

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100906

Analyst/Technician(s): Kayle Swisher

Start Date: 6/13/24

Date Instrument Received: 6/13/24

*Supervised casework with
Deren Walter 06/18/24*

Reason for instrument evaluation

Double check valve not secured to wall.

Visual Inspection:

- Clean
- Replace missing screws
- Cermetex Box (modem) is secure
- Ensure modem cable present
- * ^{see notes} Double Check Valve secured to wall
- * All tubing and connections secure
- O-ring inspection and ensure 2 replacement O-rings in bag
- Attach VOC
- VOC Internal Standard $\leq 3.00\%$
- Verify software version
- Condition of item: No apparent damage Damaged * (refer to notes KS 6/17/24)

NOTE: As Found Linearity is required if the instrument is not damaged and the internal standard value is not more than 4.00%

As Found Conditions (if performed): (24)

Barometric Pressure (inHg): 29.85 Temperature (C): 21.0 Relative Humidity (%) 45

Linearity Test Levels (g/210L): 0.020, 0.080, 0.300

* Notes: Double check valve not securely attached even after using adhesive. Exposed wire on bottom right side of board. VOC was able to be completed after securing breath tube connection. Replaced O-ring. Linearity ~~was~~ performed, 6/18/24. Status message "Breath tube temp too low" occurred multiple times.

Attach Non-Drinking Subject Test

Conclusion:

- Ready for Adjustment
- Needs Repair
- Ready for Calibration

Lab Work End Date: 6/18/24

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100406

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/17/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 584 psi

BLANK TEST	0.000	11:52
INTERNAL STANDARD	VERIFIED	11:52
Xq = 0.085 (0.61%)		
EXTERNAL STANDARD	0.080	11:52
X[1] = 0.0798 (-0.0016) (-0.0020)		
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.080	11:54
X[1] = 0.0796 (-0.0013) (-0.0015)		
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.080	11:55
X[1] = 0.0796 (-0.0022) (-0.0015)		
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.079	11:56
X[1] = 0.0792 (-0.0020) (-0.0021)		
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.080	11:57
X[1] = 0.0798 (-0.0014) (-0.0018)		
BLANK TEST	0.000	11:58

Average = 0.0798
Std Dev = 0.0004

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 = 42.2°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.74 V	PASSED
(1.07 V - 2.51 V)	
Cooler Voltage = 1.74 V	PASSED
(1.07 V - 2.51 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 514 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 5.036 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 = 0.085	0.10%	(0.00% - 4.00%)	PASSED
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LINEARITY CHECK

