

APPENDIX A - SAR MEASUREMENT DATA

Date Tested: 10/15/04

Face-Held SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Ambient Temp: 24.2 °C; Fluid Temp: 23.4 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.12 dBm (Conducted)

9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.5, 7.5, 7.5); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

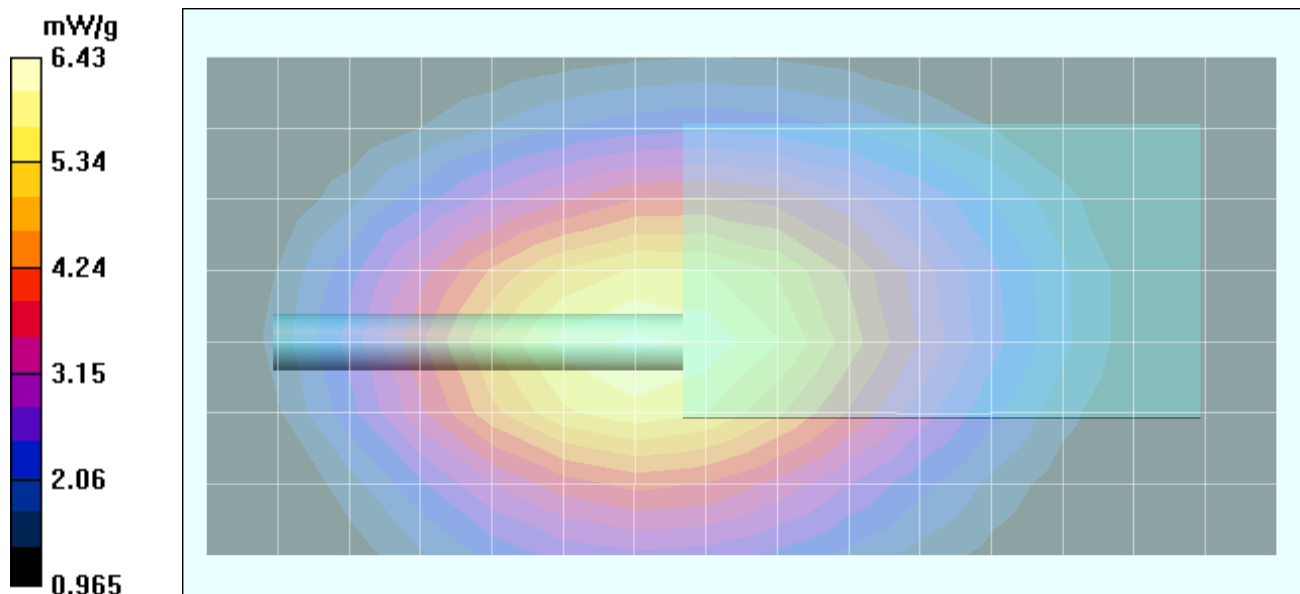
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 87 V/m; Power Drift = -0.695 dB

Peak SAR (extrapolated) = 9.31 W/kg

SAR(1 g) = 6.15 mW/g; SAR(10 g) = 4.41 mW/g



Date Tested: 10/15/04

Face-Held SAR - Li-ion Battery (P/N: KNB-35L) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Ambient Temp: 24.2 °C; Fluid Temp: 23.4 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.37 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.5, 7.5, 7.5); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

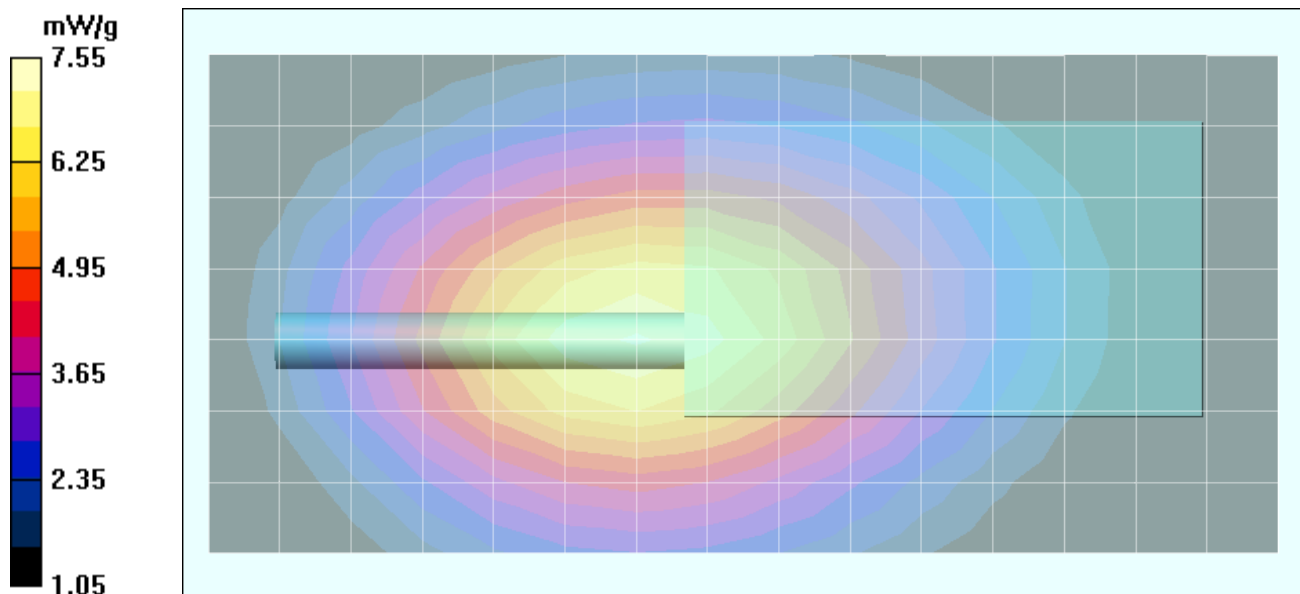
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

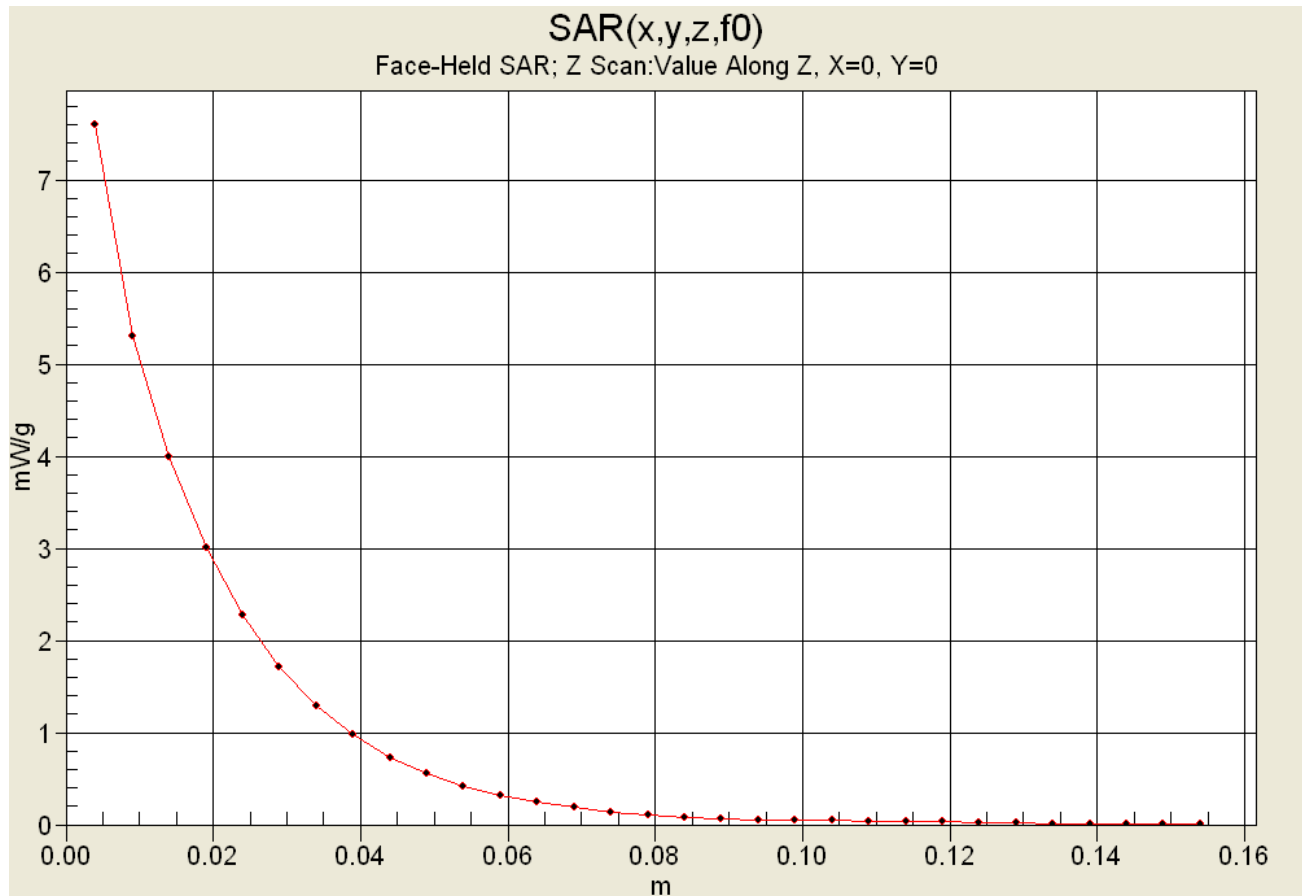
Reference Value = 89.3 V/m; Power Drift = 0.0907 dB

Peak SAR (extrapolated) = 10.9 W/kg

SAR(1 g) = 7.26 mW/g; SAR(10 g) = 5.21 mW/g



Z-Axis Scan



Date Tested: 10/15/04

Face-Held SAR - Li-ion Battery (P/N: KNB-24L) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Ambient Temp: 24.2 °C; Fluid Temp: 23.4 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.21 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.5, 7.5, 7.5); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

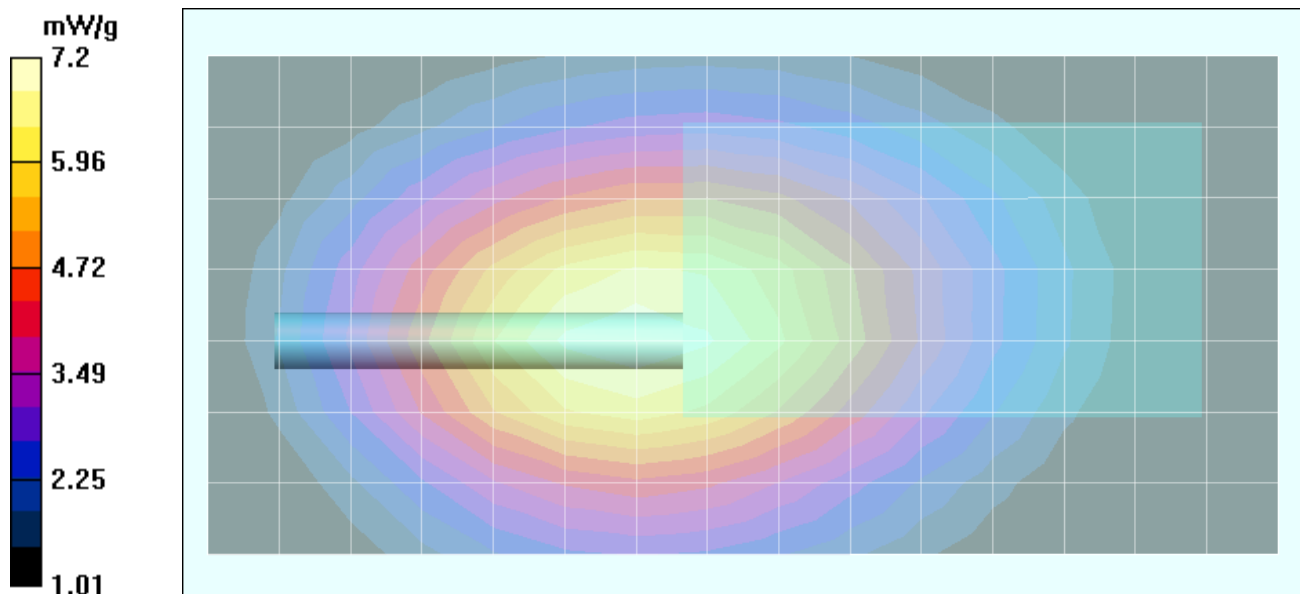
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 88.2 V/m; Power Drift = -0.0717 dB

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 6.86 mW/g; SAR(10 g) = 4.91 mW/g



Date Tested: 10/15/04

Face-Held SAR - NiCd Battery (P/N: KNB-25A) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Ambient Temp: 24.2 °C; Fluid Temp: 23.4 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.33 dBm (Conducted)

7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.5, 7.5, 7.5); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

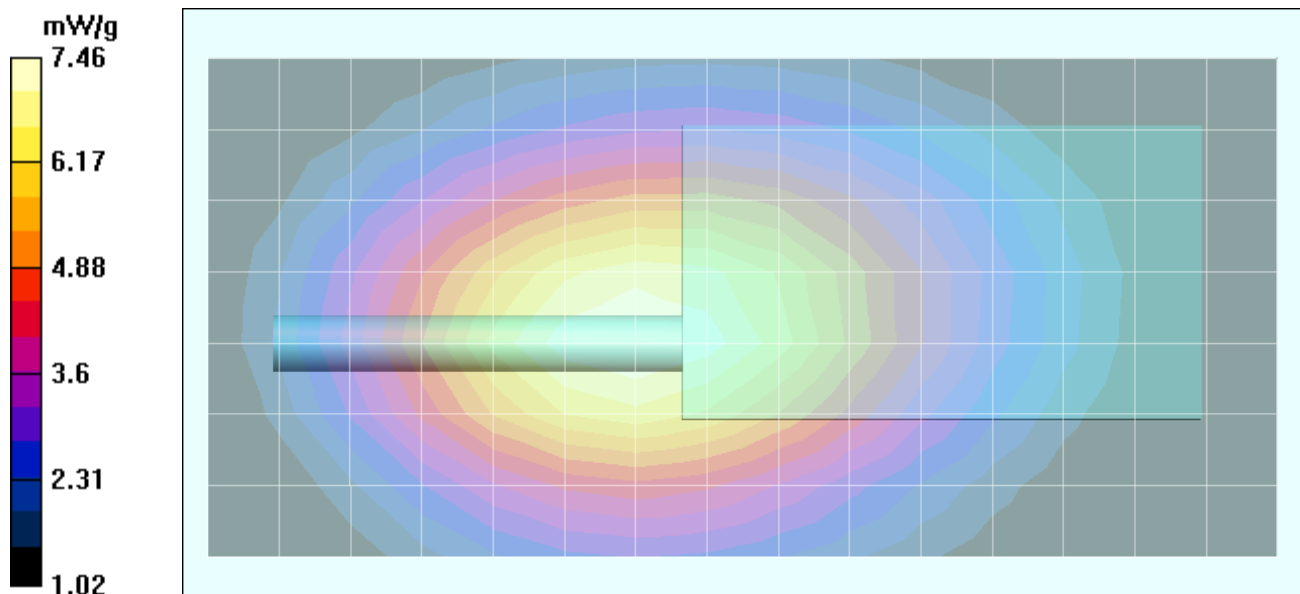
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 89.8 V/m; Power Drift = 0.0659 dB

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 7.14 mW/g; SAR(10 g) = 5.12 mW/g



Date Tested: 10/15/04

Face-Held SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Ambient Temp: 24.2 °C; Fluid Temp: 23.4 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.28 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.5, 7.5, 7.5); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

