

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100411

Date: 09/09/20

Analyst: Derek Walton

1. Reason for instrument evaluation

Refurbished by factory for 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

Controller board modification present. Filter wheel assembly feels appropriate.

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 #: 100411

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/09/2020

External Standard Test Values

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 43.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.82 V PASSED
(1.09 V - 2.55 V)
Cooler Voltage = 1.82 V PASSED
(1.09 V - 2.55 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 512 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.0 in

PUMP INFO

Flow Rate = 5.290 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 = 0.074 5.35% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

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Serial #: 100411

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Date: 09/09/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.03: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 410 psi

BLANK TEST 0.000 15:31
INTERNAL STANDARD ✓ ERROR 15:31
Xq = 0.081 (4.02%)

Internal Standard Error

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 = 44.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS
Lamp Voltage = 1.81 V PASSED
(1.09 V - 2.55 V)
Cooler Voltage = 1.82 V PASSED
(1.09 V - 2.55 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 510 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.0 in

PUMP INFO
Flow Rate = 5.316 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
(0.002 V <= 0.010 V)

FILTER INFO
Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD ✓ PASSED
Xq = 0.075 3.68% (0.00% - 4.00%)