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|  | Date(s) of Evaluation November 02, 06, 2007 | Test Report Serial No. 102407KBC-T866-S15WB | Test Report Revision No. Rev. 1.0 (Initial Release) |  |
| | Test Report Issue Date March 20, 2008 | Description of Test(s) Specific Absorption Rate | RF Exposure Category General Population | |

SAR TEST REPORT (FCC/IC)

| RF EXPOSURE EVALUATION | SPECIFIC ABSORPTION RATE |
|------------------------------|--|
| APPLICANT | GENERAL DYNAMICS ITRONIX CORPORATION |
| DEVICE UNDER TEST (DUT) | 802.11a/b/g/n WLAN Mini-PCI Express Card |
| DEVICE MODEL(S) | IX-4965AGN |
| DEVICE IDENTIFIER(S) | FCC ID: KBCIX-4965AGN IC: 1943A-4965AGN |
| HOST PC TYPE | Rugged Tablet PC (General Dynamics Itronix Corp. Model: IX350) |
| CO-LOCATED TRANSMITTER(S) | Class 1 Bluetooth (v2.0) - Model: IX-GUBTC41MTH |
| APPLICATION TYPE | Class II Permissive Change (Add IX350 Host PC and Bluetooth) |
| STANDARD(S) APPLIED | FCC 47 CFR §2.1093 Health Canada Safety Code 6 |
| PROCEDURE(S) APPLIED | FCC OET Bulletin 65, Supplement C (01-01) FCC OET SAR Measurement Procedures for 802.11a/b/g FCC OET SAR Measurement Requirements for 3 - 6 GHz Industry Canada RSS-102 Issue 2 IEEE 1528-2003 |
| FCC DEVICE CLASSIFICATION(S) | Digital Transmission System (DTS) - §15C Unlicensed National Information Infrastructure TX (NII) - §15E |
| IC DEVICE CLASSIFICATION | Low Power License-Exempt Radiocommunication Device (RSS-210) |
| RF EXPOSURE CATEGORY | General Population / Uncontrolled |
| RF EXPOSURE EVALUATION(S) | Body and Lap-held |
| DATE(S) OF EVALUATION(S) | November 02 & 06, 2007 |
| TEST REPORT SERIAL NO. | 102407KBC-T866-S15WB |
| TEST REPORT REVISION NO. | Revision 1.0 Initial Release March 20, 2008 |
| TEST REPORT SIGNATORIES | Testing Performed By: Sean Johnston, Celltech Labs Inc. Test Report Prepared By: Jonathan Hughes, Celltech Labs Inc. |
| TEST LAB AND LOCATION | Celltech Compliance Testing and Engineering Lab 21-364 Lougheed Road, Kelowna, B.C. V1X 7R8 Canada |
| TEST LAB CONTACT INFO. | Tel.: 250-765-7650 Fax: 250-765-7645 info@celltechlabs.com www.celltechlabs.com |
| TEST LAB ACCREDITATION(S) |  Certificate No. 2470.01 |

| | | | | | |
|-------------------------|--|-----------|--|-----|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|  | Date(s) of Evaluation November 02, 06, 2007 | Test Report Serial No. 102407KBC-T866-S15WB | Test Report Revision No. Rev. 1.0 (Initial Release) |  |
| | Test Report Issue Date March 20, 2008 | Description of Test(s) Specific Absorption Rate | RF Exposure Category General Population | |

DECLARATION OF COMPLIANCE - SAR RF EXPOSURE EVALUATION

| | | | | | | | | | |
|-----------------------------|-----------|--|--|---------------------------------------|---|---|---|--|---------------------|
| Test Lab Information | Name | CELLTECH LABS INC. | | | Address | 21-364 Loughheed Road, Kelowna, B.C. V1X 7R8 Canada | | | |
| Company Information | Name | GENERAL DYNAMICS ITRONIX CORP. | | | Address | 12825 E. Mirabeau Parkway, Spokane Valley, WA 92216 USA | | | |
| Standard(s) Applied | FCC | 47 CFR §2.1093 | | | IC | Health Canada Safety Code 6 | | | |
| Procedure(s) Applied | FCC | OET Bulletin 65, Supplement C (01-01) | | IC | RSS-102 Issue 2 | IEEE | 1528-2003 | | |
| | FCC | OET SAR Measurement Procedures for 802.11a/b/g | | | OET SAR Measurement Requirements for 3 - 6 GHz | | | | |
| Device Classification(s) | FCC | Digital Transmission System (DTS) - §15C (ISM, UNII-3 Bands) | | | | | | | |
| | FCC | Unlicensed National Information Infrastructure TX (NII) - §15E (UNII-1, UNII-2 Bands) | | | | | | | |
| | IC | Low Power License-Exempt Radiocommunication Device (RSS-210) | | | | | | | |
| Application Type | FCC/IC | Class II Permissive Change (Add IX350 Host PC and Co-located IX-GUBTC41MTH Bluetooth) | | | | | | | |
| Device Identifier(s) | FCC ID: | KBCIX-4965AGN | | | IC: | 1943A-4965AGN | | | |
| Device Under Test (DUT) | Module | 802.11a/b/g/n WLAN Mini-PCI Express Card | | | Model | IX-4965AGN | | | |
| Device Configuration(s) | Host PC | Rugged Tablet PC | | | Model | IX350 | | | |
| | Co-Tx | Class 1 Bluetooth | Model | IX-GUBTC41MTH | FCC ID: | KBCIX-GUBTC41MTH | IC: | 1943A-GUBTC41MTH | |
| Device Manufacturer(s) | WLAN | Intel Corporation | | | Serial No. | MAC: 0013E847EDE3 (Production Sample) | | | |
| | Bluetooth | Billionton Systems, Inc. | | | Serial No. | 07052200019 (Production Sample) | | | |
| | Host PC | General Dynamics Itronix Corporation | | | Serial No. | SY7200000659 (Identical Prototype) | | | |
| LCD Display Orientation(s) | Host PC | 0 Degrees Landscape | | -90 Degrees Portrait | | 90 Degrees Portrait | | | |
| Device Position(s) Tested | Host PC | Bottom Side (Touch) - Lap-held | | | | | | | |
| | | WLAN MAIN Diversity Antenna Adjacent Edge (Touch) - Body (-90 Degrees Portrait) | | | | | | | |
| Mode(s) of Operation | Host PC | WLAN AUX Diversity Antenna Adjacent Edge (Touch) - Body (90 Degrees Portrait) | | | | | | | |
| | | 802.11b/n | Direct Sequence Spread Spectrum (DSSS) | | | 802.11a/g/n | Orthogonal Frequency Division Multiplexing (OFDM) | | |
| WLAN Data Rates | Bluetooth | Frequency Hopping Spread Spectrum (FHSS) | | | GFSK (1 Mbps), π/4-DQPSK (2 Mbps), 8DPSK (3 Mbps) | | | | |
| | 802.11a | 6, 9, 12, 24, 36, 48, 54 Mbps | | 802.11b | 1, 2, 5.5, 11 Mbps | | 802.11g | 6, 9, 12, 24, 36, 48, 54 Mbps | |
| Transmit Frequency Range(s) | 802.11n | 7.2/14.4/15/21.7/28.9/30/43.3/45/57.8/60/65/72.2/86.667/90/115.5/117/120/130/135/144/150/180/240/243/270/300 | | | | | | | |
| | 802.11a | 5180-5240 MHz (UNII-1) | | 5260-5320 MHz (UNII-2) | | 5745-5825 MHz (UNII-3) | | 802.11b | 2412-2462 MHz (ISM) |
| Max. RF Output Power Tested | Bluetooth | 2402 - 2480 MHz | | Test Frequency | 2441 MHz | | Test Mode | GFSK (1 Mbps) - DH5 Packet Rate | |
| | | Transmit Mode | Frequency | Channel | Data Rate | Chain A (AUX) | Chain B (MAIN) | Measurement | |
| Max. Duty Cycle(s) Tested | 802.11b | 802.11b (ISM) | | 2442 MHz | 7 | 1 Mbps | 16.1 dBm | 16.1 dBm | Conducted (Av.) |
| | | 802.11a (UNII-1) | | 5180 MHz | 36 | 6 Mbps | 15.8 dBm | 16.1 dBm | Conducted (Av.) |
| | | 802.11a (UNII-2) | | 5260 MHz | 52 | 6 Mbps | 17.5 dBm | 17.5 dBm | Conducted (Av.) |
| | | 802.11a (UNII-3) | | 5785 MHz | 157 | 6 Mbps | 17.6 dBm | 17.5 dBm | Conducted (Av.) |
| | | Bluetooth | | 2402 MHz | 0 | 1 Mbps | 13.0 dBm (20 mW) | | Conducted (Av.) |
| Max. Duty Cycle(s) Tested | 802.11b | 98% | Crest Factor: 1:1.02 | 802.11a | 91% | Crest Factor: 1:1.1 | (Source-Based Time-Averaged) | | |
| Antenna Type(s) Tested | WLAN | Transmit Diversity | MAIN | Internal - Top Left Side of Tablet PC | | | AUX | Internal - Top Right Side of Tablet PC | |
| | | Supports MIMO operation in 802.11n mode | | | Bluetooth | Internal | | Left Side Edge of Tablet PC | |
| Power Source(s) Tested | Host PC | Internal Lithium-ion Battery | | | 11.1V | 3900mAh | | Model: T8M-E | |
| Max. SAR Level(s) Evaluated | Body | 802.11a | 0.050 W/kg | | Peak | Bottom Side | FCC/IC Spatial Peak SAR Limit | 1.6 W/kg | 1g average |
| | | 802.11b | 0.024 W/kg | | 1g average | Adjacent Edge | | Uncontrolled Exposure | |

Celltech Labs Inc. declares under its sole responsibility that this wireless portable device is compliant with the Specific Absorption Rate (SAR) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada's Safety Code 6 for the General Population / Uncontrolled Exposure environment. The device was tested in accordance with the measurement standards and procedures specified in FCC OET Bulletin 65, Supplement C (Edition 01-01), FCC OET SAR Measurement Procedures for 802.11a/b/g Transmitters, FCC OET SAR Measurement Requirements for 3 - 6 GHz, Industry Canada RSS-102 Issue 2 and IEEE 1528-2003. All measurements were performed in accordance with the SAR system manufacturer recommendations.


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

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

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Test Report Approved By  Sean Johnston Celltech Labs Inc.



| | | | | | | |
|-------------------------|--|-----------|--|---------------|-----|---|
| Company: | General Dynamics Itronix Corporation | | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | | |  |
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| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

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| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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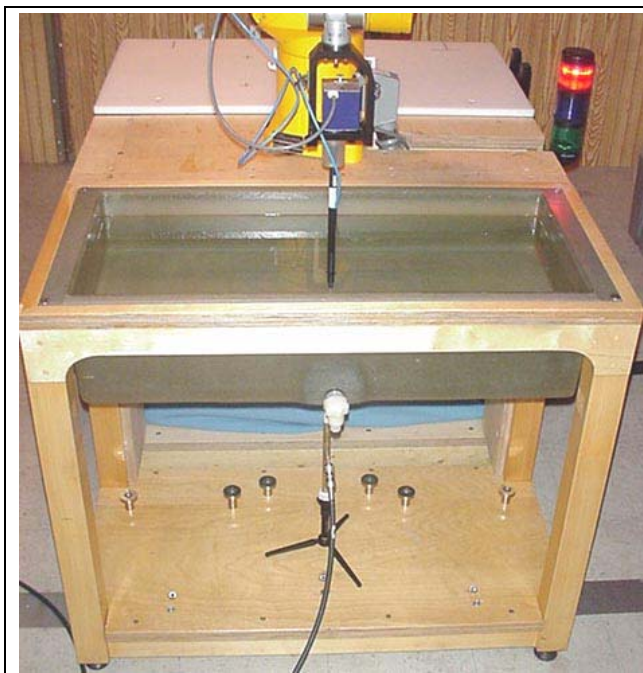
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

1.0 INTRODUCTION

This measurement report demonstrates compliance of the General Dynamics Itronix Corporation Model: IX350 Rugged Tablet PC, incorporating the IX-4965AGN WLAN Mini-PCI Express Card and co-located IX-GUBTC41MTH Class 1 Bluetooth, with the SAR (Specific Absorption Rate) RF exposure requirements of FCC 47 CFR §2.1093 (see reference [1]) and Health Canada's Safety Code 6 (see reference [2]) for the General Population / Uncontrolled Exposure environment. The test procedures described in FCC OET Bulletin 65, Supplement C, Edition 01-01 (see reference [3]), FCC OET SAR Measurement Procedures for 802.11a/b/g Transmitters (see reference [6]), FCC OET SAR Measurement Requirements for 3 - 6 GHz (see reference [7]), IC RSS-102 Issue 2 (see reference [4]) and IEEE 1528-2003 (see reference [5]) were employed. A description of the product and operating configuration, detailed summary of the test results, methodology and procedures used in the evaluation, equipment used, and the various provisions of the rules are included within this test report.

2.0 SAR MEASUREMENT SYSTEM


Celltech Labs Inc. SAR measurement facility utilizes the Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY4 measurement system is comprised of the measurement server, robot controller, computer, near-field probe, probe alignment sensor, specific anthropomorphic mannequin (SAM) phantom, and various planar phantoms for brain and/or body SAR evaluations. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The Staubli robot is connected to the cell controller to allow software anipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the DASY4 measurement server. The DAE4 utilizes a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter and a command decoder and control logic unit. Transmission to the DASY4 measurement server is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe-mounting device includes two different sensor systems for frontal and sidewise probe contacts. The sensor systems are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.



DASY4 SAR Measurement System with Planar Phantom



DASY4 Measurement Server

| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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3.0 CONDUCTED POWER MEASUREMENT SUMMARY



| 802.11b 1Mbps | | | | |
|-------------------------|-----------|-----------------------------|-----------------------------|-----------------------|
| Duty Cycle 98% | | | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | |
| 1 | 2412 | 16.0 | 16.1 | |
| 7 | 2442 | 16.1 | 16.1 | |
| 11 | 2462 | 16.3 | 16.3 | |
| 802.11g 6Mbps | | | | |
| Duty Cycle 91% | | | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | |
| 1 | 2412 | 16.0 | 16.0 | |
| 7 | 2442 | 16.0 | 16.0 | |
| 11 | 2462 | 16.0 | 16.0 | |
| 802.11n HT0 | | | | |
| Duty Cycle 91% | | | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | |
| 1 | 2412 | 16.0 | 16.0 | |
| 7 | 2442 | 16.0 | 16.0 | |
| 11 | 2462 | 16.0 | 16.0 | |
| 802.11n MIMO HT8 | | | | |
| Duty Cycle 71% | | | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | Aggregate Total (dBm) |
| 1 | 2412 | 14.7 | 14.7 | 17.7 |
| 7 | 2442 | 14.5 | 14.7 | 17.6 |
| 11 | 2462 | 14.1 | 14.8 | 17.5 |

CONDUCTED POWER MEASUREMENT SUMMARY (Cont.)

| 802.11a | | 6Mbps | | |
|-------------------------|-----------|-----------------------------|-----------------------------|-----------------------|
| Duty Cycle | | 91% | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | |
| Low | 5180 | 15.8 | 16.1 | |
| Mid | 5260 | 17.5 | 17.5 | |
| High | 5320 | 16.5 | 16.5 | |
| 802.11n 20M | | HT0 | | |
| Duty Cycle | | 91% | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | |
| Low | 5180 | 15.6 | 15.8 | |
| Mid | 5260 | 17.7 | 17.7 | |
| High | 5320 | 16.4 | 16.6 | |
| 802.11n 40M | | HT0 | | |
| Duty Cycle | | 83% | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | |
| Low | 5190 | 15.6 | 15.7 | |
| Mid | 5270 | 17.6 | 17.7 | |
| High | 5310 | 15.6 | 15.6 | |
| 802.11n MIMO 20M | | HT8 | | |
| Duty Cycle | | 71% | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | Aggregate Total (dBm) |
| Low | 5180 | 13.7 | 13.3 | 16.5 |
| Mid | 5260 | 14.5 | 14.6 | 17.6 |
| High | 5320 | 14.2 | 14.4 | 17.3 |
| 802.11n MIMO 40M | | HT8 | | |
| Duty Cycle | | 57% | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | Aggregate Total (dBm) |
| Low | 5190 | 13.7 | 13.3 | 16.5 |
| Mid | 5270 | 14.5 | 14.6 | 17.6 |
| High | 5310 | 14.2 | 14.4 | 17.3 |


CONDUCTED POWER MEASUREMENT SUMMARY (Cont.)

| 802.11a | | 6Mbps | | |
|-------------------------|-----------|-----------------------------|-----------------------------|-----------------------|
| Duty Cycle | | 91% | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | |
| 149 | 5745 | 17.7 | 17.4 | |
| 157 | 5785 | 17.6 | 17.5 | |
| 165 | 5825 | 17.6 | 17.5 | |
| 802.11n 20M | | HT0 | | |
| Duty Cycle | | 91% | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | |
| 149 | 5745 | 17.4 | 17.5 | |
| 157 | 5785 | 17.5 | 17.5 | |
| 165 | 5825 | 17.6 | 17.7 | |
| 802.11n 40M | | HT0 | | |
| Duty Cycle | | 83% | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | |
| | 5755 | 17.6 | 17.5 | |
| | 5795 | 17.6 | 17.5 | |
| 802.11n MIMO 20M | | HT8 | | |
| Duty Cycle | | 71% | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | Aggregate Total (dBm) |
| 149 | 5745 | 14.3 | 14.4 | 17.4 |
| 157 | 5785 | 14.5 | 14.5 | 17.5 |
| 165 | 5825 | 14.5 | 14.6 | 17.6 |
| 802.11n MIMO 40M | | HT8 | | |
| Duty Cycle | | 57% | | |
| Channel | Frequency | Average Power Chain A (dBm) | Average Power Chain B (dBm) | Aggregate Total (dBm) |
| | 5755 | 14.5 | 14.6 | 17.6 |
| | 5795 | 14.4 | 14.5 | 17.5 |

| | | | | |
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|  Celltech Testing and Engineering Services Ltd. | Date(s) of Evaluation November 02, 06, 2007 | Test Report Serial No. 102407KBC-T866-S15WB | Test Report Revision No. Rev. 1.0 (Initial Release) |  IAC-MRA ACCREDITED Certificate No. 2470.01 |
| | Test Report Issue Date March 20, 2008 | Description of Test(s) Specific Absorption Rate | RF Exposure Category General Population | |

