

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 05/15/2020  
Effective: 05/15/2020

Version: DMEF 2020 R0  
Status: Active

Instrument # 100351

Start Date: 07/13/21

Analysts: Derek Walton

### Reason for instrument evaluation

Internal standard error, blank errors, interference detected, and static analysis error in the field. Would not upload on check in.

### Visual Inspection

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Clean   | <input checked="" type="checkbox"/> Replace missing screws                |
| <input checked="" type="checkbox"/> Cermetex Box is secure                                    | <input checked="" type="checkbox"/> Ensure modem cable present            |
| <input checked="" type="checkbox"/> Gas Valve upright or secured to wall                      | <input checked="" type="checkbox"/> All tubing and connections are secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag |   |

### Troubleshooting/Repair

Instrument has been refurbished already. Removed the SD card and verified all records already in DMHost using the computer. Was freezing when USB drive was inserted or on attempted upload. Replaced SD card. Now uploads normally. Does not freeze with USB drive insertion. Loaded 3.02 full version.

No further status messages observed during evaluation.

- VOC (attached)
- Internal Standard value  $\leq 3.00\%$
- Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

End Date: 07/13/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100351

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/13/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.81: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 1027 psi

BLANK TEST 0.000 09:58  
INTERNAL STANDARD ✓ VERIFIED 09:59  
Xq = 0.123 (1.24%)  
EXTERNAL STANDARD 0.078 09:59  
X[1] = 0.0782 (-0.0014) (-0.0020)  
BLANK TEST 0.000 10:00  
EXTERNAL STANDARD 0.078 10:00  
X[1] = 0.0783 (-0.0016) (-0.0024)  
BLANK TEST 0.000 10:01  
EXTERNAL STANDARD 0.079 10:01  
X[1] = 0.0786 (-0.0014) (-0.0021)  
BLANK TEST 0.000 10:02  
EXTERNAL STANDARD 0.078 10:02  
X[1] = 0.0782 (-0.0018) (-0.0025)  
BLANK TEST 0.000 10:03  
EXTERNAL STANDARD 0.079 10:03  
X[1] = 0.0786 (-0.0017) (-0.0024)  
BLANK TEST 0.000 10:04

Average = 0.0784  
Std Dev = 0.0005

## Diagnostic Check

VERSIONS ✓  
DMT: 3.02  
PIC: 3.03  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.9°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 44.3°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.87 V PASSED  
(1.15 V - 2.69 V)  
Cooler Voltage = 1.83 V PASSED  
(1.12 V - 2.60 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 511 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.530 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 = 0.124 1.53% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100351

