

	<u>Dates of Evaluation (K3)</u>	<u>Test Report Serial No.</u>	<u>Test Report Revision No.</u>	 
	Jan. 4,6,26-28,31, 2011	121510ALH-T1070-S90U	Rev. 1.3 (4th Release)	
<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #36 (A36)

Date Tested: 04/04/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K124**  
**Audio Accessory Category 1 (Headset); Type: Noise Reduction Headset (Over-the-Head) (P/N: KHS-10-OH)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 21.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.928 \text{ mho/m}$ ;  $\epsilon_r = 57.9$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 10.5 mW/g

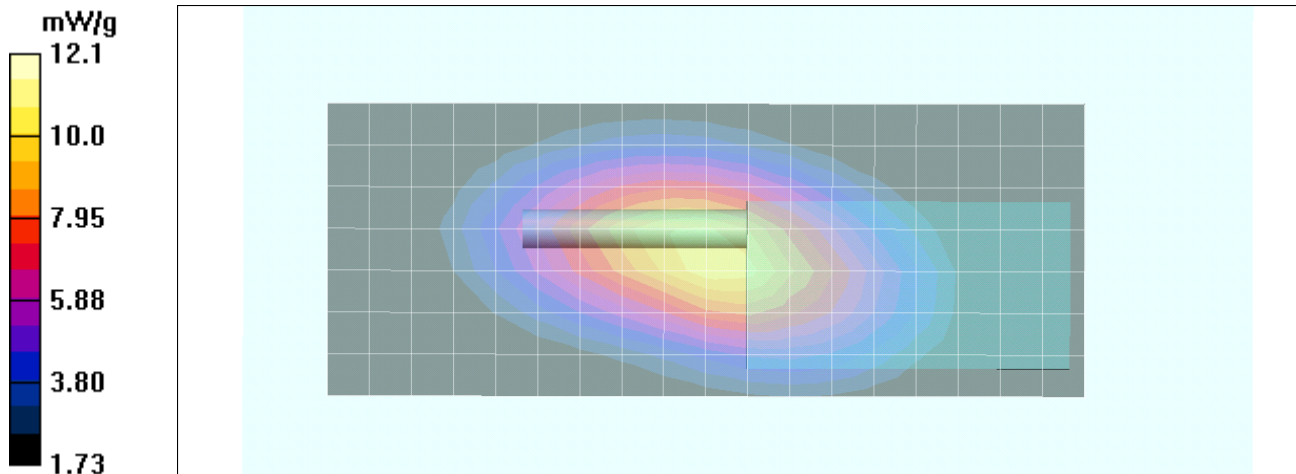
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 112.1 V/m; Power Drift = -0.453 dB

Peak SAR (extrapolated) = 16.7 W/kg

**SAR(1 g) = 11.5 mW/g; SAR(10 g) = 8.22 mW/g**

Maximum value of SAR (measured) = 12.1 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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	<u>Dates of Evaluation (K3)</u>	<u>Test Report Serial No.</u>	<u>Test Report Revision No.</u>	
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #37 (A37)

Date Tested: 04/04/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K2; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K218**  
**Audio Accessory Category 1 (Headset); Type: Noise Reduction Headset (Over-the-Head) (P/N: KHS-10-OH)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 21.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.928 \text{ mho/m}$ ;  $\epsilon_r = 57.9$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.2 mW/g

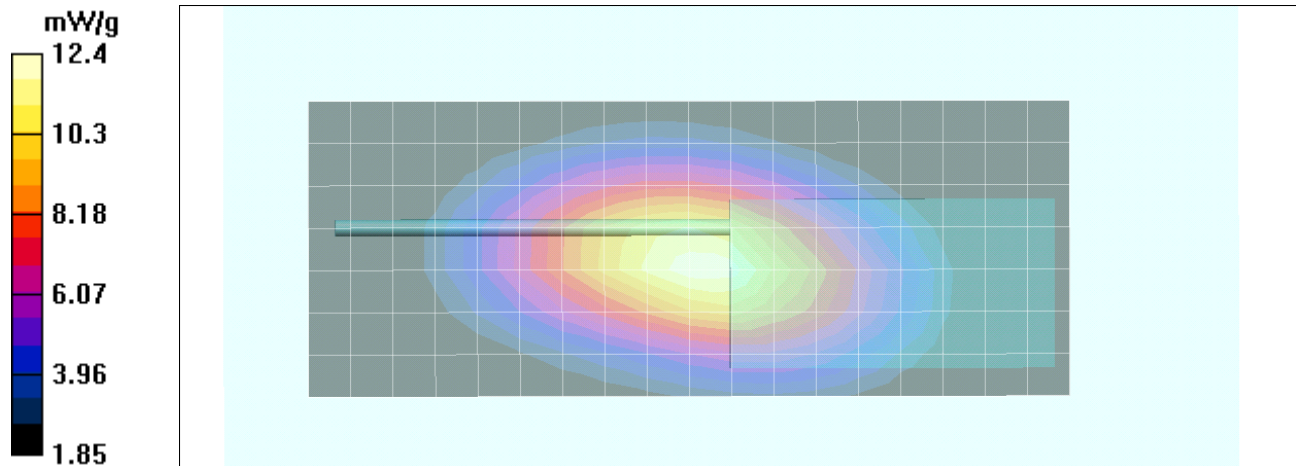
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 115.7 V/m; Power Drift = -0.535 dB


Peak SAR (extrapolated) = 17.1 W/kg

**SAR(1 g) = 11.8 mW/g; SAR(10 g) = 8.43 mW/g**

Maximum value of SAR (measured) = 12.4 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #38 (A38)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 498.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Noise Reduction Headset (Over-the-Head) (P/N: KHS-10-OH)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 498 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 498 \text{ MHz}$ ;  $\sigma = 0.978 \text{ mho/m}$ ;  $\epsilon_r = 59.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.2 mW/g

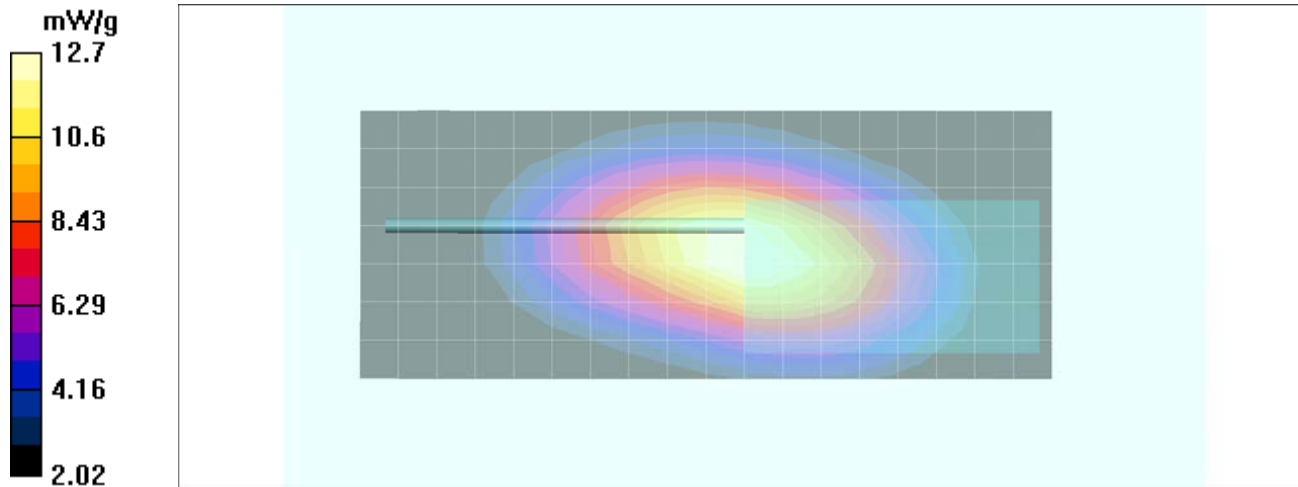
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 113.1 V/m; Power Drift = -0.287 dB

Peak SAR (extrapolated) = 17.3 W/kg

**SAR(1 g) = 12.1 mW/g; SAR(10 g) = 8.75 mW/g**

Maximum value of SAR (measured) = 12.7 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #39 (A39)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 512.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Noise Reduction Headset (Over-the-Head) (P/N: KHS-10-OH)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 512 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 58.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.3 mW/g

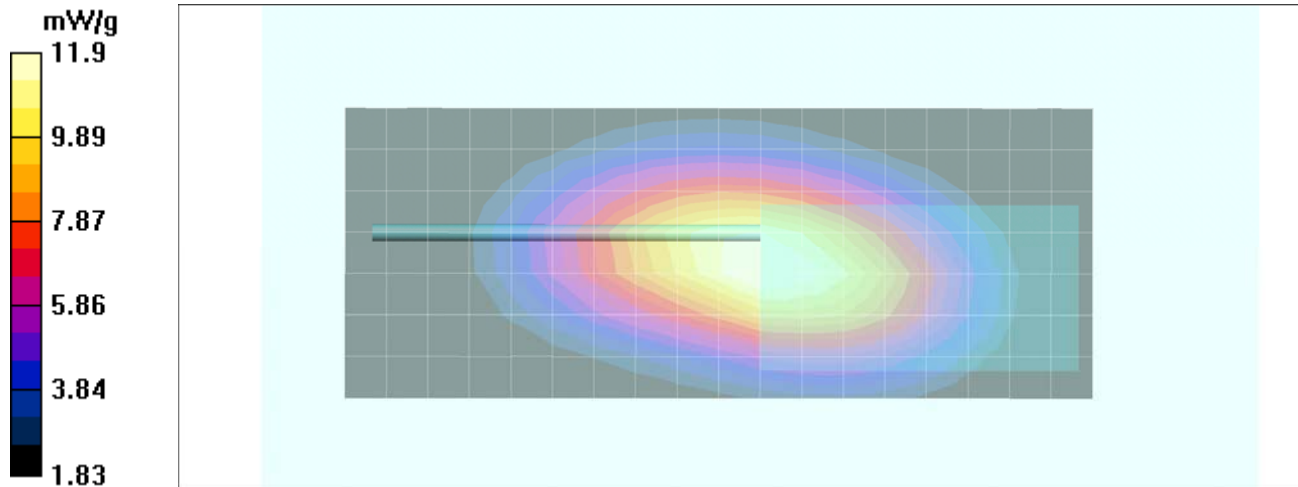
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 107.5 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 16.3 W/kg

**SAR(1 g) = 11.4 mW/g; SAR(10 g) = 8.19 mW/g**

Maximum value of SAR (measured) = 11.9 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #40 (A40)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 470.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Lightweight Headset – no VOX or PTT controls (P/N: KHS-21)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 470 \text{ MHz}$ ;  $\sigma = 0.95 \text{ mho/m}$ ;  $\epsilon_r = 58.6$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 11.8 mW/g

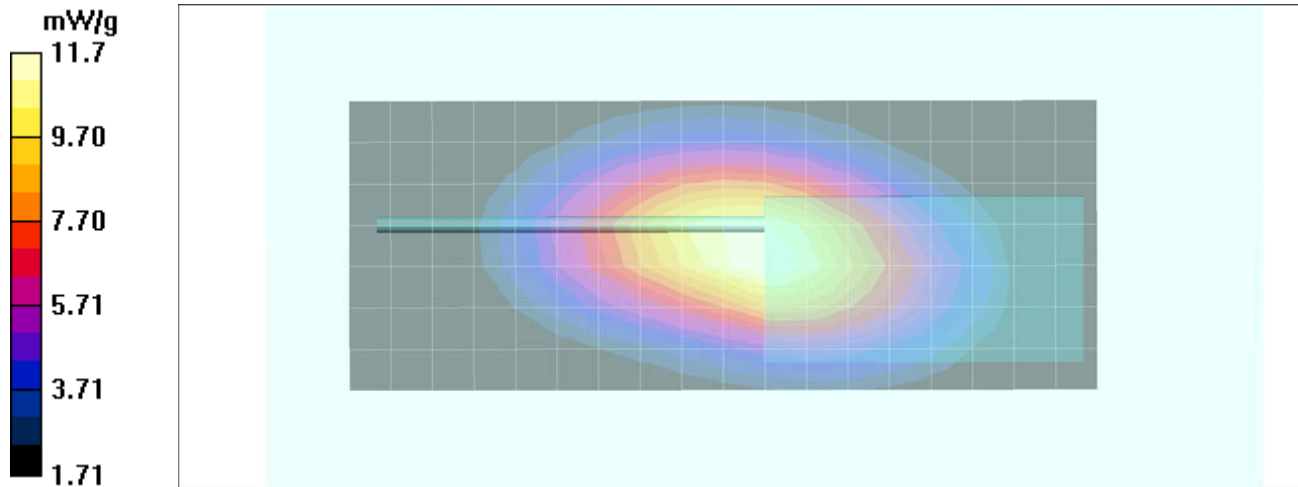
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 104.3 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 16.3 W/kg

**SAR(1 g) = 11.3 mW/g; SAR(10 g) = 8.06 mW/g**

Maximum value of SAR (measured) = 11.7 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #41 (A41)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Lightweight Headset – no VOX or PTT controls (P/N: KHS-21)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.964 \text{ mho/m}$ ;  $\epsilon_r = 59.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 14.2 mW/g

