

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100667

Analyst(s): Tatiana Malinocke

Start Date: 12/06/22

Supervised by: Colleen O'Bryant

Date Received: 12/06/22

Reason for instrument evaluation

Accidentally pulled for PM.

Visual Inspection

- Clean
- Cermetex Box (modem) is secure
- Double Check Valve secured to wall
- O-ring inspection and ensure 2 replacement O-rings in bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections secure

As Found Conditions:

Barometric Pressure (inHg): 29.25 Temperature (C): 22.6 Relative Humidity (%): 21%

Linearity Test (attached)

0.020g/210L Mnf:	<u>Airgas</u>	Lot:	<u>AG100401</u>	Exp:	<u>01/04/2023</u>
0.080g/210L Mnf:	<u>Airgas</u>	Lot:	<u>AG113402</u>	Exp:	<u>05/14/2023</u>
0.300g/210L Mnf:	<u>Airgas</u>	Lot:	<u>AG130502</u>	Exp:	<u>11/01/2023</u>

Notes

- VOC (attached)
- VOC Internal Standard value \leq 3.00%
- Verify software version
- Non-Drinking Subject Test (attached)

Condition of item: Good Needs Repair

- Ready for Adjustment
- Ready for Calibration

End Date: 12/06/22

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

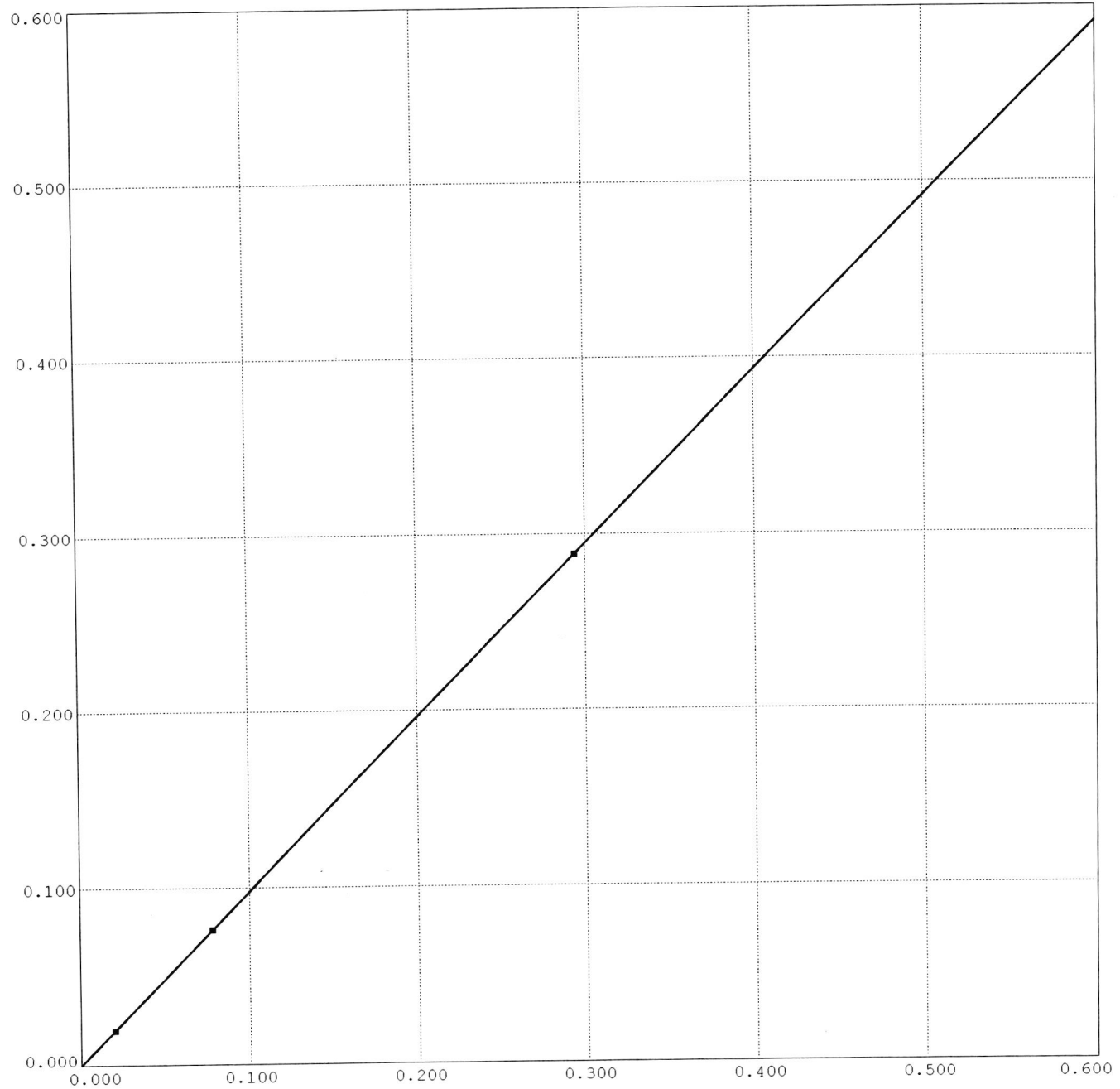
Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 12/06/2022
Time: 14:23:31

SUPERVISOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.078	0.0772	0.0004
0.293	0.2890	0.0000

SLOPE = 0.985285
R² = 1.000000



TIN

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100667

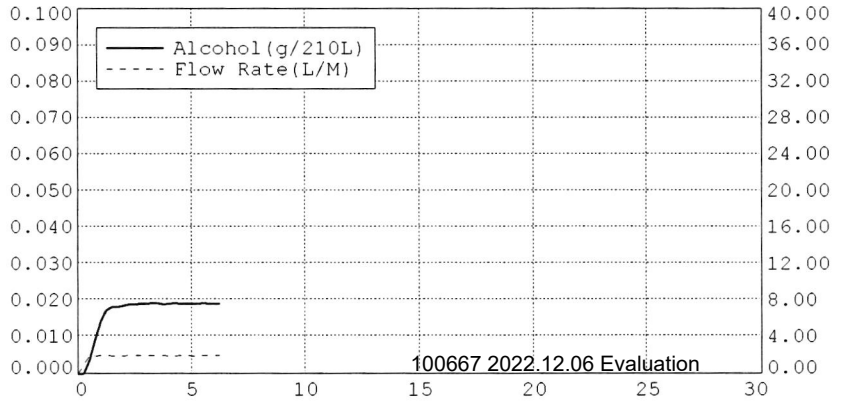
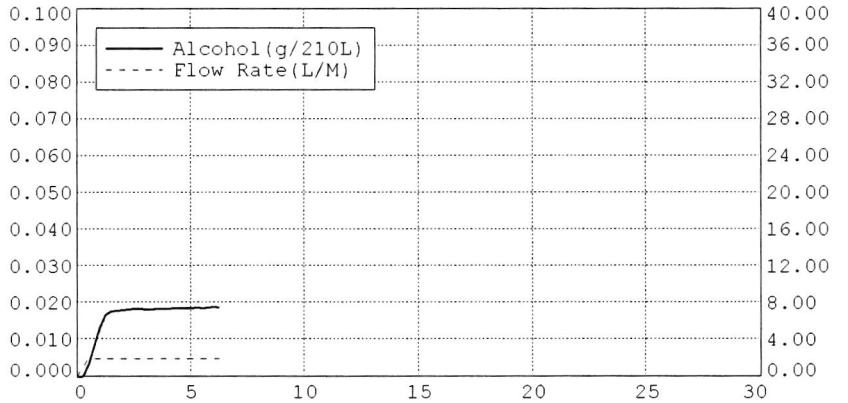
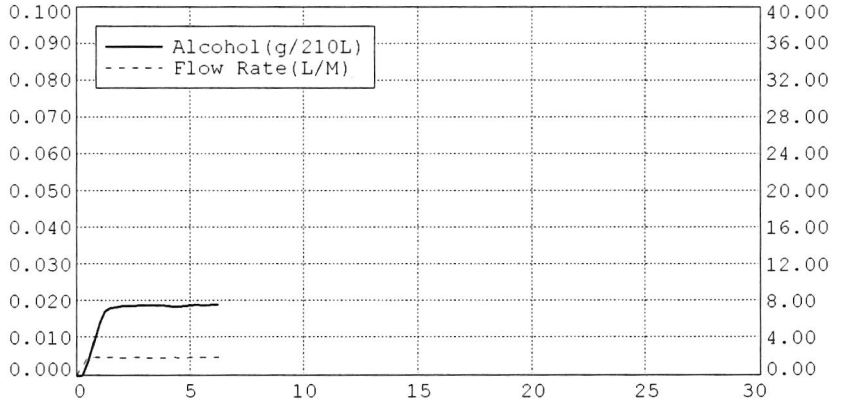
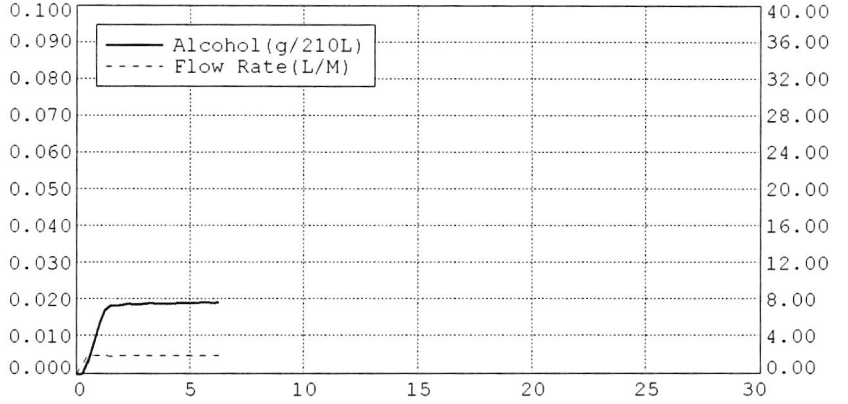
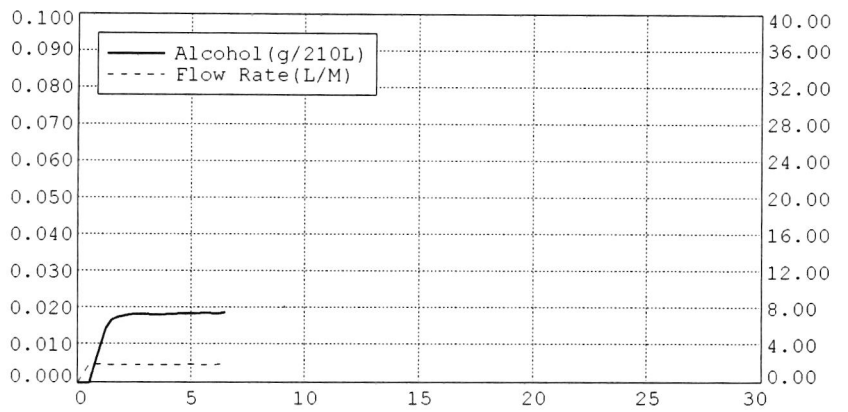
Date: 12/06/2022
Time: 14:23:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.24: 0.020
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 219 psi

