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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

ELECTROMAGNETIC COMPATIBILITY

EMC TEST REPORT

FCC 47 CFR PART 15 SUBPART E (NII)

&

INDUSTRY CANADA RSS-210 ISSUE 6

FOR

ITRONIX CORPORATION

MODEL: IX325-CWLBT

IX325 SERIES RUGGED TABLET PC

WITH

CISCO AIR-CB21AG-A-K9 802.11ABG WLAN (PCMCIA)

FCC ID: KBCIX325-CWLBT

IC: 1943A-IX325ab

Test Report Serial Number


040505KBC-F631-E15EW

Test Report Issue Number

E631EW-042006-R0

Test Lab


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


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DECLARATION OF COMPLIANCE

| | | | |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Test Lab | CELLTECH LABS INC. Testing and Engineering Services 1955 Moss Court Kelowna, B.C. Canada V1Y 9L3 Phone: 250-448-7047 Fax: 250-448-7048 e-mail: info@celltechlabs.com web site: www.celltechlabs.com | Company | ITRONIX CORPORATION 12825 E. Mirabeau Parkway Spokane Valley, WA 99216 United States |
| Lab Registration No.(s): | FCC: 714830 | IC: 3874 | |
| Rule Part(s): | FCC: §15.407; §2.1091; §1.1310 | IC: RSS-210 Issue 6 Annex 8 | |
| Device Classification: | FCC: Unlicensed National Information Infrastructure TX (NII) | IC: Low Power License-Exempt Transmitter | |
| Device Identification: | FCC: ID: KBCIX325-CWLBT | IC: 1943A-IX325ab | |
| DUT Description: | | | |
| Model: | IX325-CWLBT | | |
| Device Description: | Rugged Tablet PC | | |
| Internal Transmitter(s): | Cisco AIR-CB21AG-A-K9 802.11abg WLAN (PCMCIA) | | |
| Tx Frequency Range(s): | 802.11a | 5180 - 5250 MHz (UNII-1) 5250 - 5320 MHz (UNII-2) | |
| Data Rates: | 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps | | |
| Max. RF Output Power Measured: | 0.0385 Watts - 15.85 dBm - Channel 36 (5180 MHz) - 6 Mbps | | |
| Max. Radiated Carrier RF Power Measured: | 111.10 dBuV/m (PK) @ 3 meters - Channel 64 (5320 MHz, 1000 kHz RBW) | | |
| Maximum Radiated Spurious RF Power*: | 63.52 dBuV/m (AV) @ 3 meters - Channel 64 (15957.15 MHz, 1000 kHz RBW) | | |
| Worst-case Conducted Transmitter Spurious Emissions*: | -31.28 dBm - Channel 36 (54 Mbps, 25982.08 MHz) | | |
| Worst-case Conducted Receiver Spurious Emissions*: | -68.55 dBm - Channel 64 (25050.83 MHz) | | |
| Mode(s) of Operation: | OFDM (Orthogonal Frequency Division Multiplexing) | | |
| Modulation Type(s): | BPSK, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, CCK | | |
| Antenna Type(s): | Dual-band Diversity Monopole Antenna (embedded on PC Card PCB) | | |
| Power Source(s): | Stationary: 75 Watt AC Power Adapter 11.1 V Internal Lithium-ion Battery, 3600 mAh (Model: T8M-E) 11.1 V External Second Lithium-ion Battery, 3600 mAh (Model: T8S-E) | | |

*Emission with lowest margin to the applicable limit

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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ATTESTATIONS

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 Part 15E and Industry Canada RSS-210 Issue 6.


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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The results and statements contained in this report pertain only to the device(s) evaluated.

| | |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|  | <p>Duane M. Friesen, C.E.T. EMC Manager Celltech Labs Inc.</p> |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|



| | | | | | | |
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| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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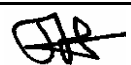
| | | | | |
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| TEST SUMMARY | | | | | | |
|------------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------------------|-----------------|---------------|--------|
| Appendix | Test Description | Procedure Reference | Limit Reference | Test Start Date | Test End Date | Result |
| Referenced Standard: FCC CFR Title 47 Part 15 | | | | | | |
| B | 26 dB / 99% Emission Bandwidth | FCC DA 02-2138 | Reference only | 24Oct05 | 24Oct05 | na |
| C | Transmitter Output Power | FCC DA 02-2138 | §15.407(a) (1), (2) | 24Oct05 | 24Oct05 | Pass |
| D | Peak Excursion Ratio | FCC DA 02-2138 | §15.407(a) (6) | 24Oct05 | 24Oct05 | Pass |
| E | Conducted Transmitter Spurious Emissions | RSS-GEN 7.2.3.1 | Reference only | 14Nov05 | 14Nov05 | na |
| G | Radiated Spurious Emissions | FCC 97-114 | §15.407(b) (1), (2) & (6) | 3Oct05 | 25Oct05 | Pass |
| H | Restricted Band Emissions | FCC 97-114 | §15.407 (b) (6) §15.205 (a), (b) §15.209 (a) | 3Oct05 | 18Nov05 | Pass |
| I | Peak Power Spectral Density | FCC DA 02-2138 | §15.407(a) (1) & (2) | 25Oct05 | 25Oct05 | Pass |
| J | Conducted Powerline Emissions | ANSI C63.4 | §15.407 (b) (6) §15.207 | 16Nov05 | 16Nov05 | Pass |
| Referenced Standard: IC RSS-210 Issue 6 | | | | | | |
| B | 26 dB / 99% Emission Bandwidth | RSS-GEN 4.4.1 | Reference only | 24Oct05 | 24Oct05 | Pass |
| C | Transmitter Output Power | RSS-210 Annex 9.2 §(1)&(2); RSS-GEN 4.6 | RSS-210 Annex 9.2 §(1)&(2) | 24Oct05 | 24Oct05 | Pass |
| E | Conducted Transmitter Spurious Emissions | RSS-GEN 7.2.3.1 | Reference only | 14Nov05 | 14Nov05 | na |
| F | Conducted Receiver Spurious Emissions | RSS-GEN 7.2.3.1 | RSS-GEN §6 (b) | 15Nov05 | 17Nov05 | Pass |
| G | Radiated Spurious Emissions | RSS-212, ANSI C63.4 | RSS-210 Annex 9.3 §(1)&(2) | 3Oct05 | 25Oct05 | Pass |
| H | Restricted Band Emissions | RSS-212, ANSI C63.4 | RSS-210 §2.2 | 3Oct05 | 18Nov05 | Pass |
| I | Peak Power Spectral Density | RSS-210 § 10 | RSS-210 Annex 9.5 §(1) & (2), §(b) | 25Oct05 | 25Oct05 | Pass |
| J | Conducted Powerline Emissions | RSS-212, ANSI C63.4 | RSS-GEN 7.2.2 | 16Nov05 | 16Nov05 | Pass |


REVISION LOG

| Issue No. | Description | Implemented By | Implementation Date |
|------------------|-----------------|-----------------|---------------------|
| E631EW-042006-R0 | Initial Release | Jonathan Hughes | 20Apr06 |

SIGNATORIES

| | | |
|-------------|-------------------------------------------------------------------------------------|-------------------|
| Prepared By |  | December 02, 2005 |
| Name/Title | Duane M. Friesen, C.E.T. / EMC Manager | Date |
| Reviewed By |  | April 20, 2006 |
| Name/Title | Jonathan Hughes / General Manager | Date |

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
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| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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1.0 SCOPE


This report outlines the measurements made and results collected during the electromagnetic emissions testing of the Itronix Corporation Model: IX325-CWLBT Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN PCMCIA Card utilizing an embedded dual-band diversity PCB antenna. As defined by the manufacturer, the WLAN is designed to operate in North America with the 5180-5320 MHz band addressed in this report. The 2412-2462 MHz and 5745-5825 MHz operating bands are addressed in a separate report for Subpart E of the requirements. The 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 Part 15 Subpart E and Industry Canada RSS-210 Issue 6.

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 |
| 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 15:2005 | Code of Federal Regulations Title 47: Telecommunication Part 15: Radio Frequency Devices |
| FCC Public Notice DA 00-705 | Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems March 30, 2000 |
| FCC Public Notice DA 02-2138 | Measurement Procedure Updated for Peak Transmit Power in the Unlicensed National Information Infrastructure (U-NII) Bands August 30, 2002 |
| FCC Knowledge Database Pub. | 558074 (May 10, 2005) |
| IC Spectrum Management & Telecommunications Policy | Radio Standards Specification RSS-GEN 4.4.1 General Requirements and Information for Certification of Radiocommunication Equipment - Issue 1, September 2005 RSS-212 Issue 1 (Provisional) - Test Facilities & Test Methods for Radio Equipment RSS-210 Issue 6 - Low Power Licence-Exempt Radiocommunication Devices - September 2005 RSS-102 Issue 2 - Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) - November 2005 |


| | | | | | | |
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| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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TERMS AND DEFINITIONS

| | |
|------|----------------------------------|
| AVG | Average |
| CFR | Code of Federal Regulations |
| dB | decibel |
| dBm | dB referenced to 1 mW |
| dBuV | dB referenced to 1 uV |
| DUT | Device under Test |
| dBc | dB down from carrier |
| EBW | Emission Bandwidth |
| EMC | Electromagnetic Compatibility |
| FCC | Federal Communication Commission |
| HP | Hewlett Packard |
| HPF | High Pass Filter |
| Hpol | Horizontal Polarization |
| IC | Industry Canada |
| kHz | kilohertz |
| LNA | Low Noise Amplifier |
| m | meter |
| MHz | Megahertz |
| Mbps | megabits per second |
| na | not applicable |
| n/a | not available |
| PK | Peak |
| PPSD | Peak Power Spectral Density |
| QP | Quasi-peak |
| RBW | Resolution Bandwidth |
| R&S | Rohde & Schwarz |
| RSS | Radio Standard Specification |
| SA | Spectrum Analyzer |
| TPC | Transmit Power Control |
| VBW | Video Bandwidth |
| Vpol | Vertical Polarization |
| WLAN | Wireless Local Area Network |

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
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3.0 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 to the requirements set forth in ANSI C63.4 and are filed and are listed with the FCC under Registration Number 714830 and Industry Canada under File Number IC 3874.

4.0 GENERAL INFORMATION

4.1 Applicant Information

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


4.2 DUT Description


The DUT consisted of the Itronix Rugged Tablet PC Model: IX325-CWLBT with Cisco AIR-CB21AG-A-K9 802.11abg WLAN PCMCIA Card installed in the PCMCIA slot. The embedded dual-band monopole diversity PCB antenna is located at the protruding end of the PCMCIA card. Photographs of the DUT placement and construction are shown in Appendix A.

| | | | |
|-------------------------|--------------------------------------------------------------------------------------------|----------------|--------------------------|
| Device: | Rugged Tablet PC | | |
| Model: | IX325-CWLBT | | |
| Serial Number: | ZZGEG5073ZZ9781 | | |
| Identifier(s): | FCC ID: | KBCIX325-CWLBT | IC: 1943A-IX325ab |
| Power Source(s): | Delta Electronics 75 Watt AC-DC Power Supply Model: ADP-75 FB B Rev 00 (S/N: UCT030200307) | | |
| | Internal Lithium-ion 11.1 V 3600 mAh Battery Model: T8M-E | | |
| | External Second Lithium-ion 11.1 V 3600 mAh Battery Model: T8S-E | | |

| | | | |
|------------------------|-------------------------------------------|---------------------------------------------------------|-------------------------------------------------|
| Device: | WLAN PCMCIA Card (802.11abg) | | |
| Model: | CISCO AIR-CB21AG-A-K9 | | |
| Serial No(s): | FOC0853N07U, FOC0852NKWN | | |
| Rule Part(s): | FCC: | §15.247; §2.1091; §1.1310 | IC: RSS-210 Issue 6 Annex 8 |
| Classification: | FCC ID: | Unlicensed National Information Infrastructure TX (NII) | IC: Low Power License-Exempt Transmitter |
| Power Source: | Powered from the internal PC power supply | | |

| | | | |
|----------------|--------------------------------------------------------------------------------|--|--|
| Device: | Embedded Dual-Band Monopole Diversity PCB antenna (Transmit/Receive & Receive) | | |
| Model: | n/a (Integral to AIR-CB21AG-A-K9 WLAN PCB) | | |
| Gain: | 2.0 dBi (horizontal) | | |

| | | | | | | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------|---------------|----------------------|---------------------------------------------------------------------------------------|
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4.3 Co-Located Equipment

| | | | |
|----------------|-----------------------------------|----------------------|-------------------------------------------|
| Device: | 2.4GHz FHSS Bluetooth Transmitter | Model: | Micro-Star International Co. Ltd. MS-6837 |
| Device: | Internal PIFA Bluetooth Antenna 3 | Manufacturer: | Well Green Technology |

| | | | |
|----------------|----------------------------|---------------|---------------------------|
| Device: | GPS Receiver Module | Model: | Leadtek Model LR9805 |
| Device: | GPS Antenna (Receive only) | Model: | Sarantel 101401040/2004UK |

4.4 Cable Descriptions

| ROUTING | | Length m | Model | Terminations | | Shield Type | Shield Termination | | Suppression |
|---------------|--------------|-------------|-------|--------------|-------|-------------|--------------------|-------|-------------|
| From | To | | | End 1 | End 2 | | End 1 | End 2 | |
| PC modem port | Unterminated | 1.0 | n/a | RJ-11 | RJ-11 | None | na | na | None |

4.5 Support Equipment

The following equipment was used in support of the DUT.

| CO-LOCATED SUPPORT EQUIPMENT LIST | | |
|-----------------------------------|-----------|--------------------|
| MANUFACTURER | MODEL | DESCRIPTION |
| D-Link | DE-809TC/ | Ethernet hub |
| YNG YUH | YP-040 | Hub power supply |
| MLi | 699 | Speakers |
| Polk Audio | n/a | Speaker-microphone |
| | K8255 | Keyboard |
| Sanwa Supply | MA-MBUSB | Mouse |


4.6 Clock Frequencies


4.6.1 DUT Clock Frequencies

| | |
|----------------|--------------------|
| Device: | Rugged Tablet PC |
| Clocks: | n/a |
| Name: | WLAN PCMCIA Card |
| Clocks: | n/a |
| Name: | PCB Antenna (WLAN) |
| Clocks: | None |

4.6.2 Co-Located Clock Frequencies

| | |
|----------------|-------------|
| Device: | Peripherals |
| Clocks: | n/a |

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
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| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |


4.7 Mode(s) of Operation Tested


Customer supplied the software was used to set the WLAN card in the appropriate mode, channel, and power level for the specific measurement. The following are the minimum settings used:

| | | | |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|
| Tx Frequency Range: | Mode a: 5180 - 5250 MHz, 5250 - 5320 MHz Ch. 36 (5180 MHz), Ch. 52 (5260 MHz) & Ch. 64 (5320 MHz) measured unless otherwise noted | | |
| Software Power Gain Settings: | 802.11a set to power setting of 17.0 / 0 for 6 mbps, 14.0 / 0 for 54 mbps | | |
| RF Peak Conducted Output Power Tested:¹ | 802.11a | 6 Mbps | 54 Mbps |
| | 5180 MHz | 15.85 dBm | 13.50 dBm |
| | 5260 MHz | 15.73 dBm | 12.60 dBm |
| | 5320 MHz | 15.38 dBm | 12.59 dBm |
| Modes / Data Rates Tested:² | 802.11a (6, 54 Mbps checked in prescan) (6 Mbps determined to be worst-case spurious and used unless otherwise noted) | | |
| Mode(s) of Operation: | OFDM | | |
| Modulation Type(s): | BPSK, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, CCK | | |
| Power Source(s) Tested: | All tests were performed with the AC Power Adapter powering the DUT | | |

Note 1: Peak power measured and integrated per FCC Public Notice DA 02-2138 Peak conducted output power measurement Option 2, Method 1

Note 2: Turbo mode available at module level but not enabled when installed in IX325 Tablet PC per Itronix Corp.

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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4.7.1 DUT Exercising Software Description

The DUT was configured and exercised using customer supplied test software that allows an operator to set the parameters of the WLAN operation. The settings used are described in each appendix. Unless otherwise noted the power gain settings were set as described in section 5.6 with the worst-case data rate as described in the same section. Software power settings were set as defined by the manufacturer for typical operation.

4.8 Configuration Description

The DUT was configured, as described by the client as being representative of what would be delivered to a final customer. This configuration included the WLAN and internal antenna as described in section 5.2 installed in a typical manner. More specific details may be included in each appendix.


4.8.1 Configuration Justification


The DUT was tested in a configuration described by the client as being worst-case but typical of normal use.

Prescan measurements were made with the WLAN in mode a. The lowest and highest bit rates where tested. The lowest, highest and mid-band channels in the lower frequency band applicable to mode a were investigated. In addition, the three orthogonal DUT orientations were used to determine worse case orientation. From this preliminary data, it was determined that the lowest rate, along with a "Short Edge Up" orientation produced the highest spurious emissions (or highest carrier if no significant difference in spurious emissions were found). Software power settings were made based on information received from the manufacturer. These settings were described as those needed to set the DUT to its highest marketed power. Unless otherwise specified in the applicable appendices, these settings (or higher) were used for the measurements described in this report.


5.0 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 less than or equal to the specified limits as defined. The pass/fail statements made in this report only apply to the unit tested.

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

APPENDICES

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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Appendix A - DUT Photographs

Photograph A-1 - Front of IX325 Tablet PC



Photograph A-2 - Back of IX325 Tablet PC





Photograph A-3 - WLAN Card Installed (cover removed)



Photograph A-4 - WLAN PCMCIA Card



| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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Appendix B - Emission Bandwidth Measurement


| B.1. REFERENCES | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Normative Reference Standard | FCC CFR 47 §15.407 |
| Procedure Reference | FCC DA 02-2138 Appendix A - Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E - August 30, 2002 RSS-GEN 4.4.1 General Requirements and Information for Certification of Radiocommunication Equipment |


| B.2. LIMITS | |
|-------------------------------------------|----------------------------------------------------------------------------------------------------|
| FCC CFR 47 §15.407 IC RSS-210 §Annex 9 | <i>No specified limit: Used for reference only and for determination of other specified limits</i> |

| B.3. ENVIRONMENTAL CONDITIONS | |
|-------------------------------|--------------|
| Temperature | 25 ± 3 °C |
| Humidity | 35 ± 5 % RH |
| Barometric Pressure | uncontrolled |

| B.4. EQUIPMENT LIST | | | | | |
|---------------------|--------------|-----------|------------------------|----------|---------|
| ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE |
| 00015 | Agilent | E4408B | Spectrum Analyzer | 24Jan05 | 24Jan06 |
| Customer supplied | n/a | n/a | 1ft. RG223/U RF Cable | n/a | n/a |
| 00076 | Pasternack | PE7014-30 | 30dB 2 Watt Attenuator | na* | na |

*Verification made prior to measurement

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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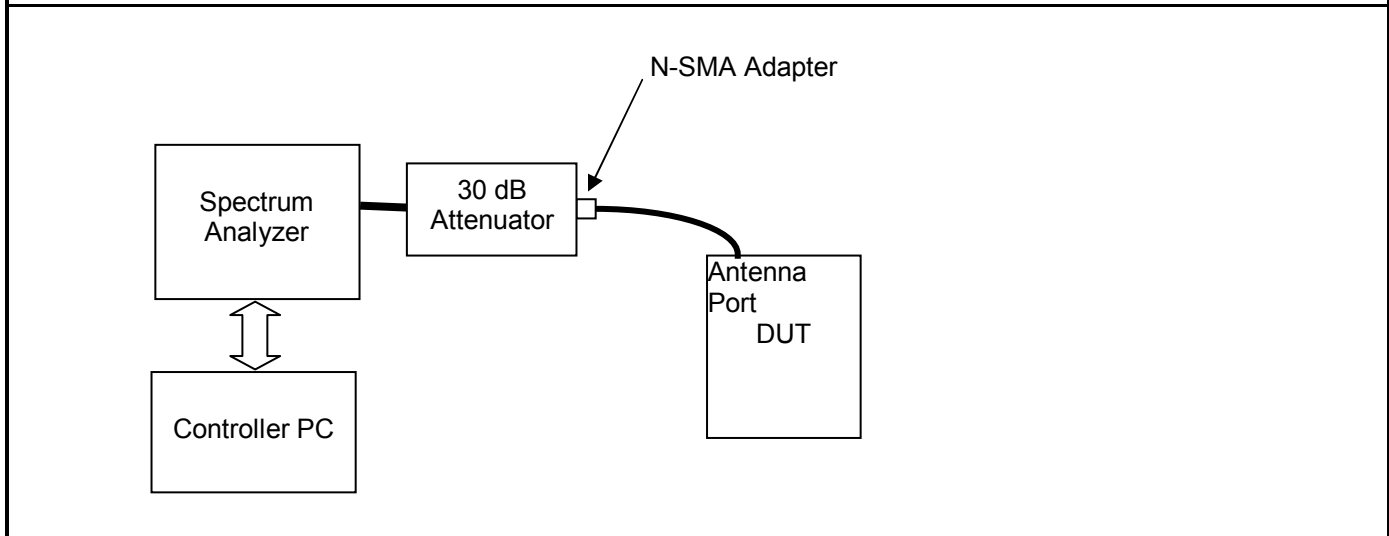
| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
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B.5. MEASUREMENT EQUIPMENT SETUP

| | |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement Equipment Connections | The equipment was connected as shown in the setup drawing in B.6. |
| Measurement Equipment Settings | To evaluate the emission bandwidth, software and a PC controller were used to set the spectrum analyzer using the following setting: RBW – 300 kHz (~ 1% of EBW) VBW – 1 MHz Span – 50 MHz Detector – Peak Average – off Trace - View Offset – appropriate for external attenuation (-31.4 dB) |
| Measurement Procedure | A PC controller was used to record the spectrum analyzer display with the above settings. Software was used to determine the peak level and the points on either side of this peak that were 26 dB lower. The frequency difference between these two points was calculated and reported as the -26 dB emission bandwidth. The software also integrated the power within the span measured and determined frequency points along the trace that represents the first 0.05% and last 0.05% of the total power. Using these points as upper and lower limits, the band representing the center 99% of the power is determined and its width recorded as the 99% emission bandwidth. |

B.6. SETUP DRAWING

Figure B.6-1 - Setup Drawing



B.7. DUT OPERATING DESCRIPTION

Measurements were made at three channels throughout the lower band applicable for Mode a (5180 - 5320 MHz) with both the lowest and highest data rates. (6 & 54 mbps)

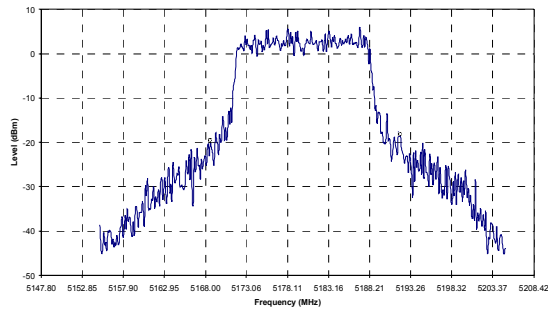


| | | | |
|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
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| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

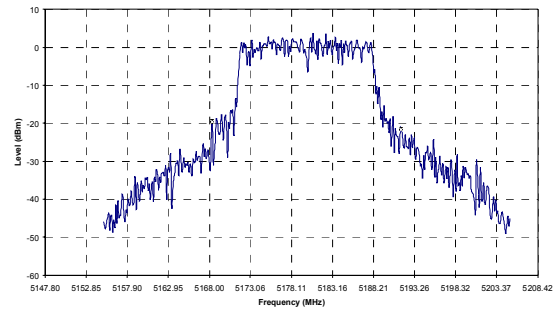
B.8. TEST RESULTS

B.8.1. Mode a -26 dB Emission Bandwidth

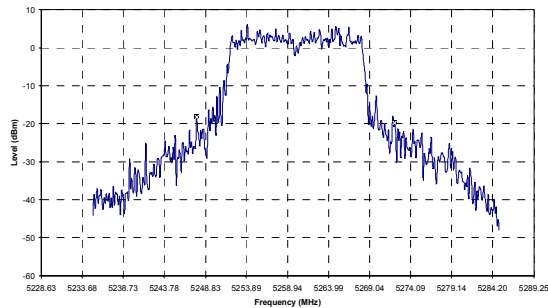
CISCO WLAN abg Setting 17.0 & 0.6 mbps, Frequency = 5180 MHz, Mode a, -26 dB Emission Bandwidth = 23.38 MHz with an RBW of 300 kHz



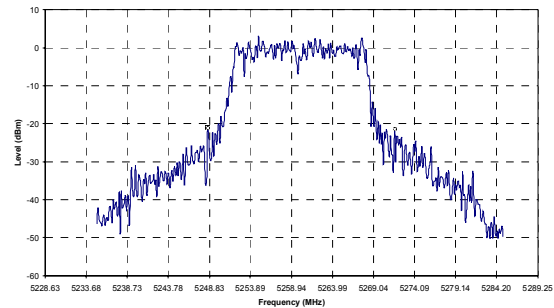
CISCO WLAN abg Setting 14.0 & 0.54 mbps, Frequency = 5180 MHz, Mode a, -26 dB Emission Bandwidth = 23.25 MHz with an RBW of 300 kHz



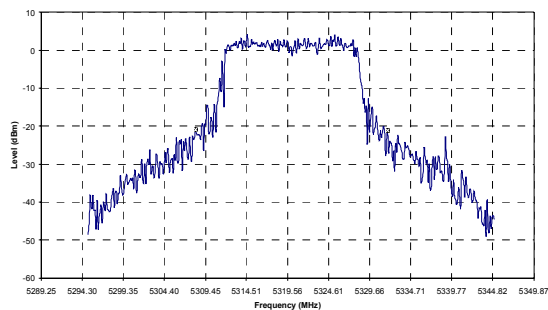
CISCO WLAN abg Setting: 17.0 & 0.6 mbps, Frequency = 5260 MHz, Mode a, -26 dB Emission Bandwidth = 24.38 MHz with an RBW of 300 kHz



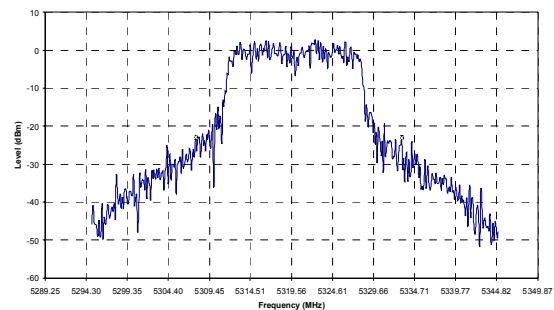
CISCO WLAN abg Setting 14.0 & 0.54 mbps, Frequency = 5260 MHz, Mode a, -26 dB Emission Bandwidth = 23.00 MHz with an RBW of 300 kHz



