

APPENDIX A - SAR MEASUREMENT DATA

Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (0°,0°)
 Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0
 1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³
 Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
 Cube 5x5x7
 SAR (1g): 0.215 mW/g, SAR (10g): 0.123 mW/g

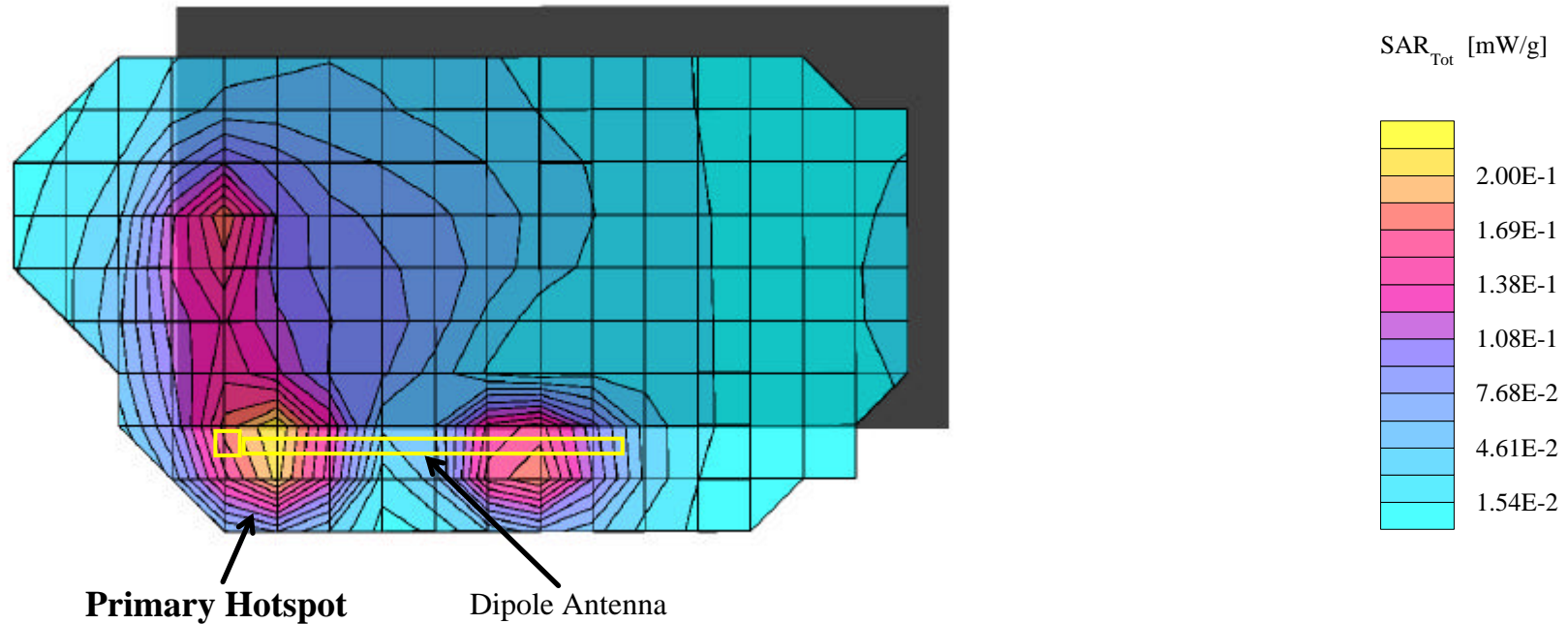
Body SAR - Back of LCD Display (Closed) - Antenna Parallel to Planar Phantom (Stowed Position)
 1.5 cm Separation Distance from Back of LCD Display to Planar Phantom

Itronix IX260 Rugged Laptop PC
 with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card
 co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card
 PCS GPRS Mode

Simultaneous Transmit with co-located DSSS WLAN Card

Channel 661 [1880.00 MHz]
 Conducted Power: 27.9 dBm
 Ambient Temp: 22.8°C; Fluid Temp: 23.1°C
 Date Tested: March 24, 2003