BLANK TEST	0.000	14:26
INTERNAL STANDARD	VERIFIED	14:26
EXTERNAL STANDARD	0.020	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.020	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.020	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.020	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.020	14:30
BLANK TEST	0.000	14:31

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100667

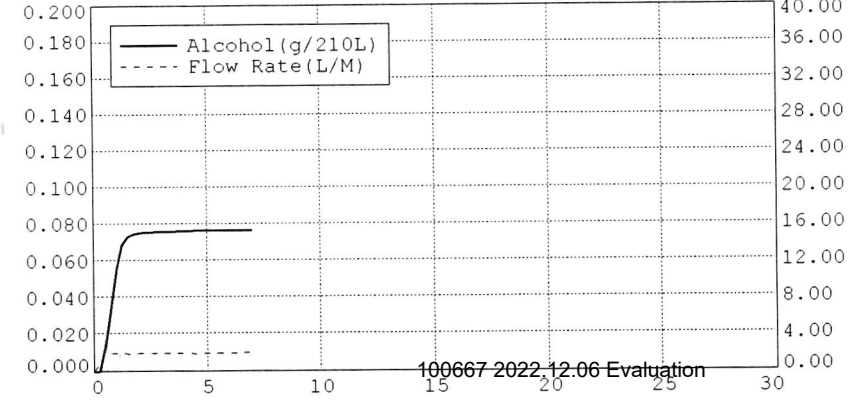
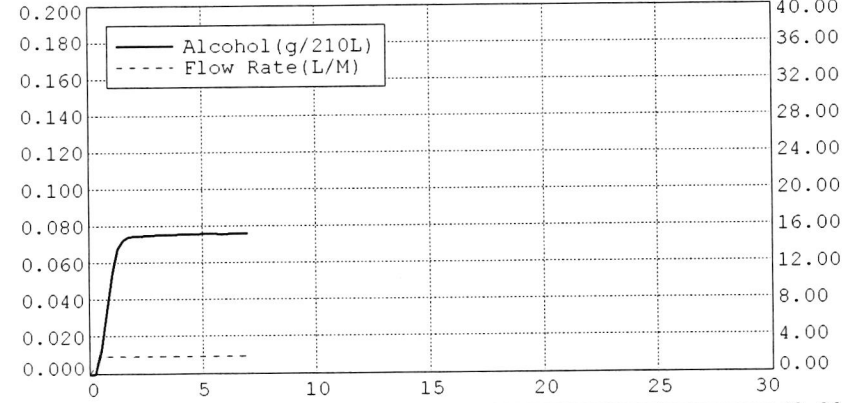
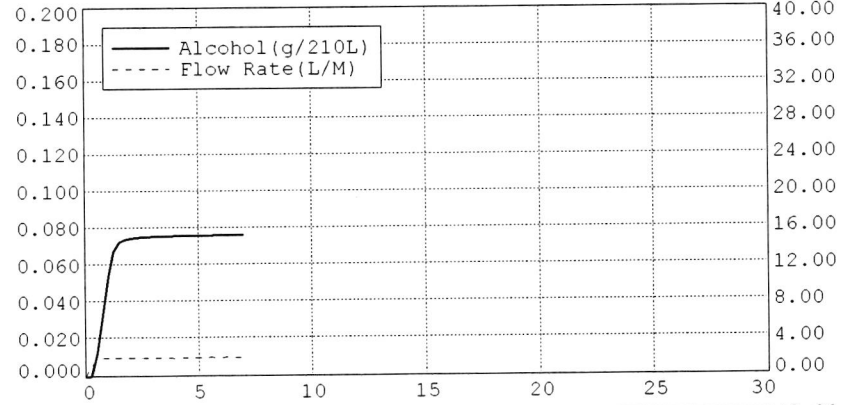
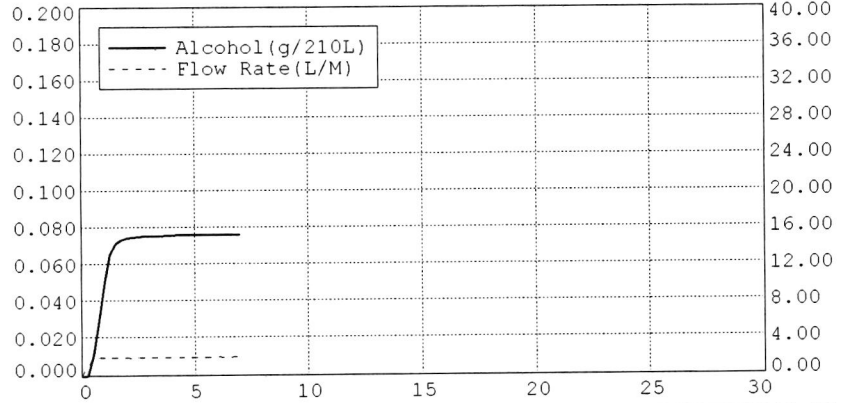
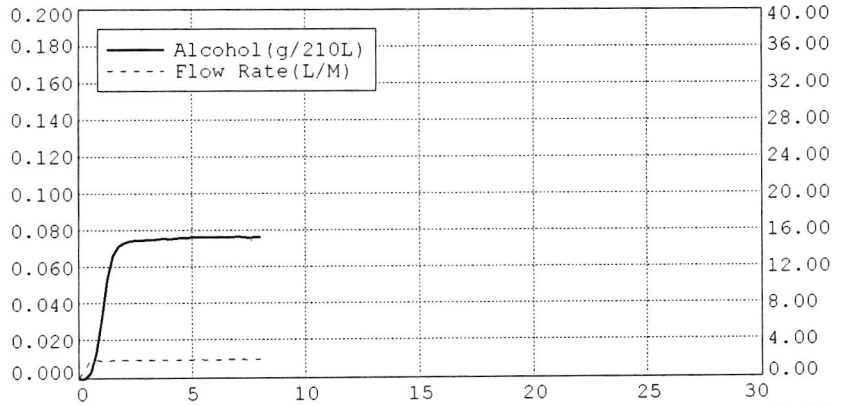
Date: 12/06/2022
Time: 14:36:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.24: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 681 psi