CISCO WLAN abg Setting: 17.0 & 0.6 mbps, Frequency = 5320 MHz, Mode a, -26 dB Emission Bandwidth = 23.63 MHz with an RBW of 300 kHz



CISCO WLAN abg Setting: 14.0 & 0.54 mbps, Frequency = 5320 MHz, Mode a, -26 dB Emission Bandwidth = 25.38 MHz with an RBW of 300 kHz

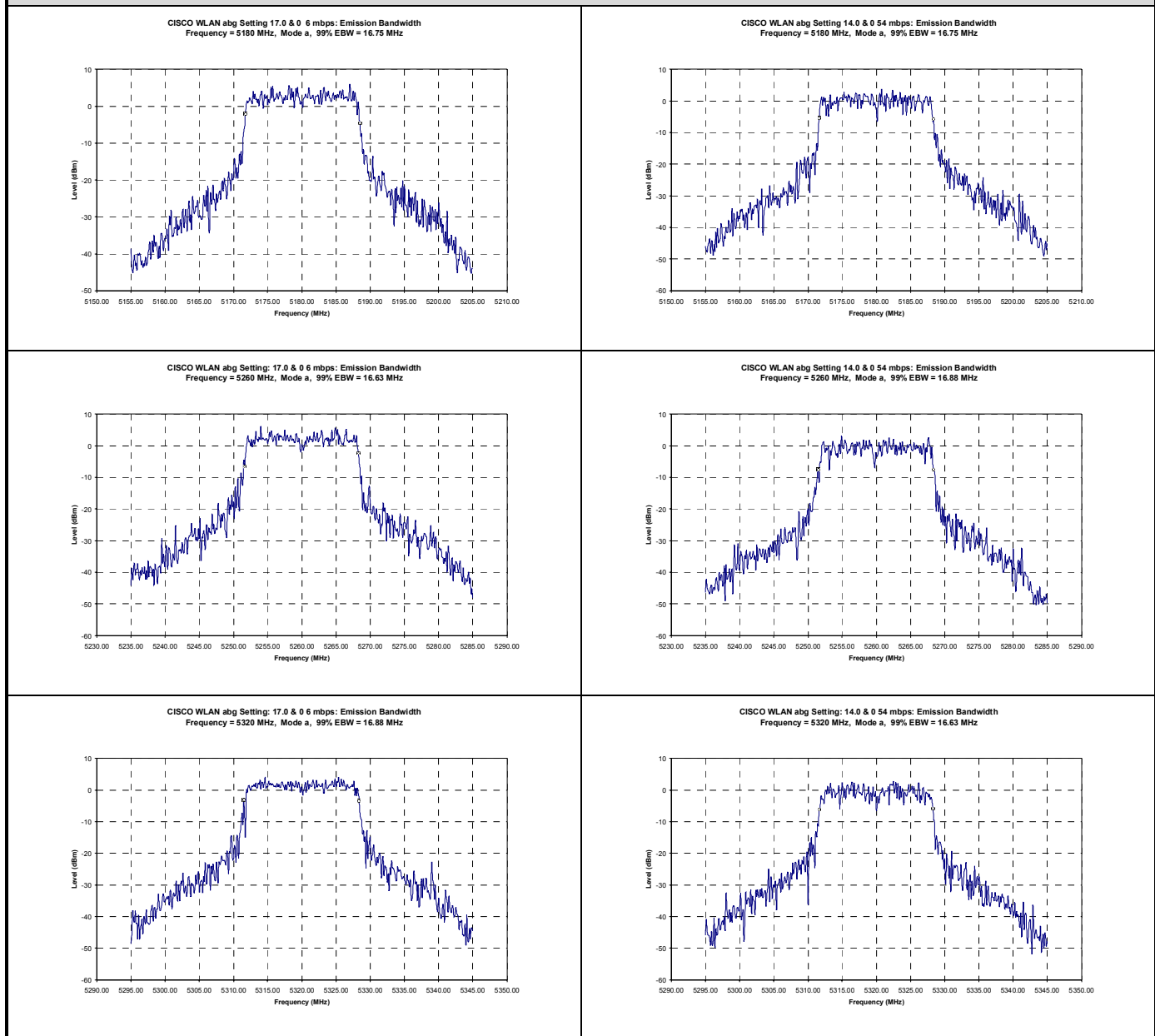


| | | | | | | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------|---------------|---------------|---------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab | |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

B.8.2. Mode a 99% Emission Bandwidth



| Channel | Channel Frequency (MHz) | -26 dB Bandwidth | | 99% Bandwidth | |
|---------|-------------------------|------------------|---------------|---------------|---------------|
| | | 6 mbps (MHz) | 54 mbps (MHz) | 6 mbps (MHz) | 54 mbps (MHz) |
| 36 | 5180 | 23.38 | 23.25 | 16.75 | 16.75 |
| 52 | 5260 | 24.38 | 23.00 | 16.63 | 16.88 |
| 64 | 5320 | 23.63 | 25.38 | 16.88 | 16.63 |


| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
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| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

B.9. PASS/FAIL

No pass/fail criteria specified for this measurement. For reference only.


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.



 Duane M. Friesen, C.E.T.
 EMC Manager
 Celltech Labs Inc.

 24Oct05
 Date

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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Appendix C - Transmitter Output Power Measurement

| C.1. REFERENCES | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Normative Reference Standard | FCC CFR 47 §15.407(a) (1), &(2) |
| Procedure Reference | FCC DA 02-2138 Appendix A - Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E - August 30, 2002 IC RSS-210 Annex 9.2 §(1)&(2) - Low-power License-exempt Radiocommunications Devices |

| C.2. LIMITS | |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C.2.1. FCC CFR | |
| §15.407(a) (1): | <i>For the band 5.15 – 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10logB, where B is the 26-dB emission bandwidth in MHz....</i> |
| §15.407(a) (2): | <i>For the band 5.25 – 5.35 GHz, and 5.47 – 5.725 bands, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11dBm + 10logB, where B is the 26 dB emission bandwidth in megahertz...</i> |
| C.2.2. IC RSS-210 ^{Note4} | |
| §A9.2 (1): | <i>For the band 5150 – 5250 MHz, the maximum equivalent isotropic radiated output power (e.i.r.p.) shall not exceed 200 mW or 10 + 10logB, dBm, whichever is less. B is the 99% emission bandwidth in MHz....</i> |
| §A9.2 (2): | <i>For the band 5205 – 5350 MHz, and 5470 – 5725 bands, the maximum conducted output power shall not exceed 250 mW or 11dBm + 10log₁₀B, dBm, whichever is less. The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10log₁₀B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz...</i> |

Note 1: The -26 dB & 99% emission bandwidth for each channel is outlined in Appendix B of this report.

Note 2: In reference to information provided by the manufacturer and outlined in section 4.2 of this report, the transmitting antenna used has a direction gain less than 6 dBi.


Note 3: Peak power spectral density is outlined in Appendix I of this report.


Note 4: In reference to IC RSS-Gen, 4.6 paragraph 4, conducted power measurements were made at the antenna port and the measured value applied to the e.i.r.p limit.

| C.3. ENVIRONMENTAL CONDITIONS | |
|-------------------------------|--------------|
| Temperature | 25 ± 3 °C |
| Humidity | 35 ± 5 % RH |
| Barometric Pressure | uncontrolled |

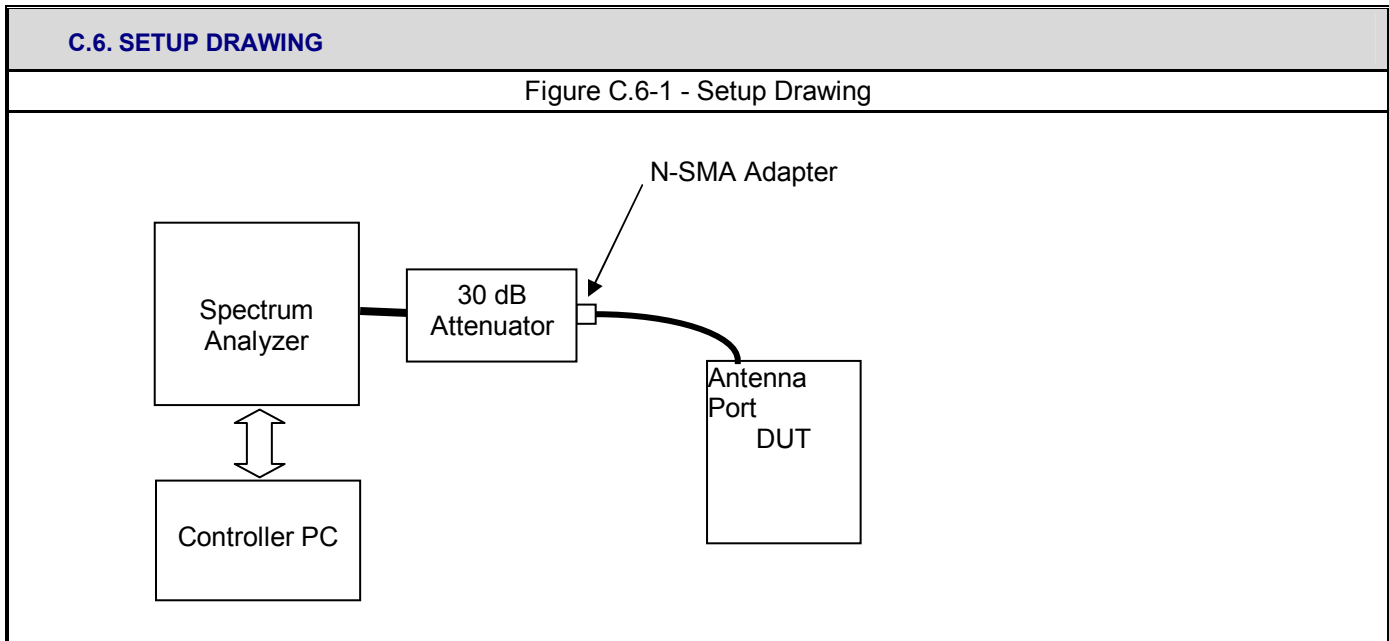
| C.4. EQUIPMENT LIST | | | | | |
|---------------------|--------------|-----------|------------------------|----------|---------|
| ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE |
| 00015 | Agilent | E4408B | Spectrum Analyzer | 24Jan05 | 24Jan06 |
| Customer supplied | n/a | n/a | 1ft. RG223/U RF Cable | n/a | n/a |
| 00076 | Pasternack | PE7014-30 | 30dB 2 Watt Attenuator | na* | na |

*Verification made prior to measurement

| | | | | | | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

| C.5. MEASUREMENT EQUIPMENT SETUP | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|-------------|-------------|-------------|-------------|-------------------|-------------------|------------------|------------------|-----------------------------------|-----------------|---------------|------------------|--------------|--------------|----------------------------------------------------------|----------------------------------------------------------|
| Measurement Equipment Connections | The equipment was connected as shown in the setup drawing in C.6. | | | | | | | | | | | | | | | | | | |
| Measurement Equipment Settings | <p>To evaluate the maximum peak power, with the following spectrum analyzer settings were used:</p> <table border="0"> <tr> <td>[x] Option 2 Method 1</td> <td>[] Option 2 Method 3</td> </tr> <tr> <td>RBW – 1 MHz</td> <td>RBW – 1 MHz</td> </tr> <tr> <td>VBW – 3 MHz</td> <td>VBW – 3 MHz</td> </tr> <tr> <td>Detector – Sample</td> <td>Detector – Sample</td> </tr> <tr> <td>Display - Linear</td> <td>Display - Linear</td> </tr> <tr> <td>Averaging – On, Power, 100 traces</td> <td>Averaging – off</td> </tr> <tr> <td>Trace - Write</td> <td>Trace - Max Hold</td> </tr> <tr> <td>Span -25 MHz</td> <td>Span -25 MHz</td> </tr> <tr> <td>Offset – appropriate for external attenuation (-31.4 dB)</td> <td>Offset – appropriate for external attenuation (-31.4 dB)</td> </tr> </table> | [x] Option 2 Method 1 | [] Option 2 Method 3 | RBW – 1 MHz | RBW – 1 MHz | VBW – 3 MHz | VBW – 3 MHz | Detector – Sample | Detector – Sample | Display - Linear | Display - Linear | Averaging – On, Power, 100 traces | Averaging – off | Trace - Write | Trace - Max Hold | Span -25 MHz | Span -25 MHz | Offset – appropriate for external attenuation (-31.4 dB) | Offset – appropriate for external attenuation (-31.4 dB) |
| [x] Option 2 Method 1 | [] Option 2 Method 3 | | | | | | | | | | | | | | | | | | |
| RBW – 1 MHz | RBW – 1 MHz | | | | | | | | | | | | | | | | | | |
| VBW – 3 MHz | VBW – 3 MHz | | | | | | | | | | | | | | | | | | |
| Detector – Sample | Detector – Sample | | | | | | | | | | | | | | | | | | |
| Display - Linear | Display - Linear | | | | | | | | | | | | | | | | | | |
| Averaging – On, Power, 100 traces | Averaging – off | | | | | | | | | | | | | | | | | | |
| Trace - Write | Trace - Max Hold | | | | | | | | | | | | | | | | | | |
| Span -25 MHz | Span -25 MHz | | | | | | | | | | | | | | | | | | |
| Offset – appropriate for external attenuation (-31.4 dB) | Offset – appropriate for external attenuation (-31.4 dB) | | | | | | | | | | | | | | | | | | |
| Measurement Procedure | A PC controller was used to record the spectrum analyzer display with the above settings. Software was used to integrate the values recorded within the –26dB band. The resulting channel power was recorded and reported herein. | | | | | | | | | | | | | | | | | | |



C.7. DUT OPERATING DESCRIPTION

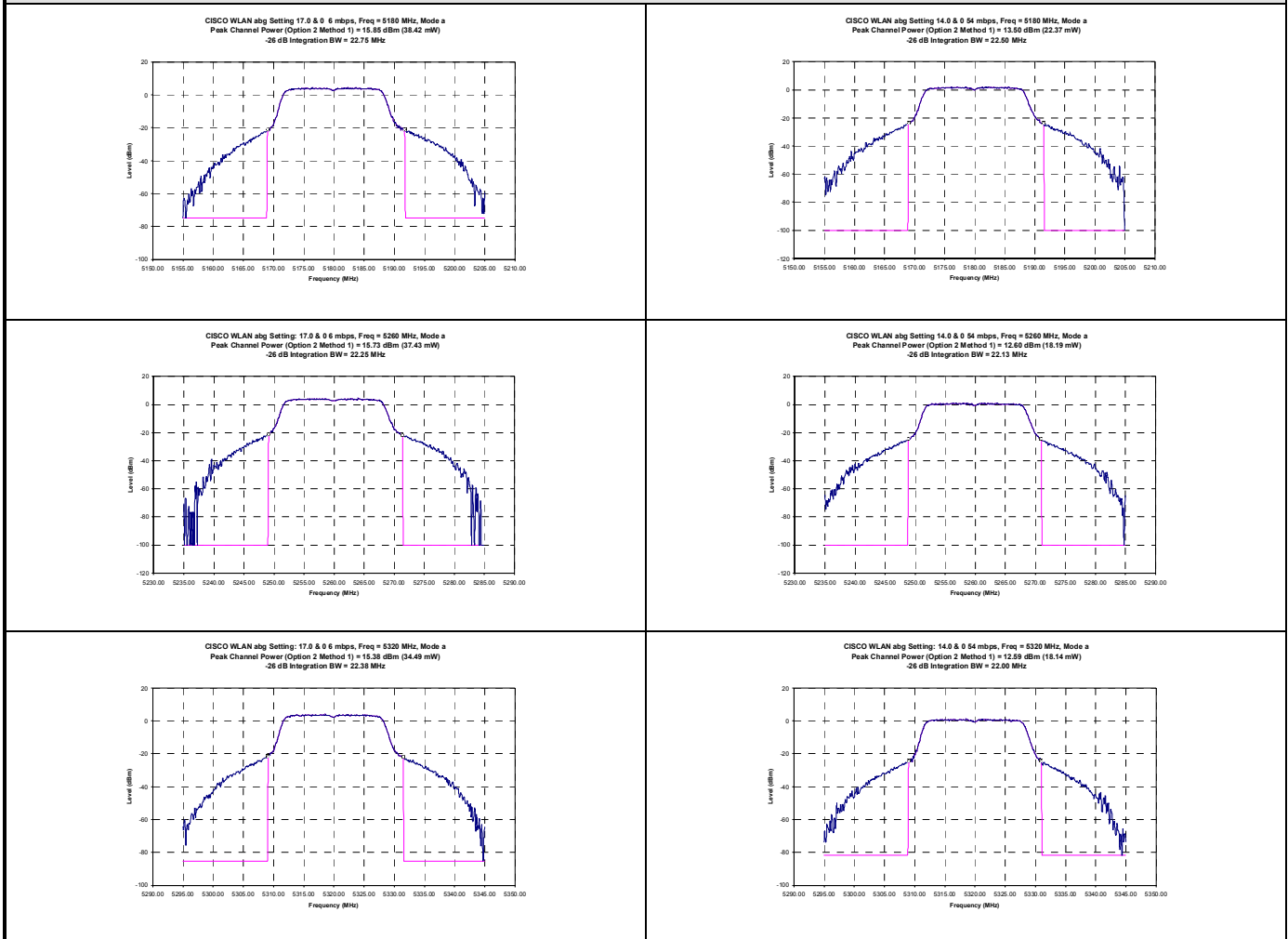
Measurements were made at three channels throughout the lower band applicable for Mode a (5180 - 5320 MHz) and at both the highest and lowest applicable data rates.



| | | | |
|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
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C.8. TEST RESULTS

C.8.1. Conducted Output Power (-26 dB Bandwidth)



| Channel | Frequency MHz | 802.11a | | | | | | | | | | | Pass/Fail |
|-------------|------------------|-------------------|----------------------|---------|------------------------------|-------------------------------|--------|----------------------|------------------|----------------------|------------------|------|-----------|
| | | Data Rate Mb/s | Peak Conducted Power | | Integration Bandwidth MHz | -26 dB Emission Bandwidth (B) | | Limit ¹ | | | | | |
| | | | dBm | Watts | | MHz | 10logB | Limit 1 ² | | Limit 1 ³ | | | |
| | | | | | | | | dBm ⁴ | dBm ⁵ | mW | dBm ⁶ | | |
| CH36 (Low) | 5180 | 6 | 15.85 | 0.03840 | 22.75 | 23.38 | 13.69 | 4 | 17.69 | 50 | 17 | Pass | |
| | | 54 | 13.50 | 0.0224 | 22.50 | 23.25 | 13.66 | 4 | 17.66 | 50 | 17 | Pass | |
| CH52 (Mid) | 5260 | 6 | 15.73 | 0.0374 | 22.25 | 24.38 | 13.87 | 11 | 24.87 | 250 | 24 | Pass | |
| | | 54 | 12.60 | 0.0182 | 22.13 | 23.00 | 13.62 | 11 | 24.62 | 250 | 24 | Pass | |
| CH64 (High) | 5320 | 6 | 15.38 | 0.0345 | 22.38 | 23.63 | 13.73 | 11 | 24.73 | 250 | 24 | Pass | |
| | | 54 | 12.59 | 0.0181 | 22.00 | 25.38 | 14.04 | 11 | 25.04 | 250 | 24 | Pass | |

Note 1: Applicable limit is the minimum value between Limit 1 & Limit 2.

Note 2: Limit based on $\text{dBm}^4 + 10\log B = \text{dBm}^5$

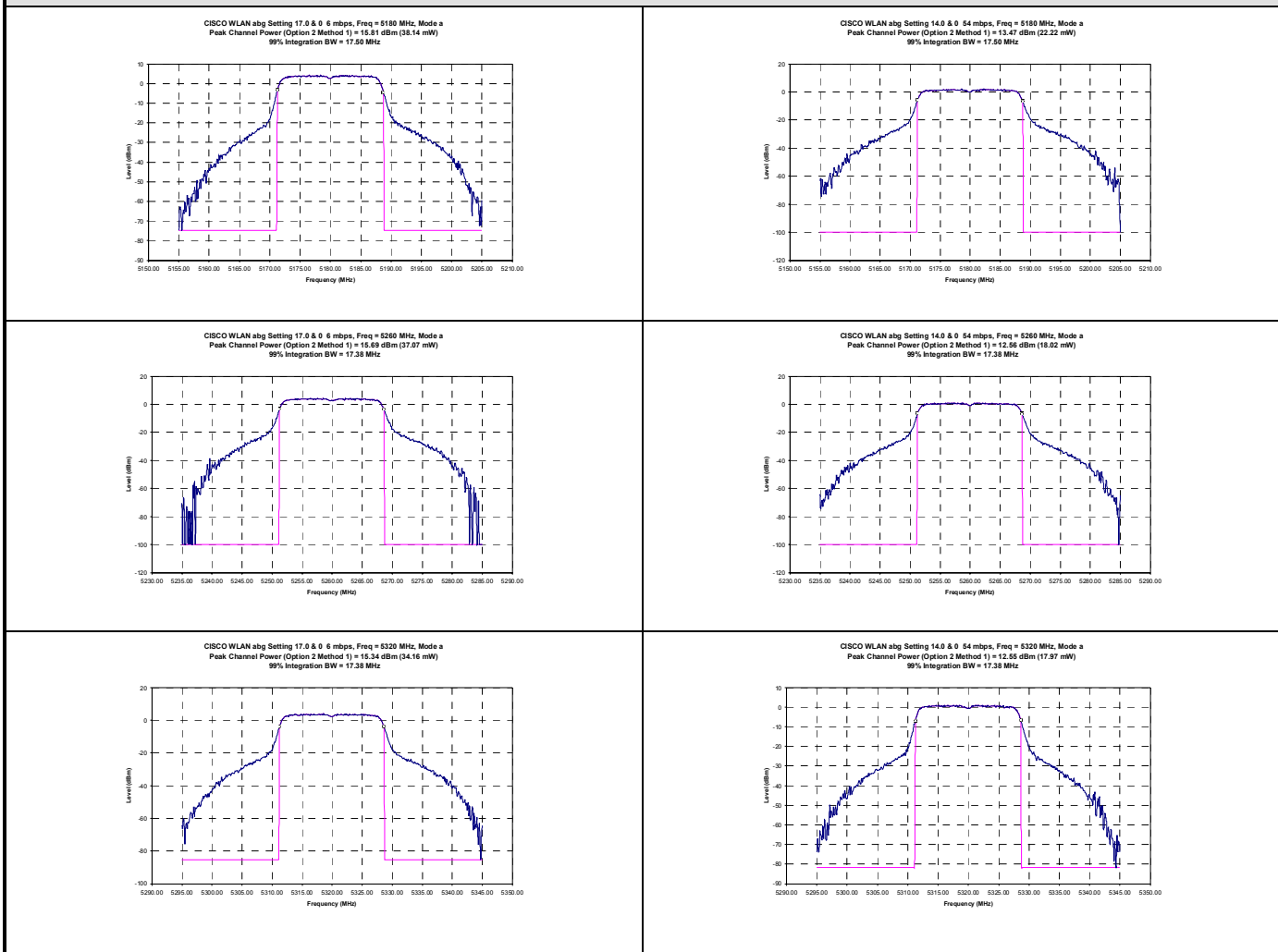
Note 3: Limit based on $10\log(\text{mW}) = \text{dBm}^6$

| | | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|--|---------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab | | |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | | |
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| | | | |
|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

C.8.2. Conducted Output Power (99% Bandwidth)



| Channel | Frequency | 802.11a | | | | | | | | | | Pass/Fail |
|-------------|-----------|-----------|----------------------|--------|-----------------------|-------------------------------|--------|----------------------|------------------|----------------------|------------------|-----------|
| | | Data Rate | Peak Conducted Power | | Integration Bandwidth | 99% dB Emission Bandwidth (B) | | Limit ¹ | | | | |
| | | Mb/s | dBm | Watts | MHz | MHz | 10logB | Limit 1 ² | | Limit 1 ³ | | |
| | | | | | | | | dBm ⁴ | dBm ⁵ | mW | dBm ⁶ | |
| CH36 (Low) | 5180 | 6 | 15.81 | 0.0381 | 17.50 | 16.75 | 12.24 | 10 | 22.24 | 200 | 23 | Pass |
| | | 54 | 13.47 | 0.0222 | 17.50 | 16.75 | 12.24 | 10 | 22.24 | 200 | 23 | Pass |
| CH52 (Mid) | 5260 | 6 | 15.69 | 0.0371 | 17.38 | 16.63 | 12.21 | 11 | 23.21 | 250 | 24 | Pass |
| | | 54 | 12.56 | 0.0180 | 17.38 | 16.88 | 12.27 | 11 | 23.27 | 250 | 24 | Pass |
| CH64 (High) | 5320 | 6 | 15.34 | 0.0342 | 17.38 | 16.88 | 12.27 | 11 | 23.27 | 250 | 24 | Pass |
| | | 54 | 12.55 | 0.0180 | 17.38 | 16.63 | 12.21 | 11 | 23.27 | 250 | 24 | Pass |

Note 1: Applicable limit is the minimum value between Limit 1 & Limit 2.
 Note 2: Limit based on $\text{dBm}^4 + 10\log B = \text{dBm}^5$
 Note 3: Limit based on $10\log(\text{mW}) = \text{dBm}^6$

| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

C.9. PASS/FAIL

In reference to the results outlined in C.8 the DUT passes the requirements as stated in the reference standards as follows:

FCC 15.407 (a) (1): The maximum conducted output power over the 5180 - 5250 MHz frequency range did not exceed 50 mW or 4 dBm+10logB (with B=EBW in MHz).

The maximum power within the 5180 - 5320 MHz frequency range was measured for Channel 36 (5180 MHz, 6 mbps) with a power of 15.85 dBm vs. a limit of 17 dBm (50 mW) [15.81 dBm vs. a limit of 22.24dBm (200 mW) for Industry Canada].

FCC 15.407 (a) (2): The maximum conducted output power over the 5250 - 5320 MHz frequency range did not exceed 250 mW or 11 dBm+10logB (with B=EBW in MHz).

The maximum power within the 5250 - 5320 MHz frequency range was measured for Channel 52 (5260 MHz, 6 mbps) with a power of 15.73 dBm vs. a limit of 24 dBm (250 mW) [15.69 dBm vs. a limit of 23.27dBm (250 mW) for Industry Canada].


C.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.



 Duane M. Friesen, C.E.T.
 EMC Manager
 Celltech Labs Inc.

