

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 6/11/2014  
Effective: 6/11/2014

Version: DMEF2014 R0  
Status: Active

Instrument # 100416

Date: 7/9/15

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Certified instrument used at DRF In-Service training. Instrument gave numerous status messages: failed diagnostic, interference detected, blank error, etc.

2. Troubleshooting/Repair

In the lab I was able to recreate the status messages intermittently. I compared the as found bias, lamp, cooler and detector voltages and found them to be steady. Due to the issue persisting in a different environment + the detector + controller board not exhibiting issues, I chose to replace the sample chamber.

Following the sample chamber replacement I tested it for functionality and found the 5-way valve to be sticking. I replaced the 5-way valve and proved it to be functional. In reviewing all the evaluation paperwork I found the internal standard value to be variable overall as well as within a short time period. (2.65% - 0.51%) I am putting this instrument forward for calibration.

3. VOC (attached)

4. Verify software version  3.01

Return to Factory for Repair

Ready For Calibration

Ready For Certification

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100416

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/03/2015

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.77: 0.080  
LOT #: 09214080A2  
EXPIRATION: 05/01/2016  
TANK PRESSURE: 881 psi

BLANK TEST 0.000 12:53  
INTERNAL STANDARD VERIFIED 12:53  
Xq = 0.084 (1.43%)  
EXTERNAL STANDARD 0.082 12:53  
X[1] = 0.0820 (-0.0021) (0.0045)  
BLANK TEST 0.000 12:54  
EXTERNAL STANDARD 0.082 12:54  
X[1] = 0.0820 (-0.0005) (0.0001)  
BLANK TEST 0.000 12:56  
EXTERNAL STANDARD INTERFERENCE 12:56  
X[1] = 0.0851 (-0.0067) (-0.0045)

Blank Error

## Diagnostic Check

### VERSIONS

DMT: 3.00  
PIC: 3.02  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.9°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 45.1°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.66 V PASSED  
(1.01 V - 2.35 V)  
Cooler Voltage = 1.66 V PASSED  
(1.00 V - 2.32 V)  
Bias Voltage = 82 V PASSED  
(49 V - 115 V)  
Chopper Freq = 530 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.369 L/M PASSED  
(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON PASSED  
(0.002 V <= 0.010 V)  
PUMP OFF PASSED  
(0.002 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

Xq = 0.085 1.12% (0.00% - 4.00%) PASSED

*Training@SCDL* *03/01/15*

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

- (1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- (2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- (3) I am the Scientific Director of the State Breath Alcohol Program.
- (4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- (5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Bolz  
Scientific Director  
State Breath Alcohol Program

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100416

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/03/2015

## External Standard Test Values

## Diagnostic Check

VERSIONS  
DMT: 3.00  
PIC: 3.02  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.7°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 45.9°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.66 V PASSED  
(1.01 V - 2.35 V)  
Cooler Voltage = 1.64 V PASSED  
(1.00 V - 2.32 V)  
Bias Voltage = 82 V PASSED  
(49 V - 115 V)  
Chopper Freq = 529 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.379 L/M PASSED  
(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON FAILED  
(0.012 V <= 0.010 V)  
PUMP OFF FAILED  
(0.018 V <= 0.010 V)

### FILTER INFO

Filter 1 FAILED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

Xq = 0.054 37.11% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

*Training @ SCDL*

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Nita J. Bolz  
Scientific Director  
State Breath Alcohol Program

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

Technician Screen

-----  
DATAMASTER dmt: 100416  
-----

Date: 03/13/2015  
Time: 10:05 AM

Temperatures (°C)

Sample Cell: 48.7°C  
Breath Tube: 47.0°C

Current Barometer 29.3 in  
Volume (Ltr) 0.00

Settings

Lamp: 1.66 V  
Bias: 82 V  
Cooler: 1.64 V  
Chopper: 533 Hz

Voltages (V)

