

| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|-----|---------------------------|------------------------------|---------------------------------|----------------|--|
| 1 | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: Revision 1 | | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 | |
| Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 | |

ELECTROMAGNETIC COMPATIBILITY

EMC TEST REPORT

FCC 47 CFR PART 22 SUBPART H FCC 47 CFR PART 24 SUBPART E AND

INDUSTRY CANADA RSS-132 ISSUE 2 INDUSTRY CANADA RSS-133 ISSUE 3

FOR

DUAL-BAND GSM/GPRS/EDGE/UMTS PCMCIA MODEM

INSTALLED IN

ITRONIX CORPORATION

IX100X SERIES RUGGED HANDHELD PC

MODEL: IX100XAC860

UTILIZING AN EXTERNAL QUARTER-WAVE HELIX ANTENNA

AND

VEHICLE-MOUNT DIPOLE ANTENNA WITH CRADLE

FCC ID: KBCIX100XAC860

IC: 1943A-IX100Xf

Test Report Serial No. 042406KBC-T744-E24GWC

Test Report Revision No.

Revision 1.1 (2nd Release)

Test Location

Celltech Compliance Testing & Engineering Lab (Celltech Labs Inc.) 1955 Moss Court Kelowna, BC Canada V1Y 9L3

| Company: | Itron | nix Corpora | tion | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | IT | RONIX |
|-----------------|---|-------------|-------|--------------|---------------------|----------------|-------------------|---------|---------------------|
| Model(s): | IX100 | XAC860 | GSM/C | SPRS/EDGE/UI | MTS PCMCIA Modem in | nstalled in I) | (100X Handheld PC | | AL DYNAMICS COMPANY |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: Sept. 21, 20 | | |
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| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: Revision 1 | | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 | |
| s Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 | |

| | | | | DEC | CLAF | RATIC | ON O | F CC | MF | ۶L | IANCE | | | | | |
|---------------------------|-----------------------------|------------------|-----------------|---------|---------------------|-----------|----------|---------------|--------|---------------------|-------------------------|---------|----------------------|---|------------|------------|
| Test Location | Testing 1955 M Kelown | oss Cour | ineering S t | Servico | es | | | | | | npany ormation | 12 S | 2825 E. N | CORPORATION Mirabeau Parkwa /alley, WA 9921 Ites | ay | |
| Phone: | 250-448 | 8-7047 | | Fax: | : 25 | 0-448-7 | 048 | | | | | | | | | |
| E-mail: | info@c | elltechlab | s.com | Web | site: | WWW.C | elltechl | abs.con | 1 | | | | | | | |
| Lab Registration | No.(s): | FCC: | 714830 | | | | | IC: | | IC | 3874 | | | | | |
| Rule Part(s): | | FCC: | §2; §22 | H; §2 | 4E | | | IC: | F | RSS | S-132 Issue | 2, R | SS-133 | Issue 3 | | |
| Device Classifica | tion: | FCC: | PCSLic | rense | d Trans | mitter (F | PCB) | IC: | 8 | 300 | MHz Cellula | ar Te | lephone | s Employing Nev | v Te | chnologies |
| Device of assinga | | 100. | 1 00 20 | Schoe | a mana | | 00) | 10. | 2 | 2 Gł | Hz Personal | Cor | nmunicat | tion Services | | |
| Device Identifica | <u>tion:</u> | FCC: | KBCIX1 | 100XA | AC860 | | | IC: | 1 | 1943 | 3A-IX100Xf | | | | | |
| Internal Trans | mitter Ty | vpe: | Dual-Ba | and G | SM/GPI | RS/EDG | E/UMT | FS PCM | | Moc | dem | Sie | rra Wire | less Model: AirC | ard | 860 |
| Host PC | : Туре: | | | Rugg | ed Han | dheld P | C | D | evic | e M | lodel(s): | _ | Itronix IX | (100X Series (IX | (100 | XAC860) |
| Transmit Freque | encv Ran | ae(s): | GSM/G | PRS/ | EDGE | Cellu | lar Ban | nd 82 | 4.2 - | - 84 | 48.8 MHz | PC | S Band | 1850.2 - | 1909 | 9.8 MHz |
| | , | 3-(-/- | U | JMTS | rs Cel | | lar Ban | nd 82 | 6.4 - | - 84 | 846.6 MHz PC | | S Band | 1852.4 - 1907.5 MHz | | 7.5 MHz |
| Receive Freque | ncy Ran | qe(s): | GSM/G | PRS/ | RS/EDGE Cellular Ba | | lar Ban | nd 86 | 9.2 - | 9.2 - 893.8 MHz | | PC | PCS Band 1930.2 - 19 | | 1989 | 9.8 MHz |
| | | J - (- / | U | JMTS | | Cellu | lar Ban | nd 87 | 1.4 - | - 89 | 91.6 MHz | PC | S Band | 1932.4 - | 1987 | 7.5 MHz |
| Maximum RF | Conduct | ted | GPRS | | | | | 8 dBm | - | | 9 Watts | - | S Band | 28.63 dBm | | .729 Watts |
| Output Powe | r Measur | ed: | EDGE | _ | | | | | | 0.489 Watts PCS Ban | | | 25.73 dBm | - | .374 Watts | |
| | | | UMTS | | Cellula | | | 0 dBm | |).25 | 51 Watts | - | S Band | 23.00 dBm | | .200 Watts |
| | | | Helix | | GPRS | Cellu | | 30.01 0 | | + | 1.00 Watts | _ | PCS | 30.44 dBm | | 1.11 Watts |
| | | | Antenn | | EDGE | Cellu | | 28.78 | | _ | 0.755 Watt | - | PCS | 30.54 dBm | | 1.13 Watts |
| Max. ERP/EIR | P Measu | red: | | | UMTS | Cellu | | 22.02 (| | _ | 0.159 Watt | - | PCS | 25.79 dBm | | .379 Watts |
| | | | Vehicle | e 🗕 | GPRS | Cellu | | 27.08 | | _ | 0.510 Watt | - | PCS | 26.04 dBm | | .401 Watts |
| | | | Antenn | | EDGE | Cellu | | 24.31 | | _ | 0.270 Watt | - | PCS | 25.41 dBm | - | .347 Watts |
| 00117 | | | | _ | UMTS | Cellu | | 20.56 | | _ | 0.114 Watt | - | PCS | 21.48 dBm | - | .141 Watts |
| GSM Trans | | | Class E | - | 0.1 | | | _ | | | | | | nly one service | - | |
| GSM Multis | | ;; | Class 1 | - | | Uplink S | | | | 50 | | | | ged Duty Cycle: | | 25% |
| GSM Pow | | | GPRS | | 1 | | RS 190 | - | 1 3 | + | EDGE 85 | | E2 | | 0: | E2 100% |
| | | | UMTS | 650: | | | FS 190 | | 3 | | Ma | ximu | Im Duty | PDCH Channel | | 100% |
| WCDMA Uplin Modulation | | | | CP | RS: GM | | name | | - | | GE: 8-PSK | | I D | | NC | |
| wouldto | r ype(s) | | Evi | | 1⁄4-Wav | | | | | - | arson, Inc. | | | P/N: 47- | - | |
| Antenna Typ | e(s) Test | ed: | | | -Mount | | | | | | Rad, Inc. | | | P/N: 47-0 | | |
| Internal Bat | tory Type | . . | ve | | hium-io | | | | | | V, 3.0 Ah | | | P/N: 46- | | |
| | | | | | wer Ad | | | Magio | | | V, S.0 An Fechnology | Co | Ltd | Model: MPE | | |
| Power Source(s) Tested: | | | F | | Wei Au | apiei | | wayic | | eri | rechnology | 00., | LIU. | | -00 | 40-12-IX |

This wireless device has demonstrated compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 47 CFR Rule Parts 2, 22H, 24E; Industry Canada RSS-132 Issue 2, RSS 133 Issue 3; and ANSI TIA/EIA-603-C-2004.

I attest to the accuracy of the data. All measurements reported herein were performed by me or were under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

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> Test Report Approved By: Spencer Watson EMC Lab Manager Celltech Labs Inc.



| Company: | Itron | ix Corpora | ation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITI | RONIX® |
|---------------|--|------------|-------|--------------|---------------------|----------------|-------------------|--------------|---------------------|
| Model(s): | IX100 | XAC860 | GSM/C | SPRS/EDGE/UI | MTS PCMCIA Modem in | nstalled in I) | (100X Handheld PC | | AL DYNAMICS COMPANY |
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| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| h | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 |
| es Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

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| Company: | Itron | ix Corpora | tion | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITI | RONIX® |
|--|-------|------------|-------------|------------------|-------------------------------|------------------|---------------------------|---------|---------------------|
| Model(s): | IX100 | XAC860 | GSM/C | GPRS/EDGE/UI | MTS PCMCIA Modem in | nstalled in I) | (100X Handheld PC | | AL DYNAMICS COMPANY |
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| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 | |
| ab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 | |

| | TEST SUMMARY | | | | | | | | | | |
|-----------------|--|--|-----------------------------------|--------------------|--------------------------------|---------------|--|--|--|--|--|
| | Referenced Standard(s): FCC CFR Title 47 Parts 2, 22 & 24 | | | | | | | | | | |
| <u>Appendix</u> | Test Description | Procedure Reference | Limit Reference | Test Start Date | <u>Test End</u> <u>Date</u> | <u>Result</u> | | | | | |
| В | Conducted RF Output Power | FCC 97-114, §2.1046 | N/A | 25Apr06 | 25Apr06 | N/A | | | | | |
| С | Effective Radiated Power Effective Isotropic Radiated Power | ANSI/TIA/EIA-603-C | §22.913 §24.232(b) | 26Apr06 | 12May06 | Pass | | | | | |
| D | Radiated Spurious Emissions | ANSI/TIA/EIA-603-C | §22.917 (a), §24.238 (a) | 15May06 | 16Jun06 | Pass | | | | | |
| E | Maximum Permissible Exposure | FCC CFR 47 § 2.1091 IEEE Std C95.1-1999 | §1.1310 Table 1 (b) | 27Apr06 | 27Apr06 | Pass | | | | | |
| | Referenced Stand | ard(s): IC RSS-132 Issue | e 2 & RSS-133 Issu | ie 3 | | | | | | | |
| В | Conducted RF Output Power | ANSI/TIA/EIA-603-C | N/A | 25Apr06 | 25Apr06 | N/A | | | | | |
| С | Effective Radiated Power Effective Isotropic Radiated Power | ANSI/TIA/EIA-603-C | RSS-132 §4.4 RSS-133 §6.4 | 26Apr06 | 12May06 | Pass | | | | | |
| D | Radiated Spurious Emissions | ANSI/TIA/EIA-603-C | RSS-132 §4.5 RSS-133 §6.5 | 15May06 | 16Jun06 | Pass | | | | | |
| Е | Maximum Permissible Exposure | RSS-102 Issue 2 | Safety Code 6 2.2.1(a) Table 5 | 27Apr06 | 27Apr06 | Pass | | | | | |

REVISION LOG

| Revision | Description | Implemented By | Implementation Date |
|----------|-------------------------------|-----------------|---------------------|
| 1.0 | Initial Release | Jonathan Hughes | July 21, 2006 |
| 1.1 | 2 ND Release (LMA) | Jonathan Hughes | Sept. 21, 2006 |

SIGNATORIES

| Prepared By: | Spencer Watton | July 18, 2006 |
|--------------|-----------------------------------|----------------|
| Name/Title: | Spencer Watson / EMC Manager | Date |
| Reviewed By: | - HE | Sept. 21, 2006 |
| Name/Title: | Jonathan Hughes / General Manager | Date |

| Company: | ltror | ix Corporation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITI | ITRONIX | |
|---|----------------------------------|----------------|---------|--------------------|----------------|-------------------|-----|---------------------|--|
| Model(s): | Model(s): IX100XAC860 GSM/GPRS/E | | | MTS PCMCIA Modem i | nstalled in I) | (100X Handheld PC | | AL DYNAMICS COMPANY | |
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1.0 <u>SCOPE</u>

This report outlines the measurements made and results collected during electromagnetic emissions testing of the AirCard 860 Dual-Band GSM/GPRS/EDGE/UMTS PCMCIA Modem installed in the Itronix Corporation Model: IX100XAC860 Rugged Handheld PC. An external Nearson ¼-Wave Helix antenna was attached to the upper right side edge of the Handheld PC. The Handheld PC also has provision for an optional vehicle cradle with utilizing a vehicle-mounted MaxRad dipole antenna. Measurement results were obtained for both antenna configurations and are presented in this report. The measurement results were applied against the applicable EMC requirements and limits outlined in the technical rules and regulations set forth in the Federal Communication Commission Code of Federal Regulations Title 47 Parts 2, 22 Subpart H, and 24 Subpart E; and Industry Canada Radio Standards Specification RSS-132 Issue 2, and RSS-133 Issue 3.

2.0 REFERENCES

2.1 Normative References

| ANSI/ISO 17025:1999 | General Requirements for competence of testing and calibration laboratories | | | | |
|---|--|--|--|--|--|
| IEEE/ANSI C63.4:2003 | Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | | | | |
| IEEE/ANSI Std C95.1:1999 | American National Standard Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields | | | | |
| ANSI/TIA/EIA-603-C:2004 | Land Mobile FM or PM Communication Equipment Measurement and Performance Standards | | | | |
| CFR Title 47 Part 2:2005 | Code of Federal Regulations Title 47: Telecommunication Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations | | | | |
| CFR Title 47 Part 22:2005 | Code of Federal Regulations Title 47: Telecommunication Part 22: Public Mobile Services | | | | |
| CFR Title 47 Part 24:2005 | Code of Federal Regulations Title 47: Telecommunication Part 24: Personal Communication Services | | | | |
| IC Spectrum Management & Telecommunications Policy | Radio Standards Specification RSS-102 Issue 2 - Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) RSS-132 Issue 2 - 800 MHz Cellular Telephones Employing New Technologies RSS-133 Issue 3 - 2 GHz Personal Communication Services RSS-212 Issue 1 (Provisional) - Test Facilities & Test Methods for Radio Equipment RSS-Gen Issue 1 - General Requirements and Information for the Certification of Radiocommunication Equipment SRSP-503 Issue 6 - Technical Requirements for Cellular Radiotelephone Systems Operating in the Bands 824 - 849 MHz and 869 - 894 MHz | | | | |

| Company: | Itron | ix Corporation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX® |
|---|---|----------------|---------|----------------|--------|---------------------|--|--------|
| Model(s): | I(s): IX100XAC860 GSM/GPRS/EDGE/UMTS PCMCIA Modem installed in IX100X Handheld PC | | | | | AL DYNAMICS COMPANY | | |
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3.0 TERMS AND DEFINITIONS

| Company: | Itron | Itronix Corporation | | Itronix Corporation FCC ID: KBCIX100XAC860 IC ID: | | 1943A-IX100Xf | RONIX |
|---|-------|---------------------|---|---|--|---------------|-------------------------|
| Model(s): | IX100 | XAC860 | GSM/GPRS/EDGE/UMTS PCMCIA Modem installed in IX100X Handheld PC | | | | AL DYNAMICS COMPANY |
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| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-1 | |
| Testing and Engineering Services Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | |

4.0 FACILITIES AND ACCREDITATIONS

The facilities used in collecting the test results outlined in this report are located at 1955 Moss Court, Kelowna, British Columbia, Canada, V1Y 9L3. The radiated and conducted emissions sites conform with the requirements set forth in ANSI C63.4 and are filed and listed with the FCC under Registration Number 714830 and Industry Canada under File Number IC 3874.