 24Oct05
 Date

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

Appendix D - Peak Excursion Ratio Measurement


| D.1. REFERENCES | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Normative Reference Standard | FCC CFR 47§15.407 (a) (6) |
| Procedure Reference | FCC DA 02-2138 Appendix A - Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E August 30, 2002 |


| D.2. LIMITS | |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC CFR 47§15.407 (a) (6) | <i>The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.</i> |

| D.3. ENVIRONMENTAL CONDITIONS | |
|-------------------------------|--------------|
| Temperature | 25 ± 3 °C |
| Humidity | 35 ± 5 % RH |
| Barometric Pressure | uncontrolled |

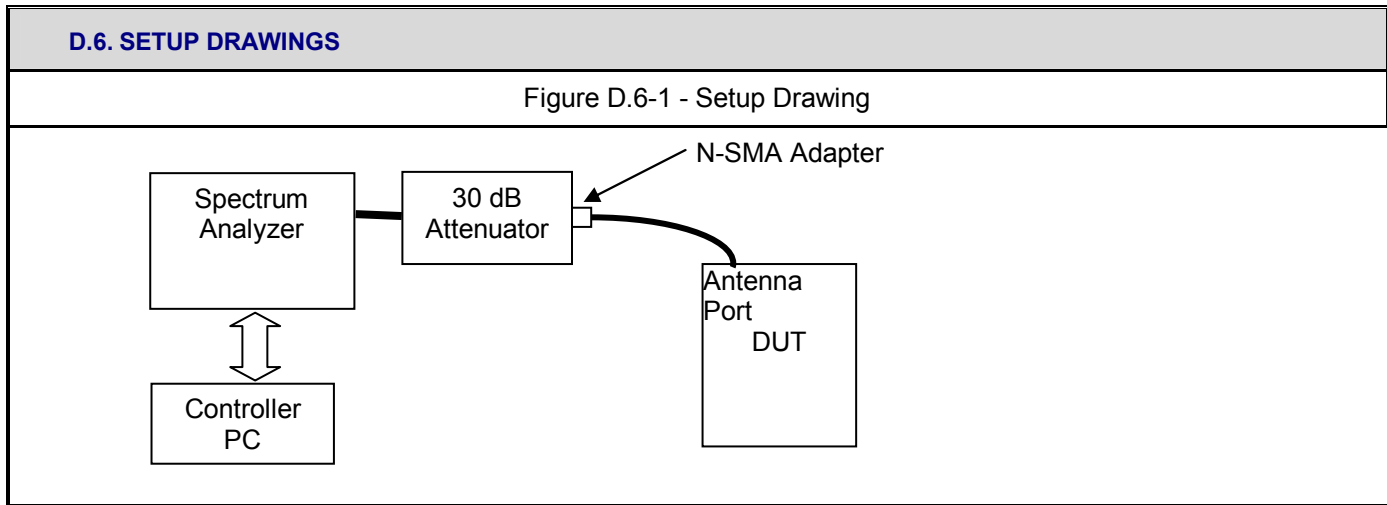
| D.4. EQUIPMENT LIST | | | | | |
|---------------------|--------------|-----------|------------------------|----------|---------|
| ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE |
| 00015 | Agilent | E4408B | Spectrum Analyzer | 24Jan05 | 24Jan06 |
| Customer supplied | n/a | n/a | 1ft. RG223/U RF Cable | n/a | n/a |
| 00076 | Pasternack | PE7014-30 | 30dB 2 Watt Attenuator | na* | na |

*Verification made prior to measurement

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

| D.5. MEASUREMENT EQUIPMENT SETUP | |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASUREMENT EQUIPMENT CONNECTIONS | The equipment was connected as shown in the setup drawing in D.6. |
| MEASUREMENT EQUIPMENT SETTINGS | To evaluate the peak excursion ratio, two measurements need to be made. |
| | <p>Trace 1 Settings: RBW – 1 MHz VBW – 3 MHz Detector – Peak Averaging – off Max Hold – on</p> <p>Trace 2 Settings: [x] Option 2 Method 1 RBW – 1 MHz VBW – 3 MHz Detector – Sample Display - Linear Averaging – On, Power, 100 traces Trace - Write Span -25 MHz Offset – appropriate for external attenuation (-31.4 dB)</p> |
| Measurement Procedure | A PC controller was used to record the spectrum analyzer display with the above settings. Software was used to determine the difference between the two traces at the maximum peak value within their emission bandwidth. |

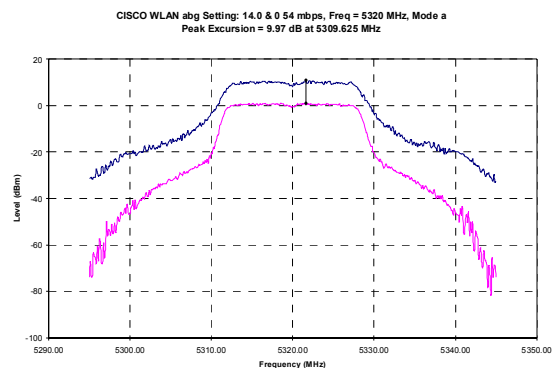
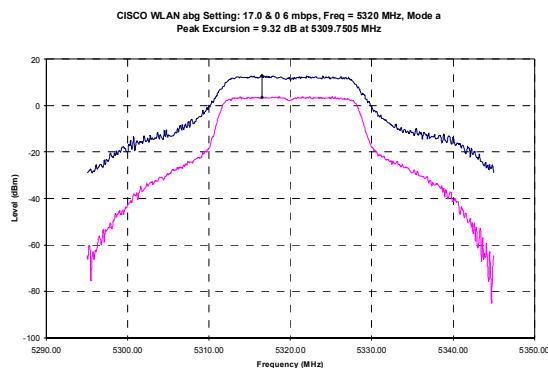
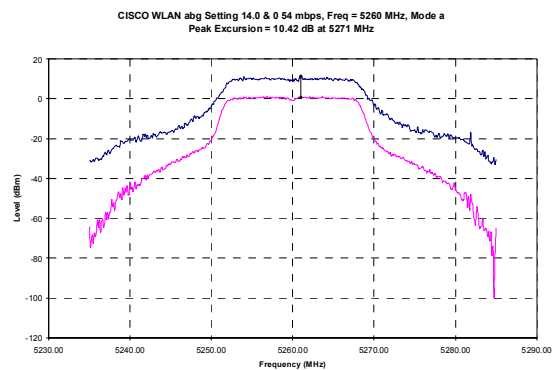
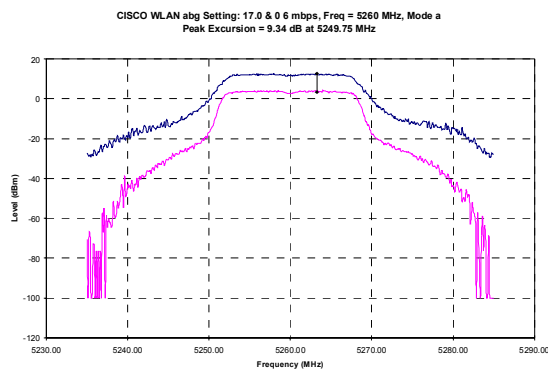
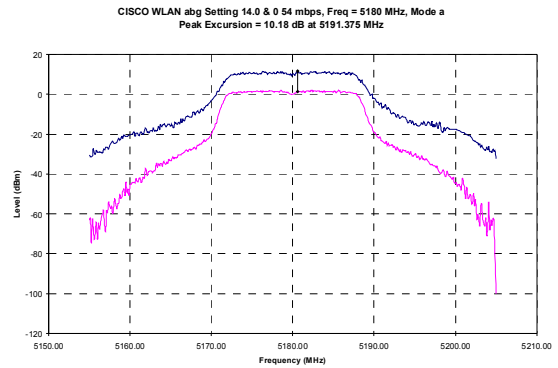
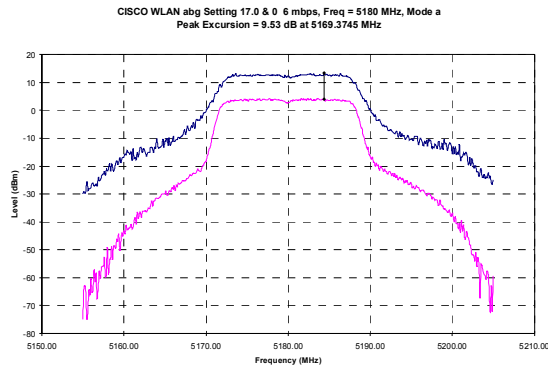


| D.7. DUT OPERATING DESCRIPTION |
|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurements were made at three channels throughout the lower band applicable for Mode a (5180 - 5320 MHz) with the lowest and highest data rates. |




| | | | |
|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

D.8. TEST RESULTS



| Channel | Channel Frequency (MHz) | Peak Excursion Ratio | | Limit (dB) | Pass/Fail |
|---------|-------------------------|----------------------|--------------|------------|-----------|
| | | 6 Mbps (dB) | 54 Mbps (dB) | | |
| 36 | 5180 | 9.53 | 10.18 | 13 | Pass |
| 52 | 5260 | 9.34 | 10.42 | 13 | Pass |
| 64 | 5320 | 9.32 | 9.97 | 13 | Pass |

| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

D.9. PASS/FAIL

In reference to the results outlined in D.8 the DUT passes the requirements as stated in the reference standards as follows:

FCC CFR 47§15.407 (a) (6): The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

A maximum peak excursion of 10.42 dB was the highest measurement determined and was found at 5271 MHz with Channel 52 transmitting.


D.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.



 Duane M. Friesen, C.E.T.
 EMC Manager
 Celltech Labs Inc.

 24Oct05
 Date

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

Appendix E - Conducted Transmitter Spurious Emissions Measurement

| E.1. REFERENCES | |
|-------------------------------------|-------------------------|
| Normative Reference Standard | IC RSS-210§A9.3 (1) (2) |
| Procedure Reference | IC RSS-GEN§4.7 |


| E.2. LIMITS | |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| IC RSS-210§A9.3 (1) (2)* | (1) For transmitters operating in the 5150 – 5250 MHz band: all emissions outside of the 5150 - 5350 MHz band shall not exceed –27 dBm/MHz e.i.r.p. |
| | (2) For transmitters operating in the 5250 – 5350 MHz band: all emissions outside of the 5150 – 5350 GHz band shall not exceed an EIRP of –27 dBm/MHz... |


*Reference only

| E.3. ENVIRONMENTAL CONDITIONS | |
|-------------------------------|--------------|
| Temperature | 25 ± 3 °C |
| Humidity | 35 ± 5 % RH |
| Barometric Pressure | uncontrolled |

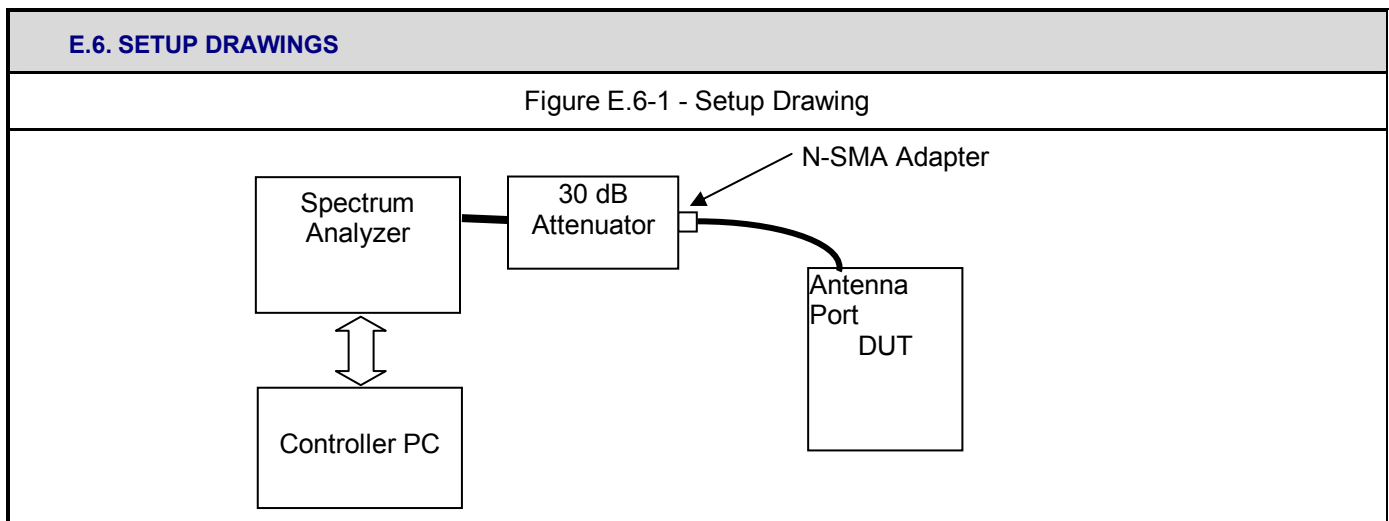
| E.4. EQUIPMENT LIST | | | | | |
|---------------------|--------------|-----------|------------------------|----------|---------|
| ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE |
| 00015 | Agilent | E4408B | Spectrum Analyzer | 24Jan05 | 24Jan06 |
| Customer supplied | n/a | n/a | 1ft. RG223/U RF Cable | n/a | n/a |
| 00076 | Pasternack | PE7014-30 | 30dB 2 Watt Attenuator | na* | na |

*Verification made prior to measurement

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

| E.5. MEASUREMENT EQUIPMENT SETUP | |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASUREMENT EQUIPMENT CONNECTIONS | The equipment was connected as shown in the setup drawing in E.6. |
| MEASUREMENT EQUIPMENT SETTINGS | RBW – 1 MHz VBW – 1 MHz Span – Carrier region – 0.6 MHz / 5 bands, Outside carrier region - 22 GHz / 12 bands Detector – Peak Averaging – off Max Hold – on |
| Measurement Procedure | A PC controller was used to record the spectrum analyzer display with the above settings. It was used to set the spans and collect the data. Software was used to present a graphical presentation of the combined data collected for each channel. |

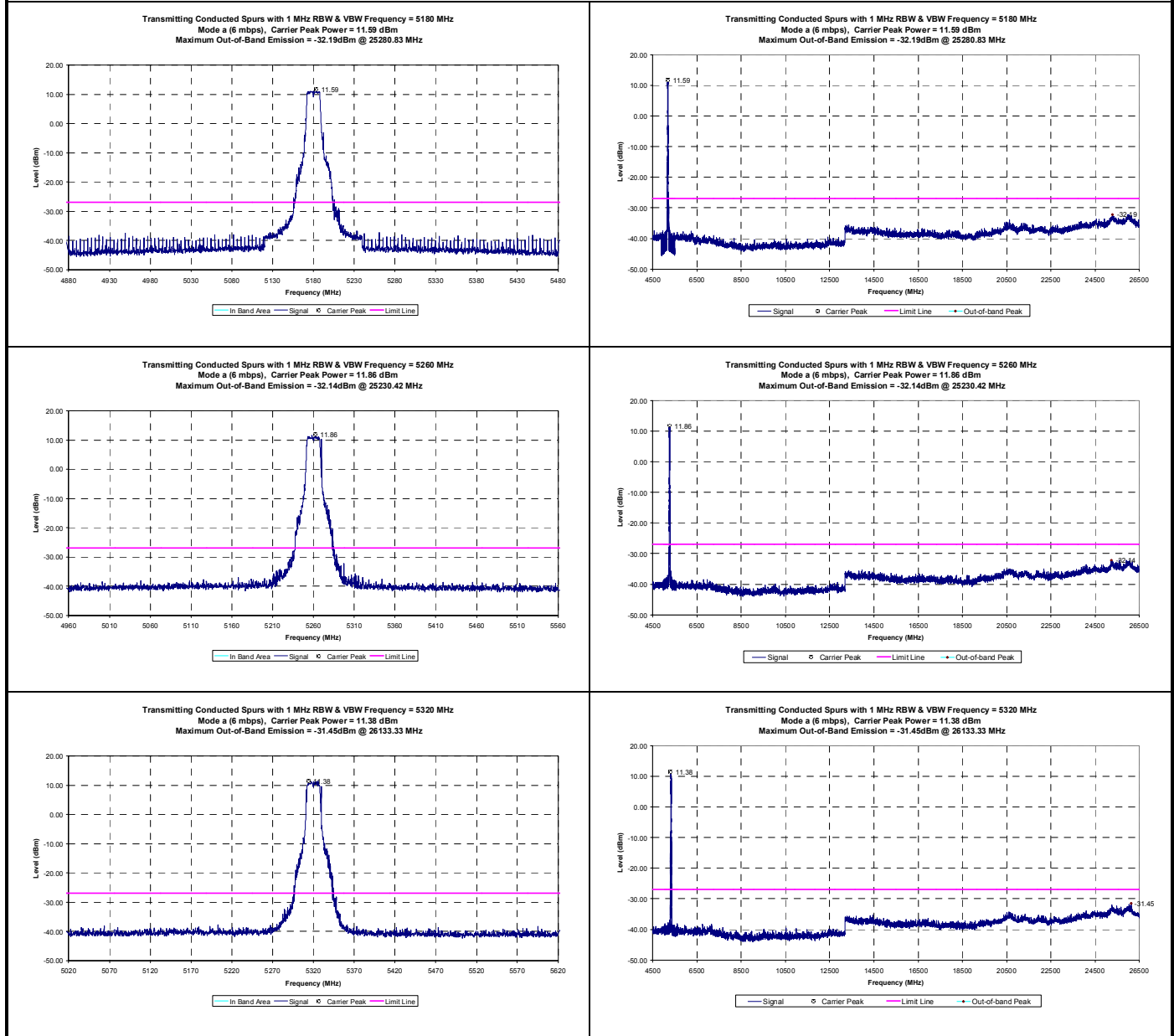


| E.7. DUT OPERATING DESCRIPTION | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Measurements were made at three channels throughout the lower band applicable for Mode a (5180 - 5320 MHz) and at both the highest and lowest applicable data rates. | |

| | | | |
|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

E.8. TEST RESULTS

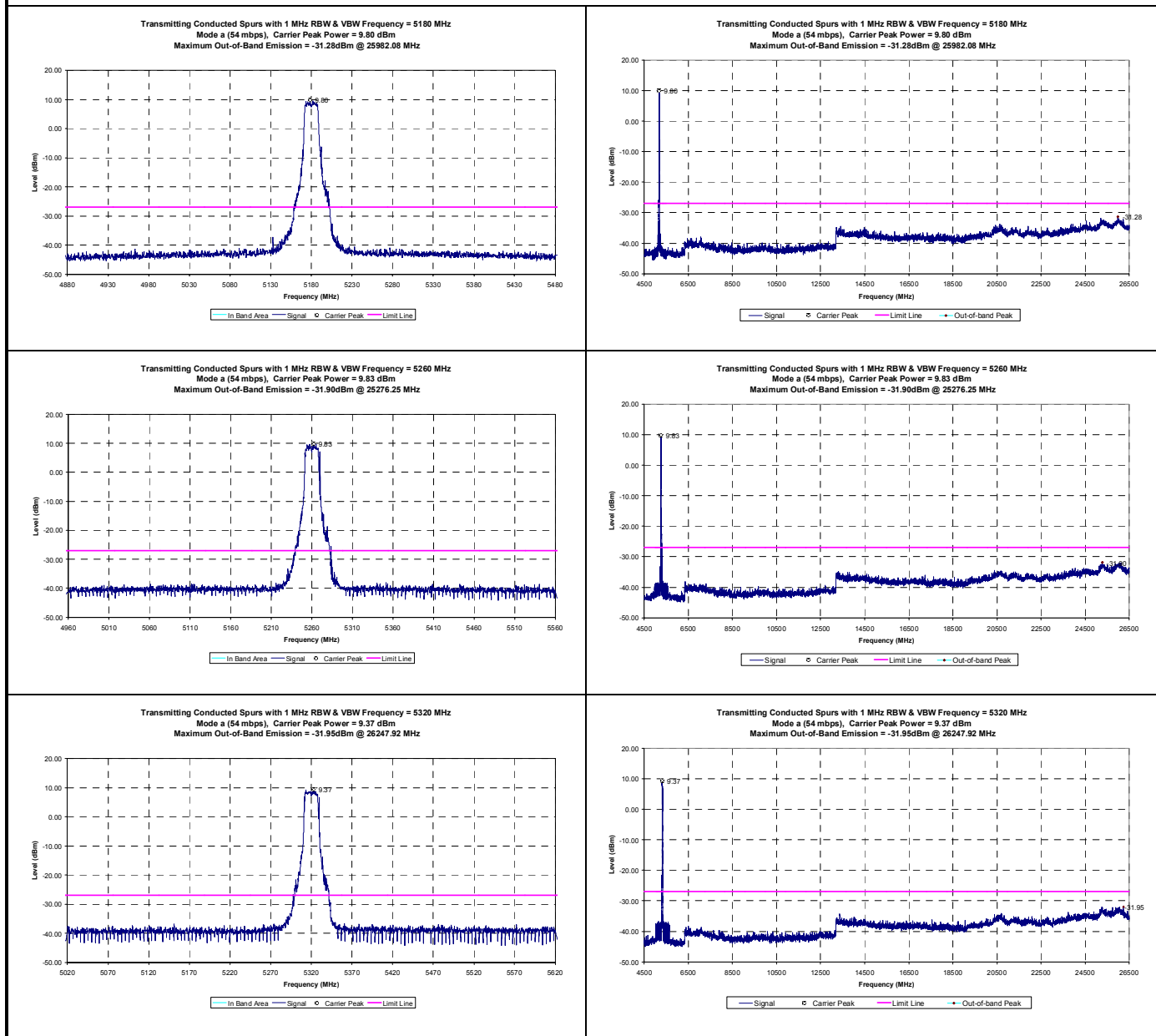
E.8.1. 6 Mbps






| | | | |
|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

E.8.2. 54 Mbps



E.8.3. Summary

| Channel | Channel Frequency (MHz) | Highest Conducted Out-of-band Transmit Spurious Emission | | | |
|---------|-------------------------|----------------------------------------------------------|-------------|-----------------|-------------|
| | | 6 mbps | | 54 mbps | |
| | | Frequency (MHz) | Level (dBm) | Frequency (MHz) | Level (dBm) |
| 36 | 5180 | 25280.83 | -32.19 | 25982.08 | -31.28 |
| 52 | 5260 | 25230.42 | -32.14 | 25276.25 | -31.90 |
| 64 | 5320 | 26133.33 | -31.45 | 26247.92 | -31.95 |


| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

E.9. PASS/FAIL

The conducted transmitter spurious emissions measurements were made for reference only for use in the determination of final OATS field strength measurements.


E.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.



Duane M. Friesen, C.E.T.
EMC Manager
Celltech Labs Inc.

14Nov05
Date

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

Appendix F - Conducted Receiver Spurious Emissions Measurement


| F.1. REFERENCES | |
|-------------------------------------|--------------------|
| Normative Reference Standard | IC RSS-GEN§6 (b) |
| Procedure Reference | IC RSS-GEN§4.8 (b) |


| F.2. LIMITS | |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IC RSS-GEN§6 | <i>(b) If a conducted measurement is made, no spurious output signals appearing at the antenna terminals shall exceed 2 nanowatts per 4 kHz spurious frequency in the band 30-1000 MHz, or 5 nanowatts above 1 GHz.</i> |

| F.3. ENVIRONMENTAL CONDITIONS | |
|-------------------------------|--------------|
| Temperature | 25 ± 3 °C |
| Humidity | 35 ± 5 % RH |
| Barometric Pressure | uncontrolled |

| F.4. EQUIPMENT LIST | | | | | |
|---------------------|--------------|-----------|-------------------------|----------|---------|
| ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE |
| 00015 | Agilent | E4408B | Spectrum Analyzer | 24Jan05 | 24Jan06 |
| Customer supplied | n/a | n/a | 1ft. RG223/U RF Cable | n/a | n/a |
| 00076 | Pasternack | PE7014-30 | 2x2dB 2 Watt Attenuator | na* | na |

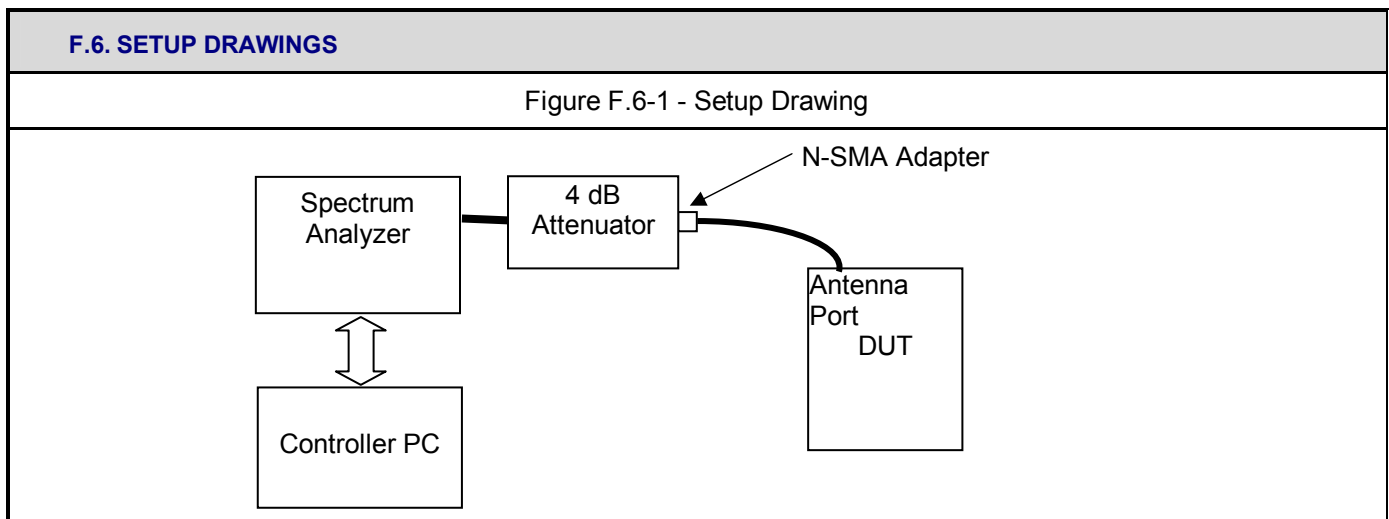
*Verification made prior to measurement

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

| F.5. MEASUREMENT EQUIPMENT SETUP | |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASUREMENT EQUIPMENT CONNECTIONS | The equipment was connected as shown in the setup drawing in F.6. |
| MEASUREMENT EQUIPMENT SETTINGS | RBW – 100 kHz* VBW – 1 MHz Span – Carrier region – 0.6 MHz / 5 bands, Outside carrier region - 22 GHz / 12 bands Detector – Peak Averaging – off Max Hold – on Sweeps - 20 |
| Measurement Procedure | A PC controller was used to record the spectrum analyzer display with the above settings. It was used to set the spans and collect the data. Software was used to present a graphical presentation of the combined data collected for each channel. |

