ENGINEERING TEST REPORT



WORKABOUT PRO Handheld Computer Co-Location RFID with 802.11b/g Wireless LAN and Bluetooth Model No.: 7527S

Tested For

Psion Teklogix Inc. 2100 Meadowvale Blvd. Mississauga, ON Canada, L5N 7J9

In Accordance With

SAR (Specific Absorption Rate) Requirements using guidelines established in IEEE Standard C95.1, FCC OET Bulletin 65 (Supplement C), Industry Canada RSS-102(Issue 2), EN 50360 (Council Recommendation 1999/519/EC) and ACA 2003 / ARPANSA Standard

UltraTech's File No.: TEK-603-SAR

This Test report is Issued under the Authority of Tri M. Luu, Professional Engineer, Vice President of Engineering UltraTech Group of Labs



Date: August 8, 2007

Report Prepared by: JaeWook Choi

Issued Date: August 8, 2007

The results in this Test Report apply only to the sample(s) tested, which has been randomly selected.

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WORKABOUT PRO G2 Handheld Computer M/N: 7527S

EXHIBIT 1. PERFORMANCE ASSESSMENT

1.1. CLIENT AND MANUFACTURER INFORMATION

| APPLICANT: | |
|-----------------|--|
| Name: | Psion Teklogix Inc. |
| Address: | 2100 Meadowvale Blvd. |
| | Mississauga, ON |
| | Canada, L5N 7J9 |
| Contact Person: | Mr. Sada Dharwarkar |
| | Phone #: +1.905.812.6200 ext. 3358 |
| | Fax #: +1.905.812.6301 |
| | Email Address: Sada.dharwarkar@psionteklogix.com |

| MANUFACTURER: | |
|-----------------|--|
| Name: | Psion Teklogix Inc. |
| Address: | 2100 Meadowvale Blvd. |
| | Mississauga, ON |
| | Canada, L5N 7J9 |
| Contact Person: | Mr. Sada Dharwarkar |
| | Phone #: +1.905.812.6200 ext. 3358 |
| | Fax #: +1.905.812.6301 |
| | Email Address: Sada.dharwarkar@psionteklogix.com |

1.2. DEVICE UNDER TEST (D.U.T.) DESCRIPTION

The following is the information provided by the applicant.

| Trade Name | Psion Teklogix WORKABOUT PRO | | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|--|
| Product Description | Handheld Computer | | | | | | | |
| Type/Model Number | 7527S contains the follwing three radios: #1. WJRFID RFID module #2. RA2041 802.11b/g Wireless Lan module #3. BTL040 Bluetooth module | | | | | | | |
| Power Supply | Lithium Ion Rechargeable 3000 mAh Battery (3.7V), Psion Teklogix Model No.: WA3006 | | | | | | | |
| Primary User Functions of D.U.T. | Provide data communication link through air | | | | | | | |

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FCC ID: GM37527SBTRA2041M

| Radio #1- RFID | |
|-----------------------------|-----------------------------------|
| Location | PCMCIA SLOT |
| Manufacturer: | WJ |
| Product | WJRFID |
| Model number | MPR6000 |
| Psion teklogix model number | N/A |
| Serial number | |
| Transmitter power | 0.5 Watt |
| Frequency range | 902-928 MHz |
| Type of modulation | Frequency Hopping Spread Spectrum |
| Data rates | |
| Channels | 79 |
| Internal/extrenal antenna | External (Inside the Host) |

| Radio #2 – 802.11b/g Wireless LAN | | | | | | | |
|-----------------------------------|--|--|--|--|--|--|--|
| Location | Compact Flash Slot | | | | | | |
| Manufacturer: | SUMMIT | | | | | | |
| Product | 802.11b/g Compact Flash Radio Module | | | | | | |
| Model number | SDC-CF10G | | | | | | |
| Teklogix model number | RA2041 | | | | | | |
| Serial number | N/A | | | | | | |
| Fcc id | TWG-SDCCF10G | | | | | | |
| Power | 32 mW | | | | | | |
| Frequency range | 2412 to 2472 MHz | | | | | | |
| Data rates | 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 MBps | | | | | | |
| Channels | 13 (EU) | | | | | | |
| L.o. frequencies | 2.32 – 2.62 GHz | | | | | | |
| Ref. Osc. Frequencies | 44 MHz, 14.67 MHz | | | | | | |
| Internal/extrenal antenna | EXTERNAL (Inside the Host) | | | | | | |
| Rf cable type | 50 Ohm coaxial, 1.09 mm Dia | | | | | | |
| Antenna type + gain | PCB, 0 dBi | | | | | | |