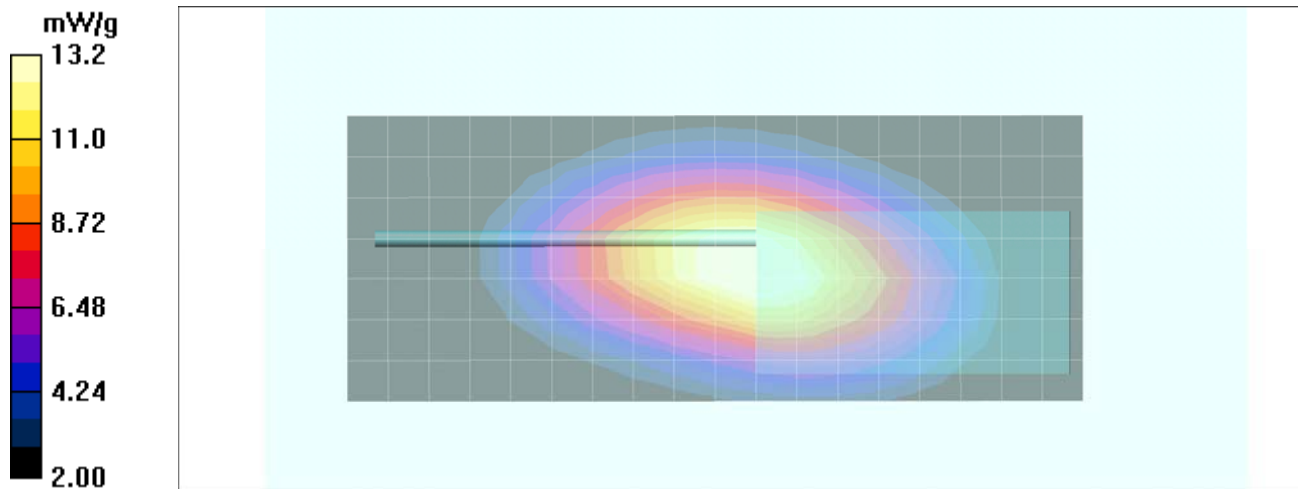
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 114.8 V/m; Power Drift = -0.576 dB

Peak SAR (extrapolated) = 18.4 W/kg

**SAR(1 g) = 12.7 mW/g; SAR(10 g) = 9.08 mW/g**

Maximum value of SAR (measured) = 13.2 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #42 (A42)

Date Tested: 04/05/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K124**  
**Audio Accessory Category 1 (Headset); Type: Lightweight Headset – no VOX or PTT controls (P/N: KHS-21)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 22.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 28%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.938 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.0 mW/g

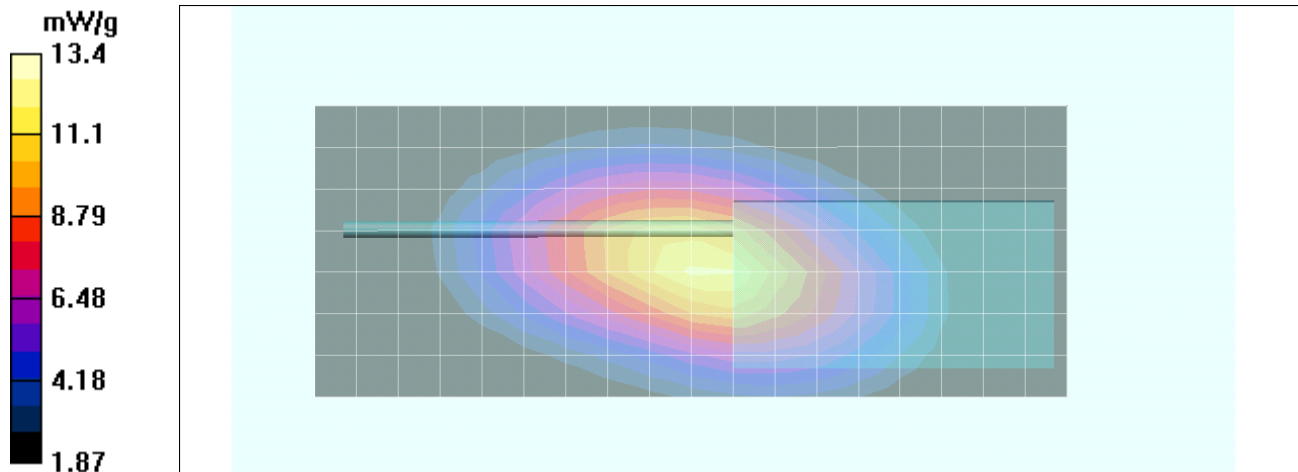
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 118.3 V/m; Power Drift = -0.432 dB

Peak SAR (extrapolated) = 18.5 W/kg

**SAR(1 g) = 12.7 mW/g; SAR(10 g) = 9.06 mW/g**

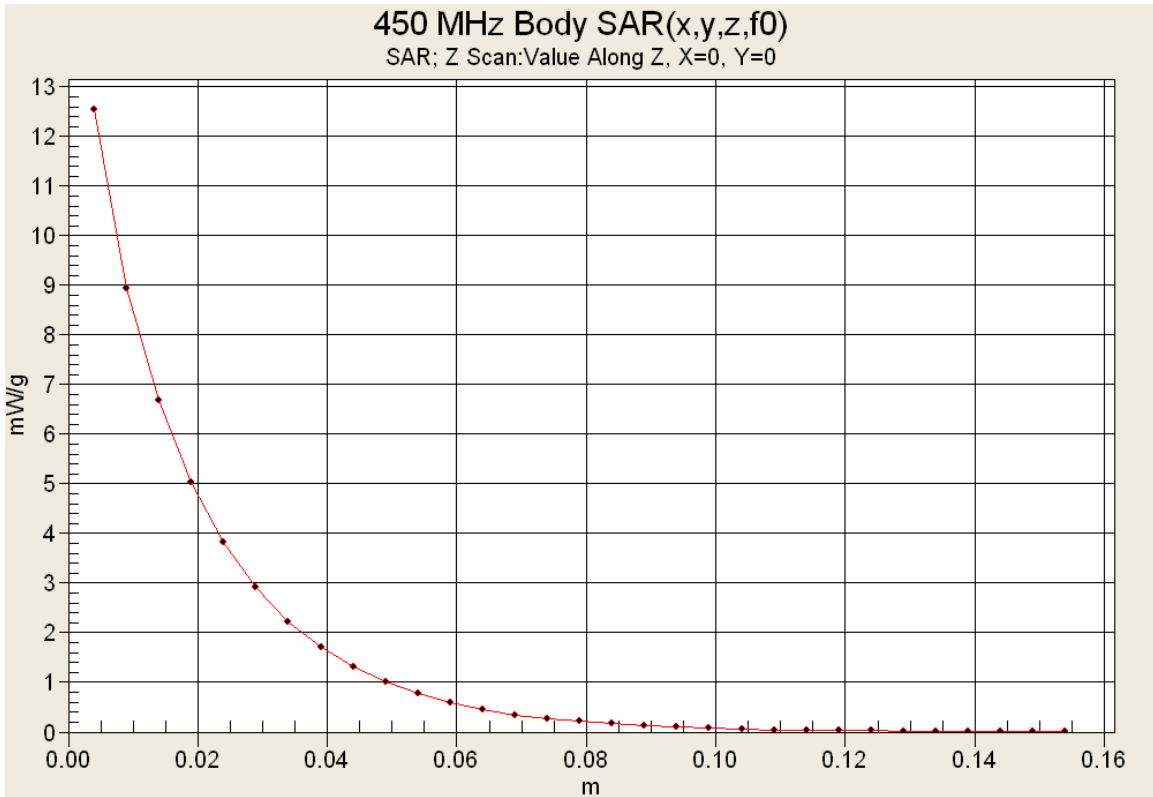
Maximum value of SAR (measured) = 13.4 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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	<u>Test Report Issue Date</u> April 14, 2011	<u>Dates of Evaluation (K/K2)</u> March 30 - April 7, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	

## Z-Axis Scan



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #43 (A43)

Date Tested: 04/04/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K2; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K218**  
**Audio Accessory Category 1 (Headset); Type: Lightweight Headset – no VOX or PTT controls (P/N: KHS-21)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 21.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.928 \text{ mho/m}$ ;  $\epsilon_r = 57.9$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 11.5 mW/g

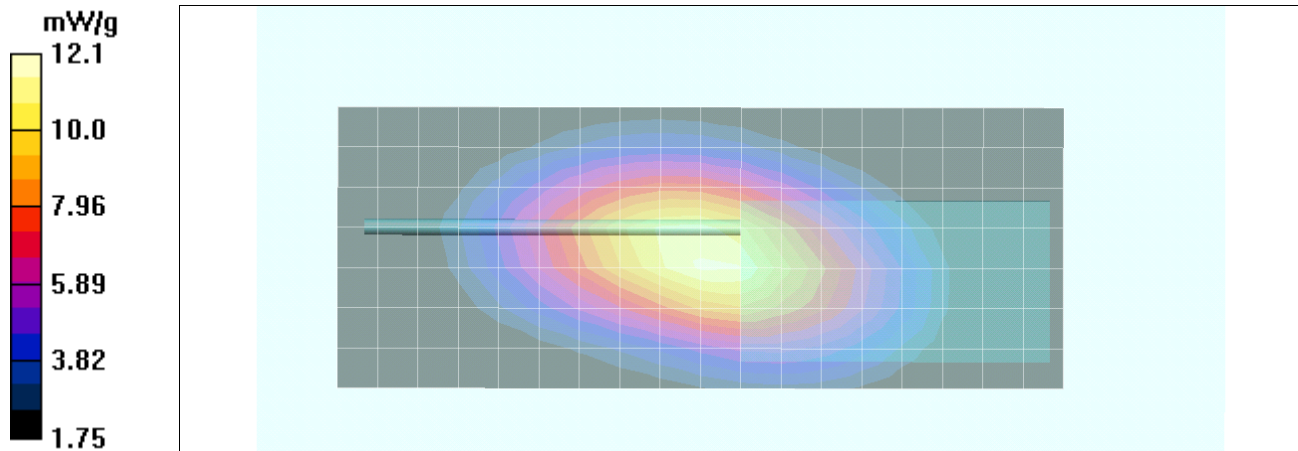
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 112.9 V/m; Power Drift = -0.538 dB

Peak SAR (extrapolated) = 16.7 W/kg

**SAR(1 g) = 11.5 mW/g; SAR(10 g) = 8.23 mW/g**

Maximum value of SAR (measured) = 12.1 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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	<u>Dates of Evaluation (K3)</u>	<u>Test Report Serial No.</u>	<u>Test Report Revision No.</u>	 Test Lab Certificate No. 2470.01
	Jan. 4,6,26-28,31, 2011	121510ALH-T1070-S90U	Rev. 1.3 (4th Release)	
<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #44 (A44)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 498.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Lightweight Headset – no VOX or PTT controls (P/N: KHS-21)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 498 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 498 \text{ MHz}$ ;  $\sigma = 0.978 \text{ mho/m}$ ;  $\epsilon_r = 59.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.9 mW/g

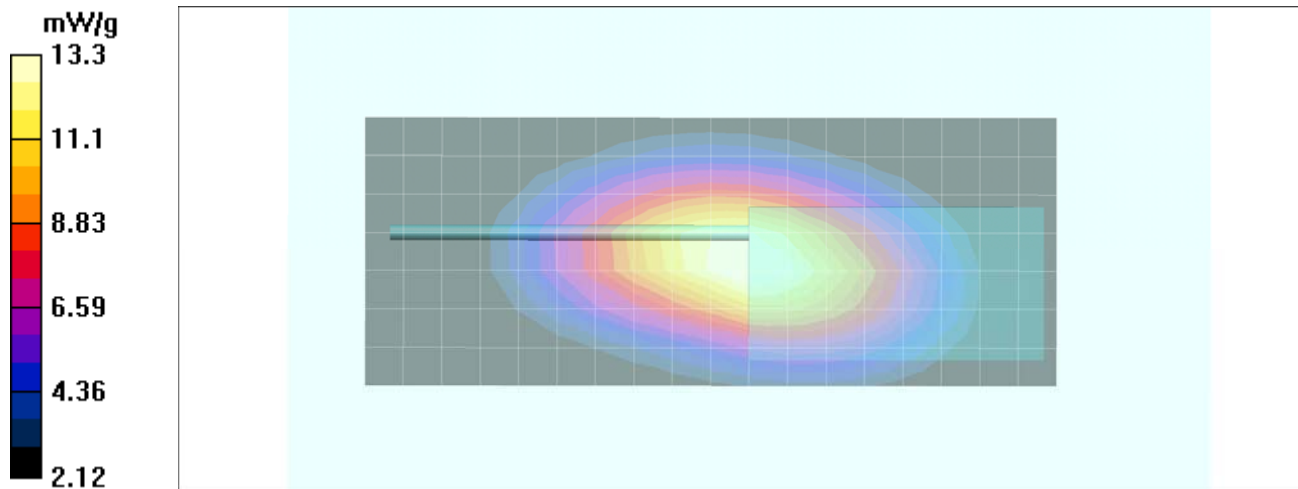
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 117.0 V/m; Power Drift = -0.325 dB

Peak SAR (extrapolated) = 18.2 W/kg

**SAR(1 g) = 12.7 mW/g; SAR(10 g) = 9.2 mW/g**

Maximum value of SAR (measured) = 13.3 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #45 (A45)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 512.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Lightweight Headset – no VOX or PTT controls (P/N: KHS-21)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 512 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 58.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.7 mW/g

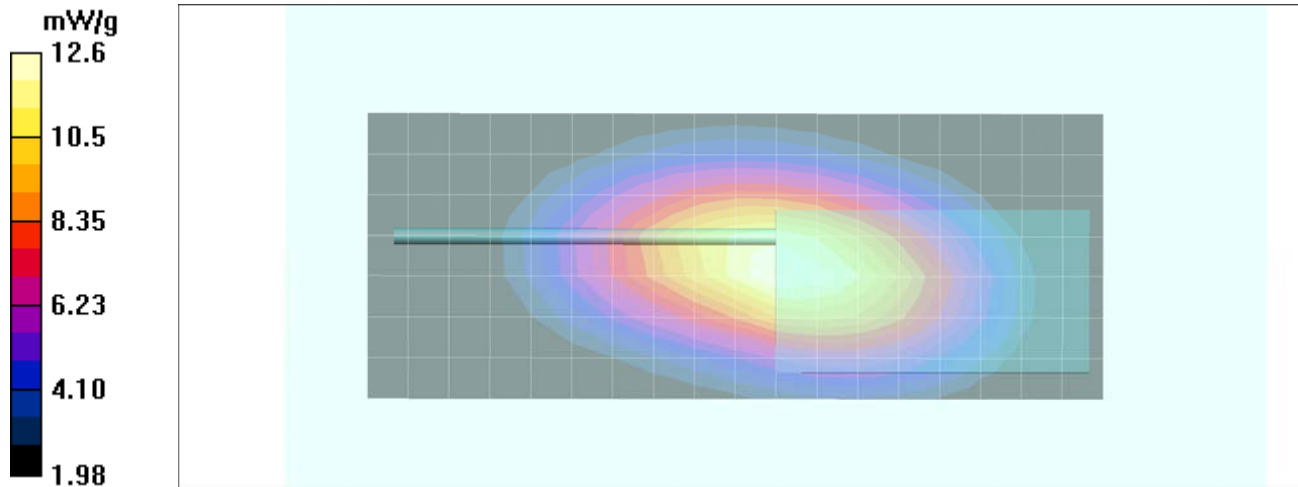
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 111.9 V/m; Power Drift = -0.208 dB