*100 kHz RBW vs. 4 kHz (specified in the reference document) used to reduce test time

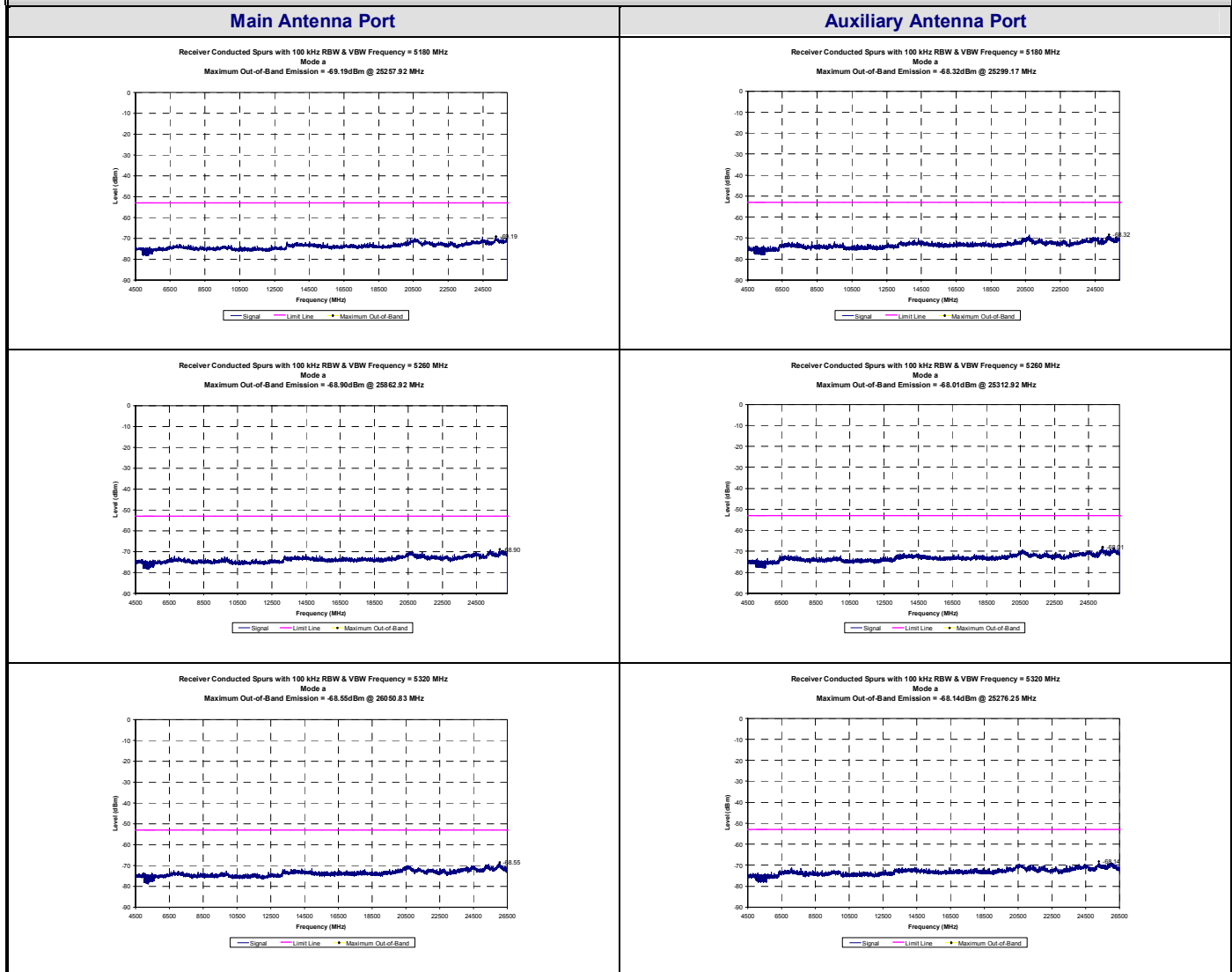


| F.7. DUT OPERATING DESCRIPTION |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurements were made at three channels throughout the lower band applicable for Mode a (5180 - 5320 MHz), (low and high for reference only). Measurements were made at both available receive antenna ports. |



| | | | |
|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |


F.8. TEST RESULTS



| Auxiliary Antenna Port | | | | | | | |
|------------------------|-------------------------|-------------------------------------------------|-------------|-------------|-------|-------------|-----------|
| Channel | Channel Frequency (MHz) | Highest Conducted Out-of-band Spurious Emission | | Limit | | Margin (dB) | Pass/Fail |
| | | Frequency (MHz) | Level (dBm) | (nanowatts) | (dBm) | | |
| 36 | 5180 | 25257.92 | -69.19 | 5 | -53 | 16.19 | Pass* |
| 52 | 5260 | 25862.92 | -68.90 | 5 | -53 | 15.90 | Pass |
| 64 | 5320 | 26050.83 | -68.55 | 5 | -53 | 15.55 | Pass* |
| Auxiliary Antenna Port | | | | | | | |
| 36 | 5180 | 25299.17 | -68.32 | 5 | -53 | 15.32 | Pass* |
| 52 | 5260 | 25312.92 | -68.01 | 5 | -53 | 15.01 | Pass |
| 64 | 5320 | 25276.25 | -68.14 | 5 | -53 | 15.14 | Pass* |

*Reference only

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab | |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
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F.9. PASS/FAIL


In reference to the results outlined in F.8, the DUT passes the requirements as stated in the reference standards as follows:

IC RSS-GEN (6) (b): If a conducted measurement is made, no spurious output signals appearing at the antenna terminals shall exceed 2 nanowatts per 4 kHz spurious frequency in the band 30-1000 MHz, or 5 nanowatts above 1 GHz.

No emissions were measured below 1 GHz. The emission above 1 GHz, with the lowest margin was measured at 25862.92 MHz, with a level of -68.90 dBm vs. the limit of -53 dBm (5 nW), resulting in a 15.90 dB margin for the main antenna port and -68.01 dBm @ 25312.92 MHz vs the limit of -53 dBm (5 nW) for the auxiliary antenna port resulting in a 15.01 dB margin.


F.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.



Duane M. Friesen, C.E.T.
EMC Manager
Celltech Labs Inc.

15Nov05
Date

| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
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Appendix G - Radiated Spurious Emissions Measurement

| G.1. REFERENCES | |
|-------------------------------------|----------------------------------|
| Normative Reference Standard | FCC CFR 47 §15.407(b) (1) & (2)* |
| Procedure Reference | ANSI C63.4; FCC 97-114 |

*Compliance to the requirements of FCC CFR 47 §15.407(b) (6) is outlined in Appendix H, as the limits are the same as the restricted bands.

G.2. LIMITS

G.2.1. FCC CFR 47

| | |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC CFR 47 §15.407(b) | <p><i>Undesirable Emissions Limits: the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:</i></p> <p>(1) <i>For transmitters operating in the 5.15 – 5.25 GHz band: all emissions outside of the 5.15 – 5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz*.</i></p> <p>(2) <i>For transmitters operating in the 5.25 – 5.35 GHz band: all emissions outside of the 5.15 – 5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz*...</i></p> <p>(6) <i>Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.</i></p> |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

* Free space field strengths were calculated and used as field strength limits using the following formulae:
 Field Strength (dBuV/m) = 20 * log (sqrt [((30 * Power (watts)) / (distance (m) ^2 * 10⁶))])
 Resulting in a field strength limit of 68.23 dBuV/m when measured with a RBW of 1 MHz.


| FCC CFR 47 §15.209 | Frequency | | Field Strength | | Measurement Distance |
|--------------------|---------------|-----|----------------|---------------|----------------------|
| | | MHz | uV/m | dBuV/m | Meters |
| | .009 – 0.490 | | 2400/F(kHz) | 48.52 – 13.80 | 300 |
| | 0.490 – 1.705 | | 24000/F(kHz) | 33.80 – 22.97 | 30 |
| | 1.705 – 30.0 | | 30 | 29.54 | 30 |
| | 30 – 88 | | 100 | 40.00 | 3 |
| | 88 – 216 | | 150 | 43.52 | 3 |
| | 216 - 960 | | 200 | 46.02 | 3 |
| | Above 960 | | 500 | 53.98 | 3 |

(b) *In the emission table above, the tighter limit applies at the band edges.*


Note: Spurious emissions within the restricted bands are reported in Appendix H.


G.3. ENVIRONMENTAL CONDITIONS

| | |
|----------------------------|--------------|
| Temperature | uncontrolled |
| Humidity | uncontrolled |
| Barometric Pressure | uncontrolled |


| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
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| G.4. EQUIPMENT LIST | | | | | | |
|---------------------|--------------|--------------|--------------------|------------------------------|----------|---------|
| RECEIVING EQUIPMENT | | | | | | |
| ID | ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE |
| 1 | 00072 | EMCO | 2075 | Mini-mast | na | na |
| 2 | 00073 | EMCO | 2080 | Turn Table | na | na |
| 3 | 00071 | EMCO | 2090 | Multi-Device Controller | na | na |
| 4 | 00085 | EMCO | 6502 | Loop Antenna | 12Aug05 | 12Aug06 |
| 5 | 00050 | Chase | CBL-6111A | Bilog Antenna | 08Feb05 | 08Feb06 |
| 6 | 00034 | ETS | 3115 | Double Ridged Guide Horn | 11Aug05 | 11Aug06 |
| 7 | 00161/00166 | Waveline | 899/801-KF | Standard Gain Horn | na | na |
| 8 | 00163 | Waveline | 899 | Standard Gain Horn | na | Na |
| 9 | 00051 | HP | 8566B | Spectrum Analyzer RF Section | 12Apr05 | 12Apr06 |
| 10 | 00049 | HP | 85650A | Quasi-Peak Adapter | 13Apr05 | 13Apr06 |
| 11 | 00047 | HP | 85685A | RF Preselector | 13Apr05 | 13Apr06 |
| 12 | 00015 | Agilent | 4408B | Spectrum Analyzer | 24Jan05 | 24Jan06 |
| 13 | 00115 | Miteq | J54-00102600-35-5A | LNA | 08Jun04 | 08Jun06 |
| 14 | 00093 | Microtronics | HPM50111 | High Pass Filter | 08Jun04 | 08Dec05 |
| 15 | 00119 | INMAT | 18AH-10 | 10dB attenuator | 08Jun04 | 08Dec05 |
| 16 | 00192 | Agilent | 8493C | 6dB attenuator | 01Jul05 | 01Jul06 |
| 17 | 00038 | Agilent | 8493C | 3dB attenuator | 01Jul05 | 01Jul06 |
| 18 | 000048 | GORE | n/a | Microwave Cable (RX) | 28Mar05 | 28Mar06 |
| 19 | 00121 | Andrew | FSJ4-50B | Microwave Cable (RX) | 12Aug05 | 12Aug06 |
| 20 | 00130 | Andrew | FSJ1-50A | Microwave Cable (RX) | 12Aug05 | 12Aug06 |
| 21 | 00088 | HP | 11970A | Harmonic mixer | na | na |
| 22 | 00094 | HP | 11975A | Preamplifier | na | na |

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
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| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

| G.5. MEASUREMENT EQUIPMENT SETUP | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------|-----------------|
| MEASUREMENT EQUIPMENT CONNECTIONS | The measurement equipment was connected as shown in the G.6. A number of antennas were used to cover the applicable frequency range test. The ranges in which each antenna was used are as follows: | | | |
| | Frequency Range | Spectrum Analyzer Asset # | LNA/Filter/Attenuator Asset # | Antenna Asset # |
| | 10kHz - 30 MHz | 00051/00049/00047 | none | 00085 |
| | 30 MHz – 1 GHz | 00051/00049/00047 | none | 00050 |
| | 1 GHz – 2 GHz | 00051/00047 | none | 00034 |
| | 2 GHz – 3 GHz* | 00051 | 00119/00192/00038/00115 | 00034 |
| | 3 GHz – 7 GHz* | 00051 | 00093/00119/00192/00038/00115 | 00034 |
| | 7 GHz – 18 GHz | 00015 | 00093/00119/00192/00038/00115 | 00034 |
| | 18 GHz – 26.5 GHz | 00015 | 00115 | 00161/00166 |
| | 26.5 GHz – 40 GHz | 00051 | none | 00088/00163 |
| * Attenuators used as required | | | | |
| MEASUREMENT EQUIPMENT SETTINGS | The spectrum analyzer was set to the following settings: | | | |
| | Frequency Range | RBW | VBW | Detector |
| | MHz | kHz | kHz | |
| | 0.009 – 0.150 | 0.200 | 10 | Peak* |
| | 0.150 – 30 | 9 | 30 | Peak* |
| | 30 – 1000 | 100 | 300 | Peak* |
| | > 1000 | 1000 | 1000 | Peak* |
| *As a worst-case measurement, the average/QP limit was applied to measurements made with a peak detector, unless otherwise noted. Average measurements were performed with video averaging using a VBW of 30 Hz. | | | | |

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

G.6. SETUP DRAWING

Figure G.6-1 - Setup Drawing (≤ 26.5 GHz)

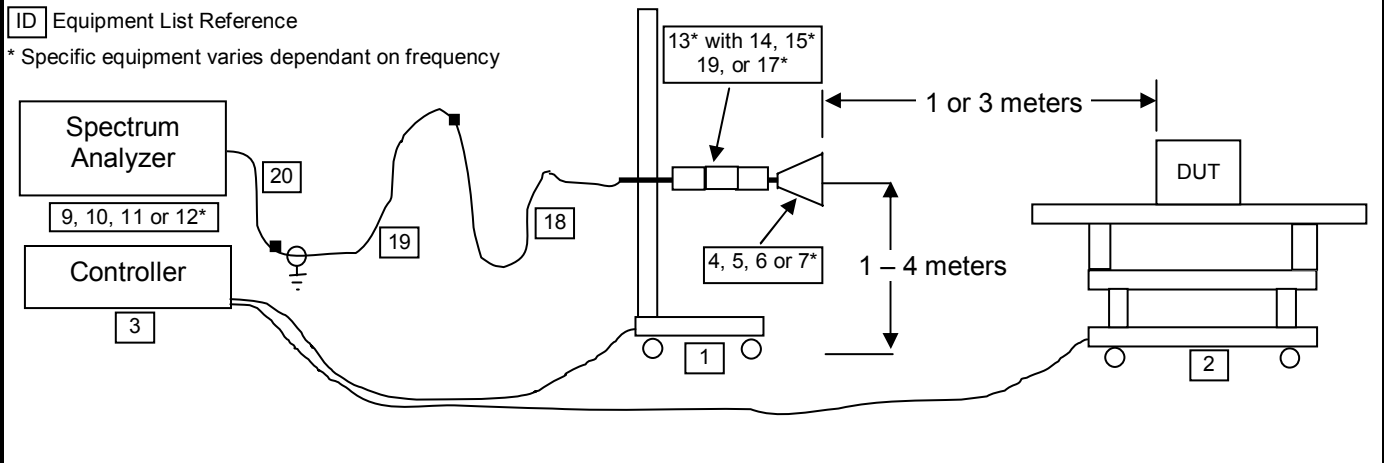
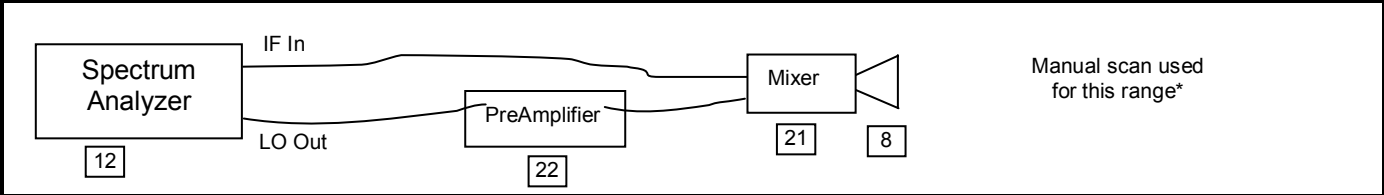



Figure G.6-2 - Setup Drawing (≥ 26.5 GHz)



| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
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| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

G.7. SETUP PHOTOGRAPHS

Photograph G.7-1- 3115 Horn @ 3 m



Photograph G.7-2- Waveline Horn with LNA @ 1m





Photograph G.7-3- DUT Configuration



G.8. DUT OPERATING DESCRIPTION


The worst-case data rate was determined from prescan investigations. Measurements were made at three channels throughout the lower band applicable for Mode a.

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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G.9. TEST RESULTS

G.9.1. Mode a (lower band) - Channel 36 Out-of-Band Spurious Emission Field Strengths @ Specified Distance (not within restricted bands)

| | | | | | |
|-----------------------------------------------------------------------------------|--|------------------------|-----------------------------|-------------------------|------------|
|  | | Project Number: | 632 | Standard: | FCC15.407b |
| | | Company: | Itronix | Test Start Date: | 3-Oct-05 |
| | | Product: | IX325 with CISCO a/b/g WLAN | Test End Date: | 25-Oct-05 |

| Channel | Polarity | Distance m | Rx Antenna | Frequency MHz | SA Level dBuV | Noise Floor | Rx AF | Rx CL | Other Rx | Total Rx CF | Field Strength | Detector | Limit Distance | Limit Distance Correction | Calculated Limit | Margin | Pass/Fail |
|-----------|----------|---------------|--------------|------------------|------------------|-------------|-------|-------|----------|----------------|-------------------|------------|-------------------|---------------------------------|---------------------|--------|-----------|
| | | | | | | | dB/m | dB | dB | dB/m | dBuV/m | (PK/QP/AV) | m | dB | dBuV/m | dB | |
| UNII-CH36 | H | 3 | Bilog SN1607 | 913.95 | 26.40 | * | 23.88 | 4.13 | 0.00 | 28.01 | 54.41 | PK | 3.00 | 0.00 | 66.02 | 11.61 | PASS |
| UNII-CH36 | H | 3 | Bilog SN1607 | 913.95 | 14.20 | * | 23.88 | 4.13 | 0.00 | 28.01 | 42.21 | QP | 3.00 | 0.00 | 46.02 | 3.81 | PASS |
| UNII-CH36 | H | 3 | Horn SN6267 | 1886.91 | 30.30 | * | 27.09 | 5.92 | 0.00 | 33.01 | 63.31 | PK* | 3.00 | 0.00 | 68.23 | 4.92 | PASS |
| UNII-CH36 | H | 1 | Horn SN6267 | 10359.38 | 45.72 | | 38.10 | 7.84 | -16.50 | 29.43 | 75.15 | PK | 3.00 | 9.54 | 97.77 | 22.62 | PASS |
| UNII-CH36 | H | 1 | Horn SN6267 | 10360.00 | 34.46 | | 38.10 | 7.84 | -22.50 | 23.43 | 57.89 | AV | 3.00 | 9.54 | 77.77 | 19.88 | PASS |
| UNII-CH36 | H | 1 | Horn SN6267 | 13423.10 | 39.04 | * | 40.44 | 9.25 | -31.38 | 18.31 | 57.35 | PK* | 3.00 | 9.54 | 77.77 | 20.42 | PASS |
| UNII-CH36 | H | 1 | Waveline_899 | 25899.70 | 39.16 | | 40.50 | 15.00 | -35.53 | 19.97 | 59.13 | PK* | 3.00 | 9.54 | 77.77 | 18.64 | PASS |
| UNII-CH36 | V | 3 | Bilog SN1607 | 122.07 | 24.20 | * | 11.88 | 2.11 | 0.00 | 13.99 | 38.19 | PK* | 3.00 | 0.00 | 43.52 | 5.33 | PASS |
| UNII-CH36 | V | 3 | Bilog SN1607 | 317.95 | 25.10 | * | 14.16 | 2.65 | 0.00 | 16.81 | 41.91 | PK* | 3.00 | 0.00 | 46.02 | 4.11 | PASS |
| UNII-CH36 | V | 3 | Bilog SN1607 | 450.01 | 24.00 | * | 17.50 | 2.86 | 0.00 | 20.36 | 44.36 | PK* | 3.00 | 0.00 | 46.02 | 1.66 | PASS |
| UNII-CH36 | V | 3 | Bilog SN1607 | 815.72 | 24.90 | * | 22.66 | 3.94 | 0.00 | 26.60 | 51.50 | PK | 3.00 | 0.00 | 66.02 | 14.52 | PASS |
| UNII-CH36 | V | 3 | Bilog SN1607 | 815.72 | 13.70 | * | 22.66 | 3.94 | 0.00 | 26.60 | 40.30 | QP | 3.00 | 0.00 | 46.02 | 5.72 | PASS |
| UNII-CH36 | V | 3 | Bilog SN1607 | 844.43 | 25.80 | * | 23.08 | 4.00 | 0.00 | 27.08 | 52.88 | PK | 3.00 | 0.00 | 66.02 | 13.14 | PASS |
| UNII-CH36 | V | 3 | Bilog SN1607 | 844.43 | 13.90 | * | 23.08 | 4.00 | 0.00 | 27.08 | 40.98 | QP | 3.00 | 0.00 | 46.02 | 5.04 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 3462.85 | 45.10 | | 31.07 | 8.60 | -32.11 | 7.55 | 52.65 | PK* | 3.00 | 0.00 | 68.23 | 15.58 | PASS |
| UNII-CH36 | V | 1 | Horn SN6267 | 10357.70 | 42.06 | | 38.10 | 7.84 | -22.50 | 23.43 | 65.49 | PK* | 3.00 | 9.54 | 77.77 | 12.28 | PASS |
| UNII-CH36 | V | 1 | Horn SN6267 | 14517.65 | 39.88 | * | 41.68 | 9.75 | -31.60 | 19.84 | 59.72 | PK* | 3.00 | 9.54 | 77.77 | 18.06 | PASS |
| UNII-CH36 | V | 1 | Waveline_899 | 25899.70 | 39.90 | | 40.50 | 15.00 | -35.53 | 19.97 | 59.87 | PK* | 3.00 | 9.54 | 77.77 | 17.90 | PASS |


For frequency bands above 26.5 GHz, manual scans at a 1-2 cm distance were made with no emissions observed.

Notes:

- *PK denotes QP or Average limits applied to emissions measured with a peak detector
- BOLD** signifies the highest signal measured near a carrier harmonic frequency
- No DUT emissions levels were measured above those reported
- *Field Strength limit derived from using the free space formulae with the EIRP Limit

Formulae:

Total CF = Antenna Factor + Cable Factor + Other Factor (Amplifier Gain, filter loss, etc)
 Field Strength = SA Reading + Total CF
 Limit Distance Correction = 40*log(d1/d2) for F<30 MHz, 20*log(d1/d2) for F> 30 MHz:
 where d1 is the measurement distance, d2 is the published limit distance
 Limit = Specified Limit + Limit Distance Correction
 Margin = Limit - Field Strength
 Field Strength Limit = 20*LOG((SQRT((30*(10^(EIRP /10))/1000)/(d1^2))*1000000))
 where d1 is the measurement distance in meters, EIRP is the EIRP limit in dBm

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

G.9.2. Mode a (Channel 52) - Out-of-Band Spurious Emission Field Strengths @ Specified Distance (not within restricted bands)

| Channel | Polarity | Distance | Rx Antenna | Frequency | SA Level | Noise Floor | Rx AF | Rx CL | Other Rx | Total Rx CF | Field Strength | Detector | Limit Distance | Limit Distance Correction | Calculated Limit | Margin | Pass/Fail |
|-----------|----------|----------|--------------|-----------------|----------|-------------|-------|-------|----------|-------------|----------------|------------|----------------|---------------------------|------------------|--------|-----------|
| | | | | | | | dB/m | dB | dB | dB/m | dBuV/m | (PK/QP/AV) | m | dB | dBuV/m | dB | |
| UNII-CH52 | H | 3 | Bilog SN1607 | 810.31 | 26.00 | * | 22.61 | 3.90 | 0.00 | 26.51 | 52.51 | PK | 3.00 | 0.00 | 66.02 | 13.51 | PASS |
| UNII-CH52 | H | 3 | Bilog SN1607 | 810.31 | 13.70 | * | 22.61 | 3.90 | 0.00 | 26.51 | 40.21 | QP | 3.00 | 0.00 | 46.02 | 5.81 | PASS |
| UNII-CH52 | H | 3 | Bilog SN1607 | 839.10 | 25.30 | * | 22.85 | 3.98 | 0.00 | 26.83 | 52.13 | PK | 3.00 | 0.00 | 66.02 | 13.89 | PASS |
| UNII-CH52 | H | 3 | Bilog SN1607 | 839.10 | 13.90 | * | 22.85 | 3.98 | 0.00 | 26.83 | 40.73 | QP | 3.00 | 0.00 | 46.02 | 5.29 | PASS |
| UNII-CH52 | H | 3 | Bilog SN1607 | 850.51 | 25.40 | * | 23.31 | 4.04 | 0.00 | 27.35 | 52.75 | PK | 3.00 | 0.00 | 66.02 | 13.27 | PASS |
| UNII-CH52 | H | 3 | Bilog SN1607 | 850.51 | 13.90 | * | 23.31 | 4.04 | 0.00 | 27.35 | 41.25 | QP | 3.00 | 0.00 | 46.02 | 4.77 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1889.56 | 33.10 | * | 27.10 | 5.92 | 0.00 | 33.02 | 66.12 | PK* | 3.00 | 0.00 | 68.23 | 2.11 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 3504.05 | 53.70 | * | 31.16 | 8.64 | -32.14 | 7.67 | 61.37 | PK* | 3.00 | 0.00 | 68.23 | 6.86 | PASS |
| UNII-CH52 | H | 1 | Horn SN6267 | 10527.00 | 38.99 | * | 38.06 | 7.91 | -10.49 | 35.49 | 74.48 | PK* | 3.00 | 9.54 | 77.77 | 3.29 | PASS |
| UNII-CH52 | H | 1 | Waveline 899 | 26298.10 | 37.70 | * | 40.50 | 15.34 | -35.53 | 20.31 | 58.01 | PK* | 3.00 | 9.54 | 77.77 | 19.76 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 174.17 | 25.10 | * | 10.07 | 2.29 | 0.00 | 12.36 | 37.46 | PK* | 3.00 | 0.00 | 43.52 | 6.06 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 450.63 | 25.10 | * | 17.50 | 2.87 | 0.00 | 20.37 | 45.47 | PK | 3.00 | 0.00 | 66.02 | 20.55 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 450.63 | 13.90 | * | 17.50 | 2.87 | 0.00 | 20.37 | 34.27 | QP | 3.00 | 0.00 | 46.02 | 11.75 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 678.55 | 25.30 | * | 20.90 | 3.63 | 0.00 | 24.53 | 49.83 | PK | 3.00 | 0.00 | 66.02 | 16.19 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 678.55 | 13.60 | * | 20.90 | 3.63 | 0.00 | 24.53 | 38.13 | QP | 3.00 | 0.00 | 46.02 | 7.89 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 815.57 | 25.60 | * | 22.67 | 3.94 | 0.00 | 26.61 | 52.21 | PK | 3.00 | 0.00 | 66.02 | 13.81 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 815.57 | 13.60 | * | 22.67 | 3.94 | 0.00 | 26.61 | 40.21 | QP | 3.00 | 0.00 | 46.02 | 5.81 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 829.60 | 25.90 | * | 22.30 | 3.99 | 0.00 | 26.29 | 52.19 | PK | 3.00 | 0.00 | 66.02 | 13.83 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 829.60 | 13.90 | * | 22.30 | 3.99 | 0.00 | 26.29 | 40.19 | QP | 3.00 | 0.00 | 46.02 | 5.83 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 911.11 | 26.80 | * | 23.82 | 4.14 | 0.00 | 27.96 | 54.76 | PK | 3.00 | 0.00 | 66.02 | 11.26 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 911.11 | 14.10 | * | 23.82 | 4.14 | 0.00 | 27.96 | 42.06 | QP | 3.00 | 0.00 | 46.02 | 3.96 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 928.73 | 26.20 | * | 24.45 | 4.11 | 0.00 | 28.56 | 54.76 | PK | 3.00 | 0.00 | 66.02 | 11.26 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 928.73 | 13.90 | * | 24.45 | 4.11 | 0.00 | 28.56 | 42.46 | QP | 3.00 | 0.00 | 46.02 | 3.56 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 951.53 | 24.40 | * | 24.92 | 4.21 | 0.00 | 29.13 | 53.53 | PK | 3.00 | 0.00 | 66.02 | 12.49 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 951.53 | 13.50 | * | 24.92 | 4.21 | 0.00 | 29.13 | 42.63 | QP | 3.00 | 0.00 | 46.02 | 3.39 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 1896.71 | 30.05 | * | 27.13 | 5.93 | 0.00 | 33.03 | 63.11 | PK* | 3.00 | 0.00 | 68.23 | 5.12 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 3503.90 | 51.70 | * | 31.16 | 8.64 | -32.14 | 7.67 | 59.37 | PK* | 3.00 | 0.00 | 68.23 | 8.86 | PASS |
| UNII-CH52 | V | 1 | Horn SN6267 | 10518.13 | 37.32 | * | 38.06 | 7.91 | -16.49 | 29.48 | 66.80 | PK* | 3.00 | 9.54 | 77.77 | 10.97 | PASS |
| UNII-CH52 | V | 1 | Horn SN6267 | 14395.40 | 39.81 | * | 41.67 | 9.70 | -31.42 | 19.95 | 59.76 | PK* | 3.00 | 9.54 | 77.77 | 18.02 | PASS |
| UNII-CH52 | V | 1 | Waveline 899 | 26298.10 | 38.74 | * | 40.50 | 15.34 | -35.53 | 20.31 | 59.05 | PK* | 3.00 | 9.54 | 77.77 | 18.72 | PASS |

For frequency bands above 26.5 GHz, manual scans at a 1-2 cm distance were made with no emissions observed.

