### **EXHIBIT VI.**

# Supplemental Test Report

## New Certification of Previously Certified OEM Module

FCC ID: KBCIX260MPIRIM902

# IX260 with Integrated Compact Flash WLAN Co-located with a Part 90 transmitter

Certification Under Title 47 CFR, Part 15.247

Prepared On Behalf Of

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## **Supplemental Test Report**

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**Note:** Please refer to the original Certification exhibits for all of the other test report data for the following ITRONIX Corporation, Intentional Radiator referenced herein:

1.) FCC ID: KBCIX260MPI350 which is the IX260 with WLAN Compact Flash Card, Model: MPI-352 Series

Applicant: ITRONIX, Corporation FCC ID: KBCIX260MPIRIM902

#### EXHIBIT 6A TEST: CONDUCTED RF POWER OUTPUT

FCC ID: KBCIX260MPIRIM902

Applicant: ITRONIX, Corporation

Model: IX260 with MPI350 WLAN and RIM902M-2-0

Minimum Standard Specified: Part 15.247(b)(1) is 1 Watt for DTS

Test Results: The measured output power level shows compliance with the

above limit and the power granted for the OEM module.

Authorization Procedure: Part 2.1046

Maximum Conducted Power Output: 21.2 dBm

#### **Method of Measurement:**

1. The output power levels above had been preset during production for this model.

2. The peak output power was measured by Celltech with a Gigatronics 8652A Universal Power Meter (S/N: 1835272). The measured channels cover the low, middle and top of the operational frequency range previously approved for this Intentional Radiator of 2412 – 2462 MHz.

4. Both antenna ports were measured, the results below were the maximum level measured.

#### Tabular Results of Conducted RF Output Power and EIRP

| WLAN<br>Serial No:<br>VMS06180144 |              | Rangestar<br>Antenna<br>P/N 100929 |                  |                     |      |  |  |
|-----------------------------------|--------------|------------------------------------|------------------|---------------------|------|--|--|
| Frequency<br>GHz                  | Power<br>dBm | Cable loss                         | Ant. Gain<br>dBi | EIRP                |      |  |  |
| 2.412<br>2.437                    | 21.2<br>21.1 | -inc-<br>-inc-                     | 4.5<br>4.5       | <b>25.7</b><br>25.6 | *MAX |  |  |
| 2.462                             | 21.1         | -inc-                              | 4.5              | 25.6                |      |  |  |

The maximum WLAN EIRP is 25.7 dBm with the Rangestar Antenna, P/N 100929, peak antenna gain of 4.5 dBi.

Applicant: ITRONIX, Corporation FCC ID: KBCIX260MPIRIM902

#### **EXHIBIT 6G TEST: FIELD STRENGTH OF THREE FUNDAMENTAL OPERATING FREQUENCIES**

FCC ID: KBCIX260MPIRIM902

Applicant: ITRONIX, Corporation

Model: IX260 with MPI350 WLAN & RIM 902

Minimum Standard Specified: Part 15.247(c), 15.205 & 15.209(a)

Test Results: Equipment complies with standard

Authorization Procedure: Part 2.1053

Test Equipment Set Up: See Block Diagram in Exhibit 7

Test Frequencies WLAN: 2412, 2437, & 2462 MHz (2412 – 2462 MHz band)

## Field Strength For Low Mid and High Channel

| WLAN<br>Frequency in<br>GHz | Ant.<br>Vert/<br>Horz | Spectrum<br>Analyzer<br>Reading<br>dBuV | +<br>Ant<br>Factor | -<br>Amp<br>Gain | +<br>Cable<br>Loss | =<br>dBuV/m<br>@ 3 meters | or<br>uV/m<br>@ 3 meters |
|-----------------------------|-----------------------|---|--------------------|------------------|--------------------|---------------------------|--------------------------|
| Ch. 1 Low 2.412             | V                     | 83.33                                   | 28.37              | 0                | 1.33               | 113.03                    | 448229.05                |
| Ch. 6 Mid 2.437             | V                     | 86.67                                   | 28.37              | 0                | 1.33               | 116.37                    | 658415.42                |
| Ch.11 High 2.462            | V                     | 86.50                                   | 28.37              | 0                | 1.33               | 116.20                    | 645654.22                |

Measurements were made for both left and right antenna. The levels from the left antenna were found to be the highest and are reported above.

