



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: 010572
CERTIFICATION DATE: February 11, 2014
DATE RECERTIFICATION DUE: August 10, 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
0.080 ± 0.004 g/210 L
0.150 ± 0.007 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.

Handwritten signature of Michelle M. Billeter

Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 20th day of February, 2014 by Michelle M. Billeter

Handwritten signature of Ciera N. Boxley

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

TLW



**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/11/2014**

HMS
MMS

Instrument Serial Number: 010572 **As of 11-Feb-14**

| Maintenance Date | Certification Date | Technician Initials | Remarks |
|-------------------------|---------------------------|----------------------------|---|
| 11-Feb-14 | 11-Feb-14 | HMS (18910) | REPLACED PRINTER, REPLACED UPS BACK-UP BATTERY, CERTIFIED |
| 22-Aug-13 | 22-Aug-13 | HMS (18910) | FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD. |
| 05-Mar-13 | 05-Mar-13 | HMS (18910) | CERTIFIED |
| 12-Sep-12 | 12-Sep-12 | HMS (18910) | REPLACED MODEM PHONE CORD, CERTIFIED, REPLACED DRY GAS STANDARD. |
| 27-Aug-12 | 26-Mar-12 | DBH (21250) | RECONNECTED BREATH TUBE ELECTRICAL CONNECTOR. |
| 26-Mar-12 | 26-Mar-12 | SED (24178) | CERTIFIED. REPLACED DRY GAS STANDARD. |
| 05-Oct-11 | 05-Oct-11 | HMS (18910) | CERTIFIED |
| 19-Apr-11 | 19-Apr-11 | HMS (18910) | REPLACED DRY GAS STANDARD, CERTIFIED |
| 01-Nov-10 | 01-Nov-10 | HMS (18910) | CALIBRATED AND CERTIFIED. |
| 26-May-10 | 26-May-10 | HMS (18910) | REPLACED DRY GAS STANDARD, CERTIFIED |
| 09-Dec-09 | 09-Dec-09 | RJP (22428) | CERTIFIED |
| 24-Jun-09 | 24-Jun-09 | HMS (18910) | CALIBRATED AND CERTIFIED. |
| 20-Mar-09 | 20-Mar-09 | HMS (18910) | FIRMWARE/SOFTWARE UPGRADE, CERTIFIED. |
| 06-Jan-09 | 06-Jan-09 | HMS (18910) | CERTIFIED. |
| 10-Dec-08 | 10-Dec-08 | NMJ (22392) | CALIBRATED, CERTIFIED AND ACCEPTED. |

Handwritten initials and signature: HHS, mmb

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number: 010572 Worksheet Start Date: 2/11/2014

Location: Sussex County

Address: 20212 Thornton Sq., Sussex, VA 23884

DFS Technician: Heather Stanton License No.: 18910

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG): 770 Reference Barometer (mm HG): 770

Reference Barometer(RB)Serial #: 009113 RB Calibration Due: 5/8/2014

Measurement Assurance Check

| Standard (sea level) | PA Target | minimum | maximum | Sample 1 | Sample 2 | Sample 3 |
|----------------------|-----------|-------------------|-------------------|----------|----------|----------|
| 0.300 | 0.304 | 0.294 | 0.313 | 0.305 | 0.305 | 0.305 |
| Precision | | sample min | sample max | | | |
| 0 | | 0.305 | 0.305 | | | |

| Standard (sea level) | PA Target | minimum | maximum | Sample 1 | Sample 2 | Sample 3 |
|----------------------|-----------|-------------------|-------------------|----------|----------|----------|
| 0.100 | 0.101 | 0.097 | 0.104 | 0.100 | 0.100 | 0.100 |
| Precision | | sample min | sample max | | | |
| 0 | | 0.100 | 0.100 | | | |

Dry gas standard Lot No. (with tank no.) AG316301-04

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

Supplies
 Mouthpieces 75
 Certificates of Analysis 75
 Operator Worksheet
 Other:

Notes: Replaced printer. Replaced UPS back-up battery.

