

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100357

Date: 01/09/20

Analyst: Derek Walter

1. Reason for instrument evaluation

Failed certification due to pump errors with simulator use

2. Visual Inspection

Clean

Replace missing screws

① Refer to 01/07/20
evaluation

Cermetex Box is secure

①

Ensure modem cable present

DW 01/09/20

Gas Valve upright or secured to wall

All tubing and connections are secure

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Pump error occurs as soon as simulator valve fires and pump turns on. Swapped new 5 way valve block out for old one for troubleshooting. During replacement, power supply began smoking. Shut off power and replaced power supply. Power supply OK now. Replaced new 5 way valve block with old one - still seeing flow issue. Tubing reversed - fixed. Flow voltages now appear normal with sim. valve open and closed. Removed old 5 way block due to being a "dead" part. Needs replacement 5 way block

17 DW 01/17/20

Replaced 5 way valve on 01/17/2020. Intoximeters determined previous 5 way valve was faulty (installed on 1/7/20). Ran multiple breath tests, VOC, and 0.300 simulator successfully.

5. VOC (attached)

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

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100357

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/10/2020

External Standard Test Values

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C

PASSED

Breath Tube = 43.7°C

PASSED

PUMP INFO

Flow Rate = 1.040 L/M

FAILED

DETECTOR INFO

PUMP ON

PASSED

PUMP OFF

PASSED

FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

INTERNAL STANDARD

PASSED

Diagnostic Check Failed

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100357

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/17/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.73: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1148 psi

BLANK TEST	0.000	14:06
INTERNAL STANDARD ✓	VERIFIED	14:06
Xq = 0.089 (1.39%)		
EXTERNAL STANDARD	0.078	14:06
X[1] = 0.0781 (-0.0029) (0.0000)		
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.078	14:07
X[1] = 0.0778 (-0.0028) (0.0003)		
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.078	14:08
X[1] = 0.0779 (-0.0024) (0.0002)		
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.078	14:09
X[1] = 0.0777 (-0.0024) (0.0003)		
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.078	14:10
X[1] = 0.0777 (0.0018) (-0.0002)		
BLANK TEST	0.000	14:11

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 42.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.07 V - 2.49 V)	
Cooler Voltage = 1.76 V	PASSED
(1.10 V - 2.58 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 511 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.584 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 ✓	PASSED
Xq = 0.088 0.10% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 01/17/2020
Time: 14:13:30

