

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100350

Date: 06/24/2019

Analyst: Derek Walton

1. Reason for instrument evaluation

Status messages : filter 3 won't zero

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

Replaced o-ring.

Filter zeroing issue was not observed during evaluation.

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 #: 100350

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/24/2019

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.76: 0.080  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 300 psi

BLANK TEST 0.000 13:13  
INTERNAL STANDARD VERIFIED 13:13  
Xq = 0.103 (0.60%)  
EXTERNAL STANDARD 0.078 13:14  
X[1] = 0.0776 (-0.0020) (-0.0022)  
BLANK TEST 0.000 13:15  
EXTERNAL STANDARD 0.078 13:15  
X[1] = 0.0779 (-0.0019) (0.0008)  
BLANK TEST 0.000 13:16  
EXTERNAL STANDARD 0.077 13:16  
X[1] = 0.0774 (-0.0023) (-0.0014)  
BLANK TEST 0.000 13:17  
EXTERNAL STANDARD 0.077 13:17  
X[1] = 0.0770 (-0.0029) (-0.0012)  
BLANK TEST 0.000 13:18  
EXTERNAL STANDARD 0.077 13:18  
X[1] = 0.0771 (-0.0017) (-0.0001)  
BLANK TEST 0.000 13:19

Average = 0.0774  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

DMT: 3.02  
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 = 1.88 V PASSED  
(1.09 V - 2.53 V)  
Cooler Voltage = 1.82 V PASSED  
(1.12 V - 2.62 V)  
Bias Voltage = 79 V PASSED  
(48 V - 112 V)  
Chopper Freq = 507 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.464 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  
(0.003 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

Xq = 0.104 (1.20%) (0.00% - 4.00%) PASSED

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100350

Date: 06/24/2019  
Time: 13:32:45

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 29.76: 0.080  
LOT #: AG826101  
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	13:33
BLANK TEST	0.000	13:34
INTERNAL STANDARD	VERIFIED	13:34
$X_q = 0.104$ (1.03%)		
EXTERNAL STANDARD	0.078	13:34
$X[1] = 0.0780$ (-0.0006)	(0.0003)	
BLANK TEST	0.000	13:35
SUBJECT SAMPLE (Vol=2.97L)	0.000	13:35
$X[1] = 0.0000$ (0.0000)	(-0.0005)	
BLANK TEST	0.000	13:36
SUBJECT SAMPLE (Vol=2.83L)	0.000	13:37
$X[1] = 0.0002$ (-0.0001)	(-0.0004)	
BLANK TEST	0.000	13:38
SUBJECT SAMPLE (Vol=4.08L)	0.000	13:38
$X[1] = 0.0003$ (-0.0001)	(-0.0001)	
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.078	13:39
$X[1] = 0.0783$ (-0.0001)	(0.0008)	
BLANK TEST	0.000	13:40