Primary Hotspot Evaluation

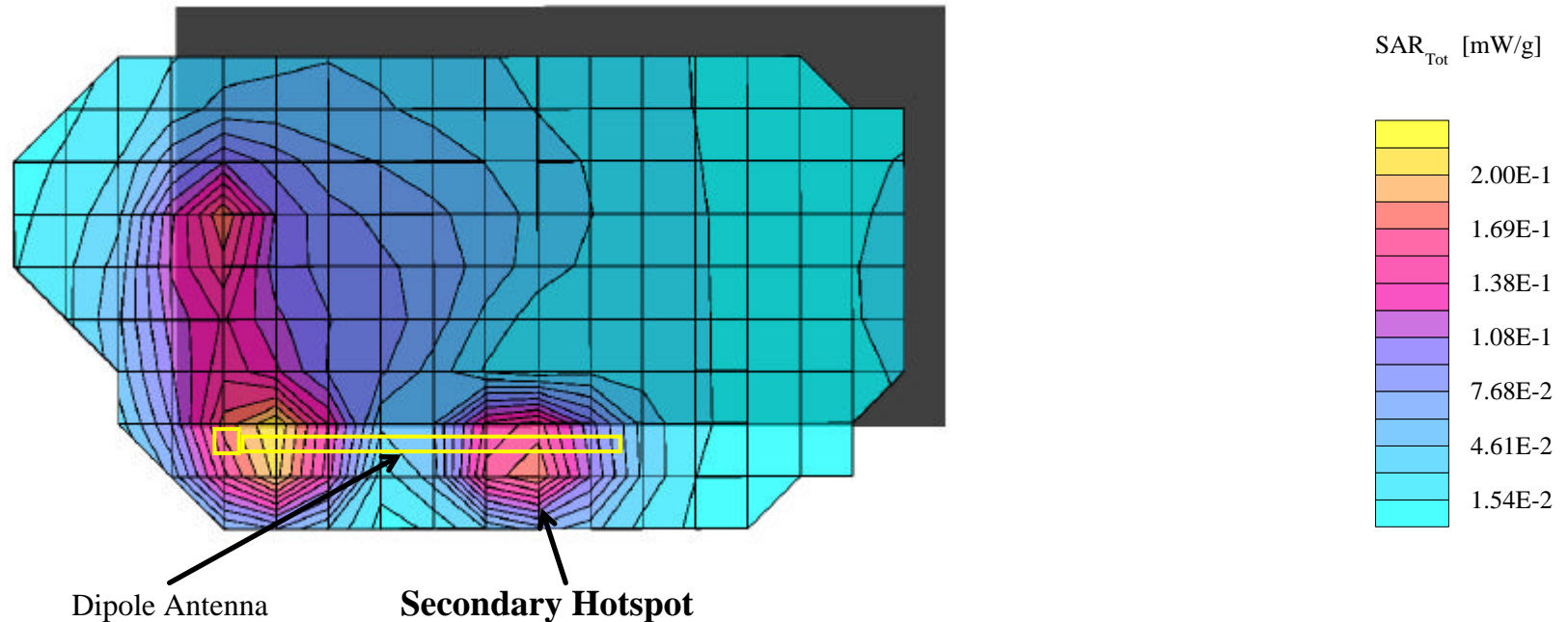


Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (0°,0°)
 Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0
 1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³
 Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
 Cube 5x5x7
 SAR (1g): 0.187 mW/g, SAR (10g): 0.108 mW/g

Body SAR - Back of LCD Display (Closed) - Antenna Parallel to Planar Phantom (Stowed Position)
 1.5 cm Separation Distance from Back of LCD Display to Planar Phantom
 Itronix IX260 Rugged Laptop PC
 with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card
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 PCS GPRS Mode
Simultaneous Transmit with co-located DSSS WLAN Card
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Secondary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (0°,0°)
 Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0
 1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³
 Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

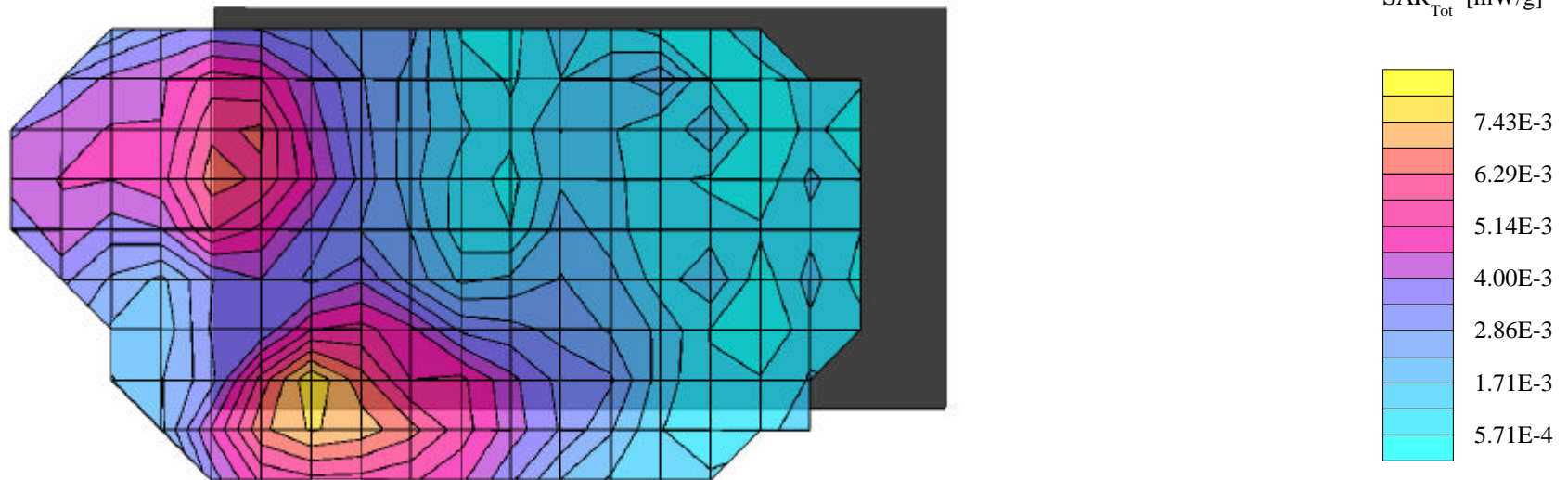
Body SAR - Back of LCD Display (Closed) - Antenna Parallel to Planar Phantom (Stowed Position)
 1.5 cm Separation Distance from Back of LCD Display to Planar Phantom

Itronix IX260 Rugged Laptop PC
 with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card
 co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card
 PCS GPRS Mode

Simultaneous Transmit with co-located DSSS WLAN Card

Channel 661 [1880.00 MHz]
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 Date Tested: March 24, 2003

Coarse scan to show Left Half of LCD Display (Back Side)