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WORKABOUT PRO G2 Handheld Computer M/N: 7527S

FCC ID: GM37527SBTRA2041M

| Radio #3 – Bluetooth | Radio #3 – Bluetooth | | | | | | | |
|-----------------------------|---|--|--|--|--|--|--|--|
| Location | Main Logic Board (Integrated Bluetooth) | | | | | | | |
| Manufacturer: | Askey Computer Corporation | | | | | | | |
| Product | 2.4 GHz FHSS Bluetooth | | | | | | | |
| Model number | BTL040 | | | | | | | |
| Psion teklogix model number | N/A | | | | | | | |
| Serial number | | | | | | | | |
| Power | <5mW | | | | | | | |
| Frequency range | 2402-2480 MHz | | | | | | | |
| Data rates | As per the BT standard | | | | | | | |
| Channels | 79 | | | | | | | |
| Internal/extrenal antenna | internal | | | | | | | |

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WORKABOUT PRO G2 Handheld Computer M/N: 7527S

EXHIBIT 2. COLOCATION RFID WITH 802.11B/G WIRELESS LAN AND BLUETOOTH

2.1. APPLICABILITY & SUMMARY OF SAR RESULTS

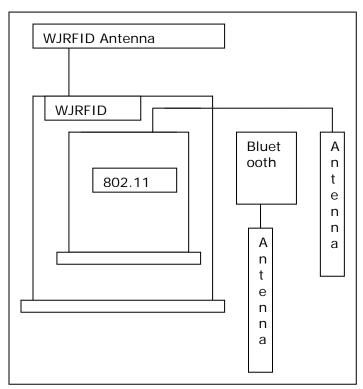
Co-location of RFID with 802.11b/g Wireless LAN(M/N: RA2041) and Bluetooth(M/N: BTL040) in the 7527S had been addressed in this test report.

Since RFID operates at the different frequency range from Wireless LAN and Bluetooth, SAR evaluation were performed independently for each frequency using appropriate probe calibration and tissue dielectric parameter.

SAR evaluation detail of individual radios had been described in the enclosed test reports of

- 'GM37527SBTMPR6XXX-SAR.pdf' for RFID,
- 'GM37527SBTMPR6XXX-SAR_CoLoc.pdf' for Bluetooth, and
- 'GM37527RA2041-SAR_#.pdf' for Wireless LAN respectively.

Three radio modules are relatively deployed and located in the host computer (M/N: 7527S) as depicted in the following diagram.



Summary of SAR measurement results excerpted from the corresponding test reports for RFID, Bluetooth and Wireless LAN are listed in the following sections.

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WORKABOUT PRO G2 Handheld Computer M/N: 7527S

2.1.1. Summary of Peak Spatial-Average SAR in the Body Configuration

2.1.1.1. Summary of Peak Spatial-Average SAR in the Body Configuration for RFID

| # | Configuration | Antenna Position | Frequency [MHz] | Channel | SAR _{local} Before [W/Kg] | SAR _{local} After [W/Kg] | $\begin{array}{c} MAX \\ SAR_{1g} \\ {}_{[W/Kg]} \end{array}$ |
|----|--|---------------------|-----------------|---------|--|---|---|
| * | General Population/Uncontrolled Exposure (| Category Lim | it | | | | 1.6 |
| 01 | Top of DUT perpendicular to the phantom with spacing of 15 mm | Integrated | 902.75 | Low | | | - |
| 02 | 1 | Integrated | 915.25 | Middle | 0.67 | 0.63 | 0.53 |
| 03 | | Integrated | 927.25 | High | | | - |
| 04 | Front side of DUT in parallel to the phantom with spacing of 15 mm | Integrated | 902.75 | Low | | | - |
| 05 | with spacing of 20 min | Integrated | 915.25 | Middle | 0.29 | 0.27 | 0.38 |
| 06 | | Integrated | 927.25 | High | | | - |
| 07 | Back side of DUT in parallel to the phantom and belt-clip in contact | Integrated | 902.75 | Low | | | - |
| 08 | | Integrated | 915.25 | Middle | 0.00 | 0.00 | < 0.01 |
| 09 | | Integrated | 927.25 | High | | | - |
| 10 | Left side of DUT in parallel to the phantom with spacing of 15 mm | Integrated | 902.75 | Low | | | - |
| 11 | The second second second | Integrated | 915.25 | Middle | 0.01 | 0.01 | 0.04 |
| 12 | | Integrated | 927.25 | High | | | - |
| 13 | Right side of DUT in parallel to the phantom with spacing of 15 mm | Integrated | 902.75 | Low | | | - |
| 14 | | Integrated | 915.25 | Middle | 0.01 | 0.00 | 0.04 |
| 15 | | Integrated | 927.25 | High | | | - |