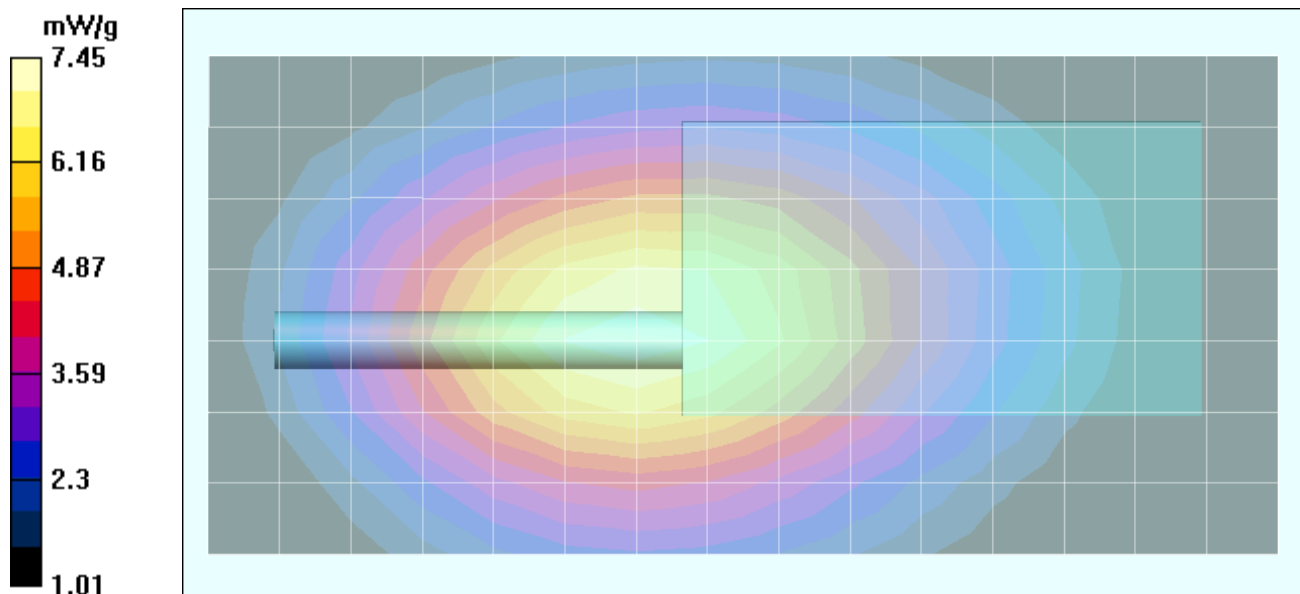
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 90.1 V/m; Power Drift = 0.0642 dB

Peak SAR (extrapolated) = 10.9 W/kg

SAR(1 g) = 7.17 mW/g; SAR(10 g) = 5.13 mW/g



Date Tested: 10/15/04

Face-Held SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Ambient Temp: 24.2 °C; Fluid Temp: 23.4 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.16 dBm (Conducted)

9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.5, 7.5, 7.5); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

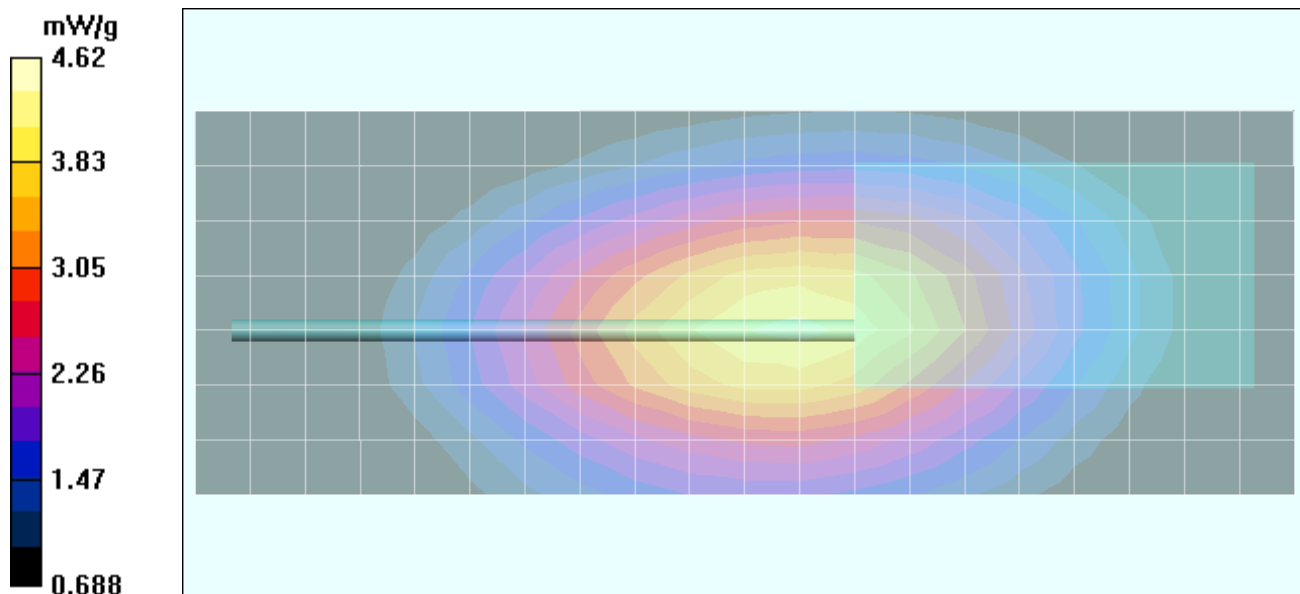
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 78.9 V/m; Power Drift = -0.995 dB

Peak SAR (extrapolated) = 6.67 W/kg

SAR(1 g) = 4.42 mW/g; SAR(10 g) = 3.16 mW/g



Date Tested: 10/15/04

Face-Held SAR - Li-ion Battery (P/N: KNB-35L) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Ambient Temp: 24.2 °C; Fluid Temp: 23.4 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.31 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.5, 7.5, 7.5); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

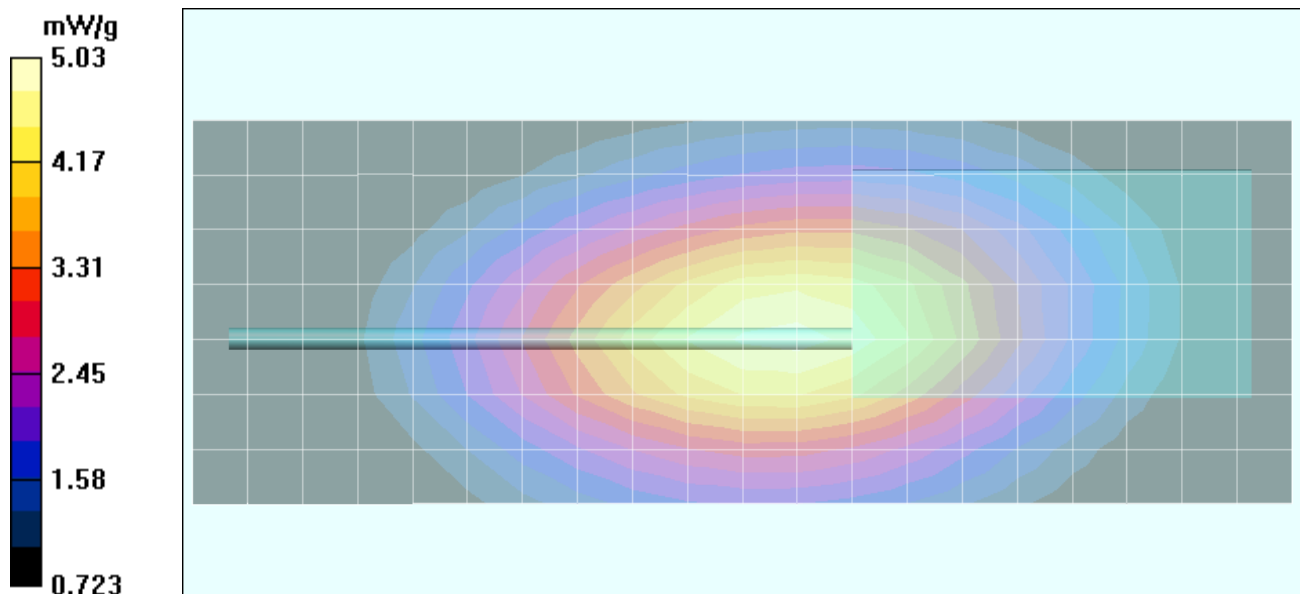
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 73.8 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 7.26 W/kg

SAR(1 g) = 4.81 mW/g; SAR(10 g) = 3.45 mW/g



Date Tested: 10/15/04

Face-Held SAR - Li-ion Battery (P/N: KNB-24L) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Ambient Temp: 24.2 °C; Fluid Temp: 23.4 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.26 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.5, 7.5, 7.5); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

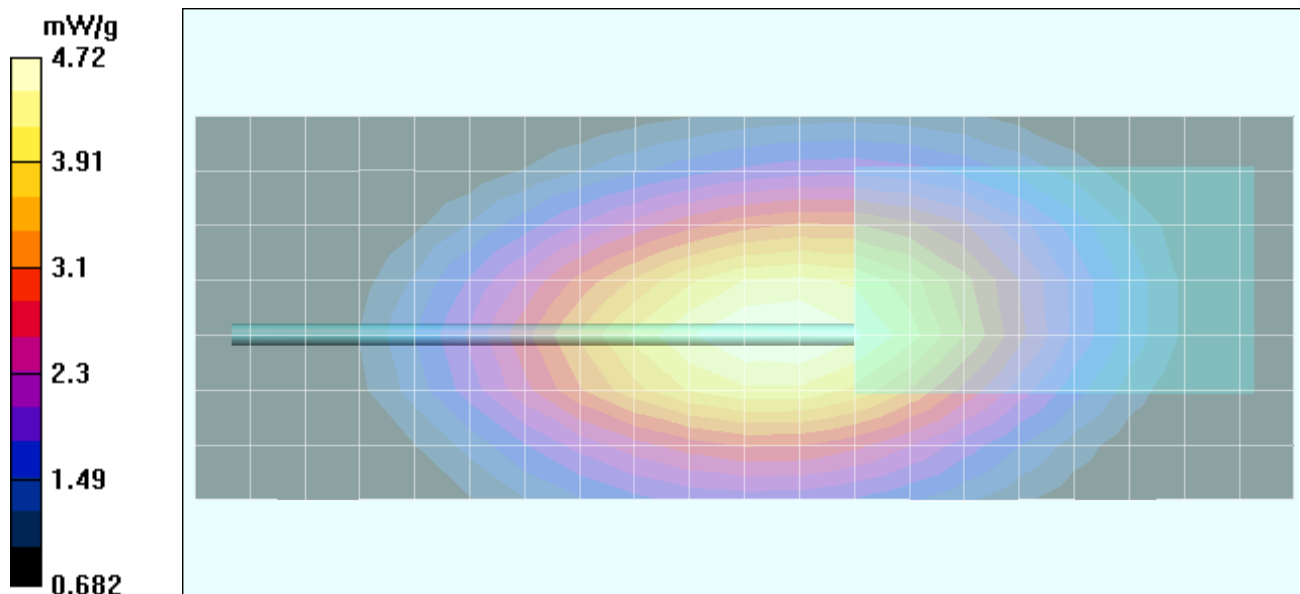
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 71.8 V/m; Power Drift = -0.181 dB

Peak SAR (extrapolated) = 6.8 W/kg

SAR(1 g) = 4.54 mW/g; SAR(10 g) = 3.28 mW/g



Date Tested: 10/15/04

Face-Held SAR - NiCd Battery (P/N: KNB-25A) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Ambient Temp: 24.2 °C; Fluid Temp: 23.4 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.34 dBm (Conducted)

7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.5, 7.5, 7.5); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

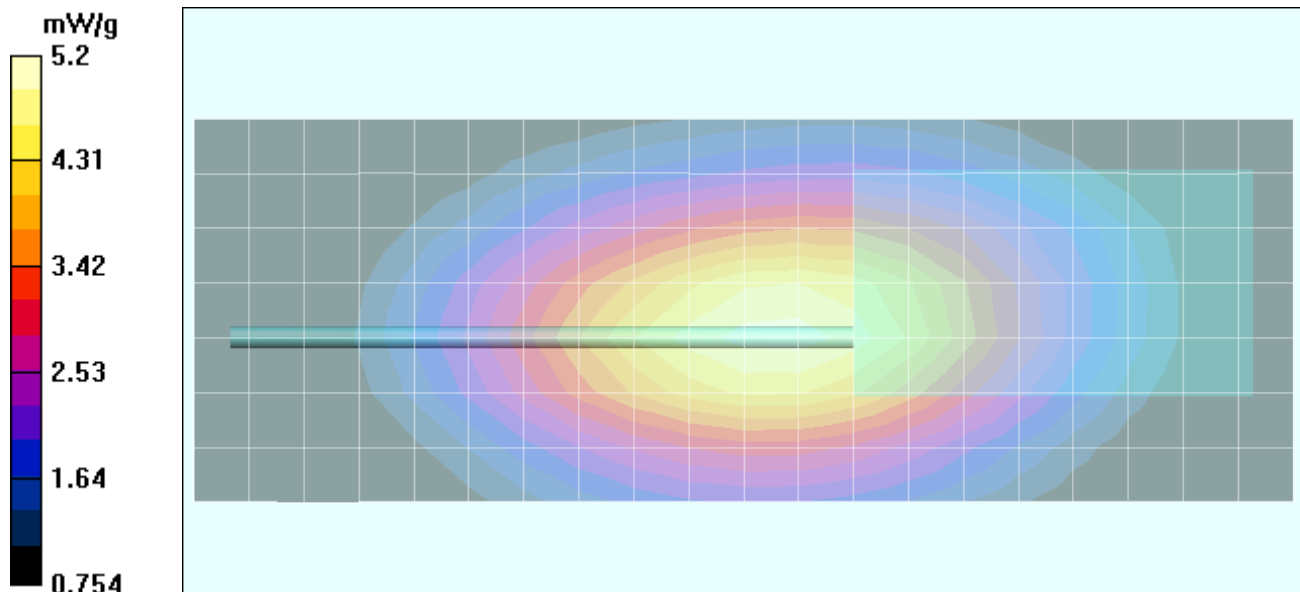
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 74.6 V/m; Power Drift = 0.0624 dB

Peak SAR (extrapolated) = 7.56 W/kg

SAR(1 g) = 4.94 mW/g; SAR(10 g) = 3.54 mW/g



Date Tested: 10/15/04

Face-Held SAR - NiMH Battery (P/N: KNB-26N) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Ambient Temp: 24.2 °C; Fluid Temp: 23.4 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.33 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: HSL450 ($\sigma = 0.84$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.5, 7.5, 7.5); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Face-Held - 2.5 cm Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

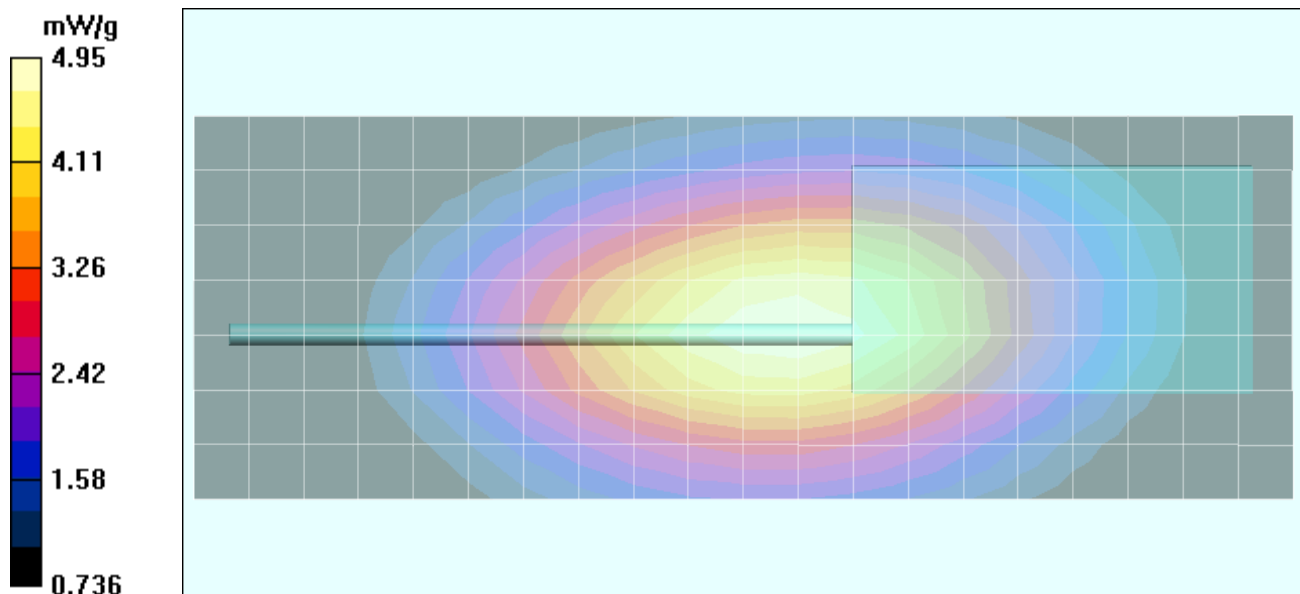
Face-Held - 2.5 cm Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 74.1 V/m; Power Drift = -0.156 dB

