

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF 2020 R0  
Status: Active

Instrument # 100374

Start Date: 03/25/2021

Analysts: Derch Walton

Reason for instrument evaluation

Failed certification on linearity

### Visual Inspection

- |                                                                                    |                                                                |                                                                 |
|------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|
| <input type="checkbox"/> Clean                                                     | <input type="checkbox"/> Replace missing screws                | <i>refer to evaluation<br/>from 03/22/2021<br/>JMW 03/25/21</i> |
| <input type="checkbox"/> Cermetex Box is secure                                    | <input type="checkbox"/> Ensure modem cable present            |                                                                 |
| <input type="checkbox"/> Gas Valve upright or secured to wall                      | <input type="checkbox"/> All tubing and connections are secure |                                                                 |
| <input type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag |                                                                |                                                                 |

### Troubleshooting/Repair

Recommend recalibration due to failed linearity

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

- |                                                       |                                                           |
|-------------------------------------------------------|-----------------------------------------------------------|
| <input type="checkbox"/> Return to Factory for Repair | <input checked="" type="checkbox"/> Ready for Calibration |
| <input type="checkbox"/> Ready for Certification      | <input type="checkbox"/> Proceed to Close Out             |

End Date: 03/25/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100374

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/25/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.64: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 989 psi

BLANK TEST	0.000	15:40
INTERNAL STANDARD ✓	VERIFIED	15:40
Xq = 0.088 (0.80%)		
EXTERNAL STANDARD	0.079	15:40
X[1] = 0.0791 (-0.0023) (0.0008)		
BLANK TEST	0.000	15:41
EXTERNAL STANDARD	0.080	15:41
X[1] = 0.0798 (-0.0016) (0.0000)		
BLANK TEST	0.000	15:42
EXTERNAL STANDARD	0.079	15:42
X[1] = 0.0793 (-0.0025) (0.0004)		
BLANK TEST	0.000	15:43
EXTERNAL STANDARD	0.080	15:43
X[1] = 0.0796 (-0.0020) (0.0005)		
BLANK TEST	0.000	15:44
EXTERNAL STANDARD	0.079	15:44
X[1] = 0.0792 (-0.0024) (0.0000)		
BLANK TEST	0.000	15:45

Average = 0.0794  
Std Dev = 0.0005

## Diagnostic Check

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

### TEMPERATURES

Sample Chamber = 48.9°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 48.0°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.59 V PASSED  
(0.97 V - 2.27 V)  
Cooler Voltage = 1.53 V PASSED  
(0.97 V - 2.25 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 521 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.6 in

### PUMP INFO

Flow Rate = 4.913 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 = 0.087 0.30% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100374

Date: 03/25/2021  
Time: 15:52:27

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 29.63: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	15:53
BLANK TEST	0.000	15:53
INTERNAL STANDARD	VERIFIED	15:53
EXTERNAL STANDARD	0.079	15:53
BLANK TEST	0.000	15:54
SUBJECT SAMPLE (Vol=2.30L)	0.000	15:55
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.080	15:56
BLANK TEST	0.000	15:57

