



State of Alaska
 Department of Public Safety
Scientific Crime Detection Laboratory

4805 Dr. Martin Luther King Jr. Ave.
 Anchorage, Alaska 99507
 David Kanaris, Chief, Forensic Laboratories

Breath Alcohol Calibration Report
Calibration Item: DataMaster DMT
Serial Number: 100405

Report Issue Date: 12/12/2023
Date Received: 2023-10-17
Condition of Item: Good

Method Used: DataMaster DMT Calibration / Current Breath Alcohol Procedure Manual
Calibration Range: 0.020 g/210L - 0.300 g/210L

No As-Found Data Collected

Diagnostic failed. Internal standard error. Unable to perform as-found. Recommend adjustment.

Start Date 11/30/2023 - As Left - End Date 12/04/2023

As Left Conditions - Barometric Pressure (inHg): 28.83 Barometer Used: Fisher S/N 221250180 Temperature (C): 22.3 Relative Humidity (%): 19

As-Left Data

Nominal Values (g/210L)	Target Values (g/210L)	Lot Number	Results (g/210L)					Mean (g/210L)	Uncertainty (g/210L)
0.020	0.019	AG217902	0.020	0.019	0.019	0.019	0.019	0.019	+/- 0.002
0.040	0.039	AG217904	0.039	0.038	0.039	0.039	0.038	0.039	+/- 0.003
0.080	0.077	09523080A1	0.078	0.078	0.078	0.077	0.078	0.078	+/- 0.004
0.100	0.096	AG211003	0.096	0.097	0.097	0.098	0.096	0.097	+/- 0.004
0.150	0.145	AG134205	0.147	0.145	0.146	0.146	0.146	0.146	+/- 0.005
0.300	0.289	AG217903	0.293	0.292	0.292	0.293	0.293	0.293	+/- 0.011

Calibration is performed using dry gas standards traceable to NIST. Standards are sourced from an external provider accredited to ISO/IEC 17025 and ISO 17034 standards. Internal instrument barometer readings are traceable to NIST. External barometers are calibrated by an external calibration provider accredited to the ISO/IEC 17025 standard.

The As-Left results listed above include the estimated measurement uncertainty with a coverage factor k=2 and an expanded coverage probability of 95%. The estimated uncertainty applies to the calibration process and not to subject breath samples.

This report applies only to the item being calibrated and shall not be reproduced, except in full, without written approval from the laboratory.

Results authorized by Carlie Glaister on 12/04/2023

carlie.glaister@alaska.gov

Technically and administratively reviewed by Colleen O'Bryant on 12/12/2023

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100405 Analyst: Charlie Haister Start Date: 11/30/23

- Diagnostic Test (attached)
- Adjust voltages, if needed
 - Lamp (2.60 V Maximum)
 - Bias
 - Cooler (2.00 V Maximum)
- Internal Standard value \leq 3.00%
 - Chopper Frequency
 - Detector Voltage (-0.100V to 0.100V)
- Set RFI Sensitivity
- Adjust internal barometer reading to match NIST-traceable barometer
- Adjust volume setting, if needed (1.50 L +/- 0.10 L)
- Print Technician Screen (attached)
- Print Calibration Factors (attached)
- Minimum Volume Test 1.5 L (1.3L to 1.7L)

As Left Conditions:

Barometric Pressure (in Hg): 29.83 Temperature (C): 22.3 Relative Humidity (%) 19

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: AG-217902 Exp: 6/28/24
0.040g/210L Mnf: Airgas Lot: AG-217904 Exp: 6/28/24
mnf: ILMO 0.080g/210L Mnf: Airgas Lot: 09523080A1 Exp: 5/5/25
0.100g/210L Mnf: Airgas Lot: AG-211003 Exp: 4/20/24
0.150g/210L Mnf: Airgas Lot: AG-134205 Exp: 12/8/23
0.300g/210L Mnf: Airgas Lot: AG-217903 Exp: 6/28/24

Functional Tests (attached)

- Incomplete
 - Maximum Attempts Exceeded
 - Interference (Volatiles)
 - Invalid
 - Radio Frequency Interference (RFI)
- Acetone Mnf: Lifloc Lot: 22HP41201 Level: 0.100 Exp: 8/24/24
Simulator S/N: DR4176 Verification Performed?
- Isopropanol Mnf: Lifloc Lot: 22HP41201 Level: 0.100 Exp: 8/24/24
Simulator S/N: DR4177 Verification Performed?
- Neg. Control Mnf: Lifloc Lot: 22HP41201 Level: 0.100 Exp: 8/24/24
Simulator S/N: DR6267 Verification Performed?

Calibrated External Thermometer:

Thermometer S/N: 230631106 Calibration Due Date: 9/19/2025

- Verify stylus is calibrated
 - Reset Options
 - Clear Memory
 - Verification of Calibration (VOC)
 - Non-Drinking Subject Test
 - Upload
 - Remove Tank Prior to Shutdown
- Calibration End Date: 12/1/23

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 11/30/2023
Time: 11:42:09

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.0°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.69 V PASSED
(1.01 V - 2.37 V)
Cooler Voltage = 1.74 V PASSED
(1.04 V - 2.44 V)
Bias Voltage = 81 V PASSED
(49 V - 113 V)
Chopper Freq = 513 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 28.8 in

PUMP INFO

Flow Rate = 4.994 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
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.088 0.40% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100405

Date: 11/30/2023
Time: 11:46 AM

Temperatures (°C)
Sample Cell: 48.8°C
Breath Tube: 47.3°C

Current Barometer 28.8 in
Volume (Ltr) 1.57

Settings
Lamp: 1.74 V
Bias: 81 V
Cooler: 1.74 V
Chopper: 514 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.003 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 11/07/2023
Time: 08:56:27

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.991429 0.800 <= CAL < 1.200
b1 = 0.0007 0.0000 <= b1 < 0.0040
b2 = 0.0047 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.0882 0.0500 <= Xq < 0.2000
a21 = 1.105304 1.050 <= a21 < 1.300
a31 = 0.485640 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100405

Date: 11/30/2023

Time: 11:47:34

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

CARLIE GLAISTER

OPERATOR'S #: 10436

DEPT/AGENCY:

