

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100348

Analyst(s): Derch Walton

Start Date: 11/09/22

Date Received: 09/07/22

Reason for instrument evaluation

Preventative maintenance due

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 | |

As Found Conditions:

Barometric Pressure (inHg): 29.34 Temperature (C): 21.8 Relative Humidity (%) 21

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>AG100401</u>	Exp: <u>01/04/23</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>AG113402</u>	Exp: <u>05/14/23</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG130502</u>	Exp: <u>11/01/23</u>

Notes

Replaced o-ring, Tightened source block

- | | |
|--|--|
| <input checked="" type="checkbox"/> VOC (attached) | <input checked="" type="checkbox"/> Verify software version |
| <input checked="" type="checkbox"/> VOC Internal Standard value \leq 3.00% | <input checked="" type="checkbox"/> Non-Drinking Subject Test (attached) |

Condition of item: Good Needs Repair

- Ready for Adjustment
 Ready for Calibration

End Date: 11/09/22

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

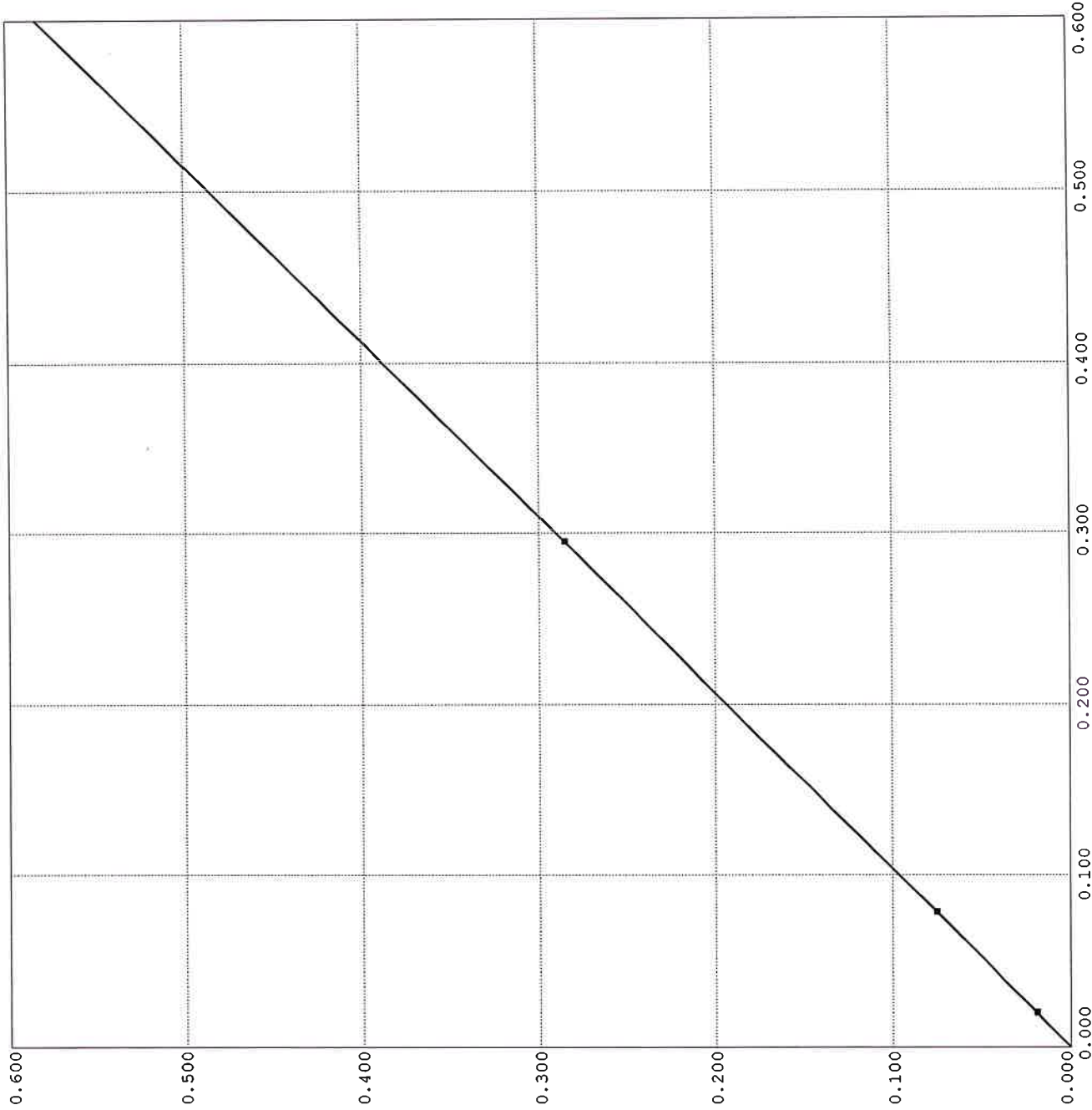
Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 11/09/2022
Time: 14:32:58

SUPERVISOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.078	0.0760	0.0000
0.294	0.2860	0.0000

SLOPE = 0.972252
R² = 1.000000



DW

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100348

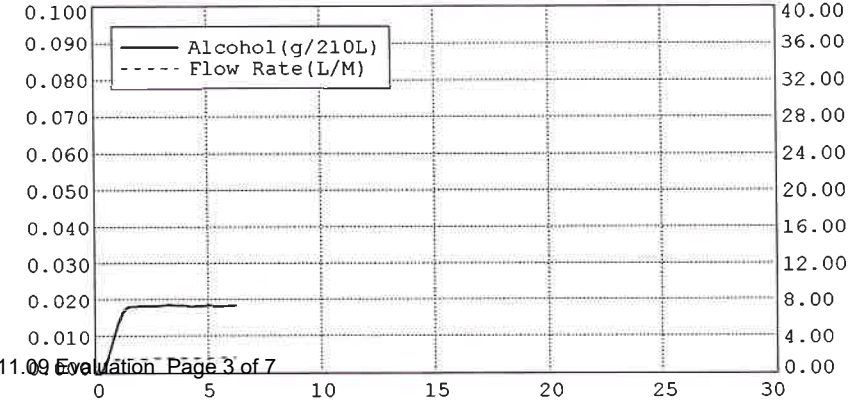
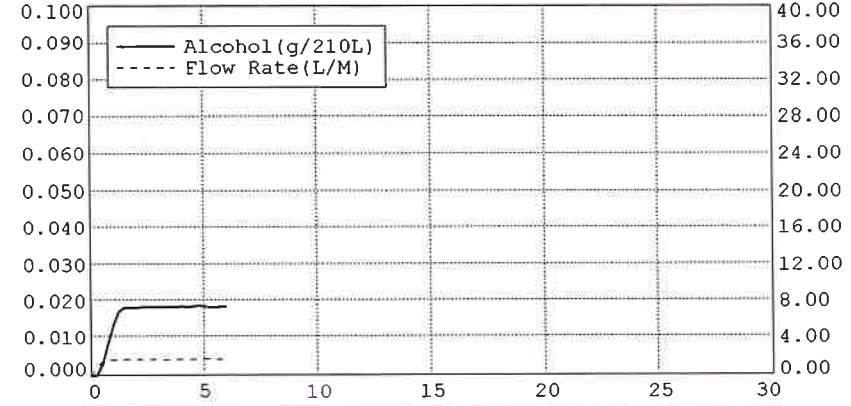
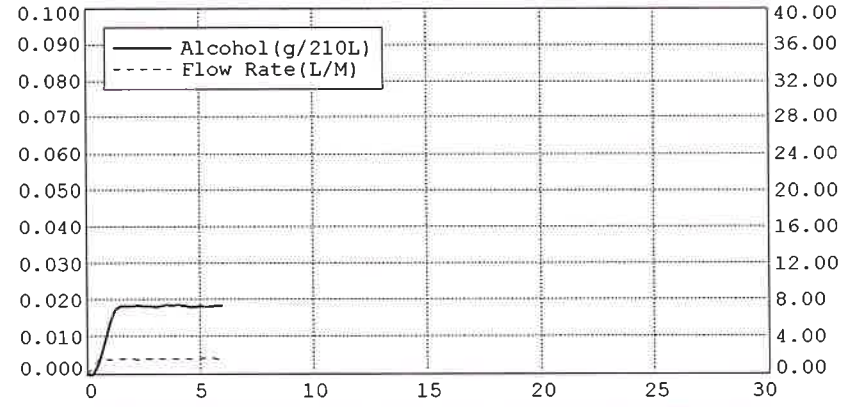
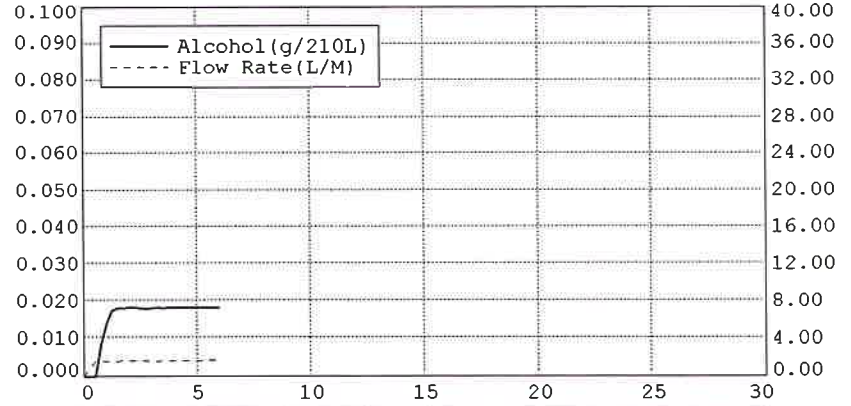
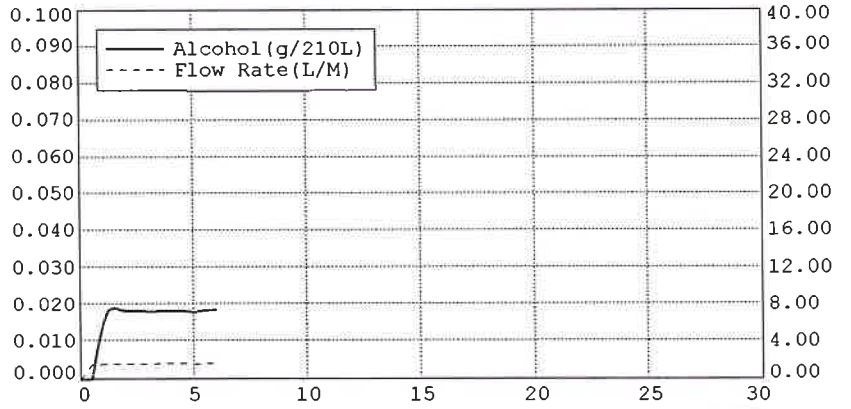
Date: 11/09/2022
Time: 14:33:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.35: 0.020
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 468 psi

