

|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/28/2005

# **Body-Worn SAR - 766.9875 MHz - NiMH IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.29 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M767 ( $\sigma = 0.92 \text{ mho/m}$ ;  $\epsilon_r = 54.3$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

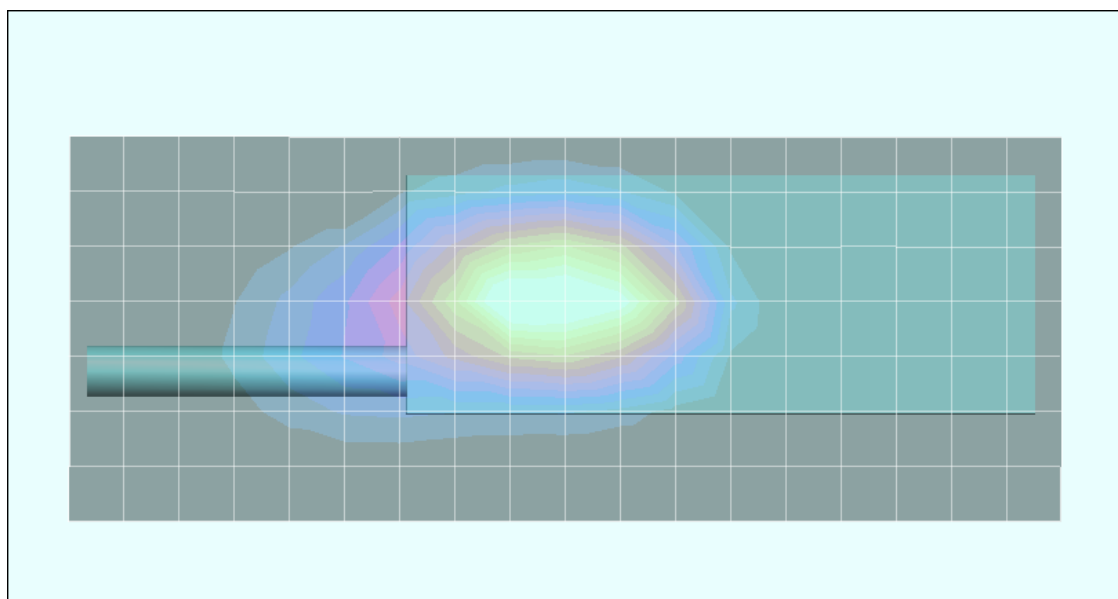
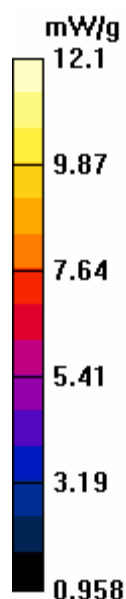
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 78.1 V/m; Power Drift = 0.545 dB

Peak SAR (extrapolated) = 21.1 W/kg

**SAR(1 g) = 11.3 mW/g; SAR(10 g) = 7.11 mW/g**



|                         |                                       |                |                       |
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| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/28/2005

## Body-Worn SAR - 766.9875 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.22 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):

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

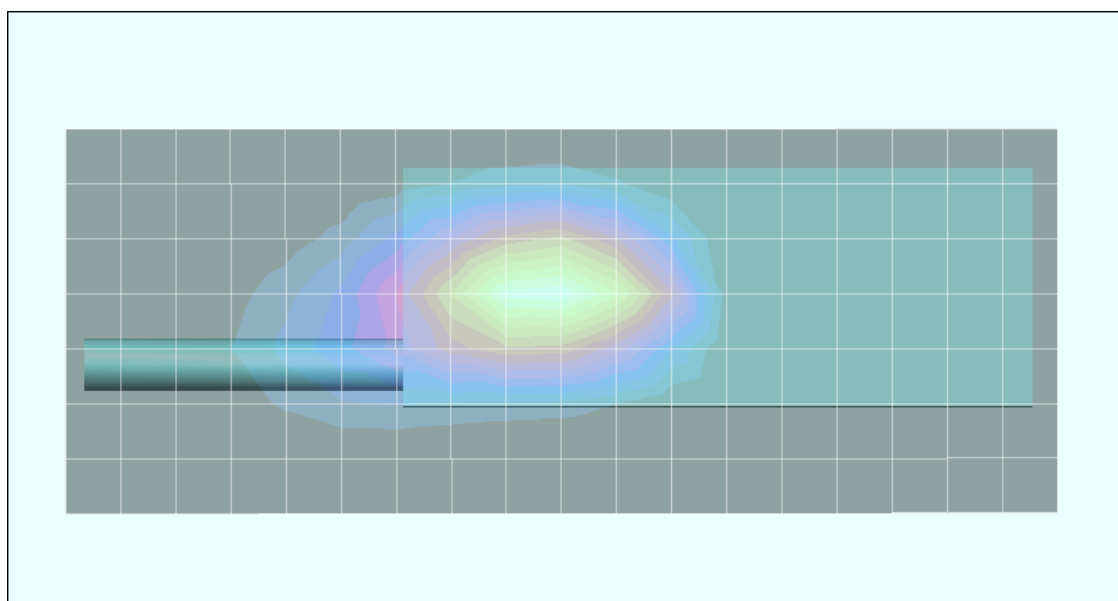
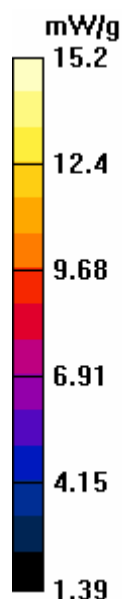
### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 85.8 V/m; Power Drift = -0.0292 dB

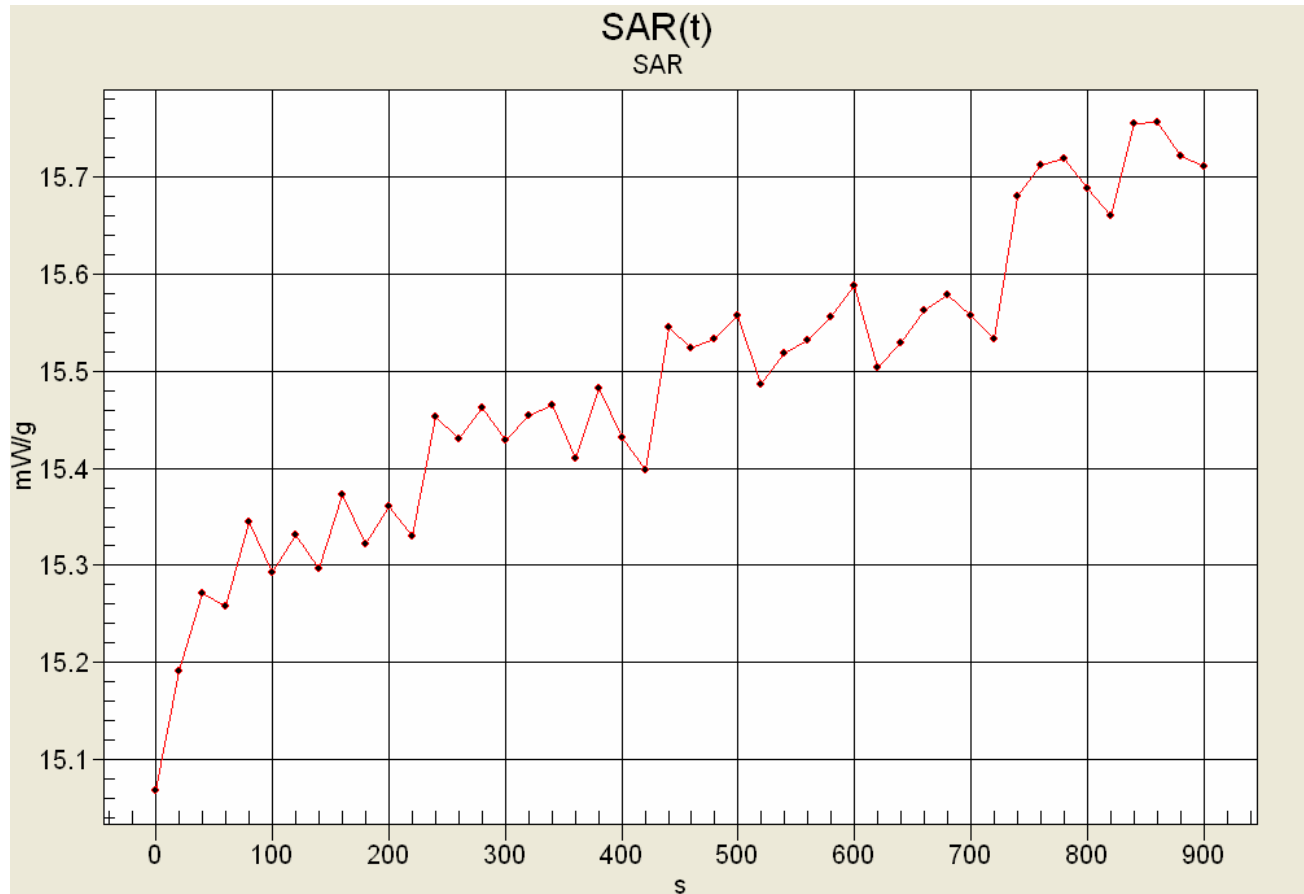
Peak SAR (extrapolated) = 24.7 W/kg

SAR(1 g) = 14.3 mW/g; SAR(10 g) = 9.37 mW/g



## SAR-versus-Time Power Droop Evaluation

DUT with Belt-Clip & Speaker-Microphone accessories  
NiMH NIS Battery  
Quarter-Wave Antenna  
Mid Channel (766.9875 MHz)



Start SAR: 15.0683 mW/g  
Max. SAR: 15.7561 mW/g (0.1938dB)  
Highest SAR after 340s: 15.4649 mW/g (0.1128 dB)  
(340s = Zoom Scan Duration)

Date Tested: 07/28/2005

# **Body-Worn SAR - 766.9875 MHz - NiCd IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.21 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

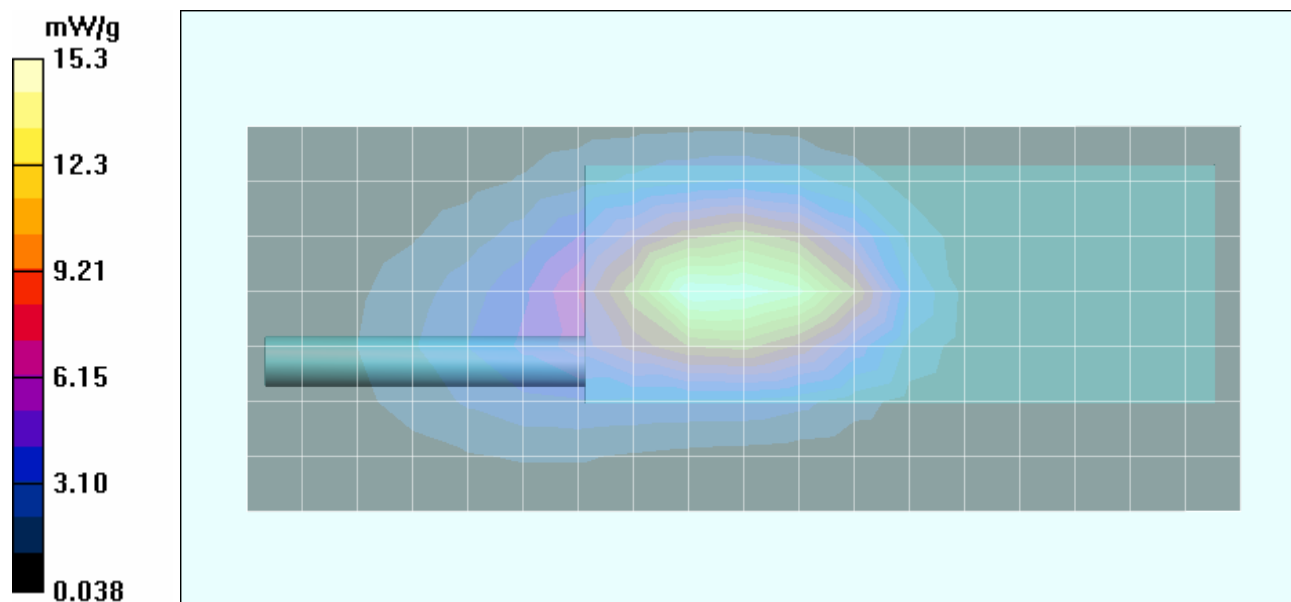
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 78.4 V/m; Power Drift = 0.201 dB

Peak SAR (extrapolated) = 21.1 W/kg

**SAR(1 g) = 12.2 mW/g; SAR(10 g) = 8.05 mW/g**



|                         |                                       |                |                 |
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| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3  |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093      |
|                         |                                       |                | IC RSS-102      |

Date Tested: 07/28/2005

## Body-Worn SAR - 766.9875 MHz - NiCd NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.35 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):

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

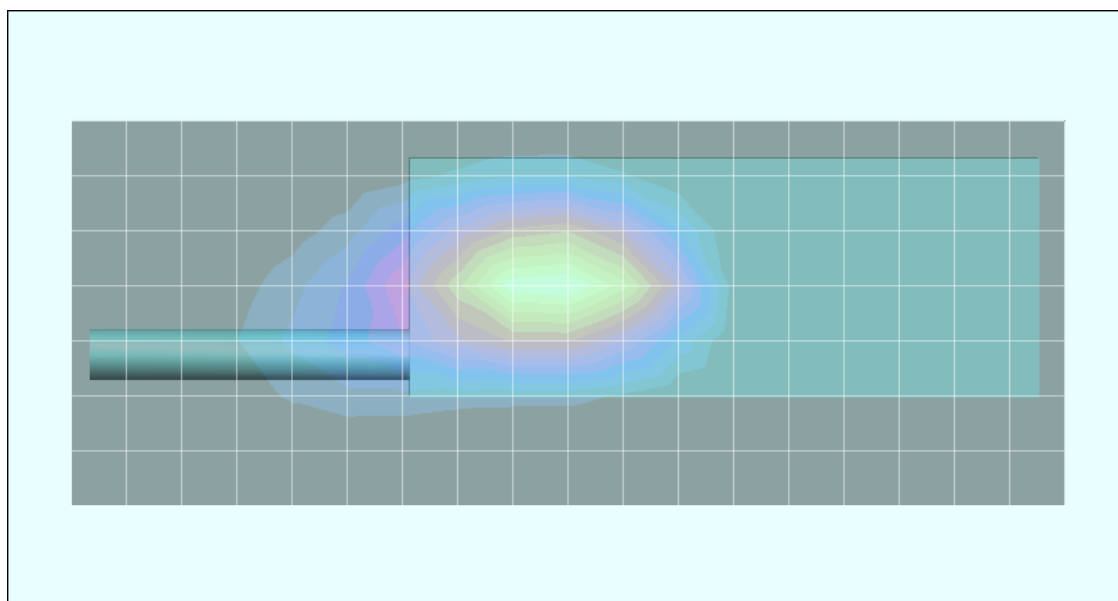
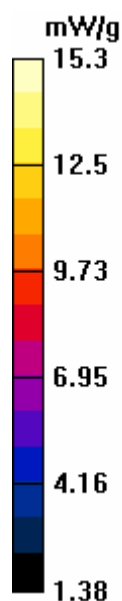
### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 87.8 V/m; Power Drift = 0.104 dB

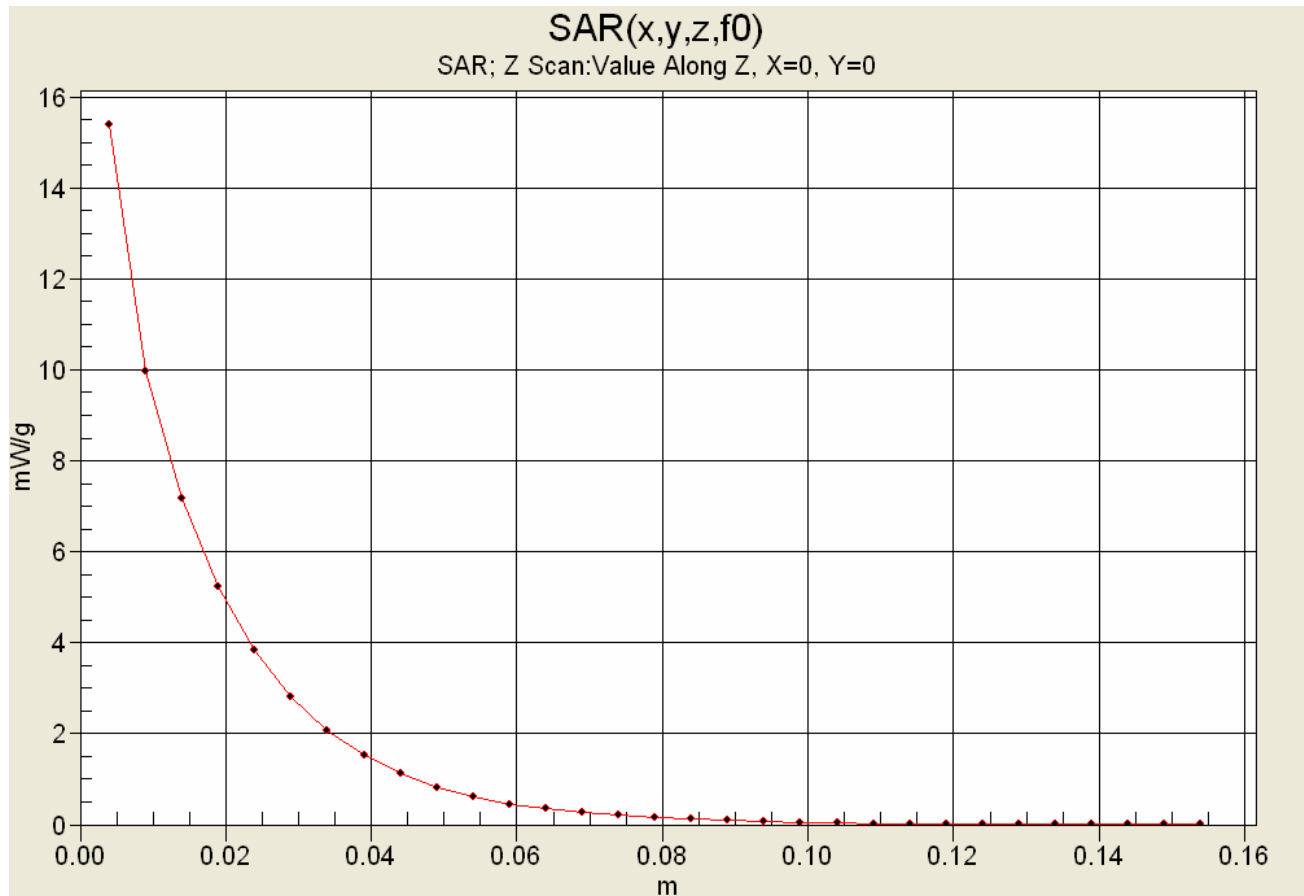
Peak SAR (extrapolated) = 24.8 W/kg

SAR(1 g) = 14.4 mW/g; SAR(10 g) = 9.46 mW/g



|                         |                                   |                                                                                                                      |       |                                                   |          |        |             |                                                                                       |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|----------|--------|-------------|---------------------------------------------------------------------------------------|
| Applicant:              | M/A-COM, Inc.                     | Model:                                                                                                               | P7200 | FCC ID:                                           | BV8P7200 | IC ID: | 3670A-P7200 |  |
| DUT Type:               | Portable FM PTT Radio Transceiver |                                                                                                                      |       | 764-776MHz / 794-806MHz / 806-824MHz / 851-869MHz |          |        |             |                                                                                       |
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## Z-Axis Scan



Date Tested: 07/28/2005

## Body-Worn SAR - 764.0125 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.38 dBm (Conducted)

Frequency: 764.0125 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x19x1):

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

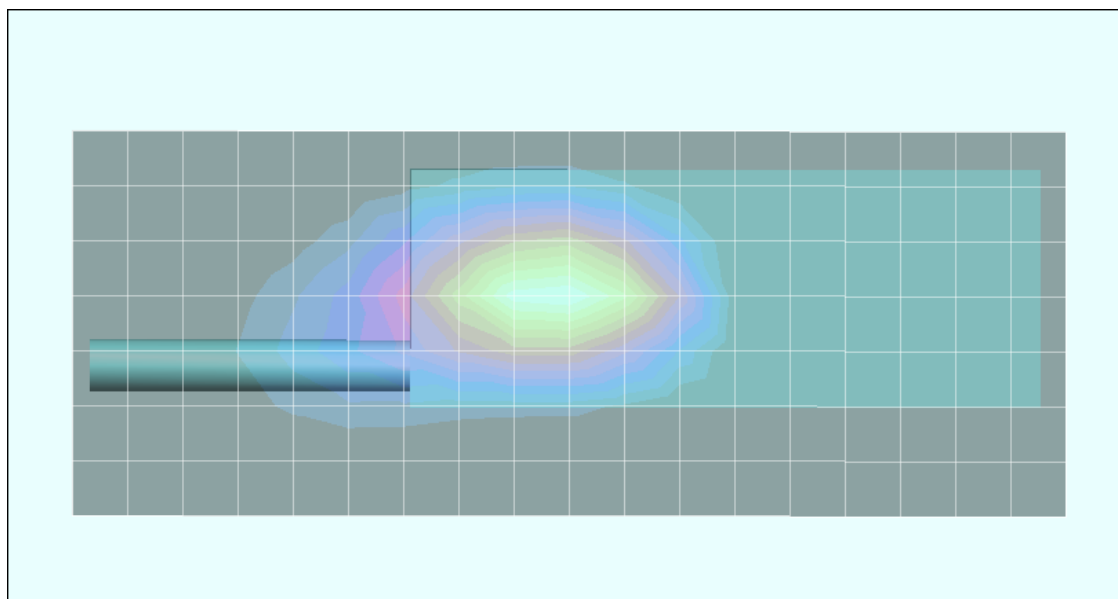
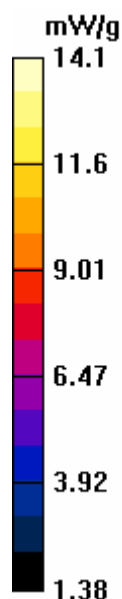
### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 86.1 V/m; Power Drift = 0.207 dB

Peak SAR (extrapolated) = 23.1 W/kg

SAR(1 g) = 13.5 mW/g; SAR(10 g) = 8.88 mW/g



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
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| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/28/2005

## Body-Worn SAR - 775.9875 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.12 dBm (Conducted)

Frequency: 775.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M767 ( $\sigma = 0.92 \text{ mho/m}$ ;  $\epsilon_r = 54.3$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x19x1):

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

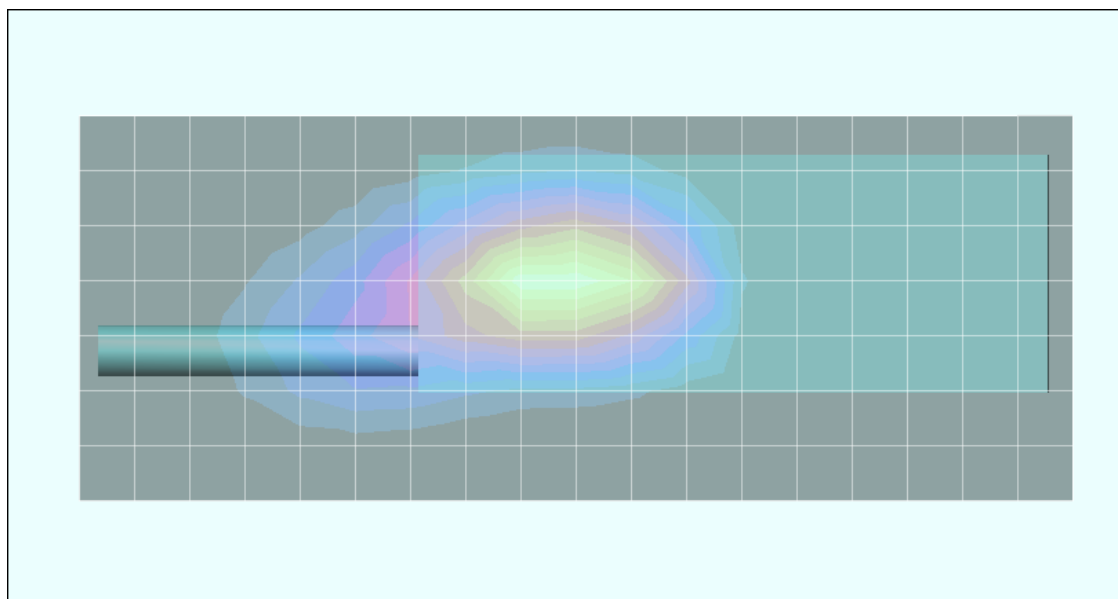
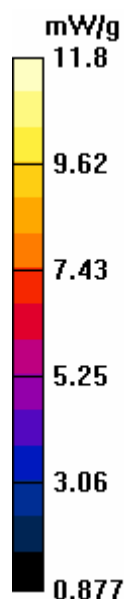
### Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 75.6 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 19.2 W/kg

SAR(1 g) = 11.1 mW/g; SAR(10 g) = 7.13 mW/g



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/27/2005

## Body-Worn SAR - 796.9875 MHz - NiMH IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 24.8 °C; Fluid Temp: 22.3 °C; Barometric Pressure: 102.2 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.30 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M797 ( $\sigma = 0.94$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):

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

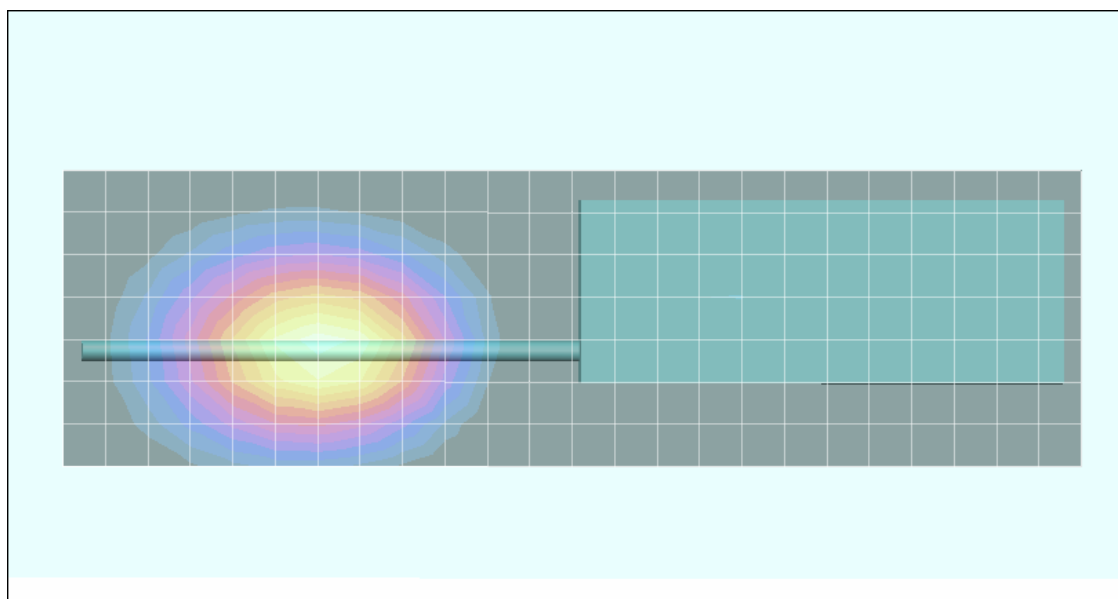
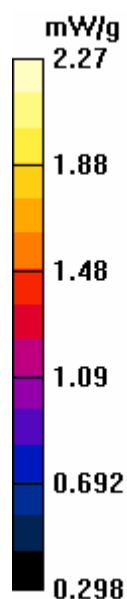
### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 13.1 V/m; Power Drift = -0.137 dB

Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 2.17 mW/g; SAR(10 g) = 1.53 mW/g



|                         |                                   |                                                                                                                      |       |                                                   |          |        |             |                                                                                       |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|----------|--------|-------------|---------------------------------------------------------------------------------------|
| Applicant:              | M/A-COM, Inc.                     | Model:                                                                                                               | P7200 | FCC ID:                                           | BV8P7200 | IC ID: | 3670A-P7200 |  |
| DUT Type:               | Portable FM PTT Radio Transceiver |                                                                                                                      |       | 764-776MHz / 794-806MHz / 806-824MHz / 851-869MHz |          |        |             |                                                                                       |
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Date Tested: 07/27/2005

# **Body-Worn SAR - 796.9875 MHz - NiMH NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.8 °C; Fluid Temp: 22.3 °C; Barometric Pressure: 102.2 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.16 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M797 ( $\sigma = 0.94$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

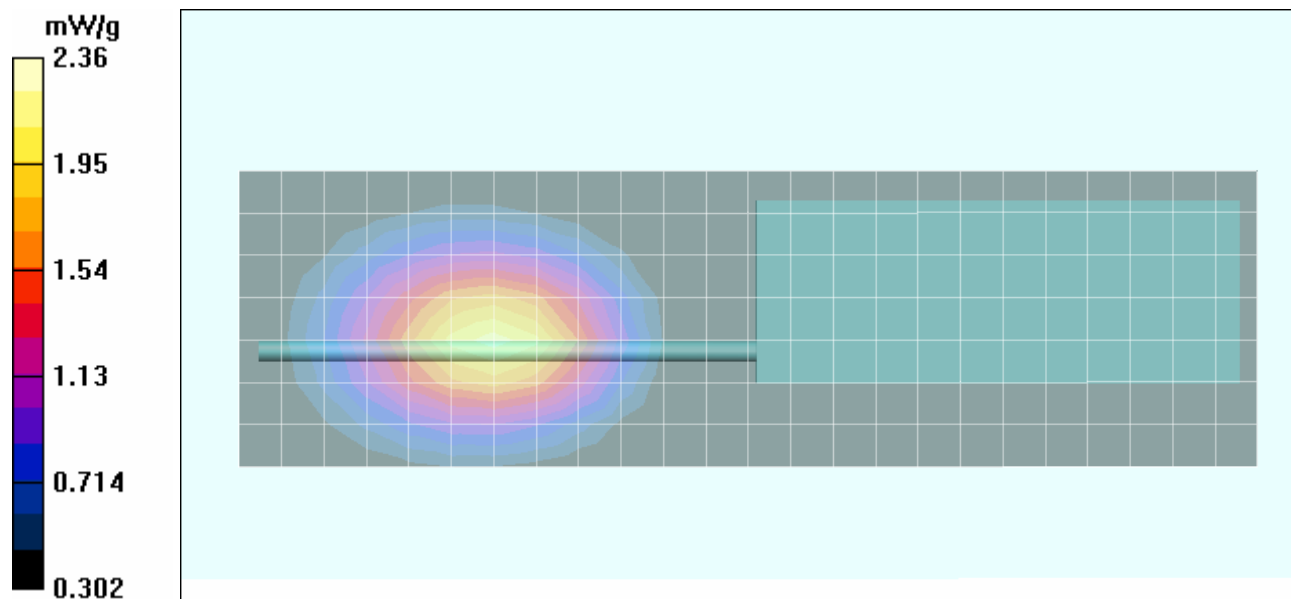
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 13.1 V/m; Power Drift = -0.429 dB

