

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100676

Analyst/Technician(s): Megan Corlock

Start Date: 12/9/24

Date Instrument Received: 12/9/24

Reason for instrument evaluation

Returned for a damaged breath hose. The white piece of plastic is detached from the rest of the hose.

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 ≤ 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): 29.57 Temperature (C): 21.6 Relative Humidity (%): 21

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

Notes: Resecured the double check valve to the wall. Replaced O-ring.
Linearity was performed since it is not influenced by the broken piece, however a non-drinking subject test could not be performed.

Attach Non-Drinking Subject Test Not Performed

Conclusion:

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

Lab Work End Date: 12/10/24

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100676

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/09/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.54: 0.079
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 274 psi

BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	09:59
Xq = 0.089 (1.35%)		
EXTERNAL STANDARD	0.079	09:59
X[1] = 0.0793 (-0.0008) (-0.0021)		
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.079	10:01
X[1] = 0.0795 (-0.0007) (-0.0011)		
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.079	10:02
X[1] = 0.0789 (-0.0012) (-0.0009)		
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.080	10:03
X[1] = 0.0798 (-0.0005) (-0.0014)		
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.080	10:04
X[1] = 0.0800 (0.0000) (-0.0008)		
BLANK TEST	0.000	10:05

Average = 0.0794
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6 °C (44.0 °C - 52.0 °C)	PASSED
Breath Tube = 48.1 °C (38.0 °C - 50.0 °C)	PASSED

SETTINGS

Lamp Voltage = 1.62 V (0.98 V - 2.30 V)	PASSED
Cooler Voltage = 1.77 V (1.02 V - 2.38 V)	PASSED
Bias Voltage = 78 V (47 V - 109 V)	PASSED
Chopper Freq = 523 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.127 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

PUMP ON (0.002 V <= 0.010 V)	PASSED
PUMP OFF (0.002 V <= 0.010 V)	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.090 0.87% (0.00% - 4.00%)	PASSED
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LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100676

