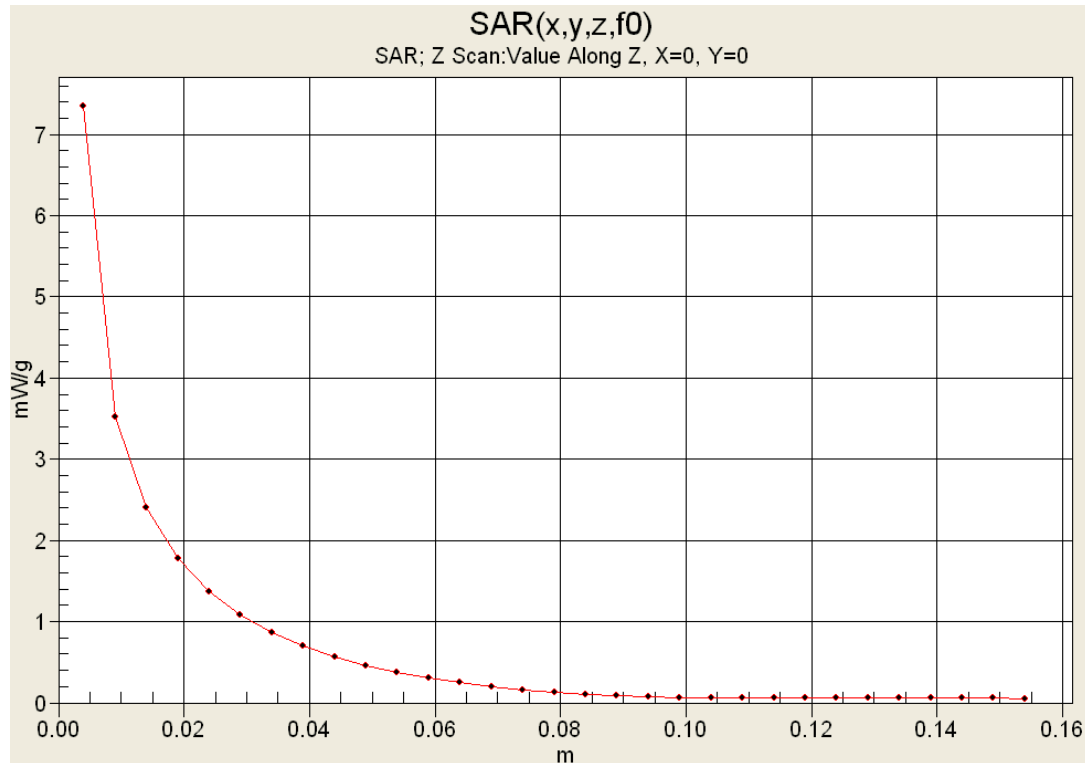
Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 7.46 mW/g