5.0 GENERAL INFORMATION

5.1 Applicant Information

| Company Name: | Itronix Corporation |
|---------------|---------------------------|
| Address: | 12825 E. Mirabeau Parkway |
| | Spokane Valley, WA 99216 |
| | United States |

5.2 DUT Description

The DUT consisted of the AirCard 860 Dual-Band GSM/GPRS/EDGE/UMTS PCMCIA Modem installed in the IX100X Rugged Handheld PC with an external Nearson ¼-Wave Helix Antenna located on the upper right side edge of the IX100X. The IX100X also utilizes an optional vehicle cradle for operation with a vehicle-mounted MaxRad dipole antenna and a 17-foot attached cable. Photographs of the devices under test are shown in Appendix A.

| Transmitter Type: | Dual-Ba | al-Band GSM/GPRS/EDGE/UMTS PCMCIA Modem | | | | | |
|---------------------------|---------|--|--------------------------|-------------------|-----------------|--|--|
| Identifier(s): | FCC ID: | KBCIX100XAC860 | IC: | IC: 1943A-IX100Xf | | | |
| Model: | AirCard | 860 | Serial Number: 357806000 | | 357806000465210 | | |
| Rule Part(s) Tested: | FCC: | §2.1091; §22.913, §22.917; §24.232(b), §24.238 | | | | | |
| | IC: | RSS-132 Issue 2, RSS-133 Issue 3 | | | | | |
| | FCC: | PCS Licensed Transmitter (PCB) | | | | | |
| Device Classification(s): | IC: | 800 MHz Cellular Telephones employing New Technologies (RSS-132) | | | | | |
| | | 2 GHz Personal Communication Services (RSS-133) | | | | | |

| Host PC: | Rugged Handheld PC | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|
| Model: | IX100X Series Serial Number: DZGEG5326ZZ5091 | | | | | | | |
| Internal Battery: | Lithium-ion 7.4V, 3.0Ah (Model: 4 | Lithium-ion 7.4V, 3.0Ah (Model: 46-0155-001) | | | | | | |
| Power Source Tested: | AC Adapter (Magic Power Technology Co., Ltd. Model: MPE-C045-12-R, Output 12VDC, 3.75A) | | | | | | | |
| Accessories Tested: | IX100X Vehicle Cradle P/N: 50-0107-001 Serial No.: 12 | | | | | | | |
| | | 1711.00 0107 001 | | | | | | |

| Antenna Type 1: | External Mounted Nearson 1/4-Wave | Antenna Type 2: | MaxRad Vehicle-Mount Dipole |
|-------------------|--|-------------------|-----------------------------|
| Model / Part No.: | Model: 321 / PN: 47-0180-003 | Model / Part No.: | P/N: WMLPVDB800/1900 |
| Gain: | -2 dBi (880-960 MHz) 0 dBi (all other) | Gain: | 3 dBi |

| Company: | Itron | nix Corpora | tion | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | A GENERAL DYNAMICS COMPANY | |
|---|-------|-------------|-------------|------------------|-------------------------------|------------------|---------------------------|----------------------------|--------------|
| Model(s): | IX100 | XAC860 | GSM/C | SPRS/EDGE/UI | MTS PCMCIA Modem in | nstalled in IX | | | |
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| ab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 | |

5.3 Mode(s) of Operation Tested

Of the three modes, GPRS, EDGE and UMTS, GPRS and EDGE were considered similar in modulation type, channel frequency and relative power level. G-TEM measurements were made in all three modes of operation and the worst case for GPRS and EDGE was chosen for prescan measurements.

5.3.1 Dual-Band GPRS

Customer supplied software was used to set the GPRS mode to the appropriate channel and power level for the specific measurement. Between GPRS and EDGE modes, EDGE was found to have higher radiated emissions when tested in a G-TEM and therefore prescan measurements were not made in GPRS mode. The following settings where used for each channel during G-TEM testing and all other tests performed.

| 5.3.1.1 | Cellular GPRS | |
|---------|---------------|--|
| | | |

| Transmit Frequency Range: | 824.2 - 848.8 MHz Ch. 128 (824.200 MHz), Ch. 190 (836.600 MHz) & Ch. 251 (848.800 MHz) |
|---------------------------|---|
| Power Gain Settings: | The proprietary Sierra Wireless Procomm Plus test script was utilized to set the RF output power to maximum |
| Modulation Type: | GMSK |

5.3.1.2 PCS GPRS

| Transmit Frequency Range: | 1850.2 - 1909.8 MHz Ch. 512 (1850.2 MHz), Ch. 661 (1880.0) & Ch. 810 (1909.8 MHz) |
|---------------------------|---|
| Power Gain Settings: | The proprietary Sierra Wireless Procomm Plus test script was utilized to set the RF output power to maximum |
| Modulation Type: | GMSK |

5.3.2 Dual-Band EDGE

Customer supplied software was used to set the EDGE mode to the appropriate channel and power level for the specific measurement. Of GPRS and EDGE, EDGE was found to have higher radiated emissions when tested in a G-TEM and therefore prescan measurements were made with the EDGE modem set to each of the low, mid and high channels in each band. Final measurements were made of all significant emissions. The following settings where used for each channel.

5.3.2.1 Cellular EDGE

| Transmit Frequency Range: | 824.2 - 848.8 MHz Ch. 128 (824.200 MHz), Ch. 190 (836.600 MHz) & Ch. 251 (848.800 MHz) |
|---------------------------|---|
| Power Gain Settings: | The proprietary Sierra Wireless Procomm Plus test script was utilized to set the RF output power to maximum |
| Modulation Type: | 8-PSK |

| Company: | Itror | nix Corpora | tion | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITRONIX [®] | |
|--|-------|-------------|-------|---------------------------|---------------------|----------------|-------------------|-----------------------------|---------------------|
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| h | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | |
| ces Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

5.3.2.2 PCS EDGE

| Transmit Frequency Range: | 1850.2 - 1909.8 MHz Ch. 512 (1850.2 MHz), Ch. 661 (1880.0 MHz) & Ch. 810 (1909.8 MHz) | | | |
|---------------------------|---|--|--|--|
| Power Gain Settings: | The proprietary Sierra Wireless Procomm Plus test script was utilized to set the RF output power to maximum | | | |
| Modulation Type: | 8-PSK | | | |

5.3.3 Dual-Band UMTS

The Anritsu MT8820A Radio Communications Test Set was used to set the UMTS mode to the appropriate channel and power level for the specific measurement via air-link. Prescan measurements were made with the UMTS mode set to the low, mid and high channels for each band. Final measurements were made of all significant emissions. The following settings where used for each channel.

5.3.3.1 Cellular UMTS

| Transmit Frequency Range: | 826.4 - 846.6 MHz Ch. 4132 (826.4 MHz), Ch. 4182 (836.4 MHz) & Ch. 4233 (846.6 MHz) | | | |
|---------------------------|--|--|--|--|
| Power Gain Settings: | The maximum output power setting was established using the Anritsu 8820A Radio Communications Test Set in "All Up Bits" power control mode | | | |
| Modulation Type: | WCDMA | | | |

5.3.3.2 PCS UMTS

| Transmit Frequency Range: | 1852.4 - 1907.5 MHz Ch. 9262 (1852.4 MHz), Ch. 9400 (1880.0 MHz) & Ch. 9538 (1907.5 MHz) |
|---------------------------|--|
| Power Gain Settings: | The maximum output power setting was established using the Anritsu 8820A Radio Communications Test Set in "All Up Bits" power control mode |
| Modulation Type: | WCDMA |

5.4 Configuration Description

The DUT was configured as described by the client as being representative of what would be delivered to a final customer. Using radiated power measurements as a reference, the IX100X was positioned face up (keypad side up) for the spurious emissions testing described herein. For the ERP/EIRP measurements, the IX100X was oriented to match the orientation of the receive antenna. More specific details may be included in each appendix.

5.4.1 Configuration Justification

The IX100X was tested in a configuration described by the client as being worse case but typical of normal use. Since the system is available for use while hand held or installed in a mobile vehicle cradle using a vehicle-mounted dipole antenna, both configurations were tested and results reported herein.

6.0 PASS/FAIL CRITERIA

Unless otherwise noted in the Appendices, the pass/fail criteria is the limit set forth in the reference standards. A DUT is considered to have passed the requirements, if the data collected during the described measurement procedure is no greater than the specified limits as defined. The pass/fail statements made in this report only apply to the unit tested.

| Company: | Itron | ix Corpora | tion | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | |
|---|-------|------------|-------------|------------------|-------------------------------|------------------|---------------------------|---------|--------------|
| Model(s): | IX100 | XAC860 | GSM/0 | SPRS/EDGE/UI | MTS PCMCIA Modem in | nstalled in I) | K100X Handheld PC | | |
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|-----|---------------------------|------------------------------|-------------------------------|----------------|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: Revision | |
| 1 | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 |
| Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

APPENDICES

| | Company: | Itronix Corporation | | ny: Itronix Corporation FCC ID: KBCIX100XAC860 IC ID: 1943A-I | | 1943A-IX100Xf | | RONIX | | |
|--|-----------|---------------------|--|---|---------------|---------------------|----------------|-------|--|---------------------|
| | Model(s): | s): IX100XAC860 GS | | GSM/G | PRS/EDGE/U | MTS PCMCIA Modem in | nstalled in IX | | | AL DYNAMICS COMPANY |
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|--------|---------------------------|------------------------------|----------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| h | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| es Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 | |

Appendix A - Photographs

A.1 DUT PHOTOGRAPHS



| Company: | ltron | ix Corporation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITRONIX | |
|---------------------------------------|----------------------------|---------------------|--------------------|---|------------------|---------------------------|----------------------------|---------------|
| Model(s): | Model(s): IX100XAC860 GSM/ | | GPRS/EDGE/UI | RS/EDGE/UMTS PCMCIA Modem installed in IX100X Handheld PC | | | A GENERAL DYNAMICS COMPANY | |
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|---------------------------|------------------------|------------------------------|----------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: Revision 1 | | |
| Test Standard(s): | | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| Test Lab Registration(s): | | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

Appendix B - Conducted RF Output Power Measurement

| B.1 REFERENCES | |
|---------------------------------|------------------------|
| Normative Reference Standard | FCC CFR 47 §2.1046 (a) |
| Procedure Reference | FCC 97-114 |

| B.2 LIMITS | | | | |
|---|--|--|--|--|
| B.2.1 FCC CFR 47 | | | | |
| FCC CFR 47 §2.1046 (a) | For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedures to give the values of current and voltage on the circuit elements specified in §2.1033(c) (8). | | | |
| *ERP and EIRP limits are specified in Appendix C. | | | | |

| B.3 ENVIRONMENTAL CONDITIONS | | |
|------------------------------|---------------|--|
| Temperature | 25 +/- 5 °C | |
| Humidity | 40 +/- 10 % | |
| Barometric Pressure | 101 +/- 3 kPa | |

| B.4 EQUIPMENT LIST | | | | | | | |
|--------------------|--------------|-------------|-------------------------------|----------|----------|--|--|
| ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE | | |
| 00110 | Gigatronics | 8652A | Power Meter | 12Apr06 | 12Apr07 | | |
| 00011 | Gigatronics | 80701A | Power Sensor | 03Feb06 | 03Feb07 | | |
| 00012 | Gigatronics | 80701A | Power Sensor | 12Sept05 | 12Sept06 | | |
| 00102 | Pasternack | PE7015-3010 | 30 dB Attenuator | n/a* | n/a* | | |
| 00208 | Anritsu | MT8820A | Radio Communications Test Set | 06Jun06 | 06Jun07 | | |
| 00078 | Pasternack | PE2214-20 | Directional Coupler 1-18 GHz | n/a* | n/a* | | |

*Verified with power meter prior to use

| Company: | · · · · · · · · · · · · · · · · · · · | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITI | RONIX® |
|--|---------------------------------------|--|--------------------|--|------------------|----------------------------|---------|----------------------------|
| Model(s): | | | GPRS/EDGE/U | EDGE/UMTS PCMCIA Modem installed in IX100X Handheld PC | | | | A GENERAL DYNAMICS COMPANY |
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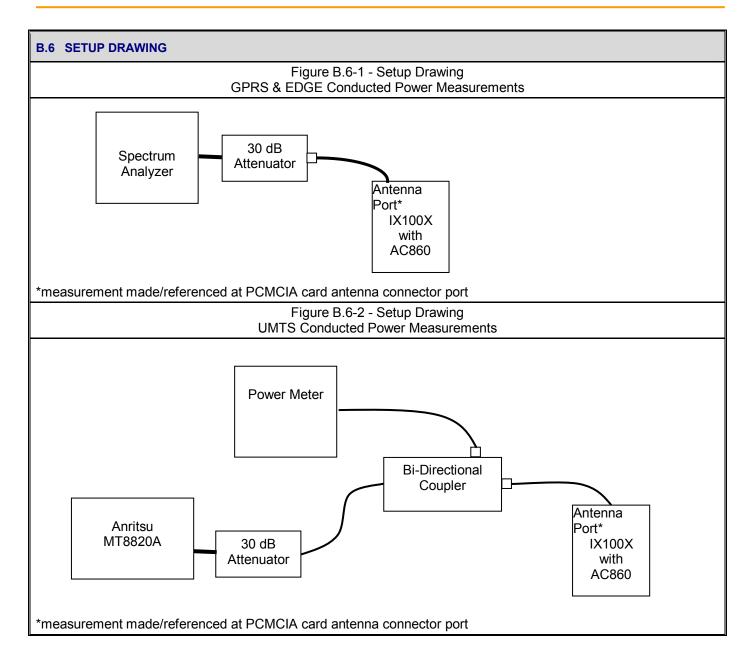


| Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 |
|---------------------------|---|-----------------------------|----------------|
| Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| Test Standard(s): | ard(s): FCC 47 CFR §2, §22H, §24E Industry Canada RSS-132, RS | | S-132, RSS-133 |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

| B.5 MEASUREMENT EC | UIPMENT SETUP | | |
|---|---|--|--|
| Measurement Equipment Connections | The equipment was connected as shown in the setup drawing in B.6. | | |
| Measurement Equipment Settings - GPRS and EDGE | Power Meter Settings: Mode - BAP Frequency compensation set for carrier frequency Offset set appropriately for attenuator characteristics | | |
| Measurement Procedure - GPRS and EDGE | The RF conducted output power levels for both PCS and cellular bands in both GPRS and EDGE modes were measured at the IX100X antenna connector port using a Gigatronics 8652A Universal Power Meter in burst average power mode. An offset was entered into the power meter to correct for the losses of the attenuator and cable installed between the transmitter output port and the power sensor input. The proprietary Sierra Wireless Procomm Plus test script was used to set the DUT to transmit at maximum output power level as described in section 5.5. All subsequent tests were performed using the same device setup procedures. | | |
| Measurement Equipment Settings - UMTS | Power Meter Settings: Mode - MAP Frequency compensation set for carrier frequency Offset set appropriately for attenuator characteristics | | |
| Measurement Procedure - UMTS | The RF conducted output power levels for both PCS and cellular bands were measured at the DUT antenna connector port using a Gigatronics 8652A Universal Power Meter in modulated average power mode. An offset was entered into the power meter to correct for the losses of the directional coupler and cable installed between the transmitter output port and the power sensor input. The Anritsu Radio Communications Test Set was utilized to set the DUT to transmit at maximum output power level as described in section 5.5. All subsequent tests were performed using the device setup procedures. | | |
| PROCEDURES USED TO ESTABLISH TEST SIGNAL (UMTS) | The following settings were used to configure the Anritsu MT8820A Communications Test Set:Instrument InformationWCDMAApplication:WCDMAStandard:MX88200B 4.41 #003Scenario:MX882050ASerial Number:6200241241Call ParametersPreset:3GPPTest Loop Mode:Mode 1Channel Coding:Reference Measurement Channel 12.2 kbpsDTCH Data Pattern:PN9Power Control Algorithm:Algorithm 1TPC Step size:1dBPower Control Bit Pattern:All-Up BitsUL Channel:9262 / 9400 / 9538 4132 / 4182 / 4233DL Channel:9662 / 9800 / 9938 4357 / 4407 / 4458 | | |

| Company: | Itron | ix Corpora | tion | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITRONIX | |
|---|--|------------|---------------------|---|----------------|--------|----------------------------|---------|--|
| Model(s): | Model(s): IX100XAC860 GSM/GPRS/EDGE/UMTS PCMCL | | MTS PCMCIA Modem in | CIA Modem installed in IX100X Handheld PC | | | A GENERAL DYNAMICS COMPANY | | |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 |
|--------------------------------------|---------------------------|------------------------------|--------------------------------|----------------|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| Celltech | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 |
| Testing and Engineering Services Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | |



| Company: | ltror | nix Corpora | tion | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITRONIX | |
|---|---------------------------|-------------|-------|--|----------------|--------|-------------------|----------------------------|--|
| Model(s): | Model(s): IX100XAC860 GSM | | GSM/C | PRS/EDGE/UMTS PCMCIA Modem installed in IX100X Handl | | | (100X Handheld PC | A GENERAL DYNAMICS COMPANY | |
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| Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | |
| Test Lab Registration(s): | Lab Registration(s): FCC Lab Registration #714830 Industry Canada Lab File | | ab File #3874 |

B.7 DUT OPERATING DESCRIPTION

Power measurements were made in the cellular and PCS bands, with the DUT set appropriately as described in section 5.7.1

| B.8 TEST RESULTS | | | |
|------------------|---------|------------|-----------------|
| Mode | Channel | Frequency | Conducted Power |
| | 128 | 824.2 MHz | +31.75 dBm |
| Cellular GPRS | 190 | 836.6 MHz | +31.84 dBm |
| | 251 | 848.8 MHz | +32.28 dBm |
| | 128 | 824.2 MHz | +26.68 dBm |
| Cellular EDGE | 190 | 836.6 MHz | +26.89 dBm |
| | 251 | 848.8 MHz | +26.72 dBm |
| | 4132 | 826.4 MHz | +23.80 dBm |
| Cellular UMTS | 4182 | 836.4 MHz | +23.90 dBm |
| | 4233 | 846.6 MHz | +24.00 dBm |
| | 512 | 1850.2 MHz | +28.42 dBm |
| PCS GPRS | 661 | 1880.0 MHz | +28.63 dBm |
| | 810 | 1909.8 MHz | +28.54 dBm |
| | 512 | 1850.2 MHz | +25.53 dBm |
| PCS EDGE | 661 | 1880.0 MHz | +25.73 dBm |
| | 810 | 1909.8 MHz | +25.55 dBm |
| | 9262 | 1852.4 MHz | +22.33 dBm |
| PCS UMTS | 9400 | 1880.0 MHz | +23.00 dBm |
| | 9538 | 1907.5 MHz | +22.70 dBm |

B.9 PASS/FAIL

There is no pass/fail criterion for this measurement.

