
	<u>Date(s) of Evaluation</u> August 29-30, 2006	<u>Test Report Serial No.</u> 082406ALH-T769-S90U	<u>Report Revision No.</u> Revision 1.0	
	<u>Report Issue Date</u> September 15, 2006	<u>Description of Test(s)</u> RF Exposure - SAR	<u>RF Exposure Category</u> Occupational/Controlled	

APPENDIX A - SAR MEASUREMENT DATA

Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	KENWOOD
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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	<u>Date(s) of Evaluation</u> August 29-30, 2006	<u>Test Report Serial No.</u> 082406ALH-T769-S90U	<u>Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Report Issue Date</u> September 15, 2006	<u>Description of Test(s)</u> RF Exposure - SAR	<u>RF Exposure Category</u> Occupational/Controlled	

Date Tested: 08/30/2006

Face-Held SAR - NiCd Battery - Whip Antenna (P/N: KRA-27M3) - Mid Channel - 425 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: FM UHF

Frequency: 425 MHz; Duty Cycle: 1:1

RF Output Power: 3.90 Watts (Conducted)

7.5V 1700mAh NiCd Battery Pack (P/N: KNB-31A)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1387; ConvF(7.4, 7.4, 7.4); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel

Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.49 mW/g

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel

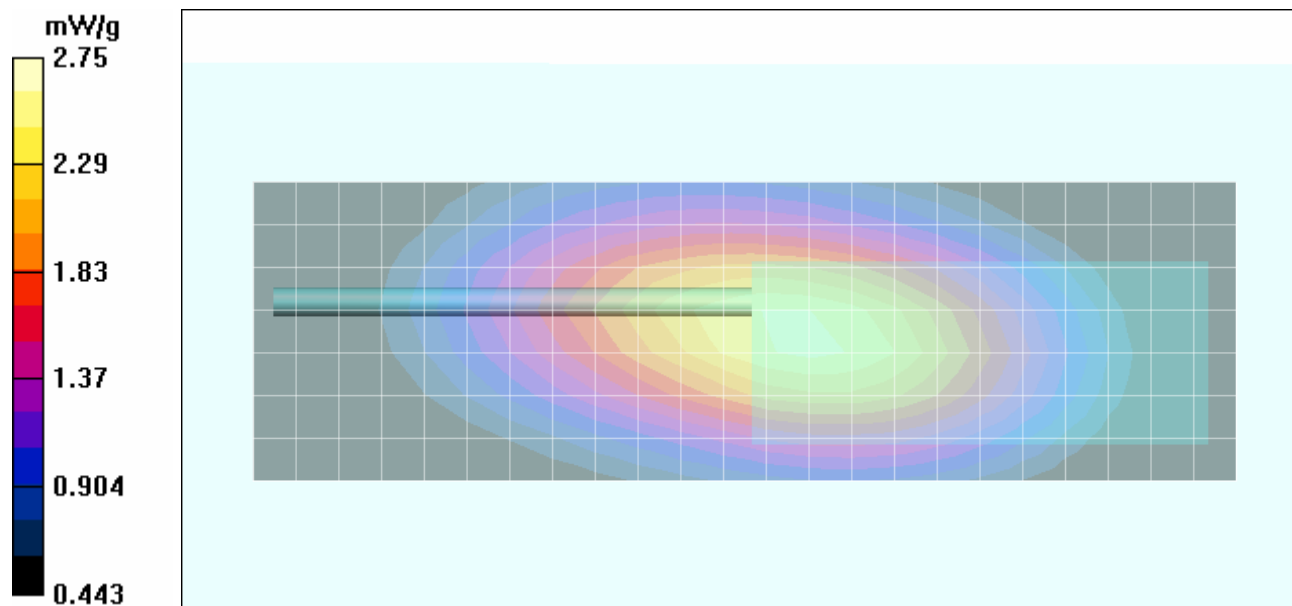
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm


Reference Value = 57.2 V/m; Power Drift = -0.479 dB



Peak SAR (extrapolated) = 3.95 W/kg

SAR(1 g) = 2.65 mW/g; SAR(10 g) = 1.96 mW/g

Maximum value of SAR (measured) = 2.75 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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	<u>Report Issue Date</u> September 15, 2006	<u>Description of Test(s)</u> RF Exposure - SAR	<u>RF Exposure Category</u> Occupational/Controlled	

Date Tested: 08/30/2006

Face-Held SAR - NiMH Battery - Whip Antenna (P/N: KRA-27M3) - Mid Channel - 425 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: FM UHF
 Frequency: 425 MHz; Duty Cycle: 1:1
 RF Output Power: 3.90 Watts (Conducted)
 7.5V 2500mAh NiMH Battery Pack (P/N: KNB-32N)
 Medium: HSL450 ($\sigma = 0.84 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$)

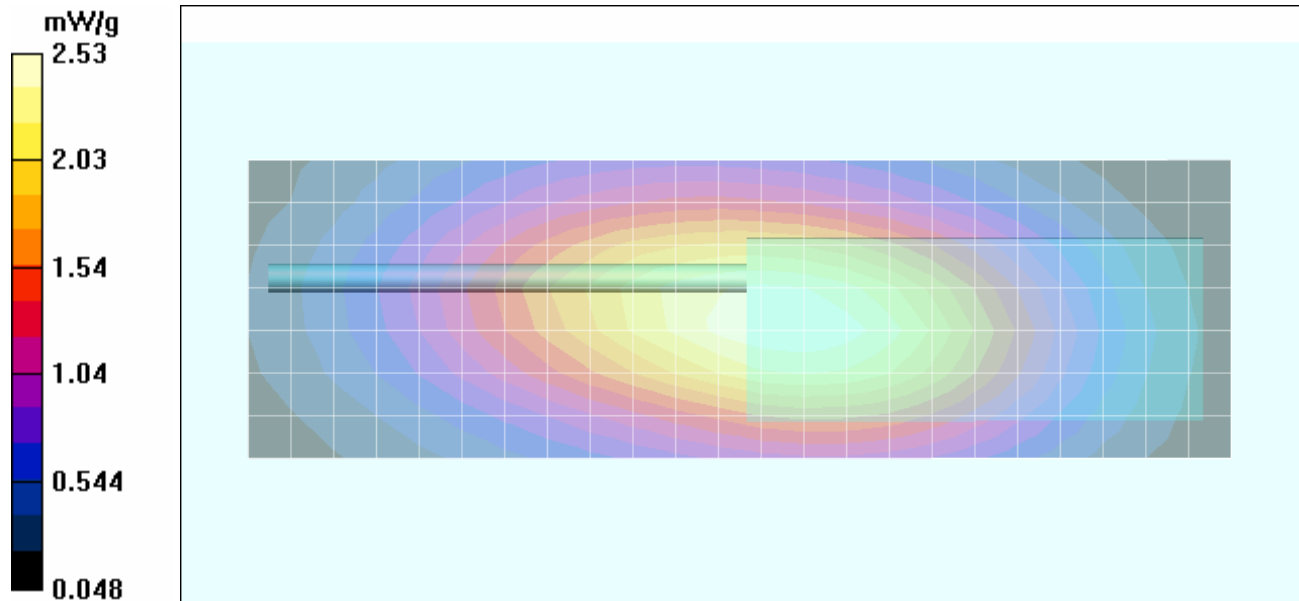
- Probe: ET3DV6 - SN1387; ConvF(7.4, 7.4, 7.4); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171


Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel



Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.53 mW/g

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 54.4 V/m; Power Drift = -0.426 dB
 Peak SAR (extrapolated) = 3.41 W/kg
SAR(1 g) = 2.28 mW/g; SAR(10 g) = 1.69 mW/g
 Maximum value of SAR (measured) = 2.36 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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Date Tested: 08/30/2006

Face-Held SAR - Li-ion Battery - Whip Antenna (P/N: KRA-27M3) - Mid Channel - 425 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: FM UHF
Frequency: 425 MHz; Duty Cycle: 1:1
RF Output Power: 3.90 Watts (Conducted)
7.5V 1700mAh Li-ion Battery Pack (P/N: KNB-33L)
Medium: HSL450 ($\sigma = 0.84 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$)

