



# 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: 010546

DATE CERTIFICATION METHOD PERFORMED: February 20, 2015

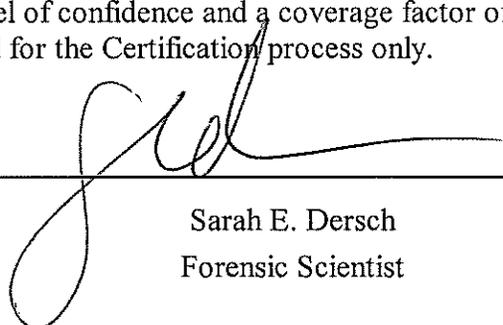
DATE RECERTIFICATION DUE: August 19, 2015

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.

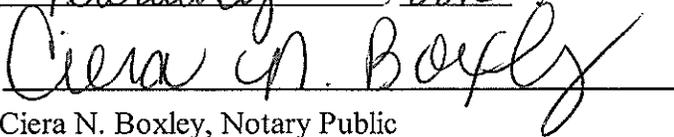



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Sarah E. Dersch  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 23<sup>rd</sup> day of February, 2015 by Sarah E. Dersch

 JPD

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



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

Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
2/20/2014 To 2/23/2015

DBH  
jed

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**Instrument Serial Number:** 010546 **As of 23-Feb-15**

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<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
20-Feb-15	20-Feb-15	DBH (21250)	CERTIFIED.
08-Sep-14	08-Sep-14	DBH (21250)	CERTIFIED.
24-Jun-14	14-Mar-14	HMS (18910)	REPLACED DRY GAS STANDARD.
14-Mar-14	14-Mar-14	HMS (18910)	CERTIFIED

DBH  
JH

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010546** Worksheet Start Date **2/20/2015**  
 Location **Bland CO SO**  
 Address **612 Main St Bland VA 24315**  
 DFS Technician **Donald Hall** License No. **21250**

Laboratory  On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **702** Reference Barometer (mm HG) **704**  
 Reference Barometer(RB)Serial # **009109** RB Calibration Due **7/28/2015**

### Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.277	0.268	0.285	0.283	0.283	0.283
Precision		sample min	sample max			
0		0.283	0.283			

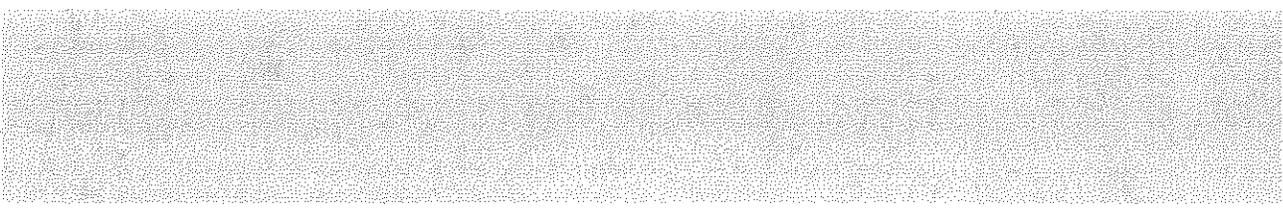
Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.092	0.089	0.095	0.093	0.093	0.093
Precision		sample min	sample max			
0		0.093	0.093			

Dry gas standard Lot No. (with tank no.) **AG404902-12**

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

Supplies  
 Mouthpieces **25**  
 Certificates of Analysis  
 Operator Worksheet  
 Other:

Notes:



Instrument Serial Number

010546

Certification Date

2/20/2015

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>	0.233
0.250	0.231	0.224	0.237	<b>Sample 2</b>	0.233
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.233
0		0.233	0.233		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.140
0.150	0.139	0.134	0.143	<b>Sample 2</b>	0.140
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.140
0		0.140	0.140		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.075
0.080	0.074	0.071	0.077	<b>Sample 2</b>	0.075
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.075
0		0.075	0.075		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.018
0.020	0.019	0.016	0.022	<b>Sample 2</b>	0.018
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.018
0		0.018	0.018		

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

*2/23/15*

Issuing Analyst

*JPD*

Date

*2/23/15*

DBH  
grad



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>HALL, DONALD, B</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>21250</b>	LICENSE EXPIRES <b>10/01/2016</b>	DATE TEST CONDUCTED <b>02/20/2015</b>
TEST EQUIPMENT NUMBER <b>010546</b>		

RESULTS: TIME SAMPLE TAKEN 09:55 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
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I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE



