

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100675

Analyst/Technician(s): Derek Walton

Start Date: 04/01/25

Date Instrument Received: 03/28/25

Reason for instrument evaluation

Internal standard errors and pump on/off issues during Diagnostic

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 | | |
| ☒ Attach VOC | ☒ VOC Internal Standard $\leq 3.00\%$ | ☒ Verify software version |

Condition of item: ☒ No apparent damage ☐ Damaged

NOTE: As Found Linearity is required if the instrument is not damaged and the internal standard value is not more than 4.00%

As Found Conditions (if performed):

Barometric Pressure (inHg): 29.74 Temperature (C): 22.3 Relative Humidity (%) 14

Linearity Test Levels (g/210L): 0.020, 0.080, 0.300

Notes: "Simulator timed out" on first 0.020. Detector fluctuations visible on the live graph. "Simulator timed out a 2nd time on a Supervisor test (0.020 g/210L). Could not complete linearity.

☐ Attach Non-Drinking Subject Test Not performed 04/01/25

Conclusion:

- | | |
|--|--|
| ☐ Ready for Adjustment | ☒ Needs Repair |
| ☐ Ready for Calibration | |

Lab Work End Date: 04/01/25

Page 1 of 1

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100675

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/01/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 485 psi

BLANK TEST	0.000	09:34
INTERNAL STANDARD	✓ VERIFIED	09:34
Xq = 0.096 (0.81%)		
EXTERNAL STANDARD	0.079	09:34
X[1] = 0.0787 (-0.0018) (0.0016)		
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.079	09:36
X[1] = 0.0794 (-0.0044) (-0.0006)		
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.079	09:38
X[1] = 0.0785 (-0.0046) (0.0003)		
BLANK TEST	0.000	09:39
EXTERNAL STANDARD	0.078	09:39
X[1] = 0.0778 (-0.0038) (0.0008)		
BLANK TEST	0.000	09:40
EXTERNAL STANDARD	0.081	09:40
X[1] = 0.0808 (0.0003) (-0.0005)		
BLANK TEST	0.000	09:41

Average = 0.0792
Std Dev = 0.0011

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.2°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 48.1°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.99 V (1.22 V - 2.86 V)	PASSED
Cooler Voltage = 1.81 V (1.12 V - 2.60 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 527 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 5.130 L/M (3.500 L/M - 6.500 L/M)	PASSED
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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	✓	PASSED
Xq = 0.098 0.72% (0.00% - 4.00%)		

DIAGNOSTIC RECORD

 Alaska Department of Public Safety
 DATAMASTER dmt: 100675

Date: 04/01/2025
 Time: 09:43:53

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.99 V	PASSED
(1.22 V - 2.86 V)	
Cooler Voltage = 1.81 V	PASSED
(1.12 V - 2.60 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 536 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 5.007 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.007 V <= 0.010 V)	
PUMP OFF	PASSED
(0.010 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
Xq = 0.096 1.26% (0.00% - 4.00%)	

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 04/01/2025
Time: 09:47:50

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.99 V PASSED
(1.22 V - 2.86 V)
Cooler Voltage = 1.81 V PASSED
(1.12 V - 2.60 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 538 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.953 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.009 V <= 0.010 V)
PUMP OFF PASSED
(0.008 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

Xq = 0.098 0.63% (0.00% - 4.00%)

SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 04/01/2025
Time: 09:58:08

SUPERVISOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.71: 0.020
TANK PRESSURE: 286 psi

BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	09:59
EXTERNAL STANDARD	0.021	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.021	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.020	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.022	10:05
BLANK TEST	0.000	10:05

Simulator Timed Out

Tank lot AG408002, Exp 03/20/2026
DJW 04/11/2025