Date: 07/13/2021

Time: 10:07:59

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

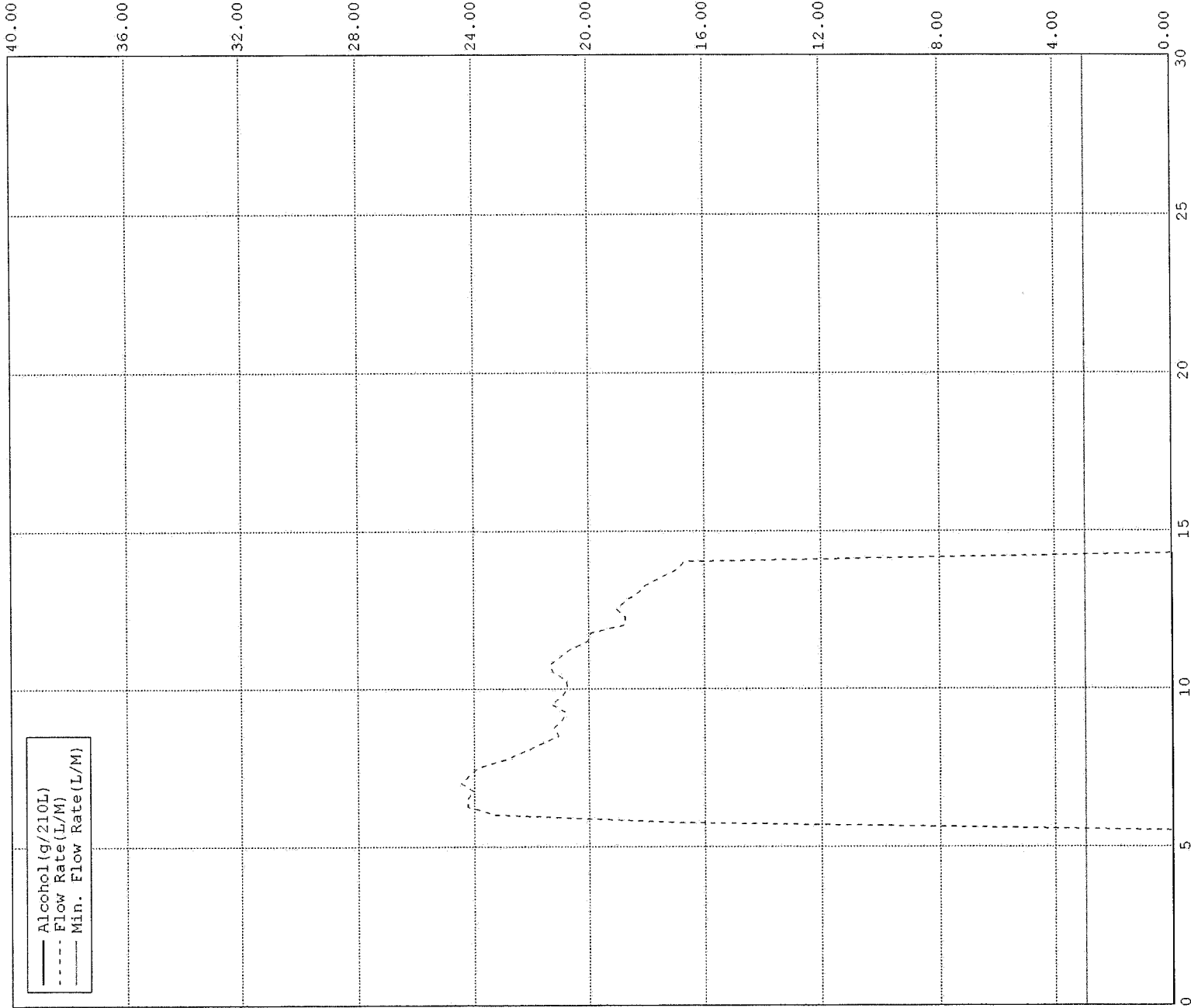
TARGET AT 29.81: 0.080

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	10:11
BLANK TEST	0.000	10:11
INTERNAL STANDARD	VERIFIED	10:11
EXTERNAL STANDARD	0.078	10:11
BLANK TEST	0.000	10:12
SUBJECT SAMPLE (Vol=2.95L)	0.000	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.079	10:14
BLANK TEST	0.000	10:14

*MJC*



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100351

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/13/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.81: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 1005 psi

BLANK TEST 0.000 10:23  
INTERNAL STANDARD ✓ VERIFIED 10:23  
Xq = 0.122 (0.58%)  
EXTERNAL STANDARD 0.079 10:23  
X[1] = 0.0786 (-0.0001) (-0.0005)  
BLANK TEST 0.000 10:24  
EXTERNAL STANDARD 0.079 10:24  
X[1] = 0.0786 (-0.0005) (-0.0007)  
BLANK TEST 0.000 10:25  
EXTERNAL STANDARD 0.079 10:25  
X[1] = 0.0792 (-0.0008) (-0.0015)  
BLANK TEST 0.000 10:26  
EXTERNAL STANDARD 0.078 10:27  
X[1] = 0.0785 (-0.0009) (-0.0005)  
BLANK TEST 0.000 10:28  
EXTERNAL STANDARD 0.079 10:28  
X[1] = 0.0788 (-0.0007) (-0.0002)  
BLANK TEST 0.000 10:29

Average = 0.0788  
Std Dev = 0.0004

## Diagnostic Check

VERSIONS ✓  
DMT: 3.02  
PIC: 3.03  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 49.0°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 44.8°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.87 V PASSED  
(1.15 V - 2.69 V)  
Cooler Voltage = 1.83 V PASSED  
(1.12 V - 2.60 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 518 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.581 L/M PASSED  
(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON PASSED  
(0.001 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 = 0.123 1.17% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100351

Date: 07/13/2021

Time: 10:31:26

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 29.81: 0.080

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	10:32
BLANK TEST	0.000	10:32
INTERNAL STANDARD	VERIFIED	10:32
EXTERNAL STANDARD	0.079	10:33
BLANK TEST	0.000	10:33
SUBJECT SAMPLE (Vol=2.40L)	0.000	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.079	10:35
BLANK TEST	0.000	10:36
SUBJECT SAMPLE (Vol=2.91L)	0.000	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.079	10:37
BLANK TEST	0.000	10:38
SUBJECT SAMPLE (Vol=2.50L)	0.000	10:39
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.079	10:40
BLANK TEST	0.000	10:41

*DW*