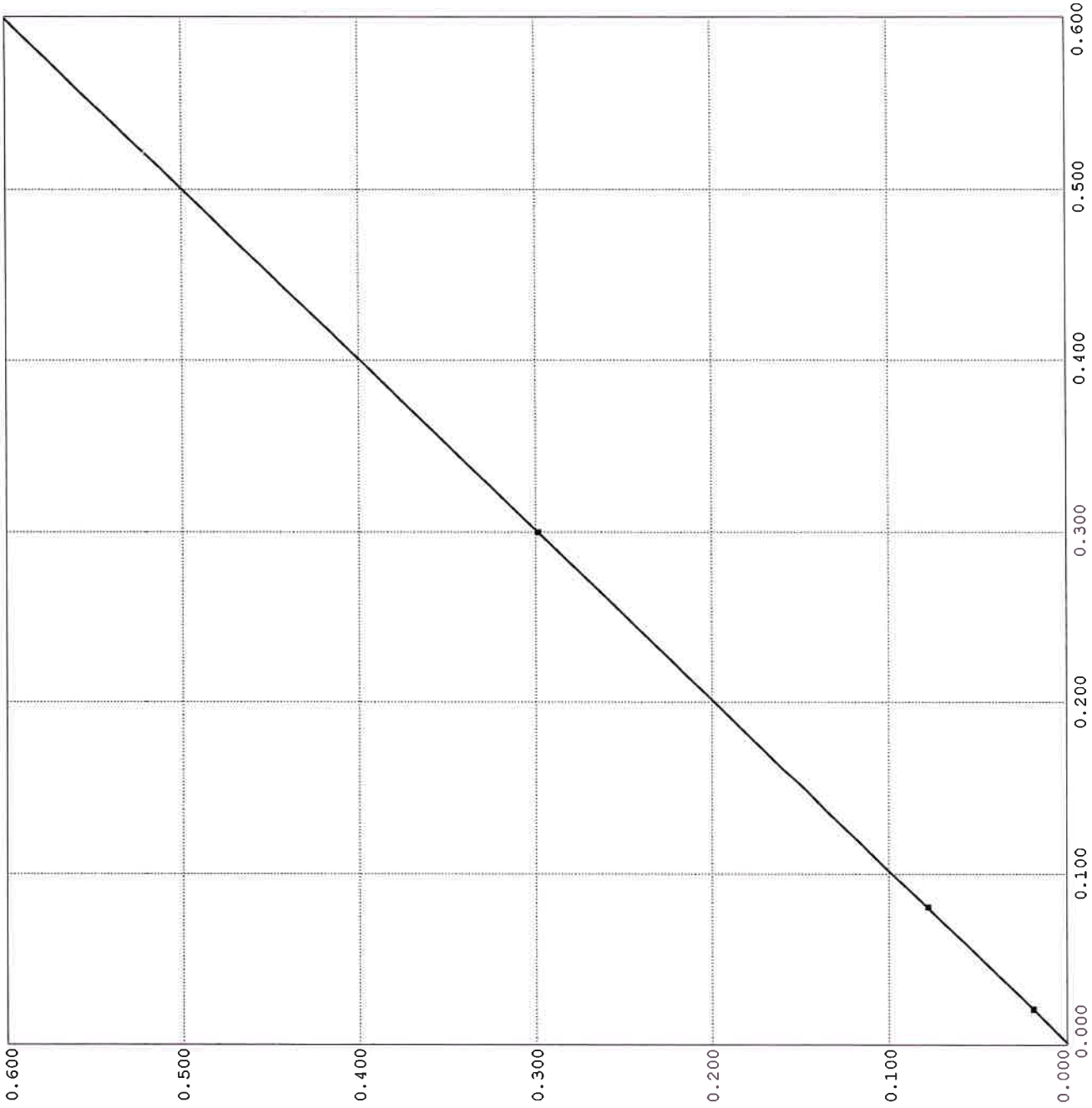
 Alaska Department of Public Safety
 DATAMASTER dmt: 100406

Date: 06/18/2024
 Time: 08:52:03

SUPERVISOR NAME:
 KAIJA SWISHER
 OPERATOR'S #: 10746

TARGET	AVERAGE	STD. DEV.
0.020	0.0194	0.0005
0.080	0.0790	0.0000
0.299	0.2992	0.0004

SLOPE = 1.003570
 R² = 0.999995



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LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100406

