

| Test Report S/N: | 100504KBC-T566-E90M |
|------------------|------------------------------|
| Test Date(s): | September 03-20, 2004 |
| Test Type: | FCC Part 90 EMC Measurements |

DECLARATION OF COMPLIANCE FCC PART 90 EMC MEASUREMENTS

Test Lab

CELLTECH LABS INC.

Testing and Engineering Services

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Applicant Information

ITRONIX CORPORATION

801 South Stevens Street Spokane, WA 99204 United States

FCC IDENTIFIER: KBCIX260PNL3BM390 Model(s): IX260PNL3BM390

FCC Rule Part(s): 47 CFR §90, §2

Test Procedure(s): FCC 47 CFR §90, §2; ANSI TIA/EIA-603-A-2002
Device Classification: Licensed Non-Broadcast Station Transmitter (TNB)

Device Description: Rugged Laptop PC with Wavenet BM3-900M Mobitex Radio Modem & Dipole Antenna

(co-located with Senao NL-3054MP 802.11b/g WLAN & Internal Dual Surface-Mount Antenna)

including (3) Mobile Vehicle-Mount Antennas and Vehicle Cradle

Tx Frequency Range: 896.0 - 901.0 MHz Rx Frequency Range: 935.0 - 940.0 MHz

Max. ERP Measured: 2.87 Watts (34.58 dBm) - Itronix Swivel Dipole Antenna Model: IX260+

0.668 Watts (28.25 dBm) - MaxRad Vehicle-Mount Antenna Model: Z563 1.33 Watts (31.25 dBm) - MaxRad Vehicle-Mount Antenna Model: Z567 1.88 Watts (32.74 dBm) - MaxRad Vehicle-Mount Antenna Model: Z573

Max. Conducted Power Tested: 33.2 dBm (2.09 Watts)

Max. Duty Cycle Tested: 30 % (Source-Based Time-Averaged)

Source-Based Time-Aver. Power: 28.0 dBm (Conducted)

Modulation Type: GMSK
Emission Designator(s): 12K0F1D
Frequency Tolerance(s): ± 0.00015 %

Antenna Type(s) Tested: Itronix IX260+ External Swivel Dipole (Mobitex)

MaxRad Z563 Vehicle-Mount - Unity Gain (Mobitex)
MaxRad Z567 Vehicle-Mount - 5 dBd Gain (Mobitex)
MaxRad Z573 Vehicle-Mount - 5 dBd Gain (Mobitex)
11.1 V Lithium.ion Battery 6.0 Ab (Model: A2121-2)

Power Source(s) Tested: 11.1 V Lithium-ion Battery, 6.0 Ah (Model: A2121-2)

12 V Vehicle Battery (for Vehicle Cradle)

This mobile 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 §90, §2, and ANSI TIA/EIA-603-A-2002.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made 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.

This test report shall not be reproduced partially, or in full, without the prior written approval of Celltech Labs Inc. The results and statements contained in this report pertain only to the device(s) evaluated.

Duane M. Friesen EMC Manager Celltech Labs Inc.



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FCC PART 90 EMC MEASUREMENT REPORT

1.1 SCOPE

This report describes the measurements made and results collected during the Electromagnetic emissions testing of the Itronix Corporation IX260+ Rugged Laptop PC incorporating the internal Wavenet BM3-900M Mobitex Radio Modem with external swivel dipole antenna, (3) vehicle-mount antennas, and vehicle cradle. Co-located within the IX260+ Laptop PC is the Senao NL-3054MP 802.11b/g 2.4 GHz DSSS WLAN Mini-PCI Card and RangeStar internal dual surface-mount antenna (co-located transmitters do not transmit simultaneously). The measurement results were applied against the 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 90, and 2.

2.1 GENERAL INFORMATION / DEVICE DESCRIPTION

| APPLICANT | ITRONIX CORPORATION | | | 8 | 801 South Stevens Street, Spokane, WA 99204 | | | | |
|--|--|---------------------------------|--------|--------------|---|-------------|----------------------|-----------|---------|
| FCC IDENTIFIER | KBCIX260PNL3BM390 | | | | | | | | |
| Model(s) | IX260PNL3BM390 | | | | | | | | |
| Coriol No. (a) | ZZGEG4196ZZ6470 Production Unit IX260+ | | | | Laptop F | Laptop PC | | | |
| Serial No.(s) | BM315099 | WT440 | | Prod | duction Unit | | Mobitex | Radio Mo | dem |
| Device Type | Exte | | | | net BM3-900N Vehicle-Mou | | | | |
| Co-located Transmitter(s) | Sena | o NL-3054 | MP 80 | 2.11b/g WLA | N with Interna | l Dual Surl | face-Mount A | ntenna | |
| Transmit Type | Single Transn | nit Only (Mo | bitex | & WLAN co-l | ocated transn | nitters do | not transmit | simultane | ously) |
| FCC Rule Part(s) | | 47 CFR §90, §2 | | | | | | | |
| FCC Classification | Licensed Non-Broadcast Station Transmitter (TNB) | | | | | | | | |
| Tx Frequency Range | 896.0 - 901.0 MHz | | | | | | | | |
| Rx Frequency Range | 935.0 - 940.0 MHz | | | | | | | | |
| | Model Number | Type / Description | | | Max. ERP Measured | | | | |
| | Itronix IX260+ | External Swivel Dipole | | | 2.87 | W | 34.58 | dBm | |
| Antenna Type(s) Tested | MaxRad Z563 | Unity Gain Mobile Vehicle-Mount | | | 0.668 | W | 28.25 | dBm | |
| | MaxRad Z567 | 5 dBd | d Gain | Mobile Vehic | ele-Mount | 1.33 | W | 31.25 | dBm |
| | MaxRad Z573 | 5 dBd | d Gain | Mobile Vehic | le-Mount | 1.88 | W | 32.74 | dBm |
| Max. RF Conducted Output Power Measured | 33.2 dBm Peak | Mobitex | Max. | Source-Base | ed Time-Avera | aged Cond | lucted Power: | 28.0 d | Bm Peak |
| Max. Duty Cycle Tested | | 30 % | | | | Source-Ba | ased Time-Av | eraged | |
| Emission Designator(s) | | | | | 12K0F1D | | | | |
| Frequency Tolerance | | | | ± | 0.00015 % | | | | |
| Modulation | GMSK | | | | | | | | |
| Power Source(s) Tested | Lithium-ior | Battery | | 11 | .1 V, 6.0 Ah | | Model: A2121-2 | | |
| rower Source(s) residu | Vehicle E | Battery | | | 12 V | | (For Vehicle Cradle) | | |

