

APPENDIX A - SAR MEASUREMENT DATA

Itronix Corporation FCC ID: KBCIX260MPIA555BT

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

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 1.0

Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.07 dB

SAR (1g): 1.21 mW/g, SAR (10g): 0.633 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

IX260 Rugged Laptop PC

with Sierra Wireless AirCard 555 Dual Band CDMA Modem Card with External Dipole Antenna

Co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card with Internal Antenna

and Mitsumi WML-C11N Bluetooth Transmitter with Internal Antenna

PCS CDMA Mode

Single Transmit - PCS CDMA only

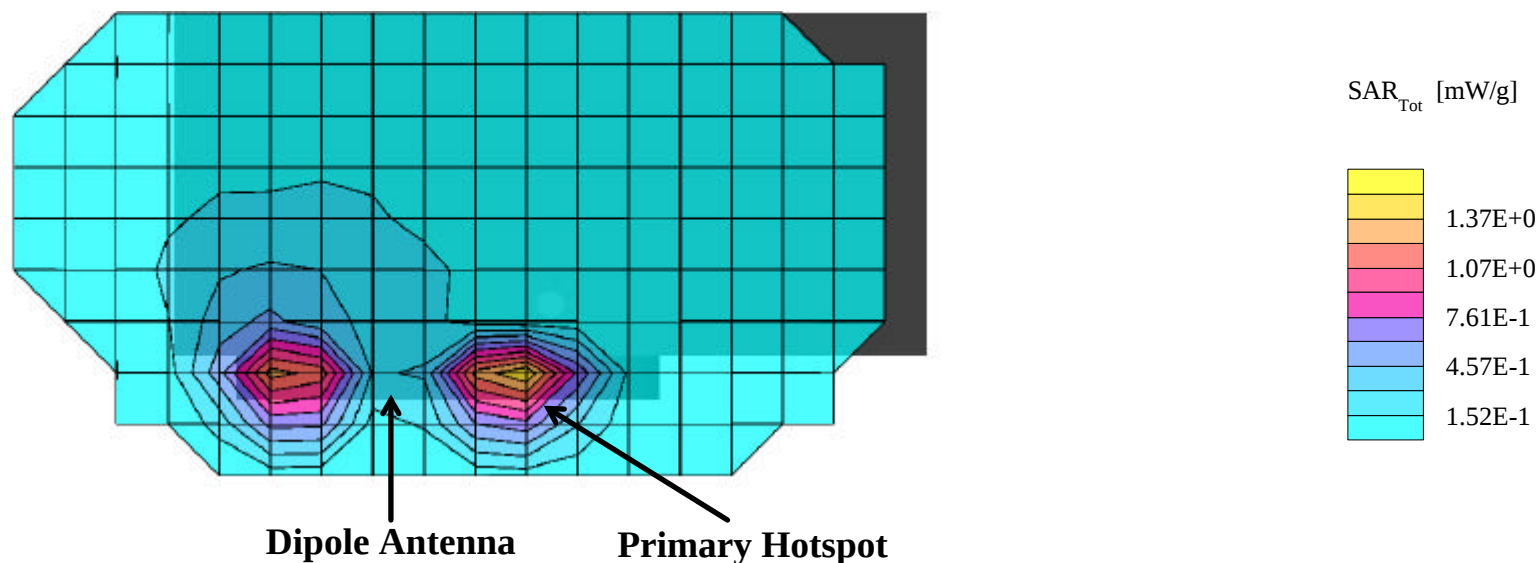
Channel 600 [1880.00 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 24.7°C; Fluid Temp: 22.4°C

Date Tested: August 27, 2003

Primary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260MPIA555BT

SAM Phantom

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 1.0

Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Z-Axis Extrapolation at Peak SAR Location

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

IX260 Rugged Laptop PC

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PCS CDMA Mode

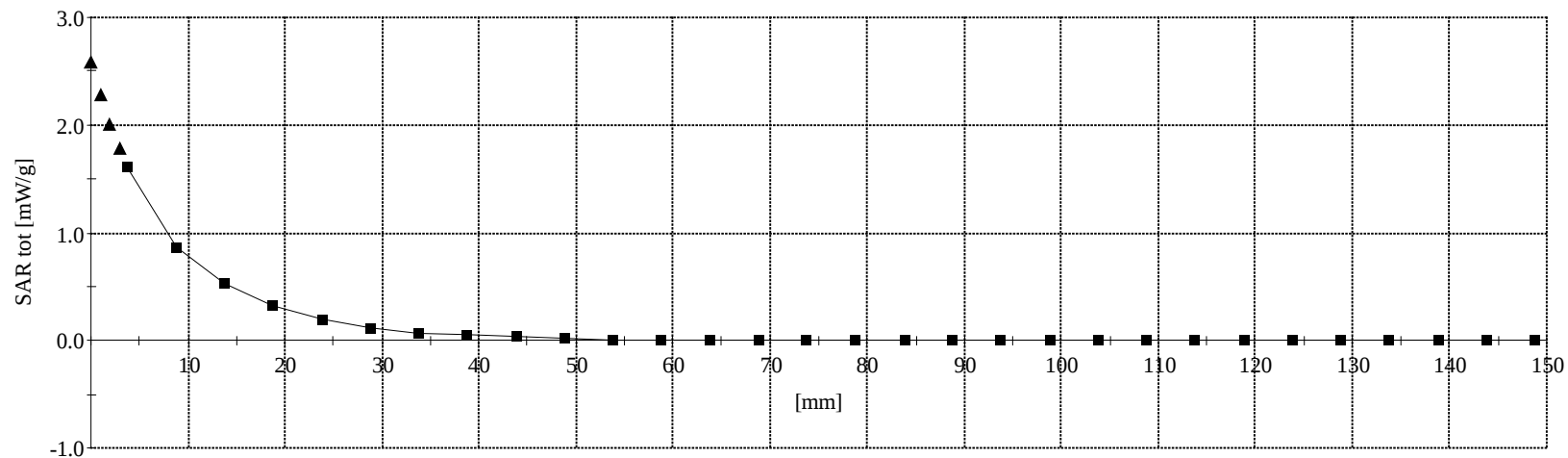
Single Transmit - PCS CDMA only

Channel 600 [1880.00 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 24.7°C; Fluid Temp: 22.4°C

