

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100410

Analyst(s): Tatiana Malnowke

Start Date: 08-17-2023

Date Received: 08-14-2023

Reason for instrument evaluation

Preventative Maintenance

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): 29.84 Temperature (C): 22.6 Relative Humidity (%) 41%

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>AG217A02</u>	Exp: <u>06-28-2024</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>AG310A01</u>	Exp: <u>04-19-2025</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG217A03</u>	Exp: <u>06-28-2024</u>

Notes

- 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: 08-17-2023

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

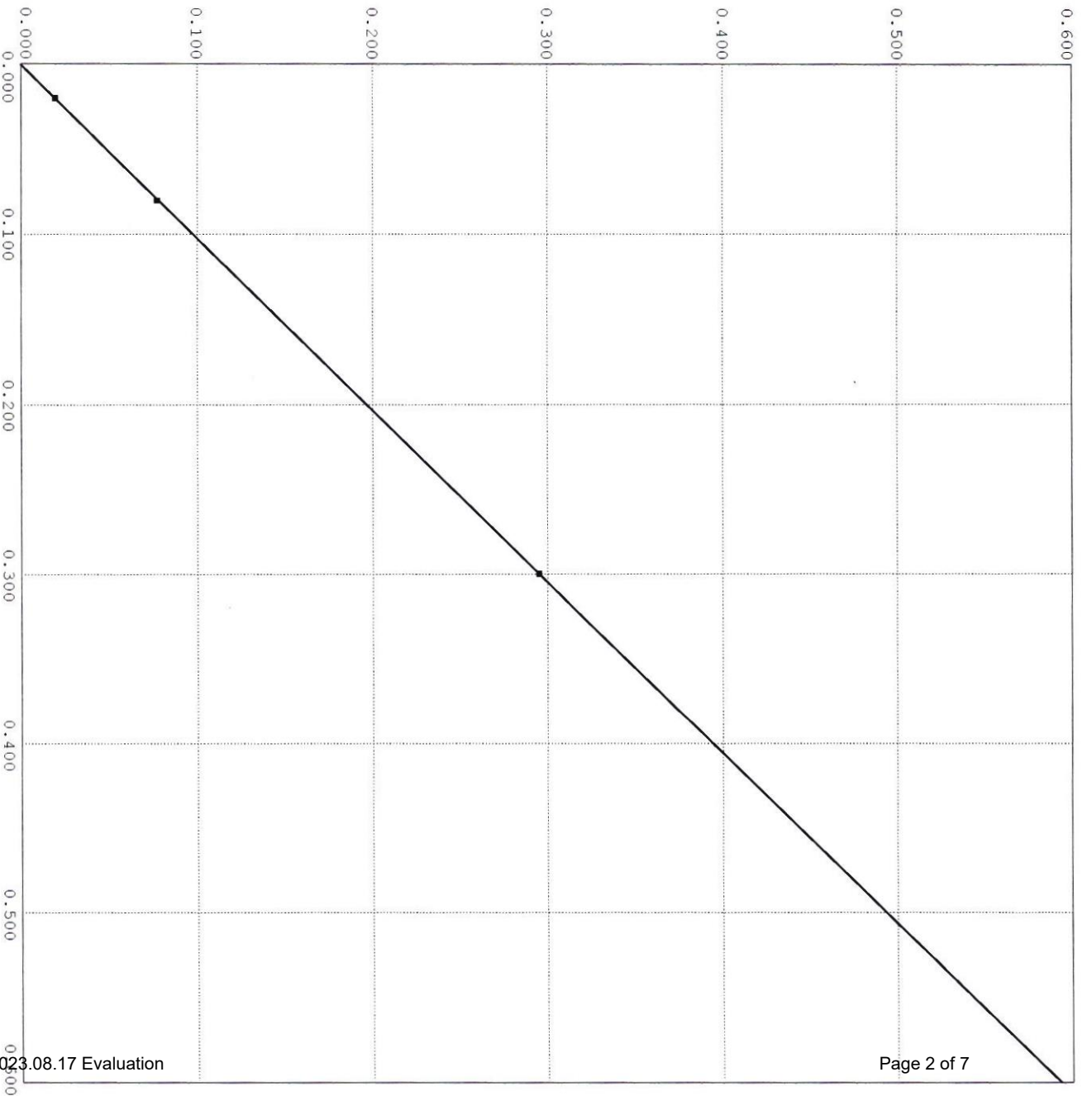
Alaska Department of Public Safety
 DATAMASTER dmt: 100410

