

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100342

Analyst/Technician(s): Kaija Swisher

Start Date: 5/28/24

Supervised casework with Derek Walton

Date Instrument Received: ~~5/24/24~~ 05/28/2024
KS 07/02/2024

DJW 06/14/2024

Subject - KS 6/18/24

Reason for instrument evaluation

Pump error, signal interference, internal standard error - new ins. rec. from in field instrument review.

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 | | |
| <input checked="" type="checkbox"/> Attach VOC | <input checked="" type="checkbox"/> VOC Internal Standard \leq 3.00% | <input checked="" type="checkbox"/> 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): 230307229

Barometric Pressure (inHg): 29.61 Temperature (C): 21.5 Relative Humidity (%) 39

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

Notes: Replaced O-Ring.

Attach Non-Drinking Subject Test

Conclusion:

Ready for Adjustment Needs Repair

~~Ready for Calibration~~ After reviewing data, an adjustment is needed. KS 6/18/24

Lab Work End Date: 5/28/24

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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 #: 100342

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/28/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1069 psi

BLANK TEST	0.000	10:58
INTERNAL STANDARD	VERIFIED	10:58
Xq = 0.085 (2.75%)		
EXTERNAL STANDARD	0.078	10:58
X[1] = 0.0778 (-0.0025) (0.0029)		
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.078	10:59
X[1] = 0.0782 (-0.0020) (0.0016)		
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.078	11:00
X[1] = 0.0779 (-0.0025) (0.0020)		
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.078	11:01
X[1] = 0.0781 (-0.0018) (0.0013)		
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.078	11:02
X[1] = 0.0783 (-0.0022) (0.0018)		
BLANK TEST	0.000	11:03

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.65 V	PASSED
(0.99 V - 2.31 V)	
Cooler Voltage = 1.61 V	PASSED
(0.97 V - 2.25 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 525 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.237 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.003 V <= 0.010 V)	
PUMP OFF	PASSED
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.084	2.22%	(0.00% - 4.00%)	PASSED
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Lot # AG335202
Expiration: 12/18/2025
KS 6/18/2024

LINEARITY CHECK

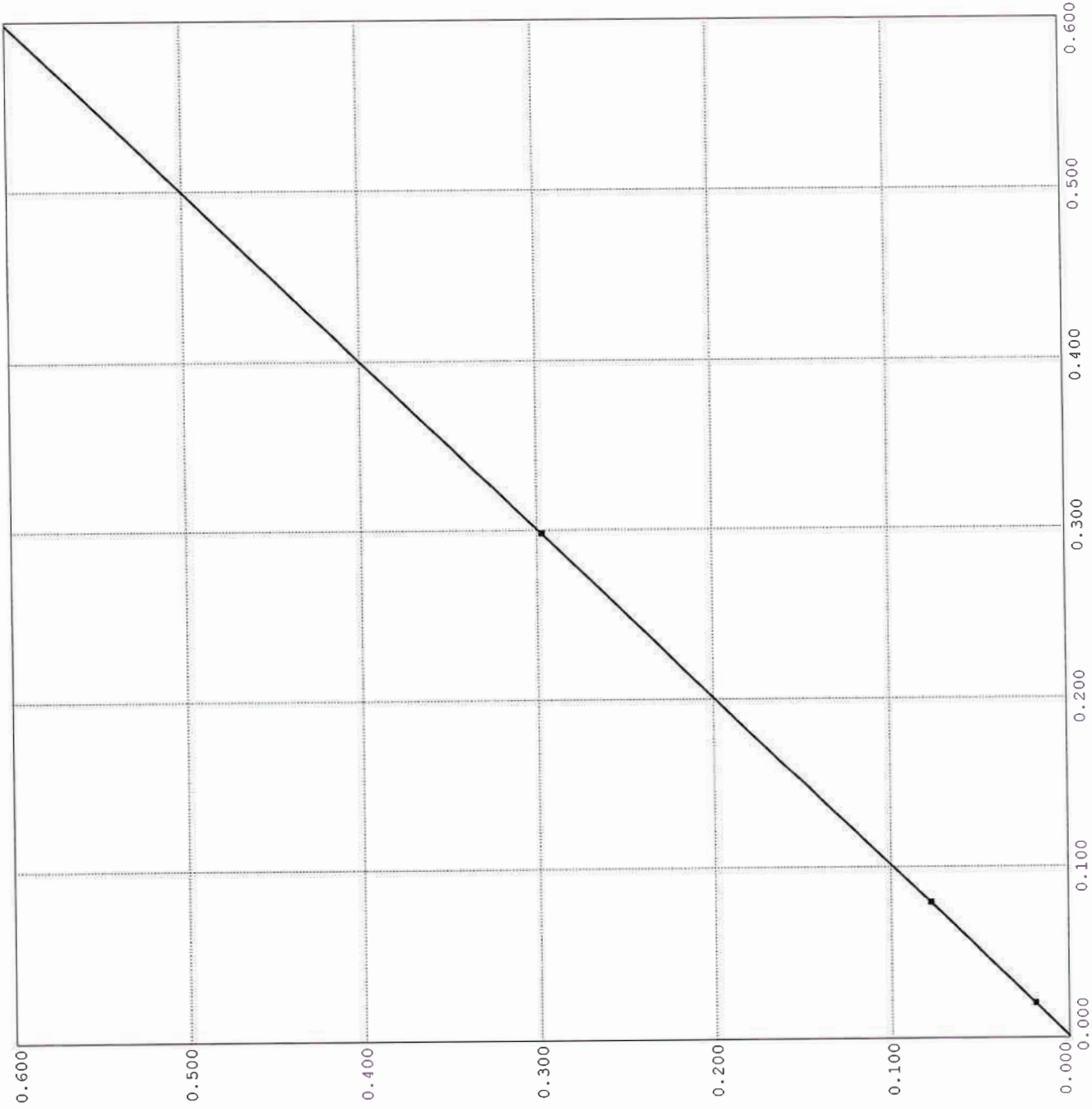
 Alaska Department of Public Safety
 DATAMASTER dmt: 100342

