

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100411
Start Date: 7/26/23
Date Received: 7/29/21

Analyst(s): C. O'Bryant

Reason for instrument evaluation

Instrument not registering flow.

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

Instrument arrived at lab 2 years prior to evaluation. No as-found performed. Unable to demonstrate flow issues.

- 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: 7/26/23

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100411

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/26/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.90: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 635 psi

BLANK TEST	0.000	11:00
INTERNAL STANDARD	VERIFIED	11:00
Xq = 0.080	11.89%	
EXTERNAL STANDARD	0.080	11:00
X[1] = 0.0799	(-0.0025)	(-0.0008)
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.082	11:01
X[1] = 0.0816	(-0.0009)	(-0.0009)
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.079	11:02
X[1] = 0.0790	(-0.0027)	(-0.0009)
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.080	11:03
X[1] = 0.0802	(-0.0020)	(0.0004)
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.080	11:04
X[1] = 0.0796	(-0.0021)	(0.0001)
BLANK TEST	0.000	11:05

Average = 0.0802
Std Dev = 0.0011

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.5°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 41.9°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.76 V	PASSED
(1.06 V - 2.48 V)	
Cooler Voltage = 1.77 V	PASSED
(1.06 V - 2.48 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 518 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

PUMP INFO

Flow Rate = 4.036 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.003 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 = 0.077	1.00%	(0.00% - 4.00%)	PASSED
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SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100411