4.0 SAR MEASUREMENT SUMMARY

| BODY SAR MEASUREMENT RESULTS | | | | | | | | | | | | | |
|----------------------------------|---|-----------------------------|-------|---------------------|-----------|-------------------|--------------|------------------------------------|------------------------------------|-------------------------|-----------------------|-----------------------------------|-------------------|
| Transmit Mode | Band | Test Mode | Freq. | Ch. | Data Rate | Bluetooth Co-Tx | WLAN Antenna | Host PC Position to Planar Phantom | Antenna Distance to Planar Phantom | Cond. Power Before Test | SAR Drift During Test | Measured SAR | |
| | | | MHz | | Mbps | | | | cm | dBm | dB | W/kg | |
| 802.11b | ISM | DSSS | 2442 | 7 | 1 | Off | AUX (A) | Bottom Touch | 4.2 | 16.1 | -- ⁶ | 0.007 | Peak ⁴ |
| 802.11b | ISM | DSSS | 2442 | 7 | 1 | Off | MAIN (B) | Bottom Touch | 4.2 | 16.1 | -- ⁶ | 0.047 | Peak ⁴ |
| 802.11b | ISM | DSSS | 2442 | 7 | 1 | Off | AUX (A) | Adjacent Edge | 6.5 | 16.1 | 0.100 ⁵ | 0.014 | 1g |
| 802.11b | ISM | DSSS | 2442 | 7 | 1 | Off | MAIN (B) | Adjacent Edge | 4.0 | 16.1 | 0.205 ⁵ | 0.024 | 1g |
| 802.11a | UNII-1 | OFDM | 5180 | 36 | 6 | Off | AUX (A) | Bottom Touch | 4.2 | 15.8 | -- ⁶ | 0.050 | Peak ⁴ |
| 802.11a | UNII-1 | OFDM | 5180 | 36 | 6 | Off | MAIN (B) | Bottom Touch | 4.2 | 16.1 | -- ⁶ | 0.029 | Peak ⁴ |
| 802.11a | UNII-1 | OFDM | 5180 | 36 | 6 | Off | AUX (A) | Adjacent Edge | 6.5 | 15.8 | -- ⁶ | 0.027 | Peak ⁴ |
| 802.11a | UNII-1 | OFDM | 5180 | 36 | 6 | Off | MAIN (B) | Adjacent Edge | 4.0 | 16.1 | -- ⁶ | 0.048 | Peak ⁴ |
| 802.11a | UNII-2 | OFDM | 5260 | 52 | 6 | Off | AUX (A) | Bottom Touch | 4.2 | 17.5 | -- ⁶ | 0.047 | Peak ⁴ |
| 802.11a | UNII-2 | OFDM | 5260 | 52 | 6 | Off | MAIN (B) | Bottom Touch | 4.2 | 17.5 | -- ⁶ | 0.047 | Peak ⁴ |
| 802.11a | UNII-2 | OFDM | 5260 | 52 | 6 | Off | AUX (A) | Adjacent Edge | 6.5 | 17.5 | -- ⁶ | 0.038 | Peak ⁴ |
| 802.11a | UNII-2 | OFDM | 5260 | 52 | 6 | Off | MAIN (B) | Adjacent Edge | 4.0 | 17.5 | -- ⁶ | 0.019 | Peak ⁴ |
| 802.11a | UNII-3 | OFDM | 5785 | 157 | 6 | Off | AUX (A) | Bottom Touch | 4.2 | 17.6 | -- ⁶ | 0.018 | Peak ⁴ |
| 802.11a | UNII-3 | OFDM | 5785 | 157 | 6 | Off | MAIN (B) | Bottom Touch | 4.2 | 17.5 | -- ⁶ | 0.025 | Peak ⁴ |
| 802.11a | UNII-3 | OFDM | 5785 | 157 | 6 | Off | AUX (A) | Adjacent Edge | 6.5 | 17.6 | -- ⁶ | 0.017 | Peak ⁴ |
| 802.11a | UNII-3 | OFDM | 5785 | 157 | 6 | Off | MAIN (B) | Adjacent Edge | 4.0 | 17.5 | -- ⁶ | 0.030 | Peak ⁴ |
| SAR LIMIT(S) | | | | | | BODY | | | SPATIAL PEAK | | | RF EXPOSURE CATEGORY | |
| FCC 47 CFR 2.1093 | | Health Canada Safety Code 6 | | | | 1.6 W/kg | | | averaged over 1 gram | | | General Population / Uncontrolled | |
| Test Date(s) | | November 06, 2007 | | | | November 02, 2007 | | | November 02, 2007 | | | November 02, 2007 | |
| Fluid Dielectric Parameters | | 2450 MHz Body | | | | 5180 MHz Body | | | 5260 MHz Body | | | 5800 MHz Body | |
| | | IEEE Target | | Meas. | | Dev. | | IEEE Target | | Meas. | | Dev. | |
| Dielectric Constant ϵ_r | | 52.7 | | ±5% | | 50.6 | | -4.0% | | 49.0 | | ±10% | |
| Conductivity σ (mho/m) | | 1.95 | | ±5% | | 2.01 | | +3.1% | | 5.28 | | ±5% | |
| Test Date | | ρ (Kg/m ³) | | Ambient Temperature | | Fluid Temperature | | Fluid Depth | | Relative Humidity | | Atmospheric Pressure | |
| November 02, 2007 | | 1000 | | 23.3°C | | 22.0°C | | ≥ 15 cm | | 33% | | 101.0 kPa | |
| November 06, 2007 | | 1000 | | 22.2°C | | 20.2°C | | ≥ 15 cm | | 31% | | 101.1 kPa | |
| Notes | | | | | | | | | | | | | |
| 1. | The measurement results were obtained with the DUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A. | | | | | | | | | | | | |
| 2. | The measured SAR levels were ≥ 3 dB below the SAR limit; therefore single channel data only is reported (per FCC OET SAR Measurement Procedures for 802.11a/b/g Transmitters - see reference [6]). | | | | | | | | | | | | |
| 3. | Higher data rates (and 802.11g mode) were not evaluated based on the average output power levels were not 0.25 dB > the output power level measured at the lowest data rate in 802.11b mode (per FCC OET SAR Measurement Procedures for 802.11a/b/g Transmitters - see reference [6]). | | | | | | | | | | | | |
| 4. | The SAR levels measured and reported are the Peak SAR levels measured from the area scan. The 1g-averaged SAR is not measured when the peak SAR value from the area scan evaluation is less than 1% of the 1g average limit. The mathematical formula used to extrapolate the SAR value at the surface from the zoom scan SAR values measured at 5 mm steps leading away from the surface assumes a curving slope (i.e. the SAR values gradually decrease as the probe moves away from the surface). When the peak SAR of a device is so low that the RF noise level is competing with the SAR level, the zoom scan measurements leading away from the surface are no longer a curving slope and the extrapolation formula cannot accurately estimate the 1g average SAR. Therefore the peak value from the area scan is reported in place of the 1g averaged SAR value whenever the peak values are less than 1% of the average limit. This avoids gross uncertainties in the 1g average SAR calculation while maintaining a conservative estimation of the SAR level. | | | | | | | | | | | | |
| 5. | The power drift of the DUT during the SAR evaluations was measured by the DASY4 system. The power drift was within 5% of the measured start power. | | | | | | | | | | | | |
| 6. | The power drift of the DUT during the SAR evaluations was measured at the reference point of the phantom with low SAR. The resulting drift values were inaccurate due to the SAR value at the reference point was close to the measurement noise floor and are therefore not reported. | | | | | | | | | | | | |

| | | | | | |
|-------------------------|--|-----------|--|--------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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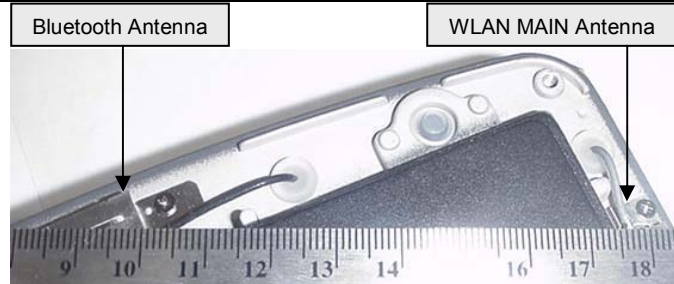
SAR MEASUREMENT SUMMARY (Cont.)

MEASURED SAR LEVELS AND DISTANCES OF CO-TRANSMITTING ANTENNAS

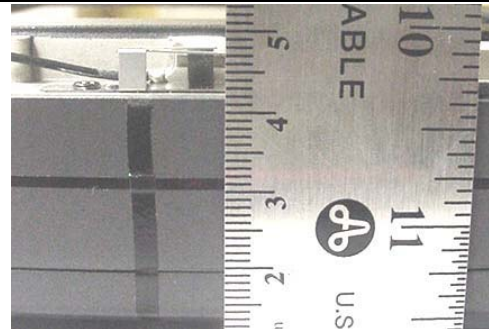
| DUT TEST POSITION | BLUETOOTH & WLAN MAIN ANTENNA SPACING cm | DISTANCE FROM ANTENNA TO PLANAR PHANTOM | | BLUETOOTH TRANSMITTER | | WLAN TRANSMITTER MAIN ANT. (CHAIN B) | |
|---|---|---|-----------|--|--------|--------------------------------------|--------|
| | | BLUETOOTH | WLAN MAIN | Frequency | SAR | Frequency | SAR |
| | | cm | cm | MHz | W/kg | MHz | W/kg |
| Bottom Side of Tablet PC | 7.5 | 4.2 | 4.2 | 2402 | 0.053 | 2442 | 0.047 |
| | | | | | Peak | | Peak |
| Bottom Side of Tablet PC | 7.5 | 4.2 | 4.2 | 2402 | 0.053 | 5260 | 0.047 |
| | | | | | Peak | | Peak |
| Bluetooth Antenna Side - Tablet PC Edge-on (WLAN MAIN Adjacent) | 7.5 | 0.5 | 4.0 | 2480 | 0.410 | 2442 | 0.024 |
| Bluetooth Antenna Side - Tablet PC Edge-on (WLAN MAIN Adjacent) | 7.5 | 0.5 | 4.0 | 2480 | 1 gram | 5180 | 1 gram |
| | | | | | 1 gram | | Peak |
| Maximum SAR Summation of Co-transmitting Antennas: | | | | 0.434 W/kg (averaged over 1 gram) | | | |

MEASURED RF CONDUCTED OUTPUT POWER LEVELS OF CO-TRANSMITTING ANTENNAS

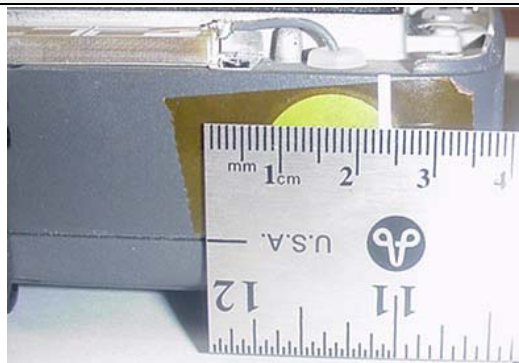
| BLUETOOTH (Average Power) | | | | | WLAN (Average Power) | | | |
|--|------|--------|-------|-----------------|----------------------|---------|--------|----------|
| Frequency (MHz) | Mode | | Level | Frequency (MHz) | Mode | | Level | |
| 2402 | GFSK | 1 Mbps | DH5 | 13.0 dBm | 2442 | 802.11b | 1 Mbps | 16.1 dBm |
| 2480 | GFSK | 1 Mbps | DH5 | 12.9 dBm | 5180 | 802.11a | 6 Mbps | 16.1 dBm |
| Note: The WLAN AUX (Chain A) Antenna is 17 cm distance from the Bluetooth Antenna and is not considered in this co-tx analysis | | | | | 5260 | 802.11a | 6 Mbps | 17.5 dBm |



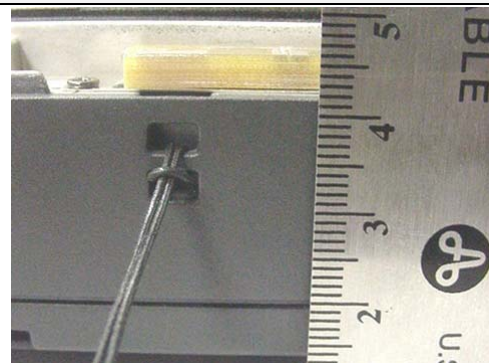
7.5 cm Spacing between Bluetooth Antenna and WLAN MAIN Antenna



4.2 cm Distance from Bluetooth Antenna to Bottom of PC



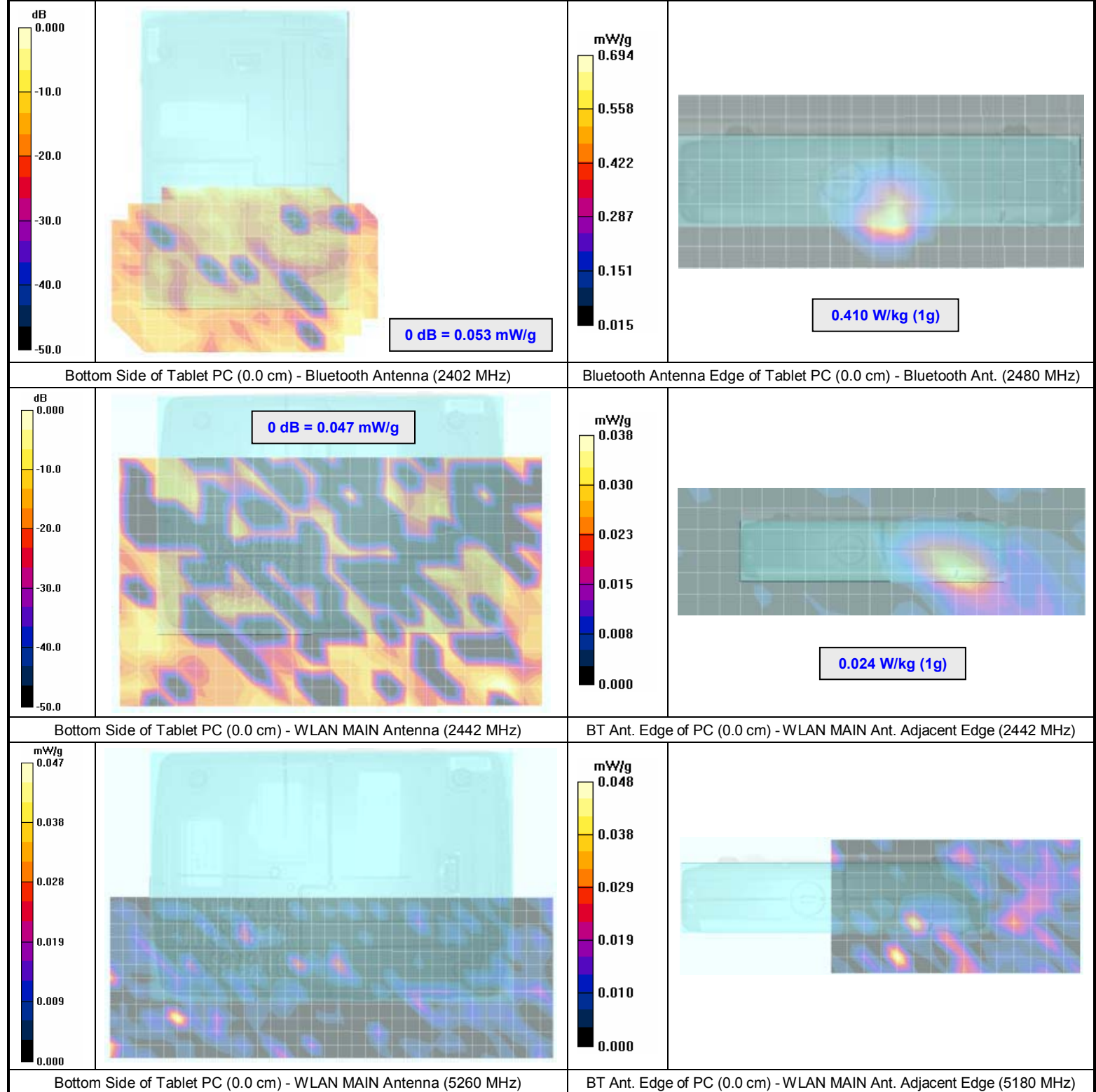
4 cm Distance from WLAN MAIN Ant. to Adjacent Edge (BT Ant. Edge)





4.2 cm Distance from WLAN MAIN Antenna to Bottom of PC

SAR MEASUREMENT SUMMARY (Cont.)

MEASURED SAR DISTRIBUTION OF CO-TRANSMITTING ANTENNAS



| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |


5.0 DETAILS OF SAR EVALUATION



The General Dynamics Itronix Corporation Model: IX350 Tablet PC incorporating the IX-4965AGN WLAN Mini-PCI Express Card and co-located IX-GUBTC41MTH Class 1 Bluetooth was compliant for localized Specific Absorption Rate (General Population) based on the test provisions and conditions described below. The test setup photographs are shown in Appendix D.

- The DUT was evaluated for body SAR (lap-held) with the bottom side of the Tablet PC touching the outer surface of the planar phantom.
- The DUT was evaluated for body SAR with the WLAN MAIN antenna (Chain B) adjacent edge of the Tablet PC (-90° Portrait LCD user display orientation) touching the outer surface of the planar phantom, based on the WLAN MAIN antenna is < 10 cm from the adjacent edge (4.0 cm distance). The WLAN MAIN antenna (Chain B) adjacent edge of the Tablet PC is also the co-located Class 1 Bluetooth antenna edge of the Tablet PC. The co-located Class 1 Bluetooth was also evaluated for SAR in this configuration and the measurement results are reported herein to show the SAR distribution as a co-transmitting antenna in conjunction with the WLAN MAIN antenna (Chain B) adjacent edge SAR distribution (see SAR data summary of co-transmitting antennas on pages 6-7).
- The DUT was evaluated for body SAR with the WLAN AUX antenna (Chain A) adjacent edge of the Tablet PC (90° Portrait LCD user display orientation) touching the outer surface of the planar phantom, based on the WLAN AUX antenna is < 10 cm from the adjacent edge (6.5 cm distance).
- The MAIN and AUX switched diversity antennas were evaluated individually (one at a time with each other disabled).
- The WLAN was tested using proprietary CRTU test software provided by Intel to continuously transmit on a specific test channel/frequency and antenna and to manually set the appropriate power levels and associated duty cycle prescribed by Intel. The WLAN was tested with a modulated DSSS signal in 802.11b mode and a modulated OFDM signal in 802.11a mode.
- The Bluetooth was tested using the proprietary Blue Suite test software and CSR Blue test application provided by the applicant. The test software enabled the Bluetooth in modulated continuous transmit operation on a fixed frequency (frequency hopping disabled). The maximum power level settings were prescribed by the manufacturer.
- The average conducted output power levels of the WLAN and Bluetooth were measured prior to the SAR evaluations using a universal power meter according to the procedures described in FCC 47 CFR §2.1046 and IC RSS-Gen.
- The internal battery of the Tablet PC was fully charged prior to the SAR evaluations.

6.0 EVALUATION PROCEDURES

- (i) The evaluation was performed in the applicable area of the phantom depending on the type of device being tested. For devices held to the ear during normal operation, both the left and right ear positions were evaluated using the SAM phantom.
(ii) For body-worn and face-held devices a planar phantom was used.
- The SAR was determined by a pre-defined procedure within the DASY4 software. Upon completion of a reference and optical surface check, the exposed region of the phantom was scanned near the inner surface with a grid spacing of 15mm x 15mm.
An area scan was determined as follows:
 - Based on the defined area scan grid, a more detailed grid is created to increase the points by a factor of 10. The interpolation function then evaluates all field values between corresponding measurement points.
 - A linear search is applied to find all the candidate maxima. Subsequently, all maxima are removed that are >2 dB from the global maximum. The remaining maxima are then used to position the cube scans.
A 1g and 10g spatial peak SAR was determined as follows:
 - Extrapolation is used to determine the values between the dipole center of the probe and the surface of the phantom. This data cannot be measured because the center of the dipole sensors is 1.0 mm away from the probe tip and the distance between the probe and the boundary must be larger than 25% of the probe diameter. The probe diameter is 2.4 mm. In the DASY4 software, the distance between the sensor center and phantom surface is set to 2.0 mm. This provides a distance of 1.0 mm between the probe tip and the surface. The extrapolation of the values between the dipole center and the surface of the phantom was based on trivariate quadratics computed from the previously calculated 3D interpolated points nearest the phantom surface.
 - Interpolated data is used to calculate the average SAR over 1g and 10g cubes by spatially discretizing the entire measured cube. The volume used to determine the averaged SAR is a 1mm grid (42875 interpolated points).
 - For frequencies < 3 GHz a zoom scan volume of 24 mm x 24 mm x 24 mm (7x7x7 points) centered at the peak SAR location determined from the area scan was used and a zoom scan resolution of 5 mm x 5 mm x 5 mm was used.
 - For frequencies > 3 GHz a zoom scan volume of 24 mm x 24 mm x 20 mm (7x7x9 points) centered at the peak SAR location determined from the area scan was used and a zoom scan resolution of 4 mm x 4 mm x 2.5 mm was used.

