



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: 010512
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.

[Handwritten signature of Timmy L. Neece, Jr.]

Timmy L. Neece, Jr.
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

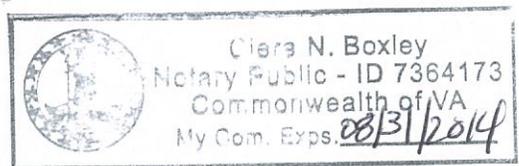
The foregoing was acknowledged before me this 28th day of February, 2014 by Timmy L. Neece, Jr.

[Handwritten signature of Ciera N. Boxley]

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

mmb



DBH
Tlv

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

Instrument Serial Number: 010512

As of 21-Feb-14

Maintenance Date	Certification Date	Technician Initials	Remarks
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.
24-Jul-13	20-Mar-13	MMB (26417)	RESET PRINTER.
20-Mar-13	20-Mar-13	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.
25-Sep-12	25-Sep-12	DBH (21250)	CERTIFIED.
12-Apr-12	12-Apr-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
08-Nov-11	08-Nov-11	HMS (18910)	CERTIFIED
31-May-11	31-May-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)	REPLACED DRY GAS STANDARD, CERTIFIED
11-Aug-09	11-Aug-09	HMS (18910)	CERTIFIED.
26-Mar-09	26-Mar-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
07-Nov-08	07-Nov-08	DBH (21250)	CERTIFIED.
24-Oct-08	24-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
TLW

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010512** Worksheet Start Date **2/21/2014**

Location **Blackstone PD**

Address **101 W Elm St Blackstone VA 23824**

DFS Technician **Donald Hall** License No. **21250**

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **744** Reference Barometer (mm HG) **745**

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

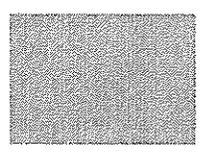
Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.293	0.284	0.301	0.295	0.295	0.295
Precision		sample min	sample max			
0		0.295	0.295			

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.) **AG226201-20**

- 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

010512

Certification Date

2/21/2014

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	0.242
0.250	0.245	0.237	0.252	Sample 2	0.242
Precision		sample min	sample max	Sample 3	0.241
0.001		0.241	0.242		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.147
0.150	0.147	0.142	0.151	Sample 2	0.147
Precision		sample min	sample max	Sample 3	0.146
0.001		0.146	0.147		

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

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

2/21/14

Issuing Analyst

[Signature]

Date

2/24/14

mmb

DBH
TLN

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010512 Test Number: 475
Test Date: 02/21/2014 Test Time: 11:22 EST

Technician Initials: DBH

Dry Gas Target: 0.245

Lot Number: 2961225012-09 Exp Date: 11/01/2014

Tank Pressure: 419 psi Barometric Pressure: 744 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:22
BLK	0.000	11:23
CHK	0.242	11:24
BLK	0.000	11:26
CHK	0.242	11:26
BLK	0.000	11:28
CHK	0.241	11:29
BLK	0.000	11:31

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: 010512 Test Number: 476
Test Date: 02/21/2014 Test Time: 11:33 EST

Technician Initials: DBH

Dry Gas Target: 0.147

Lot Number: 2951215012-03 Exp Date: 11/01/2014

Tank Pressure: 66 psi Barometric Pressure: 744 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:33
BLK	0.000	11:34
CHK	0.147	11:35
BLK	0.000	11:36
CHK	0.147	11:37
BLK	0.000	11:39
CHK	0.146	11:40
BLK	0.000	11:41

Success

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

Certification Status: Continued

DBA
TLN

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010512 Test Number: 477
Test Date: 02/21/2014 Test Time: 11:44 EST

Technician Initials: DBH

Dry Gas Target: 0.078

Lot Number: 0771308012-01 Exp Date: 05/01/2015

Tank Pressure: 492 psi Barometric Pressure: 744 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:44
BLK	0.000	11:45
CHK	0.078	11:46
BLK	0.000	11:47
CHK	0.078	11:48
BLK	0.000	11:49
CHK	0.078	11:50
BLK	0.000	11:51

Success

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

Certification Status: Continued

LBH
TLW

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010512 Test Number: 478
Test Date: 02/21/2014 Test Time: 11:54 EST

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-02 Exp Date: 05/01/2015

Tank Pressure: 497 psi Barometric Pressure: 744 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:54
BLK	0.000	11:55
CHK	0.019	11:56
BLK	0.000	11:57
CHK	0.019	11:58
BLK	0.000	11:59
CHK	0.019	12:00
BLK	0.000	12:01

Success

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

Certification Status: Success

DBH
TLN

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010512 Test Number: 479
Test Date: 02/21/2014 Test Time: 12:05 EST
Dry Gas Target: 0.293

Lot Number: AG322702-06 Exp Date: 08/15/2015
Tank Pressure: 468 psi Barometric Pressure: 743 mmHg
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:05
CHK	0.295	12:06
BLK	0.000	12:08
CHK	0.295	12:09
BLK	0.000	12:11
CHK	0.295	12:12

Test Status: *Success*

Calibration CRC: E03AF112

DBH
trw

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010512 Test Number: 480
Test Date: 02/21/2014 Test Time: 12:15 EST
Dry Gas Target: 0.098

Lot Number: AG226201-20 Exp Date: 09/18/2014
Tank Pressure: 933 psi Barometric Pressure: 743 mmHg
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:15
CHK	0.098	12:16
BLK	0.000	12:18
CHK	0.098	12:19
BLK	0.000	12:20
CHK	0.098	12:21

Test Status: *Success*

Calibration CRC: E03AF112

DBH
TLN



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 02/21/2014
TEST EQUIPMENT NUMBER 010512		

RESULTS: TIME SAMPLE TAKEN 12:30 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

FOR COURT