B.10 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Spencer Watton

Spencer Watson EMC Manager Celltech Labs Inc.

> July 18, 2006 Date

| Company: | Itron | ix Corpora | ation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX® |
|--|-------|------------|-------|---------------|---------------------|----------------|---------------|--|---------------------|
| Model(s): IX100XAC860 GSM/ | | | GSM/C | SPRS/EDGE/UI | MTS PCMCIA Modem in | nstalled in I) | | | AL DYNAMICS COMPANY |
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|---------------------------|------------------------------|-----------------------------|----------------|
| Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

Appendix C - Effective Radiated Power / Effective Isotropic Radiated Power Measurement

| C.1 REFERENCES | |
|---------------------------------|--|
| Normative Reference Standard | FCC CFR 47 §22.913 (a), FCC CFR 47 §24.232 (b) |
| Procedure Reference | ANSI/TIA/EIA-603-C |

| C.2 LIMITS | |
|---------------------------|--|
| C.2.1 FCC CFR 4 | 17 |
| FCC CFR 47 §22.913 (a) | (a) Maximum ERP |
| FCC CFR 47 §24.232 (b) | (b) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications. |

| C.3 ENVIRONMENTAL CONDITIO | C.3 ENVIRONMENTAL CONDITIONS | | | |
|----------------------------|------------------------------|--|--|--|
| Temperature | 25 +/- 5 °C | | | |
| Humidity | 40 +/- 10 % | | | |
| Barometric Pressure | 101 +/- 3 kPa | | | |

| ^ | | IOT |
|----------|-------|-----|
| 1.4 | IPMEN | 151 |
| · · · · | | |
| | | |

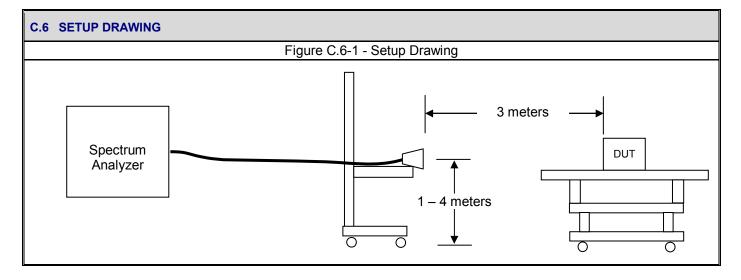
| ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE |
|--------------|--------------------|-----------|-------------------------------------|----------|---------|
| 00072 | EMCO | 2075 | Mini-mast | n/a | n/a |
| 00073 | EMCO | 2080 | Turn Table | n/a | n/a |
| 00071 | EMCO | 2090 | Multi-Device Controller | n/a | n/a |
| 00050 | Chase | CBL-6111A | Bilog Antenna | 04Apr06 | 04Apr07 |
| 00055 | EMCO | 3121C | Dipole Antenna | 04Apr06 | 04Apr07 |
| 00034 | ETS | 3115 | Double Ridged Guide Horn | 11Aug05 | 11Aug07 |
| 00035 | ETS | 3115 | Double Ridged Guide Horn | 03Apr06 | 03Apr08 |
| 00161 | Waveline | 899 | Standard Gain Horn Antenna | n/a | n/a |
| 00051 | HP | 8566B | Spectrum Analyzer RF Section | 04Apr06 | 04Apr07 |
| 00049 | HP | 85650A | Quasi-peak Adapter | 04Apr06 | 04Apr07 |
| 00047 | HP | 85685A | RF Preselector | 05Apr06 | 05Apr07 |
| 00048 | Gore | 65474 | Microwave Cable | 16Aug05 | 16Aug06 |
| 00006 | R & S | SMR 20 | Signal Generator (10MHz-40GHz) | 06Apr06 | 06Apr07 |
| 00114 | Amplifier Research | DC7154 | Directional Coupler (0.8-4.2 GHz) | n/a | n/a |
| 00078 | Pasternack | PE2214-20 | Directional Coupler (1-18 GHz) | n/a | n/a |
| 00106 | Amplifier Research | 5S1G4 | Power Amplifier (5W, 800MHz-4.2GHz) | n/a | n/a |
| 00041 | Amplifier Research | 10W1000C | Power Amplifier (0.5 – 1 GHz) | n/a | n/a |
| 00110 | Gigatronics | 8652A | Power Meter | 12Apr06 | 12Apr07 |
| 00011 | Gigatronics | 80701A | Power Sensor | 03Feb06 | 03Feb07 |
| 00208 | Anritsu | MT8820A | Radio Communication Test Set | 06Jun06 | 06Jun07 |

| Company: | Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX | |
|---|-----------------------|--|---------|--|-------------------------------|------------------|---------------------------|----------------------------|---------------|
| Model(s): | (s): IX100XAC860 GSM/ | | | PRS/EDGE/UMTS PCMCIA Modem installed in IX100X Handheld PC | | | | A GENERAL DYNAMICS COMPANY | |
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| Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 | |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 | |

| C.5 MEASUREMENT EQUIPMENT SETUP | | | | | | | | | |
|---------------------------------|--|---|--|---|--|--|--|--|--|
| MEASUREMENT EQUIPMENT | For the field strength measure number of antennas were used antenna was used are as for appropriate antenna and fed fr the emission being investigated | l to cover the applicable fi bllows. For the final su om a CW signal source s | equency range tested. The local structure of the second structure of the secon | he ranges in which each was replaced with the | | | | | |
| CONNECTIONS | Frequency F | Range | RX Antenna | TX Antenna | | | | | |
| | 30 MHz - 1 | GHz | Bilog | Dipole | | | | | |
| | 1 GHz - 18 | GHz | ETS 3115 Horn | ETS 3115 Horn | | | | | |
| | For the spurious out-of-band emissions, the spectrum analyzer was set to the following settings: | | | | | | | | |
| MEASUREMENT | Mode | RBW | VBW | Detector | | | | | |
| EQUIPMENT SETTINGS | | kHz | kHz | 200000 | | | | | |
| SET TINGS | Cellular | 100 | 300 | Peak | | | | | |
| | PCS | 1000 | 1000 | Peak | | | | | |



| Company: | Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITRO | NIX ® |
|-----------------|---------------------------|----------------------|------------------|-------------------------------|------------------|----------------------------|----------------|--------------|
| Model(s): | Model(s): IX100XAC860 GSI | | | MTS PCMCIA Modem ii | nstalled in IX | | A GENERAL DYNA | |
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|----|---------------------------|--|---------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-13 | | |
| ab | Test Lab Registration(s): | FCC Lab Registration #714830 Industry Canada Lab Fil | | ab File #3874 | |

| C.7 SETUP PHOTOGRAPHS | |
|---|---|
| Photograph C.7-1 - Bilog Receive Antenna with IX100X and Nearson Helix Antenna Configuration | Photograph C.7-2 - Horn Receive Antenna with IX100X and Nearson Helix Antenna Configuration |
| <image/> | |
| Photograph C.7-3 - Dipole Substitution Setup | Photograph C.7-4 - Horn Substitution Setup |
| | |

| Company: | Company: Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITI | RONIX® |
|-----------------|------------------------------|---------------------|--------------------|---------------------------------|------------------|---------------------------|---------|---------------------|
| Model(s): | Model(s): IX100XAC860 GS | | | MTS PCMCIA Modem in | nstalled in I) | (100X Handheld PC | | AL DYNAMICS COMPANY |
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C.8 DUT OPERATING DESCRIPTION

Measurements were made for the low, mid and high channels transmitting in each of the modulation types for both the cellular and PCS bands at maximum power level as described in Appendix B. Each antenna configuration (Nearson External Helix and MaxRad Vehicle-Mount) was evaluated.

| Company: | Itror | Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX® |
|-----------------|----------------------------|---------------------|-------------|---|-------------------------------|------------------|---------------------------|----------------------------|---------------|
| Model(s): | Nodel(s): IX100XAC860 GSM/ | | | GPRS/EDGE/UMTS PCMCIA Modem installed in IX100X Handheld PC | | | (100X Handheld PC | A GENERAL DYNAMICS COMPANY | |
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|-------|---------------------------|--|---------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-13 | | |
| s Lab | Test Lab Registration(s): | FCC Lab Registration #714830 Industry Canada Lab Fil | | ab File #3874 | |

C.9 TEST RESULTS C.9.1 Carrier Levels (Attached Nearson Helix Antenna) C.9.1.1 Cellular GPRS Carrier Levels FCC22.913 744 Project Number: Standard: Celltech Itronix Test Start Date: 26-Apr-06 Company: IX100X with AC860 26-Apr-06 Test End Date: Product: Substituted SA Power Measured ERP Carrier Chanr Corrected Antenna Configuration ERP Limit Frequency Signal Level Applied to Polarity Margin Distar Field Strength Gain Pass/F Level (uncorrected) Antenna ail Car MHz dBuV/m dBuV dBd Watts dB milliW atts Orientation Accessory m dBm dBm dBm Portable GPRS Cellular Band Radiated Carrier Power Levels Face Up None н 3 128 824.2000 132.12 105.60 30.23 -1.45 38.45 7.00 9.67 PASS 28.78 755.72 v 3 128 PASS Face Up None 824,2000 128.72 102.20 30.06 -1.45 38.45 7.00 9.84 28.61 726.71 н 3 190 836.6000 132.66 105.80 30.83 -1.35 38.45 7.00 PASS 887.73 Face Up None 8.97 29.48 ٧ 3 -1.35 190 124.86 98.00 26.09 38.45 7.00 13.71 PASS 24.74 298.04 Face Up None 836.6000 Face Up None н 3 251 848.8000 133.12 106.00 31.26 -1.25 38.45 7.00 8.44 PASS 30.01 1002.40 Face Up None ٧ 3 251 848.8000 129.52 102.40 31.13 -1.25 38.45 7.00 8.57 PASS 29.88 972.84 Note Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd) The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here. C.9.1.2 PCS GPRS Carrier Levels FCC24.232b Project Number: 744 Standard: Celltech 1-May-06 Itronix Test Start Date: Company: 1-May-06 Product: IX100X with AC860 Test End Date: Substituted SA Power Measured EIRP Carrier Corrected Antenna Configuration EIRP Limit Chan Signal Level Applied to Polarity Frequency Distar Margin Field Strength Gain Pass/F Level (uncorrected) Antenna ail Carri m MHz dBuV/m dBuV dBm dBi Watts dB milliW atts Orientation dBm dBm Accessory Portable GPRS PCS Band Radiated Carrier Power Levels Face Up None н 3 512 1850.2000 126.61 93.80 21.13 8.82 33.01 2.00 1.63 PASS 29.95 988.61 Face Up None v 3 512 1850.2000 126.11 93.30 19.83 8.82 33.01 2.00 2.13 PASS 28.65 732.87 н 3 661 1880.0000 125.97 93.00 21.58 33.01 2.00 2.27 PASS 1105.61 Face Up 8.86 30.44 None Face Up None v 3 661 1880.0000 125.67 92 70 20.24 8.86 33.01 2.00 2.57 PASS 29.10 812 08 Face Up None н 3 810 1909.8000 123.94 90.80 19.84 8.89 33.01 2.00 4.30 PASS 28.73 746.75 v 810 1909 8000 125 24 PASS 803 85 Face Up None 3 92 10 20 16 8 89 33.01 2 00 3.00 29.05 Note: Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd) The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here.

| Company: | Company: Itronix Corporation | | tion | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX® |
|--|------------------------------|--|------|---|---------------------|----------------|-------------------|--|---------------------|
| Model(s): | Model(s): IX100XAC860 GSI | | | SPRS/EDGE/U | MTS PCMCIA Modem in | nstalled in I) | (100X Handheld PC | | AL DYNAMICS COMPANY |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|-----|---------------------------|------------------------------|--------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| 1 | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-1 | | |
| Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 | |

C.9.2 Carrier Levels (Attached Nearson Helix Antenna) C.9.2.1 Cellular EDGE Carrier Levels Project Number: 744 Standard: FCC22.913 Celltech Itronix Test Start Date: 26-Apr-06 Company: Product: IX100X with AC860 Test End Date: 26-Apr-06 Substituted SA Power Chann Measured ERP Carrier Corrected Antenna Configuration ERP Limit Margin Signal Level Applied to Polarity Frequency Distar Field Strengtl Pass/ Level Gain (uncorrected) Antenna Fail Carr Orientation Accessory m MHz dBuV/m dBuV dBm dBd dBm W atts dB dBm milliWatts Portable EDGE Cellular Band Radiated Carrier Power Levels 824.2000 103.00 PASS Face Up None н 3 128 129.52 27.47 -1.45 38.45 7.00 12.43 26.02 400.28 Face Up V 3 128 824.2000 124.12 97.60 25.35 -1.45 38.45 14.55 PASS 23.90 245.67 None 7.00 Face Up None н 3 190 836.6000 131.96 105.10 30.02 -1.35 38.45 7.00 9.78 PASS 28.67 736.68 None V 3 190 836.6000 124.46 97.60 25.69 -1.35 38.45 7.00 14.11 PASS 24.34 271.82 Face Up н 3 251 848.8000 104.80 PASS 755.16 Face Up None 131.92 30.03 -1.25 38.45 7.00 9.67 28.78 Face Up None V 3 251 848.8000 125.72 98.60 27.32 -1.25 38.45 7.00 12.38 PASS 26.07 404.61 Note: Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd) The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here C.9.2.2 PCS EDGE Carrier Levels 744 FCC24.232b Project Number: Standard: Celltech Itronix Test Start Date: 2-May-06 Company: IX100X with AC860 2-May-06 Product: Test End Date: Substituted SA Powe Measured EIRP Carrier Corrected Antenna Configuration Distan Signal Level EIRP Limit Chan Frequency Applied to Polarity Margin Field Strength Gain Pass/F Level (uncorrected) Antenna ail Carrie Orientation Accessory m MHz dBuV/m dBuV dBm dBi dBm Watts dB dBm milliW atts Portable EDGE PCS Band Radiated Carrier Power Levels Face Up None н 3 512 1850.2000 125.81 93.00 20.41 8.72 33.01 2.00 2.43 PASS 29.13 818 51 Face Up None V 3 512 1850.2000 126.41 93.60 20.14 8.72 33.01 2.00 1.83 PASS 28.86 769.17 н 21.78 PASS 1131.36 Face Up 3 661 1880.0000 126.17 93.20 8.76 33.01 2.00 2.07 30.54 None Face Up None v 3 661 1880.0000 125.87 92.90 20.44 8.76 33.01 2.00 2.37 PASS 29.20 831.00 3 Face Up None н 810 1909.8000 124.64 91.50 20.58 8.79 33.01 2.00 3.60 PASS 29.37 865.32 Face Up v 3 810 1909.8000 124.84 91.70 19.76 8.79 33.01 3.40 PASS 28.55 716.43 None 2.00 Note: Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd) The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here.