Peak SAR (extrapolated) = 3.41 W/kg

**SAR(1 g) = 2.26 mW/g; SAR(10 g) = 1.6 mW/g**



|                         |                                       |                |                       |
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| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/27/2005

# **Body-Worn SAR - 796.9875 MHz - NiCd IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.8 °C; Fluid Temp: 22.3 °C; Barometric Pressure: 102.2 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.31 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M797 ( $\sigma = 0.94$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

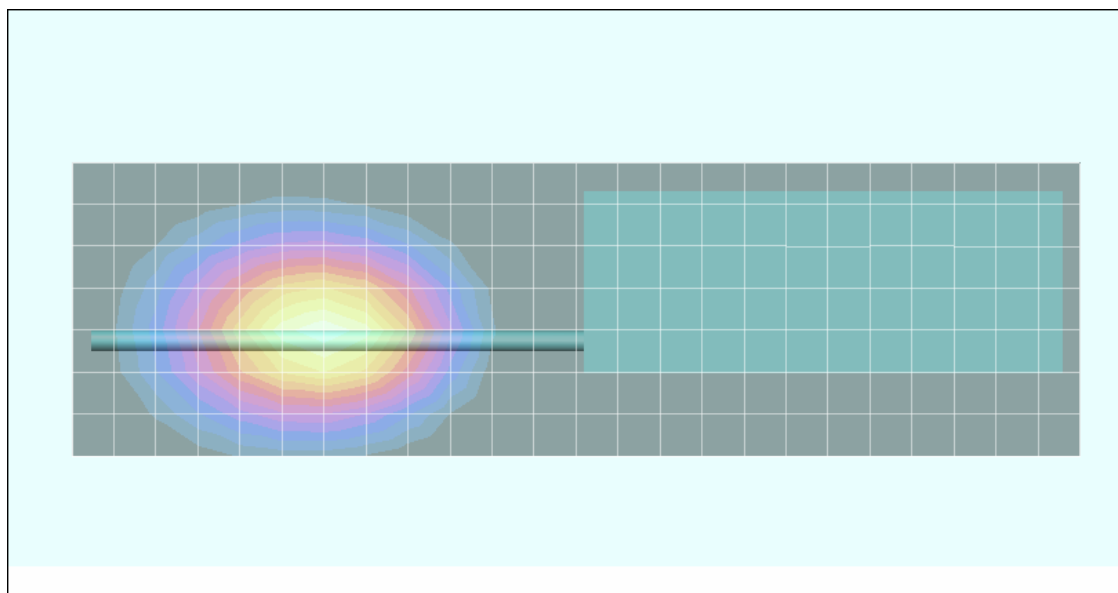
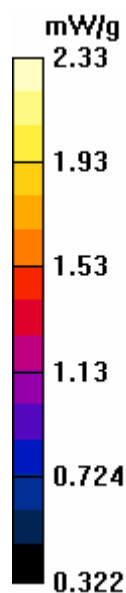
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 13.7 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 3.36 W/kg

**SAR(1 g) = 2.22 mW/g; SAR(10 g) = 1.57 mW/g**



|                         |                                   |                                                                                                                      |       |                                                   |          |        |             |                                                                                       |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|----------|--------|-------------|---------------------------------------------------------------------------------------|
| Applicant:              | M/A-COM, Inc.                     | Model:                                                                                                               | P7200 | FCC ID:                                           | BV8P7200 | IC ID: | 3670A-P7200 |  |
| DUT Type:               | Portable FM PTT Radio Transceiver |                                                                                                                      |       | 764-776MHz / 794-806MHz / 806-824MHz / 851-869MHz |          |        |             |                                                                                       |
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|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/27/2005

# **Body-Worn SAR - 796.9875 MHz - NiCd NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.8 °C; Fluid Temp: 22.3 °C; Barometric Pressure: 102.2 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.35 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M797 ( $\sigma = 0.94$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

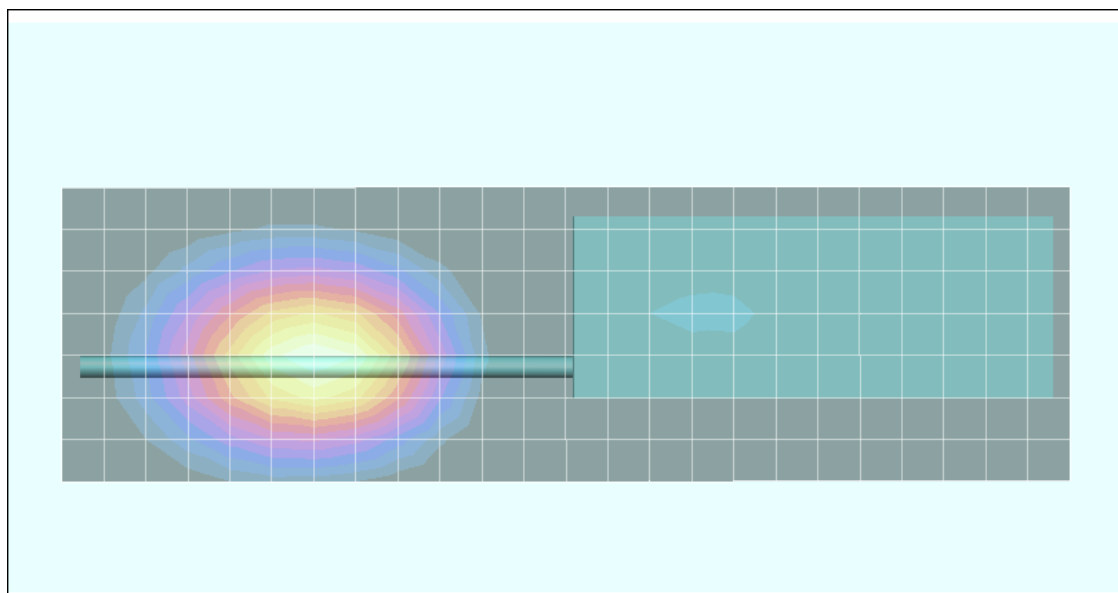
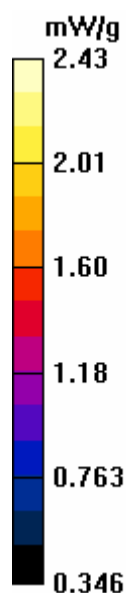
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 13.4 V/m; Power Drift = 0.0387 dB

Peak SAR (extrapolated) = 3.49 W/kg

**SAR(1 g) = 2.32 mW/g; SAR(10 g) = 1.65 mW/g**



|                         |                                   |                                                                                                                      |       |                                                   |          |        |             |                                                                                       |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|----------|--------|-------------|---------------------------------------------------------------------------------------|
| Applicant:              | M/A-COM, Inc.                     | Model:                                                                                                               | P7200 | FCC ID:                                           | BV8P7200 | IC ID: | 3670A-P7200 |  |
| DUT Type:               | Portable FM PTT Radio Transceiver |                                                                                                                      |       | 764-776MHz / 794-806MHz / 806-824MHz / 851-869MHz |          |        |             |                                                                                       |
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Date Tested: 07/27/2005

# **Body-Worn SAR - 796.9875 MHz - NiMH IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.8 °C; Fluid Temp: 22.3 °C; Barometric Pressure: 102.2 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.38 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M797 ( $\sigma = 0.94$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

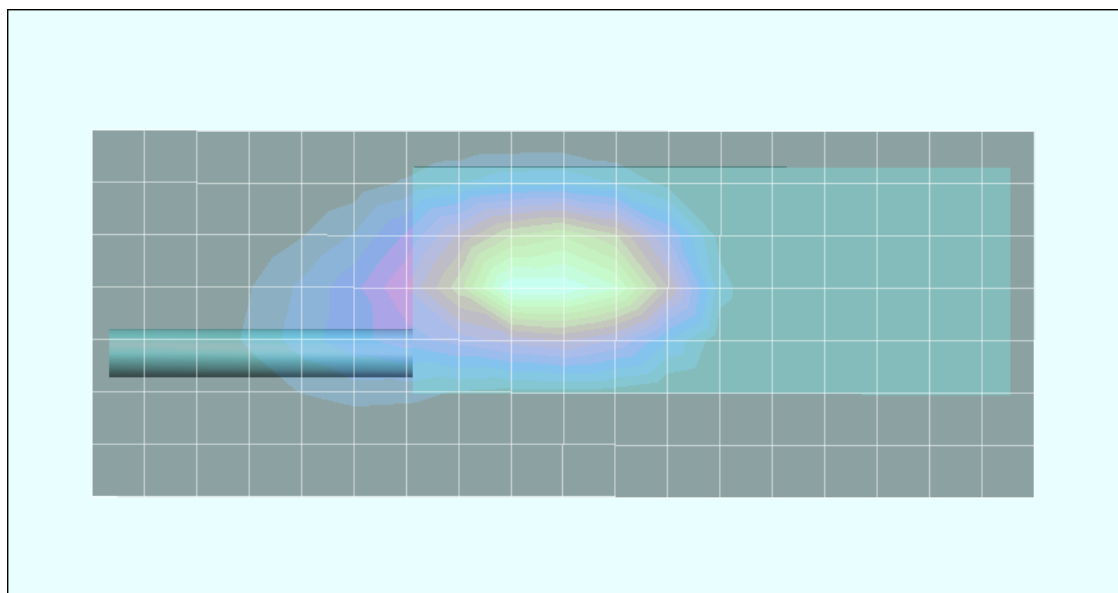
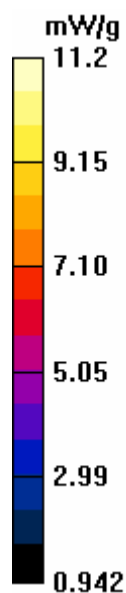
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 77.1 V/m; Power Drift = 0.0365 dB

Peak SAR (extrapolated) = 18.6 W/kg

**SAR(1 g) = 10.7 mW/g; SAR(10 g) = 7.02 mW/g**



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/27/2005

# **Body-Worn SAR - 796.9875 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.8 °C; Fluid Temp: 22.3 °C; Barometric Pressure: 102.2 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.22 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M797 ( $\sigma = 0.94$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

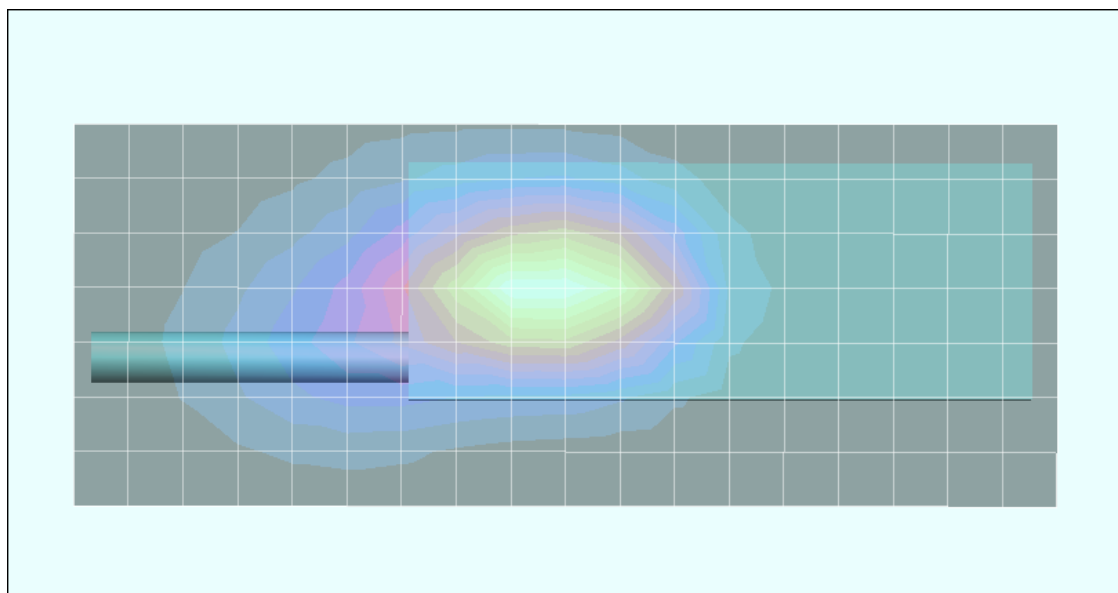
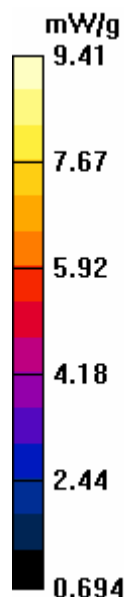
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 71.5 V/m; Power Drift = 0.103 dB

Peak SAR (extrapolated) = 15.4 W/kg

**SAR(1 g) = 8.98 mW/g; SAR(10 g) = 5.79 mW/g**



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/27/2005

## Body-Worn SAR - 796.9875 MHz - NiCd IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 24.8 °C; Fluid Temp: 22.3 °C; Barometric Pressure: 102.2 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.27 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M797 ( $\sigma = 0.94$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):

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

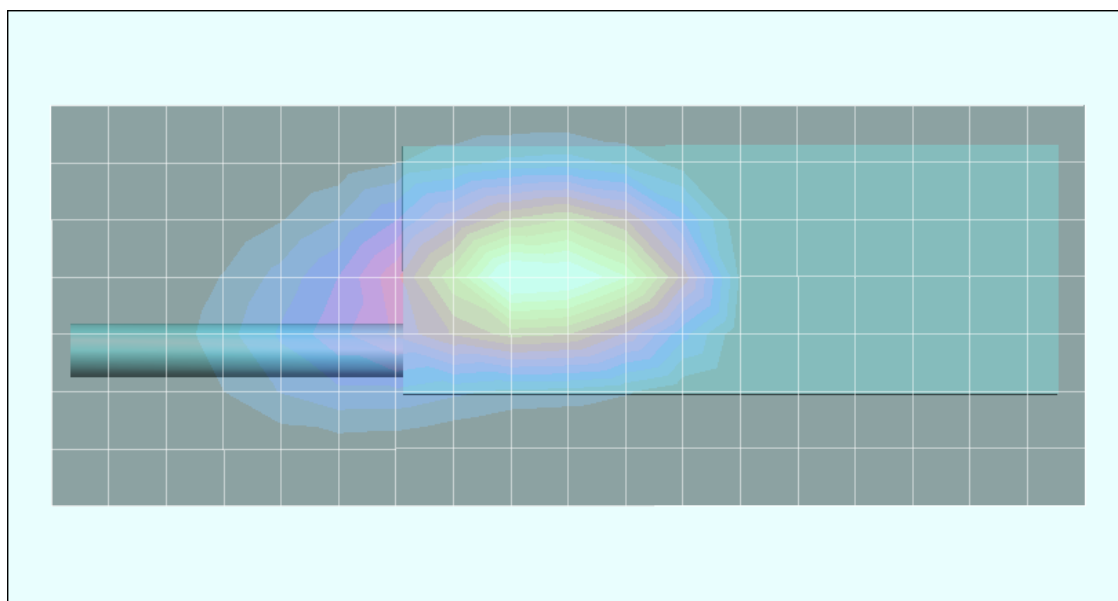
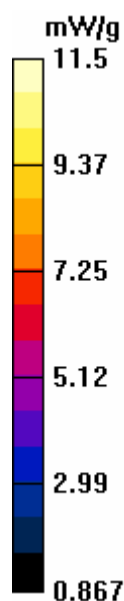
### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 73.2 V/m; Power Drift = -0.0757 dB

Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 10.6 mW/g; SAR(10 g) = 6.96 mW/g



|                         |                                   |                                                                                                                      |       |                                                   |          |        |             |                                                                                       |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|----------|--------|-------------|---------------------------------------------------------------------------------------|
| Applicant:              | M/A-COM, Inc.                     | Model:                                                                                                               | P7200 | FCC ID:                                           | BV8P7200 | IC ID: | 3670A-P7200 |  |
| DUT Type:               | Portable FM PTT Radio Transceiver |                                                                                                                      |       | 764-776MHz / 794-806MHz / 806-824MHz / 851-869MHz |          |        |             |                                                                                       |
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|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/27/2005

# **Body-Worn SAR - 796.9875 MHz - NiCd NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.8 °C; Fluid Temp: 22.3 °C; Barometric Pressure: 102.2 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.31 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M797 ( $\sigma = 0.94$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

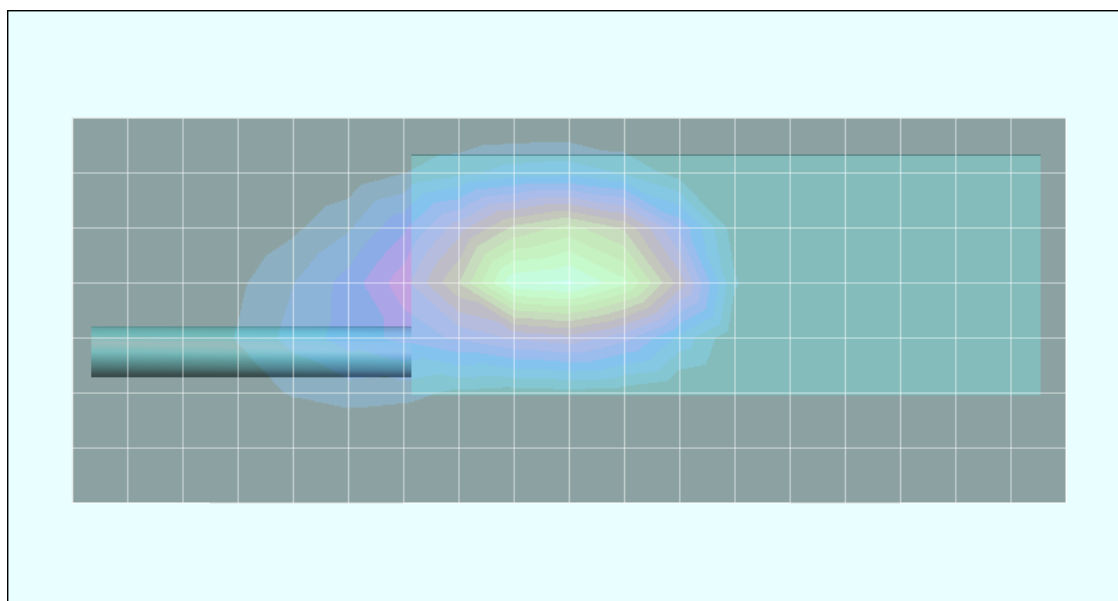
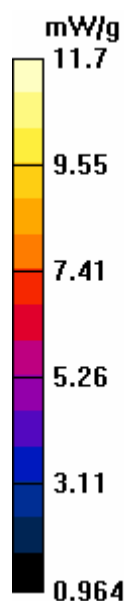
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

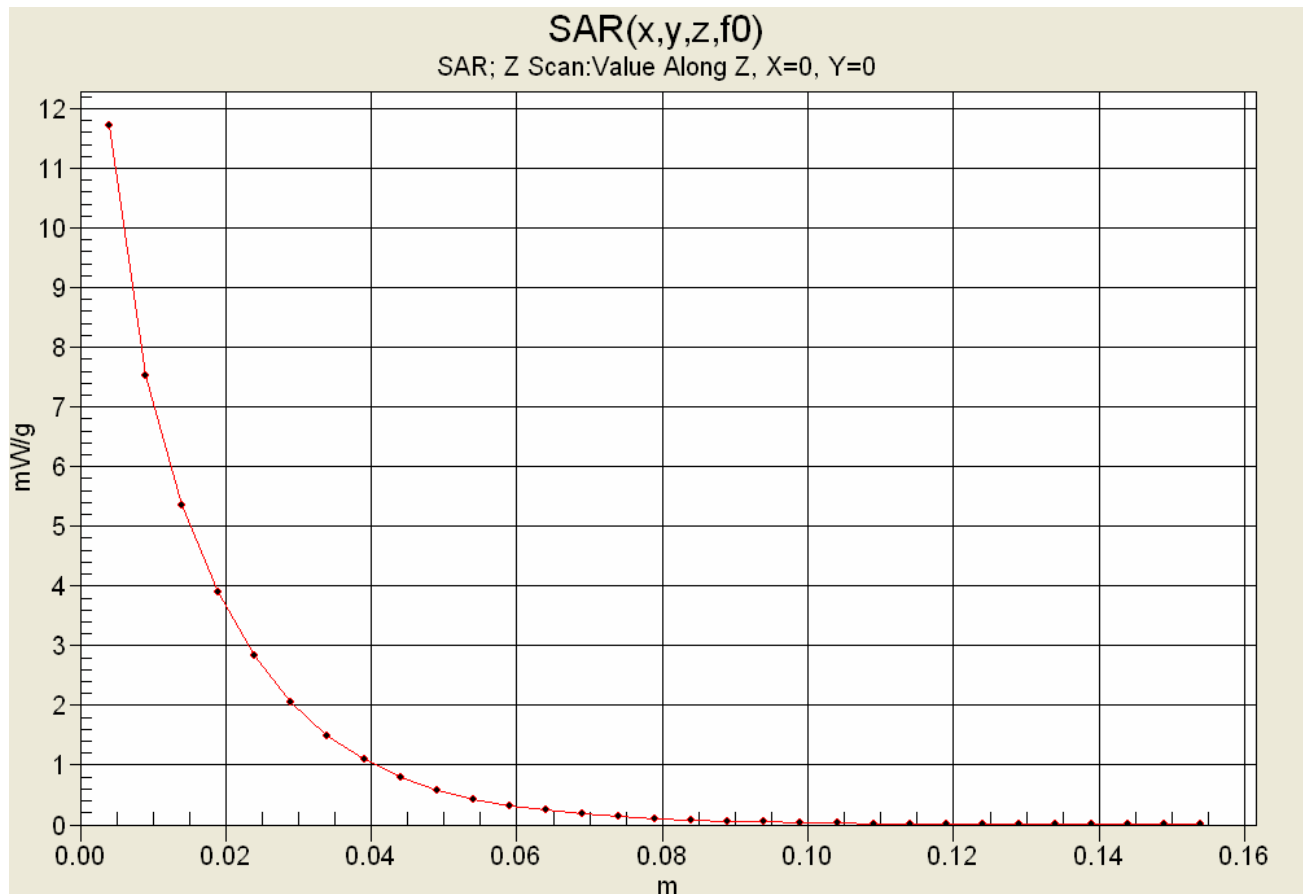
Reference Value = 78.2 V/m; Power Drift = 0.0709 dB

Peak SAR (extrapolated) = 18.8 W/kg

**SAR(1 g) = 11.1 mW/g; SAR(10 g) = 7.25 mW/g**



## Z-Axis Scan



Date Tested: 07/27/2005

# **Body-Worn SAR - 794.0125 MHz - NiCd NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.8 °C; Fluid Temp: 22.3 °C; Barometric Pressure: 102.2 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.42 dBm (Conducted)

Frequency: 794.0125 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M797 ( $\sigma = 0.94$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x19x1):**

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

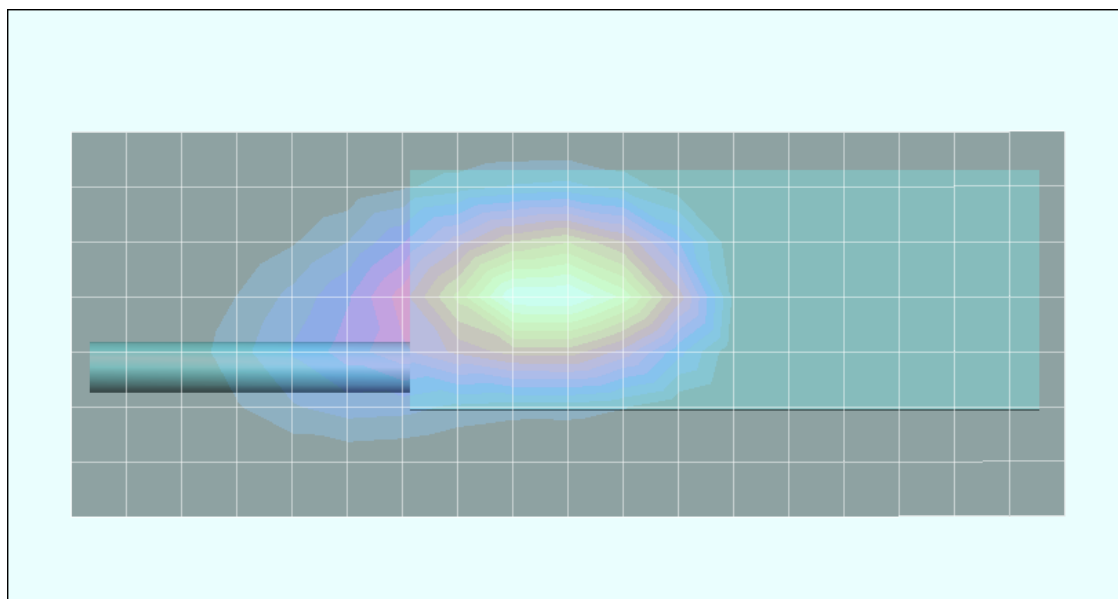
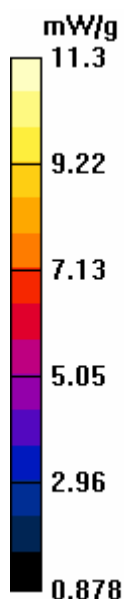
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 74.9 V/m; Power Drift = 0.0629 dB

Peak SAR (extrapolated) = 18.6 W/kg

**SAR(1 g) = 10.7 mW/g; SAR(10 g) = 6.95 mW/g**



|                         |                                       |                |                 |
|-------------------------|---------------------------------------|----------------|-----------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005 |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3  |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093      |
|                         |                                       |                | IC RSS-102      |

Date Tested: 07/27/2005

# **Body-Worn SAR - 805.9875 MHz - NiCd NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.8 °C; Fluid Temp: 22.3 °C; Barometric Pressure: 102.2 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.12 dBm (Conducted)

Frequency: 805.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M797 ( $\sigma = 0.94 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x19x1):**

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

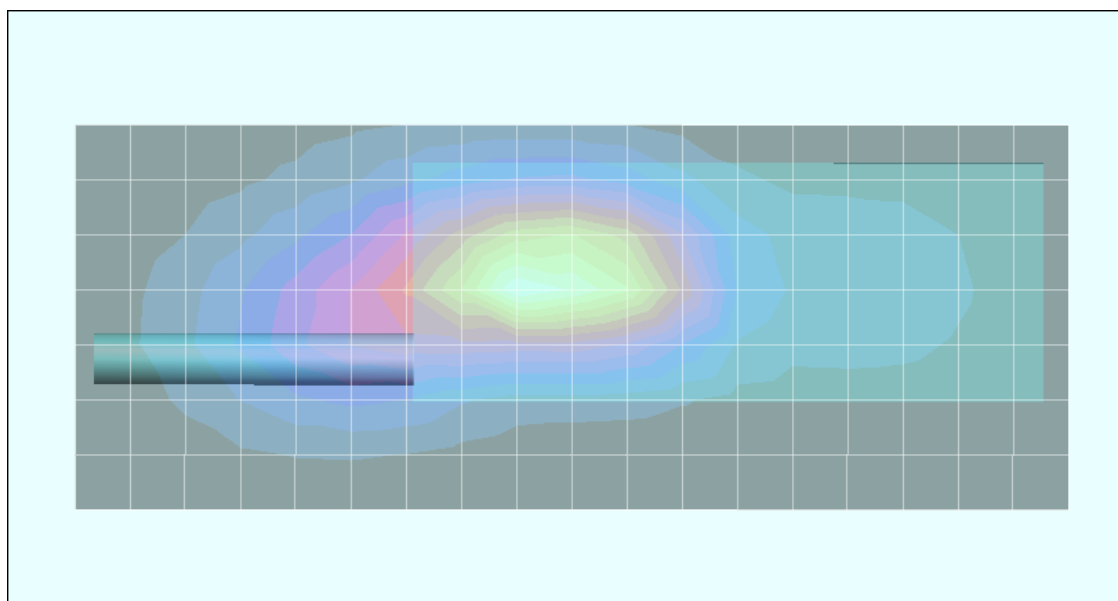
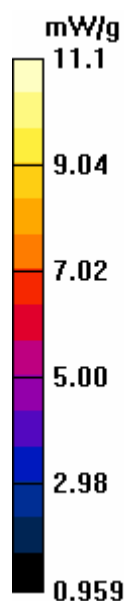
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 79.8 V/m; Power Drift = 0.163 dB

Peak SAR (extrapolated) = 15.4 W/kg

**SAR(1 g) = 10.1 mW/g; SAR(10 g) = 6.84 mW/g**



Date Tested: 07/25/2005

# **Body-Worn SAR - 815.0000 MHz - NiMH IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 23.6 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.68 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M815 ( $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