Flow: 1.07 V  
Detector: 0.166 V

*As-found detector voltage.  
03/13/15*

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100416

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/11/2015

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.00: 0.078  
LOT #: 09214080A2  
EXPIRATION: 05/01/2016  
TANK PRESSURE: 789 psi

BLANK TEST	0.000	12:02
INTERNAL STANDARD	VERIFIED	12:02
Xg = 0.084 (1.32%)		
EXTERNAL STANDARD	0.079	12:02
X[1] = 0.0789 (0.0005) (0.0019)		
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.079	12:03
X[1] = 0.0790 (0.0002) (0.0018)		
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.079	12:04
X[1] = 0.0790 (0.0003) (0.0014)		
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.079	12:05
X[1] = 0.0787 (-0.0001) (0.0013)		
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.079	12:06
X[1] = 0.0792 (0.0004) (0.0016)		
BLANK TEST	0.000	12:07

Average = 0.0790  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

DMT: 3.00  
PIC: 3.02  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.8°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 45.4°C (38.0°C - 50.0°C)	PASSED

### SETTINGS

Lamp Voltage = 1.66 V (1.01 V - 2.35 V)	PASSED
Cooler Voltage = 1.64 V (1.00 V - 2.32 V)	PASSED
Bias Voltage = 82 V (49 V - 115 V)	PASSED
Chopper Freq = 537 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.0 in	

### PUMP INFO

Flow Rate = 4.284 L/M (3.500 L/M - 6.500 L/M)	PASSED
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### DETECTOR INFO

PUMP ON (0.001 V <= 0.010 V)	PASSED
PUMP OFF (0.001 V <= 0.010 V)	PASSED

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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Xg = 0.085 1.02% (0.00% - 4.00%)

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

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Nita J. Bolz  
Scientific Director  
State Breath Alcohol Program

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

4/11/15 VOC while  
instrument was out  
of service.

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100416

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/30/2015

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.84: 0.080  
LOT #: 09214080A2  
EXPIRATION: 05/01/2016  
TANK PRESSURE: 734 psi

BLANK TEST	0.000	12:02
INTERNAL STANDARD	VERIFIED	12:02
Xq = 0.084 (1.22%)		
EXTERNAL STANDARD	0.080	12:02
X[1] = 0.0803 (0.0000) (0.0024)		
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.082	12:03
X[1] = 0.0816 (0.0011) (0.0020)		
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.081	12:04
X[1] = 0.0813 (0.0010) (0.0020)		
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.082	12:05
X[1] = 0.0821 (-0.0016) (-0.0014)		

Blank Error

## Diagnostic Check

### VERSIONS

DMT: 3.00  
PIC: 3.02  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.7°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.66 V	PASSED
(1.01 V - 2.35 V)	
Cooler Voltage = 1.64 V	PASSED
(1.00 V - 2.32 V)	
Bias Voltage = 82 V	PASSED
(49 V - 115 V)	
Chopper Freq = 538 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 4.499 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.003 V <= 0.010 V)	
PUMP OFF	PASSED
(0.004 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
Xq = 0.084 1.73% (0.00% - 4.00%)	

I, Nita J. Boiz, after being first duly sworn, depose and state as follows:

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- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Boiz  
Scientific Director  
State Breath Alcohol Program

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

5/30/15 VOC while  
instrument was out  
of service.