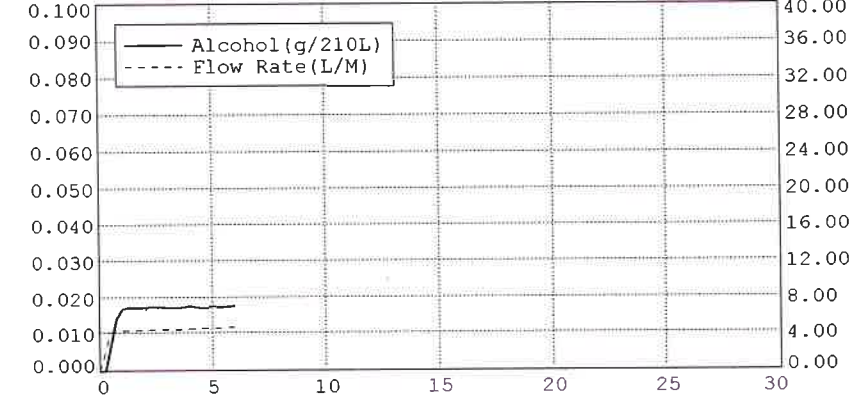
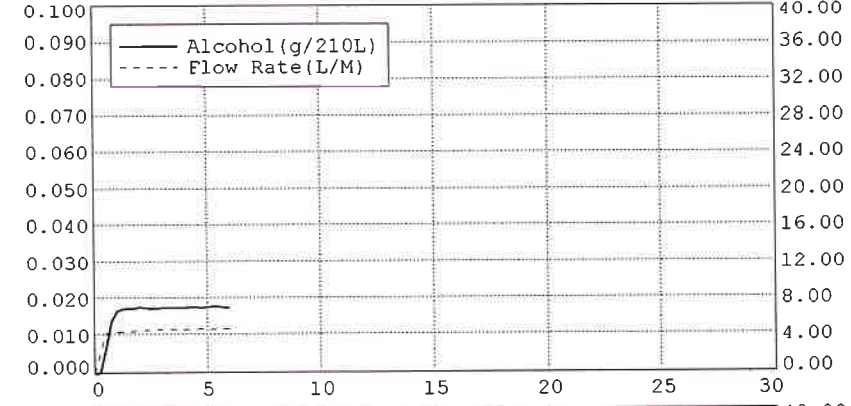
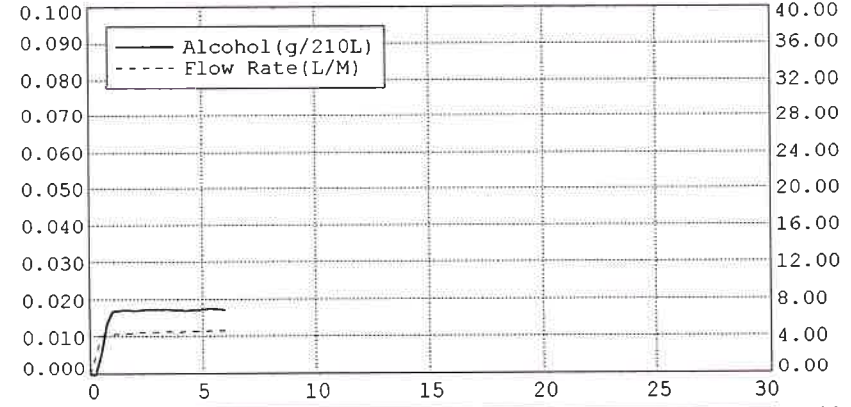
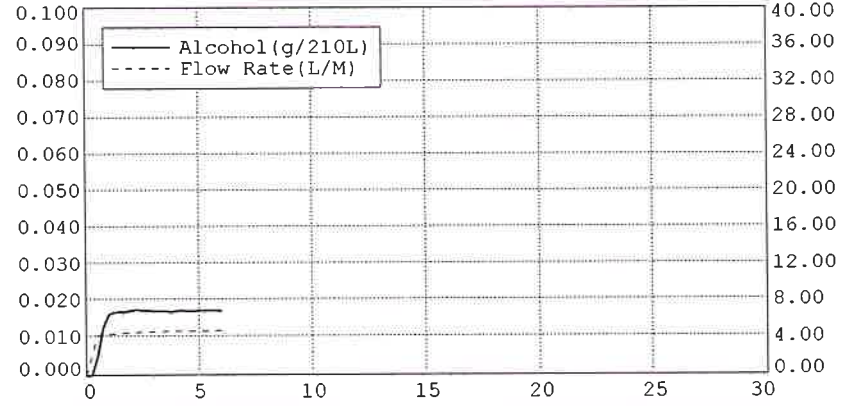
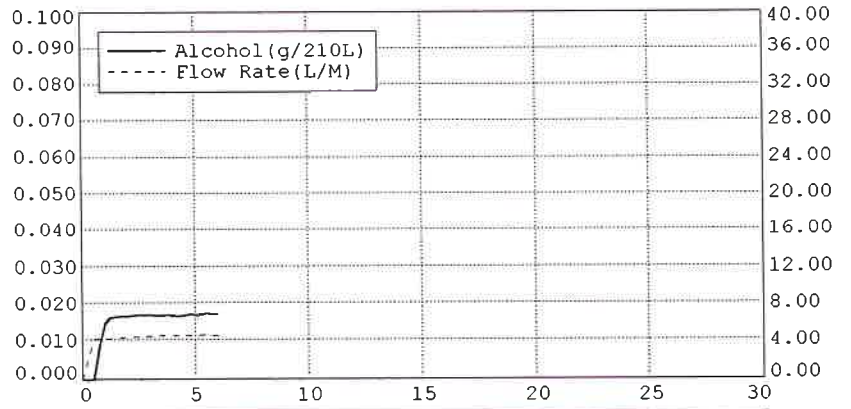
Date: 06/18/2024
 Time: 08:52:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.82: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 624 psi

