

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100674

Start Date: 03/08/21

Analysts: Derek Walton

Reason for instrument evaluation

Failed calibration due to Detector Overflow then Adjustment Error

Visual Inspection

- | | | |
|------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------|
| <input type="checkbox"/> Clean | <input type="checkbox"/> Replace missing screws | Refer to evaluation |
| <input type="checkbox"/> Cermetex Box is secure | <input type="checkbox"/> Ensure modem cable present | from 11/13/20 |
| <input type="checkbox"/> Gas Valve upright or secured to wall | <input type="checkbox"/> All tubing and connections are secure | DW 03/08/21 |
| <input type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag | | |

Troubleshooting/Repair

Replaced detector due to status messages after checking detector in Technician Mode (values normal)

Adjusted lamp and cooler voltages (values/voltages needed were near the top of the range). Disposed of this detector and installed newer detector - values more typical.

- VOC (attached)
- Internal Standard value $\leq 3.00\%$ ND - 7.04%
- Verify software version

- Return to Factory for Repair
- Ready for Certification

- Ready for Calibration
- Proceed to Close Out

End Date: 03/08/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100674

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2021

External Standard Test Values

Diagnostic Check

VERSIONS

DMT: 3.02 ✓
PIC: 3.05
Modem: 1.6
Questioner: 1.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 41.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.06 V PASSED
(1.08 V - 2.52 V)
Cooler Voltage = 1.80 V PASSED
(1.10 V - 2.56 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 528 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 4.990 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON = 0.010 V PASSED
(0.000 V - 0.010 V)
PUMP OFF = 0.010 V PASSED
(0.000 V - 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.104 7.04% (0.00% - 4.00%) FAILED

Diagnostic Check Failed