FDLE

Florida Department of
Law Enforcement

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Alcohol Testing Program

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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 – January 2006 – Update

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Attached you will find an update to the CMI, Inc. Intoxilyzer 8000 Instrumentation Research Study Report – January 2006. Corrections were made to the Procedures section of this report. These corrections do not affect the conclusion of the study.

The results of this research study establish that the CMI, Inc. Intoxilyzer 8000 breath test instrumentation produces accurate and reliable breath alcohol test results, including correct and appropriate responses to alternative breath test sequence factors and situations, using both a 110 volt AC power source and a 12 volt DC power source.

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

January 4, 2006
Orlando, Florida

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 both a 110 volt AC power source and a 12 volt DC power source.

Testing Location and Operating Conditions

Testing Location: Florida Department of Law Enforcement
Orlando Regional Operations Center (Building and Parking Lot)
500 West Robinson Street
Orlando, Florida 32801

Operating Conditions: 65 to 71^0 F

FDLE Personnel Present

Laura D. Barfield, Program Manager
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

Instrumentation Used

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

- CMI, Inc. Intoxilyzer 8000, Serial Number 80-001181

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

Motor Vehicle

2005 Cheverolet Impala.

Reference Sample Devices (Simulators)

All reference sample devices (simulators) were operated within 34 $\pm$ 0.2C and had air leak resistant seals. The make, model and serial number of each simulator used is outlined in Appendix A.

Digital Thermometer

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

External Printer

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

Standards, Solutions, and Distilled/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 2005-D, and Mouth Alcohol Solution, Lot Number 2005-B, prepared

and analyzed by the Florida Department of Law Enforcement was used. Deionized water obtained from the FDLE Tallahassee Regional Operations Center Laboratory was analyzed by gas chromatography prior to the research study.

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 both a 110 volt AC power source (wall outlet) and a 12 volt DC motor vehicle power source, in accordance with FDLE/ ATP Form 37 Operational Procedures – Intoxilyzer 8000 March 2004, to assess instrument messages and responses. The motor vehicle had its engine both on and off at different times. All results were recorded using the internal printer, and were later recalled and recorded using an external printer. 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.

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 First Control Sample Outside Tolerance.
    Connect a 0.10 g/210L dry gas standard to the instrument.
    Use a 0.20 g/210L simulator to provide breath samples, if prompted.
18. 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 with each power source used, including prompting additional breath samples when applicable. All results are outlined in Appendix C-1 and Appendix C-2.

Conclusion

This research study establishes that the CMI, Inc. Intoxilyzer 8000 instrumentation produces accurate and reliable breath alcohol test results, including correct and appropriate responses to alternative breath test sequence factors and situations, using the above power sources.

APPENDIX A

External Equipment

Reference Sample Devices (Simulators)

Make	Model	Serial Number
Guth	10-4D	SD1010
Guth	10-4D	SD1013
Guth	10-4D	SD1020
Guth	10-4D	SD1014
Guth	34C	G11621

Digital Thermometers

Make	Model	Serial Number
Ertco-Eutechnics	4400	300504

External Printers

Make	Model	Serial Number
Samsung	ML1750	BAAX303958M

APPENDIX B

Standards

Alcohol Reference Solution

	0.050 g/210L (g/100mL)	0.080 g/210L (g/100mL)	0.200 g/210L (g/100mL)
Source	Alcohol Countermeasure Systems, Inc.	Alcohol Countermeasure Systems, Inc.	Alcohol Countermeasure Systems, Inc.
Lot Number	200504C	200504D	200205C
Manufacture Date	4/21/2005	4/21/2005	5/5/2005
Expiration Date	4/21/2007	4/21/2007	5/5/2007
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	0.0598	0.0964	0.2468
2	0.0597	0.0967	0.2479
3	0.0601	0.0961	0.2485
4	0.0601	0.0963	0.2468
5	0.0598	0.0964	0.2474
6	0.0596	0.0971	0.2471
7	0.0604	0.0965	0.2482
8	0.0602	0.0969	0.2472
9	0.0599	0.0965	0.2480
10	0.0599	0.0967	0.2482
11	0.0598	0.0965	0.2472
12	0.0602	0.0963	0.2476
13	0.0602	0.0963	0.2483
14	0.0602	0.0972	0.2478
15	0.0602	0.0967	0.2479
16	0.0595	0.0971	0.2477
17	0.0602	0.0967	0.2489
18	0.0594	0.0967	0.2472
19	0.0593	0.0970	0.2476
20	0.0598	0.0970	0.2465
Mean	**0.0599**	**0.0967**	**0.2476**
Std Dev	**0.0003**	**0.0003**	**0.0006**
Minimum	**0.0593**	**0.0961**	**0.2465**
Maximum	**0.0604**	**0.0972**	**0.2489**

Dry Gas Standard

Manufacturer	Lot Number	Expiration Date	Certified Concentration
Scott Specialty Gases, Inc.	525202I	September 14, 2007	0.080 g/210L

