



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: 010660
CERTIFICATION DATE: September 3, 2014
DATE RECERTIFICATION DUE: March 2, 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 ± 0.007 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.

Handwritten signature of Michelle M. Billeter

Michelle M. Billeter
Forensic Scientist

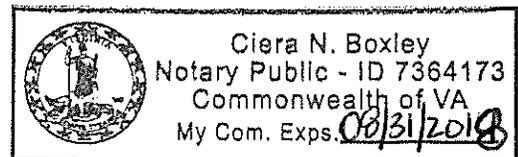
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 4th day of September, 2014 by Michelle M. Billeter

Handwritten signature of Ciera N. Boxley
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018

Handwritten initials 'MOK'



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
9/3/2013 To 9/3/2014

HMS
mmB

Instrument Serial Number: 010660

As of 04-Sep-14

Maintenance Date	Certification Date	Technician Initials	Remarks
03-Sep-14	03-Sep-14	HMS (18910)	CERTIFIED, REPLACED UPS BACK-UP BATTERY.
21-Mar-14	21-Mar-14	HMS (18910)	CERTIFIED
02-Oct-13	02-Oct-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.

UPS
mmb

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010660** Worksheet Start Date **9/3/2014**

Location **NAS Oceana**

Address **1750 Tomcat Blvd., Virginia Beach, VA 23460**

DFS Technician **Heather Stanton** License No. **18910**

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **760** Reference Barometer (mm HG) **762**

Reference Barometer(RB)Serial # **009113** RB Calibration Due **4/28/2015**

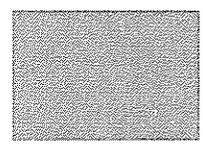
Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.300	0.291	0.309	0.300	0.301	0.299
Precision		sample min	sample max			
0.002		0.299	0.301			

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

Dry gas standard Lot No. (with tank no.) **AG320502-03**

- Replaced dry gas standard (+O-ring)
 - Installed at Location
 - Removed to DFS-Central
- Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

Replaced back-up battery.

UPS
mmb
5/2-114

Instrument Serial Number

010660

Certification Date

9/3/2014

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	0.252
0.250	0.250	0.242	0.257	Sample 2	0.251
Precision		sample min	sample max	Sample 3	0.251
0.001		0.251	0.252		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.152
0.150	0.150	0.145	0.154	Sample 2	0.152
Precision		sample min	sample max	Sample 3	0.151
0.001		0.151	0.152		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	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	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

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

DFS Technician

Heath M. Stutz

Date

9/4/14

Issuing Analyst

Michelle Ballew

Date

9/4/14

msk

HMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010660 Test Number: 545
Test Date: 09/03/2014 Test Time: 13:22 EDT

Technician Initials: HMS

Dry Gas Target: 0.250

Lot Number: 1611425014-03 Exp Date: 07/05/2016

Tank Pressure: 806 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:22
BLK	0.000	13:23
CHK	0.252	13:24
BLK	0.000	13:25
CHK	0.251	13:26
BLK	0.000	13:28
CHK	0.251	13:28
BLK	0.000	13:30

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: 010660 Test Number: 546
Test Date: 09/03/2014 Test Time: 13:32 EDT

Technician Initials: HMS

Dry Gas Target: 0.150

Lot Number: 07713150I3-01 Exp Date: 05/01/2015

Tank Pressure: 71 psi Barometric Pressure: 760 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:32
BLK	0.000	13:33
CHK	0.152	13:34
BLK	0.000	13:35
CHK	0.152	13:36
BLK	0.000	13:37
CHK	0.151	13:38
BLK	0.000	13:39

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: 010660 Test Number: 547
Test Date: 09/03/2014 Test Time: 13:42 EDT

Technician Initials: HMS

Dry Gas Target: 0.080

Lot Number: 34413080I2-01 Exp Date: 01/01/2016
Tank Pressure: 938 psi Barometric Pressure: 760 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:42
BLK	0.000	13:43
CHK	0.080	13:44
BLK	0.000	13:45
CHK	0.080	13:46
BLK	0.000	13:47
CHK	0.080	13:48
BLK	0.000	13:49