Peak SAR (extrapolated) = 17.3 W/kg

**SAR(1 g) = 12.1 mW/g; SAR(10 g) = 8.69 mW/g**

Maximum value of SAR (measured) = 12.6 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #46 (A46)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 470.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Behind-the-Head Headset w/ Boom Mic & PTT (P/N: KHS-22)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 470 \text{ MHz}$ ;  $\sigma = 0.95 \text{ mho/m}$ ;  $\epsilon_r = 58.6$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.6 mW/g

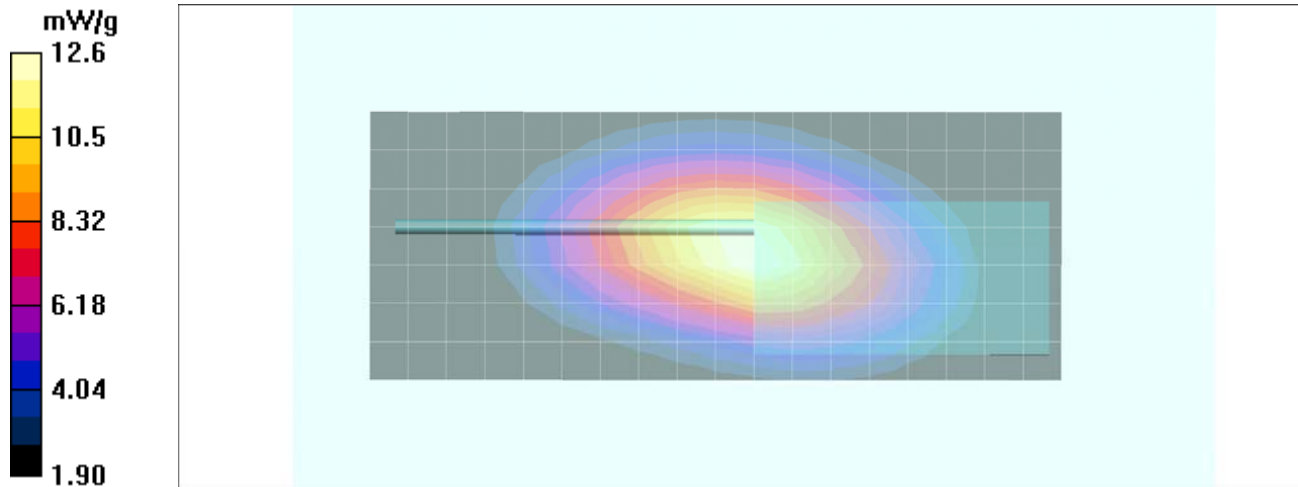
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 109.9 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 17.4 W/kg

**SAR(1 g) = 12 mW/g; SAR(10 g) = 8.62 mW/g**

Maximum value of SAR (measured) = 12.6 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #47 (A47)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Behind-the-Head Headset w/ Boom Mic & PTT (P/N: KHS-22)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.964 \text{ mho/m}$ ;  $\epsilon_r = 59.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.3 mW/g

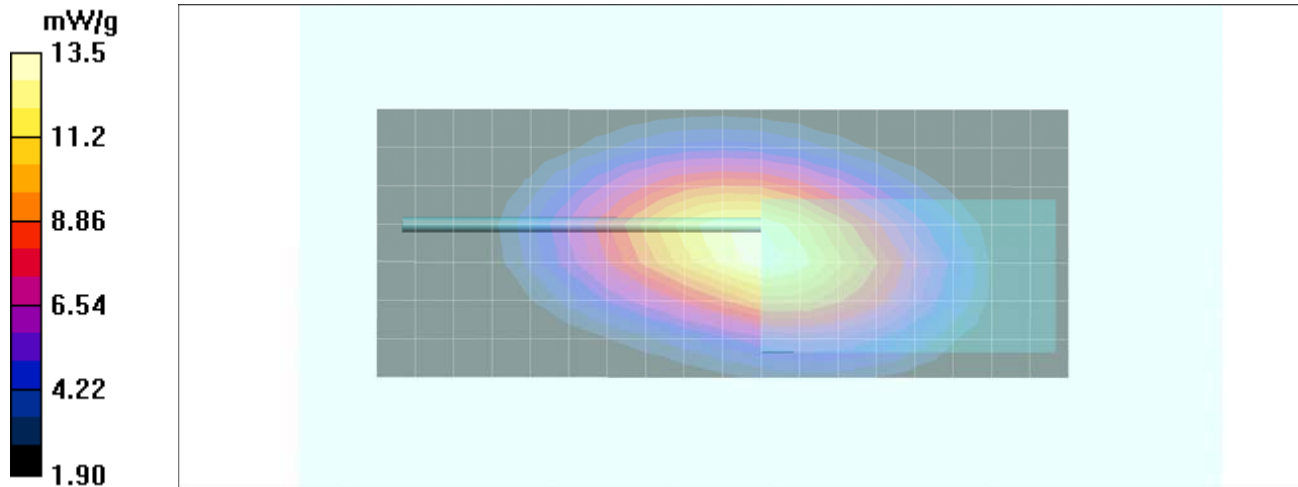
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 121.4 V/m; Power Drift = -0.607 dB

Peak SAR (extrapolated) = 18.8 W/kg

**SAR(1 g) = 13 mW/g; SAR(10 g) = 9.31 mW/g**

Maximum value of SAR (measured) = 13.5 mW/g

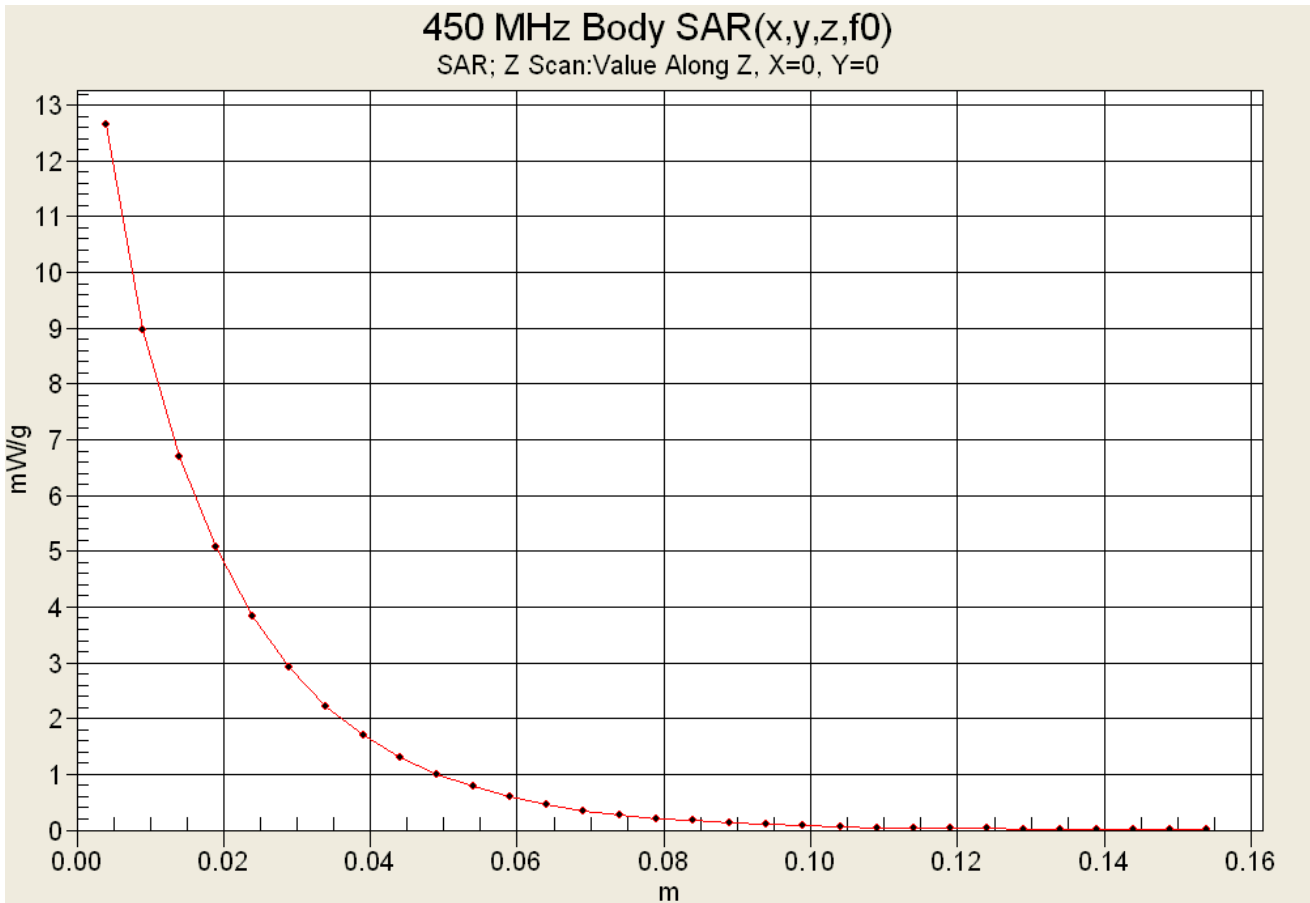


<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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	<u>Test Report Issue Date</u> April 14, 2011	<u>Dates of Evaluation (K/K2)</u> March 30 - April 7, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	

## Z-Axis Scan



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #48 (A48)

Date Tested: 04/05/2011

### Body-worn SAR - KRA-27M2 “Antenna D” - KNB-56N 1400mAh Ni-MH “Battery c” – 484.0 MHz

**DUT: Kenwood NX-320-K; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K124**  
**Audio Accessory Category 1 (Headset); Type: Behind-the-Head Headset w/ Boom Mic & PTT (P/N: KHS-22)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 22.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 28%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.938 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.3 mW/g

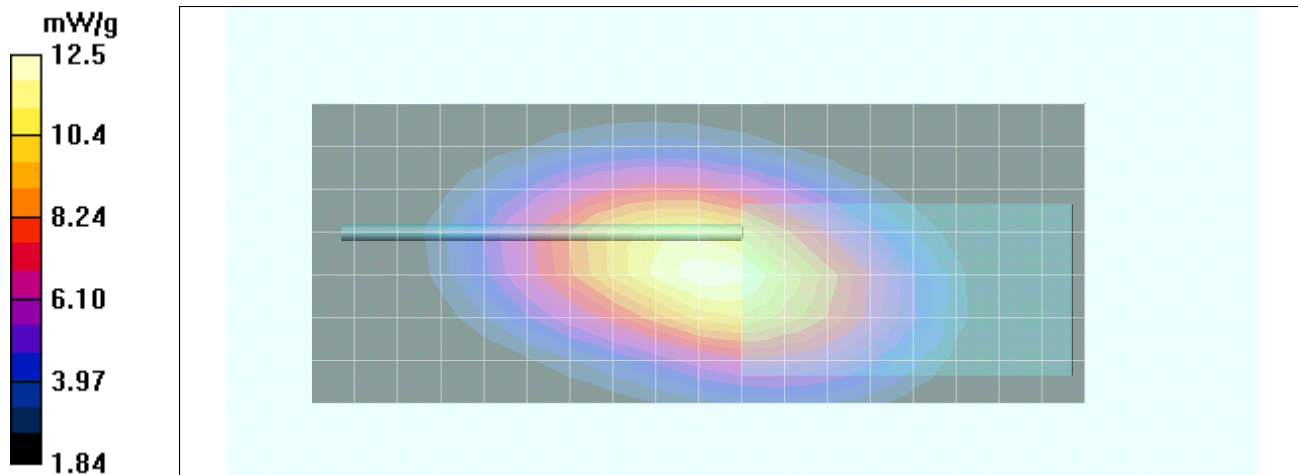
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 116.7 V/m; Power Drift = -0.533 dB


Peak SAR (extrapolated) = 17.2 W/kg

**SAR(1 g) = 11.9 mW/g; SAR(10 g) = 8.57 mW/g**

Maximum value of SAR (measured) = 12.5 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	KENWOOD
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #49 (A49)

Date Tested: 04/05/2011

### Body-worn SAR - KRA-27M2 “Antenna D” - KNB-56N 1400mAh Ni-MH “Battery c” – 484.0 MHz

**DUT: Kenwood NX-320-K2; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K218**  
**Audio Accessory Category 1 (Headset); Type: Behind-the-Head Headset w/ Boom Mic & PTT (P/N: KHS-22)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 22.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 28%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.938 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 11.5 mW/g