Date: 05/28/2024
 Time: 11:06:53

SUPERVISOR NAME:
 KAIJA SWISHER
 OPERATOR'S #: 10746

TARGET	AVERAGE	STD. DEV.
0.020	0.0194	0.0005
0.079	0.0786	0.0005
0.297	0.2978	0.0004

SLOPE = 1.005176
 R² = 1.000000



KS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100342

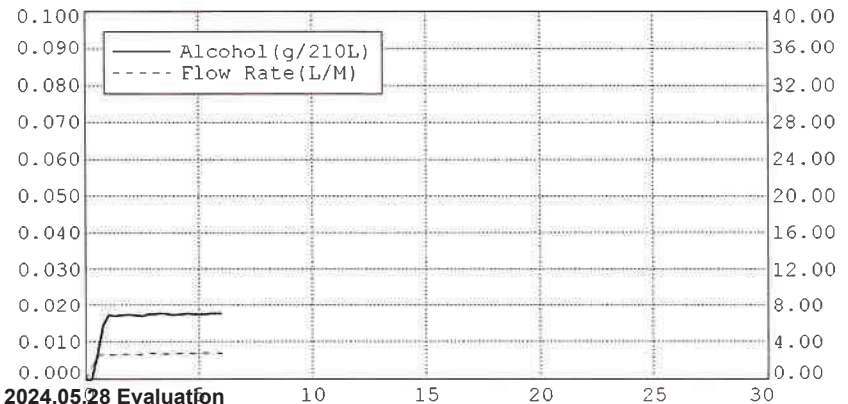
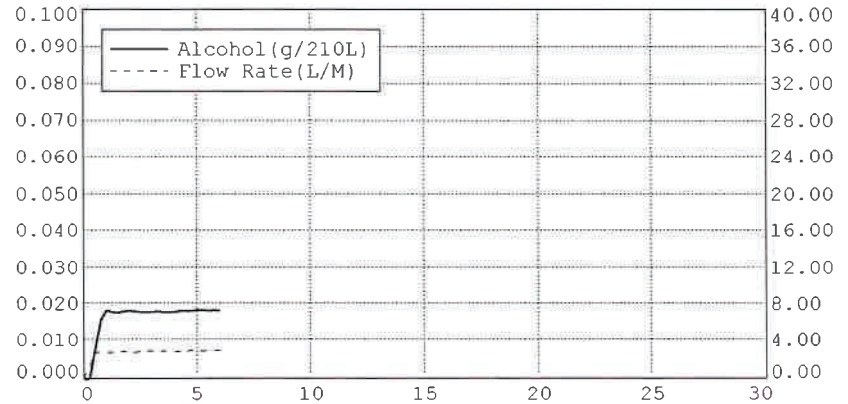
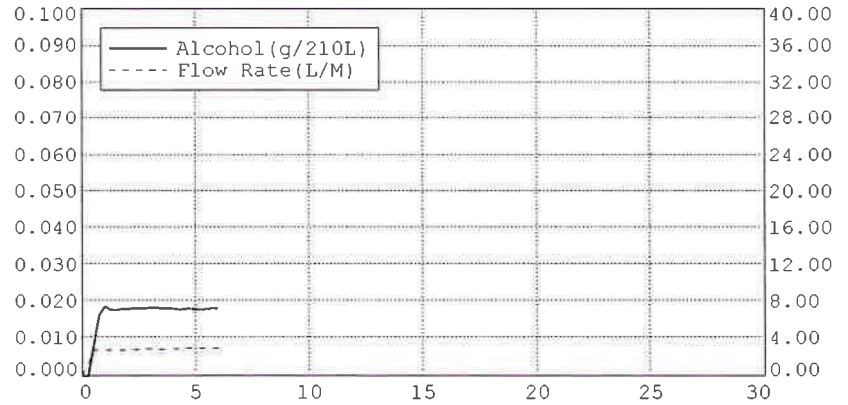
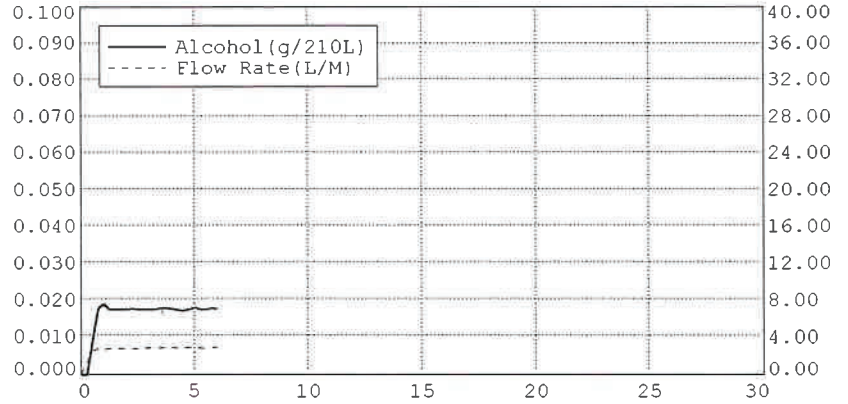
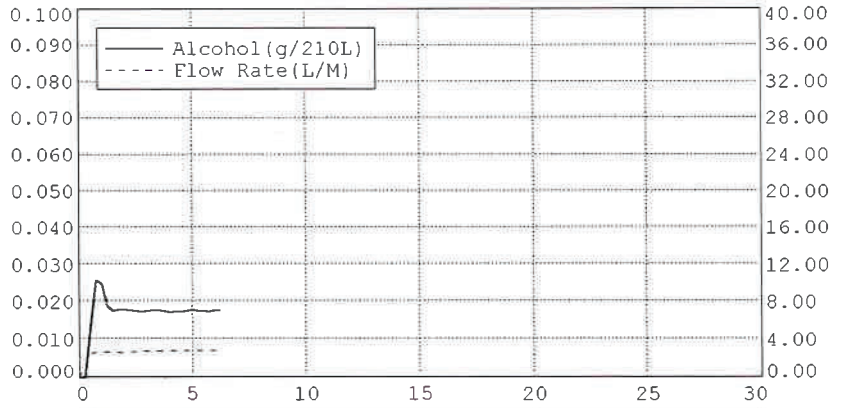
Date: 05/28/2024
Time: 11:06:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.65: 0.020
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 398 psi

BLANK TEST	0.000	11:08
INTERNAL STANDARD	VERIFIED	11:08
EXTERNAL STANDARD	0.019	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.019	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.020	11:11
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.020	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.019	11:13
BLANK TEST	0.000	11:14

