

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100682

Date: 11/02/2018

Analyst: Dereck Walton

1. Reason for instrument evaluation

Internal standard errors, detector overflow in field

2. 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 |

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

4. Troubleshooting/Repair

Replaced o-ring. Detector voltage 2.086. Adjusted lamp, bias, cooler, and chopper to bring detector voltage into normal range.

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

Technician Screen

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DATAMASTER dmt: 100682  
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Date: 11/02/2018  
Time: 10:31 AM

Temperatures (°C)  
Sample Cell: 48.6°C  
Breath Tube: 47.5°C

Current Barometer 29.4 in  
Volume (Ltr) 0.82

Settings  
Lamp: 2.29 V  
Bias: 80 V  
Cooler: 1.76 V  
Chopper: 524 Hz

Voltages (V)  
Flow: 1.04 V  
Detector: -0.042 V

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100682

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/02/2018

## External Standard Test Values

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.1°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 47.5°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 2.29 V PASSED  
(1.09 V - 2.53 V)  
Cooler Voltage = 1.76 V PASSED  
(1.04 V - 2.44 V)  
Bias Voltage = 80 V PASSED  
(47 V - 109 V)  
Chopper Freq = 525 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.4 in

### PUMP INFO

Flow Rate = 4.572 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

Xg = 0.094 10.48% (0.00% - 4.00%) FAILED

Diagnostic Check Failed