**IntoxNet MIS Report**  
Report Generated 23 Feb 2015 at 09:43

QBH  
Jed

Test Results

**Instrument Serial Number 010546**

**Test # 002475** Subject Test

Test Location 1 Department of  
Test Date 20 Feb 2015

Test Location 2 Forensic Science  
Test Time 09:48  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

License Number 21250

Effective Date 10/01/2014

Expiration Date 10/01/2016

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 20 Feb 2015 End Time 09:56

Result Time 09:55

Result Date 20 Feb 2015 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 09:49

Data Type BLK

Sample Value 0.000

Sample Time 09:50

Data Type CHK

Sample Value 0.094

Sample Time 09:50

Data Type BLK

Sample Value 0.000

Sample Time 09:52

Data Type SUBJ

Sample Value 0.000

Sample Time 09:53

Data Type BLK

Sample Value 0.000

Sample Time 09:54

Data Type SUBJ

Sample Value 0.000

Sample Time 09:55

Data Type BLK

Sample Value 0.000

Sample Time 09:56

Standard Type Dry Gas Std

Standard Value 0.092

Standard Lot Number AG404902-12

Standard Expiration Date 02/18/2016

Tank Pressure 1026

Barometric Pressure 701 mmHg

Blow Sample Number 1 Blow Duration 3.50 sec

Blow Volume 1852 cc End-of-Blow Time 09:53

Blow Sample Number 2 Blow Duration 3.71 sec

Blow Volume 1904 cc End-of-Blow Time 09:55

Tamper Evident Stamp 0cafa87d

Test Status Code 0

Test Status Success

DBH  
sd

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010546      Test Number: 2476  
Test Date: 02/20/2015      Test Time: 09:58 EST  
Dry Gas Target: 0.092

Lot Number: AG404902-12      Exp Date: 02/18/2016

Tank Pressure: 1022 psi      Barometric Pressure: 701 mmHg  
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:58
CHK	0.093	09:59
BLK	0.000	10:01
CHK	0.093	10:01
BLK	0.000	10:03
CHK	0.094	10:04

Test Status: *Success*

Calibration CRC: F6D4DC45

**Intox EC/IR-II: Accuracy Check**

DBH  
JCA

*Department of Forensic Science*

Serial Number: 010546      Test Number: 2477

Test Date: 02/20/2015      Test Time: 10:08 EST

Dry Gas Target: 0.277

Lot Number: AG428003-08      Exp Date: 10/07/2016

Tank Pressure: 536 psi      Barometric Pressure: 701 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:08
CHK	0.285	10:09
BLK	0.000	10:11
CHK	0.284	10:12
BLK	0.000	10:14
CHK	0.284	10:15

Test Status: *Success*

Calibration CRC: F6D4DC45

DBH  
Jed

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010546      Test Number: 2478  
Test Date: 02/20/2015      Test Time: 10:52 EST

Technician Initials: DBH

Dry Gas Target: 0.231

Lot Number: 1611425014-01      Exp Date: 07/05/2016  
Tank Pressure: 772 psi      Barometric Pressure: 702 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:52
BLK	0.000	10:53
CHK	0.233	10:54
BLK	0.000	10:56
CHK	0.233	10:57
BLK	0.000	10:58
CHK	0.233	10:59
BLK	0.000	11:01

**Success**

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

Certification Status: Continued

DBA  
Jed

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010546      Test Number: 2479  
Test Date: 02/20/2015      Test Time: 11:03 EST

Technician Initials: DBH

Dry Gas Target: 0.139

Lot Number: 0771315013-02      Exp Date: 05/01/2015

Tank Pressure: 149 psi      Barometric Pressure: 702 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:04
BLK	0.000	11:05
CHK	0.140	11:05
BLK	0.000	11:07
CHK	0.140	11:08
BLK	0.000	11:09
CHK	0.140	11:10
BLK	0.000	11:12

**Success**

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

Certification Status: Continued

**Intox EC/IR-II: Certification**

DBH

fd

*Department of Forensic Science*

Serial Number: 010546      Test Number: 2480  
Test Date: 02/20/2015      Test Time: 11:14 EST

Technician Initials: DBH

Dry Gas Target: 0.074

Lot Number: 34413080I2-02      Exp Date: 01/01/2016  
Tank Pressure: 100 psi      Barometric Pressure: 702 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:15
BLK	0.000	11:15
CHK	0.075	11:16
BLK	0.000	11:18
CHK	0.075	11:18
BLK	0.000	11:20
CHK	0.075	11:21
BLK	0.000	11:22

