



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: 010569
CERTIFICATION DATE: August 28, 2014
DATE RECERTIFICATION DUE: February 24, 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.

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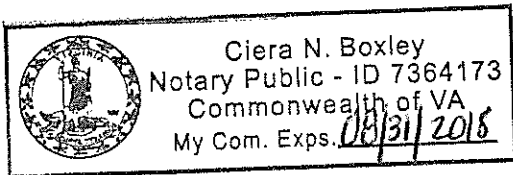
Timmy L. Neece, Jr.
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 8th day of September, 2014 by Timmy L. Neece, Jr.

[Handwritten signature: Ciera N. Boxley]

Ciera N. Boxley, Notary Public
My commission expires: August 31, 2018



DB/
TLW

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
8/28/2013 To 9/3/2014**

Instrument Serial Number: 010569

As of 03-Sep-14

Maintenance Date	Certification Date	Technician Initials	Remarks
28-Aug-14	28-Aug-14	DBH (21250)	CERTIFIED.
14-Mar-14	14-Mar-14	HMS (18910)	CERTIFIED
25-Sep-13	25-Sep-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.

DBH
RLW

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number Worksheet Start Date

Location

Address

DFS Technician License No.

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) Reference Barometer (mm HG)

Reference Barometer(RB)Serial # RB Calibration Due

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.298
0.300	0.297	0.288	0.305	Sample 2	0.297
Precision		sample min	sample max	Sample 3	0.297
0.001		0.297	0.298		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.100
0.100	0.099	0.096	0.102	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.100
0		0.100	0.100		

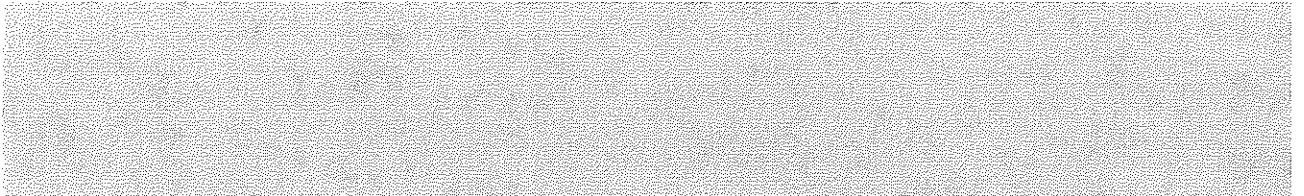
Dry gas standard Lot No. (with tank no.)

- 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

010569

Certification Date

8/28/2014

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	0.247
0.250	0.248	0.240	0.255	Sample 2	0.247
Precision		sample min	sample max	Sample 3	0.246
0.001		0.246	0.247		

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

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.079
0.080	0.079	0.076	0.082	Sample 2	0.079
Precision		sample min	sample max	Sample 3	0.079
0		0.079	0.079		

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

Donald B Hall

Date

9/3/14

Issuing Analyst

[Signature]

Date

9/3/14

mmb

DE
Tlv

intox EC/IR-11: Certification

Department of Forensic Science

Serial Number: 010569 Test Number: 1220
Test Date: 08/28/2014 Test Time: 14:33 EDT

Technician Initials: DBH

Dry Gas Target: 0.248

Lot Number: 0771325014-01 Exp Date: 05/01/2015
Tank Pressure: 575 psi Barometric Pressure: 753 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:33
BLK	0.000	14:34
CHK	0.247	14:35
BLK	0.000	14:36
CHK	0.247	14:37
BLK	0.000	14:38
CHK	0.246	14:39
BLK	0.000	14:41

Success

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

Certification Status: Continued

DB
Tla

INTOX EC/IR-11: Certification

Department of Forensic Science

Serial Number: 010569 Test Number: 1221
Test Date: 08/28/2014 Test Time: 14:51 EDT

Technician Initials: DBH

Dry Gas Target: 0.149

Lot Number: 2951215012-04 Exp Date: 11/01/2014
Tank Pressure: 61 psi Barometric Pressure: 753 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:51
BLK	0.000	14:52
CHK	0.149	14:53
BLK	0.000	14:54
CHK	0.149	14:55
BLK	0.000	14:56
CHK	0.149	14:57
BLK	0.000	14:58