Date Tested: August 27, 2003



Itronix Corporation FCC ID: KBCIX260MPIA555BT

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

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 1.0

Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.07 dB

SAR (1g): 1.07 mW/g, SAR (10g): 0.556 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

IX260 Rugged Laptop PC

with Sierra Wireless AirCard 555 Dual Band CDMA Modem Card with External Dipole Antenna

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PCS CDMA Mode

Single Transmit - PCS CDMA only

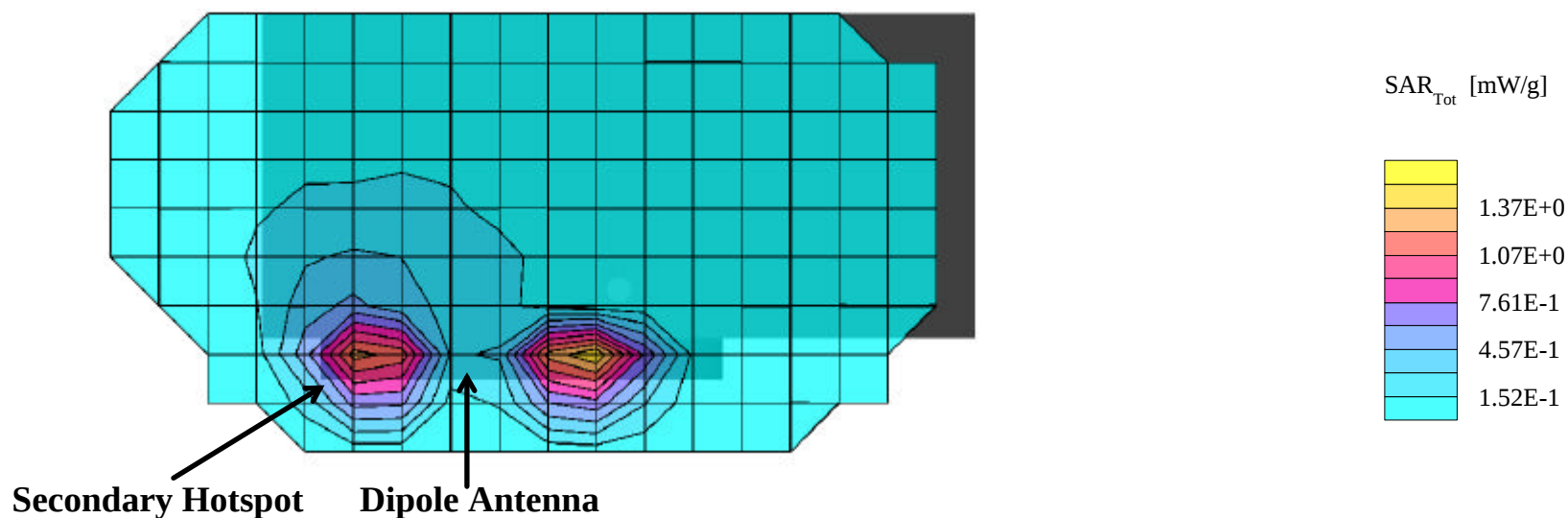
Channel 600 [1880.00 MHz]

Conducted Power: 23.0 dBm

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Date Tested: August 27, 2003

Secondary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260MPIA555BT

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

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 1.0

Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

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

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

IX260 Rugged Laptop PC

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PCS CDMA Mode

Single Transmit - PCS CDMA only

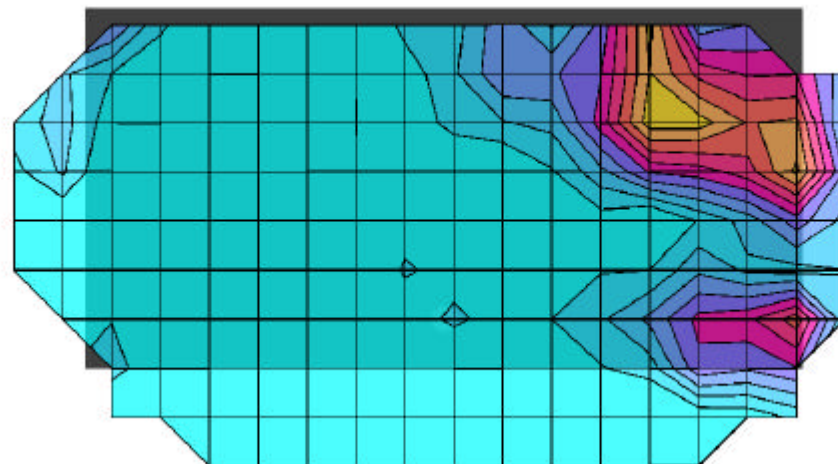
Channel 600 [1880.00 MHz]

Conducted Power: 23.0 dBm

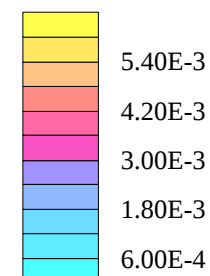
Ambient Temp: 24.7°C; Fluid Temp: 22.4°C

Date Tested: August 27, 2003

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



SAR_{Tot} [mW/g]



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Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.05 dB

SAR (1g): 0.770 mW/g, SAR (10g): 0.408 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