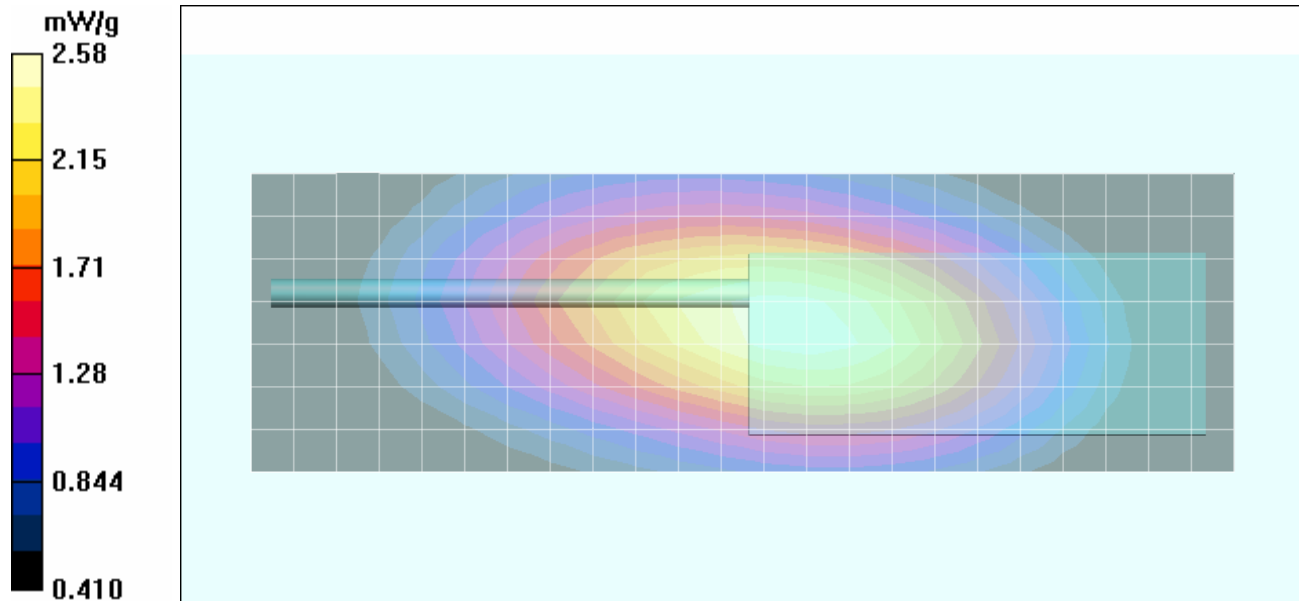
- Probe: ET3DV6 - SN1387; ConvF(7.4, 7.4, 7.4); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171


Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel



Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.53 mW/g

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.3 V/m; Power Drift = -0.277 dB
Peak SAR (extrapolated) = 3.72 W/kg
SAR(1 g) = 2.50 mW/g; SAR(10 g) = 1.85 mW/g
Maximum value of SAR (measured) = 2.58 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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	<u>Report Issue Date</u> September 15, 2006	<u>Description of Test(s)</u> RF Exposure - SAR	<u>RF Exposure Category</u> Occupational/Controlled	

Date Tested: 08/30/2006

Face-Held SAR - NiMH IS Battery - Whip Antenna (P/N: KRA-27M3) - Mid Channel - 425 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: FM UHF
Frequency: 425 MHz; Duty Cycle: 1:1
RF Output Power: 3.90 Watts (Conducted)
7.5V 2500mAh NiMH IS Battery Pack (P/N: KNB-41NC)
Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³)

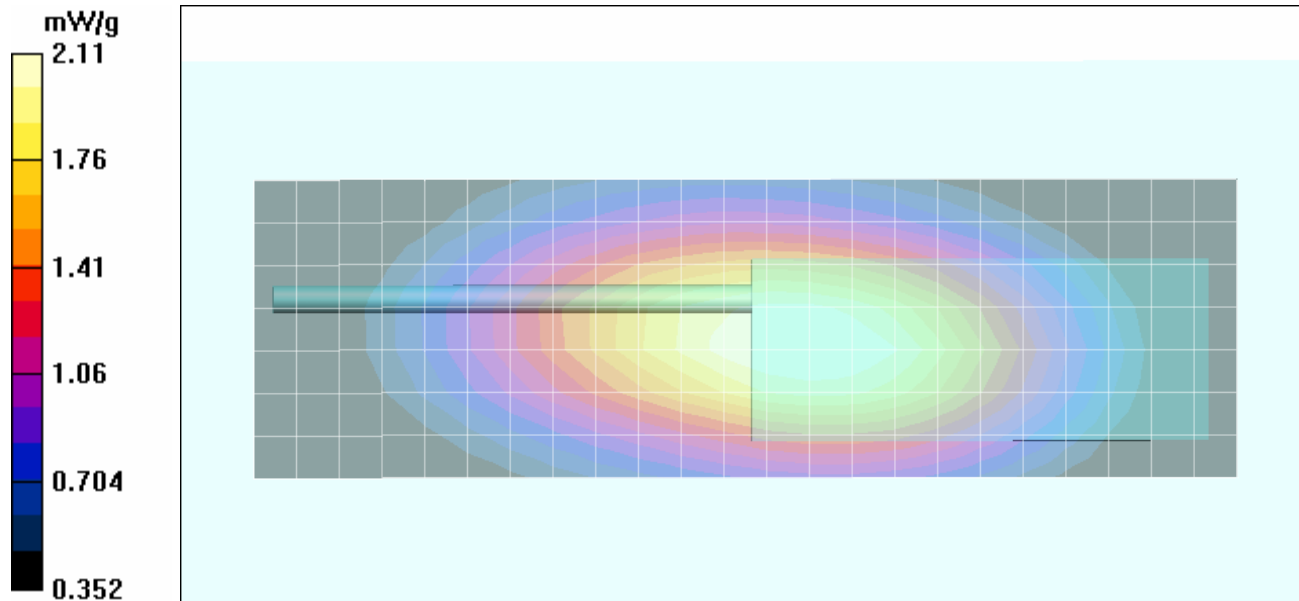
- Probe: ET3DV6 - SN1387; ConvF(7.4, 7.4, 7.4); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171


Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel



Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.17 mW/g

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 50.6 V/m; Power Drift = -0.355 dB
Peak SAR (extrapolated) = 3.04 W/kg
SAR(1 g) = 2.03 mW/g; SAR(10 g) = 1.49 mW/g
Maximum value of SAR (measured) = 2.11 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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Date Tested: 08/30/2006

Face-Held SAR - NiCd Battery - Whip Antenna (P/N: KRA-29) - Mid Channel - 425 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: FM UHF
 Frequency: 425 MHz; Duty Cycle: 1:1
 RF Output Power: 3.90 Watts (Conducted)
 7.5V 1700mAh NiCd Battery Pack (P/N: KNB-31A)
 Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³)

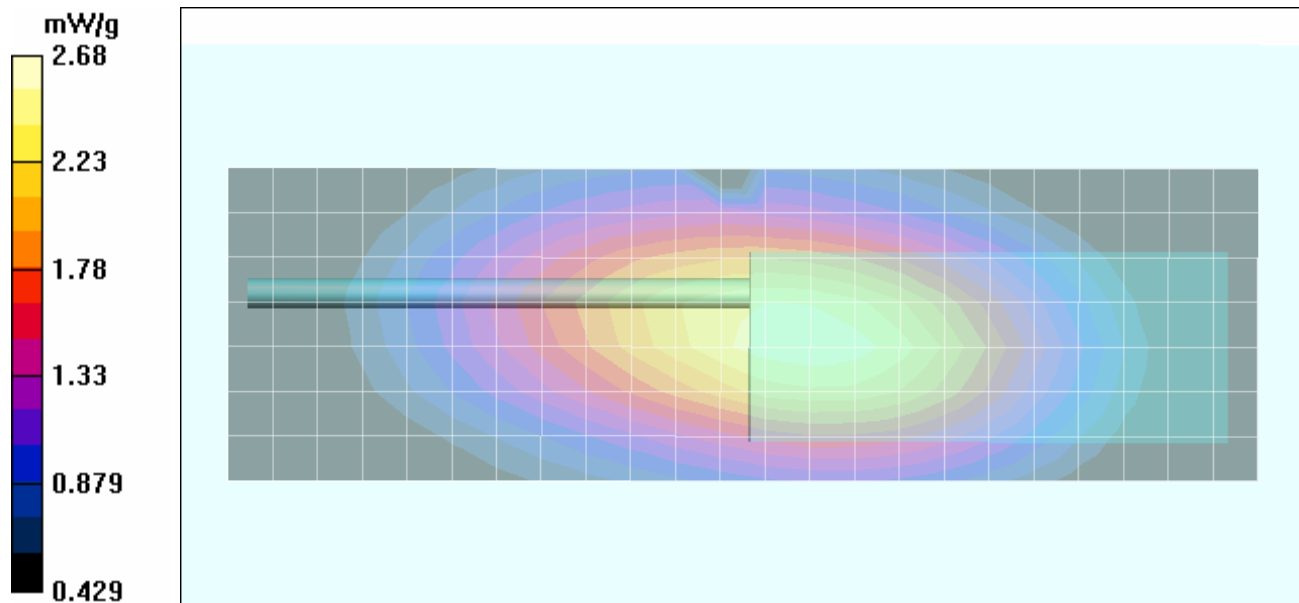
- Probe: ET3DV6 - SN1387; ConvF(7.4, 7.4, 7.4); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171


Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel



Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 2.51 mW/g

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Mid Channel

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 58.0 V/m; Power Drift = -0.526 dB
 Peak SAR (extrapolated) = 3.87 W/kg
SAR(1 g) = 2.58 mW/g; SAR(10 g) = 1.91 mW/g
 Maximum value of SAR (measured) = 2.68 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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Date Tested: 08/30/2006

Face-Held SAR - NiCd Battery - Whip Antenna (P/N: KRA-29) - Low Channel - 380 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: FM UHF

Frequency: 380 MHz; Duty Cycle: 1:1

RF Output Power: 3.86 Watts (Conducted)