BLANK TEST	0.000	14:34
INTERNAL STANDARD	VERIFIED	14:34
EXTERNAL STANDARD	0.019	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.019	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 = 0.0196
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

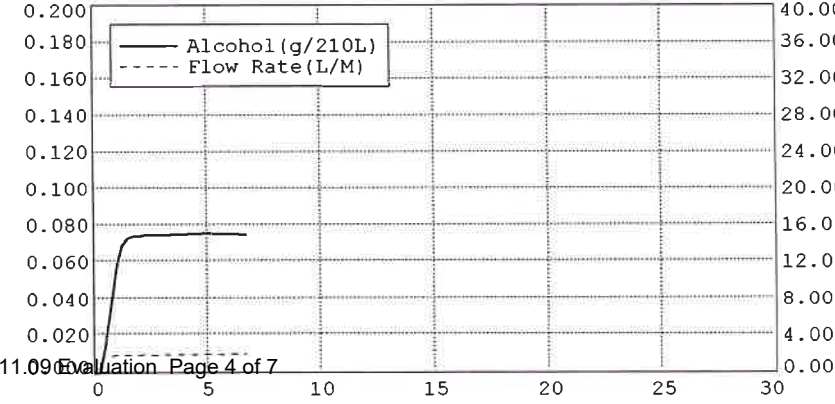
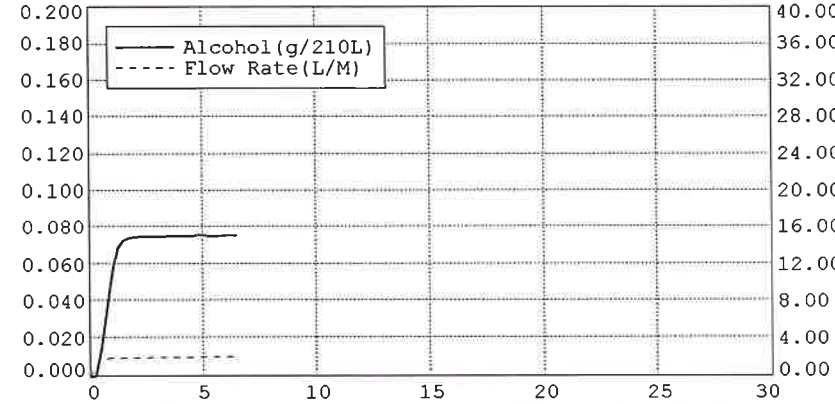
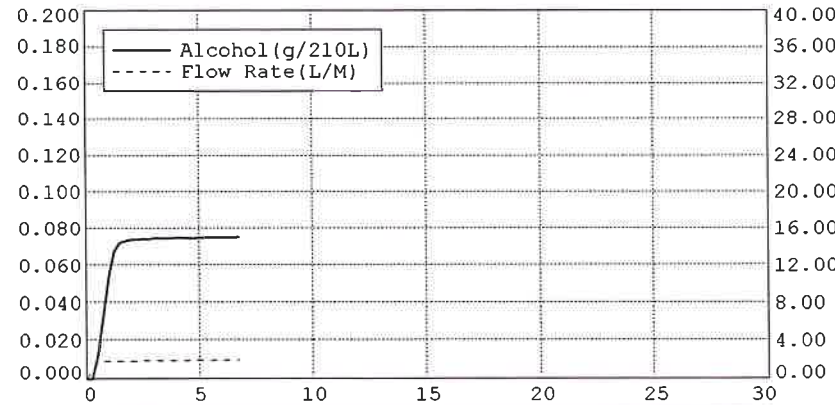
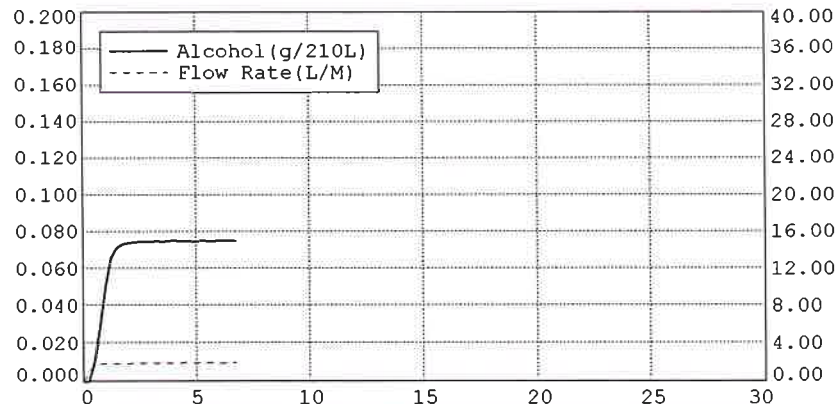
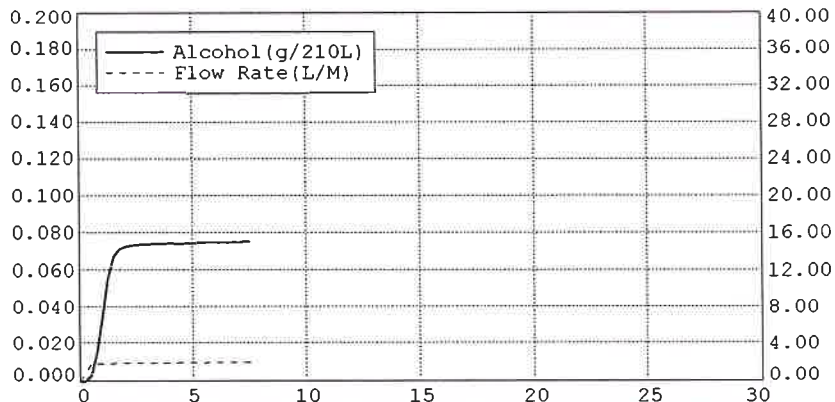
Date: 11/09/2022
 Time: 14:41:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.35: 0.078
 LOT #: AG113402
 EXPIRATION: 05/14/2023
 TANK PRESSURE: 920 psi

