



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: 010563
CERTIFICATION DATE: February 5, 2014
DATE RECERTIFICATION DUE: August 4, 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.

Handwritten signature of Michelle M. Billeter

Michelle M. Billeter
Forensic Scientist

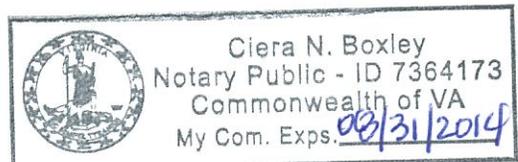
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 18th day of February, 2014 by Michelle M. Billeter

Handwritten signature of Ciera N. Boxley

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



msk

DBH
mmB

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/6/2014**

Instrument Serial Number: 010563

As of 06-Feb-14

Maintenance Date	Certification Date	Technician Initials	Remarks
05-Feb-14	05-Feb-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
13-Dec-13	22-Aug-13	TLN (25387)	REPLACED UPS BACK-UP BATTERY.
22-Aug-13	22-Aug-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
05-Mar-13	05-Mar-13	SED (24178)	CERTIFIED.
18-Sep-12	18-Sep-12	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.
28-Mar-12	28-Mar-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
07-Nov-11	07-Nov-11	TLN (25387)	CERTIFIED. REPLACED DRY GAS STANDARD.
23-May-11	23-May-11	DBH (21250)	CERTIFIED
25-Mar-11	25-Mar-11	DBH (21250)	REPLACED DRY GAS STANDARD, CALIBRATED AND CERTIFIED.
07-Dec-10	07-Dec-10	DBH (21250)	CERTIFIED
23-Jun-10	23-Jun-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
05-Jan-10	05-Jan-10	DBH (21250)	CERTIFIED
23-Nov-09	23-Nov-09	DBH (21250)	CERTIFIED
10-Nov-09	10-Nov-09	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
25-Aug-09	25-Aug-09	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED.
20-Apr-09	20-Apr-09	DBH (21250)	CERTIFIED.
15-Apr-09	15-Apr-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
13-Feb-09	13-Feb-09	DBH (21250)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
MMB

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010563** Worksheet Start Date **2/5/2014**
 Location **Caroline CO SO**
 Address **117 Ennis St Bowling Green VA 22427**
 DFS Technician **Donald Hall** License No. **21250**
 Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **747** Reference Barometer (mm HG) **749**
 Reference Barometer(RB)Serial # **009109** RB Calibration Due **8/1/2014**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.298
0.300	0.295	0.286	0.303	Sample 2	0.299
Precision		sample min	sample max	Sample 3	0.299
0.001		0.298	0.299		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.099
0.100	0.098	0.095	0.101	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.) **AG332301-28**

Replaced dry gas standard (+O-ring)

Installed at Location

Removed to DFS-Central

Supplies
 Mouthpieces **50**
 Certificates of Analysis **50**
 Operator Worksheet **50**
 Other:

Notes:

Instrument Serial Number

010563

Certification Date

2/5/2014

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	0.245
0.250	0.246	0.238	0.253	Sample 2	0.244
Precision		sample min	sample max	Sample 3	0.244
0.001		0.244	0.245		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.148
0.150	0.147	0.142	0.151	Sample 2	0.148
Precision		sample min	sample max	Sample 3	0.148
0		0.148	0.148		

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

2/6/14

Issuing Analyst

Michelle Buller

Date

2/7/14

MSK

DBH
MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010563 Test Number: 459
Test Date: 02/05/2014 Test Time: 14:33 EST

Technician Initials: DBH

Dry Gas Target: 0.246

Lot Number: 29612250I2-09 Exp Date: 11/01/2014
Tank Pressure: 522 psi Barometric Pressure: 747 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:33
BLK	0.000	14:34
CHK	0.245	14:35
BLK	0.000	14:36
CHK	0.244	14:37
BLK	0.000	14:39
CHK	0.244	14:40
BLK	0.000	14:41

Success

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

Certification Status: Continued

DBH
MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010563 Test Number: 460
Test Date: 02/05/2014 Test Time: 14:44 EST