Instrument Serial Number

010572

Certification Date

2/11/2014

Calibrated

Certified

Measurement Assurance Check

Instrument Test

Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

| | | | | | |
|-----------------------------|------------------|-------------------|-------------------|-----------------|-------|
| Standard (sea level) | PA Target | minimum | maximum | Sample 1 | 0.251 |
| 0.250 | 0.253 | 0.245 | 0.260 | Sample 2 | 0.251 |
| Precision | | sample min | sample max | Sample 3 | 0.251 |
| 0 | | 0.251 | 0.251 | | |

| | | | | | |
|-----------------------------|------------------|-------------------|-------------------|-----------------|-------|
| Standard (sea level) | PA Target | minimum | maximum | Sample 1 | 0.151 |
| 0.150 | 0.152 | 0.147 | 0.156 | Sample 2 | 0.151 |
| Precision | | sample min | sample max | Sample 3 | 0.151 |
| 0 | | 0.151 | 0.151 | | |

| | | | | | |
|-----------------------------|------------------|-------------------|-------------------|-----------------|-------|
| Standard (sea level) | PA Target | minimum | maximum | Sample 1 | 0.080 |
| 0.080 | 0.081 | 0.078 | 0.084 | Sample 2 | 0.080 |
| Precision | | sample min | sample max | Sample 3 | 0.080 |
| 0 | | 0.080 | 0.080 | | |

| | | | | | |
|-----------------------------|------------------|-------------------|-------------------|-----------------|-------|
| Standard (sea level) | PA Target | minimum | maximum | Sample 1 | 0.020 |
| 0.020 | 0.020 | 0.017 | 0.023 | Sample 2 | 0.020 |
| Precision | | sample min | sample max | Sample 3 | 0.019 |
| 0.001 | | 0.019 | 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

Heath u Stash

Date

2/11/14

Issuing Analyst

Michelle Beller

Date

2/18/14

hns
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 | NAME OF COURT |
|-----------------|---------------|

INSTRUMENT, TEST, BREATH ANALYSIS DFS

| | | |
|---------------------------------------|-----------------|----------------------|
| SAMPLE EXAMINED AND TEST CONDUCTED BY | | AGENCY |
| DFS LICENSE NUMBER HEATHER, M | LICENSE EXPIRES | TEST CONDUCTED 1 Lab |
| TEST EQUIPMENT NUMBER | 10/01/2014 | |

010572 08/22/2013

RESULTS: TIME SAMPLE TAKEN 09:56 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

HMS
mms



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 |
|---|-----------------------------|

BREATH ANALYSIS

| | | |
|---|--------------------------------------|--|
| SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M | | AGENCY DFS Central Lab |
| DFS LICENSE NUMBER 18910 | LICENSE EXPIRES 10/01/2014 | DATE TEST CONDUCTED 02/11/2014 |
| TEST EQUIPMENT NUMBER 010572 | | |

RESULTS: TIME SAMPLE TAKEN 09:56 EST

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

Replaced UPS back-up battery. HMS 2/11/14
Replaced Printer. HMS 2/11/14

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

HMS
MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010572 Test Number: 479
Test Date: 02/11/2014 Test Time: 10:21 EST

Technician Initials: HMS

Dry Gas Target: 0.253

Lot Number: 0771325014-02 Exp Date: 05/01/2015

Tank Pressure: 708 psi Barometric Pressure: 770 mmHg

System Check: Passed

| Test | g/210L | Time |
|------|--------|-------|
| DIAG | Pass | 10:21 |
| BLK | 0.000 | 10:22 |
| CHK | 0.251 | 10:23 |
| BLK | 0.000 | 10:25 |
| CHK | 0.251 | 10:26 |
| BLK | 0.000 | 10:27 |
| CHK | 0.251 | 10:28 |
| BLK | 0.000 | 10:30 |

Success

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

Certification Status: Continued

HMS
MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010572 Test Number: 480
Test Date: 02/11/2014 Test Time: 10:32 EST

Technician Initials: HMS

Dry Gas Target: 0.152

Lot Number: 2951215012-02 Exp Date: 11/01/2014

Tank Pressure: 178 psi Barometric Pressure: 770 mmHg

System Check: Passed

| Test | g/210L | Time |
|------|--------|-------|
| DIAG | Pass | 10:33 |
| BLK | 0.000 | 10:33 |
| CHK | 0.151 | 10:34 |
| BLK | 0.000 | 10:36 |
| CHK | 0.151 | 10:36 |
| BLK | 0.000 | 10:38 |
| CHK | 0.151 | 10:39 |
| BLK | 0.000 | 10:40 |

Success

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

Certification Status: Continued

LMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010572 Test Number: 481
Test Date: 02/11/2014 Test Time: 10:42 EST