| Applicant: | Itronix Corporation | Model: | IX260PNL3BM390 | FCC ID: | KBCIX260PNL3 | BM390 |
|--|---------------------|--------|----------------|---------|--------------|---------|
| Rugged Laptop PC with internal Wavenet BM3-900M Mobitex Radio Modem & WLAN (802.11b/g) | | | | | | |
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| Test Type: | FCC Part 90 EMC Measurements |

3.1 TEST EQUIPMENT LIST

| Equipment Type | Model | Serial No. | Calibration Due Date |
|----------------------------------|---|------------|----------------------|
| HP Signal Generator | 8648D (9kHz-4.0GHz) | 3847A00611 | April 2005 |
| Rohde & Schwarz Signal Generator | SMR 20 (10MHz-40GHz) | 100104 | April 2005 |
| Gigatronics Power Meter | 8651A | 8650137 | April 2005 |
| Gigatronics Power Meter | 8652A | 1835267 | April 2005 |
| Gigatronics Power Sensor | 80701A (0.05-18GHz) | 1833535 | April 2005 |
| Gigatronics Power Sensor | 80701A (0.05-18GHz) | 1833542 | April 2005 |
| Gigatronics Power Sensor | 80701A (0.05-18GHz) | 1834350 | April 2005 |
| Amplifier Research Power Amp. | 5S1G4 (5W, 800MHz-4.2GHz) | 26235 | N/A |
| Amplifier Research Power Amp. | 10W1000C (0.5 – 1 GHz) | 27887 | N/A |
| Microwave System Amplifier | HP 83017A (0.5-26.5GHz) | 3123A00587 | N/A |
| Network Analyzer | HP 8753E (30kHz-3GHz) | US38433013 | April 2005 |
| Frequency Counter | HP 53181A (3GHz) | 3736A05175 | April 2005 |
| DC Power Supply | HP E3611A | KR83015294 | N/A |
| Multi-Device Controller | EMCO 2090 | 9912-1484 | N/A |
| Mini Mast | EMCO 2075 | 0001-2277 | N/A |
| Turntable | EMCO 2080-1.2/1.5 | 0002-1002 | N/A |
| Double Ridged Horn Antenna | ETS 3115 (1-18GHz) TX Substitution Antenna (Horn SN6267) | 6267 | Oct 2004 |
| Double Ridged Horn Antenna | ETS 3115 (1-18GHz) | 6276 | Oct 2004 |
| Standard Gain Horn Antenna | ETS 3160-09 TX Substitution Antenna (3160-09) | 9810-1123 | N/A |
| Standard Gain Horn Antenna | ETS 3160-09 | 1263 | N/A |
| Bilog Antenna | Schaffner CBL6111A | 1607 | Jan 2005 |
| Roberts Dipole Antenna | 3121C-DB4 TX Substitution Antenna (B_3121C) | 0003-1494 | Dec 2004 |
| Roberts Dipole Antenna | 3121C-DB4 | 0003-1498 | Dec 2004 |
| Spectrum Analyzer | HP 8594E | 3543A02721 | April 2005 |
| Spectrum Analyzer | HP E4408B | US39240170 | Dec 2004 |
| Shielded Screen Room | Lindgren R.F. 18W-2/2-0 | 16297 | N/A |
| Environmental Chamber | ESPEC ECT-2 (Temperature/Humidity) | 0510154-B | Feb 2005 |
| Directional Coupler | Amplifier Research DC7154 (0.8-4.2 GHz) 26197 | | N/A |
| Directional Coupler | Pasternack PE2214-20 | 00078 | N/A |
| High Pass Filter | Microwave Circuits HIG318G1 0001DC0020 | | N/A |
| High Pass Filter | Microwave Circuits H02G18G1 | 0001DC0020 | N/A |
| 30 dB Attenuator | Pasternack PE7019-30 | 00065 | N/A |

| Applicant: | Itronix Corporation | Model: | IX260PNL3BM390 | FCC ID: | KBCIX260PNL3 | BM390 | |
|--|--|--------|----------------|---------|--------------|-------|--|
| Rugged Laptop PC with internal Wavenet BM3-900M Mobitex Radio Modem & WLAN (802.11b/g) | | | | | | IX. | |
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APPENDIX A - RF OUTPUT POWER MEASUREMENT - §2.1046

A.1. MEASUREMENT PROCEDURE

The peak conducted power levels were measured at the Wavenet BM3-900M Mobitex radio modem RF port with 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 before the sensor input. The transmitter terminal was coupled to the power meter and the DUT was placed in test mode using the Wavenet BM3-900M Mobitex test software installed in the IX260+ Laptop PC with the internal transmitter in modulated carrier mode (30% duty cycle) at a full rated power. All subsequent tests were performed using the same power measurement procedures.

