FDLE

Florida Department of
Law Enforcement

Gerald M. Bailey
Commissioner

Criminal Justice
Professionalism Program
Alcohol Testing Program

P.O. Box 1489
Tallahassee, Florida 32302
(850) 410-8600
(850) 410-7816 Fax
http://www.fdle.state.fl.us

MEMORANDUM

TO: Alcohol Testing Program Department Inspectors

FROM: Laura D. Barfield, Alcohol Testing Program Manager LDB

DATE: November 26, 2006

SUBJECT: CMI, Inc. Intoxilyzer 8000 Instrumentation Research Study – July 2006

Attached you will find the CMI, Inc. Intoxilyzer 8000 Instrumentation Research Study Report prepared on November 26, 2006. The report was generated using data obtained during the study conducted on July 6 and 7, 2006.

The results of this research study establish that the CMI, Inc. Intoxilyzer 8000 breath test instrumentation with the identified features/updates produces accurate and reliable breath alcohol test results, including correct and appropriate responses to alternative breath test sequence factors and situations. If you have any questions, please feel free to contact me.

LDB

Attachments

Florida Department of Law Enforcement
Alcohol Testing Program

CMI, Inc. Intoxilyzer 8000
Instrumentation Research Study Report

July 6 to 7, 2006
Orlando, Florida

CMI, Inc. Intoxilyzer 8000
Instrumentation Research Study Report

Purpose

The purpose of this research study is to assess the instrument responses of an Intoxilyzer 8000 breath test instrument to alternative breath test sequence factors and situations using software version 8100.26 and the following features/updates:

- Memory storage capacity for breath test results and inspection results,
- Shrink Wrap Cover on both ends of breath hose,
- Case Part Number(s) – Cover (Top) 440980 Rev B; Chassis (Bottom) 440988 Rev A,
- Room Temperature Vulcanization (RTV) applied to power supply coils,
- Ring Detect Capacitor – 0.47 Microfarad,
- FDLE/ATP Form 41 Department Inspection Report – Intoxilyzer 8000 August 2005,
- Magnetic Card Reader

Testing Location and Operating Conditions

Testing Location: Florida Department of Law Enforcement
Orlando Regional Operations Center
500 West Robinson Street
Orlando, Florida 32801

Operating Conditions: Indoors, 71 to 73^0 F

FDLE Personnel Present

Laura D. Barfield, Program Manager (Present for Part of the Evaluation)
Matthew E. Malhiot, Department Inspector
Dwite N. Hackney, Department Inspector
George L. Venturi, Department Inspector
Roger G. Skipper, Department Inspector
Donald P. Suereth, Department Inspector
Margaret M. Geddings, Department Inspector-In-Training (Observer)

Instrumentation Used

The following Intoxilyzer 8000 breath test instrument was provided on loan by the manufacturer, CMI, Inc.:

- **CMI, Inc. Intoxilyzer 8000, Serial Number 80-001173** - No shrink wrap cover on the ends of the breath hose, no room temperature vulcanization (RTV) applied to the power supply coils, case part number(s) cover (top) 440980 and chassis (bottom) 440988, ring detect capacitor – 0.047 Microfarad, 2MB memory storage capacity.
- **CMI, Inc. Intoxilyzer 8000, Serial Number 80-001175** – Shrink wrap cover on both ends of the breath hose, room temperature vulcanization (RTV) applied to the power supply coils, case part number(s) cover (top) 440980 Rev B and chassis (bottom) 440988 Rev A, ring detect capacitor – 0.47 Microfarad, 2MB memory storage capacity.
- **CMI, Inc. Intoxilyzer 8000, Serial Number 80-001181** – No shrink wrap cover on the ends of the breath hose, no room temperature vulcanization (RTV) applied to the power supply coils, case part number(s) cover (top) 440980 and chassis (bottom) 440988, ring detect capacitor – 0.047 Microfarad, 1MB memory storage capacity.

Instrumentation Description

- Make and Model Designation: CMI, Inc. Intoxilyzer 8000, listed on the US Department of Transportation Conforming Products List of Evidential Breath Measurement Devices.
- Method of Analysis: Non-dispersive infrared light absorption
- Software Version: 8100.26
- Description of Instrumentation: An infrared-based instrument designed for both mobile and stationary evidential breath alcohol testing.