| Company: | ltror | Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: |): 1943A-IX100Xf | | FRONIX ° | |
|----------------------------------|-------|---------------------|-------------|------------------|-------------------------------|------------------|---------------------------|---------|---------------------|--|
| Model(s): IX100XAC860 GSM/ | | | GSM/C | SPRS/EDGE/U | MTS PCMCIA Modem in | nstalled in I) | | | AL DYNAMICS COMPANY | |
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| Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | | | |
|---------------------------|------------------------------|--------------------------------|----------------|--|--|--|
| Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | | | |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 | | | |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | | | |

C.9.3 Carrier Levels (Attached Nearson Helix Antenna) C.9.3.1 Cellular UMTS Carrier Levels FCC22.913 744 Project Number: Standard: Celltech Company: Itronix Test Start Date: 27-Apr-06 27-Apr-06 IX100X with AC860 Product: Test End Date: Substituted SA Power Distance Measured ERP Carrier Corrected Antenna Configuration Polarity Char Signal Level Applied to ERP Limit Frequency Margin Pass Field Strength Gain Level (uncorrected) Antenna Fail ē Carri Watts dB milliWatts Orientation Accessory m MHz dBuV/m dBuV dBm dBd dBm dBm Portable WCDMA Cellular Band Radiated Carrier Power Levels 3 4132 826.4000 123.56 Face Up None н 97.00 21.38 -1.43 38.45 7.00 10.12 PASS 19.95 98.88 v 3 4132 826 4000 120.06 93 50 21 22 -1 43 38 45 7 00 13 62 PASS 19 79 95.31 Face Up None Face Up н 3 4182 836.4000 125.36 98.50 23.17 -1.35 38.45 7.00 8.32 PASS 21.82 152.10 None v 3 4182 836,4000 121.06 94.20 22.25 -1.35 123.06 Face Up None 38.45 7.00 12.62 PASS 20.90 Face Up None Н 3 4233 846.6000 125.29 98.20 23.29 -1.27 38.45 7.00 8.39 PASS 22.02 159.32 V 3 4233 846.6000 121.49 94.40 23.03 -1.27 38.45 7.00 PASS 150.07 Face Up 12.19 21.76 None Note: Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd) The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here. C.9.3.2 PCS UMTS Carrier Levels Project Number: 744 Standard: FCC24.232b Celltech Test Start Date: 3-May-06 Itronix Company: Product: IX100X with AC860 Test End Date: 3-May-06 Substituted SA Power Measured EIRP Carrier Corrected Antenna Chan EIRP Limit Configuration Distar Frequency Signal Level Applied to Margin Polarity Field Strength Pass/F Level Gain (uncorrected) Antenna ail Carrier m Orientation Accessory MHz dBuV/m dBuV dBm dBi dBm Watts dB dBm milliW atts Portable WCDMA PCS Band Radiated Carrier Power Levels 3 1852.4000 350.18 Face Up None н 9262 122.22 89.40 16.72 8.72 33.01 2.00 6.02 PASS 25.44 v 3 PASS Face Up None 9262 1852.4000 122.42 89.60 16.06 8.72 33.01 2.00 5.82 24.78 300.81 Face Up н 3 9400 1880.0000 121.17 88.20 16.69 8.76 33.01 2.00 7.07 PASS 25.45 350.43 None Face Up V 3 9400 1880.0000 119.57 86.60 13.65 8.76 33.01 2.00 8.67 PASS 22.41 174.02 None н Face Up None 3 9538 1907 5000 121.12 88.00 17.00 8.79 33.01 2.00 7.12 PASS 25.79 379.23 Face Up v 3 9538 1907.5000 121.22 88.10 15.92 8.79 33.01 2.00 7.02 PASS 24.71 295.73 None Note: Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd) The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here

| ĺ | Company: | ltror | ix Corpora | ation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX [®] |
|---|-----------------|----------|------------|-------------|------------------|-------------------------------|------------------|---------------------------|---------|---------------------------|
| | Model(s): | IX100 | XAC860 | GSM/C | SPRS/EDGE/UI | K100X Handheld PC | | AL DYNAMICS COMPANY | | |
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| Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 |
|---------------------------|------------------------------|-----------------------------|----------------|
| Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

C.9.4 Carrier Levels (MaxRad Vehicle-Mount Dipole Antenna)

C.9.4.1 Cellular GPRS Carrier Levels

| Cell | ech | | Proje Com Prode | - | ber: | 744 Itronix IX100X with A | C860 | | Standard: Test Start Test End I | Date: | FCC22.91 11-May-00 11-May-00 | 6 | | | |
|--|----------------|----------|-----------------------|-----------------|-----------|---------------------------------|---|--------------------------------|---------------------------------------|-------|------------------------------------|--------|---------------|-------|---------------------|
| Configuration Orientation Accessory | | Polarity | Distance | Carrier Channel | Frequency | Corrected Field Strength | Substituted SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | ERP | Limit | Margin | Pass/F ail | | ERP Carrier evel |
| Orientation | Accessory | | m | Са | MHz | dBuV/m | dBuV | dBm | dBd | dBm | Watts | dB | | dBm | milliWatts |
| | | | | | Mobile G | SPRS Cell E | and Radiate | d Carrier | Power Le | vels | | | | | |
| Face Up | Vehicle Cradle | н | 3 | 128 | 824.2000 | 121.42 | 94.90 | 19.19 | -1.45 | 38.45 | 7.00 | 20.71 | PASS | 17.74 | 59.48 |
| Face Up | Vehicle Cradle | V | 3 | 128 | 824.2000 | 127.32 | 100.80 | 27.59 | -1.45 | 38.45 | 7.00 | 12.31 | PASS | 26.14 | 411.49 |
| Face Up | Vehicle Cradle | н | 3 | 190 | 836.6000 | 120.46 | 93.60 | 18.25 | -1.35 | 38.45 | 7.00 | 21.55 | PASS | 16.90 | 49.01 |
| Face Up | Vehicle Cradle | v | 3 | 190 | 836.6000 | 126.86 | 100.00 | 28.11 | -1.35 | 38.45 | 7.00 | 11.69 | PASS | 26.76 | 474.55 |
| Face Up | Vehicle Cradle | н | 3 | 251 | 848.8000 | 121.62 | 94.50 | 19.61 | -1.25 | 38.45 | 7.00 | 20.09 | PASS | 18.36 | 68.56 |
| Face Up | Vehicle Cradle | v | 3 | 251 | 848.8000 | 126.72 | 99.60 | 28.33 | -1.25 | 38.45 | 7.00 | 11.37 | PASS | 27.08 | 510.55 |

The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here.

C.9.4.2 PCS GPRS Carrier Levels

| Cell | | | Proje Comj Prodi | - | ber: | 744 Itronix IX100X with A | C860 | | Standard: Test Start Test End D | Date: | FCC24.23 12-May-00 12-May-00 | 6 | | | |
|--------------------|-----------|----------|------------------------|-----------------|-----------|---------------------------------|---|--------------------------------|---------------------------------------|-------|------------------------------------|--------|---------------|-------|----------------------|
| Config | juration | Polarity | Distance | Carrier Channel | Frequency | Corrected Field Strength | Substituted SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | EIRP | Limit | Margin | Pass/F ail | | EIRP Carrier evel |
| Orientation | Accessory | | m | Ca | MHz | dBuV/m | dBuV | dBm | dBi | dBm | Watts | dB | | dBm | milliWatts |
| | | | | | Mobile G | PRS PCS E | Band Radiate | d Carrier | Power Le | evels | | | • | | |
| Face Up | None | н | 3 | 512 | 1850.2000 | 107.61 | 74.80 | 2.18 | 8.72 | 33.01 | 2.00 | 20.63 | PASS | 10.90 | 12.30 |
| Face Up | None | V | 3 | 512 | 1850.2000 | 120.41 | 87.60 | 13.95 | 8.72 | 33.01 | 2.00 | 7.83 | PASS | 22.67 | 184.94 |
| Face Up | None | н | 3 | 661 | 1880.0000 | 108.17 | 75.20 | 3.75 | 8.76 | 33.01 | 2.00 | 20.07 | PASS | 12.51 | 17.81 |
| | None | v | 3 | 661 | 1880.0000 | 122.87 | 89.90 | 17.28 | 8.76 | 33.01 | 2.00 | 5.37 | PASS | 26.04 | 401.42 |
| Face Up | | | - | 810 | 1909.8000 | 106.34 | 73.20 | 2.27 | 8.79 | 33.01 | 2.00 | 21.90 | PASS | 11.06 | 12.77 |
| Face Up Face Up | None | н | 3 | 810 | 1303.0000 | 100.34 | 10.20 | | | | | | | | |

| ĺ | Company: | Itronix Corporation | | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX |
|---|-----------------|---------------------|------------|-------------|------------------|-------------------------------|------------------|---------------------------|---------|---------------------|
| | Model(s): | IX100 | XAC860 | GSM/0 | GPRS/EDGE/UI | MTS PCMCIA Modem in | nstalled in I) | | | AL DYNAMICS COMPANY |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 |
|----|---------------------------|------------------------------|-----------------------------|----------------|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 |
| ab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

C.9.5 Carrier Levels (MaxRad Vehicle-Mount Dipole Antenna) C.9.5.1 Cellular EDGE Carrier Levels 744 FCC22.913 Project Number: Standard: Celltech 11-May-06 Itronix Company: Test Start Date: Product: IX100X with AC860 Test End Date: 11-May-06 Distance Substituted SA Power Measured ERP Carrier Corrected Antenna Configuration Chan Signal Level Applied to ERP Limit Polarity Frequency Margin Field Strength Gain Pass/F Level (uncorrected) Antenna ail Carri m Orientation Accessory MHz dBuV/m dBuV dBm dBd dBm Watts dB dBm milliW atts Mobile EDGE Cell Band Radiated Carrier Power Levels Face Up Vehicle Cradle н 3 128 824.2000 119.42 92.90 17.19 -1.45 38.45 7.00 22.71 PASS 15.74 37.53 Face Up Vehicle Cradle V 3 128 824.2000 124.52 98.00 25.75 -1.45 38.45 7.00 14.15 PASS 24.30 269.38 Face Up Vehicle Cradle Н 3 190 836.6000 119.26 92.40 17.05 -1.35 38.45 7.00 22.75 PASS 15.70 37.18 3 Face Up Vehicle Cradle V 190 836.6000 124.06 97.20 25.28 -1.35 38.45 7.00 14.52 PASS 23.93 247.33 Face Up Vehicle Cradle н 3 251 848.8000 119.32 92.20 21.31 -1.25 38.45 7.00 18.39 PASS 20.06 101.40 Face Up Vehicle Cradle v 3 251 848.8000 124.02 96.90 25.56 -1.25 38.45 7.00 14.14 PASS 24.31 269.80 Note Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd) The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here. C.9.5.2 PCS EDGE Carrier Levels FCC24.232b 744 Project Number: Standard: Celltech Company: Itronix Test Start Date: 12-May-06 12-May-06 Product: IX100X with AC860 Test End Date: Substituted SA Distance Powe Measured EIRP Carrie Corrected Antenna Chan EIRP Limit Configuration Applied to Polarity Frequency Signal Level Margin Field Strength Gain Pass/F Level (uncorrected) Antenna ail Carrier m Orientation MHz dBuV/m dBuV dBm dBi dBm Watts dB dBm milliWatts Accessory Mobile EDGE PCS Band Radiated Carrier Power Levels Face Up None н 3 512 1850.2000 106.91 74.10 1.48 8.72 33.01 2.00 21.33 PASS 10.20 10.47 None V 3 512 1850.2000 120.11 87.30 13.65 8.72 33.01 2.00 8.13 PASS 22.37 172.59 Face Up Face Up None Н 3 661 1880.0000 108.17 75.20 3.75 8.76 33.01 2.00 20.07 PASS 12.51 17.81 661 1880.0000 122.37 16.65 PASS 25.41 347.22 Face Up None v 3 89.40 8.76 33.01 2.00 5.87 Face Up None н 3 810 1909.8000 106.14 73.00 12 07 8.79 33.01 2.00 22.10 PASS 20.86 121.95 Face Up None V 3 810 1909.8000 118.84 85.70 13.40 8.79 33.01 2.00 9.40 PASS 22.19 165.64 Note:

Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd)

The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here.

| Company: | Itron | nix Corpora | ation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX |
|-----------------|----------|-------------|-------------|------------------|-------------------------------|------------------|---------------------------|---------|---------------------|
| Model(s): | IX100 | XAC860 | GSM/C | SPRS/EDGE/UI | MTS PCMCIA Modem i | nstalled in I) | | | AL DYNAMICS COMPANY |
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| Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 |
|---------------------------|------------------------------|-----------------------------|----------------|
| Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

C.9.6 Carrier Levels (MaxRad Vehicle-Mount Dipole Antenna)

C.9.6.1 Cellular UMTS Carrier Levels

| Cellt | ech | | Proje Comj Prodi | - | ber: | 744 Itronix IX100X with A0 | C860 | | Standard: Test Start Test End D | | FCC22.9 ⁻ 11-May-0 11-May-0 | 6 | | | |
|-------------|-----------|----------|------------------------|-----------------|-----------|----------------------------------|---|--------------------------------|---------------------------------------|-------|--|--------|---------------|-------|---------------------|
| Config | juration | Polarity | Distance | Carrier Channel | Frequency | Corrected Field Strength | Substituted SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | ERP | Limit | Margin | Pass/F ail | | ERP Carrier evel |
| Orientation | Accessory | 1 | m | Са | MHz | dBuV/m | dBuV | dBm | dBd | dBm | Watts | dB | 1 | dBm | milliWatts |
| | | | | | Mobile W | CDMA Cell | Band Radiat | ed Carrie | Power L | evels | | | | | |
| Face Up | None | н | 3 | 4132 | 826.4000 | 114.26 | 87.70 | 11.99 | -1.43 | 38.45 | 7.00 | 19.42 | PASS | 10.56 | 11.38 |
| Face Up | None | v | 3 | 4132 | 826.4000 | 119.66 | 93.10 | 20.82 | -1.43 | 38.45 | 7.00 | 14.02 | PASS | 19.39 | 86.92 |
| Face Up | None | н | 3 | 4182 | 836.4000 | 114.26 | 87.40 | 12.05 | -1.35 | 38.45 | 7.00 | 19.42 | PASS | 10.70 | 11.75 |
| Face Up | None | v | 3 | 4182 | 836.4000 | 120.36 | 93.50 | 21.55 | -1.35 | 38.45 | 7.00 | 13.32 | PASS | 20.20 | 104.74 |
| Face Up | None | н | 3 | 4233 | 846.6000 | 113.09 | 86.00 | 11.11 | -1.27 | 38.45 | 7.00 | 20.59 | PASS | 9.84 | 9.64 |
| Face Up | None | v | 3 | 4233 | 846.6000 | 120.29 | 93.20 | 21.83 | -1.27 | 38.45 | 7.00 | 13.39 | PASS | 20.56 | 113.84 |

Note:

Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd)

The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here.

