



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY
A Nationally Accredited Laboratory

737 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010660
DATE CERTIFICATION METHOD PERFORMED: July 9, 2015
DATE RECERTIFICATION DUE: January 5, 2016

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 ± 0.008 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.008 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.

Jennie Duffy (handwritten signature)

Jennie P. Duffy

Breath Alcohol Supervisor

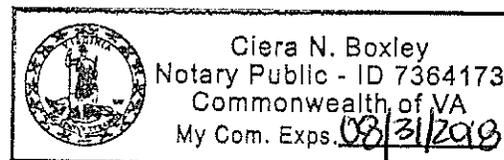
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 14th day of July, 2015 by Jennie P. Duffy

Ciera N. Boxley (handwritten signature)
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018

mmB (handwritten initials)



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
7/9/2014 To 7/13/2015

DBH
JPD

Instrument Serial Number: 010660 As of 13-Jul-15

Maintenance Date	Certification Date	Technician Initials	Remarks
09-Jul-15	09-Jul-15	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
11-Feb-15	11-Feb-15	SED (24178)	CERTIFIED. REPLACED DRY GAS STANDARD.
03-Sep-14	03-Sep-14	HMS (18910)	CERTIFIED, REPLACED UPS BACK-UP BATTERY.

JPD

Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
7/9/2014 To 7/10/2015

Instrument Serial Number: 010660

As of 10-Jul-15

Maintenance Date	Certification Date	Technician Initials	Remarks
09-Jul-15	11-Feb-15 09-Jul-15	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
11-Feb-15	11-Feb-15	SED (24178)	CERTIFIED. REPLACED DRY GAS STANDARD.
03-Sep-14	03-Sep-14	HMS (18910)	CERTIFIED, REPLACED UPS BACK-UP BATTERY.

Corrected certification date
in BrAD.
MSK 7/13/2015

DBH
JPD

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010660** Worksheet Start Date **7/9/2015**
 Location **Oceana NAS**
 Address **1750 Tomcat Blvd Building 320, Virginia Beach VA 23460**
 DFS Technician **Donald Hall** License No. **21250**

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) **759** Reference Barometer (mm HG) **761**
 Reference Barometer(RB)Serial # **009109** RB Calibration Due **7/28/2015**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.300	0.291	0.309	0.300	0.300	0.300
Precision		sample min	sample max			
0		0.300	0.300			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.100	0.097	0.103	0.099	0.099	0.099
Precision		sample min	sample max			
0		0.099	0.099			

Dry gas standard Lot No. (with tank no.) **AG407801-09**

- Replaced dry gas standard (+O-ring)
- Installed at Location
- Removed to DFS-Central

Supplies
 Mouthpieces
 Certificates of Analysis **100**
 Operator Worksheet **50**
 Other:

Notes:

[Redacted Notes Area]

Instrument Serial Number 010660

Certification Date 7/9/2015

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	0.250
0.250	0.250	0.242	0.257	Sample 2	0.250
Precision		sample min	sample max	Sample 3	0.249
0.001		0.249	0.250		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.150
0.150	0.150	0.145	0.154	Sample 2	0.150
Precision		sample min	sample max	Sample 3	0.150
0		0.150	0.150		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

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

7/9/15

Issuing Analyst

Jennie Duffy

Date

7/13/15

DBH
JPD



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

SAMPLE EXAMINED AND TEST CONDUCTED BY <u>HALL, DONALD, B</u>		AGENCY <u>DFS Central Lab</u>
DFS LICENSE NUMBER <u>21250</u>	LICENSE EXPIRES <u>10/01/2016</u>	DATE TEST CONDUCTED <u>07/09/2015</u>
TEST EQUIPMENT NUMBER <u>010660</u>		

RESULTS: TIME SAMPLE TAKEN 12:38 EDT

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 09 Jul 2015 at 14:10

DBH
JPD

Test Results

Instrument Serial Number 010660

Test # 000612 Subject Test

Test Location 1 Department of
Test Date 09 Jul 2015

Test Location 2 Forensic Science
Test Time 12:32
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 10/01/2014