Peak SAR (extrapolated) = 7.11 W/kg

SAR(1 g) = 4.74 mW/g; SAR(10 g) = 3.42 mW/g



Date Tested: 10/13/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.09 dBm (Conducted)

9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)

Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

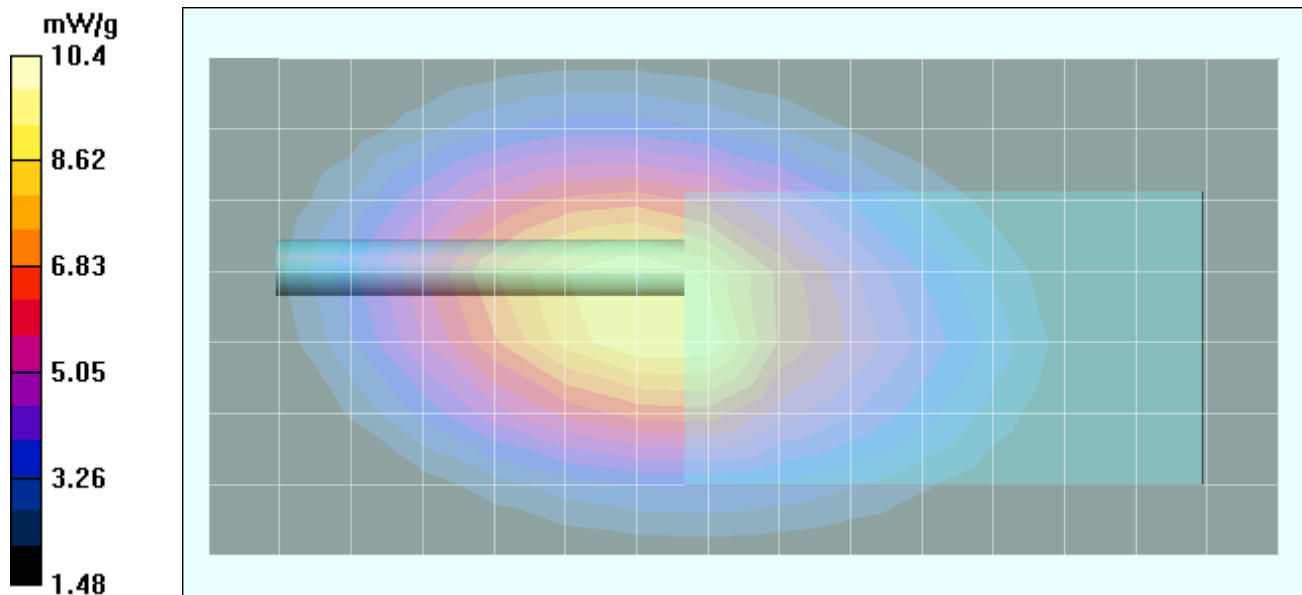
Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 110.3 V/m; Power Drift = -0.829 dB

Peak SAR (extrapolated) = 15.3 W/kg

SAR(1 g) = 9.97 mW/g; SAR(10 g) = 7.09 mW/g



Date Tested: 10/13/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF
Frequency: 415.05 MHz; Duty Cycle: 1:1
RF Output Power: 36.29 dBm (Conducted)
7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)
Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

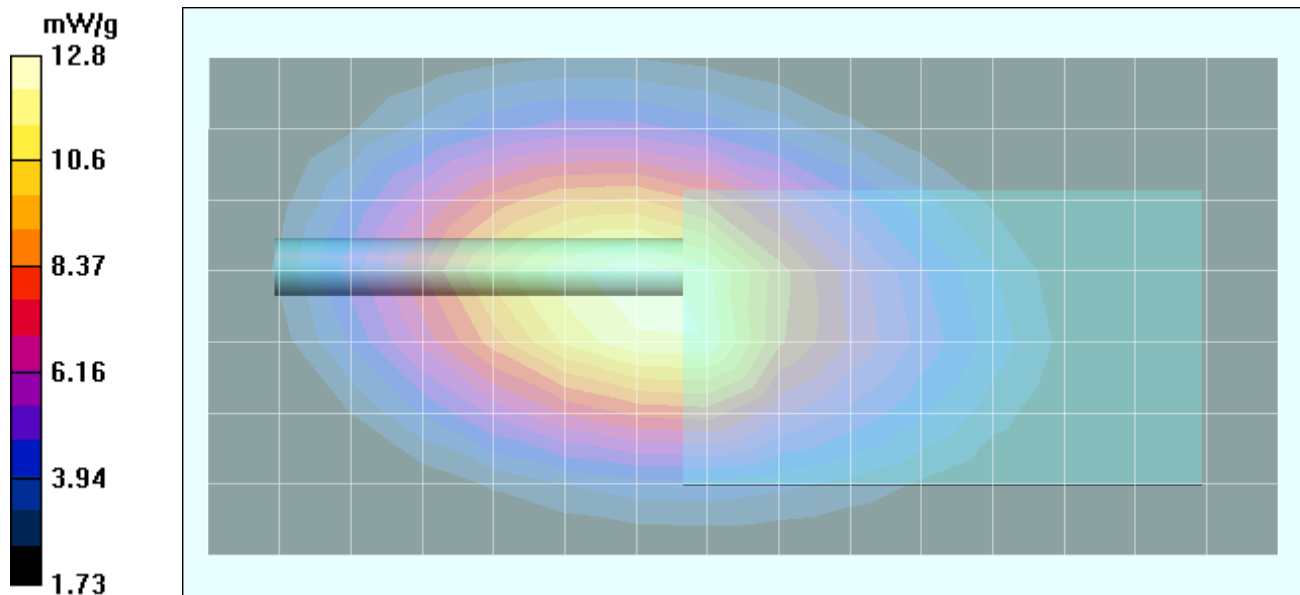
- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 117.2 V/m; Power Drift = -0.190 dB
Peak SAR (extrapolated) = 19.1 W/kg
SAR(1 g) = 12.2 mW/g; SAR(10 g) = 8.63 mW/g



Date Tested: 10/13/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.30 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)

Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

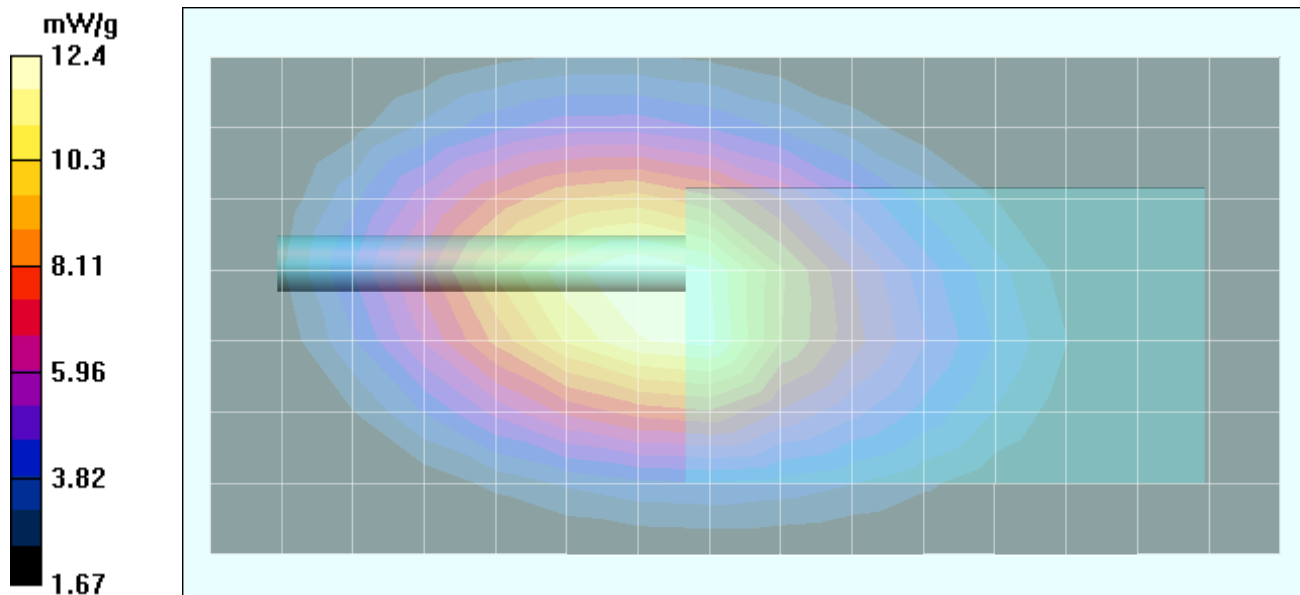
Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 118.6 V/m; Power Drift = -0.399 dB

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 11.9 mW/g; SAR(10 g) = 8.49 mW/g



Date Tested: 10/13/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.32 dBm (Conducted)

7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)

Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

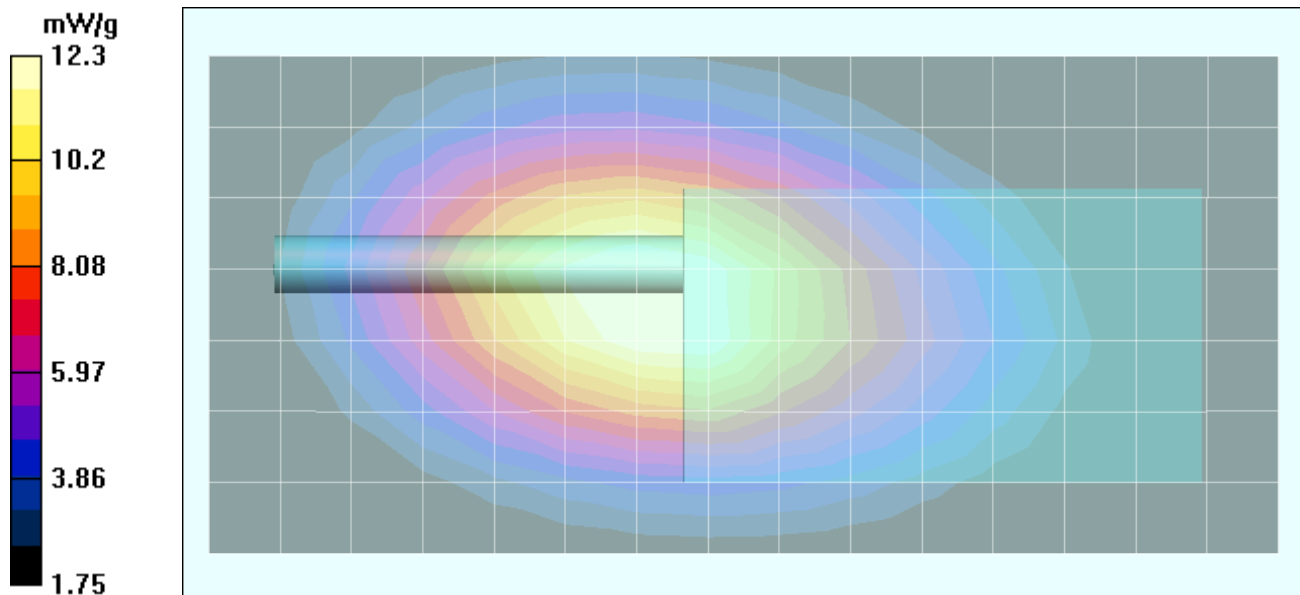
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 115.2 V/m; Power Drift = -0.291 dB

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 11.7 mW/g; SAR(10 g) = 8.41 mW/g



Date Tested: 10/13/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.32 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

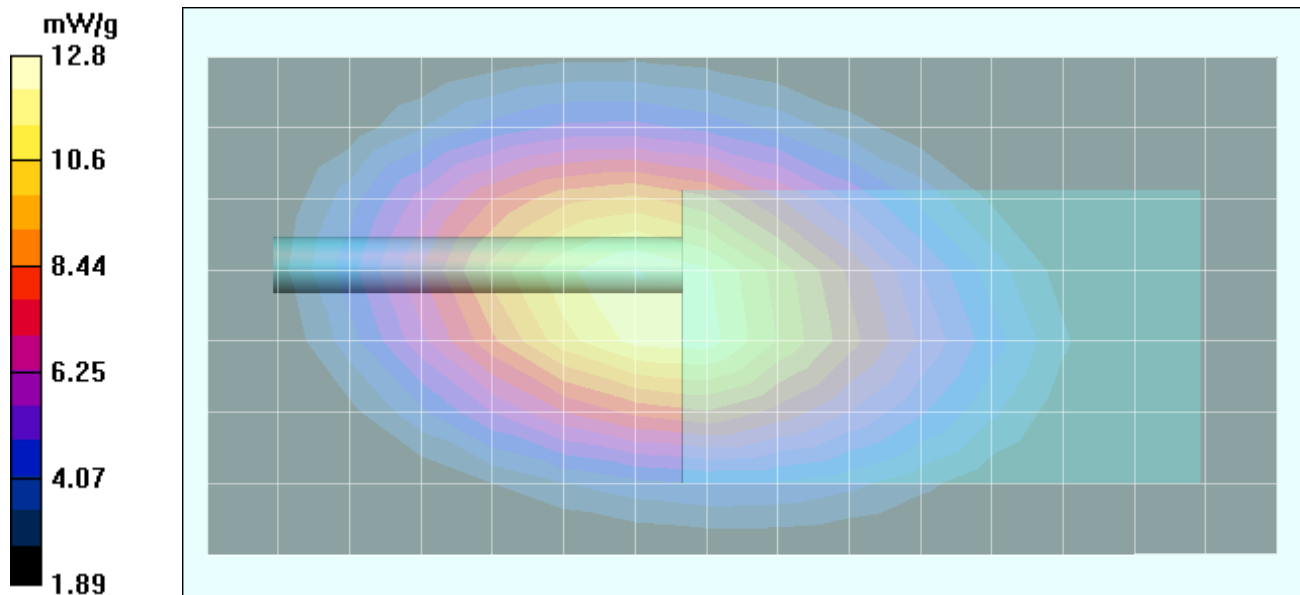
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 119.0 V/m; Power Drift = -0.320 dB

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 12.3 mW/g; SAR(10 g) = 8.81 mW/g



Date Tested: 10/13/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 400.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.40 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