Equipment and Supplies

Reference Sample Devices (Simulators)

All simulators were operated within 34 ± 0.2C and had air leak resistant seals. The make, model and serial number of each simulator is outlined in Appendix A.

Digital Thermometer

The make, model and serial number of the digital thermometer is outlined in Appendix A.

Digital Pressure Indicators

The make, model and serial number of the digital pressure indicators is outlined in Appendix A. Although this equipment was present during the evaluation, it was not used during any part of the evaluation.

External Printers

The make, model and serial number of each external printer is outlined in Appendix A.

Standards, Solutions, and Deionized Water

All alcohol reference solutions were analyzed by the Florida Department of Law Enforcement in accordance with Rule 11D-8.0035(2)(a), FAC. The dry gas standard was prepared and certified by Scott Specialty Gases, Inc. The results of the alcohol reference solution analyses and the certified concentration of the dry gas standard are outlined in Appendix B. Acetone Stock Solution, Lot Number 2006-D, and Mouth Alcohol Solution, Lot Numbers 2006-A and 2006-B, prepared and analyzed by the Florida Department of Law Enforcement were used for the acetone interference tests and the mouth alcohol tests, respectively. Deionized water obtained from the FDLE Tallahassee Regional Operations Center Laboratory was analyzed by gas chromatography prior to the evaluation.

Magnetic Card Reader Dongle

A device provided by CMI, Inc. which, when plugged into the Intoxilyzer 8000, electronically transmits commands to the Magnetic Card Reader

COBRA and Laptop Computer (Serial Number D1HMK11)

Software program used to upload and download information to and from the Intoxilyzer 8000 using either a phone line or a laptop computer and a database program used to store the uploaded information.

Other Supplies

All other supplies and equipment used were commercially available and compatible with this type of instrumentation (printer tape, mouthpieces, tubing, office supplies, etc.).

Procedures

The following breath test sequences were conducted using a 110 volt AC power source (wall outlet), in accordance with FDLE/ ATP Form 37 Operational Procedures – Intoxilyzer 8000 August 2005, to assess instrument messages and responses. Prior to conducting this research study, all Intoxilyzer 8000 instrumentation had FDLE/ATP Form 41 Department Inspection Report – Intoxilyzer 8000 August 2005 electronically installed using COBRA and a laptop computer and all Intoxilyzer 8000 instrumentation had the magnetic card readers electronically updated using a

Dongle provided by CMI, Inc. All breath test sequences were conducted with the display results and display volume turned off. All breath samples, when provided, were submitted through the breath tube. All results were recorded using an external printer.