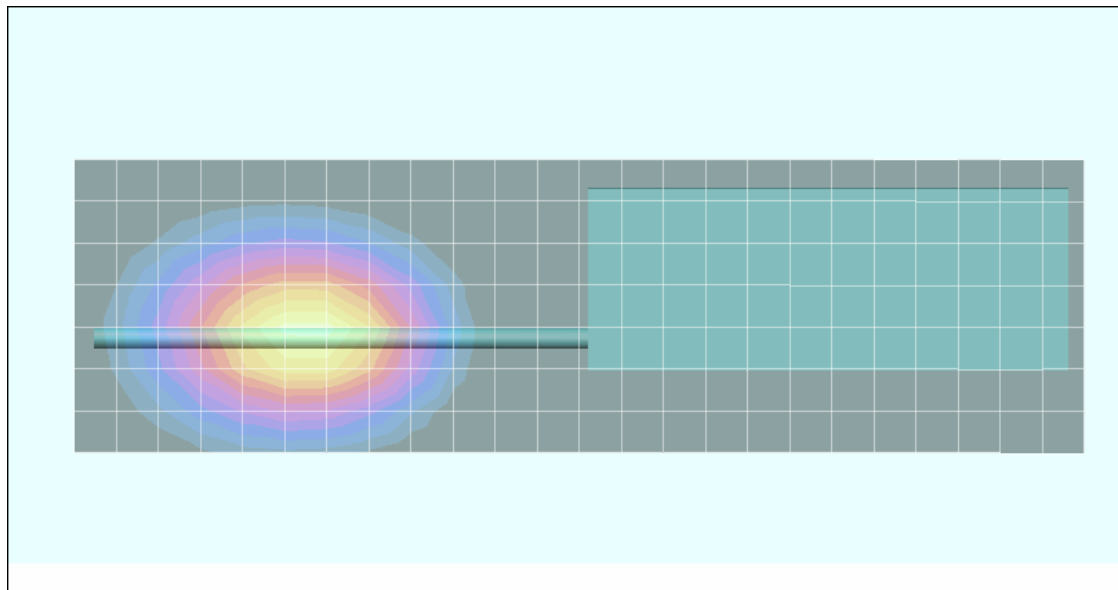
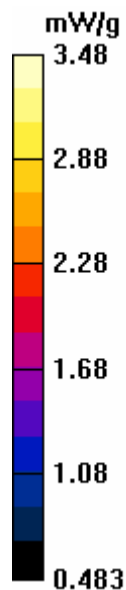
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 12.6 V/m; Power Drift = 0.237 dB

Peak SAR (extrapolated) = 4.26 W/kg

**SAR(1 g) = 3.32 mW/g; SAR(10 g) = 2.43 mW/g**



Date Tested: 07/25/2005

# **Body-Worn SAR - 815.0000 MHz - NiMH NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 23.6 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.62 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M815 ( $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

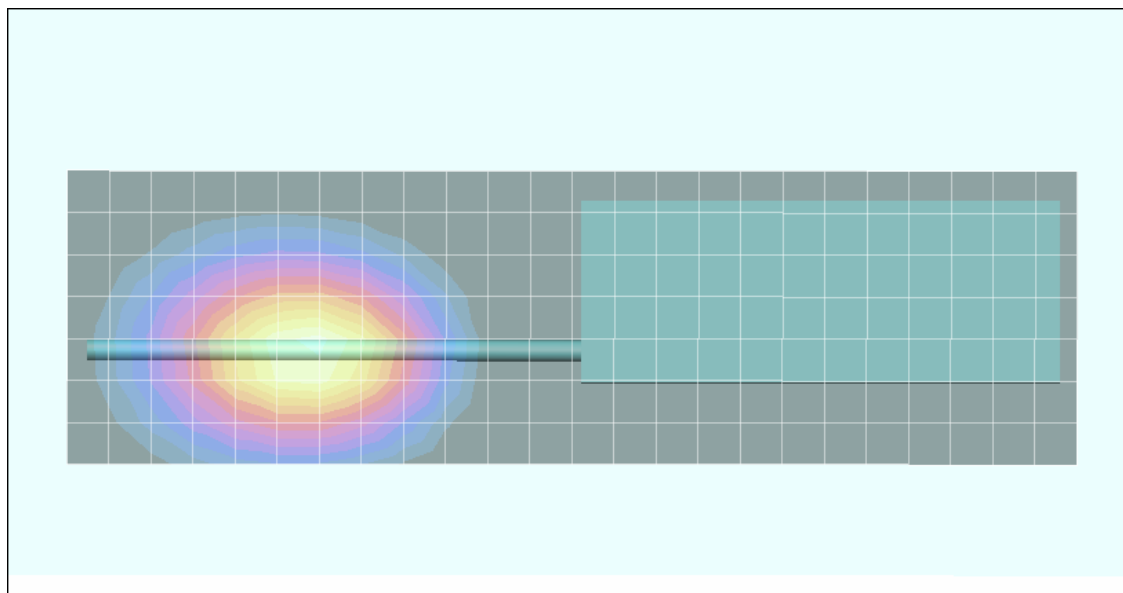
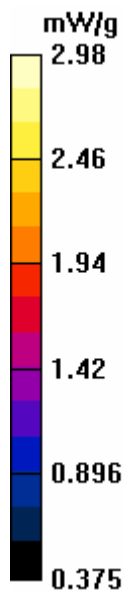
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 8.89 V/m; Power Drift = 0.308 dB

Peak SAR (extrapolated) = 3.64 W/kg

**SAR(1 g) = 2.82 mW/g; SAR(10 g) = 2.06 mW/g**



Date Tested: 07/25/2005

# **Body-Worn SAR - 815.0000 MHz - NiCd IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 23.6 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.66 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M815 ( $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

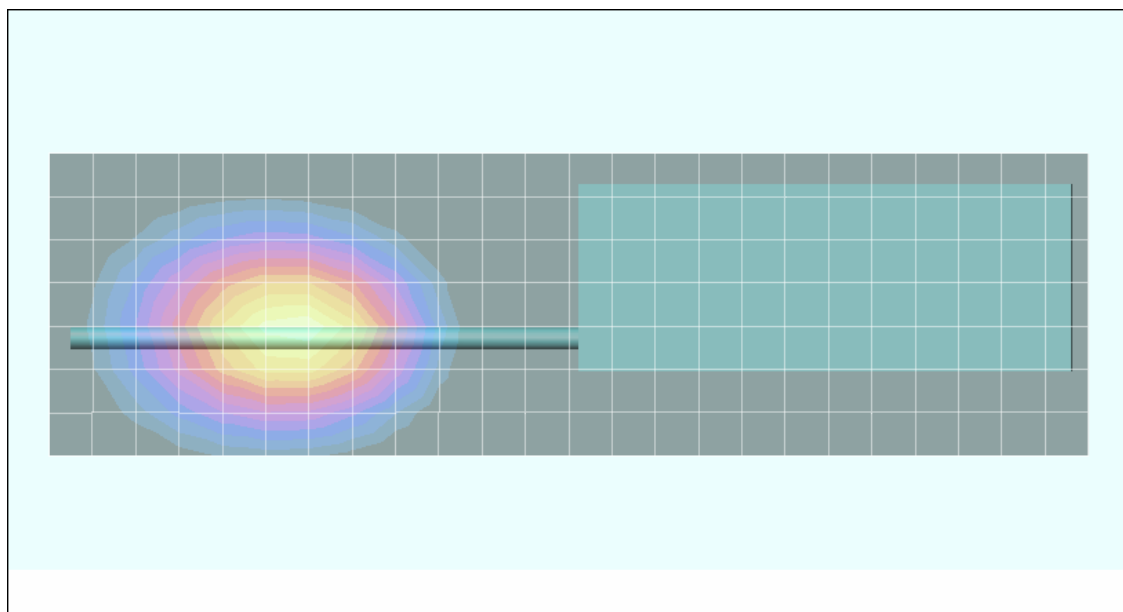
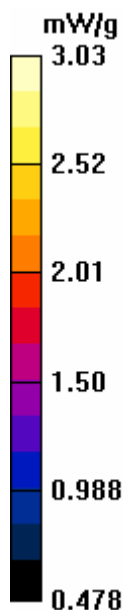
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 9.24 V/m; Power Drift = -0.0351 dB

Peak SAR (extrapolated) = 3.63 W/kg

**SAR(1 g) = 2.86 mW/g; SAR(10 g) = 2.11 mW/g**



|                         |                                       |                |                 |
|-------------------------|---------------------------------------|----------------|-----------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005 |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3  |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093      |
|                         |                                       |                | IC RSS-102      |

Date Tested: 07/25/2005

# **Body-Worn SAR - 815.0000 MHz - NiCd NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 23.6 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.61 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M815 ( $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 54.4$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

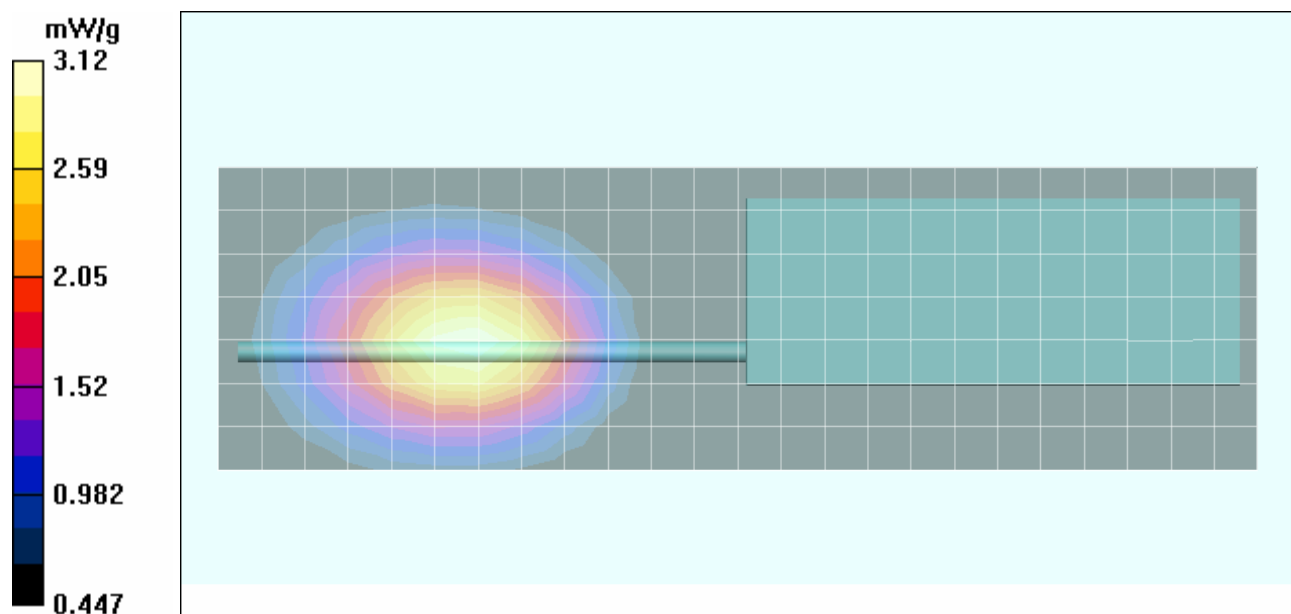
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 13.4 V/m; Power Drift = -0.165 dB

Peak SAR (extrapolated) = 3.81 W/kg

**SAR(1 g) = 2.98 mW/g; SAR(10 g) = 2.18 mW/g**



|                         |                                   |                                                                                                                      |       |                                                   |          |        |             |                                                                                       |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|----------|--------|-------------|---------------------------------------------------------------------------------------|
| Applicant:              | M/A-COM, Inc.                     | Model:                                                                                                               | P7200 | FCC ID:                                           | BV8P7200 | IC ID: | 3670A-P7200 |  |
| DUT Type:               | Portable FM PTT Radio Transceiver |                                                                                                                      |       | 764-776MHz / 794-806MHz / 806-824MHz / 851-869MHz |          |        |             |                                                                                       |
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Date Tested: 07/25/2005

# **Body-Worn SAR - 815.0000 MHz - NiMH IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 23.6 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.73 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M815 ( $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

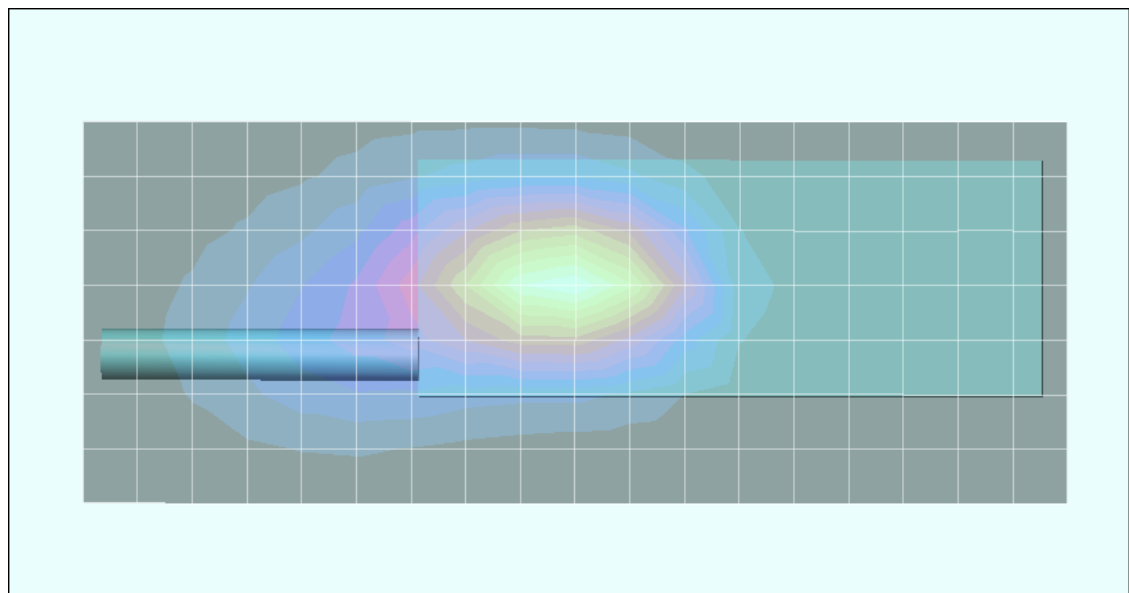
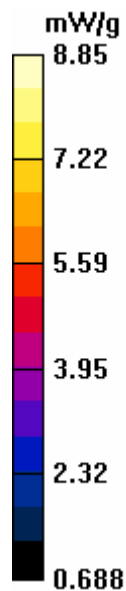
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 71.5 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 12.0 W/kg

**SAR(1 g) = 8.28 mW/g; SAR(10 g) = 5.48 mW/g**



Date Tested: 07/25/2005

# **Body-Worn SAR - 815.0000 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 23.6 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.62 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M815 ( $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

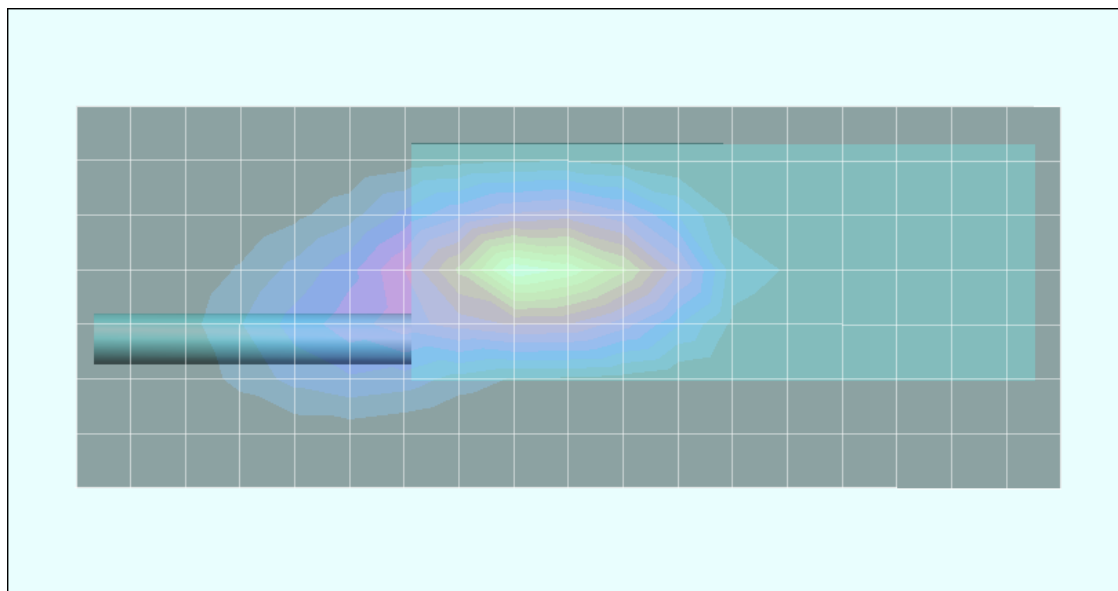
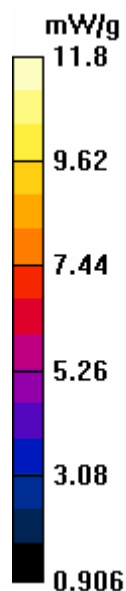
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 74.0 V/m; Power Drift = 0.151 dB

Peak SAR (extrapolated) = 16.4 W/kg

**SAR(1 g) = 11.0 mW/g; SAR(10 g) = 7.4 mW/g**



Date Tested: 07/25/2005

## Body-Worn SAR - 815.0000 MHz - NiCd IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 23.6 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.62 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M815 ( $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):

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

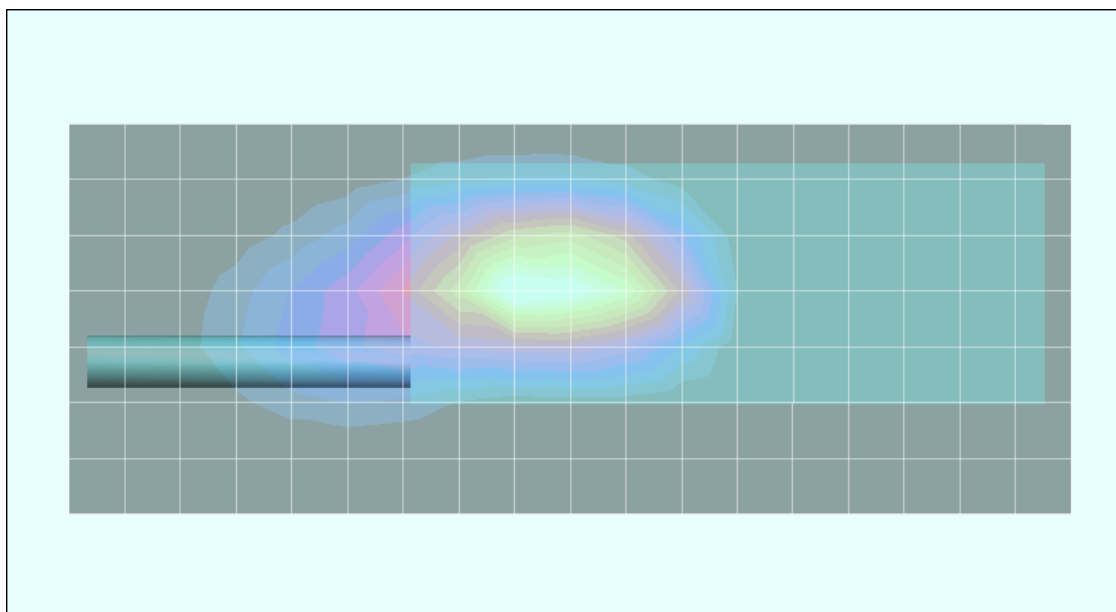
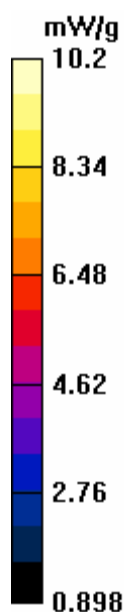
### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 79.1 V/m; Power Drift = -0.0236 dB

Peak SAR (extrapolated) = 14.0 W/kg

SAR(1 g) = 9.64 mW/g; SAR(10 g) = 6.49 mW/g



Date Tested: 07/25/2005

# **Body-Worn SAR - 815.0000 MHz - NiCd NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 23.6 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.70 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M815 ( $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

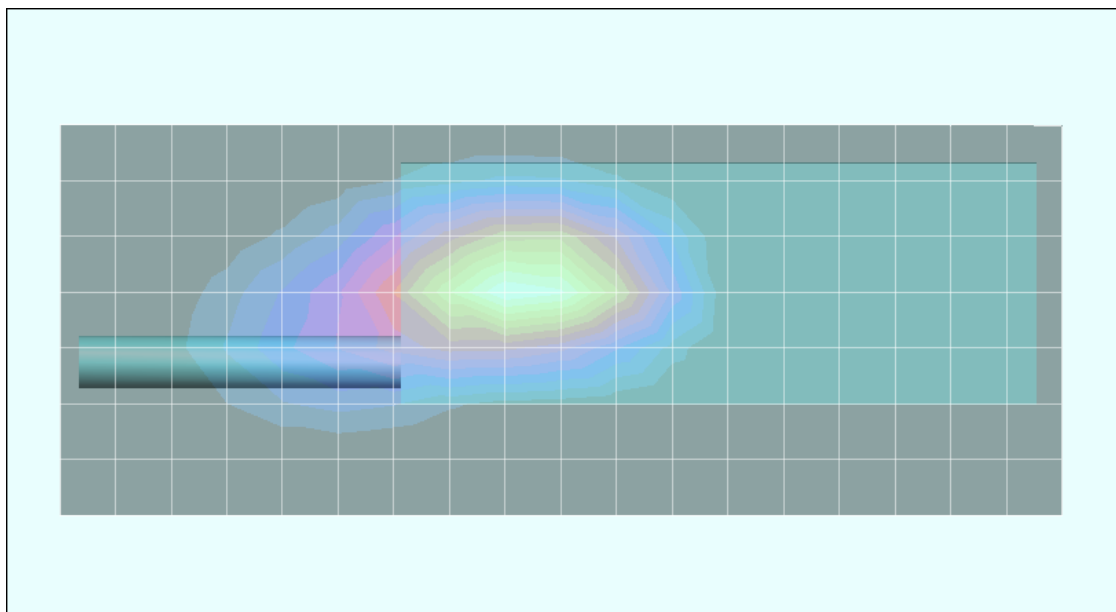
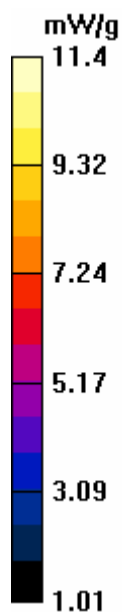
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 81.1 V/m; Power Drift = 0.119 dB

Peak SAR (extrapolated) = 15.9 W/kg

**SAR(1 g) = 10.5 mW/g; SAR(10 g) = 7.06 mW/g**



Date Tested: 07/25/2005

# **Body-Worn SAR - 806.0125 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 23.6 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.65 dBm (Conducted)

Frequency: 806.0125 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M815 ( $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x19x1):**

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

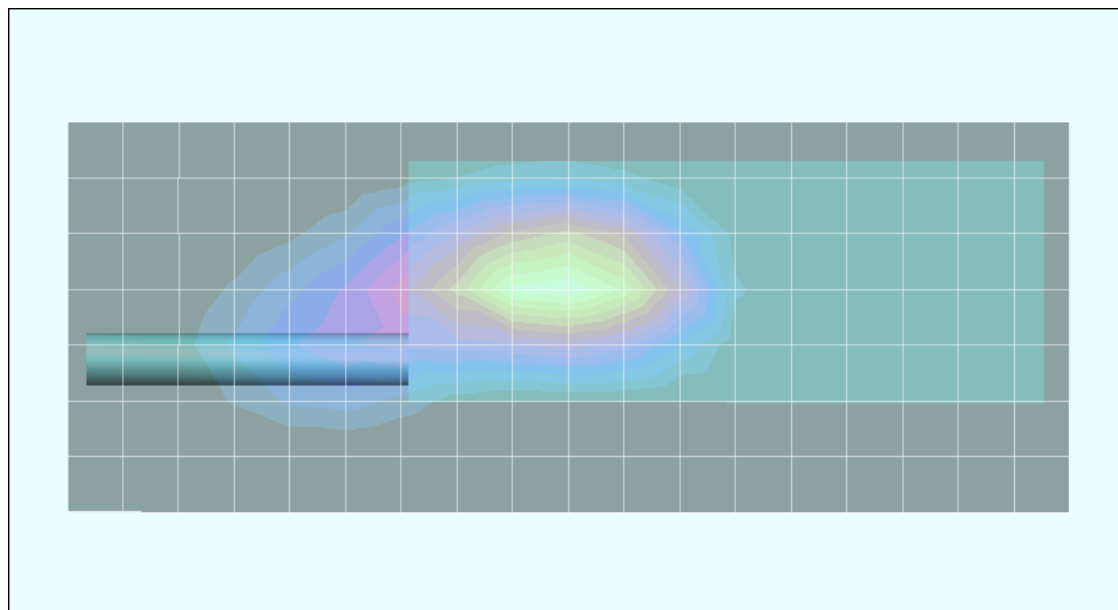
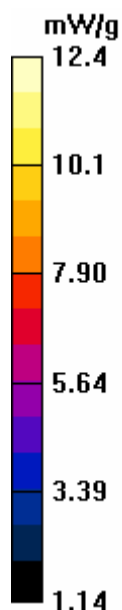
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:**

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

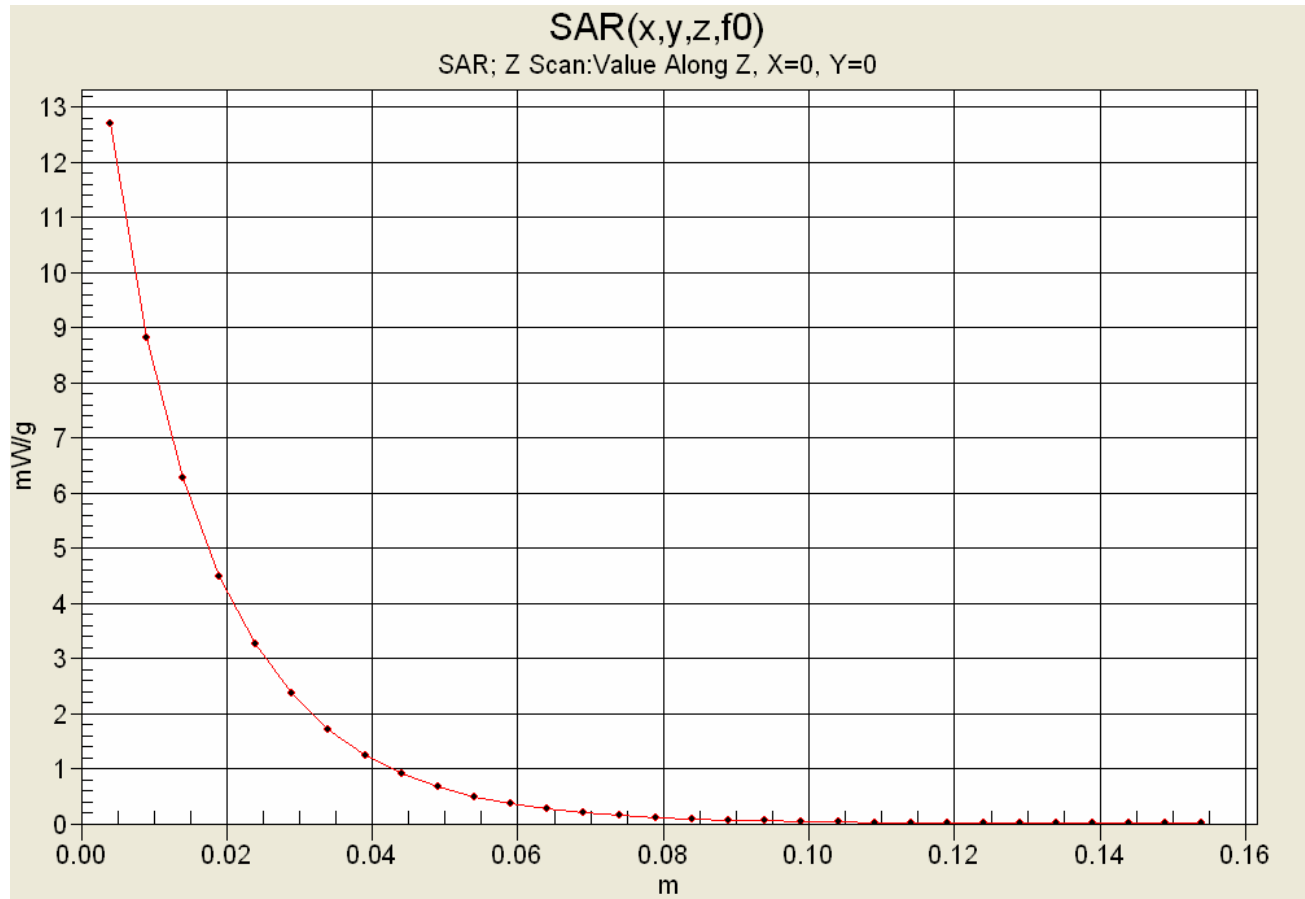
Reference Value = 84.0 V/m; Power Drift = 0.161 dB

Peak SAR (extrapolated) = 16.9 W/kg

**SAR(1 g) = 11.6 mW/g; SAR(10 g) = 7.79 mW/g**



## Z-Axis Scan



Date Tested: 07/25/2005

# **Body-Worn SAR - 823.9875 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 23.6 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.93 dBm (Conducted)

Frequency: 823.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M815 ( $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 54.4$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x19x1):**

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

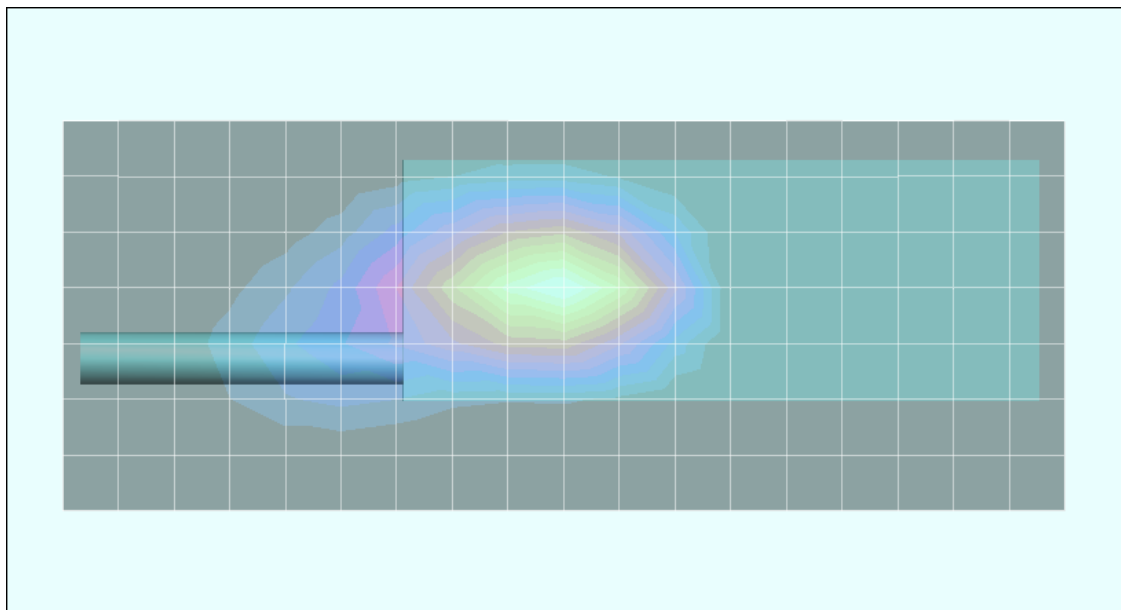
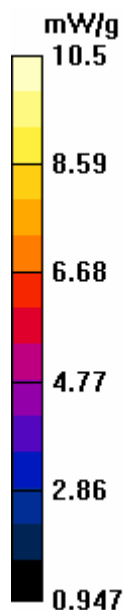
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 77.0 V/m; Power Drift = -0.203 dB