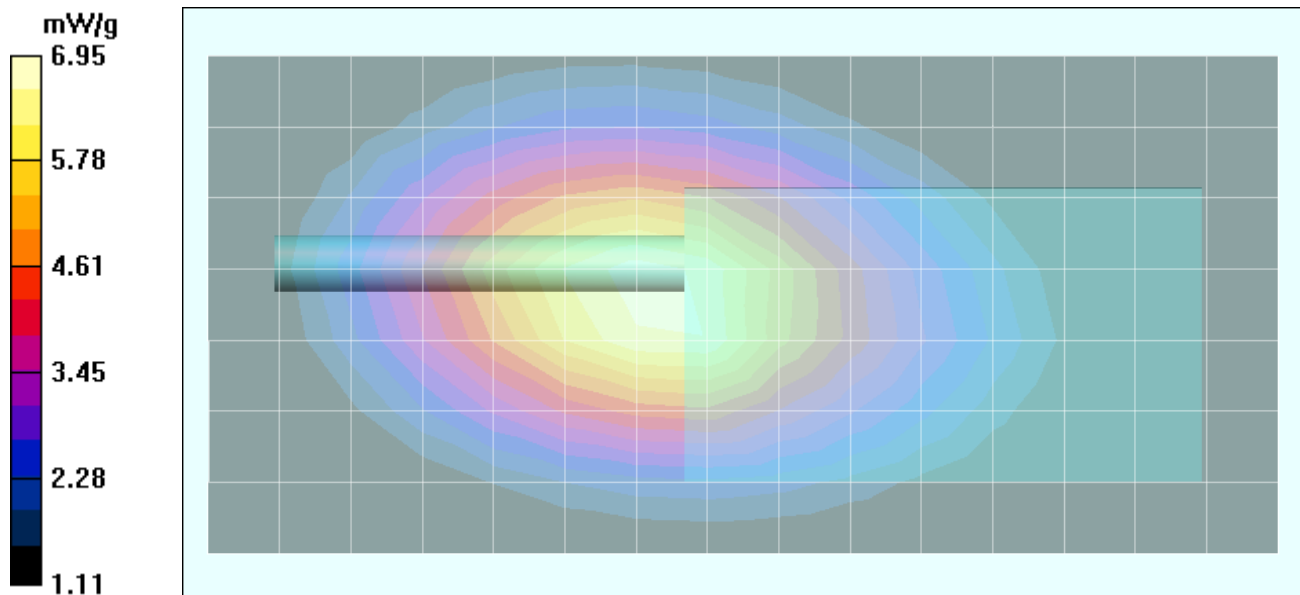
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 84.5 V/m; Power Drift = 0.285 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 6.62 mW/g; SAR(10 g) = 4.76 mW/g



Date Tested: 10/13/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 429.95 MHz; Duty Cycle: 1:1

RF Output Power: 36.28 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASy4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

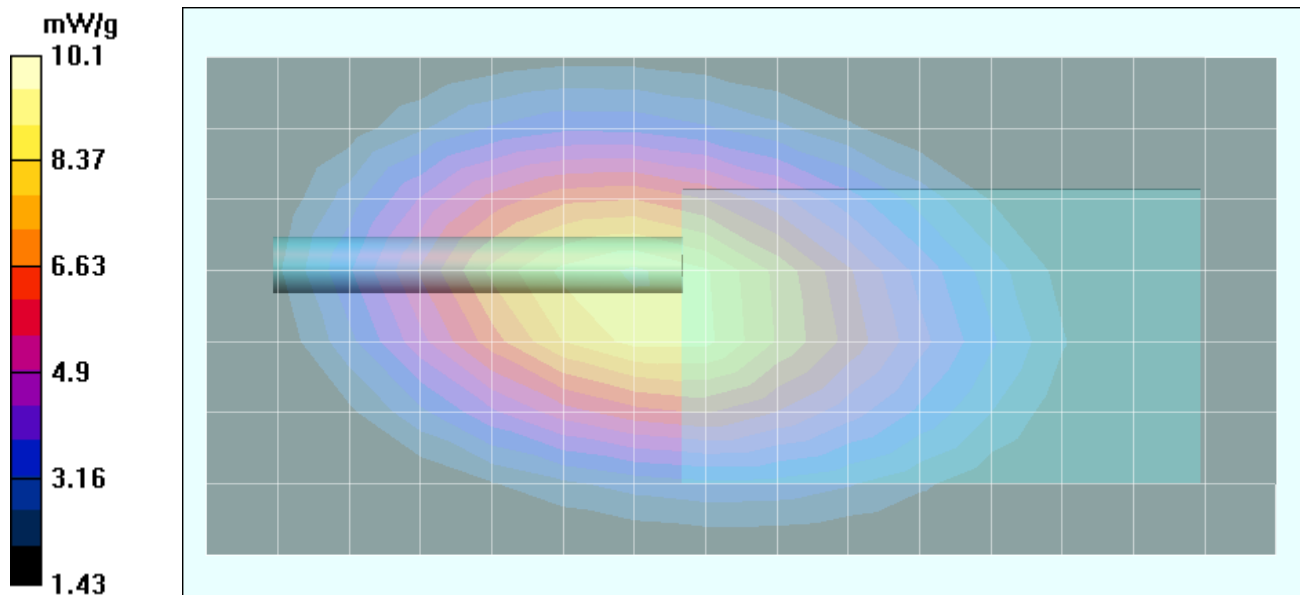
Body-Worn - 0.9 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 107.5 V/m; Power Drift = -0.702 dB

Peak SAR (extrapolated) = 14.7 W/kg

SAR(1 g) = 9.72 mW/g; SAR(10 g) = 6.98 mW/g



Date Tested: 10/13/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.05 dBm (Conducted)

9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)

Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

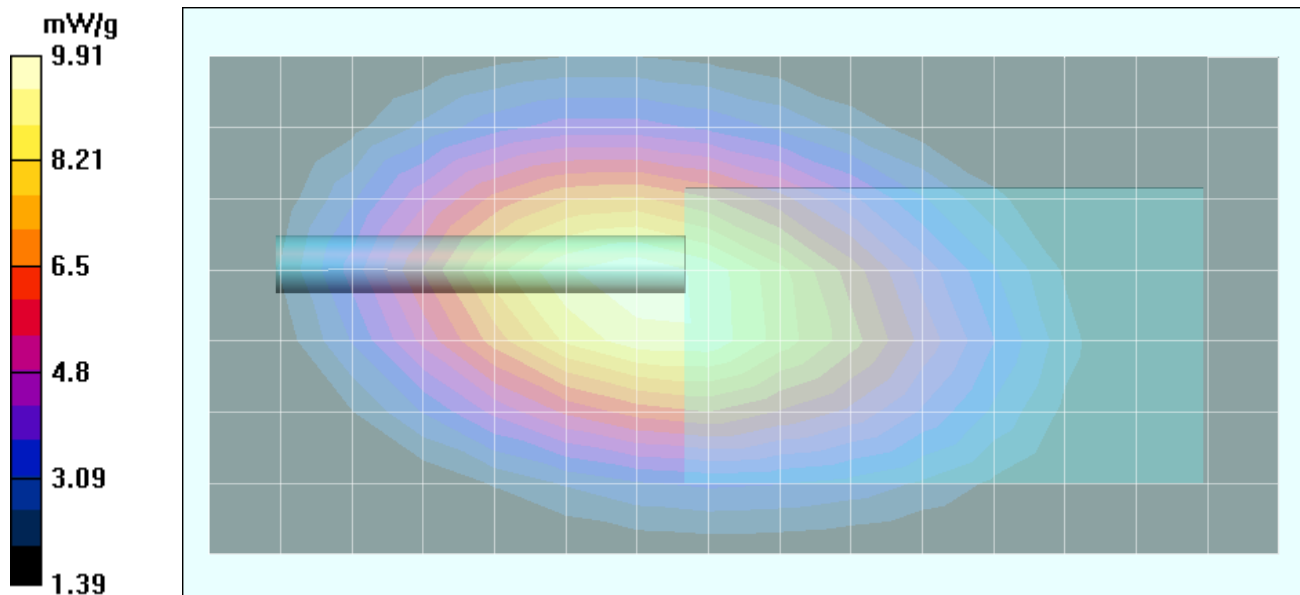
Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 109.3 V/m; Power Drift = -1.16 dB

Peak SAR (extrapolated) = 14.4 W/kg

SAR(1 g) = 9.49 mW/g; SAR(10 g) = 6.81 mW/g



Date Tested: 10/13/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.34 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)

Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

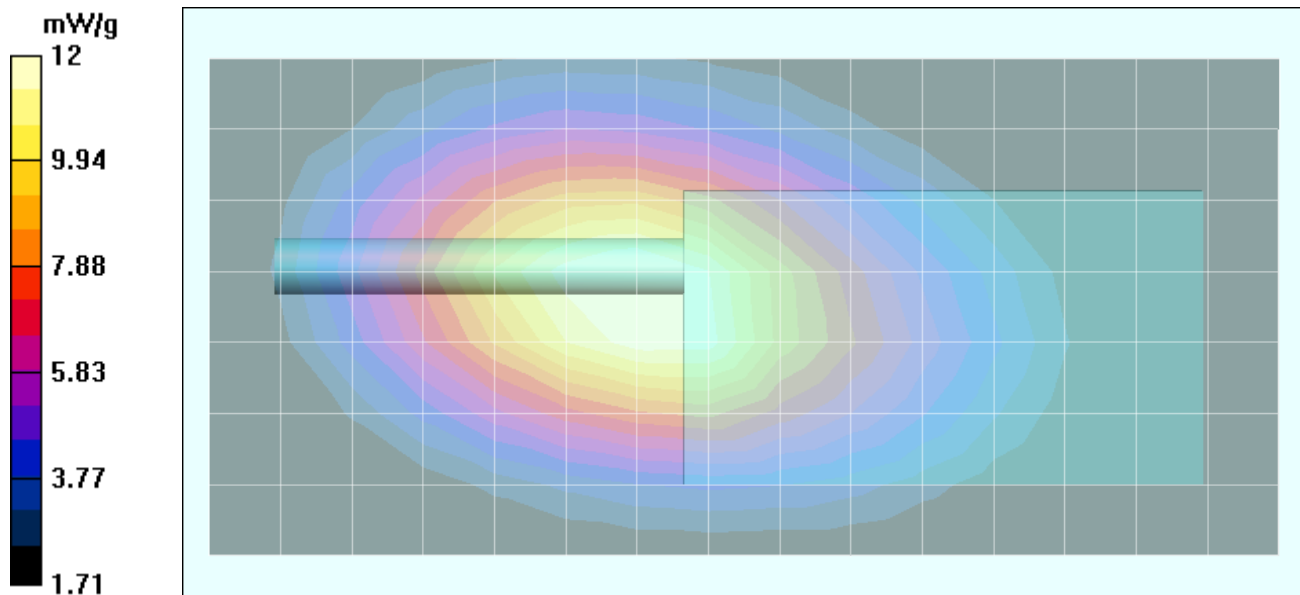
Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 111.1 V/m; Power Drift = -0.252 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 11.5 mW/g; SAR(10 g) = 8.14 mW/g



Date Tested: 10/13/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.25 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)

Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

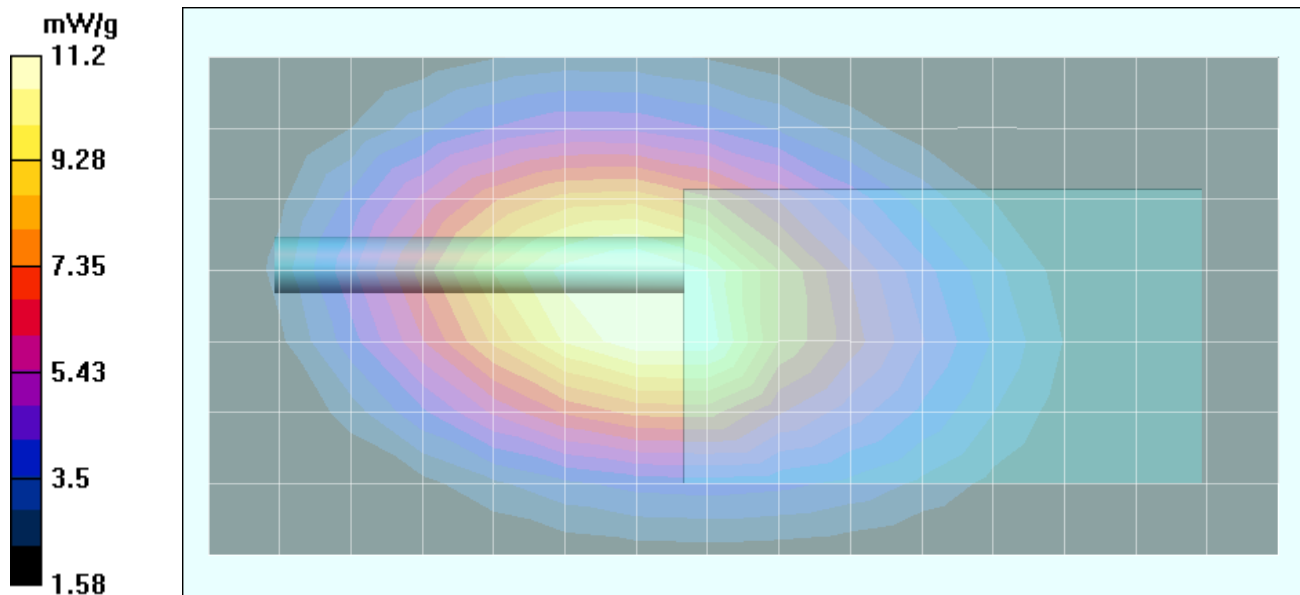
Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 110.8 V/m; Power Drift = -0.330 dB

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 10.8 mW/g; SAR(10 g) = 7.66 mW/g



Date Tested: 10/13/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.35 dBm (Conducted)

7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)

Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

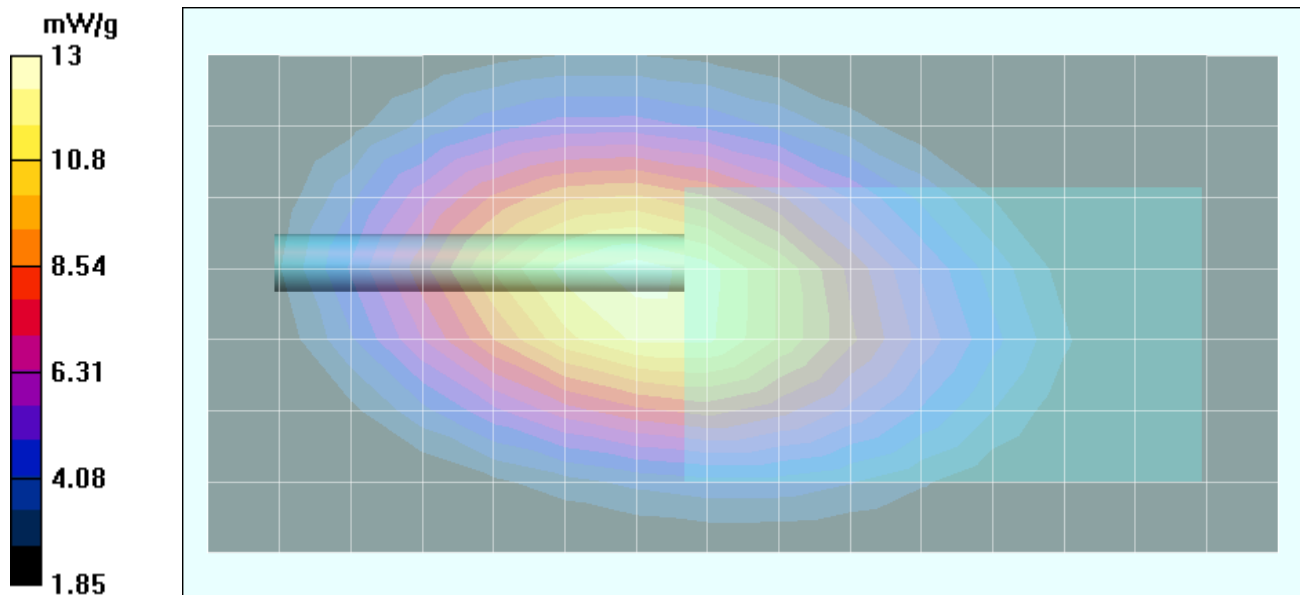
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

