

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100377

Analyst/Technician(s): Kaija Swisher

Start Date: 5/29/24

Supervised casework with Derek Walton

Date Instrument Received: 5/28/24

DJSW 06/18/2024

Reason for instrument evaluation

Instrument repair - intox. filter wheel issues / unable to upload.

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
- Attach VOC
- VOC Internal Standard $\leq 3.00\%$
- Verify software version

Condition of item: No apparent damage Damaged

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): (22a)

Barometric Pressure (inHg): 29.66 Temperature (C): 21.6 Relative Humidity (%) 31

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

Notes: Reset options. O-Ring replaced.

No filter wheel issues encountered during evaluation. KS 06/18/2024.

Attach Non-Drinking Subject Test

Conclusion:

- Ready for Adjustment
- Needs Repair
- Ready for Calibration

Lab Work End Date: 5/29/24

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100377

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/29/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.73: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1001 psi

BLANK TEST	0.000	08:02
INTERNAL STANDARD	VERIFIED	08:02
Xq = 0.086 (0.70%)		
EXTERNAL STANDARD	0.080	08:02
X[1] = 0.0801 (-0.0011) (-0.0003)		
BLANK TEST	0.000	08:03
EXTERNAL STANDARD	0.080	08:03
X[1] = 0.0799 (-0.0012) (-0.0010)		
BLANK TEST	0.000	08:04
EXTERNAL STANDARD	0.080	08:04
X[1] = 0.0801 (-0.0016) (-0.0008)		
BLANK TEST	0.000	08:05
EXTERNAL STANDARD	0.080	08:05
X[1] = 0.0799 (-0.0015) (-0.0009)		
BLANK TEST	0.000	08:06
EXTERNAL STANDARD	0.081	08:06
X[1] = 0.0805 (-0.0011) (-0.0002)		
BLANK TEST	0.000	08:07

Average = 0.0802
Std Dev = 0.0004

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 = 46.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.73 V	PASSED
(1.04 V - 2.42 V)	
Cooler Voltage = 1.61 V	PASSED
(0.97 V - 2.25 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 523 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 5.715 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 = 0.085 1.70% (0.00% - 4.00%)	