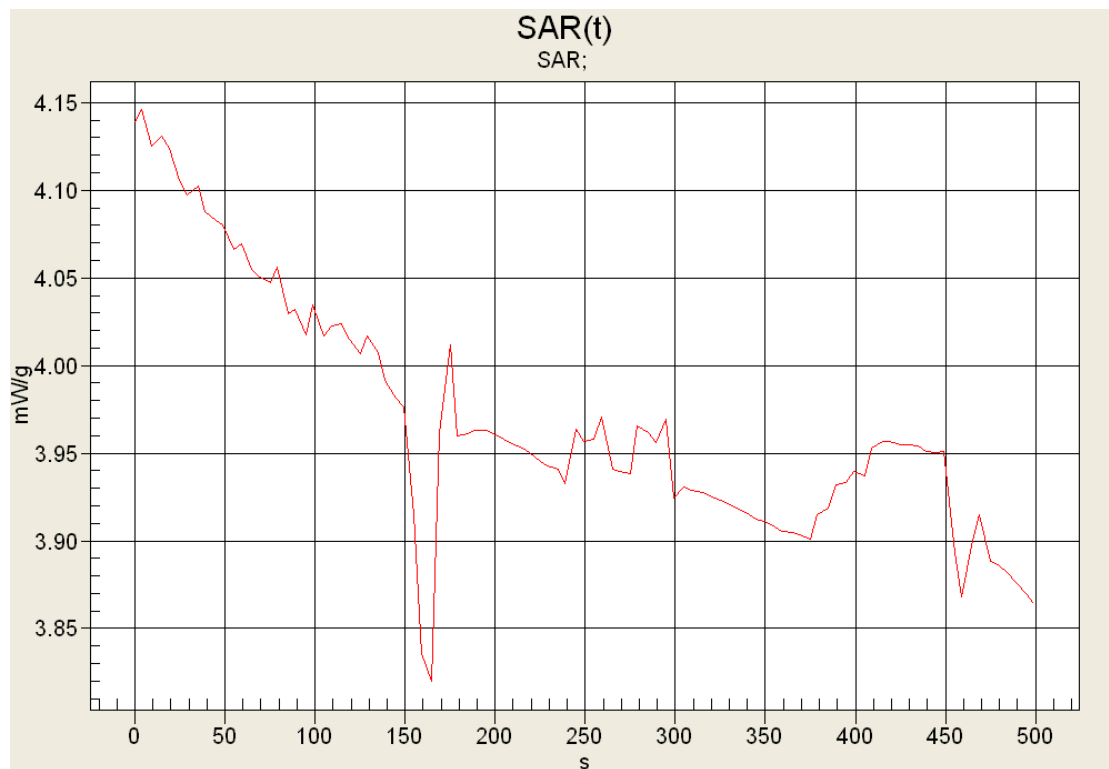


Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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Z-Axis Scan



SAR-versus-Time



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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B8

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.752 \text{ mho/m}$; $\epsilon_r = 63.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 5.60 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

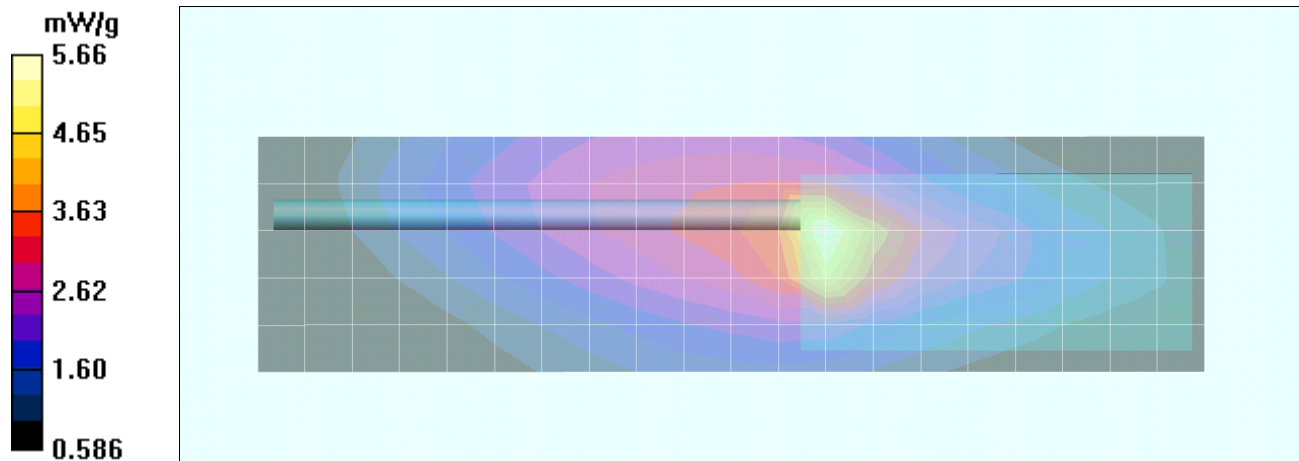
Reference Value = 73.4 V/m; Power Drift = -0.212 dB

Peak SAR (extrapolated) = 14.7 W/kg

SAR(1 g) = 5.39 mW/g; SAR(10 g) = 3.05 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 5.66 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B9

Date Tested: 08/23/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 23.0C; Fluid Temp: 23.0C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: Kenwood VHF

Frequency: 144 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 144 \text{ MHz}$; $\sigma = 0.744 \text{ mho/m}$; $\epsilon_r = 64.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.38 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

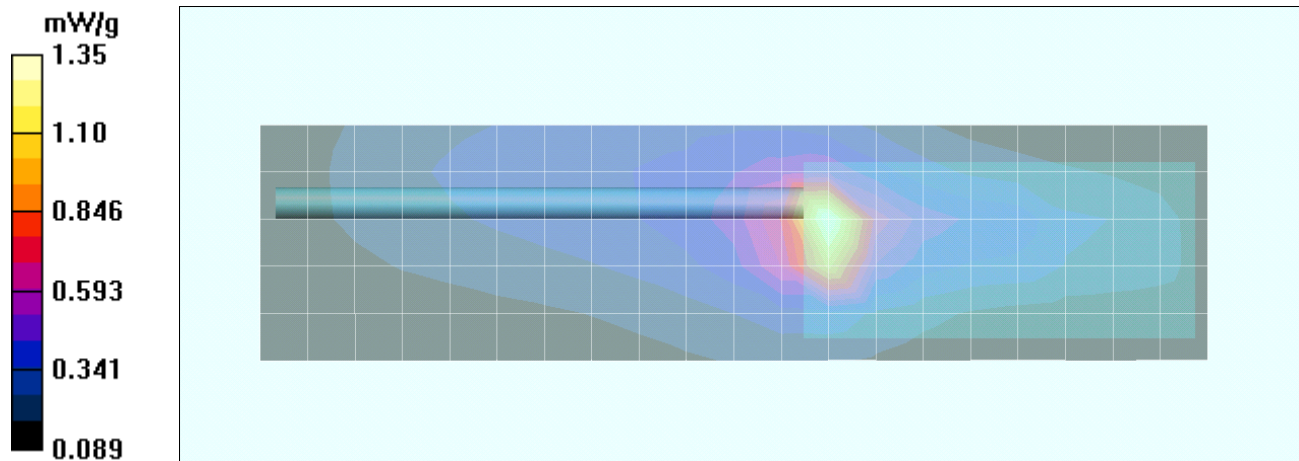
Reference Value = 35.5 V/m; Power Drift = -0.381 dB