7.5V 1700mAh NiCd Battery Pack (P/N: KNB-31A)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1387; ConvF(7.4, 7.4, 7.4); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Low Channel

Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.83 mW/g

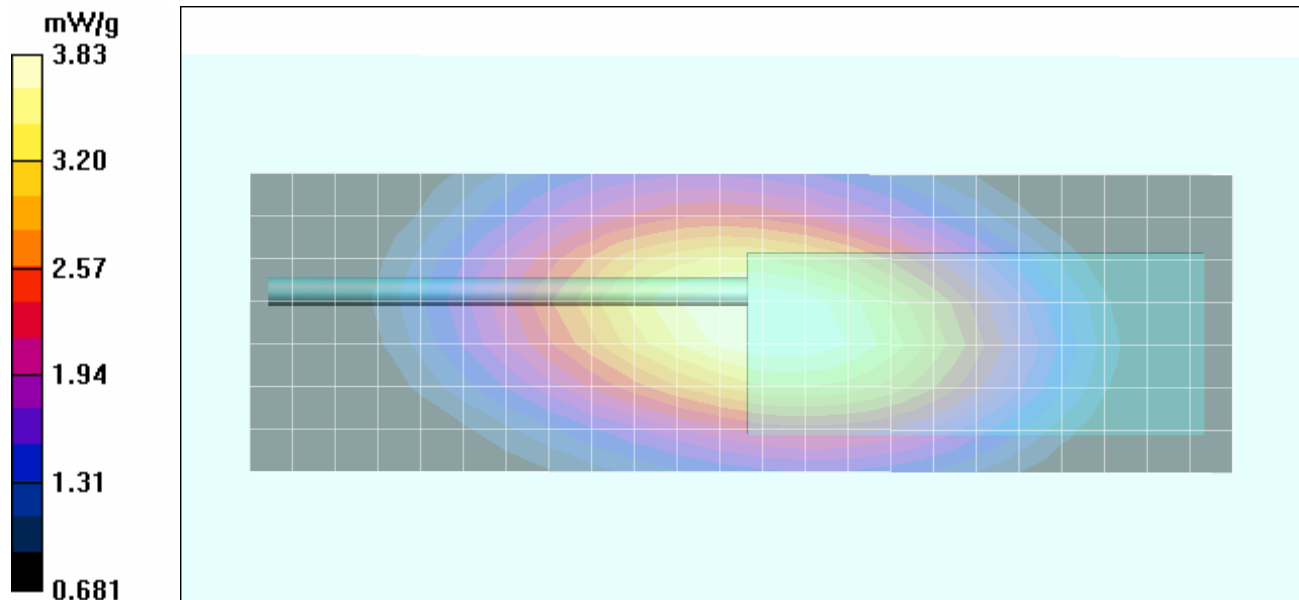
Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - Low Channel


Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 66.6 V/m; Power Drift = -0.0722 dB

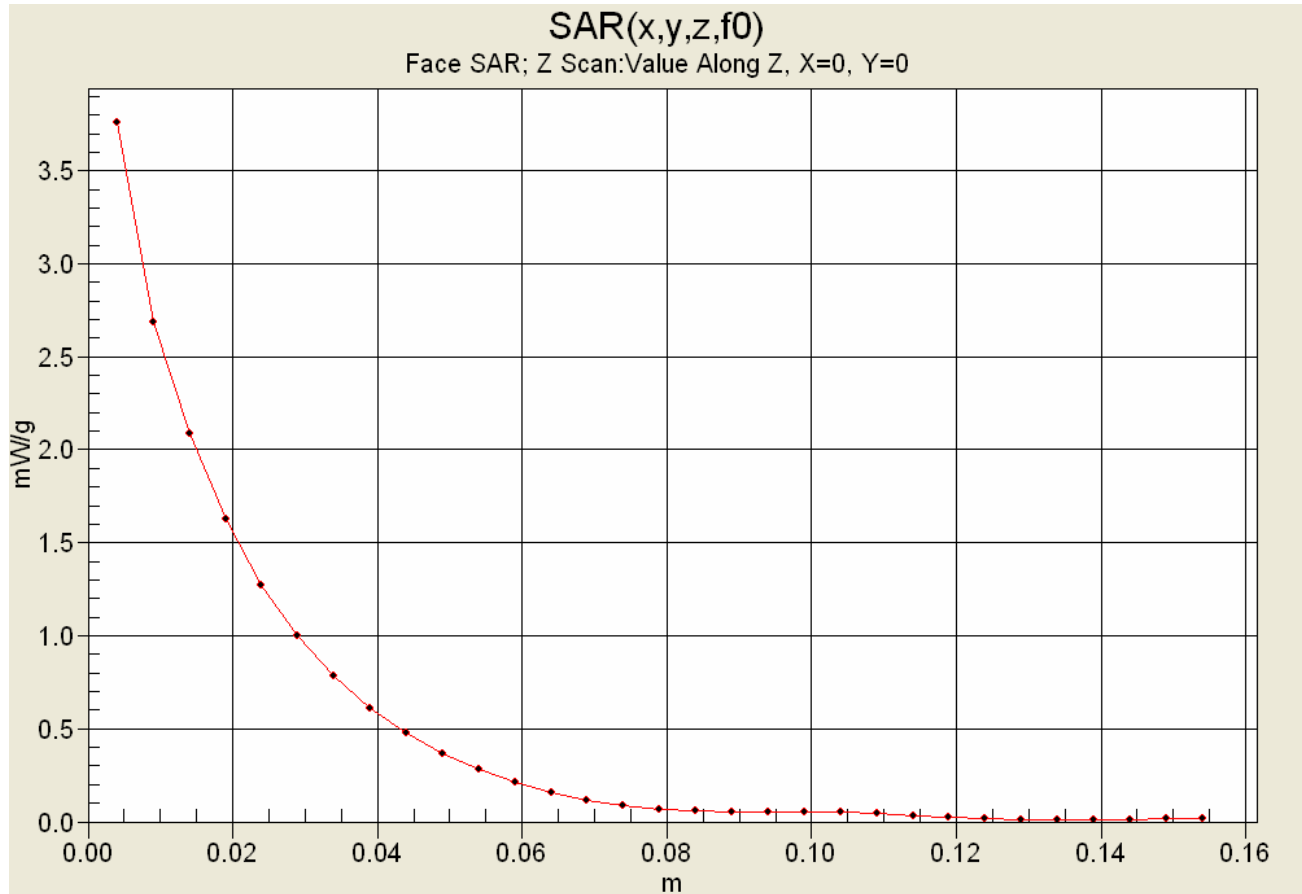
Peak SAR (extrapolated) = 5.53 W/kg



SAR(1 g) = 3.69 mW/g; SAR(10 g) = 2.72 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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Z-Axis Scan



	<u>Date(s) of Evaluation</u> August 29-30, 2006	<u>Test Report Serial No.</u> 082406ALH-T769-S90U	<u>Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
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Date Tested: 08/30/2006

Face-Held SAR - NiCd Battery - Stubby Antenna (P/N: KRA-23M) - High Channel - 470 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: FM UHF

Frequency: 470 MHz; Duty Cycle: 1:1

RF Output Power: 3.85 Watts (Conducted)

7.5V 1700mAh NiCd Battery Pack (P/N: KNB-31A)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1387; ConvF(7.4, 7.4, 7.4); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - High Channel

Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.72 mW/g

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - High Channel

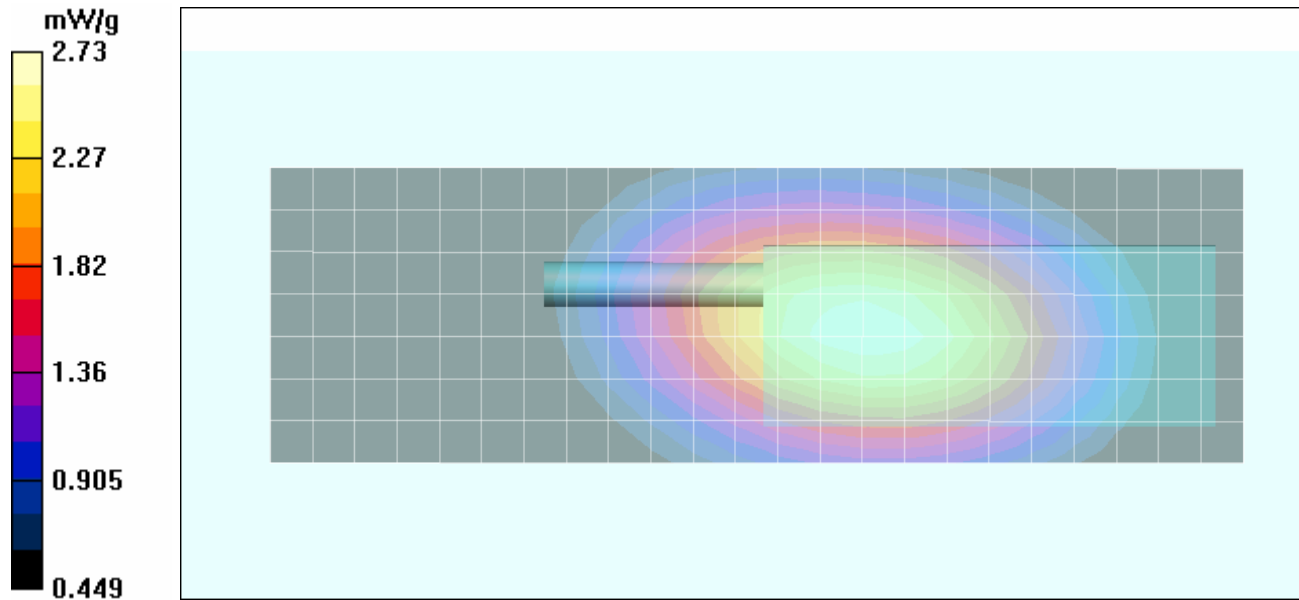
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm


Reference Value = 53.6 V/m; Power Drift = -0.216 dB



Peak SAR (extrapolated) = 4.00 W/kg

SAR(1 g) = 2.63 mW/g; SAR(10 g) = 1.92 mW/g

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



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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Date Tested: 08/30/2006

Face-Held SAR - NiCd Battery - Whip Antenna (P/N: KRA-27M) - High Channel - 470 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: FM UHF

Frequency: 470 MHz; Duty Cycle: 1:1

RF Output Power: 3.85 Watts (Conducted)

7.5V 1700mAh NiCd Battery Pack (P/N: KNB-31A)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1387; ConvF(7.4, 7.4, 7.4); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - High Channel

Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.51 mW/g

Face-Held SAR - 2.5 cm Separation Distance to Planar Phantom - High Channel

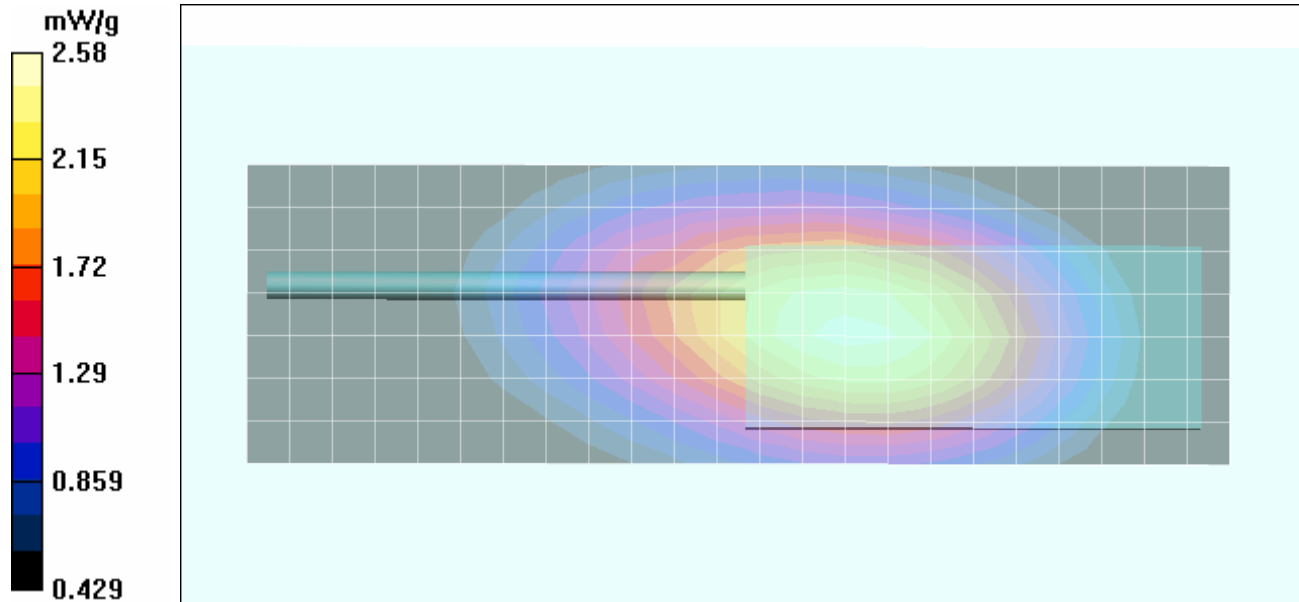
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm


Reference Value = 51.6 V/m; Power Drift = -0.172 dB



Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.82 mW/g

Maximum value of SAR (measured) = 2.58 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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Date Tested: 08/29/2006

Body-Worn SAR - NiCd Battery - Whip Antenna (P/N: KRA-27M3) - Mid Channel - 425 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Body-Worn Accessory: Belt-Clip (P/N: J29-0710-XX); Audio Accessory: Speaker-Microphone (P/N: KMC-25)

Ambient Temp: 23.7°C; Fluid Temp: 23.0°C; Barometric Pressure: 101.5 kPa; Humidity: 33%

Communication System: FM UHF
Frequency: 425 MHz; Duty Cycle: 1:1
RF Output Power: 3.90 Watts (Conducted)
7.5V 1700mAh NiCd Battery Pack (P/N: KNB-31A)
Medium: M450 ($\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$)

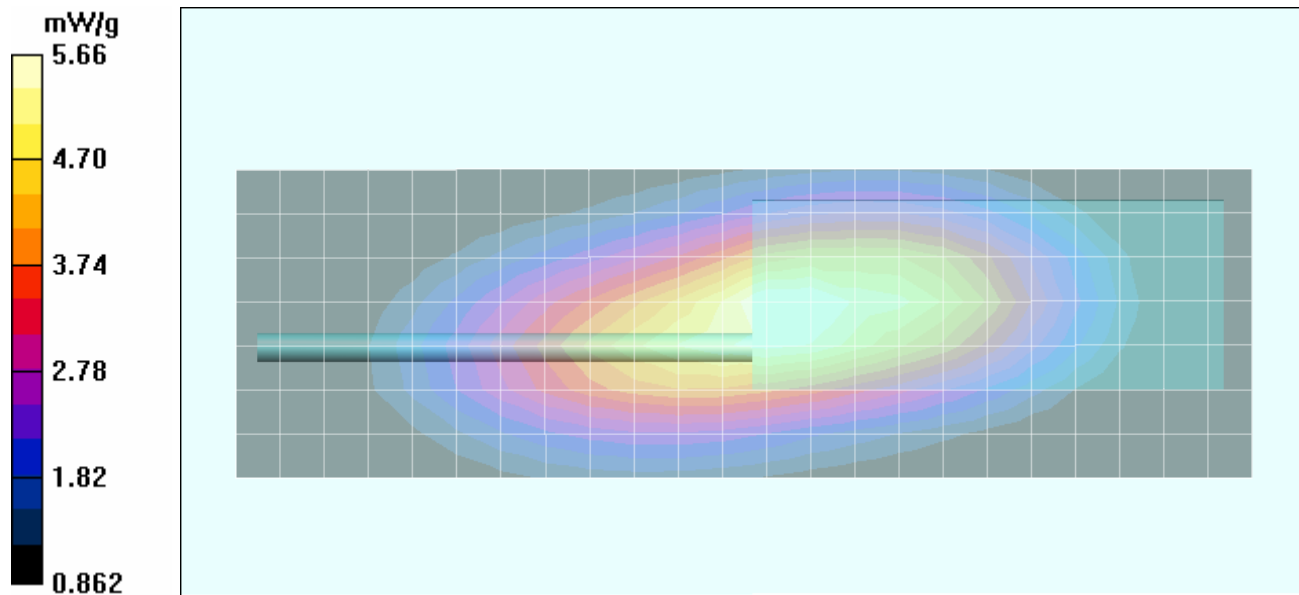
- Probe: ET3DV6 - SN1387; ConvF(7.3, 7.3, 7.3); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel



Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 5.79 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 77.9 V/m; Power Drift = -0.390 dB
Peak SAR (extrapolated) = 8.76 W/kg
SAR(1 g) = 5.46 mW/g; SAR(10 g) = 3.85 mW/g
Maximum value of SAR (measured) = 5.66 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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	<u>Report Issue Date</u> September 15, 2006	<u>Description of Test(s)</u> RF Exposure - SAR	<u>RF Exposure Category</u> Occupational/Controlled	

Date Tested: 08/29/2006

Body-Worn SAR - NiMH Battery - Whip Antenna (P/N: KRA-27M3) - Mid Channel - 425 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Body-Worn Accessory: Belt-Clip (P/N: J29-0710-XX); Audio Accessory: Speaker-Microphone (P/N: KMC-25)

Ambient Temp: 23.7°C; Fluid Temp: 23.0°C; Barometric Pressure: 101.5 kPa; Humidity: 33%

Communication System: FM UHF

Frequency: 425 MHz; Duty Cycle: 1:1

RF Output Power: 3.90 Watts (Conducted)

7.5V 2500mAh NiMH Battery Pack (P/N: KNB-32N)

Medium: M450 ($\sigma = 0.91$ mho/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1387; ConvF(7.3, 7.3, 7.3); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 6.59 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