Notes:

- *PK denotes QP or Average limits applied to emissions measured with a peak detector
- BOLD** signifies the highest signal measured near a carrier harmonic frequency
- No DUT emissions levels were measured above those reported
- *Field Strength limit derived from using the free space formulae with the EIRP Limit

Formulae:

Total CF = Antenna Factor + Cable Factor + Other Factor (Amplifier Gain, filter loss, etc)
 Field Strength = SA Reading + Total CF
 Limit Distance Correction = 40*log(d1/d2) for F<30 MHz, 20*log(d1/d2) for F> 30 MHz:
 where d1 is the measurement distance, d2 is the published limit distance
 Limit = Specified Limit + Limit Distance Correction
 Margin = Limit - Field Strength
 Field Strength Limit = 20*LOG((SQRT((30*(10^(EIRP /10))/1000)/(d1^2))*1000000))
 where d1 is the measurement distance in meters, EIRP is the EIRP limit in dBm

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|----------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab | ITRONIX A GENERAL DYNAMICS COMPANY |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | | | |
|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

G.9.3. Mode a (Channel 64) - Out-of-Band Spurious Emission Field Strengths @ Specified Distance (not within restricted bands)

| | | | | | |
|--|--|------------------------|-----------------------------|-------------------------|------------|
| | | Project Number: | 632 | Standard: | FCC15.407b |
| | | Company: | Itronix | Test Start Date: | 3-Oct-05 |
| | | Product: | IX325 with CISCO a/b/g WLAN | Test End Date: | 25-Oct-05 |

| Channel | Polarity | Distance | Rx Antenna | Frequency | SA Level | Noise Floor | Rx AF | Rx CL | Other Rx | Total Rx CF | Field Strength | Detector | Limit Distance | Limit Distance Correction | Calculated Limit | Margin | Pass/Fail |
|-----------|----------|----------|--------------|-----------|----------|-------------|-------|-------|----------|-------------|----------------|----------|----------------|---------------------------|------------------|--------|-----------|
| | | | | | | | dB/m | dB | dB | dB/m | dBuV/m | | (PK/QP/AV) | m | dB | dBuV/m | |
| UNII-CH64 | H | 3 | Bilog SN1607 | 839.84 | 25.60 | * | 22.89 | 3.97 | 0.00 | 26.86 | 52.46 | PK | 3.00 | 0.00 | 66.02 | 13.56 | PASS |
| UNII-CH64 | H | 3 | Bilog SN1607 | 839.84 | 13.90 | * | 22.89 | 3.97 | 0.00 | 26.86 | 40.76 | QP | 3.00 | 0.00 | 46.02 | 5.26 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1889.77 | 30.25 | * | 27.10 | 5.93 | 0.00 | 33.02 | 63.27 | PK* | 3.00 | 0.00 | 68.23 | 4.95 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 3467.23 | 45.80 | * | 31.08 | 8.58 | -32.11 | 7.55 | 53.35 | PK* | 3.00 | 0.00 | 68.23 | 14.88 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 3546.36 | 51.60 | * | 31.27 | 8.73 | -32.17 | 7.84 | 59.44 | PK* | 3.00 | 0.00 | 68.23 | 8.79 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 449.98 | 25.40 | * | 17.50 | 2.86 | 0.00 | 20.36 | 45.76 | PK | 3.00 | 0.00 | 66.02 | 20.26 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 449.98 | 13.90 | * | 17.50 | 2.86 | 0.00 | 20.36 | 34.26 | QP | 3.00 | 0.00 | 46.02 | 11.76 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 811.09 | 25.80 | * | 22.62 | 3.90 | 0.00 | 26.53 | 52.33 | PK | 3.00 | 0.00 | 66.02 | 13.69 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 811.09 | 13.80 | * | 22.62 | 3.90 | 0.00 | 26.53 | 40.33 | QP | 3.00 | 0.00 | 46.02 | 5.69 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 815.30 | 25.60 | * | 22.68 | 3.94 | 0.00 | 26.62 | 52.22 | PK | 3.00 | 0.00 | 66.02 | 13.80 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 815.30 | 13.90 | * | 22.68 | 3.94 | 0.00 | 26.62 | 40.52 | QP | 3.00 | 0.00 | 46.02 | 5.50 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 833.72 | 25.40 | * | 22.52 | 3.97 | 0.00 | 26.49 | 51.89 | PK | 3.00 | 0.00 | 66.02 | 14.13 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 833.72 | 13.80 | * | 22.52 | 3.97 | 0.00 | 26.49 | 40.29 | QP | 3.00 | 0.00 | 46.02 | 5.73 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 839.93 | 25.60 | * | 22.90 | 3.97 | 0.00 | 26.87 | 52.47 | PK | 3.00 | 0.00 | 66.02 | 13.55 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 839.93 | 13.90 | * | 22.90 | 3.97 | 0.00 | 26.87 | 40.77 | QP | 3.00 | 0.00 | 46.02 | 5.25 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 928.74 | 26.80 | * | 24.45 | 4.11 | 0.00 | 28.56 | 55.36 | PK | 3.00 | 0.00 | 66.02 | 10.66 | PASS |
| UNII-CH64 | V | 3 | Bilog SN1607 | 928.74 | 13.80 | * | 24.45 | 4.11 | 0.00 | 28.56 | 42.36 | QP | 3.00 | 0.00 | 46.02 | 3.66 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 2393.51 | 34.75 | * | 28.18 | 6.79 | -23.16 | 11.82 | 46.57 | PK* | 3.00 | 0.00 | 68.23 | 21.66 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 3431.44 | 45.50 | * | 31.00 | 8.51 | -32.14 | 7.37 | 52.87 | PK* | 3.00 | 0.00 | 68.23 | 15.36 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 5698.00 | 40.20 | * | 34.23 | 11.93 | -32.22 | 13.94 | 54.14 | PK* | 3.00 | 0.00 | 68.23 | 14.09 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 6840.00 | 34.10 | * | 34.94 | 13.32 | -32.18 | 16.08 | 50.18 | PK* | 3.00 | 0.00 | 68.23 | 18.05 | PASS |


For frequency bands above 26.5 GHz, manual scans at a 1-2 cm distance were made with no emissions observed.

Notes:

- *PK denotes QP or Average limits applied to emissions measured with a peak detector
- BOLD** signifies the highest signal measured near a carrier harmonic frequency
- No DUT emissions levels were measured above those reported
- *Field Strength limit derived from using the free space formulae with the EIRP Limit

Formulae:

Total CF = Antenna Factor + Cable Factor + Other Factor (Amplifier Gain, filter loss, etc)
 Field Strength = SA Reading + Total CF
 Limit Distance Correction = 40*log(d1/d2) for F<30 MHz, 20*log(d1/d2) for F> 30 MHz:
 where d1 is the measurement distance, d2 is the published limit distance
 Limit = Specified Limit + Limit Distance Correction
 Margin = Limit - Field Strength
 Field Strength Limit = 20*LOG((SQRT((30*(10^(EIRP /10))/1000)/(d1^2))*1000000))
 where d1 is the measurement distance in meters, EIRP is the EIRP limit in dBm

| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

G.10. PASS/FAIL

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

FCC 15.407 (b) (1, 2): All emissions outside the 5.15 - 5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

The emission above 1 GHz , outside a restricted band, with the lowest margin to the theoretical limit was measured at 3 meters, in the horizontal polarization with Channel 52 transmitting. The frequency was 1889.56 MHz, with a corrected peak field strength of 66.12 dBuV/m vs. the calculated average limit of 68.23 dBuV/m, resulting in a 2.11 dB margin.

FCC 15.407 (b) (6): Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.

The emission below 1 GHz , outside a restricted band, with the lowest margin to the limit was measured at 3 meters, in the vertical polarization with Channel 36 transmitting. The frequency was 450.01 MHz, with a corrected peak field strength of 44.36 dBuV/m vs. the average limit of 46.02 dBuV/m, resulting in a 1.66 dB margin.

G.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.




Russell Pipe
Senior Compliance Technologist
Celltech Labs Inc.

25Oct05

Date


| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

Appendix H - Restricted Band Emissions Measurement

| H.1. REFERENCES | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Normative Reference Standard | FCC CFR 47 §15.407 (b) (6) (FCC CFR 47 §15.209 (a)), FCC CFR 47 §15.407 (b) (7) (FCC CFR 47 §15.205 (a) (b)) |
| Procedure Reference | FCC 97-114 |


| H.2. LIMITS | | | | |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|----------------------|
| FCC CFR 47 §15.407 | <i>(b) (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209</i> | | | |
| FCC CFR 47 §15.209 | <i>(a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:</i> | | | |
| | Frequency | Field Strength | | Measurement Distance |
| | MHz | uV/m | dBuV/m | Meters |
| | .009 – 0.490 | 2400/F(kHz) | 48.52 – 13.80 | 300 |
| | 0.490 – 1.705 | 24000/F(kHz) | 33.80 – 22.97 | 30 |
| | 1.705 – 30.0 | 30 | 29.54 | 30 |
| | 30 – 88 | 100 | 40.00 | 3 |
| | 88 – 216 | 150 | 43.52 | 3 |
| | 216 - 960 | 200 | 46.02 | 3 |
| | Above 960 | 500 | 53.98 | 3 |
| | <i>(b) In the emission table above, the tighter limit applies at the band edges.</i> | | | |
| FCC CFR 47 §15.407 | <i>(b) (7) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.</i> | | | |
| FCC CFR 47 §15.205 | <i>(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:</i> | | | |
| | MHz | MHz | MHz | GHz |
| | 0.090–0.110 | 16.42–16.423 | 399.9–410 | 4.5–5.15 |
| | ¹ 0.495–0.505 | 16.69475–16.69525 | 608–614 | 5.35–5.46 |
| | 2.1735–2.1905 | 16.80425–16.80475 | 960–1240 | 7.25–7.75 |
| | 4.125–4.128 | 25.5–25.67 | 1300–1427 | 8.025–8.5 |
| | 4.17725–4.17775 | 37.5–38.25 | 1435–1626.5 | 9.0–9.2 |
| | 4.20725–4.20775 | 73–74.6 | 1645.5–1646.5 | 9.3–9.5 |
| | 6.215–6.218 | 74.8–75.2 | 1660–1710 | 10.6–12.7 |
| | 6.26775–6.26825 | 108–121.94 | 1718.8–1722.2 | 13.25–13.4 |
| | 6.31175–6.31225 | 123–138 | 2200–2300 | 14.47–14.5 |
| | 8.291–8.294 | 149.9–150.05 | 2310–2390 | 15.35–16.2 |
| | 8.362–8.366 | 156.52475–156.52525 | 2483.5–2500 | 17.7–21.4 |
| | 8.37625–8.38675 | 156.7–156.9 | 2655–2900 | 22.01–23.12 |
| | 8.41425–8.41475 | 162.0125–167.17 | 3260–3267 | 23.6–24.0 |
| | 12.29–12.293 | 167.72–173.2 | 3332–3339 | 31.2–31.8 |
| | 12.51975–12.52025 | 240–285 | 3345.8–3358 | 36.43–36.5 |
| | 12.57675–12.57725 | 322–335.4 | 3600–4400 | (²) |
| | 13.36–13.41 | | | |
| | ¹ Until February 1, 1999, this restricted band shall be 0.490–0.510 MHz. | | | |
| | ² Above 38.6 | | | |
| | <i>(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions of 15.35 apply to these measurements.</i> | | | |


| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |


| H.3. ENVIRONMENTAL CONDITIONS | |
|-------------------------------|--------------|
| Temperature | uncontrolled |
| Humidity | uncontrolled |
| Barometric Pressure | uncontrolled |

| H.4. EQUIPMENT LIST | | | | | | |
|---------------------|--------------|--------------|--------------------|------------------------------|----------|---------|
| RECEIVING EQUIPMENT | | | | | | |
| ID | ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE |
| 1 | 00072 | EMCO | 2075 | Mini-mast | na | na |
| 2 | 00073 | EMCO | 2080 | Turn Table | na | na |
| 3 | 00071 | EMCO | 2090 | Multi-Device Controller | na | na |
| 4 | 00085 | EMCO | 6502 | Loop Antenna | 12Aug05 | 12Aug06 |
| 5 | 00050 | Chase | CBL-6111A | Bilog Antenna | 08Feb05 | 08Feb06 |
| 6 | 00034 | ETS | 3115 | Double Ridged Guide Horn | 11Aug05 | 11Aug06 |
| 7 | 00161/00166 | Waveline | 899/801-KF | Standard Gain Horn | na | na |
| 8 | 00163 | Waveline | 899 | Standard Gain Horn | na | Na |
| 9 | 00051 | HP | 8566B | Spectrum Analyzer RF Section | 12Apr05 | 12Apr06 |
| 10 | 00049 | HP | 85650A | Quasi-Peak Adapter | 13Apr05 | 13Apr06 |
| 11 | 00047 | HP | 85685A | RF Preselector | 13Apr05 | 13Apr06 |
| 12 | 00015 | Agilent | 4408B | Spectrum Analyzer | 24Jan05 | 24Jan06 |
| 13 | 00115 | Miteq | J54-00102600-35-5A | LNA | 08Jun04 | 08Jun06 |
| 14 | 00093 | Microtronics | HPM50111 | High Pass Filter | 08Jun04 | 08Dec05 |
| 15 | 00119 | INMAT | 18AH-10 | 10dB attenuator | 08Jun04 | 08Dec05 |
| 16 | 00192 | Agilent | 8493C | 6dB attenuator | 01Jul05 | 01Jul06 |
| 17 | 00038 | Agilent | 8493C | 3dB attenuator | 01Jul05 | 01Jul06 |
| 18 | 00048 | GORE | n/a | Microwave Cable (RX) | 28Mar05 | 28Mar06 |
| 19 | 00121 | Andrew | FSJ4-50B | Microwave Cable (RX) | 12Aug05 | 12Aug06 |
| 20 | 00130 | Andrew | FSJ1-50A | Microwave Cable (RX) | 12Aug05 | 12Aug06 |
| 21 | 00088 | HP | 11970A | Harmonic mixer | na | na |
| 22 | 00094 | HP | 11975A | Preamplifier | na | na |

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

| H.5. MEASUREMENT EQUIPMENT SETUP | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------|-----------------|
| MEASUREMENT EQUIPMENT CONNECTIONS | The measurement equipment was connected as shown in the H.6. A number of antennas were used to cover the applicable frequency range test. The ranges in which each antenna was used are as follows: | | | |
| | Frequency Range | Spectrum Analyzer Asset # | LNA/Filter/Attenuator Asset # | Antenna Asset # |
| | 10kHz - 30 MHz | 00051/00049/00047 | none | 00085 |
| | 30 MHz – 1 GHz | 00051/00049/00047 | none | 00050 |
| | 1 GHz – 2 GHz | 00051/00047 | none | 00034 |
| | 2 GHz – 3 GHz | 00051 | 00119/00192/00038/00115 | 00034 |
| | 3 GHz – 7 GHz* | 00051 | 00093/00119/00192/00038/00115 | 00034 |
| | 7 GHz – 18 GHz | 00015 | 00093/00119/00192/00038/00115 | 00161/00166 |
| | 18 GHz – 26.5 GHz | 00015 | 00115 | 00161/00166 |
| | 26.5 GHz – 40 GHz | 00051 | none | 00088/00163 |
| * Attenuators used as required | | | | |
| MEASUREMENT EQUIPMENT SETTINGS | The spectrum analyzer was set to the following settings: | | | |
| | Frequency Range | RBW | VBW | Detector |
| | MHz | kHz | kHz | |
| | 0.009 – 0.150 | 0.200 | 10 | Peak* |
| | 0.150 – 30 | 9 | 30 | Peak* |
| | 30 – 1000 | 100 | 300 | Peak* |
| | > 1000 | 1000* | 1000 | Peak* |
| *As a worst-case measurement, the average/QP limit was applied to measurements made with a peak detector, unless otherwise noted. Average measurements were performed with video averaging using a VBW of 30 Hz. | | | | |

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

H.6. SETUP DRAWING

Figure H.6-1 - Setup Drawing (≤ 26.5 GHz)

ID Equipment List Reference

* Specific equipment varies dependant on frequency

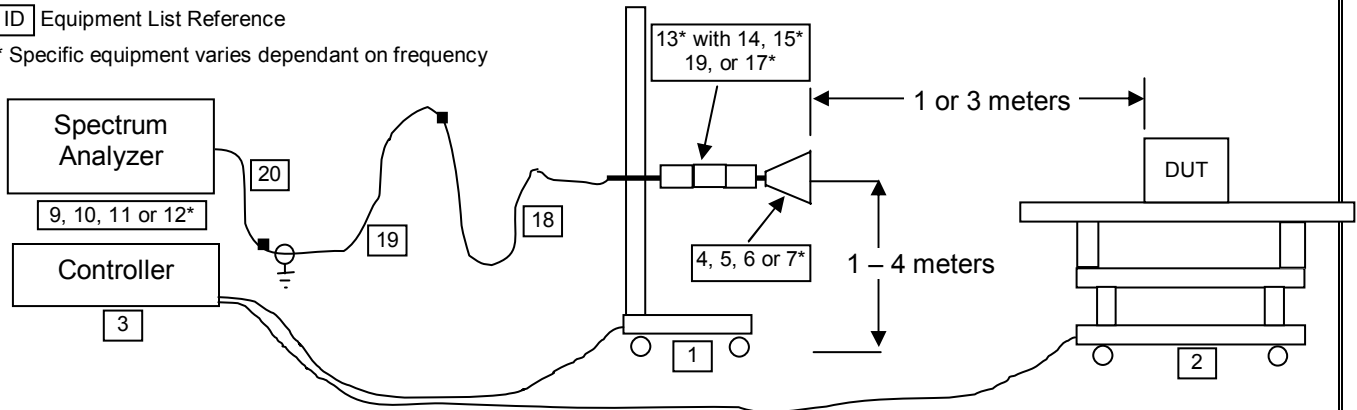
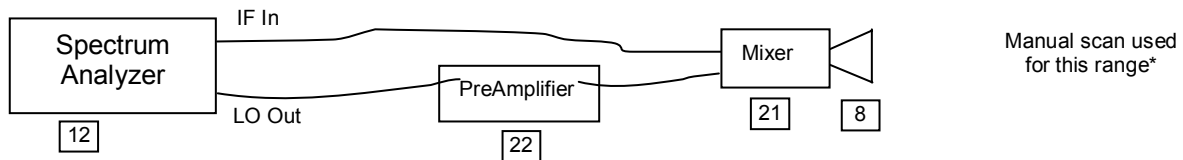



Figure H.6-2 - Setup Drawing (≥ 26.5 GHz)




| | | | |
|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

H.7. SETUP PHOTOGRAPHS

| | |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Photograph H-1 - Loop Antenna (10kHz - 30 MHz) @ 3m | Photograph H-2 - Bilog Antenna (30 MHz - 1 GHz) @ 3m |
|  |  |
| Photograph H-3 - 3115 Horn @ 3 m | Photograph H-4 - 3115 Horn with LNA/Filter @ 1m |
|  |  |
| Photograph H-5 - Waveline Horn with LNA @ 1m | Photograph H-6 - DUT Configuration |
|  |  |

H.8. DUT OPERATING DESCRIPTION

The worst-case data rate was determined from prescan investigations. Measurements were made at three channels throughout the lower band applicable for Mode a.

| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

H.9. TEST RESULTS

H.9.1. Mode a (lower band) - Fundamental Field Strengths @ Specified Distance (1 MHz RBW)




Project Number: 632
Company: Itronix
Product: IX325 with CISCO a/b/g WLAN

Standard: FCC15.407a
Test Start Date: 3-Oct-05
Test End Date: 18-Nov-05

Short edge Up 17.0 Mode a1 6 mbps Carrier Field Strengths

| Channel | Polarity | Measurement Distance | Antenna | Frequency | SA Level | Noise Floor | AF | CL | Other | Total CF | Field Strength | Detector | RBW |
|-----------|----------|----------------------|-------------|-----------|----------|-------------|-------|-------|-------|----------|----------------|----------|------|
| | | | | | | | dB/m | dB | dB | dB/m | dBuV/m | | kHz |
| UNII-CH36 | H | 3 | Horn SN6267 | 5180.00 | 63.85 | | 33.70 | 11.32 | 0.00 | 45.03 | 108.88 | PK | 1000 |
| UNII-CH36 | H | 3 | Horn SN6267 | 5180.00 | 53.95 | | 33.70 | 11.32 | 0.00 | 45.03 | 98.98 | AV | 1000 |
| UNII-CH36 | V | 3 | Horn SN6267 | 5180.00 | 59.50 | | 33.70 | 11.32 | 0.00 | 45.03 | 104.53 | PK | 1000 |
| UNII-CH36 | V | 3 | Horn SN6267 | 5180.00 | 48.95 | | 33.70 | 11.32 | 0.00 | 45.03 | 93.98 | AV | 1000 |
| UNII-CH52 | H | 3 | Horn SN6267 | 5260.00 | 63.75 | | 33.82 | 11.31 | 0.00 | 45.13 | 108.88 | PK | 1000 |
| UNII-CH52 | H | 3 | Horn SN6267 | 5260.00 | 53.25 | | 33.82 | 11.31 | 0.00 | 45.13 | 98.38 | AV | 1000 |
| UNII-CH52 | V | 3 | Horn SN6267 | 5260.00 | 59.60 | | 33.82 | 11.31 | 0.00 | 45.13 | 104.73 | PK | 1000 |
| UNII-CH52 | V | 3 | Horn SN6267 | 5260.00 | 48.80 | | 33.82 | 11.31 | 0.00 | 45.13 | 93.93 | AV | 1000 |
| UNII-CH64 | H | 3 | Horn SN6267 | 5320.00 | 65.30 | | 33.91 | 11.89 | 0.00 | 45.80 | 111.10 | PK | 1000 |
| UNII-CH64 | H | 3 | Horn SN6267 | 5320.00 | 54.90 | | 33.91 | 11.89 | 0.00 | 45.80 | 100.70 | AV | 1000 |
| UNII-CH64 | V | 3 | Horn SN6267 | 5320.00 | 60.35 | | 33.91 | 11.89 | 0.00 | 45.80 | 106.15 | PK | 1000 |
| UNII-CH64 | V | 3 | Horn SN6267 | 5320.00 | 49.10 | | 33.91 | 11.89 | 0.00 | 45.80 | 94.90 | AV | 1000 |

Formulae:
 Total CF = AF + CL + Other
 Field Strength = SA Level + Total CF

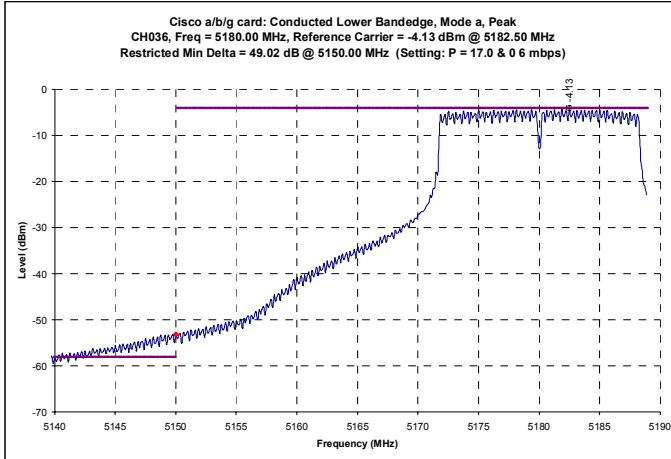
| | | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|---------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  | |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | | |
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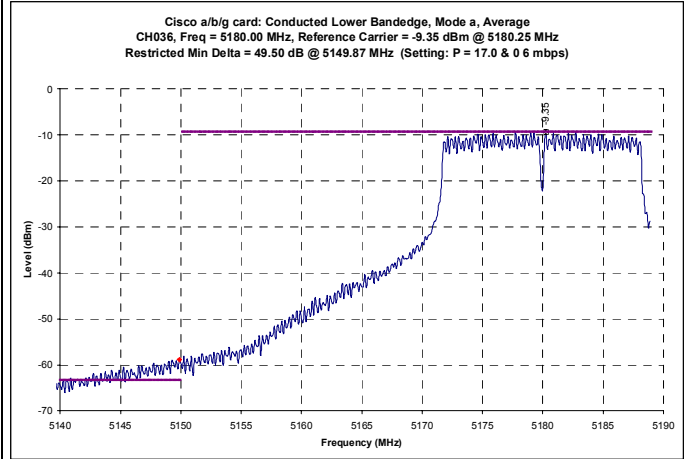
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| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