1. Standard Breath Test Sequence.
   Use a 0.20 g/210L simulator to provide the first breath sample.
   Use a 0.20 g/210L simulator to provide a second breath sample, if prompted.
2. Breath Test Sequence Evaluating RFI Detection During First Breath Sample.
   Use a 0.20 g/210L simulator to provide the first breath sample and key a hand-held radio transmitter while providing this breath sample.
3. Breath Test Sequence Evaluating RFI Detection During Second Breath Sample.
   Use a 0.20 g/210L simulator to provide the first breath sample.
   Use a 0.20 g/210L simulator to provide a second breath sample, if prompted, and key a hand-held radio transmitter while providing this breath sample.
4. Breath Test Sequence Evaluating .020 Agreement.
   Use a 0.05 g/210L simulator to provide the first breath sample.
   Use a 0.08 g/210L simulator to provide a second breath sample, if prompted.
   Use a 0.20 g/210L simulator to provide a third breath sample, if prompted.
5. Breath Test Sequence Evaluating Insufficient Breath Volume During Second Breath Sample.
   Use a 0.20 g/210L simulator to provide the first breath sample.
   Use a 0.20 g/210L simulator to provide a second breath sample for approximately two (2) seconds, if prompted.
   Use a 0.20 g/210L simulator to provide a third breath sample, if prompted.
6. Breath Test Sequence Evaluating Insufficient Breath Volume During First Breath Sample.
   Use a 0.20 g/210L simulator to provide the first breath sample for approximately two (2) seconds.
   Use a 0.20 g/210L simulator to provide a second breath sample, if prompted.
   Use a 0.20 g/210L simulator to provide a third breath sample, if prompted.
7. Breath Test Sequence Evaluating Insufficient Breath Volume During First And Second Breath Samples.
   Use a 0.20 g/210L simulator to provide the first breath sample for approximately two (2) seconds.
   Use a 0.20 g/210L simulator to provide a second breath sample for approximately two (2) seconds, if prompted.
8. Breath Test Sequence Evaluating Decreasing Slope Detection During Second Breath Sample.
   Use a 0.20 g/210L simulator to provide the first breath sample.
   Rinse mouth with mouth alcohol solution and provide a second breath sample, if prompted.
9. Breath Test Sequence Evaluating Decreasing Slope Detection During First Breath Sample.
   Rinse mouth with mouth alcohol solution and provide the first breath sample.
10. Breath Test Sequence Evaluating No Second Breath Sample.
    Use a 0.20 g/210L simulator to provide the first breath sample.
    Do not provide a second breath sample, if prompted.
    Use a 0.20 g/210L simulator to provide a breath sample during a third breath sample prompt.
11. Breath Test Sequence Evaluating No First Breath Sample.
    Do not provide a breath sample during the first breath sample prompt.
    Use a 0.20 g/210L simulator to provide a breath sample during a second breath sample prompt.
    Use a 0.20 g/210L simulator to provide another breath sample during a third breath sample prompt.
12. Breath Test Sequence Evaluating No Breath Samples.
    Do not provide a breath sample during the first breath sample prompt.
    Do not provide a breath sample during a second breath sample prompt.
13. Breath Test Sequence Evaluating First Breath Sample At An Improper Time.
    Use a 0.20 g/210L simulator to provide the first breath sample before being prompted.
14. Breath Test Sequence Evaluating Second Breath Sample At An Improper Time.

Use a 0.20 g/210L simulator to provide the first breath sample.
Use a 0.20 g/210L simulator to provide a second breath sample before being prompted.

15. Breath Test Sequence Evaluating Detection Of Acetone Interferent During First Breath Sample.
Add 3 mL acetone stock solution to a 0.08 g/210L simulator and use this simulator to provide the first breath sample.

16. Breath Test Sequence Evaluating Detection Of Acetone Interferent During Second Breath Sample.
Use a 0.20 g/210L simulator to provide the first breath sample.
Add 3 mL acetone stock solution to a 0.08 g/210L simulator and use this simulator to provide a second breath sample, if prompted.

17. Breath Test Sequence Evaluating Second Control Sample Outside Tolerance.
Connect a 0.08 g/210L dry gas standard to the instrument.
Disconnect the dry gas standard after the first control sample result.
Use a 0.20 g/210L simulator to provide the first breath sample.
Use a 0.20 g/210L simulator to provide a second breath sample, if prompted.

Analytical Results

Correct and appropriate instrument responses were recorded for each testing sequence conducted, including prompting additional breath samples when applicable. All results are outlined in Appendix C-1, Appendix C-2 and Appendix C-3.

Conclusion

This research study establishes that the CMI, Inc. Intoxilyzer 8000 instrumentation, with software version 8100.26 and the features/updates listed above produces accurate and reliable breath alcohol test results, including correct and appropriate responses to alternative breath test sequence factors and situations.

APPENDIX A

External Equipment

Reference Sample Devices (Simulators)

Make	Model	Serial Number
Guth	10-4D	SD1015
Guth	10-4D	SD1065
Guth	10-4D	SD1016
Guth	210021	DR1280
Guth	210021	DR1279
Guth	34C	G2883
Guth	34C	G2840
Guth	10-4D	SD1011
Guth	10-4D	SD1018
Guth	10-4D	SD1022
Repco Marketing	3402-2K	2235
Repco Marketing	3402-2K	2236
Repco Marketing	3402-2K	2237
Repco Marketing	3402-2K	2238
Repco Marketing	3402-2K	2239

Digital Thermometers

Make	Model	Serial Number
Ertco-Eutechnics	4400	300505
Ertco-Eutechnics	4400	139000-45
Ertco-Eutechnics	4400	300948