Success

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

Certification Status: Continued

DBH
TLW

Intox EC/IR-II: Certification

Department of Forensic Science
Serial Number: 010569 Test Number: 1222
Test Date: 08/28/2014 Test Time: 15:01 EDT

Technician Initials: DBH
Dry Gas Target: 0.079
Lot Number: 3441308012-02 Exp Date: 01/01/2016
Tank Pressure: 575 psi Barometric Pressure: 753 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:01
BLK	0.000	15:02
CHK	0.079	15:03
BLK	0.000	15:04
CHK	0.079	15:05
BLK	0.000	15:06
CHK	0.079	15:07
BLK	0.000	15:08

Success

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

Certification Status: Continued

Intox EC/IR-11: Certification

DB
TLW

Department of Forensic Science

Serial Number: 010569 Test Number: 1223
Test Date: 08/28/2014 Test Time: 15:13 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-03 Exp Date: 05/01/2015

Tank Pressure: 786 psi Barometric Pressure: 753 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:12
BLK	0.000	15:13
CHK	0.019	15:14
BLK	0.000	15:15
CHK	0.019	15:16
BLK	0.000	15:17
CHK	0.019	15:18
BLK	0.000	15:19

Success

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

Certification Status: Success

DBH
Tlw

Intox EC/IR-11: Accuracy Check

Department of Forensic Science

Serial Number: 010569 Test Number: 1224

Test Date: 08/28/2014 Test Time: 15:30 EDT

Dry Gas Target: 0.297

Lot Number: AG421201-06 Exp Date: 07/31/2016

Tank Pressure: 276 psi Barometric Pressure: 753 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	15:31
CHK	0.298	15:32
BLK	0.000	15:33
CHK	0.297	15:34
BLK	0.000	15:36
CHK	0.297	15:36

Test Status: Success

Calibration CRC: 99D190A9

INTOX EC/IR-11: Accuracy Check

TLW
9/3/14

DBH
TLW

Department of Forensic Science

Serial Number: 010569 Test Number: 1225
Test Date: 08/28/2014 Test Time: 15:45 EDT
System Check: Passed

Test status: DRY GAS TANK EMPTY

Calibration CRC: 99D190A9

DRY GAS STANDARD NOT INSTALLED.

DBH
9/3/14

DBH
TLW

Intox EC/iR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010569 Test Number: 1226

Test Date: 08/28/2014 Test Time: 15:46 EDT

Dry Gas Target: 0.099

Lot Number: AG226201-23 Exp Date: 09/18/2014

Tank Pressure: 208 psi Barometric Pressure: 753 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:47
CHK	0.100	15:48
BLK	0.000	15:50
CHK	0.100	15:50
BLK	0.000	15:52
CHK	0.100	15:52

Test Status: *Success*

Calibration CRC: 99D190A9

DBH
TLW

INSTRUMENT, TEST,

DFS

HALL, DONALD, B

DFS Central Lab

21250

10/01/2014

08/28/2014

010569

08/28/2014

16:04 EDT

0.00



IntoxNet MIS Report
Report Generated 28 Aug 2014 at 16:28

DBH
TLW

Test Results

Instrument Serial Number 010569

Test # 001227 Subject Test

Test Location 1 Department of
Test Date 28 Aug 2014

Test Location 2 Forensic Science
Test Time 15:57
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

License Number 21250

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 28 Aug 2014 End Time 16:05

Result Time 16:04

Result Date 28 Aug 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:58

Data Type BLK

Sample Value 0.000

Sample Time 15:59

Data Type CHK

Sample Value 0.100

Sample Time 15:59

Data Type BLK

Sample Value 0.000

Sample Time 16:01

Data Type SUBJ

Sample Value 0.000

Sample Time 16:01

Data Type BLK

Sample Value 0.000

Sample Time 16:02

Data Type SUBJ

Sample Value 0.000

Sample Time 16:04

Data Type BLK

Sample Value 0.000

Sample Time 16:05

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG226201-23

Standard Expiration Date 09/18/2014

Tank Pressure 203

Barometric Pressure 753 mmHg

Blow Sample Number 1 Blow Duration 3.44 sec

Blow Volume 1986 cc End-of-Blow Time 16:01

Blow Sample Number 2 Blow Duration 5.01 sec

Blow Volume 2469 cc End-of-Blow Time 16:04

Tamper Evident Stamp 88aed3bb

Test Status Code 0

Test Status Success