Peak SAR (extrapolated) = 4.96 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.630 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.35 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<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 B10

Date Tested: 10/03/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 22.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.766 \text{ mho/m}$; $\epsilon_r = 63.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.32 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

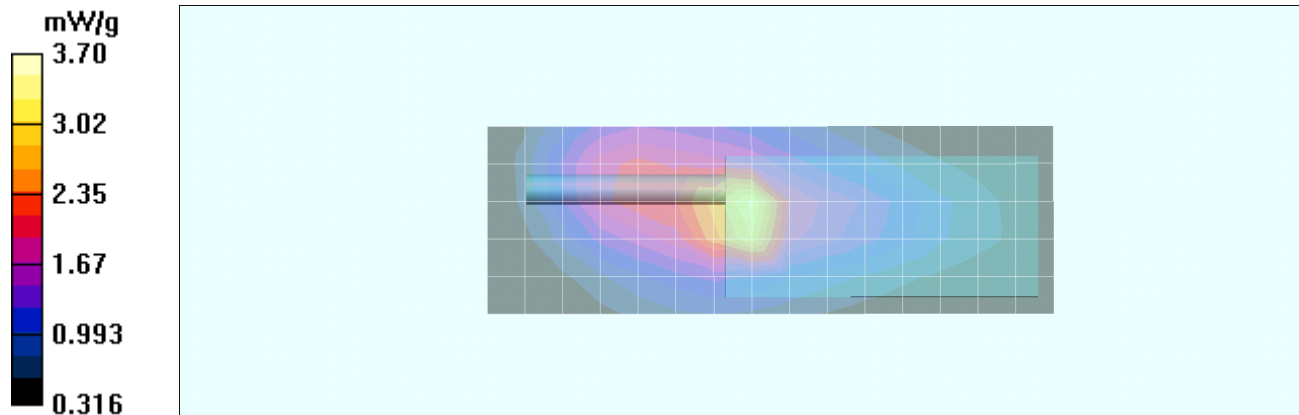
Reference Value = 65.0 V/m; Power Drift = 0.211 dB

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 3.65 mW/g; SAR(10 g) = 1.97 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.70 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B11

Date Tested: 10/03/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 22.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.772 \text{ mho/m}$; $\epsilon_r = 63.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.872 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

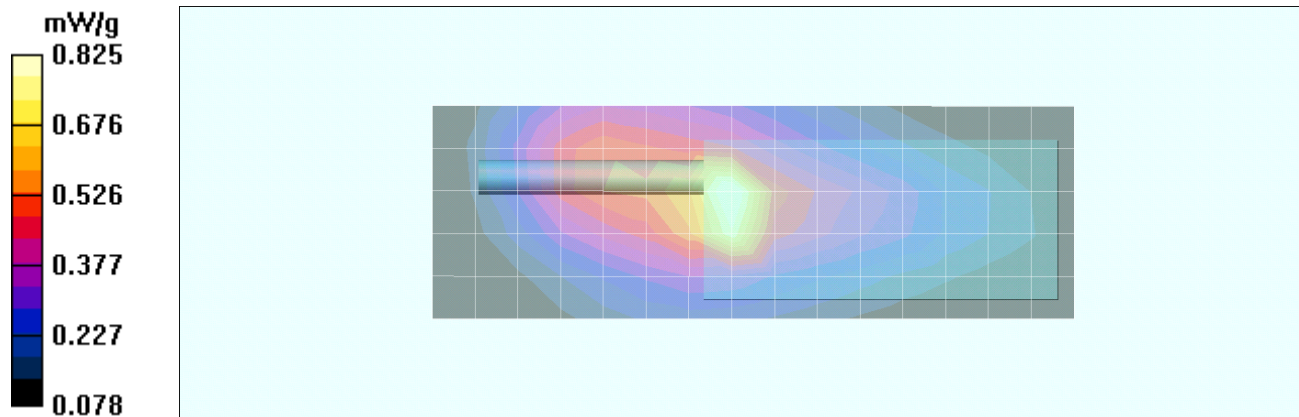
Reference Value = 30.6 V/m; Power Drift = -0.367 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 0.788 mW/g; SAR(10 g) = 0.443 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.825 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<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 B12