Date: 08/17/2023
 Time: 14:32:52

SUPERVISOR NAME:
 TATIYANA MALINOSKE
 OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.080	0.0782	0.0004
0.299	0.2958	0.0008

SLOPE = 0.989897
 R² = 0.999982



TML

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100410

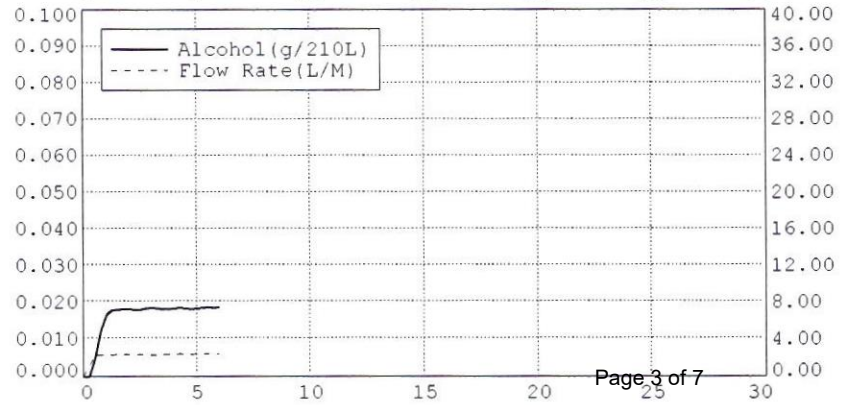
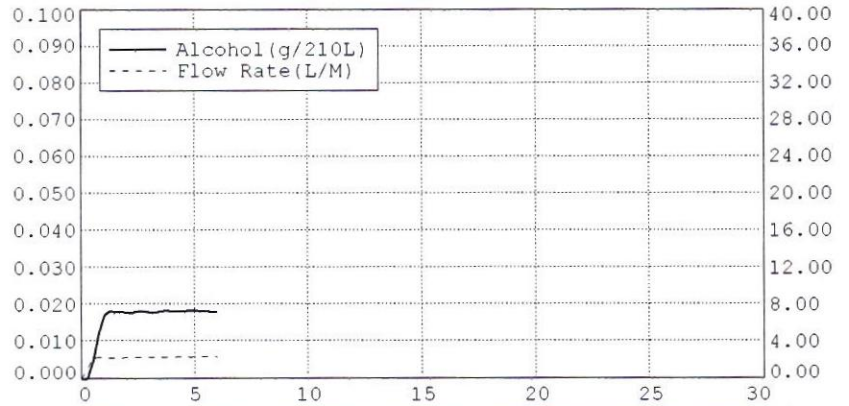
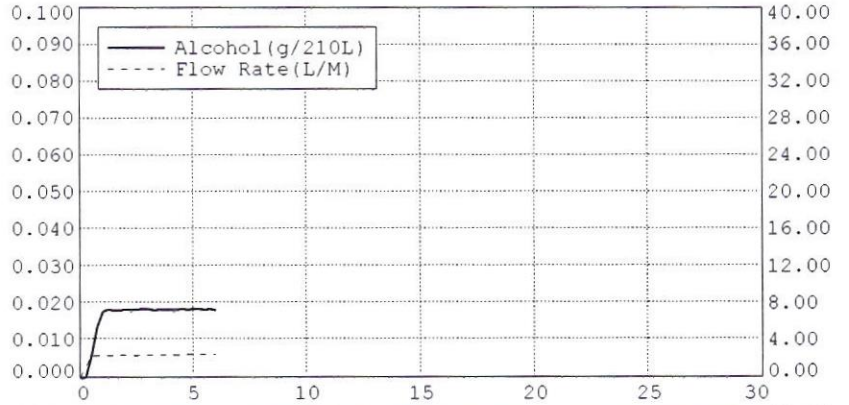
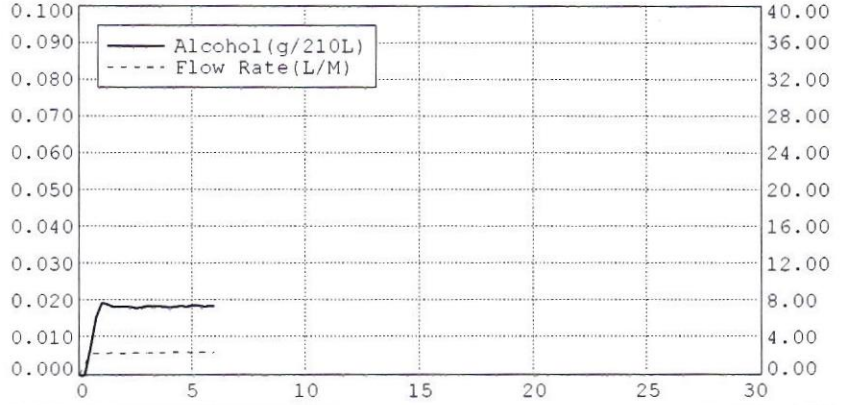
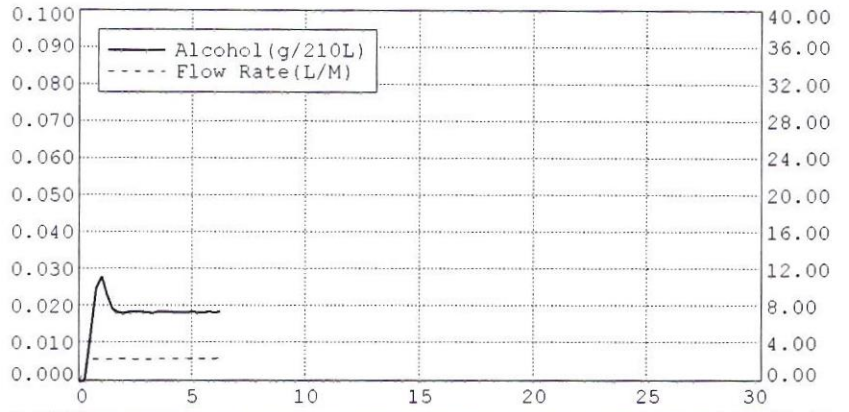
Date: 08/17/2023
Time: 14:32:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.84: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 775 psi