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100377

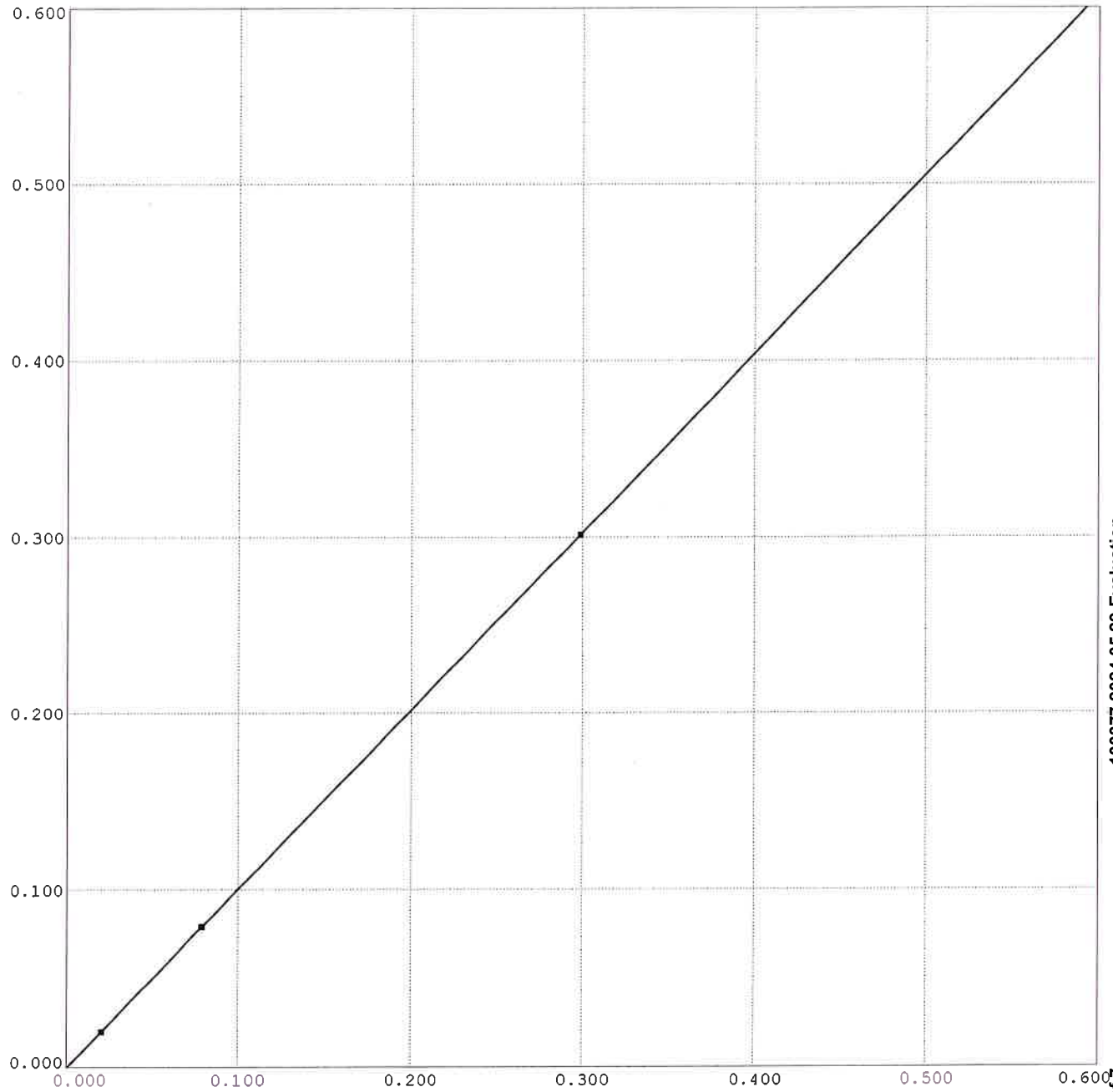
Date: 05/29/2024
Time: 08:09:59

SUPERVISOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

TARGET	AVERAGE	STD. DEV.
0.020	0.0204	0.0005
0.079	0.0800	0.0007
0.298	0.3020	0.0000

SLOPE = 1.013154
R² = 1.000000

KS



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100377

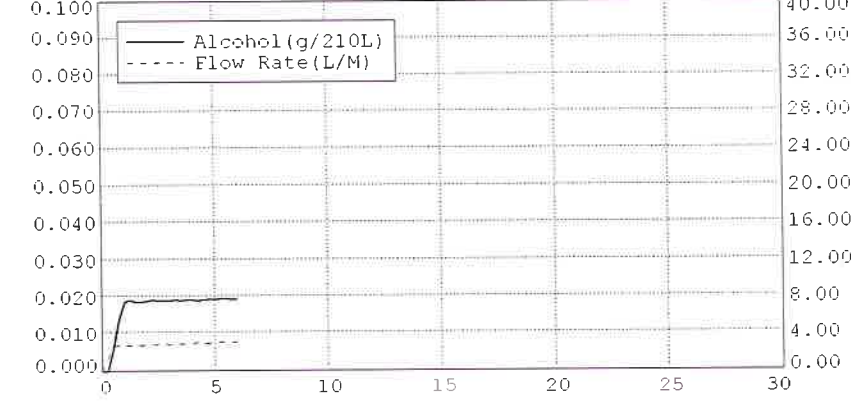
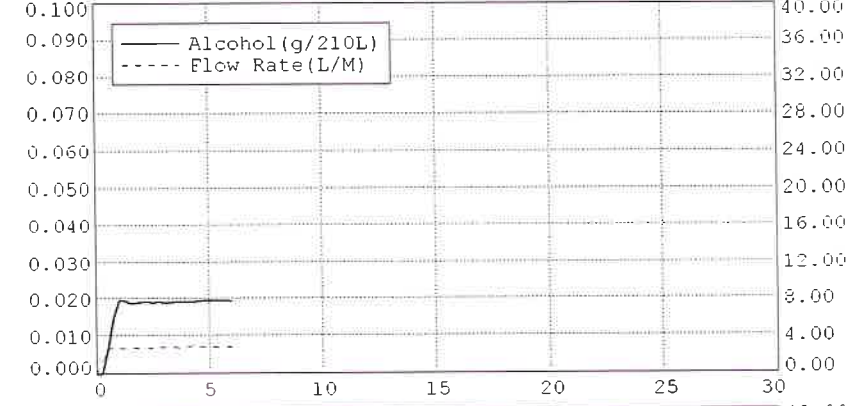
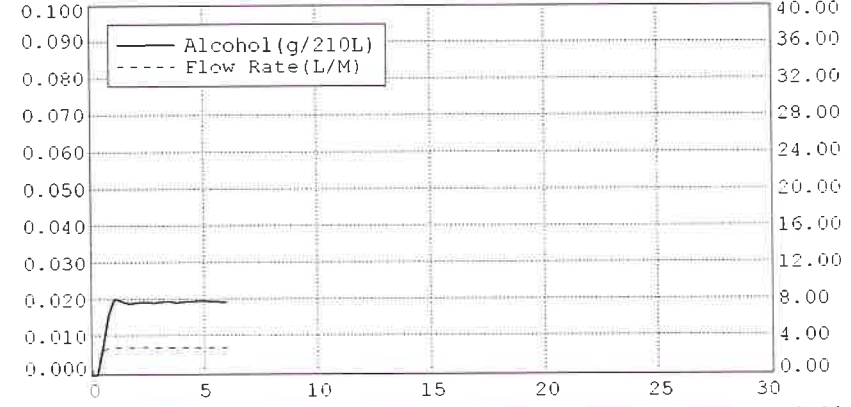
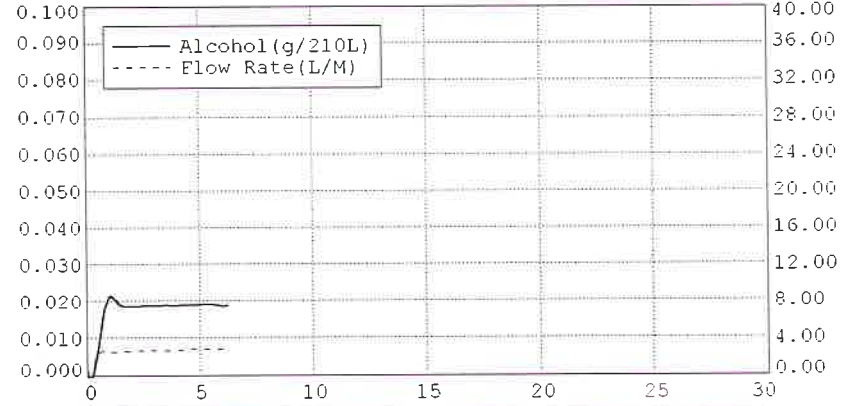