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100416  
-----

Date: 07/01/2015  
Time: 08:00:23

VERSIONS  
DMT: 3.01  
PIC: 3.02  
Modem: 2.6  
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 47.4°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.60 V PASSED  
(1.01 V - 2.35 V)  
Cooler Voltage = 1.64 V PASSED  
(1.00 V - 2.32 V)  
Bias Voltage = 82 V PASSED  
(49 V - 115 V)  
Chopper Freq = 535 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 30.0 in

PUMP INFO

Flow Rate = 5.148 L/M PASSED  
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED  
(0.002 v <= 0.010 v)  
PUMP OFF PASSED  
(0.001 v <= 0.010 v)

FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.087 1.83% (0.00% - 4.00%) PASSED

*Diagnostic performed  
after sample chamber  
replacement. CAB 7/1/15*

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100416

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/01/2015

## External Standard Test Values

## Diagnostic Check

### VERSIONS

DMT: 3.01  
PIC: 3.02  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.8°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 47.2°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.66 V PASSED  
(1.01 V - 2.35 V)  
Cooler Voltage = 1.64 V PASSED  
(1.00 V - 2.32 V)  
Bias Voltage = 82 V PASSED  
(49 V - 115 V)  
Chopper Freq = 536 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 30.0 in

### PUMP INFO

Flow Rate = 4.467 L/M PASSED  
(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON PASSED  
(0.004 V <= 0.010 V)  
PUMP OFF FAILED  
(0.011 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

Xq = 0.089 3.77% (0.00% - 4.00%) PASSED

Diagnostic Check Failed

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

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- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Bolz  
Scientific Director  
State Breath Alcohol Program

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

*Attempted VOC following  
Sample chamber  
replacement. Pump off  
Failed.*



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100416

Date: 07/01/2015  
Time: 08:20:45

SUBJECT NAME:  
TEST TEST  
LICENSE #: NON-DRINKING

OPERATOR NAME:  
COLLEEN S O'BRYAN  
OPERATOR'S #: 6237

DEPT/AGENCY:  
AAA1

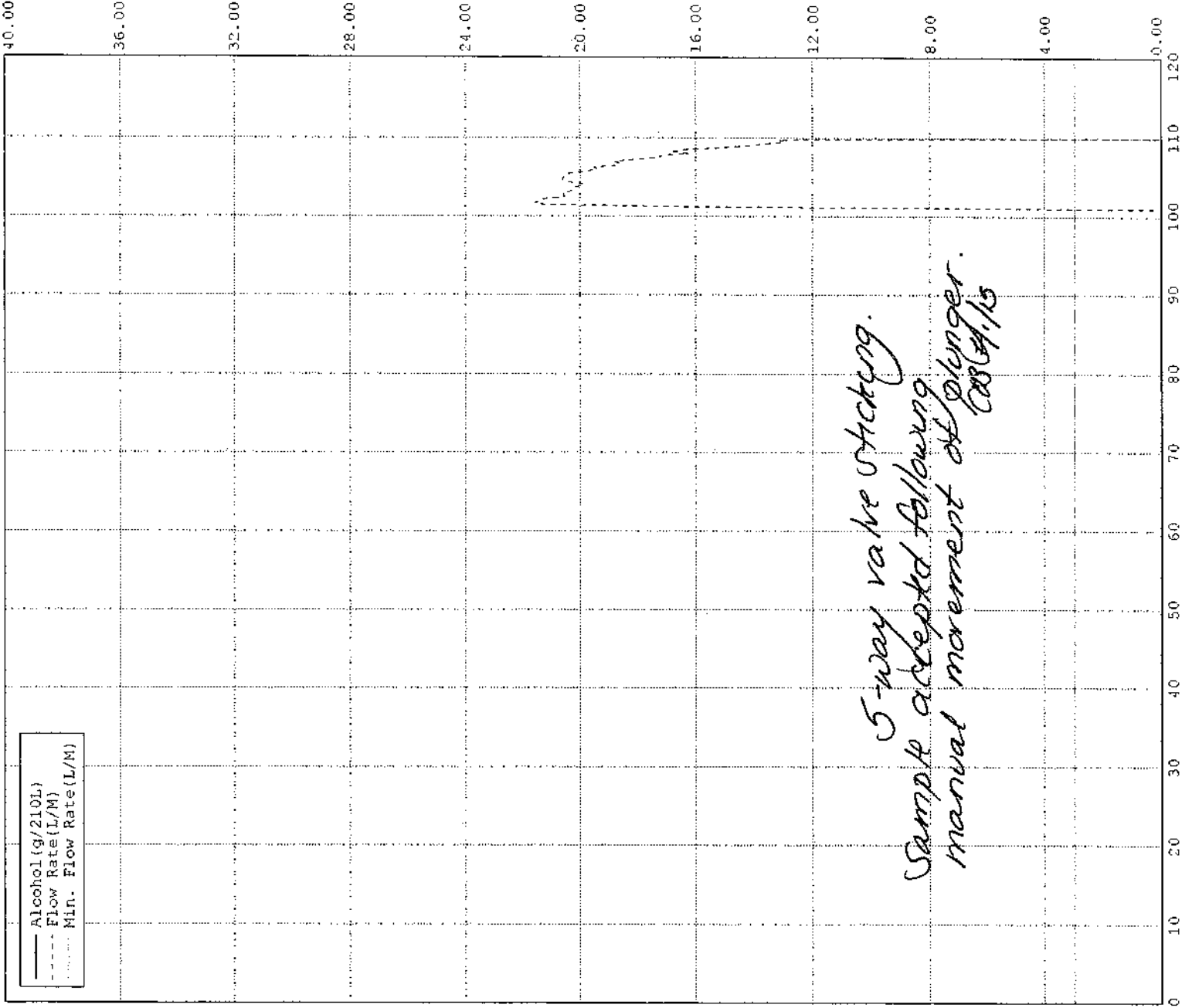
CASE/REPORT: 15-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.96: 0.080  
LOT #: 09214080A2  
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	08:21
INTERNAL STANDARD	0.000	08:21
EXTERNAL STANDARD	0.082	08:22
BLANK TEST	0.000	08:23
SUBJECT SAMPLE (Vol=2.72L)	XXX	08:25