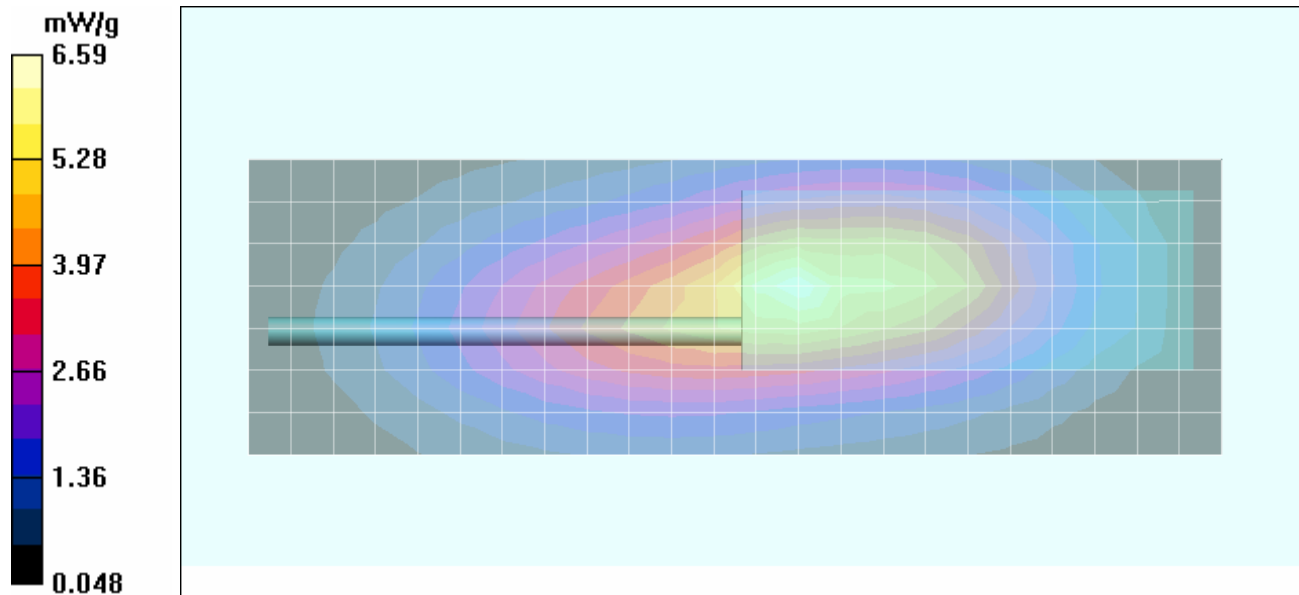
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm


Reference Value = 72.6 V/m; Power Drift = -0.282 dB



Peak SAR (extrapolated) = 8.12 W/kg

SAR(1 g) = 5.00 mW/g; SAR(10 g) = 3.5 mW/g

Maximum value of SAR (measured) = 5.25 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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	<u>Date(s) of Evaluation</u> August 29-30, 2006	<u>Test Report Serial No.</u> 082406ALH-T769-S90U	<u>Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Report Issue Date</u> September 15, 2006	<u>Description of Test(s)</u> RF Exposure - SAR	<u>RF Exposure Category</u> Occupational/Controlled	

Date Tested: 08/29/2006

Body-Worn SAR - Li-ion Battery - Whip Antenna (P/N: KRA-27M3) - Mid Channel - 425 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Body-Worn Accessory: Belt-Clip (P/N: J29-0710-XX); Audio Accessory: Speaker-Microphone (P/N: KMC-25)

Ambient Temp: 23.7°C; Fluid Temp: 23.0°C; Barometric Pressure: 101.5 kPa; Humidity: 33%

Communication System: FM UHF

Frequency: 425 MHz; Duty Cycle: 1:1

RF Output Power: 3.90 Watts (Conducted)

7.5V 1700mAh Li-ion Battery Pack (P/N: KNB-33L)

Medium: M450 ($\sigma = 0.91$ mho/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1387; ConvF(7.3, 7.3, 7.3); Calibrated: 16/03/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn353; Calibrated: 21/06/2006

- Phantom: Side Planar; Type: Plexiglas; Serial: 161

- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.73 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 65.7 V/m; Power Drift = -0.400 dB

Peak SAR (extrapolated) = 7.44 W/kg

SAR(1 g) = 4.55 mW/g; SAR(10 g) = 3.26 mW/g

Maximum value of SAR (measured) = 4.80 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

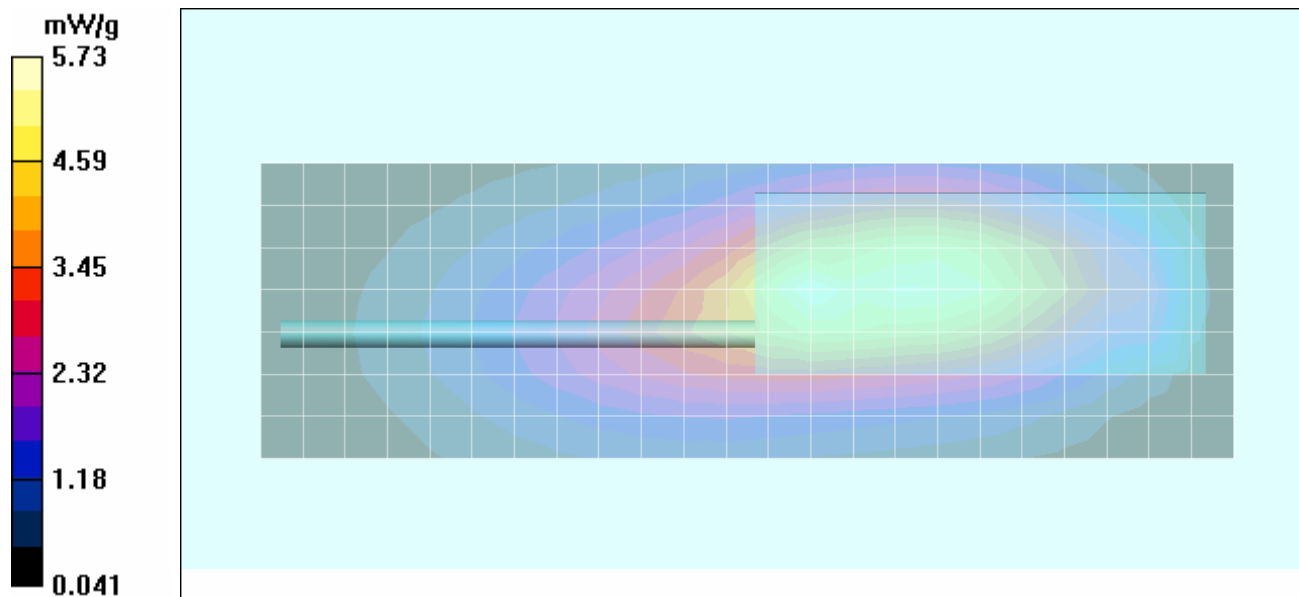
Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 65.7 V/m; Power Drift = -0.400 dB



Peak SAR (extrapolated) = 7.23 W/kg

SAR(1 g) = 4.76 mW/g; SAR(10 g) = 3.46 mW/g

Maximum value of SAR (measured) = 4.94 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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	<u>Report Issue Date</u> September 15, 2006	<u>Description of Test(s)</u> RF Exposure - SAR	<u>RF Exposure Category</u> Occupational/Controlled	

Date Tested: 08/29/2006

Body-Worn SAR - NiMH IS Battery - Whip Antenna (P/N: KRA-27M3) - Mid Channel - 425 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Body-Worn Accessory: Belt-Clip (P/N: J29-0710-XX); Audio Accessory: Speaker-Microphone (P/N: KMC-25)

Ambient Temp: 23.7°C; Fluid Temp: 23.0°C; Barometric Pressure: 101.5 kPa; Humidity: 33%

Communication System: FM UHF

Frequency: 425 MHz; Duty Cycle: 1:1

RF Output Power: 3.90 Watts (Conducted)

7.5V 2500mAh NiMH IS Battery Pack (P/N: KNB-41NC)

Medium: M450 ($\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$)

- Probe: ET3DV6 - SN1387; ConvF(7.3, 7.3, 7.3); Calibrated: 16/03/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn353; Calibrated: 21/06/2006

- Phantom: Side Planar; Type: Plexiglas; Serial: 161

- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.75 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 71.5 V/m; Power Drift = -0.570 dB