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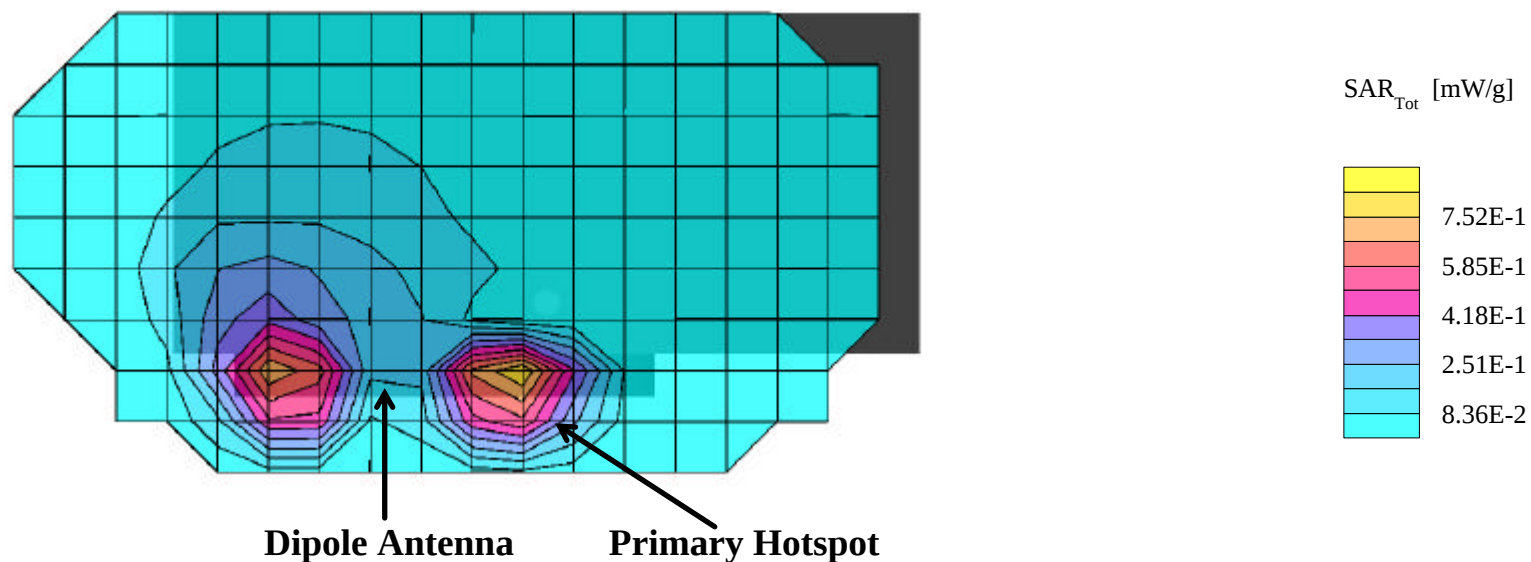
Channel 25 [1851.25 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 24.7°C; Fluid Temp: 22.4°C

Date Tested: August 27, 2003

Primary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260MPIA555BT

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

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 1.0

Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.05 dB

SAR (1g): 0.693 mW/g, SAR (10g): 0.364 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

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with Sierra Wireless AirCard 555 Dual Band CDMA Modem Card with External Dipole Antenna

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PCS CDMA Mode

Single Transmit - PCS CDMA only

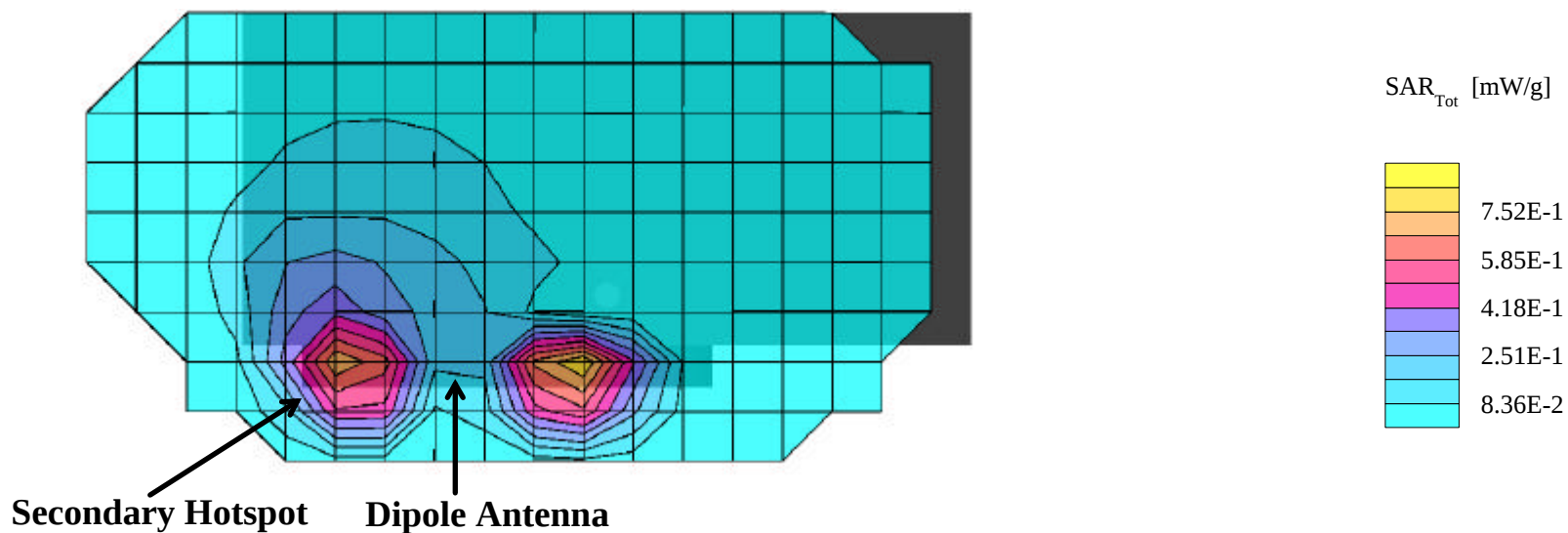
Channel 25 [1851.25 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 24.7°C; Fluid Temp: 22.4°C

Date Tested: August 27, 2003

Secondary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260MPIA555BT

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

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 1.0

Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.10 dB

SAR (1g): 0.920 mW/g, SAR (10g): 0.479 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