Date Tested: 10/03/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 22.0C; Fluid Temp: 22.0C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 144 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 144 \text{ MHz}$; $\sigma = 0.766 \text{ mho/m}$; $\epsilon_r = 63.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x16x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.62 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

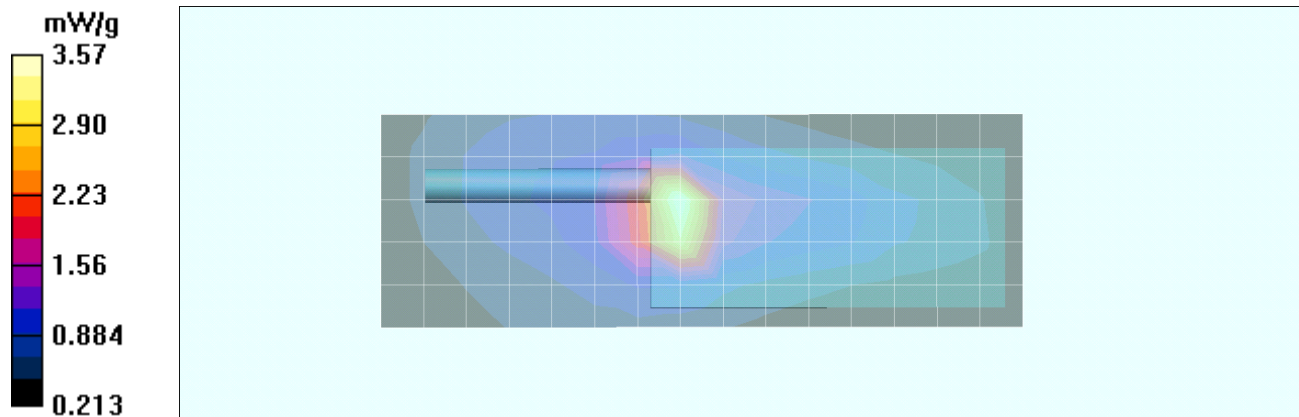
Reference Value = 63.8 V/m; Power Drift = -0.654 dB

Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 3.73 mW/g; SAR(10 g) = 1.68 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

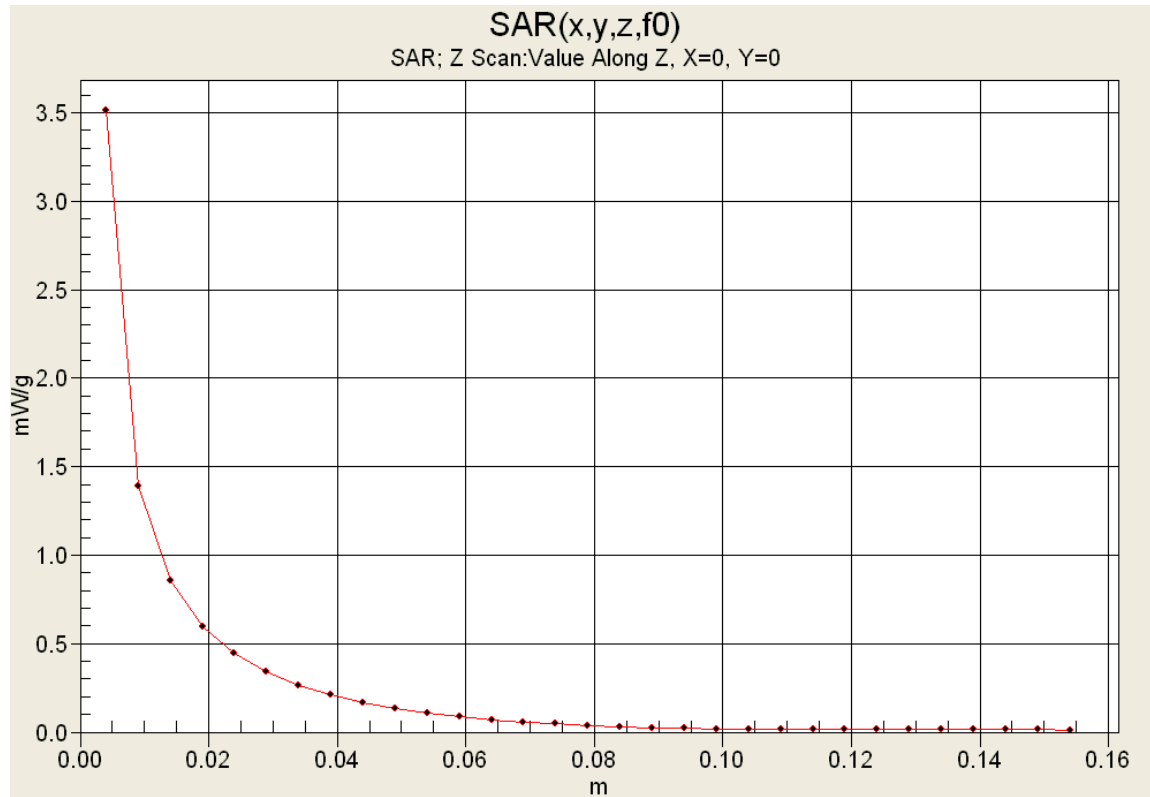
Maximum value of SAR (measured) = 3.57 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Z-Axis Scan