Peak SAR (extrapolated) = 7.29 W/kg

SAR(1 g) = 4.53 mW/g; SAR(10 g) = 3.2 mW/g

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

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

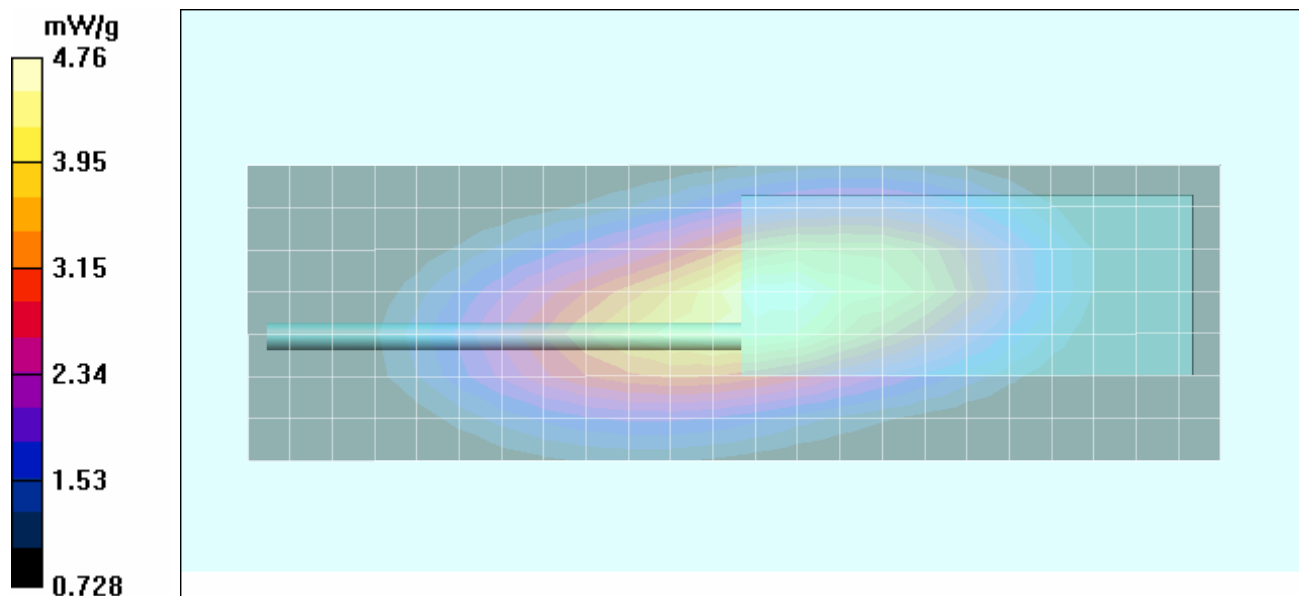
Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm


Reference Value = 71.5 V/m; Power Drift = -0.570 dB



Peak SAR (extrapolated) = 5.46 W/kg

SAR(1 g) = 3.68 mW/g; SAR(10 g) = 2.71 mW/g

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



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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	<u>Report Issue Date</u> September 15, 2006	<u>Description of Test(s)</u> RF Exposure - SAR	<u>RF Exposure Category</u> Occupational/Controlled	

Date Tested: 08/29/2006

Body-Worn SAR - NiCd Battery - Whip Antenna (P/N: KRA-29) - Mid Channel - 425 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Body-Worn Accessory: Belt-Clip (P/N: J29-0710-XX); Audio Accessory: Speaker-Microphone (P/N: KMC-25)

Ambient Temp: 23.7°C; Fluid Temp: 23.0°C; Barometric Pressure: 101.5 kPa; Humidity: 33%

Communication System: FM UHF

Frequency: 425 MHz; Duty Cycle: 1:1

RF Output Power: 3.90 Watts (Conducted)

7.5V 1700mAh NiCd Battery Pack (P/N: KNB-31A)

Medium: M450 ($\sigma = 0.91$ mho/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1387; ConvF(7.3, 7.3, 7.3); Calibrated: 16/03/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn353; Calibrated: 21/06/2006

- Phantom: Side Planar; Type: Plexiglas; Serial: 161

- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 7.15 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 78.3 V/m; Power Drift = -0.509 dB

Peak SAR (extrapolated) = 8.73 W/kg

SAR(1 g) = 5.47 mW/g; SAR(10 g) = 3.87 mW/g

Maximum value of SAR (measured) = 5.68 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Mid Channel

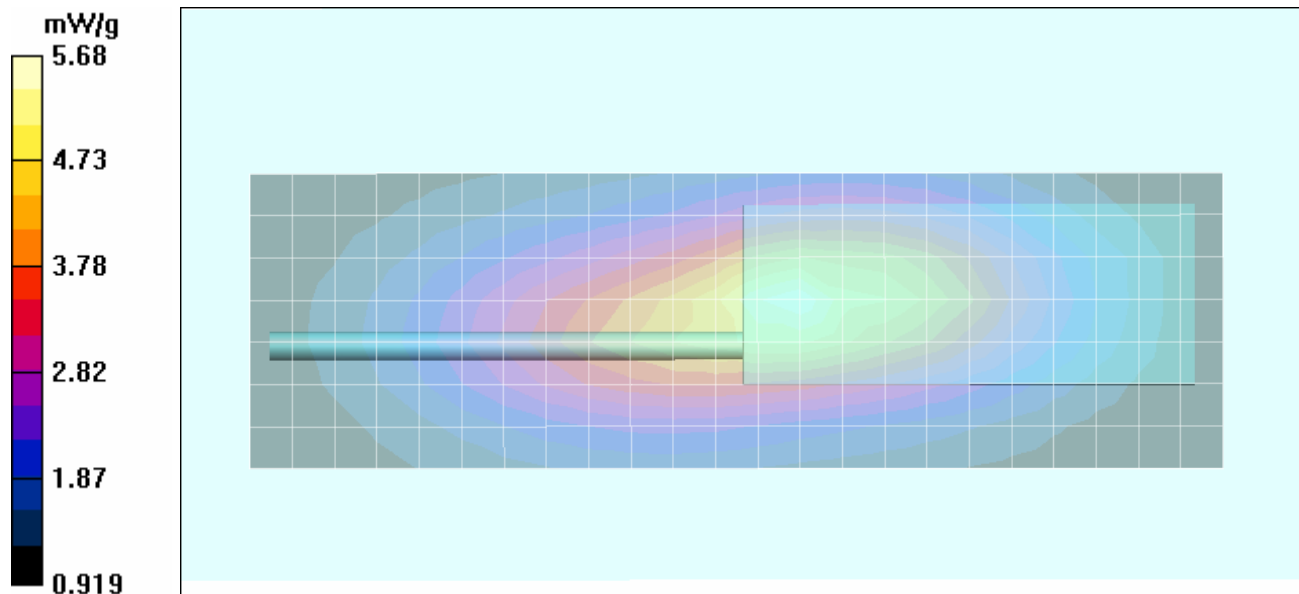
Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm


Reference Value = 78.3 V/m; Power Drift = -0.509 dB

Peak SAR (extrapolated) = 6.82 W/kg

SAR(1 g) = 4.62 mW/g; SAR(10 g) = 3.4 mW/g

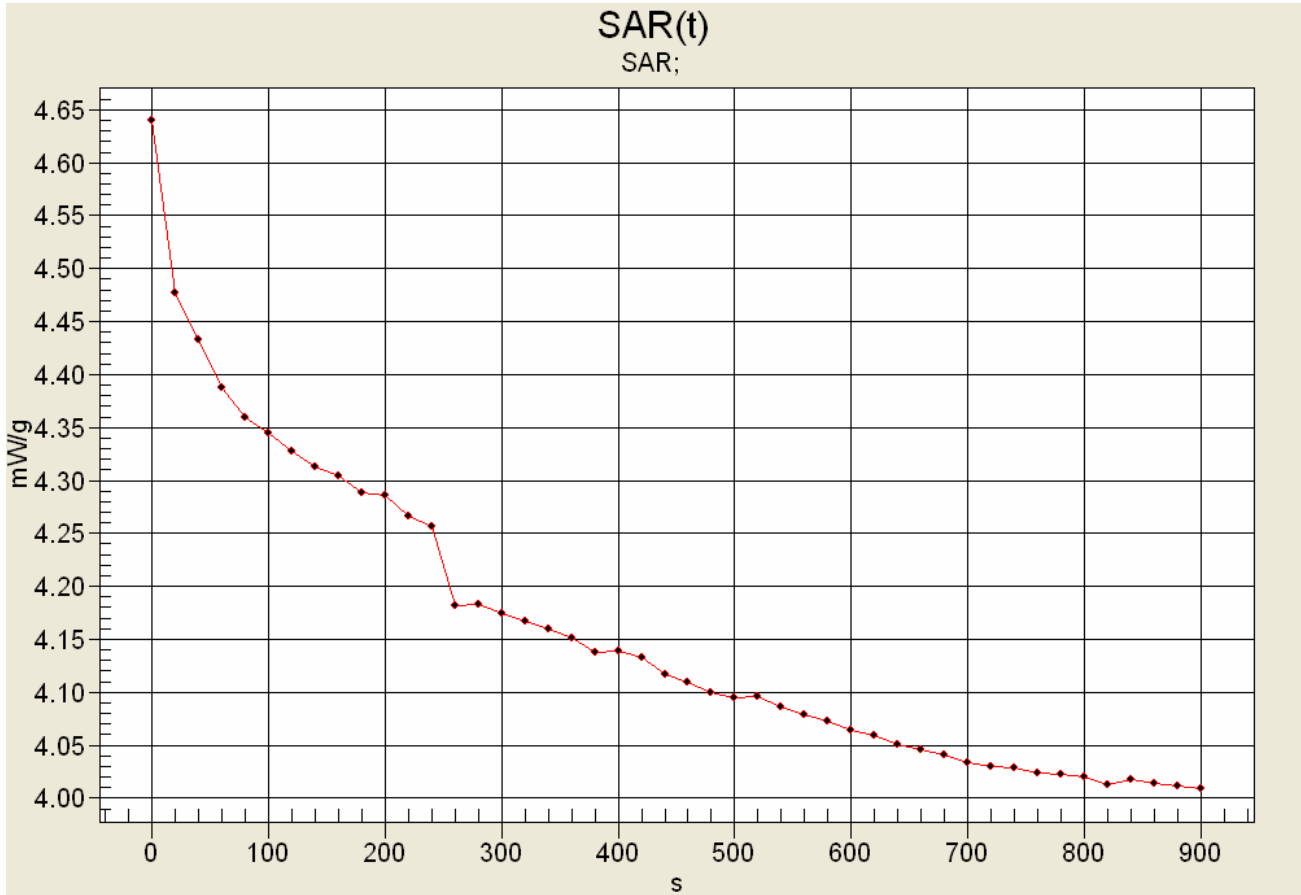
Maximum value of SAR (measured) = 4.81 mW/g





Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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SAR-versus-Time Power Droop Evaluation

Body-Worn SAR
Ni-Cd Battery (P/N: KNB-31A)
Whip Antenna (P/N: KRA-29)
Mid Channel (425 MHz)



Max SAR: 4.63974 mW/g
 Min. SAR: 4.00929 mW/g (-0.634 dB)
 SAR after 340s: 4.15939 mW/g (-0.475 dB)
 (340s = Zoom Scan Duration)
 (900s = Area Scan Duration)

	<u>Date(s) of Evaluation</u> August 29-30, 2006	<u>Test Report Serial No.</u> 082406ALH-T769-S90U	<u>Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Report Issue Date</u> September 15, 2006	<u>Description of Test(s)</u> RF Exposure - SAR	<u>RF Exposure Category</u> Occupational/Controlled	

Date Tested: 08/29/2006

Body-Worn SAR - NiCd Battery - Whip Antenna (P/N: KRA-29) - Low Channel - 380 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Body-Worn Accessory: Belt-Clip (P/N: J29-0710-XX); Audio Accessory: Speaker-Microphone (P/N: KMC-25)

Ambient Temp: 23.7°C; Fluid Temp: 23.0°C; Barometric Pressure: 101.5 kPa; Humidity: 33%

Communication System: FM UHF

Frequency: 380 MHz; Duty Cycle: 1:1

RF Output Power: 3.86 Watts (Conducted)

7.5V 1700mAh NiCd Battery Pack (P/N: KNB-31A)

Medium: M450 ($\sigma = 0.91$ mho/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1387; ConvF(7.3, 7.3, 7.3); Calibrated: 16/03/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn353; Calibrated: 21/06/2006

- Phantom: Side Planar; Type: Plexiglas; Serial: 161

- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Low Channel

Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 7.80 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Low Channel

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 85.9 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 6.67 mW/g; SAR(10 g) = 4.78 mW/g

Maximum value of SAR (measured) = 6.96 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - Low Channel

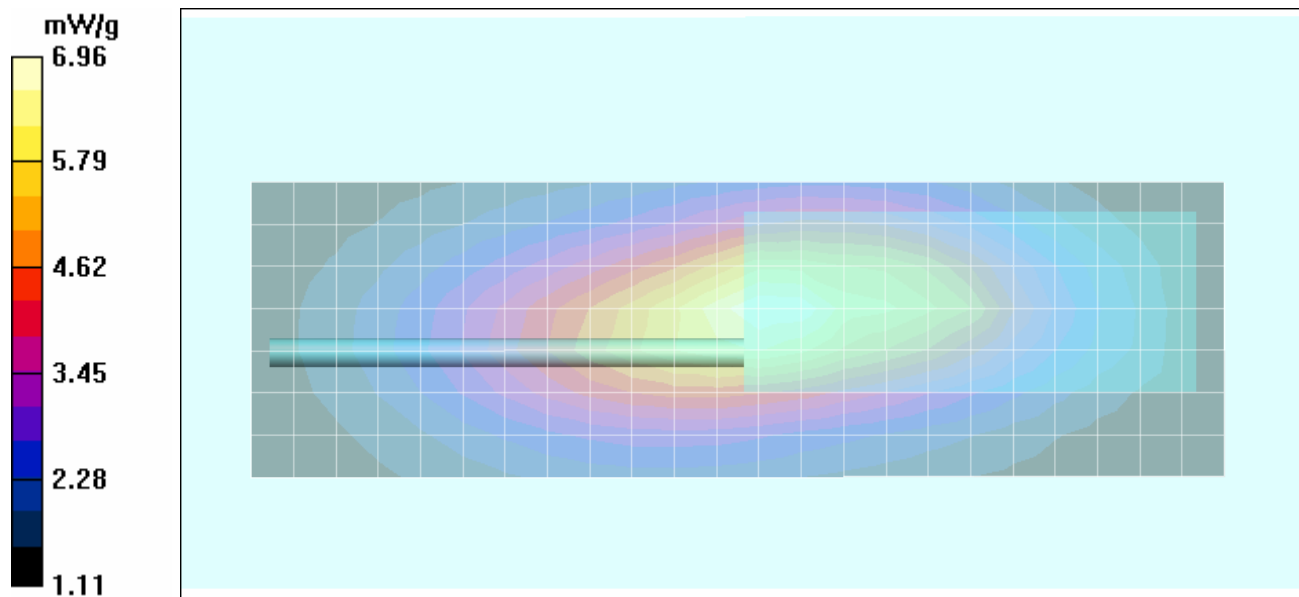
Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm


Reference Value = 85.9 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 8.07 W/kg

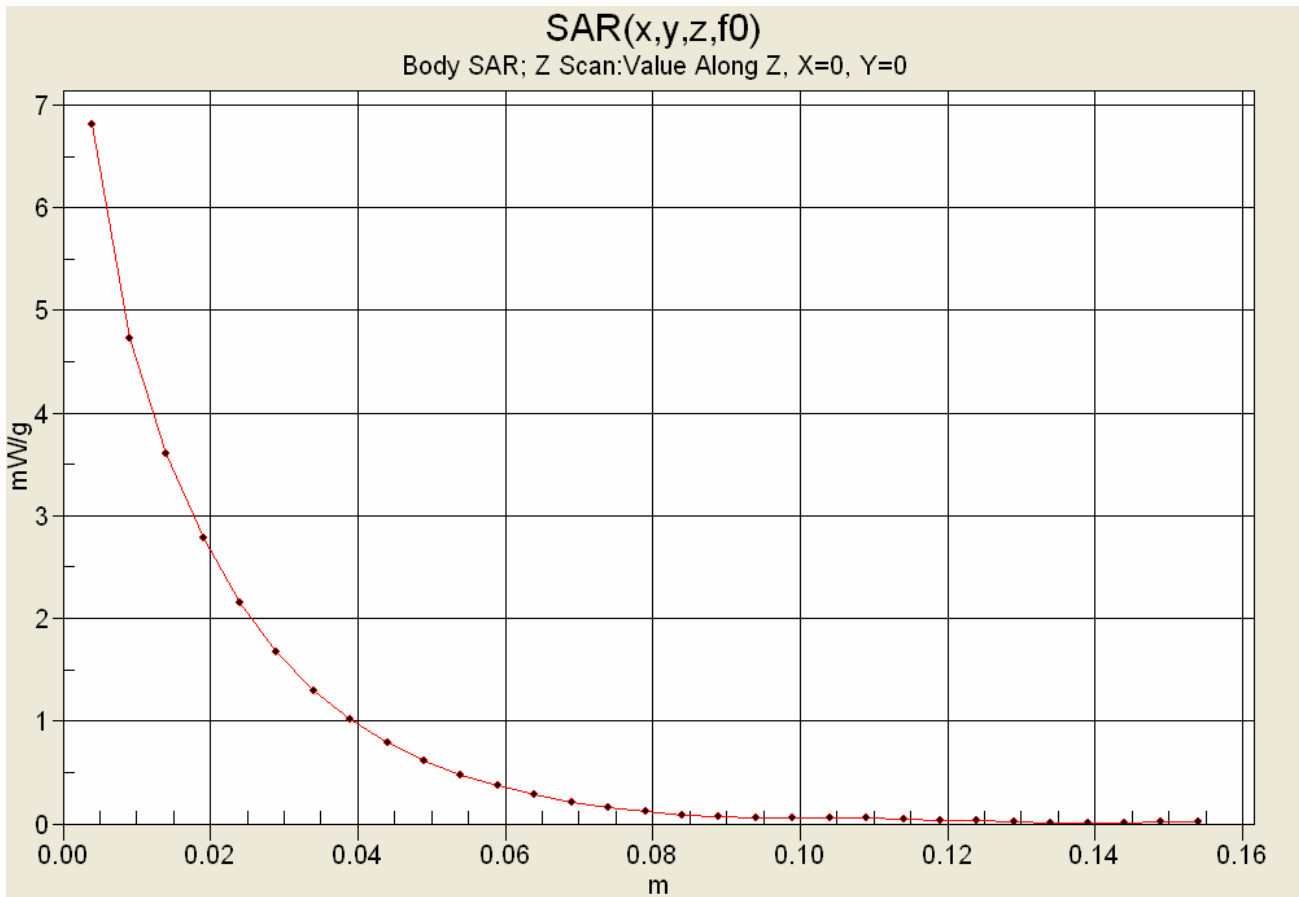
SAR(1 g) = 5.31 mW/g; SAR(10 g) = 3.85 mW/g