2.1.1.2. Summary of Peak Spatial-Average SAR in the Body Configuration for Bluetooth

| # | Configuration | Antenna Position | Frequency [MHz] | Channel | SAR _{local} Before [W/Kg] | SAR _{local} After [W/Kg] | $\begin{array}{c} \text{MAX} \\ \text{SAR}_{1g} \\ \text{[W/Kg]} \end{array}$ | | | |
|----|---|---------------------|-----------------|---------|--|---|---|--|--|--|
| * | * General Population/Uncontrolled Exposure Category Limit | | | | | | | | | |
| 01 | Top of DUT perpendicular to the phantom with spacing of 15 mm | Integrated | 2402 | 00 | | | - | | | |
| 02 | | Integrated | 2441 | 39 | 0.00 | 0.00 | Less than 0.01 | | | |
| 03 | | Integrated | 2480 | 78 | | | - | | | |

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WORKABOUT PRO G2 Handheld Computer M/N: 7527S

2.1.1.3. Summary of Peak Spatial-Average SAR in the Body Configuration for 802.11b/g Wireless LAN

2.1.1.3.1. Keypad Up With 1.5 cm Gap

| Model | Mode | Accessory | Ch an. | Freq(MHz) | Modulation Type | Conducted Power (dBm) | Power Drift (dB) | Measured 1g SAR (W/Kg) | Limit (W/Kg) | Results |
|-------|--------------------------|-------------|-----------|------------|--------------------|-----------------------------|------------------|------------------------------|-----------------|---------|
| | | | 1 | 2412(Low) | CCK | 20.65 | 0.177 | 0.011 | 1.6 | Pass |
| | 802.11b | Endcap 1+B2 | 6 | 2437(Mid) | CCK | 20.32 | 0.171 | 0.011 | 1.6 | Pass |
| | | | 11 | 2462(High) | CCK | 20.40 | -0.175 | 0.00986 | 1.6 | Pass |
| 7527C | 802.11b With BT On | Endcap 1+B2 | 6 | 2437(Mid) | ССК | 20.32 | -0.171 | 0.012 | 1.6 | Pass |
| | 802.11g | Endcap 1+B2 | 1 | 2412(Low) | OFDM | 22.98 | - | - | - | - |
| | | | 6 | 2437(Mid) | OFDM | 22.07 | 0.174 | 0.0067 | 1.6 | Pass |
| | | | 11 | 2462(High) | OFDM | 22.11 | - | - | - | - |
| | 802.11b | Endcap 1+B2 | 6 | 2437(Mid) | CCK | 20.32 | 0.148 | 0.014 | 1.6 | Pass |
| 7527S | 802.11b With BT On | Endcap 1+B2 | 6 | 2437(Mid) | ССК | 20.32 | 0.106 | 0.014 | 1.6 | Pass |

2.1.1.3.2. Keypad Down With 1.5 cm Gap

| Model | Mode | Accessory | Ch an. | Freq(MHz) | Modulation Type | Conducted Power (dBm) | Power Drift (dB) | Measured 1g SAR (W/Kg) | Limit (W/Kg) | Results |
|-------|---------|-------------|-----------|------------|--------------------|-----------------------------|------------------|------------------------------|-----------------|---------|
| | | Endcap 1+B2 | 1 | 2412(Low) | CCK | 20.65 | - | - | - | - |
| | 802.11b | | 6 | 2437(Mid) | CCK | 20.32 | -0.116 | 0.011 | 1.6 | Pass |
| 7527C | | | 11 | 2462(High) | CCK | 20.40 | - | - | - | - |
| | | Endcap 1+B2 | 1 | 2412(Low) | OFDM | 22.98 | - | - | - | - |
| | 802.11g | | 6 | 2437(Mid) | OFDM | 22.07 | - | - | - | - |
| | | | 11 | 2462(High) | OFDM | 22.11 | - | - | ı | - |

