

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100367

Date: 02/14/20

Analyst: Derek Walton

1. Reason for instrument evaluation

Checkout after return from factory repair

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

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

Ran VOC and breath tests Ok.

Ran 0.300 Simulator on 02/26/2020 Ok

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 #: 100367

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/14/2020

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.43: 0.079  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 762 psi

BLANK TEST	0.000	13:16
INTERNAL STANDARD ✓	VERIFIED	13:16
Xq = 0.081 (0.64%)		
EXTERNAL STANDARD	0.080	13:16
X[1] = 0.0801 (-0.0014) (-0.0004)		
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.080	13:18
X[1] = 0.0799 (-0.0014) (-0.0007)		
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.080	13:19
X[1] = 0.0800 (-0.0017) (-0.0011)		
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.080	13:20
X[1] = 0.0796 (-0.0022) (-0.0016)		
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.080	13:21
X[1] = 0.0801 (-0.0021) (-0.0009)		
BLANK TEST	0.000	13:22

Average = 0.0800  
Std Dev = 0.0000

## Diagnostic Check

VERSIONS ✓  
DMT: 3.02 ✓  
PIC: 3.06  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.9°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.59 V	PASSED
(0.92 V - 2.16 V)	
Cooler Voltage = 1.61 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 516 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

### PUMP INFO

Flow Rate = 4.608 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 = 0.081 0.75%	(0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100367

Date: 02/14/2020  
Time: 13:52:47

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

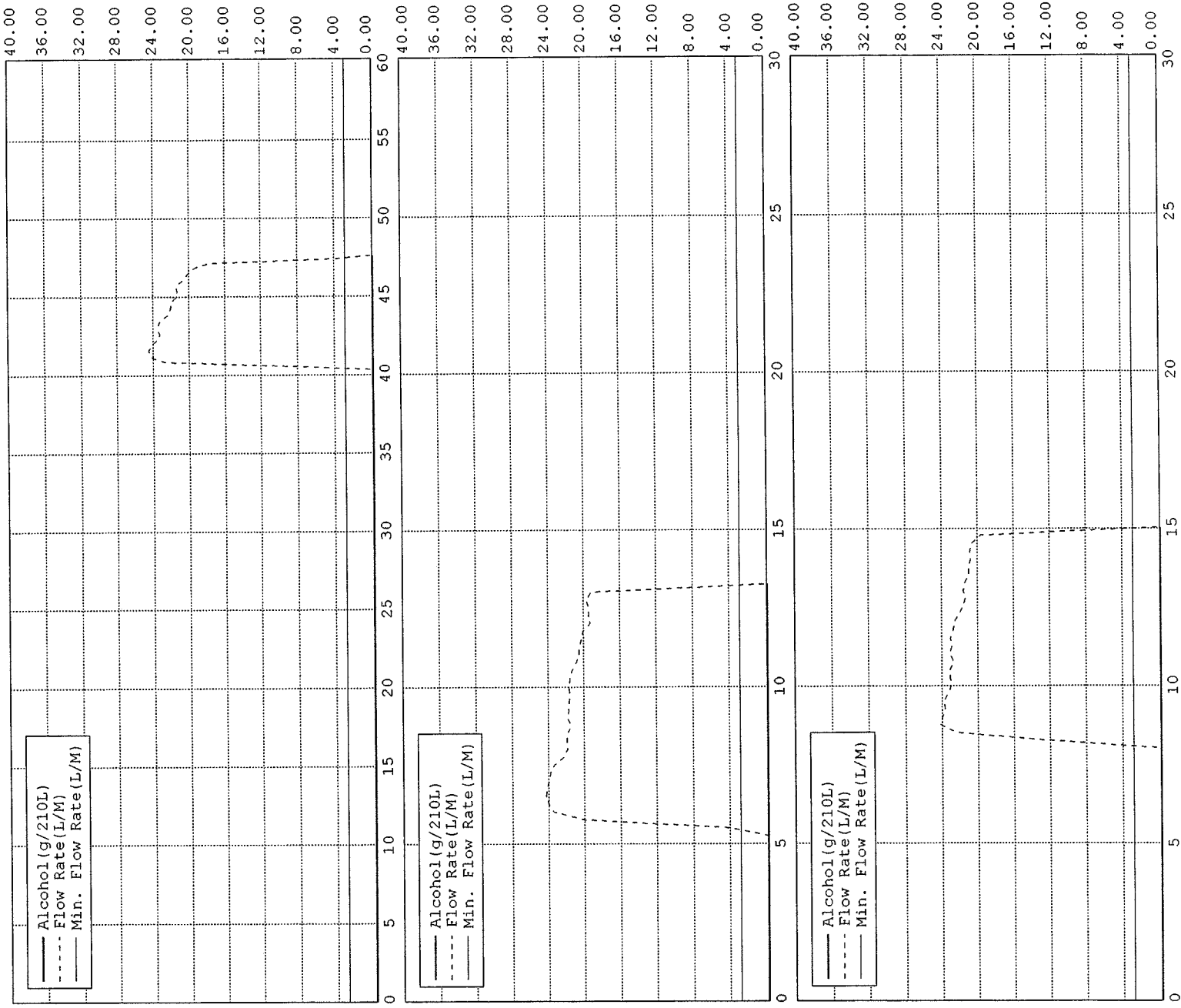
OPERATOR NAME:  
DEREK WALTON  
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.43: 0.079  
LOT #: AG826101  
EXPIRATION: 09/18/2020