Blank Error



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100416

Date: 07/01/2015  
 Time: 14:34:59

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: NON-DRINKING

OPERATOR NAME:  
 COLLEEN S O'BRYAN  
 OPERATOR'S #: 6237

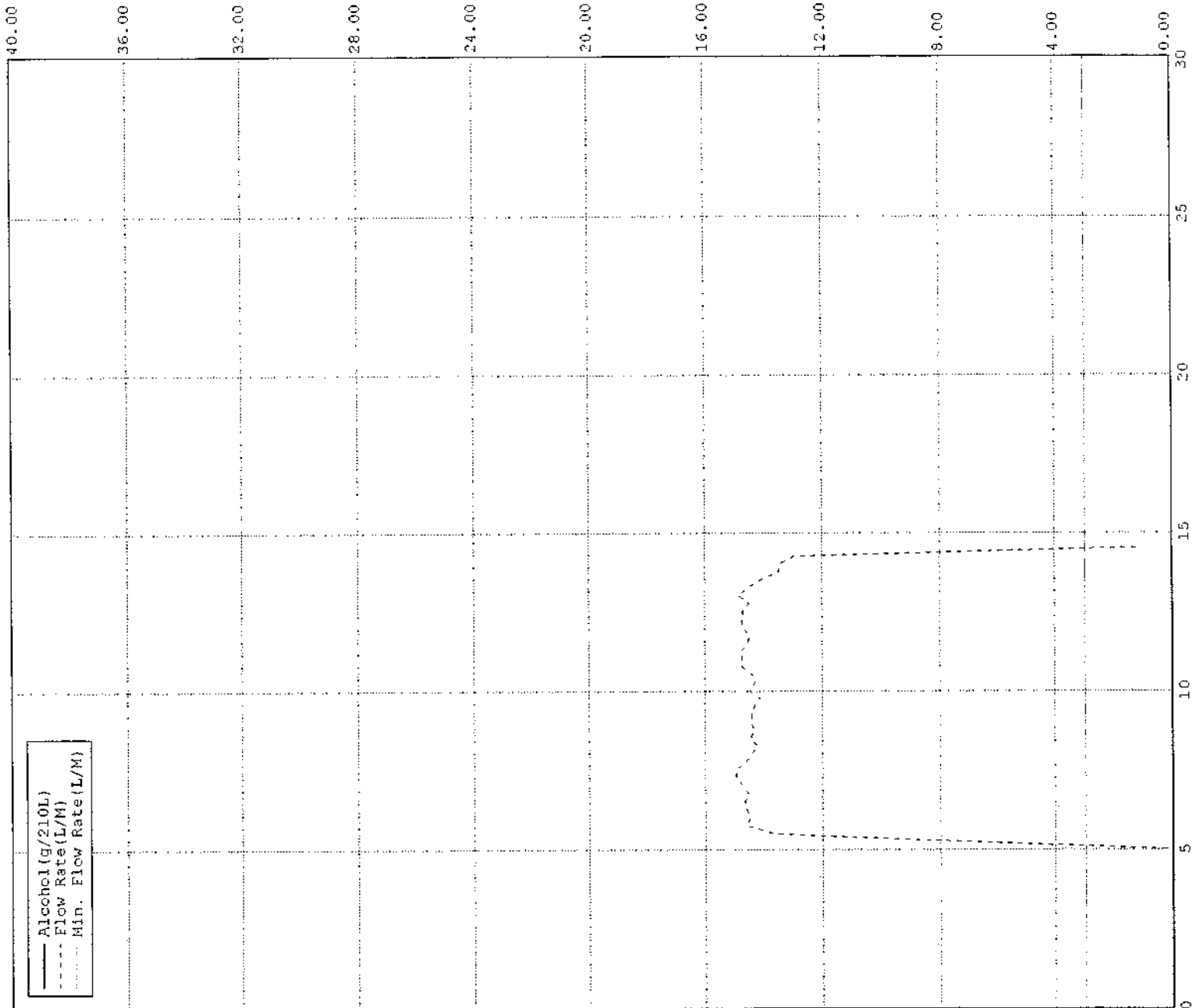
DEPT/AGENCY:  
 AAA1  
 CASE/REPORT: 15-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.90: 0.080  
 LOT #: 09214080A2  
 EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	14:35
BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
EXTERNAL STANDARD	0.079	14:36
INTERNAL STANDARD	$X_q = 0.086$ (0.518)	
EXTERNAL STANDARD	$X[1] = 0.0792$ (-0.0003)	(0.0018)
BLANK TEST	0.000	14:37
SUBJECT SAMPLE (Vol=2.20L)	0.000	14:37
EXTERNAL STANDARD	$X[1] = 0.0000$ (-0.0010)	(0.0000)
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.080	14:38
INTERNAL STANDARD	$X[1] = 0.0802$ (0.0005)	(0.0021)
BLANK TEST	0.000	14:39