A.2. MEASUREMENT DATA

| Conducted Power Measurements | | | | | |
|----------------------------------|------|--|--|--|--|
| Frequency Peak Power (MHz) (dBm) | | | | | |
| 896.0 | 33.2 | | | | |
| 901.0 | 33.2 | | | | |

| Applicant: | Itronix Corporation | Model: | IX260PNL3BM390 | FCC ID: | KBCIX260PNL | 3BM390 |
|--|---------------------|--------|----------------|---------|-------------|---------|
| Rugged Laptop PC with internal Wavenet BM3-900M Mobitex Radio Modem & WLAN (802.11b/g) | | | | | | |
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| Test Type: | FCC Part 90 EMC Measurements |

APPENDIX B - EFFECTIVE RADIATED POWER OUTPUT - §90.635; §2.1046

B.1. MEASUREMENT PROCEDURE

ERP measurements were performed using the Signal Substitution Method in accordance with ANSI TIA/EIA-603-A-2002 on a 3-meter open area test site. The DUT was placed in test mode using the Wavenet BM3-900M Mobitex test software installed in the IX260+ Laptop PC with the internal transmitter in modulated carrier mode (30% duty cycle) at a full rated power. The DUT was placed on a turntable 3 meters from the receive antenna. For the swivel dipole evaluation, the DUT was placed on a Styrofoam support at the center of the turntable, 1 meter above the ground plane. For the vehicle-mount antenna evaluations, the antenna was fixed on a 50 cm x 50 cm ground plane on a Styrofoam support placed on a wooden table, at a distance of 3 meters from the biconilog receive antenna, and connected to the vehicle cradle via a 17-foot LMR-195 cable representing a typical vehicle-mount installation. The IX260+ Laptop PC was installed in the vehicle cradle and placed on the wooden table. The maximum field intensity was determined by rotating the DUT approximately 360 degrees and changing the height of the biconilog receive antenna from 1 to 4 meters. Once the maximum emission was found, the spectrum analyzer was set to peak hold and the uncorrected emission value recorded for each of the low, mid and high channels tested. The DUT was then substituted with a dipole antenna. A signal, simulating the DUT emission was generated, amplified, and fed through a directional coupler to the substitution antenna. The height and direction of the receive antenna as well as the direction of the substitution dipole was adjusted for a maximum received signal. The power applied to the dipole was then adjusted to give the same field strength reading as previously recorded for the DUT and the power at the forward coupler port recorded. The substitution antenna was then replaced with a calibrated power sensor, the forward coupler port power level confirmed and the power applied to the dipole antenna recorded. The ERP level was determined by correcting the applied feed point power with the addition of the dipole gain.

(See next pages for measurement data)

B.2. MEASUREMENT SETUP

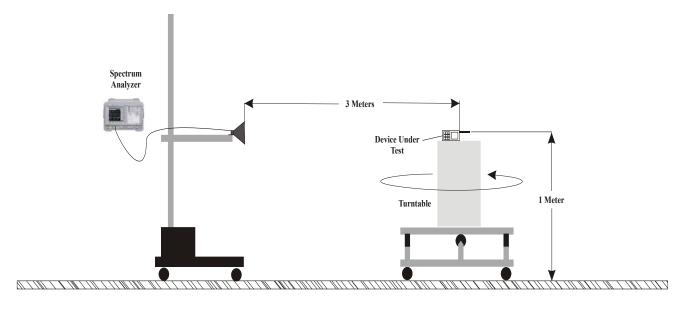


Figure 2. Radiated Power Measurement Test Setup Diagram

| Applicant: | Itronix Corporation | Model: | IX260PNL3BM390 | FCC ID: | KBCIX260PNL | 3BM390 | | | | |
|--|--|--------|----------------|---------|-------------|--------|--|--|--|--|
| Rugged Lapt | Rugged Laptop PC with internal Wavenet BM3-900M Mobitex Radio Modem & WLAN (802.11b/g) | | | | | | | | | |
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| Test Type: | FCC Part 90 EMC Measurements |

EFFECTIVE RADIATED POWER OUTPUT - §90.635; §2.1046 (Continued)

B.3. MEASUREMENT DATA

| / | Z | ltoch | Project N | | 090104KBC-T553-E90M tronix | | | | | | Standard: Test Star | | FCC90. | |
|----------|----------|------------------------------|-------------|-----------------------------|-------------------------------|--|--------------------------------|-----------------|--------------|-----------|------------------------|---------|--------|---------|
| L | CI | Company: | | IX260+ with Wavenet Mobitex | | | | | | Test End | | 3-Sep-0 | | |
| | | .,, | Product: | | IX260+ With W | avenet Mobitex | | | | | Test thu | Date. | 20-Sep | -04 |
| | | | | IX260+ with | Wavenet Mob | itex & Attache | ed Swivel D | ipole Anten | na Carrier F | ower Leve | els | | | |
| Polarity | Distance | Substitution Antenna Type | Carrier | Frequency | Corrected Field Strength | Substituted SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | Carrier E | RP Level | ERP | Limit | Margin | Pass/Fa |
| | m | | | MHz | dBu∀/m | dBu∀ | dBm | dBi | dBm | Watts | dBm | Watts | dB | |
| Н | 3 | B_3121C | Lowest | 896.00 | 131.95 | 106.20 | 34.25 | 2.25 | 34.36 | 2.73 | 50.00 | 100.00 | 15.64 | PASS |
| Н | 3 | B_3121C | Highest | 901.00 | 132.38 | 106.48 | 34.43 | 2.29 | 34.58 | 2.87 | 50.00 | 100.00 | 15.42 | PASS |
| V | 3 | B_3121C | Lowest | 896.00 | 126.89 | 101.14 | 32.36 | 2.25 | 32.47 | 1.77 | 50.00 | 100.00 | 17.53 | PASS |
| ٧ | 3 | B_3121C | Highest | 901.00 | 127.40 | 101.50 | 32.73 | 2.29 | 32.88 | 1.94 | 50.00 | 100.00 | 17.12 | PASS |
| | Note: | | | | | | | | | | | | | |
| | Dipole | e Antenna used t | or substitu | tion | | | | | | | | | | |
| | Form | | | | | | | | | | | | | |
| | | .evel (dBm) = Po | | | Bm) + Antenna | Gain (dBi) - 2.14 | 4 | | | | | | | |
| | Margi | n (dB) = Limit (dB | 3m) - Level | (dBm) | | | | | | | | | | |