Maximum value of SAR (measured) = 5.71 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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Z-Axis Scan



	<u>Date(s) of Evaluation</u> August 29-30, 2006	<u>Test Report Serial No.</u> 082406ALH-T769-S90U	<u>Report Revision No.</u> Revision 1.0	 Certificate No. 2470.01
	<u>Report Issue Date</u> September 15, 2006	<u>Description of Test(s)</u> RF Exposure - SAR	<u>RF Exposure Category</u> Occupational/Controlled	

Date Tested: 08/29/2006

Body-Worn SAR - NiCd Battery - Stubby Antenna (P/N: KRA-23M) - High Channel - 470 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Body-Worn Accessory: Belt-Clip (P/N: J29-0710-XX); Audio Accessory: Speaker-Microphone (P/N: KMC-25)

Ambient Temp: 23.7°C; Fluid Temp: 23.0°C; Barometric Pressure: 101.5 kPa; Humidity: 33%

Communication System: FM UHF

Frequency: 470 MHz; Duty Cycle: 1:1

RF Output Power: 3.85 Watts (Conducted)

7.5V 1700mAh NiCd Battery Pack (P/N: KNB-31A)

Medium: M450 ($\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$)

- Probe: ET3DV6 - SN1387; ConvF(7.3, 7.3, 7.3); Calibrated: 16/03/2006

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn353; Calibrated: 21/06/2006

- Phantom: Side Planar; Type: Plexiglas; Serial: 161

- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - High Channel

Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.46 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - High Channel

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 67.0 V/m; Power Drift = -0.263 dB

Peak SAR (extrapolated) = 7.66 W/kg

SAR(1 g) = 4.77 mW/g; SAR(10 g) = 3.41 mW/g

Maximum value of SAR (measured) = 4.95 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - High Channel

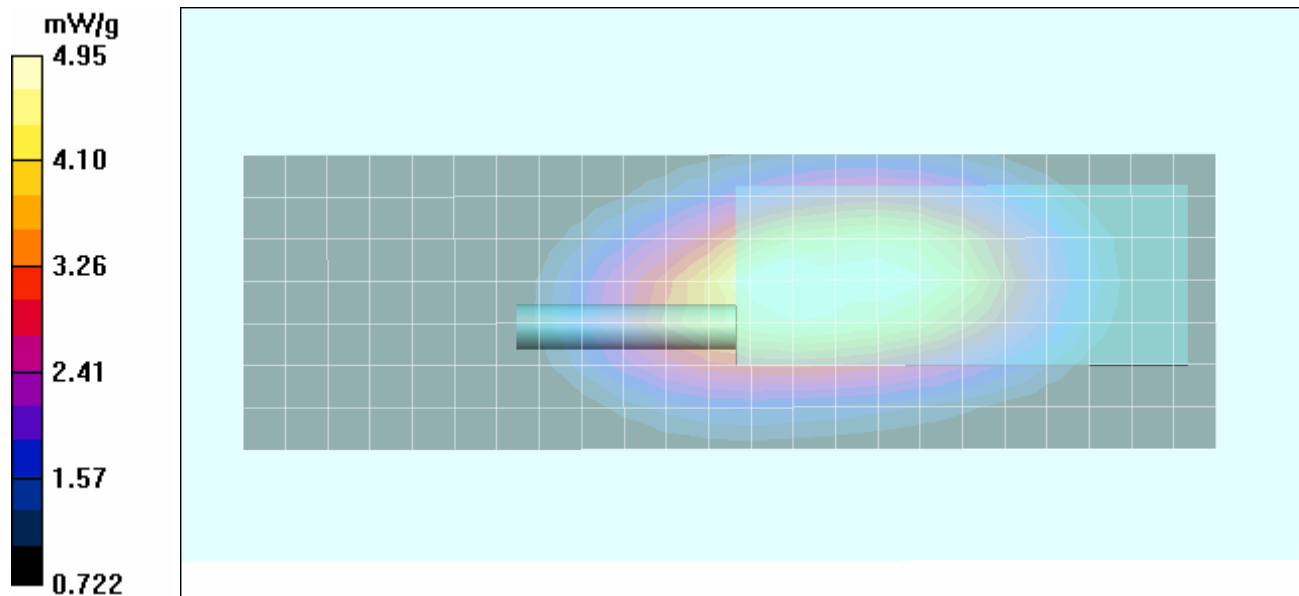
Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm


Reference Value = 67.0 V/m; Power Drift = -0.263 dB



Peak SAR (extrapolated) = 6.94 W/kg

SAR(1 g) = 4.63 mW/g; SAR(10 g) = 3.39 mW/g

Maximum value of SAR (measured) = 4.81 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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	<u>Report Issue Date</u> September 15, 2006	<u>Description of Test(s)</u> RF Exposure - SAR	<u>RF Exposure Category</u> Occupational/Controlled	

Date Tested: 08/29/2006

Body-Worn SAR - NiCd Battery - Whip Antenna (P/N: KRA-27M) - High Channel - 470 MHz

DUT: Kenwood; Model: TK-5310-K6; Type: Portable FM UHF PTT Radio Transceiver; Serial: None

Body-Worn Accessory: Belt-Clip (P/N: J29-0710-XX); Audio Accessory: Speaker-Microphone (P/N: KMC-25)

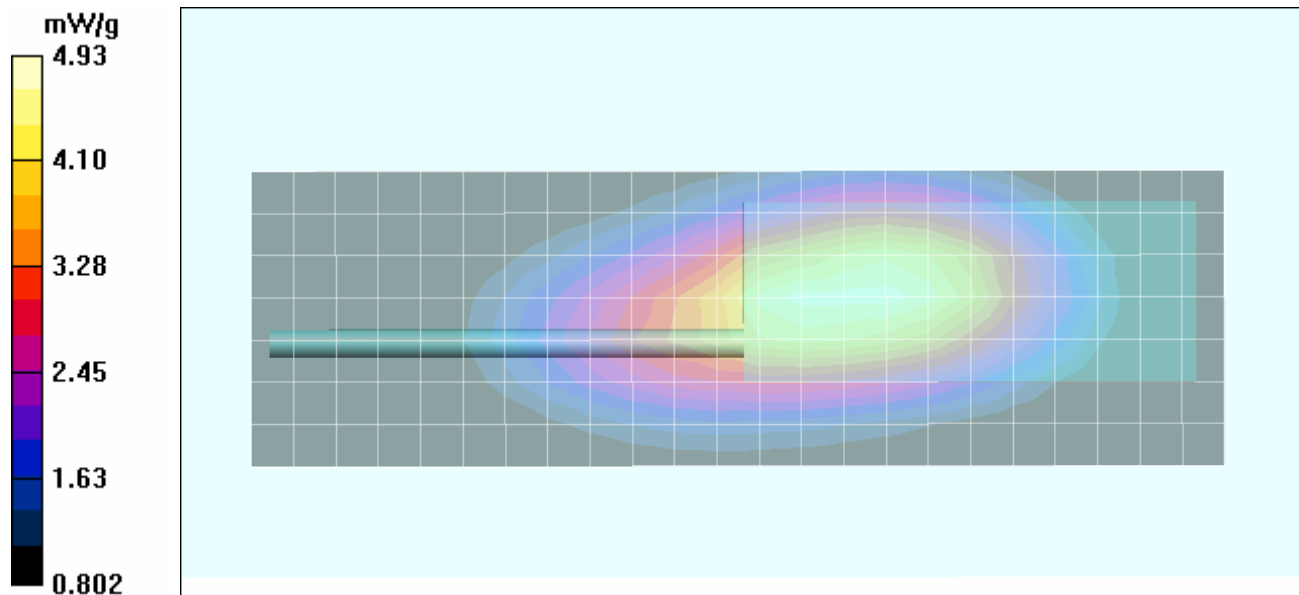
Ambient Temp: 23.7°C; Fluid Temp: 23.0°C; Barometric Pressure: 101.5 kPa; Humidity: 33%

Communication System: FM UHF
Frequency: 470 MHz; Duty Cycle: 1:1
RF Output Power: 3.85 Watts (Conducted)
7.5V 1700mAh NiCd Battery Pack (P/N: KNB-31A)
Medium: M450 ($\sigma = 0.91$ mho/m; $\epsilon_r = 55.3$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1387; ConvF(7.3, 7.3, 7.3); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 21/06/2006
- Phantom: Side Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - High Channel Area Scan (8x24x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 4.81 mW/g

Body-Worn SAR - 2.0 cm Belt-Clip Separation Distance to Planar Phantom - High Channel Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 69.5 V/m; Power Drift = -0.181 dB
Peak SAR (extrapolated) = 7.10 W/kg
SAR(1 g) = 4.72 mW/g; SAR(10 g) = 3.43 mW/g
Maximum value of SAR (measured) = 4.93 mW/g



Company:	Kenwood USA Corporation	FCC ID:	ALH39913120	IC ID:	282D-39913120	
Model(s):	TK-5310-K4, -K5, -K6	Type:	Portable FM UHF PTT Radio Transceiver	380 - 470 MHz		
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