

Date Tested: 05/26/2005

### Head SAR - 802.11b WLAN SDIO - Right Ear - Tilt Position (15°) - Channel 1 - Volume Scan

DUT: Palm Inc. Model: Treo XXX; Type: Portable Dual-Band CDMA 2000 Phone with 802.11b & Bluetooth; Serial: PTVC03Q5H055

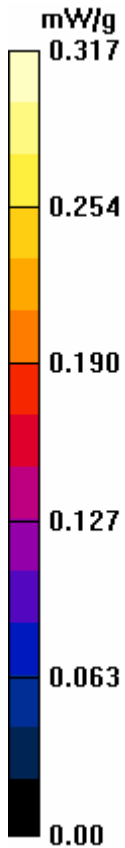
Ambient Temp: 24.8 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.9 kPa; Humidity: 31%

Communication System: DSSS WLAN  
RF Output Power: 15.2 dBm (Conducted)  
Frequency: 2412 MHz; Channel 1; Duty Cycle: 1:1  
Power: Li-ion Battery Pack in Treo Phone (P/N: 157-10014-00)  
Medium: HSL2450 ( $\sigma = 1.85 \text{ mho/m}$ ,  $\epsilon_r = 37.5$ ;  $\rho = 1000 \text{ kg/m}^3$ )

- Probe: ET3DV6 - SN1387; ConvF(4.56, 4.56, 4.56); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

### Head SAR - 802.11b SDIO in Treo XXX Phone - Right Ear - Tilt Position (15°) - Low Channel/Volume Scan (9x13x7):

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 9.70 V/m; Power Drift = -0.127 dB  
Peak SAR (extrapolated) = 0.639 W/kg  
**SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.151 mW/g**  
Total Absorbed Power = 0.00614085 W



Date Tested: 08/23/2005 (Cellular CDMA)

Date Tested: 05/26/2005 (802.11b SDIO)

## Cellular CDMA Head SAR - 802.11b SDIO Head SAR - Multi-Band Grid Summation

### Head SAR - Right Ear - Tilt Position (15°)

**DUT: Palm Inc. Model: Treo XXX; Type: Portable Dual-Band CDMA 2000 Phone with 802.11b & Bluetooth; Serial: PWVC0835H0AX**

**Cellular CDMA:** Ambient Temp: 22.9 °C; Fluid Temp: 22.7 °C; Barometric Pressure: 101.8 kPa; Humidity: 31%

**802.11b WLAN:** Ambient Temp: 24.8 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.9 kPa; Humidity: 31%

Li-ion Battery Pack (P/N: 157-10014-00)

Communication System: Cellular CDMA

Frequency: 848.31 MHz; Channel 777; Duty Cycle: 1:1

RF Output Power: 24.0 dBm (Conducted) Cellular CDMA

Medium: HSL835 ( $\sigma = 0.87$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

Communication System: DSSS WLAN

Frequency: 2412 MHz; Channel 1; Duty Cycle: 1:1

RF Output Power: 15.2 dBm (Conducted) 802.11b WLAN

Medium: HSL2450 ( $\sigma = 1.85$  mho/m,  $\epsilon_r = 37.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF (6.47, 6.47, 6.47) & (4.56, 4.56, 4.56); Calibrated: 18/03/2005

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

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

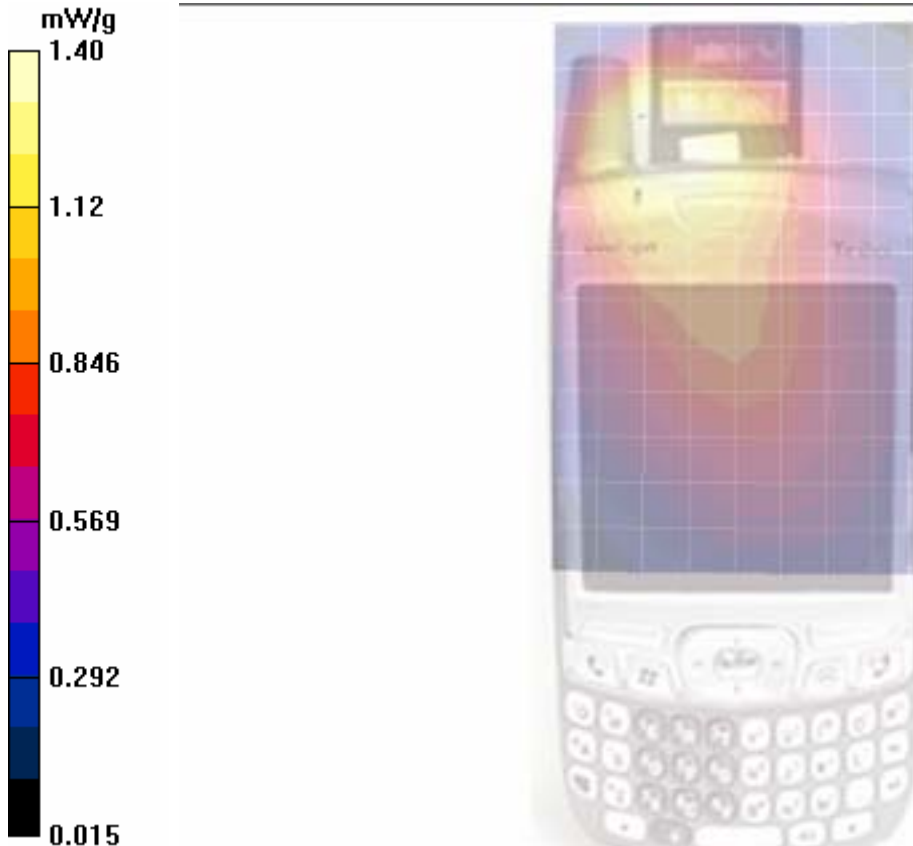
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004

- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033

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

### Multi-Band Grid Summation:

**SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.813 mW/g**



Date Tested: 08/23/2005 (PCS CDMA)  
Date Tested: 05/26/2005 (802.11b SDIO)

## PCS CDMA Head SAR - 802.11b SDIO Head SAR - Multi-Band Grid Summation

### Head SAR - Left Ear - Tilt Position (15°)

**DUT: Palm Inc. Model: Treo XXX; Type: Portable Dual-Band CDMA 2000 Phone with 802.11b & Bluetooth; Serial: PWVC0835H0AX**

**PCS CDMA:** Ambient Temp: 25.3 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 101.5 kPa; Humidity: 30%

**802.11b WLAN:** Ambient Temp: 24.8 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.9 kPa; Humidity: 31%

Li-ion Battery Pack (P/N: 157-10014-00)

Communication System: PCS CDMA

Frequency: 1851.25 MHz Channel 25; Duty Cycle: 1:1

RF Output Power: 23.8 dBm (Conducted) PCS CDMA

Medium: HSL1880 ( $\sigma = 1.40$  mho/m;  $\epsilon_r = 38.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

Communication System: DSSS WLAN

Frequency: 2412; Channel 1; Duty Cycle: 1:1

RF Output Power: 15.2 dBm (Conducted) 802.11b WLAN

Medium: HSL2450 ( $\sigma = 1.85$  mho/m,  $\epsilon_r = 37.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF (5.18, 5.18, 5.18) & (4.56, 4.56, 4.56); Calibrated: 18/03/2005

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

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

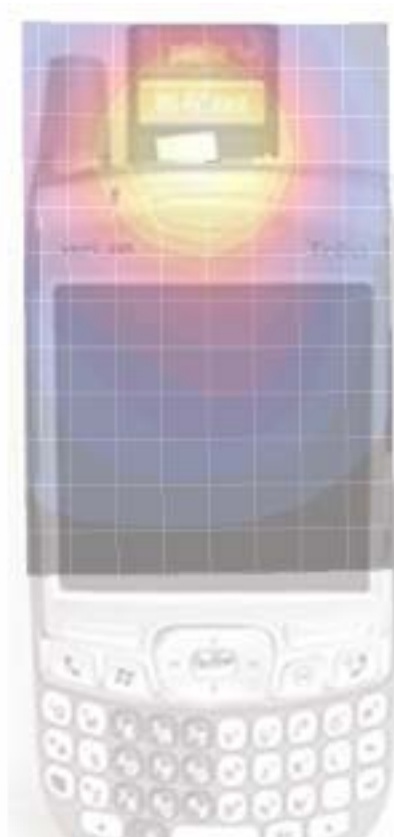
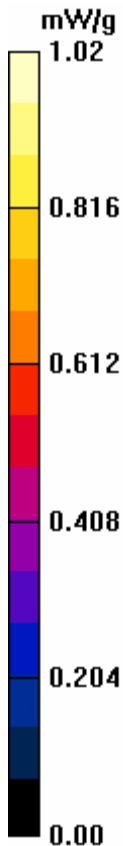
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004

- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033

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

### Multi-Band Grid Summation:

**SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.597 mW/g**



Date Tested: 08/26/2005

**Body SAR - 802.11b WLAN SDIO - 1.5 cm Air-Gap Spacing - Back Side of DUT - Channel 6 - Area/Zoom Scan**

**DUT: Palm Inc. Model: Treo XXX; Type: Portable Dual-Band CDMA 2000 Phone with 802.11b & Bluetooth; Serial: PWVC0835H0AX**