C.9.6.2 PCS UMTS Carrier Levels

| Celitech Istry and Egyneering Services Lat | | | Com Prod | - | | Itronix IX100X with A | C860 | | Test Start Test End D | | 11-May-0 11-May-0 | | | | |
|---|--------------------|----------|-------------|-----------------|-----------|-----------------------------|---|--------------------------------|--------------------------|--------|----------------------|--------|---------------|-------|----------------------|
| Config | uration | Polarity | Distance | Carrier Channel | Frequency | Corrected Field Strength | Substituted SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | EIRF | Limit | Margin | Pass/F ail | | EIRP Carrier evel |
| Orientation | Accessory | | m | C | MHz | dBuV/m | dBuV | dBm | dBi | dBm | Watts | dB | | dBm | milliWatts |
| | | | | | Mobile W | CDMA PCS | Band Radiat | ed Carrie | r Power L | .evels | | | | | |
| Face Up | None | Н | 3 | 9262 | 1852.4000 | 104.42 | 71.60 | -1.10 | 8.72 | 33.01 | 2.00 | 23.82 | PASS | 7.62 | 5.78 |
| Face Up | None | V | 3 | 9262 | 1852.4000 | 117.82 | 85.00 | 11.19 | 8.72 | 33.01 | 2.00 | 10.42 | PASS | 19.91 | 98.01 |
| Face Up | None | н | 3 | 9400 | 1880.0000 | 103.67 | 70.70 | -0.93 | 8.76 | 33.01 | 2.00 | 24.57 | PASS | 7.83 | 6.06 |
| Face Up | None | V | 3 | 9400 | 1880.0000 | 116.77 | 83.80 | 10.38 | 8.76 | 33.01 | 2.00 | 11.47 | PASS | 19.14 | 81.96 |
| Face Up | None | н | 3 | 9538 | 1907.5000 | 105.42 | 72.30 | 1.05 | 8.79 | 33.01 | 2.00 | 22.82 | PASS | 9.84 | 9.64 |
| Face Up | None | V | 3 | 9538 | 1907.5000 | 118.22 | 85.10 | 12.69 | 8.79 | 33.01 | 2.00 | 10.02 | PASS | 21.48 | 140.57 |
| ote: | arrier Level (dBm) | | | | | | | .2.00 | 0.10 | 00.01 | 2.00 | 10.02 | | 2 | |

| ĺ | Company: | Itron | nix Corpora | ation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX |
|---|-----------------|----------|-------------|-------------|------------------|-------------------------------|------------------|---------------------------|---------|---------------------|
| | Model(s): | IX100 | XAC860 | GSM/0 | GPRS/EDGE/UI | MTS PCMCIA Modem in | nstalled in I) | | | AL DYNAMICS COMPANY |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 |
|---|---------------------------|------------------------------|---------------------------------|----------------|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-13 | |
| b | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

C.10 PASS/FAIL

In reference to the results outlined in C.9, the DUT passes the requirements as stated in the reference standards.

C.11 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Spencer Watton

Spencer Watson EMC Manager Celltech Labs Inc.

> July 18, 2006 Date

| Company: | Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX® |
|---|--------------------------|--|-------------|---------------------|----------------|---------------|--|---------------------|
| Model(s): | Iodel(s): IX100XAC860 GS | | GPRS/EDGE/U | MTS PCMCIA Modem in | nstalled in I) | | | AL DYNAMICS COMPANY |
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| Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 |
|---------------------------|------------------------------|----------------------------------|----------------|
| Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | E Industry Canada RSS-132, RSS-7 | |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | |

Appendix D - Radiated Spurious Emissions Measurement

| D.1 REFERENCES | |
|---------------------------------|--|
| Normative Reference Standard | FCC CFR 47 §22.917(a), FCC CFR 47 §24.238(a) |
| Procedure Reference | ANSI/TIA/EIA-603-C |

| D.2 LIMI | тѕ | | | |
|---------------------|------------------|--|--|--|
| D.2.1 FC | D.2.1 FCC CFR 47 | | | |
| FCC CI §22.917 & | | (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (<i>P</i>) by a factor of at least 43 + 10 log(<i>P</i>) dB. | | |

| D.3 ENVIRONMENTAL CONDITIONS | | | | |
|------------------------------|---------------|--|--|--|
| Temperature | 25 +/- 5 °C | | | |
| Humidity | 40 +/- 10 % | | | |
| Barometric Pressure | 101 +/- 3 kPa | | | |

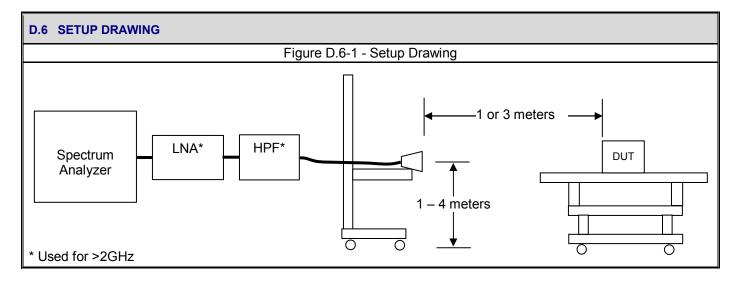
| ASSET NUMBER | | | DESCRIPTION | LAST CAL | CAL DUE |
|--------------|--------------------|--------------------|-------------------------------------|----------|---------|
| 00072 | EMCO | 2075 | Mini-mast | n/a | n/a |
| 00073 | EMCO | 2080 | Turn Table | n/a | n/a |
| 00071 | EMCO | 2090 | Multi-Device Controller | n/a | n/a |
| 00050 | Chase | CBL-6111A | Bilog Antenna | 04Apr06 | 04Apr07 |
| 00055 | EMCO | 3121C | Dipole Antenna | 04Apr06 | 04Apr07 |
| 00034 | ETS | 3115 | Double Ridged Guide Horn | 11Aug05 | 11Aug07 |
| 00035 | ETS | 3115 | Double Ridged Guide Horn | 03Apr06 | 03Apr08 |
| 00161 | Waveline | 899 | Standard Gain Horn Antenna | n/a | n/a |
| 00051 | HP | 8566B | Spectrum Analyzer RF Section | 04Apr06 | 04Apr07 |
| 00049 | HP | 85650A | Quasi-peak Adapter | 04Apr06 | 04Apr07 |
| 00047 | HP | 85685A | RF Preselector | 05Apr06 | 05Apr07 |
| 00048 | Gore | 65474 | Microwave Cable | 16Aug05 | 16Aug06 |
| 00115 | Miteq | J54-00102600-35-5A | LNA | 18Apr06 | 18Apr07 |
| 00006 | R & S | SMR 20 | Signal Generator (10MHz-40GHz) | 06Apr06 | 06Apr07 |
| 00114 | Amplifier Research | DC7154 | Directional Coupler (0.8-4.2 GHz) | n/a | n/a |
| 00078 | Pasternack | PE2214-20 | Directional Coupler (1-18 GHz) | n/a | n/a |
| 00106 | Amplifier Research | 5S1G4 | Power Amplifier (5W, 800MHz-4.2GHz) | n/a | n/a |
| 00041 | Amplifier Research | 10W1000C | Power Amplifier (0.5 – 1 GHz) | n/a | n/a |
| 00110 | Gigatronics | 8652A | Power Meter | 12Apr06 | 12Apr07 |
| 00011 | Gigatronics | 80701A | Power Sensor | 03Feb06 | 03Feb07 |
| 00208 | Anritsu | MT8820A | Radio Communication Analyzer | 06Jun06 | 06Jun07 |

| Compan | y: | Itron | Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX® |
|-------------|---|-------|---------------------|---|---------|----------------|--------|---------------|---------------------|--------|
| Model(s |): | IX100 | XAC860 | GSM/GPRS/EDGE/UMTS PCMCIA Modem installed in IX100X Handheld PC | | | | | AL DYNAMICS COMPANY | |
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|---------------------------|------------------------------|----------------------------------|----------------|
| Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

| D.5 MEASUREME | EMENT EQUIPMENT SETUP | | | | | |
|--------------------------|--|--|---|--|--|--|
| MEASUREMENT | For the field strength measure number of antennas were used antenna was used are shown appropriate antenna and fed fro the emission being investigated | to cover the applicabl below. For the fina om a CW signal source | e frequency range tested. T al substitutions, the IX100X | he ranges in which each was replaced with the | | |
| EQUIPMENT CONNECTIONS | Frequency F | Range | RX Antenna | TX Antenna | | |
| CONTECTIONS | 30 MHz - 1 | GHz | Bilog | Dipole | | |
| | 1 GHz - 18 | GHz | ETS 3115 Horn | ETS 3115 Horn | | |
| | 18 GHz - 20 | GHz | Waveline 899 Horn | Waveline 899 Horn | | |
| | For the spurious out-of-band emissions, the spectrum analyzer was set to the following settings: | | | | | |
| | Mode | RBW | VBW | Detector | | |
| MEASUREMENT | | kHz | kHz | Deteotor | | |
| EQUIPMENT | Cellular < 1 GHz | 100 | 300 | Peak* | | |
| SETTINGS | Cellular > 1 GHz | 1000 | 1000 | Peak* | | |
| | PCS | 1000 | 1000 | Peak* | | |
| | *Where the peak emission exc averaging | eeded the average lim | nit, an average measurement | was made using video | | |



| Company: | Itron | ix Corporation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITRONIX |
|---|-------|----------------|-----------------------|----------------------------|--------|---------------|---------|
| Model(s): | | | | A GENERAL DYNAMICS COMPANY | | | |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 |
|----|---------------------------|------------------------------|-----------------------------|----------------|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 |
| ab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

D.7 SETUP PHOTOGRAPHS

 Photograph D.7-1 - BiConilog Receive Antenna with IX100X and Nearson Helix Antenna Configuration
 Photograph D.7-2 - Horn Receive Antenna with IX100X and MaxRad Vehicle-Mount Antenna Configuration

 Image: Configuration in the image: Configuratin in the image: Configuration in the image:

D.8 DUT OPERATING DESCRIPTION

Measurements were made for the low, mid and high channels transmitting in each of the modulation types for both the cellular and PCS bands at maximum power level as described in Appendix B. Each antenna configuration (Nearson External Helix and MaxRad Vehicle-Mount) was evaluated.

| Company: | | | ition | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX® |
|-----------------|-------------------|------------|-------------|------------------|-------------------------------|------------------|---------------------------|----------------------------|---------------|
| Model(s): | I(s): IX100XAC860 | | GSM/C | SPRS/EDGE/UI | MTS PCMCIA Modem in | nstalled in IX | | A GENERAL DYNAMICS COMPANY | |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 |
|-----|---------------------------|------------------------------|-----------------------------|----------------|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| 1 | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 |
| Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

D.9 TEST RESULTS

The spurious measurements detailed in this section are referenced to the carrier levels set forth in Appendix C of this report:

D.9.1 Spurious Emissions (Attached Nearson Helix Antenna)

D.9.1.1 Cellular EDGE Spurious Emissions

| (| C | elitech Hing and Engineering Services Lat: | Project No Company Product: | | 744 Itronix IX100X AC860 | | | Standard: Test Start Da Test End Da | | FCC22.917 12-Jun-06 12-Jun-06 | | |
|----------|----------|---|-----------------------------------|-----------|--------------------------------|---|--------------------------|---|--------------------------|-------------------------------------|--------|-----------|
| Polarity | Distance | Substitution Antenna Type | Carrier Channel | Frequency | Corrected Field Strength | Maximized SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | ERP Emission Level | Limit | Margin | Pass/Fail |
| | m | | | MHz | dBuV/m | dBuV | dBm | dBi | dBm | dBm or dBuV/m* | dB | |
| Н | 3 | none | 128 | 1648.42 | 62.71 | 31.10 | n/a | n/a | n/a | 84.4* | 21.7* | PASS* |
| Н | 3 | none | 128 | 1648.29 | 50.01 | 18.40 | n/a | n/a | n/a | 84.4* | 34.4* | PASS* |
| Н | 3 | none | 128 | 2477.39 | 69.48 | 57.40 | n/a | n/a | n/a | 84.4* | 14.9* | PASS* |
| Н | 3 | none | 128 | 2475.02 | 37.48 | 25.40 | n/a | n/a | n/a | 84.4* | 46.9* | PASS* |
| Н | 3 | none | 128 | 3296.80 | 40.30 | 33.40 | n/a | n/a | n/a | 84.4* | 44.1* | PASS* |
| Н | 3 | none | 190 | 1673.95 | 65.55 | 33.80 | n/a | n/a | n/a | 84.4* | 18.8* | PASS* |
| Н | 3 | none | 190 | 1673.92 | 50.85 | 19.10 | n/a | n/a | n/a | 84.4* | 33.5* | PASS* |
| Н | 3 | none | 190 | 2511.01 | 46.91 | 34.70 | n/a | n/a | n/a | 84.4* | 37.5* | PASS* |
| Н | 3 | none | 190 | 3346.40 | 40.16 | 33.10 | n/a | n/a | n/a | 84.4* | 44.2* | PASS* |
| Н | 3 | none | 251 | 1697.57 | 73.92 | 42.00 | n/a | n/a | n/a | 84.4* | 10.4* | PASS* |
| Н | 3 | none | 251 | 1697.52 | 51.42 | 19.50 | n/a | n/a | n/a | 84.4* | 32.9* | PASS* |
| Н | 3 | none | 251 | 2546.39 | 46.51 | 34.10 | n/a | n/a | n/a | 84.4* | 37.9* | PASS* |
| Н | 3 | none | 251 | 3395.20 | 39.12 | 31.90 | n/a | n/a | n/a | 84.4* | 45.2* | PASS* |
| V | 3 | none | 128 | 1648.34 | 62.21 | 30.60 | n/a | n/a | n/a | 84.4* | 22.2* | PASS* |
| ۷ | 3 | none | 128 | 1648.30 | 50.11 | 18.50 | n/a | n/a | n/a | 84.4* | 34.3* | PASS* |
| ۷ | 3 | none | 128 | 2474.11 | 70.18 | 58.10 | n/a | n/a | n/a | 84.4* | 14.2* | PASS* |
| ۷ | 3 | none | 128 | 2474.20 | 44.28 | 32.20 | n/a | n/a | n/a | 84.4* | 40.1* | PASS* |
| V | 3 | none | 128 | 3296.83 | 42.50 | 35.60 | n/a | n/a | n/a | 84.4* | 41.9* | PASS* |
| V | 3 | none | 190 | 1673.83 | 57.75 | 26.00 | n/a | n/a | n/a | 84.4* | 26.6* | PASS* |
| V | 3 | none | 190 | 2510.75 | 47.31 | 35.10 | n/a | n/a | n/a | 84.4* | 37.1* | PASS* |
| V | 3 | none | 190 | 3347.92 | 41.37 | 34.30 | n/a | n/a | n/a | 84.4* | 43.0* | PASS* |
| V | 3 | none | 251 | 1697.53 | 62.82 | 30.90 | n/a | n/a | n/a | 84.4* | 21.5* | PASS* |
| V | 3 | none | 251 | 1697.82 | 53.02 | 21.10 | n/a | n/a | n/a | 84.4* | 31.3* | PASS* |
| V | 3 | none | 251 | 1229.13 | 44.96 | 15.30 | n/a | n/a | n/a | 84.4* | 39.4* | PASS* |
| V | 3 | none | 251 | 2546.27 | 47.51 | 35.10 | n/a | n/a | n/a | 84.4* | 36.9* | PASS* |
| V | 3 | none | 251 | 3395.20 | 40.02 | 32.80 | n/a | n/a | n/a | 84.4* | 44.3* | PASS* |

| Company: | Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX | |
|--|----------------------|--|---------|---|--------|---------------|---------------|-------|---------------------|
| Model(s): | odel(s): IX100XAC860 | | GSM/C | GSM/GPRS/EDGE/UMTS PCMCIA Modem installed in IX100X Handheld PC | | | | | AL DYNAMICS COMPANY |
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|-------|---------------------------|------------------------------|----------------------------------|----------------|--|
| 2 | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| s Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 | |