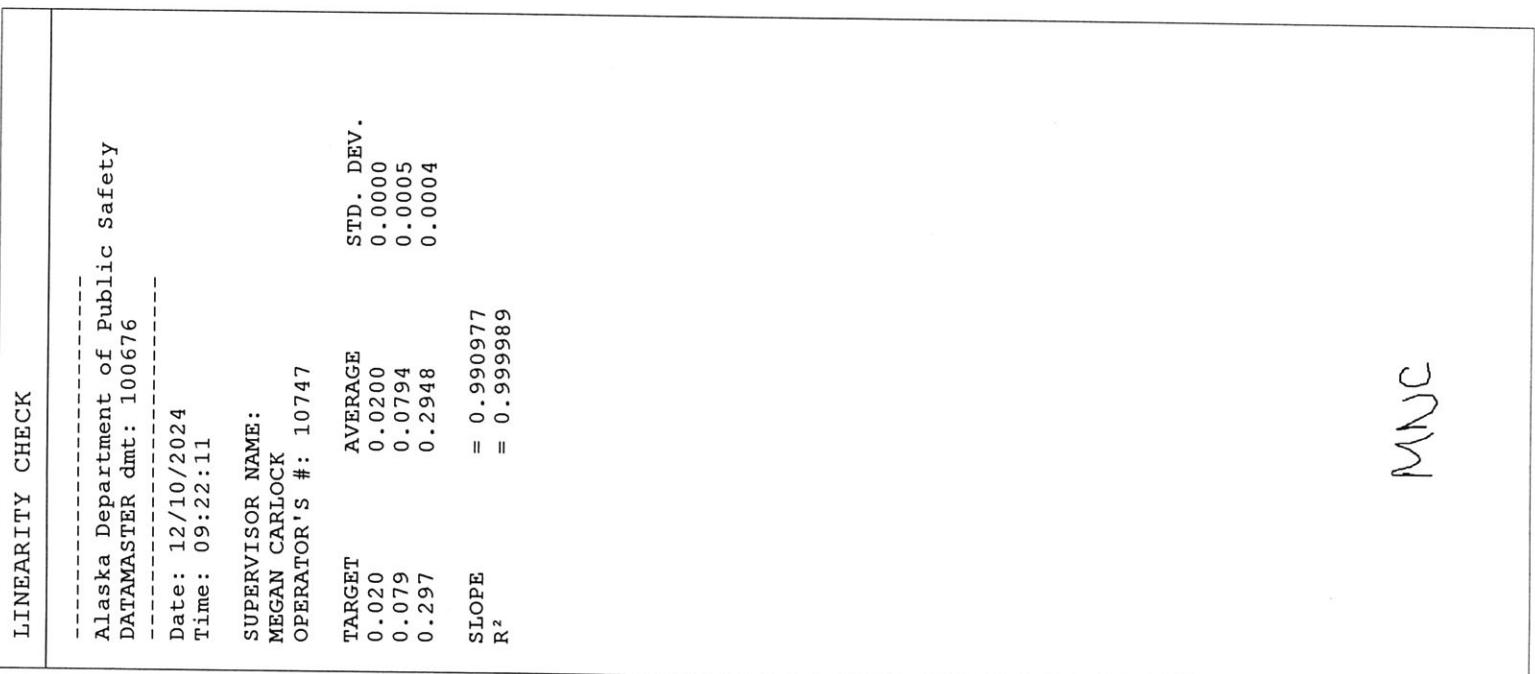
Date: 12/10/2024
Time: 09:22:11

SUPERVISOR NAME:
MEGAN CARLOCK
OPERATOR'S #: 10747

TARGET AVERAGE STD. DEV.

0.020	0.0200	0.0000
0.079	0.0794	0.0005
0.297	0.2948	0.0004

SLOPE = 0.990977
 R^2 = 0.999989



MJC

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100676

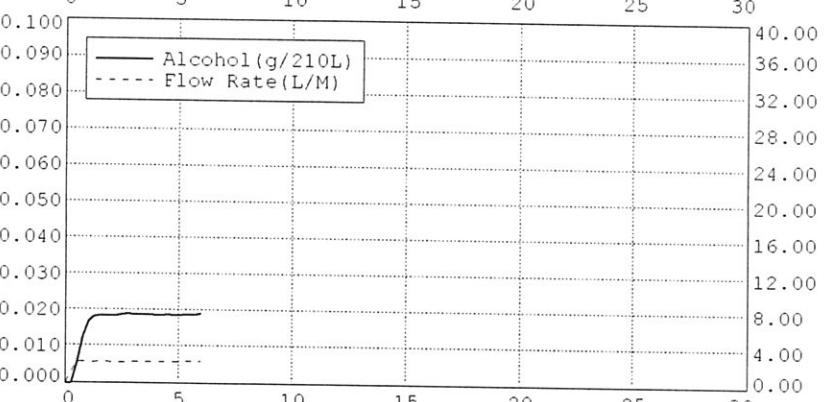
