

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMEF2015 R0
Status: Active

Instrument # 100395

Date: 5/31/17

Analyst: Colleen OBryant

1. Reason for instrument evaluation

Instrument giving persistent gas flow errors

2. Visual Inspection

3. Troubleshooting/Repair

Replaced regulator and ran a series of supervisor tests + VOCs

4. VOC (attached)

5. Internal Standard value $\leq 3.00\%$ Yes No

6. Verify software version

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 #: 100395

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/29/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.06: 0.078
LOT #: AG609504
EXPIRATION: 03/25/2018
TANK PRESSURE: 521 psi

BLANK TEST 0.000 13:34
INTERNAL STANDARD VERIFIED 13:34

Gas Flow Error

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.3°C PASSED
Breath Tube = 47.4°C PASSED

PUMP INFO

Flow Rate = 4.416 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

PASSED

prior to regulator replacement COB 5/31/17

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100395

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/31/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.47: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 879 psi

BLANK TEST	0.000	13:52
INTERNAL STANDARD	VERIFIED	13:52
EXTERNAL STANDARD	0.077	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.077	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.077	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.077	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.077	13:57
BLANK TEST	0.000	13:58

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 46.7°C PASSED
Breath Tube = 47.4°C PASSED

PUMP INFO

Flow Rate = 4.320 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

Tank #1

*After regulator replacement
05/31/17*

SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100395

Date: 05/31/2017
 Time: 14:00:36

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

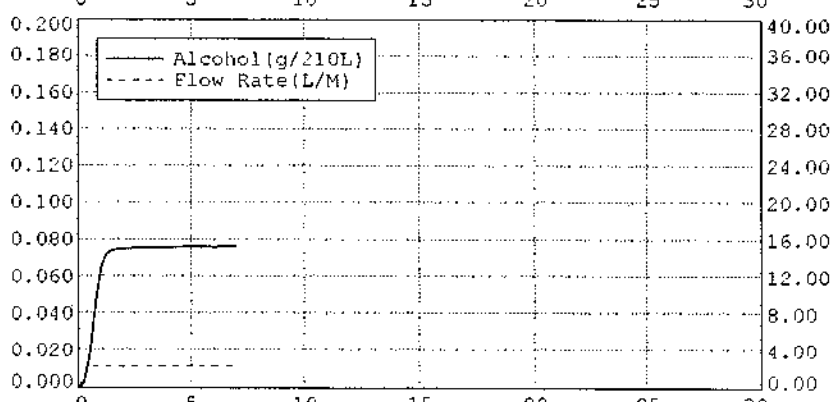
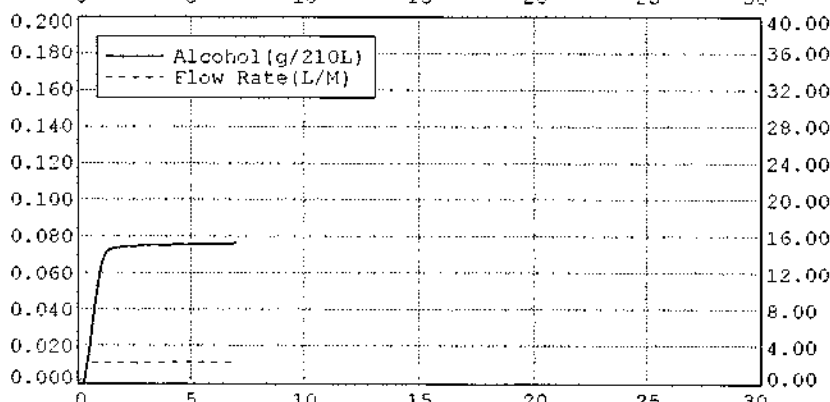
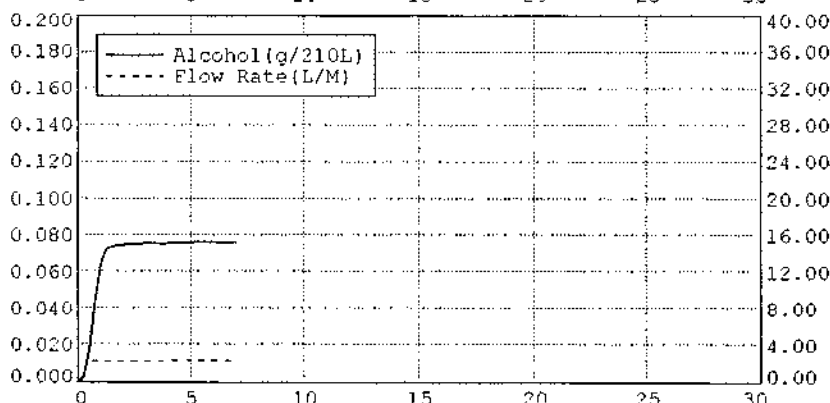
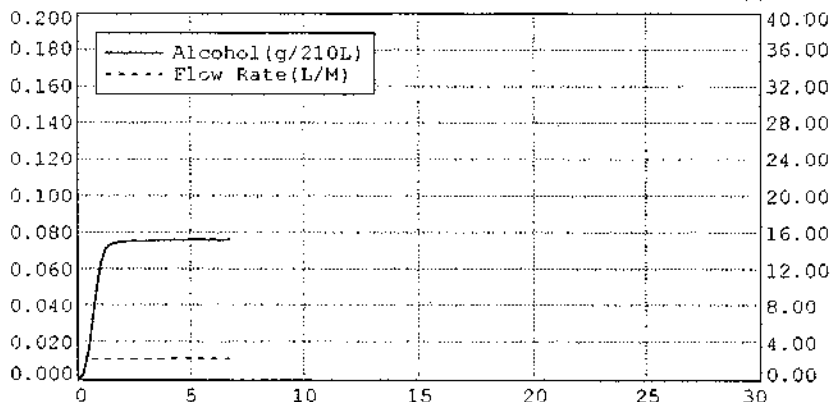
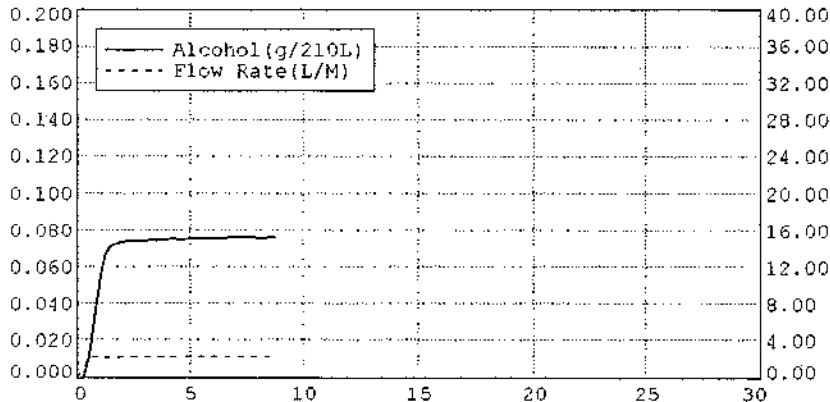
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.47: 0.079
 LOT #: AG634001
 EXPIRATION: 12/05/2018
 TANK PRESSURE: 827 psi

BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.078	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.078	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.078	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.077	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.078	14:08
BLANK TEST	0.000	14:09

Average = 0.0778
 Std Dev = 0.0004

*Tank #2
 After regulator
 replacement 05/31/17*



SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100395

Date: 05/31/2017
 Time: 14:11:04

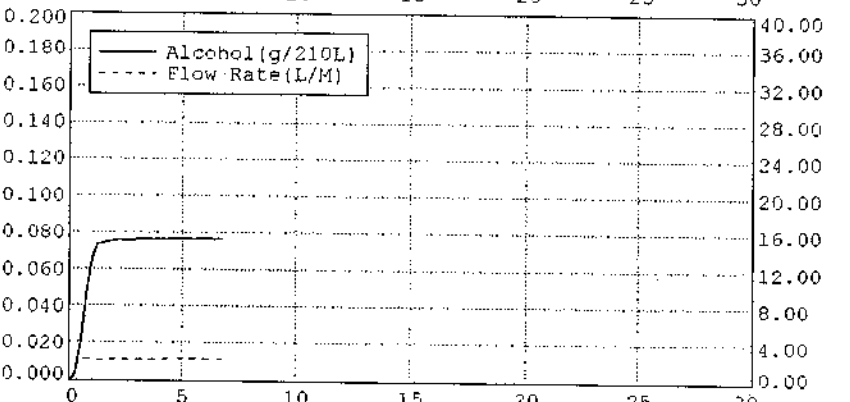
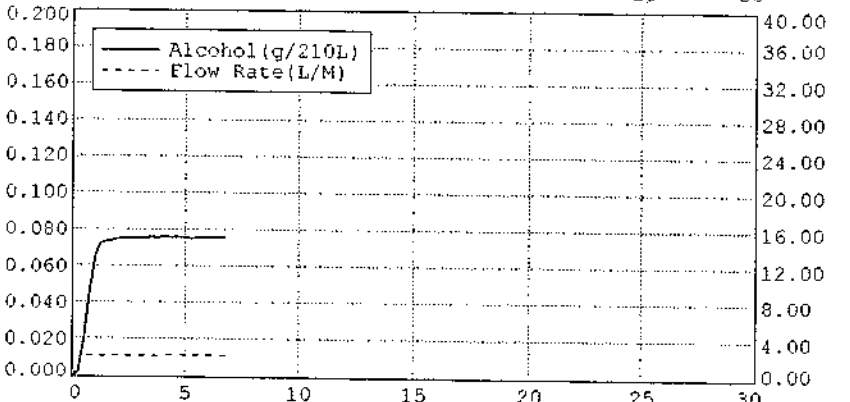
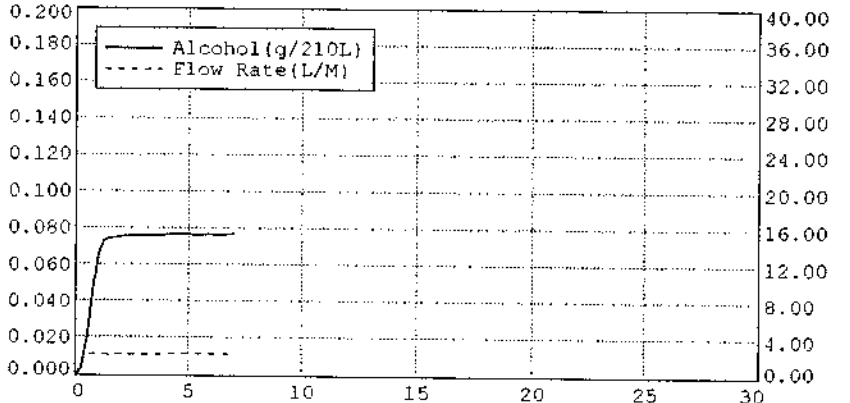
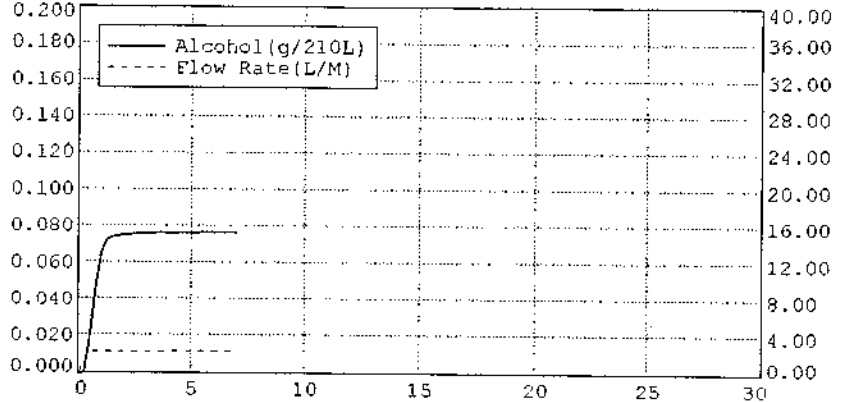
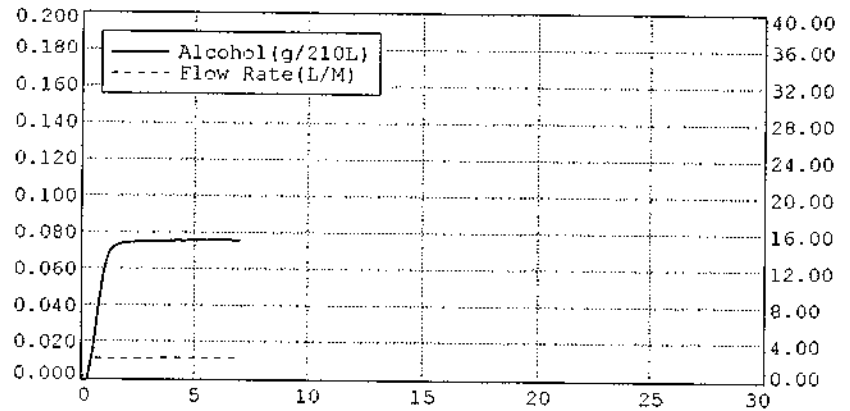
SUPERVISOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.47: 0.079
 LOT #: AG634001
 EXPIRATION: 12/05/2018
 TANK PRESSURE: 972 psi

BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.077	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.077	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.078	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.077	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.078	14:16
BLANK TEST	0.000	14:17

Average = 0.0774
 Std Dev = 0.0005

Tank #3
After regulator
replacement *CS*
5/31/17



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100395

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/31/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.47: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 958 psi

BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
Xq = 0.091 (0.87%)		
EXTERNAL STANDARD	0.078	14:21
X[1] = 0.0783 (-0.0011) (0.0015)		
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.078	14:22
X[1] = 0.0780 (-0.0017) (0.0011)		
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.077	14:23
X[1] = 0.0767 (-0.0018) (0.0019)		
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.078	14:24
X[1] = 0.0777 (-0.0013) (0.0011)		
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.078	14:25
X[1] = 0.0781 (-0.0014) (0.0009)		
BLANK TEST	0.000	14:26

Average = 0.0778
Std Dev = 0.0004

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.8°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 45.6°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.80 V (1.10 V - 2.56 V)	PASSED
Cooler Voltage = 1.67 V (1.03 V - 2.41 V)	PASSED
Bias Voltage = 79 V (47 V - 111 V)	PASSED
Chopper Freq = 531 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.306 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

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

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD PASSED
Xq = 0.091 (0.97%) (0.00% - 4.00%)