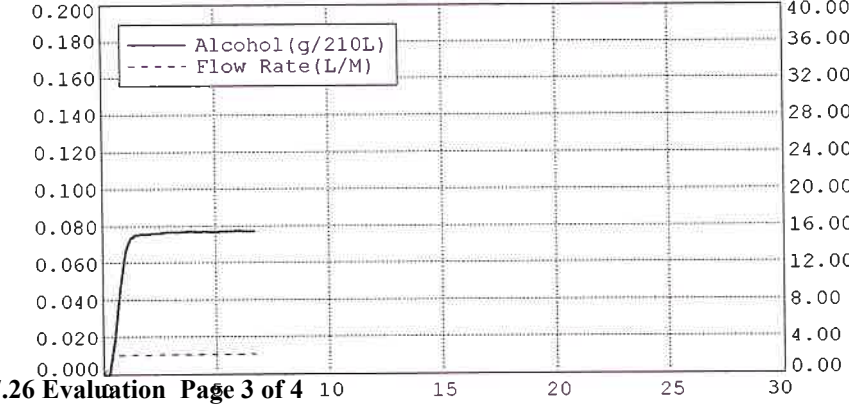
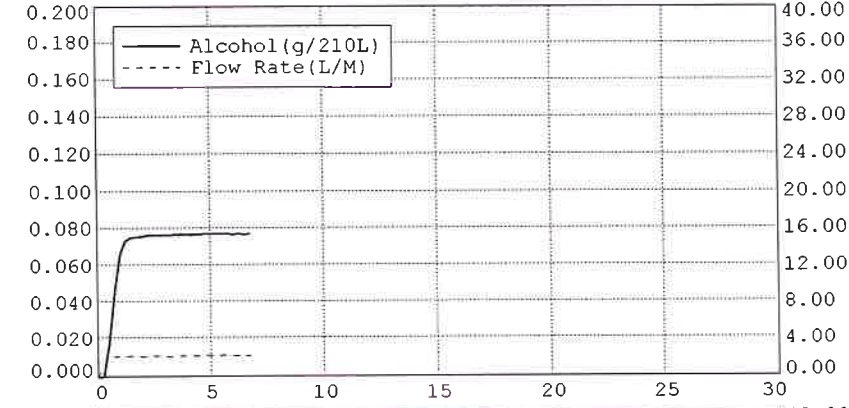
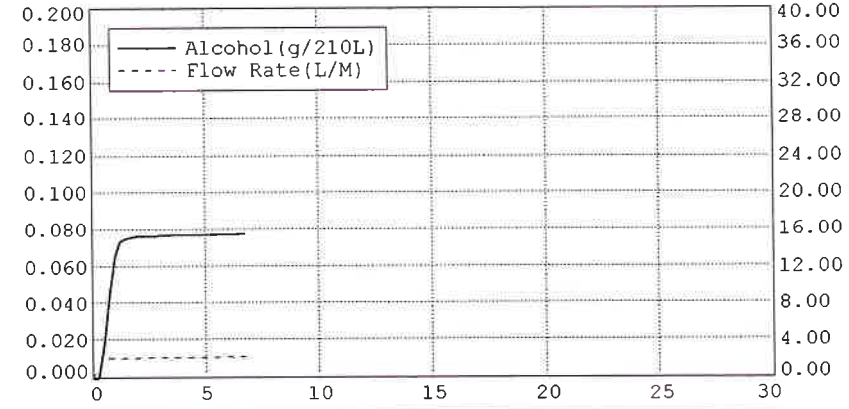
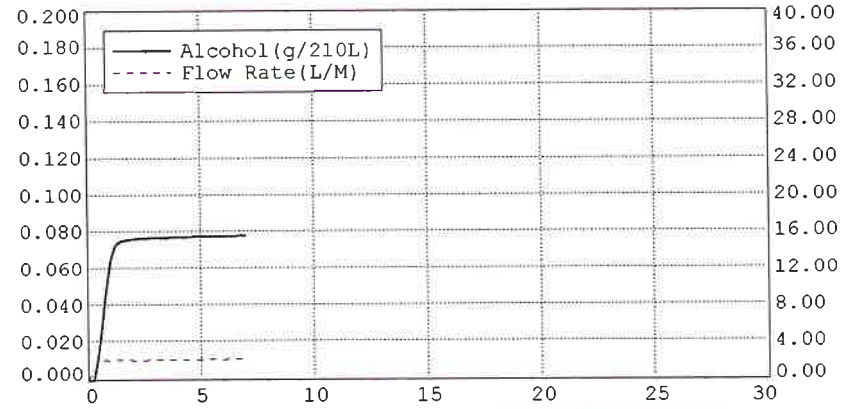
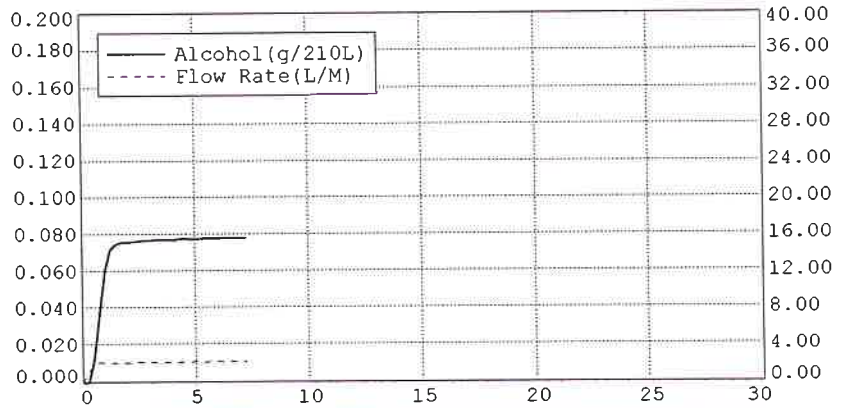
Date: 07/26/2023
Time: 11:06:36

SUPERVISOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.91: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 616 psi

BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:07
EXTERNAL STANDARD	0.080	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.080	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.079	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.079	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.079	11:12
BLANK TEST	0.000	11:13

Average = 0.0794
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100411

Date: 07/26/2023

Time: 11:23:06

SUBJECT NAME:

TEST TEST

LICENSE #: NON-DRINKING

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 23-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.90: 0.080

LOT #: 09523080A1

EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	11:24
BLANK TEST	0.000	11:25
INTERNAL STANDARD	VERIFIED	11:25
EXTERNAL STANDARD	0.079	11:25
BLANK TEST	0.000	11:26
SUBJECT SAMPLE (Vol=2.27L)	0.000	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.080	11:27
BLANK TEST	0.000	11:28

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