Digital Pressure Indicators

Make	Model	Serial Number
Druck	DPI705	70530793
Druck	DPI705	70526932

External Printers

Make	Model	Serial Number
Samsung	ML1750	BAAX303958M
Samsung	ML1750	BAAX303716R

APPENDIX B

Standards

Alcohol Reference Solution

	0.05 g/210L (g/100mL)	0.08 g/210L (g/100mL)	0.20 g/210L (g/100mL)
Source	Alcohol Countermeasure Systems, Inc.	Alcohol Countermeasure Systems, Inc.	Alcohol Countermeasure Systems, Inc.
Lot Number	200509A	200509B	200509C
Manufacture Date	9/22/2005	9/22/2005	9/22/2005
Expiration Date	9/22/2007	9/22/2007	9/22/2007
Approval Date	11/17/2005	11/17/2005	11/17/2005
Target Concentration (g/100mL)	0.0605	0.0968	0.2420
Acceptable Range (g/100mL)	0.0586 to 0.0623	0.0938 to 0.0997	0.2347 to 0.2492
1	0.0604	0.0973	0.2457
2	0.0598	0.0976	0.2459
3	0.0604	0.0978	0.2473
4	0.0603	0.0987	0.2444
5	0.0600	0.0982	0.2456
6	0.0601	0.0972	0.2446
7	0.0603	0.0972	0.2456
8	0.0604	0.0980	0.2459
9	0.0599	0.0981	0.2462
10	0.0595	0.0976	0.2456
11	0.0600	0.0971	0.2464
12	0.0601	0.0973	0.2458
13	0.0594	0.0972	0.2451
14	0.0595	0.0968	0.2448
15	0.0596	0.0977	0.2455
16	0.0609	0.0972	0.2453
17	0.0593	0.0979	0.2467
18	0.0600	0.0970	0.2461
19	0.0596	0.0972	0.2460
20	0.0598	0.0973	0.2474
Mean	0.0600	0.0975	0.2458
Std Dev	0.0004	0.0005	0.0008
Minimum	0.0593	0.0968	0.2444
Maximum	0.0609	0.0987	0.2474

Dry Gas Standard

Manufacturer	Lot Number	Expiration Date	Certified Concentration
Scott Specialty Gases, Inc.	518702I	July 8, 2007	0.080 g/210L
Scott Specialty Gases, Inc.	615802I	June 9, 2008	0.080 g/210L

APPENDIX C-1

Analytical Results

Intoxilyzer 8000 S.N. 80-001173

Procedure #1	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.200
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.200
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK

Procedure #2	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	RFI*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*RFI Detect	

Procedure #3	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.201
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	RFI*
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK
*RFI Detect	

Procedure #4	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.052*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.083*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.200*
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK
*No .020 Agreement	

Procedure #5	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.200
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.199
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*Volume Not Met (0.147 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	

Procedure #6	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.201
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.199
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Volume Not Met (0.075 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	

APPENDIX C-1 (Continued)

Analytical Results

Intoxilyzer 8000 S.N. 80-001173

Procedure #7	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	VNM**
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK

*Volume Not Met (0.075 – Breath Sample Not Reliable to Determine Breath Alcohol Level)
**Volume Not Met (0.060 – Breath Sample Not Reliable to Determine Breath Alcohol Level)

Procedure #8	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.200
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	SNM*
Air Blank	0.000
Control Test	0.076
Air Blank	0.000
Diagnostics Check	OK

*Slope Not Met

Procedure #9	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	SNM*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK

*Slope Not Met

Procedure #10	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.076
Air Blank	0.000
Subject Sample #1	0.197
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	NSP*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.196
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK

*No Sample Provided

Procedure #11	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	NSP*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.201
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.202
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK

*No Sample Provided

Procedure #12	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	NSP*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	NSP*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK

*No Sample Provided

APPENDIX C-1 (Continued)

Analytical Results

Intoxilyzer 8000 S.N. 80-001173

Procedure #13	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	IPS*
Air Blank	0.000
*Improper Sample	

Procedure #14	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.202
Air Blank	0.000
Air Blank	IPS*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Improper Sample	

Procedure #15	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	INT*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Interferent Detect	

Procedure #16	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.203
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	INT*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Interferent Detect	