Peak SAR (extrapolated) = 14.8 W/kg

**SAR(1 g) = 9.85 mW/g; SAR(10 g) = 6.58 mW/g**



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/22/2005

# **Body-Worn SAR - 860.0000 MHz - NiMH IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.1 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 33%

Communication System: FM

RF Output Power: 34.85 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M860 ( $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

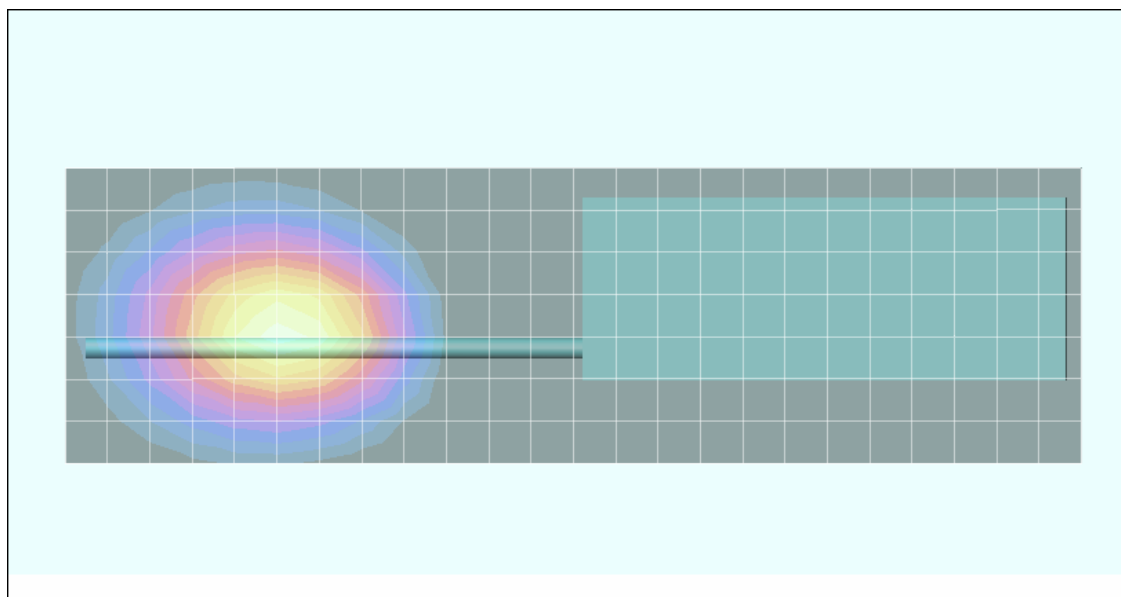
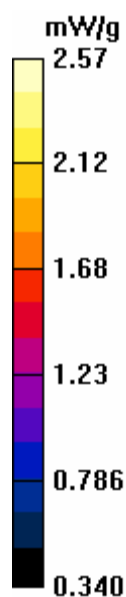
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 10.8 V/m; Power Drift = -0.279 dB

Peak SAR (extrapolated) = 3.15 W/kg

**SAR(1 g) = 2.44 mW/g; SAR(10 g) = 1.79 mW/g**



|                         |                                   |                                                                                                                      |       |                                                   |          |        |             |                                                                                       |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|----------|--------|-------------|---------------------------------------------------------------------------------------|
| Applicant:              | M/A-COM, Inc.                     | Model:                                                                                                               | P7200 | FCC ID:                                           | BV8P7200 | IC ID: | 3670A-P7200 |  |
| DUT Type:               | Portable FM PTT Radio Transceiver |                                                                                                                      |       | 764-776MHz / 794-806MHz / 806-824MHz / 851-869MHz |          |        |             |                                                                                       |
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Date Tested: 07/22/2005

# **Body-Worn SAR - 860.0000 MHz - NiMH NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.1 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 33%

Communication System: FM

RF Output Power: 34.93 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M860 ( $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

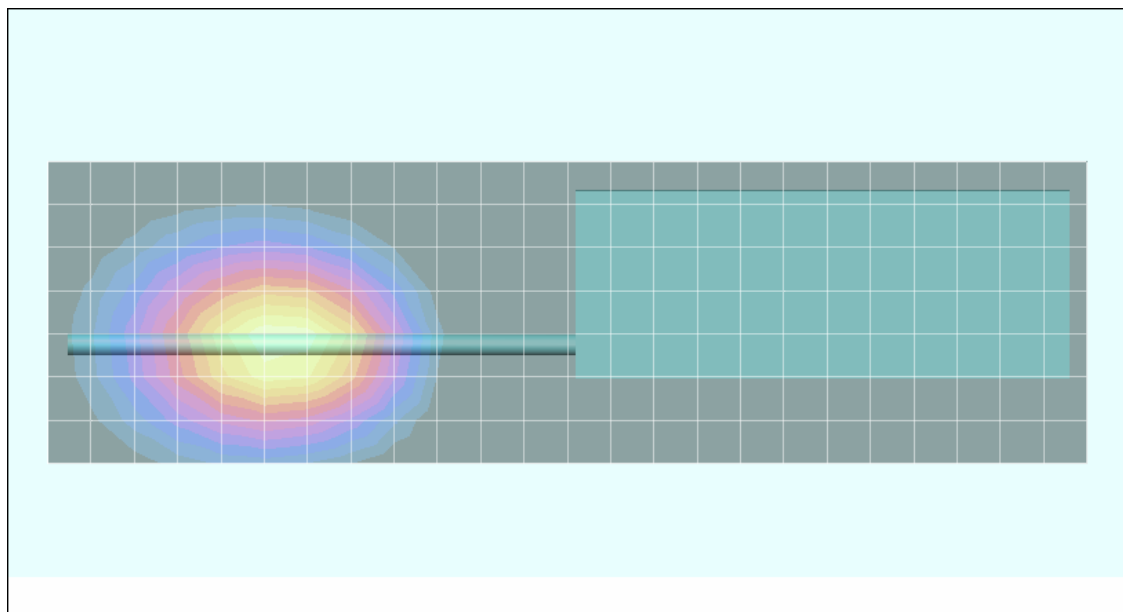
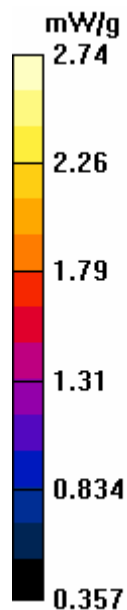
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 9.24 V/m; Power Drift = 0.110 dB

Peak SAR (extrapolated) = 3.37 W/kg

**SAR(1 g) = 2.61 mW/g; SAR(10 g) = 1.91 mW/g**



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/22/2005

## Body-Worn SAR - 860.0000 MHz - NiCd IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 25.1 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 33%

Communication System: FM

RF Output Power: 34.77 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M860 ( $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):

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

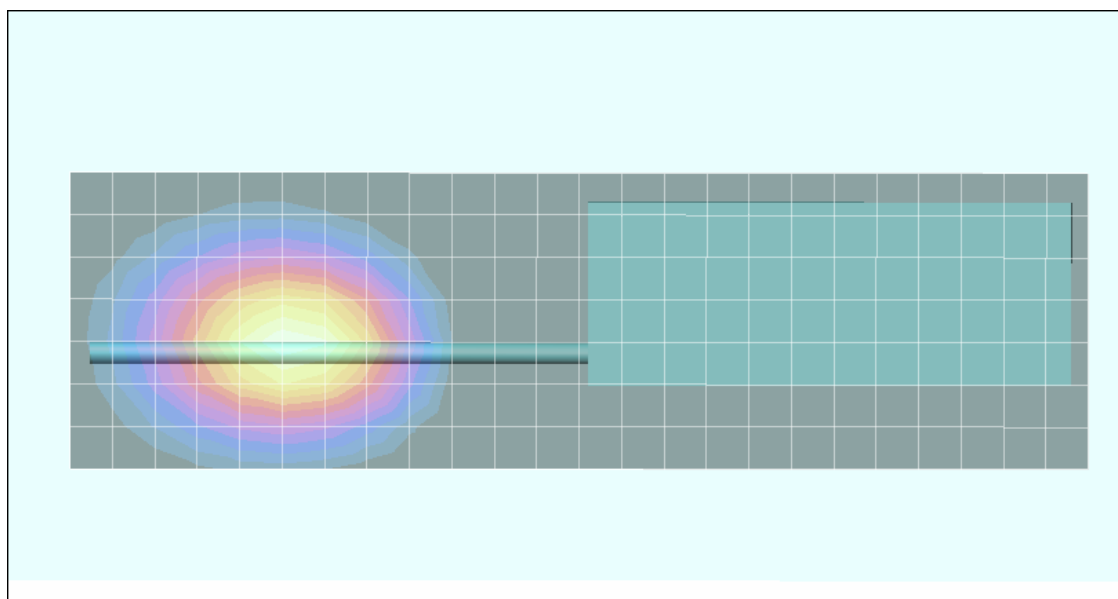
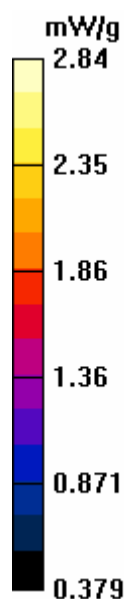
### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 12.0 V/m; Power Drift = 0.560 dB

Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 2.68 mW/g; SAR(10 g) = 1.95 mW/g



|                         |                                   |                                                                                                                      |       |                                                   |          |        |             |                                                                                       |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|----------|--------|-------------|---------------------------------------------------------------------------------------|
| Applicant:              | M/A-COM, Inc.                     | Model:                                                                                                               | P7200 | FCC ID:                                           | BV8P7200 | IC ID: | 3670A-P7200 |  |
| DUT Type:               | Portable FM PTT Radio Transceiver |                                                                                                                      |       | 764-776MHz / 794-806MHz / 806-824MHz / 851-869MHz |          |        |             |                                                                                       |
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Date Tested: 07/22/2005

# **Body-Worn SAR - 860.0000 MHz - NiCd NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.1 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 33%

Communication System: FM

RF Output Power: 35.00 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M860 ( $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

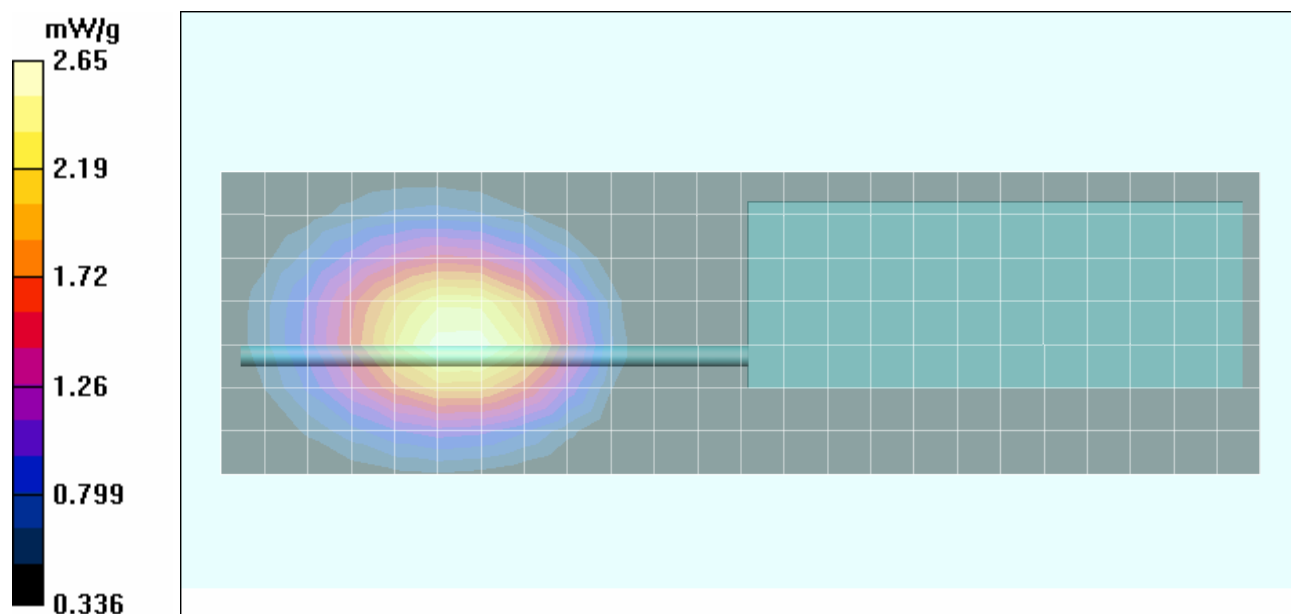
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 11.0 V/m; Power Drift = 0.585 dB

Peak SAR (extrapolated) = 3.25 W/kg

**SAR(1 g) = 2.52 mW/g; SAR(10 g) = 1.84 mW/g**



Date Tested: 07/22/2005

# **Body-Worn SAR - 860.0000 MHz - NiMH IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.1 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 33%

Communication System: FM

RF Output Power: 34.88 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M860 ( $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

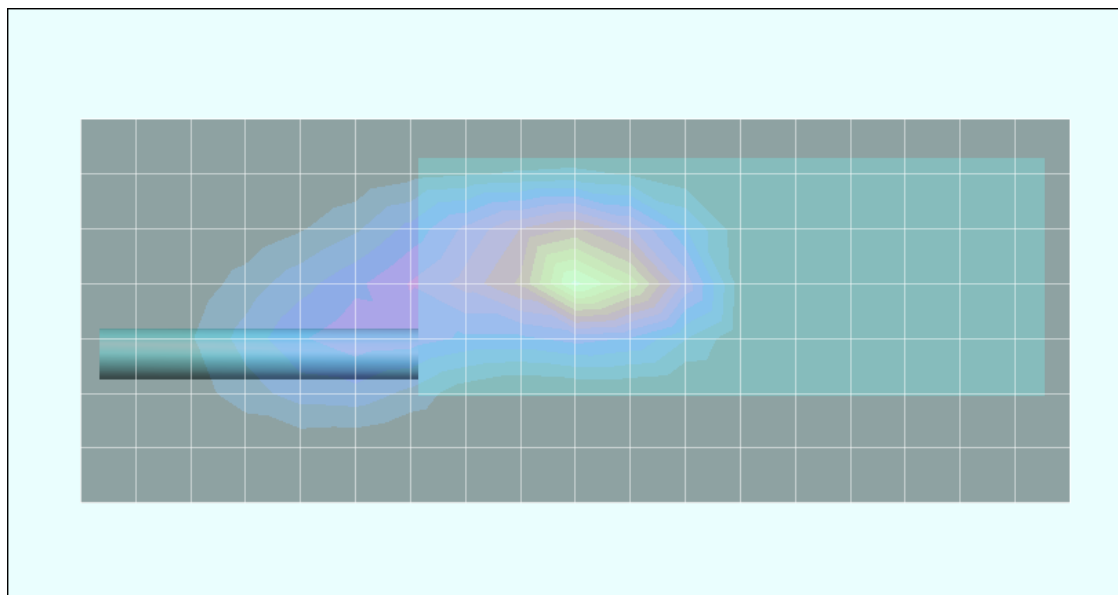
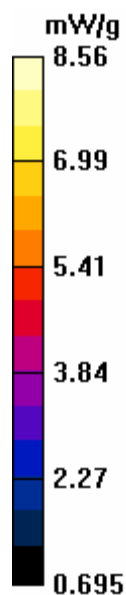
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 65.2 V/m; Power Drift = -0.0536 dB

Peak SAR (extrapolated) = 11.7 W/kg

**SAR(1 g) = 8.14 mW/g; SAR(10 g) = 5.43 mW/g**



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/22/2005

## Body-Worn SAR - 860.0000 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 25.1 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 33%

Communication System: FM

RF Output Power: 34.92 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M860 ( $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):

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

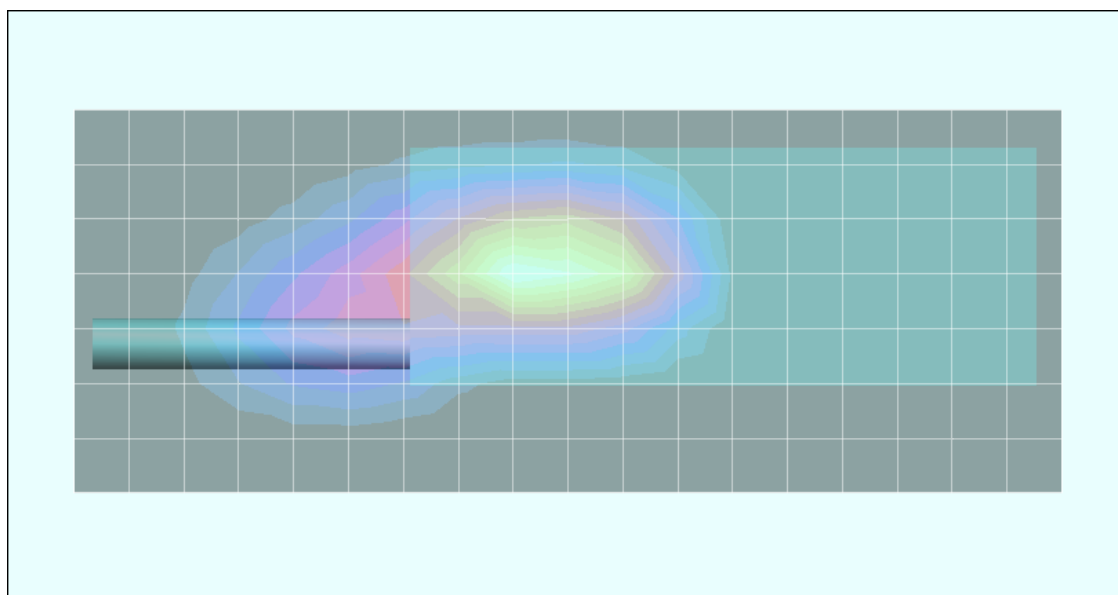
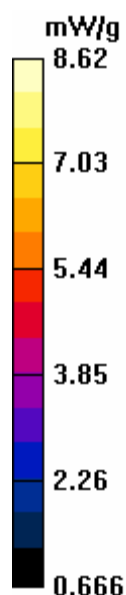
### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 69.3 V/m; Power Drift = 0.0342 dB

Peak SAR (extrapolated) = 11.8 W/kg

SAR(1 g) = 7.88 mW/g; SAR(10 g) = 5.26 mW/g



|                         |                                       |                |                 |
|-------------------------|---------------------------------------|----------------|-----------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005 |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3  |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093      |
|                         |                                       |                | IC RSS-102      |

Date Tested: 07/22/2005

## Body-Worn SAR - 860.0000 MHz - NiCd IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 25.1 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 33%

Communication System: FM

RF Output Power: 34.90 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M860 ( $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):

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

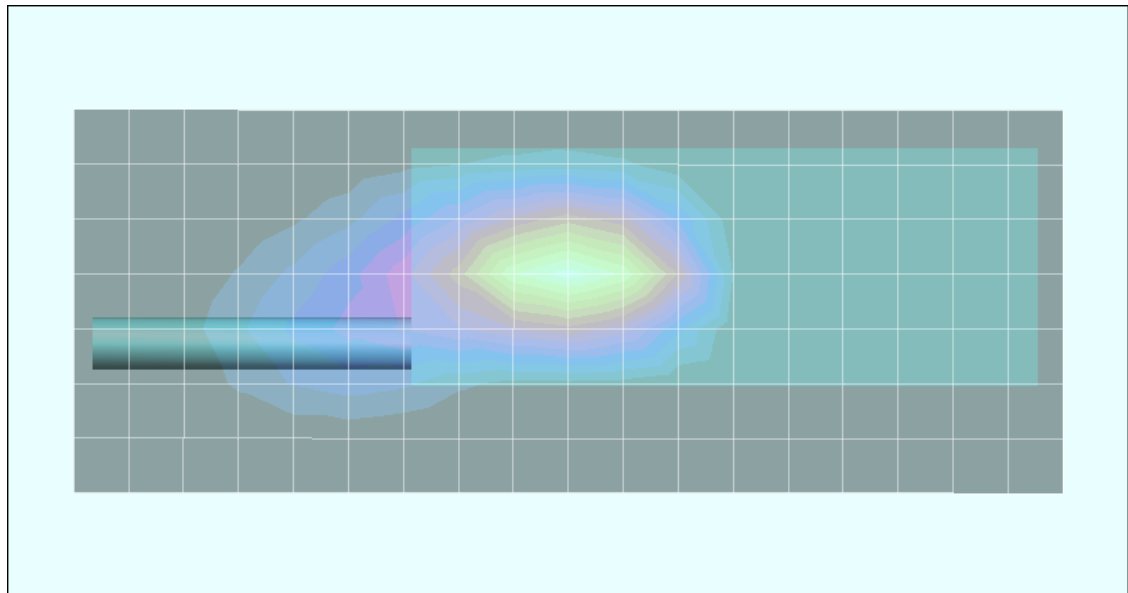
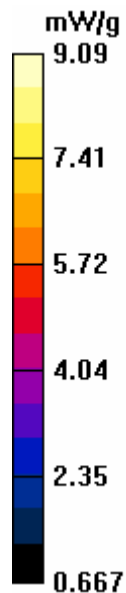
### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan 2 (5x5x7)/Cube 0:

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

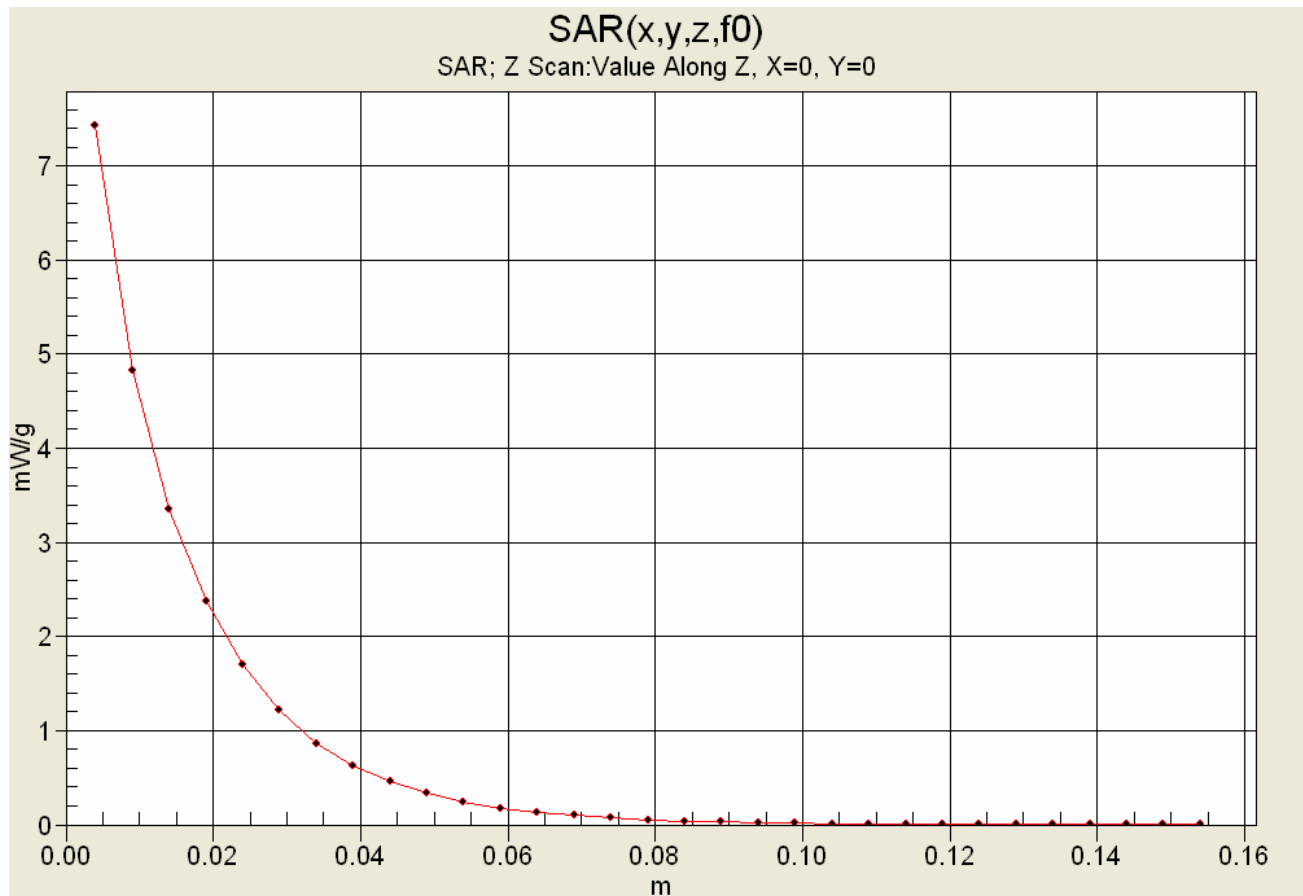
Reference Value = 69.8 V/m; Power Drift = -0.0391 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 8.70 mW/g; SAR(10 g) = 5.71 mW/g



## Z-Axis Scan



|                         |                                       |                |                 |
|-------------------------|---------------------------------------|----------------|-----------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005 |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3  |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093      |
|                         |                                       |                | IC RSS-102      |

Date Tested: 07/22/2005

# **Body-Worn SAR - 860.0000 MHz - NiCd NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.1 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 33%

Communication System: FM

RF Output Power: 34.95 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M860 ( $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

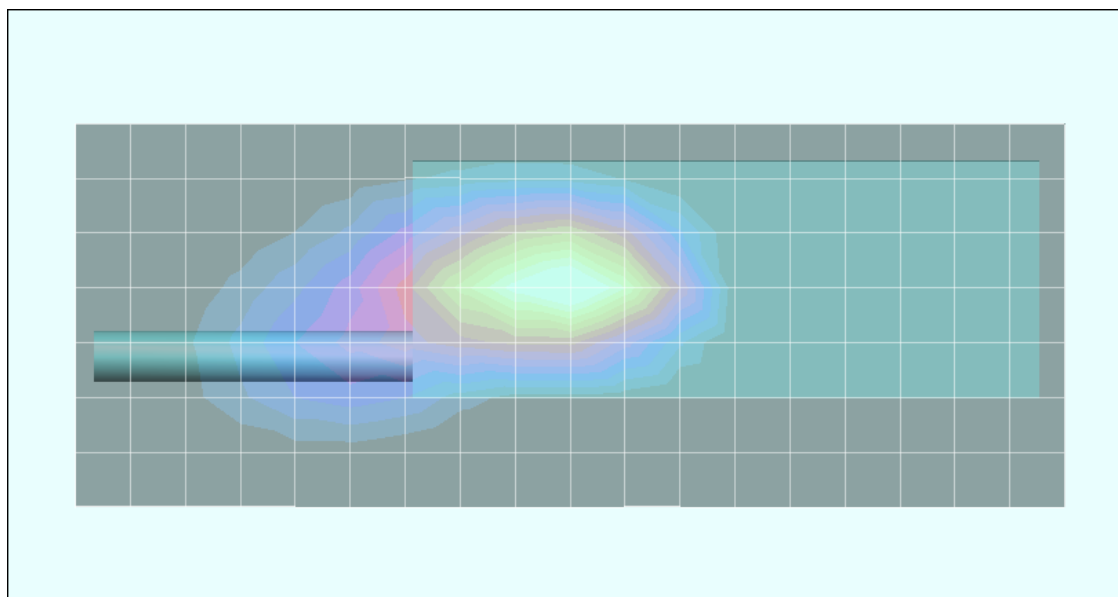
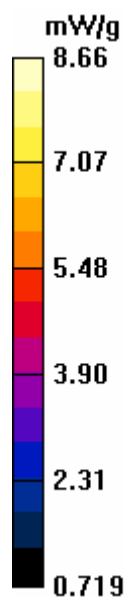
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 71.2 V/m; Power Drift = -0.0686 dB

Peak SAR (extrapolated) = 12.2 W/kg

**SAR(1 g) = 8.05 mW/g; SAR(10 g) = 5.36 mW/g**



Date Tested: 07/22/2005

## Body-Worn SAR - 851.0125 MHz - NiCd IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 25.1 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 33%

Communication System: FM

RF Output Power: 34.92 dBm (Conducted)

Frequency: 851.0125 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M860 ( $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Area Scan (8x19x1):

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

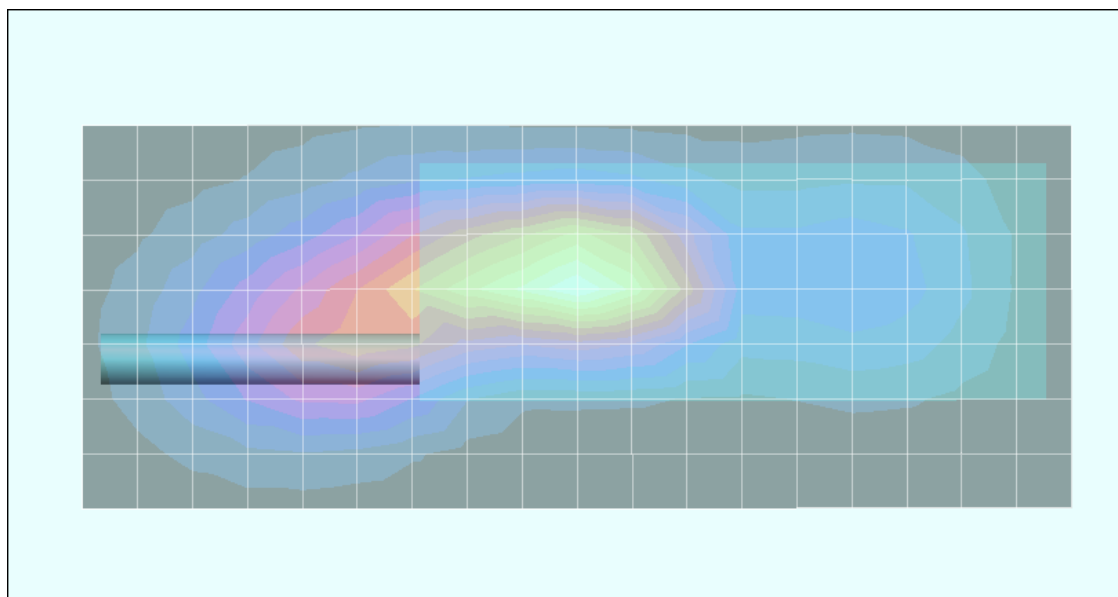
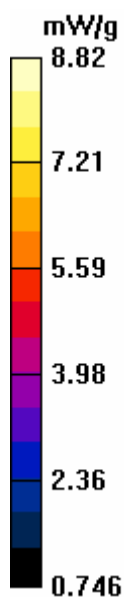
### Body-Worn - 1.1 cm Belt-Clip Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 70.1 V/m; Power Drift = 0.192 dB