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	13:55
BLANK TEST	0.000	13:55
INTERNAL STANDARD	VERIFIED	13:55
EXTERNAL STANDARD	0.080	13:55
BLANK TEST	0.000	13:56
SUBJECT SAMPLE (Vol=2.47L)	0.000	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.081	13:58
BLANK TEST	0.000	13:59
SUBJECT SAMPLE (Vol=2.72L)	0.000	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.081	14:01
BLANK TEST	0.000	14:02
SUBJECT SAMPLE (Vol=2.48L)	0.000	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.081	14:03
BLANK TEST	0.000	14:04



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100367

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/26/2020

## External Standard Test Values

## Diagnostic Check

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.27: 0.078  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 687 psi

### VERSIONS

DMT: 3.02  
PIC: 3.06  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.7°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 42.3°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.59 V PASSED  
(0.92 V - 2.16 V)  
Cooler Voltage = 1.60 V PASSED  
(1.01 V - 2.35 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 526 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.3 in

### PUMP INFO

Flow Rate = 4.389 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 = 0.081 0.21% PASSED  
(0.00% - 4.00%)

BLANK TEST 0.000 10:05  
INTERNAL STANDARD VERIFIED 10:05  
Xq = 0.082 (0.11%)  
EXTERNAL STANDARD 0.080 10:05  
X[1] = 0.0797 (-0.0022) (-0.0002)  
BLANK TEST 0.000 10:06  
EXTERNAL STANDARD 0.080 10:06  
X[1] = 0.0795 (-0.0019) (-0.0002)  
BLANK TEST 0.000 10:07  
EXTERNAL STANDARD 0.079 10:07  
X[1] = 0.0794 (-0.0022) (-0.0003)  
BLANK TEST 0.000 10:08  
EXTERNAL STANDARD 0.079 10:09  
X[1] = 0.0794 (0.0009) (-0.0001)  
BLANK TEST 0.000 10:09  
EXTERNAL STANDARD 0.080 10:10  
X[1] = 0.0796 (-0.0001) (-0.0002)  
BLANK TEST 0.000 10:11