| | C | | Project Number: 744 Company: Itronix Product: IX100X AC860 | | | | | Standard: Test Start Da Test End Da | | FCC24.238 13-Jun-06 13-Jun-06 | | |
|----------|----------|------------------------------|--|-----------|-----------------------------|---|-----------------------------|---|---------------------------|-------------------------------------|--------|-----------|
| Polarity | Distance | Substitution Antenna Type | Carrier Channel | Frequency | Corrected Field Strength | Maximized SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | EIRP Emission Level | Limit | Margin | Pass/Fail |
| | m | | | MHz | dBuV/m | dBuV | dBm | dBi | dBm | dBm or dBuV/m* | dB | ł |
| Н | 3 | none | 512 | 3700.18 | 43.91 | 35.40 | n/a | n/a | n/a | 82.2* | 38.3* | PASS* |
| Н | 3 | none | 512 | 5550.60 | 44.59 | 30.50 | n/a | n/a | n/a | 82.2* | 37.6* | PASS* |
| Н | 3 | none | 512 | 7400.80 | 49.32 | 38.80 | n/a | n/a | n/a | 82.2* | 32.9* | PASS* |
| Н | 3 | none | 661 | 3760.00 | 46.29 | 37.70 | n/a | n/a | n/a | 82.2* | 35.9* | PASS* |
| Н | 3 | none | 661 | 5639.77 | 45.45 | 31.30 | n/a | n/a | n/a | 82.2* | 36.8* | PASS* |
| Н | 3 | none | 661 | 7520.00 | 50.36 | 39.46 | n/a | n/a | n/a | 82.2* | 31.9* | PASS* |
| Н | 3 | none | 810 | 3819.47 | 43.33 | 34.40 | n/a | n/a | n/a | 82.2* | 38.9* | PASS* |
| Н | 3 | none | 810 | 5730.05 | 46.61 | 32.60 | n/a | n/a | n/a | 82.2* | 35.6* | PASS* |
| Н | 3 | none | 810 | 7639.20 | 50.29 | 39.28 | n/a | n/a | n/a | 82.2* | 31.9* | PASS* |
| V | 3 | none | 512 | 3700.46 | 48.51 | 40.00 | n/a | n/a | n/a | 82.2* | 33.7* | PASS* |
| V | 3 | none | 512 | 5550.52 | 46.09 | 32.00 | n/a | n/a | n/a | 82.2* | 36.1* | PASS* |
| ۷ | 3 | none | 512 | 7400.80 | 50.02 | 39.50 | n/a | n/a | n/a | 82.2* | 32.2* | PASS* |
| ۷ | 3 | none | 661 | 3759.98 | 47.09 | 38.50 | n/a | n/a | n/a | 82.2* | 35.1* | PASS* |
| ۷ | 3 | none | 661 | 5640.00 | 44.55 | 30.40 | n/a | n/a | n/a | 82.2* | 37.7* | PASS* |
| ۷ | 3 | none | 661 | 7520.00 | 49.97 | 39.07 | n/a | n/a | n/a | 82.2* | 32.3* | PASS* |
| ۷ | 3 | none | 810 | 3819.41 | 50.83 | 41.90 | n/a | n/a | n/a | 82.2* | 31.4* | PASS* |
| V | 3 | none | 810 | 5729.59 | 49.71 | 35.70 | n/a | n/a | n/a | 82.2* | 32.5* | PASS* |
| V | 3 | none | 810 | 7639.20 | 50.64 | 39.63 | n/a | n/a | n/a | 82.2* | 31.6* | PASS* |

| Company: | ltror | ix Corporation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITI | A GENERAL DYNAMICS COMPANY | |
|---|-------|----------------|----------------|---------------------|----------------|-------------------|---------------|----------------------------|--|
| Model(s): | IX100 | XAC860 G | SM/GPRS/EDGE/U | MTS PCMCIA Modem in | nstalled in I) | (100X Handheld PC | | | |
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| 2 | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| h | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | E Industry Canada RSS-132, RS | | |
| es Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

| | 6 | Project Number: 744 Company: Itronix Product: IX100X AC860 | | | | | | | ate: te: | FCC22.917 13-Jun-06 13-Jun-06 | | |
|----------|----------|--|-----------------|--------------------|-----------------------------|---|-----------------------------|-----------------|--------------------------|-------------------------------------|----------------|----------------|
| Polarity | Distance | Substitution Antenna Type | Carrier Channel | Frequency | Corrected Field Strength | Maximized SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | ERP Emission Level | Limit | Margin | Pass/Fail |
| | m | | | MHz | dBuV/m | dBuV | dBm | dBi | dBm | dBm or dBuV/m* | dB | |
| Н | 3 | none | 4132 | 1655.35 | 55.45 | 23.80 | n/a | n/a | n/a | 84.4* | 28.9* | PASS* |
| Н | 3 | none | 4132 | 2475.90 | 73.98 | 61.90 | n/a | n/a | n/a | 84.4* | 10.4* | PASS* |
| Н | 3 | none | 4132 | 2474.62 | 35.78 | 23.70 | n/a | n/a | n/a | 84.4* | 48.6* | PASS* |
| Н | 3 | none | 4132 | 3305.60 | 38.91 | 32.00 | n/a | n/a | n/a | 84.4* | 45.5* | PASS* |
| Н | 3 | none | 4182 | 1675.38 | 57.16 | 25.40 | n/a | n/a | n/a | 84.4* | 27.2* | PASS* |
| Н | 3 | none | 4182 | 2513.63 | 49.62 | 37.40 | n/a | n/a | n/a | 84.4* | 34.7* | PASS* |
| Н | 3 | none | 4182 | 3345.60 | 38.96 | 31.90 | n/a | n/a | n/a | 84.4* | 45.4* | PASS* |
| н | 3 | none | 4233 | 1690.50 | 60.07 | 28.20 | n/a | n/a | n/a | 84.4* | 24.3* | PASS* |
| Н | 3 | none | 4233 | 1691.46 | 51.38 | 19.50 | n/a | n/a | n/a | 84.4* | 33.0* | PASS* |
| Н | 3 | none | 4233 | 2539.80 | 46.38 | 34.00 | n/a | n/a | n/a | 84.4* | 38.0* | PASS* |
| Н | 3 | none | 4233 | 3386.40 | 38.42 | 31.20 | n/a | n/a | n/a | 84.4* | 46.0* | PASS* |
| V | 3 | none | 4132 | 1652.80 | 59.23 | 27.60 | n/a | n/a | n/a | 84.4* | 25.1* | PASS* |
| V | 3 | none | 4132 | 2479.36 | 66.79 | 54.70 | n/a | n/a | n/a | 84.4* | 17.6* | PASS* |
| V | 3 | none | 4132 | 2474.46 | 36.18 | 24.10 | n/a | n/a | n/a | 84.4* | 48.2* | PASS* |
| V | 3 | none | 4132 | 3305.60 | 39.01 | 32.10 | n/a | n/a | n/a | 84.4* | 45.4* | PASS* |
| V | 3 | none | 4182 | 1672.80 | 59.45 | 27.70 | n/a | n/a | n/a | 84.4* | 24.9* | PASS* |
| V | 3 | none | 4182 | 2510.69 | 36.31 | 24.10 | n/a | n/a | n/a | 84.4* | 48.1* | PASS* |
| V | 3 | none | 4182 | 3345.60 | 39.56 | 32.50 | n/a | n/a | n/a | 84.4* | 44.8* | PASS* |
| V | 3 | none | 4233 | 1691.75 | 61.78 | 29.90 | n/a | n/a | n/a | 84.4* | 22.6* | PASS* |
| V | 3 | none | 4233 4233 | 2539.80 3386.40 | 46.88 39.32 | 34.50 32.10 | n/a | n/a | n/a | 84.4* 84.4* | 37.5* 45.1* | PASS* PASS* |

| Company: | Itron | nix Corporation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITI | RONIX® |
|---|-------|-----------------|-------------|---------------------|---------------------------|---------------|---------------|---------------------|
| Model(s): | IX100 | XAC860 GSM | GPRS/EDGE/U | MTS PCMCIA Modem ii | nstalled in I) | | | AL DYNAMICS COMPANY |
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|--------|---------------------------|------------------------------|-----------------------------|----------------|
| 2 | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 |
| h | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 |
| es Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 |

| (| Celltech | | Project N Company Product: | | Itronix | | | Standard: Test Start Date: Test End Date: | | FCC24.238 14-Jun-06 14-Jun-06 | | |
|----------|----------|------------------------------|----------------------------------|-----------|-----------------------------|---|--------------------------|---|---------------------------|-------------------------------------|--------|-----------|
| Polarity | Distance | Substitution Antenna Type | Carrier Channel | Frequency | Corrected Field Strength | Maximized SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | EIRP Emission Level | Limit | Margin | Pass/Fail |
| | m | | | MHz | dBuV/m | dBuV | dBm | dBi | dBm | dBm or dBuV/m* | dB | |
| Н | 3 | none | 9262 | 3707.14 | 47.48 | 39.00 | n/a | n/a | n/a | 82.2* | 34.7* | PASS* |
| Н | 3 | none | 9262 | 5557.20 | 46.04 | 31.80 | n/a | n/a | n/a | 82.2* | 36.2* | PASS* |
| Н | 3 | none | 9262 | 7409.60 | 50.27 | 39.72 | n/a | n/a | n/a | 82.2* | 32.0* | PASS* |
| Н | 3 | none | 9400 | 3758.27 | 57.29 | 48.70 | n/a | n/a | n/a | 82.2* | 24.9* | PASS* |
| Н | 3 | none | 9400 | 5640.00 | 45.15 | 31.00 | n/a | n/a | n/a | 82.2* | 37.1* | PASS* |
| Н | 3 | none | 9400 | 7520.00 | 49.94 | 39.04 | n/a | n/a | n/a | 82.2* | 32.3* | PASS* |
| Н | 3 | none | 9538 | 3812.77 | 63.76 | 54.90 | n/a | n/a | n/a | 82.2* | 18.5* | PASS* |
| Н | 3 | none | 9538 | 3813.34 | 49.97 | 41.10 | n/a | n/a | n/a | 82.2* | 32.3* | PASS* |
| Н | 3 | none | 9538 | 5722.50 | 47.29 | 33.30 | n/a | n/a | n/a | 82.2* | 34.9* | PASS* |
| Н | 3 | none | 9538 | 7630.00 | 51.15 | 40.15 | n/a | n/a | n/a | 82.2* | 31.1* | PASS* |
| V | 3 | none | 9262 | 3707.08 | 46.68 | 38.20 | n/a | n/a | n/a | 82.2* | 35.5* | PASS* |
| V | 3 | none | 9262 | 5557.20 | 45.94 | 31.70 | n/a | n/a | n/a | 82.2* | 36.3* | PASS* |
| V | 3 | none | 9262 | 7409.60 | 50.05 | 39.50 | n/a | n/a | n/a | 82.2* | 32.2* | PASS* |
| V | 3 | none | 9400 | 3758.46 | 58.89 | 50.30 | n/a | n/a | n/a | 82.2* | 23.3* | PASS* |
| V | 3 | none | 9400 | 5640.00 | 45.65 | 31.50 | n/a | n/a | n/a | 82.2* | 36.6* | PASS* |
| V | 3 | none | 9400 | 7520.00 | 49.80 | 38.90 | n/a | n/a | n/a | 82.2* | 32.4* | PASS* |
| V | 3 | none | 9538 | 3812.67 | 65.46 | 56.60 | n/a | n/a | n/a | 82.2* | 16.8* | PASS* |
| V | 3 | none | 9538 | 3813.00 | 52.47 | 43.60 | n/a | n/a | n/a | 82.2* | 29.8* | PASS* |
| ٧ | 3 | none | 9538 | 5722.50 | 46.09 | 32.10 | n/a | n/a | n/a | 82.2* | 36.1* | PASS* |

| Company: | Itron | nix Corporation | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITI | RONIX |
|-----------------|-----------------|---------------------|--------------------|---------------------------------|------------------|---------------------------|---------|---------------------|
| Model(s): | s): IX100XAC860 | | GPRS/EDGE/U | MTS PCMCIA Modem in | nstalled in I) | (100X Handheld PC | | AL DYNAMICS COMPANY |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|-----|---------------------------|------------------------------|----------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

| 2. 1 | С | ellular EDG | E Spuric | ous Emiss | sions (Mobile | e) | | | | | | |
|----------|----------|----------------------------------|-----------------|--------------------------------|-----------------------------|---|---|-----------------|-------------------------------------|----------------|----------------|----------------|
| Celltech | | Project N Company Product: | | 744 Itronix IX100X AC860 | | | Standard: Test Start Date: Test End Date: | | FCC24.238 15-Jun-06 15-Jun-06 | | | |
| Polarity | Distance | Substitution Antenna Type | Carrier Channel | Frequency | Corrected Field Strength | Maximized SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | EIRP Emission Level | Limit | Margin | Pass/Fail |
| | m | | | MHz | dBuV/m | dBuV | dBm | dBi | dBm | dBm or dBuV/m* | dB | |
| Н | 3 | none | 128 | 1648.45 | 57.51 | 25.90 | n/a | n/a | n/a | 82.2* | 24.7* | PASS* |
| н | 3 | none | 128 | 2477.43 | 68.68 | 56.60 | n/a | n/a | n/a | 82.2* | 13.5* | PASS* |
| н | 3 | none | 128 | 2475.39 | 39.28 | 27.20 | n/a | n/a | n/a | 82.2* | 42.9* | PASS* |
| Н | 3 | none | 128 | 3296.80 | 46.00 | 39.10 | n/a | n/a | n/a | 82.2* | 36.2* | PASS* |
| Н | 3 | none | 190 | 1669.00 | 52.02 | 20.30 | n/a | n/a | n/a | 82.2* | 30.2* | PASS* |
| Н | 3 | none | 190 | 2509.80 | 52.30 | 40.10 | n/a | n/a | n/a | 82.2* | 29.9* | PASS* |
| Н | 3 | none | 190 | 3346.40 | 45.96 | 38.90 | n/a | n/a | n/a | 82.2* | 36.3* | PASS* |
| Н | 3 | none | 251 | 1697.60 | 61.72 | 29.80 | n/a | n/a | n/a | 82.2* | 20.5* | PASS* |
| Н | 3 | none | 251 | 1692.60 | 48.58 | 16.70 | n/a | n/a | n/a | 82.2* | 33.6* | PASS* |
| Н | 3 | none | 251 | 2546.40 | 52.61 | 40.20 | n/a | n/a | n/a | 82.2* | 29.6* | PASS* |
| Н | 3 | none | 251 | 3395.20 | 46.82 | 39.60 | n/a | n/a | n/a | 82.2* | 35.4* | PASS* |
| V | 3 | none | 128 | 1648.44 | 57.61 | 26.00 | n/a | n/a | n/a | 82.2* | 24.6* | PASS* |
| V | 3 | none | 128 | 2472.60 | 77.77 | 65.70 | n/a | n/a | n/a | 82.2* | 04.5* | PASS* |
| V V | 3 | none | 128 | 2472.37 | 40.77 | 28.70 | n/a | n/a | n/a | 82.2* | 41.5* | PASS* |
| v V | 3 | none | 128 190 | 3296.80 1674.11 | 46.10 59.35 | 39.20 27.60 | n/a n/a | n/a n/a | n/a n/a | 82.2* 82.2* | 36.1* 22.9* | PASS* PASS* |
| v V | 3 | none | 190 | 1673.98 | 40.05 | 8.30 | n/a | n/a | n/a n/a | 82.2* | 42.2* | PASS PASS* |
| V | 3 | none | 190 | 2511.00 | 58.61 | 46.40 | n/a | n/a | n/a | 82.2* | 23.6* | PASS* |
| v | 3 | none | 190 | 3346.40 | 46.26 | 39.20 | n/a | n/a | n/a | 82.2* | 36.0* | PASS* |
| v V | 3 | none | 251 | 1697.83 | 67.42 | 35.50 | n/a | n/a | n/a | 82.2* | 14.8* | PASS* |
| v | 3 | none | 251 | 1697.84 | 49.32 | 17.40 | n/a | n/a | n/a | 82.2* | 32.9* | PASS* |
| v | 3 | none | 251 | 2546.45 | 56.11 | 43.70 | n/a | n/a | n/a | 82.2* | 26.1* | PASS* |