Peak SAR (extrapolated) = 12.2 W/kg

SAR(1 g) = 8.35 mW/g; SAR(10 g) = 5.57 mW/g



Date Tested: 07/22/2005

# **Body-Worn SAR - 868.9875 MHz - NiCd IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Metal Belt-Clip (P/N: KRY 101 1647/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.1 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 33%

Communication System: FM

RF Output Power: 34.92 dBm (Conducted)

Frequency: 868.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M860 ( $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Area Scan (8x19x1):**

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

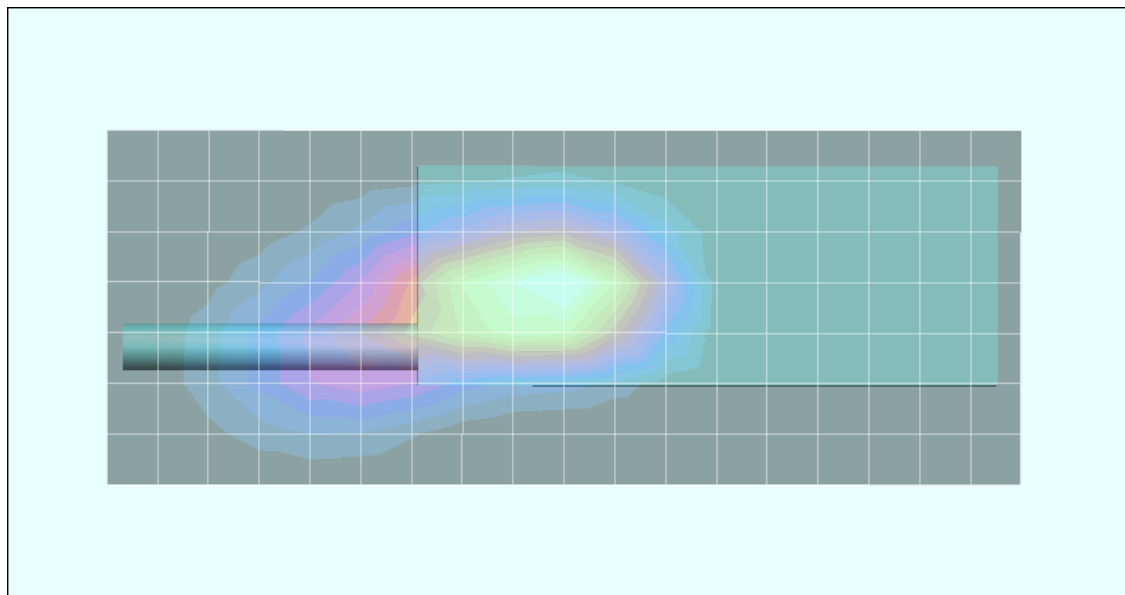
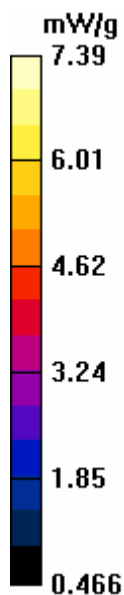
## **Body-Worn - 1.1 cm Belt-Clip Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 64.1 V/m; Power Drift = -0.229 dB

Peak SAR (extrapolated) = 10.2 W/kg

**SAR(1 g) = 6.93 mW/g; SAR(10 g) = 4.56 mW/g**



|                         |                                       |                |                          |
|-------------------------|---------------------------------------|----------------|--------------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005          |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3           |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093<br>IC RSS-102 |

## Body-Worn with System Radio (Model No.: MAHROS0050)

**Body-worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Shoulder Strap (P/N: CC103333V1)**

**Audio Accessory: Speaker-Microphone (P/N: KRY 101 1617/183)**

|                         |                                   |                                                                                                                      |       |                                                   |          |        |             |                                                                                       |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|----------|--------|-------------|---------------------------------------------------------------------------------------|
| Applicant:              | M/A-COM, Inc.                     | Model:                                                                                                               | P7200 | FCC ID:                                           | BV8P7200 | IC ID: | 3670A-P7200 |  |
| DUT Type:               | Portable FM PTT Radio Transceiver |                                                                                                                      |       | 764-776MHz / 794-806MHz / 806-824MHz / 851-869MHz |          |        |             |                                                                                       |
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Date Tested: 07/28/2005

# **Body-Worn SAR - 766.9875 MHz - NiMH IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 33.99 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

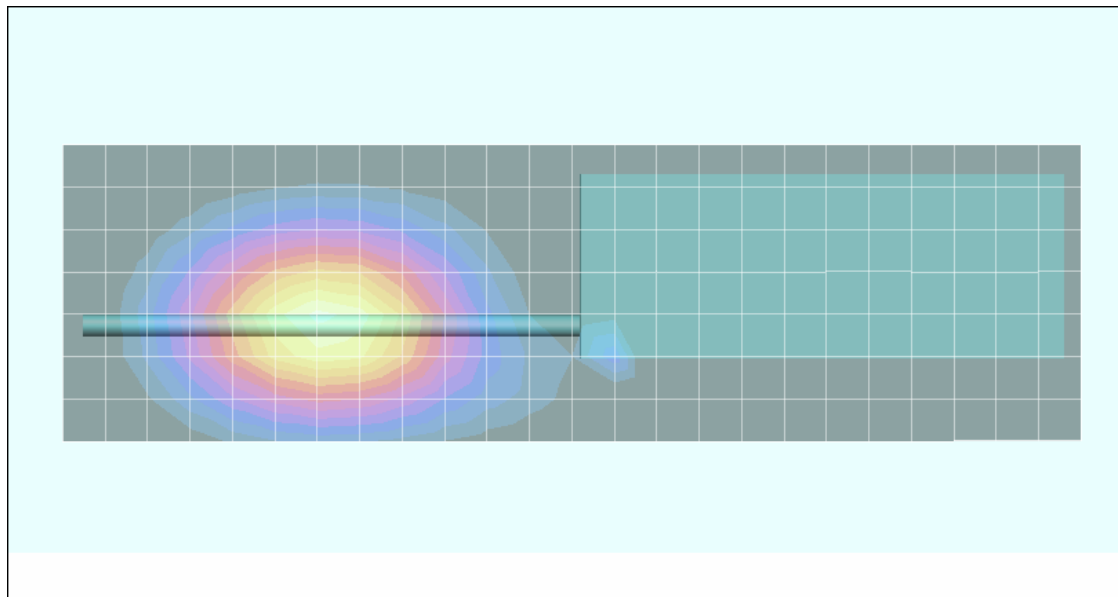
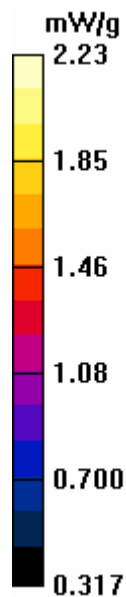
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 14.8 V/m; Power Drift = 0.132 dB

Peak SAR (extrapolated) = 3.19 W/kg

**SAR(1 g) = 2.13 mW/g; SAR(10 g) = 1.53 mW/g**



Date Tested: 07/28/2005

# **Body-Worn SAR - 766.9875 MHz - NiMH NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 33.96 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

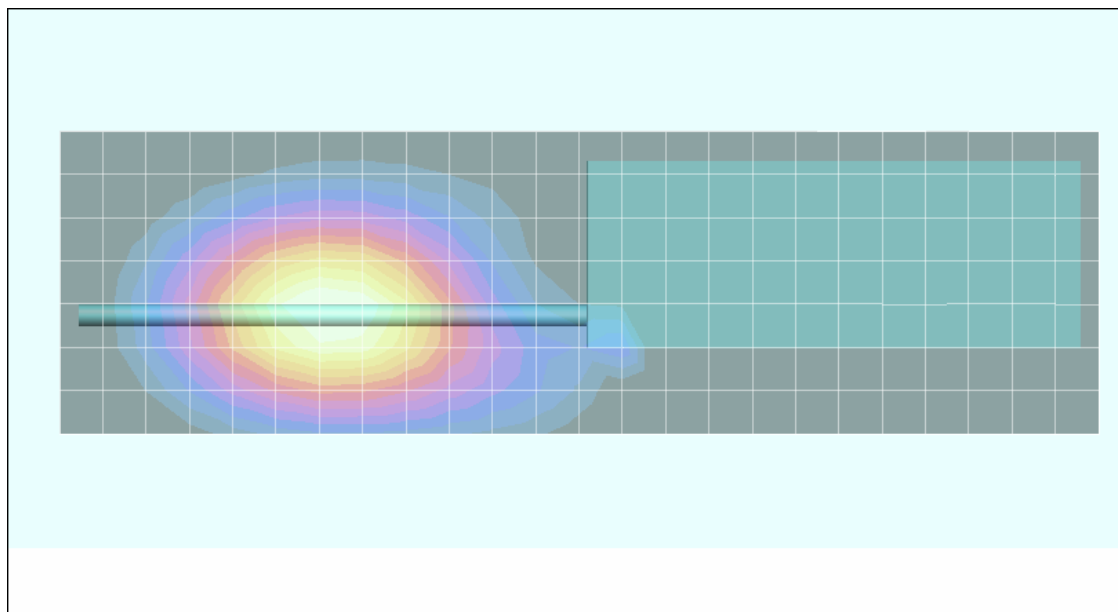
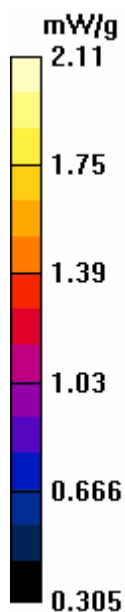
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 19.6 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 3.07 W/kg

**SAR(1 g) = 2.04 mW/g; SAR(10 g) = 1.46 mW/g**



Date Tested: 07/28/2005

# **Body-Worn SAR - 766.9875 MHz - NiCd IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 33.92 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

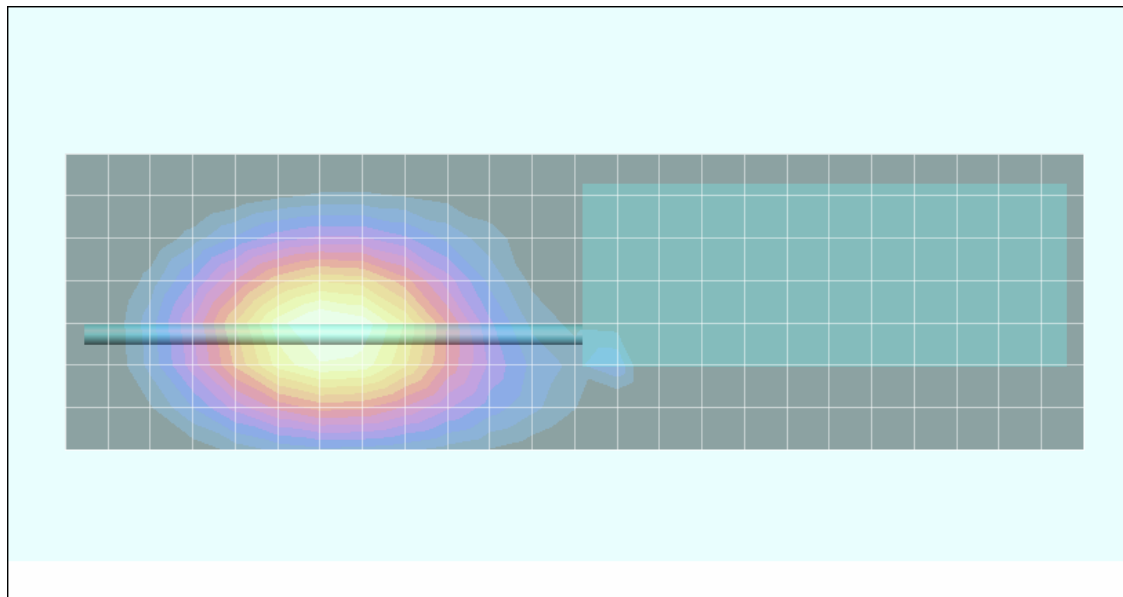
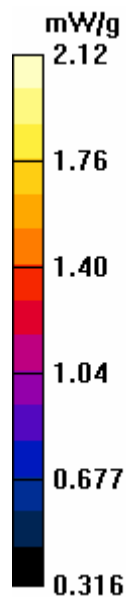
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 20.2 V/m; Power Drift = -0.0203 dB

Peak SAR (extrapolated) = 3.07 W/kg

**SAR(1 g) = 2.03 mW/g; SAR(10 g) = 1.46 mW/g**



Date Tested: 07/28/2005

# **Body-Worn SAR - 766.9875 MHz - NiCd NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 33.90 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 17.0 V/m; Power Drift = 0.306 dB

Peak SAR (extrapolated) = 3.22 W/kg

**SAR(1 g) = 2.15 mW/g; SAR(10 g) = 1.55 mW/g**

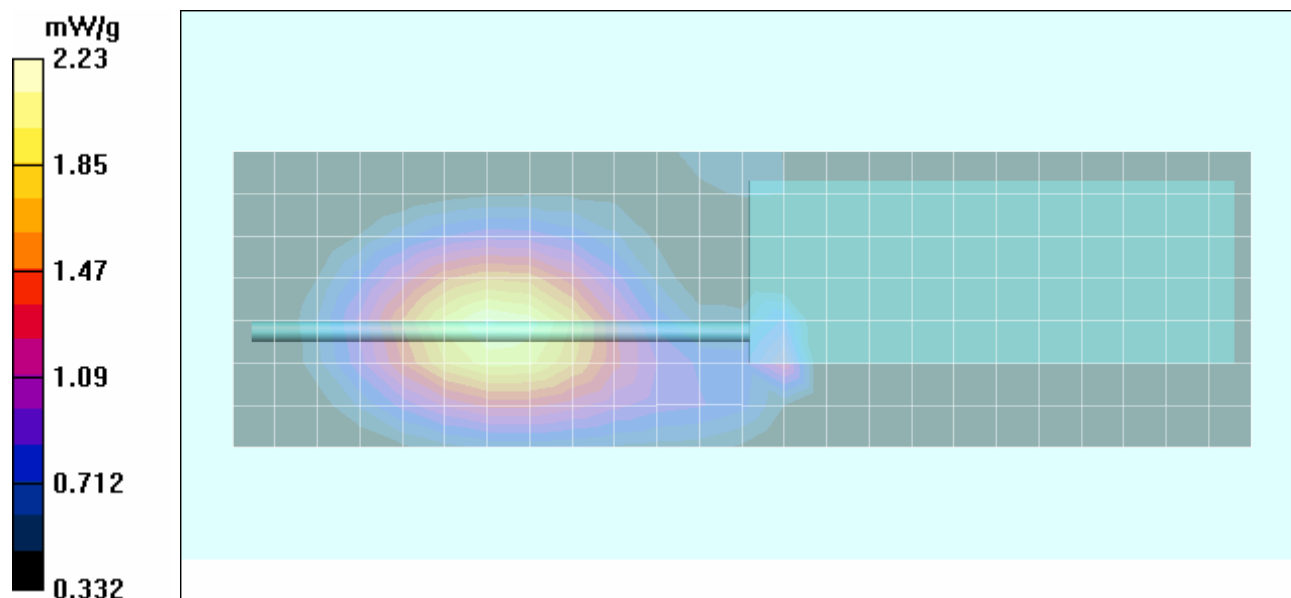
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 1: Measurement grid:**

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 17.0 V/m; Power Drift = 0.306 dB

Peak SAR (extrapolated) = 3.46 W/kg

**SAR(1 g) = 0.975 mW/g; SAR(10 g) = 0.436 mW/g**



Date Tested: 07/28/2005

# **Body-Worn SAR - 766.9875 MHz - NiMH IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 33.99 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 48.9 V/m; Power Drift = 0.178 dB

Peak SAR (extrapolated) = 7.65 W/kg

**SAR(1 g) = 3.72 mW/g; SAR(10 g) = 2.41 mW/g**

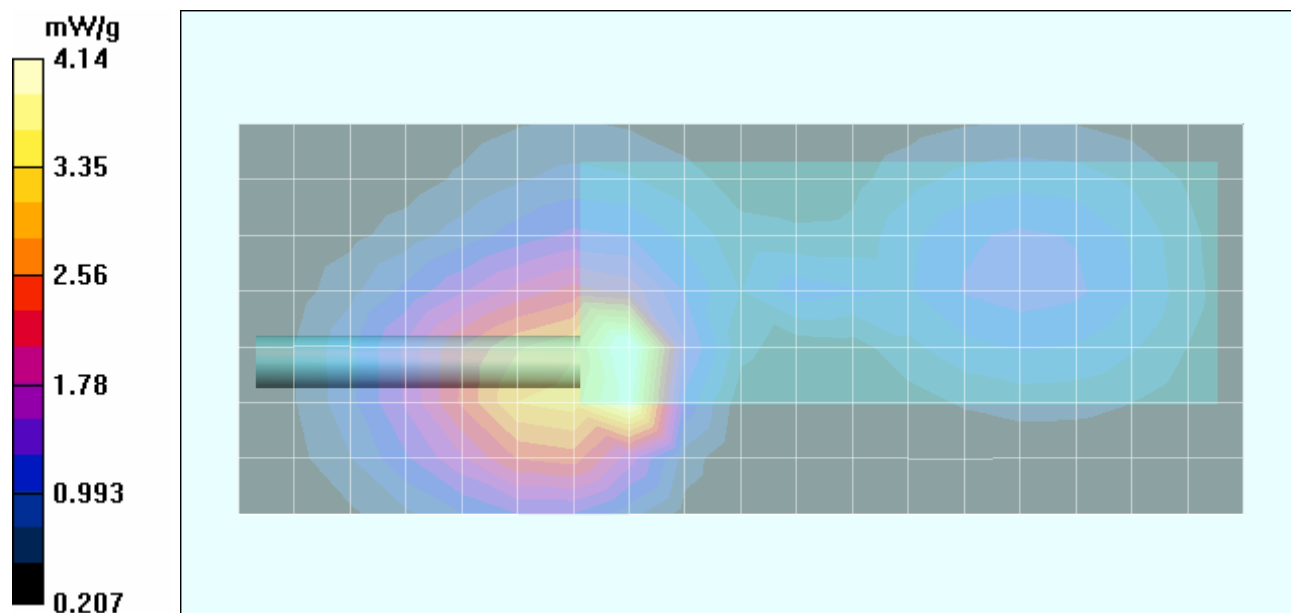
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 1: Measurement grid:**

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 48.9 V/m; Power Drift = 0.178 dB

Peak SAR (extrapolated) = 5.50 W/kg

**SAR(1 g) = 3.67 mW/g; SAR(10 g) = 2.62 mW/g**



Date Tested: 07/28/2005

# **Body-Worn SAR - 766.9875 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 33.97 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

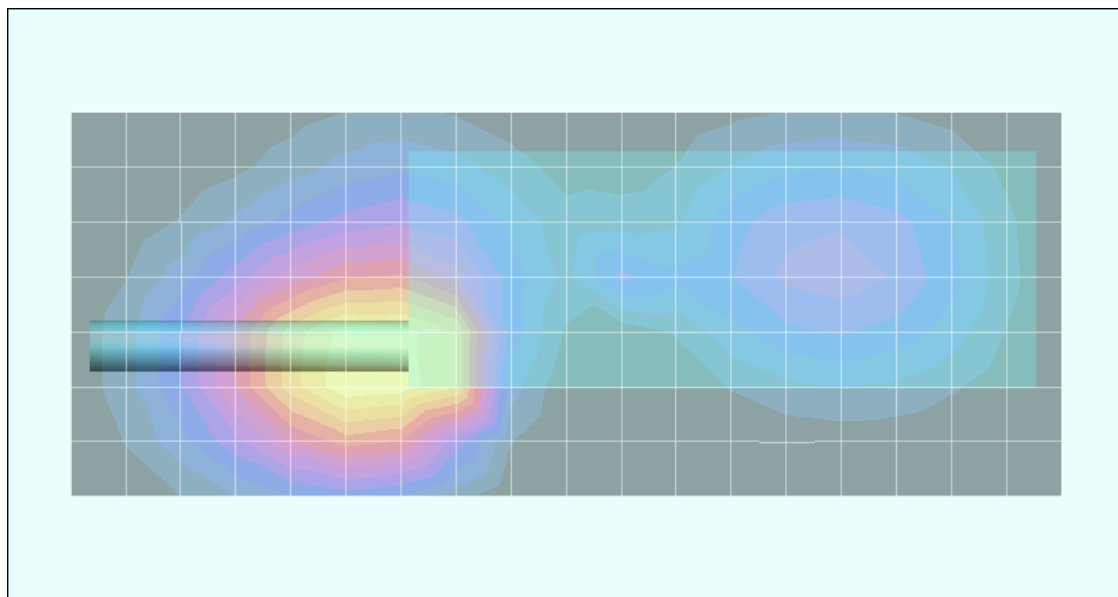
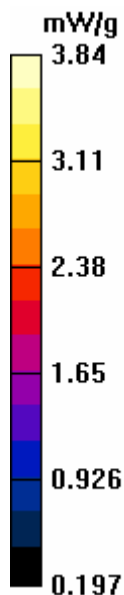
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 46.0 V/m; Power Drift = 0.194 dB

Peak SAR (extrapolated) = 8.81 W/kg

**SAR(1 g) = 3.69 mW/g; SAR(10 g) = 2.33 mW/g**



|                         |                                       |                |                 |
|-------------------------|---------------------------------------|----------------|-----------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005 |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3  |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093      |
|                         |                                       |                | IC RSS-102      |

Date Tested: 07/28/2005

# **Body-Worn SAR - 766.9875 MHz - NiCd IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.01 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

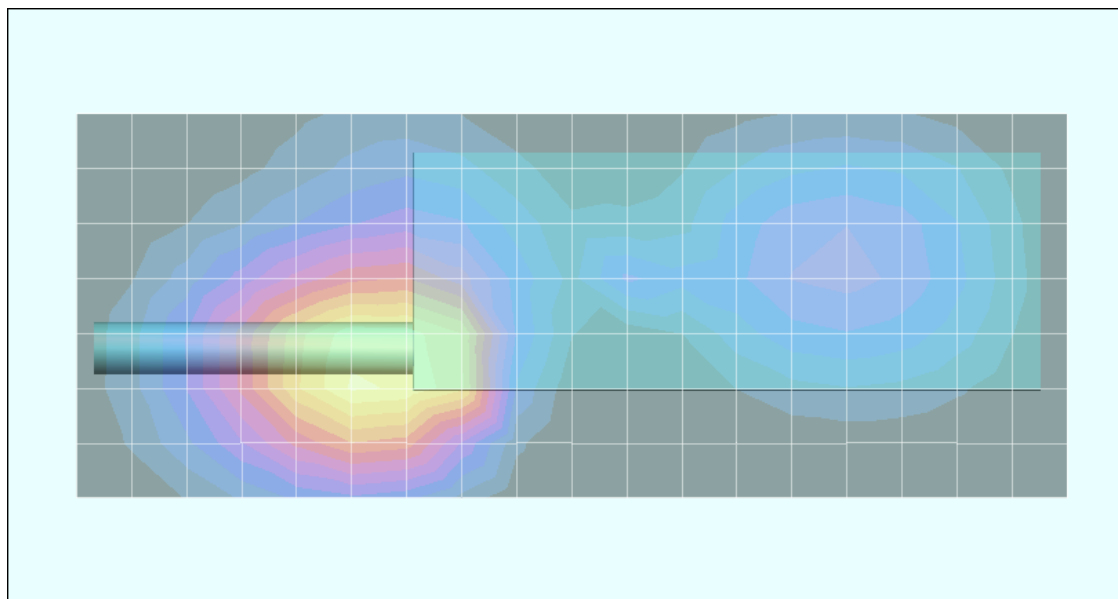
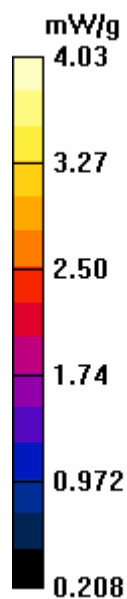
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 48.5 V/m; Power Drift = 0.183 dB

Peak SAR (extrapolated) = 9.49 W/kg

**SAR(1 g) = 4.02 mW/g; SAR(10 g) = 2.57 mW/g**



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/28/2005

# **Body-Worn SAR - 766.9875 MHz - NiCd NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.0 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.6 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 33.96 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

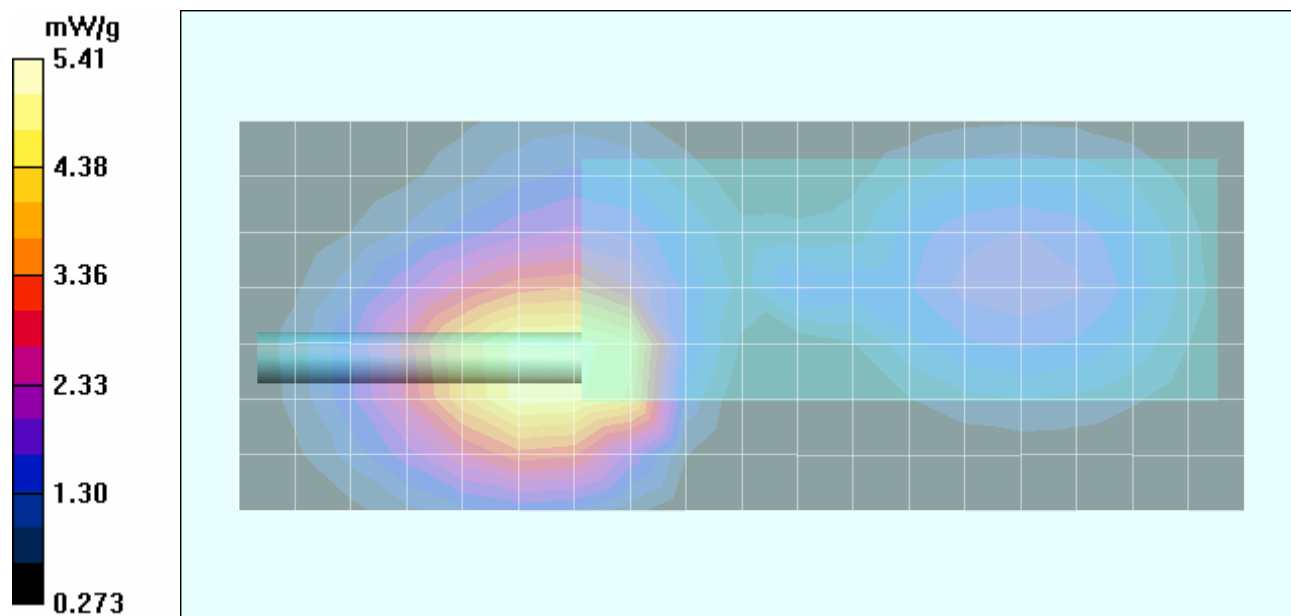
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 50.9 V/m; Power Drift = 0.0942 dB

Peak SAR (extrapolated) = 13.2 W/kg

**SAR(1 g) = 5.07 mW/g; SAR(10 g) = 2.7 mW/g**



Date Tested: 07/26/2005

# **Body-Worn SAR - 796.9875 MHz - NiMH IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.5 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.0 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.08 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M797 ( $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 17.7 V/m; Power Drift = -0.400 dB

Peak SAR (extrapolated) = 3.72 W/kg

**SAR(1 g) = 2.47 mW/g; SAR(10 g) = 1.75 mW/g**

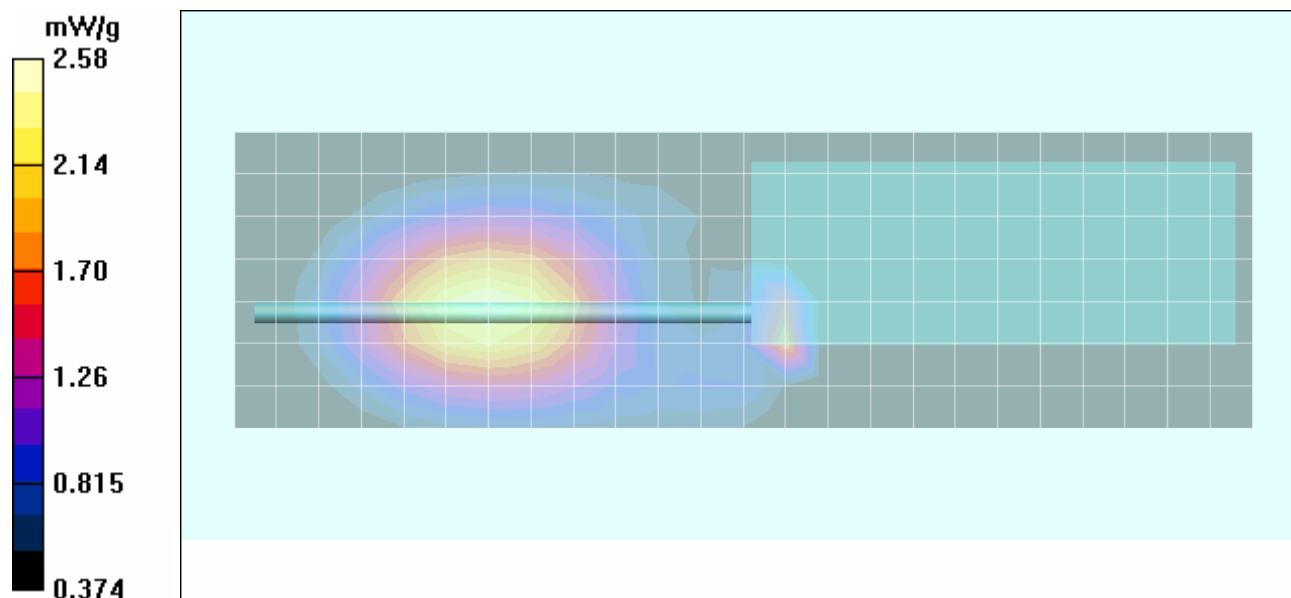
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 1:**