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot B13

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.776 \text{ mho/m}$; $\epsilon_r = 62.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 5.87 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

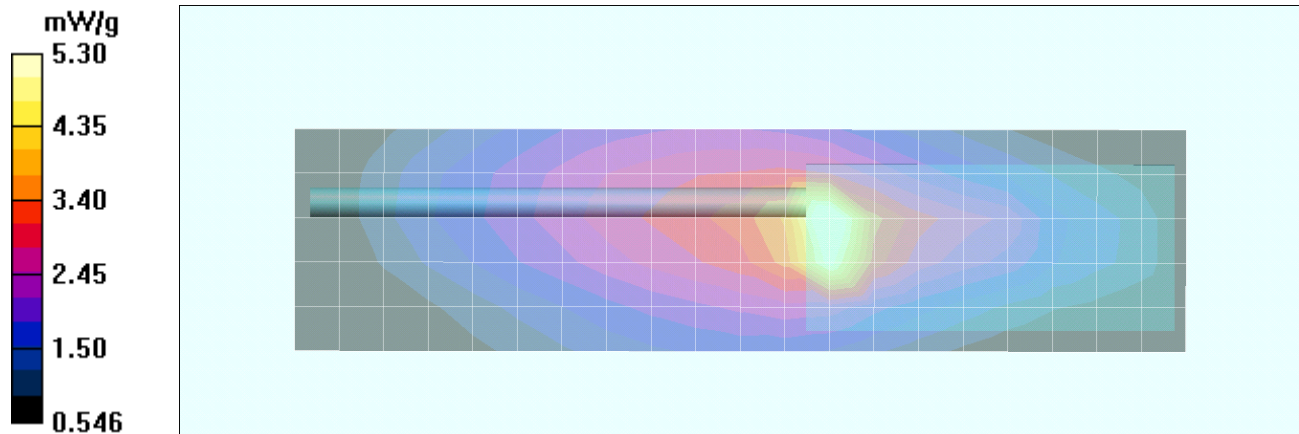
Reference Value = 78.0 V/m; Power Drift = -0.696 dB

Peak SAR (extrapolated) = 13.3 W/kg

SAR(1 g) = 4.95 mW/g; SAR(10 g) = 2.83 mW/g

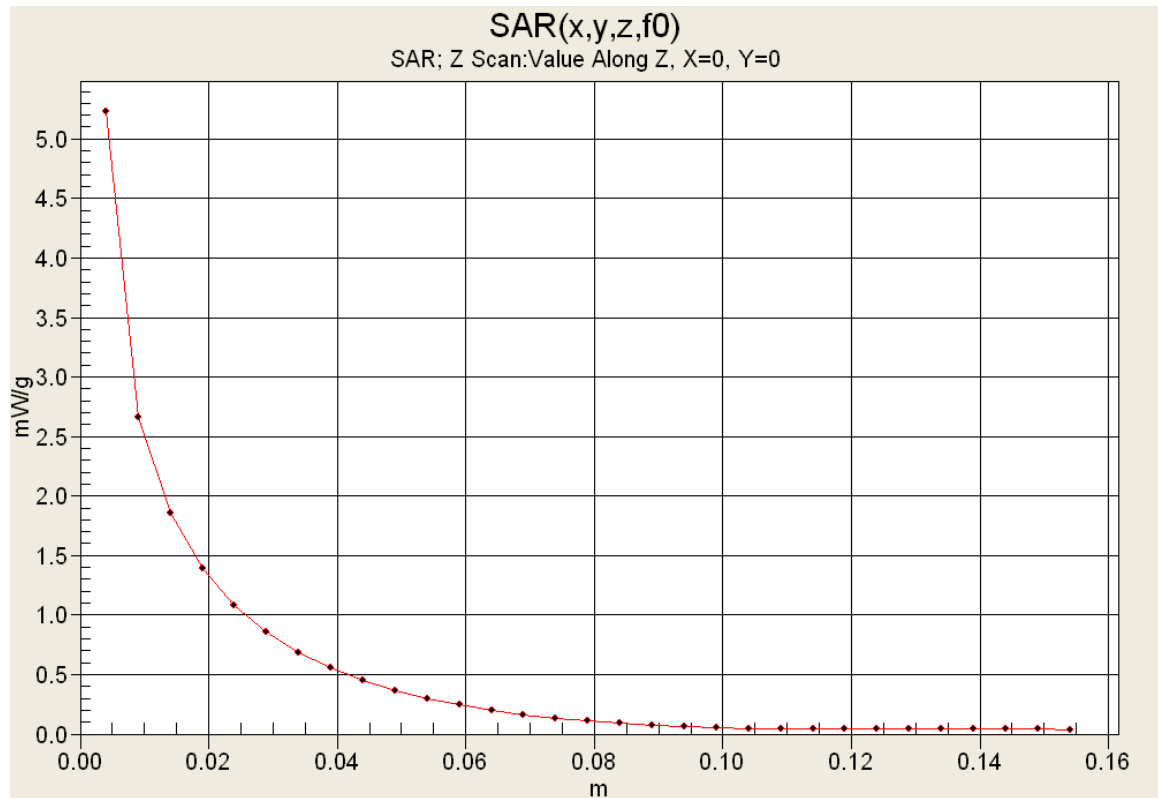
Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 5.30 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver		Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz	
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Z-Axis Scan



