



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY
A Nationally Accredited Laboratory

737 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010609
DATE CERTIFICATION METHOD PERFORMED: April 17, 2015
DATE RECERTIFICATION DUE: October 14, 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 ± 0.008 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.008 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 21st day of April, 2015 by Sarah E. Dersch

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

My commission expires: August 31, 2018

Notary Public seal for Ciera N. Boxley, ID 7364173, Commonwealth of VA, My Com. Exps. 08/31/2018

SED

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
4/17/2014 To 4/17/2015**

Instrument Serial Number: 010609

As of 17-Apr-15

Maintenance Date	Certification Date	Technician Initials	Remarks
17-Apr-15	17-Apr-15	SED (24178)	CERTIFIED.
21-Oct-14	21-Oct-14	DBH (21250)	CERTIFIED.
02-May-14	02-May-14	HMS (18910)	CERTIFIED

Ind

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number: 010609 Worksheet Start Date: 4/17/2015

Location: DFS Central

Address: 737 North 5th Street, Richmond VA 23219

DFS Technician: Sarah Dersch License No.: 24178

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG): 757 Reference Barometer (mm HG): 761

Reference Barometer(RB)Serial #: 009110 RB Calibration Due: 5/28/2015

Measurement Assurance Check

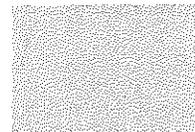
Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.302
0.300	0.299	0.290	0.307	Sample 2	0.303
Precision		sample min	sample max	Sample 3	0.302
0.001		0.302	0.303		

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

Dry gas standard Lot No. (with tank no.) AG316301-27

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

- Supplies
- Mouthpieces
- Certificates of Analysis
- Operator Worksheet
- Other:



Notes:

Instrument Serial Number

010609

Certification Date

4/17/2015

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	0.248
0.250	0.249	0.241	0.256	Sample 2	0.249
Precision		sample min	sample max	Sample 3	0.249
0.001		0.248	0.249		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.150
0.150	0.149	0.144	0.153	Sample 2	0.150
Precision		sample min	sample max	Sample 3	0.150
0		0.150	0.150		

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

[Handwritten signature]

Date

4/17/15

Issuing Analyst

[Handwritten signature]
JPD

Date

4/17/15

jad

Inlox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010609 Test Number: 925
Test Date: 04/17/2015 Test Time: 09:33 EDT

Technician Initials: SED

Dry Gas Target: 0.249

Lot Number: 1611425014-04 Exp Date: 07/05/2016

Tank Pressure: 51 psi Barometric Pressure: 757 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:33
BLK	0.000	09:34
CHK	0.248	09:35
BLK	0.000	09:36
CHK	0.249	09:37
BLK	0.000	09:38
CHK	0.249	09:39
BLK	0.000	09:41

Success

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

Certification Status: Continued

sed

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010609 Test Number: 826

Test Date: 04/17/2015 Test Time: 09:45 EDT

Technician Initials: SED

Dry Gas Target: 0.149

Lot Number: 1611415013-03 Exp Date: 07/05/2016

Tank Pressure: 688 psi Barometric Pressure: 757 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:52
ELK	0.000	09:53
CHK	0.150	09:53
BLK	0.000	09:55
CHK	0.150	09:55
BLK	0.000	09:57
CHK	0.150	09:57
ELK	0.000	09:59

Success

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

Certification Status: Continued

SED

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: *010609* Test Number: *827*
Test Date: *04/17/2015* Test Time: *10:00 EDT*

Technician Initials: *SED*

Dry Gas Target: *0.080*

Lot Number: *1611408012-02* Exp Date: *07/05/2016*

Tank Pressure: *566 psi* Barometric Pressure: *757 mmHg*

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:01
BLK	0.000	10:01
CHK	0.080	10:02
BLK	0.000	10:04
CHK	0.080	10:04
BLK	0.000	10:06
CHK	0.080	10:06
BLK	0.000	10:08

Success

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

Certification Status: *Continued*

sed

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010609 Test Number: 928
Test Date: 04/17/2015 Test Time: 10:09 EDT

Technician Initials: *SED*

Dry Gas Target: 0.020

Lot Number: 1611402011-01 Exp Date: 07/05/2016

Tank Pressure: 703 psi Barometric Pressure: 757 mmHg
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:09
ELK	0.000	10:10
CHK	0.019	10:11
ELK	0.000	10:12
CHK	0.019	10:13
ELK	0.000	10:14
CHK	0.019	10:15
ELK	0.000	10:16

Success

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

Certification Status: Success

Sid

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010609 Test Number: 829

Test Date: 04/17/2015 Test Time: 10:19 EDT

Dry Gas Target: 0.299

Lot Number: AG428003-12 Exp Date: 10/07/2016

Tank Pressure: 120 psi Barometric Pressure: 757 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:19
CHK	0.302	10:20
BLK	0.000	10:22
CHK	0.303	10:23
BLK	0.000	10:24
CHK	0.302	10:25

Test Status: *Success*

Calibration CRC: DF0AA0B5

YLR

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010609 Test Number: 830

Test Date: 04/17/2015 Test Time: 10:30 EDT

Dry Gas Target: 0.100

Lot Number: AG316301-37 Exp Date: 06/18/2015

Tank Pressure: 134 psi Barometric Pressure: 757 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:31
CHK	0.099	10:32
BLK	0.000	10:33
CHK	0.099	10:34
BLK	0.000	10:35
CHK	0.099	10:36

Test Status: *Success*

Calibration CRC: DF0AA0B5

jed

INSTRUMENT, TEST,

DFS

DEBSCH, SARAH, E

DFS Central Lab

24178

10/01/2016

04/17/2015

010600

04/17/2015

10:47 EDT

0.00



IntoxNet MIS Report

Report Generated 17 Apr 2015 at 10:53

fid

Test Results

Instrument Serial Number 010609

Test # 000831 **Subject Test**

Test Location 1 Department of
Test Date 17 Apr 2015

Test Location 2 Forensic Science
Test Time 10:40
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name DERSCH
Agency DFS Central Lab

Operator's First Name SARAH

Operator's Middle Initial E

Card Serial Number 124178

Effective Date 10/01/2014

License Number 24178

Expiration Date 10/01/2016

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 17 Apr 2015 **End Time** 10:48

Result Time 10:47

Result Date 17 Apr 2015 **Result** 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:41

Data Type BLK

Sample Value 0.000

Sample Time 10:42

Data Type CHK

Sample Value 0.099

Sample Time 10:42

Data Type BLK

Sample Value 0.000

Sample Time 10:44

Data Type SUBJ

Sample Value 0.000

Sample Time 10:45

Data Type BLK

Sample Value 0.000

Sample Time 10:46

Data Type SUBJ

Sample Value 0.000

Sample Time 10:47

Data Type BLK

Sample Value 0.000

Sample Time 10:48

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG316301-27

Standard Expiration Date 06/12/2015

Tank Pressure 129

Barometric Pressure 756 mmHg

Blow Sample Number 1 **Blow Duration** 5.24 sec

Blow Volume 2561 cc **End-of-Blow Time** 10:45

Blow Sample Number 2 **Blow Duration** 3.20 sec

Blow Volume 1784 cc **End-of-Blow Time** 10:47

Tamper Evident Stamp be6342e4

Test Status Code 0

Test Status Success