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

Reference Value = 17.7 V/m; Power Drift = -0.400 dB

Peak SAR (extrapolated) = 3.48 W/kg

**SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.600 mW/g**



Date Tested: 07/26/2005

# **Body-Worn SAR - 796.9875 MHz - NiMH NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.5 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.0 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.10 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M797 ( $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

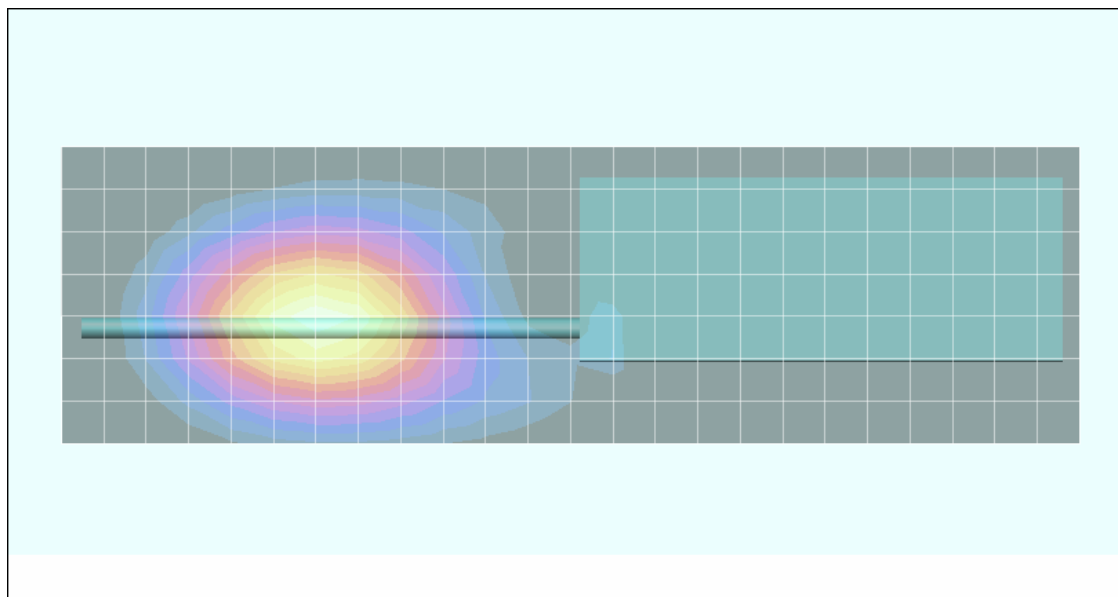
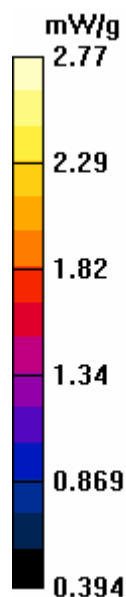
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 17.2 V/m; Power Drift = 0.0512 dB

Peak SAR (extrapolated) = 4.00 W/kg

**SAR(1 g) = 2.64 mW/g; SAR(10 g) = 1.87 mW/g**



Date Tested: 07/26/2005

# **Body-Worn SAR - 796.9875 MHz - NiCd IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.5 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.0 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.04 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M797 ( $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 18.1 V/m; Power Drift = -0.334 dB

Peak SAR (extrapolated) = 3.77 W/kg

**SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.75 mW/g**

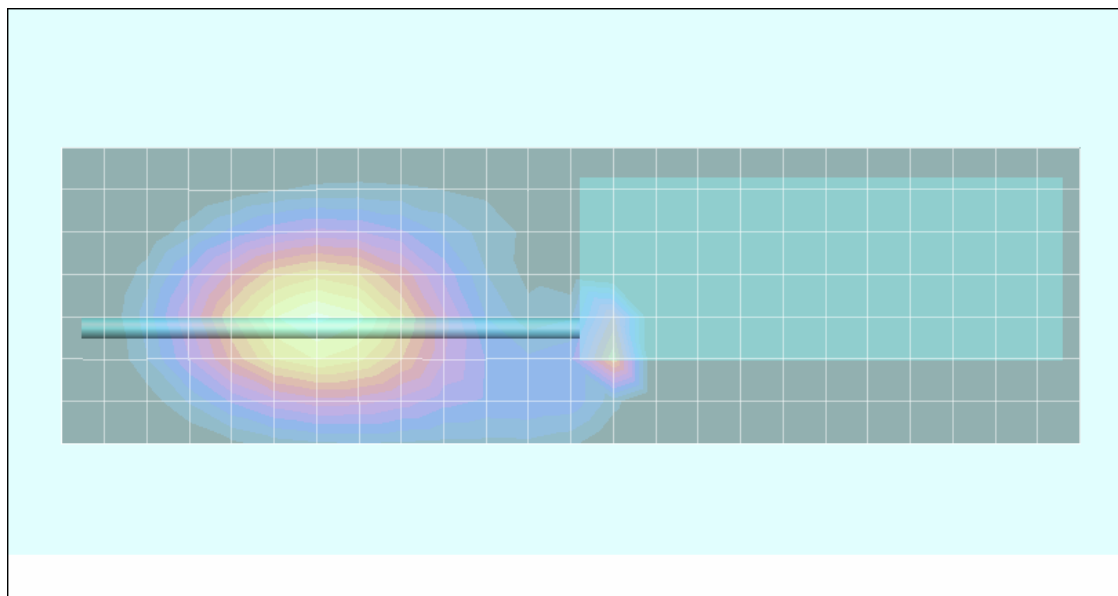
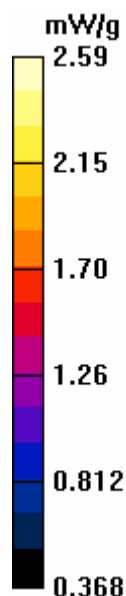
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 1: Measurement grid:**

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = -0.334 dB

Peak SAR (extrapolated) = 10.3 W/kg

**SAR(1 g) = 1.97 mW/g; SAR(10 g) = 0.720 mW/g**



|                         |                                       |                |                 |
|-------------------------|---------------------------------------|----------------|-----------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005 |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3  |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093      |
|                         |                                       |                | IC RSS-102      |

Date Tested: 07/26/2005

# **Body-Worn SAR - 796.9875 MHz - NiCd NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.5 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.0 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.12 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M797 ( $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

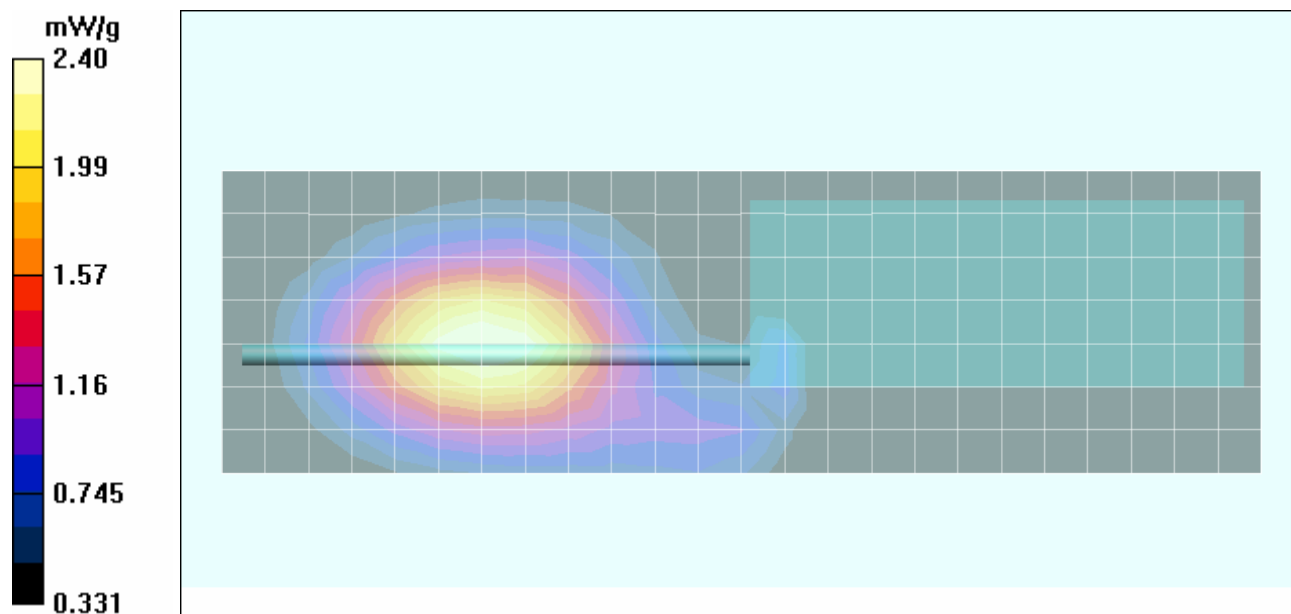
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 20.2 V/m; Power Drift = 0.113 dB

Peak SAR (extrapolated) = 3.50 W/kg

**SAR(1 g) = 2.31 mW/g; SAR(10 g) = 1.64 mW/g**



|                         |                                   |                                                                                                                      |       |                                                   |          |        |             |                                                                                       |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|----------|--------|-------------|---------------------------------------------------------------------------------------|
| Applicant:              | M/A-COM, Inc.                     | Model:                                                                                                               | P7200 | FCC ID:                                           | BV8P7200 | IC ID: | 3670A-P7200 |  |
| DUT Type:               | Portable FM PTT Radio Transceiver |                                                                                                                      |       | 764-776MHz / 794-806MHz / 806-824MHz / 851-869MHz |          |        |             |                                                                                       |
| 2005 Celltech Labs Inc. |                                   | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |       |                                                   |          |        |             | 182 of 336                                                                            |

Date Tested: 07/26/2005

# **Body-Worn SAR - 796.9875 MHz - NiMH IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.5 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.0 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.09 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M797 ( $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

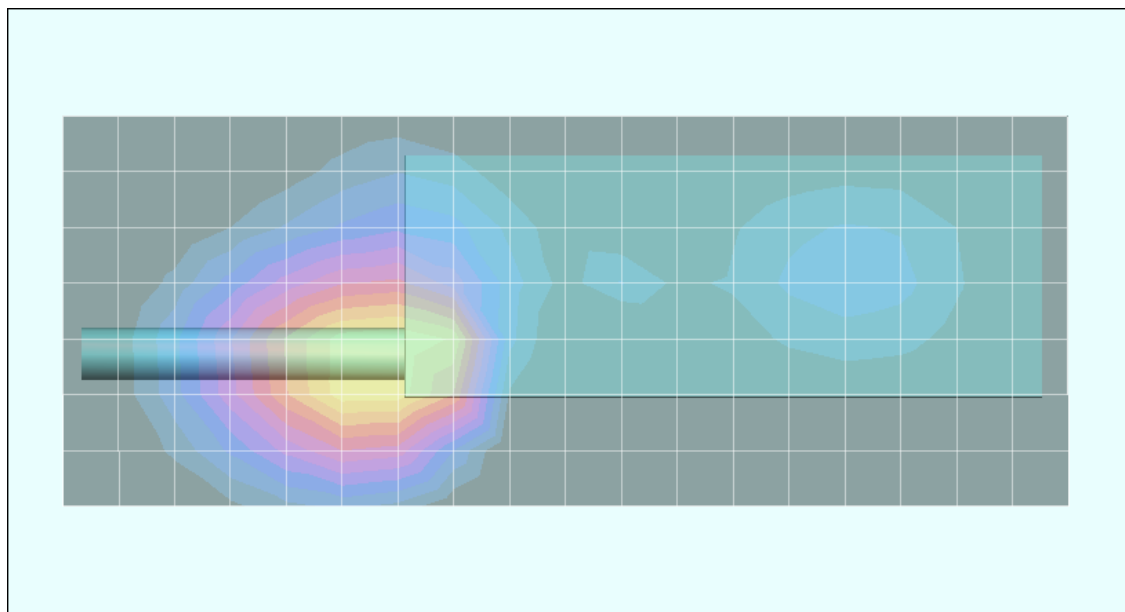
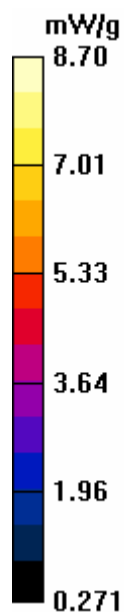
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 50.7 V/m; Power Drift = 0.0938 dB

Peak SAR (extrapolated) = 27.0 W/kg

**SAR(1 g) = 7.42 mW/g; SAR(10 g) = 3.43 mW/g**



Date Tested: 07/26/2005

# **Body-Worn SAR - 796.9875 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.5 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.0 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.11 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M797 ( $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

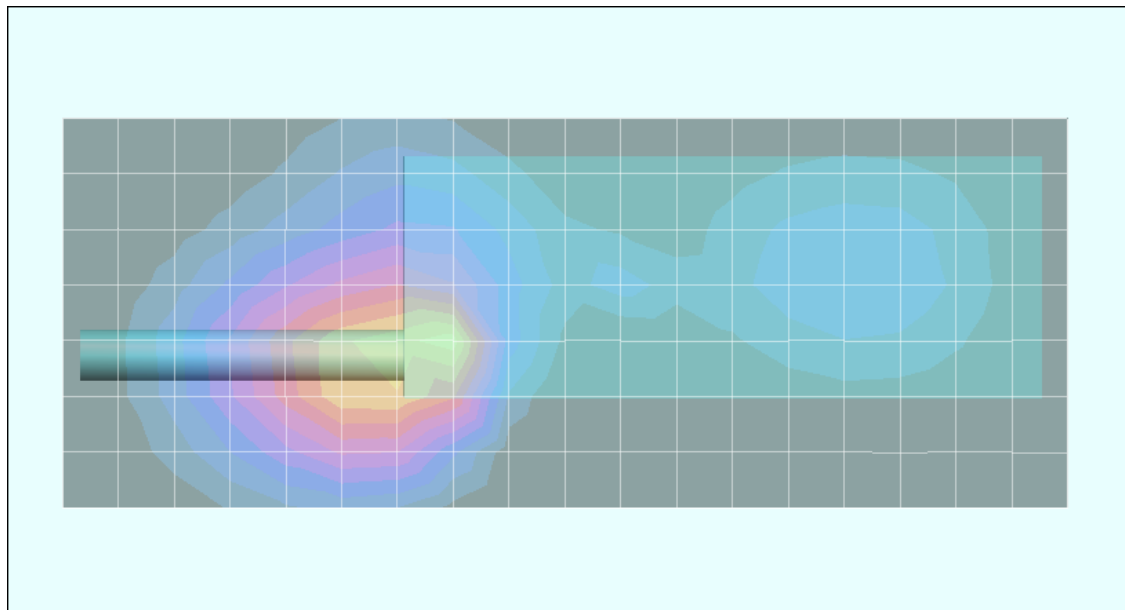
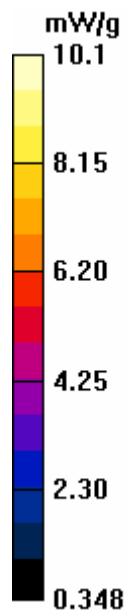
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

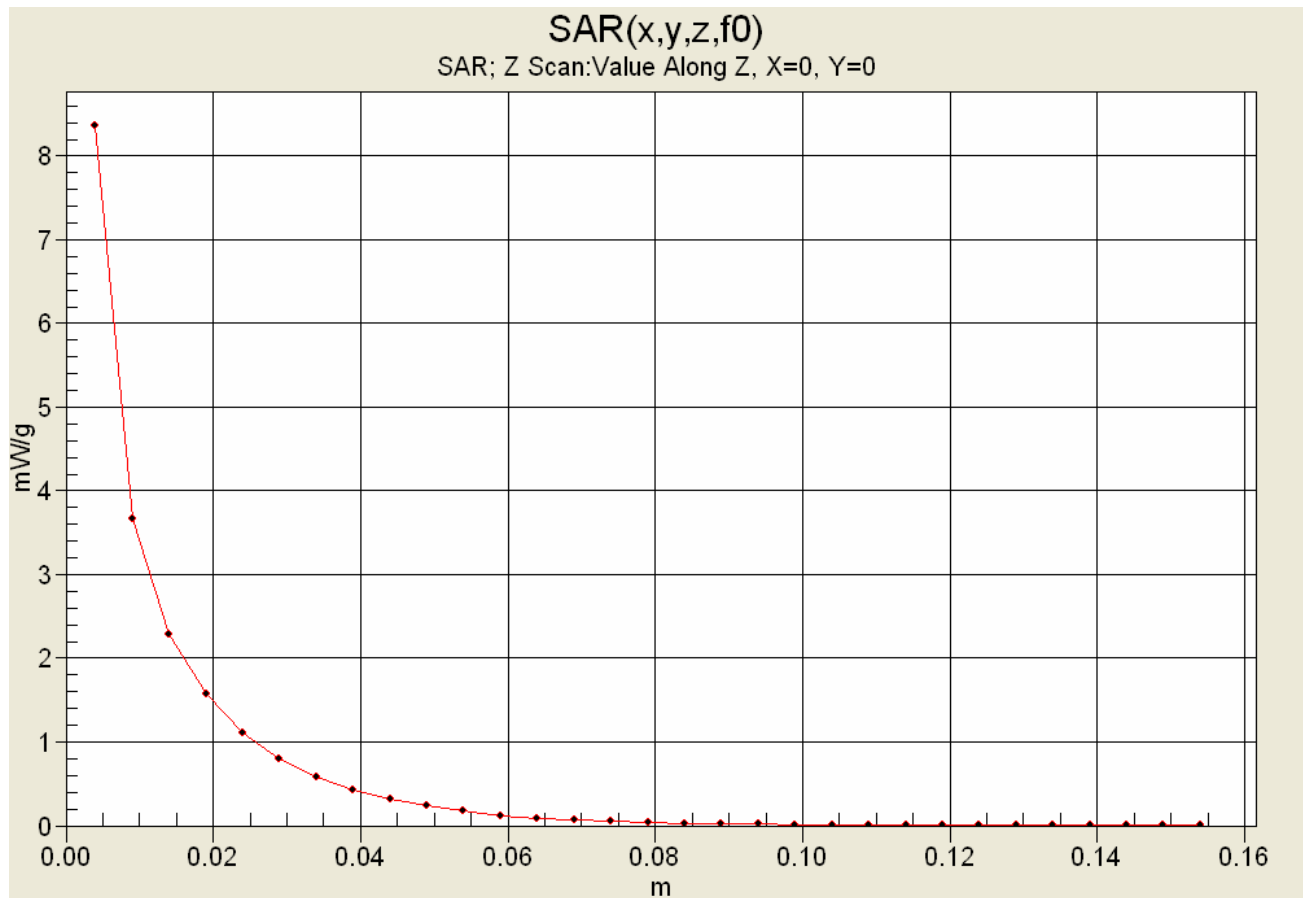
Reference Value = 54.6 V/m; Power Drift = -0.0910 dB

Peak SAR (extrapolated) = 32.7 W/kg

**SAR(1 g) = 9.22 mW/g; SAR(10 g) = 3.93 mW/g**



## Z-Axis Scan



Date Tested: 07/26/2005

# **Body-Worn SAR - 796.9875 MHz - NiCd IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.5 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.0 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.13 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M797 ( $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

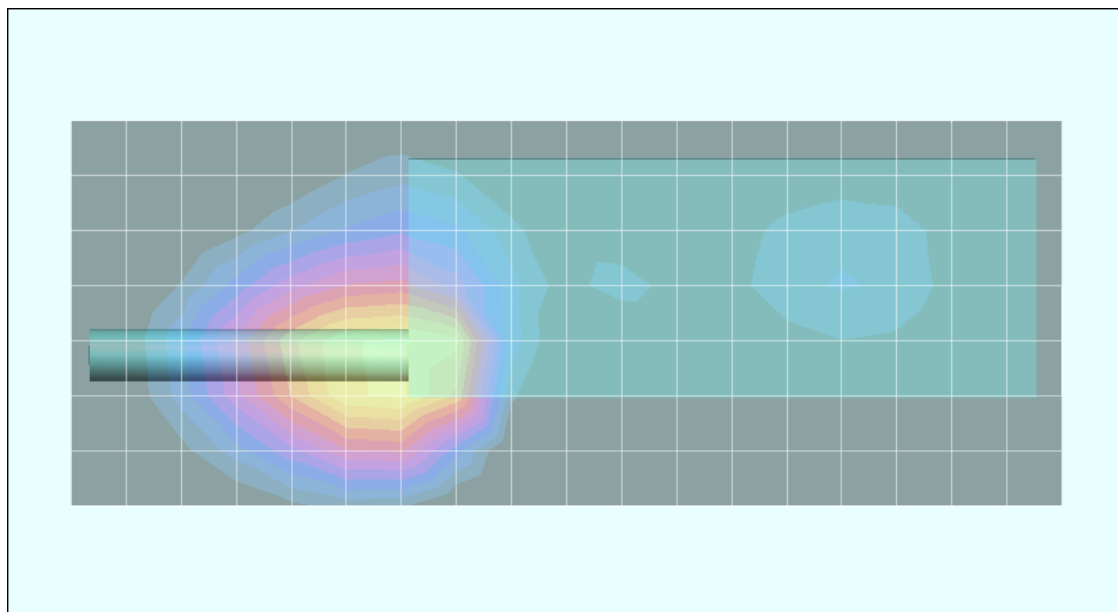
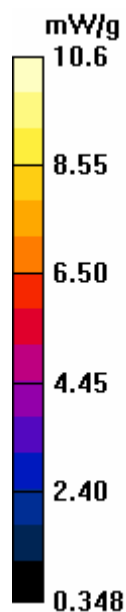
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 54.4 V/m; Power Drift = 0.134 dB

Peak SAR (extrapolated) = 32.7 W/kg

**SAR(1 g) = 9.03 mW/g; SAR(10 g) = 3.9 mW/g**



Date Tested: 07/26/2005

# **Body-Worn SAR - 796.9875 MHz - NiCd NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.5 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.0 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.08 dBm (Conducted)

Frequency: 796.9875 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M797 ( $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

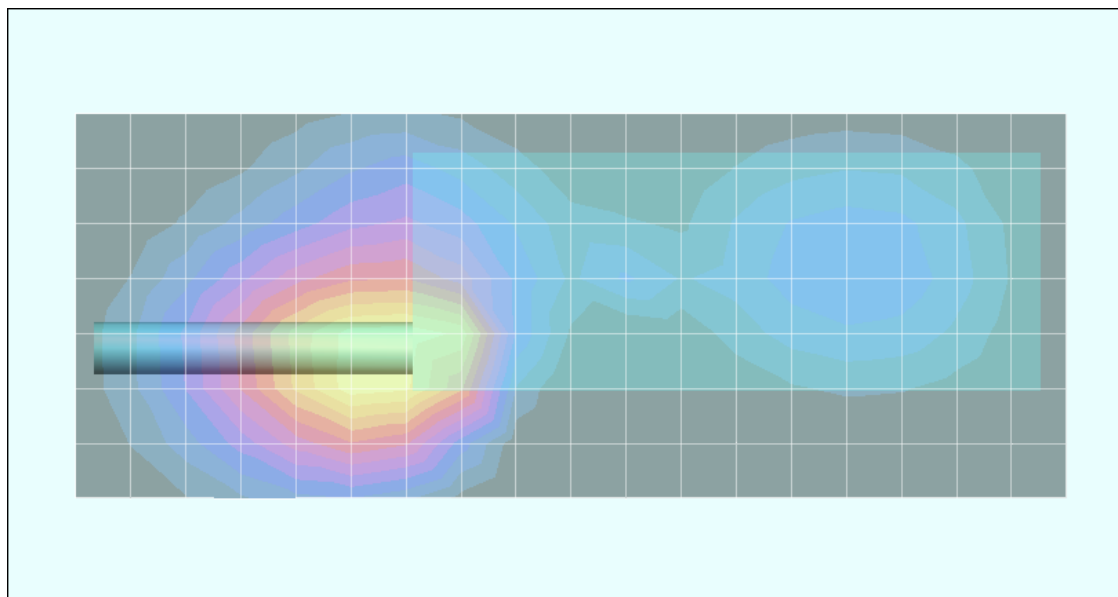
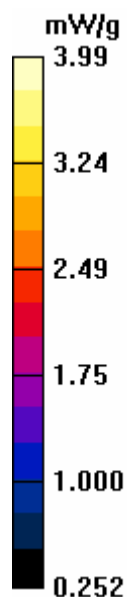
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 50.8 V/m; Power Drift = 0.171 dB

Peak SAR (extrapolated) = 7.86 W/kg

**SAR(1 g) = 3.72 mW/g; SAR(10 g) = 2.42 mW/g**



Date Tested: 07/26/2005

# **Body-Worn SAR - 794.0125 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.5 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.0 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.06 dBm (Conducted)

Frequency: 794.0125 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M797 ( $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Low Channel/Area Scan (8x19x1):**

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

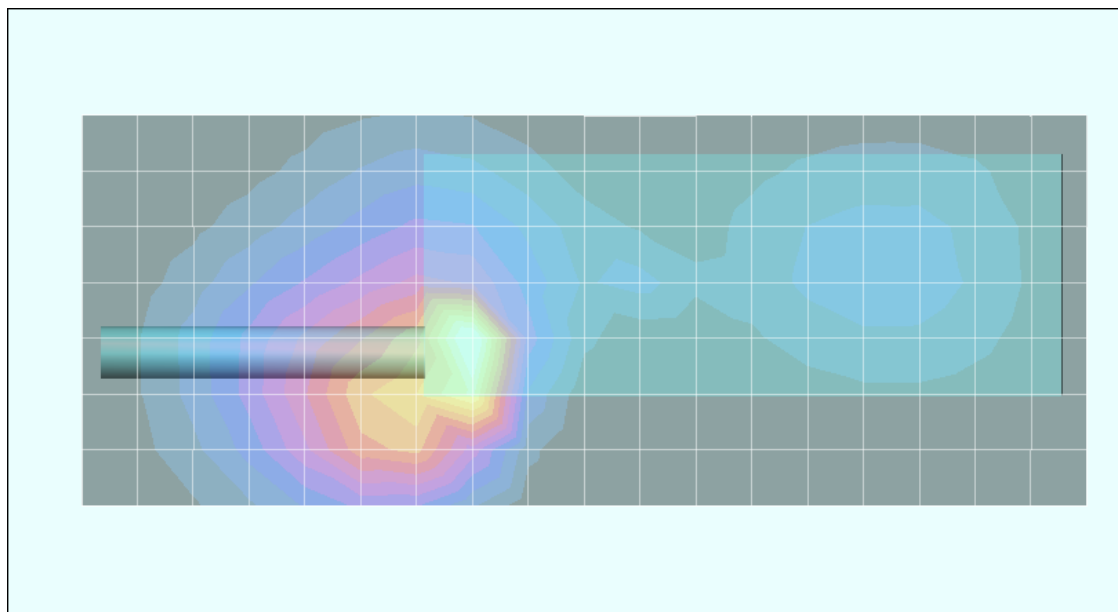
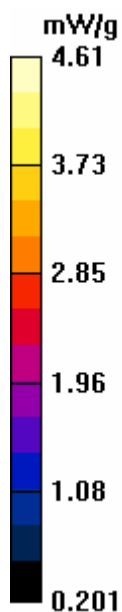
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 49.7 V/m; Power Drift = 0.185 dB

Peak SAR (extrapolated) = 9.95 W/kg

**SAR(1 g) = 4.29 mW/g; SAR(10 g) = 2.56 mW/g**



Date Tested: 07/26/2005

# **Body-Worn SAR - 805.9875 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.5 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.0 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 33.94 dBm (Conducted)

Frequency: 805.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M797 ( $\sigma = 0.91$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - High Channel/Area Scan (8x19x1):**

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

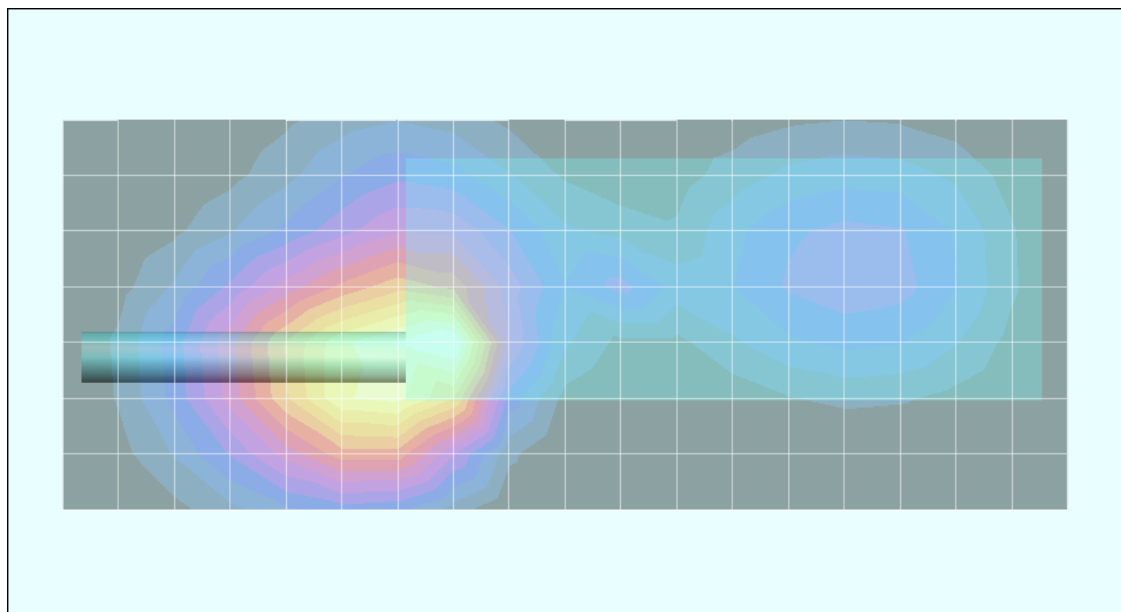
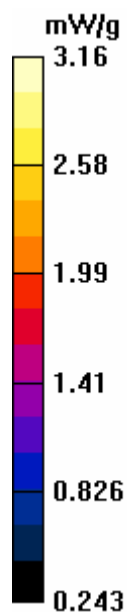
## **Body-Worn - 1.1 cm Leather Case Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 51.2 V/m; Power Drift = 0.143 dB