Itronix Corporation FCC ID: KBCIX260AC750-MPI

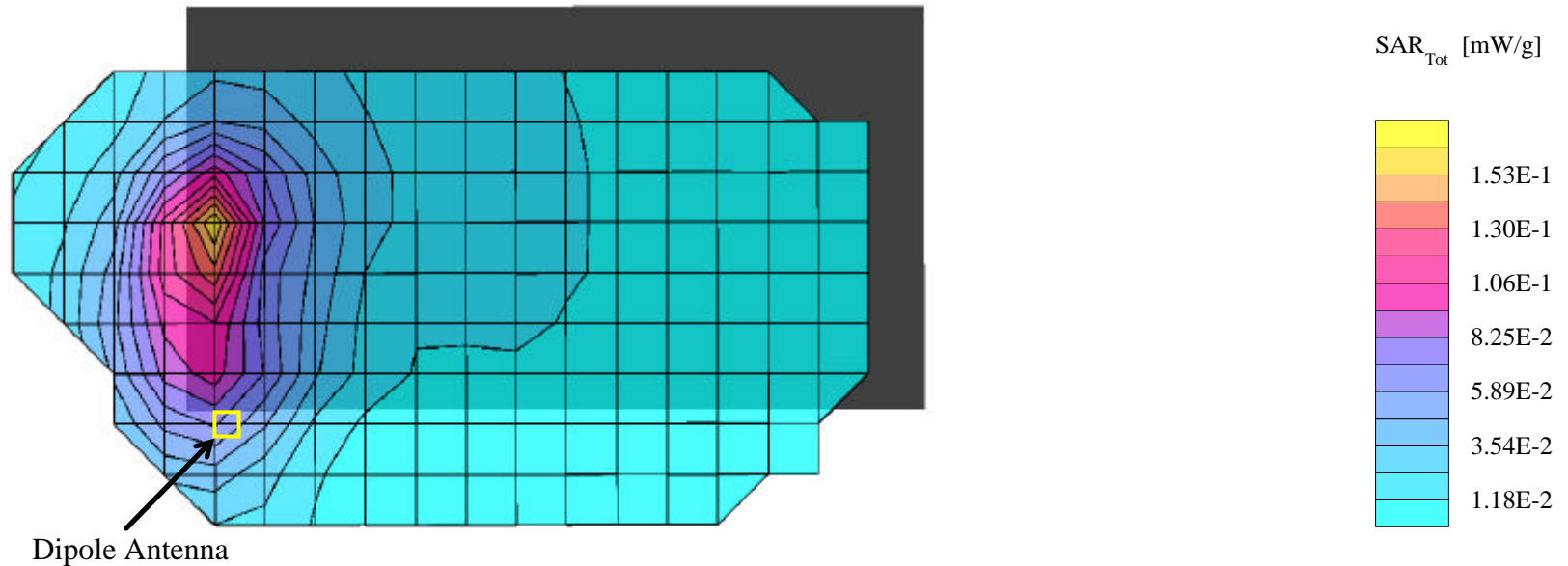
SAM Phantom; Flat Section; Position: (0°,0°)
 Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0
 1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³
 Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
 Cube 5x5x7
 SAR (1g): 0.149 mW/g, SAR (10g): 0.0791 mW/g

Body SAR - Back of LCD Display (Closed) - Antenna Perpendicular to Planar Phantom (180°)
 1.5 cm Separation Distance from Back of LCD Display to Planar Phantom

Itronix IX260 Rugged Laptop PC
 with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card
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 PCS GPRS Mode

Simultaneous Transmit with co-located DSSS WLAN Card

Channel 661 [1880.00 MHz]
 Conducted Power: 27.9 dBm
 Ambient Temp: 22.8°C; Fluid Temp: 23.1°C
 Date Tested: March 24, 2003



Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (0°,0°)
Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0
1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³
Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 0.0828 mW/g, SAR (10g): 0.0413 mW/g

Body SAR - Bottom of Laptop PC (LCD Display Closed) - Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Bottom of Laptop PC to Planar Phantom

Itronix IX260 Rugged Laptop PC

with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card

co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card

PCS GPRS Mode

Simultaneous Transmit with co-located DSSS WLAN Card

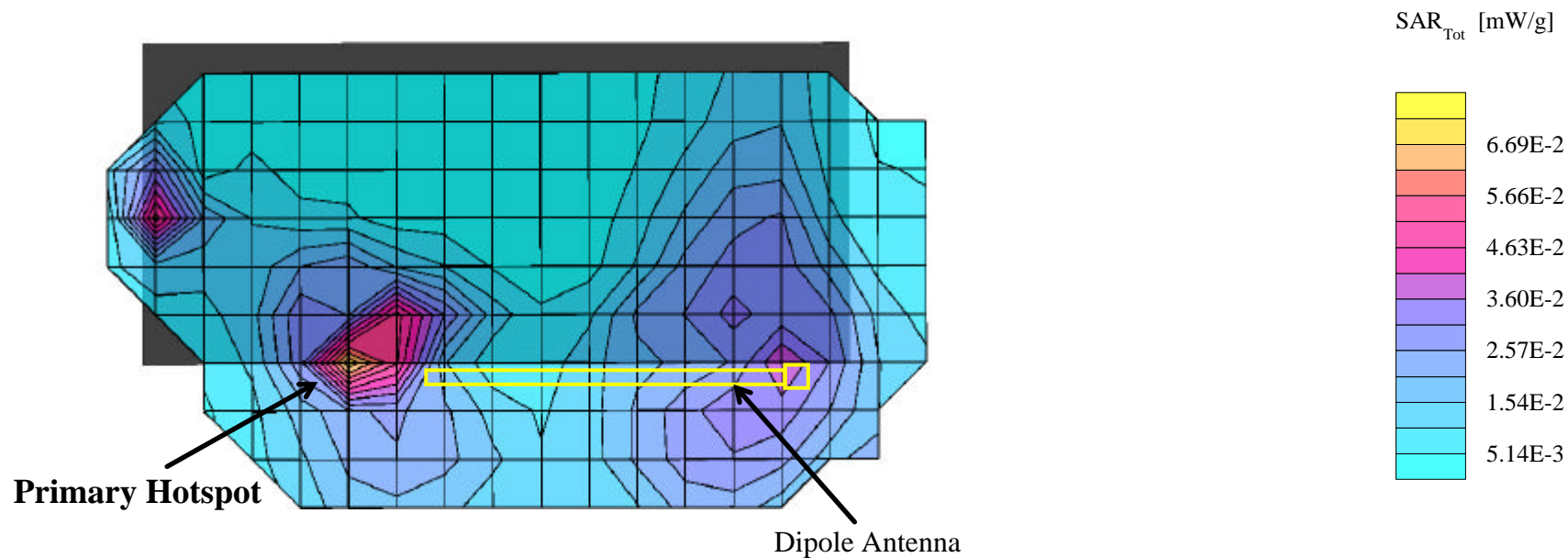
Channel 661 [1880.00 MHz]

