

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100361

Date: 01/08/20

Analyst: Derch Walton

1. Reason for instrument evaluation

Detector overflow in field

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

Replaced o-ring.

Added modem cable.

Detector voltage > 1.5V, adjusted lamp and cooler voltages.

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 #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/08/2020

External Standard Test Values

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.03

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C

PASSED

Breath Tube = 39.5°C

PASSED

PUMP INFO

Flow Rate = 4.059 L/M

PASSED

DETECTOR INFO

PUMP ON

PASSED

PUMP OFF

PASSED

Detector Overflow

Technician Screen

DATAMASTER dmt: 100361

Date: 01/08/2020
Time: 11:08 AM

Temperatures (°C)

Sample Cell: 48.6°C
Breath Tube: 39.4°C

Current Barometer 29.8 in
Volume (Ltr) 0.00

Settings

Lamp: 2.13 V
Bias: 80 V
Cooler: 1.91 V
Chopper: 527 Hz

Voltages (V)

Flow: 1.04 V
Detector: -0.005 V

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 01/08/2020
Time: 11:13:47

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 39.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.13 V PASSED
(1.34 V - 3.12 V)
Cooler Voltage = 1.91 V PASSED
(1.03 V - 2.39 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 528 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.103 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 X FAILED
Xq = 0.078 4.75% (0.00% - 4.00%)

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/08/2020

External Standard Test Values

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 39.4°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.13 V PASSED
(1.34 V - 3.12 V)
Cooler Voltage = 1.91 V PASSED
(1.03 V - 2.39 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 528 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.132 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
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD ✗

Xq = 0.078 4.63% (0.00% - 4.00%) FAILED

Diagnostic Check Failed