BLANK TEST	0.000	14:33
INTERNAL STANDARD	VERIFIED	14:34
EXTERNAL STANDARD	0.020	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.020	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.020	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.020	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.020	14:38
BLANK TEST	0.000	14:39

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100410

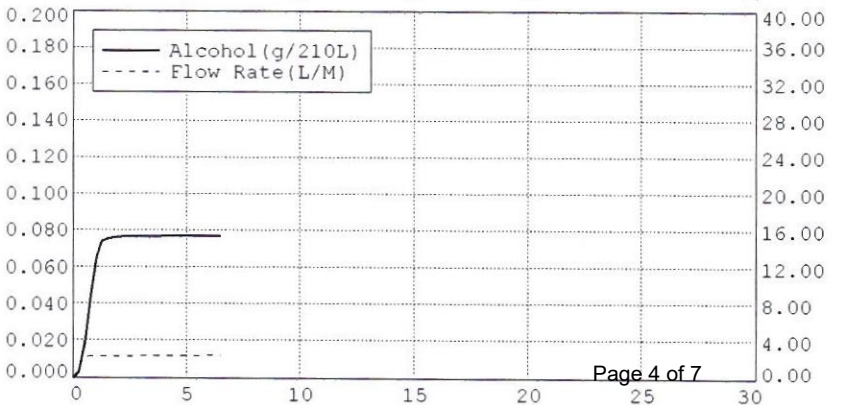
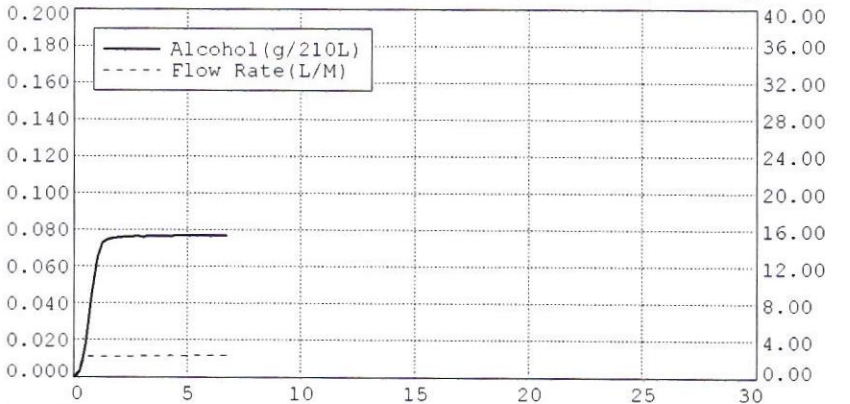
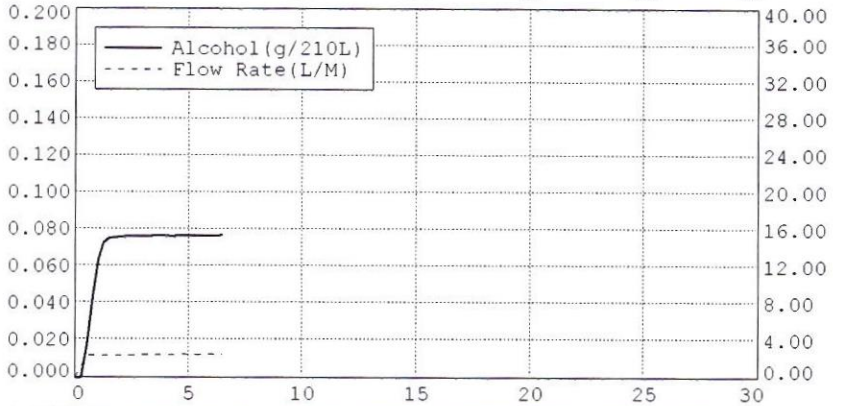
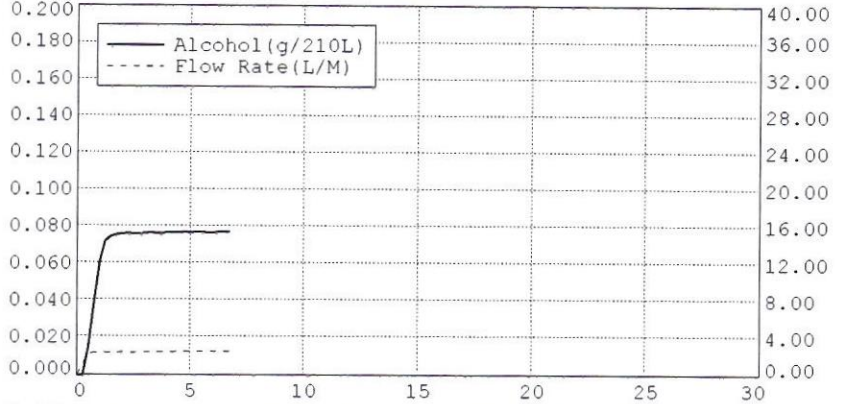
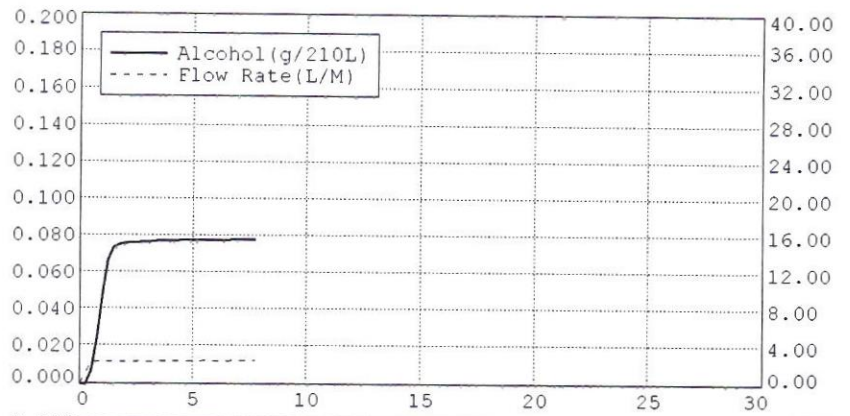
Date: 08/17/2023
Time: 14:42:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.84: 0.080
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 984 psi