Conducted Power: 27.9 dBm

Ambient Temp: 22.8°C; Fluid Temp: 23.1°C

Date Tested: March 24, 2003

Primary Hotspot Evaluation



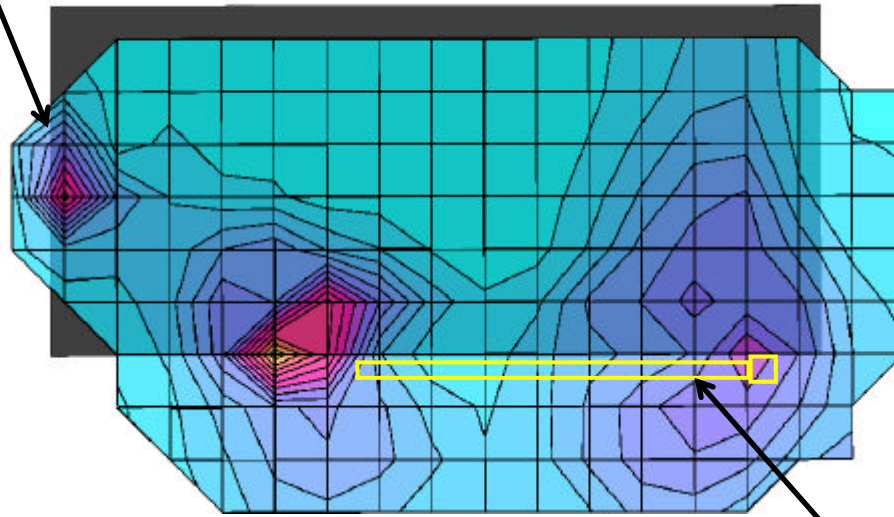
Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (0°,0°)
 Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0
 1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³
 Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
 Cube 5x5x7
 SAR (1g): 0.0706 mW/g, SAR (10g): 0.0284 mW/g

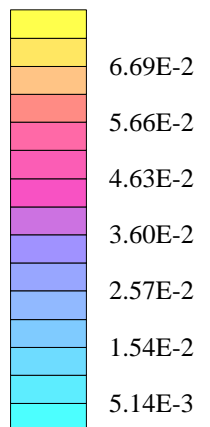
Body SAR - Bottom of Laptop PC (LCD Display Closed) - Antenna Parallel to Planar Phantom (Stowed Position)
 0.0 cm Separation Distance from Bottom of Laptop PC to Planar Phantom
 Itronix IX260 Rugged Laptop PC
 with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card
 co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card
 PCS GPRS Mode
Simultaneous Transmit with co-located DSSS WLAN Card
 Channel 661 [1880.00 MHz]
 Conducted Power: 27.9 dBm
 Ambient Temp: 22.8°C; Fluid Temp: 23.1°C
 Date Tested: March 24, 2003

Secondary Hotspot Evaluation

Secondary Hotspot



SAR_{Tot} [mW/g]

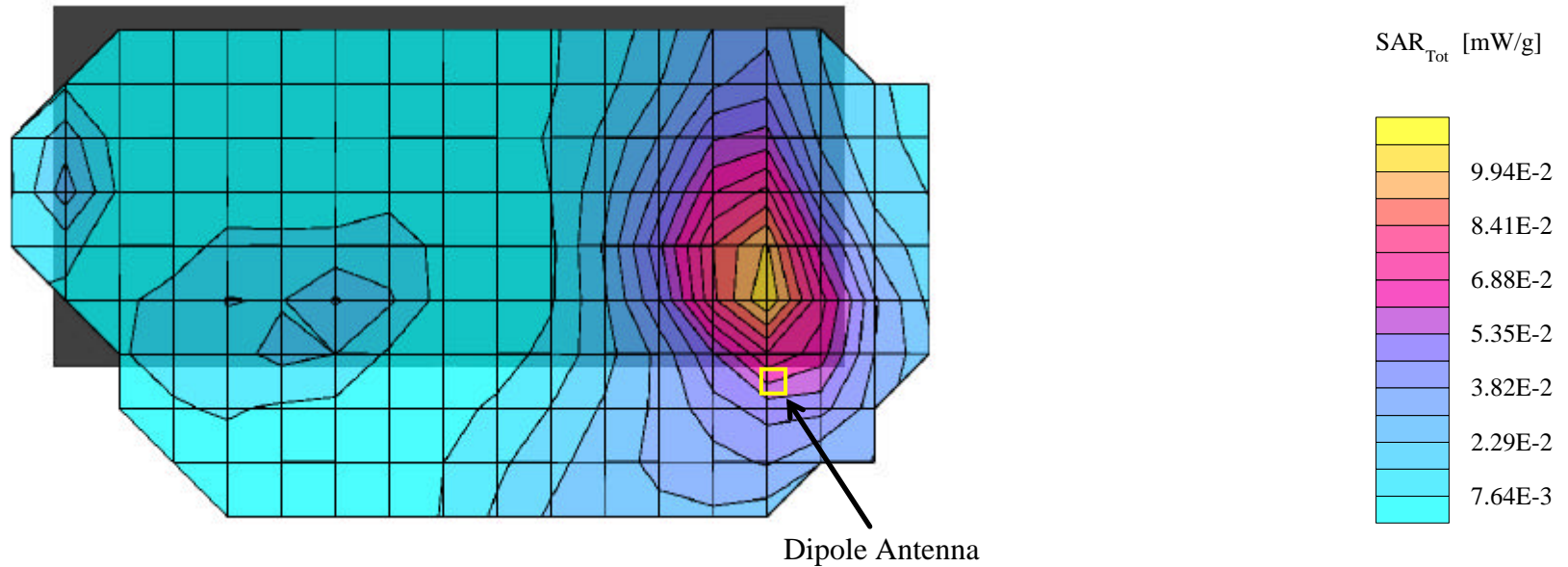


Dipole Antenna

Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (0°,0°)
 Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0
 1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³
 Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
 Cube 5x5x7
 SAR (1g): 0.104 mW/g, SAR (10g): 0.0624 mW/g