Average = 0.0796  
Std Dev = 0.0005

SUPERVISOR TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100367

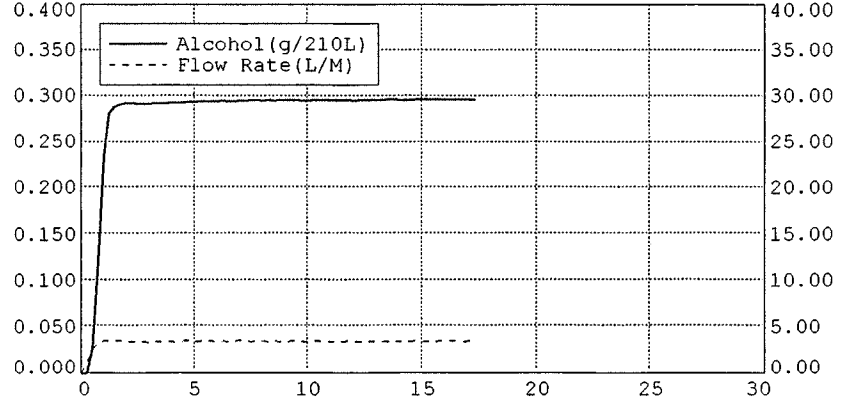
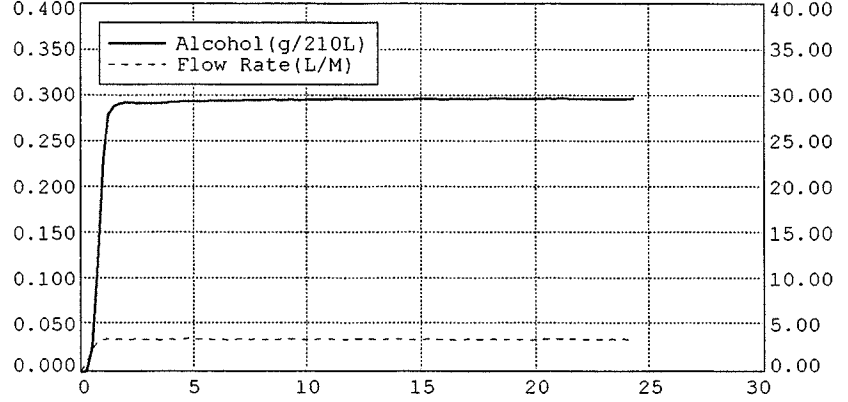
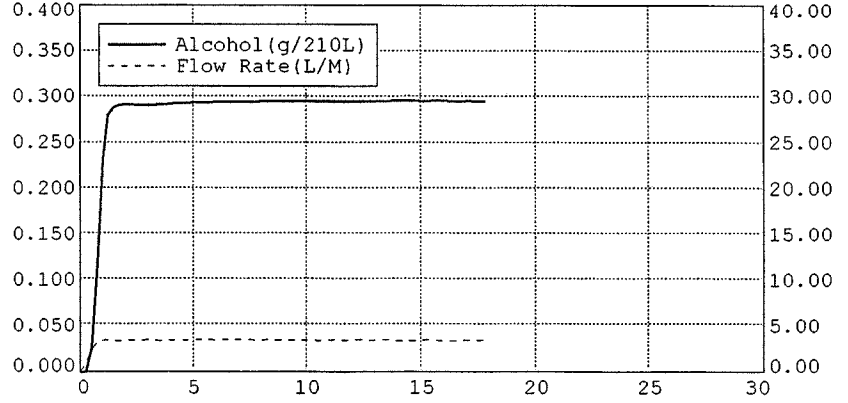
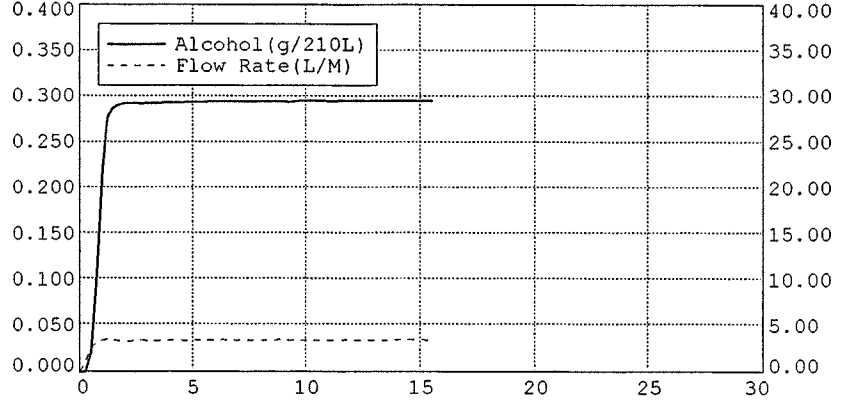
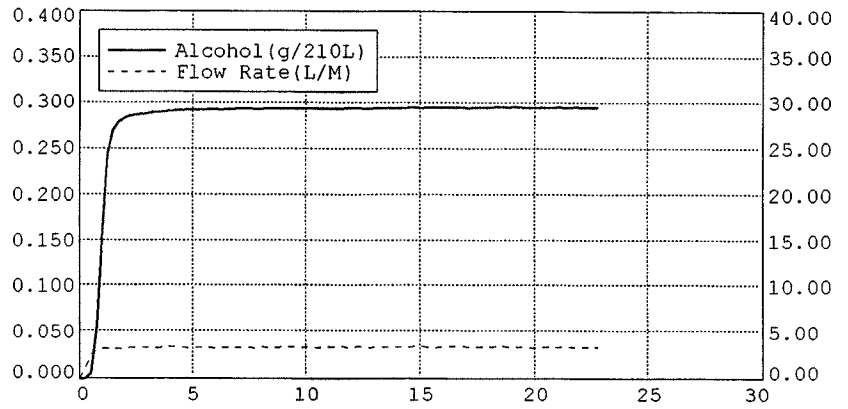
Date: 02/26/2020  
Time: 10:11:45

SUPERVISOR NAME:  
DEREK WALTON  
OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.300

BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
EXTERNAL STANDARD	0.294	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.293	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.294	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.295	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.295	10:19
BLANK TEST	0.000	10:19

Average = 0.2942  
Std Dev = 0.0008



SUPERVISOR TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100367

Date: 02/26/2020  
Time: 10:21:46

SUPERVISOR NAME:  
DEREK WALTON  
OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.300

BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED 0.295	10:23
EXTERNAL STANDARD	0.296	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.295	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.295	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.295	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.295	10:29
BLANK TEST	0.000	10:29

Average = 0.2952  
Std Dev = 0.0004

