



# 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:	010635
CERTIFICATION DATE:	March 5, 2014
DATE RECERTIFICATION DUE:	September 1, 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

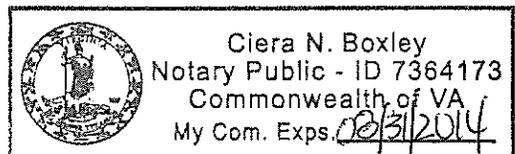
CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 6<sup>th</sup> day of May, 2014 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

*msc*



**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 3/6/2014**

*HMS  
MMB*

**Instrument Serial Number: 010635**

**As of 06-Mar-14**

<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
05-Mar-14	05-Mar-14	HMS (18910)	CERTIFIED
19-Sep-13	19-Sep-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
10-Apr-13	10-Apr-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
24-Oct-12	24-Oct-12	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
09-May-12	09-May-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
16-Nov-11	16-Nov-11	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
06-Jun-11	06-Jun-11	RJP (22428)	CERTIFIED.
20-Dec-10	20-Dec-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
07-Jul-10	07-Jul-10	RJP (22428)	CERTIFIED
20-Jan-10	20-Jan-10	RJP (22428)	CERTIFIED
04-Aug-09	04-Aug-09	RJP (22428)	CERTIFIED.
16-Apr-09	16-Apr-09	RJP (22428)	CERTIFIED.
02-Apr-09	02-Apr-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

**INTOX EC/IR II  
Quality Assurance Worksheet**

*AMS  
mmB*

Instrument Serial Number **010635** Worksheet Start Date **3/5/2014**  
 Location **Fort Myer**  
 Address **108 Sheridan Ave., Building 415, Fort Myer, VA 22211**  
 DFS Technician **Heather Stanton** License No. **18910**

Laboratory  On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **762** Reference Barometer (mm HG) **762**  
 Reference Barometer(RB)Serial # **009113** RB Calibration Due **5/8/2014**

Measurement Assurance Check

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.302
0.300	0.301	0.291	0.310	<b>Sample 2</b>	0.302
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.301
0.001		0.301	0.302		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.099
0.100	0.100	0.097	0.103	<b>Sample 2</b>	0.099
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.099
0		0.099	0.099		

Dry gas standard Lot No. (with tank no.) **AG316301-29**

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

Supplies  
 Mouthpieces  
 Certificates of Analysis  
 Operator Worksheet  
 Other:



Notes:

[Large area of fine grid pattern, likely a placeholder for handwritten notes.]

Instrument Serial Number

010635

Certification Date

3/5/2014

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>	0.249
0.250	0.251	0.243	0.258	<b>Sample 2</b>	0.249
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.248
0.001		0.248	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	0.150	0.145	0.154	<b>Sample 2</b>	0.150
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.150
0		0.150	0.150		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.080
0.080	0.080	0.077	0.083	<b>Sample 2</b>	0.080
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.080
0		0.080	0.080		

<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>	0.019
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	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 Stark Date: 3/6/14

Issuing Analyst: Michelle Beller Date: 3/6/14

*msk*

HMS  
MMB

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

*Department of Forensic Science*

Serial Number: 010635      Test Number: 260  
Test Date: 03/05/2014      Test Time: 11:22 EST

Technician Initials: HMS

Dry Gas Target: 0.251

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

Tank Pressure: 585 psi      Barometric Pressure: 762 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:22
BLK	0.000	11:23
CHK	0.249	11:24
BLK	0.000	11:26
CHK	0.249	11:27
BLK	0.000	11:28
CHK	0.248	11:29
BLK	0.000	11:31

**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: 010635      Test Number: 261  
Test Date: 03/05/2014      Test Time: 11:33 EST

Technician Initials: HMS

Dry Gas Target: 0.150

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

Tank Pressure: 95 psi      Barometric Pressure: 762 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:34
BLK	0.000	11:34
CHK	0.150	11:35
BLK	0.000	11:37
CHK	0.150	11:38
BLK	0.000	11:39
CHK	0.150	11:40
BLK	0.000	11:42

**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: 010635      Test Number: 262  
Test Date: 03/05/2014      Test Time: 11:44 EST

