



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: 010565
CERTIFICATION DATE: February 19, 2014
DATE RECERTIFICATION DUE: August 18, 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.

Signature of Sarah E. Dersch
Sarah E. Dersch
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 28th day of February, 2014 by Sarah E. Dersch

Signature of Ciera N. Boxley
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/24/2014

HMS
SD

Instrument Serial Number: 010565

As of 24-Feb-14

Maintenance Date	Certification Date	Technician Initials	Remarks
19-Feb-14	19-Feb-14	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
03-Sep-13	03-Sep-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
26-Mar-13	26-Mar-13	DBH (21250)	REPLACED PRINTER. CERTIFIED. REPLACED DRY GAS STANDARD.
10-Oct-12	10-Oct-12	TLN (25387)	CERTIFIED
26-Apr-12	26-Apr-12	DBH (21250)	CERTIFIED
26-Mar-12	26-Mar-12	DBH (21250)	REPLACED REGULATOR. CERTIFIED
27-May-11	27-May-11	RJP (22428)	REPLACED TANK TOP LID. CERTIFIED.
24-Feb-11	24-Feb-11	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
08-Sep-10	08-Sep-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
23-Mar-10	23-Mar-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
08-Oct-09	08-Oct-09	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
21-Apr-09	21-Apr-09	RJP (22428)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
04-Dec-08	04-Dec-08	RJP (22428)	CERTIFIED.
05-Nov-08	05-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

AMS
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INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010565** Worksheet Start Date **2/19/2014**
 Location **Norton Police Department**
 Address **618 Virginia Ave., Norton, VA 24273**
 DFS Technician **Heather Stanton** License No. **18910**

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **702** Reference Barometer (mm HG) **705**
 Reference Barometer(RB)Serial # **009113** RB Calibration Due **5/8/2014**

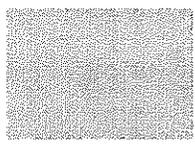
Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.277	0.268	0.285	0.280	0.280	0.280
Precision		sample min	sample max			
0		0.280	0.280			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.092	0.089	0.095	0.092	0.092	0.093
Precision		sample min	sample max			
0.001		0.092	0.093			

Dry gas standard Lot No. (with tank no.) **AG400202-41**

- 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 dense, noisy pattern, likely a redacted notes section.]

Instrument Serial Number

010565

Certification Date

2/19/2014

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	0.231
0.250	0.231	0.224	0.237	Sample 2	0.231
Precision		sample min	sample max	Sample 3	0.231
0		0.231	0.231		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.139
0.150	0.139	0.134	0.143	Sample 2	0.139
Precision		sample min	sample max	Sample 3	0.139
0		0.139	0.139		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.074
0.080	0.074	0.071	0.077	Sample 2	0.074
Precision		sample min	sample max	Sample 3	0.074
0		0.074	0.074		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.018
0.020	0.019	0.016	0.022	Sample 2	0.018
Precision		sample min	sample max	Sample 3	0.018
0		0.018	0.018		

All measurements are in g/210L

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

DFS Technician

Heather M. Stach

Date

2/24/14

Issuing Analyst

Jed

Date

2/27/14

HMS
sid

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010565 Test Number: 617
Test Date: 02/19/2014 Test Time: 12:39 EST

Technician Initials: HMS

Dry Gas Target: 0.231

Lot Number: 07713250I4-02 Exp Date: 05/01/2015

Tank Pressure: 669 psi Barometric Pressure: 703 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:40
BLK	0.000	12:40
CHK	0.231	12:41
BLK	0.000	12:43
CHK	0.231	12:44
BLK	0.000	12:45
CHK	0.231	12:46
BLK	0.000	12:47

Success

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

Certification Status: Continued

HMS
Sud

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010565 Test Number: 618
Test Date: 02/19/2014 Test Time: 12:49 EST

Technician Initials: HMS

Dry Gas Target: 0.139

Lot Number: 2951215012-02 Exp Date: 11/01/2014
Tank Pressure: 144 psi Barometric Pressure: 702 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:49
BLK	0.000	12:50
CHK	0.139	12:51
BLK	0.000	12:52
CHK	0.139	12:53
BLK	0.000	12:54
CHK	0.139	12:55
BLK	0.000	12:57