BLANK TEST	0.000	08:54
INTERNAL STANDARD	VERIFIED	08:54
EXTERNAL STANDARD	0.019	08:54
BLANK TEST	0.000	08:55
EXTERNAL STANDARD	0.019	08:55
BLANK TEST	0.000	08:56
EXTERNAL STANDARD	0.019	08:56
BLANK TEST	0.000	08:57
EXTERNAL STANDARD	0.020	08:57
BLANK TEST	0.000	08:58
EXTERNAL STANDARD	0.020	08:58
BLANK TEST	0.000	08:59

Average = 0.0194
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100406

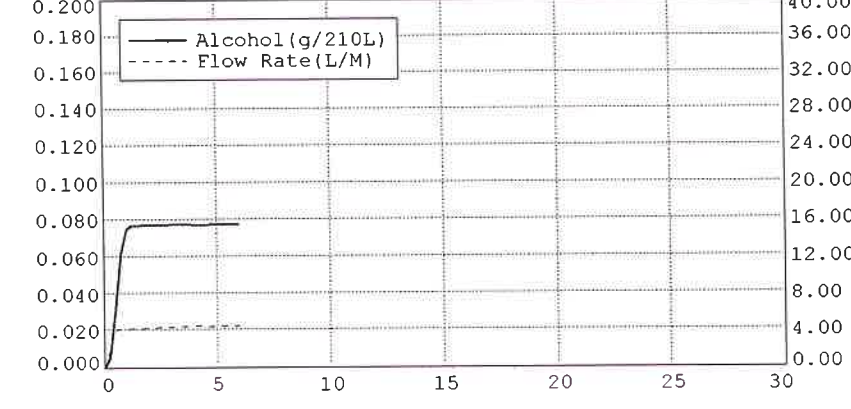
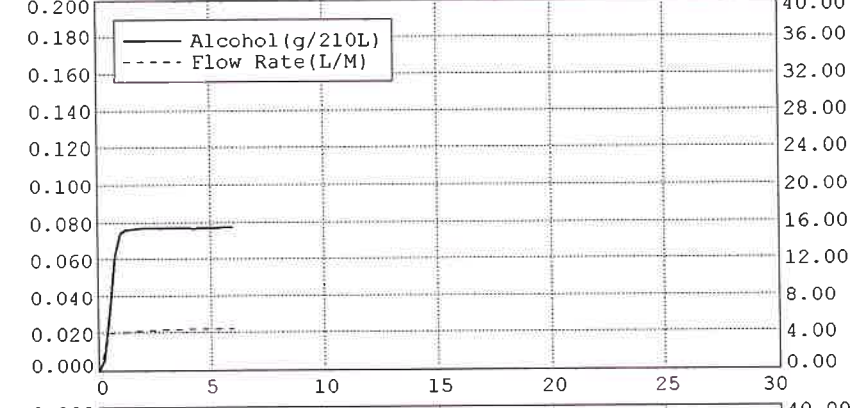
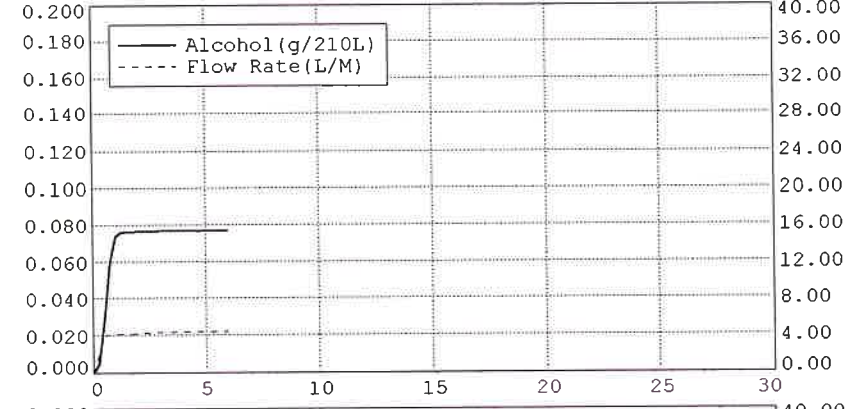
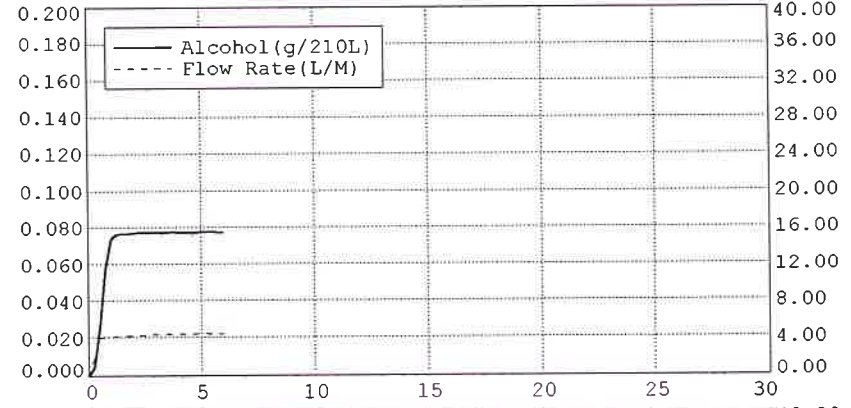
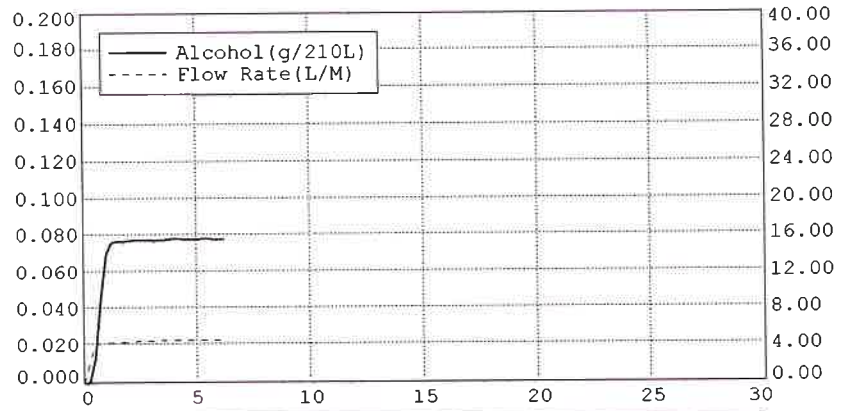
Date: 06/18/2024
Time: 09:00:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.82: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 558 psi