MINIMUM VOLUME TEST

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

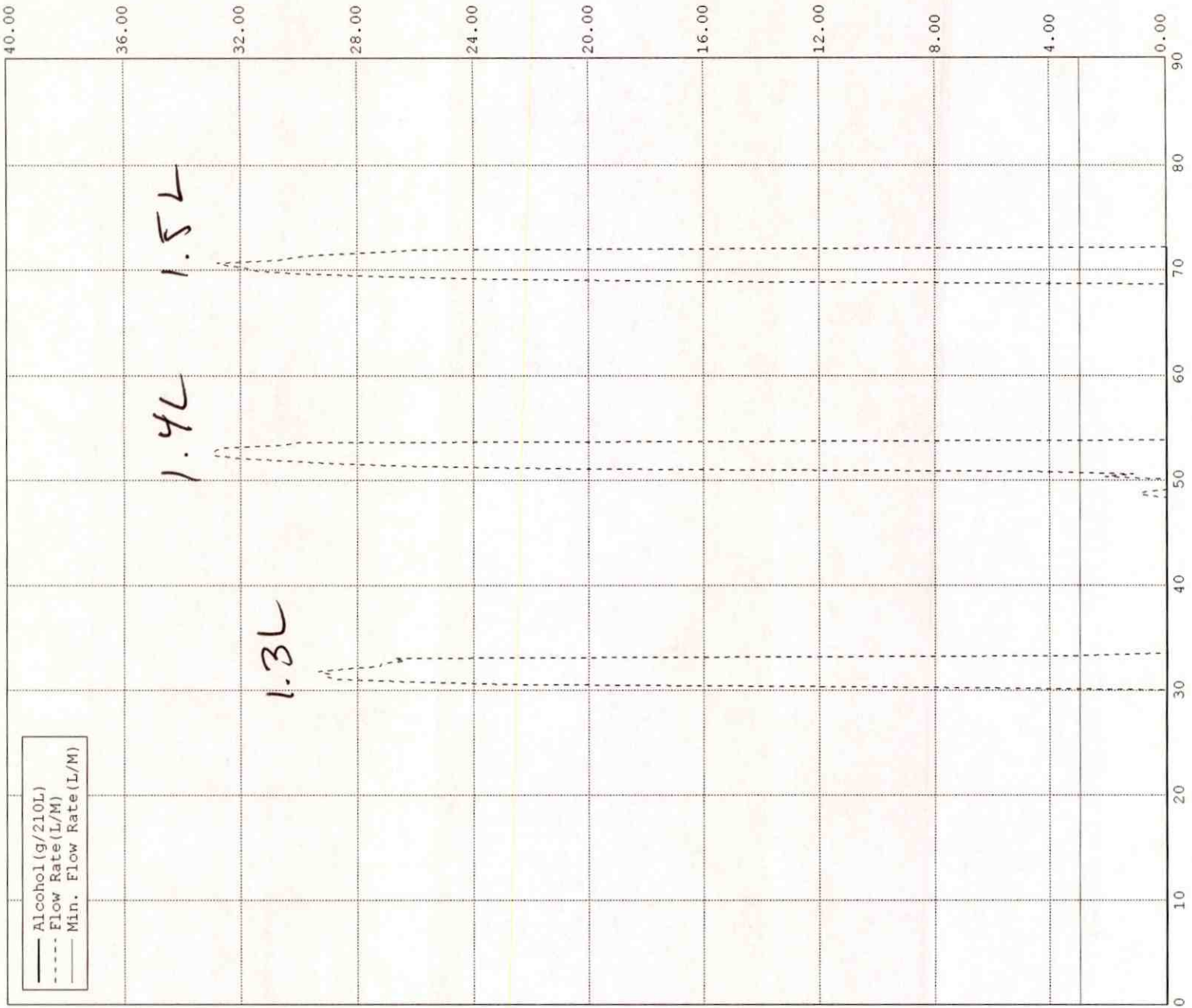
TARGET AT 28.82: 0.077

LOT #: 09523080A1

EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	11:48
BLANK TEST	0.000	11:48
INTERNAL STANDARD	VERIFIED	11:49
EXTERNAL STANDARD	0.077	11:49
BLANK TEST	0.000	11:50
SUBJECT SAMPLE (Vol=1.55L)	0.000	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.077	11:52
BLANK TEST	0.000	11:53

CKG



LINEARITY CHECK

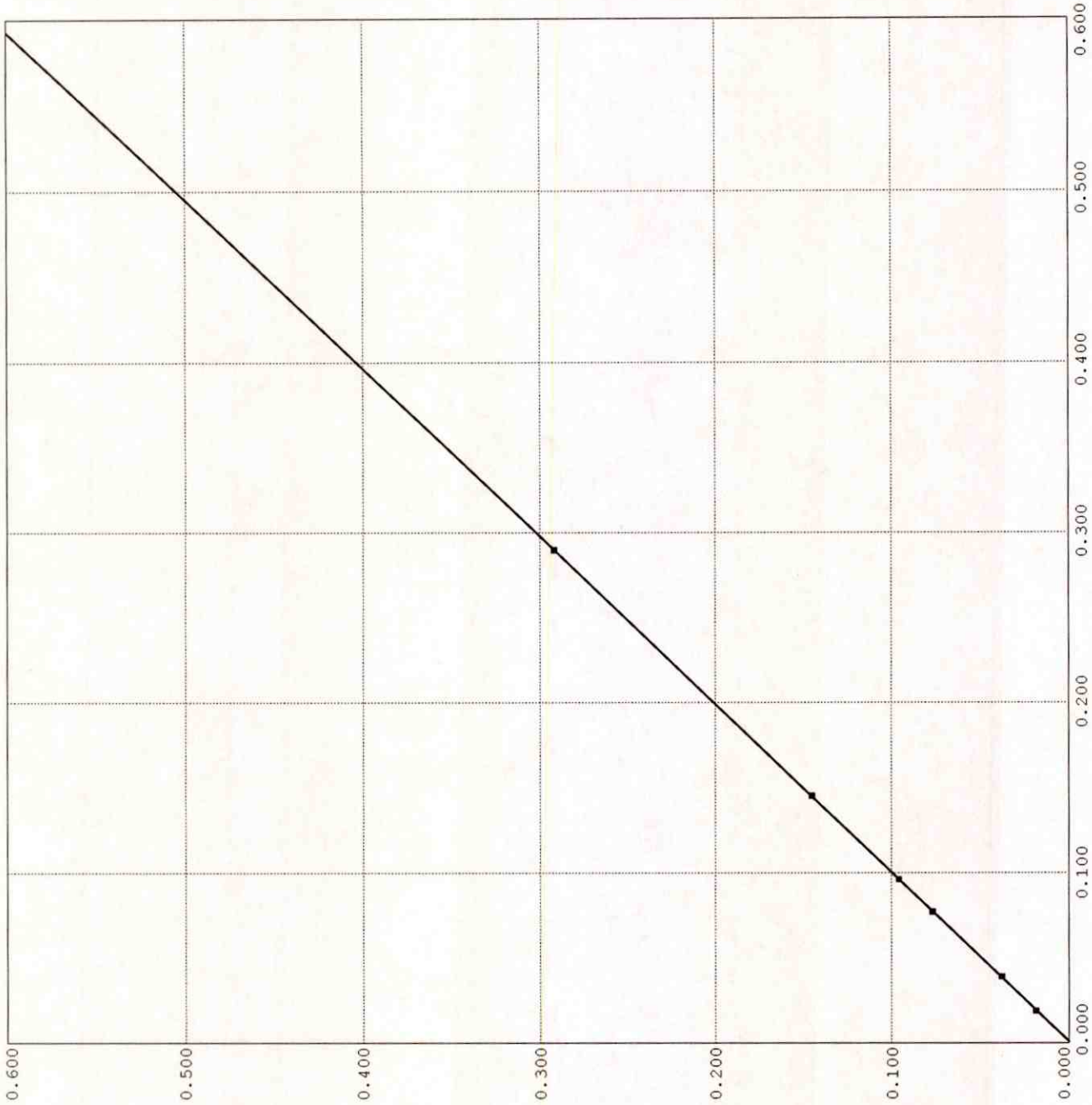
 Alaska Department of Public Safety
 DATAMASTER dmt: 100405

Date: 11/30/2023
 Time: 12:13:57

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0192	0.0004
0.039	0.0386	0.0005
0.077	0.0778	0.0004
0.096	0.0968	0.0008
0.145	0.1460	0.0007
0.289	0.2926	0.0005