Technician Initials: DBH

Dry Gas Target: 0.147

Lot Number: 29512150I2-03 Exp Date: 11/01/2014
Tank Pressure: 129 psi Barometric Pressure: 747 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:44
BLK	0.000	14:45
CHK	0.148	14:46
BLK	0.000	14:47
CHK	0.148	14:48
BLK	0.000	14:50
CHK	0.148	14:50
BLK	0.000	14:52

Success

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

Certification Status: Continued

Intox EC/IR-II: Certification

DBH
MMB

Department of Forensic Science

Serial Number: 010563 Test Number: 461
Test Date: 02/05/2014 Test Time: 14:55 EST

Technician Initials: DBH

Dry Gas Target: 0.079

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

Tank Pressure: 649 psi Barometric Pressure: 747 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:55
BLK	0.000	14:56
CHK	0.079	14:57
BLK	0.000	14:58
CHK	0.079	14:59
BLK	0.000	15:00
CHK	0.079	15:01
BLK	0.000	15:03

Success

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

Certification Status: Continued

DBH
MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010563 Test Number: 462
Test Date: 02/05/2014 Test Time: 15:05 EST

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-02 Exp Date: 05/01/2015
Tank Pressure: 600 psi Barometric Pressure: 747 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:05
BLK	0.000	15:06
CHK	0.019	15:07
BLK	0.000	15:08
CHK	0.019	15:09
BLK	0.000	15:10
CHK	0.019	15:11
BLK	0.000	15:12

Success

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

Certification Status: Success

DH
MMB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010563 Test Number: 463

Test Date: 02/05/2014 Test Time: 15:15 EST

Dry Gas Target: 0.295

Lot Number: AG322702-07 Exp Date: 08/15/2015

Tank Pressure: 115 psi Barometric Pressure: 747 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	15:16
CHK	0.298	15:17
BLK	0.000	15:19
CHK	0.299	15:20
BLK	0.000	15:22
CHK	0.299	15:23

Test Status: Success

Calibration CRC: 05F416BB

DBH
MMB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010563 Test Number: 464

Test Date: 02/05/2014 Test Time: 15:26 EST

Dry Gas Target: 0.098

Lot Number: AG332301-28 Exp Date: 11/19/2015

Tank Pressure: 1115 psi Barometric Pressure: 747 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	15:27
CHK	0.099	15:27
BLK	0.000	15:29
CHK	0.099	15:30
BLK	0.000	15:31
CHK	0.099	15:32

Test Status: Success

Calibration CRC: 05F416BB

DBH
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 HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 02/05/2014
TEST EQUIPMENT NUMBER 010563		

RESULTS: TIME SAMPLE TAKEN 15:42 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



IntoxNet MIS Report

Report Generated 05 Feb 2014 at 16:47

DBH
MMB

Test Results

Instrument Serial Number 010563

Test # 000465 Subject Test

Test Location 1 Department of
Test Date 05 Feb 2014

Test Location 2 Forensic Science
Test Time 15:35
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
License Number 21250

Card Serial Number 121250

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 05 Feb 2014 End Time 15:43

Result Time 15:42

Result Date 05 Feb 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:36

Data Type BLK

Sample Value 0.000

Sample Time 15:36

Data Type CHK

Sample Value 0.099

Sample Time 15:37

Data Type BLK

Sample Value 0.000

Sample Time 15:39

Data Type SUBJ

Sample Value 0.000

Sample Time 15:39

Data Type BLK

Sample Value 0.000

Sample Time 15:40

Data Type SUBJ

Sample Value 0.000

Sample Time 15:42

Data Type BLK

Sample Value 0.000

Sample Time 15:43

Standard Type Dry Gas Std

Standard Value 0.098

Standard Lot Number AG332301-28

Standard Expiration Date 11/19/2015

Tank Pressure 1115

Barometric Pressure 747 mmHg

Blow Sample Number 1 Blow Duration 3.29 sec

Blow Volume 1881 cc End-of-Blow Time 15:39

Blow Sample Number 2 Blow Duration 4.12 sec

Blow Volume 2215 cc End-of-Blow Time 15:42

Tamper Evident Stamp 79dac6f4

Test Status Code 0

Test Status Success