*Non-drinking subject test  
 following 5-way valve  
 replacement 08/1/15*

*CS*



SUPERVISOR TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100416

Date: 07/01/2015  
Time: 14:44:44

SUPERVISOR NAME:  
COLLEEN S OBRYANT  
OPERATOR'S #: 6237

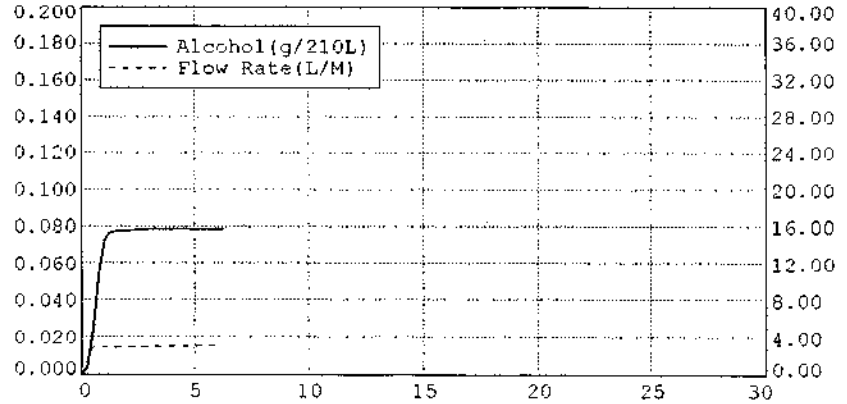