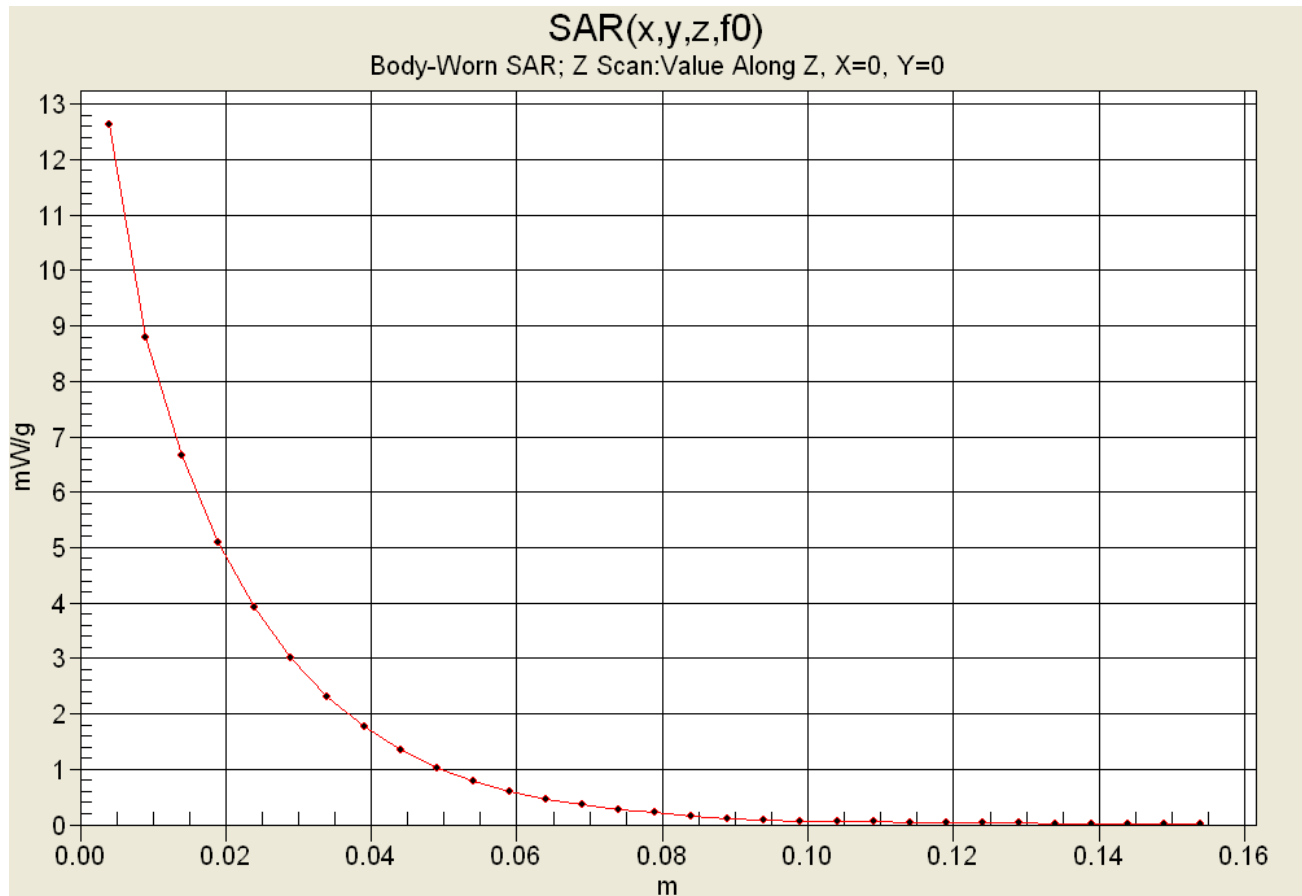
Reference Value = 118.9 V/m; Power Drift = -0.364 dB

Peak SAR (extrapolated) = 19 W/kg

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

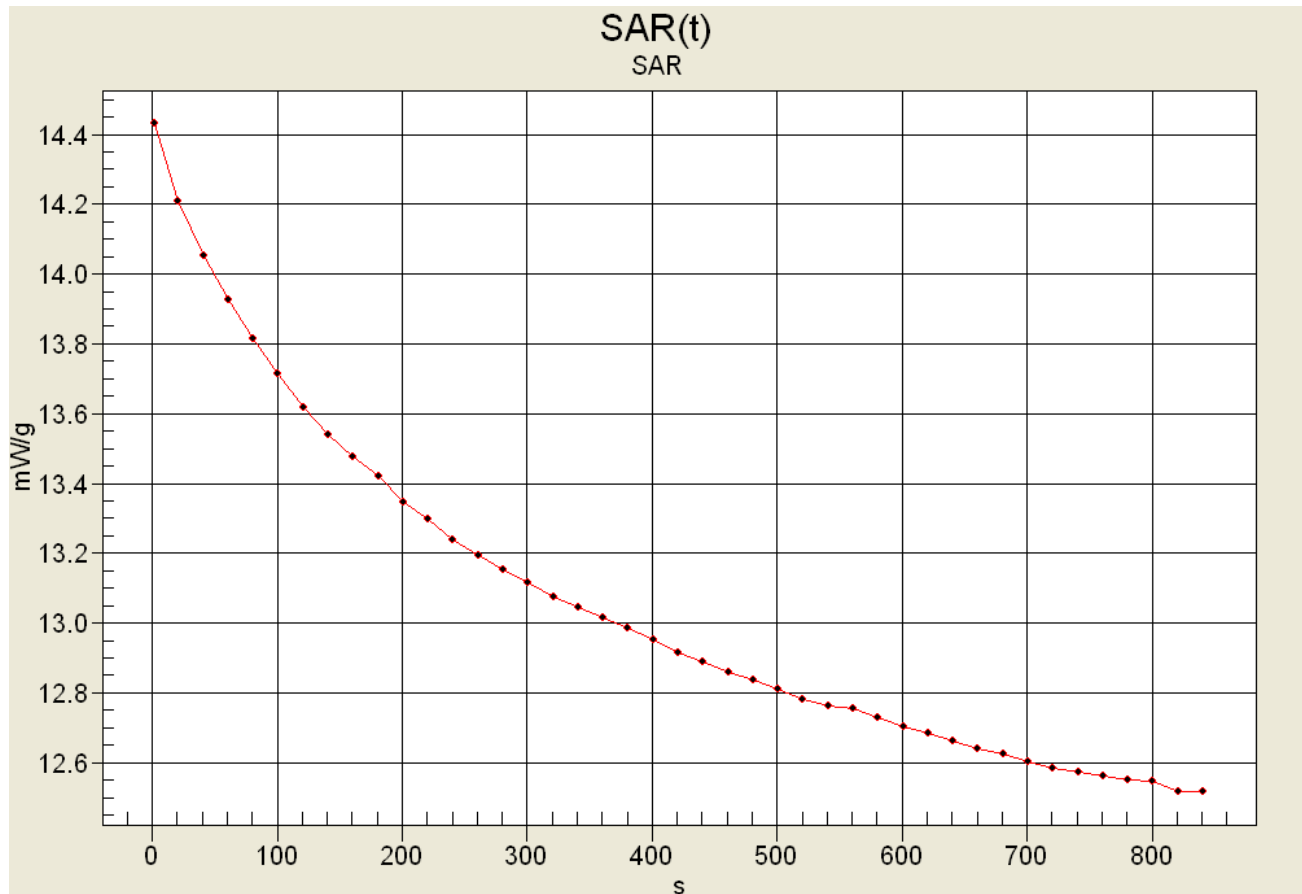


Z-Axis Scan



SAR-versus-Time Power Drift Evaluation

With Belt-Clip and Headset
NiCd Battery Pack - KNB-25A
Stubby Antenna - KRA-17M3
Mid Channel - 415.05 MHz



Highest SAR: 14.4310 mW/g
Lowest SAR: 12.5180 mW/g (-0.6176dB)
SAR after 340s: 13.0462 mW/g (-0.4381dB)
 (340s = Zoom Scan Duration)
 (840s = Area Scan Duration)

Date Tested: 10/13/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.2 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 103.7 kPa; Humidity: 32%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.36 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: M450 ($\sigma = 0.92$ mho/m; $\epsilon_r = 57.1$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

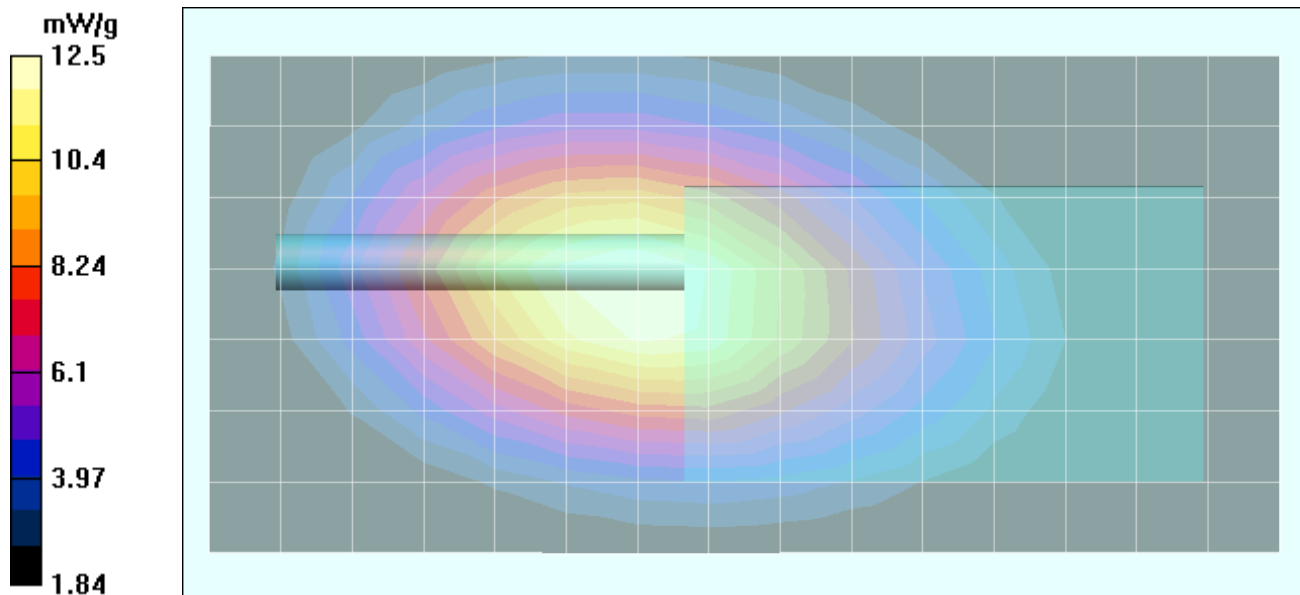
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 114.2 V/m; Power Drift = -0.343 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 12.0 mW/g; SAR(10 g) = 8.55 mW/g



Date Tested: 10/14/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 400.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.40 dBm (Conducted)

7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

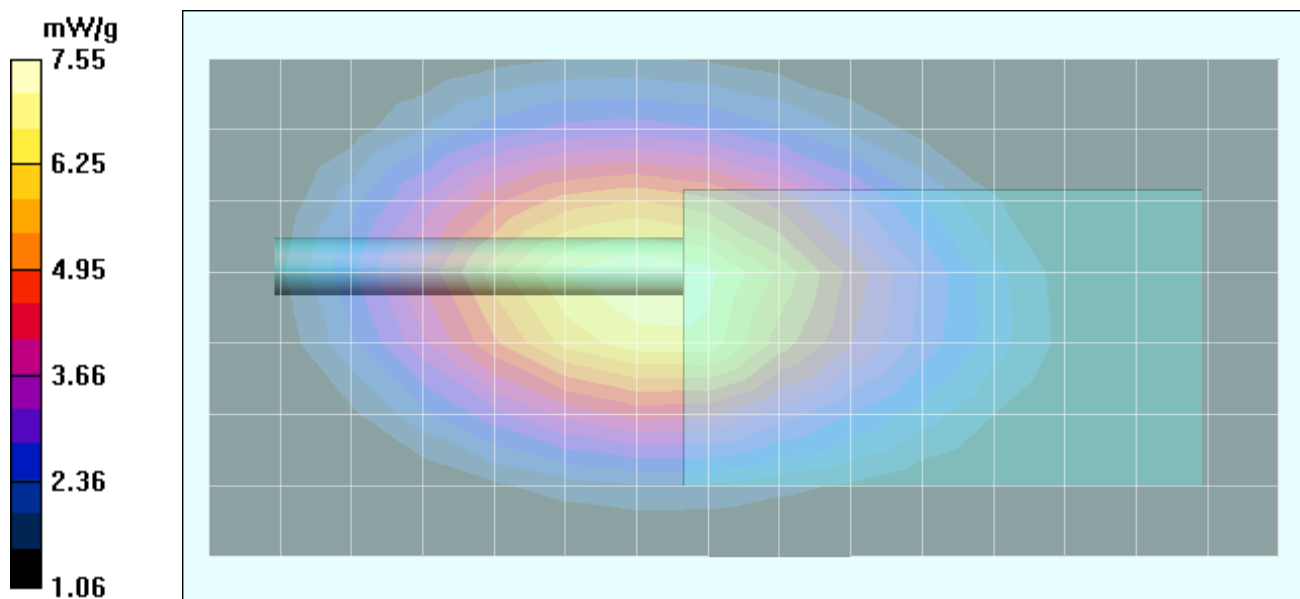
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 81.8 V/m; Power Drift = 0.338 dB

Peak SAR (extrapolated) = 11 W/kg

SAR(1 g) = 7.23 mW/g; SAR(10 g) = 5.13 mW/g



Date Tested: 10/14/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 429.95 MHz; Duty Cycle: 1:1

RF Output Power: 36.34 dBm (Conducted)

7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

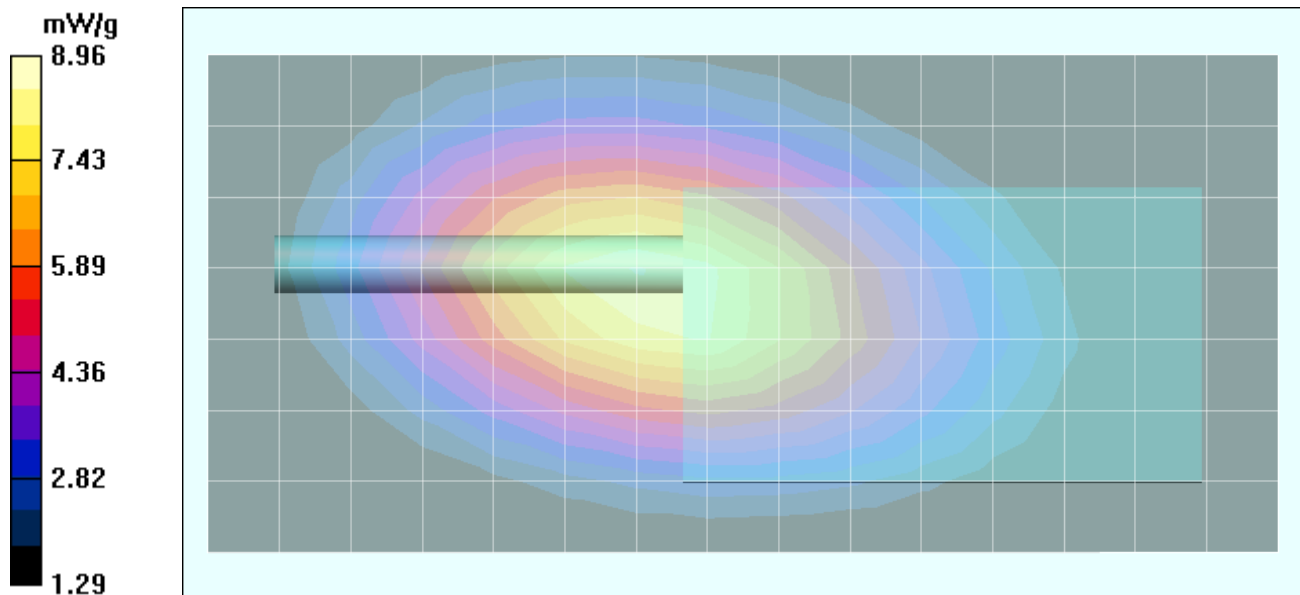
Body-Worn - 0.9 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 100.7 V/m; Power Drift = -0.652 dB

Peak SAR (extrapolated) = 12.9 W/kg

SAR(1 g) = 8.60 mW/g; SAR(10 g) = 6.22 mW/g



Date Tested: 10/14/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF
Frequency: 415.05 MHz; Duty Cycle: 1:1
RF Output Power: 36.02 dBm (Conducted)
9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