BLANK TEST	0.000	14:43
INTERNAL STANDARD	VERIFIED	14:43
EXTERNAL STANDARD	0.079	14:44
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.078	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.078	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.078	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.078	14:48
BLANK TEST	0.000	14:49

Average = 0.0782
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100410

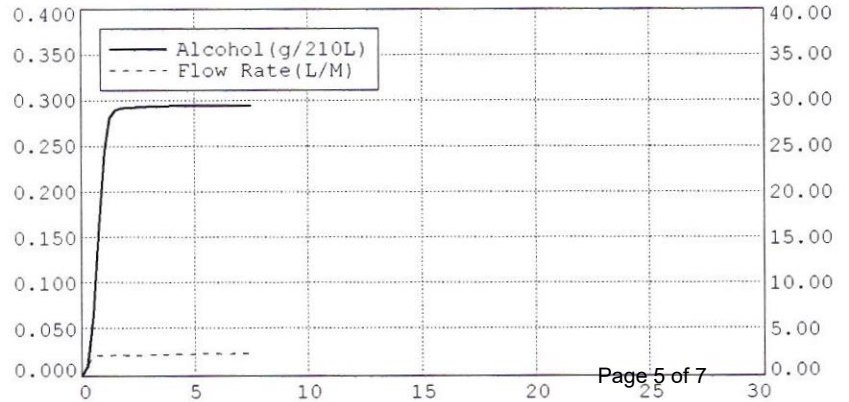
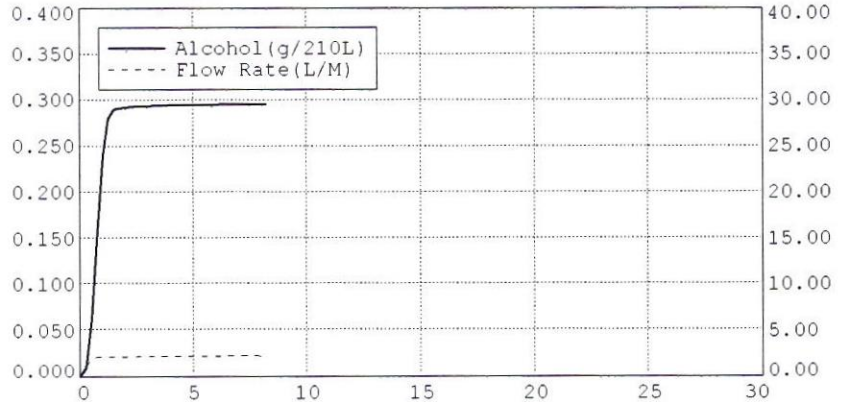
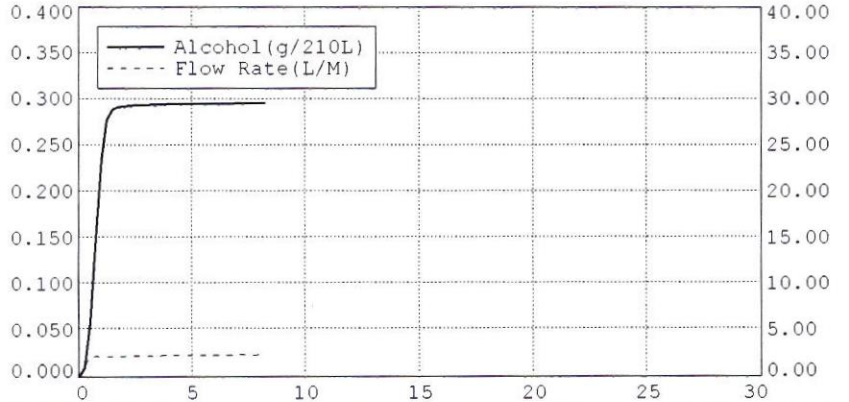
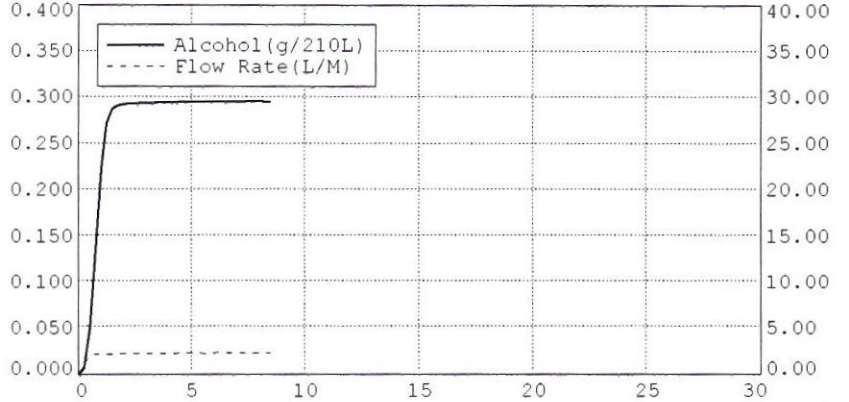
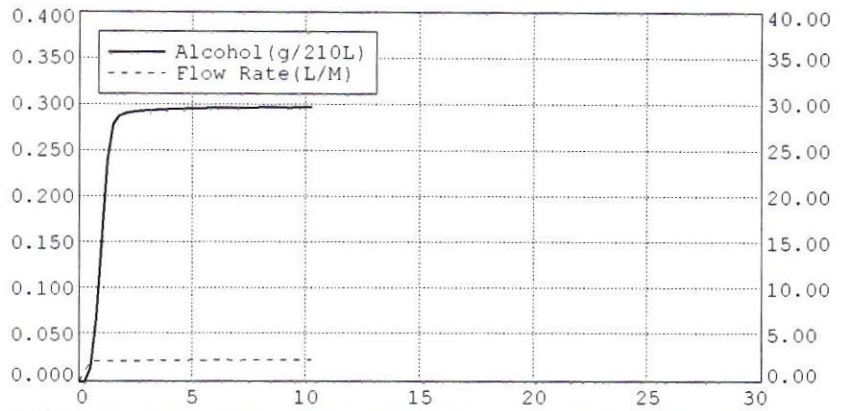
Date: 08/17/2023
Time: 14:51:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.84: 0.299
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 274 psi

BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:52
EXTERNAL STANDARD	0.297	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.296	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.295	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.296	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.295	14:57
BLANK TEST	0.000	14:58

Average = 0.2958
Std Dev = 0.0008



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100410

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date:08/17/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.84: 0.080
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 963 psi

BLANK TEST	0.000	15:08
INTERNAL STANDARD	VERIFIED	15:08
Xq = 0.088 (1.61%)		
EXTERNAL STANDARD	0.080	15:09
X[1] = 0.0798 (-0.0006) (0.0028)		
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.079	15:10
X[1] = 0.0787 (-0.0014) (0.0026)		
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.079	15:11
X[1] = 0.0788 (-0.0012) (0.0027)		
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.079	15:12
X[1] = 0.0785 (-0.0009) (0.0030)		
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.078	15:13
X[1] = 0.0782 (-0.0014) (0.0026)		
BLANK TEST	0.000	15:14

Average = 0.0790
Std Dev = 0.0007

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.67 V	PASSED
(1.01 V - 2.35 V)	
Cooler Voltage = 1.69 V	PASSED
(1.03 V - 2.41 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 531 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.842 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD PASSED

Xq = 0.088 1.10% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 08/17/2023
Time: 15:26:11

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	15:31
BLANK TEST	0.000	15:32
INTERNAL STANDARD	VERIFIED	15:32
EXTERNAL STANDARD	0.079	15:32
BLANK TEST	0.000	15:33
SUBJECT SAMPLE (Vol=1.73L)	0.000	15:33
BLANK TEST	0.000	15:34
EXTERNAL STANDARD	0.079	15:34
BLANK TEST	0.000	15:35

TNW