Expiration Date 10/01/2016

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 09 Jul 2015 End Time 12:40

Result Time 12:38

Result Date 09 Jul 2015

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:33

Data Type BLK

Sample Value 0.000

Sample Time 12:33

Data Type CHK

Sample Value 0.102

Sample Time 12:34

Data Type BLK

Sample Value 0.000

Sample Time 12:35

Data Type SUBJ

Sample Value 0.000

Sample Time 12:36

Data Type BLK

Sample Value 0.000

Sample Time 12:37

Data Type SUBJ

Sample Value 0.000

Sample Time 12:38

Data Type BLK

Sample Value 0.000

Sample Time 12:39

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG501301-14

Standard Expiration Date 01/13/2017

Tank Pressure 1120

Barometric Pressure 759 mmHg

Blow Sample Number 1 Blow Duration 3.91 sec

Blow Volume 1984 cc End-of-Blow Time 12:36

Blow Sample Number 2 Blow Duration 3.96 sec

Blow Volume 2060 cc End-of-Blow Time 12:38

Tamper Evident Stamp 012c31da

Test Status Code 0

Test Status Success

DBH
JPD

Intox EC/IR-11: Accuracy Check

Department of Forensic Science

Serial Number: 010660 Test Number: 613
Test Date: 07/09/2015 Test Time: 12:41 EDT
Dry Gas Target: 0.100
Lot Number: AG501301-14 Exp Date: 01/13/2017
Tank Pressure: 1120 psi Barometric Pressure: 759 mmHg
System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:42
CHK	0.102	12:42
BLK	0.000	12:44
CHK	0.102	12:45
BLK	0.000	12:46
CHK	0.102	12:47

Test Status: *Success*

Calibration CRC: 60615533

Intox EC/IR-11: Accuracy Check

DBH
JPD

Department of Forensic Science

Serial Number: 010660 Test Number: 614

Test Date: 07/09/2015 Test Time: 12:50 EDT

Dry Gas Target: 0.300

Lot Number: AG506501-07 Exp Date: 03/06/2017

Tank Pressure: 453 psi Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	12:51
CHK	0.304	12:52
BLK	0.000	12:54
CHK	0.304	12:55
BLK	0.000	12:56
CHK	0.303	12:57

Test Status: Success

Calibration CRC: 60615533

DBH
JPD

Intox EC/IR-11: Certification

Department of Forensic Science

Serial Number: 010660 Test Number: 615

Test Date: 07/09/2015 Test Time: 13:00 EDT

Technician Initials: DBH

Dry Gas Target: 0.250

Lot Number: 1611425014-01 Exp Date: 07/05/2016

Tank Pressure: 292 PSI Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:00
BLK	0.000	13:01
CHK	0.250	13:02
BLK	0.000	13:03
CHK	0.250	13:04
BLK	0.000	13:06
CHK	0.249	13:07
BLK	0.000	13:08

Success

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

Certification Status: Continued

DBH
JPD

Intox EC/IR-11: Certification

Department of Forensic Science
Serial Number: 010660 Test Number: 616
Test Date: 07/09/2015 Test Time: 13:10 EDT

Technician Initials: DBH
Dry Gas Target: 0.150
Lot Number: 1611415013-04 Exp Date: 07/05/2016
Tank Pressure: 649 psi Barometric Pressure: 759 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:11
BLK	0.000	13:12
CHK	0.150	13:12
BLK	0.000	13:14
CHK	0.150	13:15
BLK	0.000	13:16
CHK	0.150	13:17
BLK	0.000	13:18

Success

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

Certification Status: Continued

DBH
JPD

INTOX EC/IK-11: Certification

Department of Forensic Science
Serial Number: 010660 Test Number: 617
Test Date: 07/09/2015 Test Time: 13:21 EDT