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PCS CDMA Mode

Single Transmit - PCS CDMA only

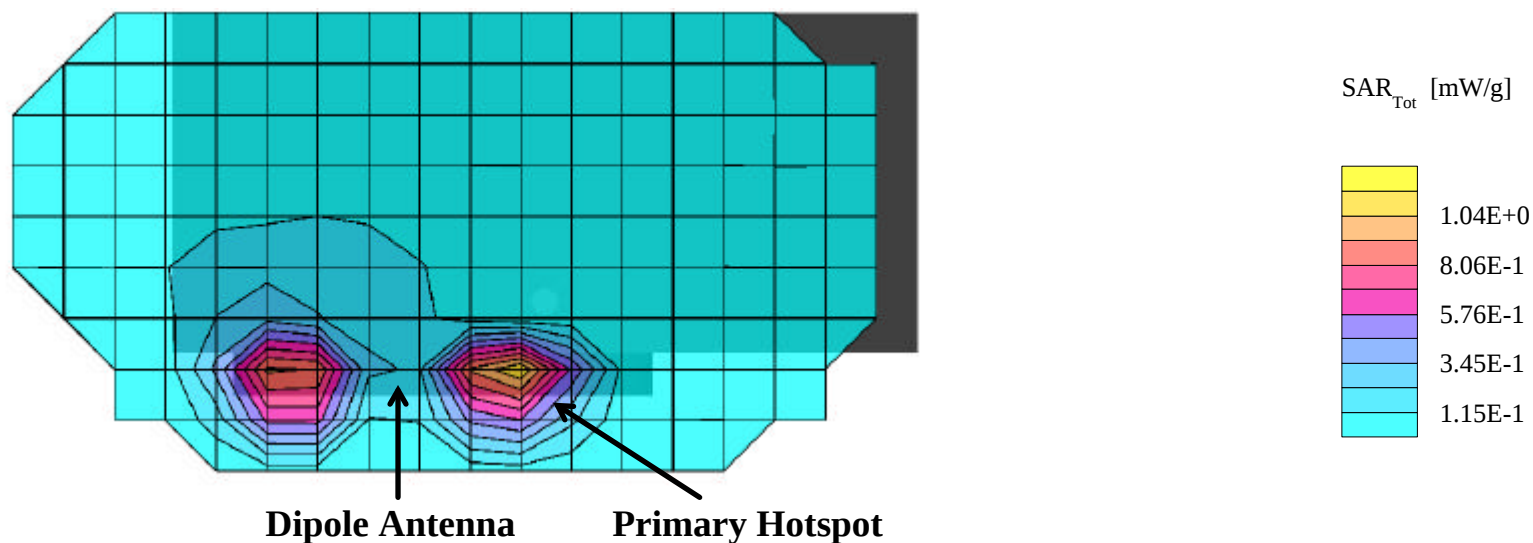
Channel 1175 [1908.75 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 24.7°C; Fluid Temp: 22.4°C

Date Tested: August 27, 2003

Primary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260MPIA555BT

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

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 1.0

Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.10 dB

SAR (1g): 0.869 mW/g, SAR (10g): 0.440 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

IX260 Rugged Laptop PC

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and Mitsumi WML-C11N Bluetooth Transmitter with Internal Antenna

PCS CDMA Mode

Single Transmit - PCS CDMA only

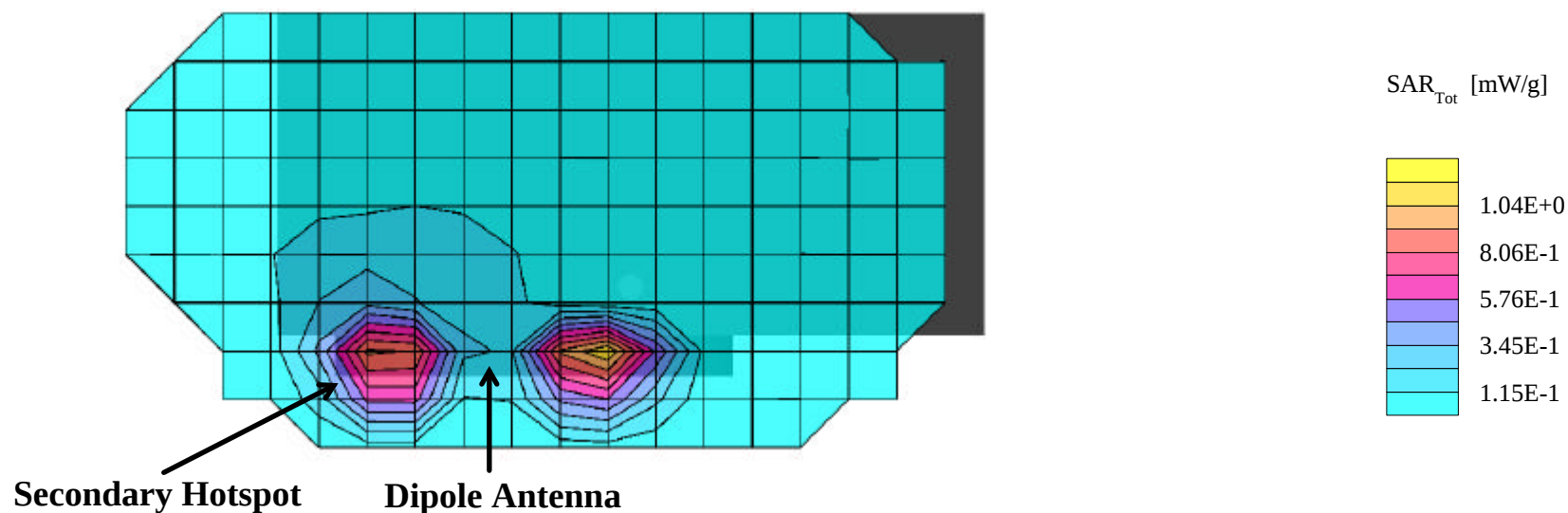
Channel 1175 [1908.75 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 24.7°C; Fluid Temp: 22.4°C

Date Tested: August 27, 2003

Secondary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260MPIA555BT

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

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 1.0

Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.15 dB

SAR (1g): 1.12 mW/g, SAR (10g): 0.592 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

IX260 Rugged Laptop PC

with Sierra Wireless AirCard 555 Dual Band CDMA Modem Card with External Dipole Antenna

