

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100376

Date: 03/06/20

Analyst: Derek Walton

1. Reason for instrument evaluation

Filter wheel errors

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

Recalibrated touch screen. Replaced regulator o-ring.

Routed filter wires separately.

Loaded full version of 3.02 software.

Detector above 1 volt, adjusted lamp voltage.

Ran 27 filter cycles with zero errors.

Due to nature of status messages, recommend return to factory.

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 #: 100376

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/06/2020

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 PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.70 V PASSED
(0.98 V - 2.30 V)
Cooler Voltage = 1.56 V PASSED
(0.98 V - 2.28 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 522 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.437 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 ✓ FAILED
Xq = 0.085 9.76% (0.00% - 4.00%)

Diagnostic Check Failed

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(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.399 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 ✓

Xq = 0.085 10.21% (0.00% - 4.00%) FAILED

Diagnostic Check Failed