



# 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: 010441

CERTIFICATION DATE: February 21, 2014

DATE RECERTIFICATION DUE: August 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.

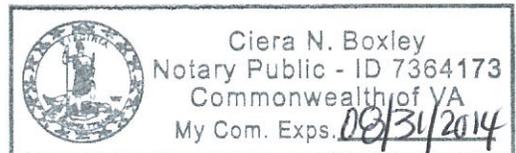
Timmy L. Neece, Jr.  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 4th day of March, 2014 by Timmy L. Neece, Jr.

Ciera N. Boxley  
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



*Handwritten initials*

DBH  
TLN

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 2/21/2014**

**Instrument Serial Number: 010441**

**As of 21-Feb-14**

<b>Maintenance Date</b>	<b>Certification Date</b>	<b>Technician Initials</b>	<b>Remarks</b>
21-Feb-14	21-Feb-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
05-Sep-13	05-Sep-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
20-Mar-13	20-Mar-13	DBH (21250)	CERTIFIED.
25-Sep-12	25-Sep-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
12-Apr-12	12-Apr-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
08-Nov-11	08-Nov-11	HMS (18910)	CERTIFIED
06-Jun-11	06-Jun-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
20-Dec-10	20-Dec-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
30-Jun-10	30-Jun-10	HMS (18910)	CERTIFIED
12-Jan-10	12-Jan-10	HMS (18910)	CERTIFIED
11-Aug-09	11-Aug-09	HMS (18910)	CERTIFIED.
30-Jul-09	30-Jul-09	RJP (22428)	REPLACED TANK TOP LID. CERTIFIED.
22-Jun-09	22-Jun-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
14-Nov-08	14-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH  
TLW

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010441** Worksheet Start Date **2/21/2014**  
 Location **Nottoway CO SO**  
 Address **266 W Courthouse Rd. Nottoway VA 23995**  
 DFS Technician **Donald Hall** License No. **21250**

Laboratory  On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **740** Reference Barometer (mm HG) **743**

Reference Barometer(RB)Serial # **009109** RB Calibration Due **8/1/2014**

### Measurement Assurance Check

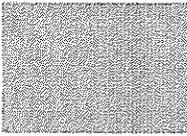
Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.293	0.284	0.301	0.293	0.294	0.293
Precision		sample min	sample max			
0.001		0.293	0.294			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.098	0.095	0.101	0.098	0.098	0.098
Precision		sample min	sample max			
0		0.098	0.098			

Dry gas standard Lot No. (with tank no.) **AG226201-19**

- 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

010441

Certification Date

2/21/2014

Calibrated

Certified

Measurement Assurance Check

Instrument Test

Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.240
0.250	0.243	0.235	0.250	<b>Sample 2</b>	0.240
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.240
0		0.240	0.240		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.146
0.150	0.146	0.141	0.150	<b>Sample 2</b>	0.146
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.146
0		0.146	0.146		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.078
0.080	0.078	0.075	0.081	<b>Sample 2</b>	0.078
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.078
0		0.078	0.078		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.019
0.020	0.020	0.017	0.023	<b>Sample 2</b>	0.019
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	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 5/20/14

Issuing Analyst [Signature] Date 2/24/14

DBH  
TLV

**Intox EC/IR-II: Certification**

*Department of Forensic Science*  
Serial Number: 010441      Test Number: 402  
Test Date: 02/21/2014      Test Time: 13:27 EST

Technician Initials: DBH  
Dry Gas Target: 0.243  
Lot Number: 29612250I2-09      Exp Date: 11/01/2014  
Tank Pressure: 409 psi      Barometric Pressure: 740 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:27
BLK	0.000	13:28
CHK	0.240	13:29
BLK	0.000	13:30
CHK	0.240	13:31
BLK	0.000	13:33
CHK	0.240	13:34
BLK	0.000	13:35

**Success**

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

Certification Status: Continued

DBH  
TLW

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010441      Test Number: 403  
Test Date: 02/21/2014      Test Time: 13:38 EST

Technician Initials: DBH

Dry Gas Target: 0.146

Lot Number: 29512150I2-03      Exp Date: 11/01/2014  
Tank Pressure: 56 psi      Barometric Pressure: 741 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:38
BLK	0.000	13:39
CHK	0.146	13:39
BLK	0.000	13:41
CHK	0.146	13:42
BLK	0.000	13:43
CHK	0.146	13:44
BLK	0.000	13:46