Success

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

Certification Status: Continued

HMS
Jed

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010565 Test Number: 619
Test Date: 02/19/2014 Test Time: 12:58 EST

Technician Initials: HMS

Dry Gas Target: 0.074

Lot Number: 0771308012-04 Exp Date: 05/01/2015
Tank Pressure: 237 psi Barometric Pressure: 702 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:58
BLK	0.000	12:59
CHK	0.074	13:00
BLK	0.000	13:01
CHK	0.074	13:02
BLK	0.000	13:03
CHK	0.074	13:04
BLK	0.000	13:05

Success

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

Certification Status: Continued

HMS
Jed

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010565 Test Number: 620
Test Date: 02/19/2014 Test Time: 13:06 EST

Technician Initials: HMS

Dry Gas Target: 0.019

Lot Number: 0771302011-04 Exp Date: 05/01/2015
Tank Pressure: 227 psi Barometric Pressure: 702 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:07
BLK	0.000	13:08
CHK	0.018	13:08
BLK	0.000	13:10
CHK	0.018	13:10
BLK	0.000	13:12
CHK	0.018	13:12
BLK	0.000	13:14

Success

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

Certification Status: Success

Handwritten initials/signature

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010565 Test Number: 621

Test Date: 02/19/2014 Test Time: 13:16 EST

Dry Gas Target: 0.277

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

Tank Pressure: 477 psi Barometric Pressure: 702 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:16
CHK	0.280	13:17
BLK	0.000	13:19
CHK	0.280	13:20
BLK	0.000	13:22
CHK	0.280	13:22

Test Status: *Success*

Calibration CRC: F3943994

HMS
Fol

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010565 Test Number: 622

Test Date: 02/19/2014 Test Time: 13:25 EST

Dry Gas Target: 0.092

Lot Number: AG400202-41 Exp Date: 01/02/2016

Tank Pressure: 1115 psi Barometric Pressure: 702 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:26
CHK	0.092	13:27
BLK	0.000	13:29
CHK	0.092	13:29
BLK	0.000	13:31
CHK	0.093	13:31

Test Status: *Success*

Calibration CRC: F3943994

HMS
Jed



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 02/19/2014
TEST EQUIPMENT NUMBER 010565		

RESULTS: TIME SAMPLE TAKEN 13:39 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

FOR COURT



IntoxNet MIS Report
Report Generated 24 Feb 2014 at 08:51

AMS
SL

Test Results

Instrument Serial Number 010565

Test # 000623 Subject Test

Test Location 1 Department of
Test Date 19 Feb 2014

Test Location 2 Forensic Science
Test Time 13:33
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab
Card Serial Number 118910

Operator's First Name HEATHER

Operator's Middle Initial M
License Number 18910

Subject's Last Name INSTRUMENT
Subject's Middle Initial

Effective Date 10/01/2012

Expiration Date 10/01/2014

Driver's License Number

Subject's Date of Birth 00/00/0000

Subject's First Name TEST

Subject's Sex Male

Driver's License State

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 19 Feb 2014 End Time 13:40

Result Time 13:39

Result Date 19 Feb 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:33

Data Type BLK

Sample Value 0.000

Sample Time 13:34

Data Type CHK

Sample Value 0.092

Sample Time 13:35

Data Type BLK

Sample Value 0.000

Sample Time 13:36

Data Type SUBJ

Sample Value 0.000

Sample Time 13:37

Data Type BLK

Sample Value 0.000

Sample Time 13:38

Data Type SUBJ

Sample Value 0.000

Sample Time 13:39

Data Type BLK

Sample Value 0.000

Sample Time 13:40

Standard Type Dry Gas Std

Standard Value 0.092

Standard Lot Number AG400202-41

Standard Expiration Date 01/02/2016

Tank Pressure 1115

Barometric Pressure 702 mmHg

Blow Sample Number 1 Blow Duration 3.47 sec

Blow Volume 1758 cc End-of-Blow Time 13:37

Blow Sample Number 2 Blow Duration 3.52 sec

Blow Volume 1756 cc End-of-Blow Time 13:39

Tamper Evident Stamp e3909f17

Test Status Code 0

Test Status Success