Body SAR - Bottom of Laptop PC (LCD Display Closed) - Antenna Perpendicular to Planar Phantom (Extended Position)
 0.0 cm Separation Distance from Bottom of Laptop PC to Planar Phantom
 Itronix IX260 Rugged Laptop PC
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 PCS GPRS Mode
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 Channel 661 [1880.00 MHz]
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 Ambient Temp: 22.8°C; Fluid Temp: 23.1°C
 Date Tested: March 24, 2003



Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (0°,0°)
 Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0
 1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³
 Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

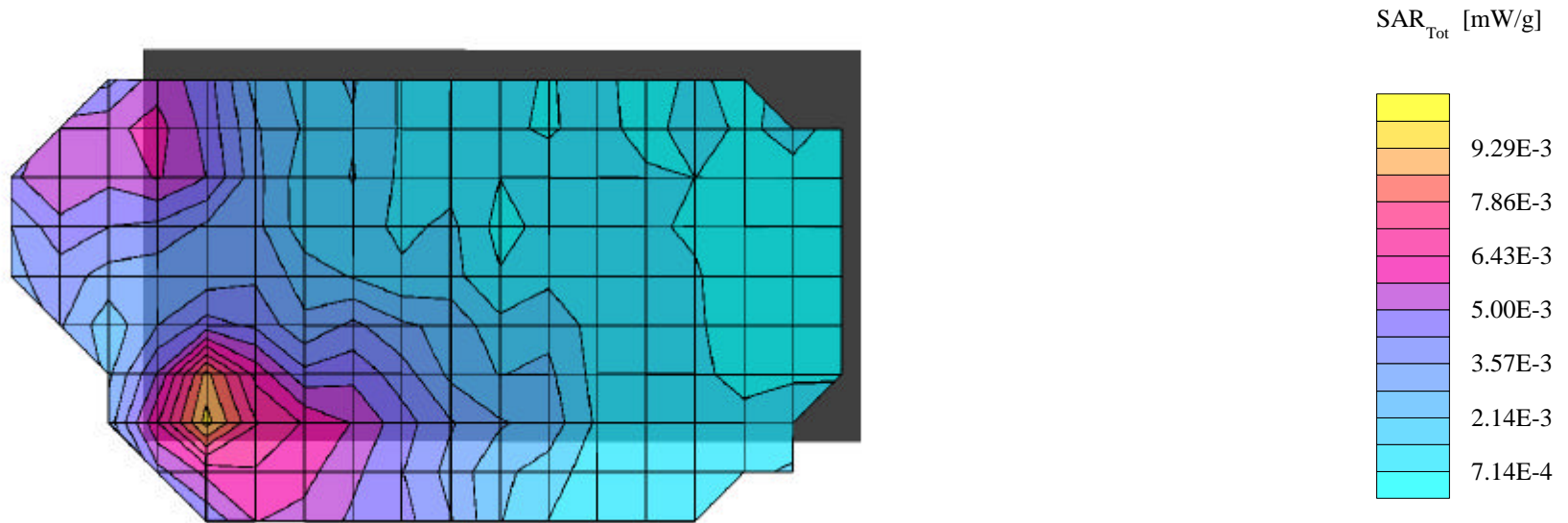
Body SAR - Bottom of Laptop PC (LCD Display Closed) - Antenna Perpendicular to Planar Phantom (Extended Position)
 0.0 cm Separation Distance from Bottom of Laptop PC to Planar Phantom

Itronix IX260 Rugged Laptop PC
 with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card
 co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card
 PCS GPRS Mode

Simultaneous Transmit with co-located DSSS WLAN Card

Channel 661 [1880.00 MHz]
 Conducted Power: 27.9 dBm
 Ambient Temp: 22.8°C; Fluid Temp: 23.1°C
 Date Tested: March 24, 2003

Coarse scan to show Left Half of Bottom Side



Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (90°,0°)

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0

1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 0.990 mW/g, SAR (10g): 0.523 mW/g

Body SAR - Right Side of LCD Display (Closed) - Antenna Parallel to Planar Phantom (Stowed Position)

1.5 cm Separation Distance from Dipole Antenna to Planar Phantom

Itronix IX260 Rugged Laptop PC

with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card

co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card

PCS GPRS Mode

Simultaneous Transmit with co-located DSSS WLAN Card

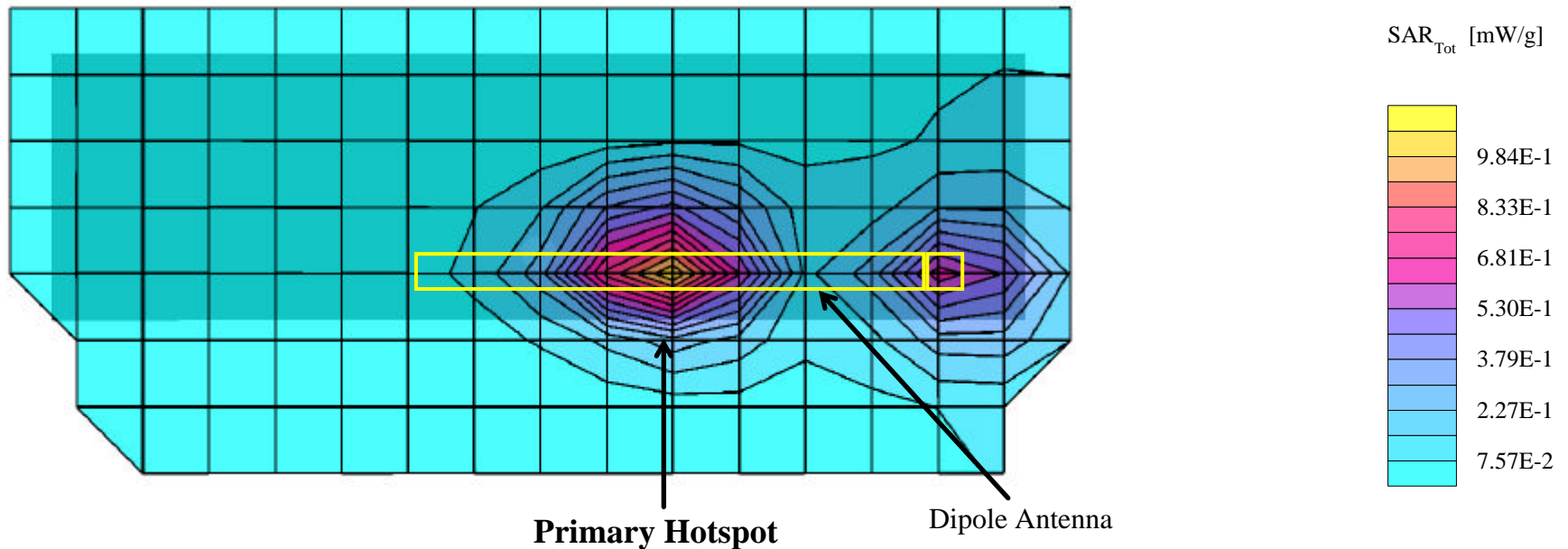
Channel 661 [1880.00 MHz]