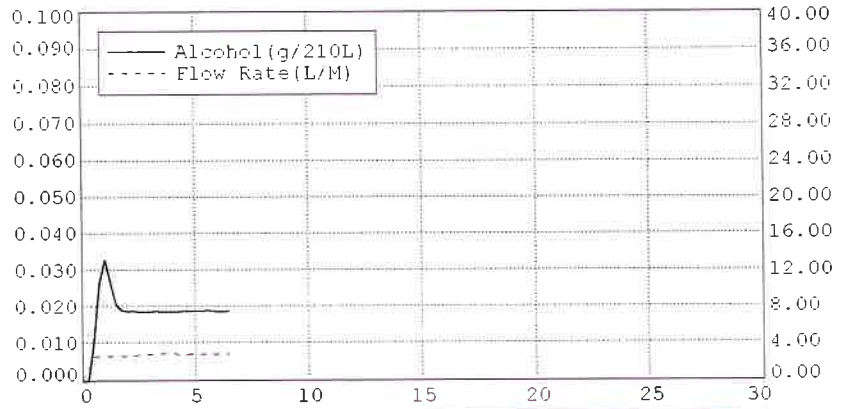
Date: 05/29/2024
 Time: 08:10:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.73: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 375 psi

BLANK TEST	0.000	08:11
INTERNAL STANDARD	VERIFIED	08:11
EXTERNAL STANDARD	0.020	08:11
BLANK TEST	0.000	08:12
EXTERNAL STANDARD	0.020	08:13
BLANK TEST	0.000	08:13
EXTERNAL STANDARD	0.021	08:14
BLANK TEST	0.000	08:15
EXTERNAL STANDARD	0.021	08:15
BLANK TEST	0.000	08:16
EXTERNAL STANDARD	0.020	08:16
BLANK TEST	0.000	08:17