Peak SAR (extrapolated) = 4.35 W/kg

**SAR(1 g) = 2.99 mW/g; SAR(10 g) = 2.09 mW/g**



Date Tested: 07/22/2005

# **Body-Worn SAR - 815.0000 MHz - NiMH IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.5 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.89 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M815 ( $\sigma = 0.97$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

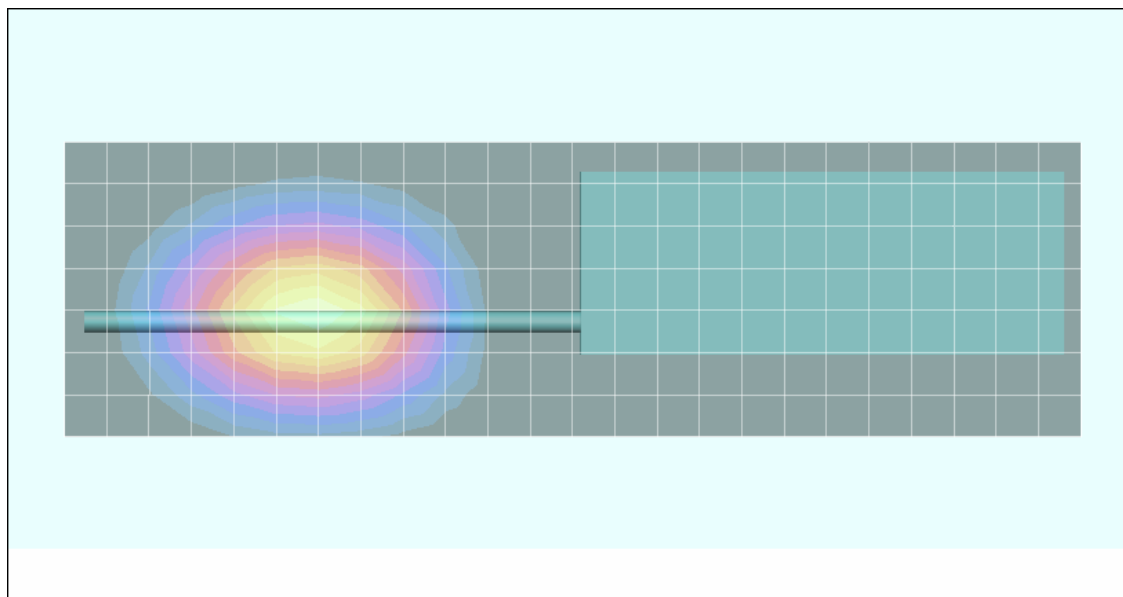
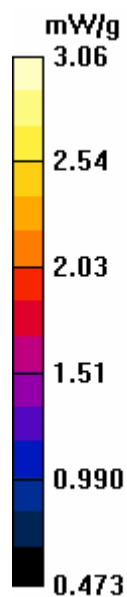
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 16.1 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 3.68 W/kg

**SAR(1 g) = 2.87 mW/g; SAR(10 g) = 2.11 mW/g**



Date Tested: 07/22/2005

# **Body-Worn SAR - 815.0000 MHz - NiMH NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.5 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.86 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M815 ( $\sigma = 0.97$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

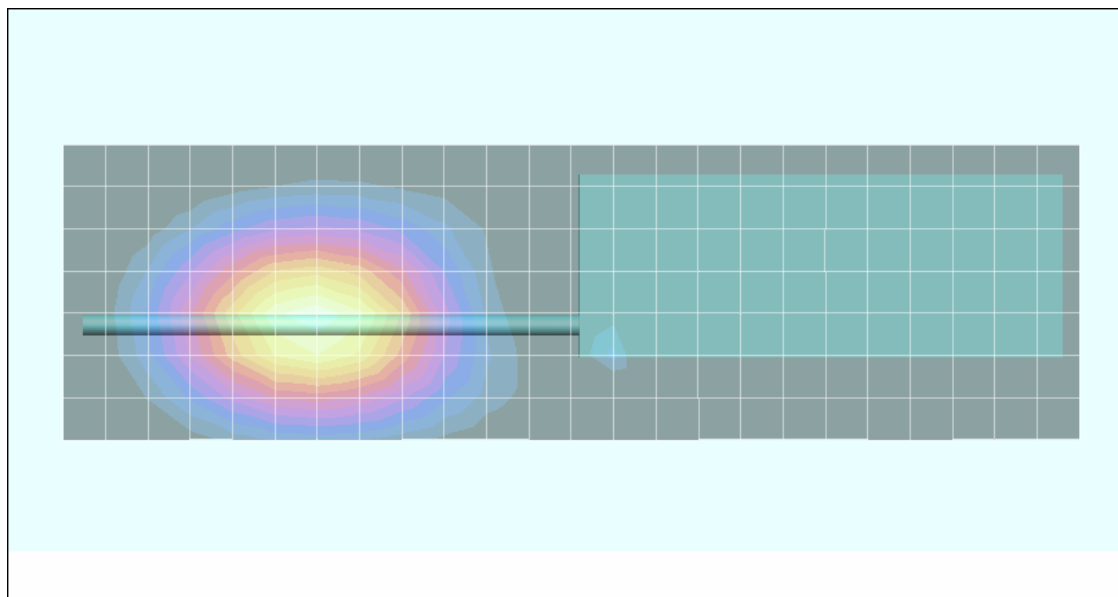
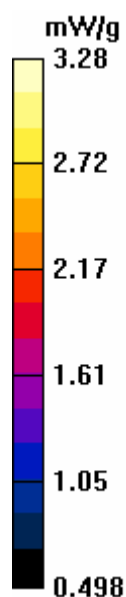
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 14.1 V/m; Power Drift = -0.140 dB

Peak SAR (extrapolated) = 3.96 W/kg

**SAR(1 g) = 3.10 mW/g; SAR(10 g) = 2.27 mW/g**



Date Tested: 07/22/2005

# **Body-Worn SAR - 815.0000 MHz - NiCd IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.5 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.82 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M815 ( $\sigma = 0.97$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

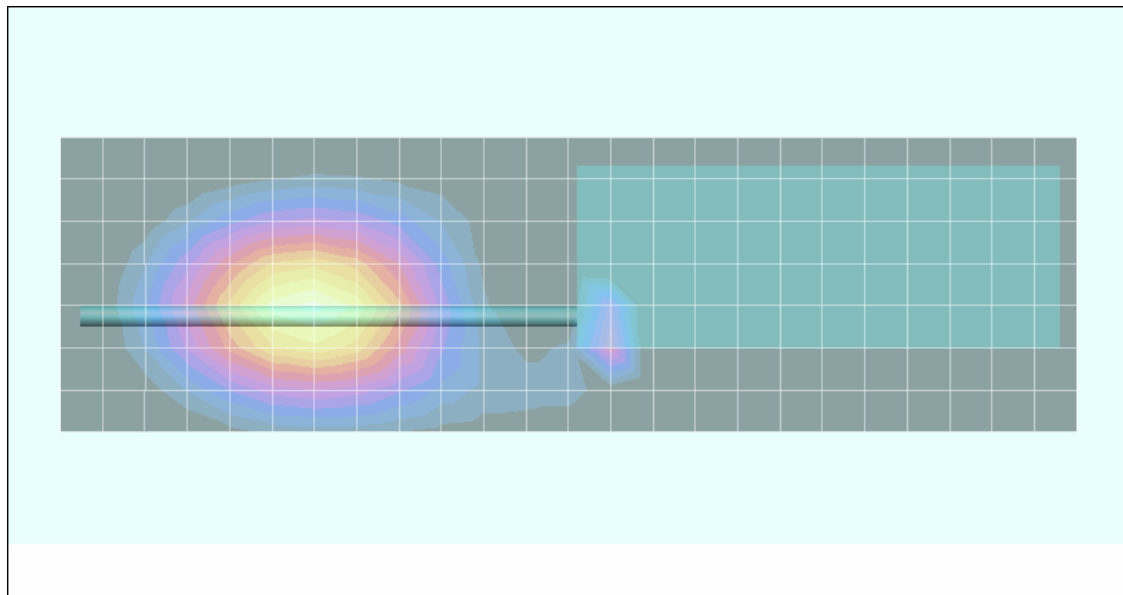
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 15.6 V/m; Power Drift = 0.0246 dB

Peak SAR (extrapolated) = 3.89 W/kg

**SAR(1 g) = 3.04 mW/g; SAR(10 g) = 2.23 mW/g**



Date Tested: 07/22/2005

# **Body-Worn SAR - 815.0000 MHz - NiCd NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.5 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.83 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M815 ( $\sigma = 0.97$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

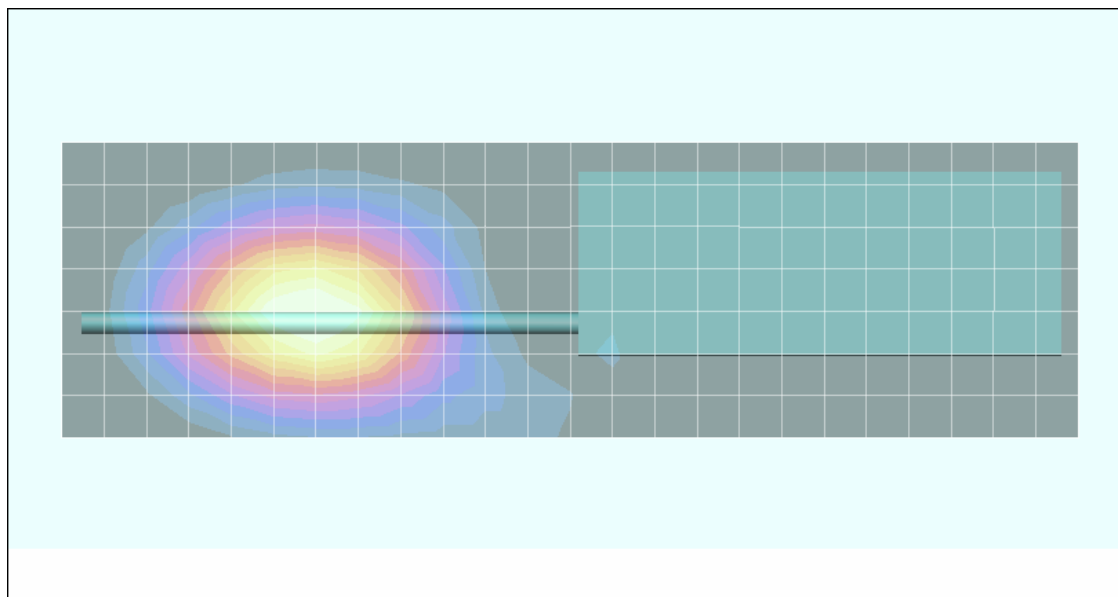
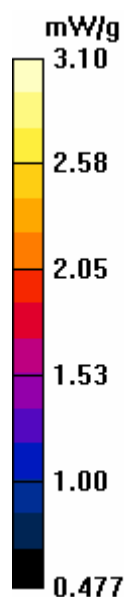
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 14.9 V/m; Power Drift = 0.00684 dB

Peak SAR (extrapolated) = 3.75 W/kg

**SAR(1 g) = 2.92 mW/g; SAR(10 g) = 2.15 mW/g**



Date Tested: 07/22/2005

# **Body-Worn SAR - 815.0000 MHz - NiMH IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.5 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.85 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M815 ( $\sigma = 0.97$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

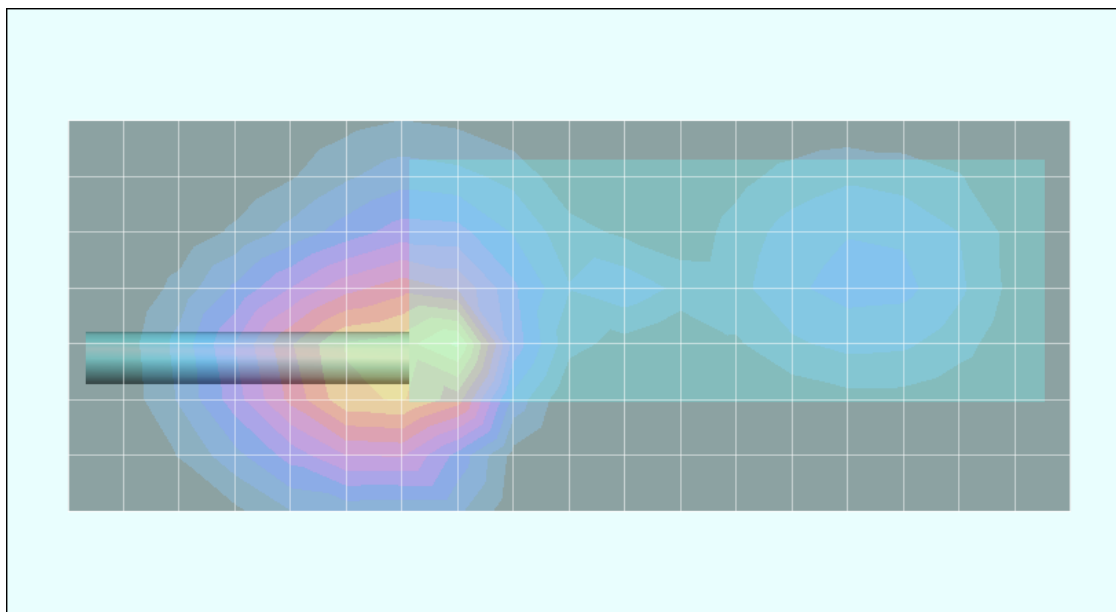
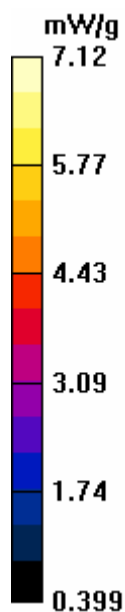
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 56.3 V/m; Power Drift = -0.128 dB

Peak SAR (extrapolated) = 16.7 W/kg

**SAR(1 g) = 6.86 mW/g; SAR(10 g) = 3.45 mW/g**



Date Tested: 07/22/2005

# **Body-Worn SAR - 815.0000 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.5 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.83 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M815 ( $\sigma = 0.97$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

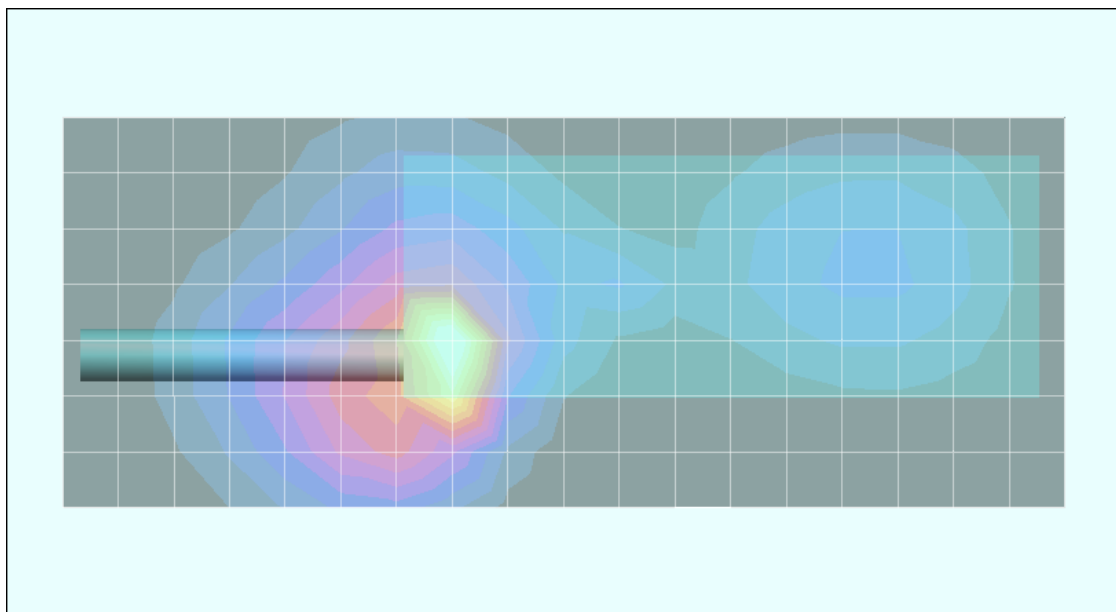
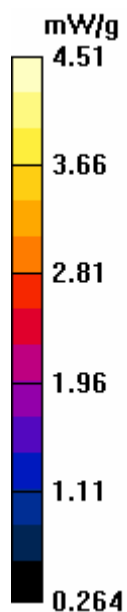
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 54.1 V/m; Power Drift = 0.107 dB

Peak SAR (extrapolated) = 6.95 W/kg

**SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.61 mW/g**



Date Tested: 07/22/2005

# **Body-Worn SAR - 815.0000 MHz - NiCd IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.5 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.86 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M815 ( $\sigma = 0.97$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

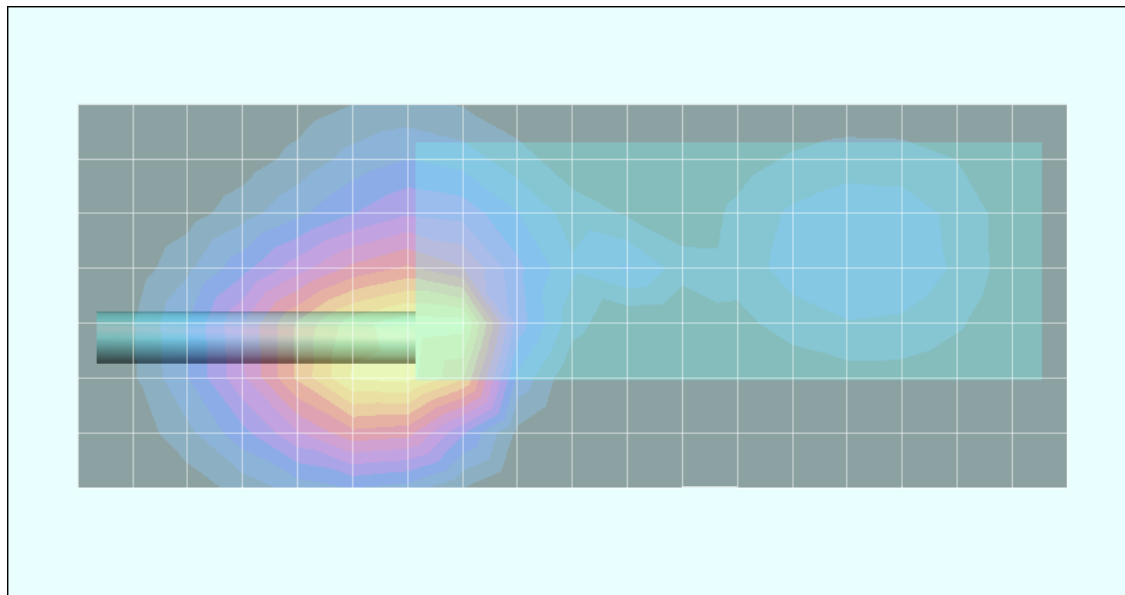
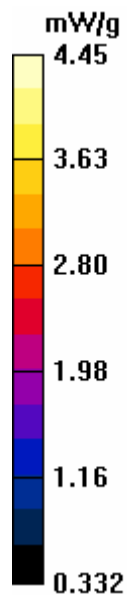
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 53.2 V/m; Power Drift = 0.115 dB

Peak SAR (extrapolated) = 7.06 W/kg

**SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.69 mW/g**



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/22/2005

# **Body-Worn SAR - 815.0000 MHz - NiCd NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 24.5 °C; Fluid Temp: 22.5 °C; Barometric Pressure: 101.9 kPa; Humidity: 31%

Communication System: FM

RF Output Power: 34.87 dBm (Conducted)

Frequency: 815.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M815 ( $\sigma = 0.97$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

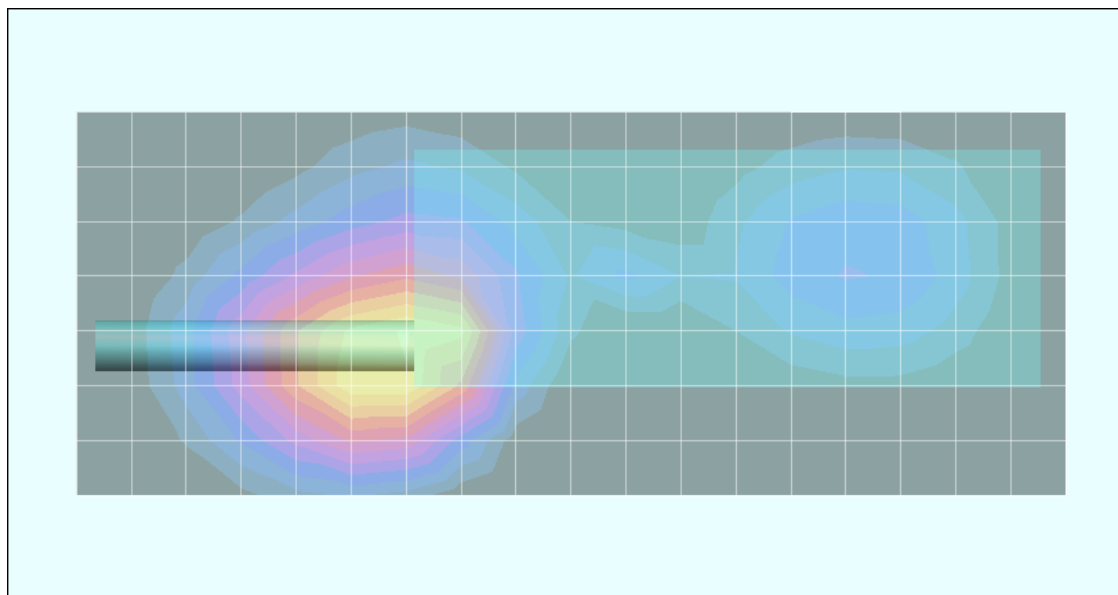
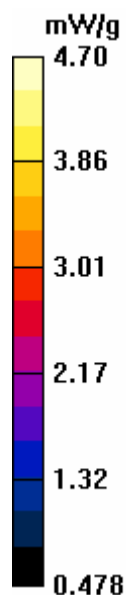
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 53.9 V/m; Power Drift = 0.192 dB

Peak SAR (extrapolated) = 7.04 W/kg

**SAR(1 g) = 4.06 mW/g; SAR(10 g) = 2.79 mW/g**



Date Tested: 07/21/2005

# **Body-Worn SAR - 860.0000 MHz - NiMH IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.3 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.89 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M860 ( $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 55.4$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

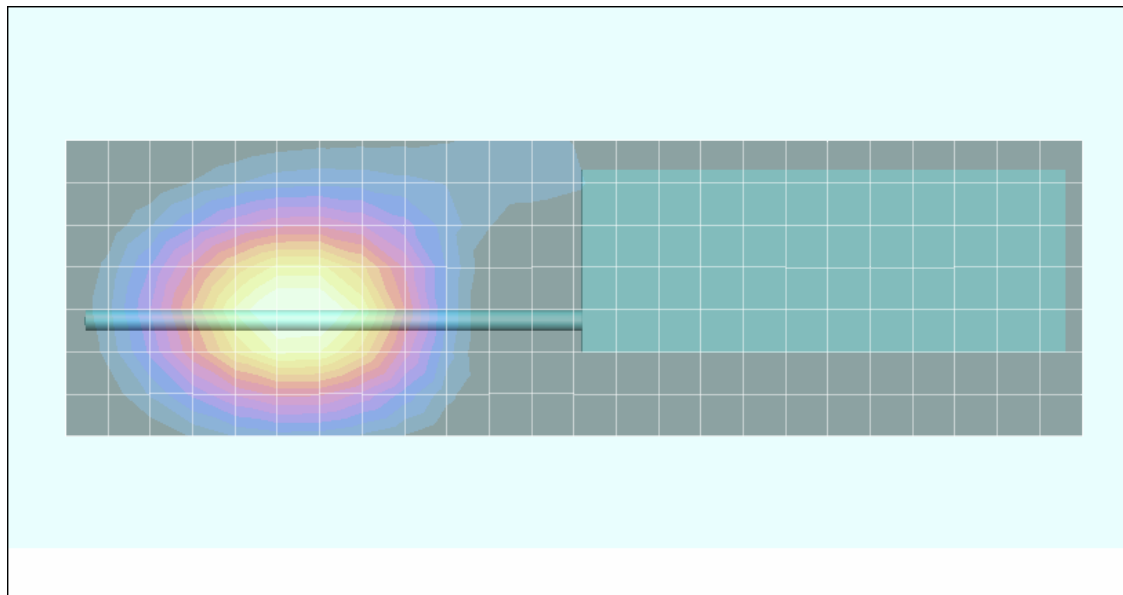
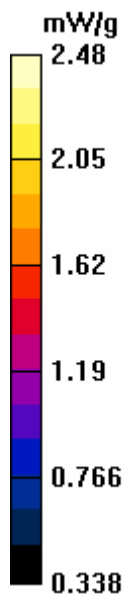
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 18.0 V/m; Power Drift = -0.0446 dB

Peak SAR (extrapolated) = 3.02 W/kg

**SAR(1 g) = 2.31 mW/g; SAR(10 g) = 1.65 mW/g**



Date Tested: 07/21/2005

# **Body-Worn SAR - 860.0000 MHz - NiMH NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.3 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.93 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M860 ( $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 55.4$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

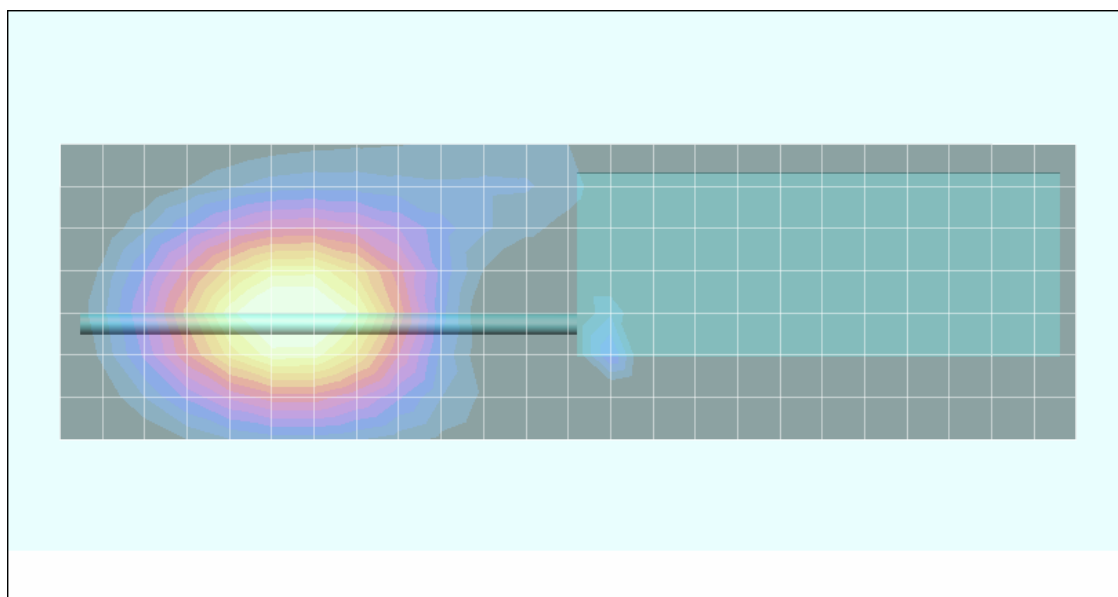
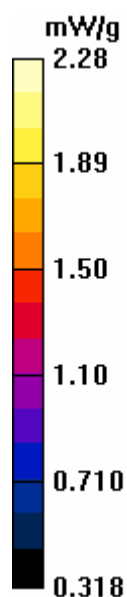
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 21.5 V/m; Power Drift = 0.211 dB

Peak SAR (extrapolated) = 2.78 W/kg

**SAR(1 g) = 2.15 mW/g; SAR(10 g) = 1.56 mW/g**



Date Tested: 07/21/2005

# **Body-Worn SAR - 860.0000 MHz - NiCd IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.3 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.86 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M860 ( $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 55.4$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

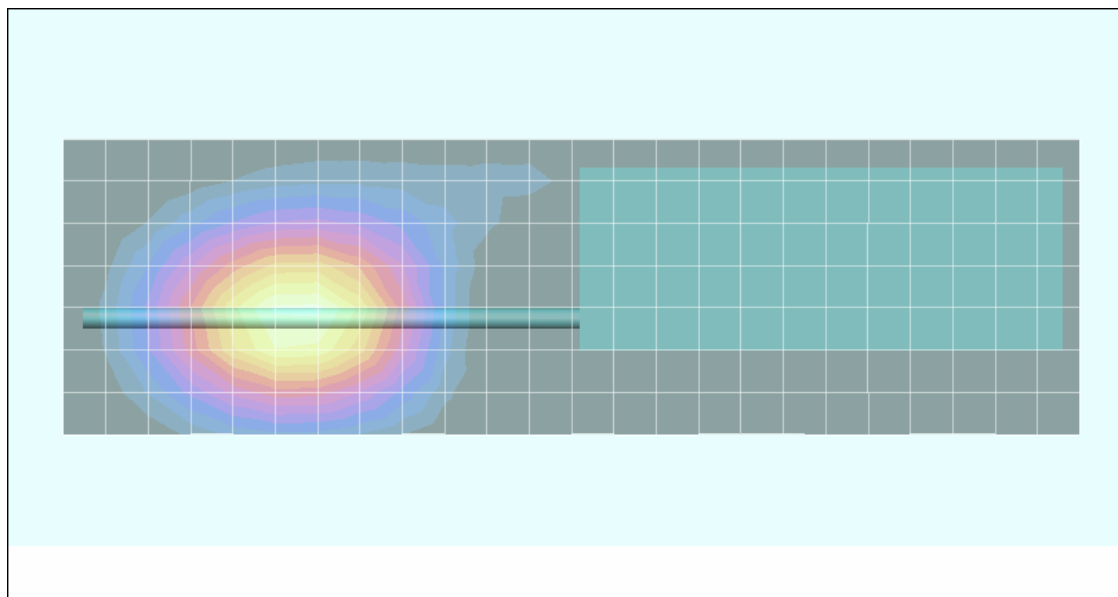
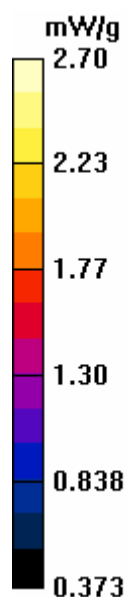
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 15.9 V/m; Power Drift = 0.230 dB