Conducted Power: 27.9 dBm

Ambient Temp: 22.8°C; Fluid Temp: 23.1°C

Date Tested: March 24, 2003

Primary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section
Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0
1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Z-Axis Extrapolation at Peak SAR Location

Body SAR - Right Side of LCD Display (Closed) - Antenna Parallel to Planar Phantom (Stowed Position)

1.5 cm Separation Distance from Dipole Antenna to Planar Phantom

Itronix IX260 Rugged Laptop PC

with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card

co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card

PCS GPRS Mode

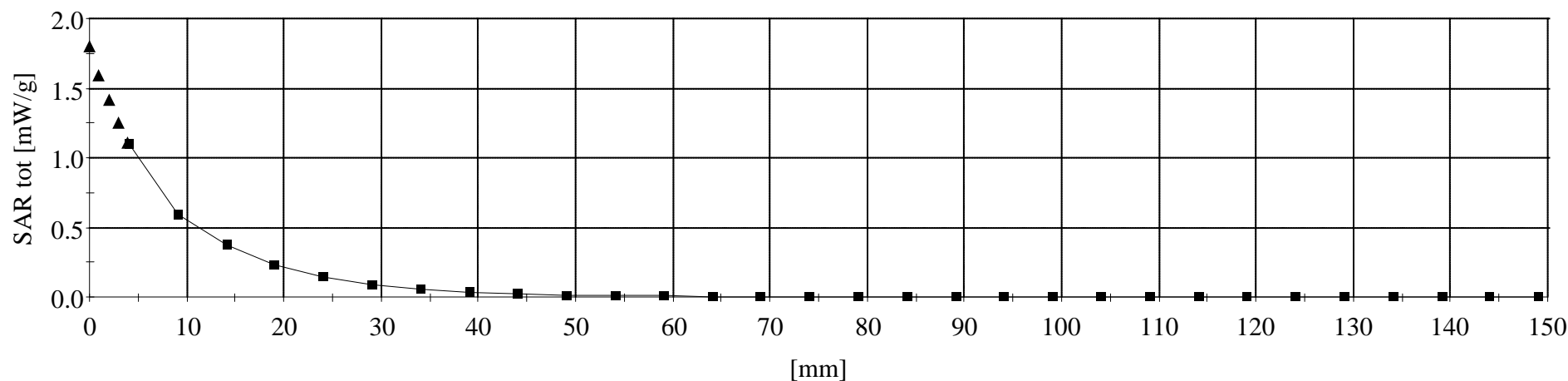
Simultaneous Transmit with co-located DSSS WLAN Card

Channel 661 [1880.00 MHz]

Conducted Power: 27.9 dBm

Ambient Temp: 22.8°C; Fluid Temp: 23.1°C

Date Tested: March 24, 2003



Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (90°,0°)

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0

1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 0.408 mW/g, SAR (10g): 0.215 mW/g

Body SAR - Right Side of LCD Display (Closed) - Antenna Parallel to Planar Phantom (Stowed Position)

1.5 cm Separation Distance from Dipole Antenna to Planar Phantom

Itronix IX260 Rugged Laptop PC

with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card

co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card

PCS GPRS Mode

Simultaneous Transmit with co-located DSSS WLAN Card

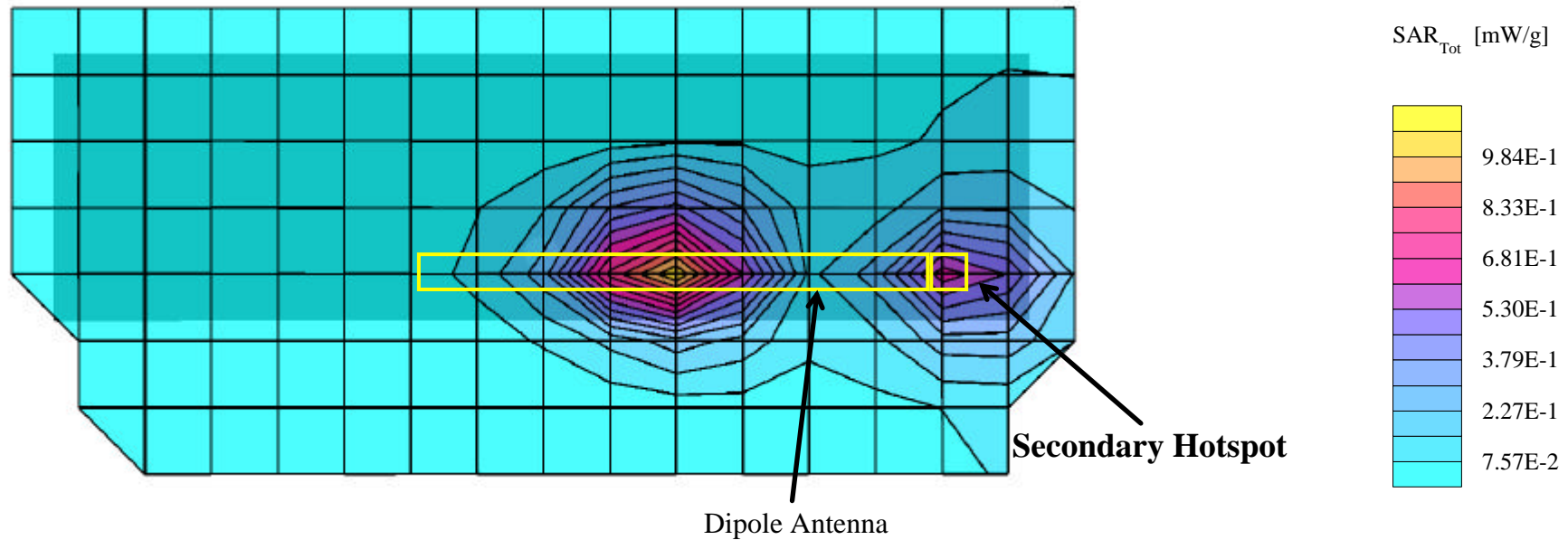
Channel 661 [1880.00 MHz]