Technician Initials: DBH
Dry Gas Target: 0.080
Lot Number: 1611408012-03 Exp Date: 07/05/2016
Tank Pressure: 585 psi Barometric Pressure: 759 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:21
BLK	0.000	13:22
CHK	0.080	13:23
BLK	0.000	13:24
CHK	0.080	13:25
BLK	0.000	13:26
CHK	0.080	13:27
BLK	0.000	13:28

Success

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

Certification Status: Continued

DBH
JD

INTOX EC/IR-11: Certification

Department of Forensic Science
Serial Number: 010660 Test Number: 618
Test Date: 07/09/2015 Test Time: 13:30 EDT

Technician Initials: DBH
Dry Gas Target: 0.020
Lot Number: 1611402011-02 Exp Date: 07/05/2016
Tank Pressure: 781 psi Barometric Pressure: 759 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:31
BLK	0.000	13:32
CHK	0.019	13:33
BLK	0.000	13:34
CHK	0.019	13:35
BLK	0.000	13:36
CHK	0.019	13:37
BLK	0.000	13:38

Success

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

Certification Status: Success

DBH
JPD

Intox EC/1R-11: Accuracy Check

Department of Forensic Science

Serial Number: 010660 Test Number: 619

Test Date: 07/09/2015 Test Time: 13:41 EDT

Dry Gas Target: 0.300

Lot Number: AG506501-07 Exp Date: 03/06/2017

Tank Pressure: 438 psi Barometric Pressure: 759 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:41
CHK	0.300	13:42
BLK	0.000	13:44
CHK	0.300	13:45
BLK	0.000	13:47
CHK	0.300	13:48

Test Status: *Success*

Calibration CRC: 60615533

DBH
JPO

INTOX EC/IR-11: Accuracy Check

Department of Forensic Science
Serial Number: 010660 Test Number: 620
Test Date: 07/09/2015 Test Time: 13:50 EDT
Dry Gas Target: 0.100
Lot Number: AG407801-09 Exp Date: 03/19/2016
Tank Pressure: 345 psi Barometric Pressure: 758 mmHg
System Check: Passed

Test	g/210L	Time
BLK	0.000	13:51
CHK	0.099	13:52
BLK	0.000	13:53
CHK	0.099	13:54
BLK	0.000	13:56
CHK	0.099	13:56

Test Status: Success

Calibration CRC: 60619933

DBH
JPD



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
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2016	DATE TEST CONDUCTED 07/09/2015
TEST EQUIPMENT NUMBER 010660		

RESULTS: TIME SAMPLE TAKEN 14:05 EDT
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 09 Jul 2015 at 14:10

DBH
JPP

Test Results

Instrument Serial Number 010660

Test # 000621 Subject Test

Test Location 1 Department of
Test Date 09 Jul 2015

Test Location 2 Forensic Science
Test Time 13:59
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 10/01/2014

Expiration Date 10/01/2016

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 09 Jul 2015 End Time 14:07

Result Time 14:05

Result Date 09 Jul 2015 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:59

Data Type BLK

Sample Value 0.000

Sample Time 14:00

Data Type CHK

Sample Value 0.099

Sample Time 14:01

Data Type BLK

Sample Value 0.000

Sample Time 14:02

Data Type SUBJ

Sample Value 0.000

Sample Time 14:03

Data Type BLK

Sample Value 0.000

Sample Time 14:04

Data Type SUBJ

Sample Value 0.000

Sample Time 14:05

Data Type BLK

Sample Value 0.000

Sample Time 14:06

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG407801-09

Standard Expiration Date 03/19/2016

Tank Pressure 340

Barometric Pressure 758 mmHg

Blow Sample Number 1 Blow Duration 3.76 sec

Blow Volume 1914 cc End-of-Blow Time 14:03

Blow Sample Number 2 Blow Duration 4.69 sec

Blow Volume 2349 cc End-of-Blow Time 14:05

Tamper Evident Stamp c0a9a0c6

Test Status Code 0

Test Status Success