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	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot A1

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.776 \text{ mho/m}$; $\epsilon_r = 62.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.78 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

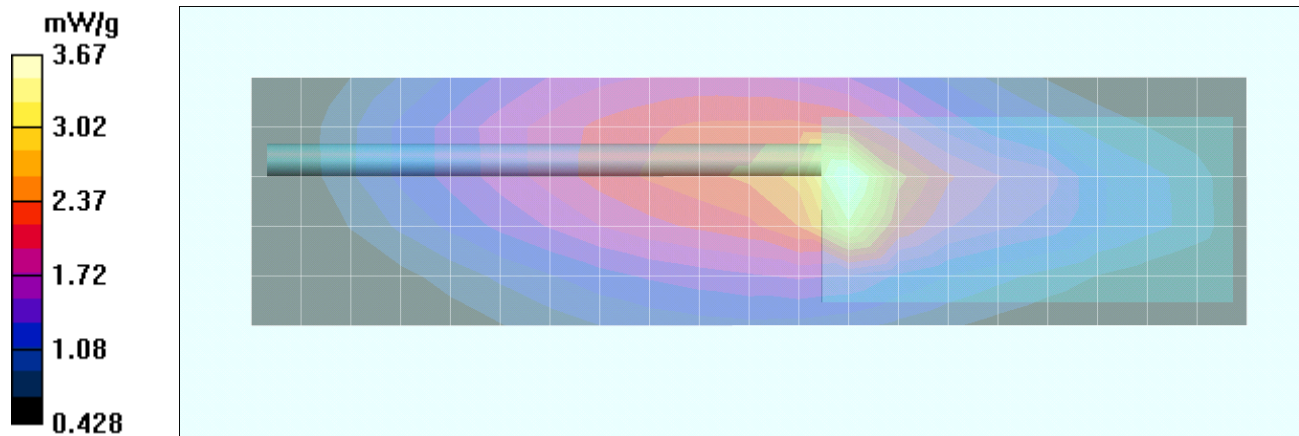
Reference Value = 62.8 V/m; Power Drift = -0.346 dB

Peak SAR (extrapolated) = 9.15 W/kg

SAR(1 g) = 3.59 mW/g; SAR(10 g) = 2.12 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.67 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1193-S90V	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> Nov. 30, 2012	<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 A2

Date Tested: 08/27/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.776 \text{ mho/m}$; $\epsilon_r = 62.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.63 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

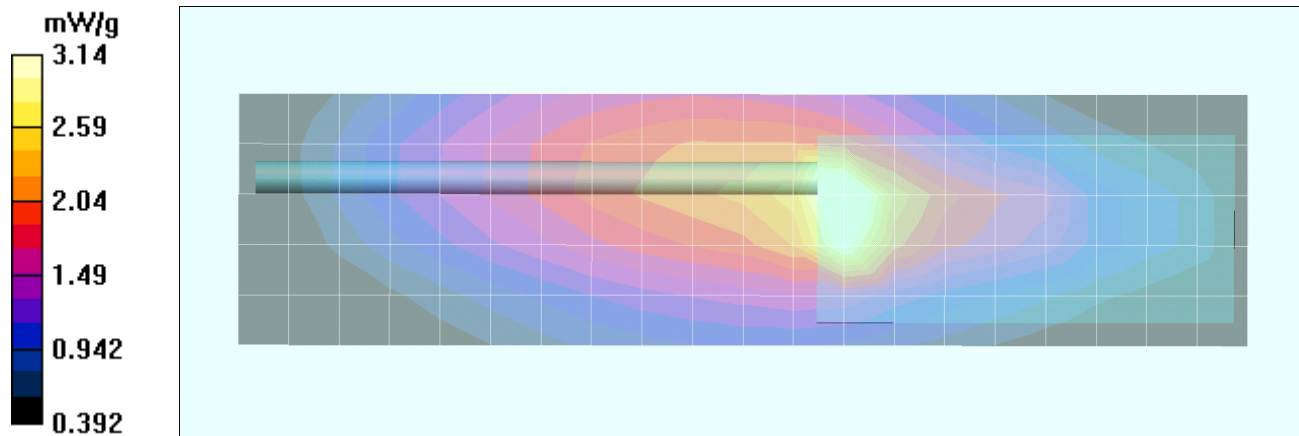
Reference Value = 59.3 V/m; Power Drift = -0.363 dB