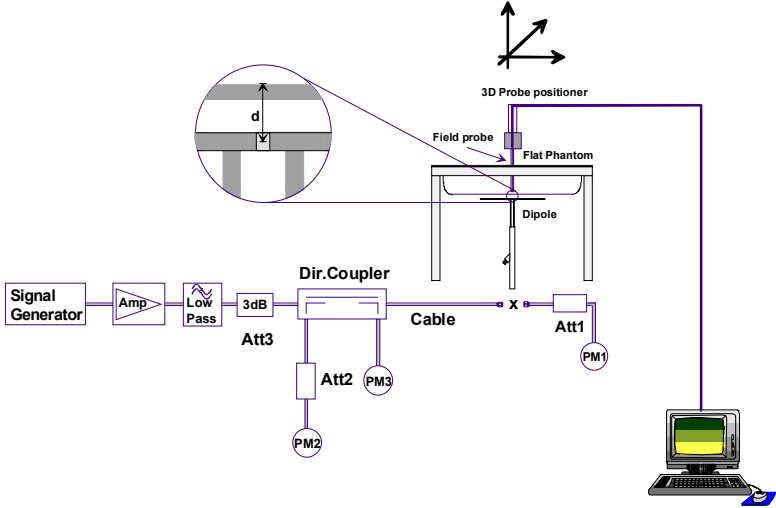


| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

7.0 SYSTEM PERFORMANCE CHECK

Prior to the SAR evaluations, system checks were performed using a planar phantom with 2450 MHz and 5000 MHz validation dipoles (see Appendix B for system performance check test plots). The dielectric parameters of the simulated tissue mixtures were measured prior to the system performance checks using a Dielectric Probe Kit and a Network Analyzer (see Appendix C). A forward power of 250 mW was applied to the dipole and the system was verified to a tolerance of $\pm 10\%$ from the system validation target SAR values (see Appendix F for system validation measurement procedures).

| SYSTEM PERFORMANCE CHECK EVALUATION RESULTS | | | | | | | | | | | | | | | | | |
|---|--------------|---|------------------|-------|-----------------|------------------|-------|----------------------------------|------------------|-------|-------------------------------|------------------|-------|-----------------|------------------|------------|---------------------|
| Test Date | Freq. (MHz) | SAR 10g (W/kg) | | | PEAK SAR (W/kg) | | | Dielectric Constant ϵ_r | | | Conductivity σ (mho/m) | | | Amb. Temp. (°C) | Fluid Temp. (°C) | Humid. (%) | Barom. Press. (kPa) |
| | | Body | Sys. Val. Target | Meas. | Dev. | Sys. Val. Target | Meas. | Dev. | Sys. Val. Target | Meas. | Dev. | Sys. Val. Target | Meas. | | | | |
| Nov. 6 | 2450 | 13.4 $\pm 10\%$ | 14.0 | +4.5% | - | - | - | 50.1 $\pm 5\%$ | 50.6 | +1.0% | 1.99 $\pm 5\%$ | 2.01 | +1.0% | 22.2 | 20.2 | 31 | 101.1 |
| Nov. 2 | 5200 | 18.2 $\pm 10\%$ | 17.8 | -2.2% | 72.7 $\pm 15\%$ | 74.2 | +2.1% | 44.6 $\pm 10\%$ | 45.1 | +1.2% | 5.52 $\pm 5\%$ | 5.28 | -4.3% | 23.3 | 22.0 | 33 | 101.0 |
| Nov. 2 | 5800 | 19.1 $\pm 10\%$ | 19.3 | +1.1% | 87.3 $\pm 15\%$ | 87.0 | -0.3% | 44.7 $\pm 10\%$ | 45.5 | +1.8% | 6.22 $\pm 5\%$ | 6.20 | -0.3% | 23.3 | 22.0 | 33 | 101.0 |
| Fluid Depth | ≥ 15 cm | Notes 1. The target SAR values are referenced from the System Validation procedures performed by Celltech Labs Inc. (see Appendix F). 2. The target dielectric parameters are referenced from the System Validation procedures performed by Celltech Labs Inc. (see Appendix F). 3. The fluid temperature was measured prior to and after the system performance checks to ensure the temperature remained within $\pm 1.2^\circ\text{C}$ of the fluid temperature reported during the dielectric parameter measurements. 4. The SAR evaluations were performed within 24 hours of the system performance check. | | | | | | | | | | | | | | | |
| ρ (Kg/m³) | 1000 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

| | | |
|--|---|--|
|  <p>The diagram illustrates the measurement setup. A signal generator is connected to an amplifier, followed by a low-pass filter and a 3dB coupler. The coupler splits the signal into two paths: one through an attenuator (Att3) to a power meter (PM3), and another through a cable to a directional coupler (Dir. Coupler). The Dir. Coupler is connected to a dipole antenna mounted on a flat phantom. A 3D probe positioner is used to measure the field probe. The setup is connected to a computer for data acquisition.</p> |  <p>2 GHz Validation Dipole Setup</p> |  <p>5 GHz Validation Dipole Setup</p> |
| System Performance Check Measurement Setup Diagram | 2 GHz Validation Dipole Setup | 5 GHz Validation Dipole Setup |

| | | | | | |
|-------------------------|--------------------------------------|--|--|------------|---------------|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | | |
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8.0 SIMULATED EQUIVALENT TISSUES



The 2450 MHz simulated tissue mixture consisted of Glycol-monobutyl, water and salt. The 5 GHz simulated tissue mixture was provided by SPEAG and is listed below. The dielectric parameters of the fluid (permittivity and conductivity) were measured prior to the SAR evaluations. See Appendix D for the system manufacturer's 5GHz fluid data sheet.

| SIMULATED TISSUE MIXTURE (2 GHz) | | |
|----------------------------------|--------------------------|----------------|
| INGREDIENT | 2450 MHz Body | 2450 MHz Body |
| | System Performance Check | DUT Evaluation |
| Water | 69.98 % | 69.98 % |
| Glycol Monobutyl | 30.00 % | 30.00 % |
| Salt | 0.02 % | 0.02 % |

| SIMULATED TISSUE MIXTURE (5 GHz) | | |
|----------------------------------|--------------------------|----------------|
| INGREDIENT | 5 GHz Body | 5 GHz Body |
| | System Performance Check | DUT Evaluation |
| Water | 64-78% | 64-78% |
| Mineral Oil | 11-18% | 11-18% |
| Emulsifiers | 9-15% | 9-15% |
| Additives and Salt | 2-3% | 2-3% |


9.0 SAR LIMITS



| SAR RF EXPOSURE LIMITS | | | |
|--|--------------------------------|---|---|
| FCC 47 CFR 2.1093 | Health Canada Safety Code 6 | (General Population / Uncontrolled Exposure) | (Occupational / Controlled Exposure) |
| Spatial Average (averaged over the whole body) | | 0.08 W/kg | 0.4 W/kg |
| Spatial Peak (averaged over any 1 g of tissue) | | 1.6 W/kg | 8.0 W/kg |
| Spatial Peak (hands/wrists/feet/ankles averaged over 10 g) | | 4.0 W/kg | 20.0 W/kg |
| The Spatial Average value of the SAR averaged over the whole body. | | | |
| The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time. | | | |
| The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time. | | | |
| Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure. | | | |
| Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure. | | | |

| | | | | |
|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

10.0 ROBOT SYSTEM SPECIFICATIONS

| | |
|--|---|
| <u>Specifications</u> | |
| Positioner | Stäubli Unimation Corp. Robot Model: RX60L |
| Repeatability | 0.02 mm |
| No. of axis | 6 |
| <u>Data Acquisition Electronic (DAE) System</u> | |
| <u>Cell Controller</u> | |
| Processor | AMD Athlon XP 2400+ |
| Clock Speed | 2.0 GHz |
| Operating System | Windows XP Professional |
| <u>Data Converter</u> | |
| Features | Signal Amplifier, multiplexer, A/D converter, and control logic |
| Software | Measurement Software: DASY4, V4.7 Build 44 |
| | Postprocessing Software: SEMCAD, V1.8 Build 171 |
| Connecting Lines | Optical downlink for data and status info.; Optical uplink for commands and clock |
| <u>DASY4 Measurement Server</u> | |
| Function | Real-time data evaluation for field measurements and surface detection |
| Hardware | PC/104 166MHz Pentium CPU; 32 MB chipdisk; 64 MB RAM |
| Connections | COM1, COM2, DAE, Robot, Ethernet, Service Interface |
| <u>E-Field Probe</u> | |
| Model | EX3DV4 |
| Serial No. | 3600 |
| Construction | Symmetrical design with triangular core |
| Frequency | 10 MHz to 6 GHz |
| Linearity | ±0.2 dB (30 MHz to 3 GHz) |
| <u>Phantom(s)</u> | |
| Type | Planar Phantom |
| Shell Material | Fiberglass |
| Thickness | 2.0 ±0.1 mm |
| Volume | Approx. 70 liters |

| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

11.0 PROBE SPECIFICATION (EX3DV4)

Construction: Symmetrical design with triangular core
Built-in shielding against static charges
PEEK enclosure material (resistant to organic solvents, e.g. DGBE)

Calibration: Basic Broadband Calibration in air: 10-3000 MHz
Conversion Factors (CF) for HSL 900 and HSL 1750

Frequency: 10 MHz to >6 GHz; Linearity: ± 0.2 dB (30 MHz to 3 GHz)

Directivity: ± 0.3 dB in HSL (rotation around probe axis)
 ± 0.5 dB in tissue material (rotation normal to probe axis)

Dynamic Range: 10 μ W/g to >100 mW/g; Linearity: ± 0.2 dB
(noise: typically < 1 μ W/g)

Dimensions: Overall length: 330 mm (Tip: 20 mm)
Tip diameter: 2.5 mm (Body: 12 mm)
Typical distance from probe tip to dipole centers: 1.0 mm

Application: High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better than 30%.



EX3DV4 E-Field Probe

12.0 PLANAR PHANTOM

The planar phantom is a fiberglass shell phantom with a 2.0 mm (+/-0.2mm) thick device measurement area at the center of the phantom for SAR evaluations of devices with a larger surface area than the planar section of the SAM phantom. The planar phantom is integrated in a wooden table (see Appendix H for dimensions and specifications of the planar phantom). The planar phantom was also used for the system performance check evaluations.




Planar Phantom



13.0 DEVICE HOLDER

The DASY4 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. For evaluations of larger devices a Plexiglas platform is attached to the device holder.




Device Holder



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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| | | | | |
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|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
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14.0 TEST EQUIPMENT LIST


| TEST EQUIPMENT | | ASSET NO. | SERIAL NO. | DATE CALIBRATED | | CALIBRATION DUE DATE |
|----------------|---|-----------|------------|-----------------|---------|----------------------|
| USED | DESCRIPTION | | | Brain | Body | |
| x | Schmid & Partner DASY4 System | - | - | - | - | - |
| x | -DASY4 Measurement Server | 00158 | 1078 | N/A | N/A | N/A |
| x | -Robot | 00046 | 599396-01 | N/A | N/A | N/A |
| x | -DAE4 | 00019 | 353 | 10Jul07 | 10Jul08 | 10Jul08 |
| x | -EX3DV4 E-Field Probe | 00213 | 3600 | 24Jan07 | 24Jan08 | 24Jan08 |
| | -300 MHz Validation Dipole | 00023 | 135 | 08Jun07 | 08Jun08 | 08Jun08 |
| | -450 MHz Validation Dipole | 00024 | 136 | 30Jul07 | 30Jul08 | 30Jul08 |
| | -835 MHz Validation Dipole | 00022 | 411 | Brain | 07Jun07 | 07Jun08 |
| | | | | Body | 07Jun07 | 07Jun08 |
| | -900 MHz Validation Dipole | 00020 | 054 | Brain | 07Jun07 | 07Jun08 |
| | | | | Body | 07Jun07 | 07Jun08 |
| | -1800 MHz Validation Dipole | 00021 | 247 | Brain | 06Jun07 | 06Jun08 |
| | | | | Body | 06Jun07 | 06Jun08 |
| | -1900 MHz Validation Dipole | 00032 | 151 | Brain | 06Jun07 | 06Jun08 |
| | | | | Body | 06Jun07 | 06Jun08 |
| | -2450 MHz Validation Dipole | 00025 | 150 | Brain | 16Jul07 | 16Jul08 |
| x | | | | Body | 08Jun07 | 08Jun08 |
| x | 5GHz Validation Dipole | 00126 | 1031 | Body | 18May07 | 18May08 |
| | | | | Body | 22May07 | 22May08 |
| | | | | Brain | 09May07 | 09May08 |
| x | | | | Body | 10May07 | 10May08 |
| | -SAM Phantom V4.0C | 00154 | 1033 | N/A | N/A | N/A |
| x | -Barski Planar Phantom | 00155 | 03-01 | N/A | N/A | N/A |
| | -Plexiglas Side Planar Phantom | 00156 | 161 | N/A | N/A | N/A |
| | -Plexiglas Validation Planar Phantom | 00157 | 137 | N/A | N/A | N/A |
| | ALS-PR-DIEL Dielectric Probe Kit | 00160 | 260-00953 | N/A | N/A | N/A |
| x | HP 85070C Dielectric Probe Kit | 00033 | US39240170 | N/A | N/A | N/A |
| x | Gigatronics 8652A Power Meter | 00007 | 1835272 | 26Mar07 | 26Mar08 | 26Mar08 |
| x | Gigatronics 80701A Power Sensor | 00012 | 1834350 | 22Jan07 | 22Jan08 | 22Jan08 |
| x | Gigatronics 80701A Power Sensor | 00014 | 1833699 | 22Jan07 | 22Jan08 | 22Jan08 |
| | Gigatronics 80701A Power Sensor | 00109 | 1834366 | 26Mar07 | 26Mar08 | 26Mar08 |
| x | HP 8753ET Network Analyzer | 00134 | US39170292 | 20Apr07 | 20Apr08 | 20Apr08 |
| x | HP 8648D Signal Generator | 00005 | 3847A00611 | NCR | NCR | NCR |
| x | Rohde & Schwarz SMR20 Signal Generator | 00006 | 100104 | NCR | NCR | NCR |
| x | Amplifier Research 5S1G4 Power Amplifier | 00106 | 26235 | NCR | NCR | NCR |
| | Amplifier Research 10W1000C Power Amplifier | 00041 | 27887 | NCR | NCR | NCR |
| x | Nextec NB00383 Microwave Amplifier | 00151 | 0535 | NCR | NCR | NCR |



| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

15.0 MEASUREMENT UNCERTAINTIES


| UNCERTAINTY BUDGET FOR DEVICE EVALUATION (5 GHz) | | | | | | |
|--|-------------------------|--------------------------|-------------|----------|------------------------------|------------------------------------|
| Error Description | Uncertainty Value ±% | Probability Distribution | Divisor | ci 1g | Uncertainty Value ±% (1g) | V _i or V _{eff} |
| Measurement System | | | | | | |
| Probe calibration (5 GHz) | 6.6 | Normal | 1 | 1 | 6.6 | ∞ |
| Axial isotropy of the probe | 4.7 | Rectangular | 1.732050808 | 0.7 | 1.9 | ∞ |
| Spherical isotropy of the probe | 9.6 | Rectangular | 1.732050808 | 0.7 | 3.9 | ∞ |
| Spatial resolution | 0 | Rectangular | 1.732050808 | 1 | 0.0 | ∞ |
| Boundary effects | 0.1 | Rectangular | 1.732050808 | 1 | 0.1 | ∞ |
| Probe linearity | 4.7 | Rectangular | 1.732050808 | 1 | 2.7 | ∞ |
| Detection limit | 1 | Rectangular | 1.732050808 | 1 | 0.6 | ∞ |
| Readout electronics | 0.3 | Normal | 1 | 1 | 0.3 | ∞ |
| Response time | 0.8 | Rectangular | 1.732050808 | 1 | 0.5 | ∞ |
| Integration time | 2.6 | Rectangular | 1.732050808 | 1 | 1.5 | ∞ |
| RF ambient conditions | 3 | Rectangular | 1.732050808 | 1 | 1.7 | ∞ |
| Mech. constraints of robot | 0.8 | Rectangular | 1.732050808 | 1 | 0.5 | ∞ |
| Probe positioning | 5.7 | Rectangular | 1.732050808 | 1 | 3.3 | ∞ |
| Extrapolation & integration | 4 | Rectangular | 1.732050808 | 1 | 2.3 | ∞ |
| Test Sample Related | | | | | | |
| Device positioning | 2.9 | Normal | 1 | 1 | 2.9 | 12 |
| Device holder uncertainty | 3.6 | Normal | 1 | 1 | 3.6 | 8 |
| Power drift | 5 | Rectangular | 1.732050808 | 1 | 2.9 | ∞ |
| Phantom and Setup | | | | | | |
| Phantom uncertainty | 4 | Rectangular | 1.732050808 | 1 | 2.3 | ∞ |
| Liquid conductivity (target) | 5 | Rectangular | 1.732050808 | 0.64 | 1.8 | ∞ |
| Liquid conductivity (measured) | 3.3 | Normal | 1 | 0.64 | 2.1 | ∞ |
| Liquid permittivity (target) | 10 | Rectangular | 1.732050808 | 0.6 | 3.5 | ∞ |
| Liquid permittivity (measured) | 8.2 | Normal | 1 | 0.6 | 4.9 | ∞ |
| Combined Standard Uncertainty | | | | | 13.05 | |
| Expanded Uncertainty (k=2) | | | | | 26.10 | |
| Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5]) | | | | | | |



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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| | | | | |
|--|--|--|--|--|
|  | Date(s) of Evaluation November 02, 06, 2007 | Test Report Serial No. 102407KBC-T866-S15WB | Test Report Revision No. Rev. 1.0 (Initial Release) |  |
| | Test Report Issue Date March 20, 2008 | Description of Test(s) Specific Absorption Rate | RF Exposure Category General Population | |

MEASUREMENT UNCERTAINTIES (Cont.)

| UNCERTAINTY BUDGET FOR SYSTEM VALIDATION (5 GHz) | | | | | | |
|--|-------------------------|--------------------------|-------------|----------|------------------------------|------------------------------------|
| Error Description | Uncertainty Value ±% | Probability Distribution | Divisor | ci 1g | Uncertainty Value ±% (1g) | V _i or V _{eff} |
| Measurement System | | | | | | |
| Probe calibration (5 GHz) | 6.6 | Normal | 1 | 1 | 6.6 | ∞ |
| Axial isotropy of the probe | 4.7 | Rectangular | 1.732050808 | 1 | 2.7 | ∞ |
| Spherical isotropy of the probe | 9.6 | Rectangular | 1.732050808 | 1 | 5.5 | ∞ |
| Spatial resolution | 0 | Rectangular | 1.732050808 | 1 | 0.0 | ∞ |
| Boundary effects | 0.1 | Rectangular | 1.732050808 | 1 | 0.1 | ∞ |
| Probe linearity | 4.7 | Rectangular | 1.732050808 | 1 | 2.7 | ∞ |
| Detection limit | 1 | Rectangular | 1.732050808 | 1 | 0.6 | ∞ |
| Readout electronics | 0.3 | Normal | 1 | 1 | 0.3 | ∞ |
| Response time | 0 | Rectangular | 1.732050808 | 1 | 0.0 | ∞ |
| Integration time | 0 | Rectangular | 1.732050808 | 1 | 0.0 | ∞ |
| RF ambient conditions | 3 | Rectangular | 1.732050808 | 1 | 1.7 | ∞ |
| Mech. constraints of robot | 0.8 | Rectangular | 1.732050808 | 1 | 0.5 | ∞ |
| Probe positioning | 5.7 | Rectangular | 1.732050808 | 1 | 3.3 | ∞ |
| Extrapolation & integration | 4 | Rectangular | 1.732050808 | 1 | 2.3 | ∞ |
| Dipole | | | | | | |
| Dipole positioning | 2 | Rectangular | 1.732050808 | 1 | 1.2 | ∞ |
| Power & Power Drift | 4.7 | Rectangular | 1.732050808 | 1 | 2.7 | ∞ |
| Phantom and Setup | | | | | | |
| Phantom uncertainty | 4 | Rectangular | 1.732050808 | 1 | 2.3 | ∞ |
| Liquid conductivity (target) | 5 | Rectangular | 1.732050808 | 0.64 | 1.8 | ∞ |
| Liquid conductivity (measured) | 4.3 | Normal | 1 | 0.64 | 2.8 | ∞ |
| Liquid permittivity (target) | 10 | Rectangular | 1.732050808 | 0.6 | 3.5 | ∞ |
| Liquid permittivity (measured) | 1.8 | Normal | 1 | 0.6 | 1.1 | ∞ |
| Combined Standard Uncertainty | | | | | 12.10 | |
| Expanded Uncertainty (k=2) | | | | | 24.19 | |
| Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5]) | | | | | | |


| | | | | | |
|-------------------------|--|-----------|--|-----|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

MEASUREMENT UNCERTAINTIES (Cont.)

| UNCERTAINTY BUDGET FOR DEVICE EVALUATION (2 GHz) | | | | | | |
|--|-------------------------|--------------------------|-------------|----------|------------------------------|------------------------------------|
| Error Description | Uncertainty Value ±% | Probability Distribution | Divisor | ci 1g | Uncertainty Value ±% (1g) | V _i or V _{eff} |
| Measurement System | | | | | | |
| Probe calibration (2450 MHz) | 5.9 | Normal | 1 | 1 | 5.9 | ∞ |
| Axial isotropy of the probe | 4.7 | Rectangular | 1.732050808 | 0.7 | 1.9 | ∞ |
| Spherical isotropy of the probe | 9.6 | Rectangular | 1.732050808 | 0.7 | 3.9 | ∞ |
| Spatial resolution | 0 | Rectangular | 1.732050808 | 1 | 0.0 | ∞ |
| Boundary effects | 0.2 | Rectangular | 1.732050808 | 1 | 0.1 | ∞ |
| Probe linearity | 4.7 | Rectangular | 1.732050808 | 1 | 2.7 | ∞ |
| Detection limit | 1 | Rectangular | 1.732050808 | 1 | 0.6 | ∞ |
| Readout electronics | 0.3 | Normal | 1 | 1 | 0.3 | ∞ |
| Response time | 0.8 | Rectangular | 1.732050808 | 1 | 0.5 | ∞ |
| Integration time | 2.6 | Rectangular | 1.732050808 | 1 | 1.5 | ∞ |
| RF ambient conditions | 3 | Rectangular | 1.732050808 | 1 | 1.7 | ∞ |
| Mech. constraints of robot | 0.4 | Rectangular | 1.732050808 | 1 | 0.2 | ∞ |
| Probe positioning | 2.9 | Rectangular | 1.732050808 | 1 | 1.7 | ∞ |
| Extrapolation & integration | 1 | Rectangular | 1.732050808 | 1 | 0.6 | ∞ |
| Test Sample Related | | | | | | |
| Device positioning | 2.9 | Normal | 1 | 1 | 2.9 | 12 |
| Device holder uncertainty | 3.6 | Normal | 1 | 1 | 3.6 | 8 |
| Power drift | 5 | Rectangular | 1.732050808 | 1 | 2.9 | ∞ |
| Phantom and Setup | | | | | | |
| Phantom uncertainty | 4 | Rectangular | 1.732050808 | 1 | 2.3 | ∞ |
| Liquid conductivity (target) | 5 | Rectangular | 1.732050808 | 0.64 | 1.8 | ∞ |
| Liquid conductivity (measured) | 3.1 | Normal | 1 | 0.64 | 2.0 | ∞ |
| Liquid permittivity (target) | 5 | Rectangular | 1.732050808 | 0.6 | 1.7 | ∞ |
| Liquid permittivity (measured) | 4 | Normal | 1 | 0.6 | 2.4 | ∞ |
| Combined Standard Uncertainty | | | | | 11.00 | |
| Expanded Uncertainty (k=2) | | | | | 22.01 | |


Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5])



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

MEASUREMENT UNCERTAINTIES (Cont.)


| UNCERTAINTY BUDGET FOR SYSTEM VALIDATION (2 GHz) | | | | | | |
|--|---------------------------|--------------------------|-------------|-------|--------------------------------|--------------------|
| Error Description | Uncertainty Value $\pm\%$ | Probability Distribution | Divisor | ci 1g | Uncertainty Value $\pm\%$ (1g) | V_i or V_{eff} |
| Measurement System | | | | | | |
| Probe calibration (2450 MHz) | 5.9 | Normal | 1 | 1 | 5.9 | ∞ |
| Axial isotropy of the probe | 4.7 | Rectangular | 1.732050808 | 1 | 2.7 | ∞ |
| Spherical isotropy of the probe | 0 | Rectangular | 1.732050808 | 1 | 0.0 | ∞ |
| Spatial resolution | 0 | Rectangular | 1.732050808 | 1 | 0.0 | ∞ |
| Boundary effects | 0.2 | Rectangular | 1.732050808 | 1 | 0.1 | ∞ |
| Probe linearity | 4.7 | Rectangular | 1.732050808 | 1 | 2.7 | ∞ |
| Detection limit | 1 | Rectangular | 1.732050808 | 1 | 0.6 | ∞ |
| Readout electronics | 0.3 | Normal | 1 | 1 | 0.3 | ∞ |
| Response time | 0 | Rectangular | 1.732050808 | 1 | 0.0 | ∞ |
| Integration time | 0 | Rectangular | 1.732050808 | 1 | 0.0 | ∞ |
| RF ambient conditions | 3 | Rectangular | 1.732050808 | 1 | 1.7 | ∞ |
| Mech. constraints of robot | 0.4 | Rectangular | 1.732050808 | 1 | 0.2 | ∞ |
| Probe positioning | 2.9 | Rectangular | 1.732050808 | 1 | 1.7 | ∞ |
| Extrapolation & integration | 1 | Rectangular | 1.732050808 | 1 | 0.6 | ∞ |
| Dipole | | | | | | |
| Dipole Positioning | 2 | Normal | 1.732050808 | 1 | 1.2 | ∞ |
| Power & Power Drift | 4.7 | Normal | 1.732050808 | 1 | 2.7 | ∞ |
| Phantom and Setup | | | | | | |
| Phantom uncertainty | 4 | Rectangular | 1.732050808 | 1 | 2.3 | ∞ |
| Liquid conductivity (target) | 5 | Rectangular | 1.732050808 | 0.64 | 1.8 | ∞ |
| Liquid conductivity (measured) | 1 | Normal | 1 | 0.64 | 0.6 | ∞ |
| Liquid permittivity (target) | 5 | Rectangular | 1.732050808 | 0.6 | 1.7 | ∞ |
| Liquid permittivity (measured) | 1 | Normal | 1 | 0.6 | 0.6 | ∞ |
| Combined Standard Uncertainty | | | | | 8.80 | |
| Expanded Uncertainty (k=2) | | | | | 17.59 | |
| Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5]) | | | | | | |



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |


16.0 REFERENCES



- [1] Federal Communications Commission - "Radiofrequency radiation exposure evaluation: portable devices", Rule Part 47 CFR §2.1093: 1999.
- [2] Health Canada - "Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz", Safety Code 6: 1999.
- [3] Federal Communications Commission - "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields", OET Bulletin 65, Supplement C (Edition 01-01), FCC, Washington, D.C.: June 2001.
- [4] Industry Canada - "Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)", Radio Standards Specification RSS-102 Issue 2: November 2005.
- [5] IEEE Standard 1528-2003 - "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques": December 2003.
- [6] Federal Communications Commission - "SAR Measurement Procedures for 802.11a/b/g Transmitters": May 2007 (Rev. 1.2).
- [7] Federal Communications Commission - "SAR Measurement Requirements for 3 - 6 GHz": October 2006 (Rev. 1.1).

| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

APPENDIX A - SAR MEASUREMENT DATA

| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/06/2007

Body SAR - 802.11b - 1 Mbps - 2442 MHz - Channel 7 - Bottom Side of Tablet PC - AUX Antenna

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY7200000659

Ambient Temp: 22.2°C; Fluid Temp: 20.2°C; Barometric Pressure: 101.1 kPa; Humidity: 31%

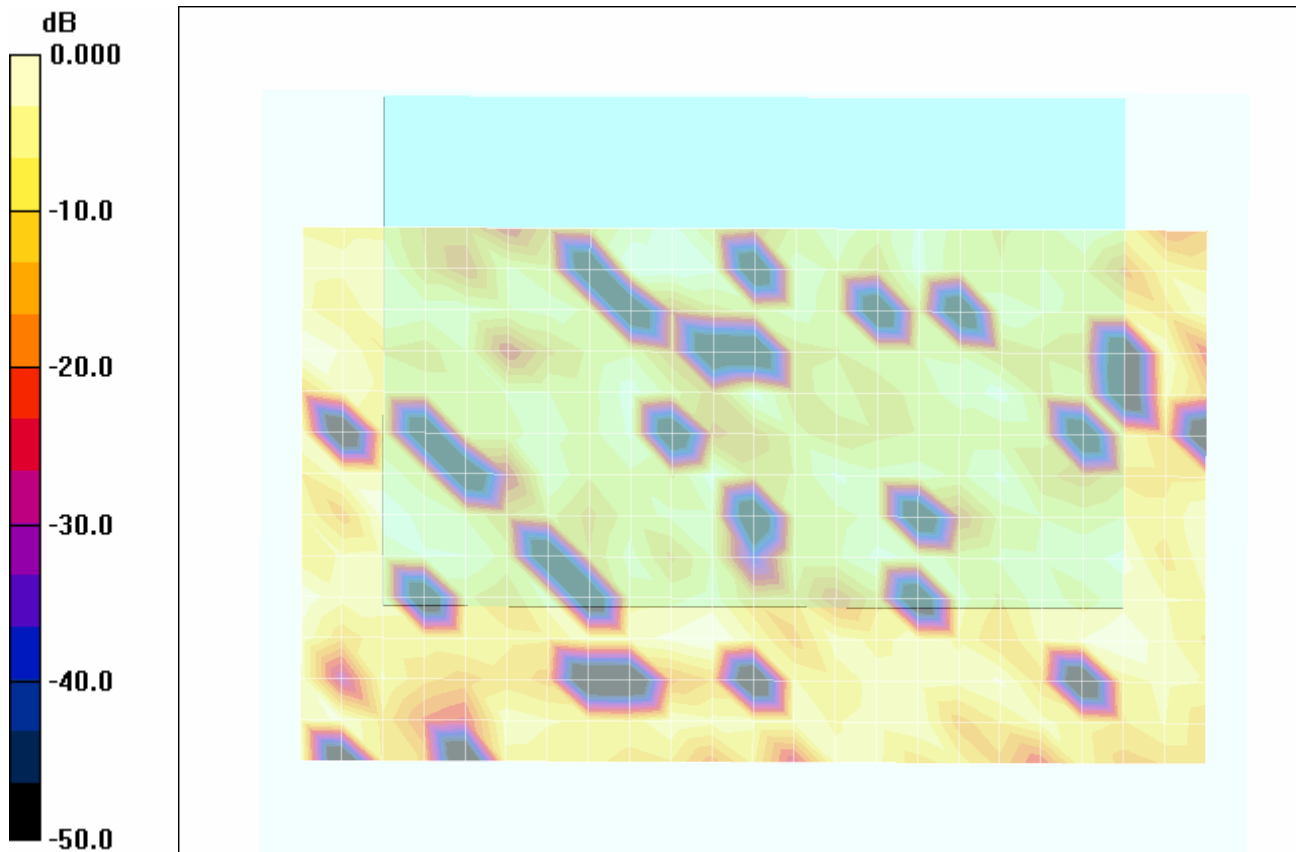
Power: 11.1V, 3900mAh Li-ion Battery
 Communication System: DSSS WLAN
 RF Output Power: 16.1 dBm (Conducted)
 Frequency: 2442 MHz; Duty Cycle: 1:1.02
 Medium: M2450 Medium parameters used: $f = 2442 \text{ MHz}$; $\sigma = 2.01 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.31, 6.31, 6.31); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171


Body SAR - Bottom Side Touch Position of Tablet PC - AUX Antenna (Chain A) - 2442 MHz



Area Scan (14x23x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.007 mW/g



0 dB = 0.007mW/g

| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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| | | | | |
|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/06/2007

Body SAR - 802.11b - 1 Mbps - 2442 MHz - Channel 7 - Bottom Side of Tablet PC - MAIN Antenna

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY720000659

Ambient Temp: 22.2°C; Fluid Temp: 20.2°C; Barometric Pressure: 101.1 kPa; Humidity: 31%

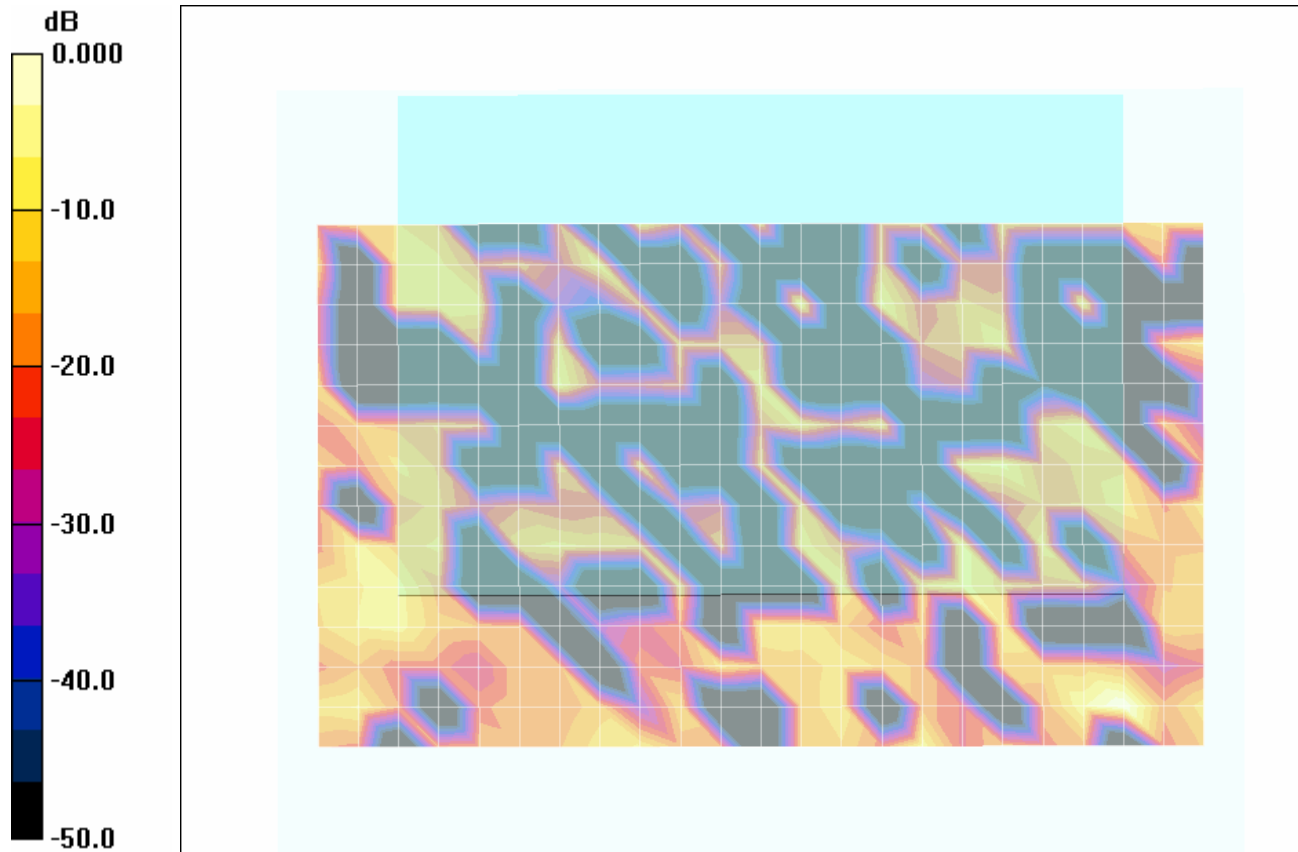
Power: 11.1V, 3900mAh Li-ion Battery
Communication System: DSSS WLAN
RF Output Power: 16.1 dBm (Conducted)
Frequency: 2442 MHz; Duty Cycle: 1:1.02
Medium: M2450 Medium parameters used: $f = 2442 \text{ MHz}$; $\sigma = 2.01 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.31, 6.31, 6.31); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171


Body SAR - Bottom Side Touch Position of Tablet PC - MAIN Antenna (Chain B) - 2442 MHz



Area Scan (14x23x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.047 mW/g



0 dB = 0.047mW/g

| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/06/2007

Body SAR - 802.11b - 1 Mbps - 2442 MHz - Channel 7 - AUX Antenna Adjacent Edge of Tablet PC

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY7200000659

Ambient Temp: 22.2°C; Fluid Temp: 20.2°C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Power: 11.1V, 3900mAh Li-ion Battery
Communication System: DSSS WLAN
RF Output Power: 16.1 dBm (Conducted)
Frequency: 2442 MHz; Duty Cycle: 1:1.02
Medium: M2450 Medium parameters used: $f = 2442 \text{ MHz}$; $\sigma = 2.01 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

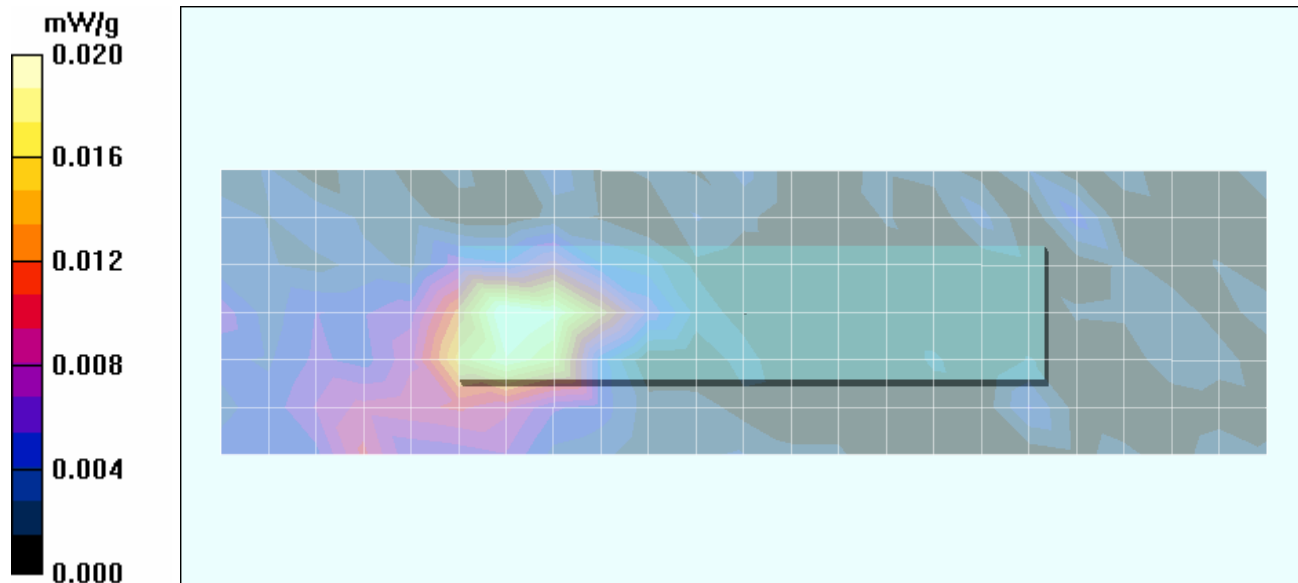
- Probe: EX3DV4 - SN3600; ConvF(6.31, 6.31, 6.31); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171


Body SAR - AUX Antenna Adjacent Edge Touch Position of Tablet PC - AUX Antenna (Chain A) - 2442 MHz



Area Scan (7x23x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.021 mW/g

Body SAR - AUX Antenna Adjacent Edge Touch Position of Tablet PC - AUX Antenna (Chain A) - 2442 MHz

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.83 V/m; Power Drift = 0.100 dB
Peak SAR (extrapolated) = 0.044 W/kg
SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00809 mW/g
Maximum value of SAR (measured) = 0.020 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/06/2007

Body SAR - 802.11b - 1 Mbps - 2442 MHz - Channel 7 - MAIN Antenna Adjacent Edge of Tablet PC

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY720000659

Ambient Temp: 22.2°C; Fluid Temp: 20.2°C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Power: 11.1V, 3900mAh Li-ion Battery
 Communication System: DSSS WLAN
 RF Output Power: 16.1 dBm (Conducted)
 Frequency: 2442 MHz; Duty Cycle: 1:1.02
 Medium: M2450 Medium parameters used: $f = 2442 \text{ MHz}$; $\sigma = 2.01 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

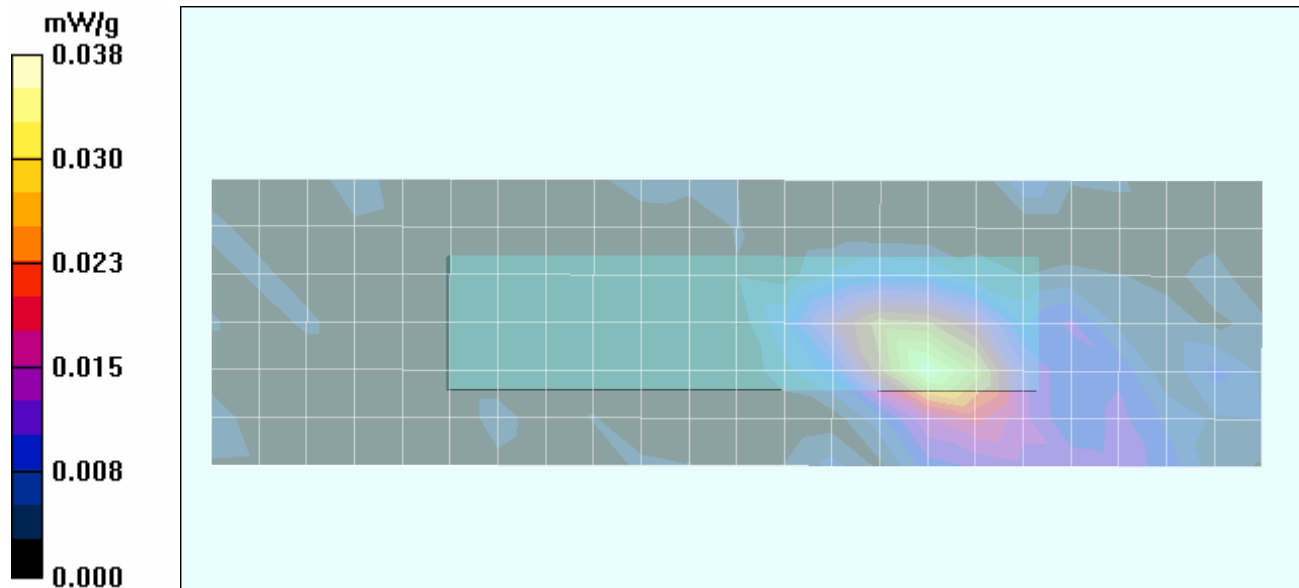
- Probe: EX3DV4 - SN3600; ConvF(6.31, 6.31, 6.31); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - MAIN Antenna Adjacent Edge Touch Position of Tablet PC - MAIN Antenna (Chain B) - 2442 MHz


Area Scan (7x23x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.035 mW/g



Body SAR - MAIN Antenna Adjacent Edge Touch Position of Tablet PC - MAIN Antenna (Chain B) - 2442 MHz

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 3.60 V/m; Power Drift = 0.205 dB
 Peak SAR (extrapolated) = 0.054 W/kg
SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.014 mW/g
 Maximum value of SAR (measured) = 0.038 mW/g



Due to the very low SAR level measured in this configuration the Z-axis scan is only reporting noise. The DASY4 software adjusts the scale according to the measured SAR level, which for this evaluation is close to the measurement noise floor.

| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5180 MHz - Channel 36 - Bottom Side of Tablet PC - AUX Antenna

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY7200000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Power: 11.1V, 3900mAh Li-ion Battery

Communication System: OFDM WLAN

Frequency: 5180 MHz; Duty Cycle: 1:1.1

RF Output Power: 15.8 dBm (Conducted)

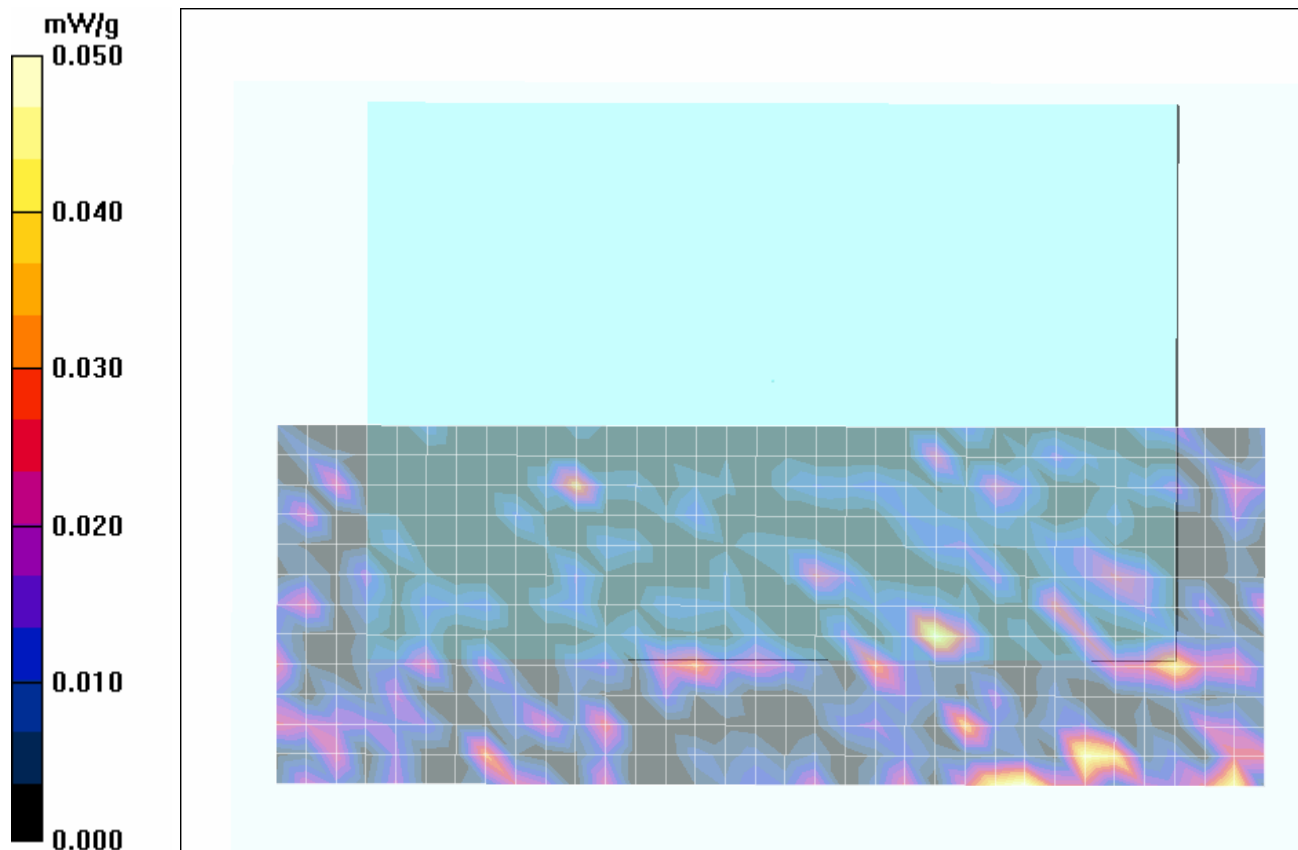
Medium: M5200-5800 Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.25 \text{ mho/m}$; $\epsilon_r = 45.0$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(4.1, 4.1, 4.1); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171


Body SAR - Bottom Side Touch Position of Tablet PC - AUX Antenna (Chain A) - 5180 MHz



Area Scan (13x34x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.050 mW/g



Due to the very low SAR level measured in this configuration the Z-axis scan is only reporting noise. The DASY4 software adjusts the scale according to the measured SAR level, which for this evaluation is close to the measurement noise floor.

| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5180 MHz - Channel 36 - Bottom Side of Tablet PC - MAIN Antenna

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY7200000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Power: 11.1V, 3900mAh Li-ion Battery

Communication System: OFDM WLAN

Frequency: 5180 MHz; Duty Cycle: 1:1.1

RF Output Power: 16.1 dBm (Conducted)

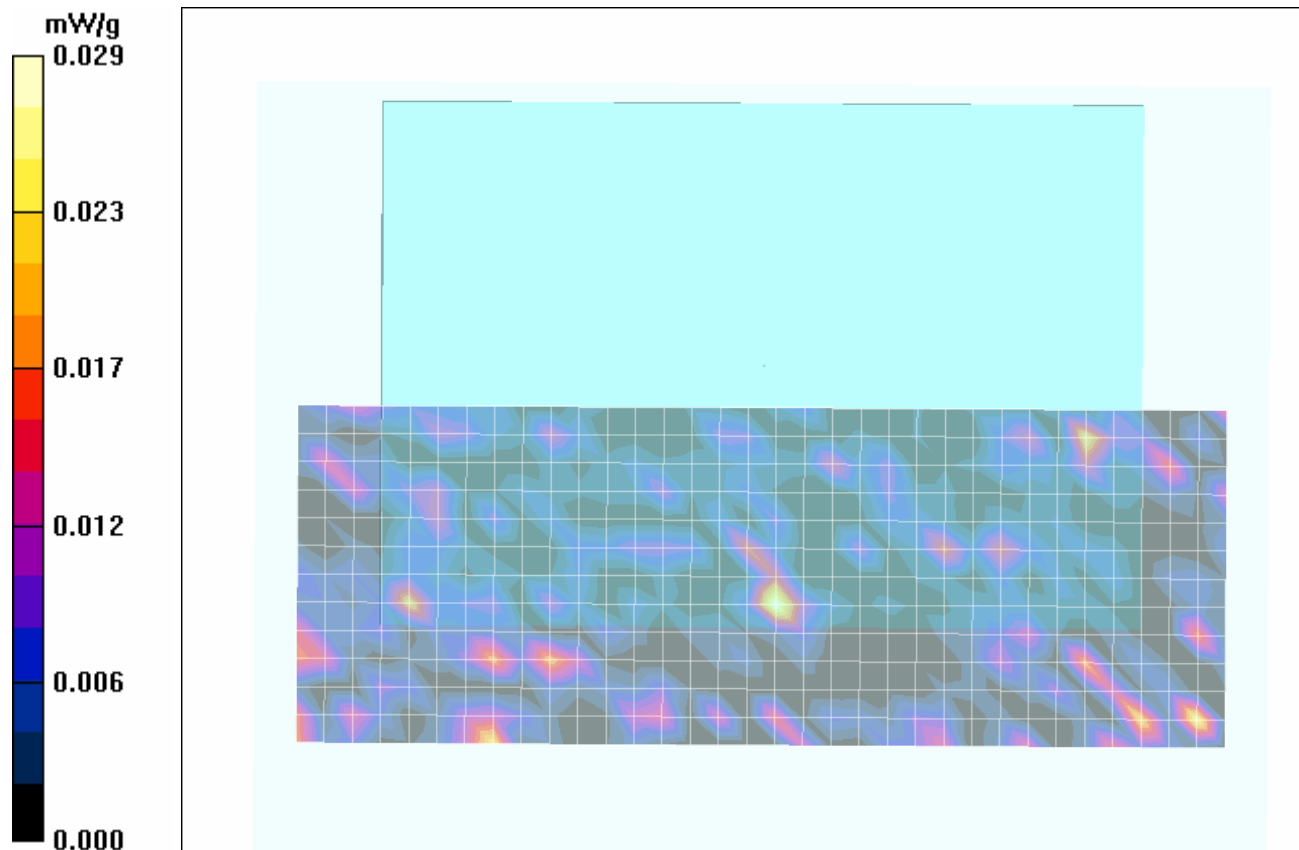
Medium: M5200-5800 Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.25 \text{ mho/m}$; $\epsilon_r = 45.0$; $\rho = 1000 \text{ kg/m}^3$


- Probe: EX3DV4 - SN3600; ConvF(4.1, 4.1, 4.1); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171



Body SAR - Bottom Side Touch Position of Tablet PC - MAIN Antenna (Chain B) - 5180 MHz

Area Scan (13x34x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.029 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5180 MHz - Channel 36 - AUX Antenna Adjacent Edge of Tablet PC

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY720000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Power: 11.1V, 3900mAh Li-ion Battery

Communication System: OFDM WLAN

Frequency: 5180 MHz; Duty Cycle: 1:1.1

RF Output Power: 15.8 dBm (Conducted)

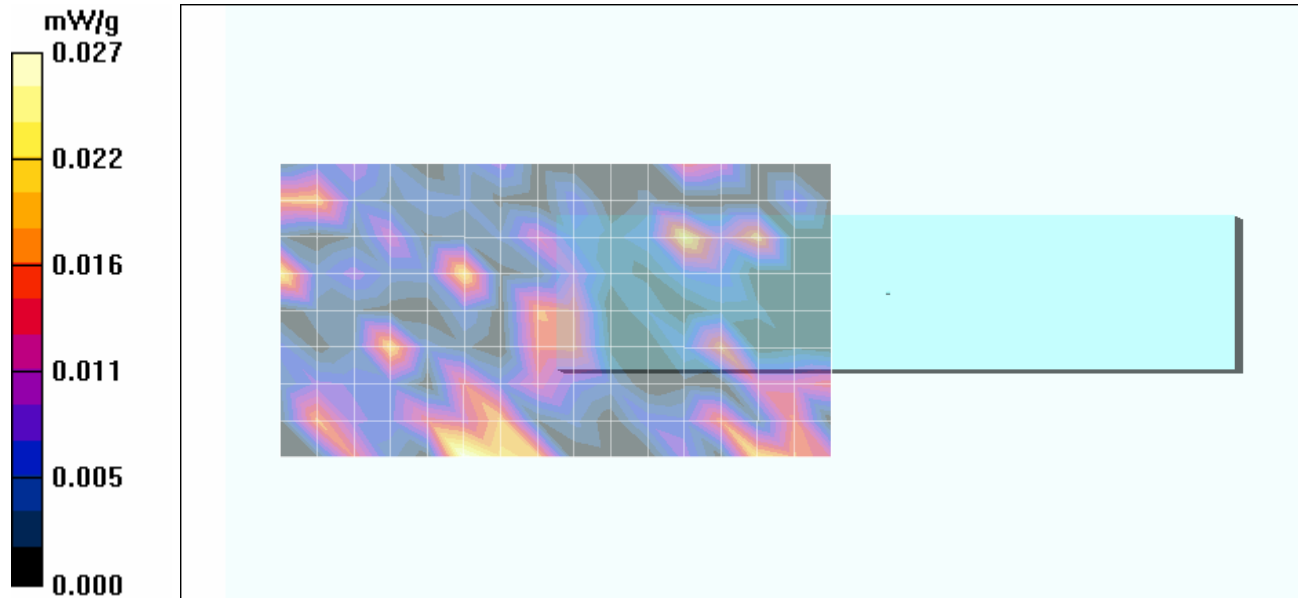
Medium: M5200-5800 Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.25 \text{ mho/m}$; $\epsilon_r = 45.0$; $\rho = 1000 \text{ kg/m}^3$


- Probe: EX3DV4 - SN3600; ConvF(4.1, 4.1, 4.1); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171



Body SAR - AUX Antenna Adjacent Edge Touch Position of Tablet PC - AUX Antenna (Chain A) - 5180 MHz

Area Scan (9x16x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.027 mW/g



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|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5180 MHz - Channel 36 - MAIN Antenna Adjacent Edge of Tablet PC

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY7200000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Power: 11.1V, 3900mAh Li-ion Battery

Communication System: OFDM WLAN

Frequency: 5180 MHz; Duty Cycle: 1:1.1

RF Output Power: 16.1 dBm (Conducted)

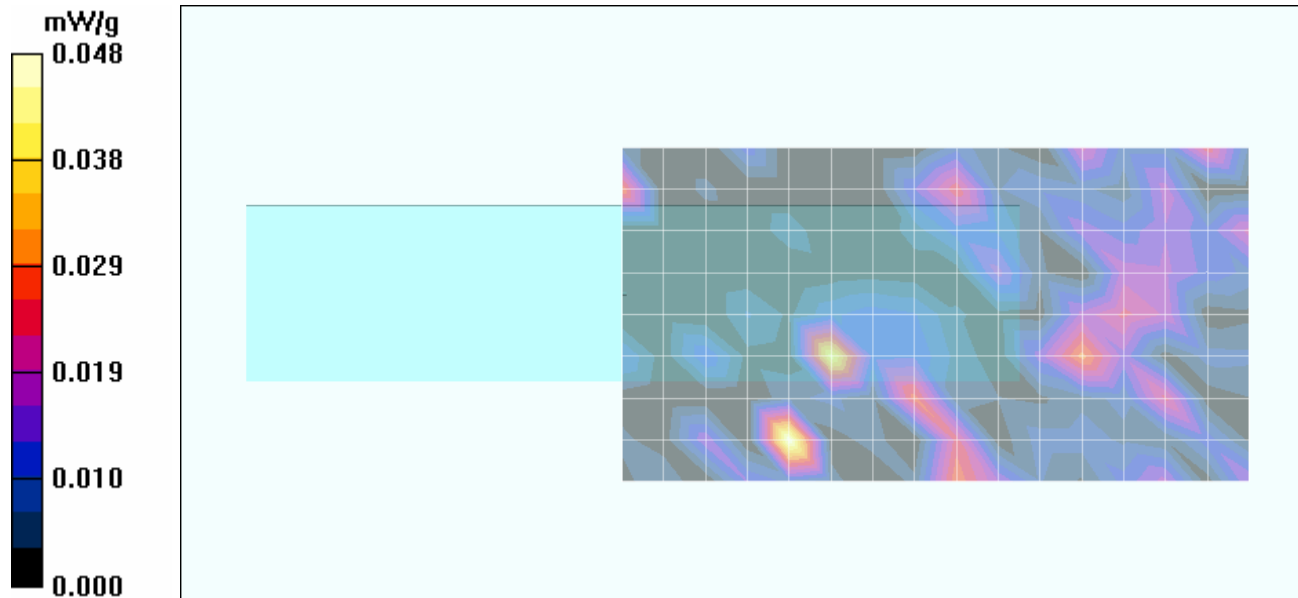
Medium: M5200-5800 Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.25 \text{ mho/m}$; $\epsilon_r = 45.0$; $\rho = 1000 \text{ kg/m}^3$


- Probe: EX3DV4 - SN3600; ConvF(4.1, 4.1, 4.1); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171



Body SAR - MAIN Antenna Adjacent Edge Touch Position of Tablet PC - MAIN Antenna (Chain B) - 5180 MHz

Area Scan (9x16x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.048 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5260 MHz - Channel 52 - Bottom Side of Tablet PC - AUX Antenna

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY7200000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Power: 11.1V, 3900mAh Li-ion Battery

Communication System: OFDM WLAN

Frequency: 5260 MHz; Duty Cycle: 1:1.1

RF Output Power: 17.5 dBm (Conducted)

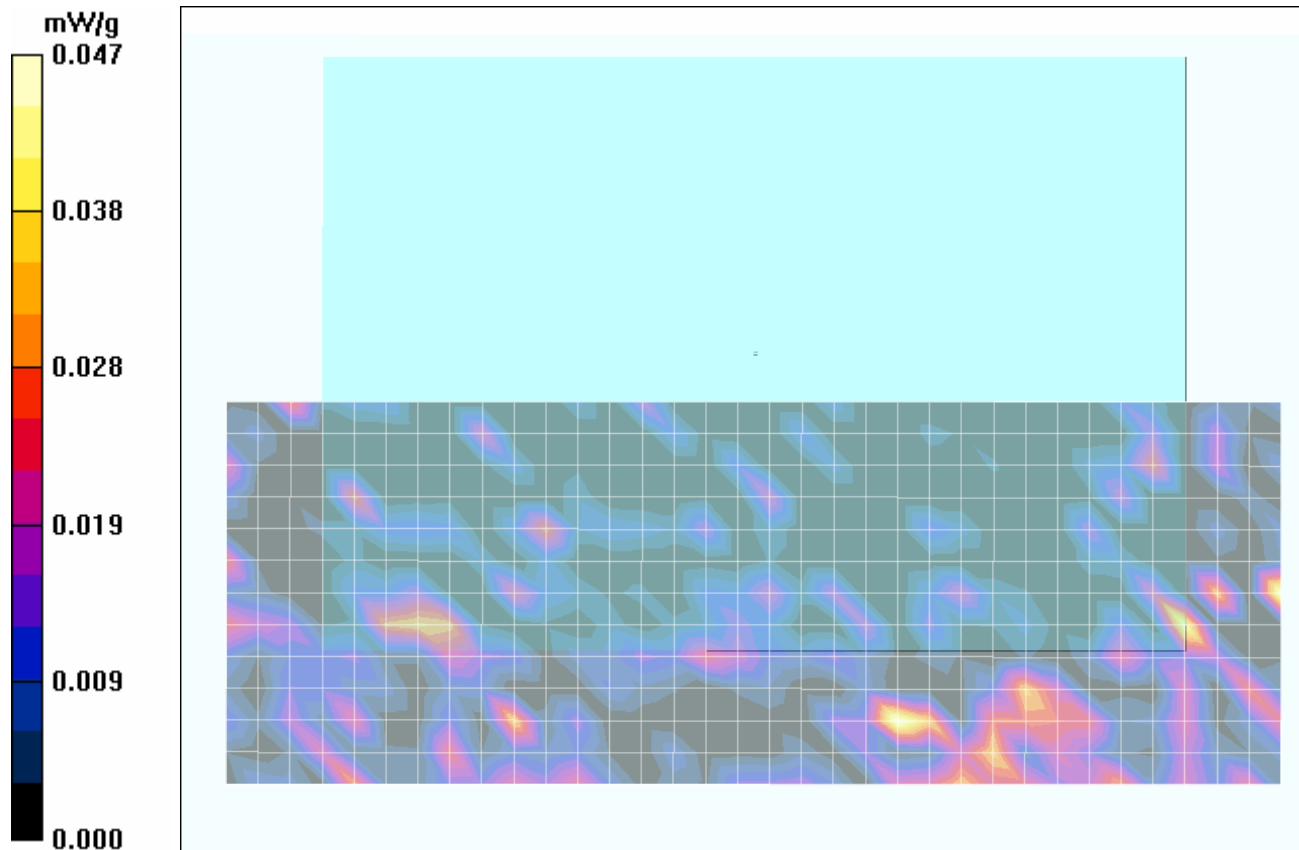
Medium: M5200-5800 Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.39 \text{ mho/m}$; $\epsilon_r = 44.9$; $\rho = 1000 \text{ kg/m}^3$


- Probe: EX3DV4 - SN3600; ConvF(4.1, 4.1, 4.1); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171



Body SAR - Bottom Side Touch Position of Tablet PC - AUX Antenna (Chain A) - 5260 MHz

Area Scan (13x34x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.047 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5260 MHz - Channel 52 - Bottom Side of Tablet PC - MAIN Antenna

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY7200000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Power: 11.1V, 3900mAh Li-ion Battery

Communication System: OFDM WLAN

Frequency: 5260 MHz; Duty Cycle: 1:1.1

RF Output Power: 17.5 dBm (Conducted)