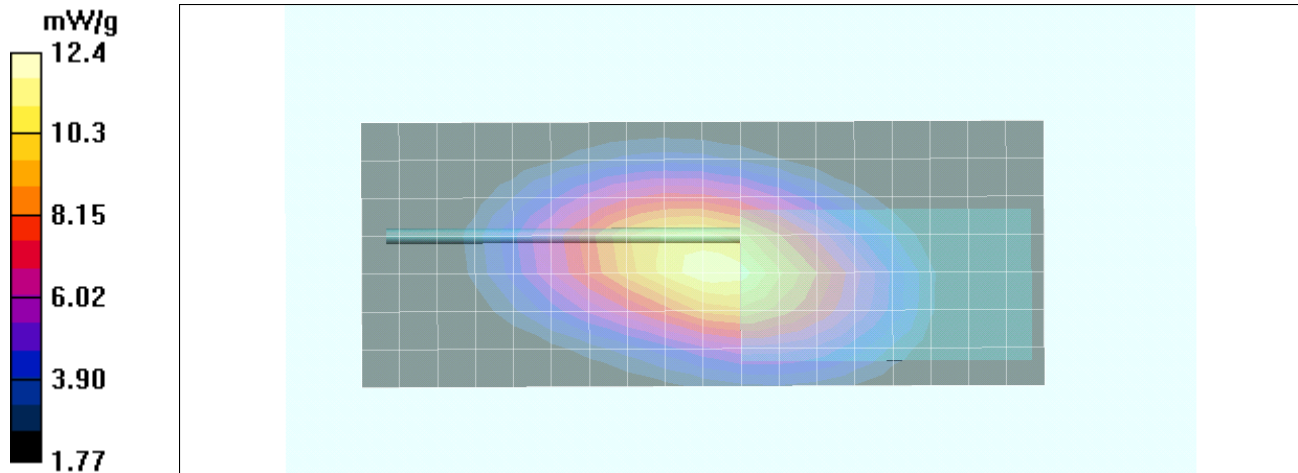
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 116.7 V/m; Power Drift = -0.504 dB

Peak SAR (extrapolated) = 17.2 W/kg

**SAR(1 g) = 11.9 mW/g; SAR(10 g) = 8.56 mW/g**

Maximum value of SAR (measured) = 12.4 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #50 (A50)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 498.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Behind-the-Head Headset w/ Boom Mic & PTT (P/N: KHS-22)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 498 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 498 \text{ MHz}$ ;  $\sigma = 0.978 \text{ mho/m}$ ;  $\epsilon_r = 59.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.7 mW/g

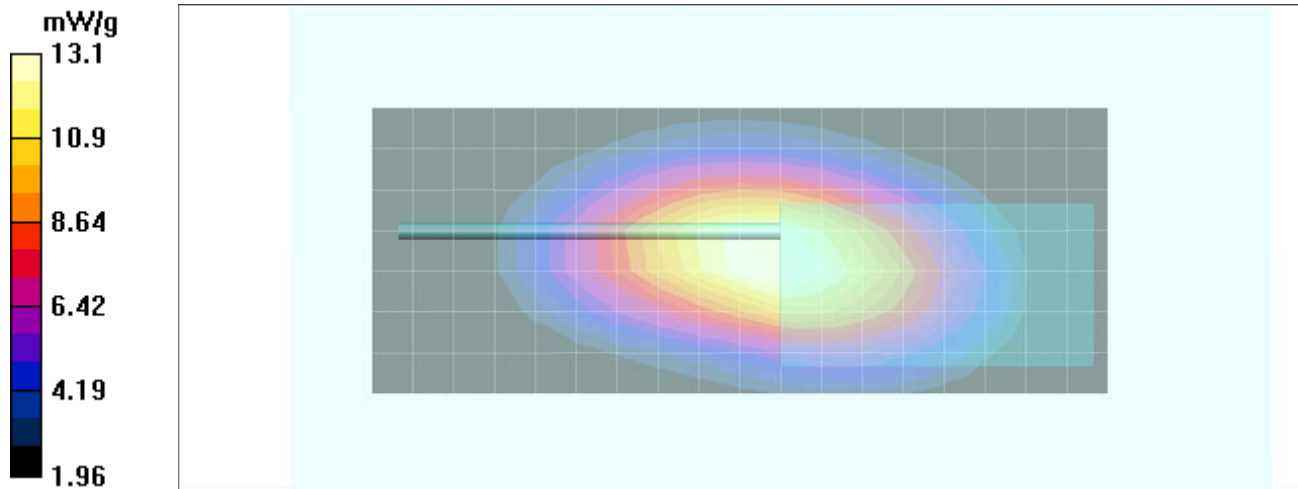
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 113.2 V/m; Power Drift = -0.196 dB

Peak SAR (extrapolated) = 18.1 W/kg

**SAR(1 g) = 12.5 mW/g; SAR(10 g) = 8.93 mW/g**

Maximum value of SAR (measured) = 13.1 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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	<u>Dates of Evaluation (K3)</u>	<u>Test Report Serial No.</u>	<u>Test Report Revision No.</u>	
	Jan. 4,6,26-28,31, 2011	121510ALH-T1070-S90U	Rev. 1.3 (4th Release)	
<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #51 (A51)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 “Antenna D” - KNB-56N 1400mAh Ni-MH “Battery c” – 512.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Behind-the-Head Headset w/ Boom Mic & PTT (P/N: KHS-22)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 512 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 58.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 11.8 mW/g

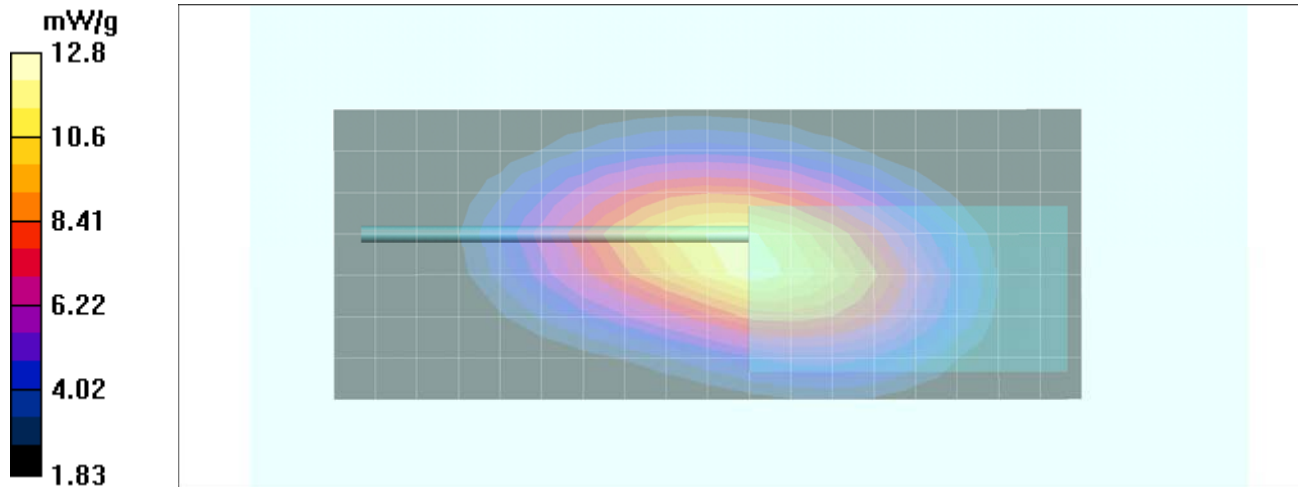
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 112.1 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 17.6 W/kg

**SAR(1 g) = 12.1 mW/g; SAR(10 g) = 8.62 mW/g**

Maximum value of SAR (measured) = 12.8 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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 Testing and Engineering Services Lab	<u>Dates of Evaluation (K3)</u>	<u>Test Report Serial No.</u>	<u>Test Report Revision No.</u>	  Test Lab Certificate No. 2470.01
	Jan. 4,6,26-28,31, 2011	121510ALH-T1070-S90U	Rev. 1.3 (4th Release)	
<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #52 (A52)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 470.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic (P/N: KHS-7)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 470 \text{ MHz}$ ;  $\sigma = 0.95 \text{ mho/m}$ ;  $\epsilon_r = 58.6$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.1 mW/g

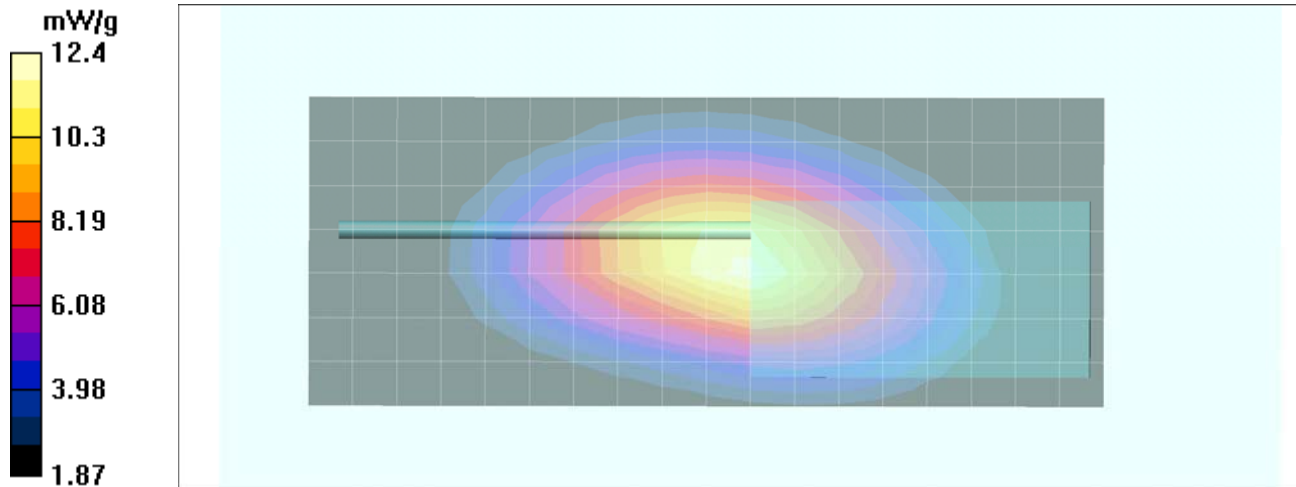
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 109.1 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 17.2 W/kg

**SAR(1 g) = 11.8 mW/g; SAR(10 g) = 8.5 mW/g**

Maximum value of SAR (measured) = 12.4 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #53 (A53)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic (P/N: KHS-7)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.964 \text{ mho/m}$ ;  $\epsilon_r = 59.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.2 mW/g

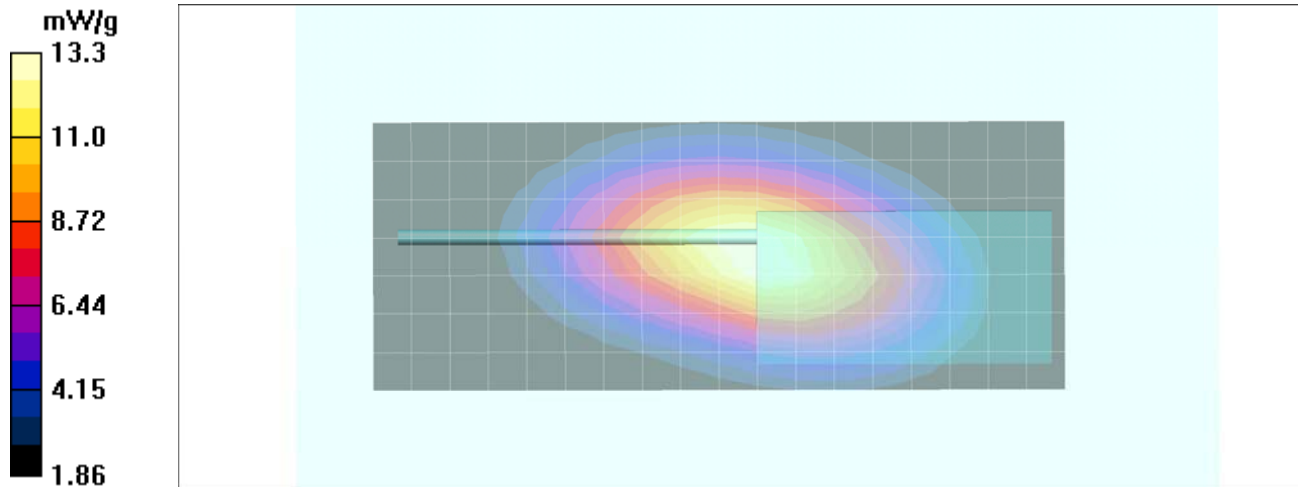
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 117.1 V/m; Power Drift = -0.517 dB


Peak SAR (extrapolated) = 18.4 W/kg

**SAR(1 g) = 12.7 mW/g; SAR(10 g) = 9.12 mW/g**

Maximum value of SAR (measured) = 13.3 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #54 (A54)

Date Tested: 04/05/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K124**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic (P/N: KHS-7)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 22.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 28%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.938 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 12.1 mW/g

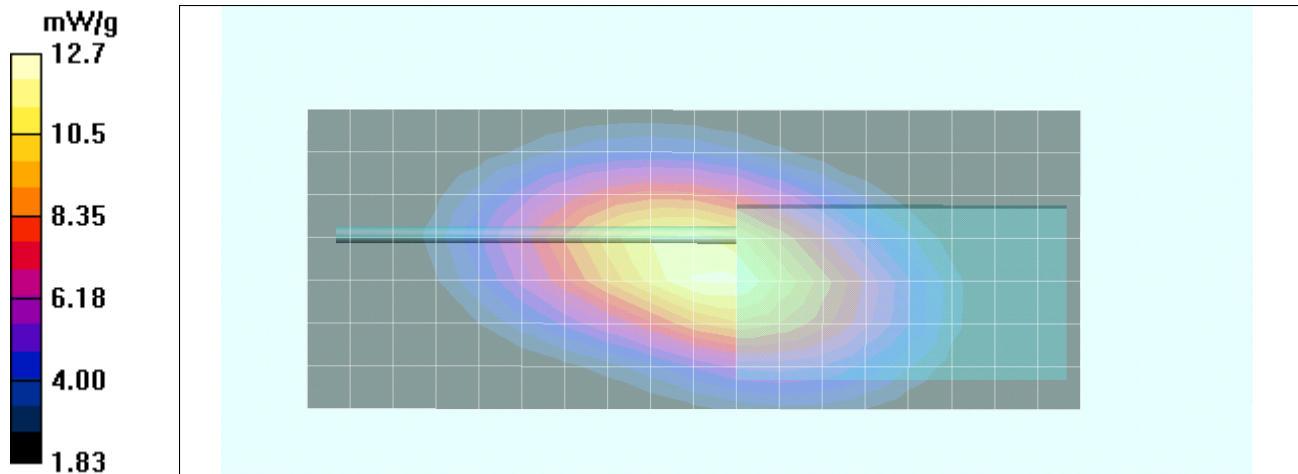
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 115.4 V/m; Power Drift = -0.547 dB