Co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card with Internal Antenna

and Mitsumi WML-C11N Bluetooth Transmitter with Internal Antenna

PCS CDMA Mode

Simultaneous Transmit with co-located DSSS WLAN Transmitter

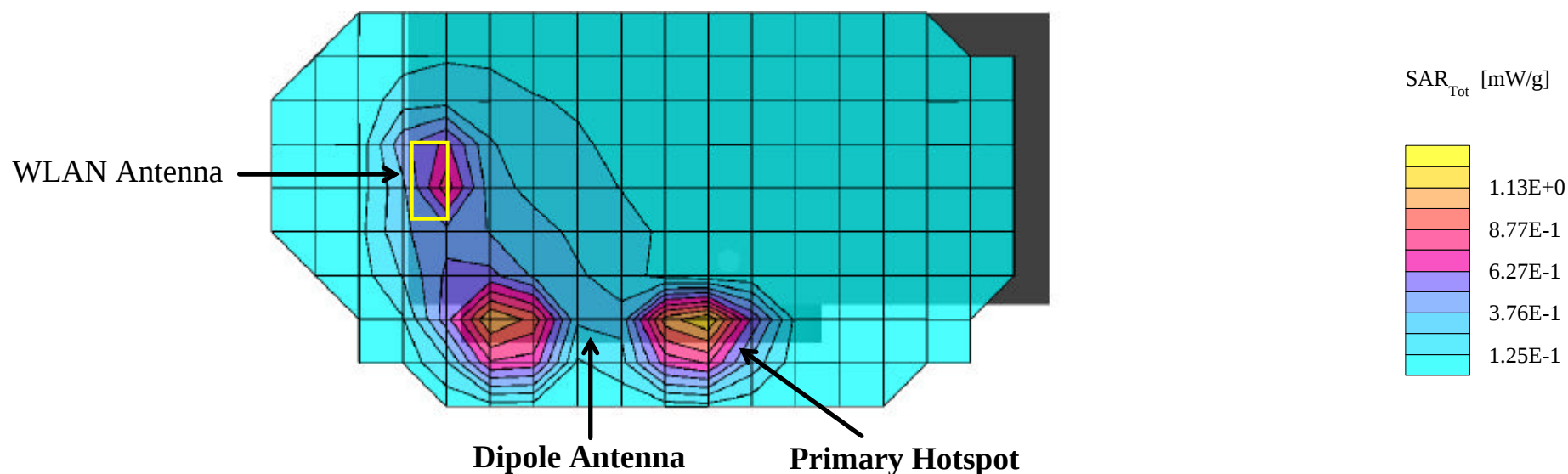
Channel 600 [1880.00 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 24.7°C; Fluid Temp: 22.4°C

Date Tested: August 27, 2003

Primary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260MPIA555BT

SAM Phantom; Flat Section; Position: (90°,0°)
 Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 1.0
 Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³
 Coarse: Dx = 15.0, Dy = 15.0, Dz = 10.0
 Cube 5x5x7; Powerdrift: -0.15 dB
 SAR (1g): 1.06 mW/g, SAR (10g): 0.554 mW/g

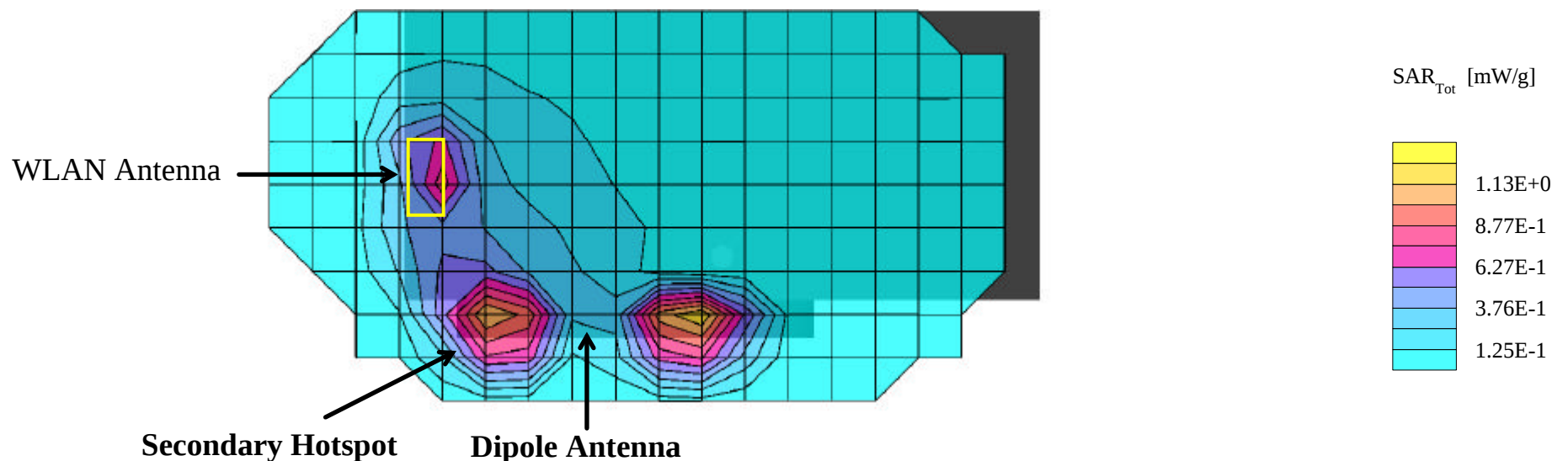
Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)
 0.0 cm Separation Distance from Back of LCD to Planar Phantom

IX260 Rugged Laptop PC
 with Sierra Wireless AirCard 555 Dual Band CDMA Modem Card with External Dipole Antenna
 Co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card with Internal Antenna
 and Mitsumi WML-C11N Bluetooth Transmitter with Internal Antenna

PCS CDMA Mode
Simultaneous Transmit with co-located DSSS WLAN Transmitter

Channel 600 [1880.00 MHz]
 Conducted Power: 23.0 dBm
 Ambient Temp: 24.7°C; Fluid Temp: 22.4°C
 Date Tested: August 27, 2003

Secondary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260MPIA555BT

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

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 1.0

Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.17 dB

SAR (1g): 1.13 mW/g, SAR (10g): 0.593 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

IX260 Rugged Laptop PC

with Sierra Wireless AirCard 555 Dual Band CDMA Modem Card with External Dipole Antenna