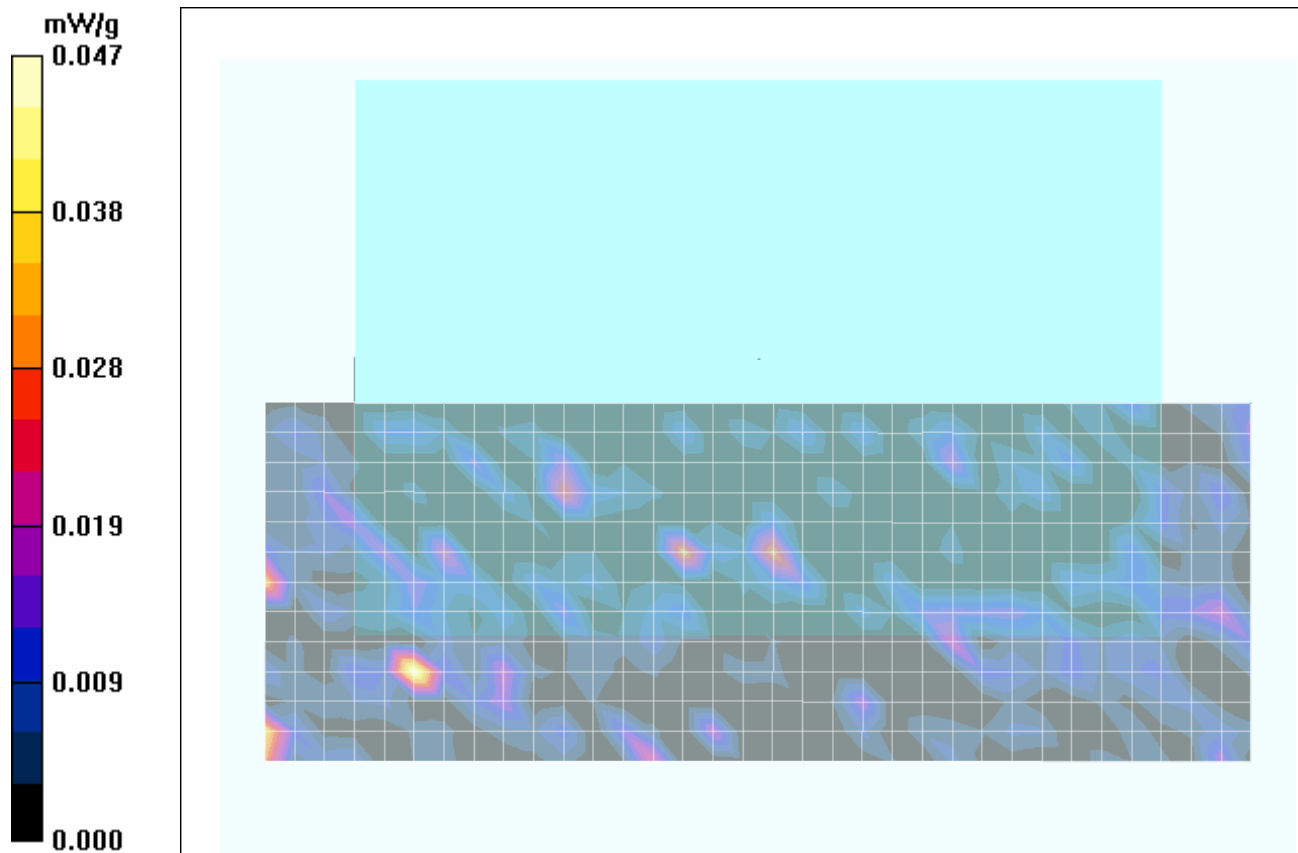
Medium: M5200-5800 Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.39 \text{ mho/m}$; $\epsilon_r = 44.9$; $\rho = 1000 \text{ kg/m}^3$


- Probe: EX3DV4 - SN3600; ConvF(4.1, 4.1, 4.1); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171



Body SAR - Bottom Side Touch Position of Tablet PC - MAIN Antenna (Chain B) - 5260 MHz

Area Scan (13x34x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.047 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5260 MHz - Channel 52 - AUX Antenna Adjacent Edge of Tablet PC

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY720000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Power: 11.1V, 3900mAh Li-ion Battery

Communication System: OFDM WLAN

Frequency: 5260 MHz; Duty Cycle: 1:1.1

RF Output Power: 17.5 dBm (Conducted)

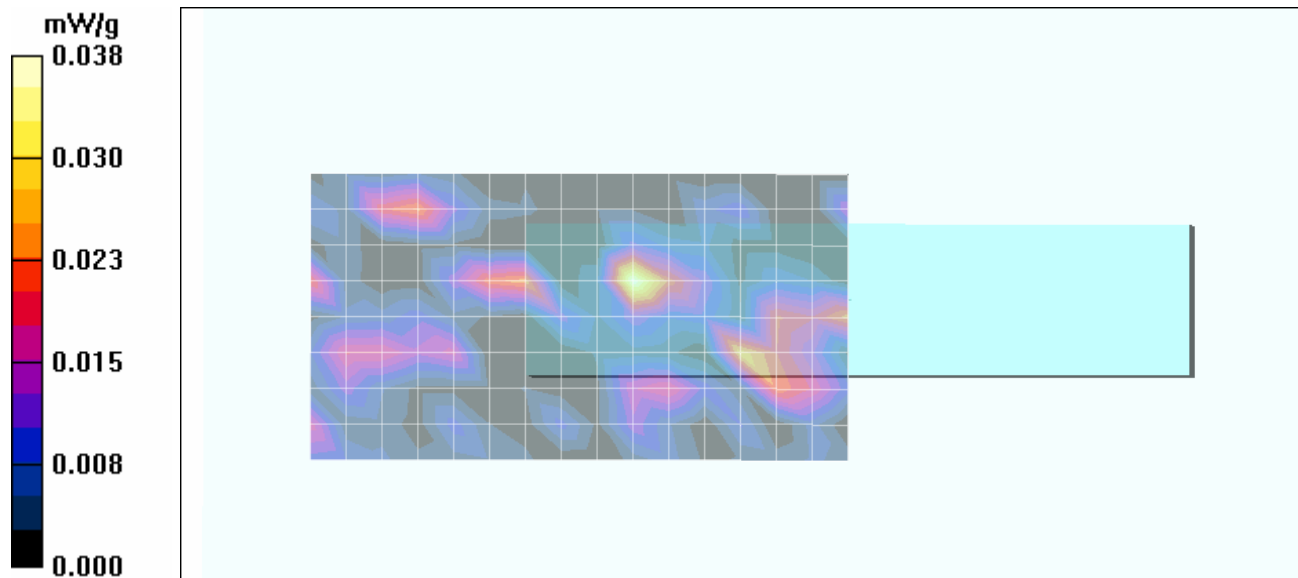
Medium: M5200-5800 Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.39 \text{ mho/m}$; $\epsilon_r = 44.9$; $\rho = 1000 \text{ kg/m}^3$


- Probe: EX3DV4 - SN3600; ConvF(4.1, 4.1, 4.1); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171



Body SAR - AUX Antenna Adjacent Edge Touch Position of Tablet PC - AUX Antenna (Chain A) - 5260 MHz

Area Scan (9x16x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.038 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5260 MHz - Channel 52 - MAIN Antenna Adjacent Edge of Tablet PC

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY7200000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Power: 11.1V, 3900mAh Li-ion Battery

Communication System: OFDM WLAN

Frequency: 5260 MHz; Duty Cycle: 1:1.1

RF Output Power: 17.5 dBm (Conducted)

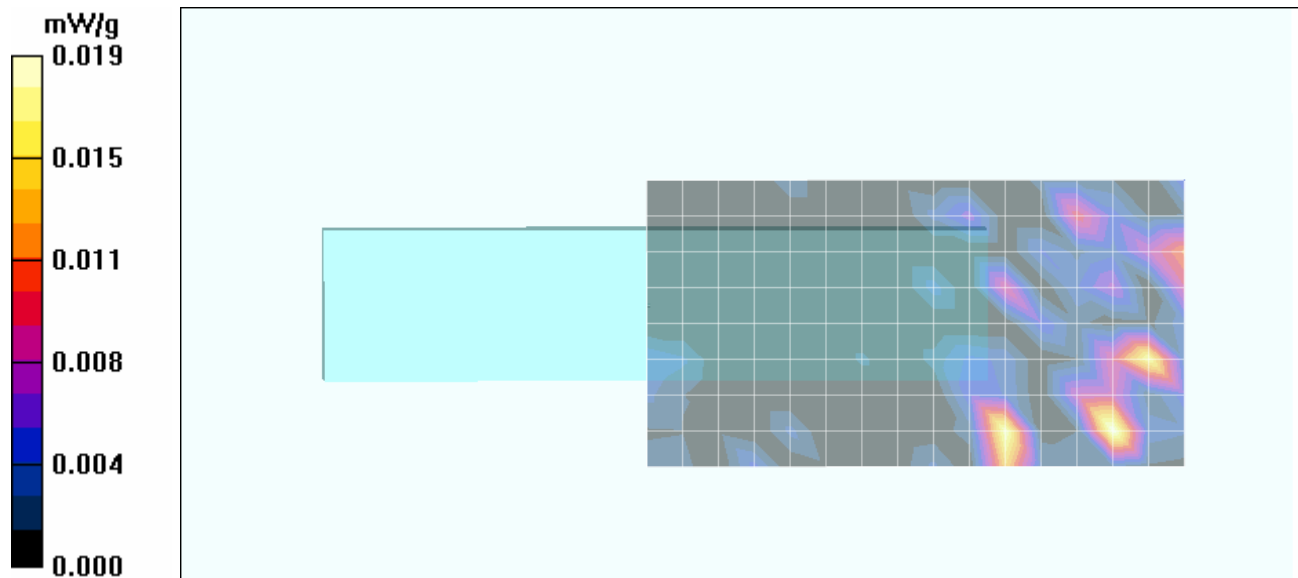
Medium: M5200-5800 Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.39 \text{ mho/m}$; $\epsilon_r = 44.9$; $\rho = 1000 \text{ kg/m}^3$


- Probe: EX3DV4 - SN3600; ConvF(4.1, 4.1, 4.1); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171



Body SAR - MAIN Antenna Adjacent Edge Touch Position of Tablet PC - MAIN Antenna (Chain B) - 5260 MHz

Area Scan (9x16x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.019 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5785 MHz - Channel 157 - Bottom Side of Tablet PC - AUX Antenna

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY720000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

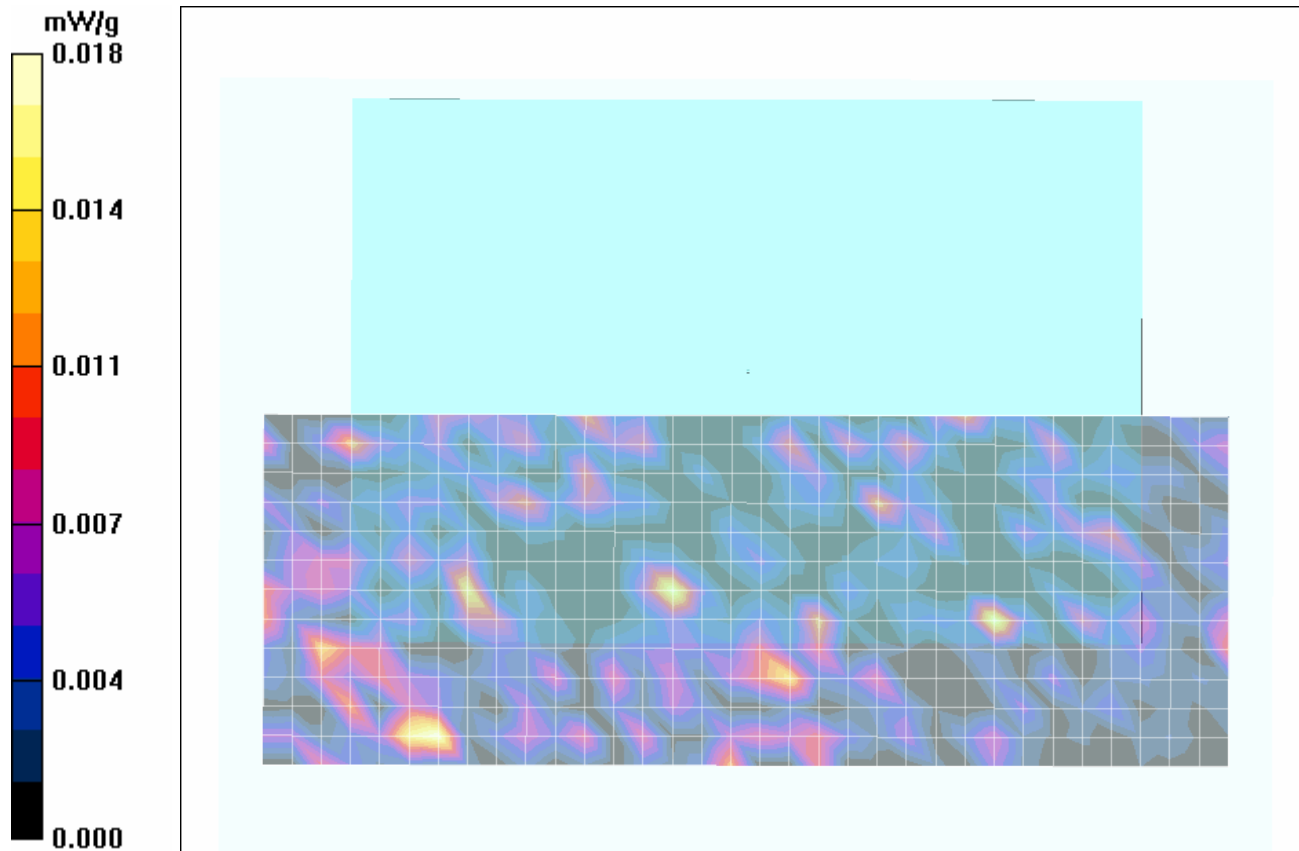
Power: 11.1V, 3900mAh Li-ion Battery
Communication System: OFDM WLAN
Frequency: 5785 MHz; Duty Cycle: 1:1.1
RF Output Power: 17.6 dBm (Conducted)
Medium: M5200-5800 Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.2 \text{ mho/m}$; $\epsilon_r = 45.5$; $\rho = 1000 \text{ kg/m}^3$


- Probe: EX3DV4 - SN3600; ConvF(4.14, 4.14, 4.14); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171



Body SAR - Bottom Side Touch Position of Tablet PC - AUX Antenna (Chain A) - 5785 MHz

Area Scan (13x34x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.018 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5785 MHz - Channel 157 - Bottom Side of Tablet PC - MAIN Antenna

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY7200000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

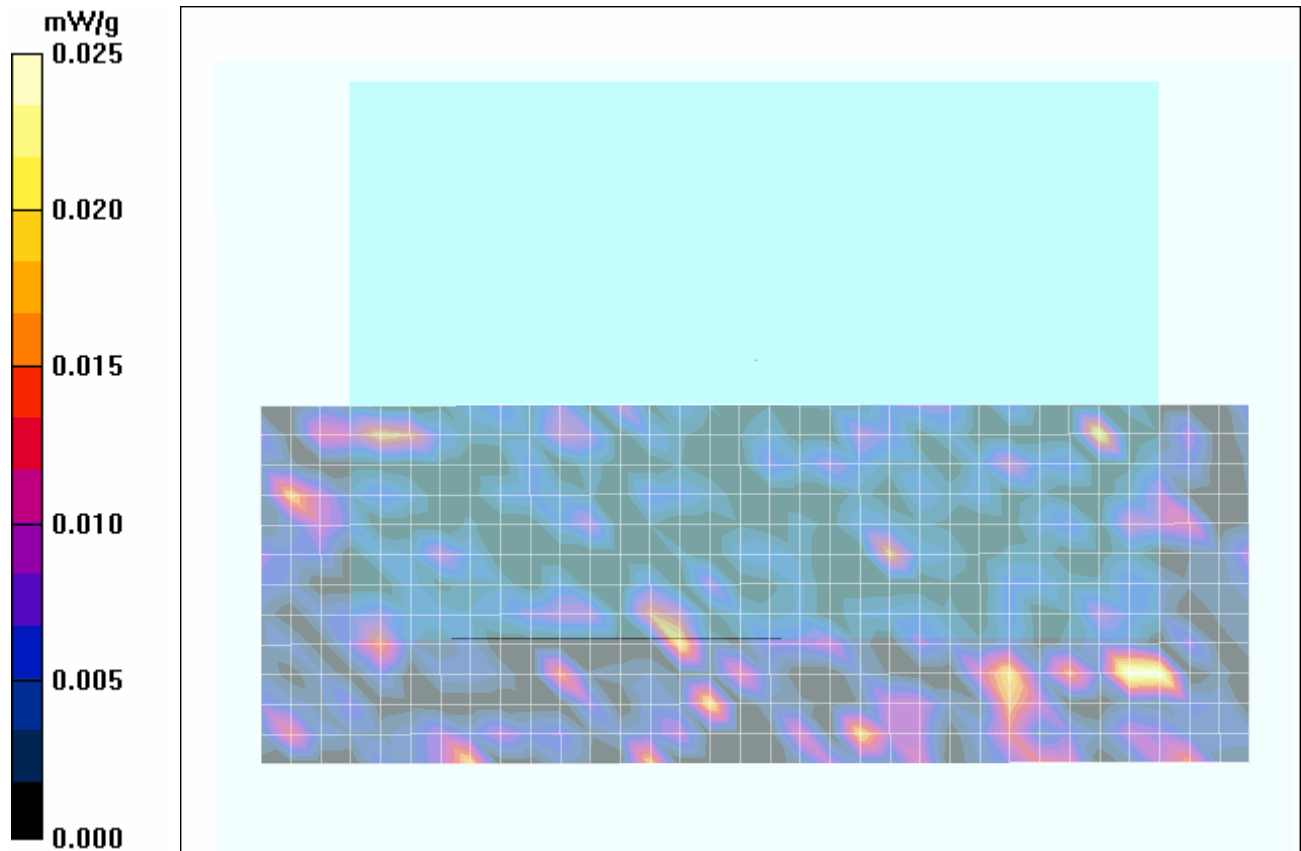
Power: 11.1V, 3900mAh Li-ion Battery
 Communication System: OFDM WLAN
 Frequency: 5785 MHz; Duty Cycle: 1:1.1
 RF Output Power: 17.5 dBm (Conducted)
 Medium: M5200-5800 Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.2 \text{ mho/m}$; $\epsilon_r = 45.5$; $\rho = 1000 \text{ kg/m}^3$


- Probe: EX3DV4 - SN3600; ConvF(4.14, 4.14, 4.14); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171



Body SAR - Bottom Side Touch Position of Tablet PC - MAIN Antenna (Chain B) - 5785 MHz

Area Scan (13x34x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.025 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5785 MHz - Channel 157 - AUX Antenna Adjacent Edge of Tablet PC

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY7200000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Power: 11.1V, 3900mAh Li-ion Battery

Communication System: OFDM WLAN

Frequency: 5785 MHz; Duty Cycle: 1:1.1

RF Output Power: 17.6 dBm (Conducted)

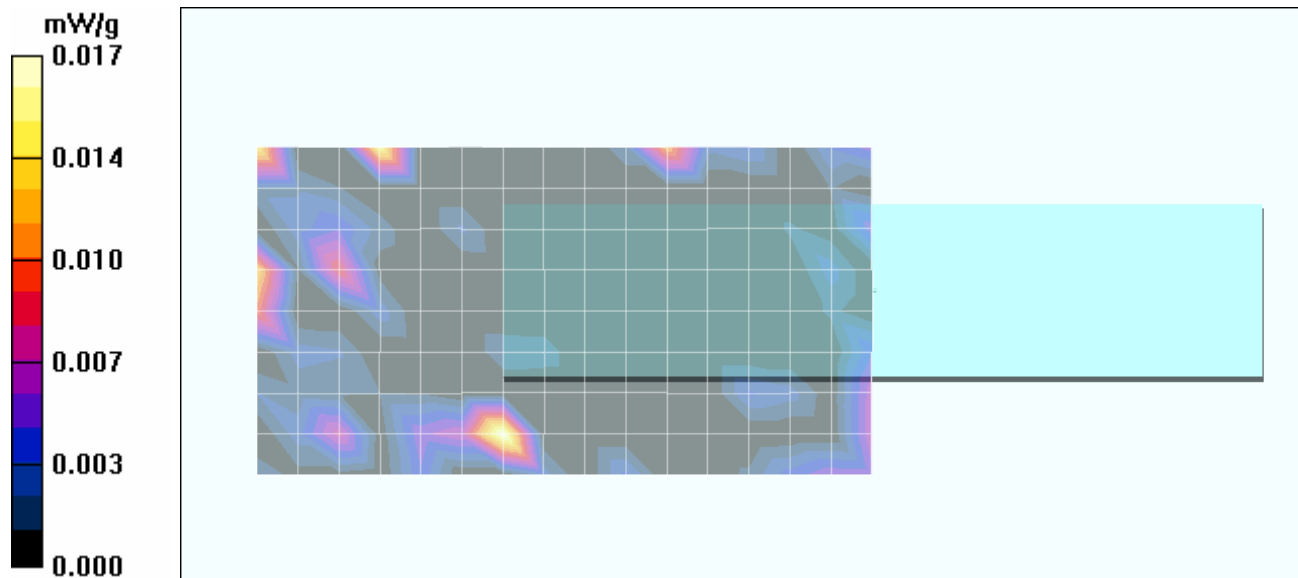
Medium: M5200-5800 Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.2 \text{ mho/m}$; $\epsilon_r = 45.5$; $\rho = 1000 \text{ kg/m}^3$


- Probe: EX3DV4 - SN3600; ConvF(4.14, 4.14, 4.14); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171



Body SAR - AUX Antenna Adjacent Edge Touch Position of Tablet PC - AUX Antenna (Chain A) - 5785 MHz

Area Scan (9x16x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.017 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

