

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 08/08/2017
Effective: 08/10/2017

Version: DMEF2017 R1
Status: Active

Instrument # 100350

Date: 2/26/18

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Various status messages - interference + (blank) errors

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

upon start up it was clear this instrument has a noisy chopper wheel.

Failed VOC due to internal standard errors.

I removed the filter wheel assembly + reseated the chopper wheel. The noise appears to be reduced, still giving internal standard errors.

Needs calibration.

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 #: 100350

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/06/2018

External Standard Test Values

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.83 V PASSED
(1.09 V - 2.53 V)
Cooler Voltage = 1.90 V PASSED
(1.09 V - 2.55 V)
Bias Voltage = 80 V PASSED
(47 V - 111 V)
Chopper Freq = 526 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 4.529 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 = 0.105 4.36% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

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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 = 44.8°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.83 V PASSED
(1.09 V - 2.53 V)
Cooler Voltage = 1.90 V PASSED
(1.09 V - 2.55 V)
Bias Voltage = 80 V PASSED
(47 V - 111 V)
Chopper Freq = 526 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 4.506 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

Xg = 0.103 4.63% (0.00% - 4.00%) FAILED

Diagnostic Check Failed