SLOPE = 1.013516
 R² = 0.999986



CKG

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100405

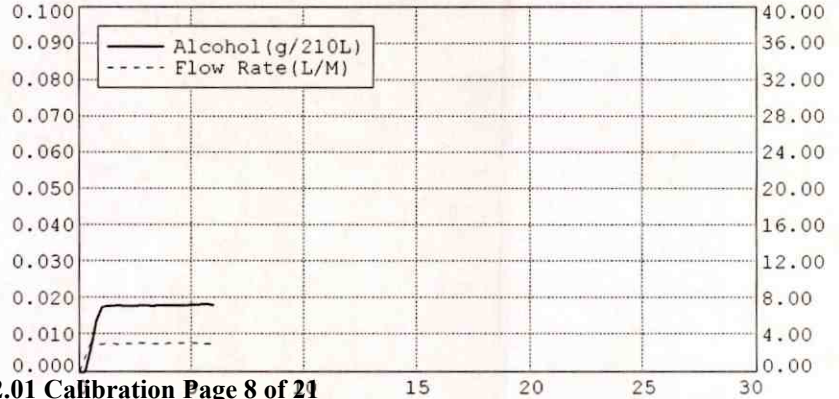
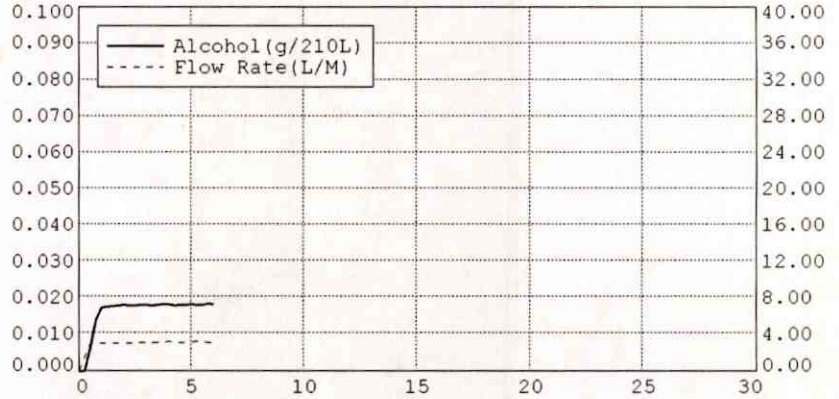
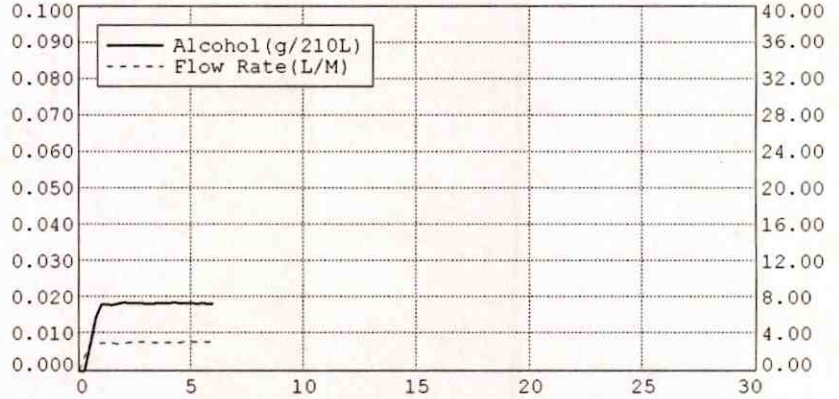
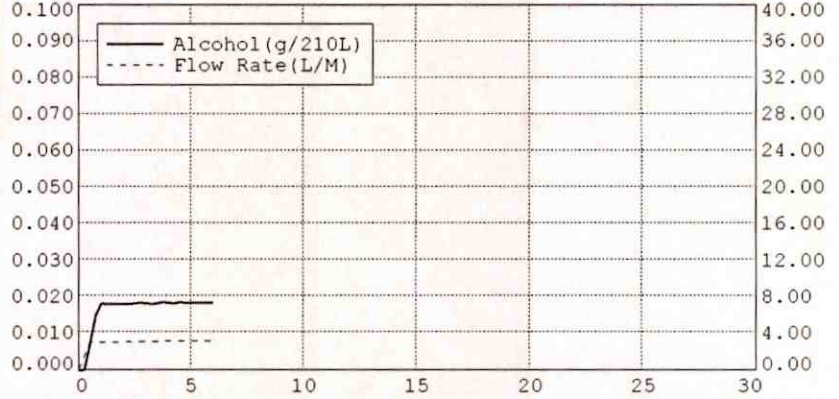
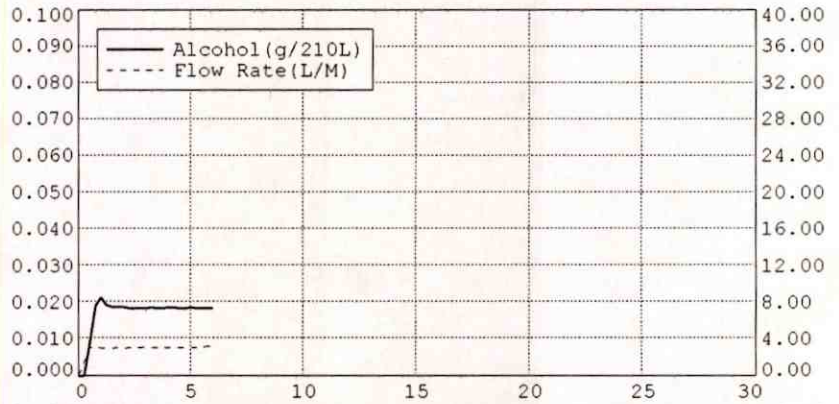
Date: 11/30/2023
Time: 12:13:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 28.83: 0.019
LOT #: AG217902
EXPIRATION: 06/28/2024
TANK PRESSURE: 674 psi

BLANK TEST	0.000	12:15
INTERNAL STANDARD	VERIFIED	12:15
EXTERNAL STANDARD	0.020	12:15
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.019	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.019	12:18
BLANK TEST	0.000	12:18
EXTERNAL STANDARD	0.019	12:19
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.019	12:20
BLANK TEST	0.000	12:21