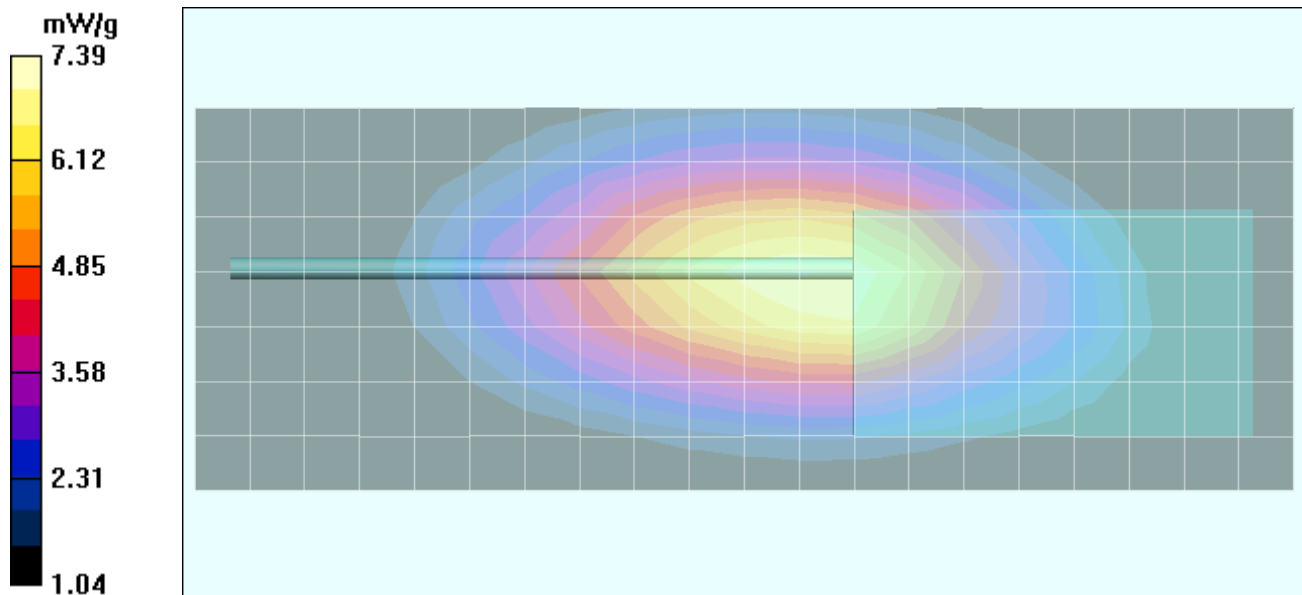
- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 91.8 V/m; Power Drift = -1.09 dB
Peak SAR (extrapolated) = 10.6 W/kg
SAR(1 g) = 7.07 mW/g; SAR(10 g) = 5.13 mW/g



Date Tested: 10/14/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.43 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

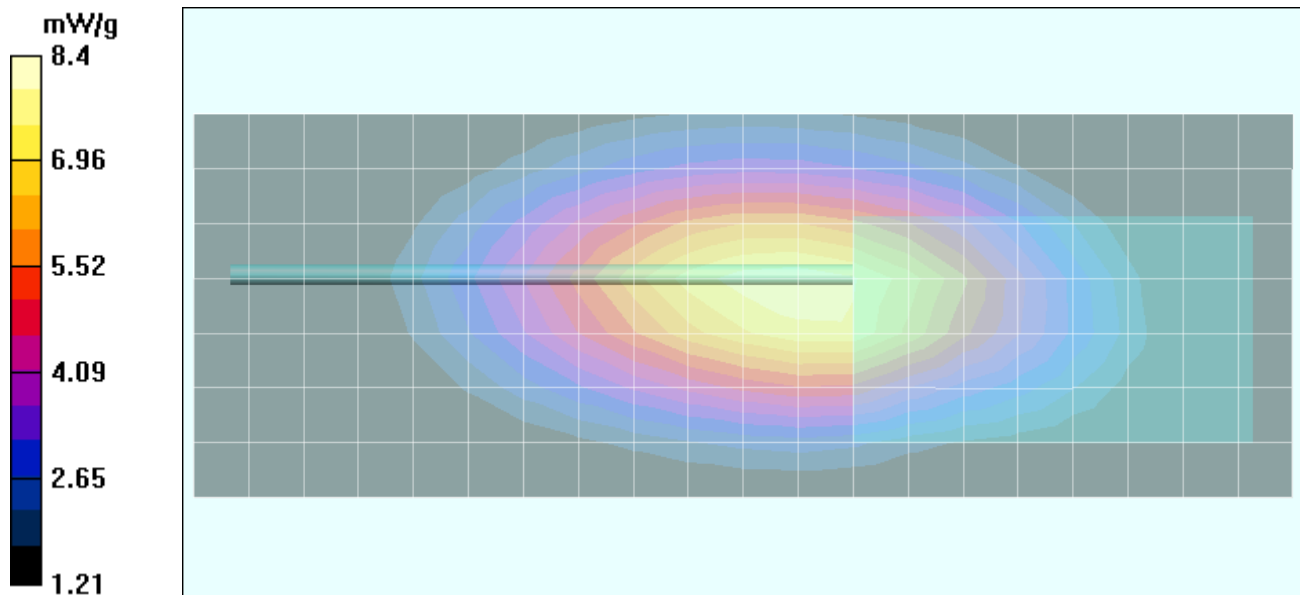
Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 86.7 V/m; Power Drift = 0.473 dB

Peak SAR (extrapolated) = 12.3 W/kg

SAR(1 g) = 8.09 mW/g; SAR(10 g) = 5.78 mW/g



Date Tested: 10/14/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.24 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

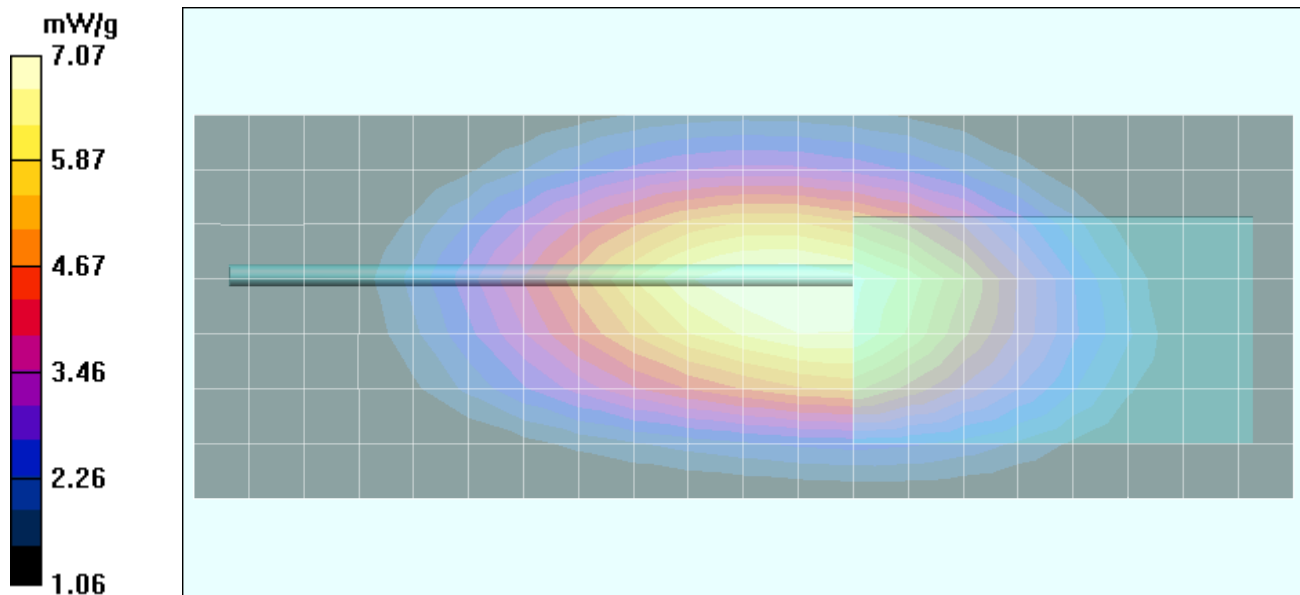
Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 87.2 V/m; Power Drift = -0.387 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 6.82 mW/g; SAR(10 g) = 4.98 mW/g



Date Tested: 10/14/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.42 dBm (Conducted)

7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

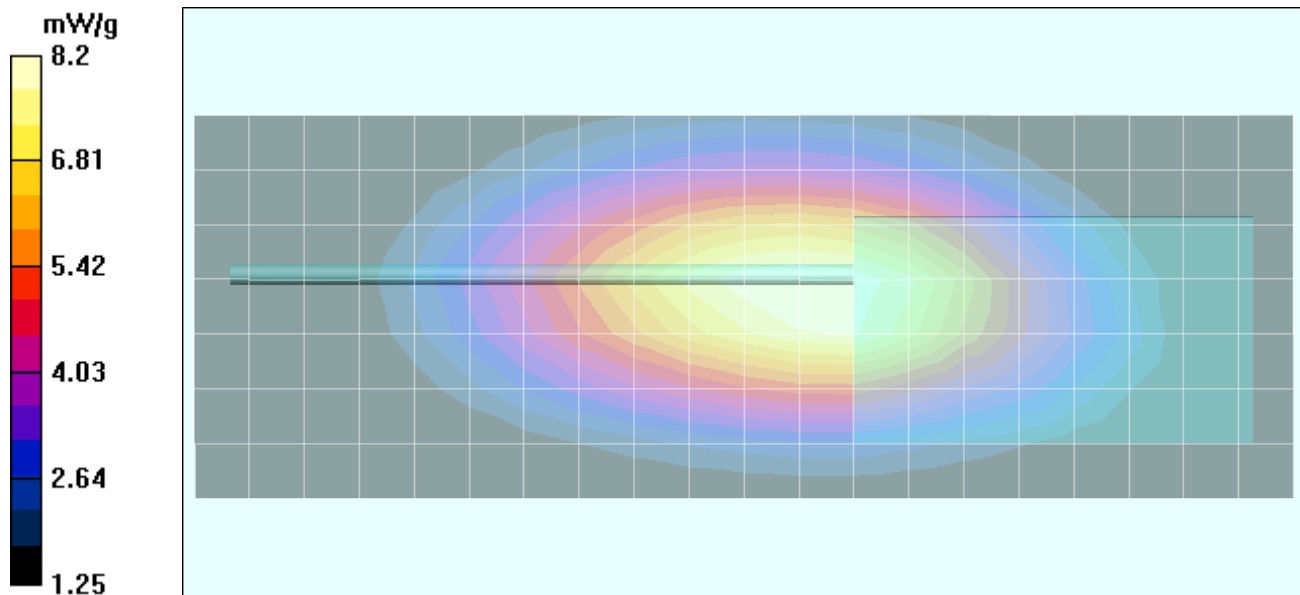
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 92.2 V/m; Power Drift = -0.328 dB

Peak SAR (extrapolated) = 11.7 W/kg

SAR(1 g) = 7.85 mW/g; SAR(10 g) = 5.7 mW/g



Date Tested: 10/14/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.38 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

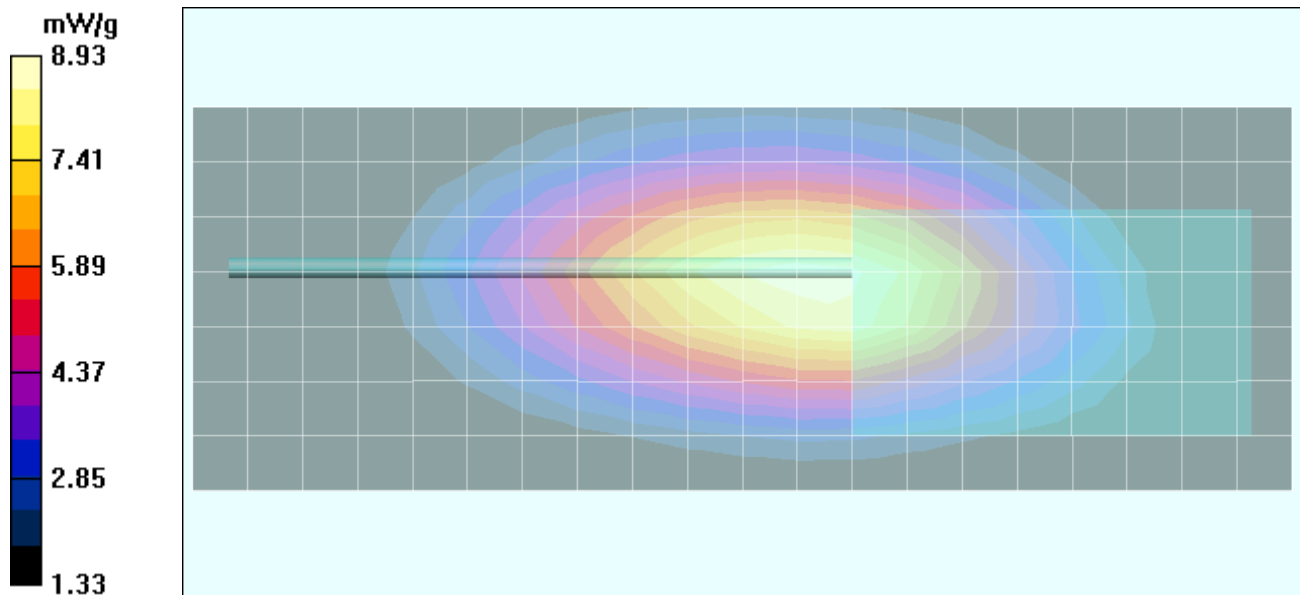
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 96.8 V/m; Power Drift = -0.376 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 8.54 mW/g; SAR(10 g) = 6.2 mW/g



Date Tested: 10/14/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 400.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.37 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

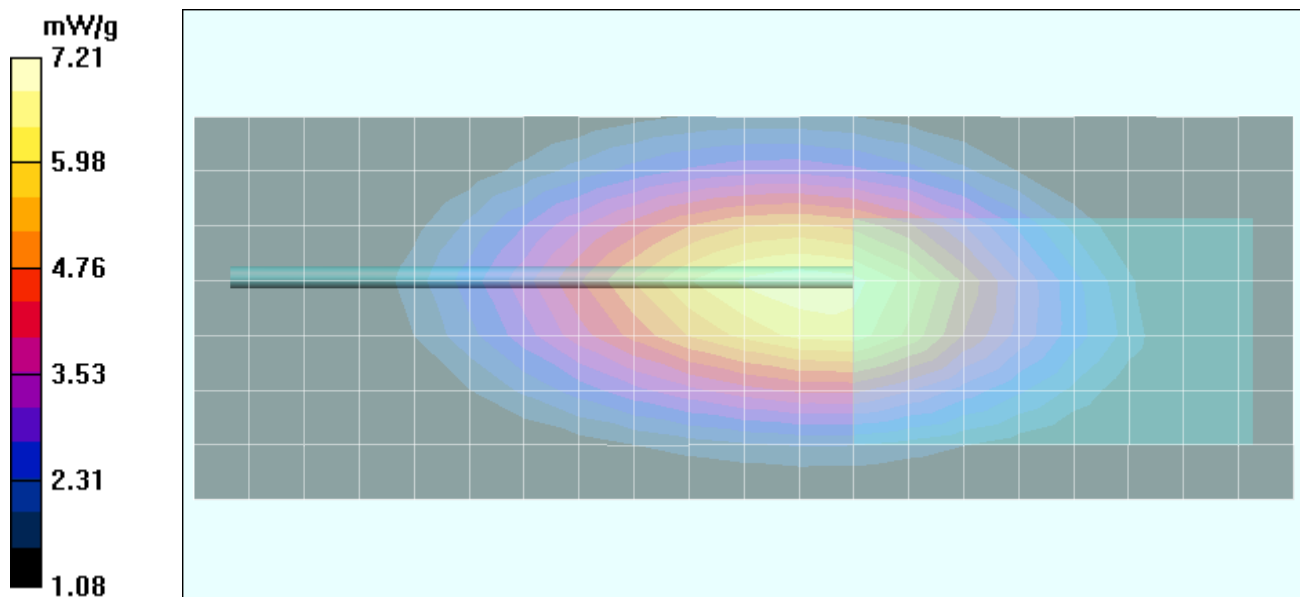
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 87.1 V/m; Power Drift = -0.304 dB

