

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100365
Start Date: 11/15/22
Date Received: 9/22/22

Analyst(s): C. O'Bryan

Reason for instrument evaluation

Internal standard errors. Internal standard needs to be cleaned

Visual Inspection

- Clean
- Replace missing screws
- Cermetex Box (modem) is secure
- Ensure modem cable present
- Double Check Valve secured to wall
- All tubing and connections secure
- O-ring inspection and ensure 2 replacement O-rings in bag

As Found Conditions:

Barometric Pressure (inHg): _____ Temperature (C): _____ Relative Humidity (%) _____

Linearity Test (attached)

0.020g/210L Mnf: _____ Lot: _____ Exp: _____
0.080g/210L Mnf: _____ Lot: _____ Exp: _____
0.300g/210L Mnf: _____ Lot: _____ Exp: _____

Notes

- VOC (attached)
- Verify software version
- VOC Internal Standard value $\leq 3.00\%$
- Non-Drinking Subject Test (attached)

Condition of item: Good Needs Repair

- Ready for Adjustment
- Ready for Calibration

End Date: 11/15/22

Internal standard too high on VOCs. Unable to perform as found. Adjustment + Repair suggested.

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/15/2022

External Standard Test Values

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C
(44.0°C - 52.0°C)

PASSED

Breath Tube = 44.6°C
(38.0°C - 50.0°C)

PASSED

SETTINGS

Lamp Voltage = 1.83 V
(1.10 V - 2.56 V)

PASSED

Cooler Voltage = 1.89 V
(1.10 V - 2.58 V)

PASSED

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

PASSED

Chopper Freq = 516 Hz
(475 Hz - 575 Hz)

PASSED

Barometer = 30.4 in

PUMP INFO

Flow Rate = 4.830 L/M
(3.500 L/M - 6.500 L/M)

PASSED

DETECTOR INFO

PUMP ON
(0.007 V <= 0.010 V)

PASSED

PUMP OFF
(0.008 V <= 0.010 V)

PASSED

FILTER INFO

Filter 1 PASSED

Filter 2 PASSED

Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.121 (19.62% - 4.00%)

FAILED

Diagnostic Check Failed

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/15/2022

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
(44.0°C - 52.0°C)

PASSED

Breath Tube = 44.2°C
(38.0°C - 50.0°C)

PASSED

SETTINGS

Lamp Voltage = 1.83 V
(1.10 V - 2.56 V)

PASSED

Cooler Voltage = 1.89 V
(1.10 V - 2.58 V)

PASSED

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

PASSED

Chopper Freq = 518 Hz
(475 Hz - 575 Hz)

PASSED

Barometer = 30.4 in

PUMP INFO

Flow Rate = 4.836 L/M
(3.500 L/M - 6.500 L/M)

PASSED

DETECTOR INFO

PUMP ON
(0.009 V <= 0.010 V)

PASSED

PUMP OFF
(0.008 V <= 0.010 V)

PASSED

FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

INTERNAL STANDARD

Xq = 0.120 19.10% (0.00% - 4.00%)

FAILED

Diagnostic Check Failed