Procedure #17	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.202
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.201
Air Blank	0.000
Control Test	0.000*
Air Blank	0.000
*Control Outside Tolerance	

APPENDIX C-2

Analytical Results

Intoxilyzer 8000 S.N. 80-001175

Procedure #1	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.204
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.204
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK

Procedure #2	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	RFI*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*RFI Detect	

Procedure #3	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.202
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	RFI*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*RFI Detect	

Procedure #4	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.052*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.083*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.202*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*No .020 Agreement	

Procedure #5	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.203
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.200
Air Blank	0.000
Control Test	0.077
Air Blank	0.000
Diagnostics Check	OK
*Volume Not Met (0.202 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	

Procedure #6	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.200
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.200
Air Blank	0.000
Control Test	0.077
Air Blank	0.000
Diagnostics Check	OK
*Volume Not Met (0.199 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	

APPENDIX C-2 (Continued)

Analytical Results

Intoxilyzer 8000 S.N. 80-001175

Procedure #7	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	VNM**
Air Blank	0.000
Control Test	0.077
Air Blank	0.000
Diagnostics Check	OK

*Volume Not Met (0.189 – Breath Sample Not Reliable to Determine Breath Alcohol Level)
**Volume Not Met (0.197 – Breath Sample Not Reliable to Determine Breath Alcohol Level)

Procedure #8	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.198
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	SNM*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK

*Slope Not Met

Procedure #9	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.077
Air Blank	0.000
Subject Sample #1	SNM*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK

*Slope Not Met

Procedure #10	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.077
Air Blank	0.000
Subject Sample #1	0.197
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	NSP*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.197
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK

*No Sample Provided

Procedure #11	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	NSP*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.197
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.199
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK

*No Sample Provided

Procedure #12	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	NSP*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	NSP*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK

*No Sample Provided

APPENDIX C-2 (Continued)

Analytical Results

Intoxilyzer 8000 S.N. 80-001175

Procedure #13	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	IPS*
Air Blank	0.000
*Improper Sample	

Procedure #14	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.197
Air Blank	0.000
Air Blank	0.000
Reference	IPS*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Improper Sample	

Procedure #15	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	INT*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*Interferent Detect	

Procedure #16	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.196
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	INT*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*Interferent Detect	

Procedure #17	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.197
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.196
Air Blank	0.000
Control Test	0.000*
Air Blank	0.000
*Control Outside Tolerance	

APPENDIX C-3

Analytical Results

Intoxilyzer 8000 S.N. 80-001181

Procedure #1	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.199
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.198
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK

Procedure #2	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	RFI*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*RFI Detect	

Procedure #3	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.198
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	RFI*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*RFI Detect	

Procedure #4	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.051*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.080*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.197*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*No .020 Agreement	

Procedure #5	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.200
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.197
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*Volume Not Met (0.017 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	

Procedure #6	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.196
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.197
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*Volume Not Met (0.124 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	

APPENDIX C-3 (Continued)

Analytical Results
Intoxilyzer 8000 S.N. 80-001181

Procedure #7	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	VNM**
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*Volume Not Met (0.044 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	
**Volume Not Met (0.152 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	

Procedure #8	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.193
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	SNM*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*Slope Not Met	

Procedure #9	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	SNM*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Slope Not Met	

Procedure #10	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.195
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	NSP*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.193
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*No Sample Provided	

Procedure #11	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	NSP*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.195
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.196
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*No Sample Provided	

Procedure #12	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	NSP*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	NSP*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*No Sample Provided	

APPENDIX C-3 (Continued)

Analytical Results

Intoxilyzer 8000 S.N. 80-001181

Procedure #13	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Reference	IPS*
Air Blank	0.000
*Improper Sample	

Procedure #14	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.194
Air Blank	0.000
Air Blank	0.000
Reference	IPS*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Improper Sample	

Procedure #15	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	INT*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Interferent Detect	

Procedure #16	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Subject Sample #1	0.191
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	INT*
Air Blank	0.000
Control Test	0.078
Air Blank	0.000
Diagnostics Check	OK
*Interferent Detect	

Procedure #17	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.192
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.192
Air Blank	0.000
Control Test	0.000*
Air Blank	0.000
*Control Outside Tolerance	