H.9.2. Mode a (lower band) - Lower Band-edge Emission Field Strengths @ Specified Distance

Channel 36 Mode a - Conducted Peak Band-edge Plots



Channel 36 Mode a - Conducted Average Band-edge Plots



Channel 36 Mode a - Calculated Band-edge (Restricted) Field Strengths

BU Card Short edge Up 17.0&0 Mode a 1 6 mbps

| Channel | Polarity | Distance m | Frequency MHz | Carrier Radiated Field Strength dBuV/m | Delta Marker dB | Calculated Bandedge Field Strength dBuV/m | Duty Cycle Correction dB | Corrected Bandedge Field Strength dBuV/m | Specified Limit dBuV/m | Specified Limit Distance m | Limit Distance Correction dB | Calculated Limit dBuV/m | Margin dB | Pass/Fail |
|-----------|----------|---------------|------------------|-------------------------------------------|--------------------|----------------------------------------------|-----------------------------|---------------------------------------------|---------------------------|-------------------------------|---------------------------------|----------------------------|--------------|-----------|
| | | | | | | | | | | | | | | |
| UNII-CH36 | H | 3 | 5150.00 | 108.88 | 49.02 | 59.86 | 0.00 | 59.86 | 73.98 | 3.00 | 0.00 | 73.98 | 14.12 | PASS |
| UNII-CH36 | H | 3 | 5149.87 | 98.98 | 49.50 | 49.48 | 0.00 | 49.48 | 53.98 | 3.00 | 0.00 | 53.98 | 4.50 | PASS |
| UNII-CH36 | V | 3 | 5150.00 | 104.53 | 49.02 | 55.51 | 0.00 | 55.51 | 73.98 | 3.00 | 0.00 | 73.98 | 18.47 | PASS |
| UNII-CH36 | V | 3 | 5149.87 | 93.98 | 49.50 | 44.48 | 0.00 | 44.48 | 53.98 | 3.00 | 0.00 | 53.98 | 9.50 | PASS |

Formulae:

Calculated Bandedge Field Strength (dBuV/m) = Carrier Radiated Field Strength (dBuV/m) + Delta Marker (dB)

Duty Cycle Correction (dB) = 20 * log (time on / total time)

Corrected Bandedge Field Strength (dBuV/m) = Calculated Bandedge Field Strength (dBuV/m) + Duty Cycle Correction (dB)

Limit Distance Correction = 20 * log (measurement distance / limit distance)

Calculated Limit (dBuV/m) = Specified Limit (dBuV/m) + Limit Distance Correction (dB)

Margin (dB) = Corrected Limit (dBuV/m) – Corrected Bandedge Field Strength (dBuV/m)

Note: Measurements and calculation reference the Marker-Delta Method described in FCC Public Notice DA 00-705

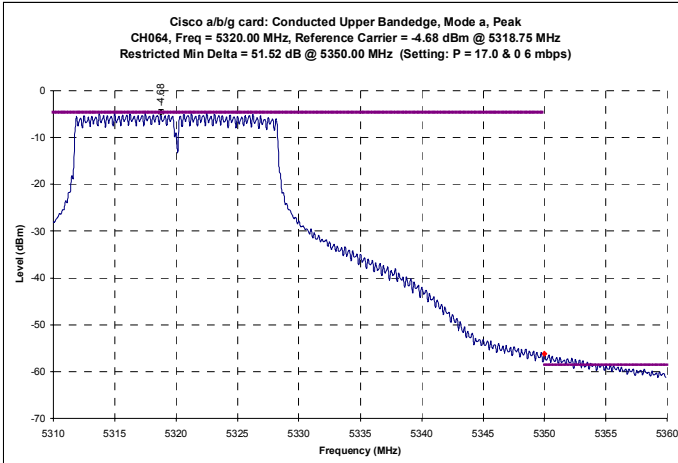
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|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab | |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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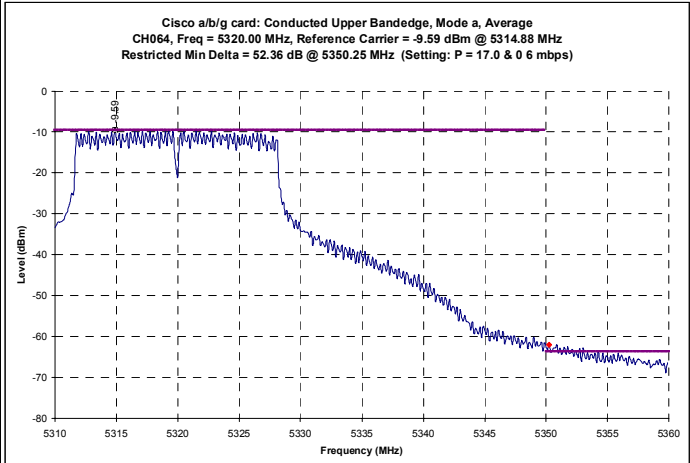
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|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

H.9.3. Mode a (lower band, 6 mbps) - Upper Band-edge Emission Field Strengths @ Specified Distance

Channel 64 Mode a - Conducted Peak Band-edge Plots



Channel 64 Mode a - Conducted Average Band-edge Plots



Channel 64 Mode a - Calculated Band-edge (Restricted) Field Strengths

BU Card Short edge Up 17.0&0 Mode a 1 6 mbps

| Channel | Polarity | Distance m | Frequency MHz | Carrier Radiated Field Strength dBuV/m | Delta Marker dB | Calculated Bandedge Field Strength dBuV/m | Duty Cycle Correction dB | Corrected Bandedge Field Strength dBuV/m | Specified Limit dBuV/m | Specified Limit Distance m | Limit Distance Correction dB | Calculated Limit dBuV/m | Margin dB | Pass/Fail |
|-----------|----------|---------------|------------------|-------------------------------------------------|-----------------------|-------------------------------------------------------|--------------------------------|------------------------------------------------------|------------------------------|-------------------------------------|---------------------------------------|-------------------------------|--------------|-----------|
| | | | | | | | | | | | | | | |
| UNII-CH64 | H | 3 | 5350.00 | 111.10 | 51.52 | 59.58 | 0.00 | 59.58 | 73.98 | 3.00 | 0.00 | 73.98 | 14.39 | PASS |
| UNII-CH64 | H | 3 | 5350.25 | 100.70 | 52.36 | 48.34 | 0.00 | 48.34 | 53.98 | 3.00 | 0.00 | 53.98 | 5.63 | PASS |
| UNII-CH64 | V | 3 | 5350.00 | 106.15 | 51.52 | 54.63 | 0.00 | 54.63 | 73.98 | 3.00 | 0.00 | 73.98 | 19.34 | PASS |
| UNII-CH64 | V | 3 | 5350.25 | 94.90 | 52.36 | 42.54 | 0.00 | 42.54 | 53.98 | 3.00 | 0.00 | 53.98 | 11.43 | PASS |

Formulae:

Calculated Bandedge Field Strength (dBuV/m) = Carrier Radiated Field Strength (dBuV/m) + Delta Marker (dB)

Duty Cycle Correction (dB) = 20 * log (time on / total time)

Corrected Bandedge Field Strength (dBuV/m) = Calculated Bandedge Field Strength (dBuV/m) + Duty Cycle Correction (dB)


Limit Distance Correction = 20 * log (measurement distance / limit distance)

Calculated Limit (dBuV/m) = Specified Limit (dBuV/m) + Limit Distance Correction (dB)

Margin (dB) = Corrected Limit (dBuV/m) - Corrected Bandedge Field Strength (dBuV/m)

Note: Measurements and calculation reference the Marker-Delta Method described in FCC Public Notice DA 00-705

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab | |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

H.9.4. Mode a (lower band) - Channel 36 Out-of-Band Spurious Emission Field Strengths @ Specified Distance (within restricted bands)

| Celltech | | Project Number: | | | 632 | | | Standard: | | | FCC15.407b | | | | | | |
|-----------|----------|-----------------|--------------|-----------------|-----------------------------|-------------|-------|------------------|----------|-------------|----------------|------------|----------------|---------------------------|------------------|--------|-----------|
| Celltech | | Company: | | | Itronix | | | Test Start Date: | | | 3-Oct-05 | | | | | | |
| Celltech | | Product: | | | IX325 with CISCO a/b/g WLAN | | | Test End Date: | | | 25-Oct-05 | | | | | | |
| Channel | Polarity | Distance | Rx Antenna | Frequency | SA Level | Noise Floor | Rx AF | Rx CL | Other Rx | Total Rx CF | Field Strength | Detector | Limit Distance | Limit Distance Correction | Calculated Limit | Margin | Pass/Fail |
| | | | | | | | dB/m | dB | dB | dB/m | dBuV/m | (PK/QP/AV) | m | dB | dBuV/m | dB | |
| UNII-CH36 | H | 3 | Bilog SN1607 | 405.11 | 25.30 | * | 16.90 | 2.80 | 0.00 | 19.71 | 45.01 | PK | 3.00 | 0.00 | 66.02 | 21.01 | PASS |
| UNII-CH36 | H | 3 | Bilog SN1607 | 405.11 | 13.80 | * | 16.90 | 2.80 | 0.00 | 19.71 | 33.51 | QP | 3.00 | 0.00 | 46.02 | 12.51 | PASS |
| UNII-CH36 | H | 3 | Horn SN6267 | 1060.50 | 22.35 | * | 24.57 | 4.42 | 0.00 | 28.98 | 51.33 | AV | 3.00 | 0.00 | 53.98 | 2.65 | PASS |
| UNII-CH36 | H | 3 | Horn SN6267 | 1189.29 | 28.60 | * | 24.83 | 4.66 | 0.00 | 29.50 | 58.10 | PK | 3.00 | 0.00 | 73.98 | 15.88 | PASS |
| UNII-CH36 | H | 3 | Horn SN6267 | 1184.00 | 16.00 | * | 24.82 | 4.66 | 0.00 | 29.48 | 45.48 | AV | 3.00 | 0.00 | 53.98 | 8.50 | PASS |
| UNII-CH36 | H | 3 | Horn SN6267 | 1393.97 | 34.35 | * | 25.26 | 5.04 | 0.00 | 30.31 | 64.66 | PK | 3.00 | 0.00 | 73.98 | 9.32 | PASS |
| UNII-CH36 | H | 3 | Horn SN6267 | 1393.29 | 16.60 | * | 25.26 | 5.04 | 0.00 | 30.30 | 46.90 | AV | 3.00 | 0.00 | 53.98 | 7.08 | PASS |
| UNII-CH36 | H | 3 | Horn SN6267 | 1528.17 | 32.90 | * | 25.60 | 5.29 | 0.00 | 30.89 | 63.79 | PK | 3.00 | 0.00 | 73.98 | 10.19 | PASS |
| UNII-CH36 | H | 3 | Horn SN6267 | 1525.24 | 16.65 | * | 25.59 | 5.28 | 0.00 | 30.87 | 47.52 | AV | 3.00 | 0.00 | 53.98 | 6.46 | PASS |
| UNII-CH36 | H | 3 | Horn SN6267 | 1700.91 | 32.50 | * | 26.32 | 5.63 | 0.00 | 31.95 | 64.45 | PK | 3.00 | 0.00 | 73.98 | 9.53 | PASS |
| UNII-CH36 | H | 3 | Horn SN6267 | 1708.40 | 16.30 | * | 26.35 | 5.64 | 0.00 | 31.98 | 48.28 | AV | 3.00 | 0.00 | 53.98 | 5.70 | PASS |
| UNII-CH36 | H | 1 | Horn SN6267 | 2364.97 | 34.35 | * | 28.13 | 6.72 | -23.16 | 11.69 | 46.04 | PK* | 3.00 | 9.54 | 63.52 | 17.48 | PASS |
| UNII-CH36 | H | 1 | Horn SN6267 | 2489.89 | 36.10 | * | 28.33 | 6.94 | -23.15 | 12.13 | 48.23 | PK* | 3.00 | 9.54 | 63.52 | 15.29 | PASS |
| UNII-CH36 | H | 3 | Horn SN6267 | 5395.58 | 33.50 | * | 34.03 | 11.97 | -32.17 | 13.83 | 47.33 | PK* | 3.00 | 0.00 | 53.98 | 6.65 | PASS |
| UNII-CH36 | H | 1 | Horn SN6267 | 8354.55 | 38.34 | * | 37.37 | 8.91 | -32.06 | 12.22 | 50.56 | PK* | 3.00 | 9.54 | 63.52 | 12.96 | PASS |
| UNII-CH36 | H | 1 | Horn SN6267 | 15420.50 | 39.16 | * | 38.11 | 10.17 | -32.36 | 15.91 | 55.07 | PK* | 3.00 | 9.54 | 63.52 | 8.45 | PASS |
| UNII-CH36 | H | 1 | Horn SN6267 | 15541.05 | 39.95 | * | 37.74 | 10.22 | -11.02 | 36.94 | 76.89 | PK | 3.00 | 9.54 | 83.52 | 6.63 | PASS |
| UNII-CH36 | H | 1 | Horn SN6267 | 15539.50 | 24.90 | * | 37.74 | 10.22 | -11.02 | 36.94 | 61.84 | AV | 3.00 | 9.54 | 63.52 | 1.68 | PASS |
| UNII-CH36 | H | 1 | Horn SN6267 | 17795.30 | 38.52 | * | 45.87 | 11.09 | -33.38 | 23.57 | 62.09 | PK | 3.00 | 9.54 | 83.52 | 21.43 | PASS |
| UNII-CH36 | H | 1 | Horn SN6267 | 17790.65 | 28.03 | * | 45.83 | 11.09 | -33.38 | 23.53 | 51.56 | AV | 3.00 | 9.54 | 63.52 | 11.96 | PASS |
| UNII-CH36 | H | 1 | Waveline_899 | 20720.00 | 38.67 | * | 40.30 | 12.16 | -35.59 | 16.87 | 55.54 | PK* | 3.00 | 9.54 | 63.52 | 7.98 | PASS |
| UNII-CH36 | H | 1 | Waveline_899 | 23612.90 | 39.63 | * | 40.40 | 13.22 | -35.56 | 18.07 | 57.70 | PK* | 3.00 | 9.54 | 63.52 | 5.83 | PASS |
| UNII-CH36 | V | 3 | Bilog SN1607 | 135.74 | 23.70 | * | 12.31 | 2.17 | 0.00 | 14.48 | 38.18 | PK* | 3.00 | 0.00 | 43.52 | 5.34 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 1058.70 | 30.30 | * | 24.56 | 4.41 | 0.00 | 28.97 | 59.27 | PK | 3.00 | 0.00 | 73.98 | 14.71 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 1054.60 | 16.00 | * | 24.55 | 4.41 | 0.00 | 28.96 | 44.96 | AV | 3.00 | 0.00 | 53.98 | 9.02 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 1124.46 | 35.50 | * | 24.70 | 4.56 | 0.00 | 29.25 | 64.75 | PK | 3.00 | 0.00 | 73.98 | 9.22 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 1123.69 | 16.05 | * | 24.70 | 4.56 | 0.00 | 29.25 | 45.30 | AV | 3.00 | 0.00 | 53.98 | 8.68 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 1159.74 | 29.55 | * | 24.77 | 4.63 | 0.00 | 29.41 | 58.96 | PK | 3.00 | 0.00 | 73.98 | 15.02 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 1150.35 | 16.05 | * | 24.75 | 4.59 | 0.00 | 29.34 | 45.39 | AV | 3.00 | 0.00 | 53.98 | 8.59 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 1520.51 | 30.60 | * | 25.57 | 5.27 | 0.00 | 30.83 | 61.43 | PK | 3.00 | 0.00 | 73.98 | 12.55 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 1518.09 | 16.20 | * | 25.56 | 5.26 | 0.00 | 30.82 | 47.02 | AV | 3.00 | 0.00 | 53.98 | 6.96 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 1689.27 | 30.15 | * | 26.27 | 5.59 | 0.00 | 31.86 | 62.01 | PK | 3.00 | 0.00 | 73.98 | 11.97 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 1690.98 | 16.30 | * | 26.27 | 5.60 | 0.00 | 31.87 | 48.17 | AV | 3.00 | 0.00 | 53.98 | 5.81 | PASS |
| UNII-CH36 | V | 1 | Horn SN6267 | 2275.65 | 39.10 | * | 27.99 | 6.59 | -23.16 | 11.42 | 50.52 | PK* | 3.00 | 9.54 | 63.52 | 13.00 | PASS |
| UNII-CH36 | V | 1 | Horn SN6267 | 2327.22 | 35.95 | * | 28.07 | 6.66 | -23.17 | 11.56 | 47.51 | PK* | 3.00 | 9.54 | 63.52 | 16.01 | PASS |
| UNII-CH36 | V | 1 | Horn SN6267 | 2807.18 | 34.50 | * | 29.40 | 7.50 | -23.12 | 13.78 | 48.28 | PK* | 3.00 | 9.54 | 63.52 | 15.24 | PASS |
| UNII-CH36 | V | 1 | Horn SN6267 | 2813.04 | 34.35 | * | 29.42 | 7.51 | -23.13 | 13.80 | 48.15 | PK* | 3.00 | 9.54 | 63.52 | 15.37 | PASS |
| UNII-CH36 | V | 3 | Horn SN6267 | 5393.08 | 35.80 | * | 34.02 | 11.93 | -32.17 | 13.79 | 49.59 | PK* | 3.00 | 0.00 | 53.98 | 4.39 | PASS |
| UNII-CH36 | V | 1 | Horn SN6267 | 9021.55 | 39.13 | * | 37.96 | 7.22 | -32.06 | 13.12 | 52.25 | PK* | 3.00 | 9.54 | 63.52 | 11.27 | PASS |
| UNII-CH36 | V | 1 | Horn SN6267 | 11603.85 | 38.35 | * | 38.69 | 8.41 | -31.82 | 15.28 | 53.63 | PK* | 3.00 | 9.54 | 63.52 | 9.89 | PASS |
| UNII-CH36 | V | 1 | Horn SN6267 | 15372.55 | 38.60 | * | 38.31 | 10.15 | -32.34 | 16.12 | 54.72 | PK* | 3.00 | 9.54 | 63.52 | 8.81 | PASS |
| UNII-CH36 | V | 1 | Horn SN6267 | 17915.45 | 38.39 | * | 46.94 | 11.13 | -33.45 | 24.63 | 63.02 | PK | 3.00 | 9.54 | 83.52 | 20.50 | PASS |
| UNII-CH36 | V | 1 | Horn SN6267 | 17921.70 | 28.06 | * | 47.00 | 11.14 | -33.46 | 24.68 | 52.74 | AV | 3.00 | 9.54 | 63.52 | 10.78 | PASS |
| UNII-CH36 | V | 1 | Waveline_899 | 20684.15 | 40.29 | * | 40.30 | 12.15 | -35.59 | 16.86 | 57.15 | PK* | 3.00 | 9.54 | 63.52 | 6.37 | PASS |
| UNII-CH36 | V | 1 | Waveline_899 | 23732.00 | 39.82 | * | 40.40 | 13.27 | -35.56 | 18.11 | 57.93 | PK* | 3.00 | 9.54 | 63.52 | 5.59 | PASS |

For frequency bands above 26.5 GHz, manual scans at a 1-2 cm distance were made with no emissions observed.


Notes:

*PK denotes QP or Average limits applied to emissions measured with a peak detector
BOLD signifies the highest signal measured near a carrier harmonic frequency
 No DUT emissions levels were measured above those reported

Formulae:

Total CF = Antenna Factor + Cable Factor + Other Factor (Amplifier Gain, filter loss, etc)
 Field Strength = SA Reading + Total CF
 Limit Distance Correction = 40*log(d1/d2) for F<30 MHz, 20*log(d1/d2) for F> 30 MHz:
 where d1 is the measurement distance, d2 is the published limit distance
 Limit = Specified Limit + Limit Distance Correction

No out-of-band emissions attributed to the DUT were measured within the restricted bands above the levels noted.

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | | | | |
|--|--------------------------------|-----------------------|------------------------------------|------------------|
| | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

H.9.5. Mode a (lower band) - Channel 52 Out-of-Band Spurious Emission Field Strengths @ Specified Distance (within restricted bands)