Average = 0.0192
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100405

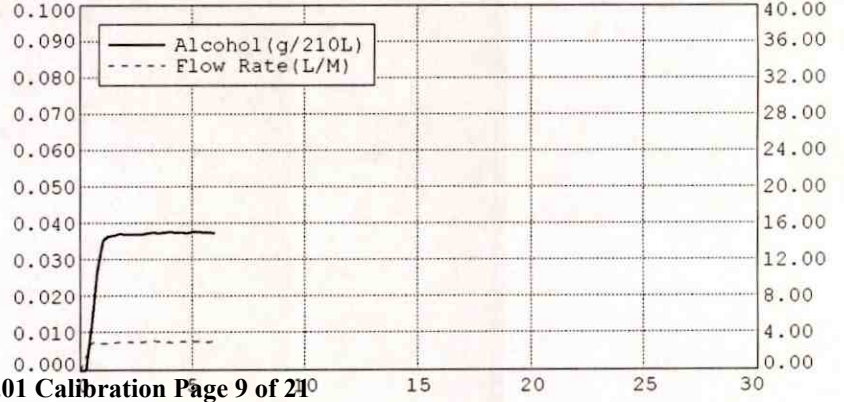
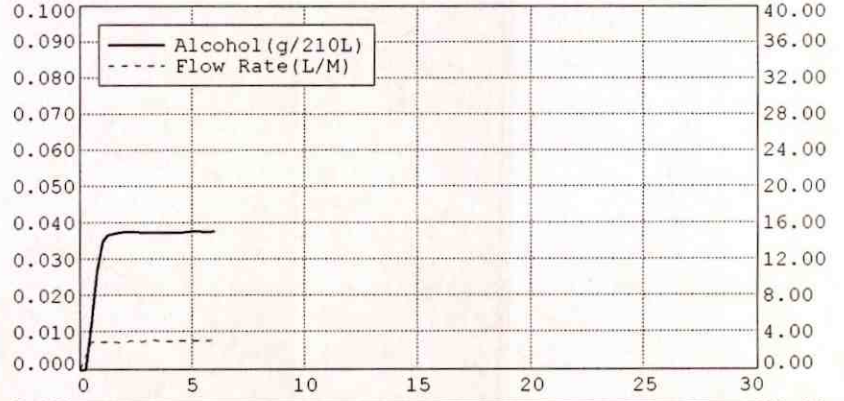
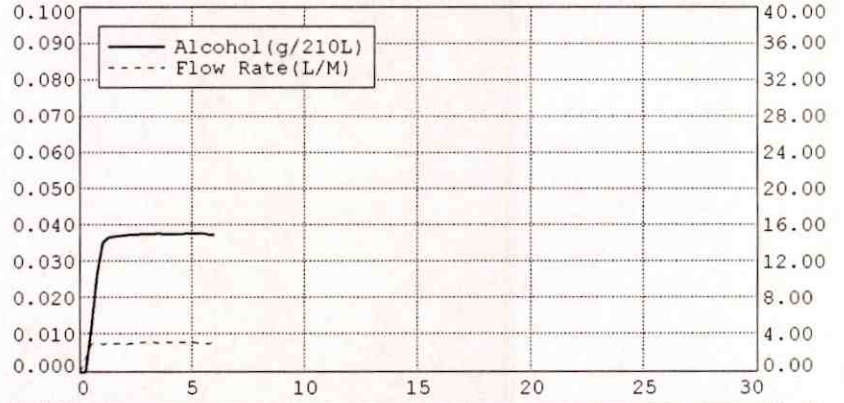
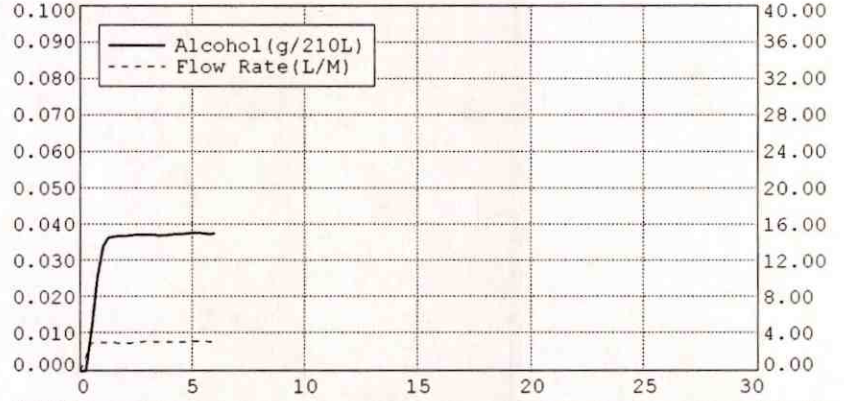
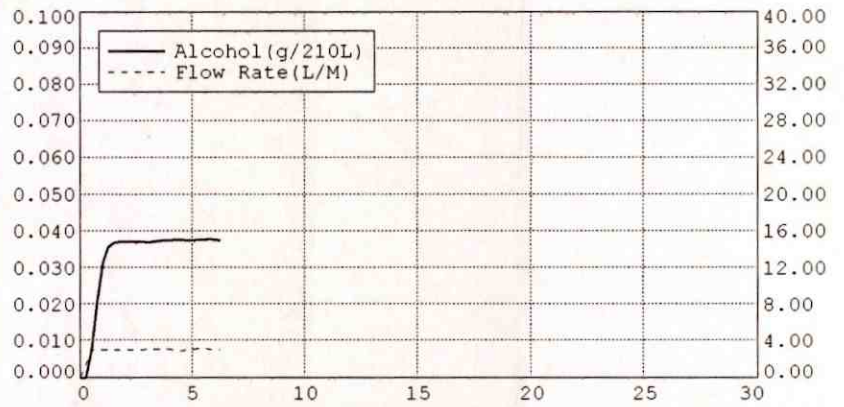
Date: 11/30/2023
Time: 12:30:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 28.83: 0.039
LOT #: AG217904
EXPIRATION: 06/28/2024
TANK PRESSURE: 822 psi

BLANK TEST	0.000	12:32
INTERNAL STANDARD	VERIFIED	12:32
EXTERNAL STANDARD	0.039	12:32
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.038	12:33
BLANK TEST	0.000	12:34
EXTERNAL STANDARD	0.039	12:34
BLANK TEST	0.000	12:35
EXTERNAL STANDARD	0.039	12:35
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.038	12:36
BLANK TEST	0.000	12:37