APPENDIX C-1

Analytical Results
110 Volt AC Power Source Analyses
Intoxilyzer 8000 S.N. 80-001181

110 Volt Power Procedure #1	
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	0.197
Air Blank	0.000
Control Test	0.081
Air Blank	0.000
Diagnostics Check	OK

110 Volt Power Procedure #2	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
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	

110 Volt Power Procedure #3	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	0.200
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	RFI*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*RFI Detect	

110 Volt Power Procedure #4	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.053*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.082*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.201*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*No .020 Agreement	

110 Volt Power Procedure #5	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.204
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.205
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Volume Not Met (0.100 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	

110 Volt Power Procedure #6	
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	0.207
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.208
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Volume Not Met (0.151 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	

110 Volt Power Procedure #7	
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	VNM**
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Volume Not Met (0.159 – Breath Sample Not Reliable to Determine Breath Alcohol Level) **Volume Not Met (0.106 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	

110 Volt Power Procedure #8	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.209
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	SNM*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*Slope Not Met	

110 Volt Power Procedure #9	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	SNM*
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK
*Slope Not Met	

110 Volt Power Procedure #10	
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	NSP*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.202
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK
*No Sample Provided	

110 Volt Power Procedure #11	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	NSP*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.199
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.205
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK
*No Sample Provided	

110 Volt Power Procedure #12	
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	NSP*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*No Sample Provided	

110 Volt Power 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	

110 Volt Power Procedure #14	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	0.203
Air Blank	0.000
Air Blank	IPS*
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK
*Improper Sample	

110 Volt Power Procedure #15	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	INT*
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK
*Interferent Detect	

110 Volt Power Procedure #16	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
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	0.079
Air Blank	0.000
Diagnostics Check	OK
*Interferent Detect	

110 Volt Power Procedure #17	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.103*
Air Blank	0.000
*Control Outside Tolerance	

110 Volt Power Procedure #18	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	0.195
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.198
Air Blank	0.000
Control Test	0.000*
Air Blank	0.000
*Control Outside Tolerance	

APPENDIX C-2

Analytical Results
12 Volt DC Power Source Analyses
Intoxilyzer 8000 S.N. 80-001181

12 Volt Power Procedure #1

Test	g/210L
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	0.195
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.193
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK

12 Volt Power Procedure #2

Test	g/210L
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	RFI*
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK

*RFI Detect

12 Volt Power Procedure #3

Test	g/210L
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	0.200
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	RFI*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK

*RFI Detect

12 Volt Power Procedure #4

Test	g/210L
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	0.053*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.082*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.195*
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK

*No .020 Agreement

12 Volt Power Procedure #5

Test	g/210L
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	0.191
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.190
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK

*Volume Not Met (0.164 – Breath Sample Not Reliable to Determine Breath Alcohol Level)

12 Volt Power Procedure #6

Test	g/210L
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.076
Air Blank	0.000
Subject Sample #1	VNM*
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.193
Air Blank	0.000
Air Blank	0.000
Subject Sample #3	0.191
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK

*Volume Not Met (0.055 – Breath Sample Not Reliable to Determine Breath Alcohol Level)

12 Volt Power 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	0.078
Air Blank	0.000
Diagnostics Check	OK
*Volume Not Met (0.000 – Breath Sample Not Reliable to Determine Breath Alcohol Level) **Volume Not Met (0.000 – Breath Sample Not Reliable to Determine Breath Alcohol Level)	

12 Volt Power Procedure #8	
Test	g/210L
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
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	0.080
Air Blank	0.000
Diagnostics Check	OK
*Slope Not Met	

12 Volt Power Procedure #9	
Test	g/210L
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	SNM*
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK
*Slope Not Met	

12 Volt Power Procedure #10	
Test	g/210L
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
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	0.196
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK
*No Sample Provided	

12 Volt Power Procedure #11	
Test	g/210L
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
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	0.195
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Diagnostics Check	OK
*No Sample Provided	

12 Volt Power Procedure #12	
Test	g/210L
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
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	

12 Volt Power Procedure #13	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	IPS*
Air Blank	0.000
*Improper Sample	

12 Volt Power Procedure #14	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.079
Air Blank	0.000
Subject Sample #1	0.191
Air Blank	0.000
Air Blank	0.000
Reference	IPS*
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK
*Improper Sample	

12 Volt Power 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	

12 Volt Power Procedure #16	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	0.193
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	INT*
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Diagnostics Check	OK
*Interferent Detect	

12 Volt Power Procedure #17	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.103*
Air Blank	0.000
*Control Outside Tolerance	

12 Volt Power Procedure #18	
Test	**g/210L**
Diagnostics Check	OK
Air Blank	0.000
Control Test	0.080
Air Blank	0.000
Subject Sample #1	0.194
Air Blank	0.000
Air Blank	0.000
Subject Sample #2	0.193
Air Blank	0.000
Control Test	0.000*
Air Blank	0.000
*Control Outside Tolerance	