| Company: | Itror | Itronix Corporation FCC ID: KBCIX100XAC860 IC ID: 1943A-IX100Xf | | 1943A-IX100Xf | | RONIX® | | | |
|---------------|------------------|---|------------|------------------|-------------------------------|------------------|---------------------------|---------|---------------------|
| Model(s): | (s): IX100XAC860 | | GSM/G | SPRS/EDGE/UI | MTS PCMCIA Modem ii | nstalled in I) | | | AL DYNAMICS COMPANY |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|--------|---------------------------|------------------------------|---|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| h | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS | S-132, RSS-133 | |
| es Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | CC Lab Registration #714830 Industry Canada Lab Fil | | |

| | C | elltech | Project Number: 744 Company: Itronix Product: IX100X AC860 | | | | | Standard: Test Start Date: Test End Date: | | FCC24.238 15-Jun-06 15-Jun-06 | | |
|----------|----------|------------------------------|--|-----------|-----------------------------|---|--------------------------|---|---------------------------|-------------------------------------|--------|-----------|
| Polarity | Distance | Substitution Antenna Type | Carrier Channel | Frequency | Corrected Field Strength | Maximized SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | EIRP Emission Level | Limit | Margin | Pass/Fail |
| | m | | | MHz | dBuV/m | dBuV | dBm | dBi | dBm | dBm or dBuV/m* | dB | |
| Н | 3 | none | 512 | 3700.70 | 50.90 | 42.40 | n/a | n/a | n/a | 82.2* | 31.3* | PASS* |
| Н | 3 | none | 512 | 5546.55 | 53.80 | 39.80 | n/a | n/a | n/a | 82.2* | 28.4* | PASS* |
| Н | 3 | none | 512 | 7401.05 | 50.60 | 40.08 | n/a | n/a | n/a | 82.2* | 31.6* | PASS* |
| Н | 3 | none | 661 | 3760.00 | 50.29 | 41.70 | n/a | n/a | n/a | 82.2* | 31.9* | PASS* |
| Н | 3 | none | 661 | 5637.72 | 53.54 | 39.40 | n/a | n/a | n/a | 82.2* | 28.7* | PASS* |
| Н | 3 | none | 661 | 7520.01 | 53.73 | 42.83 | n/a | n/a | n/a | 82.2* | 28.5* | PASS* |
| Н | 3 | none | 810 | 3819.35 | 50.82 | 41.90 | n/a | n/a | n/a | 82.2* | 31.4* | PASS* |
| Н | 3 | none | 810 | 5729.40 | 53.61 | 39.60 | n/a | n/a | n/a | 82.2* | 28.6* | PASS* |
| Н | 3 | none | 810 | 7639.30 | 51.50 | 40.49 | n/a | n/a | n/a | 82.2* | 30.7* | PASS* |
| V | 3 | none | 512 | 3700.32 | 54.31 | 45.80 | n/a | n/a | n/a | 82.2* | 27.9* | PASS* |
| V | 3 | none | 512 | 5548.21 | 54.14 | 40.10 | n/a | n/a | n/a | 82.2* | 28.1* | PASS* |
| V | 3 | none | 512 | 7400.95 | 52.68 | 42.16 | n/a | n/a | n/a | 82.2* | 29.5* | PASS* |
| V | 3 | none | 661 | 3760.12 | 55.59 | 47.00 | n/a | n/a | n/a | 82.2* | 26.6* | PASS* |
| V | 3 | none | 661 | 5642.08 | 53.83 | 39.70 | n/a | n/a | n/a | 82.2* | 28.4* | PASS* |
| V | 3 | none | 661 | 7520.00 | 57.09 | 46.19 | n/a | n/a | n/a | 82.2* | 25.1* | PASS* |
| ۷ | 3 | none | 810 | 3819.63 | 55.63 | 46.70 | n/a | n/a | n/a | 82.2* | 26.6* | PASS* |
| V | 3 | none | 810 | 5763.61 | 56.59 | 42.40 | n/a | n/a | n/a | 82.2* | 25.6* | PASS* |
| V | 3 | none | 810 | 7639.50 | 51.59 | 40.58 | n/a | n/a | n/a | 82.2* | 30.6* | PASS* |

greater than 20 dB below the theoretical limit and substitutions were not made.

| Company: | ltror | tronix Corporation FCC ID: KBCIX100XAC860 IC ID: 1943A-IX100Xf | | ITRONIX [®] | | | | |
|-----------------|----------------------|--|----------------------|---------------------------------|------------------|---------------------------|---------|---------------------|
| Model(s): | odel(s): IX100XAC860 | | I/GPRS/EDGE/U | MTS PCMCIA Modem i | nstalled in D | (100X Handheld PC | | AL DYNAMICS COMPANY |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|-------|---------------------------|------------------------------|--------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | E Industry Canada RSS-132, RS | | |
| s Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

| l | Ce | litech It types that it | Project Number: 744 Company: Itronix Product: IX100X AC860 | | | | Standard: Test Start Date: Test End Date: | | FCC22.917 16-Jun-06 16-Jun-06 | | | |
|----------|----------|------------------------------|--|--------------------|-----------------------------|---|---|-----------------|-------------------------------------|----------------|----------------|----------------|
| Polarity | Distance | Substitution Antenna Type | Carrier Channel | Frequency | Corrected Field Strength | Maximized SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | ERP Emission Level | Limit | Margin | Pass/Fail |
| | m | | | MHz | dBuV/m | dBuV | dBm | dBi | dBm | dBm or dBuV/m* | dB | |
| Н | 3 | none | 4132 | 1652.80 | 59.23 | 27.60 | n/a | n/a | n/a | 84.4* | 25.1* | PASS* |
| Н | 3 | none | 4132 | 2474.40 | 68.68 | 56.60 | n/a | n/a | n/a | 84.4* | 15.7* | PASS* |
| н | 3 | none | 4132 | 3305.60 | 38.91 | 32.00 | n/a | n/a | n/a | 84.4* | 45.5* | PASS* |
| Н | 3 | none | 4182 | 1672.80 | 59.15 | 27.40 | n/a | n/a | n/a | 84.4* | 25.2* | PASS* |
| Н | 3 | none | 4182 | 2509.20 | 46.00 | 33.80 | n/a | n/a | n/a | 84.4* | 38.4* | PASS* |
| Н | 3 | none | 4182 | 3345.60 | 39.16 | 32.10 | n/a | n/a | n/a | 84.4* | 45.2* | PASS* |
| Н | 3 | none | 4233 | 1693.20 | 58.99 | 27.10 | n/a | n/a | n/a | 84.4* | 25.4* | PASS* |
| Н | 3 | none | 4233 | 2539.80 | 46.38 | 34.00 | n/a | n/a | n/a | 84.4* | 38.0* | PASS* |
| Н | 3 | none | 4233 | 3386.40 | 39.22 | 32.00 | n/a | n/a | n/a | 84.4* | 45.2* | PASS* |
| V | 3 | none | 4132 | 1655.20 | 59.45 | 27.80 | n/a | n/a | n/a | 84.4* | 24.9* | PASS* |
| V | 3 | none | 4132 | 2479.60 | 62.49 | 50.40 | n/a | n/a | n/a | 84.4* | 21.9* | PASS* |
| V | 3 | none | 4132 | 2479.82 | 40.19 | 28.10 | n/a | n/a | n/a | 84.4* | 44.2* | PASS* |
| V | 3 | none | 4132 | 3305.60 | 39.71 | 32.80 | n/a | n/a | n/a | 84.4* | 44.7* | PASS* |
| V | 3 | none | 4182 | 1670.52 | 52.13 | 20.40 | n/a | n/a | n/a | 84.4* | 32.2* | PASS* |
| V | 3 | none | 4182 | 2509.20 | 47.80 | 35.60 | n/a | n/a | n/a | 84.4* | 36.6* | PASS* |
| V | 3 | none | 4182 | 3345.60 | 39.06 | 32.00 | n/a | n/a | n/a | 84.4* | 45.3* | PASS* |
| V | 3 | none | 4233 | 1691.32 | 56.97 | 25.10 | n/a | n/a | n/a | 84.4* | 27.4* | PASS* |
| V V | 3 | none | 4233 4233 | 2539.80 3386.40 | 47.98 39.52 | 35.60 32.30 | n/a | n/a | n/a | 84.4* | 36.4* 44.9* | PASS* PASS* |

| Company: | Itron | hix Corporation FCC ID: KBCIX100XAC860 IC ID: 1943A-IX100Xf | | ITRONIX | | | | |
|-----------------|-----------------------|---|------------------|-------------------------------|------------------|----------------------------|---------|---------------------|
| Model(s): | Model(s): IX100XAC860 | | GPRS/EDGE/U | MTS PCMCIA Modem ii | nstalled in I) | | | AL DYNAMICS COMPANY |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|-----|---------------------------|--|--------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| 1 | Test Standard(s): | FCC 47 CFR §2, §22H, §24E Industry Canada RSS-13 | | S-132, RSS-133 | |
| Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

| Celltech | | Project Number: 744 Company: Itronix Product: IX100X AC860 | | | Standard: Test Start Date: Test End Date: | | FCC24.238 16-Jun-06 16-Jun-06 | | | | | |
|----------|----------|--|-----------------|-----------|---|---|-------------------------------------|-----------------|---------------------------|----------------|--------|-----------|
| Polarity | Distance | Substitution Antenna Type | Carrier Channel | Frequency | Corrected Field Strength | Maximized SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | EIRP Emission Level | Limit | Margin | Pass/Fail |
| | m | | | MHz | dBuV/m | dBuV | dBm | dBi | dBm | dBm or dBuV/m* | dB | 1 |
| Н | 3 | none | 9262 | 3706.53 | 41.88 | 33.40 | n/a | n/a | n/a | 82.2* | 40.3* | PASS* |
| Н | 3 | none | 9262 | 5557.20 | 45.34 | 31.10 | n/a | n/a | n/a | 82.2* | 36.9* | PASS* |
| Н | 3 | none | 9262 | 7409.60 | 49.54 | 38.99 | n/a | n/a | n/a | 82.2* | 32.7* | PASS* |
| Н | 3 | none | 9400 | 3757.98 | 44.79 | 36.20 | n/a | n/a | n/a | 82.2* | 37.4* | PASS* |
| Н | 3 | none | 9400 | 5640.00 | 45.25 | 31.10 | n/a | n/a | n/a | 82.2* | 37.0* | PASS* |
| Н | 3 | none | 9400 | 7520.00 | 50.16 | 39.26 | n/a | n/a | n/a | 82.2* | 32.1* | PASS* |
| Н | 3 | none | 9538 | 3812.92 | 48.47 | 39.60 | n/a | n/a | n/a | 82.2* | 33.8* | PASS* |
| Н | 3 | none | 9538 | 5722.50 | 46.19 | 32.20 | n/a | n/a | n/a | 82.2* | 36.0* | PASS* |
| Н | 3 | none | 9538 | 7630.00 | 49.77 | 38.77 | n/a | n/a | n/a | 82.2* | 32.5* | PASS* |
| V | 3 | none | 9262 | 3706.26 | 46.58 | 38.10 | n/a | n/a | n/a | 82.2* | 35.6* | PASS* |
| V | 3 | none | 9262 | 5557.20 | 45.44 | 31.20 | n/a | n/a | n/a | 82.2* | 36.8* | PASS* |
| V | 3 | none | 9262 | 7409.60 | 50.16 | 39.61 | n/a | n/a | n/a | 82.2* | 32.1* | PASS* |
| ۷ | 3 | none | 9400 | 3757.56 | 53.99 | 45.40 | n/a | n/a | n/a | 82.2* | 28.2* | PASS* |
| V | 3 | none | 9400 | 5640.00 | 44.85 | 30.70 | n/a | n/a | n/a | 82.2* | 37.4* | PASS* |
| V | 3 | none | 9400 | 7520.00 | 50.11 | 39.21 | n/a | n/a | n/a | 82.2* | 32.1* | PASS* |
| V | 3 | none | 9538 | 3812.85 | 58.07 | 49.20 | n/a | n/a | n/a | 82.2* | 24.2* | PASS* |
| V | 3 | none | 9538 | 5722.50 | 45.69 | 31.70 | n/a | n/a | n/a | 82.2* | 36.5* | PASS* |
| V | 3 | none | 9538 | 7630.00 | 49.93 | 38.93 | n/a | n/a | n/a | 82.2* | 32.3* | PASS* |

| Company: | Company: Itronix Corporation | | tion | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITI | RONIX® |
|-------------------------|------------------------------|-------------|---|------------------|-------------------------------|----------------------------|----------------------------|---------|---------------|
| Model(s): IX100XAC860 G | | GSM/G | GPRS/EDGE/UMTS PCMCIA Modem installed in IX100X Handheld PC | | | A GENERAL DYNAMICS COMPANY | | | |
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| Test Report Serial No.: | est Report Serial No.: 042406KBC-T744-E24GWC | | Sept. 21, 2006 | |
|---------------------------|--|--------------------------------|------------------|--|
| Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E Industry Canad | | RSS-132, RSS-133 | |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

D.10 PASS/FAIL

In reference to the results outlined in D.9, the DUT passes the requirements as stated in the reference standards as follows:

FCC 22.917 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

FCC 24.238 (a): Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

D.11 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Spenser Watton

Spencer Watson EMC Manager Celltech Labs Inc.

July 18, 2006 Date

| Company: | Itron | nix Corpora | tion | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX® |
|-------------------------|-------|-------------|-------------|------------------|-------------------------------|------------------|---------------------------|---------|---------------------|
| Model(s): IX100XAC860 | | XAC860 | GSM/C | SPRS/EDGE/UI | MTS PCMCIA Modem in | nstalled in I) | | | AL DYNAMICS COMPANY |
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| Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|---------------------------|------------------------------|----------------------------------|----------------|--|
| Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

Appendix E - Maximum Permissible Exposure Calculation

| E.1 REFERENCES | | | | | | | |
|---------------------------------|--|--|--|--|--|--|--|
| Normative Reference Standard | FCC CFR 47§1.1310 IEEE Std C95.1-1999 | | | | | | |
| Procedure Reference | FCC CFR 47§2.1091 | | | | | | |

| E.2 LIMITS | | | | | | | | |
|------------------------------|--------------------|---------------------------|--|--|--|--|--|--|
| | Frequency | Power Density | | | | | | |
| FCC CFR 47§1.1310 Table 1(b) | 300 - 1500 MHz | f/1500 mW/cm ² | | | | | | |
| | 1500 - 100,000 MHz | 1.0 mW/cm ² | | | | | | |

| E.3 ENVIRONMENTAL CONDITIONS | | | | | | |
|------------------------------|----|--|--|--|--|--|
| Temperature | na | | | | | |
| Humidity | na | | | | | |
| Barometric Pressure | na | | | | | |

| E.4 MEASUREMENT EQUIPMENT SETUP | | | | | | | |
|--------------------------------------|--|--|--|--|--|--|--|
| MEASUREMENT EQUIPMENT CONNECTIONS | The results described herein were determined by calculations, so no measurement equipment was used. The power measurements for each radio used in these calculations were made with the system transmitting as described in Appendix B of this report. | | | | | | |
| MEASUREMENT EQUIPMENT SETTINGS | n/a | | | | | | |

| E.5 DUT OPER/ | E.5 DUT OPERATING DESCRIPTION | | | | | | | | |
|-------------------|---|--|--|--|--|--|--|--|--|
| Dual-Band GPRS | The maximum GPRS RF conducted output power in each band used for these calculations was measured on Channel 251 for Cellular and Channel 661 for PCS. | | | | | | | | |
| Dual-Band EDGE | The maximum EDGE RF conducted output power in each band used for these calculations was measured on Channel 190 for Cellular and Channel 661 for PCS. | | | | | | | | |
| Dual-Band UMTS | The maximum UMTS RF conducted output power in each band used for these calculations was measured on Channel 4233 for Cellular and Channel 9400 for PCS. | | | | | | | | |