Peak SAR (extrapolated) = 17.5 W/kg

**SAR(1 g) = 12.1 mW/g; SAR(10 g) = 8.59 mW/g**

Maximum value of SAR (measured) = 12.7 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #55 (A55)

Date Tested: 04/05/2011

### Body-worn SAR - KRA-27M2 “Antenna D” - KNB-56N 1400mAh Ni-MH “Battery c” – 484.0 MHz

**DUT: Kenwood NX-320-K2; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K218**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic (P/N: KHS-7)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 22.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 28%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.938 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 11.8 mW/g

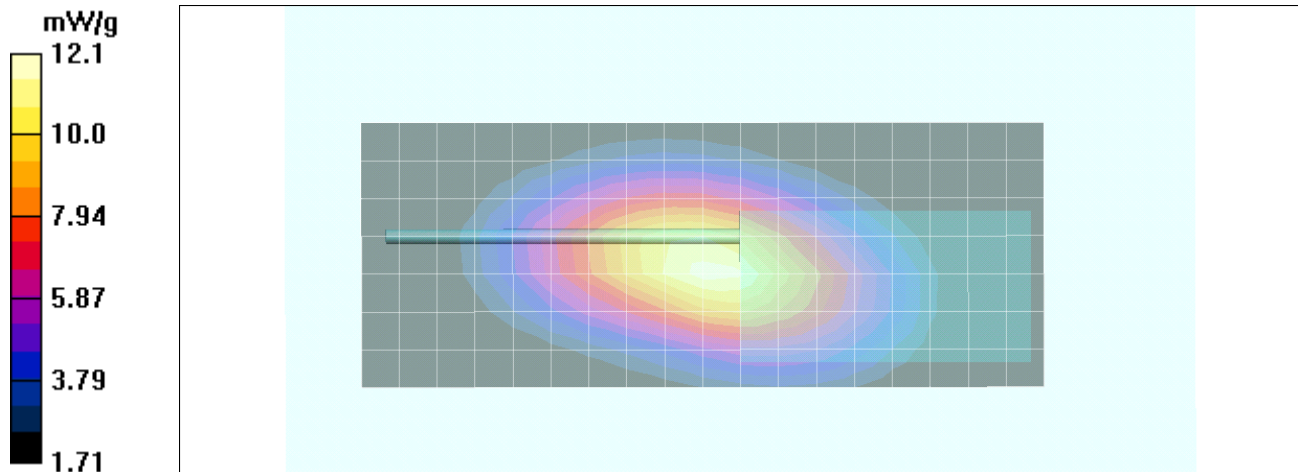
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 114.8 V/m; Power Drift = -0.559 dB


Peak SAR (extrapolated) = 16.7 W/kg

**SAR(1 g) = 11.5 mW/g; SAR(10 g) = 8.29 mW/g**

Maximum value of SAR (measured) = 12.1 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #56 (A56)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 “Antenna D” - KNB-56N 1400mAh Ni-MH “Battery c” – 498.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic (P/N: KHS-7)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 498 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 498 \text{ MHz}$ ;  $\sigma = 0.978 \text{ mho/m}$ ;  $\epsilon_r = 59.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.1 mW/g

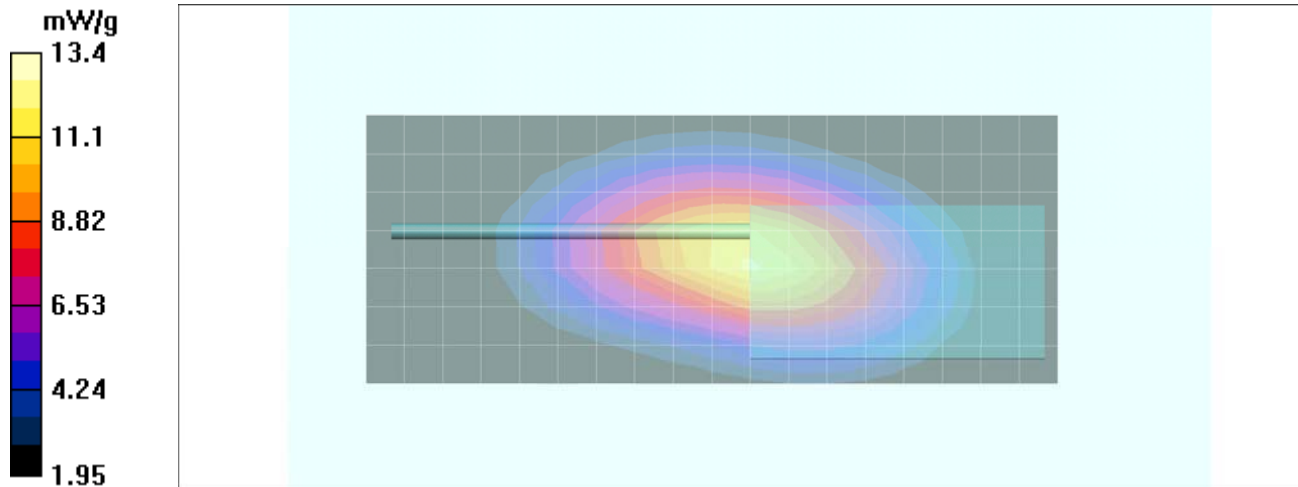
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 112.0 V/m; Power Drift = -0.316 dB

Peak SAR (extrapolated) = 18.6 W/kg

**SAR(1 g) = 12.7 mW/g; SAR(10 g) = 9.07 mW/g**

Maximum value of SAR (measured) = 13.4 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #57 (A57)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 512.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic (P/N: KHS-7)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 512 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 58.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 11.4 mW/g

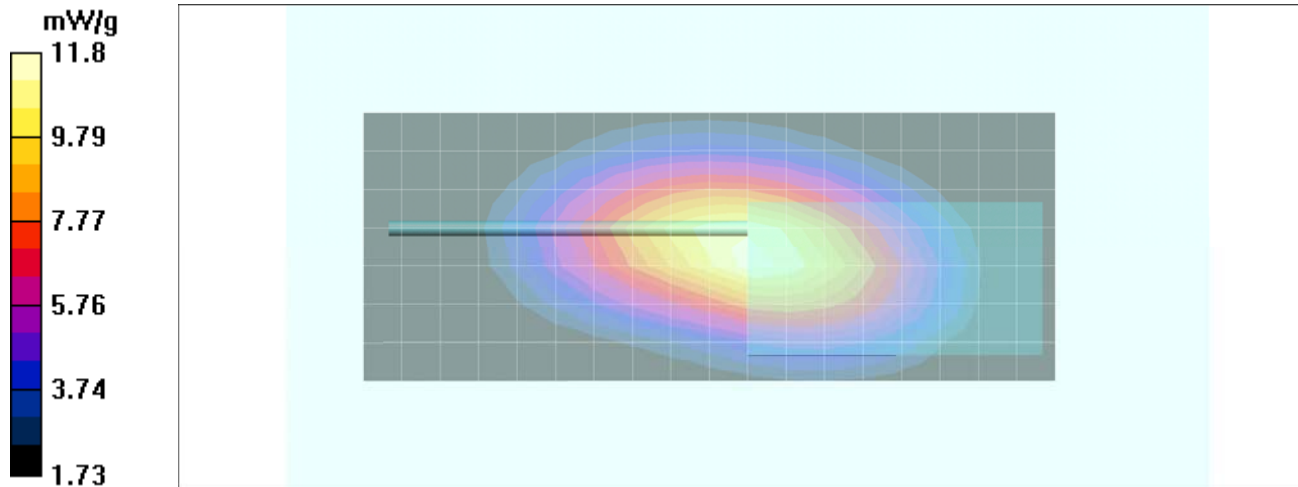
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 107.6 V/m; Power Drift = -0.275 dB

Peak SAR (extrapolated) = 16.2 W/kg

**SAR(1 g) = 11.2 mW/g; SAR(10 g) = 8.04 mW/g**

Maximum value of SAR (measured) = 11.8 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #58 (A58)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 470.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic & PTT (P/N: KHS-7A)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 470 \text{ MHz}$ ;  $\sigma = 0.95 \text{ mho/m}$ ;  $\epsilon_r = 58.6$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.0 mW/g

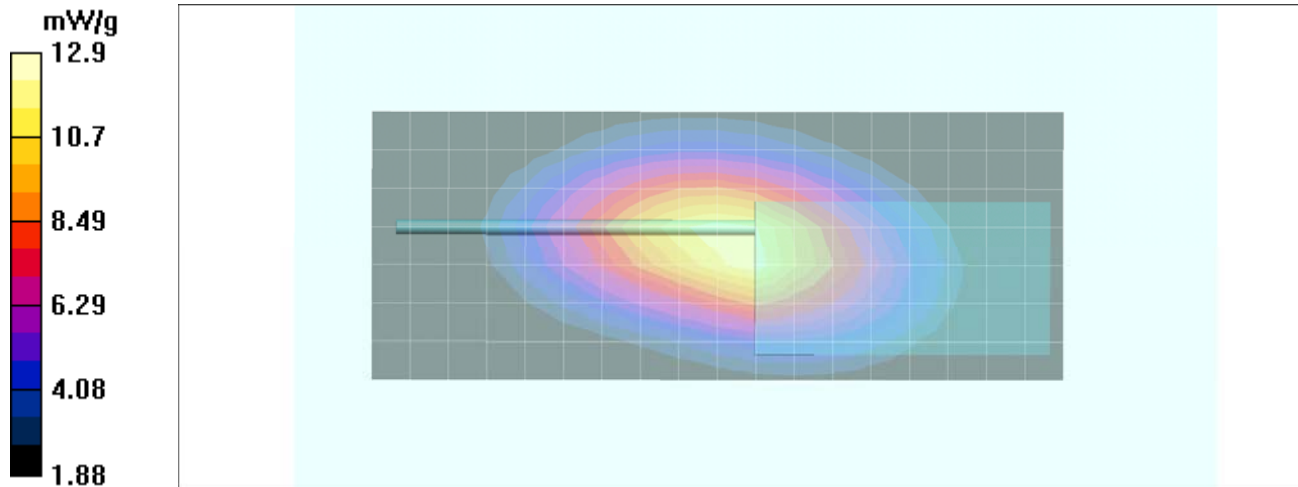
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 112.1 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 18.0 W/kg

**SAR(1 g) = 12.3 mW/g; SAR(10 g) = 8.76 mW/g**

Maximum value of SAR (measured) = 12.9 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #59 (A59)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic & PTT (P/N: KHS-7A)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.964 \text{ mho/m}$ ;  $\epsilon_r = 59.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.4 mW/g

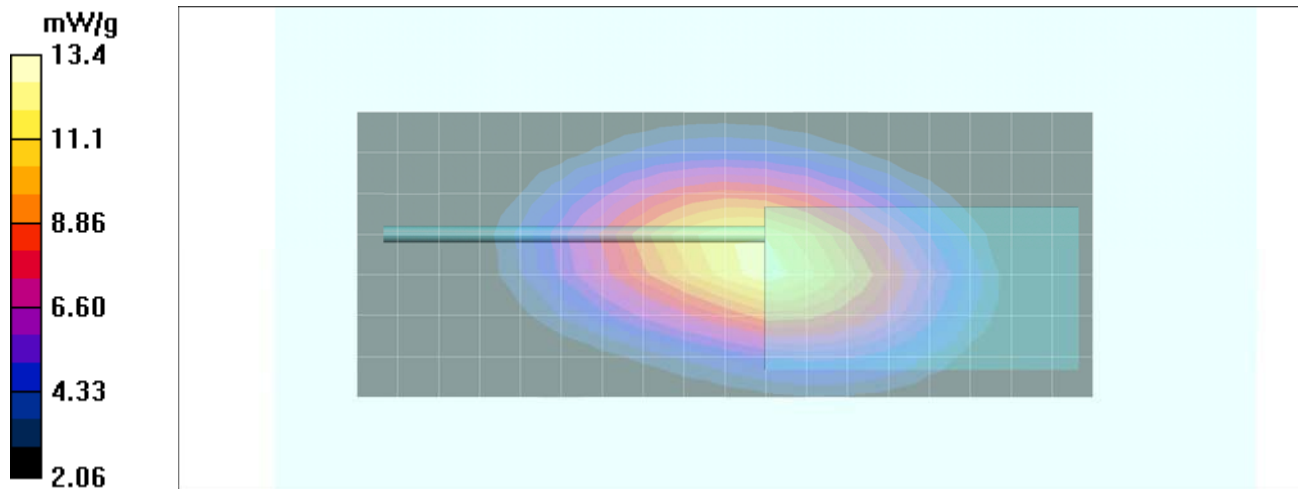
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 117.3 V/m; Power Drift = -0.428 dB

Peak SAR (extrapolated) = 18.3 W/kg

**SAR(1 g) = 12.8 mW/g; SAR(10 g) = 9.19 mW/g**

Maximum value of SAR (measured) = 13.4 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #60 (A60)

Date Tested: 04/05/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320H124**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic & PTT (P/N: KHS-7A)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

22.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 28%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.938 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.4 mW/g