Average = 0.0194
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

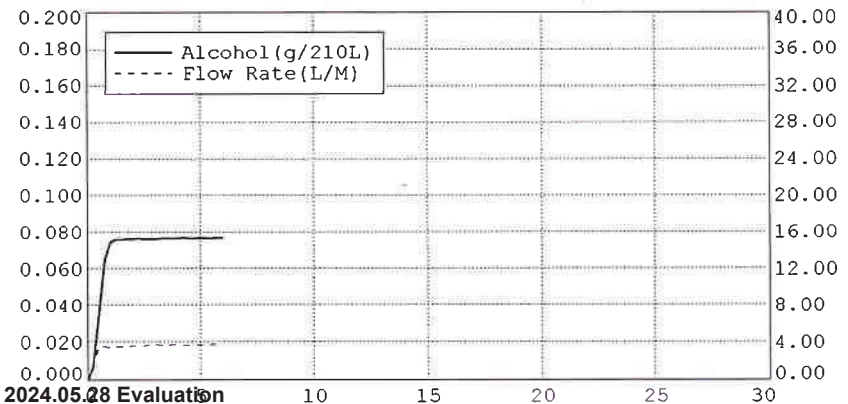
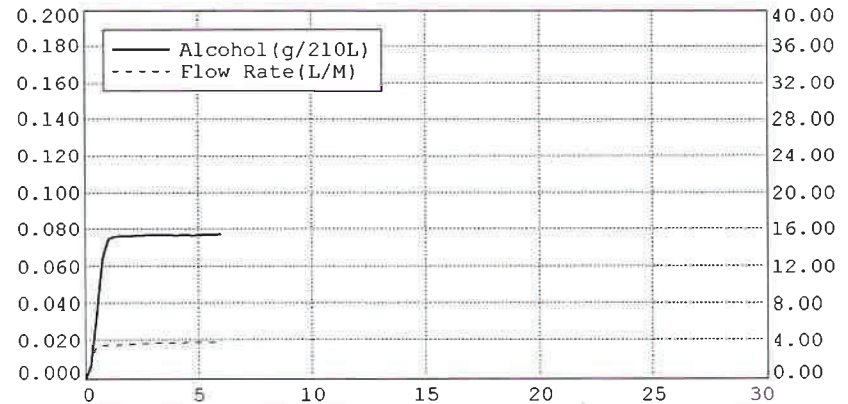
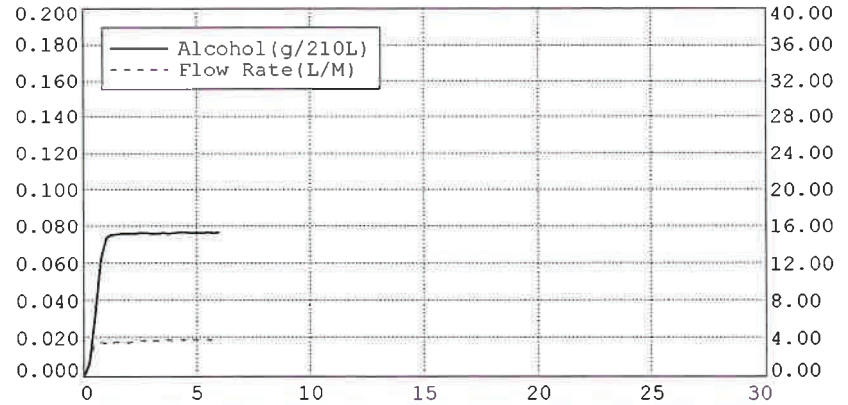
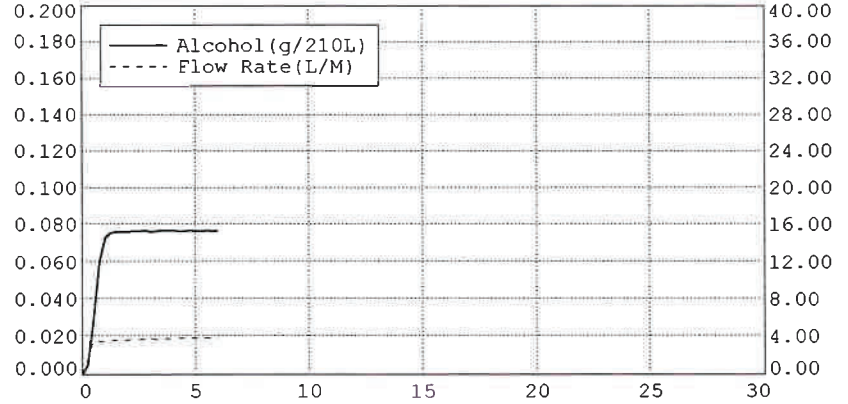
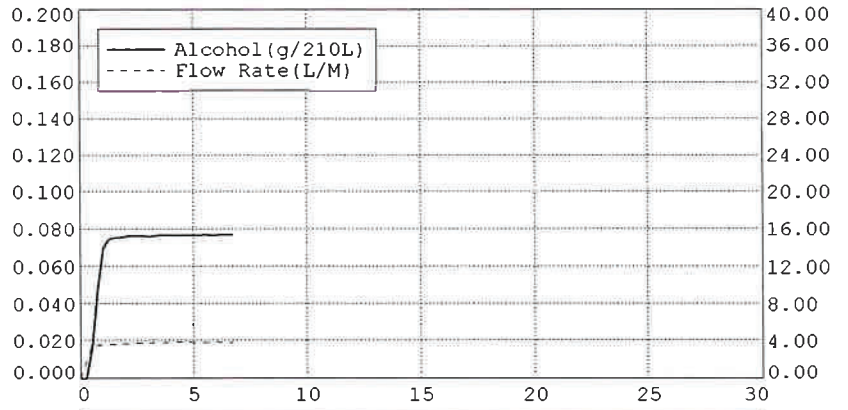
Date: 05/28/2024
 Time: 11:15:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.64: 0.079
 LOT #: AG335202
 EXPIRATION: 12/18/2025
 TANK PRESSURE: 1041 psi