Peak SAR (extrapolated) = 10.3 W/kg

SAR(1 g) = 6.92 mW/g; SAR(10 g) = 5.03 mW/g



Date Tested: 10/14/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Speaker-Microphone (P/N: KMC-17), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 429.95 MHz; Duty Cycle: 1:1

RF Output Power: 36.39 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

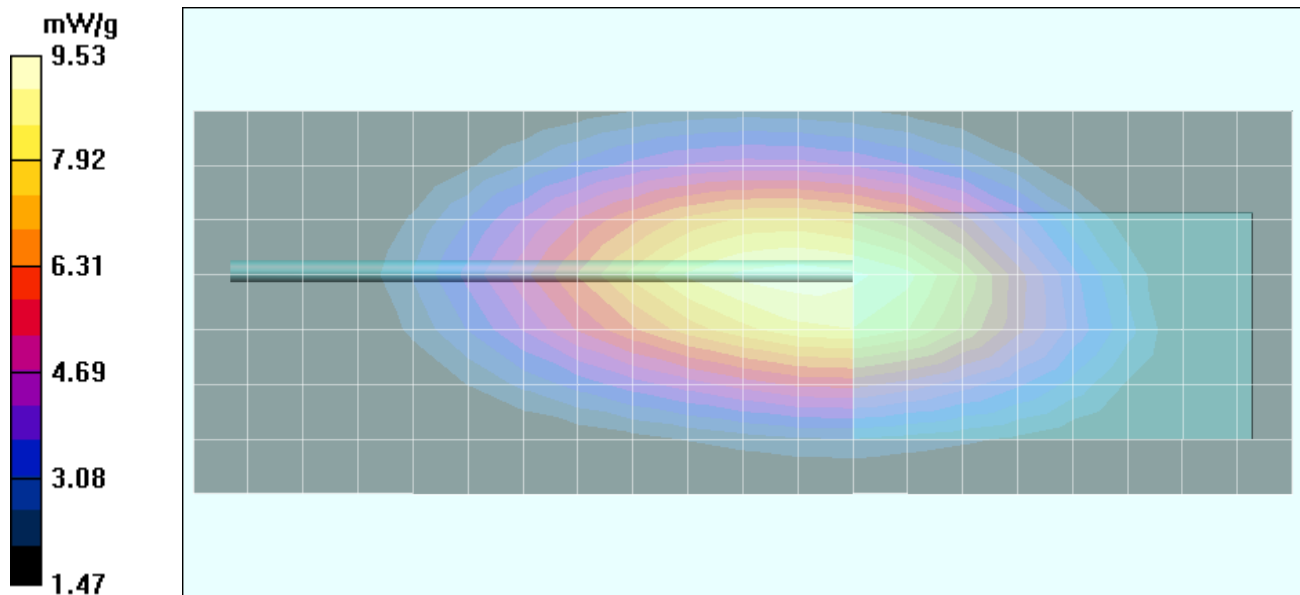
Body-Worn - 0.9 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:

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

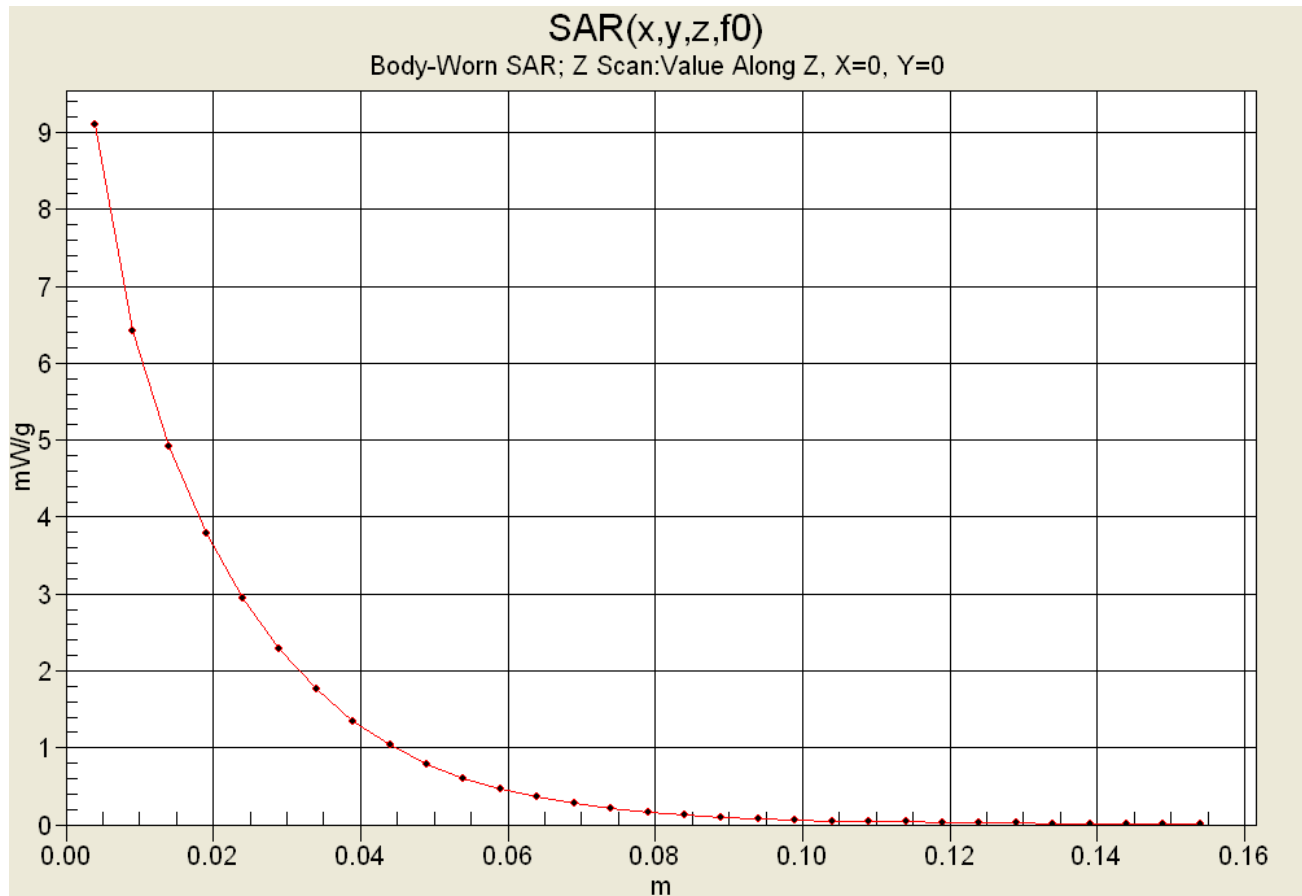
Reference Value = 100 V/m; Power Drift = -0.441 dB

Peak SAR (extrapolated) = 13.7 W/kg

SAR(1 g) = 9.13 mW/g; SAR(10 g) = 6.65 mW/g



Z-Axis Scan



Date Tested: 10/14/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF
Frequency: 415.05 MHz; Duty Cycle: 1:1
RF Output Power: 36.01 dBm (Conducted)
9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

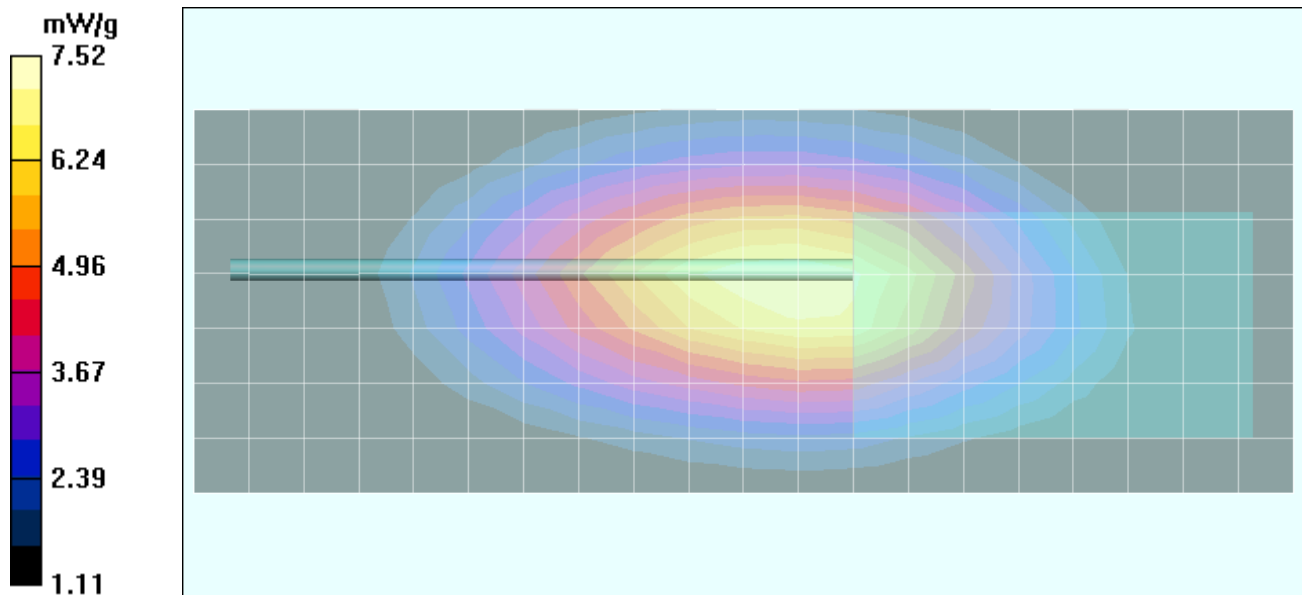
- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 93.1 V/m; Power Drift = -1.01 dB
Peak SAR (extrapolated) = 10.9 W/kg
SAR(1 g) = 7.14 mW/g; SAR(10 g) = 5.21 mW/g



Date Tested: 10/14/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-35L) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.41 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-35L)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

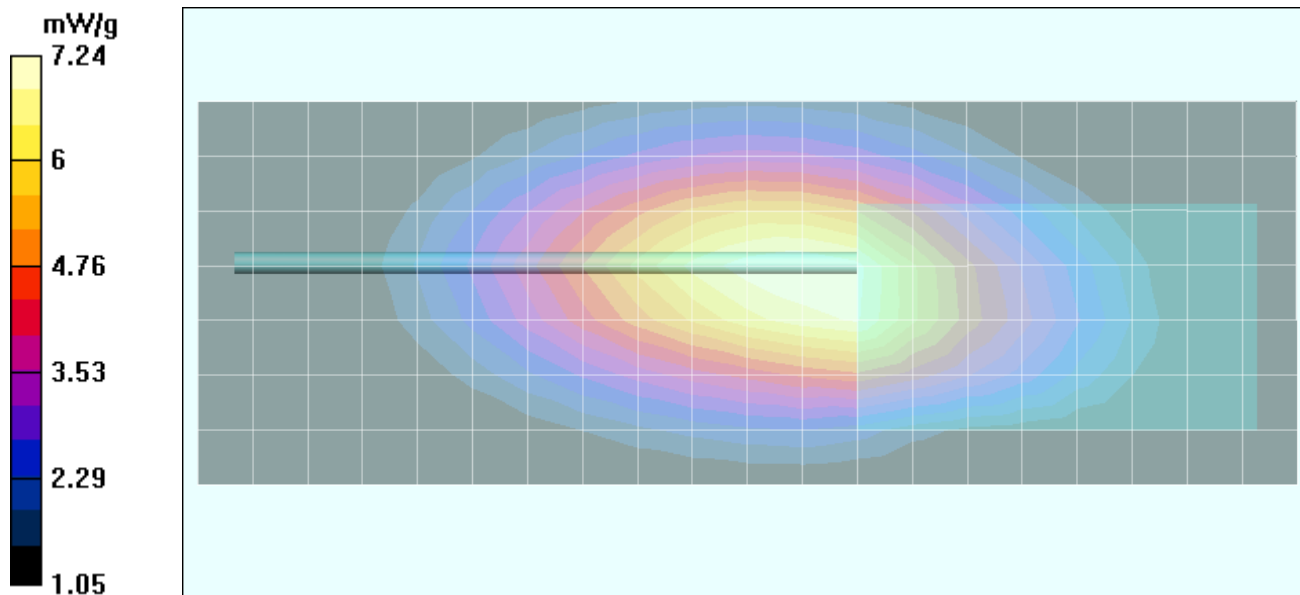
Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 86 V/m; Power Drift = -0.0567 dB

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 6.94 mW/g; SAR(10 g) = 5.01 mW/g



Date Tested: 10/14/04

Body-Worn SAR - Li-ion Battery (P/N: KNB-24L) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.33 dBm (Conducted)

7.4V 1400mAh Li-ion Battery Pack (P/N: KNB-24L)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

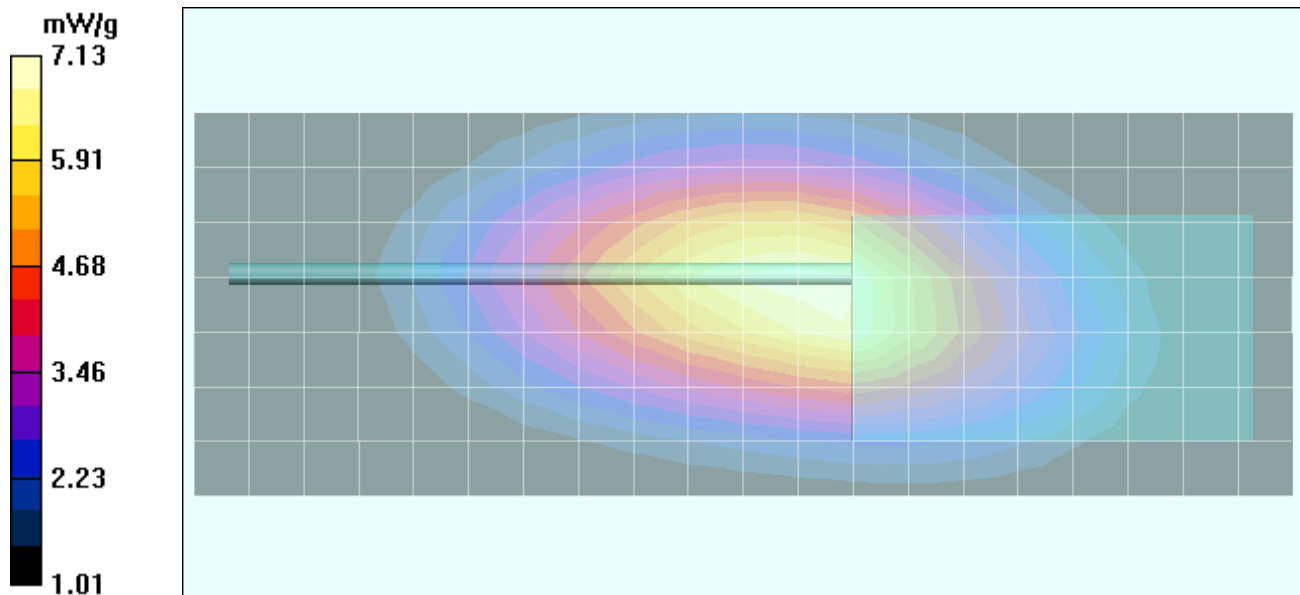
Body-Worn - 1.4 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 86.3 V/m; Power Drift = -0.129 dB

Peak SAR (extrapolated) = 10.3 W/kg

SAR(1 g) = 6.84 mW/g; SAR(10 g) = 4.93 mW/g



Date Tested: 10/14/04

Body-Worn SAR - NiCd Battery (P/N: KNB-25A) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.39 dBm (Conducted)

7.2V 1200mAh NiCd Battery Pack (P/N: KNB-25A)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