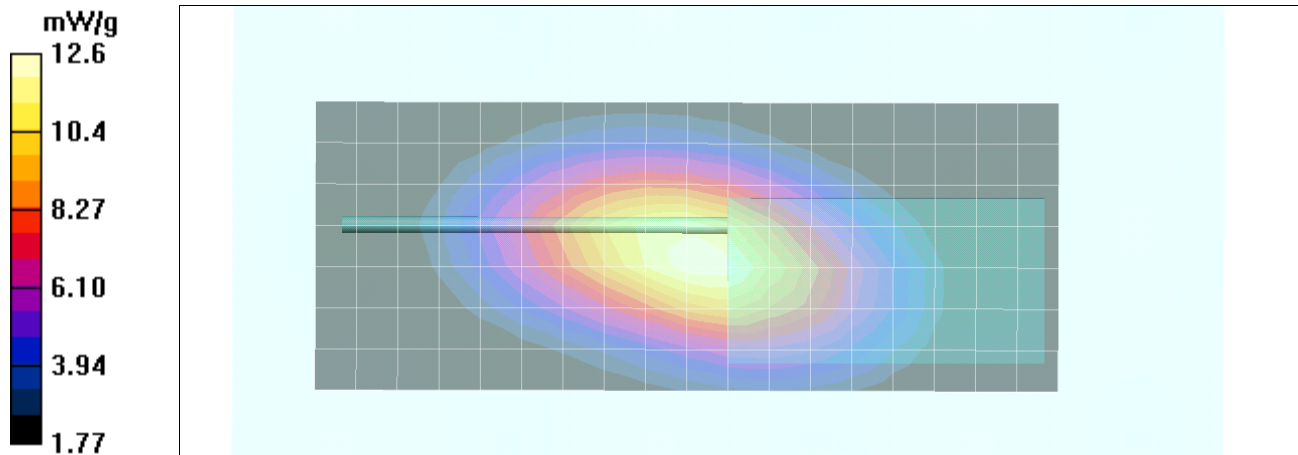
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 116.8 V/m; Power Drift = -0.602 dB

Peak SAR (extrapolated) = 17.4 W/kg

**SAR(1 g) = 12 mW/g; SAR(10 g) = 8.58 mW/g**

Maximum value of SAR (measured) = 12.6 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #61 (A61)

Date Tested: 04/05/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K2; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320H218**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic & PTT (P/N: KHS-7A)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

22.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 28%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.938 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.4 mW/g

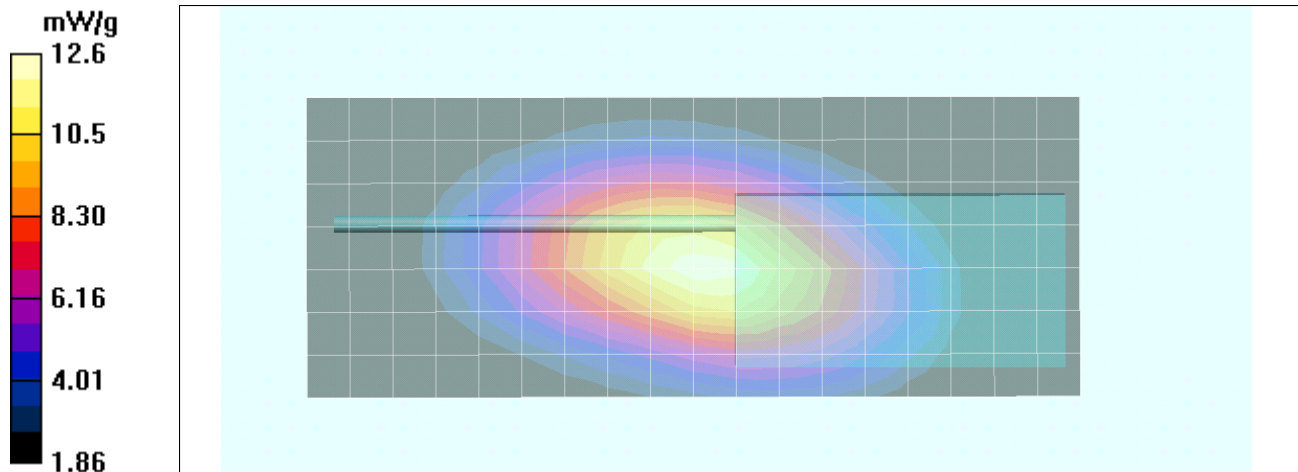
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 117.2 V/m; Power Drift = -0.493 dB

Peak SAR (extrapolated) = 17.3 W/kg

**SAR(1 g) = 12 mW/g; SAR(10 g) = 8.61 mW/g**

Maximum value of SAR (measured) = 12.6 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #62 (A62)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 498.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic & PTT (P/N: KHS-7A)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 498 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 498 \text{ MHz}$ ;  $\sigma = 0.978 \text{ mho/m}$ ;  $\epsilon_r = 59.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.5 mW/g

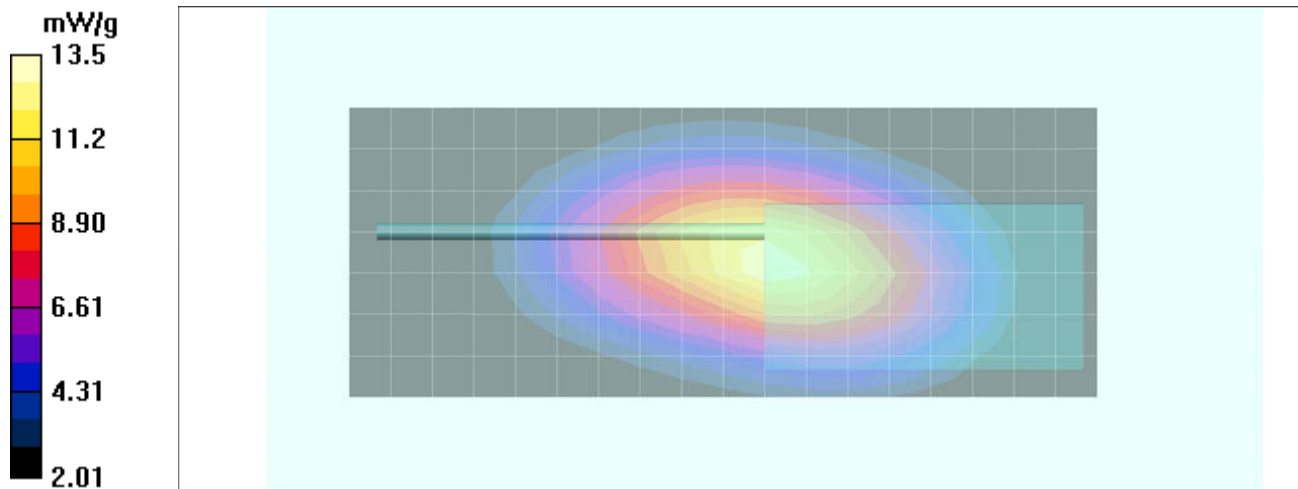
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 114.2 V/m; Power Drift = -0.276 dB

Peak SAR (extrapolated) = 18.5 W/kg

**SAR(1 g) = 12.8 mW/g; SAR(10 g) = 9.1 mW/g**

Maximum value of SAR (measured) = 13.5 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #63 (A63)

Date Tested: 01/31/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 512.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 1 (Headset); Type: Single Muff Headset w/ Boom Mic & PTT (P/N: KHS-7A)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 512 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 58.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 11.4 mW/g

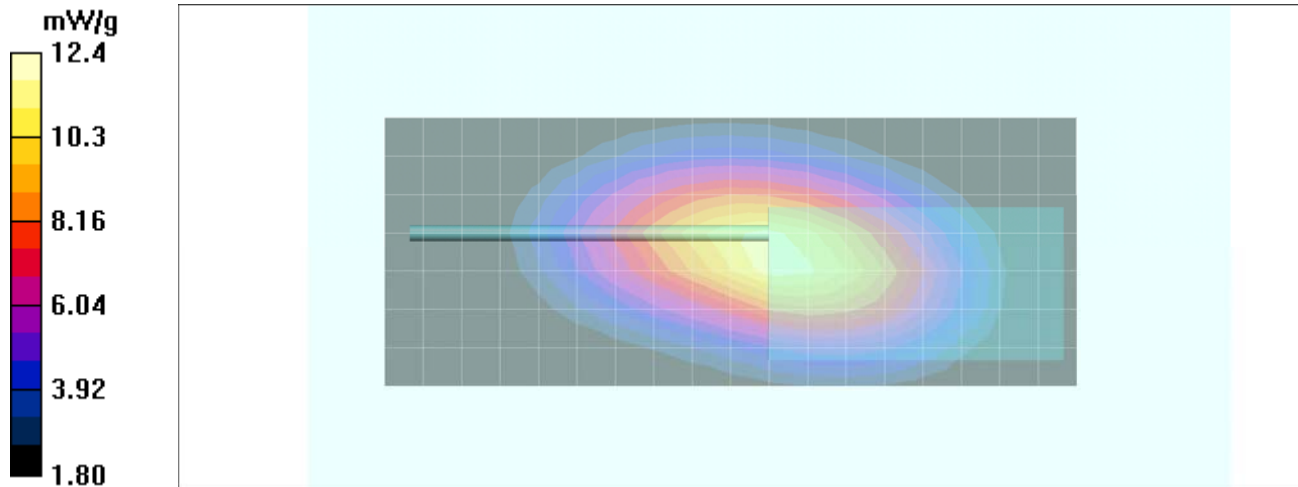
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 109.2 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 17.1 W/kg

**SAR(1 g) = 11.8 mW/g; SAR(10 g) = 8.46 mW/g**

Maximum value of SAR (measured) = 12.4 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #64 (A64)

Date Tested: 01/28/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 470.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 2 (Earpiece); Type: 2-Wire Ear-Bud w/ mic/PTT – Vox Ready (P/N: KHS-23)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.0°C; Fluid Temp: 23.1°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 470 \text{ MHz}$ ;  $\sigma = 0.93 \text{ mho/m}$ ;  $\epsilon_r = 58.8$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 11.5 mW/g

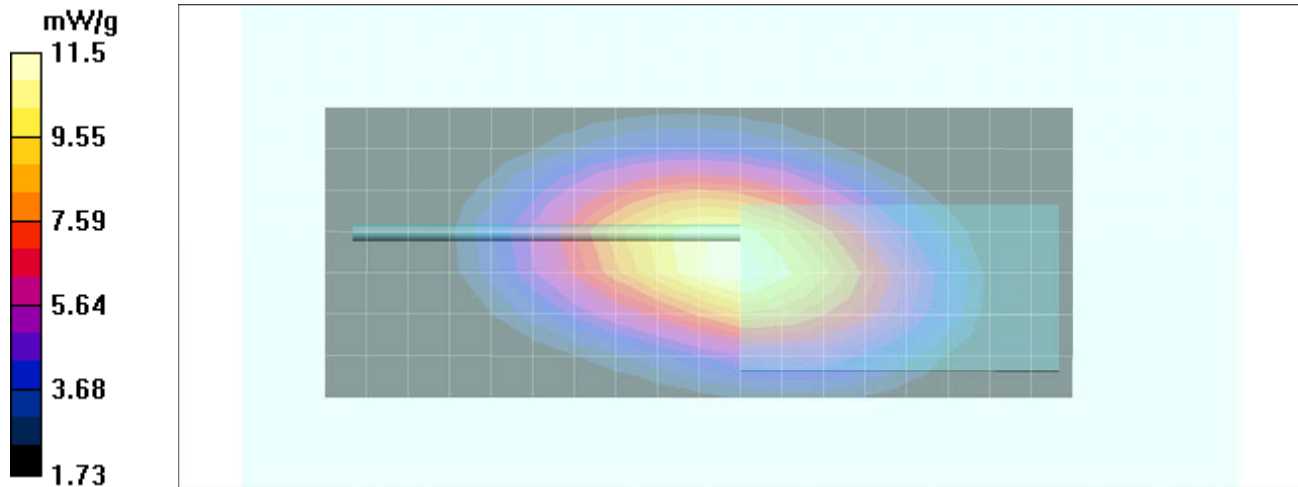
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 111.4 V/m; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 15.9 W/kg

**SAR(1 g) = 11 mW/g; SAR(10 g) = 7.93 mW/g**

Maximum value of SAR (measured) = 11.5 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #65 (A65)

Date Tested: 01/28/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 2 (Earpiece); Type: 2-Wire Ear-Bud w/ mic/PTT – Vox Ready (P/N: KHS-23)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.0°C; Fluid Temp: 23.1°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.954 \text{ mho/m}$ ;  $\epsilon_r = 58.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.8 mW/g

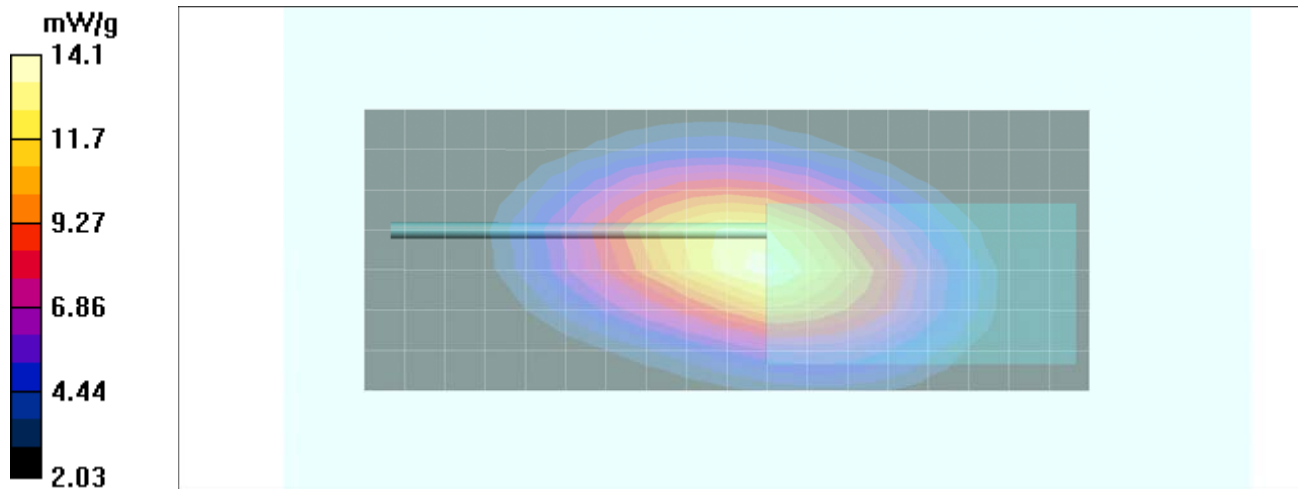
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 123.0 V/m; Power Drift = -0.430 dB

Peak SAR (extrapolated) = 19.7 W/kg

**SAR(1 g) = 13.6 mW/g; SAR(10 g) = 9.71 mW/g**

Maximum value of SAR (measured) = 14.1 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #66 (A66)