BLANK TEST	0.000	14:37
INTERNAL STANDARD	VERIFIED	14:37
EXTERNAL STANDARD	0.078	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.077	14:39
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.077	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.077	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.077	14:42
BLANK TEST	0.000	14:43

Average = 0.0772
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

 Alaska Department of Public Safety
 DATAMASTER dmt: 100667

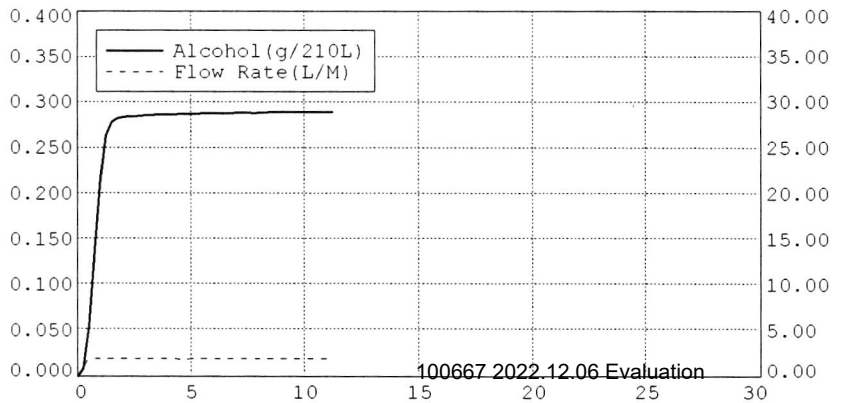
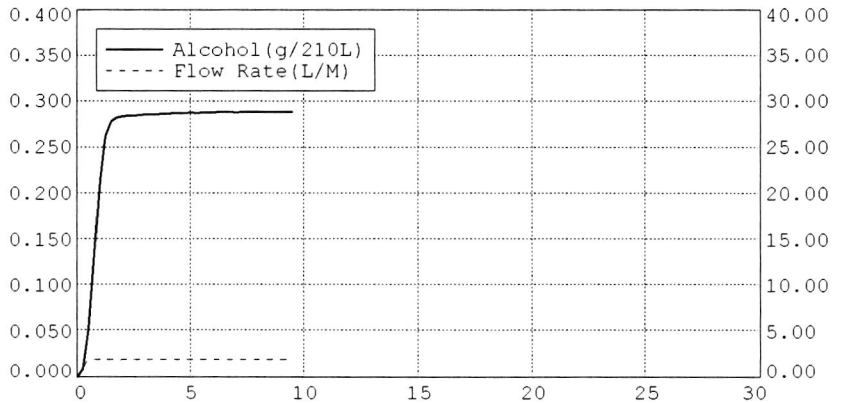
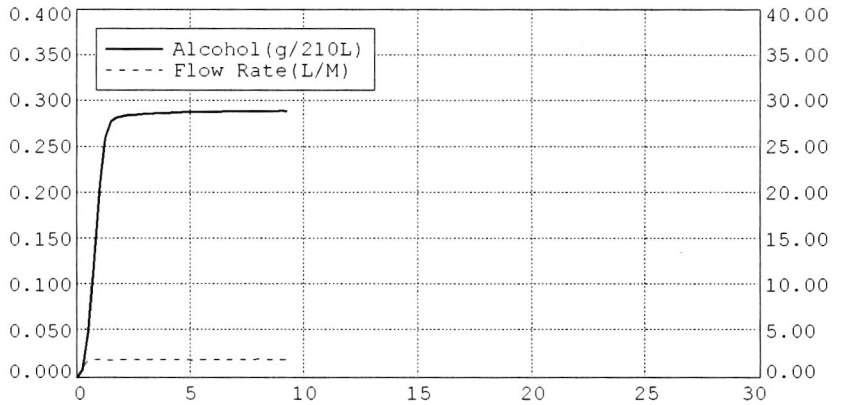
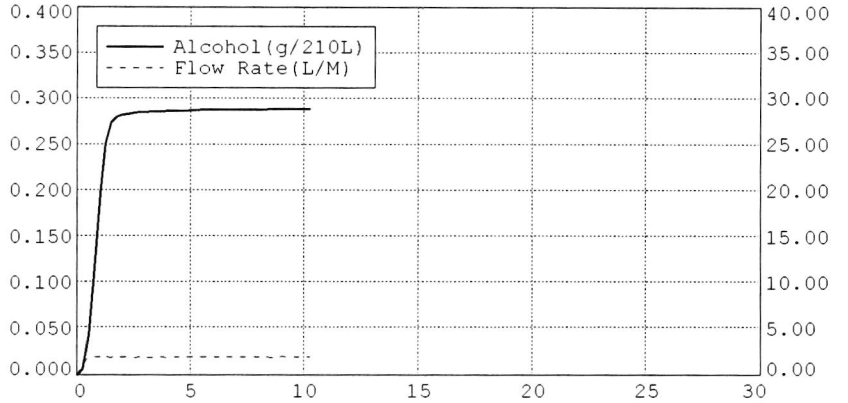
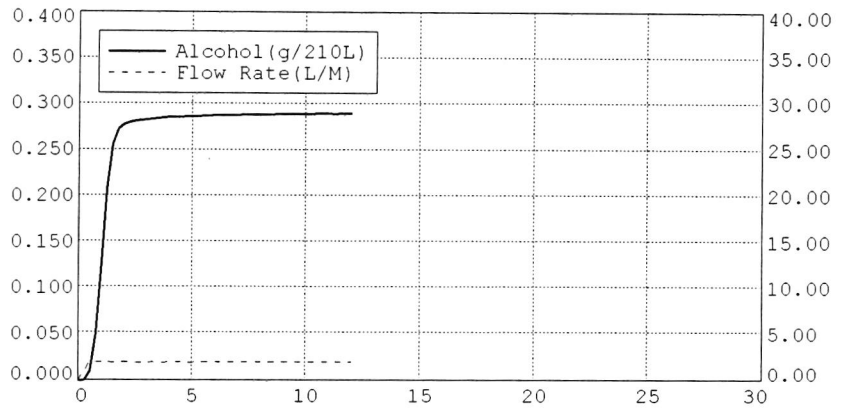
Date: 12/06/2022
 Time: 14:49:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.25: 0.293
 LOT #: AG130502
 EXPIRATION: 11/01/2023
 TANK PRESSURE: 166 psi

BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.289	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.289	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.289	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.289	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.289	14:55
BLANK TEST	0.000	14:56

Average = 0.2890
 Std Dev = 0.0000



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100667

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/06/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.24: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 662 psi

BLANK TEST	0.000	15:05
INTERNAL STANDARD	VERIFIED	15:05
Xq = 0.106 (0.17%)		
EXTERNAL STANDARD	0.078	15:05
X[1] = 0.0785 (-0.0013) (0.0028)		
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.077	15:06
X[1] = 0.0774 (-0.0021) (0.0029)		
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.077	15:07
X[1] = 0.0771 (-0.0018) (0.0023)		
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.078	15:08
X[1] = 0.0781 (-0.0013) (0.0026)		
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.077	15:09
X[1] = 0.0769 (-0.0023) (0.0021)		
BLANK TEST	0.000	15:10

Average = 0.0774
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.8°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.15 V PASSED
(1.15 V - 2.67 V)
Cooler Voltage = 1.75 V PASSED
(1.16 V - 2.70 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 528 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.478 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

Xq = 0.106 0.08% (0.00% - 4.00%) PASSED

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 12/06/2022
Time: 15:15:41

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
TATIANA MALNOSKE
OPERATOR'S #: 10437

DEPT/AGENCY:
NON DRINKING SUBJECT TEST
CASE/REPORT: 2022
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.23: 0.078

DIAGNOSTIC CHECK	PASSED	15:16
BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
EXTERNAL STANDARD	0.077	15:17
BLANK TEST	0.000	15:18
SUBJECT SAMPLE (Vol=1.60L)	0.000	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.078	15:19
BLANK TEST	0.000	15:20

TML

