



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: 010604
CERTIFICATION DATE: January 30, 2014
DATE RECERTIFICATION DUE: July 29, 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.

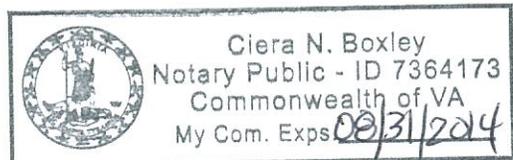
[Signature]
Sarah E. Dersch
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 10th day of February, 2014 by Sarah E. Dersch

[Signature]
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



msk

sed

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/4/2014**

Instrument Serial Number: 010604 **As of 04-Feb-14**

Maintenance Date	Certification Date	Technician Initials	Remarks
30-Jan-14	30-Jan-14	SED (24178)	CERTIFIED. REPLACED DRY GAS STANDARD.
13-Aug-13	13-Aug-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
28-Feb-13	28-Feb-13	MMB (26417)	CERTIFIED. REPLACED DRY GAS STANDARD.
18-Dec-12	18-Dec-12	DBH (21250)	CERTIFIED.
19-Oct-12	19-Oct-12	TLN (25387)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
15-Nov-11	15-Nov-11	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD, REPLACED PRINTER RIBBON.
14-Oct-11	29-Jun-11	HMS (18910)	REPLACED DRY GAS STANDARD.
29-Jun-11	29-Jun-11	RJP (22428)	CERTIFIED.
10-May-11	10-May-11	HMS (18910)	REPLACED TANK TOP LID, CERTIFIED
02-Nov-10	02-Nov-10	HMS (18910)	CERTIFIED
25-May-10	25-May-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
05-May-10	10-Dec-09	HMS (18910)	REPLACED DRY GAS STANDARD.
10-Dec-09	10-Dec-09	RJP (22428)	CERTIFIED
23-Jun-09	23-Jun-09	HMS (18910)	CERTIFIED.
16-Apr-09	16-Apr-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

Ed

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number: 010604 Worksheet Start Date: 1/30/2014

Location: Rappahannock Co SO

Address: 383 Porter St, Washington, VA 22747

DFS Technician: Sarah Dersch License No.: 24178

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG): 747 Reference Barometer (mm HG): 750

Reference Barometer(RB)Serial #: 009111 RB Calibration Due: 5/23/2014

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.294
0.300	0.295	0.286	0.303	Sample 2	0.294
Precision		sample min	sample max	Sample 3	0.293
0.001		0.293	0.294		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.097
0.100	0.098	0.095	0.101	Sample 2	0.097
Precision		sample min	sample max	Sample 3	0.097
0		0.097	0.097		

Dry gas standard Lot No. (with tank no.) AG316301-23

Replaced dry gas standard (+O-ring)

Installed at Location

Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

[Large area of noise/redaction]

Instrument Serial Number

010604

Certification Date

1/30/2014

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	0.244
0.250	0.246	0.238	0.253	Sample 2	0.244
Precision		sample min	sample max	Sample 3	0.243
0.001		0.243	0.244		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.146
0.150	0.147	0.142	0.151	Sample 2	0.146
Precision		sample min	sample max	Sample 3	0.146
0		0.146	0.146		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.078
0.080	0.079	0.076	0.082	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

Date

2/4/14

Issuing Analyst

Date

2/4/14

msk

Intox EC/1R-11: Certification

SED

Department of Forensic Science

Serial Number: 010604 Test Number: 978

Test Date: 01/30/2014 Test Time: 14:15 EST

Technician Initials: *SED*

Dry Gas Target: 0.246

Lot Number: 0651225015-02 Exp Date: 04/01/2014

Tank Pressure: 345 psi Barometric Pressure: 747 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	14:15
BLK	0.000	14:16
CHK	0.244	14:17
BLK	0.000	14:19
CHK	0.244	14:20
BLK	0.000	14:22
CHK	0.243	14:23
BLK	0.000	14:24

Success

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

Certification Status: Continued

fed

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010604 Test Number: 979
Test Date: 01/30/2014 Test Time: 14:26 EST

Technician Initials: *SED*

Dry Gas Target: 0.147

Lot Number: 0651215014-04 Exp Date: 04/01/2014

Tank Pressure: 772 psi Barometric Pressure: 747 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	14:26
BLK	0.000	14:27
CHK	0.146	14:28
BLK	0.000	14:29
CHK	0.146	14:30
BLK	0.000	14:32
CHK	0.146	14:33
BLK	0.000	14:34

Success

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

Certification Status: Continued

sid

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010604 Test Number: 980
Test Date: 01/30/2014 Test Time: 14:36 EST

Technician Initials: *SED*

Dry Gas Target: *0.079*

Lot Number: *0651208012-01* Exp Date: *04/01/2014*

Tank Pressure: *919 psi* Barometric Pressure: *747 mmHg*

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	14:37
BLK	0.000	14:38
CHK	0.078	14:38
BLK	0.000	14:40
CHK	0.078	14:41
BLK	0.000	14:42
CHK	0.078	14:43
BLK	0.000	14:44

Success

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

Certification Status: Continued

Intox EC/IR-II: Certification

fid

Department of Forensic Science

Serial Number: *010604* Test Number: *981*
Test Date: *01/30/2014* Test Time: *14:46 EST*

Technician Initials: *SED*

Dry Gas Target: *0.020*

Lot Number: *0651202011-07* Exp Date: *04/01/2014*

Tank Pressure: *56 psi* Barometric Pressure: *747 mmHg*
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	14:46
BLK	0.000	14:47
CHK	0.019	14:48
BLK	0.000	14:49
CHK	0.019	14:50
BLK	0.000	14:51
CHK	0.019	14:52
BLK	0.000	14:53

Success

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

Certification Status: **Success**

sd

Intox EC/IR-11: Accuracy Check

Department of Forensic Science

Serial Number: 010604 Test Number: 982

Test Date: 01/30/2014 Test Time: 14:56 EST

Dry Gas Target: 0.295

Lot Number: AG321804-04 Exp Date: 08/06/2015

Tank Pressure: 375 psi Barometric Pressure: 747 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:57
CHK	0.294	14:58
BLK	0.000	15:00
CHK	0.294	15:01
BLK	0.000	15:03
CHK	0.293	15:04

Test Status: Success

Calibration CRC: 585FD838

PLD

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010604 Test Number: 983

Test Date: 01/30/2014 Test Time: 15:13 EST

Dry Gas Target: 0.098

Lot Number: AG316301-23 Exp Date: 06/12/2015

Tank Pressure: 247 psi Barometric Pressure: 747 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:14
CHK	0.097	15:15
BLK	0.000	15:16
CHK	0.097	15:17
BLK	0.000	15:19
CHK	0.097	15:20

Test Status: *Success*

Calibration CRC: 585FD838

Sid



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 DERSCH, SARAH, E		AGENCY DFS Central Lab
DFS LICENSE NUMBER 24178	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 01/30/2014
TEST EQUIPMENT NUMBER 010604		

RESULTS: TIME SAMPLE TAKEN 15:27 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