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WORKABOUT PRO G2 Handheld Computer M/N: 7527S

FCC ID: GM37527SBTRA2041M

2.1.1.3.3. Holster Left Side Touch

| Model | Mode | Accessory | Chan. | Freq(MHz) | Modulation Type | Conducted Power (dBm) | Power Drift (dB) | Measured 1g SAR (W/Kg) | Limit (W/Kg) | Results |
|-------|--------------------------|-------------|-------|------------|--------------------|-----------------------------|------------------------|------------------------------|-----------------|---------|
| | | | 1 | 2412(Low) | CCK | 20.65 | -0.004 | 0.15 | 1.6 | Pass |
| | | Endcap 1+B2 | 6 | 2437(Mid) | CCK | 20.32 | -0.168 | 0.154 | 1.6 | Pass |
| | | | 11 | 2462(High) | CCK | 20.40 | -0.089 | 0.154 | 1.6 | Pass |
| | | Endcap 1+B2 | 6 | 2437(Mid) | CCK | 20.32 | -0.165 | 0.198 | 1.6 | Pass |
| | | Endcap 1+B2 | 6 | 2437(Mid) | CCK | 20.32 | 0.127 | 0.162 | 1.6 | Pass |
| | | | 1 | 2412(Low) | CCK | 20.65 | -0.192 | 0.23 | 1.6 | Pass |
| | 802.11b | Endcap 1+B2 | 6 | 2437(Mid) | CCK | 20.32 | -0.12 | 0.216 | 1.6 | Pass |
| | | | 11 | 2462(High) | CCK | 20.40 | -0.062 | 0.157 | 1.6 | Pass |
| 7527C | | Endcap 1+B2 | 6 | 2437(Mid) | CCK | 20.32 | 0.114 | 0.197 | 1.6 | Pass |
| 13210 | | POD 1 + B2 | 6 | 2437(Mid) | CCK | 20.32 | -0.106 | 0.132 | 1.6 | Pass |
| | | POD 2 + B2 | 6 | 2437(Mid) | CCK | 20.32 | -0.014 | 0.159 | 1.6 | Pass |
| | | POD 3 + B2 | 6 | 2437(Mid) | CCK | 20.32 | -0.149 | 0.152 | 1.6 | Pass |
| | | POD 4 + B2 | 6 | 2437(Mid) | CCK | 20.32 | 0.116 | 0.138 | 1.6 | Pass |
| | | POD 6 + B2 | 6 | 2437(Mid) | CCK | 20.32 | 0.022 | 0.172 | 1.6 | Pass |
| | 802.11b With BT On | Endcap 1+B2 | 6 | 2437(Mid) | CCK | 20.32 | -0.087 | 0.161 | 1.6 | Pass |
| | 802.11g | Endcap 1+B2 | 6 | 2437(Mid) | OFDM | 22.07 | -0.125 | 0.024 | 1.6 | Pass |
| 7527S | 802.11b | Endcap 6+B2 | 1 | 2412(Low) | CCK | 20.65 | -0.147 | 0.234 | 1.6 | Pass |

2.1.1.3.4. Holster Right Side Touch

| Model | Mode | Accessory | Chan. | Freq(MHz) | Modulation Type | Conducted Power (dBm) | Power Drift (dB) | Measured 1g SAR (W/Kg) | Limit (W/Kg) | Results |
|-------|---------|--------------------|-------|-----------|--------------------|-----------------------------|------------------|------------------------------|-----------------|---------|
| 7527C | 802.11b | Endcap 1+B2 | 1 | 2412(Low) | CCK | 20.65 | -0.103 | 0.01 | 1.6 | Pass |
| 1321C | 002.110 | 02.110 Endcap 1+B2 | 6 | 2437(Mid) | CCK | 20.32 | 0.107 | 0.012 | 1.6 | Pass |

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2.1.2. Maximum Peak Spatial-Average SAR in the Body Configuration