Peak SAR (extrapolated) = 6.96 W/kg

SAR(1 g) = 2.98 mW/g; SAR(10 g) = 1.83 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.14 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1193-S90V	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot A3

Date Tested: 08/28/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.776 \text{ mho/m}$; $\epsilon_r = 62.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 5.84 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

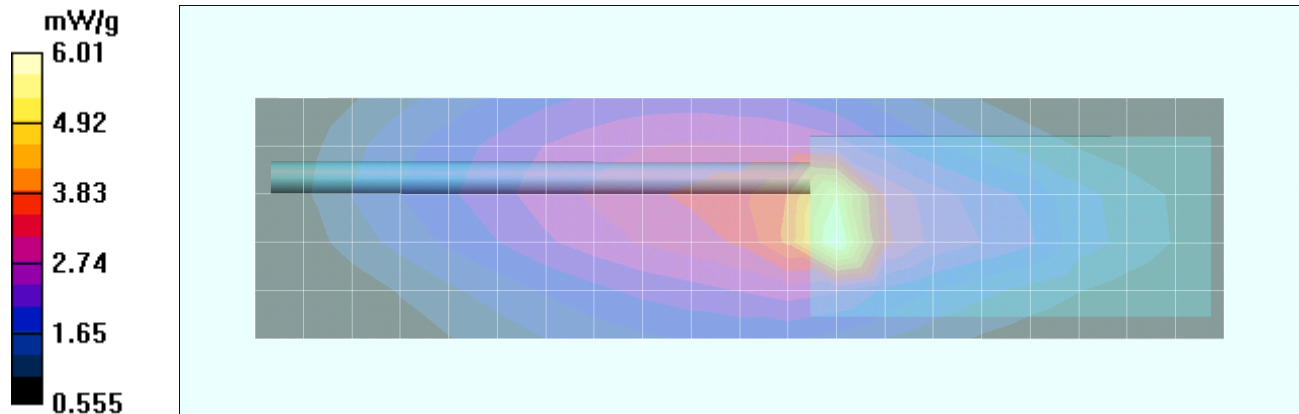
Reference Value = 84.8 V/m; Power Drift = -0.511 dB

Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 5.75 mW/g; SAR(10 g) = 3.12 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

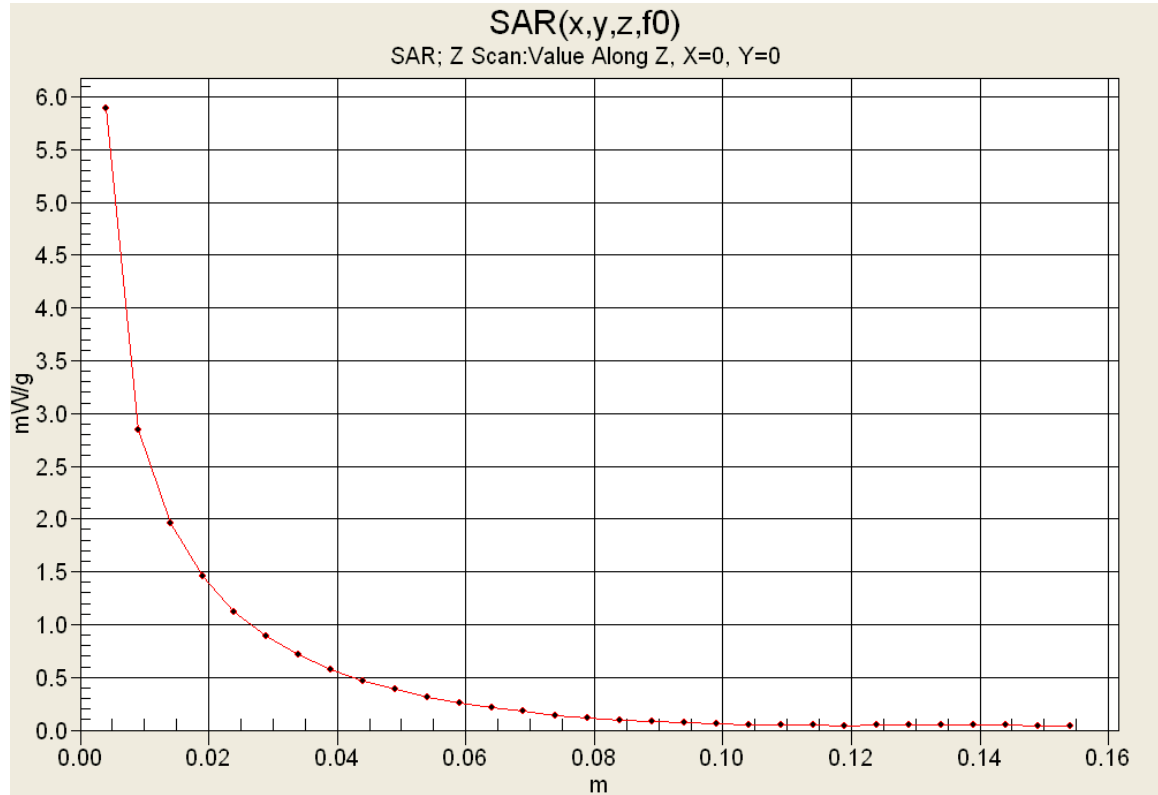
Maximum value of SAR (measured) = 6.01 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1193-S90V	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