Date Tested: 04/05/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K124**  
**Audio Accessory Category 2 (Earpiece); Type: 2-Wire Ear-Bud w/ mic/PTT – Vox Ready (P/N: KHS-23)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 22.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 28%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.938 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.9 mW/g

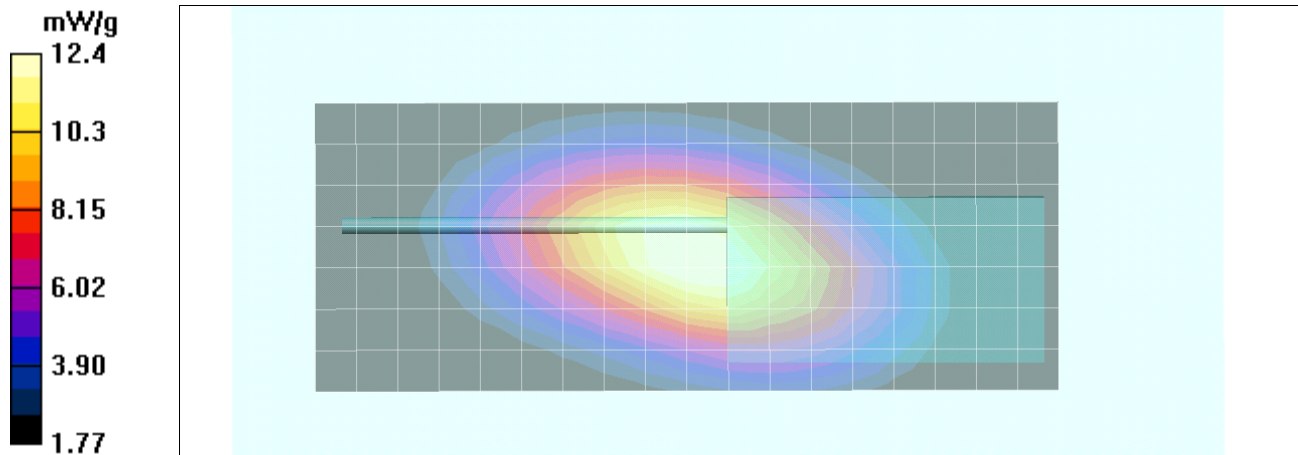
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 114.9 V/m; Power Drift = -0.509 dB

Peak SAR (extrapolated) = 17.2 W/kg

**SAR(1 g) = 11.8 mW/g; SAR(10 g) = 8.42 mW/g**

Maximum value of SAR (measured) = 12.4 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #67 (A67)

Date Tested: 04/05/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K2; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K218**  
**Audio Accessory Category 2 (Earpiece); Type: 2-Wire Ear-Bud w/ mic/PTT – Vox Ready (P/N: KHS-23)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 22.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 28%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.938 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.3 mW/g

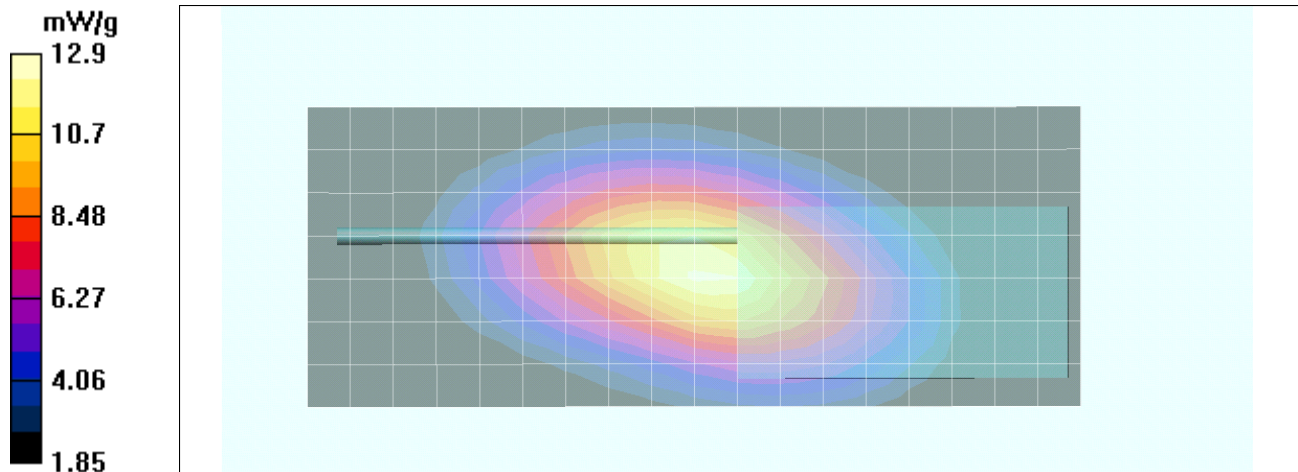
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 117.1 V/m; Power Drift = -0.540 dB

Peak SAR (extrapolated) = 17.7 W/kg

**SAR(1 g) = 12.2 mW/g; SAR(10 g) = 8.75 mW/g**

Maximum value of SAR (measured) = 12.9 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	KENWOOD
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>	450.0 - 512.0 MHz			
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #68 (A68)

Date Tested: 01/28/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 498.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 2 (Earpiece); Type: 2-Wire Ear-Bud w/ mic/PTT – Vox Ready (P/N: KHS-23)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.0°C; Fluid Temp: 23.1°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 498 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 498 \text{ MHz}$ ;  $\sigma = 0.968 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.6 mW/g

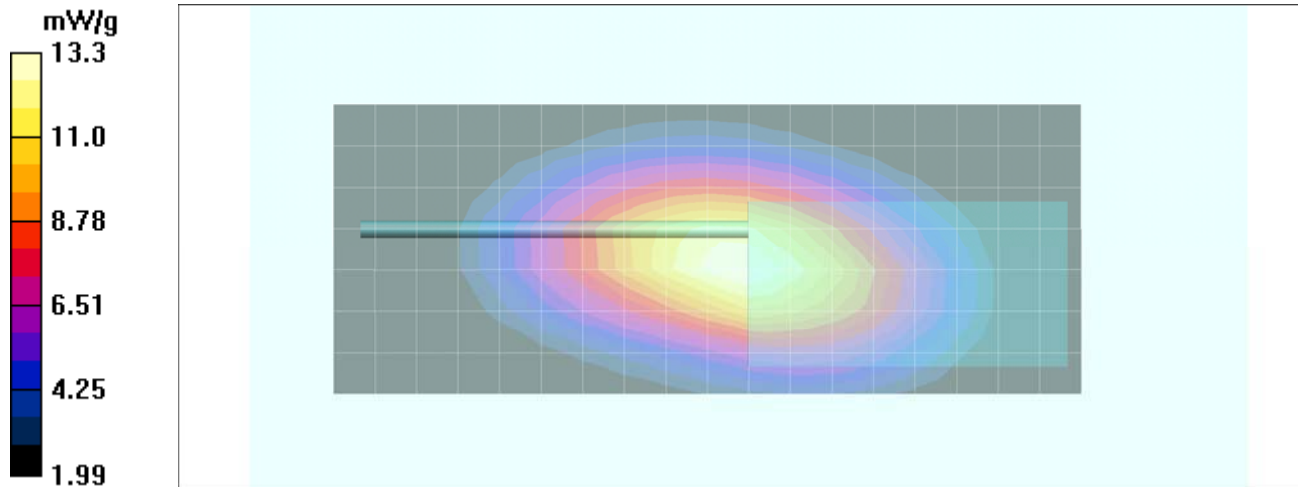
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 116.8 V/m; Power Drift = -0.286 dB

Peak SAR (extrapolated) = 18.1 W/kg

**SAR(1 g) = 12.6 mW/g; SAR(10 g) = 9.01 mW/g**

Maximum value of SAR (measured) = 13.3 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #69 (A69)

Date Tested: 01/28/2011

### Body-worn SAR - KRA-27M2 “Antenna D” - KNB-56N 1400mAh Ni-MH “Battery c” – 512.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 2 (Earpiece); Type: 2-Wire Ear-Bud w/ mic/PTT – Vox Ready (P/N: KHS-23)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.0°C; Fluid Temp: 23.1°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 512 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 57.9$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.2 mW/g

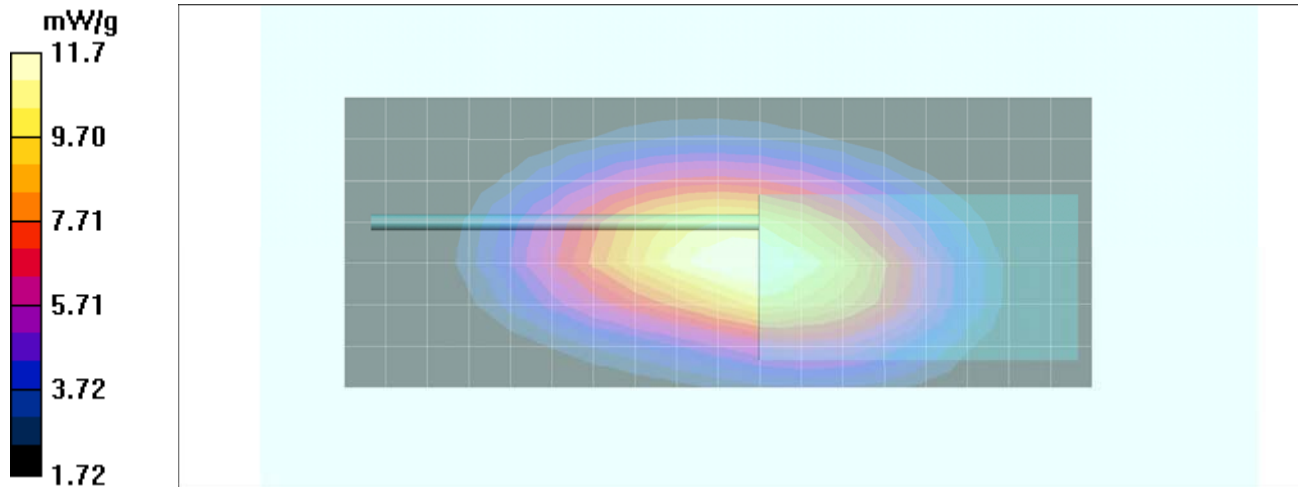
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 107.8 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 16.3 W/kg

**SAR(1 g) = 11.2 mW/g; SAR(10 g) = 8.02 mW/g**

Maximum value of SAR (measured) = 11.7 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #70 (A70)

Date Tested: 01/28/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 470.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 2 (Earpiece); Type: Earhook w/ Mini Boom Mic – Vox Ready (P/N: KHS-25)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.0°C; Fluid Temp: 23.1°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used:  $f = 470 \text{ MHz}$ ;  $\sigma = 0.93 \text{ mho/m}$ ;  $\epsilon_r = 58.8$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 11.4 mW/g

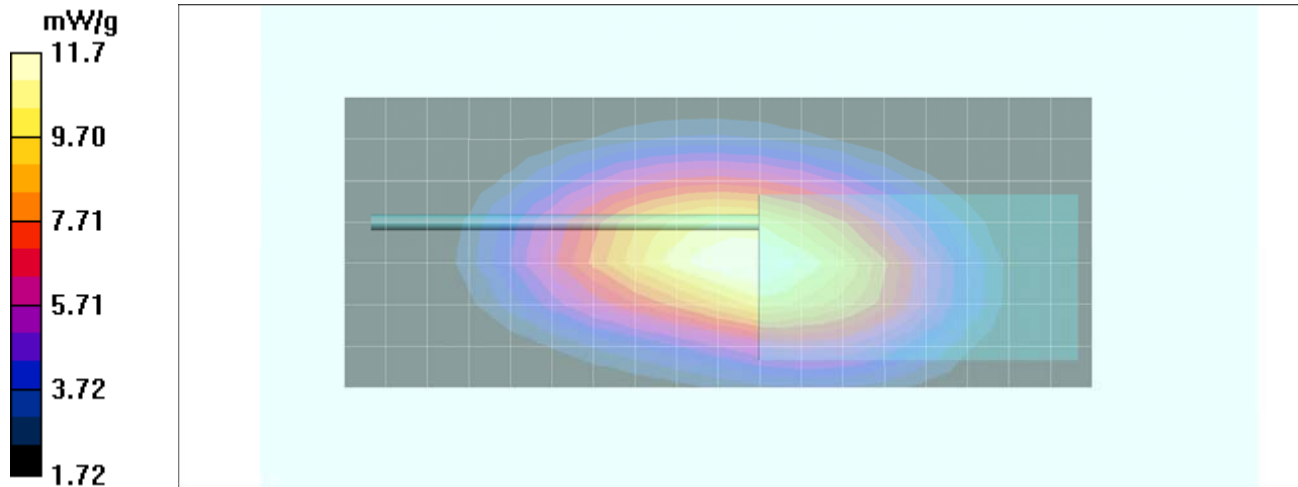
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 106.7 V/m; Power Drift = 0.268 dB


Peak SAR (extrapolated) = 15.5 W/kg

**SAR(1 g) = 10.8 mW/g; SAR(10 g) = 7.8 mW/g**

Maximum value of SAR (measured) = 11.3 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>	450.0 - 512.0 MHz			
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #71 (A71)

Date Tested: 01/28/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 2 (Earpiece); Type: Earhook w/ Mini Boom Mic – Vox Ready (P/N: KHS-25)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.0°C; Fluid Temp: 23.1°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.954 \text{ mho/m}$ ;  $\epsilon_r = 58.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.6 mW/g