| Company: | y: Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | IT | RONIX® |
|-------------------------|------------------------|----------------------|------------------|-------------------------------|------------------|---------------------------|---------|---------------------|
| Model(s): | Model(s): IX100XAC860 | | GPRS/EDGE/U | MTS PCMCIA Modem in | nstalled in I) | | | AL DYNAMICS COMPANY |
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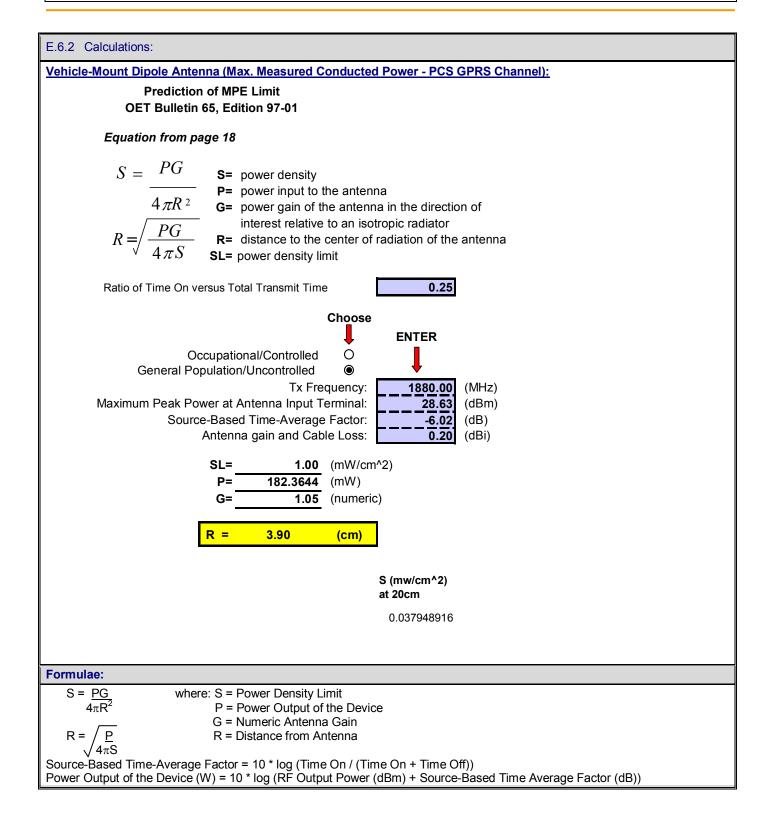
| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|--------|---------------------------|------------------------------|----------------------------------|----------------|--|
| h | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| es Lab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

| E.6 TEST RESULTS | |
|--|---|
| E.6.1 Calculations: | |
| | nna (Max. Measured Conducted Power - Cellular GPRS Channel): |
| | of MPE Limit |
| OEI Bulletin | 65, Edition 97-01 |
| Equation from pa | ige 18 |
| $S = \frac{PG}{4\pi R^2}$ $R = \sqrt{\frac{PG}{4\pi S}}$ | interest relative to an isotropic radiator R= distance to the center of radiation of the antenna SL= power density limit |
| Ratio of Time On ve | ersus Total Transmit Time 0.25 |
| General Pop Maximum Peak Pov Source | $SL = \underbrace{0.57}{422.6102} (mW)$ $R = 8.76 (cm)$ $ENTER$ $ENTER$ $ENTER$ $METER$ $METER$ $METER$ MHZ |
| | S (mw/cm^2) at 20cm 0.108442464 |
| Formulae: | |
| | e: S = Power Density Limit |
| $4\pi R^2$ | P = Power Output of the Device |
| | G = Numeric Antenna Gain |
| $R = / \frac{P}{4\pi S}$ | R = Distance from Antenna |
| | Factor = 10 * log (Time On / (Time On + Time Off)) |
| | W) = 10 * log (RF Output Power (dBm) + Source-Based Time Average Factor (dB)) |

| Company: | Itron | ix Corpora | ition | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITRONIX | | |
|--|-------|------------|-------|-------------|---------------------|---------------------------|-------------------|----------------------------|--|--|
| Model(s): | IX100 | XAC860 | GSM/C | SPRS/EDGE/U | MTS PCMCIA Modem in | nstalled in IX | (100X Handheld PC | A GENERAL DYNAMICS COMPANY | | |
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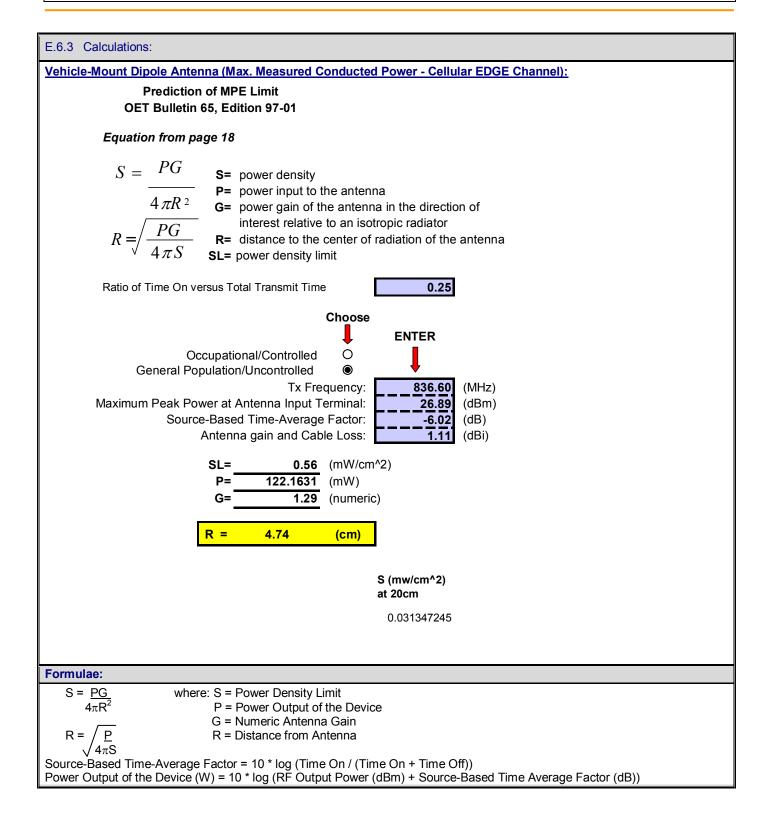
| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|----|---------------------------|------------------------------|----------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| ab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |



| Company: | ltror | ronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | IT | RONIX |
|-----------------|---|-------------------|------------|---------------------|-------------------------------|------------------|---------------------------|---------|---------------|
| Model(s): | IX100XAC860 GSM/ | | PRS/EDGE/U | MTS PCMCIA Modem in | A GENERAL DYNAMICS COMPANY | | | | |
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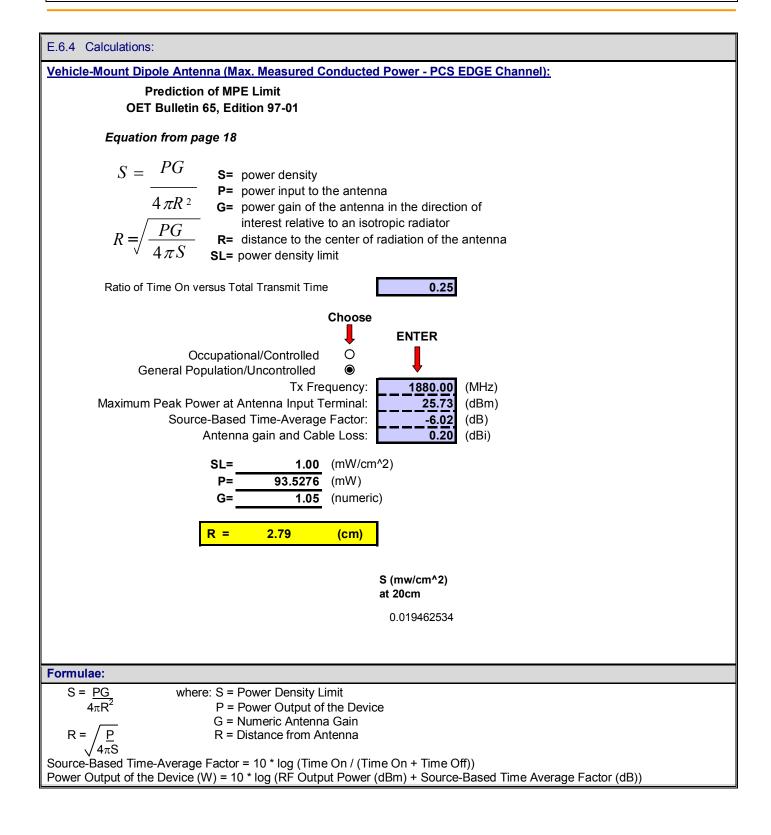
| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|---|---------------------------|------------------------------|----------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: Revision | | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| b | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #387 | | |



| Company: | Itron | Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | IT | RONIX® |
|---|-------|---------------------|--|------------------|-------------------------------|----------------------------|----------------------------|---------|---------------|
| Model(s): | IX100 | | | SPRS/EDGE/U | MTS PCMCIA Modem in | A GENERAL DYNAMICS COMPANY | | | |
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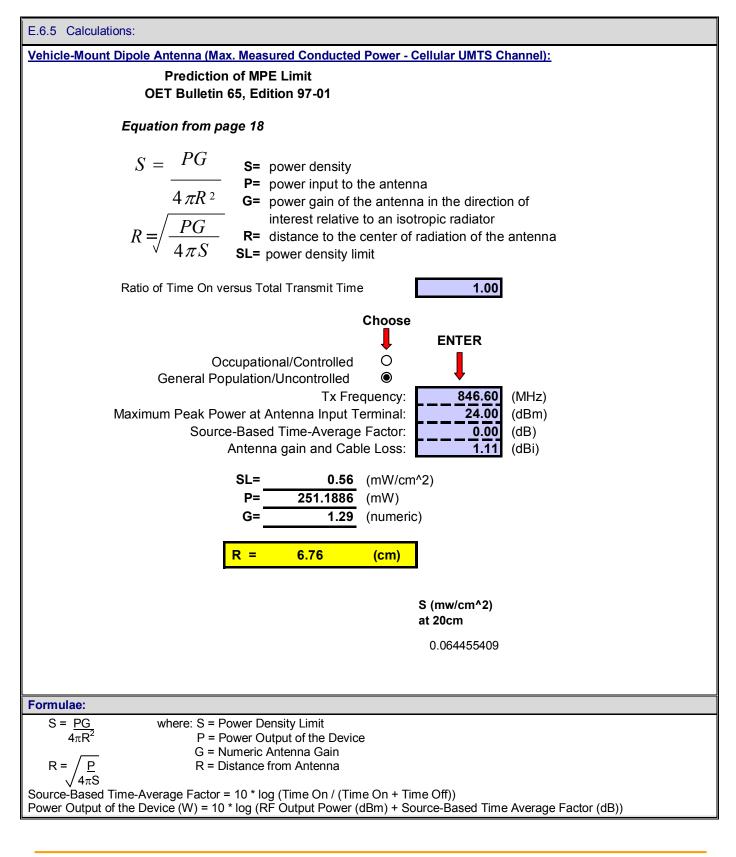
| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|----|---------------------------|------------------------------|----------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| ab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |



| Company: | Itron | Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX® | |
|---|-------|---------------------|--|------------------|-------------------------------|------------------|---------------------------|---------|---------------|--|
| Model(s): | IX100 | | | PRS/EDGE/U | MTS PCMCIA Modem in | | AL DYNAMICS COMPANY | | | |
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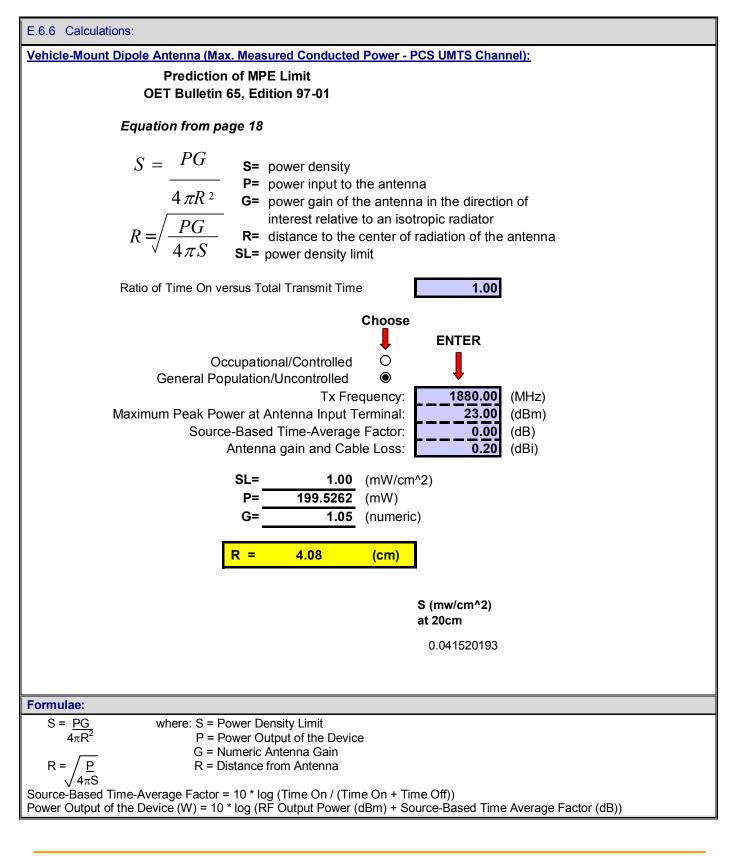
| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|----|---------------------------|------------------------------|----------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: Revision | | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| ab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |



| Company: | Itron | ronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX® |
|---|-------|-------------------|--|------------------|-------------------------------|------------------|---------------------------|---------|---------------------|
| Model(s): | IX100 | IX100XAC860 GSM/0 | | PRS/EDGE/U | MTS PCMCIA Modem in | nstalled in IX | (100X Handheld PC | | AL DYNAMICS COMPANY |
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|----|---------------------------|------------------------------|----------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| ab | Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #387 | | |



| Company: | Itron | ix Corpora | tion | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | ITI | RONIX® |
|-----------------|----------|------------------|-------------|------------------|-------------------------------|------------------|---------------------------|---------|---------------------|
| Model(s): | IX100 | X100XAC860 GSM/0 | | PRS/EDGE/U | MTS PCMCIA Modem in | nstalled in IX | | | AL DYNAMICS COMPANY |
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|----|---------------------------|------------------------------|----------------------------------|----------------|--|
| | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| ab | Test Lab Registration(s): | FCC Lab Registration #714830 | 0 Industry Canada Lab File #3874 | | |

E.7 PASS/FAIL

In reference to the results outlined in E.9 the DUT passes the requirements as stated in the reference standards as follows: 1) The DUT must comply with the minimum spacing requirement of 20 cm to ensure an exposure of not more than f/1500 mW/cm² for frequencies between 300 and 1500 MHz and 1 mW/cm² for frequencies between 1500 and 100,000 MHz.

E.8 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Spencer Watton

Spencer Watson EMC Manager Celltech Labs Inc.

> July 18, 2006 Date

| | Company: | Itronix Corporation | | FCC ID: | KBCIX100XAC860 | IC ID: | 1943A-IX100Xf | | RONIX® | |
|---|-----------------------------------|----------------------------|--|-------------|------------------|-------------------------------|------------------|---------------------------|---------|---------------------|
| l | Model(s): | Model(s): IX100XAC860 GSM/ | | | SPRS/EDGE/U | MTS PCMCIA Modem in | nstalled in I) | | | AL DYNAMICS COMPANY |
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| | Test Report Serial No.: | 042406KBC-T744-E24GWC | Report Issue Date: | Sept. 21, 2006 | |
|-----|---------------------------|--|----------------------------------|----------------|--|
| 1 | Date(s) of Evaluation: | April 25 - June 16, 2006 | Report Revision No.: | Revision 1.1 | |
| | Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| Lab | Test Lab Registration(s): | FCC Lab Registration #714830 Industry Canada Lab File #3 | | | |

END OF DOCUMENT

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|-----------------|----------------------------|---------------------|--------------------|-------------------------------|------------------|----------------------------|---------|---------------------|
| Model(s): | Model(s): IX100XAC860 GSM/ | | | MTS PCMCIA Modem in | nstalled in I) | | | AL DYNAMICS COMPANY |
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