| Celltech Testing and Engineering Services Lab | | Project Number: | 632 | Standard: | FCC15.407b | | | | | | | | | | | | |
|-----------------------------------------------|----------|------------------------|----------------------------|-------------------------|------------|-------------|-------|-------|----------|-------------|----------------|------------|----------------|---------------------------|------------------|--------|-----------|
| | | Company: | Itronix | Test Start Date: | 3-Oct-05 | | | | | | | | | | | | |
| | | Product: | IX325 with CISCO ab/g WLAN | Test End Date: | 25-Oct-05 | | | | | | | | | | | | |
| Channel | Polarity | Distance | Rx Antenna | Frequency | SA Level | Noise Floor | Rx AF | Rx CL | Other Rx | Total Rx CF | Field Strength | Detector | Limit Distance | Limit Distance Correction | Calculated Limit | Margin | Pass/Fail |
| | | m | | MHz | dBuV | | dB/m | dB | dB | dB/m | dBuV/m | (PK/QP/AV) | m | dB | dBuV/m | dB | |
| UNII-CH52 | H | 3 | Bilog SN1607 | 125.02 | 24.40 | | 12.00 | 2.11 | 0.00 | 14.11 | 38.51 | PK* | 3.00 | 0.00 | 43.52 | 5.01 | PASS |
| UNII-CH52 | H | 3 | Bilog SN1607 | 408.31 | 25.80 | * | 17.03 | 2.81 | 0.00 | 19.84 | 45.64 | PK | 3.00 | 0.00 | 66.02 | 20.38 | PASS |
| UNII-CH52 | H | 3 | Bilog SN1607 | 408.31 | 13.80 | * | 17.03 | 2.81 | 0.00 | 19.84 | 33.64 | QP | 3.00 | 0.00 | 46.02 | 12.38 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1077.95 | 32.35 | * | 24.60 | 4.48 | 0.00 | 29.08 | 61.43 | PK | 3.00 | 0.00 | 73.98 | 12.55 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1075.04 | 16.05 | * | 24.60 | 4.47 | 0.00 | 29.06 | 45.11 | AV | 3.00 | 0.00 | 53.98 | 8.87 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1171.65 | 31.35 | * | 24.80 | 4.64 | 0.00 | 29.44 | 60.79 | PK | 3.00 | 0.00 | 73.98 | 13.19 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1164.09 | 16.05 | * | 24.78 | 4.64 | 0.00 | 29.42 | 45.47 | AV | 3.00 | 0.00 | 53.98 | 8.51 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1213.42 | 31.50 | * | 24.88 | 4.71 | 0.00 | 29.59 | 61.09 | PK | 3.00 | 0.00 | 73.98 | 12.89 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1208.76 | 16.10 | * | 24.87 | 4.70 | 0.00 | 29.57 | 45.67 | AV | 3.00 | 0.00 | 53.98 | 8.31 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1345.69 | 31.35 | * | 25.16 | 4.97 | 0.00 | 30.13 | 61.48 | PK | 3.00 | 0.00 | 73.98 | 12.50 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1342.53 | 16.25 | * | 25.15 | 4.96 | 0.00 | 30.12 | 46.37 | AV | 3.00 | 0.00 | 53.98 | 7.61 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1478.27 | 29.45 | * | 25.44 | 5.19 | 0.00 | 30.63 | 60.08 | PK | 3.00 | 0.00 | 73.98 | 13.90 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1473.01 | 16.20 | * | 25.43 | 5.19 | 0.00 | 30.61 | 46.81 | AV | 3.00 | 0.00 | 53.98 | 7.17 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1586.22 | 31.20 | * | 25.84 | 5.38 | 0.00 | 31.22 | 62.42 | PK | 3.00 | 0.00 | 73.98 | 11.55 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 1584.71 | 16.30 | * | 25.83 | 5.38 | 0.00 | 31.22 | 47.52 | AV | 3.00 | 0.00 | 53.98 | 6.46 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 2341.55 | 35.25 | * | 28.10 | 6.69 | -23.17 | 11.61 | 46.86 | PK* | 3.00 | 0.00 | 53.98 | 7.12 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 2684.31 | 35.15 | * | 28.98 | 7.26 | -23.14 | 13.10 | 48.25 | PK* | 3.00 | 0.00 | 53.98 | 5.73 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 2874.42 | 34.45 | * | 29.63 | 7.62 | -23.11 | 14.13 | 48.58 | PK* | 3.00 | 0.00 | 53.98 | 5.40 | PASS |
| UNII-CH52 | H | 3 | Horn SN6267 | 4940.00 | 38.70 | * | 33.29 | 10.77 | -32.30 | 11.77 | 50.47 | PK* | 3.00 | 0.00 | 53.98 | 3.51 | PASS |
| UNII-CH52 | H | 1 | Horn SN6267 | 11521.75 | 38.52 | * | 38.66 | 8.37 | -31.85 | 15.18 | 53.70 | PK* | 3.00 | 9.54 | 63.52 | 9.82 | PASS |
| UNII-CH52 | H | 1 | Horn SN6267 | 13391.05 | 39.88 | * | 40.36 | 9.23 | -31.43 | 18.16 | 58.04 | PK* | 3.00 | 9.54 | 63.52 | 5.48 | PASS |
| UNII-CH52 | H | 1 | Horn SN6267 | 15460.00 | 38.67 | * | 37.95 | 10.19 | -32.35 | 15.78 | 54.45 | PK* | 3.00 | 9.54 | 63.52 | 9.07 | PASS |
| UNII-CH52 | H | 1 | Horn SN6267 | 15779.08 | 36.74 | * | 37.48 | 10.33 | -11.16 | 36.65 | 73.39 | PK | 3.00 | 9.54 | 83.52 | 10.13 | PASS |
| UNII-CH52 | H | 1 | Horn SN6267 | 15566.35 | 28.00 | * | 37.71 | 10.23 | -17.01 | 30.93 | 58.93 | AV | 3.00 | 9.54 | 63.52 | 4.59 | PASS |
| UNII-CH52 | H | 1 | Horn SN6267 | 17977.45 | 38.74 | * | 47.50 | 11.16 | -33.43 | 25.22 | 63.96 | PK | 3.00 | 9.54 | 83.52 | 19.56 | PASS |
| UNII-CH52 | H | 1 | Horn SN6267 | 17982.20 | 28.16 | * | 47.54 | 11.16 | -33.43 | 25.27 | 53.43 | AV | 3.00 | 9.54 | 63.52 | 10.09 | PASS |
| UNII-CH52 | H | 1 | Waveline_899 | 20567.50 | 39.96 | * | 40.30 | 12.11 | -35.59 | 16.81 | 56.77 | PK* | 3.00 | 9.54 | 63.52 | 6.75 | PASS |
| UNII-CH52 | H | 1 | Waveline_899 | 21038.80 | 38.21 | * | 40.30 | 12.28 | -35.59 | 16.99 | 55.20 | PK* | 3.00 | 9.54 | 63.52 | 8.32 | PASS |
| UNII-CH52 | H | 1 | Waveline_899 | 23818.45 | 39.97 | * | 40.40 | 13.30 | -35.55 | 18.14 | 58.11 | PK* | 3.00 | 9.54 | 63.52 | 5.41 | PASS |
| UNII-CH52 | V | 3 | Bilog SN1607 | 325.90 | 25.10 | * | 14.44 | 2.65 | 0.00 | 17.08 | 42.18 | PK* | 3.00 | 0.00 | 46.02 | 3.84 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 1556.39 | 31.80 | * | 25.72 | 5.34 | 0.00 | 31.05 | 62.85 | PK | 3.00 | 0.00 | 73.98 | 11.12 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 1550.02 | 16.25 | * | 25.69 | 5.33 | 0.00 | 31.02 | 47.27 | AV | 3.00 | 0.00 | 53.98 | 6.71 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 1707.55 | 29.55 | * | 26.34 | 5.63 | 0.00 | 31.98 | 61.53 | PK | 3.00 | 0.00 | 73.98 | 12.45 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 1703.13 | 16.30 | * | 26.33 | 5.63 | 0.00 | 31.96 | 48.26 | AV | 3.00 | 0.00 | 53.98 | 5.72 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 2236.23 | 35.20 | * | 27.93 | 6.53 | -23.17 | 11.29 | 46.49 | PK* | 3.00 | 0.00 | 53.98 | 7.49 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 2353.52 | 38.25 | * | 28.12 | 6.70 | -23.17 | 11.65 | 49.90 | PK* | 3.00 | 0.00 | 53.98 | 4.08 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 2847.61 | 34.40 | * | 29.54 | 7.53 | -23.12 | 13.95 | 48.35 | PK* | 3.00 | 0.00 | 53.98 | 5.63 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 4906.11 | 36.00 | * | 33.21 | 10.66 | -32.29 | 11.58 | 47.58 | PK* | 3.00 | 0.00 | 53.98 | 6.40 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 4955.07 | 40.30 | * | 33.33 | 10.78 | -32.27 | 11.83 | 52.13 | PK* | 3.00 | 0.00 | 53.98 | 1.85 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 5042.18 | 42.30 | * | 33.49 | 10.97 | -32.25 | 12.22 | 54.52 | PK | 3.00 | 0.00 | 73.98 | 19.46 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 5042.18 | 25.70 | * | 33.49 | 10.97 | -32.25 | 12.22 | 37.92 | AV | 3.00 | 0.00 | 53.98 | 16.06 | PASS |
| UNII-CH52 | V | 3 | Horn SN6267 | 5394.60 | 36.80 | * | 34.03 | 11.95 | -32.17 | 13.81 | 50.61 | PK* | 3.00 | 0.00 | 53.98 | 3.37 | PASS |
| UNII-CH52 | V | 1 | Horn SN6267 | 8302.95 | 38.73 | * | 37.29 | 6.89 | -32.07 | 12.12 | 50.85 | PK* | 3.00 | 9.54 | 63.52 | 12.68 | PASS |
| UNII-CH52 | V | 1 | Horn SN6267 | 11495.80 | 38.43 | * | 38.65 | 8.36 | -31.87 | 15.13 | 53.56 | PK* | 3.00 | 9.54 | 63.52 | 9.96 | PASS |
| UNII-CH52 | V | 1 | Horn SN6267 | 13389.10 | 39.65 | * | 40.35 | 9.23 | -31.43 | 18.15 | 57.80 | PK* | 3.00 | 9.54 | 63.52 | 5.72 | PASS |
| UNII-CH52 | V | 1 | Horn SN6267 | 15358.40 | 39.88 | * | 38.36 | 10.14 | -32.33 | 16.17 | 56.05 | PK* | 3.00 | 9.54 | 63.52 | 7.47 | PASS |
| UNII-CH52 | V | 1 | Horn SN6267 | 15773.40 | 38.82 | * | 37.49 | 10.33 | -17.17 | 30.65 | 69.47 | PK | 3.00 | 9.54 | 83.52 | 14.05 | PASS |
| UNII-CH52 | V | 1 | Horn SN6267 | 15782.50 | 27.92 | * | 37.48 | 10.33 | -17.16 | 30.65 | 58.57 | AV | 3.00 | 9.54 | 63.52 | 4.95 | PASS |
| UNII-CH52 | V | 1 | Horn SN6267 | 17983.90 | 39.10 | * | 47.56 | 11.16 | -33.43 | 25.28 | 64.38 | PK | 3.00 | 9.54 | 83.52 | 19.14 | PASS |
| UNII-CH52 | V | 1 | Horn SN6267 | 17987.85 | 28.29 | * | 47.59 | 11.16 | -33.44 | 25.32 | 53.61 | AV | 3.00 | 9.54 | 63.52 | 9.92 | PASS |
| UNII-CH52 | V | 1 | Waveline_899 | 21038.80 | 38.10 | * | 40.30 | 12.28 | -35.59 | 16.99 | 55.09 | PK* | 3.00 | 9.54 | 63.52 | 8.43 | PASS |
| UNII-CH52 | V | 1 | Waveline_899 | 23920.95 | 39.81 | * | 40.40 | 13.34 | -35.55 | 18.18 | 57.99 | PK* | 3.00 | 9.54 | 63.52 | 5.53 | PASS |

For frequency bands above 26.5 GHz, manual scans at a 1-2 cm distance were made with no emissions observed.

Same notes as H.9.1

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab | |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| | | | |
|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |


H.9.6. Mode a (lower band) - Channel 64 Out-of-Band Spurious Emission Field Strengths @ Specified Distance (within restricted bands)

| | | Project Number: | 632 | | | Standard: | FCC15.407b | | | | | | | | | | |
|-----------|----------|------------------------|-----------------------------|------------------|------------------|-------------------------|------------|-------|----------|----------------|-------------------|------------|-------------------|---------------------------------|---------------------|--------|-----------|
| | | Company: | Itronix | | | Test Start Date: | 3-Oct-05 | | | | | | | | | | |
| | | Product: | IX325 with CISCO a/b/g WLAN | | | Test End Date: | 25-Oct-05 | | | | | | | | | | |
| Channel | Polarity | Distance m | Rx Antenna | Frequency MHz | SA Level dBuV | Noise Floor | Rx AF | Rx CL | Other Rx | Total Rx CF | Field Strength | Detector | Limit Distance | Limit Distance Correction | Calculated Limit | Margin | Pass/Fail |
| | | | | | | | dB/m | dB | dB | dB/m | dBuV/m | (PK/QP/AV) | m | dB | dBuV/m | dB | |
| UNII-CH64 | H | 3 | Bilog SN1607 | 332.58 | 26.90 | * | 14.70 | 2.65 | 0.00 | 17.35 | 44.25 | PK | 3.00 | 0.00 | 66.02 | 21.77 | PASS |
| UNII-CH64 | H | 3 | Bilog SN1607 | 332.58 | 14.20 | ** | 14.70 | 2.65 | 0.00 | 17.35 | 31.55 | QP | 3.00 | 0.00 | 46.02 | 14.47 | PASS |
| UNII-CH64 | H | 3 | Bilog SN1607 | 403.97 | 25.90 | ** | 16.86 | 2.80 | 0.00 | 19.66 | 45.56 | PK | 3.00 | 0.00 | 66.02 | 20.46 | PASS |
| UNII-CH64 | H | 3 | Bilog SN1607 | 403.97 | 13.90 | ** | 16.86 | 2.80 | 0.00 | 19.66 | 33.56 | QP | 3.00 | 0.00 | 46.02 | 12.46 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1041.48 | 29.70 | ** | 24.53 | 4.39 | 0.00 | 28.92 | 58.62 | PK | 3.00 | 0.00 | 73.98 | 15.36 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1040.13 | 16.05 | ** | 24.52 | 4.39 | 0.00 | 28.91 | 44.96 | AV | 3.00 | 0.00 | 53.98 | 9.02 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1061.16 | 29.60 | ** | 24.57 | 4.42 | 0.00 | 28.98 | 58.58 | PK | 3.00 | 0.00 | 73.98 | 15.39 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1064.12 | 16.05 | ** | 24.57 | 4.42 | 0.00 | 29.00 | 45.05 | AV | 3.00 | 0.00 | 53.98 | 8.93 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1101.86 | 29.55 | ** | 24.65 | 4.50 | 0.00 | 29.15 | 58.70 | PK | 3.00 | 0.00 | 73.98 | 15.28 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1101.00 | 16.05 | ** | 24.65 | 4.49 | 0.00 | 29.14 | 45.19 | AV | 3.00 | 0.00 | 53.98 | 8.79 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1344.95 | 30.85 | ** | 25.16 | 4.96 | 0.00 | 30.12 | 60.97 | PK | 3.00 | 0.00 | 73.98 | 13.01 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1340.55 | 16.20 | ** | 25.15 | 4.96 | 0.00 | 30.11 | 46.31 | AV | 3.00 | 0.00 | 53.98 | 7.67 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1506.77 | 29.55 | ** | 25.51 | 5.26 | 0.00 | 30.77 | 60.32 | PK | 3.00 | 0.00 | 73.98 | 13.66 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1505.96 | 16.25 | ** | 25.51 | 5.26 | 0.00 | 30.76 | 47.01 | AV | 3.00 | 0.00 | 53.98 | 6.97 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1709.67 | 29.85 | ** | 26.35 | 5.64 | 0.00 | 31.99 | 61.84 | PK | 3.00 | 0.00 | 73.98 | 12.14 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 1704.74 | 16.35 | ** | 26.33 | 5.63 | 0.00 | 31.96 | 48.31 | AV | 3.00 | 0.00 | 53.98 | 5.67 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 2274.60 | 35.10 | ** | 27.99 | 6.59 | -23.16 | 11.42 | 46.52 | PK* | 3.00 | 0.00 | 53.98 | 7.46 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 2744.48 | 33.95 | ** | 29.18 | 7.36 | -23.12 | 13.42 | 47.37 | PK* | 3.00 | 0.00 | 53.98 | 6.61 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 4953.55 | 45.40 | ** | 33.32 | 10.78 | -32.28 | 11.82 | 57.22 | PK | 3.00 | 0.00 | 73.98 | 16.76 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 4953.55 | 20.80 | ** | 33.32 | 10.78 | -32.28 | 11.82 | 32.62 | AV | 3.00 | 0.00 | 53.98 | 21.36 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 5111.95 | 43.60 | ** | 33.60 | 11.13 | -32.22 | 12.51 | 56.11 | PK | 3.00 | 0.00 | 73.98 | 17.87 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 5111.95 | 25.70 | ** | 33.60 | 11.13 | -32.22 | 12.51 | 38.21 | AV | 3.00 | 0.00 | 53.98 | 15.77 | PASS |
| UNII-CH64 | H | 3 | Horn SN6267 | 5428.54 | 30.50 | ** | 34.08 | 11.72 | -32.13 | 13.66 | 44.16 | PK* | 3.00 | 0.00 | 53.98 | 9.82 | PASS |
| UNII-CH64 | H | 1 | Horn SN6267 | 9060.40 | 39.02 | ** | 37.96 | 7.24 | -32.06 | 13.13 | 52.15 | PK* | 3.00 | 9.54 | 63.52 | 11.37 | PASS |
| UNII-CH64 | H | 1 | Horn SN6267 | 9407.60 | 38.27 | ** | 37.90 | 7.40 | -32.02 | 13.28 | 51.55 | PK* | 3.00 | 9.54 | 63.52 | 11.98 | PASS |
| UNII-CH64 | H | 1 | Horn SN6267 | 10642.60 | 45.24 | ** | 38.10 | 7.97 | -16.45 | 29.61 | 74.85 | PK | 3.00 | 9.54 | 83.52 | 8.67 | PASS |
| UNII-CH64 | H | 1 | Horn SN6267 | 10640.55 | 32.96 | ** | 38.09 | 7.97 | -16.45 | 29.61 | 62.57 | AV | 3.00 | 9.54 | 63.52 | 0.95 | PASS |
| UNII-CH64 | H | 1 | Horn SN6267 | 13346.40 | 39.97 | ** | 40.24 | 9.21 | -31.53 | 17.92 | 57.89 | PK* | 3.00 | 9.54 | 63.52 | 5.63 | PASS |
| UNII-CH64 | H | 1 | Horn SN6267 | 15471.00 | 39.81 | ** | 37.91 | 10.19 | -32.37 | 15.72 | 55.53 | PK* | 3.00 | 9.54 | 63.52 | 7.99 | PASS |
| UNII-CH64 | H | 1 | Horn SN6267 | 15956.30 | 49.77 | ** | 37.28 | 10.41 | -17.25 | 30.45 | 80.22 | PK | 3.00 | 9.54 | 83.52 | 3.30 | PASS |
| UNII-CH64 | H | 1 | Horn SN6267 | 15957.15 | 29.60 | ** | 37.28 | 10.41 | -14.25 | 33.45 | 63.05 | AV | 3.00 | 9.54 | 63.52 | 0.47 | PASS |
| UNII-CH64 | H | 1 | Horn SN6267 | 17811.10 | 38.73 | ** | 46.01 | 11.10 | -33.40 | 23.71 | 62.44 | PK* | 3.00 | 9.54 | 63.52 | 1.08 | PASS |
| UNII-CH64 | H | 1 | Waveline 899 | 20676.45 | 40.57 | ** | 40.30 | 12.15 | -35.59 | 16.85 | 57.42 | PK* | 3.00 | 9.54 | 63.52 | 6.10 | PASS |
| UNII-CH64 | H | 1 | Waveline 899 | 21277.80 | 39.01 | ** | 40.30 | 12.37 | -35.58 | 17.08 | 56.09 | PK* | 3.00 | 9.54 | 63.52 | 7.43 | PASS |
| UNII-CH64 | H | 1 | Waveline 899 | 23982.25 | 39.99 | ** | 40.40 | 13.37 | -35.55 | 18.21 | 58.20 | PK* | 3.00 | 9.54 | 63.52 | 5.32 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 1061.71 | 29.65 | ** | 24.57 | 4.42 | 0.00 | 28.99 | 58.64 | PK | 3.00 | 0.00 | 73.98 | 15.34 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 1060.74 | 16.05 | ** | 24.57 | 4.42 | 0.00 | 28.98 | 45.03 | AV | 3.00 | 0.00 | 53.98 | 8.95 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 1131.57 | 31.70 | ** | 24.71 | 4.55 | 0.00 | 29.26 | 60.96 | PK | 3.00 | 0.00 | 73.98 | 13.02 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 1134.68 | 16.10 | ** | 24.72 | 4.55 | 0.00 | 29.27 | 45.37 | AV | 3.00 | 0.00 | 53.98 | 8.61 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 1147.34 | 29.65 | ** | 24.75 | 4.58 | 0.00 | 29.32 | 58.97 | PK | 3.00 | 0.00 | 73.98 | 15.01 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 1150.54 | 16.10 | ** | 24.75 | 4.59 | 0.00 | 29.34 | 45.44 | AV | 3.00 | 0.00 | 53.98 | 8.53 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 1206.93 | 29.35 | ** | 24.87 | 4.70 | 0.00 | 29.57 | 58.92 | PK | 3.00 | 0.00 | 73.98 | 15.06 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 1201.43 | 16.10 | ** | 24.86 | 4.68 | 0.00 | 29.54 | 45.64 | AV | 3.00 | 0.00 | 53.98 | 8.33 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 1466.24 | 32.00 | ** | 25.41 | 5.18 | 0.00 | 30.59 | 62.59 | PK | 3.00 | 0.00 | 73.98 | 11.39 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 1459.38 | 16.20 | ** | 25.40 | 5.17 | 0.00 | 30.57 | 46.77 | AV | 3.00 | 0.00 | 53.98 | 7.21 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 2342.09 | 35.30 | ** | 28.10 | 6.69 | -23.17 | 11.61 | 46.91 | PK* | 3.00 | 0.00 | 53.98 | 7.07 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 3818.41 | 31.70 | ** | 32.00 | 9.21 | -32.29 | 8.92 | 40.62 | PK* | 3.00 | 0.00 | 53.98 | 13.36 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 4954.85 | 50.50 | ** | 33.33 | 10.78 | -32.27 | 11.83 | 62.33 | PK | 3.00 | 0.00 | 73.98 | 11.65 | PASS |
| UNII-CH64 | V | 3 | Horn SN6267 | 4954.85 | 22.70 | ** | 33.33 | 10.78 | -32.27 | 11.83 | 34.53 | AV | 3.00 | 0.00 | 53.98 | 19.45 | PASS |
| UNII-CH64 | V | 1 | Horn SN6267 | 9138.45 | 38.89 | ** | 37.94 | 7.28 | -32.07 | 13.15 | 52.04 | PK* | 3.00 | 9.54 | 63.52 | 11.48 | PASS |
| UNII-CH64 | V | 1 | Horn SN6267 | 10640.10 | 38.65 | ** | 38.09 | 7.97 | -13.45 | 32.61 | 71.26 | PK | 3.00 | 9.54 | 83.52 | 12.26 | PASS |
| UNII-CH64 | V | 1 | Horn SN6267 | 10640.35 | 27.75 | ** | 38.09 | 7.97 | -13.45 | 32.61 | 60.36 | AV | 3.00 | 9.54 | 63.52 | 3.16 | PASS |
| UNII-CH64 | V | 1 | Horn SN6267 | 13335.50 | 39.79 | ** | 40.21 | 9.21 | -31.54 | 17.88 | 57.67 | PK* | 3.00 | 9.54 | 63.52 | 5.85 | PASS |
| UNII-CH64 | V | 1 | Horn SN6267 | 15442.80 | 39.47 | ** | 38.02 | 10.18 | -32.33 | 15.86 | 55.33 | PK* | 3.00 | 9.54 | 63.52 | 8.19 | PASS |
| UNII-CH64 | V | 1 | Horn SN6267 | 19961.10 | 38.56 | ** | 37.28 | 10.42 | -14.25 | 33.45 | 72.01 | PK | 3.00 | 9.54 | 83.52 | 11.52 | PASS |
| UNII-CH64 | V | 1 | Horn SN6267 | 15968.20 | 29.06 | ** | 37.27 | 10.42 | -14.26 | 33.43 | 62.49 | AV | 3.00 | 9.54 | 63.52 | 1.03 | PASS |
| UNII-CH64 | V | 1 | Horn SN6267 | 17982.30 | 39.10 | ** | 47.54 | 11.16 | -33.43 | 25.27 | 64.37 | PK | 3.00 | 9.54 | 83.52 | 19.15 | PASS |
| UNII-CH64 | V | 1 | Horn SN6267 | 17983.90 | 28.33 | ** | 47.56 | 11.16 | -33.43 | 25.28 | 53.61 | AV | 3.00 | 9.54 | 63.52 | 9.91 | PASS |
| UNII-CH64 | V | 1 | Waveline 899 | 20515.75 | 39.97 | ** | 40.30 | 12.09 | -35.59 | 16.79 | 56.76 | PK* | 3.00 | 9.54 | 63.52 | 6.76 | PASS |
| UNII-CH64 | V | 1 | Waveline 899 | 21277.80 | 37.76 | ** | 40.30 | 12.37 | -35.58 | 17.08 | 54.84 | PK* | 3.00 | 9.54 | 63.52 | 8.68 | PASS |
| UNII-CH64 | V | 1 | Waveline 899 | 22737.40 | 39.57 | ** | 40.40 | 12.90 | -35.57 | 17.73 | 57.30 | PK* | 3.00 | 9.54 | 63.52 | 6.22 | PASS |
| UNII-CH64 | V | 1 | Waveline 899 | 23918.80 | 40.00 | ** | 40.40 | 13.34 | -35.55 | 18.18 | 58.18 | PK* | 3.00 | 9.54 | 63.52 | 5.34 | PASS |

For frequency bands above 26.5 GHz, manual scans at a 1-2 cm distance were made with no emissions observed.

Notes the same as H.9.1

| | | | | | | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------|---------------|----------------------------|---------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab | |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | A GENERAL DYNAMICS COMPANY | |
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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

H.10. PASS/FAIL

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

FCC 15.205 (a) (b) and 15.209 (a): No emissions were measured within the restricted bands as outlined in 15.205 that exceeded the limits stated in 15.209.

The emission within a restricted band, with the lowest margin to the limit was measured at 1 meter, in the horizontal polarization with Channel 64 transmitting. The frequency was 15957.15 MHz, with a corrected average field strength of 63.05 dBuV/m vs. the average limit of 63.52 dBuV/m, resulting in a 0.47 dB margin.


H.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.



Russell Pipe
Senior Compliance Technologist
Celltech Labs Inc.

25Oct05
Date

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

Appendix I - Peak Power Spectral Density Measurement

| I.1. REFERENCES | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Normative Reference Standard | FCC CFR 47 §15.407(a) (1), &(2) |
| Procedure Reference | FCC DA 02-2138 Appendix A - Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E - August 30, 2002 |


| I.2. LIMITS | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I.2.1. FCC CFR | |
| §15.407(a) (1): | <i>For the band 5.15 – 5.25 GHz.... the peak spectral density shall not exceed 4 dBm in any 1-MHz band.</i> |
| §15.407(a) (2): | <i>For the band 5.25 – 5.35 GHz.... the peak spectral density shall not exceed 11 dBm in any 1-MHz band.</i> |
| §15.407(h) (1): | <i>.... A TPC mechanism is not required for systems with an e.i.r.p of less than 500 mW.*</i> |
| I.2.2. IC RSS-210 Annex 9 | |
| A9.2 § (1): | <i>For the band 5150 – 5250 MHz.... The e.i.r.p spectral density shall not exceed 10 dBm in any 1-MHz band.</i> |
| A9.2 § (2): | <i>For the band 5250 – 5305 MHz.... The e.i.r.p spectral density shall not exceed 11 dBm in any 1-MHz band.In addition, devices with maximum e.i.r.p greater than 500 mW shall implement TPC*</i> |


* The device has an e.i.r.p lower than 500 mW therefore implementation of TPC is not required, as the highest conducted power measured for these bands was 37.4 mW (FCC), 37.1 mW (IC).

| I.3. ENVIRONMENTAL CONDITIONS | |
|-------------------------------|--------------|
| Temperature | 25 ± 3 °C |
| Humidity | 35 ± 5 % RH |
| Barometric Pressure | uncontrolled |

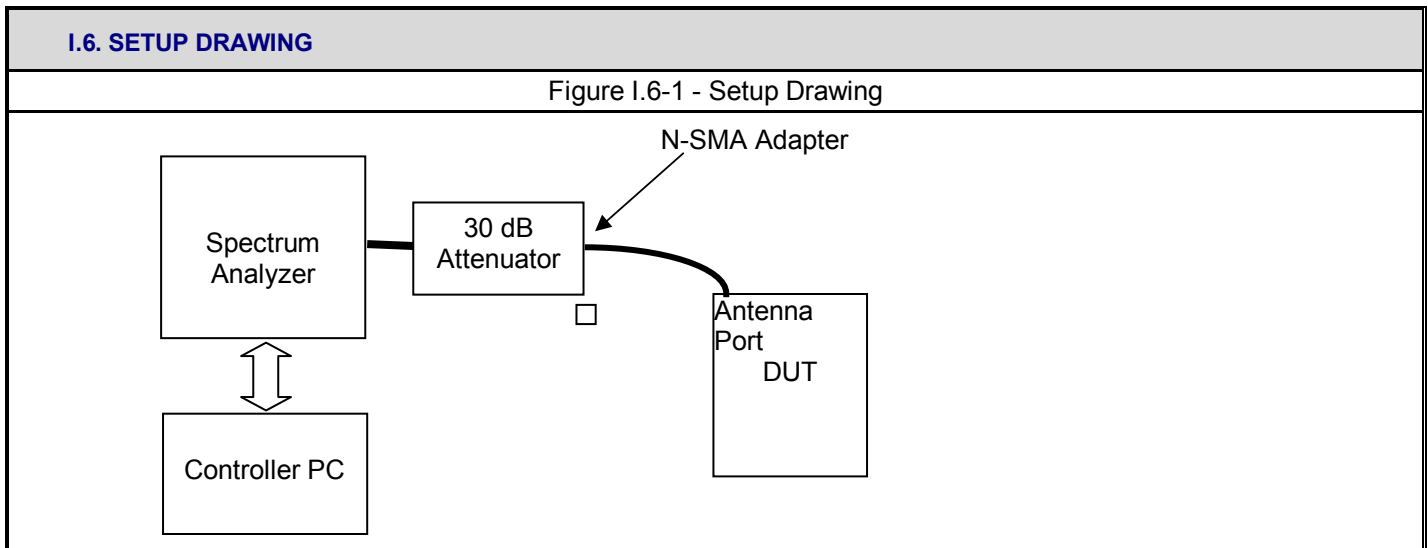
| I.4. EQUIPMENT LIST | | | | | |
|---------------------|--------------|-----------|------------------------|----------|---------|
| ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE |
| 00015 | Agilent | E4408B | Spectrum Analyzer | 24Jan05 | 24Jan06 |
| Customer supplied | n/a | n/a | 1ft. RG223/U RF Cable | n/a | n/a |
| 00076 | Pasternack | PE7014-30 | 30dB 2 Watt Attenuator | na* | na* |