| | | | Project Nu | mber: | 090104KBC-T | 553-E90M | | | | | Standard: | : | FCC90.6 | 35d |
|----------|----------|------------------------------|--------------|-------------|-----------------------------|--|---------------------------------|-----------------|---------------|-----------|-----------|---------|---------|---------|
| (| Cel | ltech | Company: | | Itronix | | | | | | Test Star | t Date: | 3-Sep-0 | 4 |
| _ | Telegrad | Engineering Sentencials | Product: | | IX260+ with W | /avenet Mobitex | | | | | Test End | Date: | 17-Sep- | 04 |
| | | | | | | | | | | | | | | |
| | | | | IX260+ with | Wavenet Mob | itex & Z563 M | obile Anten | na and Crad | lle Carrier F | ower Leve | els | | | |
| Polarity | Distance | Substitution Antenna Type | Carrier | Frequency | Corrected Field Strength | Substituted SA Signal Level (uncorrected) | Povver Applied to Antenna | Antenna Gain | Carrier E | RP Level | ERP | Limit | Margin | Pass/Fa |
| | m | | | MHz | dBu∀/m | dBu∀ | dBm | dBi | dBm | Watts | dBm | Watts | dB | |
| Н | 3 | B_3121C | Lowest | 896.00 | 117.05 | 91.30 | 18.94 | 2.25 | 19.06 | 0.080 | 50.00 | 100.00 | 30.94 | PASS |
| Н | 3 | B_3121C | Highest | 901.00 | 118.00 | 92.10 | 19.55 | 2.29 | 19.70 | 0.093 | 50.00 | 100.00 | 30.30 | PASS |
| ٧ | 3 | B_3121C | Lowest | 896.00 | 122.15 | 96.40 | 27.96 | 2.25 | 28.07 | 0.642 | 50.00 | 100.00 | 21.93 | PASS |
| ٧ | 3 | B_3121C | Highest | 901.00 | 122.20 | 96.30 | 28.10 | 2.29 | 28.25 | 0.668 | 50.00 | 100.00 | 21.75 | PASS |
| | Note: | | | | | | | | | | | | | |
| | | e Antenna used | for substitu | tion | | | | | | | | | | |
| | Form | ulae: | | | | | | | | | | | | |
| | | _evel (dBm) = Po | | | ∃m) + Antenna (| Gain (dBi) - 2.14 | 1 | | | | | | | |
| | Margi | in (dB) = Limit (d | lBm) - Level | (dBm) | | | | | | | | | | |

| Applicant: | Itronix Corporation | Model: | IX260PNL3BM390 | FCC ID: | KBCIX260PNL | 3BM390 | | | | |
|--|--|--------|----------------|---------|-------------|--------|--|--|--|--|
| Rugged Lapt | Rugged Laptop PC with internal Wavenet BM3-900M Mobitex Radio Modem & WLAN (802.11b/g) | | | | | | | | | |
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| Test Type: | FCC Part 90 EMC Measurements |

EFFECTIVE RADIATED POWER OUTPUT - §90.635; §2.1046 (Continued)

B.3. MEASUREMENT DATA (Cont.)

| (| Celltech | | Project Nu Company: Product: | | 090104KBC-T: Itronix IX260+ with W | 553-E90M /avenet Mobitex | : | | | | Standard: Test Start Test End | t Date: | FCC90.6 3-Sep-0 17-Sep- |)4 |
|----------|-----------------|---|------------------------------------|-------------|--|-----------------------------|--------------------------------|-----------------|--------------|-----------|-------------------------------------|---------|-------------------------------|----------|
| | | | | IX260+ with | Wavenet Mobi | itex & 7567 Ma | obile Anteni | na and Crad | le Carrier P | ower Leve | els | | | |
| Polarity | Distance | Substitution Antenna Type | Carrier | Frequency | Corrected Field Strength | Substituted SA Signal | Power Applied to Antenna | Antenna Gain | Carrier E | | | Limit | Margin | Pass/Fai |
| | m | | | MHz | dBu∀/m | dBu∀ | dBm | dBi | dBm | Watts | dBm | Watts | dB | |
| Н | 3 | B_3121C | Lowest | 896.00 | 118.45 | 92.70 | 20.42 | 2.25 | 20.53 | 0.113 | 50.00 | 100.00 | 29.47 | PASS |
| Н | 3 | B_3121C | Highest | 901.00 | 117.40 | 91.50 | 18.95 | 2.29 | 19.10 | 0.081 | 50.00 | 100.00 | 30.90 | PASS |
| V | 3 | B_3121C | Lowest | 896.00 | 125.25 | 99.50 | 31.14 | 2.25 | 31.25 | 1.33 | 50.00 | 100.00 | 18.75 | PASS |
| V | 3 | B_3121C | Highest | 901.00 | 124.50 | 98.60 | 30.42 | 2.29 | 30.56 | 1.14 | 50.00 | 100.00 | 19.44 | PASS |
| | Note: Dipole | e Antenna used | for substitut | ion | | | | | | | | | | |
| | Form | | | | | | | | | | | | | |
| | | _evel (dBm) = Po in (dB) = Limit (dl | | | m) + Antenna G | ain (dBi) - 2.14 | | | | | | | | |

