

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100667

Analyst(s): Carlisle Plaister

Start Date: 11/22/2021

Reason for instrument evaluation

Internal Standard errors

Visual Inspection

- | | |
|---|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure | <input checked="" type="checkbox"/> Ensure modem cable present |
| <input checked="" type="checkbox"/> Double Check Valve secured to wall | <input checked="" type="checkbox"/> All tubing and connections secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag | |

Troubleshooting/Repair

Replaced O-ring. Cleaned internal standard with IPA.

- | | |
|--|---|
| <input checked="" type="checkbox"/> VOC (attached) | <input checked="" type="checkbox"/> Verify software version |
| <input type="checkbox"/> VOC Internal Standard value $\leq 3.00\%$ | <input type="checkbox"/> Non-Drinking Subject Test (attached) |
| <input type="checkbox"/> Return to Factory | <input checked="" type="checkbox"/> Ready for Calibration |
| <input type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |
| <input type="checkbox"/> Further Evaluation Needed | |

*NA,
internal
standard
errors.*

End Date: 12/3/2021

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100667

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/22/2021

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
(44.0°C - 52.0°C)

PASSED

Breath Tube = 38.9°C
(38.0°C - 50.0°C)

PASSED

SETTINGS

Lamp Voltage = 1.91 V
(1.15 V - 2.67 V)

PASSED

Cooler Voltage = 1.93 V
(1.16 V - 2.70 V)

PASSED

Bias Voltage = 80 V
(48 V - 112 V)

PASSED

Chopper Freq = 514 Hz
(475 Hz - 575 Hz)

PASSED

Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.410 L/M
(3.500 L/M - 6.500 L/M)

PASSED

DETECTOR INFO

PUMP ON
(0.004 V <= 0.010 V)

PASSED

PUMP OFF
(0.001 V <= 0.010 V)

PASSED

FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

INTERNAL STANDARD

FAILED

Xq = 0.118 5.02% (0.00% - 4.00%)

Diagnostic Check Failed

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100667

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/03/2021

External Standard Test Values

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 38.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.91 V PASSED
(1.15 V - 2.67 V)
Cooler Voltage = 1.93 V PASSED
(1.16 V - 2.70 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 516 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 4.600 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

Xq = 0.106 5.48% (0.00% - 4.00%) FAILED

Diagnostic Check Failed