



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

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

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II

SERIAL NUMBER: 010476

CERTIFICATION DATE: February 12, 2014

DATE RECERTIFICATION DUE: August 11, 2014

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 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.007 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.

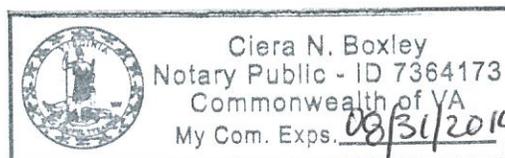
Michelle M. Billeter  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 24th day of February, 2014 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



MMB

Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 2/14/2014

Instrument Serial Number: 010476 As of 14-Feb-14

Maintenance Date	Certification Date	Technician Initials	Remarks
12-Feb-14	12-Feb-14	MMB (26417)	CERTIFIED. REPLACED UPS BACK-UP BATTERY. REPLACED DRY GAS STANDARD.
27-Aug-13	27-Aug-13	MMB (26417)	CERTIFIED.
23-Jul-13	23-Jul-13	DBH (21250)	REPLACED UPS BACK-UP BATTERY. FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
11-Mar-13	11-Mar-13	HMS (18910)	CERTIFIED
18-Sep-12	18-Sep-12	SED (24178)	CERTIFIED.
12-Sep-12	12-Sep-12	DBH (21250)	REPLACED AND TESTED FUEL CELL MODULE, CALIBRATED AND CERTIFIED.
04-Jun-12	16-Mar-12	TLN (25387)	REPLACED E-SEEK CARD READER.
16-Mar-12	16-Mar-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
27-Sep-11	27-Sep-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
19-Apr-11	19-Apr-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
28-Jan-11	26-Oct-10	DBH (21250)	REPLACED DRY GAS STANDARD
26-Oct-10	26-Oct-10	DBH (21250)	CERTIFIED
05-Oct-10	12-May-10	DBH (21250)	REPLACED E-SEEK BAR CODE READER
12-May-10	12-May-10	DBH (21250)	CERTIFIED
05-May-10	01-Dec-09	DBH (21250)	REPLACED DRY GAS STANDARD
21-Jan-10	01-Dec-09	DBH (21250)	REPLACED DRY GAS STANDARD
01-Dec-09	01-Dec-09	DBH (21250)	CERTIFIED
10-Nov-09	17-Jun-09	DBH (21250)	REPLACED PRINTER.
30-Oct-09	17-Jun-09	DBH (21250)	REPLACED DRY GAS STANDARD.
17-Jun-09	17-Jun-09	DBH (21250)	CERTIFIED.
03-Apr-09	03-Apr-09	DBH (21250)	CERTIFIED.
30-Mar-09	30-Mar-09	RJP (22428)	FIRMWARE/SOFTWARE UPGRADE. CERTIFIED.
25-Mar-09	25-Mar-09	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
10-Nov-08	10-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

mmB

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010476** Worksheet Start Date **2/12/2014**  
 Location **Pamunkey Regional Jail**  
 Address **7240 Courtland Farm Rd Hanover VA 23069**  
 DFS Technician **Michelle Billeter** License No. **26417**

Laboratory  On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **773** Reference Barometer (mm HG) **771**  
 Reference Barometer(RB)Serial # **009111** RB Calibration Due **5/23/2014**

### Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.305	0.295	0.314	0.307	0.308	0.307
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>			
0.001		0.307	0.308			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.102	0.098	0.105	0.102	0.102	0.102
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>			
0		0.102	0.102			

Dry gas standard Lot No. (with tank no.) **AG332301-09**

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

Supplies **50**  
 Mouthpieces **80**  
 Certificates of Analysis **75**  
 Operator Worksheet  
 Other:

### Notes:

Replaced UPS Back-Up Battery.

Instrument Serial Number

010476

Certification Date

2/12/2014

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>	0.255
0.250	0.254	0.246	0.261	<b>Sample 2</b>	0.256
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.255
0.001		0.255	0.256		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.153
0.150	0.153	0.148	0.157	<b>Sample 2</b>	0.153
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.153
0		0.153	0.153		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.082
0.080	0.081	0.078	0.084	<b>Sample 2</b>	0.082
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.082
0		0.082	0.082		

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

All measurements are in g/210L

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

DFS Technician

Michelle Belleter

Date

2/14/14

Issuing Analyst

Michelle Belleter

Date

2/18/14

TLN

**Intox EC/IR-11: Certification***Department of Forensic Science*

Serial Number: 010476      Test Number: 2840  
Test Date: 02/12/2014      Test Time: 10:40 EST