| الم | | | umber: | 090104KBC-T: | 553-E9UM | | | | | Standard: | | FCC90.6 | 35d |
|-------------|---------------------------------|-------------|------------------|---|--|--------------------------------|---------------------------|--|--|---------------------------|--|--|--|
| - WOIIIOW I | | Company | <i>r</i> : | ltronix | | | | | | Test Start | Date: | 3-Sep-0 | 4 |
| Subsystem | Engineering Sentem Lab | Product: | | IX260+ with W | avenet Mobitex | | | | | Test End | Date: | 20-Sep- | 04 |
| | | | | | | | | | | | | | |
| | | | IX260+ wit | h Wavenet Mo | bitex & Z573 I | Mobile Ante | nna and Cra | adle Carrier | Power Le | vels | | | |
| Distance | Substitution Antenna Type | Carrier | Frequency | Corrected Field Strength | Substituted SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | Carrier E | RP Level | ERP | Limit | Margin | Pass/Fai |
| m | | | MHz | dBu∀/m | dBu∀ | dBm | dBi | dBm | Watts | dBm | Watts | dB | |
| 3 | B_3121C | Lowest | 896.00 | 112.69 | 86.94 | 14.59 | 2.25 | 14.70 | 0.029 | 50.00 | 100.00 | 35.30 | PASS |
| 3 | B_3121C | Highest | 901.00 | 112.64 | 86.74 | 14.31 | 2.29 | 14.46 | 0.028 | 50.00 | 100.00 | 35.54 | PASS |
| 3 | B_3121C | Lowest | 896.00 | 122.71 | 96.96 | 28.49 | 2.25 | 28.60 | 0.725 | 50.00 | 100.00 | 21.40 | PASS |
| 3 | B_3121C | Highest | 901.00 | 126.52 | 100.62 | 32.59 | 2.29 | 32.74 | 1.88 | 50.00 | 100.00 | 17.26 | PASS |
| Note: | | | | | | | | | | | | | |
| Dipole | : Antenna use | ed for subs | titution | | | | | | | | | | - |
| ormu | ulae: | | | | | | | | | | | | |
| RP L | .evel (dBm) = | Power app | olied to Antenna | (dBm) + Anten | na Gain (dBi) - : | 2.14 | | | | | | | |
| vlargi | n (dB) = Limit | (dBm) - Le | vel (dBm) | | | | | | | | | | |
| | m 3 3 3 3 3 3 lote: | m | m | Substitution Antenna Type Frequency Frequency | Substitution Antenna Type Frequency Frequency Corrected Field Strength | Substitution Antenna Type | Substitution Antenna Type | Substitution Antenna Type Frequency Frequency Corrected SA Signal Level (uncorrected) Power Applied to Antenna Cain Ca | Substitution Antenna Type Frequency Frequency Corrected Field Strength Substituted SA Signal Level (uncorrected) Power Applied to Antenna Carrier El Strength Corrected SA Signal Level (uncorrected) Power Applied to Antenna Carrier El Strength Corrected SA Signal Level (uncorrected) Power Applied to Antenna Carrier El Strength Carrier El Strengt | Substitution Antenna Type | Substitution Frequency F | Substitution Antenna Type Frequency Frequency Frequency Frequency Frequency Substituted SA Signal Level (uncorrected) Power Applied to Antenna Carrier ERP Level ERP Limit | Substitution Antenna Type Frequency Frequency Frequency Frequency Frequency Frequency Sa Signal Level (uncorrected) Sa Signal Level (uncorre |

| Applicant: | nt: Itronix Corporation Model: IX260PNL3BM390 FCC ID: KBCIX260PNL | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|
| Rugged Lapt | Rugged Laptop PC with internal Wavenet BM3-900M Mobitex Radio Modem & WLAN (802.11b/g) | | | | | | | | | |
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| Test Report S/N: | 100504KBC-T566-E90M |
|------------------|------------------------------|
| Test Date(s): | September 03-20, 2004 |
| Test Type: | FCC Part 90 EMC Measurements |

APPENDIX C - FIELD STRENGTH OF SPURIOUS RADIATION - §90.210j; §2.1053

C.1. MEASUREMENT PROCEDURE

Radiated spurious emissions were measured on a 3-meter open area test site using the Signal Substitution Method in accordance with ANSI TIA/EIA-603-A-2002. The DUT was placed in the vehicle cradle and programmed in test mode using the Wavenet BM3-900M Mobitex test software installed in the IX260+ Laptop PC with the internal transmitter in modulated carrier mode (30% duty cycle) at a full rated power. For the swivel dipole evaluation, the DUT was placed on a Styrofoam support at the center of the turntable, 1 meter above the ground plane. For the vehicle-mount antenna evaluations, the antenna was fixed on a 50 cm x 50 cm ground plane on a Styrofoam support placed on a wooden table, at a distance of 3 meters from the receive antenna, and connected to the vehicle cradle via a 17-foot LMR-195 cable representing a typical vehicle-mount installation. The IX260+ Laptop PC was installed in the vehicle cradle and placed on the wooden table. A frequency band from just above the highest transmitted frequency to just above the 10th harmonic of the highest transmitted frequency was divided into smaller bands corresponding to measurement equipment setups and capabilities. measurement equipment including carrier blocking filters, was optimized for maximum sensitivity for each band while ensuring no saturation occurred in any gain stages that may be present. The maximum field intensity in each of these bands were determined by rotating the DUT approximately 360 degrees and changing the height of the receive antenna from 1 to 4 meters while maintaining the spectrum analyzer trace in max hold. The stored trace was then evaluated to determine any significant emissions that should be evaluated by substitution. The frequency and uncorrected field strength level for each significant emission was recorded. To describe the noise floor, the maximum level associated with a number of frequencies within the band were also recorded. The DUT was then substituted with a transmit antenna. A signal simulating the DUT emission was generated for each of the signals recorded; it was amplified and fed through a directional coupler to the substitution antenna. The height and direction of the receive antenna as well as the direction of the substitution horn was adjusted for a maximum received signal. The power applied to the transmit antenna was then adjusted to give the same field strength reading as previously recorded for the DUT and the power at the forward coupler port recorded. The substitution antenna was then replaced with a calibrated power sensor, the forward coupler port power level confirmed and the power applied to the horn antenna recorded. The radiated power level was determined by correcting the applied feed point power with the addition of the antenna gain.

