

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100255
Start Date: 11/6/23
Date Received: 10/23/23

Analyst(s): Carlie Haister

Reason for instrument evaluation

Returned from intox (filter wheel issues)

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): 29.13 Temperature (C): 22.6 Relative Humidity (%): 23

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-217902</u>	Exp: <u>6/28/24</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-310901</u>	Exp: <u>4/19/25</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-217903</u>	Exp: <u>6/28/24</u>

Notes

Cleared memory before eval. Reset options before eval. Screw sheered off when attempting to remove. OK 11/6/23

- 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: 11/6/23

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER dmt: 100255

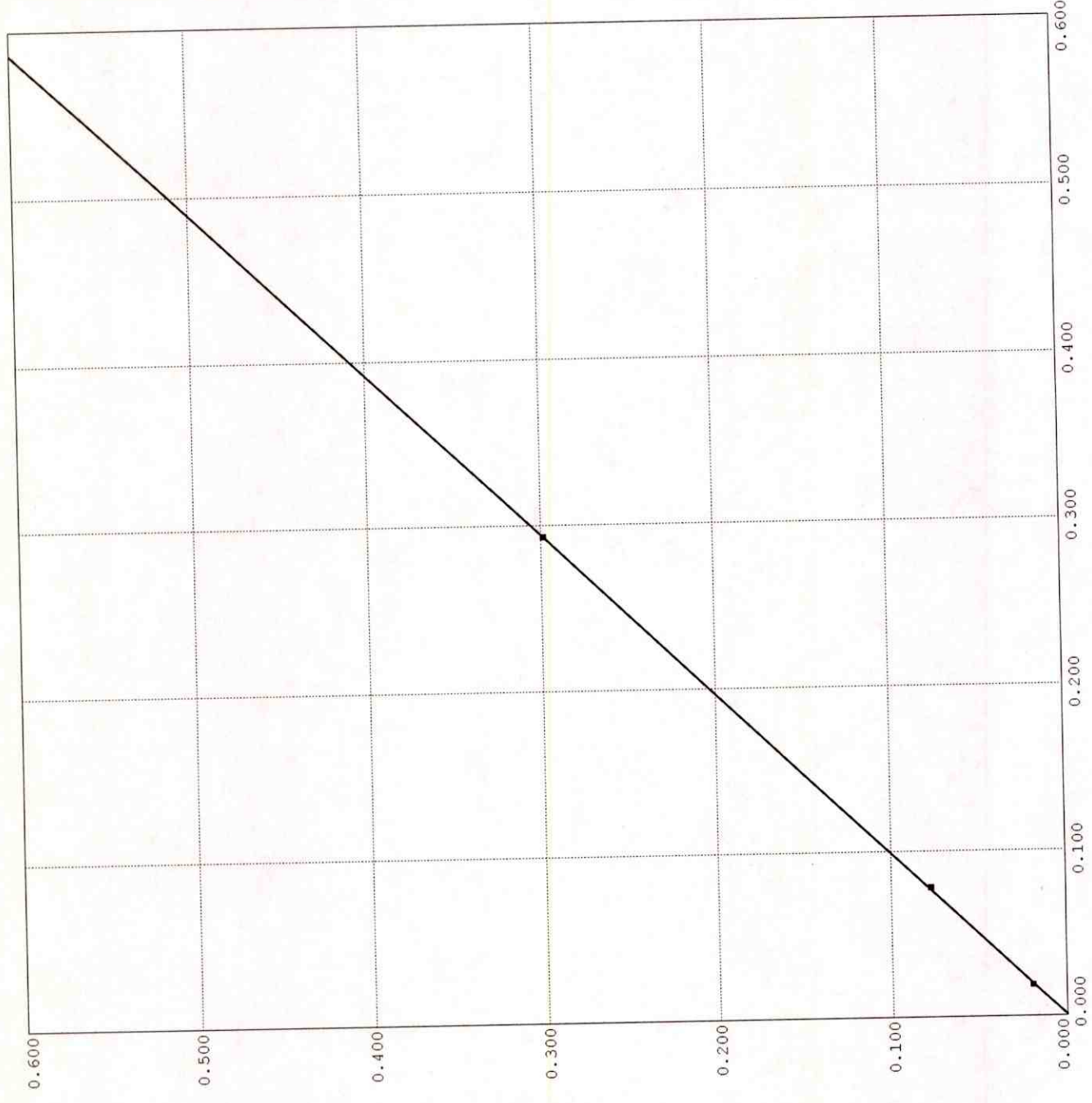
Date: 11/06/2023
 Time: 11:54:29

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.078	0.0782	0.0004
0.292	0.2992	0.0004