Average = 0.0204
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100377

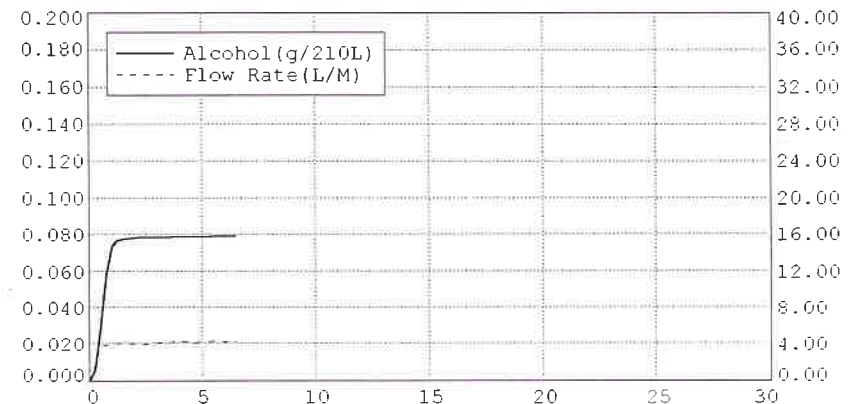
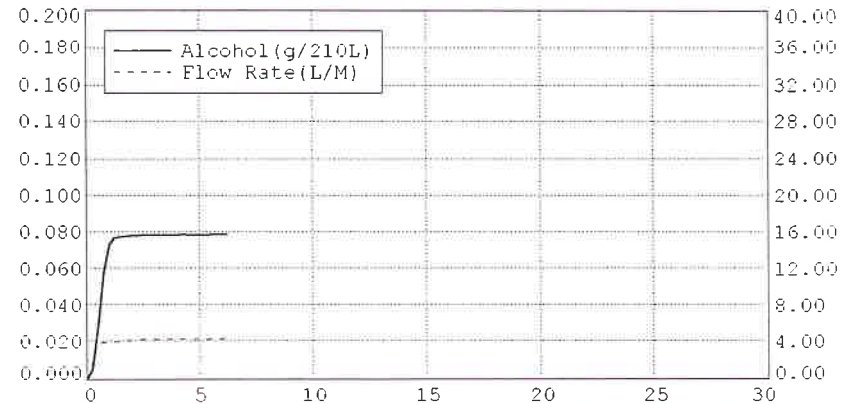
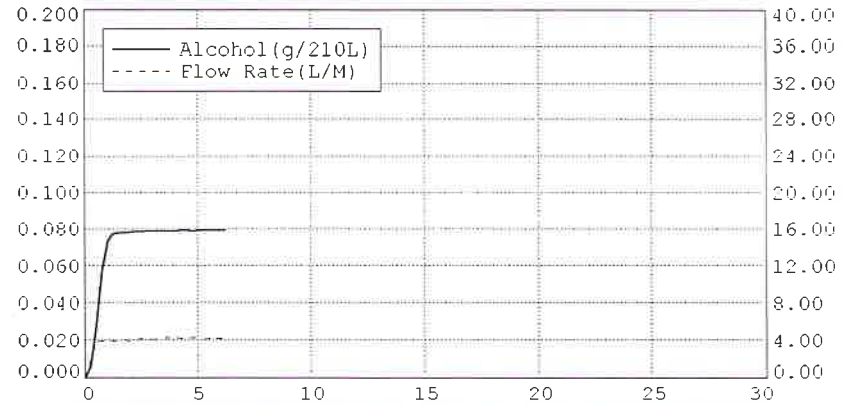
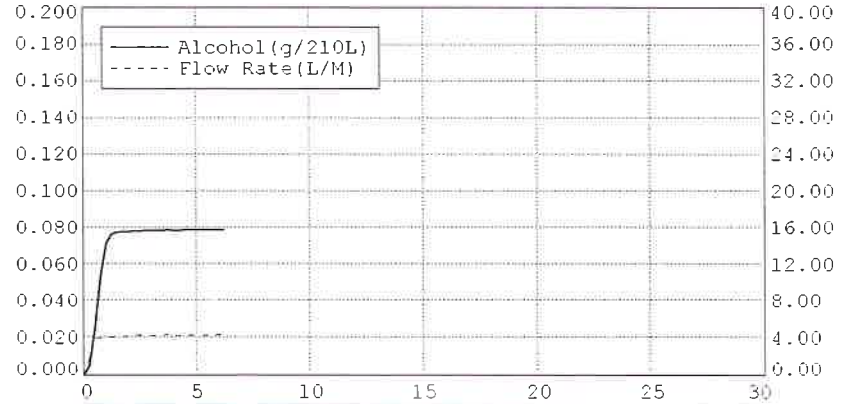
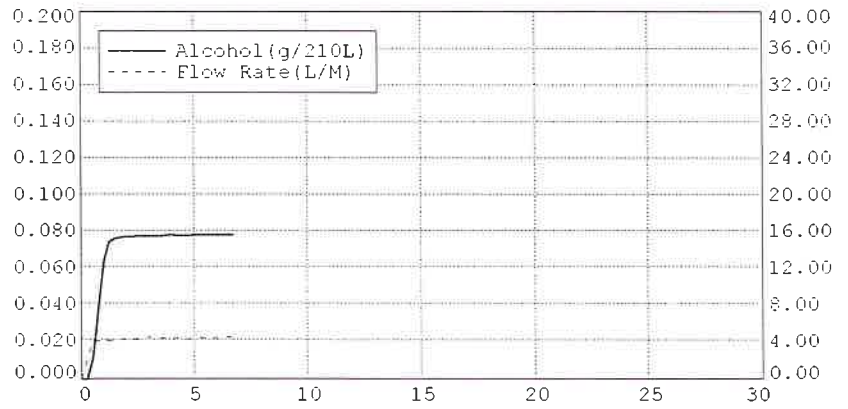
Date: 05/29/2024
 Time: 08:22:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.73: 0.079
 LOT #: AG335202
 EXPIRATION: 12/18/2025
 TANK PRESSURE: 963 psi