**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: 010441      Test Number: 404  
Test Date: 02/21/2014      Test Time: 13:48 EST

Technician Initials: DBH  
Dry Gas Target: 0.078  
Lot Number: 07713080I2-01      Exp Date: 05/01/2015  
Tank Pressure: 477 psi      Barometric Pressure: 741 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:49
BLK	0.000	13:49
CHK	0.078	13:50
BLK	0.000	13:51
CHK	0.078	13:52
BLK	0.000	13:53
CHK	0.078	13:54
BLK	0.000	13:56

**Success**

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

Certification Status: Continued

DBH  
TLW

**Intox EC/IR-II: Certification**

*Department of Forensic Science*  
Serial Number: 010441      Test Number: 405  
Test Date: 02/21/2014      Test Time: 13:57 EST

Technician Initials: DBH  
Dry Gas Target: 0.020  
Lot Number: 0771302011-02      Exp Date: 05/01/2015  
Tank Pressure: 482 psi      Barometric Pressure: 741 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:58
BLK	0.000	13:59
CHK	0.019	13:59
BLK	0.000	14:01
CHK	0.019	14:01
BLK	0.000	14:03
CHK	0.019	14:03
BLK	0.000	14:05

**Success**

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

Certification Status: Success

DBH  
YLN

### Intox EC/IR-II: Accuracy Check

*Department of Forensic Science*

Serial Number: 010441      Test Number: 406

Test Date: 02/21/2014      Test Time: 14:07 EST

Dry Gas Target: 0.293

Lot Number: AG322702-06      Exp Date: 08/15/2015

Tank Pressure: 453 psi      Barometric Pressure: 741 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:08
CHK	0.293	14:08
BLK	0.000	14:10
CHK	0.294	14:11
BLK	0.000	14:13
CHK	0.293	14:14

Test Status: *Success*

Calibration CRC: 05EB09E7

DGH  
TLN

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010441      Test Number: 407

Test Date: 02/21/2014      Test Time: 14:16 EST

Dry Gas Target: 0.098

Lot Number: AG226201-19      Exp Date: 09/18/2014

Tank Pressure: 835 psi      Barometric Pressure: 741 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:17
CHK	0.098	14:18
BLK	0.000	14:19
CHK	0.098	14:20
BLK	0.000	14:21
CHK	0.098	14:22

Test Status: *Success*

Calibration CRC: 05EB09E7

DBH  
TLW



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 <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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**BREATH ANALYSIS**

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>HALL, DONALD, B</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>21250</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>02/21/2014</b>
TEST EQUIPMENT NUMBER <b>010441</b>		

RESULTS: TIME SAMPLE TAKEN **14:31 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



DBH  
TLW

Test Results

**Instrument Serial Number 010441**

**Test # 000408**      Subject Test

Test Location 1 Department of  
Test Date 21 Feb 2014

Test Location 2 Forensic Science  
Test Time 14:24  
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 21 Feb 2014      End Time 14:32

Result Time 14:31

Result Date 21 Feb 2014      Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:25

Data Type BLK

Sample Value 0.000

Sample Time 14:25

Data Type CHK

Sample Value 0.098

Sample Time 14:26

Data Type BLK

Sample Value 0.000

Sample Time 14:28

Data Type SUBJ

Sample Value 0.000

Sample Time 14:28

Data Type BLK

Sample Value 0.000

Sample Time 14:29

Data Type SUBJ

Sample Value 0.000

Sample Time 14:31

Data Type BLK

Sample Value 0.000

Sample Time 14:32

Standard Type Dry Gas Std

Standard Value 0.098

Standard Lot Number AG226201-19

Standard Expiration Date 09/18/2014

Tank Pressure 825

Barometric Pressure 741 mmHg

Blow Sample Number 1      Blow Duration 3.56 sec

Blow Volume 2068 cc      End-of-Blow Time 14:28

Blow Sample Number 2      Blow Duration 3.69 sec

Blow Volume 2047 cc      End-of-Blow Time 14:31

Tamper Evident Stamp b54123a7

Test Status Code 0

Test Status Success