SLOPE = 1.025390
 R² = 0.999936

CVB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100255

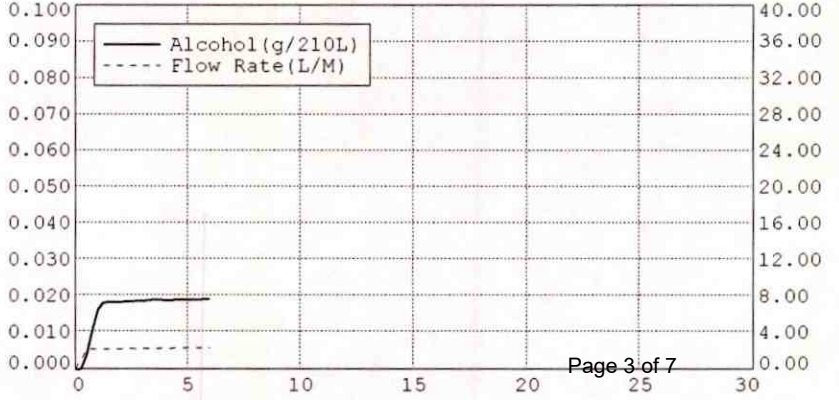
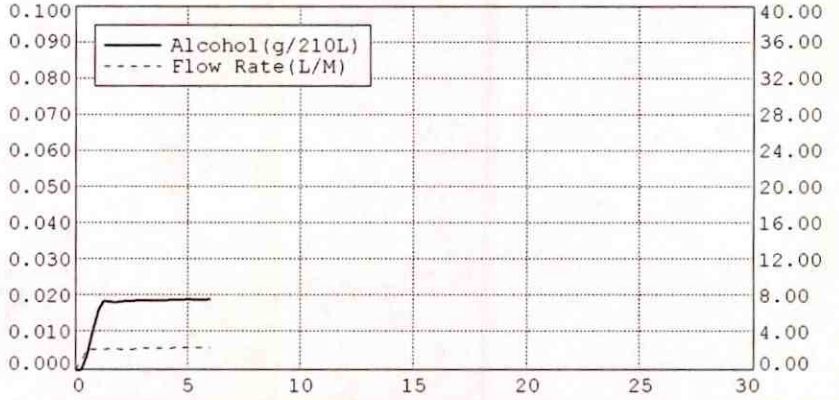
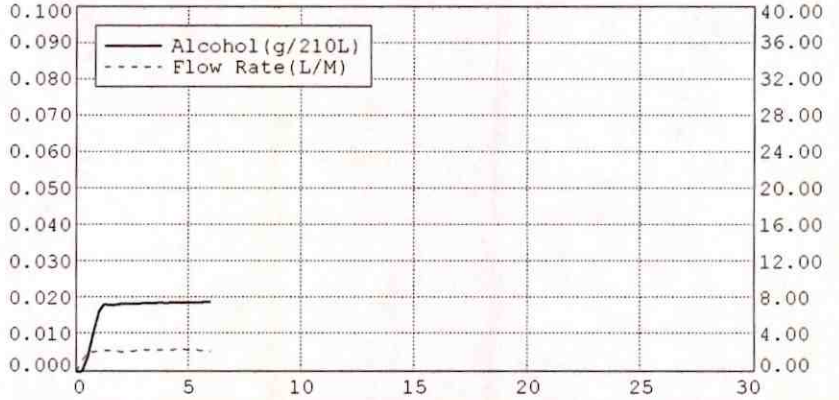
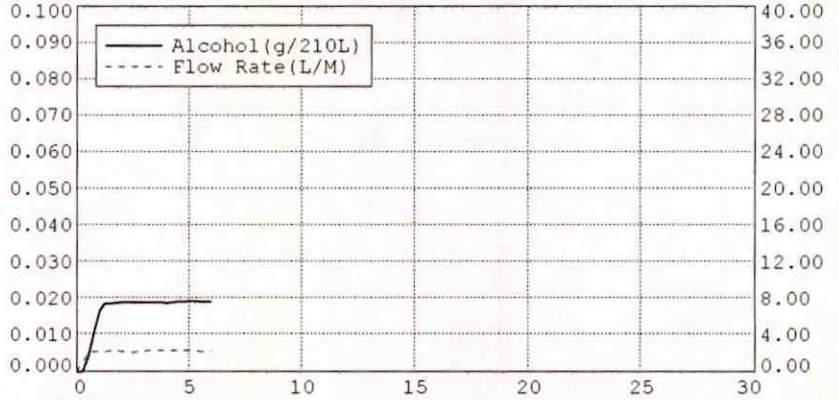
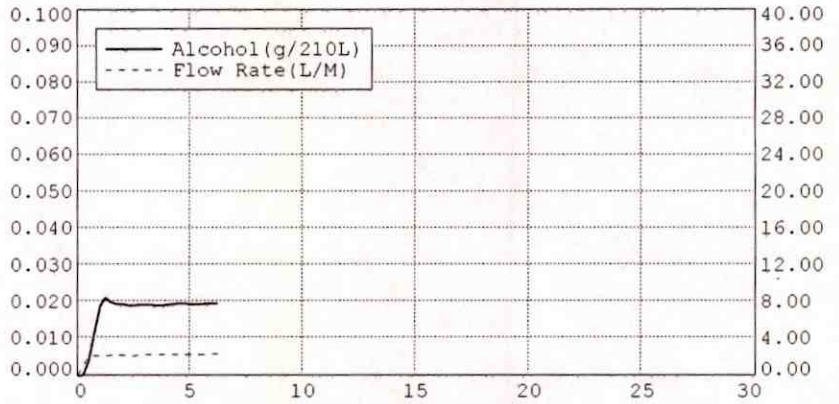
Date: 11/06/2023
Time: 11:54:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.08: 0.019
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 782 psi