(See next pages for measurement data)

C.2. MEASUREMENT SETUP

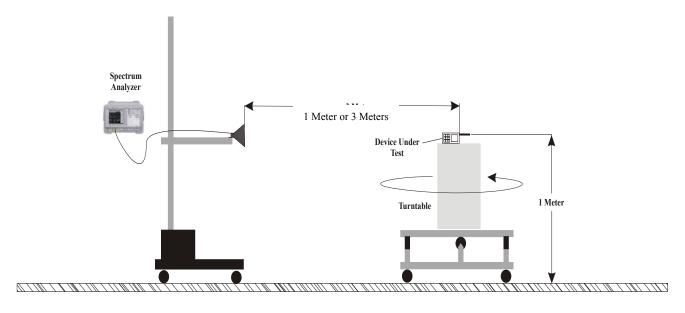


Figure 3. Radiated Spurious Measurement Test Setup Diagram (3 Meters for Frequencies < 10 GHz - 1 Meter for Frequencies ≥ 10 GHz)

| Applicant: | pplicant: Itronix Corporation Model: IX260PNL3BM390 FCC ID: KBCIX260PNL3B | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|
| Rugged Lapt | Rugged Laptop PC with internal Wavenet BM3-900M Mobitex Radio Modem & WLAN (802.11b/g) | | | | | | | | | |
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| Test Report S/N: | 100504KBC-T566-E90M |
|------------------|------------------------------|
| Test Date(s): | September 03-20, 2004 |
| Test Type: | FCC Part 90 EMC Measurements |

C.3. MEASUREMENT DATA

| | | مامما | Project N | | 090104KBC-T | 553-E90M | | | Standard: | | FCC90.210 | lj . |
|----------|--|---|--------------|-------------|-----------------------------|--|--------------------------------|-----------------|-----------------------|-----------|-----------|-----------|
| ı | Lell | tecn | Company | <i>r</i> : | ltronix | | | | Test Start | Date: | 3-Sep-04 | |
| | Tetrant ! | lgireng Smise Lib | Product: | | IX260+ with W | /avenet Mobitex | | | Test End D | ate: | 20-Sep-04 | |
| | | | | | | | | | | | | |
| | | | IX260+ | with Wavene | t Mobitex & A | ttached Swive | I Dipole An | tenna Spuri | ous Emissi | ons | | |
| Polarity | Distance | Substitution Antenna Type | Carrier | Frequency | Corrected Field Strength | Substituted SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | Emission ERP Level | ERP Limit | Margin | Pass/Fail |
| | m | | | MHz | dBu∀/m | dBu∀ | dBm | dBi | dBm | dBm* | dB | |
| Н | 3 | Horn SN6267 | Lowest | 1108.00 | 73.47 | 44.40 | -33.43 | 4.24 | -31.33 | -20.00 | 11.33 | PASS |
| Н | 3 | Horn SN6267 | Lowest | 1793.00 | 81.30 | 49.60 | -27.97 | 6.49 | -23.62 | -20.00 | 3.62 | PASS |
| Н | 3 | Horn SN6267 | Lowest | 5378.00 | 94.29 | 52.80 | -40.61 | 8.60 | -34.15 | -20.00 | 14.15 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 1793.00 | 80.60 | 48.90 | -27.68 | 6.49 | -23.33 | -20.00 | 3.33 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 1890.00 | 66.45 | 34.30 | -40.67 | 6.59 | -36.22 | -20.00 | 16.22 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 5378.00 | 61.61 | 55.60 | -38.78 | 8.60 | -32.32 | -20.00 | 12.32 | PASS |
| Н | 3 | Horn SN6267 | Highest | 1998.00 | 72.27 | 39.60 | -37.26 | 6.70 | -32.70 | -20.00 | 12.70 | PASS |
| Н | 3 | Horn SN6267 | Highest | 5408.00 | 63.27 | 57.20 | -36.38 | 8.60 | -29.92 | -20.00 | 9.92 | PASS |
| ٧ | 3 | Horn SN6267 | Highest | 2000.00 | 72.38 | 39.70 | -36.62 | 6.70 | -32.06 | -20.00 | 12.06 | PASS |
| ٧ | 3 | Horn SN6267 | Highest | 5408.00 | 62.47 | 56.40 | -41.19 | 8.60 | -34.73 | -20.00 | 14.73 | PASS |
| | N 1-1- | | | | | | | | | | | |
| | Note: | | r substituti | on | | | | | | | | - |
| | Horn Antenna used for substitution All applicable frequency ranges were investigated up to the carrier tenth harmonic and any significant emissions or noise floor level reported for each range. | | | | | | | | | | | |
| | Form | | | | | | | | | | | |
| | _ | = 50 + 10*log(Fui | | | | | · · · | gives -20 dE | 9m | | | |
| | _ | _evel (dBm) = Po in (dB) = Limit (dB | - '' | • | oni) + Antenna | Gain (dBi) - 2.14 | + | | | | | - |
| | warg | in (ub) = Liniit (dt | om) - Level | (ubfil) | | | | | | | | - |

| Applicant: | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
| Rugged Laptop PC with internal Wavenet BM3-900M Mobitex Radio Modem & WLAN (802.11b/g) | | | | | | | | | | |
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| Test Report S/N: | 100504KBC-T566-E90M |
|------------------|------------------------------|
| Test Date(s): | September 03-20, 2004 |
| Test Type: | FCC Part 90 EMC Measurements |

C.3. MEASUREMENT DATA (Cont.)

