

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100359

Analyst(s): Carlie Glaister

Start Date: 8/30/2022

Reason for instrument evaluation

Screen issues & Detector overflow errors

### Visual Inspection

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

### Troubleshooting/Repair

Installed screen. Screen appears to be operating normally.  
Detector voltage is drifting while lamp/bias/cooler/chopper remain stable.  
Replaced detector. Detector voltage appears to be remaining stable.

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> VOC (attached)   | <input checked="" type="checkbox"/> Verify software version  |
| <input checked="" type="checkbox"/> VOC Internal Standard value $\leq 3.00\%$<br><u>16.34%</u> | <input checked="" type="checkbox"/> Non-Drinking Subject Test (attached) <u>CLB</u><br><u>9/1/2022</u> |
| <input type="checkbox"/> Return to Factory   | <input checked="" type="checkbox"/> Ready for Calibration  |
| <input type="checkbox"/> Ready for Certification   | <input type="checkbox"/> Proceed to Close Out  |
| <input type="checkbox"/> Further Evaluation Needed   |  |

End Date: 9/1/2022

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Approved by: Chemistry Supervisor

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100359

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/01/2022

## External Standard Test Values

## Diagnostic Check

### VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.9°C

(44.0°C - 52.0°C)

PASSED

Breath Tube = 45.2°C

(38.0°C - 50.0°C)

PASSED

### SETTINGS

Lamp Voltage = 1.55 V

(1.03 V - 2.39 V)

PASSED

Cooler Voltage = 1.43 V

(0.95 V - 2.21 V)

PASSED

Bias Voltage = 84 V

(48 V - 112 V)

PASSED

Chopper Freq = 520 Hz

(475 Hz - 575 Hz)

PASSED

Barometer = 29.2 in

### PUMP INFO

Flow Rate = 4.192 L/M

(3.500 L/M - 6.500 L/M)

PASSED

### DETECTOR INFO

PUMP ON

(0.001 V <= 0.010 V)

PASSED

PUMP OFF

(0.001 V <= 0.010 V)

PASSED

### FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

### INTERNAL STANDARD

FAILED

Xq = 0.098 16.34% (0.00% - 4.00%)

Diagnostic Check Failed