BLANK TEST	0.000	11:55
INTERNAL STANDARD	VERIFIED	11:55
EXTERNAL STANDARD	0.020	11:56
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.020	11:57
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.020	11:58
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.020	11:59
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.020	12:00
BLANK TEST	0.000	12:00

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100255

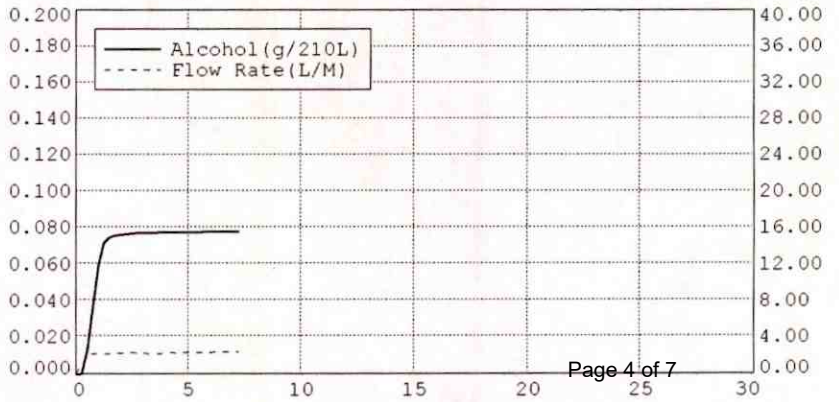
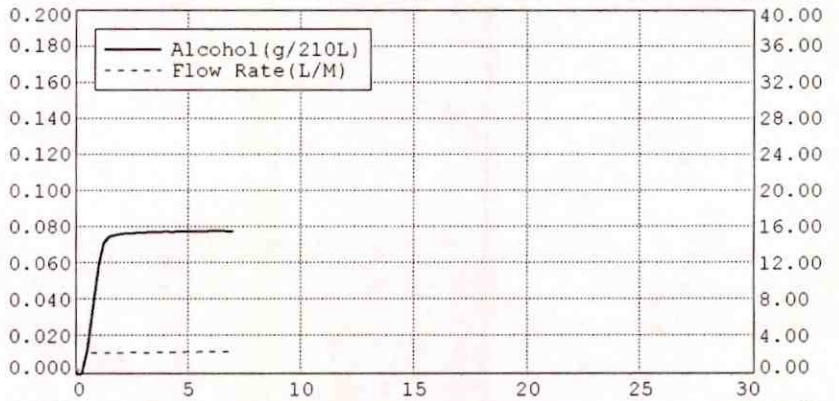
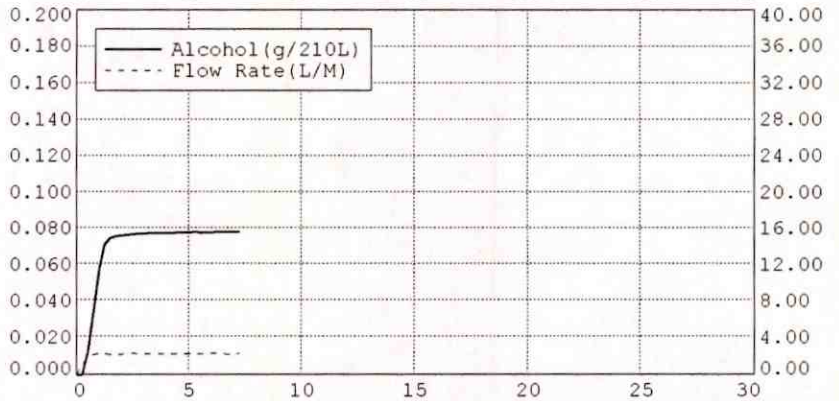
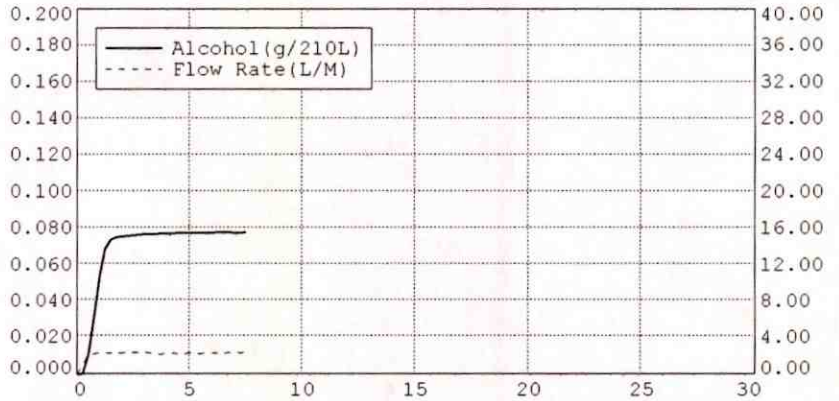
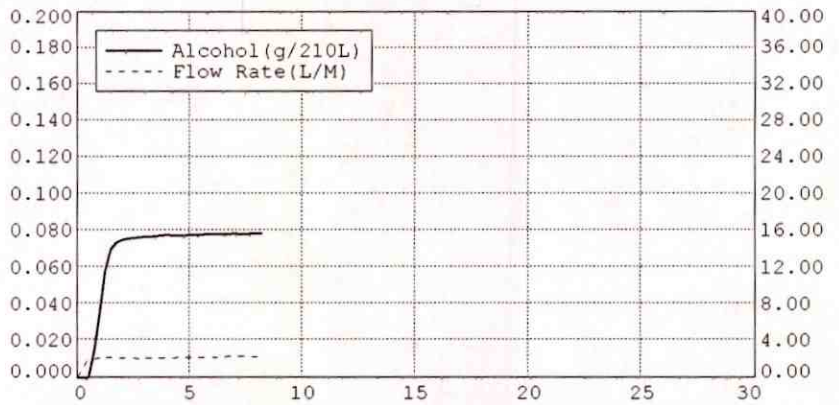
Date: 11/06/2023
Time: 12:17:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 697 psi