Co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card with Internal Antenna

and Mitsumi WML-C11N Bluetooth Transmitter with Internal Antenna

PCS CDMA Mode

Simultaneous Transmit with co-located DSSS WLAN and Bluetooth Transmitters

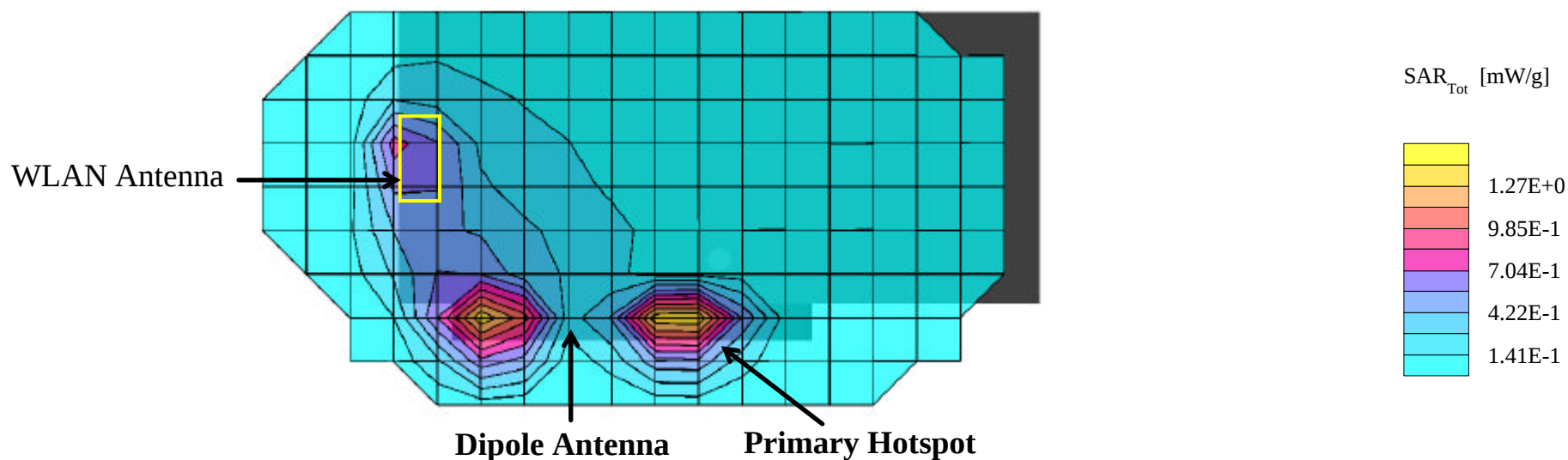
Channel 600 [1880.00 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 24.7°C; Fluid Temp: 22.4°C

Date Tested: August 27, 2003

Primary Hotspot Evaluation



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

Probe: ET3DV6 - SN1387; ConvF(4.90,4.90,4.90); Crest factor: 1.0

Muscle 1900 MHz: $\sigma = 1.52$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.17 dB

SAR (1g): 1.08 mW/g, SAR (10g): 0.568 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

IX260 Rugged Laptop PC

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PCS CDMA Mode

Simultaneous Transmit with co-located DSSS WLAN and Bluetooth Transmitters

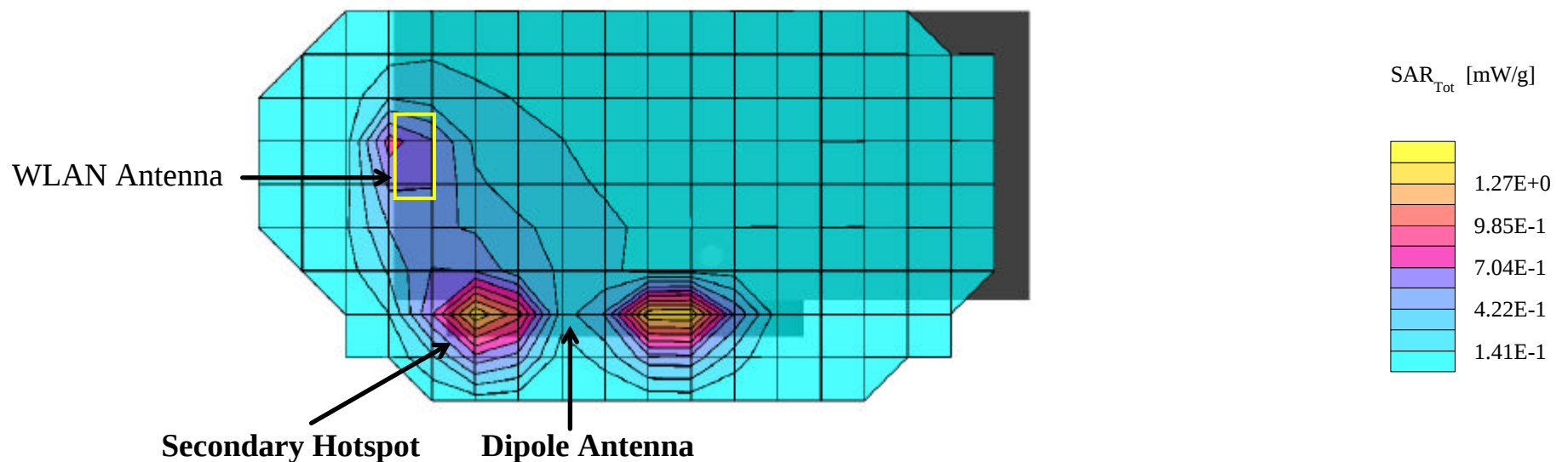
Channel 600 [1880.00 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 24.7°C; Fluid Temp: 22.4°C

Date Tested: August 27, 2003

Secondary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260MPIA555BT

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

Probe: ET3DV6 - SN1387; ConvF(6.40,6.40,6.40); Crest factor: 1.0

Muscle 835 MHz: $\sigma = 1.00$ mho/m $\epsilon_r = 55.3$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.20 dB

SAR (1g): 0.489 mW/g, SAR (10g): 0.297 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

IX260 Rugged Laptop PC

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Co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card with Internal Antenna