2.1.2.1. Maximum Peak Spatial-Average SAR in the Body Configuration for RFID

| # | Configuration | Device Test Positions | Antenna Position | Freq. | Channel | MAX. SAR _{1g} [W/Kg] |
|---|---|--------------------------|---------------------|--------|---------|-------------------------------------|
| × | General Population/Uncontrolled Exposure Category Limit | | | | | 1.6 |
| 0 | Top of DUT perpendicular to the phantom with spacing of 15 mm | Body | Integrated | 915.25 | Middle | 0.53 |

2.1.2.2. Maximum Peak Spatial-Average SAR in the Body Configuration for Bluetooth

| # | Configuration | Device Test Positions | Antenna Position | Freq. | Channel | $\begin{array}{c} \mathbf{MAX.} \\ \mathbf{SAR_{1g}} \\ \mathbf{[W/Kg]} \end{array}$ |
|----|---|--------------------------|---------------------|-------|---------|--|
| * | General Population/Uncontrolled Exposure Category Limit | | | | | 1.6 |
| 02 | Top of DUT perpendicular to the phantom with spacing of 15 mm | Body | Integrated | 2441 | 39 | < 0.01 |

2.1.2.3. Maximum Peak Spatial-Average SAR in the Body Configuration for 802.11b/g Wireless LAN

2.1.2.3.1. Holster Left Side Touch

| N | Model | Mode | Accessory | Chan. | Freq(MHz) | Modulation Type | Conducted Power (dBm) | Power Drift (dB) | Measured 1g SAR (W/Kg) | Limit (W/Kg) | Results |
|---|-------|---------|-------------|-------|-----------|--------------------|-----------------------------|------------------|------------------------------|-----------------|---------|
| 7 | 7527S | 802.11b | Endcap 6+B2 | 1 | 2412(Low) | CCK | 20.65 | -0.147 | 0.234 | 1.6 | Pass |

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2.1.3. Maximum Peak Spatial-Average SAR for Co-location RFID, Bluetooth and 802.11b/g Wireless LAN

The worst case maximum peak spatial-average SAR measurement result for each radio configuration was summed to verify and confirm the compliance of RF exposure safety requirement.

(Maximum Peak Spatial-Average SAR for RFID)

- + (Maximum Peak Spatial-Average SAR for Bluetooth)
- + (Maximum Peak Spatial-Average SAR for 802.11b/g Wireless LAN)
- = 0.53 + (less than 0.01) + 0.234 = (less than 0.764)

The maximum peak spatial - average SAR measured was found to be less than 0.764 W/Kg.

| Exposure Category and SAR Limits | Test Requirements | Compliance (Yes/No) |
|---|--|------------------------|
| General population/Uncontrolled exposure 0.08W/kg whole body average and spatial peak SAR of 1.6W/kg, averaged over 1gram of tissue Hands, wrist, feet and ankles have a peak SAR not to exceed 4 W/kg, averaged over 10 grams of tissue. | Requirements using guidelines established in IEEE C95.1-1991 FCC OET Bulletin 65 (Supplement C Edition 01-01) Industry Canada RSS-102 (Issue 2). ACA Radiocommunications (Electromagnetic Radiation – Human Exposure) Amendment Standard 2000 (No. 1) | YES |
| Occupational/Controlled Exposure 0.4W/kg whole body average and spatial peak SAR of 8W/kg, averaged over 1gram of tissue Hands, wrist, feet and ankles have a peak SAR not to exceed 20 W/kg, averaged over 10 grams of tissue. | Requirements using guidelines established in IEEE C95.1-1991 FCC OET Bulletin 65 (Supplement C Edition 01-01), Industry Canada RSS-102 (Issue 2) ACA Radiocommunications (Electromagnetic Radiation – Human Exposure) Amendment Standard 2000 (No. 1) | N/A |

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- Accredited by Industry Canada (Canada) under ACC-LAB (Europe/Canada MRA and APEC/Canada MRA)
- Recognized/Listed by FCC (USA)
- All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

IEEE C95.1-1991, FCC OET Bulletin 65 (Supplement C), Industry Canada RSS-102(Issue 2) and ACA Radiocommunications (Electromagnetic Radiation – Human Exposure) Amendment Standard 2000 (No. 1)

WORKABOUT PRO G2 Handheld Computer M/N: 7527S

2.2. SAR MEASUREMENT UNCERTAINTY

Please refer to each enclosed SAR test report for the uncertainty analysis of the corresponding radio module respectively for detail.

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