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: 010660 Test Number: 548
Test Date: 09/03/2014 Test Time: 13:50 EDT

Technician Initials: HMS
Dry Gas Target: 0.020
Lot Number: 3441302011-02 Exp Date: 01/01/2016
Tank Pressure: 546 psi Barometric Pressure: 760 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:50
BLK	0.000	13:51
CHK	0.019	13:52
BLK	0.000	13:53
CHK	0.019	13:54
BLK	0.000	13:55
CHK	0.019	13:56
BLK	0.000	13:57

Success

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

Certification Status: Success

HMS
mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010660 Test Number: 549

Test Date: 09/03/2014 Test Time: 14:00 EDT

Dry Gas Target: 0.300

Lot Number: AG421201-01 Exp Date: 07/31/2016

Tank Pressure: 252 psi Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:00
CHK	0.302	14:01
BLK	0.000	14:03
CHK	0.301	14:04
BLK	0.000	14:06
CHK	0.301	14:07

Test Status: *Success*

Calibration CRC: 60615533

THS
mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010660 Test Number: 550

Test Date: 09/03/2014 Test Time: 14:16 EDT

Dry Gas Target: 0.100

Lot Number: AG320502-03 Exp Date: 07/24/2015

Tank Pressure: 992 psi Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:17
CHK	0.100	14:18
BLK	0.000	14:20
CHK	0.100	14:20
BLK	0.000	14:22
CHK	0.100	14:22

Test Status: *Success*

Calibration CRC: 60615533

Replaced UPS Back-up battery.

THS
9/3/14

HMG
mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010660 Test Number: 551

Test Date: 09/03/2014 Test Time: 14:32 EDT

Dry Gas Target: 0.300

Lot Number: AG421201-01 Exp Date: 07/31/2016

Tank Pressure: 242 psi Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:32
CHK	0.300	14:33
BLK	0.000	14:35
CHK	0.301	14:36
BLK	0.000	14:37
CHK	0.299	14:39

Test Status: *Success*

Calibration CRC: 60615533

THQ
mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010660 Test Number: 552
Test Date: 09/03/2014 Test Time: 14:41 EDT
Dry Gas Target: 0.100

Lot Number: AG320502-03 Exp Date: 07/24/2015
Tank Pressure: 977 psi Barometric Pressure: 759 mmHg
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:42
CHK	0.099	14:42
BLK	0.000	14:44
CHK	0.099	14:45
BLK	0.000	14:46
CHK	0.099	14:47

Test Status: *Success*

Calibration CRC: 60615533

hms
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 09/03/2014
TEST EQUIPMENT NUMBER 010660		

RESULTS: TIME SAMPLE TAKEN 14:56 EDT

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: HMB
mmB

Test Results

Instrument Serial Number 010660

Test # 000553 Subject Test

Test Location 1 Department of
Test Date 03 Sep 2014

Test Location 2 Forensic Science
Test Time 14:50
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 03 Sep 2014 End Time 14:57

Result Time 14:56

Result Date 03 Sep 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:50

Data Type BLK

Sample Value 0.000

Sample Time 14:51

Data Type CHK

Sample Value 0.099

Sample Time 14:51

Data Type BLK

Sample Value 0.000

Sample Time 14:53

Data Type SUBJ

Sample Value 0.000

Sample Time 14:53

Data Type BLK

Sample Value 0.000

Sample Time 14:54

Data Type SUBJ

Sample Value 0.000

Sample Time 14:56

Data Type BLK

Sample Value 0.000

Sample Time 14:57

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG320502-03

Standard Expiration Date 07/24/2015

Tank Pressure 968

Barometric Pressure 760 mmHg

Blow Sample Number 1 Blow Duration 3.46 sec

Blow Volume 1787 cc End-of-Blow Time 14:53

Blow Sample Number 2 Blow Duration 3.58 sec

Blow Volume 1783 cc End-of-Blow Time 14:56

Tamper Evident Stamp 9863b3e4

Test Status Code 0

Test Status Success