BLANK TEST	0.000	14:42
INTERNAL STANDARD	VERIFIED	14:42
EXTERNAL STANDARD	0.076	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.076	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.076	14:45
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.076	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.076	14:47
BLANK TEST	0.000	14:48

Average = 0.0760
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100348

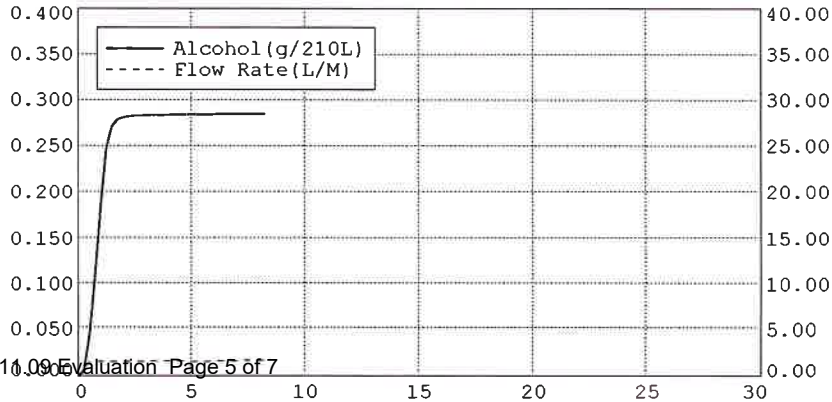
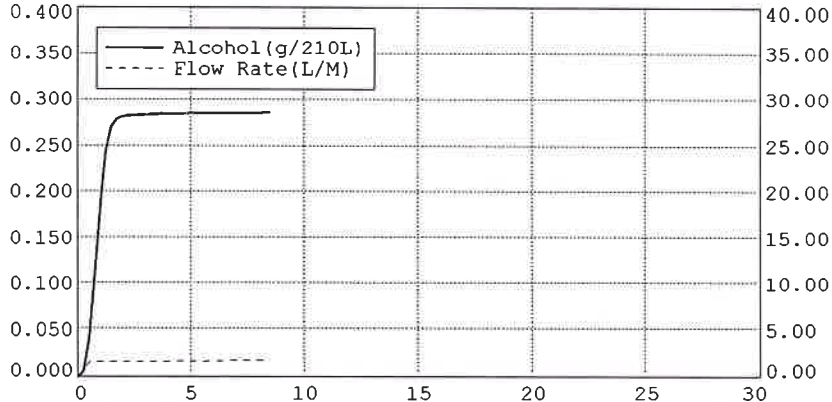
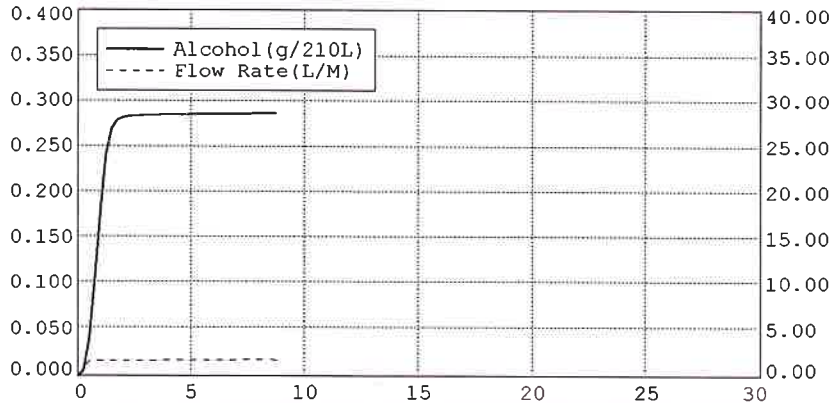
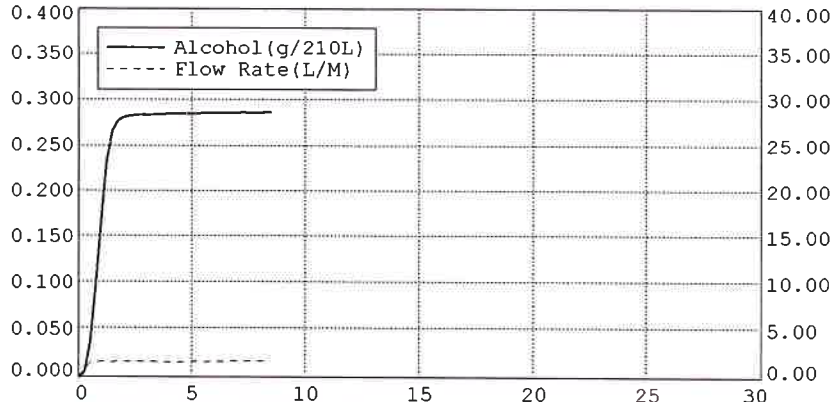
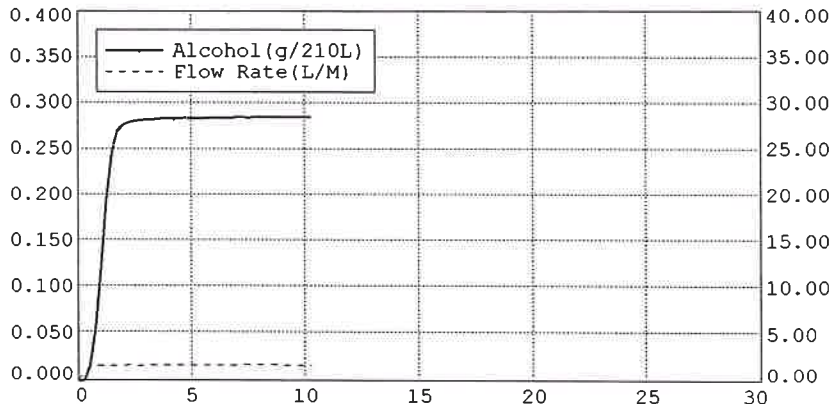
Date: 11/09/2022
 Time: 14:55:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.35: 0.294
 LOT #: AG130502
 EXPIRATION: 11/01/2023
 TANK PRESSURE: 423 psi