Z-Axis Scan



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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	<u>Date(s) of Evaluation</u> Aug 23-28, Oct3, 2012	<u>Test Report Serial No.</u> 081612ALH-T1193-S90V	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> Nov. 30, 2012	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Body SAR Plot A4

Date Tested: 08/28/2012

DUT: Kenwood VHF TK-2402-P; Type: Portable FM VHF PTT Radio Transceiver; Serial: 0419

Program Notes: Ambient Temp: 24.0C; Fluid Temp: 23.8C; Barometric Pressure: 101.1 kPa; Humidity: 32%

Communication System: Kenwood VHF

Frequency: 156.4 MHz; Duty Cycle: 1:1

Medium: M150 Medium parameters used (interpolated): $f = 156.4 \text{ MHz}$; $\sigma = 0.776 \text{ mho/m}$; $\epsilon_r = 62.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(8.6, 8.6, 8.6); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Side Planar; Type: Plexiglass; Serial: 161
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Area Scan (6x21x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 6.98 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

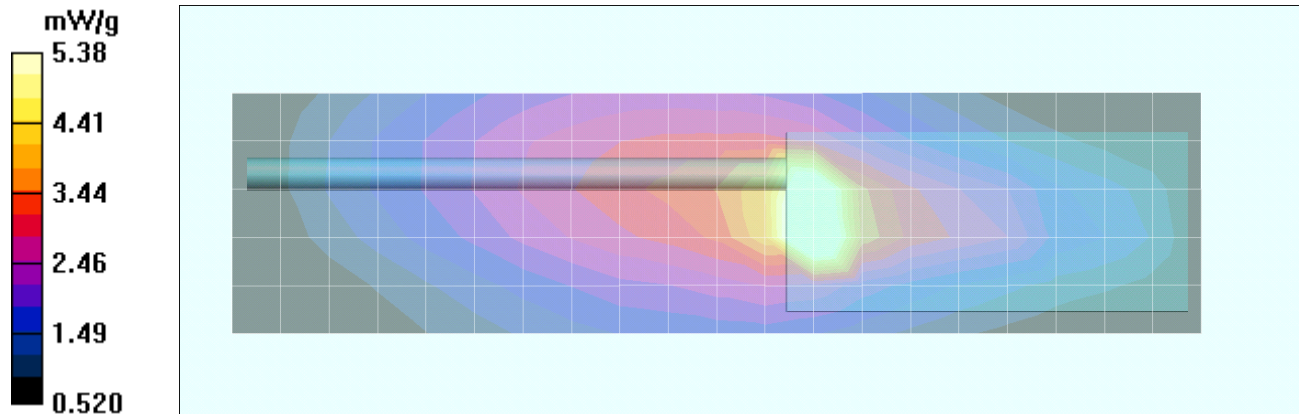
Reference Value = 80.5 V/m; Power Drift = -0.747 dB

Peak SAR (extrapolated) = 14.7 W/kg

SAR(1 g) = 5.23 mW/g; SAR(10 g) = 2.9 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 5.38 mW/g



Applicant:	Kenwood USA Corporation	FCC ID:	ALH434900	IC:	282D-434900	KENWOOD
DUT Type:	Portable FM VHF PTT Radio Transceiver	Model(s):	TK-2402V-K-P	138.0 - 173.4 MHz		
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