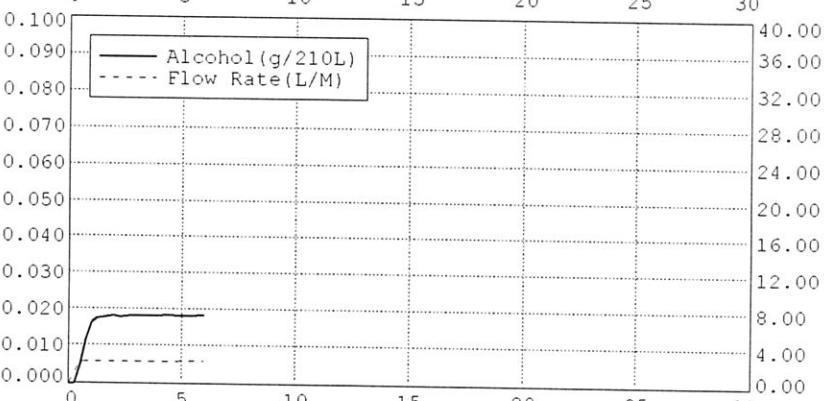
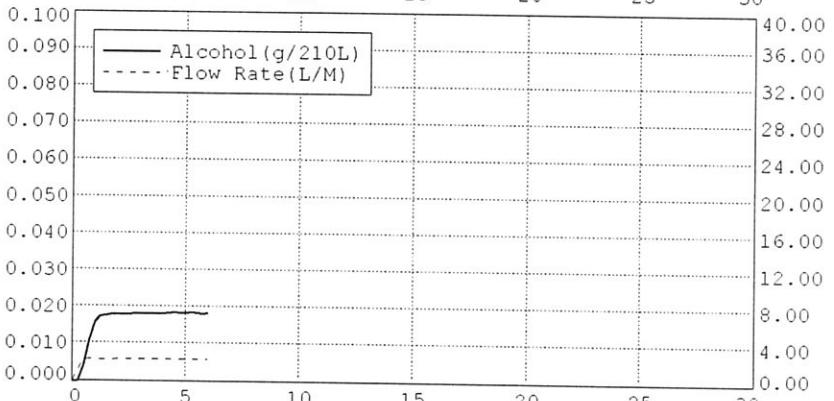
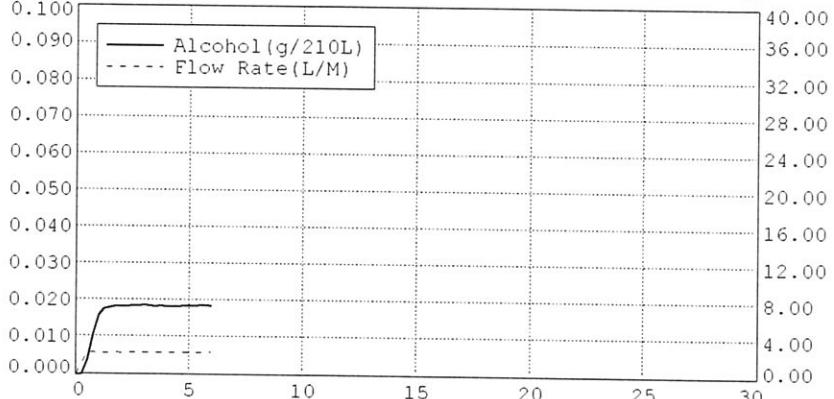
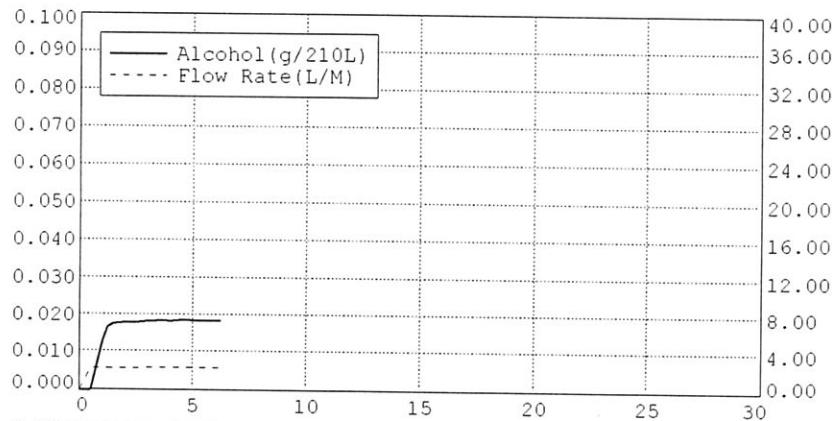
Date: 12/10/2024
Time: 09:22:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.67: 0.020
LOT #: AG408002
EXPIRATION: 03/20/2026
TANK PRESSURE: 291 psi