Average = 0.0386
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

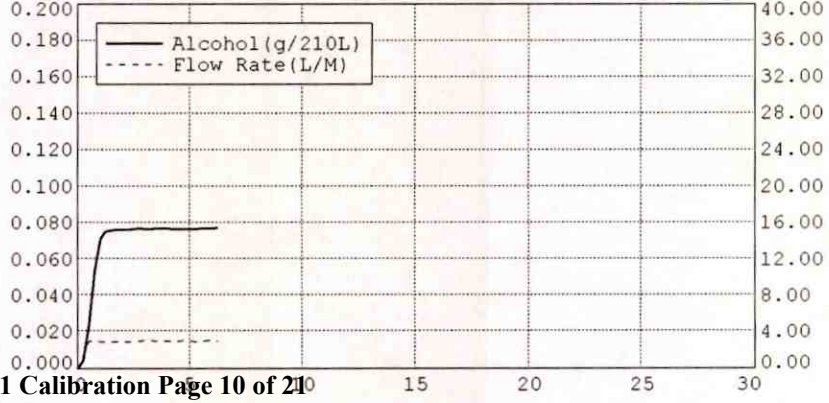
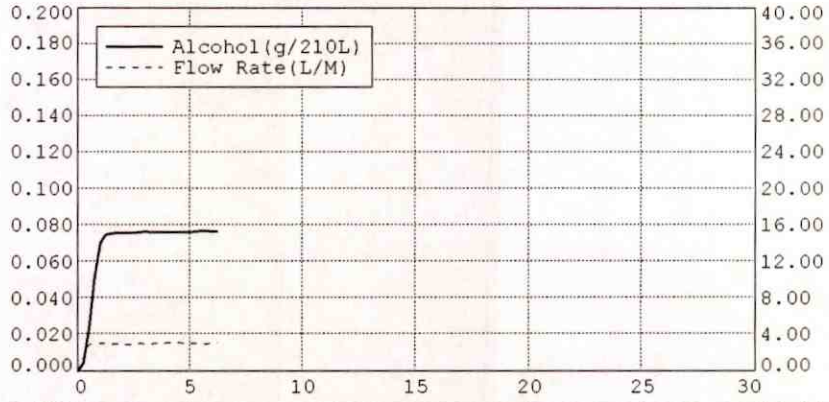
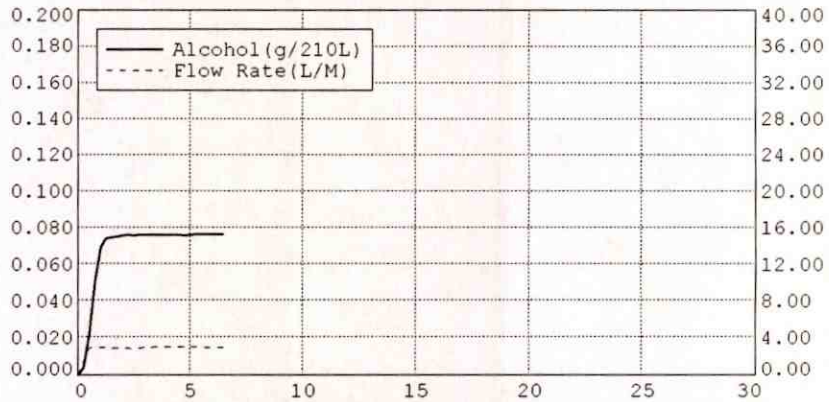
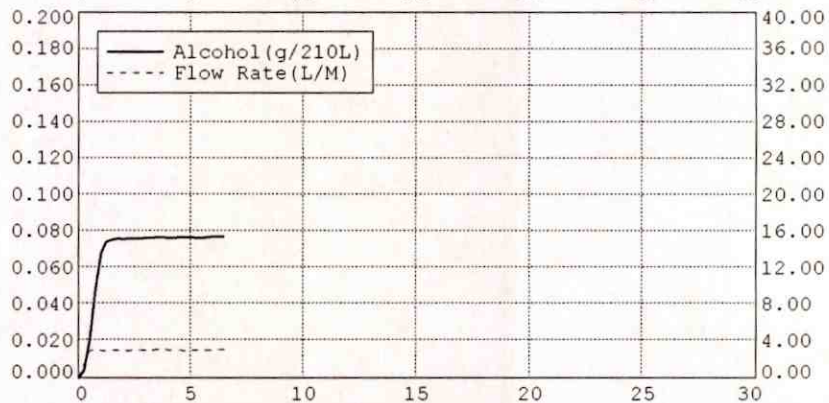
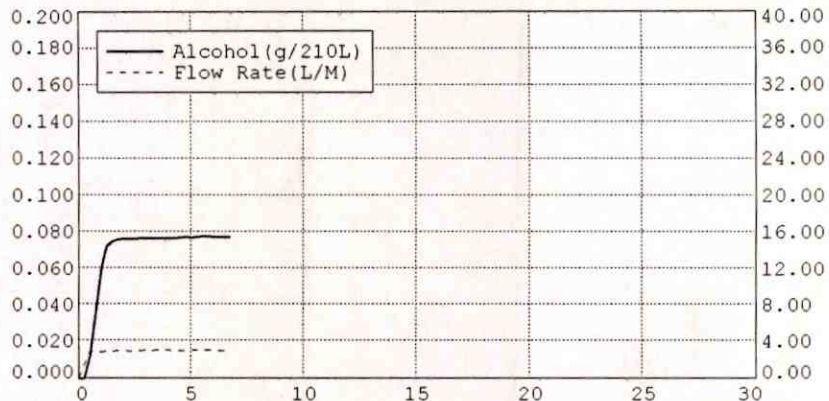
Date: 11/30/2023
 Time: 12:42:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 28.83: 0.077
 LOT #: 09523080A1
 EXPIRATION: 05/05/2025
 TANK PRESSURE: 647 psi

BLANK TEST	0.000	12:43
INTERNAL STANDARD	VERIFIED	12:43
EXTERNAL STANDARD	0.078	12:43
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.078	12:45
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.078	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.077	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.078	12:48
BLANK TEST	0.000	12:49

Average = 0.0778
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

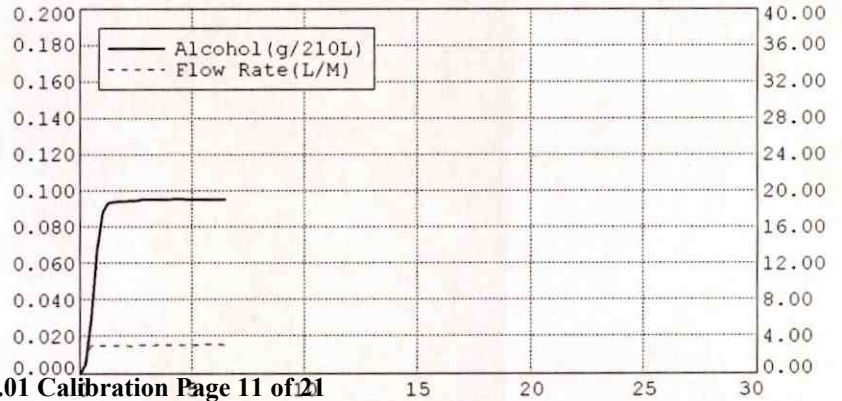
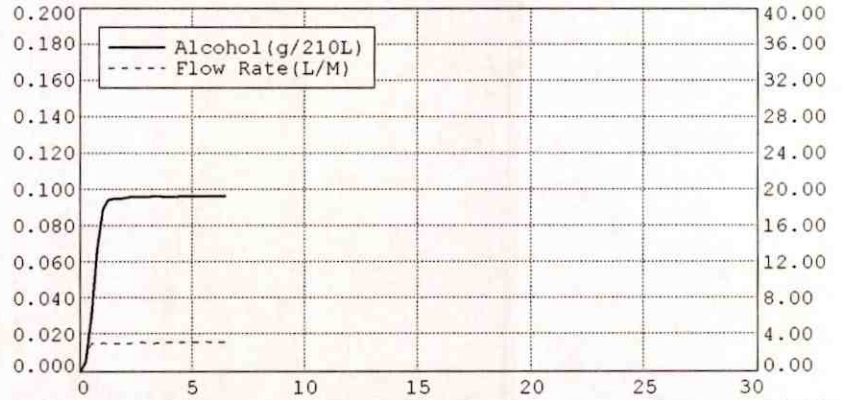
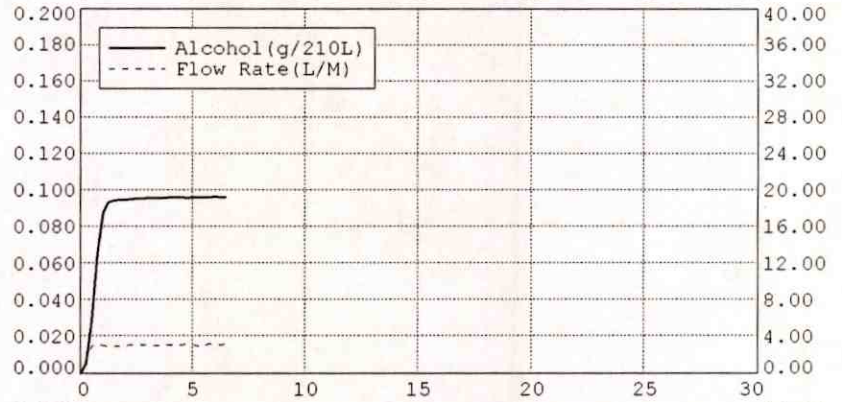
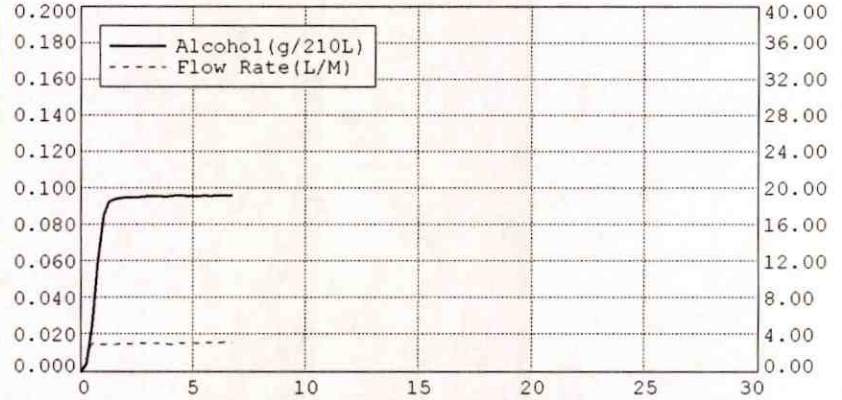
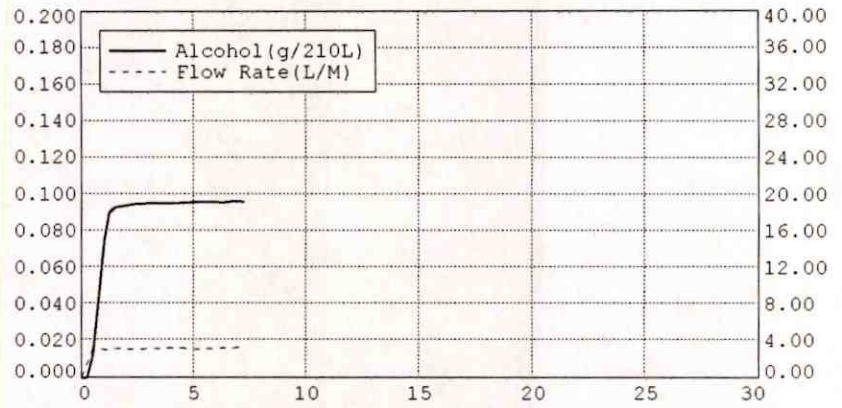
Date: 11/30/2023
 Time: 14:28:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 28.83: 0.096
 LOT #: AG211003
 EXPIRATION: 04/20/2024
 TANK PRESSURE: 1006 psi

BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.096	14:30
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.097	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.097	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.098	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.096	14:34
BLANK TEST	0.000	14:35

Average = 0.0968
 Std Dev = 0.0008



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

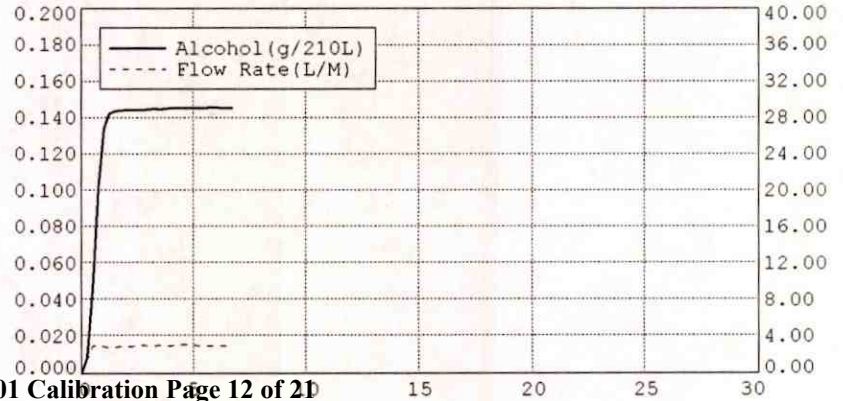
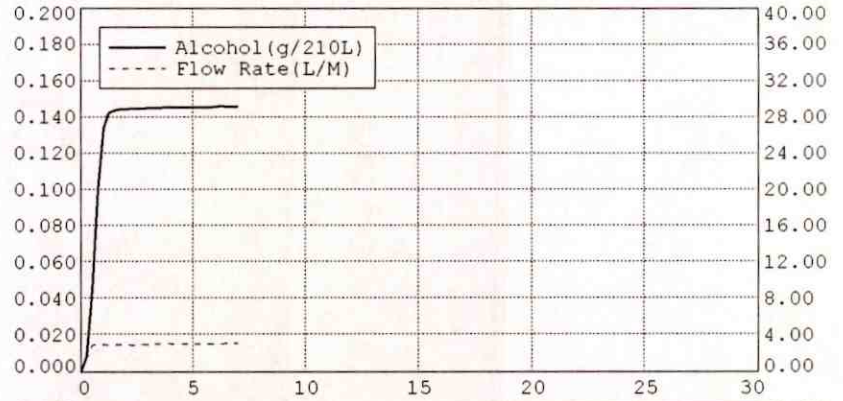
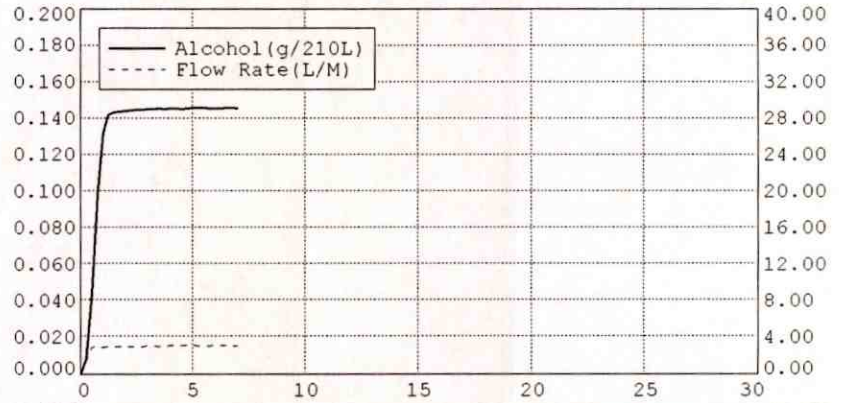
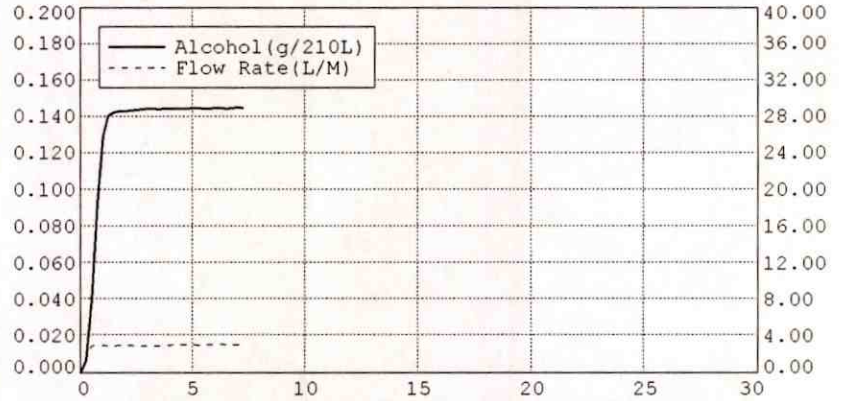
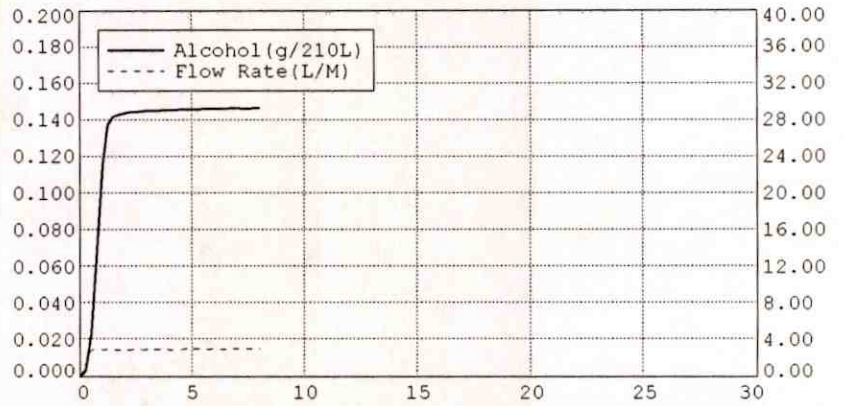
Date: 11/30/2023
 Time: 14:44:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.150
 TARGET AT 28.84: 0.145
 LOT #: AG134205
 EXPIRATION: 12/08/2023
 TANK PRESSURE: 491 psi

BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:45
EXTERNAL STANDARD	0.147	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.145	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.146	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.146	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.146	14:50
BLANK TEST	0.000	14:51

Average = 0.1460
 Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

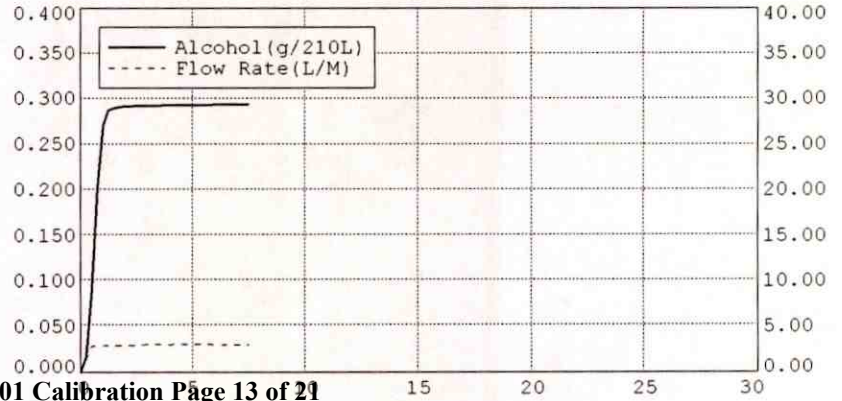
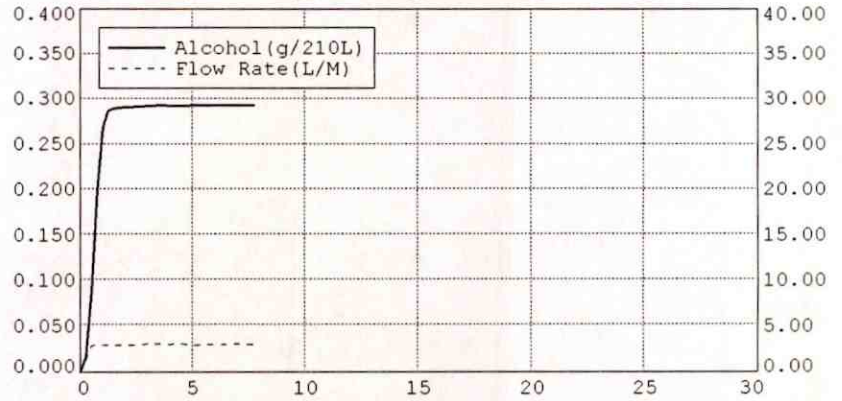
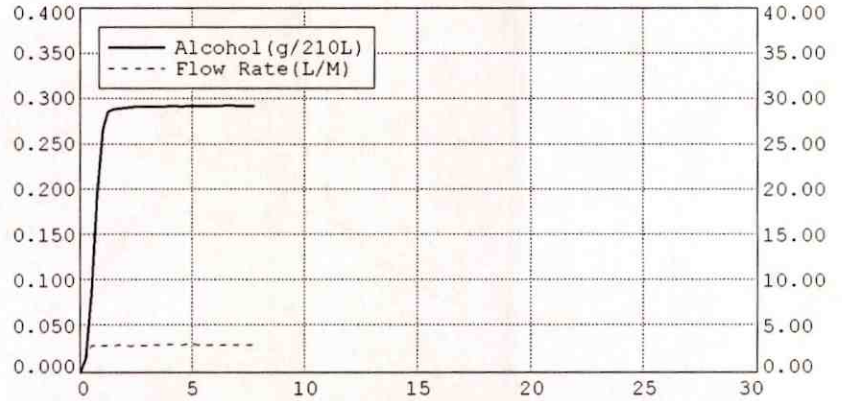
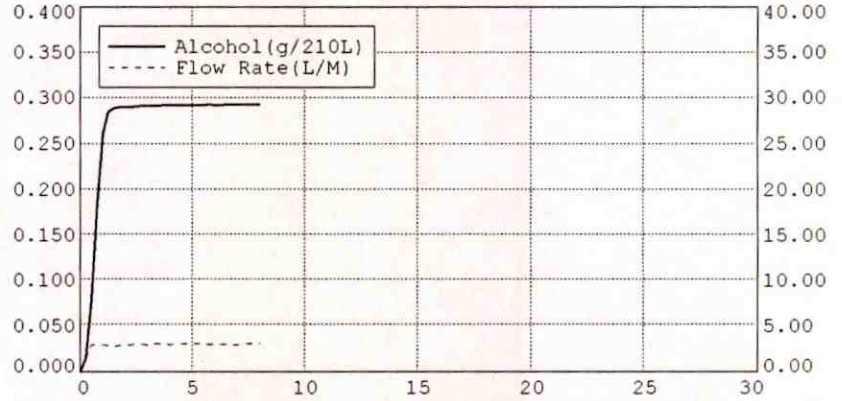
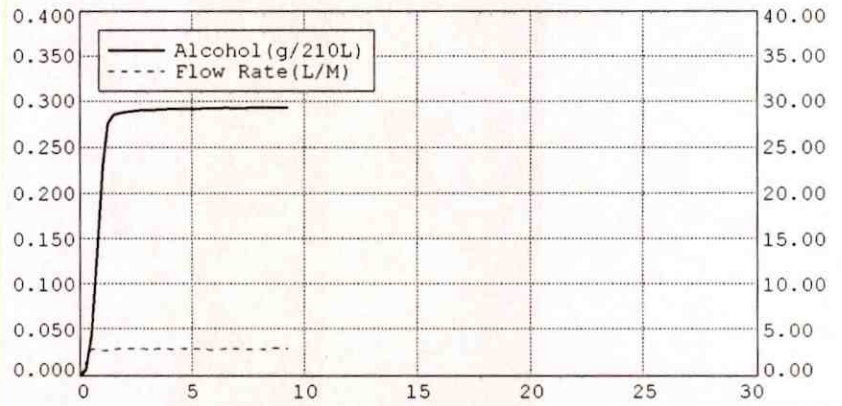
Date: 11/30/2023
 Time: 14:52:11

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 28.84: 0.289
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 199 psi

BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
EXTERNAL STANDARD	0.293	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.292	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.292	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.293	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.293	14:58
BLANK TEST	0.000	14:59

Average = 0.2926
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 11/30/2023
Time: 15:20:24