Conducted Power: 27.9 dBm

Ambient Temp: 22.8°C; Fluid Temp: 23.1°C

Date Tested: March 24, 2003

Secondary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (90°,0°)

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0

1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 0.793 mW/g, SAR (10g): 0.438 mW/g

Body SAR - Right Side of LCD Display (Closed) - Antenna Parallel to Planar Phantom (Stowed Position)

1.5 cm Separation Distance from Dipole Antenna to Planar Phantom

Itronix IX260 Rugged Laptop PC

with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card

co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card

PCS GPRS Mode

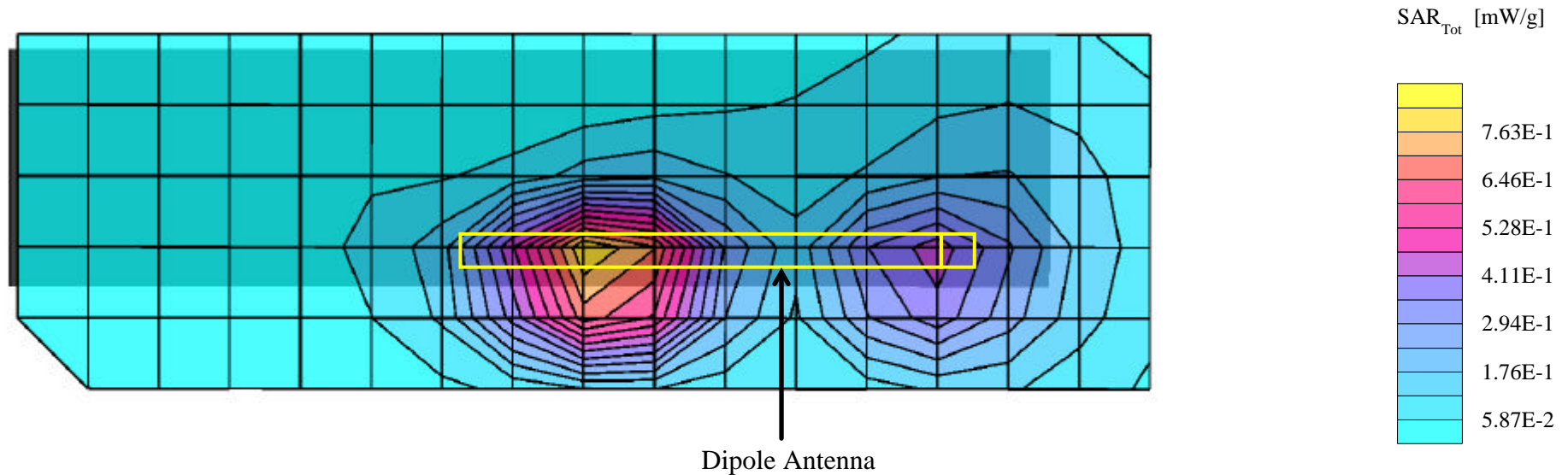
Simultaneous Transmit with co-located DSSS WLAN Card

Channel 512 [1850.25 MHz]

Conducted Power: 27.9 dBm

Ambient Temp: 22.8°C; Fluid Temp: 23.1°C

Date Tested: March 24, 2003



Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (90°,0°)

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0

1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 0.886 mW/g, SAR (10g): 0.470 mW/g

Body SAR - Right Side of LCD Display (Closed) - Antenna Parallel to Planar Phantom (Stowed Position)