Body SAR - 802.11a - 6 Mbps - 5785 MHz - Channel 157 - MAIN Antenna Adjacent Edge of Tablet PC

DUT: General Dynamics Itronix Corporation; Type: IX-4965AGN WLAN in IX350 Tablet PC; Serial: SY7200000659

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Power: 11.1V, 3900mAh Li-ion Battery

Communication System: OFDM WLAN

Frequency: 5785 MHz; Duty Cycle: 1:1.1

RF Output Power: 17.5 dBm (Conducted)

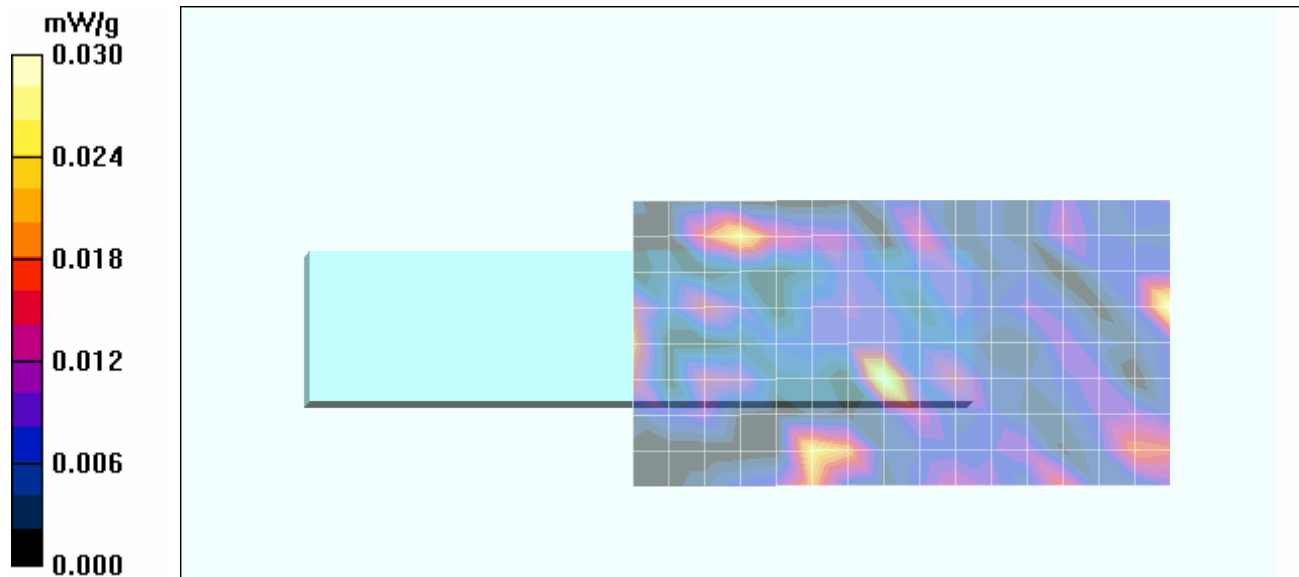
Medium: M5200-5800 Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.2 \text{ mho/m}$; $\epsilon_r = 45.5$; $\rho = 1000 \text{ kg/m}^3$


- Probe: EX3DV4 - SN3600; ConvF(4.14, 4.14, 4.14); Calibrated: 24/01/2007
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171



Body SAR - MAIN Antenna Adjacent Edge Touch Position of Tablet PC - MAIN Antenna (Chain B) - 5785 MHz

Area Scan (9x16x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.030 mW/g






| | | | | | |
|-------------------------|--|------------------|--|---------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |


Fluid Depth (>15cm)





| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

APPENDIX B - SYSTEM PERFORMANCE CHECK DATA

| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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| | | | | |
|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/06/2007

System Performance Check - 2450 MHz Dipole - MSL

DUT: Dipole 2450 MHz; Asset: 00025; Serial: 150; Validation: 06/08/2007

Ambient Temp: 22.2°C; Fluid Temp: 20.2°C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 2.01 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.31, 6.31, 6.31); Calibrated: 24/01/2007
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

2450 MHz Dipole - System Performance Check/Area Scan (6x10x1):

Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 21.3 mW/g

2450 MHz Dipole - System Performance Check/Zoom Scan (7x7x7)/Cube 0:

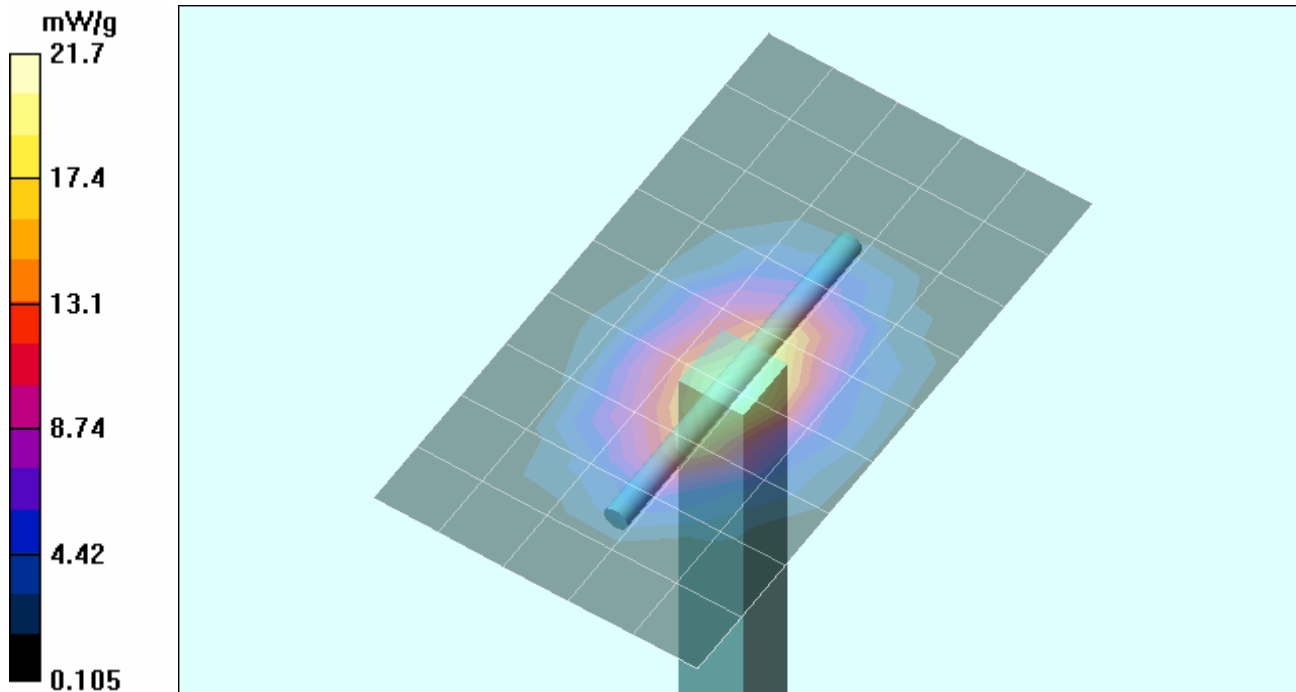
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 100.0 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 29.5 W/kg

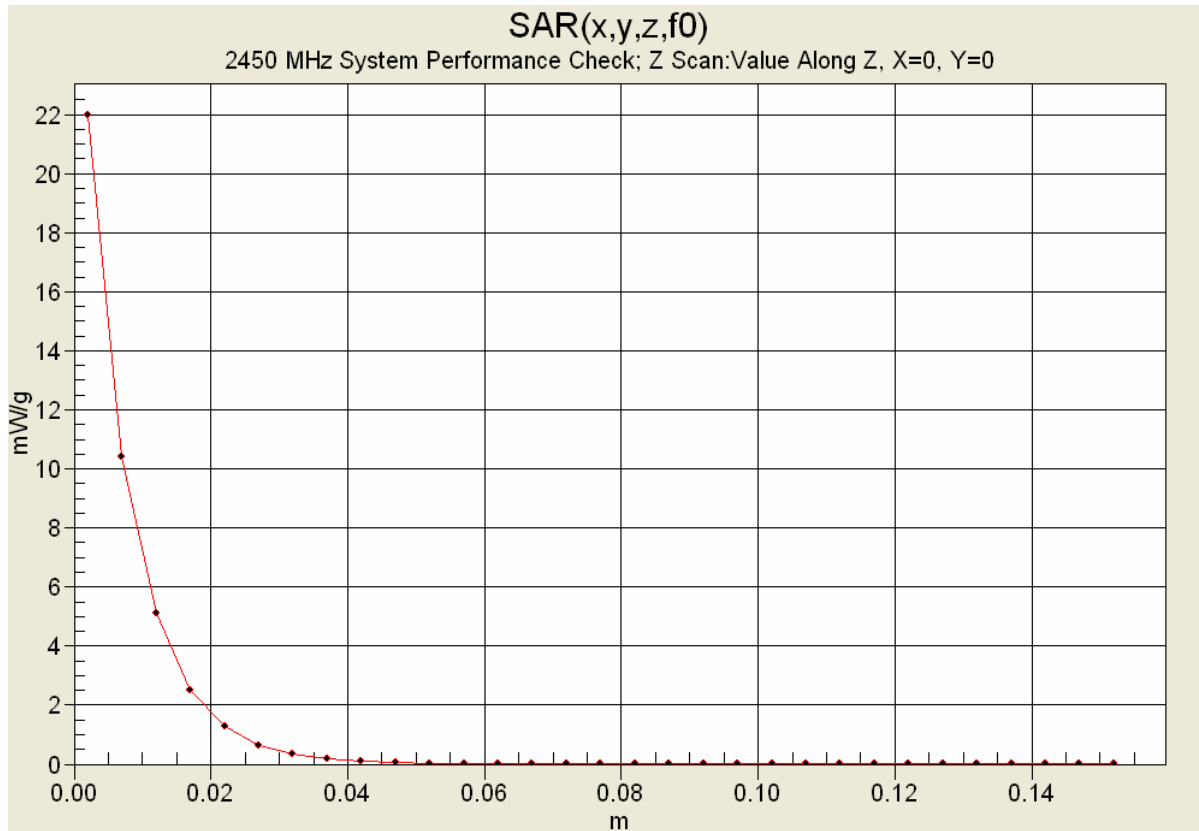
SAR(1 g) = 14.0 mW/g; SAR(10 g) = 6.24 mW/g



Maximum value of SAR (measured) = 21.7 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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Z-Axis Scan



| | | | | |
|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

System Performance Check - 5200 MHz Dipole - MSL

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: 1031; Validation: 05/18/2007

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: M5200-5800 Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 5.28 \text{ mho/m}$; $\epsilon_r = 45.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(4.1, 4.1, 4.1); Calibrated: 24/01/2007
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 10/07/2007
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

5200 MHz System Performance Check/Area Scan (9x13x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of SAR (measured) = 35.4 mW/g

5200 MHz System Performance Check/Zoom Scan (7x7x9)/Cube 0:

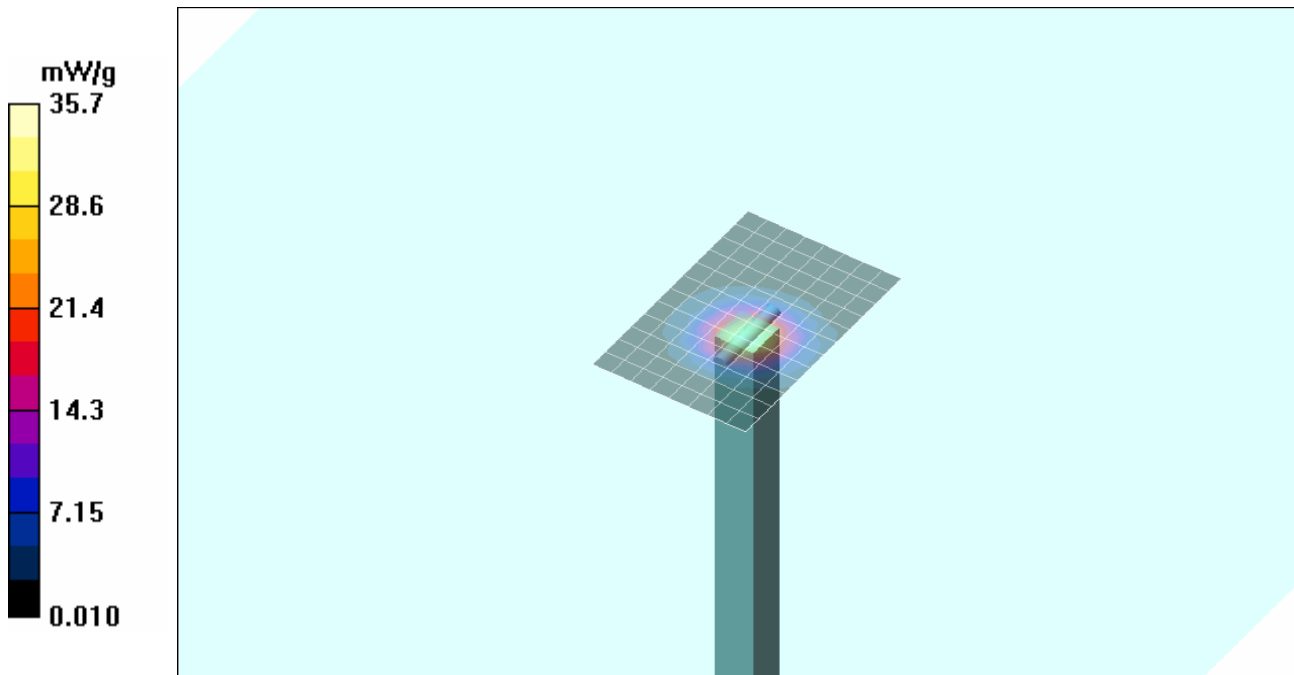
Measurement grid: dx=4mm, dy=4mm, dz=2.5mm


Reference Value = 51.8 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 74.2 W/kg

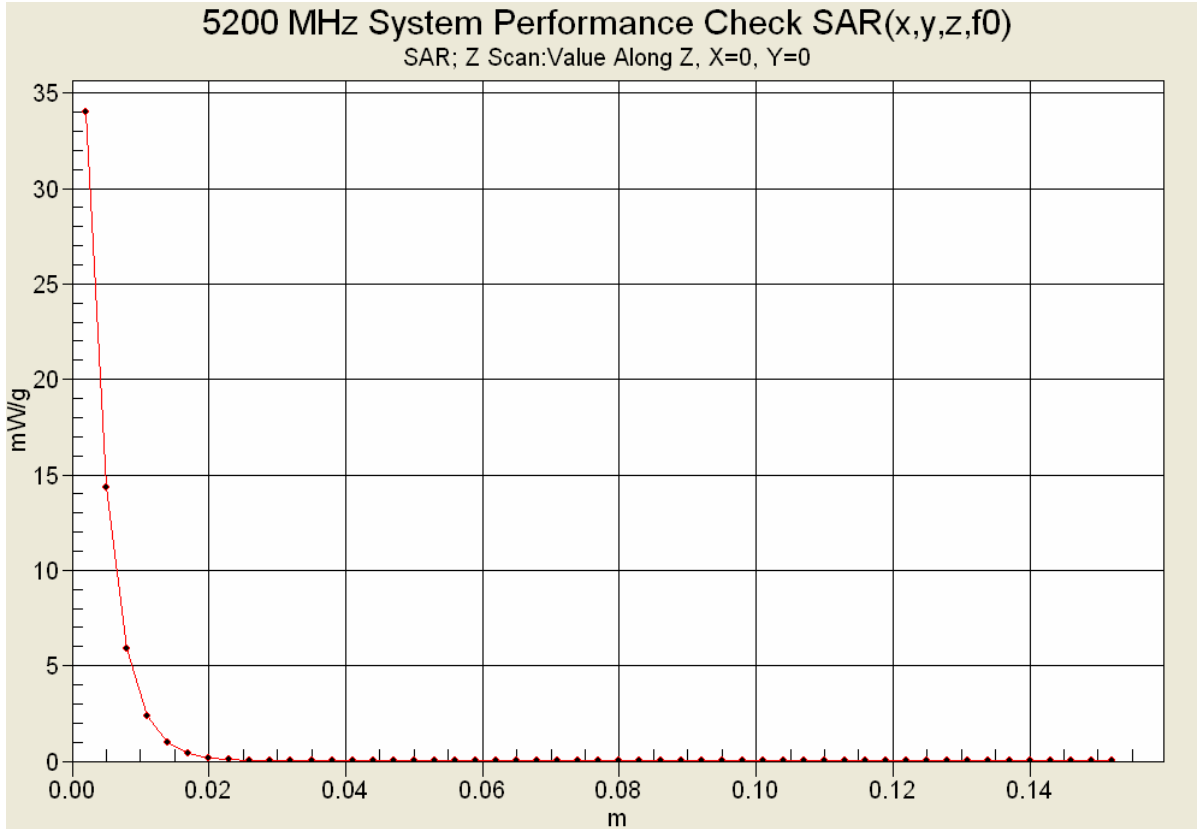
SAR(1 g) = 17.8 mW/g; SAR(10 g) = 5.02 mW/g



Maximum value of SAR (measured) = 35.7 mW/g



| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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Z-Axis Scan



| | | | | |
|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Date Tested: 11/02/2007

System Performance Check - 5800 MHz Dipole - MSL

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: 1031; Validation: 05/10/2007

Ambient Temp: 23.3°C; Fluid Temp: 22.0°C; Barometric Pressure: 101.0 kPa; Humidity: 33%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: M5200-5800 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.2 \text{ mho/m}$; $\epsilon_r = 45.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(4.14, 4.14, 4.14); Calibrated: 24/01/2007

- Sensor-Surface: 2 mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn353; Calibrated: 10/07/2007

- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01

- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

5800 MHz System Performance Check/Area Scan (9x13x1):

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$

Maximum value of SAR (measured) = 39.9 mW/g

5800 MHz System Performance Check/Zoom Scan (7x7x9)/Cube 0:

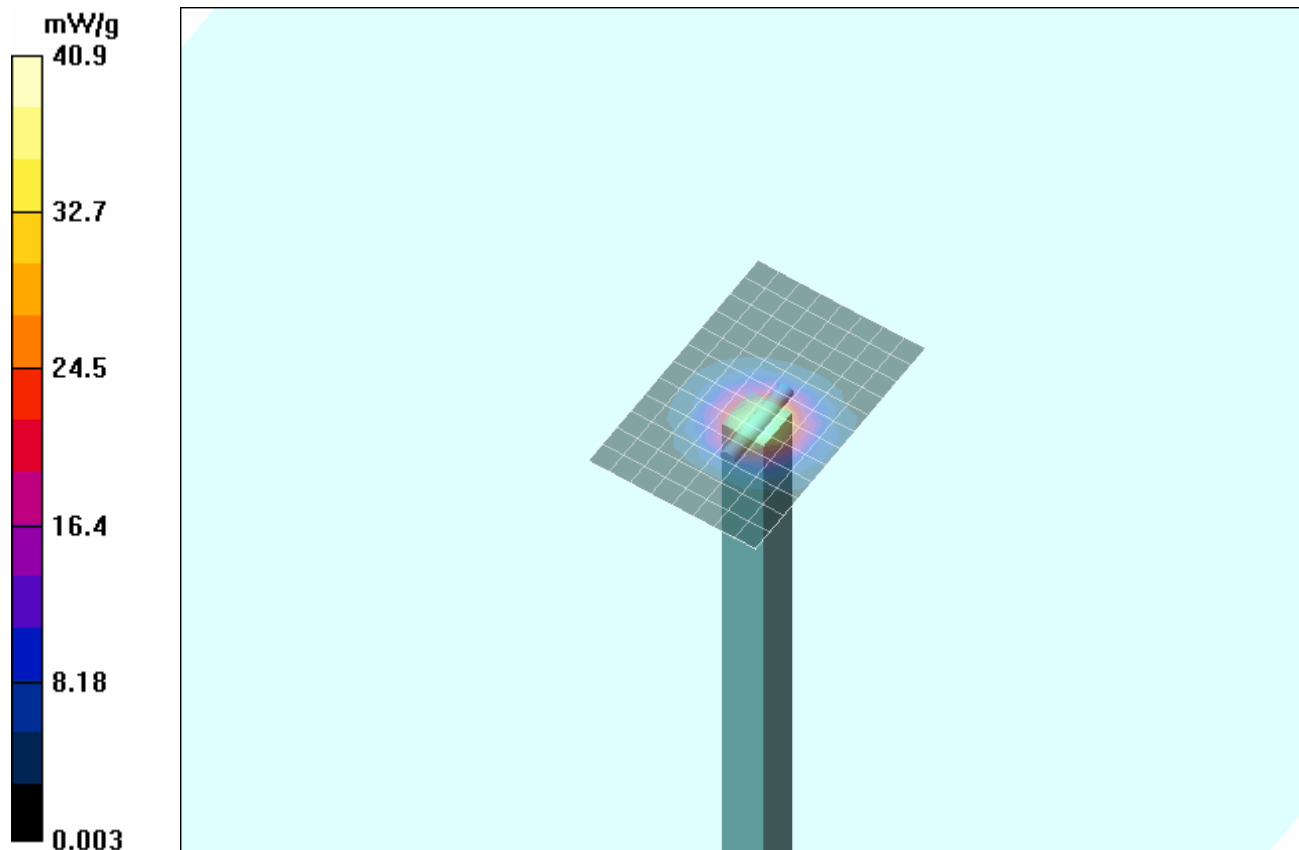
Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$