BLANK TEST	0.000	14:56
INTERNAL STANDARD	VERIFIED	14:56
EXTERNAL STANDARD	0.286	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.286	14:58
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.286	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.286	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.286	15:01
BLANK TEST	0.000	15:02

Average = 0.2860
 Std Dev = 0.0000



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100348

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/09/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.36: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 896 psi

BLANK TEST	0.000	15:07
INTERNAL STANDARD	✓ VERIFIED	15:08
Xq = 0.091 (2.25%)		
EXTERNAL STANDARD	0.077	15:08
X[1] = 0.0775 (-0.0008) (0.0026)		
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.077	15:09
X[1] = 0.0768 (-0.0005) (0.0025)		
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.076	15:10
X[1] = 0.0762 (-0.0014) (0.0019)		
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.076	15:11
X[1] = 0.0764 (-0.0006) (0.0019)		
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.077	15:12
X[1] = 0.0765 (-0.0011) (0.0026)		
BLANK TEST	0.000	15:13

Average = 0.0766
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.71 V	PASSED
(1.01 V - 2.35 V)	
Cooler Voltage = 1.71 V	PASSED
(1.04 V - 2.44 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 537 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.421 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 ✓ PASSED

Xq = 0.091 1.76% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 11/09/2022
Time: 15:18:55

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.36: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	15:19
BLANK TEST	0.000	15:20
INTERNAL STANDARD	VERIFIED	15:20
EXTERNAL STANDARD	0.076	15:20
BLANK TEST	0.000	15:21
SUBJECT SAMPLE (Vol=2.92L)	0.000	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.077	15:22
BLANK TEST	0.000	15:23

Dm