BLANK TEST	0.000	11:17
INTERNAL STANDARD	VERIFIED	11:17
EXTERNAL STANDARD	0.079	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.078	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.078	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.079	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.079	11:21
BLANK TEST	0.000	11:22

Average = 0.0786
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

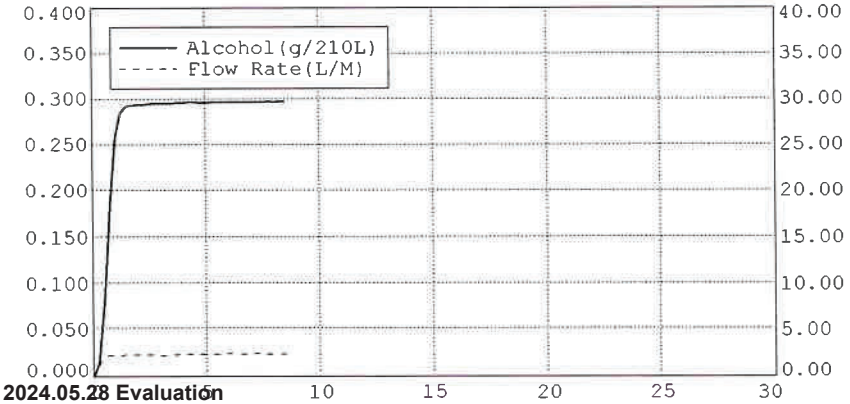
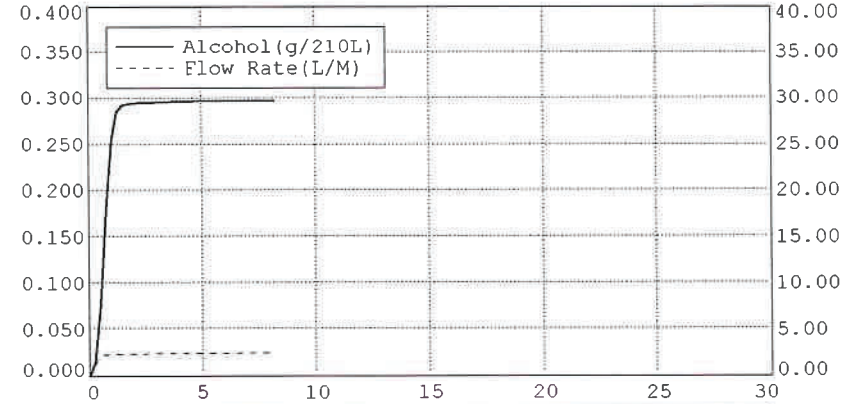
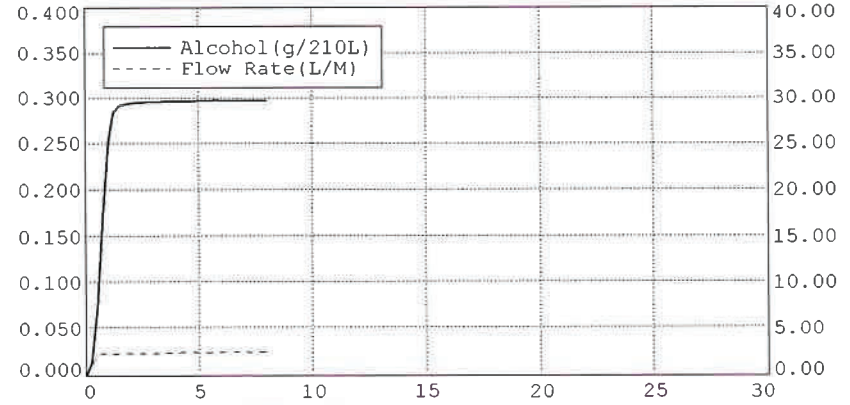
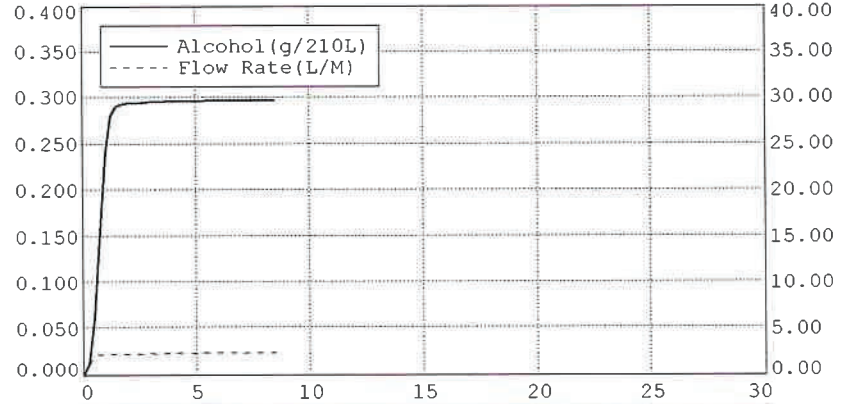
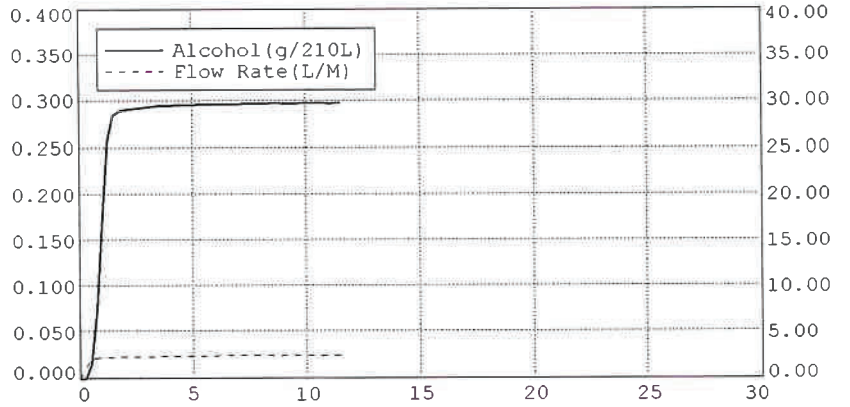
Date: 05/28/2024
 Time: 11:23:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.64: 0.297
 LOT #: AG327804
 EXPIRATION: 10/05/2025
 TANK PRESSURE: 214 psi

BLANK TEST	0.000	11:25
INTERNAL STANDARD	VERIFIED	11:25
EXTERNAL STANDARD	0.298	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.297	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.298	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.298	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.298	11:30
BLANK TEST	0.000	11:30

Average = 0.2978
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100342

Date: 05/28/2024

Time: 13:59:02

8

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 29.65: 0.079

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

PASSED 14:00

0.000

ERROR 14:00

Internal Standard Error

Lot # AG335202
Expiration: 12/18/2025
KS 6/18/2024

KS

SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100342

Date: 05/28/2024

Time: 14:02:00

8

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 29.65: 0.079

DIAGNOSTIC CHECK	PASSED	14:03
BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.079	14:03
BLANK TEST	0.000	14:04
SUBJECT SAMPLE (Vol=1.54L)	0.000	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.079	14:05
BLANK TEST	0.000	14:06

Lot # AG335202
Expiration: 12/18/2025
KS 6/18/2024

KS