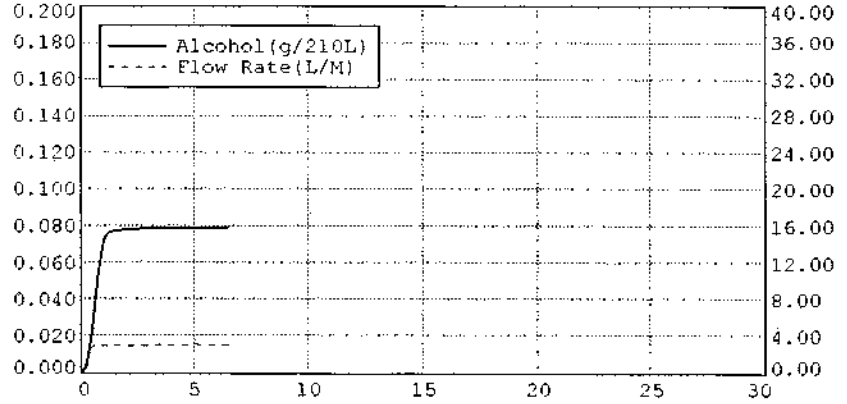
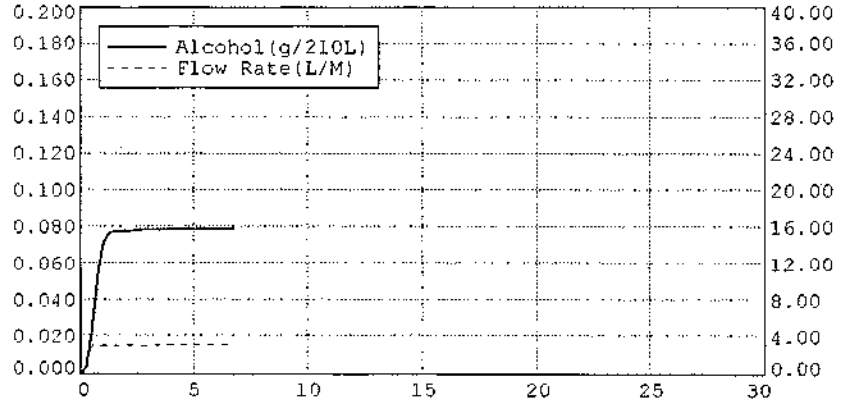
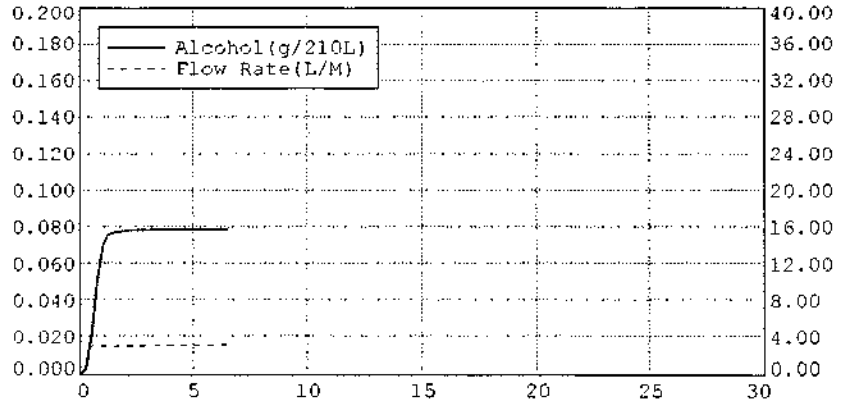
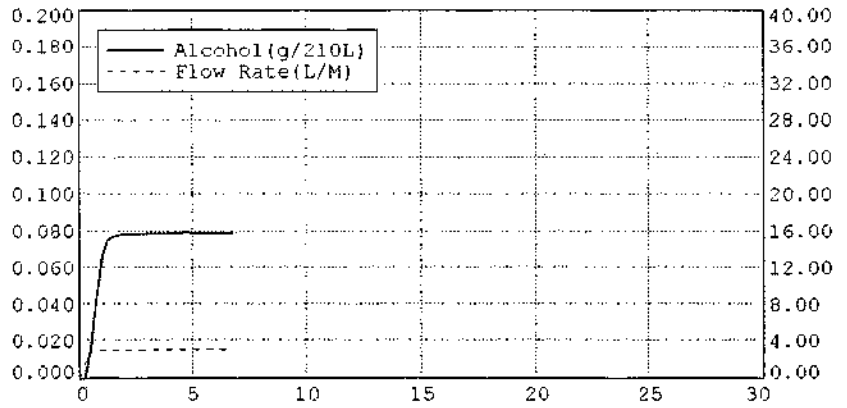
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.90: 0.080  
LOT #: 09214080A2  
EXPIRATION: 05/01/2016  
TANK PRESSURE: 648 psi

BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:45
Xq = 0.088	(2.65%)	
EXTERNAL STANDARD	0.081	14:46
X[1] = 0.0805	(0.0011) (0.0025)	
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.080	14:47
X[1] = 0.0801	(0.0008) (0.0024)	
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.080	14:48
X[1] = 0.0802	(0.0007) (0.0017)	
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.080	14:49
X[1] = 0.0805	(0.0012) (0.0020)	
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.080	14:50
X[1] = 0.0802	(0.0004) (0.0017)	
BLANK TEST	0.000	14:51

Average = 0.0802  
Std Dev = 0.0004

*Supervisor test following  
5-way valve replacement  
003 7/1/15*



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100416

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/09/2015

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.59: 0.079  
LOT #: 09214080A2  
EXPIRATION: 05/01/2016  
TANK PRESSURE: 608 psi

BLANK TEST	0.000	07:49
INTERNAL STANDARD	VERIFIED	07:49
Xq = 0.088 (2.75%)		
EXTERNAL STANDARD	0.080	07:50
X[1] = 0.0802 (0.0012) (0.0021)		
BLANK TEST	0.000	07:50
EXTERNAL STANDARD	0.081	07:51
X[1] = 0.0805 (0.0018) (0.0018)		
BLANK TEST	0.000	07:52
EXTERNAL STANDARD	0.080	07:52
X[1] = 0.0799 (0.0008) (0.0018)		
BLANK TEST	0.000	07:53
EXTERNAL STANDARD	0.080	07:53
X[1] = 0.0797 (0.0009) (0.0018)		
BLANK TEST	0.000	07:54
EXTERNAL STANDARD	0.080	07:54
X[1] = 0.0799 (0.0011) (0.0017)		
BLANK TEST	0.000	07:55

Average = 0.0802  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

DMT: 3.01  
PIC: 3.02  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.5°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.60 V	PASSED
(1.01 V - 2.35 V)	
Cooler Voltage = 1.63 V	PASSED
(1.00 V - 2.32 V)	
Bias Voltage = 82 V	PASSED
(49 V - 115 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

### PUMP INFO

Flow Rate = 4.658 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.002 V <= 0.010 V)	
PUMP OFF	PASSED
(0.003 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD PASSED

Xq = 0.088 2.45% (0.00% - 4.00%)

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

- (1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- (2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- (3) I am the Scientific Director of the State Breath Alcohol Program.
- (4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- (5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Bolz  
Scientific Director  
State Breath Alcohol Program

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_