Reference Value = 72.1 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 87.0 W/kg

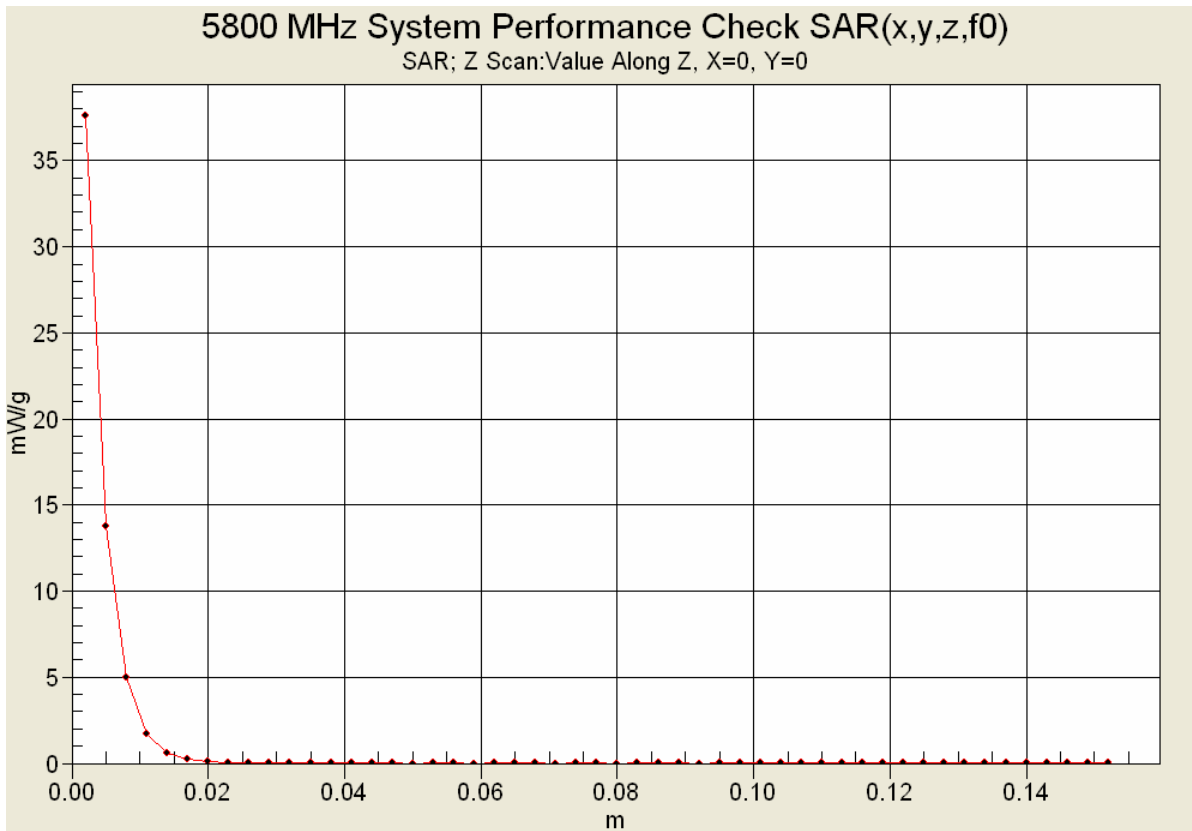
SAR(1 g) = 19.3 mW/g; SAR(10 g) = 5.35 mW/g



Maximum value of SAR (measured) = 40.9 mW/g




| | | | | | |
|-------------------------|--|------------------|--|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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Z-Axis Scan



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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS


| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

2450 MHz System Performance Check & DUT Evaluation (Body)

Celltech Labs Inc.
 Test Result for UIM Dielectric Parameter
 Tue 06/Nov/2007
 Frequency (GHz)
 FCC_eHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
 FCC_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
 FCC_eB FCC Limits for Body Epsilon
 FCC_sB FCC Limits for Body Sigma
 Test_e Epsilon of UIM
 Test_s Sigma of UIM

| Freq | FCC_eB | FCC_sB | Test_e | Test_s |
|--------|--------|--------|--------|--------|
| 2.3500 | 52.83 | 1.85 | 50.84 | 1.88 |
| 2.3600 | 52.82 | 1.86 | 50.85 | 1.89 |
| 2.3700 | 52.81 | 1.87 | 50.83 | 1.91 |
| 2.3800 | 52.79 | 1.88 | 50.78 | 1.92 |
| 2.3900 | 52.78 | 1.89 | 50.74 | 1.92 |
| 2.4000 | 52.77 | 1.90 | 50.79 | 1.94 |
| 2.4100 | 52.75 | 1.91 | 50.78 | 1.96 |
| 2.4200 | 52.74 | 1.92 | 50.66 | 1.97 |
| 2.4300 | 52.73 | 1.93 | 50.69 | 1.98 |
| 2.4400 | 52.71 | 1.94 | 50.61 | 2.00 |
| 2.4500 | 52.70 | 1.95 | 50.61 | 2.01 |
| 2.4600 | 52.69 | 1.96 | 50.57 | 2.02 |
| 2.4700 | 52.67 | 1.98 | 50.59 | 2.04 |
| 2.4800 | 52.66 | 1.99 | 50.53 | 2.05 |
| 2.4900 | 52.65 | 2.01 | 50.52 | 2.06 |
| 2.5000 | 52.64 | 2.02 | 50.44 | 2.07 |
| 2.5100 | 52.62 | 2.04 | 50.35 | 2.09 |
| 2.5200 | 52.61 | 2.05 | 50.39 | 2.10 |
| 2.5300 | 52.60 | 2.06 | 50.30 | 2.11 |
| 2.5400 | 52.59 | 2.08 | 50.27 | 2.13 |
| 2.5500 | 52.57 | 2.09 | 50.31 | 2.14 |


| | | | | | |
|-------------------------|--|------------------|---|---------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

5200 MHz System Performance Check & 5180 / 5260 MHz DUT Evaluation (Body)

Celltech Labs Inc.
 Test Result for UIM Dielectric Parameter
 Fri 02/Nov/2007
 Frequency (GHz)
 FCC_eHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
 FCC_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
 FCC_eB FCC Limits for Body Epsilon
 FCC_sB FCC Limits for Body Sigma
 Test_e Epsilon of UIM
 Test_s Sigma of UIM

| Freq | FCC_eB | FCC_sB | Test_e | Test_s |
|--------|--------|--------|--------|--------|
| 5.1000 | 49.15 | 5.18 | 45.28 | 5.13 |
| 5.1100 | 49.14 | 5.19 | 45.31 | 5.16 |
| 5.1200 | 49.12 | 5.21 | 45.20 | 5.15 |
| 5.1300 | 49.11 | 5.22 | 45.27 | 5.18 |
| 5.1400 | 49.10 | 5.23 | 45.12 | 5.17 |
| 5.1500 | 49.08 | 5.24 | 45.12 | 5.19 |
| 5.1600 | 49.07 | 5.25 | 44.99 | 5.23 |
| 5.1700 | 49.06 | 5.26 | 45.06 | 5.21 |
| 5.1800 | 49.04 | 5.28 | 45.02 | 5.25 |
| 5.1900 | 49.03 | 5.29 | 45.12 | 5.30 |
| 5.2000 | 49.01 | 5.30 | 45.11 | 5.28 |
| 5.2100 | 49.00 | 5.31 | 45.00 | 5.27 |
| 5.2200 | 48.99 | 5.32 | 45.03 | 5.30 |
| 5.2300 | 48.97 | 5.33 | 44.98 | 5.32 |
| 5.2400 | 48.96 | 5.35 | 44.99 | 5.34 |
| 5.2500 | 48.95 | 5.36 | 44.86 | 5.37 |
| 5.2600 | 48.93 | 5.37 | 44.90 | 5.39 |
| 5.2700 | 48.92 | 5.38 | 44.94 | 5.40 |
| 5.2800 | 48.91 | 5.39 | 44.81 | 5.40 |
| 5.2900 | 48.89 | 5.40 | 44.87 | 5.40 |
| 5.3000 | 48.88 | 5.42 | 44.75 | 5.44 |


| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

5800 MHz System Performance Check & DUT Evaluation (Body)


Celltech Labs Inc.
 Test Result for UIM Dielectric Parameter
 Fri 02/Nov/2007
 Frequency (GHz)
 FCC_eHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
 FCC_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
 FCC_eB FCC Limits for Body Epsilon
 FCC_sB FCC Limits for Body Sigma
 Test_e Epsilon of UIM
 Test_s Sigma of UIM



| Freq | FCC_eB | FCC_sB | Test_e | Test_s |
|--------|--------|--------|--------|--------|
| 5.7000 | 48.34 | 5.88 | 45.60 | 6.07 |
| 5.7100 | 48.32 | 5.89 | 45.48 | 6.08 |
| 5.7200 | 48.31 | 5.91 | 45.49 | 6.10 |
| 5.7300 | 48.30 | 5.92 | 45.54 | 6.08 |
| 5.7400 | 48.28 | 5.93 | 45.49 | 6.12 |
| 5.7500 | 48.27 | 5.94 | 45.45 | 6.16 |
| 5.7600 | 48.25 | 5.95 | 45.46 | 6.17 |
| 5.7700 | 48.24 | 5.96 | 45.46 | 6.19 |
| 5.7800 | 48.23 | 5.98 | 45.62 | 6.22 |
| 5.7900 | 48.21 | 5.99 | 45.47 | 6.19 |
| 5.8000 | 48.20 | 6.00 | 45.45 | 6.20 |
| 5.8100 | 48.19 | 6.01 | 45.52 | 6.27 |
| 5.8200 | 48.17 | 6.02 | 45.50 | 6.24 |
| 5.8300 | 48.16 | 6.04 | 45.38 | 6.31 |
| 5.8400 | 48.15 | 6.05 | 45.33 | 6.31 |
| 5.8500 | 48.13 | 6.06 | 45.37 | 6.29 |
| 5.8600 | 48.12 | 6.07 | 45.48 | 6.30 |
| 5.8700 | 48.10 | 6.08 | 45.31 | 6.35 |
| 5.8800 | 48.09 | 6.09 | 45.35 | 6.36 |
| 5.8900 | 48.08 | 6.11 | 45.39 | 6.37 |
| 5.9000 | 48.06 | 6.12 | 45.28 | 6.38 |

| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

APPENDIX D - MANUFACTURER'S TISSUE SIMULANT DATA SHEET

| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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| | | | | |
|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

Schmid & Partner Engineering AG

s p e a g

Zeughausstrasse 43, 8004 Zurich, Switzerland
 Phone +41 1 245 9700, Fax +41 1 245 9779
 info@speag.com, http://www.speag.com

Material Safety Data Sheet

1 Identification of the substance and of the manufacturer / origin

| | |
|-----------------------|--|
| Item | Head Tissue Simulation Liquid HSL5800 Muscle Tissue Simulation Liquid MSL 5800 |
| Type No | SL AAH 580, SL AAM 580 |
| Series No | N/A |
| Manufacturer / Origin | Schmid & Partner Engineering AG Zeughausstrasse 43 8004 Zürich Switzerland Phone +41 1 245 9700, Fax +41 1 245 9779, support@speag.com |

Use of the substance:

Liquid simulating physical parameters of Head or Muscle Tissue in the RF range to 6GHz.

2 Composition / Information on ingredients

The Item is composed of the following ingredients:

| | |
|--------------------|----------|
| Water | 64 - 78% |
| Mineral Oil | 11 - 18% |
| Emulsifiers | 9 - 15% |
| Additives and Salt | 2 - 3% |

Safety relevant ingredients according to EU directives:

| | | |
|------------------|--------|--|
| CAS-No 107-41-5 | < 4% | 2-Methyl-2,4-pentandiol (Hexylene Glycol): Xi irritant, R36/38 irritant for eyes and skin |
| CAS-No 770-35-4 | < 2% | 1-Phenoxy-2-propanol (Propylene Glycol Phenyl Ether): Xi irritant, R36 irritant for eyes |
| CAS-No 93-83-4 | < 2% | N,N-bis(2-Hydroxyethyl)oleamide: Xi irritant, R36/38 irritant for eyes and skin |
| CAS-No 9004-95-9 | < 0.5% | Polyethylene glycol cetyl ether: Xi irritant, R22 harmful if swallowed, R36/38 irritant for eyes and skin R50 Very toxic to aquatic organisms |

According to EU guidelines and Swiss rules, the product is not a dangerous mixture and therefore not required to be marked by symbols.

3 Hazards identification

Identification not required.


4 First aid measures



The product reacts slightly alkaline.

| | |
|---------------------|---|
| After skin contact: | Wash with fresh water and mild sope |
| After eye contact: | Rinse out with plenty of water for several minutes with the eyelid held open. Consult an ophthalmologist if necessary. |
| After ingestion: | Do not induce vomiting. Get medical attention. |

5 Fire-fighting measures

| | |
|--|--|
| Firefighting media | CO2, foam, dry chemical |
| Combustion products | Carbon oxides, nitrogen and traces of oxides of chlorine and sulfur, HCl |
| Due to the high water content, the liquid is self-extinguishing. | |

| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> November 02, 06, 2007 | <u>Test Report Serial No.</u> 102407KBC-T866-S15WB | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

6 Accidental release measures

Person-related precaution measures: wash with water and mild soap.
Environmental-protection measures: do not allow to enter sewerage system.
Procedures for cleaning / absorption: Use oil-binding agents., forward for disposal. Spills may cause slippery conditions.

7 Handling and storage

Handling: Keep in open container only for minimum required time in order to avoid water evaporation.
Storage: tightly closed, between >0 to 40°C. Avoid direct solar irradiation of the storage containers.

8 Exposure controls / personal protection

Protection measures are not generally required. For eye protection, industrial safety glasses are recommended.
Personal hygiene and clean working practices are sufficient.

9 Physical and chemical properties

Form: liquid
Colour: medium to dark brown, transparent to opaque
Odour: almost odourless / slightly oily
pH-Value: slightly alcalic
Boiling point: 100°C
Density: 1g/cm³

10 Stability and reactivity

Conditions to be avoided: heating above 40°C
The product contains water and is not compatible with strong oxidizers or magnesium.

11 Toxicological information

LD50 > 40 g/kg
Further data: the product should be handled with the care usual when dealing with chemicals

12 Ecological information

Contains mineral oil. Do not allow to enter waters, waste water, or soil!

13 Disposal considerations

Disposal is possible by splitting the mineral oil from the emulsion with absorbing agents, with salt or ultra-filtration. Dispose as other mineral oil containing products according to local regulations.
Product packing must be disposed of in compliance with respect national regulations.

14 Transport information


Not subject to transport regulations.



15 Regulatory information

No special labelling required.


16 Other information

Release date: 6.1.2005
Responsible: FB

| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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| | <u>Test Report Issue Date</u> March 20, 2008 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> General Population | |

APPENDIX H - PLANAR PHANTOM CERTIFICATE OF CONFORMITY

| | | | | | |
|-------------------------|--|------------------|---|------------|---|
| Company: | General Dynamics Itronix Corporation | FCC ID: | KBCIX-4965AGN | IC: | 1943A-4965AGN |
| Model(s): | IX350 | DUT Type: | Tablet PC with 802.11a/b/g/n WLAN & Co-located Bluetooth | |  |
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2378 Westlake Road
Kelowna, B.C. Canada
V1Z-2V2



Ph. # 250-769-6848
Fax # 250-769-6334
E-mail: barskiind@shaw.ca
Web: www.bcfiberglass.com

FIBERGLASS FABRICATORS

Certificate of Conformity

Item : Flat Planar Phantom Unit # 03-01
Date: June 16, 2003
Manufacturer: Barski Industries (1985 Ltd)

| Test | Requirement | Details |
|---------------------|--|---|
| Shape | Compliance to geometry according to drawing | Supplied CAD drawing |
| Material Thickness | Compliant with the requirements | 2mm +/- 0.2mm in measurement area |
| Material Parameters | Dielectric parameters for required frequencies Based on Dow Chemical technical data | 100 MHz-5 GHz Relative permittivity < 5 Loss Tangent < 0.05 |

Conformity

Based on the above information, we certify this product to be compliant to the requirements specified.

Signature: _____

A handwritten signature in black ink, appearing to read 'Daniel Chailier', is written over a horizontal line.

Daniel Chailier



Fiberglass Planar Phantom - Top View



Fiberglass Planar Phantom - Front View



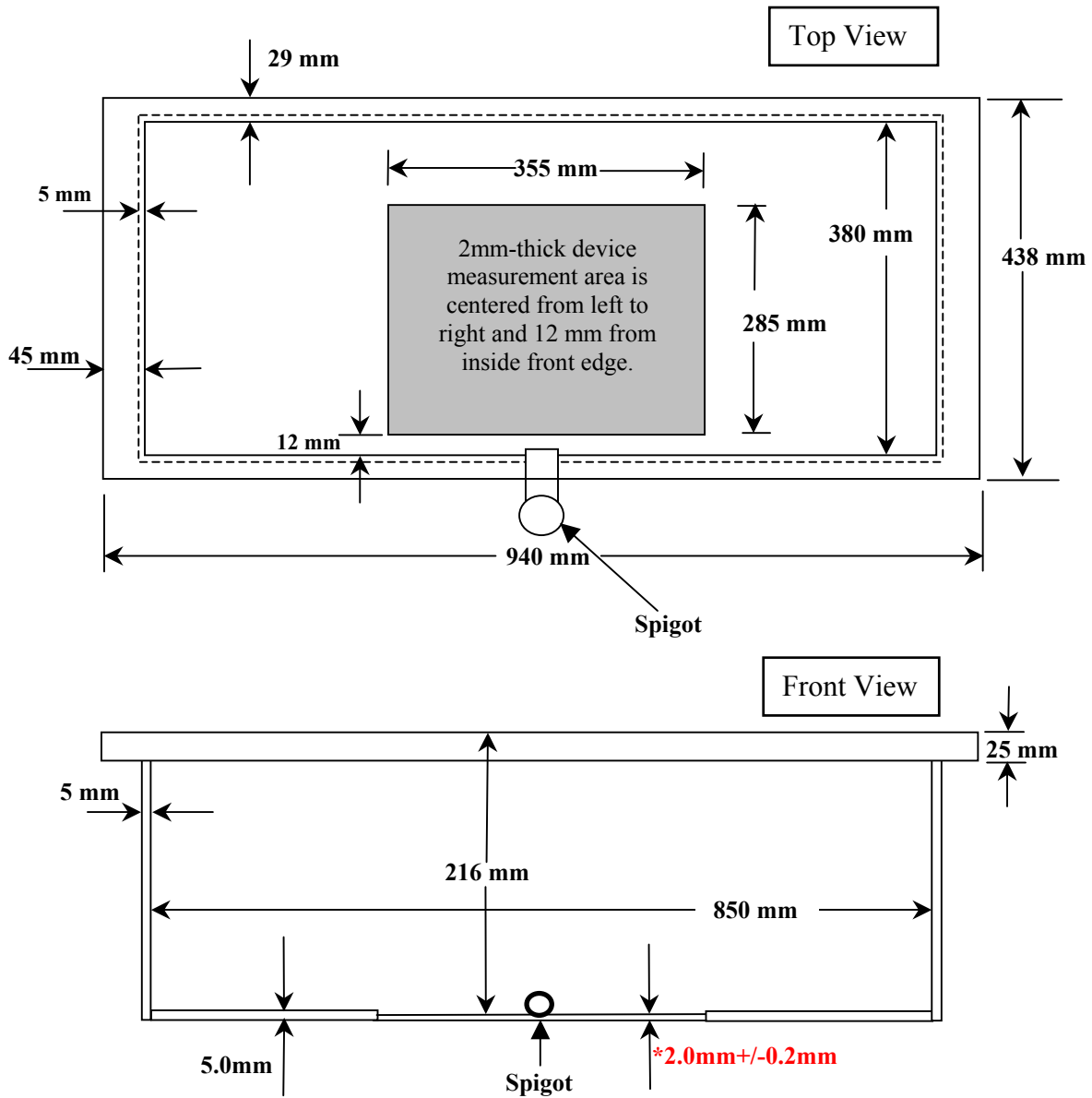
Fiberglass Planar Phantom - Back View



Fiberglass Planar Phantom - Bottom View

Dimensions of Fiberglass Planar Phantom

(Manufactured by Barski Industries Ltd. - Unit# 03-01)



**Note: Measurements that aren't repeated for the opposite sides are the same as the side measured.
This drawing is not to scale.**