BLANK TEST	0.000	08:24
INTERNAL STANDARD	VERIFIED	08:25
EXTERNAL STANDARD	0.079	08:25
BLANK TEST	0.000	08:26
EXTERNAL STANDARD	0.080	08:26
BLANK TEST	0.000	08:27
EXTERNAL STANDARD	0.081	08:27
BLANK TEST	0.000	08:28
EXTERNAL STANDARD	0.080	08:28
BLANK TEST	0.000	08:29
EXTERNAL STANDARD	0.080	08:29
BLANK TEST	0.000	08:30

Average = 0.0800
 Std Dev = 0.0007



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100377

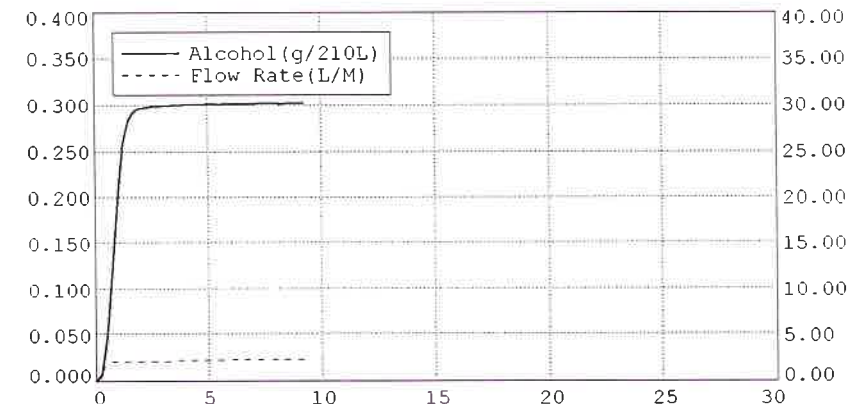
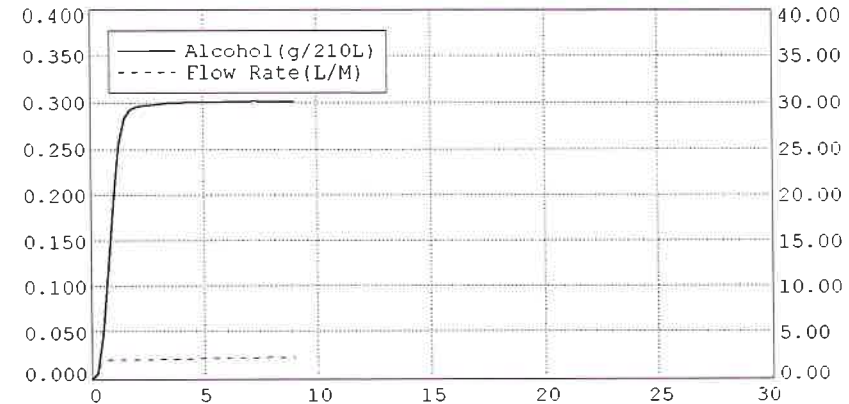
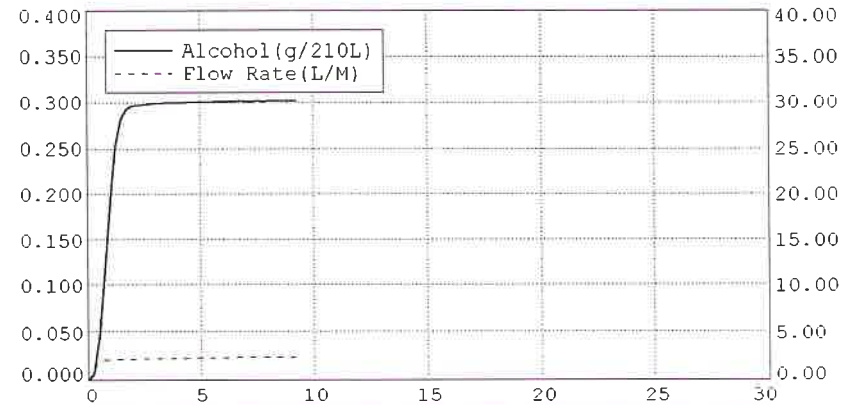
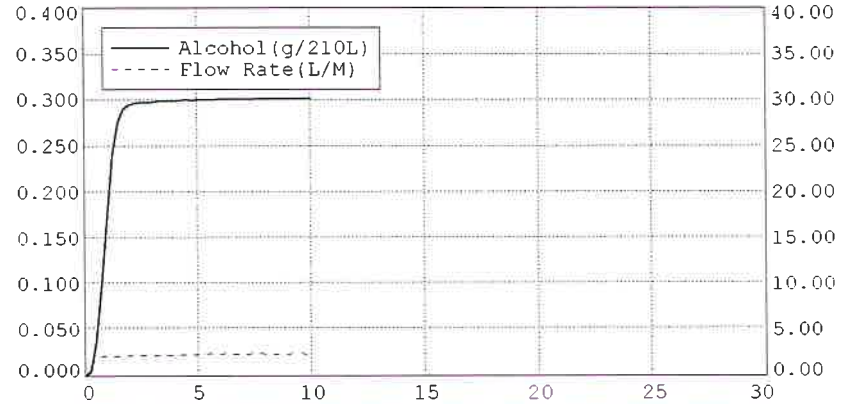
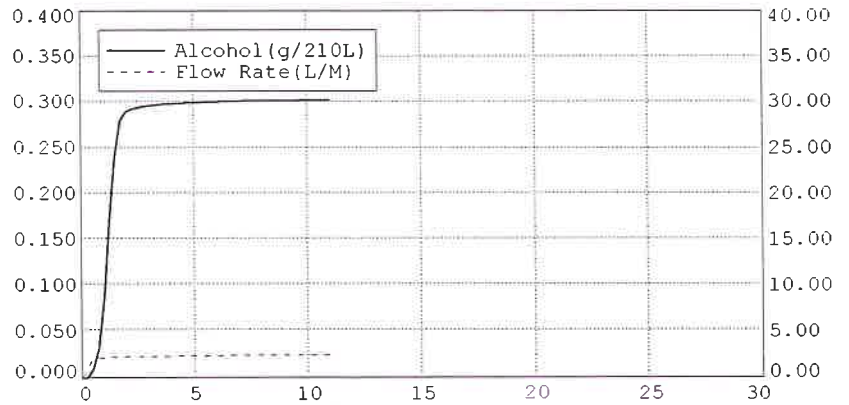
Date: 05/29/2024
 Time: 08:31:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.72: 0.298
 LOT #: AG327804
 EXPIRATION: 10/05/2025
 TANK PRESSURE: 188 psi

BLANK TEST	0.000	08:33
INTERNAL STANDARD	VERIFIED	08:33
EXTERNAL STANDARD	0.302	08:33
BLANK TEST	0.000	08:34
EXTERNAL STANDARD	0.302	08:34
BLANK TEST	0.000	08:35
EXTERNAL STANDARD	0.302	08:36
BLANK TEST	0.000	08:37
EXTERNAL STANDARD	0.302	08:37
BLANK TEST	0.000	08:38
EXTERNAL STANDARD	0.302	08:38
BLANK TEST	0.000	08:39

Average = 0.3020
 Std Dev = 0.0000



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 05/29/2024
Time: 08:44:27

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME: Lot # AG335202
KAIJA SWISHER Expiration: 12/18/2025
OPERATOR'S #: 10746 KS 6/18/2024

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079

DIAGNOSTIC CHECK	PASSED	08:45
BLANK TEST	0.000	08:45
INTERNAL STANDARD	VERIFIED	08:45
EXTERNAL STANDARD	0.082	08:45
BLANK TEST	0.000	08:46
SUBJECT SAMPLE (Vol=2.39L)	0.000	08:47
BLANK TEST	0.000	08:48
EXTERNAL STANDARD	0.081	08:48
BLANK TEST	0.000	08:49

KS