**Success**

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

Certification Status: Continued

DBH  
Jed

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010546      Test Number: 2481  
Test Date: 02/20/2015      Test Time: 11:25 EST

Technician Initials: DBH

Dry Gas Target: 0.019

Lot Number: 0771302011-03      Exp Date: 05/01/2015

Tank Pressure: 247 psi      Barometric Pressure: 702 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:25
BLK	0.000	11:26
CHK	0.018	11:27
BLK	0.000	11:28
CHK	0.018	11:29
BLK	0.000	11:30
CHK	0.018	11:31
BLK	0.000	11:33

**Success**

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

Certification Status: Success

**Intox EC/IR-II: Accuracy Check**

DBA

jed

*Department of Forensic Science*

Serial Number: 010546      Test Number: 2482

Test Date: 02/20/2015      Test Time: 11:35 EST

Dry Gas Target: 0.277

Lot Number: AG428003-08      Exp Date: 10/07/2016

Tank Pressure: 526 psi      Barometric Pressure: 702 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:36
CHK	0.283	11:37
BLK	0.000	11:39
CHK	0.283	11:40
BLK	0.000	11:42
CHK	0.283	11:43

Test Status: *Success*

Calibration CRC: F6D4DC45

DBH

gud

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010546      Test Number: 2483  
Test Date: 02/20/2015      Test Time: 11:45 EST  
Dry Gas Target: 0.092  
Lot Number: AG404902-12      Exp Date: 02/18/2016  
Tank Pressure: 997 psi      Barometric Pressure: 702 mmHg  
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:46
CHK	0.093	11:47
BLK	0.000	11:48
CHK	0.093	11:49
BLK	0.000	11:51
CHK	0.093	11:52

Test Status: *Success*

Calibration CRC: F6D4DC45

DBH  
Jed



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>HALL, DONALD, B</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>21250</b>	LICENSE EXPIRES <b>10/01/2016</b>	DATE TEST CONDUCTED <b>02/20/2015</b>
TEST EQUIPMENT NUMBER <b>010546</b>		

RESULTS: TIME SAMPLE TAKEN 12:01 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
----------------------

I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 20 Feb 2015 at 12:09

*fid*  
*DBH*

## Test Results

**Instrument Serial Number 010546**

**Test # 002484**      **Subject Test**

**Test Location 1** Department of  
Test Date 20 Feb 2015

**Test Location 2** Forensic Science  
Test Time 11:54  
Remote/Local Local

**Test Location 3**  
System Check Passed

**Operator's Last Name** HALL  
**Agency** DFS Central Lab

**Operator's First Name** DONALD

**Operator's Middle Initial** B

**Card Serial Number** 121250

**License Number** 21250

**Effective Date** 10/01/2014

**Expiration Date** 10/01/2016

**Subject's Last Name** INSTRUMENT

**Subject's First Name** TEST

**Subject's Middle Initial**

**Subject's Date of Birth** 00/00/0000

**Subject's Sex** Male

**Driver's License Number**

**Driver's License Expiration** 00/00/0000

**Driver's License State**

**Court Name** DFS

**End Date** 20 Feb 2015      **End Time** 12:02

**Result Time** 12:01

**Result Date** 20 Feb 2015

**Result** 0.00

**Data Type** DIAG

**Sample Value** Pass

**Sample Time** 11:55

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 11:55

**Data Type** CHK

**Sample Value** 0.092

**Sample Time** 11:56

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 11:58

**Data Type** SUBJ

**Sample Value** 0.000

**Sample Time** 11:59

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 11:59

**Data Type** SUBJ

**Sample Value** 0.000

**Sample Time** 12:01

**Data Type** BLK

**Sample Value** 0.000

**Sample Time** 12:02

**Standard Type** Dry Gas Std

**Standard Value** 0.092

**Standard Lot Number** AG404902-12

**Standard Expiration Date** 02/18/2016

**Tank Pressure** 987

**Barometric Pressure** 702 mmHg

**Blow Sample Number** 1      **Blow Duration** 4.55 sec

**Blow Volume** 2286 cc      **End-of-Blow Time** 11:59

**Blow Sample Number** 2      **Blow Duration** 4.04 sec

**Blow Volume** 1978 cc      **End-of-Blow Time** 12:01

**Tamper Evident Stamp** fc289f0e

**Test Status Code** 0

**Test Status** Success