



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY
A Nationally Accredited Laboratory

737 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010484
DATE CERTIFICATION METHOD PERFORMED: March 30, 2015
DATE RECERTIFICATION DUE: September 26, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L 0.150 ± 0.008 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.008 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

[Signature]
Timmy L. Neece, Jr.
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 2nd day of April, 2015 by Timmy L. Neece, Jr.

[Signature]
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018

[Notary Seal]
Ciera N. Boxley
Notary Public - ID 7364173
Commonwealth of VA
My Com. Exps. 08/31/2018

DBH  
TLW

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
3/30/2014 To 3/30/2015**

**Instrument Serial Number: 010484**

**As of 30-Mar-15**

<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
30-Mar-15	30-Mar-15	DBH (21250)	CERTIFIED.
05-Jan-15	29-Sep-14	HMS (18910)	REPLACED UPS BACK-UP BATTERY.
29-Sep-14	29-Sep-14	HMS (18910)	CERTIFIED
12-Aug-14	10-Apr-14	HMS (18910)	REPLACED DRY GAS STANDARD, REPLACED PRINTER RIBBON.
10-Apr-14	10-Apr-14	HMS (18910)	CERTIFIED

DBH  
TLR

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010484** Worksheet Start Date **3/30/2015**  
 Location **DFS-Central**  
 Address **737 N 5th St Richmond VA 23219**  
 DFS Technician **Donald Hall** License No. **21250**

Laboratory  On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **755** Reference Barometer (mm HG) **756**  
 Reference Barometer(RB)Serial # **009109** RB Calibration Due **7/28/2015**

### Measurement Assurance Check

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.301
0.300	0.298	0.289	0.306	<b>Sample 2</b>	0.301
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.301
0		0.301	0.301		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.099
0.100	0.099	0.096	0.102	<b>Sample 2</b>	0.098
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.098
0.001		0.098	0.099		

Dry gas standard Lot No. (with tank no.) **AG316301-26**

- Replaced dry gas standard (+O-ring)
- Installed at Location
- Removed to DFS-Central

- Supplies
- Mouthpieces
- Certificates of Analysis
- Operator Worksheet
- Other:



Notes:

[Redacted Notes]

Instrument Serial Number

010484

Certification Date

3/30/2015

Calibrated

Certified

Measurement Assurance Check

Instrument Test

Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.249
0.250	0.248	0.240	0.255	<b>Sample 2</b>	0.249
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.249
0		0.249	0.249		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.150
0.150	0.149	0.144	0.153	<b>Sample 2</b>	0.151
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.150
0.001		0.150	0.151		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.079
0.080	0.079	0.076	0.082	<b>Sample 2</b>	0.079
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.080
0.001		0.079	0.080		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.019
0.020	0.020	0.017	0.023	<b>Sample 2</b>	0.019
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

*Donald B Hall*

Date

*3/30/15*

Issuing Analyst

*J. King*

Date

*4/1/15* <sup>TLV</sup> *4/1/15*

*JPD*

DBH  
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Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010484      Test Number: 804  
Test Date: 03/30/2015      Test Time: 10:23 EDT

Technician Initials: DBH

Dry Gas Target: 0.248

Lot Number: 1611425014-01      Exp Date: 07/05/2016

Tank Pressure: 664 psi      Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:23
BLK	0.000	10:24
CHK	0.249	10:25
BLK	0.000	10:26
CHK	0.249	10:27
BLK	0.000	10:29
CHK	0.249	10:30
BLK	0.000	10:32

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

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Intox EC/IR-11: Certification

Department of Forensic Science  
Serial Number: 010484      Test Number: 805  
Test Date: 03/30/2015      Test Time: 10:34 EDT

Technician Initials: DBH  
Dry Gas Target: 0.149

Lot Number: 0771315013-02      Exp Date: 05/01/2015  
Tank Pressure: 66 psi      Barometric Pressure: 754 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:35
BLK	0.000	10:35
CHK	0.150	10:36
BLK	0.000	10:38
CHK	0.151	10:39
BLK	0.000	10:40
CHK	0.150	10:41
BLK	0.000	10:43

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

DBH  
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Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010484      Test Number: 906  
Test Date: 03/30/2015      Test Time: 10:50 EDT

Technician Initials: DBH

Dry Gas Target: 0.079

Lot Number: 1611408012-03      Exp Date: 07/05/2016

Tank Pressure: 1056 psi      Barometric Pressure: 754 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:51
BLK	0.000	10:52
CHK	0.079	10:52
BLK	0.000	10:54
CHK	0.079	10:54
BLK	0.000	10:56
CHK	0.080	10:57
BLK	0.000	10:58

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH  
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Intox EC/IR-II: Certification

Department of Forensic Science  
Serial Number: 010484      Test Number: 007  
Test Date: 03/30/2015      Test Time: 11:01 EDT

Technician Initials: DBH  
Dry Gas Target: 0.020  
Lot Number: 0771302011-03      Exp Date: 05/01/2015  
Tank Pressure: 169 psi      Barometric Pressure: 754 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:02
BLK	0.000	11:03
CHK	0.019	11:03
BLK	0.000	11:05
CHK	0.019	11:05
BLK	0.000	11:07
CHK	0.019	11:07
BLK	0.000	11:09

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

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Intox EC/IR-II: Accuracy Check

Department of Forensic Science  
Serial Number: 010484 Test Number: 808  
Test Date: 03/30/2015 Test Time: 11:11 EDT  
Dry Gas Target: 0.298  
Lot Number: AG428003-05 Exp Date: 10/07/2016  
Tank Pressure: 182 psi Barometric Pressure: 754 mmHg  
System Check: Passed

Test	g/210L	Time
BLK	0.000	11:12
CHK	0.301	11:13
BLK	0.000	11:15
CHK	0.301	11:16
BLK	0.000	11:17
CHK	0.301	11:18

Test Status: Success

Calibration CRC: 2E06FC2F

DBH  
TLW

INTOX EC/IR-II: Accuracy Check

*Department of Forensic Science*

Serial Number: 010484      Test Number: 809  
Test Date: 03/30/2015      Test Time: 11:21 EDT  
Dry Gas Target: 0.099  
Lot Number: AG316301-26      Exp Date: 06/12/2015  
Tank Pressure: 169 psi      Barometric Pressure: 754 mmHg  
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:22
CHK	0.099	11:23
BLK	0.000	11:24
CHK	0.098	11:25
BLK	0.000	11:27
CHK	0.098	11:28

Test Status: *Success*

Calibration CRC: 2E06FC2F

DDH  
Tb

INSTRUMENT, TEST,

DFS

HALL, DONALD, B

DFS Central Lab

21250

10/01/2016

03/30/2015

010484

03/30/2015

11:36 EDT

0.00

