



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: 010537
CERTIFICATION DATE: March 24, 2014
DATE RECERTIFICATION DUE: September 20, 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]
Sarah E. Dersch
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 1st day of April, 2014 by Sarah E. Dersch

[Signature: Ciera N. Boxley]
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

MSK

[Notary Seal: Ciera N. Boxley, Notary Public - ID 7364173, Commonwealth of VA, My Com. Exps. 08/31/2014]

HMS
sid

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 3/24/2014**

Instrument Serial Number: 010537

As of 24-Mar-14

Maintenance Date	Certification Date	Technician Initials	Remarks
24-Mar-14	24-Mar-14	HMS (18910)	CERTIFIED
24-Sep-13	24-Sep-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
24-Apr-13	24-Apr-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
20-Nov-12	16-Nov-12	HMS (18910)	REPLACED UPS BACK-UP BATTERY.
16-Nov-12	16-Nov-12	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
06-Jun-12	06-Jun-12	DBH (21250)	CERTIFIED
20-Dec-11	20-Dec-11	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
07-Jul-11	07-Jul-11	DBH (21250)	CERTIFIED
28-Jan-11	28-Jan-11	DBH (21250)	CERTIFIED
11-Aug-10	11-Aug-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
03-May-10	03-May-10	DBH (21250)	CERTIFIED
16-Feb-10	16-Feb-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
28-Aug-09	28-Aug-09	DBH (21250)	CERTIFIED.
12-Mar-09	12-Mar-09	DBH (21250)	CERTIFIED.
05-Mar-09	05-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
11-Dec-08	11-Dec-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

HHS
sml

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010537** Worksheet Start Date **3/24/2014**

Location **DFS-Central**

Address **[Redacted]**

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) **763**

Reference Barometer(RB)Serial # **009113** RB Calibration Due **5/8/2014**

Measurement Assurance Check

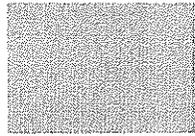
Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.300	0.291	0.309	0.304	0.304	0.304
Precision		sample min	sample max			
0		0.304	0.304			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.100	0.097	0.103	0.101	0.101	0.101
Precision		sample min	sample max			
0		0.101	0.101			

Dry gas standard Lot No. (with tank no.) **AG211702-07**

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

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

[Redacted Notes Area]

Instrument Serial Number

010537

Certification Date

3/24/2014

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

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

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 W. Stach

Date

3/24/14

Issuing Analyst

Jed

Date

3/27/14

msk

HMS
Sed

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010537 Test Number: 1442
Test Date: 03/24/2014 Test Time: 12:49 EDT

Technician Initials: HMS

Dry Gas Target: 0.250

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

Tank Pressure: 487 psi Barometric Pressure: 759 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	12:50
BLK	0.000	12:50
CHK	0.251	12:51
BLK	0.000	12:53
CHK	0.251	12:54
BLK	0.000	12:55
CHK	0.250	12:56
BLK	0.000	12:58

Success

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

Certification Status: Continued

HMS
gud

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010537 Test Number: 1443
Test Date: 03/24/2014 Test Time: 13:01 EDT

Technician Initials: HMS

Dry Gas Target: 0.150

Lot Number: 06512150I4-04 Exp Date: 04/01/2014

Tank Pressure: 575 psi Barometric Pressure: 759 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	13:02
BLK	0.000	13:03
CHK	0.150	13:03
BLK	0.000	13:05
CHK	0.151	13:06
BLK	0.000	13:07
CHK	0.150	13:08
BLK	0.000	13:09

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: 010537 Test Number: 1444
Test Date: 03/24/2014 Test Time: 13:13 EDT

Technician Initials: HMS

Dry Gas Target: 0.080

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

Tank Pressure: 110 psi Barometric Pressure: 759 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:13
BLK	0.000	13:14
CHK	0.080	13:15
BLK	0.000	13:16
CHK	0.080	13:17
BLK	0.000	13:18
CHK	0.080	13:19
BLK	0.000	13:20

Success

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

Certification Status: Continued

HMS
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Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010537 Test Number: 1445
Test Date: 03/24/2014 Test Time: 13:22 EDT

Technician Initials: HMS

Dry Gas Target: 0.020

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

Tank Pressure: 1017 psi Barometric Pressure: 759 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:23
BLK	0.000	13:24
CHK	0.019	13:25
BLK	0.000	13:26
CHK	0.019	13:27
BLK	0.000	13:28
CHK	0.019	13:29
BLK	0.000	13:30

Success

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

Certification Status: Success

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Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010537 Test Number: 1446

Test Date: 03/24/2014 Test Time: 13:34 EDT

Dry Gas Target: 0.300

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

Tank Pressure: 134 psi Barometric Pressure: 759 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:35
CHK	0.304	13:36
BLK	0.000	13:37
CHK	0.304	13:38
BLK	0.000	13:40
CHK	0.304	13:41

Test Status: *Success*

Calibration CRC: 6B8E7224

AMS
jed

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010537 Test Number: 1447

Test Date: 03/24/2014 Test Time: 13:47 EDT

Dry Gas Target: 0.100

Lot Number: AG211702-07 Exp Date: 04/26/2014

Tank Pressure: 365 psi Barometric Pressure: 759 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:48
CHK	0.101	13:48
BLK	0.000	13:50
CHK	0.101	13:51
BLK	0.000	13:52
CHK	0.101	13:53

Test Status: *Success*

Calibration CRC: 6B8E7224

HMS
Jed

INSTRUMENT, TEST,

DFS

STANTON, HEATHER, M

DFS Central Lab

18910

10/01/2014

03/24/2014

010537

03/24/2014

14:01 EDT

0.00



IntoxNet MIS Report
Report Generated 24 Mar 2014 at 14:11

Handwritten initials/signature

Test Results

Instrument Serial Number 010537

Test # 001448 Subject Test

Test Location 1 Department of
Test Date 24 Mar 2014

Test Location 2 Forensic Science
Test Time 13:54
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 24 Mar 2014 End Time 14:02

Result Time 14:01

Result Date 24 Mar 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:55

Data Type BLK

Sample Value 0.000

Sample Time 13:56

Data Type CHK

Sample Value 0.101

Sample Time 13:56

Data Type BLK

Sample Value 0.000

Sample Time 13:58

Data Type SUBJ

Sample Value 0.000

Sample Time 13:59

Data Type BLK

Sample Value 0.000

Sample Time 14:00

Data Type SUBJ

Sample Value 0.000

Sample Time 14:01

Data Type BLK

Sample Value 0.000

Sample Time 14:02

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG211702-07

Standard Expiration Date 04/26/2014

Tank Pressure 360

Barometric Pressure 759 mmHg

Blow Sample Number 1 Blow Duration 3.30 sec

Blow Volume 1769 cc End-of-Blow Time 13:59

Blow Sample Number 2 Blow Duration 3.23 sec

Blow Volume 1773 cc End-of-Blow Time 14:01

Tamper Evident Stamp 7d31de79

Test Status Code 0

Test Status Success