Peak SAR (extrapolated) = 3.31 W/kg

**SAR(1 g) = 2.55 mW/g; SAR(10 g) = 1.84 mW/g**



Date Tested: 07/21/2005

# **Body-Worn SAR - 860.0000 MHz - NiCd NIS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.3 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.82 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M860 ( $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 55.4$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

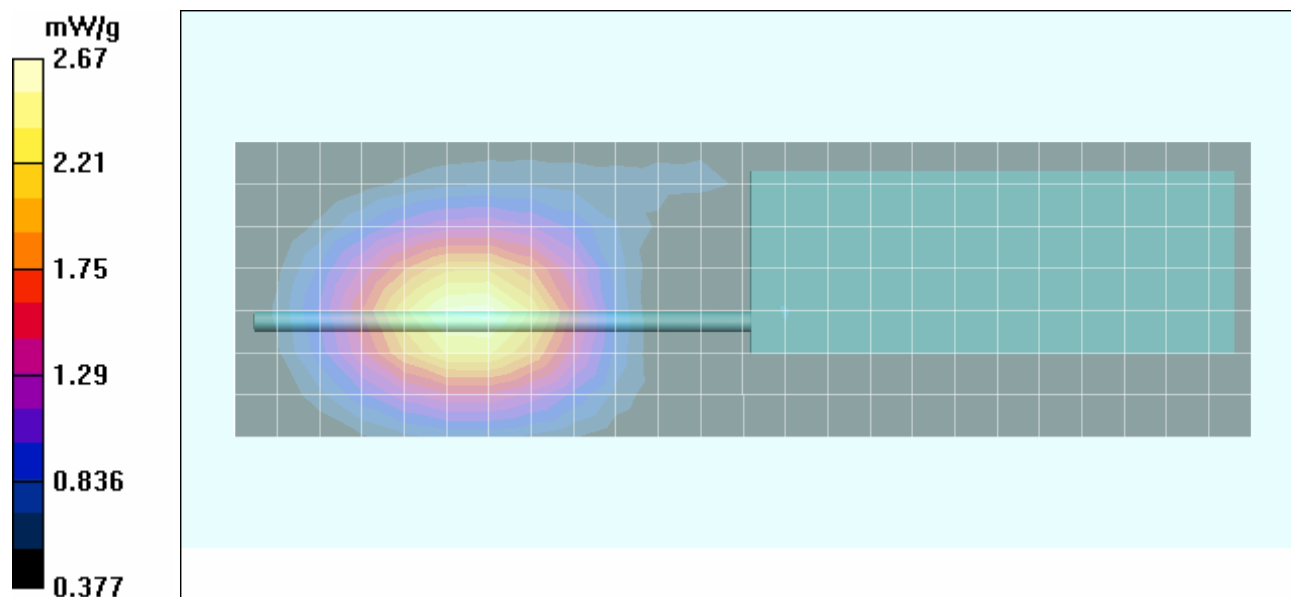
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 17.3 V/m; Power Drift = -0.124 dB

Peak SAR (extrapolated) = 3.27 W/kg

**SAR(1 g) = 2.53 mW/g; SAR(10 g) = 1.83 mW/g**



Date Tested: 07/21/2005

# **Body-Worn SAR - 860.0000 MHz - NiMH IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.3 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.88 dBm (Conducted)

Frequency: 860.0000 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M860 ( $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 55.4$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

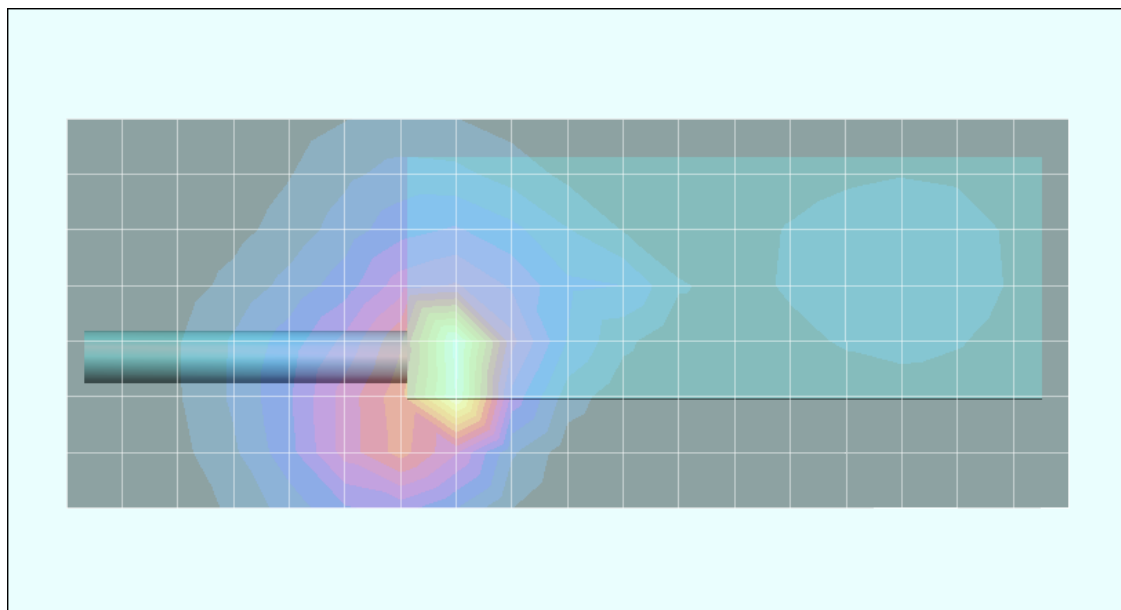
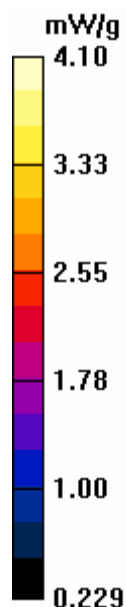
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 47.5 V/m; Power Drift = 0.0766 dB

Peak SAR (extrapolated) = 6.26 W/kg

**SAR(1 g) = 3.52 mW/g; SAR(10 g) = 2.26 mW/g**



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/21/2005

# **Body-Worn SAR - 860.0000 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.3 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

Frequency: 860.0000 MHz; Duty Cycle: 1:1

RF Output Power: 34.91 dBm (Conducted)

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M860 ( $\sigma = 1.03$  mho/m;  $\epsilon_r = 55.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

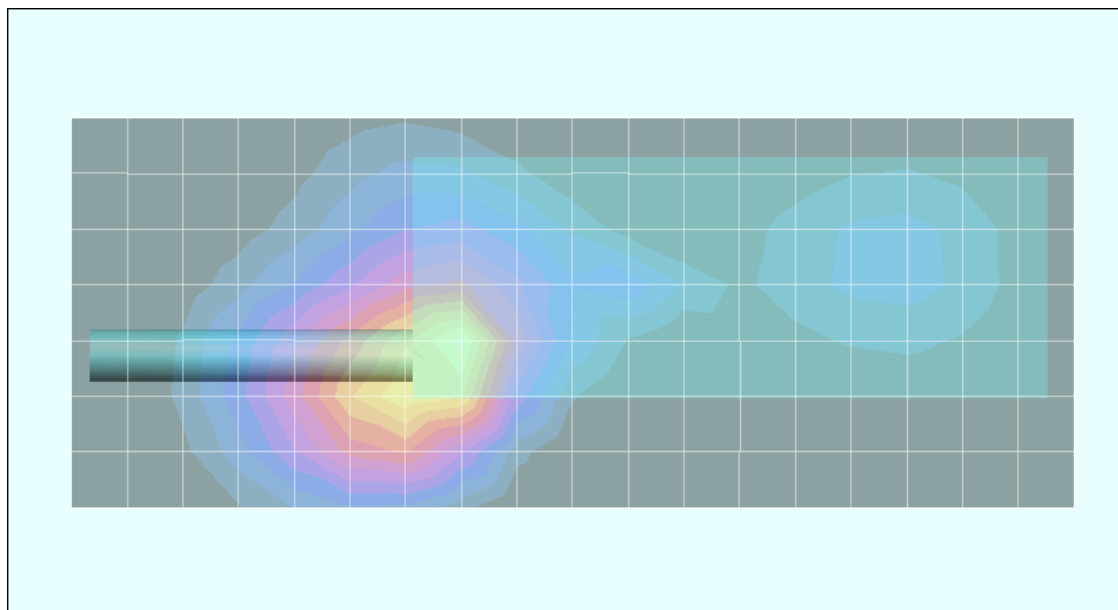
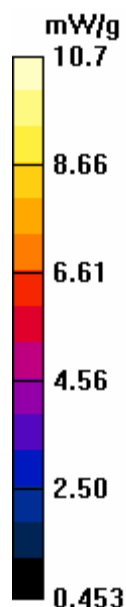
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

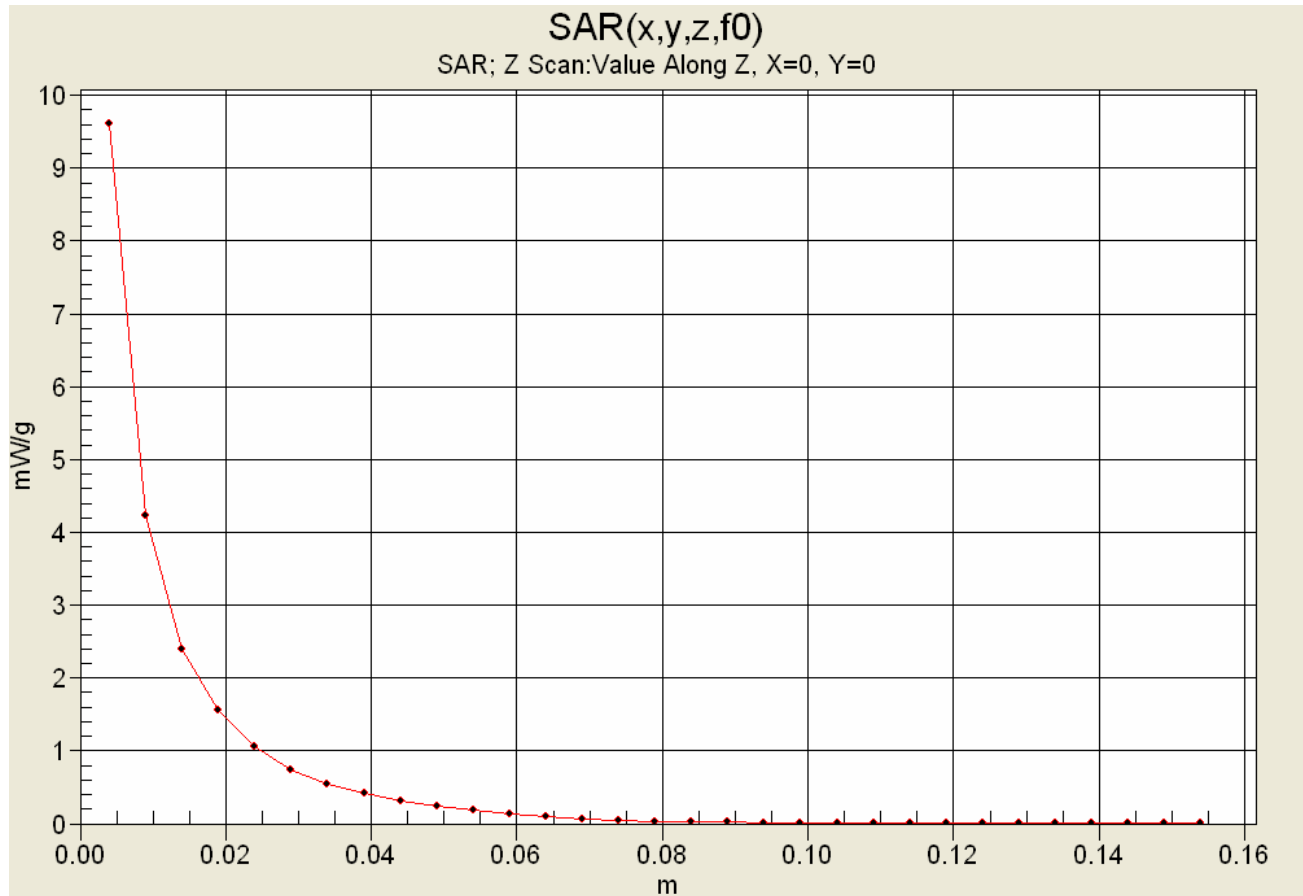
Reference Value = 51.5 V/m; Power Drift = 0.0191 dB

Peak SAR (extrapolated) = 21.3 W/kg

**SAR(1 g) = 8.10 mW/g; SAR(10 g) = 3.8 mW/g**



## Z-Axis Scan



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
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| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/21/2005

# **Body-Worn SAR - 860.0000 MHz - NiCd IS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.3 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

Frequency: 860.0000 MHz; Duty Cycle: 1:1

RF Output Power: 34.83 dBm (Conducted)

NiCd 7.5V Intrinsically Safe Battery (P/N: BKB191210/35)

Medium: M860 ( $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 55.4$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

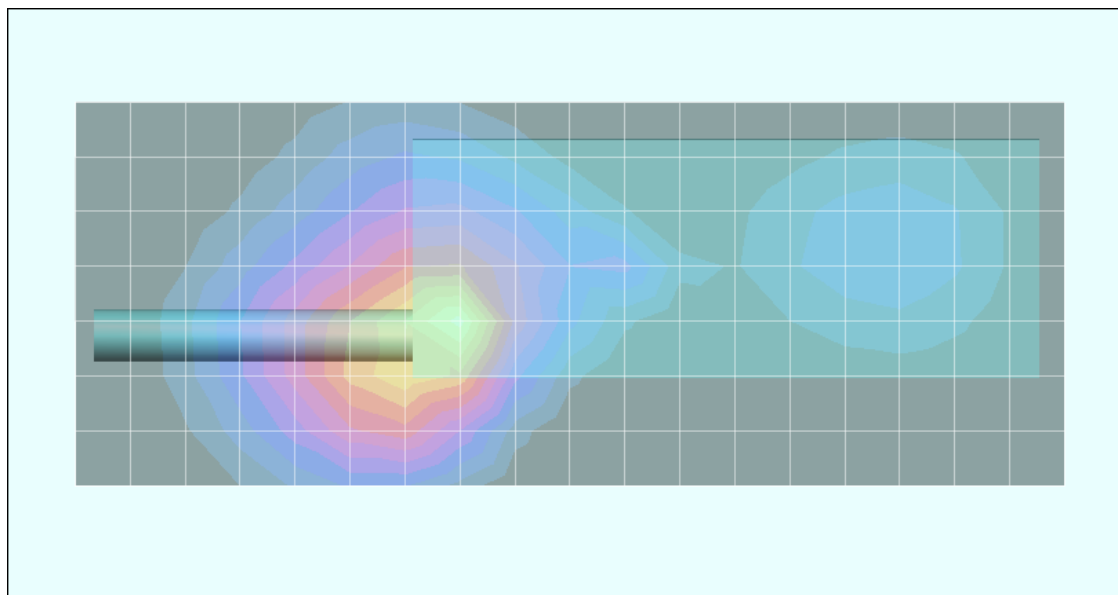
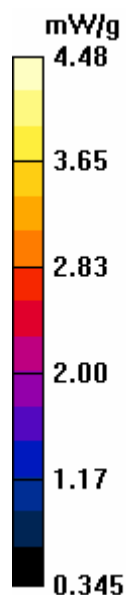
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 49.3 V/m; Power Drift = 0.0753 dB

Peak SAR (extrapolated) = 7.42 W/kg

**SAR(1 g) = 4.14 mW/g; SAR(10 g) = 2.59 mW/g**



Date Tested: 07/21/2005

# **Body-Worn SAR - 860.0000 MHz - NiCd NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.3 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

Frequency: 860.0000 MHz; Duty Cycle: 1:1

RF Output Power: 34.86 dBm (Conducted)

NiCd 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/33)

Medium: M860 ( $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 55.4$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Area Scan (8x19x1):**

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

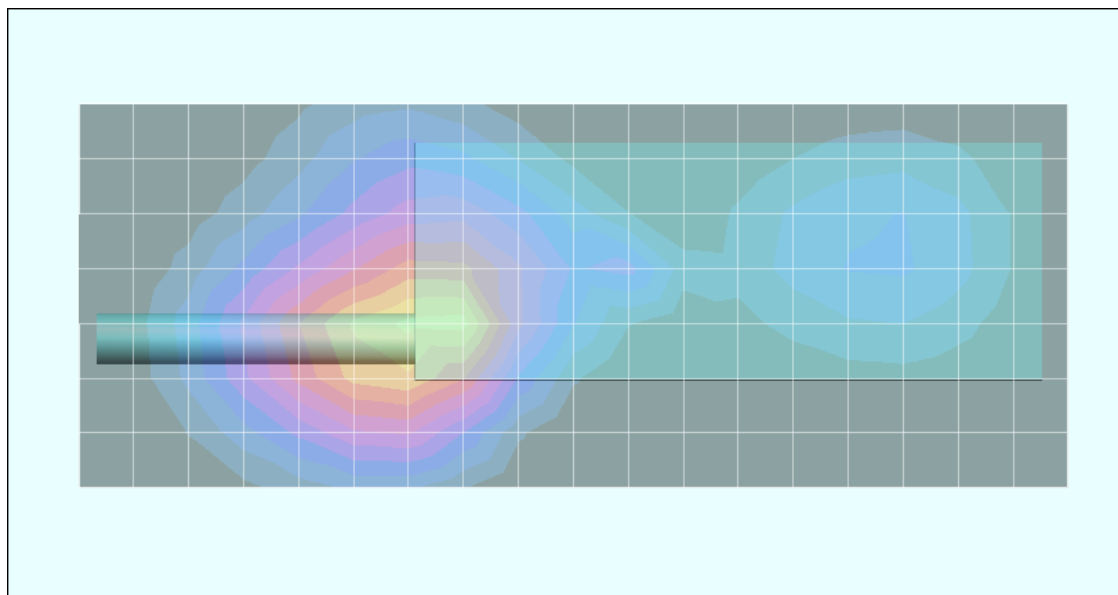
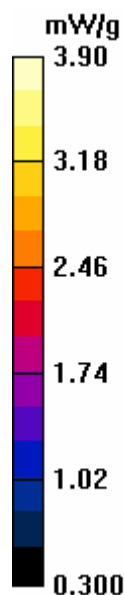
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 48.1 V/m; Power Drift = 0.0984 dB

Peak SAR (extrapolated) = 6.08 W/kg

**SAR(1 g) = 3.56 mW/g; SAR(10 g) = 2.35 mW/g**



|                         |                                       |                |                       |
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| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 07/21/2005

# **Body-Worn SAR - 851.0125 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.3 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

Frequency: 851.0125 MHz; Duty Cycle: 1:1

RF Output Power: 34.84 dBm (Conducted)

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M860 ( $\sigma = 1.03$  mho/m;  $\epsilon_r = 55.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - Low Channel/Area Scan (8x19x1):**

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

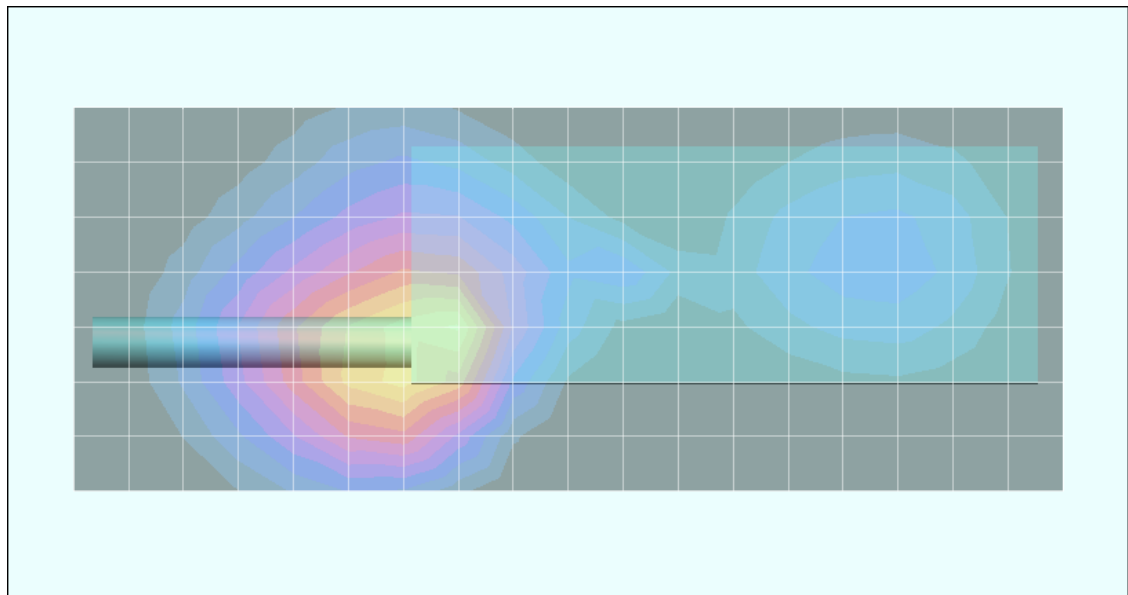
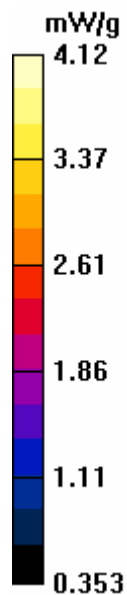
## **Body-Worn - 1.1 cm Leather Case Separation Distance - Low Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 50.3 V/m; Power Drift = 0.0575 dB

Peak SAR (extrapolated) = 6.10 W/kg

**SAR(1 g) = 3.82 mW/g; SAR(10 g) = 2.62 mW/g**



Date Tested: 07/21/2005

# **Body-Worn SAR - 868.9875 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Shoulder Strap (P/N: CC103333V1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 25.3 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: FM

Frequency: 868.9875 MHz; Duty Cycle: 1:1

RF Output Power: 34.83 dBm (Conducted)

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M860 ( $\sigma = 1.03 \text{ mho/m}$ ;  $\epsilon_r = 55.4$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005

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

- Electronics: DAE3 Sn370; Calibrated: 25/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 1.1 cm Leather Case Separation Distance - High Channel/Area Scan (8x19x1):**

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

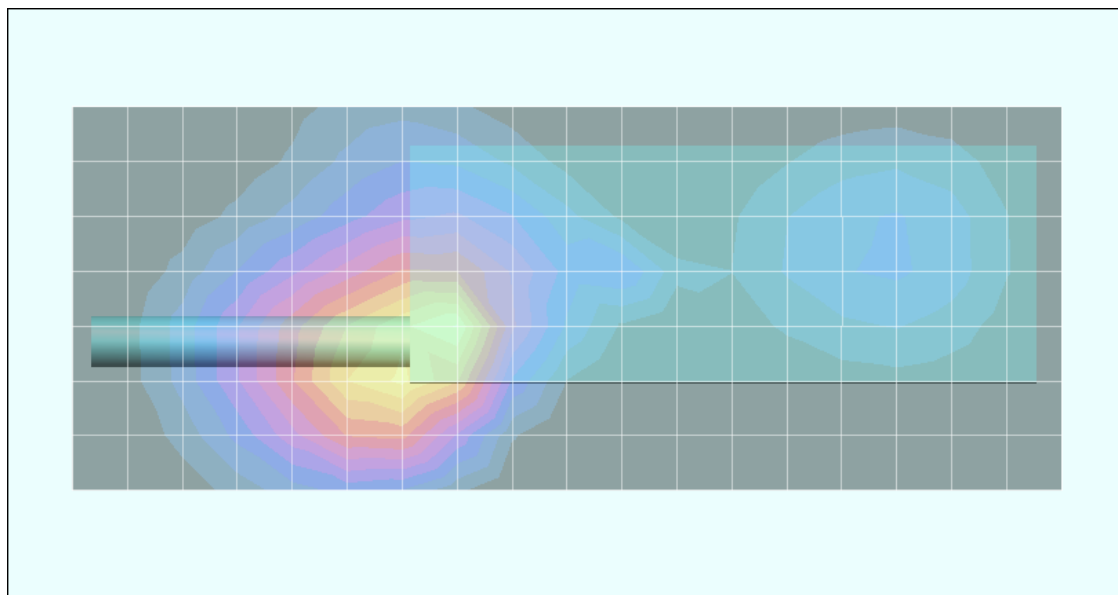
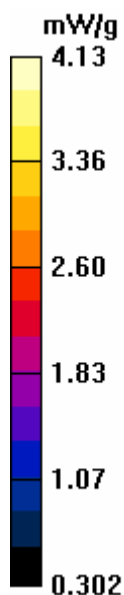
## **Body-Worn - 1.1 cm Leather Case Separation Distance - High Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 47.3 V/m; Power Drift = 0.204 dB

Peak SAR (extrapolated) = 6.85 W/kg

**SAR(1 g) = 3.78 mW/g; SAR(10 g) = 2.33 mW/g**



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

## BODY-WORN with System Radio (Model No.: MAHROS0050)

Body-worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Belt-Loop (P/N: KRY 101 1609/1)  
Audio Accessory: Speaker-Microphone (P/N: KRY 101 1617/183)

Date Tested: 08/03/2005

# **Body-Worn SAR - 766.9875 MHz - NiMH IS Battery - Half-Wave Antenna (P/N: KRE 101 1506/1)**

**DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002**

**Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Belt-Loop (P/N: KRY 101 1609/1)**

**Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)**

Ambient Temp: 23.9 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 102.7 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.09 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Intrinsically Safe Battery (P/N: BKB191210/36)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

## **Body-Worn - 4.2 cm Leather Case & Belt-Loop Separation Distance - Mid Channel/Area Scan (8x25x1):**

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

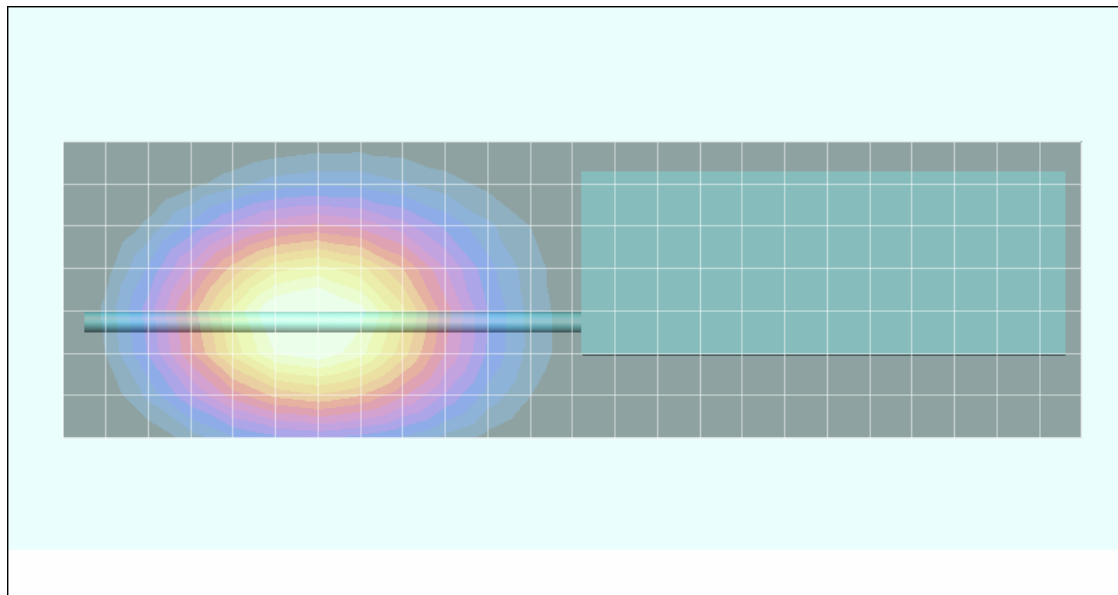
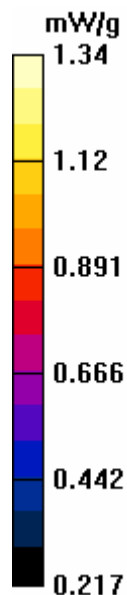
## **Body-Worn - 4.2 cm Leather Case & Belt-Loop Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 15.1 V/m; Power Drift = 0.141 dB

Peak SAR (extrapolated) = 1.93 W/kg

**SAR(1 g) = 1.30 mW/g; SAR(10 g) = 0.942 mW/g**



|                         |                                       |                |                       |
|-------------------------|---------------------------------------|----------------|-----------------------|
| Test Report Serial No.: | 071105BV8-T656-S90F                   | TR Issue Date: | August 25, 2005       |
| Dates of Evaluation:    | July 19-22, 25-28, August 02-04, 2005 |                | Issue 1 Rev. 3        |
| Description of Test:    | RF Exposure                           | SAR            | FCC 2.1093 IC RSS-102 |

Date Tested: 08/03/2005

## Body-Worn SAR - 766.9875 MHz - NiMH NIS Battery - Quarter-Wave Antenna (P/N: KRE 101 1506/2)

DUT: M/A-COM Model: P7200; Type: Portable FM PTT Radio Transceiver (Model No.: MAHROS0050); Serial: A40041001002

Body-Worn Accessories: Leather Case Kit (P/N: KRY 101 1639/4) & Leather Belt-Loop (P/N: KRY 101 1609/1)

Audio Accessories: Speaker-Microphone (P/N: KRY 101 1617/183)

Ambient Temp: 23.9 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 102.7 kPa; Humidity: 30%

Communication System: FM

RF Output Power: 34.11 dBm (Conducted)

Frequency: 766.9875 MHz; Duty Cycle: 1:1

NiMH 7.5V Non-Intrinsically Safe Battery (P/N: BKB191210/34)

Medium: M767 ( $\sigma = 0.92$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(6.5, 6.5, 6.5); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: Planar; Type: Plexiglas; Serial: 161
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Body-Worn - 4.2 cm Leather Case & Belt-Loop Separation Distance - Mid Channel/Area Scan (8x19x1):

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

### Body-Worn - 4.2 cm Leather Case & Belt-Loop Separation Distance - Mid Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 36.5 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 1.69 mW/g; SAR(10 g) = 1.22 mW/g