**Body-Worn Accessories: None (1.5 cm Air-Gap Spacing); Audio Accessory: Generic Ear-Microphone**

Ambient Temp: 25.3 °C; Fluid Temp: 23.9 °C; Barometric Pressure: 101.5 kPa; Humidity: 31%

Communication System: DSSS WLAN  
RF Output Power: 14.7 dBm (Conducted)  
Frequency: 2437 MHz; Channel 6; Duty Cycle: 1:1  
Power: Li-ion Battery Pack in Treo Phone (P/N: 157-10014-00)  
Medium: M2450 ( $\sigma = 1.92$  mho/m;  $\epsilon_r = 50.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(4.3, 4.3, 4.3); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Body-Worn SAR - 802.11b SDIO in Treo XXX Phone - 1.5 cm Air-Gap Separation Distance from Back of DUT Mid Channel/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

**Body-Worn SAR - 802.11b SDIO in Treo XXX Phone - 1.5 cm Air-Gap Separation Distance from Back of DUT Mid Channel/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.59 V/m; Power Drift = 0.255 dB  
Peak SAR (extrapolated) = 0.137 W/kg  
**SAR(1 g) = 0.0685 mW/g; SAR(10 g) = 0.038 mW/g**



Date Tested: 08/30/2005 (Cellular CDMA)  
Date Tested: 08/30/2005 (802.11b SDIO & Bluetooth)

## Cellular CDMA Body SAR - 802.11b SDIO & Bluetooth Body SAR - Multi-Band Grid Summation

### Body-Worn SAR - 1.5 cm Air-Gap Spacing - Back Side of Treo XXX Phone

DUT: Palm Inc. Model: Treo XXX; Type: Portable Dual-Band CDMA 2000 Phone with 802.11b & Bluetooth; Serial: PWVC0835H0AX

Body-Worn Accessories: None (1.5 cm Air-Gap Spacing); Audio Accessory: Generic Ear-Microphone

Cellular CDMA: Ambient Temp: 24.2 °C; Fluid Temp: 23.3 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%  
802.11b WLAN: Ambient Temp: 25.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 30%

Li-ion Battery Pack in Treo Phone (P/N: 157-10014-00)

Communication System: Cellular CDMA  
Frequency: 836.52 MHz; Channel 384; Duty Cycle: 1:1  
RF Output Power: 23.8 dBm (Conducted)  
Medium: M835 ( $\sigma = 0.97$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

Communication System: DSSS WLAN  
Frequency: 2437 MHz; Channel 6; Duty Cycle: 1:1  
RF Output Power: 14.7 dBm (Conducted)  
Medium: M2450 ( $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

Communication System: FHSS Bluetooth  
RF Output Power: 0 dBm (Peak Conducted)

- Probe: ET3DV6 - SN1387; ConvF(6.1, 6.1, 6.1) & ConvF(4.3, 4.3, 4.3); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Multi-Band Grid Summation:  
SAR(1 g) = 0.586 mW/g; SAR(10 g) = 0.425 mW/g



Date Tested: 08/30/2005 (PCS CDMA)  
Date Tested: 08/30/2005 (802.11b SDIO)

## PCS CDMA Body SAR - 802.11b SDIO Body SAR - Multi-Band Grid Summation

### Body-Worn SAR - 1.5 cm Air-Gap Spacing - Back Side of Treo XXX Phone

**DUT:** Palm Inc. Model: Treo XXX; Type: Portable Dual-Band CDMA 2000 Phone with 802.11b & Bluetooth; Serial: PWVC0835H0AX

**Body-Worn Accessories:** None (1.5 cm Air-Gap Spacing); **Audio Accessory:** Generic Ear-Microphone

**PCS CDMA:** Ambient Temp: 23.4 °C; Fluid Temp: 23.5 °C; Barometric Pressure: 102.2 kPa; Humidity: 34%  
**802.11b WLAN:** Ambient Temp: 25.0 °C; Fluid Temp: 22.8 °C; Barometric Pressure: 102.2 kPa; Humidity: 30%

Li-ion Battery Pack in Treo Phone (P/N: 157-10014-00)

Communication System: PCS CDMA  
Frequency: 1880.00 MHz; Channel 600; Duty Cycle: 1:1  
RF Output Power: 23.8 dBm (Conducted)  
Medium: M1880 ( $\sigma = 1.58$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

Communication System: DSSS WLAN  
Frequency: 2437 MHz; Channel 6; Duty Cycle: 1:1  
RF Output Power: 14.7 dBm (Conducted)  
Medium: M2450 ( $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>)

- Probe: ET3DV6 - SN1387; ConvF(4.75, 4.75, 4.75) & ConvF(4.3, 4.3, 4.3); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn370; Calibrated: 25/01/2005
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

#### Multi-Band Grid Summation:

**SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.328 mW/g**