BLANK TEST	0.000	09:01
INTERNAL STANDARD	VERIFIED	09:02
EXTERNAL STANDARD	0.079	09:02
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.079	09:03
BLANK TEST	0.000	09:04
EXTERNAL STANDARD	0.079	09:04
BLANK TEST	0.000	09:05
EXTERNAL STANDARD	0.079	09:05
BLANK TEST	0.000	09:06
EXTERNAL STANDARD	0.079	09:06
BLANK TEST	0.000	09:07

Average = 0.0790
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100406

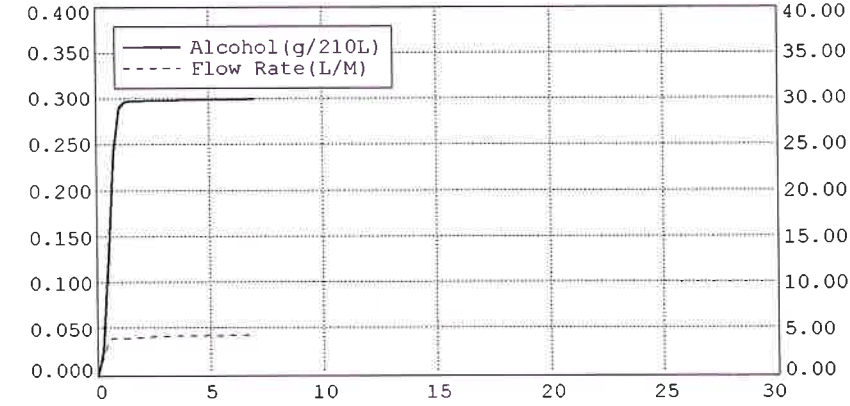
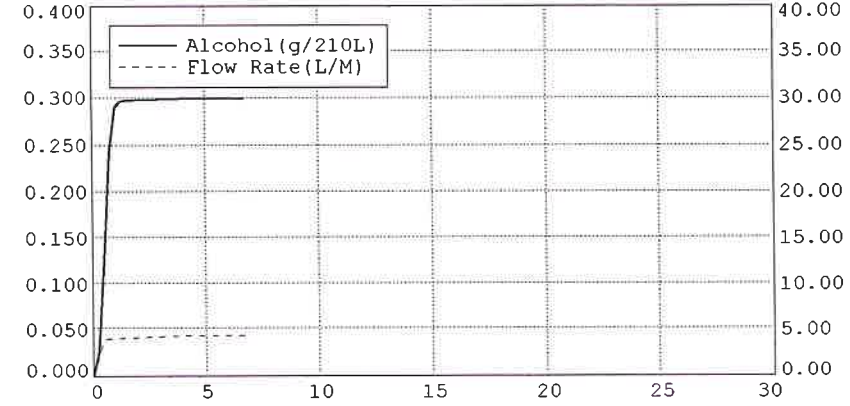
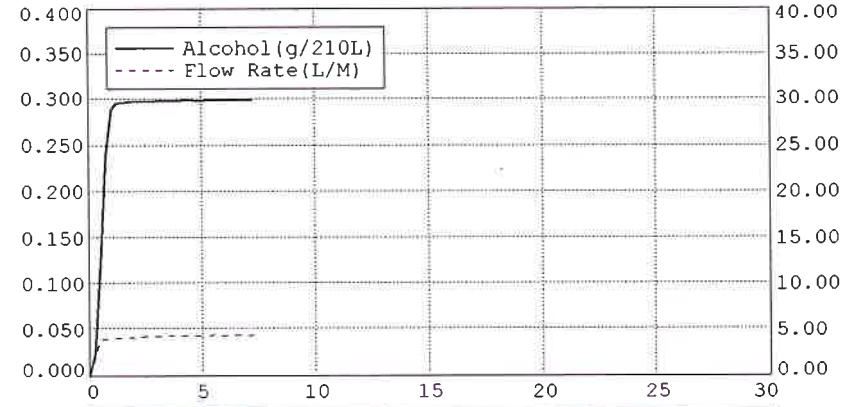
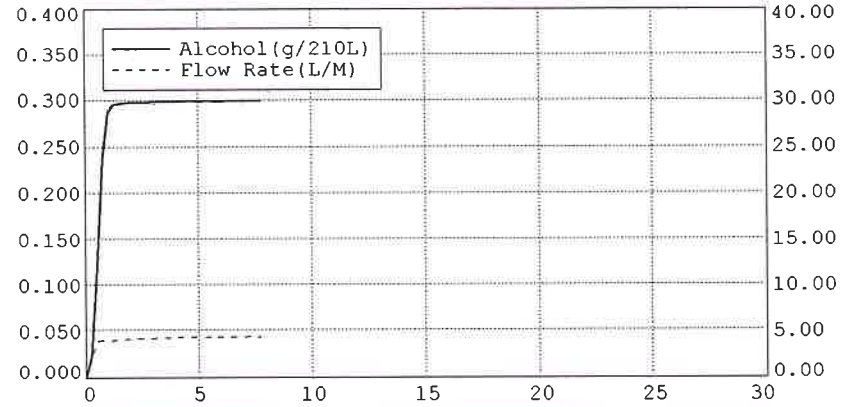
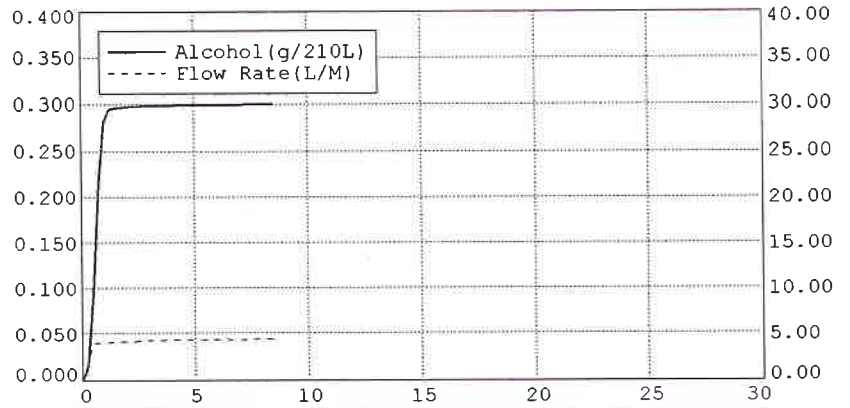
Date: 06/18/2024
Time: 09:15:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.82: 0.299
LOT #: AG327804
EXPIRATION: 10/05/2025
TANK PRESSURE: 454 psi

BLANK TEST	0.000	09:16
INTERNAL STANDARD	VERIFIED	09:16
EXTERNAL STANDARD	0.300	09:16
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.299	09:17
BLANK TEST	0.000	09:18
EXTERNAL STANDARD	0.299	09:18
BLANK TEST	0.000	09:19
EXTERNAL STANDARD	0.299	09:19
BLANK TEST	0.000	09:20
EXTERNAL STANDARD	0.299	09:20
BLANK TEST	0.000	09:21

Average = 0.2992
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100406

Date: 06/18/2024

Time: 11:15:19

SUBJECT NAME:

TEST TEST

LICENSE #: XXX

OPERATOR NAME:

KAIJA SWISHER

OPERATOR'S #: 10746

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 #: AG335202

EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	11:16
BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:16
EXTERNAL STANDARD	0.080	11:16
BLANK TEST	0.000	11:17
SUBJECT SAMPLE (Vol=2.08L)	0.000	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.080	11:19
BLANK TEST	0.000	11:20

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