

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100679

Analyst/Technician(s): Megan Crouse

Start Date: 5/16/24

Date Instrument Received: 5/16/24

Supervised casework with
Derek Walker DM
05/16/24

Reason for instrument evaluation
Preventative Maintenance

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 | | |
| <input checked="" type="checkbox"/> Attach VOC | <input checked="" type="checkbox"/> VOC Internal Standard $\leq 3.00\%$ | <input checked="" type="checkbox"/> 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): 29.75 Temperature (C): 21.6 Relative Humidity (%): 22

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

Notes: Replaced tape on double check valve and secured it to the wall.
Replaced O-ring.

Linearity could not be performed, Detector overflow and filter wheel errors.

Attach Non-Drinking Subject Test

Conclusion:

- | | |
|--|--|
| <input type="checkbox"/> Ready for Adjustment | <input checked="" type="checkbox"/> Needs Repair |
| <input type="checkbox"/> Ready for Calibration | |

Lab Work End Date: 5/16/24

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100679

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/16/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1194 psi

BLANK TEST	0.000	15:09
INTERNAL STANDARD	VERIFIED	15:09
Xq = 0.101 (1.49%)		
EXTERNAL STANDARD	0.078	15:09
X[1] = 0.0778 (-0.0024) (-0.0018)		
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.078	15:10
X[1] = 0.0778 (-0.0028) (-0.0009)		
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.078	15:11
X[1] = 0.0778 (-0.0029) (-0.0013)		
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.078	15:13
X[1] = 0.0777 (-0.0022) (-0.0005)		
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.078	15:14
X[1] = 0.0784 (-0.0024) (-0.0009)		
BLANK TEST	0.000	15:15

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 42.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.93 V	PASSED
(1.00 V - 2.34 V)	
Cooler Voltage = 1.71 V	PASSED
(1.00 V - 2.32 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 505 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 3.901 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
(0.001 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
Xq = 0.101 0.79% (0.00% - 4.00%)	