Technician Initials: *MMB*Dry Gas Target: *0.254*

Lot Number: *0651225015-02*      Exp Date: *04/01/2014*  
Tank Pressure: *311 psi*      Barometric Pressure: *773 mmHg*  
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:41
BLK	0.000	10:41
CHK	0.255	10:42
BLK	0.000	10:44
CHK	0.256	10:44
BLK	0.000	10:46
CHK	0.255	10:47
BLK	0.000	10:48

**Success**

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

Certification Status: Continued

MMB

**Intox EC/1R-11: Certification**

*Department of Forensic Science*

Serial Number: 010476      Test Number: 2841  
Test Date: 02/12/2014      Test Time: 10:51 EST

Technician Initials: *MMB*

Dry Gas Target: *0.153*

Lot Number: *0651215014-04*      Exp Date: *04/01/2014*

Tank Pressure: *718 psi*      Barometric Pressure: *774 mmHg*

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:52
BLK	0.000	10:52
CHK	0.153	10:53
BLK	0.000	10:54
CHK	0.153	10:55
BLK	0.000	10:57
CHK	0.153	10:57
BLK	0.000	10:59

**Success**

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

Certification Status: Continued

**Intox EC/1R-11: Certification***Department of Forensic Science*

Serial Number: 010476      Test Number: 2842  
Test Date: 02/12/2014      Test Time: 11:00 EST

Technician Initials: *MMB*Dry Gas Target: *0.081*Lot Number: *0651208012-01*      Exp Date: *04/01/2014*Tank Pressure: *875 psi*      Barometric Pressure: *773 mmHg*System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	11:01
BLK	0.000	11:02
CHK	0.082	11:03
BLK	0.000	11:04
CHK	0.082	11:05
BLK	0.000	11:06
CHK	0.082	11:07
BLK	0.000	11:08

**Success**

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

Certification Status: Continued

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

*Department of Forensic Science*

Serial Number: 010476      Test Number: 2843  
Test Date: 02/12/2014      Test Time: 11:09 EST

Technician Initials: MMB  
Dry Gas Target: 0.020

Lot Number: 0651202011-04      Exp Date: 04/01/2014  
Tank Pressure: 1041 psi      Barometric Pressure: 773 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:10
BLK	0.000	11:10
CHK	0.020	11:11
BLK	0.000	11:12
CHK	0.020	11:13
BLK	0.000	11:14
CHK	0.020	11:15
BLK	0.000	11:16

**Success**

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

Certification Status: Success

mmb



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  INSTRUMENT, TEST,	NAME OF COURT  DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY  BILLETER, MICHELLE, M		AGENCY  DFS Central Lab
DFS LICENSE NUMBER  26417	LICENSE EXPIRES  10/01/2014	DATE TEST CONDUCTED  02/12/2014
TEST EQUIPMENT NUMBER  010476		

RESULTS: TIME SAMPLE TAKEN 11:26 EST

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

*Instrument Test performed after certification  
was successful, before replacing <sup>ups</sup> back-up battery*

*mmb 621214*

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

mmb



# IntoxNet MIS Report

Report Generated 14 Feb 2014 at 13:49

## Test Results

**Instrument Serial Number 010476**

**Test # 002844**      Subject Test

Test Location 1    Department of  
Test Date    12 Feb 2014

Test Location 2    Forensic Science  
Test Time    11:19  
Remote/Local    Local

Test Location 3  
System Check    Passed

Operator's Last Name    BILLETER  
Agency    DFS Central Lab  
Card Serial Number    126417