Applicant: ITRONIX, Corporation FCC ID: KBCIX260MPIRIM902

#### EXHIBIT 6G TEST: RADIATED HARMONICS AND SPURIOUS EMISSIONS

FCC ID: KBCIX260MPIRIM902

Applicant: ITRONIX, Corporation

Model: IX260 with MPI350 WLAN & RIM 902

Minimum Standard Specified: Part 15.247(c), 15.205 & 15.209(a)

Authorization Procedure: Part 2.1053

Test Equipment Set Up: See Block Diagram in Exhibit 7

| RADIATED HARMONIC AND SPURIOUS EMISSIONS & RESTRICTED BANDS                                   |                            |       |                              |                                |                         |                        |             |                                |                                     |        |
|---|----------------------------|-------|------------------------------|--------------------------------|-------------------------|------------------------|-------------|--------------------------------|-------------------------------------|--------|
| Frequency<br>GHz  | Max.<br>SA<br>Rdg.<br>dBu/ |       | Ant.<br>Vert.<br>or<br>Horz. | Peak or<br>Average<br>Detector | Antenna<br>Factor<br>dB | Cable & filter loss dB | Amp<br>Gain | Corrected<br>Reading<br>dBuV/m | Limit<br>74 Peak<br>54 Avg<br>dBu/V | uV/m   |
| Fo - 2.412  |                            |       |                              |                                |                         |                        |             |                                |                                     |        |
| 4.824   | 37.00                      | )     | V                            | Peak                           | 32.83                   | 3.95                   | 23.2        | 50.58                          | 74                                  | 338.06 |
| 4.824   | 24.00                      | )     | V                            | Average                        | 32.83                   | 3.95                   | 23.2        | 37.58                          | 54                                  | 75.68  |
| Fo - 2.437  |                            |       |                              |                                |                         |                        |             |                                |                                     |        |
| 4.874   | 36.67                      | 7     | V                            | Peak                           | 33.33                   | 3.95                   | 23.2        | 50.78                          | 74                                  | 344.74 |
| 4.874   | 23.67                      | 7     | V                            | Average                        | 33.33                   | 3.95                   | 23.2        | 37.75                          | 54                                  | 77.17  |
| Fo - 2.462  |                            |       |                              |                                |                         |                        |             |                                |                                     |        |
| 4.924   | 36.67                      | 7     | V                            | Peak                           | 33.33                   | 3.95                   | 23.2        | 50.75                          | 74                                  | 344.74 |
| 4.924   | 23.00                      | )     | V                            | Average                        | 33.33                   | 3.95                   | 23.2        | 37.08                          | 54                                  | 71.44  |
| Harmonic emissions on all three channels (low, mid & high) 3Fo – 10Fo at or below noise floor |                            |       |                              |                                |                         |                        |             |                                |                                     |        |
| Channel Frequency in GHz Harmonics observed Limit 74 dBuV/m Peak & 54 dBuV/m Average          |                            |       |                              |                                |                         |                        |             |                                |                                     |        |
| Ch. 1 - Low F   | <b>o</b> 2                 | 2.412 |                              |                                |                         |                        |             |                                |                                     |        |

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|------------------|---------------------|-------------------------------|---------------------------------------|
|                  |                     |                               | 54 dBuV/m Average                     |
| Ch. 1 - Low Fo   | 2.412               |                               |                                       |
| 3Fo - 10Fo       | 7.236 - 24.120      | None, At or < noise floor @3m | All emissions < 54 dBuV/m or 500 uV/m |
| Ch. 6 - Mid Fo   | 2.437               |                               |                                       |
| 3Fo – 10Fo       | 7.311 - 24.370      | None, At or < noise floor @3m | All emissions < 54 dBuV/m or 500 uV/m |
| Ch. 11 - High Fo | 2.462               |                               |                                       |
| 3Fo - 10Fo       | 7.386 - 24.620      | None, At or < noise floor @3m | All emissions < 54 dBuV/m or 500 uV/m |
|                  |                     |                               |                                       |

All harmonic and spurious emissions were below the limit. 2Fo and 3Fo were measurable during preliminary measurements at less than 1.0 meter with 100 kHz RBW only. Only 2 Fo was measureable at three meters with 1 MHz RBW and VBW. A HP preamplifier with over 20 dB of gain was used during the measurements of the harmonics. A high pass filter was used to reduce the fundamental signal and avoid the possibility of overloading the front end of the analyzer when using the preamp.

**Test Notes:** 

- 1.) All harmonics in the restricted bands listed in Part 15.205 are below the Part 15.209(a) limit.
- 2.) No peak emissions above 1 GHz are more than 20 dB above the average limit.
- 3.) Peak measurements made with 1 MHz RBW & VBW, Average made with 1 MHz RBW & 10 Hz VBW.
- 4.) One set of measurements was made for each antenna. The maximum levels reported above were emanating from the left antenna, with the levels marginally higher.