



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: 010657
CERTIFICATION DATE: June 24, 2014
DATE RECERTIFICATION DUE: December 21, 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.

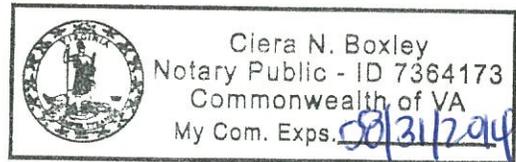
Melissa S. Kennedy
Melissa S. Kennedy
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 25th day of June, 2014 by Melissa S. Kennedy

Ciera N. Boxley
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 6/24/2014**

HMS
psk

Instrument Serial Number: 010657

As of 24-Jun-14

Maintenance Date	Certification Date	Technician Initials	Remarks
24-Jun-14	24-Jun-14	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
15-Jan-14	15-Jan-14	HMS (18910)	REPLACED PRINTER RIBBON, CERTIFIED, REPLACED DRY GAS STANDARD.
01-Aug-13	01-Aug-13	SED (24178)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
02-May-13	12-Feb-13	HMS (18910)	INSTALLED UPS BACK-UP BATTERY.
01-May-13	12-Feb-13	HMS (18910)	REMOVED UPS BACK-UP BATTERY.
12-Feb-13	12-Feb-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
27-Aug-12	27-Aug-12	HMS (18910)	CERTIFIED
15-Mar-12	15-Mar-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
28-Sep-11	28-Sep-11	HMS (18910)	CERTIFIED
07-Apr-11	07-Apr-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
21-Oct-10	21-Oct-10	HMS (18910)	CERTIFIED
05-May-10	05-May-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
10-Nov-09	10-Nov-09	HMS (18910)	CERTIFIED
09-Jun-09	09-Jun-09	HMS (18910)	CERTIFIED.
14-Apr-09	14-Apr-09	HMS (18910)	CERTIFIED.
20-Mar-09	20-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
09-Feb-09	09-Feb-09	HMS (18910)	CALIBRATED, CERTIFIED AND ACCEPTED.

INTOX EC/IR II Quality Assurance Worksheet

Handwritten initials/signature

Instrument Serial Number: 010657 Worksheet Start Date: 6/24/2014

Location: Quantico Marine Corps Base

Address: 2043 Barnett Ave., Quantico, VA 22134

DFS Technician: Heather Stanton License No.: 18910

Laboratory On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG): 762 Reference Barometer (mm HG): 764

Reference Barometer(RB)Serial #: 009113 RB Calibration Due: 4/28/2015

Measurement Assurance Check

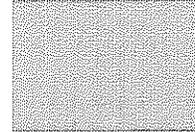
Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.304
0.300	0.301	0.291	0.310	Sample 2	0.303
Precision		sample min	sample max	Sample 3	0.303
0.001		0.303	0.304		

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

Dry gas standard Lot No. (with tank no.): AG406301-30

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

- Supplies
- Mouthpieces
- Certificates of Analysis
- Operator Worksheet
- Other:



Notes:

[Large shaded area for handwritten notes]

Instrument Serial Number

010657

Certification Date

6/24/2014

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	0.251
0.250	0.251	0.243	0.258	Sample 2	0.250
Precision		sample min	sample max	Sample 3	0.250
0.001		0.250	0.251		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.151
0.150	0.150	0.145	0.154	Sample 2	0.151
Precision		sample min	sample max	Sample 3	0.151
0		0.151	0.151		

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

Heather W. Stark

Date

6/24/14

Issuing Analyst

Melina Kennedy
sub

Date

6/25/14

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010657 Test Number: 477
Test Date: 06/24/2014 Test Time: 12:31 EDT

Technician Initials: HMS

Dry Gas Target: 0.251

Lot Number: 07713250I4-04 Exp Date: 05/01/2015

Tank Pressure: 669 psi Barometric Pressure: 762 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	12:32
BLK	0.000	12:32
CHK	0.251	12:33
BLK	0.000	12:35
CHK	0.250	12:35
BLK	0.000	12:37
CHK	0.250	12:38
BLK	0.000	12:39

Success

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

Certification Status: Continued

HMS
MSL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010657 Test Number: 478
Test Date: 06/24/2014 Test Time: 12:41 EDT

Technician Initials: HMS

Dry Gas Target: 0.150

Lot Number: 07713150I3-01 Exp Date: 05/01/2015

Tank Pressure: 355 psi Barometric Pressure: 762 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	12:42
BLK	0.000	12:43
CHK	0.151	12:44
BLK	0.000	12:45
CHK	0.151	12:46
BLK	0.000	12:47
CHK	0.151	12:48
BLK	0.000	12:49

Success

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

Certification Status: Continued

HMS

MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010657 Test Number: 479
Test Date: 06/24/2014 Test Time: 12:51 EDT

Technician Initials: HMS

Dry Gas Target: 0.080

Lot Number: 0771308012-02 Exp Date: 05/01/2015

Tank Pressure: 634 psi Barometric Pressure: 762 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	12:51
BLK	0.000	12:52
CHK	0.080	12:53
BLK	0.000	12:54
CHK	0.080	12:55
BLK	0.000	12:57
CHK	0.080	12:57
BLK	0.000	12:59

Success

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

Certification Status: Continued

HMS
RSL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010657 Test Number: 480
Test Date: 06/24/2014 Test Time: 13:00 EDT

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 3441302011-02 Exp Date: 01/01/2016

Tank Pressure: 909 psi Barometric Pressure: 762 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	13:01
BLK	0.000	13:02
CHK	0.019	13:02
BLK	0.000	13:04
CHK	0.019	13:05
BLK	0.000	13:06
CHK	0.019	13:07
BLK	0.000	13:08

Success

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

Certification Status: Success

AMS
ASK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010657 Test Number: 481

Test Date: 06/24/2014 Test Time: 13:10 EDT

Dry Gas Target: 0.301

Lot Number: AG334603-02 Exp Date: 12/12/2015

Tank Pressure: 257 psi Barometric Pressure: 762 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:11
CHK	0.304	13:12
BLK	0.000	13:14
CHK	0.303	13:15
BLK	0.000	13:16
CHK	0.303	13:17

Test Status: *Success*

Calibration CRC: F19807D8

AMS
MSK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010657 Test Number: 482

Test Date: 06/24/2014 Test Time: 13:19 EDT

Dry Gas Target: 0.100

Lot Number: AG406301-30 Exp Date: 03/04/2016

Tank Pressure: 1120 psi Barometric Pressure: 762 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:20
CHK	0.100	13:21
BLK	0.000	13:23
CHK	0.100	13:24
BLK	0.000	13:25
CHK	0.100	13:26

Test Status: *Success*

Calibration CRC: F19807D8



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

HMS
NWK

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 STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 06/24/2014
TEST EQUIPMENT NUMBER 010657		

RESULTS: TIME SAMPLE TAKEN 13:33 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