BLANK TEST	0.000	09:24
INTERNAL STANDARD	VERIFIED	09:24
EXTERNAL STANDARD	0.020	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.020	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.020	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.020	09:28
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.020	09:29
BLANK TEST	0.000	09:30

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100676

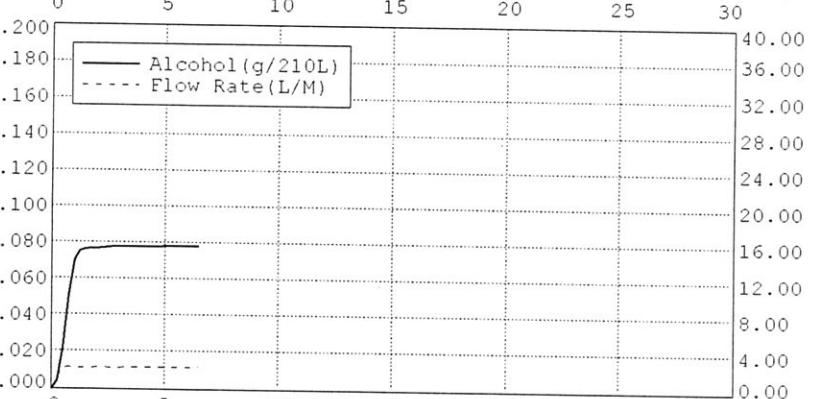
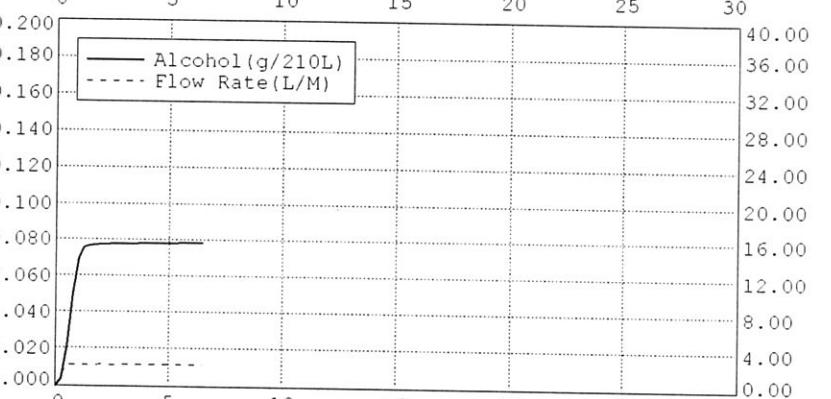
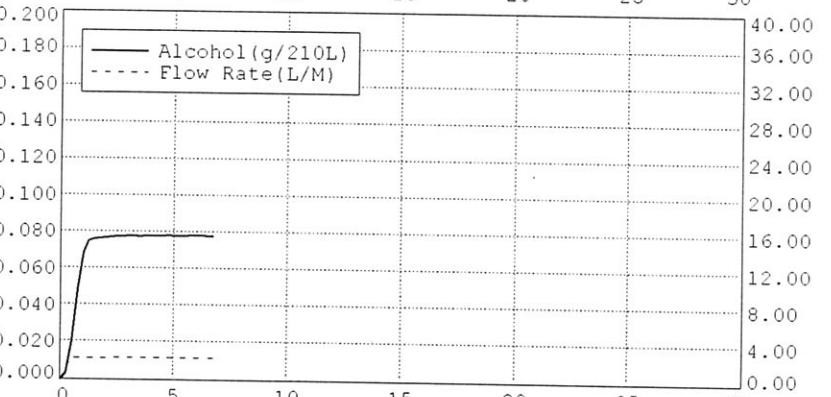
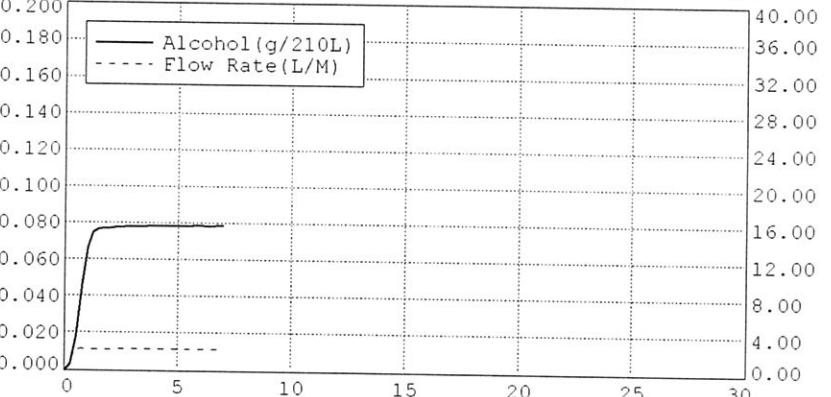
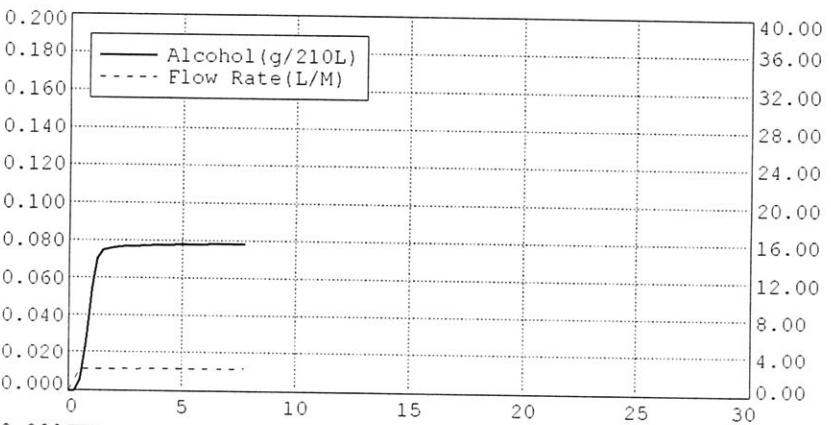
Date: 12/10/2024
Time: 09:31:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.67: 0.079
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 256 psi

BLANK TEST	0.000	09:32
INTERNAL STANDARD	VERIFIED	09:33
EXTERNAL STANDARD	0.080	09:33
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.080	09:34
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.079	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.079	09:36
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.079	09:37
BLANK TEST	0.000	09:38

Average = 0.0794
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3Alaska Department of Public Safety
DATAMASTER dmt: 100676Date: 12/10/2024
Time: 09:41:32**EXTERNAL STANDARD INFORMATION**NOMINAL: 0.300
TARGET AT 29.65: 0.297
LOT #: AG427706
EXPIRATION: 10/03/2026
TANK PRESSURE: 477 psi

BLANK TEST	0.000	09:42
INTERNAL STANDARD	VERIFIED	09:43
EXTERNAL STANDARD	0.295	09:43
BLANK TEST	0.000	09:44
EXTERNAL STANDARD	0.295	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.295	09:45
BLANK TEST	0.000	09:46
EXTERNAL STANDARD	0.295	09:46
BLANK TEST	0.000	09:47
EXTERNAL STANDARD	0.294	09:47
BLANK TEST	0.000	09:48

Average = 0.2948
Std Dev = 0.0004