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

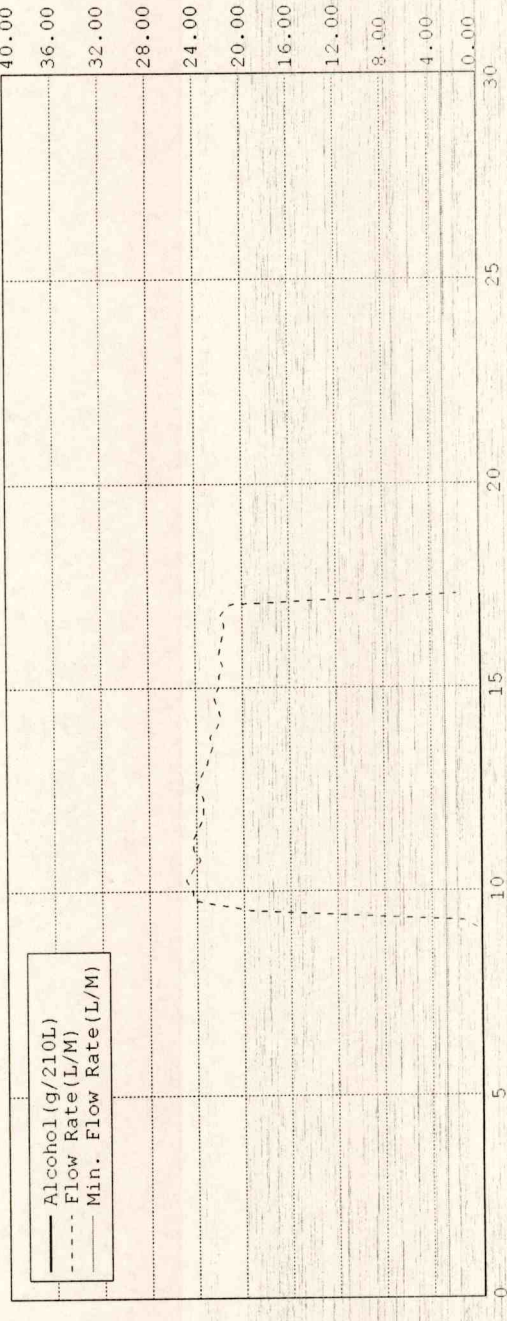
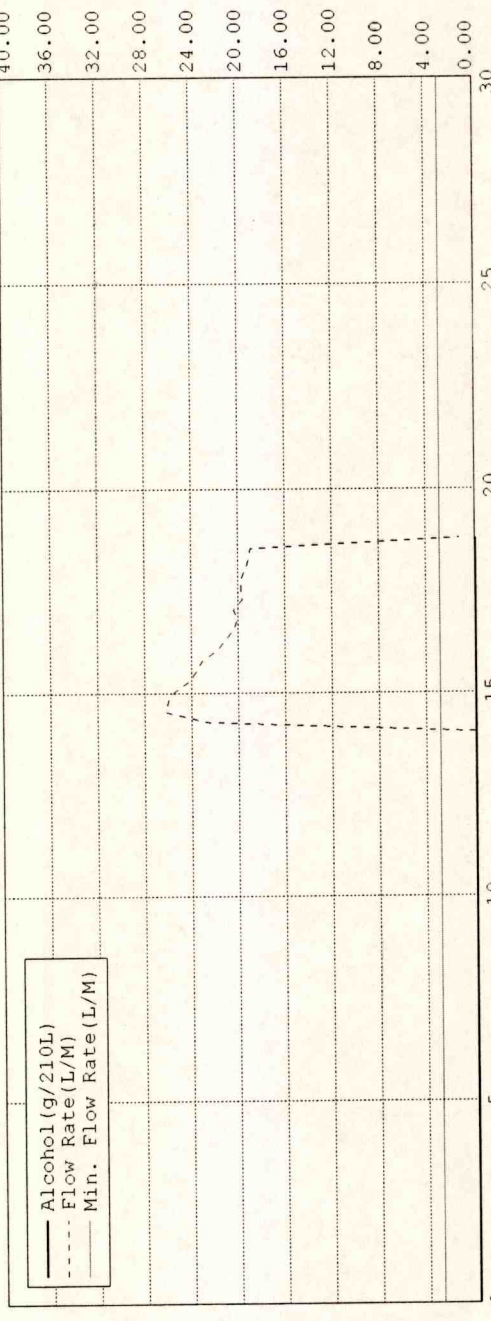
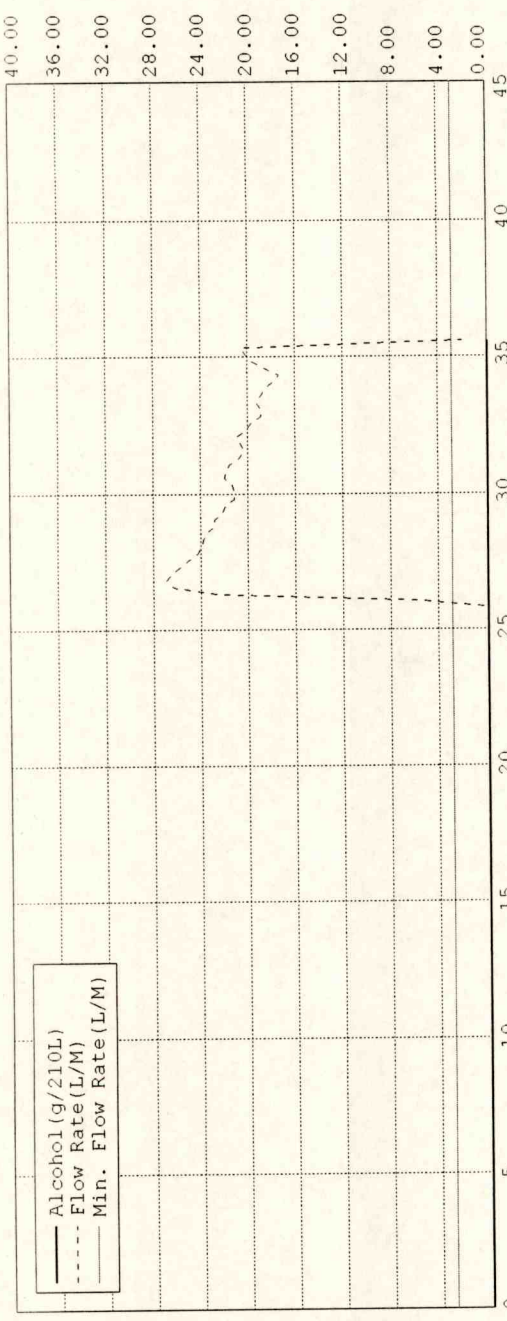
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