*Verification made prior to measurement

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

| I.5. MEASUREMENT EQUIPMENT SETUP | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement Equipment Connections | The equipment was connected as shown in the setup drawing in I.6. | | |
| Measurement Equipment Settings | <p>To evaluate the peak power spectral density, software and a PC controller were used to set the spectrum analyzer using the following setting:</p> <table border="0"> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> Method 1 RBW – 1 MHz VBW – 3 MHz Detector – Peak Display - Log Averaging – On, Power, 100 traces Trace - Max Hold Span -25 MHz Offset – appropriate for external attenuation (-31.4 dB) </td> <td style="vertical-align: top;"> <input checked="" type="checkbox"/> Method 2 RBW – 1 MHz VBW – 3 MHz Detector – Sample Display - Log Averaging – On, Power, 100 traces Trace - Write Span -25 MHz Offset – appropriate for external attenuation (-31.4 dB) </td> </tr> </table> | <input type="checkbox"/> Method 1 RBW – 1 MHz VBW – 3 MHz Detector – Peak Display - Log Averaging – On, Power, 100 traces Trace - Max Hold Span -25 MHz Offset – appropriate for external attenuation (-31.4 dB) | <input checked="" type="checkbox"/> Method 2 RBW – 1 MHz VBW – 3 MHz Detector – Sample Display - Log Averaging – On, Power, 100 traces Trace - Write Span -25 MHz Offset – appropriate for external attenuation (-31.4 dB) |
| <input type="checkbox"/> Method 1 RBW – 1 MHz VBW – 3 MHz Detector – Peak Display - Log Averaging – On, Power, 100 traces Trace - Max Hold Span -25 MHz Offset – appropriate for external attenuation (-31.4 dB) | <input checked="" type="checkbox"/> Method 2 RBW – 1 MHz VBW – 3 MHz Detector – Sample Display - Log Averaging – On, Power, 100 traces Trace - Write Span -25 MHz Offset – appropriate for external attenuation (-31.4 dB) | | |
| Measurement Procedure | A PC controller was used to record the spectrum analyzer display with the above settings as described in the FCC Appendix A Guidelines document. | | |

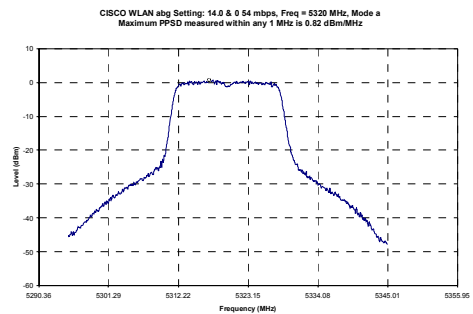
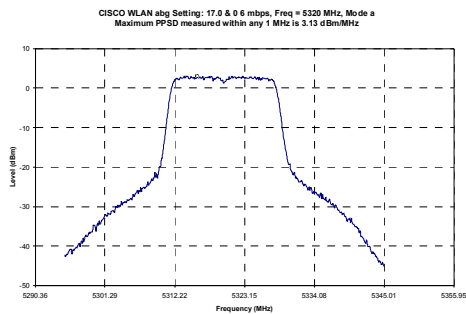
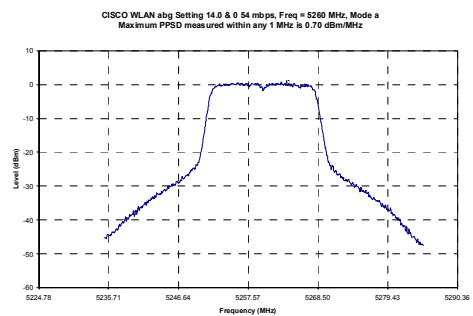
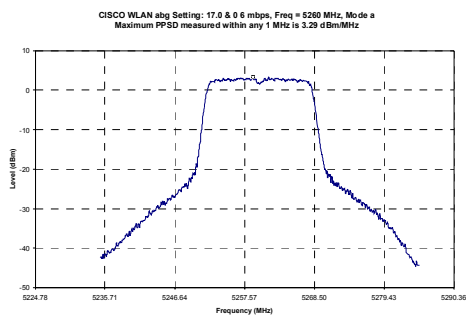
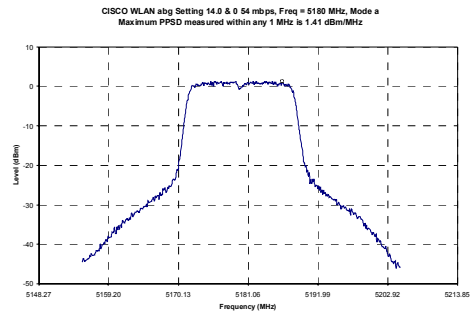
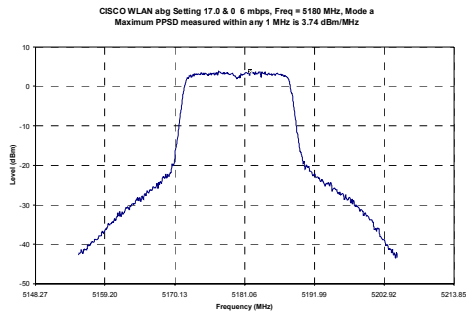




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|--------------------------------|-----------------------|------------------------------------|------------------|
| Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

I.7. TEST RESULTS

I.7.1. Mode a (lower band)




| Channel | Channel Frequency MHz | PPSD | | Limit ¹ | | Pass / Fail |
|---------|--------------------------|--------|---------|--------------------|------------------|-------------|
| | | 6 mbps | 54 mbps | FCC | IC | |
| | | dBm | dBm | dBm ³ | dBm ³ | |
| 36 | 5180 | 3.74 | 1.41 | 4 | 10 | Pass |
| 52 | 5260 | 3.29 | 0.70 | 11 | 11 | Pass |
| 64 | 5320 | 3.13 | 0.82 | 11 | 11 | Pass |

Note 1: If the PSD exceeds Limit 2 by more than 3 dB, the applicable Limit 3 is reduced by the amount it exceeds.

Note 2: Limit based on 10logB where B is the emission bandwidth

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab | |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

I.8. PASS/FAIL

In reference to the results outlined in I.7, the DUT passes the requirements as stated in the reference standards as follows:

FCC 15.407 (a) (1):

For the band 5.15 – 5.25 GHz, the peak power spectral density shall not exceed +4 dBm in any 1 MHz band.

FCC 15.407 (a) (2):

For the band 5.25 – 5.35 GHz, the peak power spectral density shall not exceed +11 dBm in any 1 MHz band.

RSS 210 A9.2 (1):

For the band 5150 – 5250 MHz, the peak power spectral density shall not exceed +10 dBm in any 1 MHz band.

RSS 210 A9.2 (2):

For the band 5250 – 5350 GHz, the peak power spectral density shall not exceed +11 dBm in any 1 MHz band.

The highest PPSD value measured within the 5.15 – 5.25 GHz band was 3.74 dBm/ MHz. The highest PPSD value measured within the 5.25 – 5.35 GHz band was 3.29 dBm/ MHz.

I.9. 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.




 Duane M. Friesen, C.E.T.
 EMC Manager
 Celltech Labs Inc.

 25Oct05

Date

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

Appendix J - Conducted Powerline Emissions Measurement

| J.1. REFERENCES | |
|-------------------------------------|-------------------------------------------------------------|
| Normative Reference Standard | CFR 47 FCC Part 15 §15.407 (6) (CFR 47 FCC Part 15 §15.207) |
| Procedure Reference | ANSI C63.4 |

| J.2. LIMITS | |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| §15.407(b) (6): | Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in Section 15.207. |
| §15.207: | Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each powerline and ground at the power terminal. |
| Frequency of Emission (MHz) | Conducted Limit (dBuV) |
| | Quasi-Peak Average |
| 0.15 – 0.5 | 66 to 56* 56 to 46* |
| 0.50 – 5.0 | 56 46 |
| 5.0 – 30.0 | 60 50 |

*Decreases logarithmically with frequency.

| J.3. ENVIRONMENTAL CONDITIONS | |
|-------------------------------|--------------|
| Temperature | 25 ± 3 °C |
| Humidity | 35 ± 5 % RH |
| Barometric Pressure | uncontrolled |

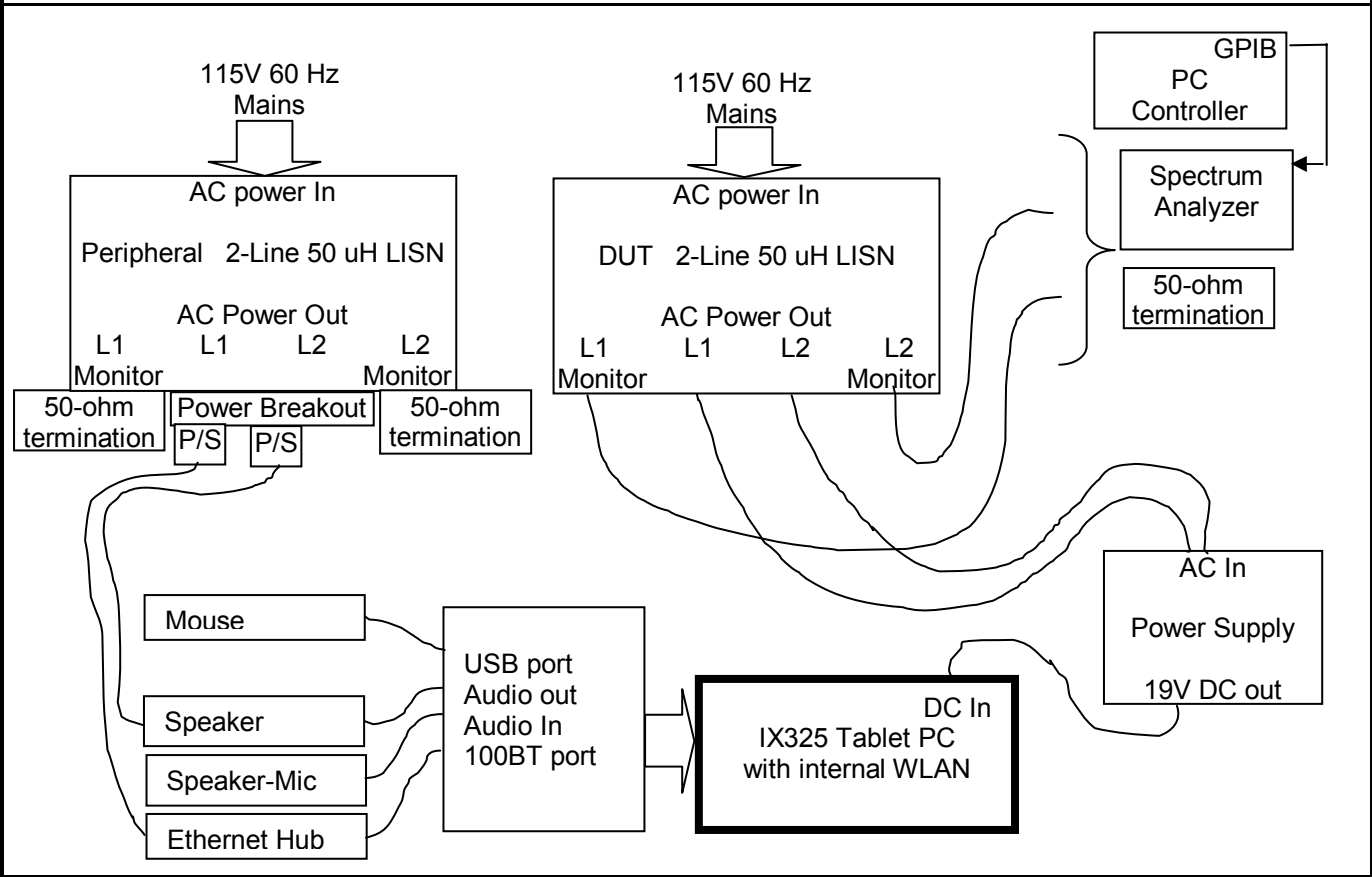
| J.4. EQUIPMENT LIST | | | | | |
|---------------------|--------------|--------|--------------------------------------|----------|---------|
| ASSET NUMBER | MANUFACTURER | MODEL | DESCRIPTION | LAST CAL | CAL DUE |
| 00049 | HP | 85650A | Quasi-Peak Adapter | 13Apr05 | 13Apr06 |
| 00047 | HP | 85685A | RF Preselector | 13Apr05 | 13Apr06 |
| 00051 | HP | 8566B | Spectrum Analyzer RF Section | 12Apr05 | 12Apr06 |
| 00083 | EMCO | 3825/2 | Line Impedance Stabilization Network | 26Apr05 | 26Apr06 |
| 00084 | EMCO | 3825/2 | Line Impedance Stabilization Network | 26Apr05 | 26Apr06 |


J.5. MEASUREMENT EQUIPMENT SETUP

| | |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASUREMENT EQUIPMENT CONNECTIONS | The conducted emissions were measured on each of the two AC powerline leads connected to the DUT's power supply brick. A two line LISN was used to make this measurement. A drawing of the equipment setup is shown in J.7 |
| MEASUREMENT EQUIPMENT SETTINGS | <p>Each of the monitor ports from the 2-line LISN was connected in turn to the spectrum analyzer. The port not connected to the analyzer was terminated in a 50-ohm load. A prescan of the peak emission levels was made of the 150 kHz – 30 MHz range split into 4 equal frequency bands. The following were the spectrum analyzer settings:</p> <ul style="list-style-type: none"> Start Frequency and Stop Frequency set by software for each of the four bands RBW: 100 kHz VBW: 300 kHz Sweep: 500 mS <p>The resulting data from each band was corrected and collected by software and presented in the graphical representations shown in J.9 for the two leads. The frequency points with peak values within 20 dB of the average limit were selected and software was used to control the analyzer to optimize the signal for each type of detector (peak, quasi-peak and average). This data was corrected by the software is presented in the tables shown in section J.9.</p> |

J.6. SETUP DRAWING

Figure J.6-1 - Setup Drawing



| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

J.7. SETUP PHOTOS

Photograph J-1 - AC Powerline Conducted Emission Cable Placement

Photograph J-2 - AC Powerline Conducted Emission Configuration



J.8. DUT OPERATING DESCRIPTION

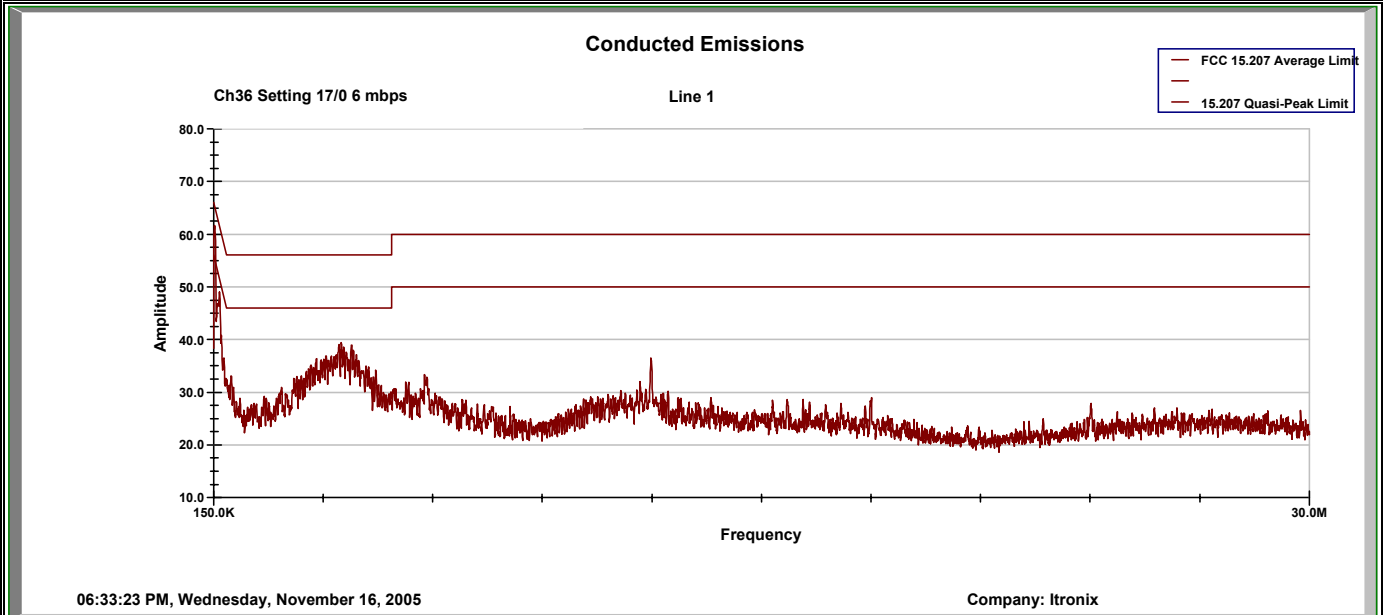
| | |
|---------------------|------------------------------------------------------------------------------------------------|
| WLAN: | The WLAN was set to transmit at full power on Channel 36, Mode a 6 Mb/s |
| PC: | Other than operating the WLAN software and running MS windows, no PC exercising was performed. |
| Peripherals: | All peripherals were active, but no specific traffic was initiated. |



| | | | |
|--------------------------------|-----------------------|------------------------------------|------------------|
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| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

J.9. TEST RESULTS

J.9.1. Line 1 Conducted Emissions



Project Number: 632
Company: Itronix
Product: IX325 with CISCO a/b/g WLAN

Standard: FCC 15.207
Test Start Date: 16-Nov-05
Test End Date: 16-Nov-05

Line 1 Conducted Emissions

| Frequency MHz | Uncorrected Reading | | | Correction Factor dB | Corrected Emission Level | | | Quasi-Peak Limit dBuV | Quasi-Peak Margin dB | Average Limit dBuV | Average Margin dB | Pass/Fail |
|------------------|---------------------|--------------------|-----------------|----------------------------|--------------------------|--------------------|-----------------|-----------------------------|----------------------------|-----------------------|-------------------------|-----------|
| | Peak dBuV | Quasi-Peak dBuV | Average dBuV | | Peak dBuV | Quasi-Peak dBuV | Average dBuV | | | | | |
| 0.159 | 67.50 | 55.99 | 28.80 | -1.99 | 65.52 | 54.01 | 26.81 | 65.51 | 11.51 | 55.51 | 28.70 | Pass |
| 0.172 | 65.30 | 54.07 | 25.59 | -1.78 | 63.52 | 52.29 | 23.81 | 64.89 | 12.60 | 54.89 | 31.07 | Pass |
| 0.179 | 63.30 | 52.76 | 25.20 | -1.67 | 61.63 | 51.09 | 23.52 | 64.52 | 13.44 | 54.52 | 31.00 | Pass |
| 0.188 | 62.20 | 51.60 | 24.61 | -1.55 | 60.65 | 50.05 | 23.05 | 64.12 | 14.08 | 54.12 | 31.07 | Pass |
| 0.204 | 61.10 | 50.78 | 36.60 | -1.39 | 59.71 | 49.39 | 35.21 | 63.45 | 14.06 | 53.45 | 18.24 | Pass |
| 0.208 | 60.00 | 49.53 | 23.01 | -1.35 | 58.65 | 48.18 | 21.66 | 63.29 | 15.11 | 53.29 | 31.63 | Pass |
| 3.653 | 45.50 | 30.85 | 15.24 | -0.30 | 45.20 | 30.55 | 14.94 | 56.00 | 25.45 | 46.00 | 31.06 | Pass |
| 17.919 | 35.70 | 22.51 | 17.17 | -0.39 | 35.31 | 22.12 | 16.78 | 60.00 | 37.88 | 50.00 | 33.22 | Pass |
| 23.950 | 33.90 | 17.56 | 10.96 | -0.45 | 33.45 | 17.11 | 10.50 | 60.00 | 42.89 | 50.00 | 39.50 | Pass |

Corrected Emission Level (dBuV) = Uncorrected Reading (dBuV) + Correction Factor (dB)
 Margin (dB) = Limit (dBuV) - Corrected Emission Level (dBuV)

Calculations

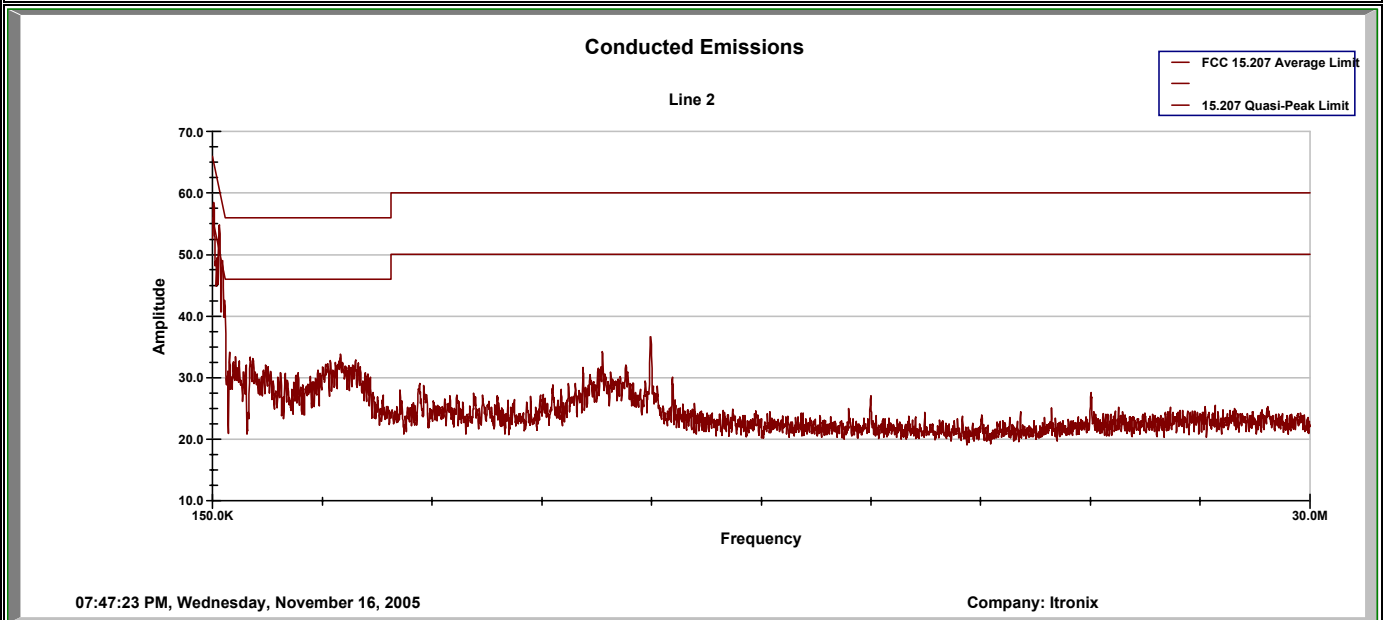
CF = Correction Factor
 Emission Level = Measured Level + correction factor
 Margin = Limit - Emission Level

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab | |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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| Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

J.9.2. Line 2 Conducted Emissions



Project Number: 632
Company: Itronix
Product: IX325 with CISCO a/b/g WLAN

Standard: FCC 15.207
Test Start Date: 16-Nov-05
Test End Date: 16-Nov-05


Line 2 Conducted Emissions

| Frequency MHz | Uncorrected Reading | | | Correction Factor dB | Corrected Emission Level | | | Quasi-Peak Limit dBuV | Quasi-Peak Margin dB | Average Limit dBuV | Average Margin dB | Pass/Fail |
|------------------|---------------------|--------------------|-----------------|----------------------------|--------------------------|--------------------|-----------------|-----------------------------|----------------------------|-----------------------|-------------------------|-----------|
| | Peak dBuV | Quasi-Peak dBuV | Average dBuV | | Peak dBuV | Quasi-Peak dBuV | Average dBuV | | | | | |
| 0.156 | 67.20 | 56.05 | 28.92 | -2.05 | 65.16 | 54.01 | 26.88 | 65.67 | 11.66 | 55.67 | 28.79 | Pass |
| 0.164 | 65.80 | 55.44 | 27.67 | -1.91 | 63.89 | 53.53 | 25.76 | 65.26 | 11.73 | 55.26 | 29.50 | Pass |
| 0.171 | 64.10 | 53.74 | 25.93 | -1.79 | 62.31 | 51.95 | 24.14 | 64.90 | 12.95 | 54.90 | 30.76 | Pass |
| 0.187 | 62.10 | 52.23 | 22.99 | -1.58 | 60.53 | 50.66 | 21.41 | 64.15 | 13.50 | 54.15 | 32.74 | Pass |
| 0.196 | 61.40 | 50.56 | 22.33 | -1.49 | 59.91 | 49.07 | 20.84 | 63.80 | 14.73 | 53.80 | 32.96 | Pass |
| 0.324 | 50.20 | 40.38 | 9.70 | -0.74 | 49.46 | 39.64 | 8.96 | 59.60 | 19.96 | 49.60 | 40.64 | Pass |
| 0.335 | 51.80 | 42.23 | 37.43 | -0.72 | 51.08 | 41.51 | 36.72 | 59.32 | 17.81 | 49.32 | 12.61 | Pass |
| 0.474 | 43.10 | 34.39 | 30.65 | -0.50 | 42.60 | 33.89 | 30.15 | 56.44 | 22.55 | 46.44 | 16.29 | Pass |
| 11.999 | 43.70 | 42.17 | 40.97 | -0.34 | 43.36 | 41.83 | 40.63 | 60.00 | 18.17 | 50.00 | 9.37 | Pass |
| 23.949 | 33.30 | 15.72 | 9.56 | -0.44 | 32.86 | 15.28 | 9.12 | 60.00 | 44.72 | 50.00 | 40.88 | Pass |

Corrected Emission Level (dBuV) = Uncorrected Reading (dBuV) + Correction Factor (dB)
 Margin (dB) = Limit (dBuV) - Corrected Emission Level (dBuV)

Calculations

CF = Correction Factor
 Emission Level = Measured Level + correction factor
 Margin = Limit - Emission Level

| | | | | |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

J.10. PASS/FAIL

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

The RF voltage measured in reference to ground on each of the power line conductors does not exceed the limits as outline in FCC 15.207.

The emission measured on Line 1 with the least margin to the limit measured with a QP detector at 0.159 MHz and a margin of 11.51 dB. The emission measured on Line 2 with the least margin to the limit was measured with a QP detector at 0.156 MHz with a margin of 11.66 dB.


J.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.




Russell Pipe
Senior Compliance Technologist
Celltech Labs Inc.

16Nov05
Date

| | | | | | | |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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|-----------------------------------------------------------------------------------|--------------------------------|-----------------------|------------------------------------|------------------|
|  | Test Report Serial No.: | 040505KBC-F631-E15EW | Report Issue No.: | E631EW-042006-R0 |
| | Test Date(s): | 03Oct05 - 18Nov05 | Report Issue Date: | April 20, 2006 |
| | Test Rule Part(s): | FCC 47 CFR §15.407 | Industry Canada RSS-210 Issue 6 | |
| | Lab Registration(s): | FCC Lab Reg. # 714830 | Industry Canada Lab File # IC 3874 | |

END OF DOCUMENT

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|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------|---------------|---------------------------------------------------------------------------------------|
| Company: | Itronix Corporation | FCC ID: | KBCIX325-CWLBT | IC ID: | 1943A-IX325ab |  |
| Model(s): | IX325-CWLBT | IX325 Series Rugged Tablet PC with Cisco AIR-CB21AG-A-K9 802.11abg WLAN | | | | |
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