



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:	010547
CERTIFICATION DATE:	February 10, 2014
DATE RECERTIFICATION DUE:	August 9, 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

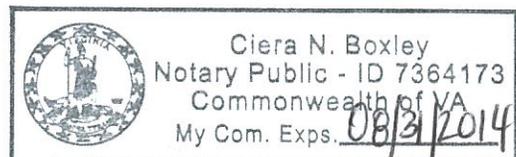
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

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

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 2/10/2014**

HMS
mmb

Instrument Serial Number: 010547

As of 10-Feb-14

Maintenance Date	Certification Date	Technician Initials	Remarks
10-Feb-14	10-Feb-14	HMS (18910)	CERTIFIED
21-Aug-13	21-Aug-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
05-Mar-13	05-Mar-13	HMS (18910)	CERTIFIED
11-Sep-12	11-Sep-12	HMS (18910)	CERTIFIED
27-Mar-12	27-Mar-12	SED (24178)	CERTIFIED. REPLACED DRY GAS STANDARD.
04-Oct-11	04-Oct-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
18-Apr-11	18-Apr-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
02-Nov-10	02-Nov-10	HMS (18910)	CERTIFIED
25-May-10	25-May-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
10-Dec-09	10-Dec-09	RJP (22428)	CERTIFIED
23-Jun-09	23-Jun-09	HMS (18910)	CERTIFIED.
06-Mar-09	06-Mar-09	RJP (22428)	CERTIFIED.
04-Mar-09	04-Mar-09	RJP (22428)	FIRMWARE/SOFTWARE UPGRADE. CERTIFIED.
12-Dec-08	12-Dec-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

Handwritten initials and "mmB"

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010547** Worksheet Start Date **2/10/2014**
Location **Franklin Police Department**
Address **1018 Pretlow St., Franklin, VA 23851**
DFS Technician **Heather Stanton** License No. **18910**

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **764** Reference Barometer (mm HG) **767**
Reference Barometer(RB)Serial # **009113** RB Calibration Due **5/8/2014**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.305
0.300	0.302	0.292	0.311	Sample 2	0.305
Precision		sample min	sample max	Sample 3	0.305
0		0.305	0.305		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.101
0.100	0.101	0.097	0.104	Sample 2	0.101
Precision		sample min	sample max	Sample 3	0.100
0.001		0.100	0.101		

Dry gas standard Lot No. (with tank no.) **AG316301-08**

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

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:

75
2 pads

Notes:

Instrument Serial Number

010547

Certification Date

2/10/2014

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	0.251	0.243	0.258	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	0.151	0.146	0.155	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	0.081
0.080	0.080	0.077	0.083	Sample 2	0.081
Precision		sample min	sample max	Sample 3	0.080
0.001		0.080	0.081		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.020
0.020	0.020	0.017	0.023	Sample 2	0.019
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 W. Stack

Date

2/10/14

Issuing Analyst

Michelle Bullock

Date

2/18/14

TLN

HMS
MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010547 Test Number: 731
Test Date: 02/10/2014 Test Time: 10:14 EST

Technician Initials: *HMS*

Dry Gas Target: 0.251

Lot Number: 0771325014-02 Exp Date: 05/01/2015
Tank Pressure: 821 psi Barometric Pressure: 764 mmHg
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:15
BLK	0.000	10:16
CHK	0.251	10:16
BLK	0.000	10:18
CHK	0.251	10:19
BLK	0.000	10:20
CHK	0.251	10:21
BLK	0.000	10:23

Success

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

Certification Status: Continued

HMS
AMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010547 Test Number: 732
Test Date: 02/10/2014 Test Time: 10:24 EST

Technician Initials: *HMS*

Dry Gas Target: *0.151*

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

Tank Pressure: *203 psi* Barometric Pressure: *764 mmHg*
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:24
BLK	0.000	10:25
CHK	0.151	10:26
BLK	0.000	10:27
CHK	0.151	10:28
BLK	0.000	10:30
CHK	0.151	10:30
BLK	0.000	10:32

Success

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

Certification Status: Continued

HMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010547 Test Number: 733
Test Date: 02/10/2014 Test Time: 10:34 EST

Technician Initials: *HMS*

Dry Gas Target: *0.080*

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

Tank Pressure: *321 psi* Barometric Pressure: *764 mmHg*
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:34
BLK	0.000	10:35
CHK	0.081	10:36
BLK	0.000	10:37
CHK	0.081	10:38
BLK	0.000	10:39
CHK	0.080	10:40
BLK	0.000	10:41

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: 010547 Test Number: 734
Test Date: 02/10/2014 Test Time: 10:42 EST

Technician Initials: HMS

Dry Gas Target: 0.020

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

Tank Pressure: 345 psi Barometric Pressure: 764 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:42
BLK	0.000	10:43
CHK	0.020	10:44
BLK	0.000	10:45
CHK	0.019	10:46
BLK	0.000	10:47
CHK	0.019	10:48
BLK	0.000	10:49

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: 010547 Test Number: 735

Test Date: 02/10/2014 Test Time: 10:51 EST

Dry Gas Target: 0.302

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

Tank Pressure: 115 psi Barometric Pressure: 764 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:52
CHK	0.305	10:53
BLK	0.000	10:55
CHK	0.305	10:55
BLK	0.000	10:57
CHK	0.305	10:58

Test Status: *Success*

Calibration CRC: 249FE88C

AMS
AMB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010547 Test Number: 736

Test Date: 02/10/2014 Test Time: 11:00 EST

Dry Gas Target: 0.101

Lot Number: AG316301-08 Exp Date: 06/12/2015

Tank Pressure: 973 psi Barometric Pressure: 764 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:01
CHK	0.101	11:02
BLK	0.000	11:03
CHK	0.101	11:04
BLK	0.000	11:06
CHK	0.100	11:06

Test Status: *Success*

Calibration CRC: 249FE88C

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
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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 02/10/2014
TEST EQUIPMENT NUMBER 010547		

RESULTS: TIME SAMPLE TAKEN 11:14 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



Handwritten initials: HHS
mmB

Test Results

Instrument Serial Number 010547

Test # 000737 Subject Test

Test Location 1 Department of
Test Date 10 Feb 2014

Test Location 2 Forensic Science
Test Time 11:07
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
License Number 18910

Card Serial Number 118910

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 10 Feb 2014 End Time 11:15

Result Time 11:14

Result Date 10 Feb 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:08

Data Type BLK

Sample Value 0.000

Sample Time 11:09

Data Type CHK

Sample Value 0.100

Sample Time 11:09

Data Type BLK

Sample Value 0.000

Sample Time 11:11

Data Type SUBJ

Sample Value 0.000

Sample Time 11:12

Data Type BLK

Sample Value 0.000

Sample Time 11:13

Data Type SUBJ

Sample Value 0.000

Sample Time 11:14

Data Type BLK

Sample Value 0.000

Sample Time 11:15

Standard Type Dry Gas Std

Standard Value 0.101

Standard Lot Number AG316301-08

Standard Expiration Date 06/12/2015

Tank Pressure 968

Barometric Pressure 764 mmHg

Blow Sample Number 1 Blow Duration 3.27 sec

Blow Volume 1745 cc End-of-Blow Time 11:12

Blow Sample Number 2 Blow Duration 3.59 sec

Blow Volume 1787 cc End-of-Blow Time 11:14

Tamper Evident Stamp 87118173

Test Status Code 0

Test Status Success