1.5 cm Separation Distance from Dipole Antenna to Planar Phantom

Itronix IX260 Rugged Laptop PC

with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card

co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card

PCS GPRS Mode

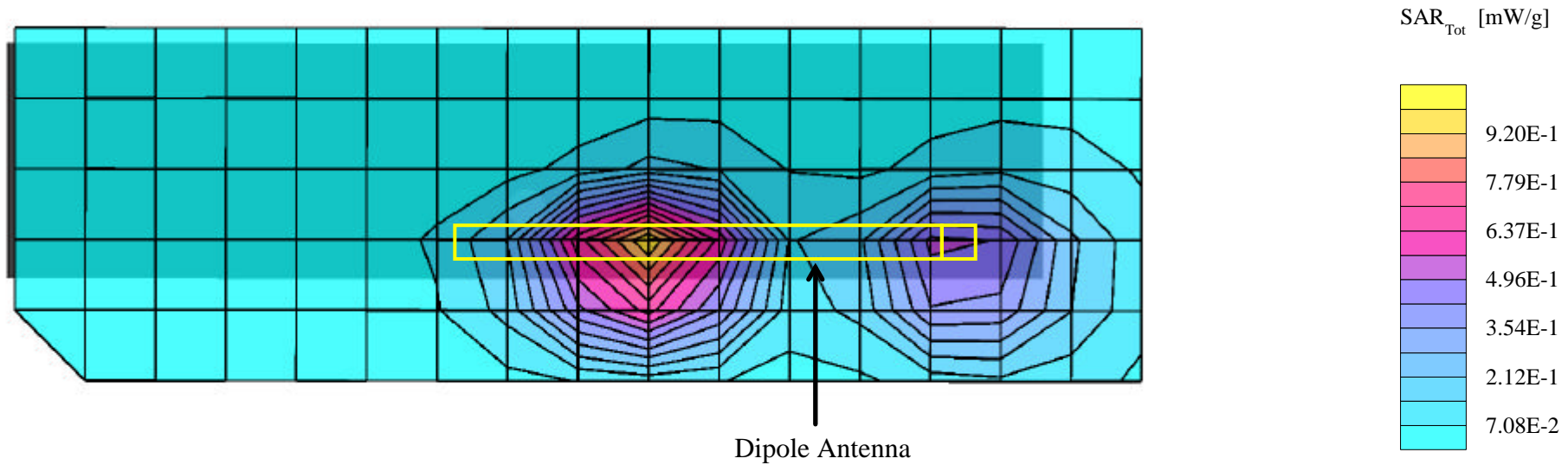
Simultaneous Transmit with co-located DSSS WLAN Card

Channel 810 [1909.875 MHz]

Conducted Power: 27.8 dBm

Ambient Temp: 22.8°C; Fluid Temp: 23.1°C

Date Tested: March 24, 2003



Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (90°,0°)

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0

1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0

Cube 5x5x7

SAR (1g): 0.309 mW/g, SAR (10g): 0.180 mW/g

Body SAR - Right Side of LCD Display (Closed) - Antenna Parallel to Planar Phantom (Extended Position)

1.5 cm Separation Distance from Dipole Antenna to Planar Phantom

Itronix IX260 Rugged Laptop PC

with Sierra Wireless AirCard 750 PCS GSM/GPRS Modem Card

co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card

PCS GPRS Mode

Simultaneous Transmit with co-located DSSS WLAN Card

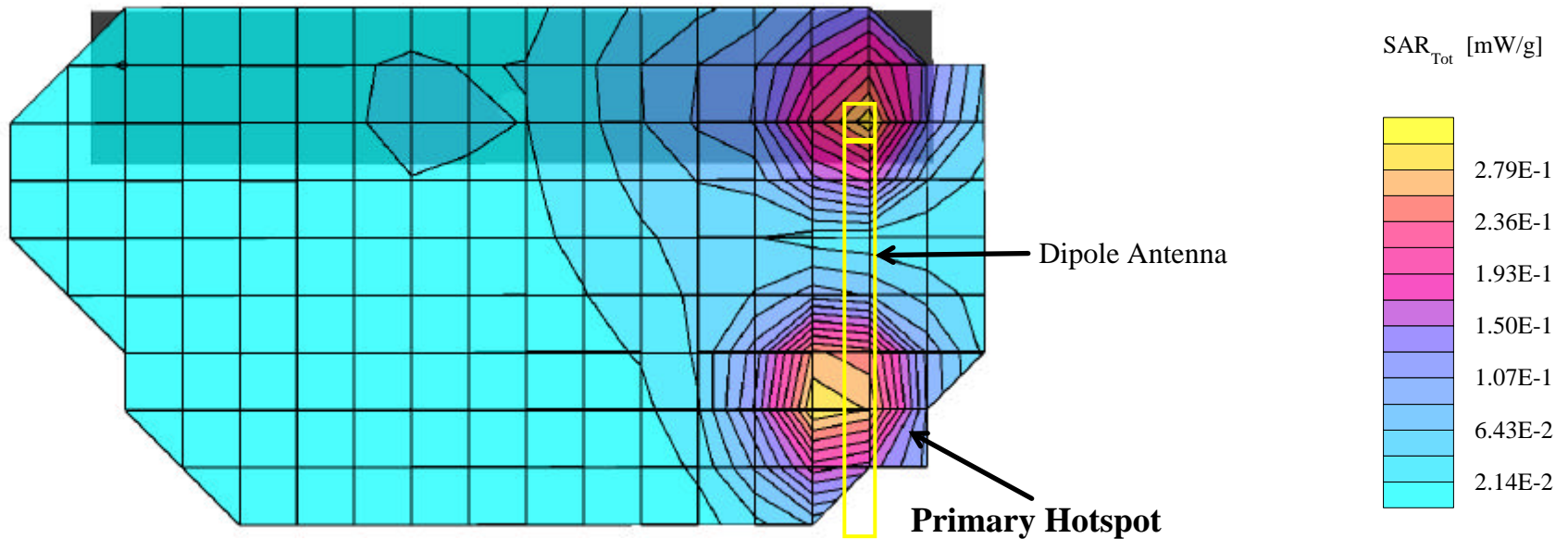
Channel 661 [1880.00 MHz]

Conducted Power: 27.9 dBm

Ambient Temp: 22.8°C; Fluid Temp: 23.1°C

Date Tested: March 24, 2003

Primary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260AC750-MPI

SAM Phantom; Flat Section; Position: (90°,0°)
 Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 2.0
 1900 MHz Muscle: $\sigma = 1.55$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³
 Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
 Cube 5x5x7
 SAR (1g): 0.221 mW/g, SAR (10g): 0.129 mW/g

Body SAR - Right Side of LCD Display (Closed) - Antenna Parallel to Planar Phantom (Extended Position)
 1.5 cm Separation Distance from Dipole Antenna to Planar Phantom
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 Channel 661 [1880.00 MHz]
 Conducted Power: 27.9 dBm
 Ambient Temp: 22.8°C; Fluid Temp: 23.1°C
 Date Tested: March 24, 2003

Secondary Hotspot Evaluation