DEPT/AGENCY:
NON-DRINKING SUBJECT
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	14:14
BLANK TEST	0.000	14:14
INTERNAL STANDARD	VERIFIED	14:14
EXTERNAL STANDARD	0.078	14:15
BLANK TEST	0.000	14:16
SUBJECT SAMPLE (Vol=3.36L)	0.000	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.078	14:17
BLANK TEST	0.000	14:18
SUBJECT SAMPLE (Vol=1.64L)	0.000	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.079	14:20
BLANK TEST	0.000	14:21
SUBJECT SAMPLE (Vol=2.96L)	0.000	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.079	14:22
BLANK TEST	0.000	14:23



SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100357

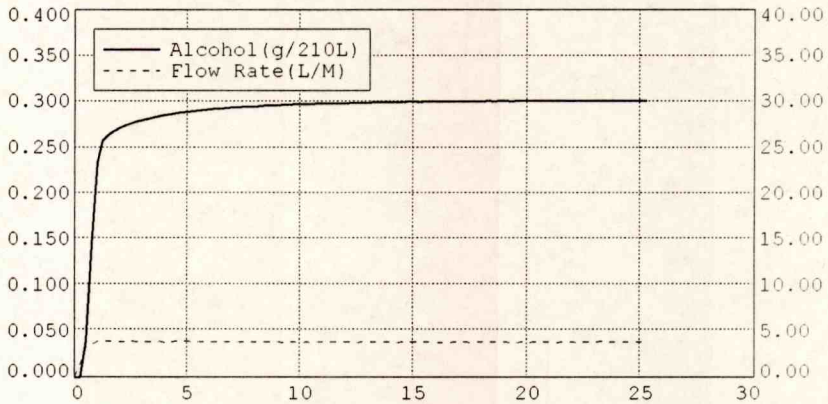
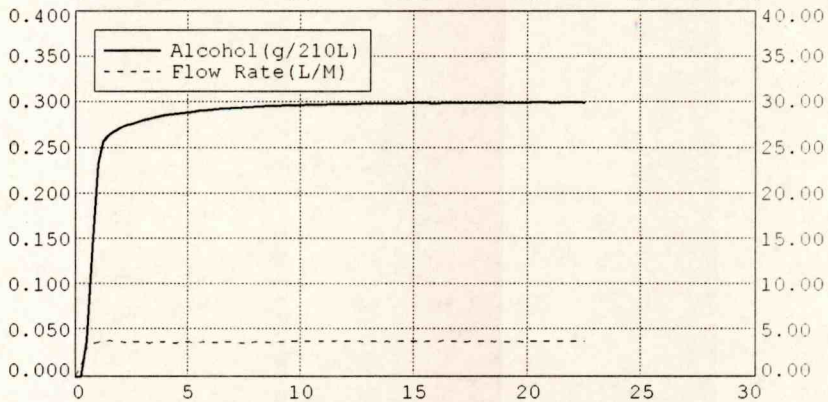
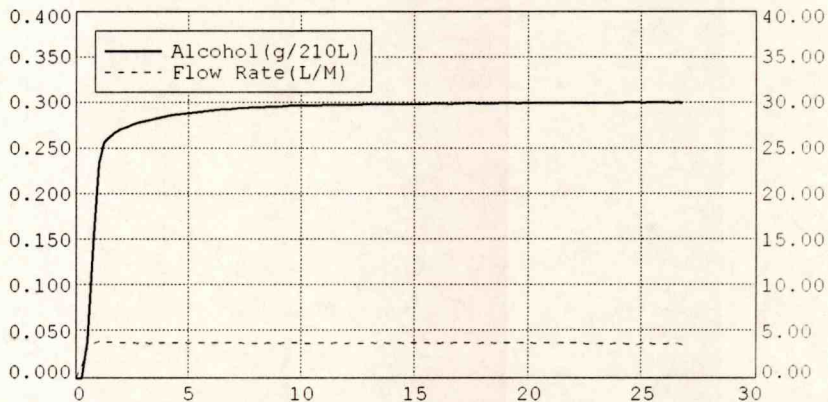
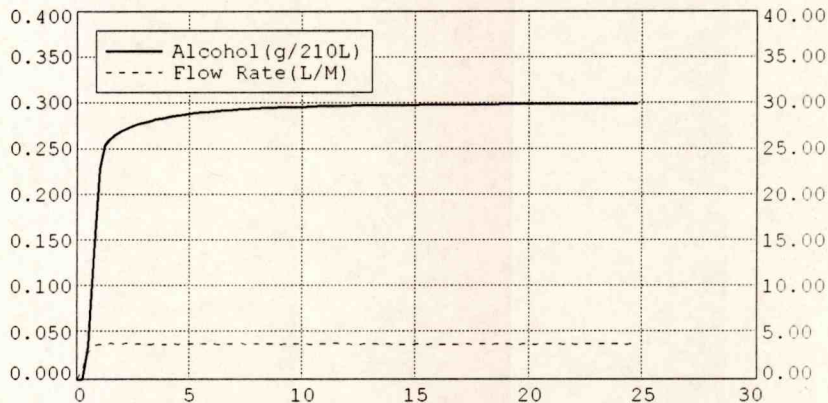
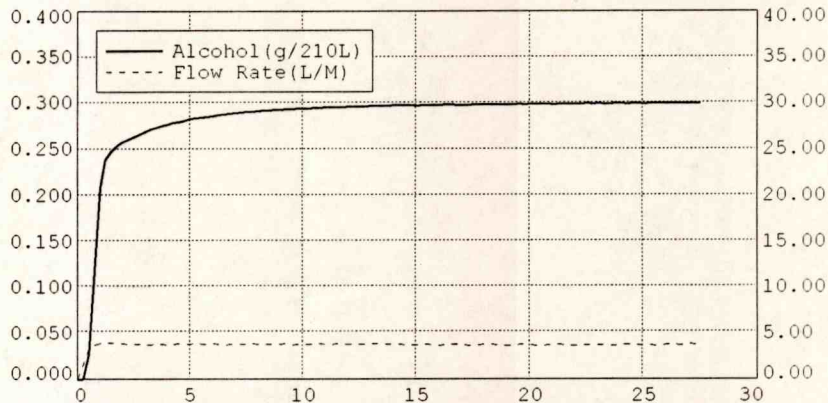
Date: 01/17/2020
 Time: 14:49:08

SUPERVISOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300

BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.298	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.299	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.299	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.299	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.300	14:56
BLANK TEST	0.000	14:57

Average = 0.2990
 Std Dev = 0.0007



SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 01/17/2020
Time: 14:59:53

SUPERVISOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300

BLANK TEST	0.000	15:00
INTERNAL STANDARD	VERIFIED	15:01
EXTERNAL STANDARD	0.300	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.301	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.300	15:04
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.301	15:06
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.301	15:07
BLANK TEST	0.000	15:08

Average = 0.3006
Std Dev = 0.0005