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Cellular CDMA Mode

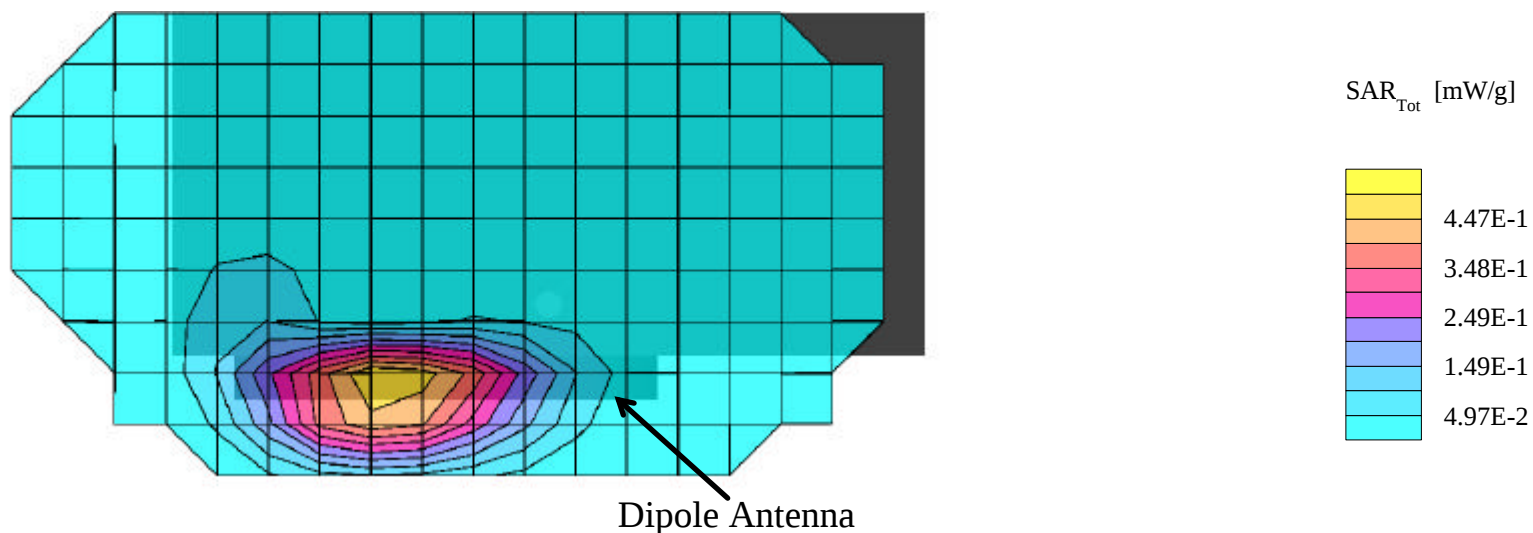
Single Transmit - Cellular CDMA only

Channel 363 [835.89 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C

Date Tested: August 28, 2003



Itronix Corporation FCC ID: KBCIX260MPIA555BT

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

Probe: ET3DV6 - SN1387; ConvF(6.40,6.40,6.40); Crest factor: 1.0

Muscle 835 MHz: $\sigma = 1.00$ mho/m $\epsilon_r = 55.3$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.13 dB

SAR (1g): 0.496 mW/g, SAR (10g): 0.300 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

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Cellular CDMA Mode

Simultaneous Transmit with co-located DSSS WLAN Transmitter

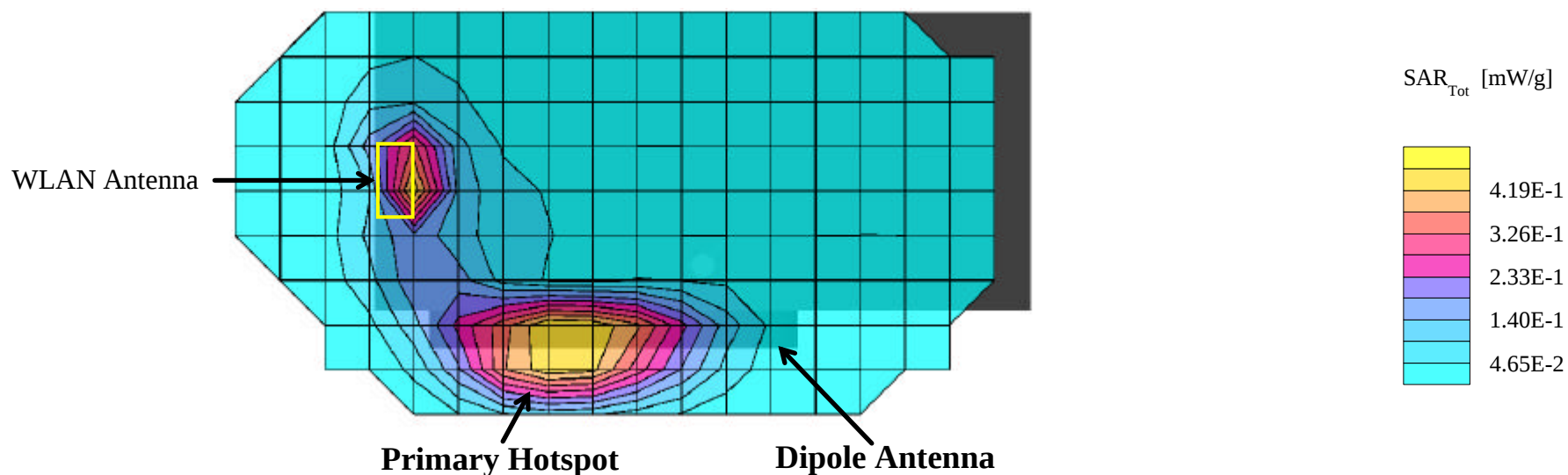
Channel 363 [835.89 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C