Operator's First Name    MICHELLE

Operator's Middle Initial    M  
License Number    26417

Subject's Last Name    INSTRUMENT  
Subject's Middle Initial

Effective Date    10/01/2012      Expiration Date    10/01/2014

Subject's First Name    TEST

Driver's License Number  
Driver's License State

Subject's Date of Birth    00/00/0000      Subject's Sex    Male

Driver's License Expiration    00/00/0000

Court Name    DFS

End Date    12 Feb 2014      End Time    11:27

Result Time    11:26

Result Date    12 Feb 2014      Result    0.00

Data Type    DIAG

Sample Value    Pass

Sample Time    11:20

Data Type    BLK

Sample Value    0.000

Sample Time    11:20

Data Type    CHK

Sample Value    0.102

Sample Time    11:21

Data Type    BLK

Sample Value    0.000

Sample Time    11:22

Data Type    SUBJ

Sample Value    0.000

Sample Time    11:23

Data Type    BLK

Sample Value    0.000

Sample Time    11:24

Data Type    SUBJ

Sample Value    0.000

Sample Time    11:26

Data Type    BLK

Sample Value    0.000

Sample Time    11:27

Standard Type    Dry Gas Std

Standard Value    0.102

Standard Lot Number    AG332301-09

Standard Expiration Date    11/19/2015

Tank Pressure    1120

Barometric Pressure    773 mmHg

Blow Sample Number    1      Blow Duration    3.50 sec

Blow Volume    1756 cc      End-of-Blow Time    11:23

Blow Sample Number    2      Blow Duration    3.64 sec

Blow Volume    1834 cc      End-of-Blow Time    11:26

Tamper Evident Stamp    1cb16f33

Test Status Code    0

Test Status    Success

Intox EC/IR-11: Accuracy Check

MMB

*Department of Forensic Science*

Serial Number: 010476      Test Number: 2845  
Test Date: 02/12/2014      Test Time: 11:36 EST  
Dry Gas Target: 0.305  
Lot Number: AG321804-04      Exp Date: 08/06/2015  
Tank Pressure: 335 psi      Barometric Pressure: 772 mmHg  
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:37
CHK	0.307	11:37
BLK	0.000	11:39
CHK	0.308	11:40
BLK	0.000	11:42
CHK	0.307	11:43

Test Status: *Success*

Calibration CRC: D8097369

**Intox EC/IR-11: Accuracy Check***Department of Forensic Science*

Serial Number: 010476      Test Number: 2846

Test Date: 02/12/2014      Test Time: 11:45 EST

Dry Gas Target: 0.102

Lot Number: AG332301-09      Exp Date: 11/19/2015

Tank Pressure: 1120 psi      Barometric Pressure: 772 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:46
CHK	0.102	11:47
BLK	0.000	11:48
CHK	0.102	11:49
BLK	0.000	11:50
CHK	0.102	11:51

Test Status: *Success*

Calibration CRC: D8097369

mmb



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 INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY BILLETTER, MICHELLE, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 26417	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 02/12/2014
TEST EQUIPMENT NUMBER 010476		

RESULTS: TIME SAMPLE TAKEN 11:59 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

mmB



# IntoxNet MIS Report

Report Generated 14 Feb 2014 at 13:48

## Test Results

**Instrument Serial Number 010476**

**Test # 002847**      Subject Test

Test Location 1    Department of  
Test Date    12 Feb 2014

Test Location 2    Forensic Science  
Test Time    11:52  
Remote/Local    Local

Test Location 3  
System Check    Passed

Operator's Last Name    BILLETER  
Agency    DFS Central Lab  
Card Serial Number    126417

Operator's First Name    MICHELLE

Operator's Middle Initial    M  
License Number    26417

Subject's Last Name    INSTRUMENT  
Subject's Middle Initial

Effective Date    10/01/2012      Expiration Date    10/01/2014

Subject's First Name    TEST

Driver's License Number  
Driver's License State

Subject's Date of Birth    00/00/0000      Subject's Sex    Male

Driver's License Expiration    00/00/0000

Court Name    DFS

End Date    12 Feb 2014      End Time    12:00

Result Time    11:59

Result Date    12 Feb 2014      Result    0.00

Data Type    DIAG

Sample Value    Pass

Sample Time    11:53

Data Type    BLK

Sample Value    0.000

Sample Time    11:54

Data Type    CHK

Sample Value    0.102

Sample Time    11:54

Data Type    BLK

Sample Value    0.000

Sample Time    11:56

Data Type    SUBJ

Sample Value    0.000

Sample Time    11:57

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    12:00

Standard Type    Dry Gas Std

Standard Value    0.102

Standard Lot Number    AG332301-09

Standard Expiration Date    11/19/2015

Tank Pressure    1120

Barometric Pressure    772 mmHg

Blow Sample Number    1      Blow Duration    3.39 sec

Blow Volume    1753 cc      End-of-Blow Time    11:57

Blow Sample Number    2      Blow Duration    3.64 sec

Blow Volume    1821 cc      End-of-Blow Time    11:59

Tamper Evident Stamp    17e403a0

Test Status Code    0

Test Status    Success