BLANK TEST	0.000	12:18
INTERNAL STANDARD	VERIFIED	12:19
EXTERNAL STANDARD	0.079	12:19
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.078	12:20
BLANK TEST	0.000	12:21
EXTERNAL STANDARD	0.078	12:21
BLANK TEST	0.000	12:22
EXTERNAL STANDARD	0.078	12:22
BLANK TEST	0.000	12:23
EXTERNAL STANDARD	0.078	12:23
BLANK TEST	0.000	12:24

Average = 0.0782
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100255

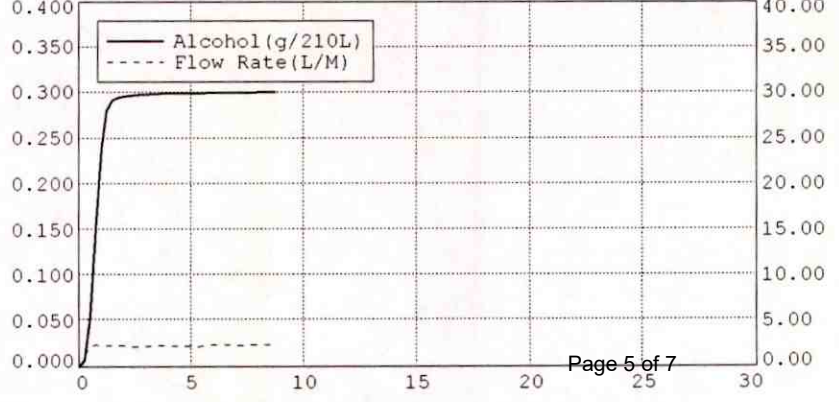
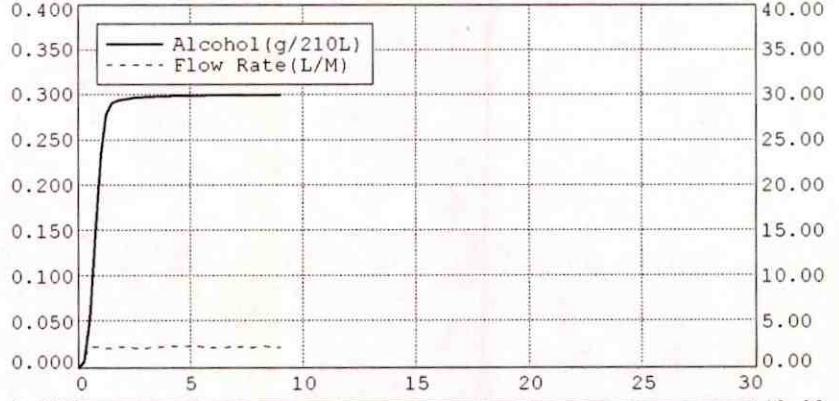
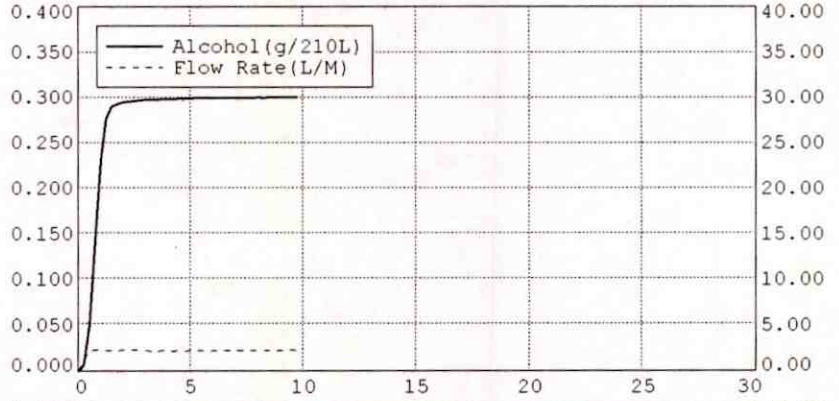
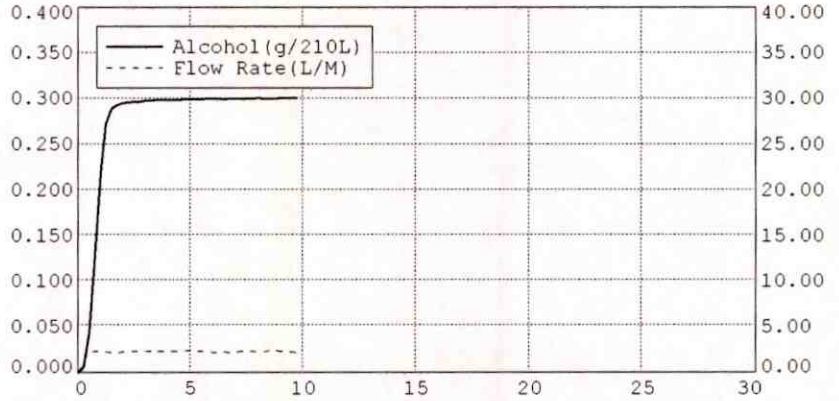
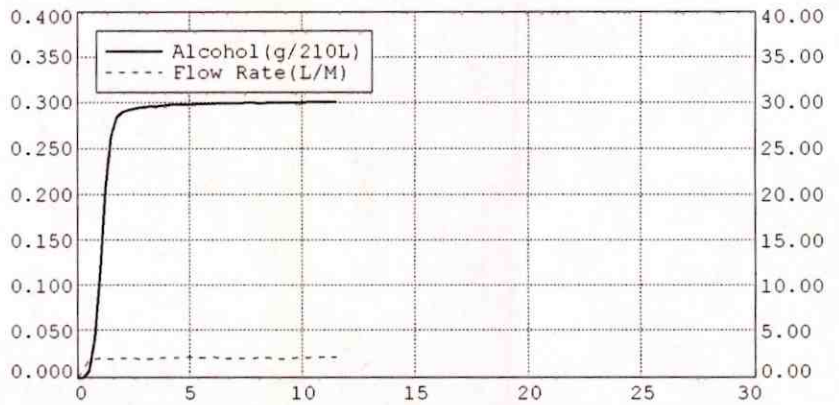
Date: 11/06/2023
Time: 12:27:44