| (| Celltech Integrational and a | | Project Nu Company: Product: | | 090104KBC-T553-E90M Itronix IX260+ with Wavenet Mobitex with Wavenet Mobitex & Z563 Antenna Spuri- | | | Standard: Test Start I Test End D | | FCC90.210j 3-Sep-04 17-Sep-04 | | |
|----------|----------------------------------|---|------------------------------------|-------------------------------------|---|---|--------------------------|---|--------------------------------|-------------------------------------|-------------|-----------|
| Polarity | Distance | Substitution Antenna Type | Carrier | IX260+ with | Corrected Field Strength | Substituted SA Signal | Power Applied to Antenna | irious Emis Antenna Gain | sions Emission ERP Level | ERP Limit | Margin | Pass/Fail |
| | m | | | MHz | dBuV/m | dBu∀ | dBm | dBi | dBm | dBm* | dB | |
| Н | 3 | Horn SN6267 | Lowest | 1889.00 | 71.75 | 39.60 | -37.22 | 6.59 | -32.77 | -20.00 | 12.77 | PASS |
| Н | 3 | Horn SN6267 | Lowest | 1897.00 | 76.18 | 44.00 | -32.23 | 6.60 | -27.77 | -20.00 | 7.77 | PASS |
| Н | 3 | Horn SN6267 | Lowest | 2452.00 | 60.30 | 63.20 | -32.93 | 7.69 | -27.38 | -20.00 | 7.38 | PASS |
| Н | 3 | Horn SN6267 | Lowest | 5378.00 | 60.11 | 54.10 | -38.92 | 8.60 | -32.46 | -20.00 | 12.46 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 1797.00 | 75.41 | 43.70 | -33.37 | 6.50 | -29.01 | -20.00 | 9.01 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 1889.00 | 71.35 | 39.20 | -37.30 | 6.59 | -32.85 | -20.00 | 12.85 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 5378.00 | 64.91 | 58.90 | -34.90 | 8.60 | -28.44 | -20.00 | 8.44 | PASS |
| Н | 3 | Horn SN6267 | Highest | 1994.00 | 66.75 | 34.10 | -39.81 | 6.69 | -35.26 | -20.00 | 15.26 | PASS |
| Н | 3 | Horn SN6267 | Highest | 5408.00 | 57.67 | 51.60 | -43.55 | 8.60 | -37.09 | -20.00 | 17.09 | PASS |
| ٧ | 3 | Horn SN6267 | Highest | 1803.00 | 78.14 | 46.40 | -31.31 | 6.50 | -26.95 | -20.00 | 6.95 | PASS |
| ٧ | 3 | Horn SN6267 | Highest | 1953.00 | 66.54 | 34.10 | -40.27 | 6.65 | -35.76 | -20.00 | 15.76 | PASS |
| ٧ | 3 | Horn SN6267 | Highest | 5408.00 | 63.37 | 57.30 | -40.32 | 8.60 | -33.86 | -20.00 | 13.86 | PASS |
| | All ap for e Form Limit | Antenna used oplicable freque ach range. ulae: = 50 + 10*log(Fi | ncy ranges v undamental F | were investigate Power Level, in | watts) below th | rier tenth harmo ne Fundamental Gain (dBi) - 2.14 | peak power | _ | | ise floor lev | el reported | |
| | Marg | in (dB) = Limit (d | Bm) - Level | (dBm) | | | | | | | | |

| Applicant: | Applicant: Itronix Corporation Model: IX260PNL3BM390 FCC ID: KBCIX260PNL3 | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|
| Rugged Laptop PC with internal Wavenet BM3-900M Mobitex Radio Modem & WLAN (802.11b/g) | | | | | | | | | | |
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| Test Report S/N: | 100504KBC-T566-E90M |
|------------------|------------------------------|
| Test Date(s): | September 03-20, 2004 |
| Test Type: | FCC Part 90 EMC Measurements |

C.3. MEASUREMENT DATA (Cont.)

| | (a) II | | Project Nu | mber: | 090104KBC-T | 553-E90M | | | Standard: | | FCC90.210 |)j |
|----------|--|------------------------------|---------------|------------------|-----------------------------|--|--------------------------------|-----------------|-----------------------|-----------|-----------|-----------|
| - (| | tech . | Company: | | ltronix | | | | Test Start | Date: | 3-Sep-04 | |
| ١, | letype | Syreng Series List | Product: | | | /avenet Mobitex | | | Test End D | ate: | 17-Sep-04 | |
| | | | | | | | | | | | | |
| | | | IX260+ | with Wavenet | Mobitex & Z5 | 67 Mobile Ant | enna and C | radle Spuri | ous Emissio | ons | | |
| Polarity | Distance | Substitution Antenna Type | Carrier | Frequency | Corrected Field Strength | Substituted SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | Emission ERP Level | ERP Limit | Margin | Pass/Fail |
| | m | | | MHz | dBuV/m | dBu∀ | dBm | dBi | dBm | dBm* | dB | |
| Н | 3 | Horn SN6267 | Lowest | 1998.00 | 73.27 | 40.50 | -36.14 | 6.70 | -31.58 | -20.00 | 11.58 | PASS |
| Н | 3 | Horn SN6267 | Lowest | 5378.00 | 58.11 | 52.00 | -41.40 | 8.60 | -34.94 | -20.00 | 14.94 | PASS |
| Н | 3 | Horn SN6267 | Lowest | 7986.00 | 55.82 | 45.70 | -55.66 | 9.29 | -48.51 | -20.00 | 28.51 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 1793.00 | 78.49 | 46.90 | -29.65 | 6.49 | -25.30 | -20.00 | 5.30 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 1998.00 | 72.77 | 40.00 | -36.23 | 6.70 | -31.67 | -20.00 | 11.67 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 5378.00 | 64.51 | 58.40 | -35.49 | 8.60 | -29.03 | -20.00 | 9.03 | PASS |
| Н | 3 | Horn SN6267 | Highest | 1994.00 | 72.05 | 39.30 | -37.87 | 6.69 | -33.32 | -20.00 | 13.32 | PASS |
| Н | 3 | Horn SN6267 | Highest | 5408.00 | 58.67 | 52.50 | -41.93 | 8.60 | -35.47 | -20.00 | 15.47 | PASS |
| ٧ | 3 | Horn SN6267 | Highest | 1668.00 | 58.38 | 27.50 | -39.62 | 6.37 | -35.39 | -20.00 | 15.39 | PASS |
| ٧ | 3 | Horn SN6267 | Highest | 1801.00 | 81.63 | 50.00 | -27.62 | 6.50 | -23.26 | -20.00 | 3.26 | PASS |
| ٧ | 3 | Horn SN6267 | Highest | 5408.00 | 64.67 | 58.50 | -38.63 | 8.60 | -32.17 | -20.00 | 12.17 | PASS |
| _ | | | | | | | | | | | | |
| | Note: | | | | | | | | | | | |
| | Horn Antenna used for substitution | | | | | | | | | | | |
| | All applicable frequency ranges were investigated up to the carrier tenth harmonic and any significant emissions or noise floor level reported for each range. | | | | | | | | | | | |
| | Form | ulae: | | | | | | | | | | |
| | Limit | = 50 + 10*log(Fu | ndamental Po | ower Level, in v | vatts) below th | e Fundamental p | oeak power g | jives -20 dBr | n | | | |
| | ERP | Level (dBm) = Po | wer applied | to Antenna (dBi | m) + Antenna G | ain (dBi) - 2.14 | | | | | | |
| | Marg | in (dB) = Limit (d | Bm) - Level (| (dBm) | | | | | | | | |
| | | | | | | | | | | | | |