Date Tested: August 28, 2003

Primary Hotspot Evaluation



Itronix Corporation FCC ID: KBCIX260MPIA555BT

SAM Phantom

Probe: ET3DV6 - SN1387; ConvF(6.40,6.40,6.40); Crest factor: 1.0

Muscle 835 MHz: $\sigma = 1.00$ mho/m $\epsilon_r = 55.3$ $\rho = 1.00$ g/cm³

Z-Axis Extrapolation at Peak SAR Location

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

IX260 Rugged Laptop PC

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Cellular CDMA Mode

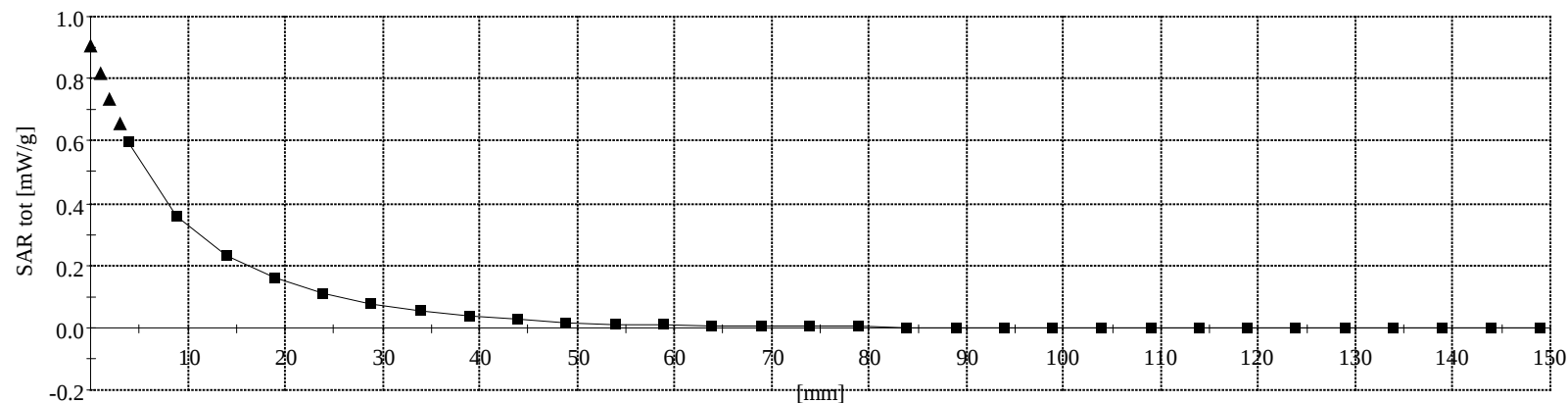
Simultaneous Transmit with co-located DSSS WLAN Transmitter

Channel 363 [835.89 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C

Date Tested: August 28, 2003



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

Probe: ET3DV6 - SN1387; ConvF(6.40,6.40,6.40); Crest factor: 1.0

Muscle 835 MHz: $\sigma = 1.00$ mho/m $\epsilon_r = 55.3$ $\rho = 1.00$ g/cm³

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

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

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Cellular CDMA Mode

Simultaneous Transmit with co-located DSSS WLAN Transmitter

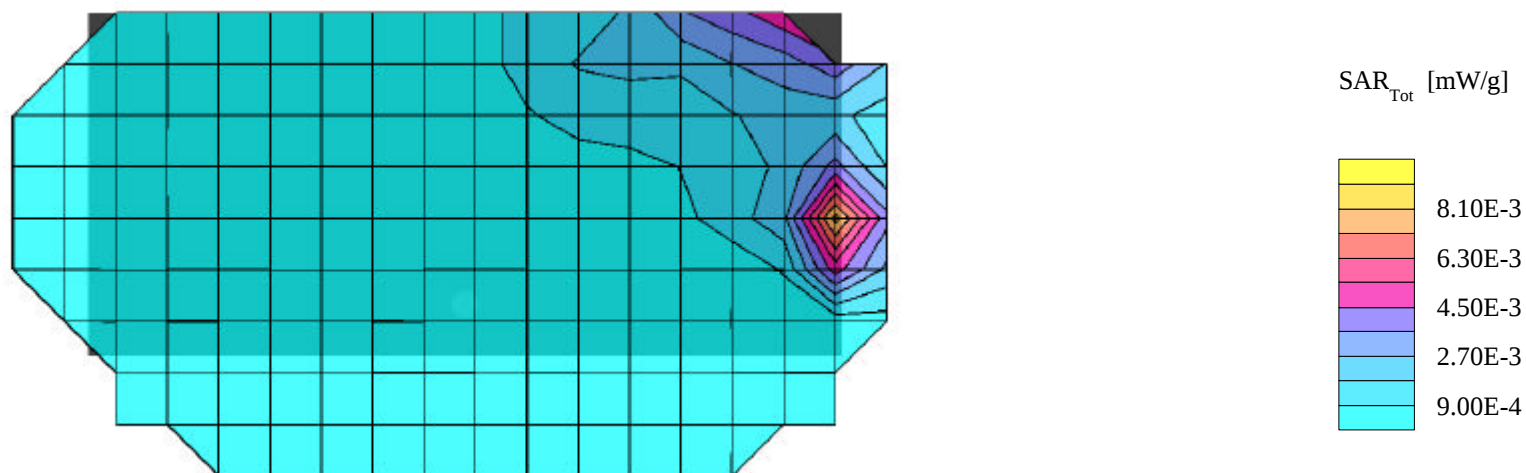
Channel 363 [835.89 MHz]

Conducted Power: 23.0 dBm

Ambient Temp: 23.9°C; Fluid Temp: 23.2°C

Date Tested: August 28, 2003

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



Itronix Corporation FCC ID: KBCIX260MPIA555BT

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

Probe: ET3DV6 - SN1387; ConvF(6.40,6.40,6.40); Crest factor: 1.0

Muscle 835 MHz: $\sigma = 1.00$ mho/m $\epsilon_r = 55.3$ $\rho = 1.00$ g/cm³

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

Cube 5x5x7; Powerdrift: -0.08 dB

SAR (1g): 0.482 mW/g, SAR (10g): 0.291 mW/g

Back of LCD (Display Closed) - CDMA Dipole Antenna Parallel to Planar Phantom (Stowed Position)

0.0 cm Separation Distance from Back of LCD to Planar Phantom

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Simultaneous Transmit with co-located DSSS WLAN and Bluetooth Transmitters

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Conducted Power: 23.0 dBm

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