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.09: 0.292
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 163 psi

BLANK TEST	0.000	12:29
INTERNAL STANDARD	VERIFIED	12:29
EXTERNAL STANDARD	0.300	12:29
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.299	12:30
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.299	12:31
BLANK TEST	0.000	12:32
EXTERNAL STANDARD	0.299	12:32
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.299	12:33
BLANK TEST	0.000	12:34

Average = 0.2992
Std Dev = 0.0004



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100255

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/06/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.08: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 713 psi

BLANK TEST	0.000	11:18
INTERNAL STANDARD	VERIFIED	11:18
Xq = 0.076 (1.91%)		
EXTERNAL STANDARD	0.079	11:19
X[1] = 0.0786 (0.0012) (-0.0012)		
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.078	11:20
X[1] = 0.0779 (0.0005) (-0.0007)		
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.078	11:21
X[1] = 0.0778 (-0.0004) (-0.0015)		
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.078	11:22
X[1] = 0.0780 (-0.0001) (-0.0008)		
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.078	11:23
X[1] = 0.0778 (-0.0009) (-0.0015)		
BLANK TEST	0.000	11:24

Average = 0.0782
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 2.05
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.63 V	PASSED
(0.98 V - 2.30 V)	
Cooler Voltage = 1.59 V	PASSED
(0.95 V - 2.23 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

PUMP INFO

Flow Rate = 4.437 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

Xq = 0.076	1.80%	(0.00% - 4.00%)	PASSED
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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100255

Date: 11/06/2023
Time: 12:46:16

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
NON-DRINKING SUBJECT TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	12:47
BLANK TEST	0.000	12:47
INTERNAL STANDARD	VERIFIED	12:47
EXTERNAL STANDARD	0.079	12:47
BLANK TEST	0.000	12:48
SUBJECT SAMPLE (Vol=1.64L)	0.000	12:49
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.079	12:50
BLANK TEST	0.000	12:50

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