| Applicant: Itronix Corporation Model: IX260PNL3BM390 FCC ID: KBCIX260PNL3B | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|
| Rugged Laptop PC with internal Wavenet BM3-900M Mobitex Radio Modem & WLAN (802.11b/g) | | | | | | | | | | |
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| Test Report S/N: | 100504KBC-T566-E90M |
|------------------|------------------------------|
| Test Date(s): | September 03-20, 2004 |
| Test Type: | FCC Part 90 EMC Measurements |

C.3. MEASUREMENT DATA (Cont.)

| | A/I | lı. d. | Project N | umber: | 090104KBC-T | 553-E90M | | | Standard: | | FCC90.210 | Jj |
|----------|----------|--|------------|------------------|-----------------------------|--|--------------------------------|-----------------|-----------------------|---------------------|-----------|-----------|
| (| œ | itech | Company | y: | ltroni× | | | | Test Start | Date: | 3-Sep-04 | |
| _ | leige | Stylening Series Lis | Product: | | IX260+ with W | /avenet Mobitex | | | Test End D | ate: | 20-Sep-04 | |
| | | | | | | | | | | | | |
| | | | IX26 |)+ with Waven | et Mobitex & | Z573 Mobile A | ntenna and | Cradle Spu | rious Emis | sions | | |
| Polarity | Distance | Substitution Antenna Type | Carrier | Frequency | Corrected Field Strength | Substituted SA Signal Level (uncorrected) | Power Applied to Antenna | Antenna Gain | Emission ERP Level | ERP Limit | Margin | Pass/Fail |
| | m | | | MHz | dBuV/m | dBu∀ | dBm | dBi | dBm | dBm* | dΒ | |
| Н | 3 | Horn SN6267 | Lowest | 1793.00 | 61.20 | 29.50 | -40.77 | 6.49 | -36.42 | -20.00 | 16.42 | PASS |
| Н | 3 | Horn SN6267 | Lowest | 1998.00 | 71.57 | 38.90 | -37.86 | 6.70 | -33.30 | -20.00 | 13.30 | PASS |
| Н | 3 | Horn SN6267 | Lowest | 5378.00 | 61.61 | 55.60 | -37.26 | 8.60 | -30.80 | -20.00 | 10.80 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 1793.00 | 80.60 | 48.90 | -27.67 | 6.49 | -23.32 | -20.00 | 3.32 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 1998.00 | 72.67 | 40.00 | -36.37 | 6.70 | -31.81 | -20.00 | 11.81 | PASS |
| ٧ | 3 | Horn SN6267 | Lowest | 5378.00 | 65.31 | 59.30 | -34.37 | 8.60 | -27.91 | -20.00 | 7.91 | PASS |
| Н | 3 | Horn SN6267 | Highest | 2000.00 | 72.28 | 39.60 | -37.25 | 6.70 | -32.69 | -20.00 | 12.69 | PASS |
| Н | 3 | Horn SN6267 | Highest | 5408.00 | 57.37 | 51.30 | -43.54 | 8.60 | -37.08 | -20.00 | 17.08 | PASS |
| ٧ | 3 | Horn SN6267 | Highest | 1998.00 | 71.97 | 39.30 | -37.23 | 6.70 | -32.67 | -20.00 | 12.67 | PASS |
| ٧ | 3 | Horn SN6267 | Highest | 5408.00 | 63.27 | 57.20 | -40.21 | 8.60 | -33.75 | -20.00 | 13.75 | PASS |
| | Note | | | | | | | | | | | |
| | All a | i Antenna usec pplicable frequ rted for each r | ency rang | | gated up to the | carrier tenth ha | rmonic and s | any significar | l nt emissions c | l er noise floor | level | |
| | Form | nulae: | | | | | | | | | | |
| | Limit | = 43 + 10*log(l | Fundamen | tal Power Level | , in watts) belo | w the Fundame | ntal peak pov | ver gives -13 | 3 dBm | | | |
| | ERP | Level (dBm) = | Power ap | olied to Antenna | (dBm) + Anten | na Gain (dBi) - : | 2.14 | | | | | |
| | Marg | jin (dB) = Limit | (dBm) - Le | evel (dBm) | | | | | | | | |

| Applicant: | Applicant: Itronix Corporation Model: IX260PNL3BM390 FCC ID: KBCIX260PNL3 | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|
| Rugged Laptop PC with internal Wavenet BM3-900M Mobitex Radio Modem & WLAN (802.11b/g) | | | | | | | | | | |
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