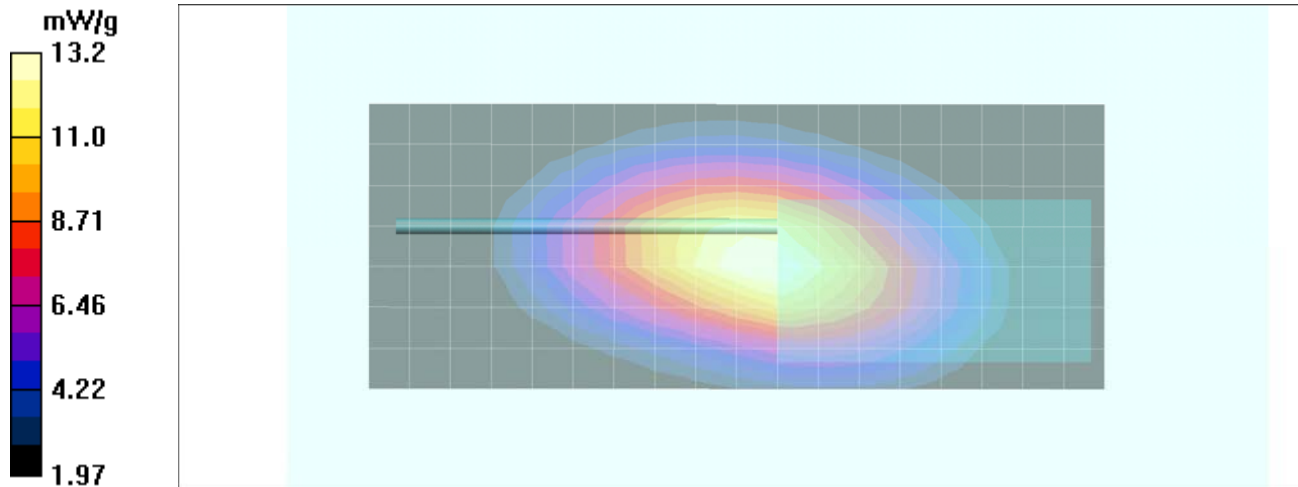
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 119.1 V/m; Power Drift = -0.542 dB

Peak SAR (extrapolated) = 18.4 W/kg

**SAR(1 g) = 12.6 mW/g; SAR(10 g) = 9 mW/g**

Maximum value of SAR (measured) = 13.2 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #72 (A72)

Date Tested: 04/05/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K124**  
**Audio Accessory Category 2 (Earpiece); Type: Earhook w/ Mini Boom Mic – Vox Ready (P/N: KHS-25)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 22.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 28%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.938 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.5 mW/g

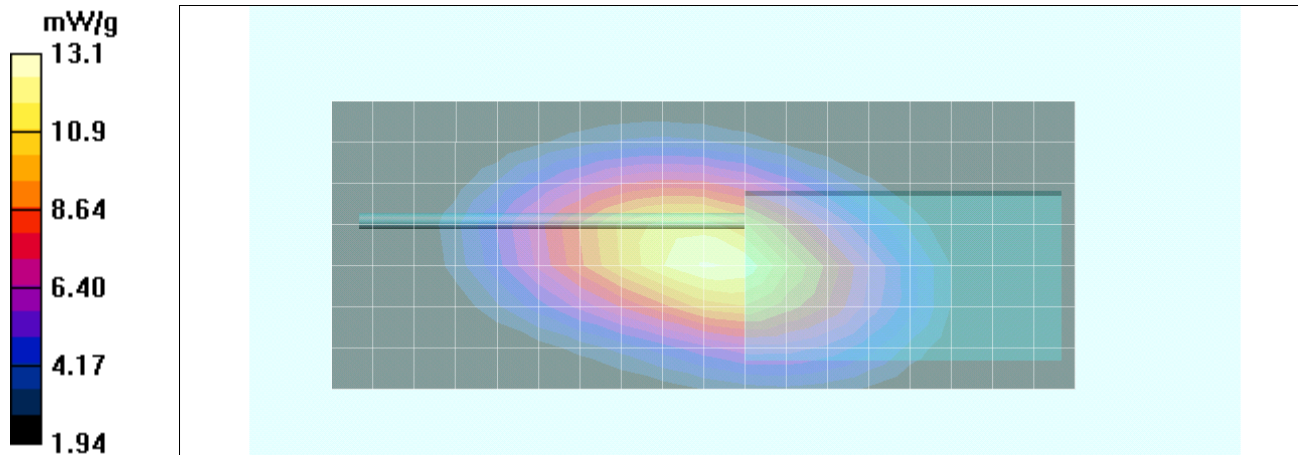
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 118.1 V/m; Power Drift = -0.499 dB

Peak SAR (extrapolated) = 18.1 W/kg

**SAR(1 g) = 12.5 mW/g; SAR(10 g) = 8.92 mW/g**

Maximum value of SAR (measured) = 13.1 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #73 (A73)

Date Tested: 04/05/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 484.0 MHz

**DUT: Kenwood NX-320-K2; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 0320K218**  
**Audio Accessory Category 2 (Earpiece); Type: Earhook w/ Mini Boom Mic – Vox Ready (P/N: KHS-25)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 22.0°C; Fluid Temp: 20.5°C; Barometric Pressure: 101.1 kPa; Humidity: 28%

Communication System: CW

Frequency: 484 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 484 \text{ MHz}$ ;  $\sigma = 0.938 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 10.8 mW/g

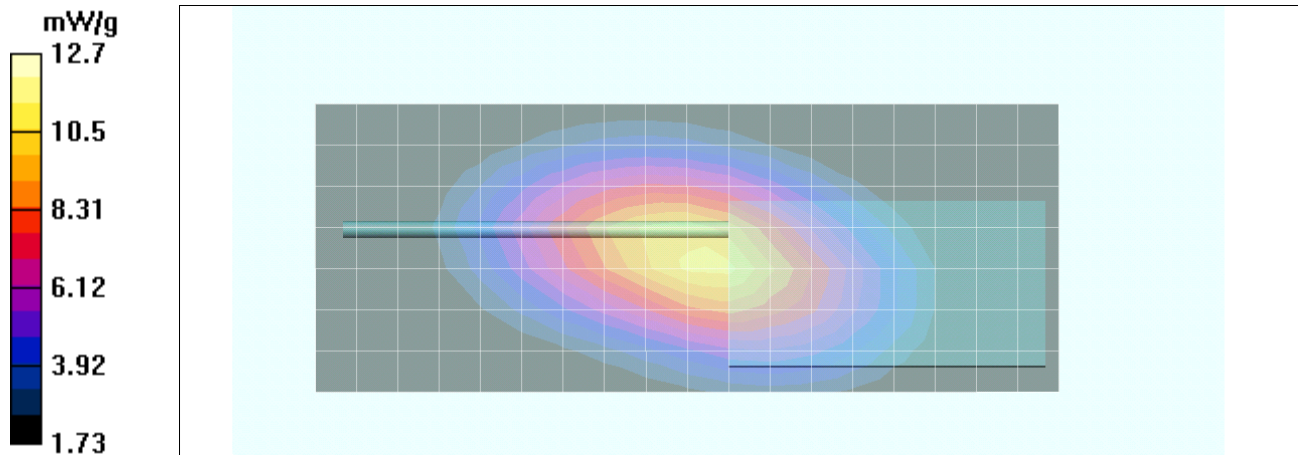
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 115.0 V/m; Power Drift = -0.483 dB

Peak SAR (extrapolated) = 17.5 W/kg

**SAR(1 g) = 12 mW/g; SAR(10 g) = 8.54 mW/g**

Maximum value of SAR (measured) = 12.7 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #74 (A74)

Date Tested: 01/28/2011

### Body-worn SAR - KRA-27M2 "Antenna D" - KNB-56N 1400mAh Ni-MH "Battery c" – 498.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 2 (Earpiece); Type: Earhook w/ Mini Boom Mic – Vox Ready (P/N: KHS-25)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.0°C; Fluid Temp: 23.1°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 498 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 498 \text{ MHz}$ ;  $\sigma = 0.968 \text{ mho/m}$ ;  $\epsilon_r = 58.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.9 mW/g

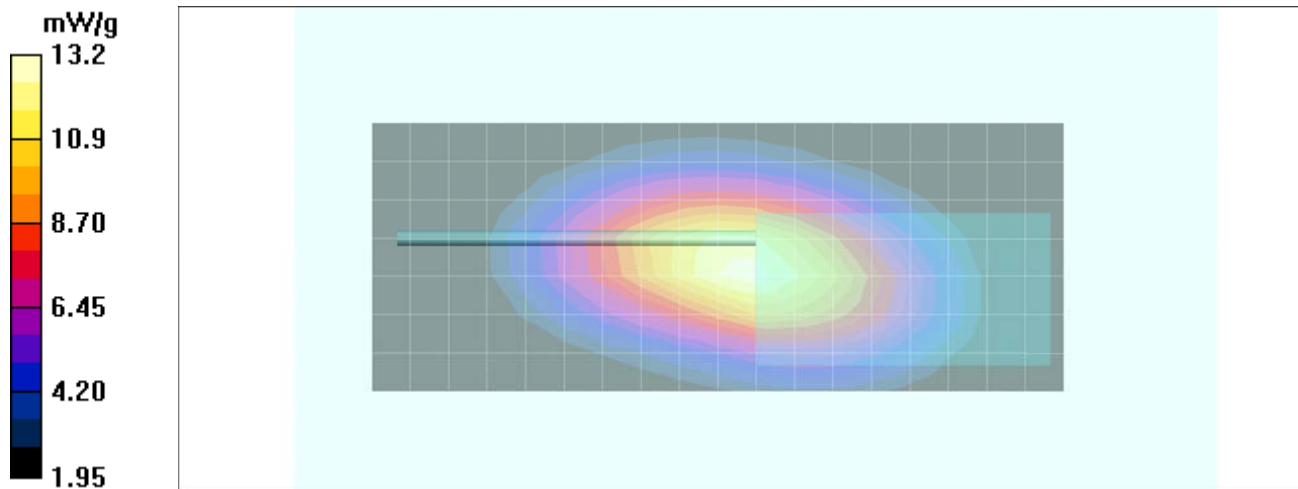
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 117.5 V/m; Power Drift = -0.403 dB


Peak SAR (extrapolated) = 18.2 W/kg

**SAR(1 g) = 12.5 mW/g; SAR(10 g) = 9 mW/g**

Maximum value of SAR (measured) = 13.2 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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	<u>Dates of Evaluation (K3)</u>	<u>Test Report Serial No.</u>	<u>Test Report Revision No.</u>	
	Jan. 4,6,26-28,31, 2011	121510ALH-T1070-S90U	Rev. 1.3 (4th Release)	
<u>Test Report Issue Date</u>	<u>Dates of Evaluation (K/K2)</u>	<u>Description of Test(s)</u>	<u>RF Exposure Category</u>	
April 14, 2011	March 30 - April 7, 2011	Specific Absorption Rate	Occupational (Controlled)	

## Audio Accessory SAR Plot #75 (A75)

Date Tested: 01/28/2011

### Body-worn SAR - KRA-27M2 “Antenna D” - KNB-56N 1400mAh Ni-MH “Battery c” – 512.0 MHz

**DUT: Kenwood NX-320-K3; Type: Portable FM UHF-H PTT Radio Transceiver; Serial: No. 10**  
**Audio Accessory Category 2 (Earpiece); Type: Earhook w/ Mini Boom Mic – Vox Ready (P/N: KHS-25)**  
**Body-worn Accessory 1: Belt-Clip (P/N: KBH-12)**

Ambient Temp: 24.0°C; Fluid Temp: 23.1°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: CW

Frequency: 512 MHz; Duty Cycle: 1:1

Medium: M450 Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 57.9$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.73, 7.73, 7.73); Calibrated: 15/07/2010
- 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 – 1.7 cm Belt-Clip Spacing from Back of DUT to Planar Phantom

**Area Scan (8x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.2 mW/g

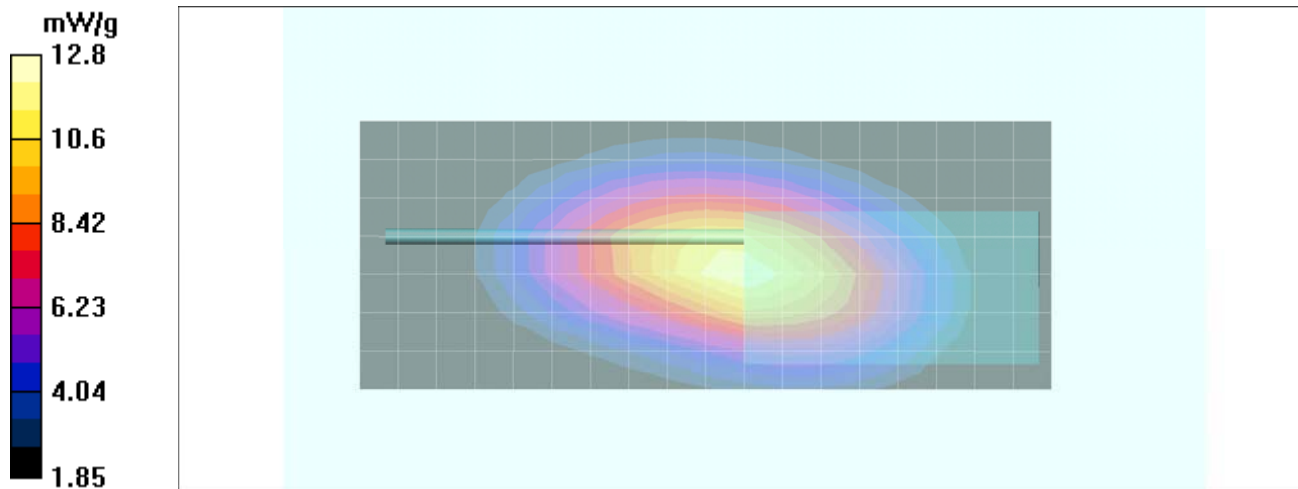
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 113.3 V/m; Power Drift = -0.206 dB

Peak SAR (extrapolated) = 17.8 W/kg

**SAR(1 g) = 12.2 mW/g; SAR(10 g) = 8.64 mW/g**

Maximum value of SAR (measured) = 12.8 mW/g



<b>Applicant:</b>	Kenwood USA Corporation	<b>FCC ID:</b>	ALH431000	<b>DUT Models:</b>	NX-320-K/K2/K3	<b>KENWOOD</b>
<b>DUT Type:</b>	Portable UHF-H PTT Radio Transceiver	<b>Transmitter Frequency Range:</b>		450.0 - 512.0 MHz		
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