

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100405
Start Date: 10/17/23
Date Received: 10/17/23

Analyst(s): C. O Bryant

Reason for instrument evaluation

Internal Standard Error

Visual Inspection

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

As Found Conditions:

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

COB 10/17/23

Linearity Test (attached)

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

Notes

Diagnostic failed. Internal Standard error.
Unable to perform as-found. Recommend Adjustment.

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

Unable to perform.

Condition of item: Good Needs Repair

COB 2023.11.20

- Ready for Adjustment
- Ready for Calibration

End Date: 10/17/23

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100405

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/17/2023

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

PASSED

Breath Tube = 47.4°C

PASSED

PUMP INFO

Flow Rate = 4.972 L/M

PASSED

DETECTOR INFO

PUMP ON

PASSED

PUMP OFF

PASSED

FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

INTERNAL STANDARD

FAILED

Diagnostic Check Failed

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100405

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/17/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.11: 0.078
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 679 psi

BLANK TEST 0.000 16:33
INTERNAL STANDARD ERROR 16:33
 Xq = 0.092 (4.14%)

Internal Standard Error

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 = 46.7°C PASSED
 (38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.69 V PASSED
 (1.03 V - 2.41 V)
Cooler Voltage = 1.74 V PASSED
 (1.03 V - 2.39 V)
Bias Voltage = 81 V PASSED
 (49 V - 113 V)
Chopper Freq = 512 Hz PASSED
 (475 Hz - 575 Hz)
Barometer = 29.1 in

PUMP INFO

Flow Rate = 5.006 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 = 0.092 3.65% (0.00% - 4.00%)