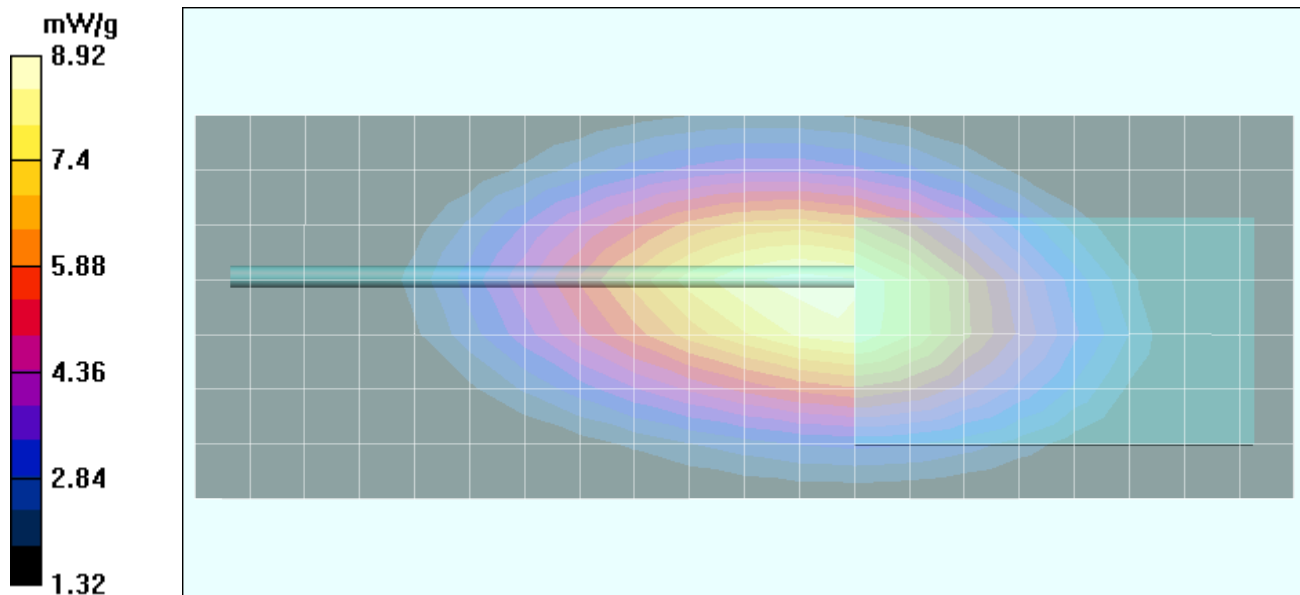
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 95.6 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 12.8 W/kg

SAR(1 g) = 8.56 mW/g; SAR(10 g) = 6.19 mW/g



Date Tested: 10/14/04

Body-Worn SAR - NiMH Battery (P/N: KNB-26N) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 24.3 °C; Fluid Temp: 23.6 °C; Barometric Pressure: 103.0 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 415.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.39 dBm (Conducted)

7.2V 2000mAh NiMH Battery Pack (P/N: KNB-26N)

Medium: M450 ($\sigma = 0.93$ mho/m; $\epsilon_r = 57.9$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

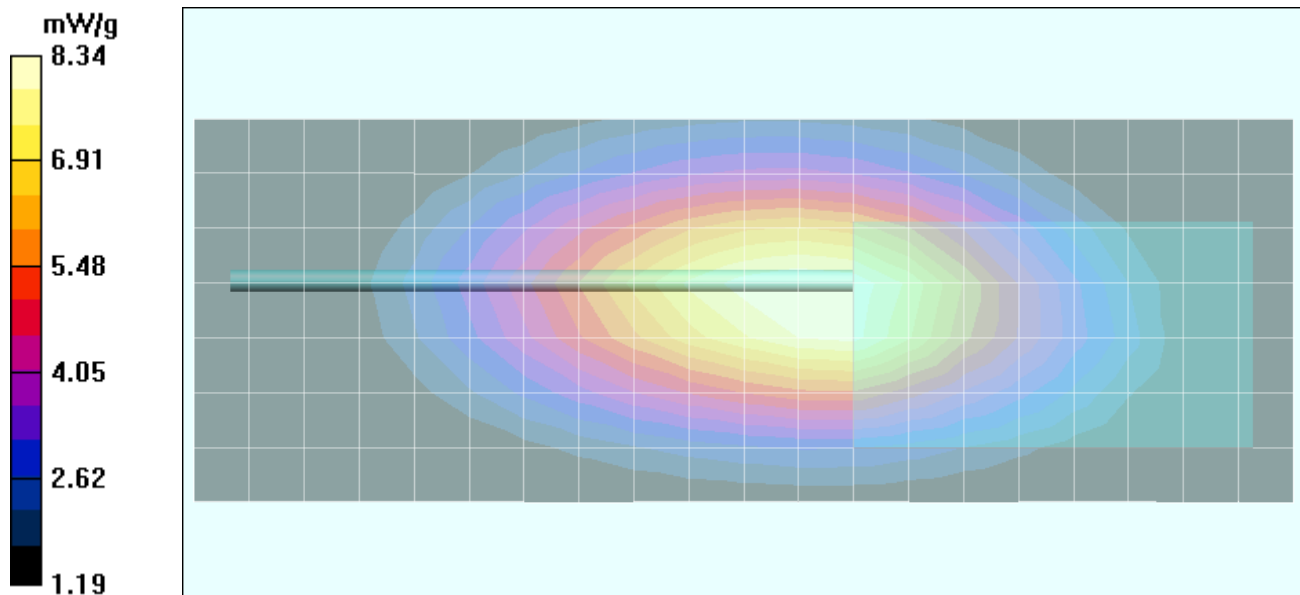
Body-Worn - 0.9 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 94.8 V/m; Power Drift = -0.281 dB

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 8.00 mW/g; SAR(10 g) = 5.77 mW/g



Date Tested: 10/15/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 23.0 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.4 kPa; Humidity: 36%

Communication System: FM UHF

Frequency: 400.05 MHz; Duty Cycle: 1:1

RF Output Power: 36.12 dBm (Conducted)

9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)

Medium: M450 ($\sigma = 0.90$ mho/m; $\epsilon_r = 56.5$; $\rho = 1000$ kg/m³)

- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

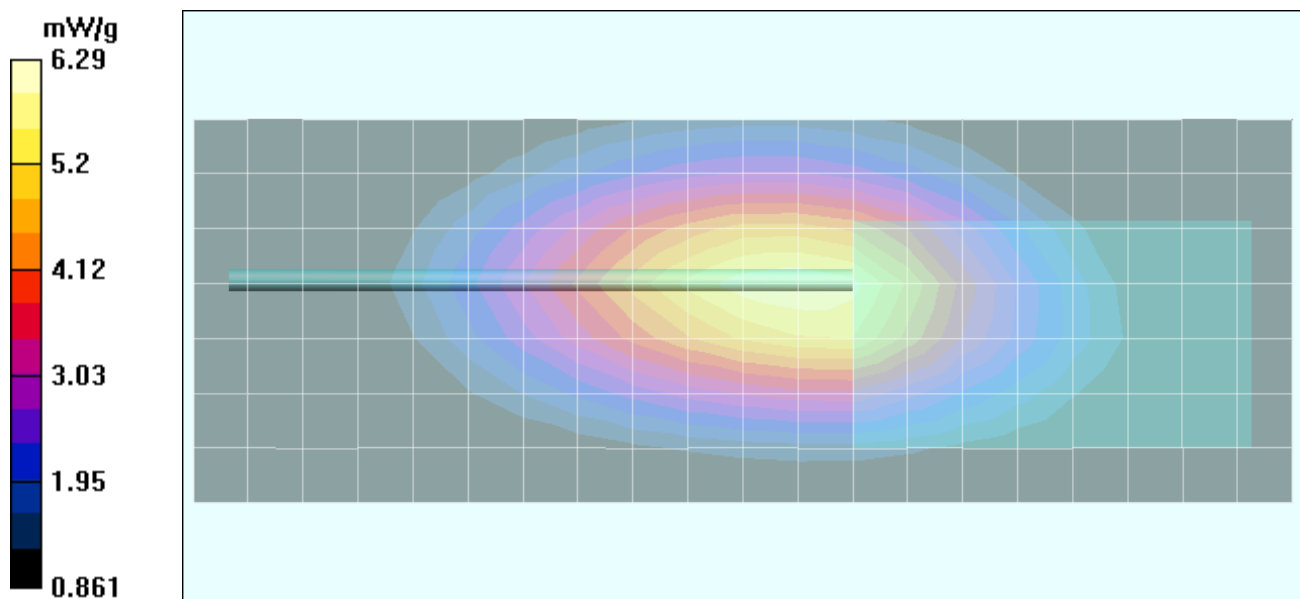
Body-Worn - 1.0 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 83.8 V/m; Power Drift = -0.877 dB

Peak SAR (extrapolated) = 9.04 W/kg

SAR(1 g) = 6.01 mW/g; SAR(10 g) = 4.32 mW/g



Date Tested: 10/15/04

Body-Worn SAR - Duracell Alkaline Battery Pack (P/N: KBP-5) - Whip Antenna (P/N: KRA-27M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 23.0 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.4 kPa; Humidity: 36%

Communication System: FM UHF
Frequency: 429.95 MHz; Duty Cycle: 1:1
RF Output Power: 36.07 dBm (Conducted)
9V AA Alkaline Duracell ProCell Battery Pack (Battery Case P/N: KBP-5)
Medium: M450 ($\sigma = 0.90$ mho/m; $\epsilon_r = 56.5$; $\rho = 1000$ kg/m³)

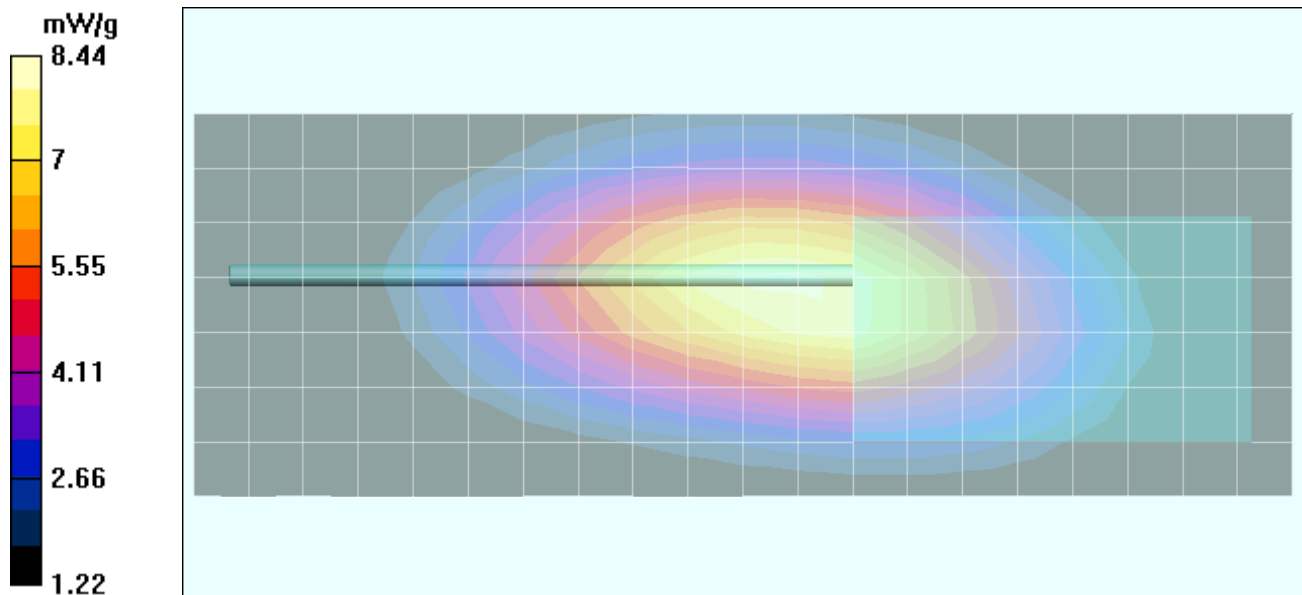
- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.0 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x21x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 99.7 V/m; Power Drift = -0.958 dB
Peak SAR (extrapolated) = 12.2 W/kg
SAR(1 g) = 8.07 mW/g; SAR(10 g) = 5.83 mW/g



Date Tested: 10/15/04

Body-Worn SAR - Energizer Alkaline Battery Pack (P/N: KBP-5) - Stubby Antenna (P/N: KRA-17M3)

DUT: Kenwood Model: TK-3170-K6; Type: Portable UHF PTT Radio Transceiver; Serial: 1S-U3-19

Body-Worn Accessories: Headset (P/N: KHS-21), Belt-Clip (P/N: KBH-12)

Ambient Temp: 23.0 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.4 kPa; Humidity: 36%

Communication System: FM UHF
Frequency: 415.05 MHz; Duty Cycle: 1:1
RF Output Power: 36.09 dBm (Conducted)
9V AA Alkaline Energizer E91 Battery Pack (Battery Case P/N: KBP-5)
Medium: M450 ($\sigma = 0.90$ mho/m; $\epsilon_r = 56.5$; $\rho = 1000$ kg/m³)

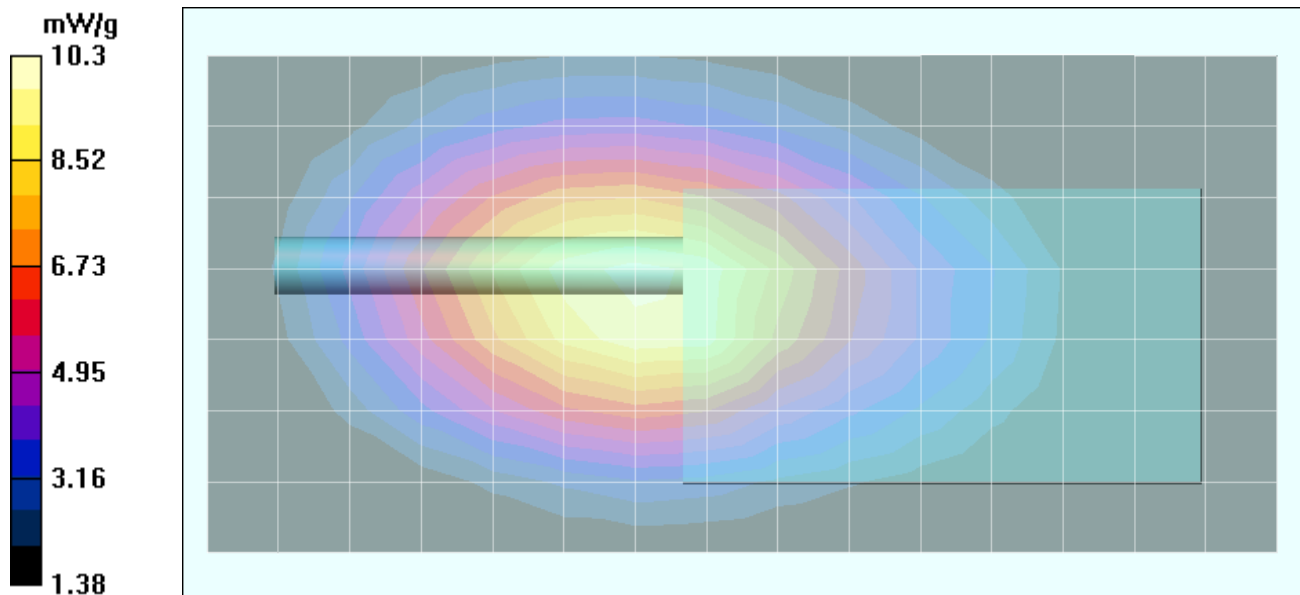
- Probe: ET3DV6 - SN1590; ConvF(7.7, 7.7, 7.7); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 14/05/2004
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x16x1):

Measurement grid: dx=15mm, dy=15mm

Body-Worn - 1.0 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 115.0 V/m; Power Drift = -1.28 dB
Peak SAR (extrapolated) = 15 W/kg
SAR(1 g) = 9.83 mW/g; SAR(10 g) = 7.04 mW/g



Z-Axis Scan