Technician Initials: HMS

Dry Gas Target: 0.080

Lot Number: 07713080I2-04      Exp Date: 05/01/2015

Tank Pressure: 174 psi      Barometric Pressure: 762 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:44
BLK	0.000	11:45
CHK	0.080	11:45
BLK	0.000	11:47
CHK	0.080	11:48
BLK	0.000	11:49
CHK	0.080	11:50
BLK	0.000	11:51

**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: 010635      Test Number: 263  
Test Date: 03/05/2014      Test Time: 11:52 EST

Technician Initials: HMS

Dry Gas Target: 0.020

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

Tank Pressure: 129 psi      Barometric Pressure: 762 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:53
BLK	0.000	11:53
CHK	0.020	11:54
BLK	0.000	11:55
CHK	0.019	11:56
BLK	0.000	11:57
CHK	0.019	11:58
BLK	0.000	12:00

**Success**

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

Certification Status: Success

AMES  
mmb

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

*Department of Forensic Science*

Serial Number: 010635      Test Number: 264

Test Date: 03/05/2014      Test Time: 12:02 EST

Dry Gas Target: 0.301

Lot Number: AG322702-05      Exp Date: 08/15/2015

Tank Pressure: 365 psi      Barometric Pressure: 762 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:02
CHK	0.302	12:03
BLK	0.000	12:05
CHK	0.302	12:06
BLK	0.000	12:08
CHK	0.301	12:09

Test Status: *Success*

Calibration CRC: F73C810A

HMS  
mmB

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

*Department of Forensic Science*

Serial Number: 010635      Test Number: 265

Test Date: 03/05/2014      Test Time: 12:11 EST

Dry Gas Target: 0.100

Lot Number: AG316301-29      Exp Date: 06/12/2015

Tank Pressure: 1110 psi      Barometric Pressure: 762 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:12
CHK	0.099	12:13
BLK	0.000	12:14
CHK	0.099	12:15
BLK	0.000	12:17
CHK	0.099	12:17

Test Status: *Success*

Calibration CRC: F73C810A



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

*HMS*  
*Mmb*

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>STANTON, HEATHER, M</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>18910</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>03/05/2014</b>
TEST EQUIPMENT NUMBER <b>010635</b>		

RESULTS: TIME SAMPLE TAKEN 12:26 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 06 Mar 2014 at 07:54

*Handwritten initials:* HNS  
mmB

Test Results

**Instrument Serial Number 010635**

<b>Test # 000266</b>	<b>Subject Test</b>		
Test Location 1 Department of		Test Location 2 Forensic Science	Test Location 3
Test Date 05 Mar 2014		Test Time 12:20	System Check Passed
		Remote/Local Local	
Operator's Last Name STANTON		Operator's First Name HEATHER	Operator's Middle Initial M
Agency DFS Central Lab		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 05 Mar 2014	End Time 12:27	Result Time 12:26	Result Date 05 Mar 2014 Result 0.00
Data Type DIAG		Sample Value Pass	Sample Time 12:20
Data Type BLK		Sample Value 0.000	Sample Time 12:21
Data Type CHK		Sample Value 0.099	Sample Time 12:22
Data Type BLK		Sample Value 0.000	Sample Time 12:23
Data Type SUBJ		Sample Value 0.000	Sample Time 12:24
Data Type BLK		Sample Value 0.000	Sample Time 12:25
Data Type SUBJ		Sample Value 0.000	Sample Time 12:26
Data Type BLK		Sample Value 0.000	Sample Time 12:27
Standard Type Dry Gas Std		Standard Value 0.100	
Standard Lot Number AG316301-29		Standard Expiration Date 06/12/2015	
Tank Pressure 1100		Barometric Pressure 762 mmHg	
Blow Sample Number 1	Blow Duration 3.57 sec	Blow Volume 1747 cc	End-of-Blow Time 12:24
Blow Sample Number 2	Blow Duration 3.29 sec	Blow Volume 1738 cc	End-of-Blow Time 12:26
Tamper Evident Stamp 5c70622b		Test Status Code 0	
Test Status Success			