Technician Initials: HMS

Dry Gas Target: 0.081

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 286 psi Barometric Pressure: 770 mmHg
System Check: Passed

| Test | g/210L | Time |
|------|--------|-------|
| DIAG | Pass | 10:43 |
| BLK | 0.000 | 10:43 |
| CHK | 0.080 | 10:44 |
| BLK | 0.000 | 10:45 |
| CHK | 0.080 | 10:46 |
| BLK | 0.000 | 10:48 |
| CHK | 0.080 | 10:48 |
| BLK | 0.000 | 10:50 |

Success

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

Certification Status: Continued

HMS
MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010572 Test Number: 482
Test Date: 02/11/2014 Test Time: 10:51 EST

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 0771302011-04 Exp Date: 05/01/2015

Tank Pressure: 301 psi Barometric Pressure: 770 mmHg
System Check: Passed

| Test | g/210L | Time |
|------|--------|-------|
| DIAG | Pass | 10:52 |
| BLK | 0.000 | 10:53 |
| CHK | 0.020 | 10:53 |
| BLK | 0.000 | 10:55 |
| CHK | 0.020 | 10:55 |
| BLK | 0.000 | 10:57 |
| CHK | 0.019 | 10:57 |
| BLK | 0.000 | 10:59 |

Success

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

Certification Status: Success

AMS
MMB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010572 Test Number: 483

Test Date: 02/11/2014 Test Time: 11:01 EST

Dry Gas Target: 0.304

Lot Number: AG322702-08 Exp Date: 08/15/2015

Tank Pressure: 90 psi Barometric Pressure: 770 mmHg

System Check: *Passed*

| Test | g/210L | Time |
|------|--------|-------|
| BLK | 0.000 | 11:02 |
| CHK | 0.305 | 11:02 |
| BLK | 0.000 | 11:04 |
| CHK | 0.305 | 11:05 |
| BLK | 0.000 | 11:07 |
| CHK | 0.305 | 11:08 |

Test Status: *Success*

Calibration CRC: 8E7FA4DC

Handwritten initials and signature
mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010572 Test Number: 484

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

Dry Gas Target: 0.101

Lot Number: AG316301-04 Exp Date: 06/12/2015

Tank Pressure: 1031 psi Barometric Pressure: 769 mmHg

System Check: *Passed*

| Test | g/210L | Time |
|------|--------|-------|
| BLK | 0.000 | 11:12 |
| CHK | 0.100 | 11:12 |
| BLK | 0.000 | 11:14 |
| CHK | 0.100 | 11:15 |
| BLK | 0.000 | 11:16 |
| CHK | 0.100 | 11:17 |

Test Status: *Success*

Calibration CRC: 8E7FA4DC

AMS
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 |
|---|-----------------------------|

BREATH ANALYSIS

| | | |
|---|--------------------------------------|--|
| SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M | | AGENCY DFS Central Lab |
| DFS LICENSE NUMBER 18910 | LICENSE EXPIRES 10/01/2014 | DATE TEST CONDUCTED 02/11/2014 |
| TEST EQUIPMENT NUMBER 010572 | [REDACTED] | |

RESULTS: TIME SAMPLE TAKEN 11:26 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 11 Feb 2014 at 15:59

HMS
MMB

Test Results

Instrument Serial Number 010572

Test # 000485 **Subject Test**

Test Location 1 Department of
Test Date 11 Feb 2014

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

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

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 11 Feb 2014 End Time 11:27

Result Time 11:26

Result Date 11 Feb 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:20

Data Type BLK

Sample Value 0.000

Sample Time 11:21

Data Type CHK

Sample Value 0.100

Sample Time 11:21

Data Type BLK

Sample Value 0.000

Sample Time 11:23

Data Type SUBJ

Sample Value 0.000

Sample Time 11:24

Data Type BLK

Sample Value 0.000

Sample Time 11:25

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 0.101

Standard Lot Number AG316301-04

Standard Expiration Date 06/12/2015

Tank Pressure 1022

Barometric Pressure 769 mmHg

Blow Sample Number 1 Blow Duration 3.41 sec

Blow Volume 1769 cc End-of-Blow Time 11:24

Blow Sample Number 2 Blow Duration 3.45 sec

Blow Volume 1764 cc End-of-Blow Time 11:26

Tamper Evident Stamp f7c30221

Test Status Code 0

Test Status Success