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

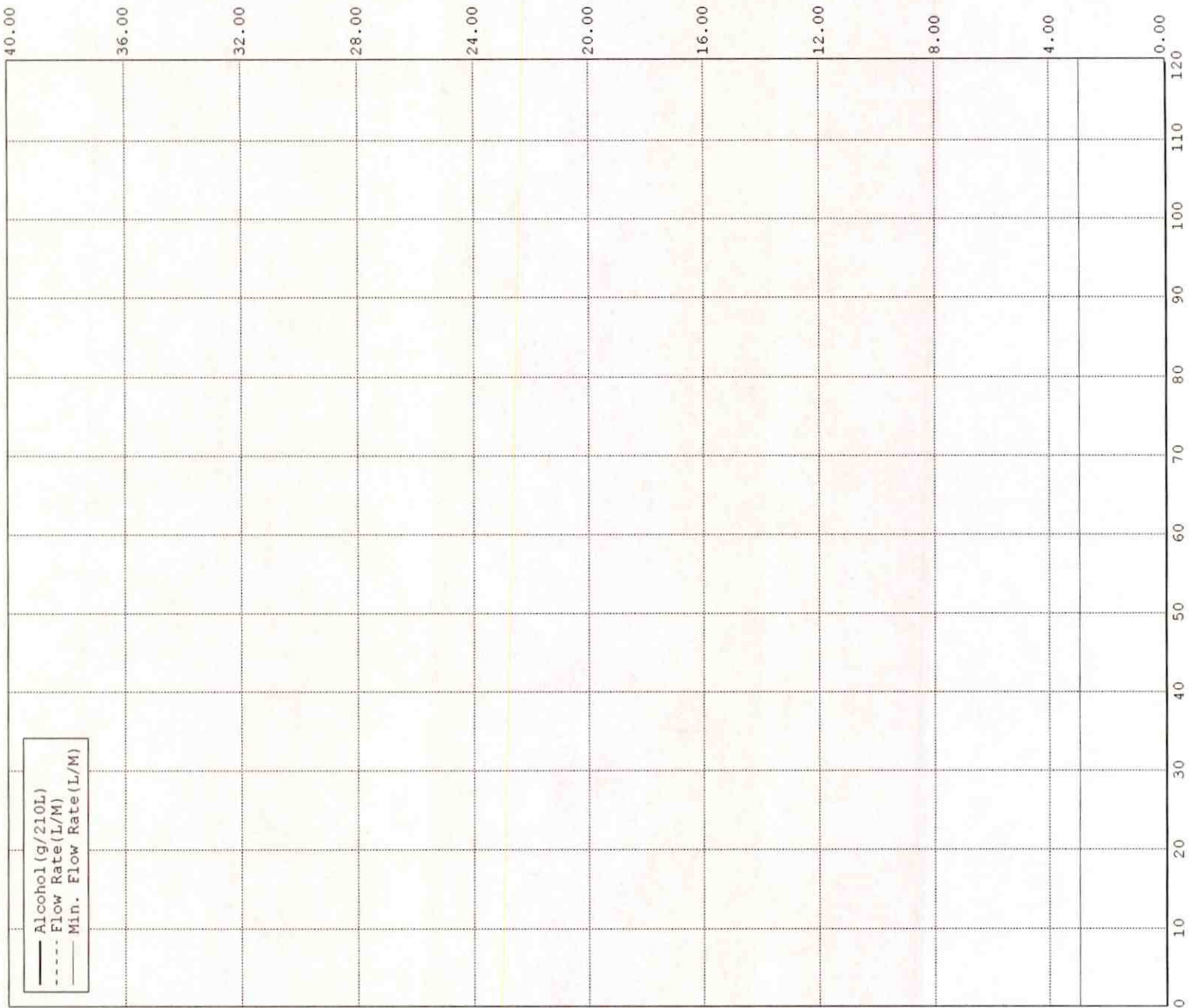
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
INCOMPLETE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.84: 0.077
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK PASSED 15:22
BLANK TEST 0.000 15:23
INTERNAL STANDARD VERIFIED 15:23
EXTERNAL STANDARD 0.079 15:23
BLANK TEST 0.000 15:24
SUBJECT SAMPLE INCOMPLETE 15:26

OKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 12/01/2023
Time: 09:06:03

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

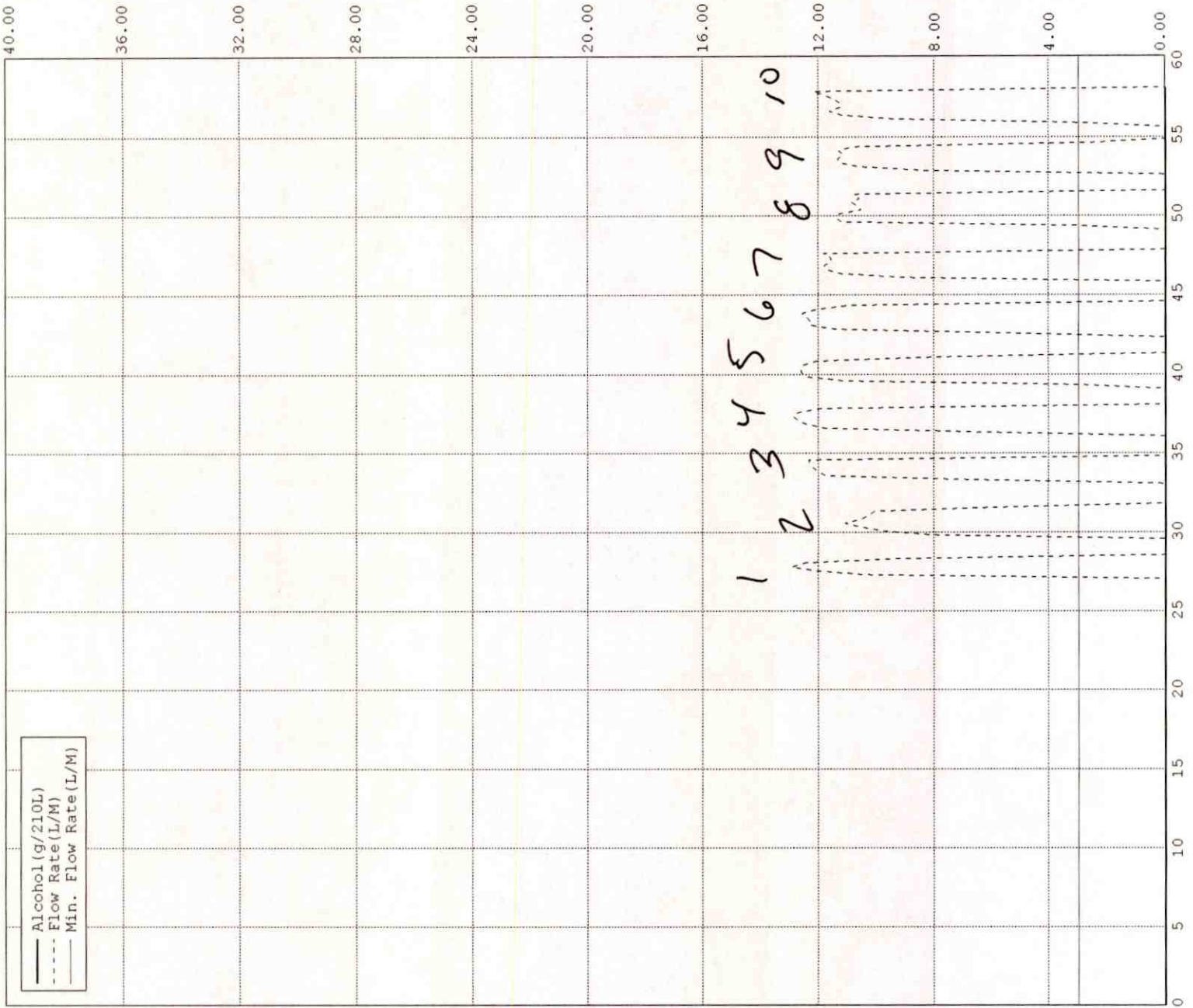
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
MAXIMUM ATTEMPTS EXCEEDED
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.94: 0.077
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK
BLANK TEST PASSED 09:07
INTERNAL STANDARD VERIFIED 09:07
EXTERNAL STANDARD 0.078 09:07
BLANK TEST 0.000 09:08
SUBJECT SAMPLE XXX 09:09

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 12/01/2023
Time: 09:11:17

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

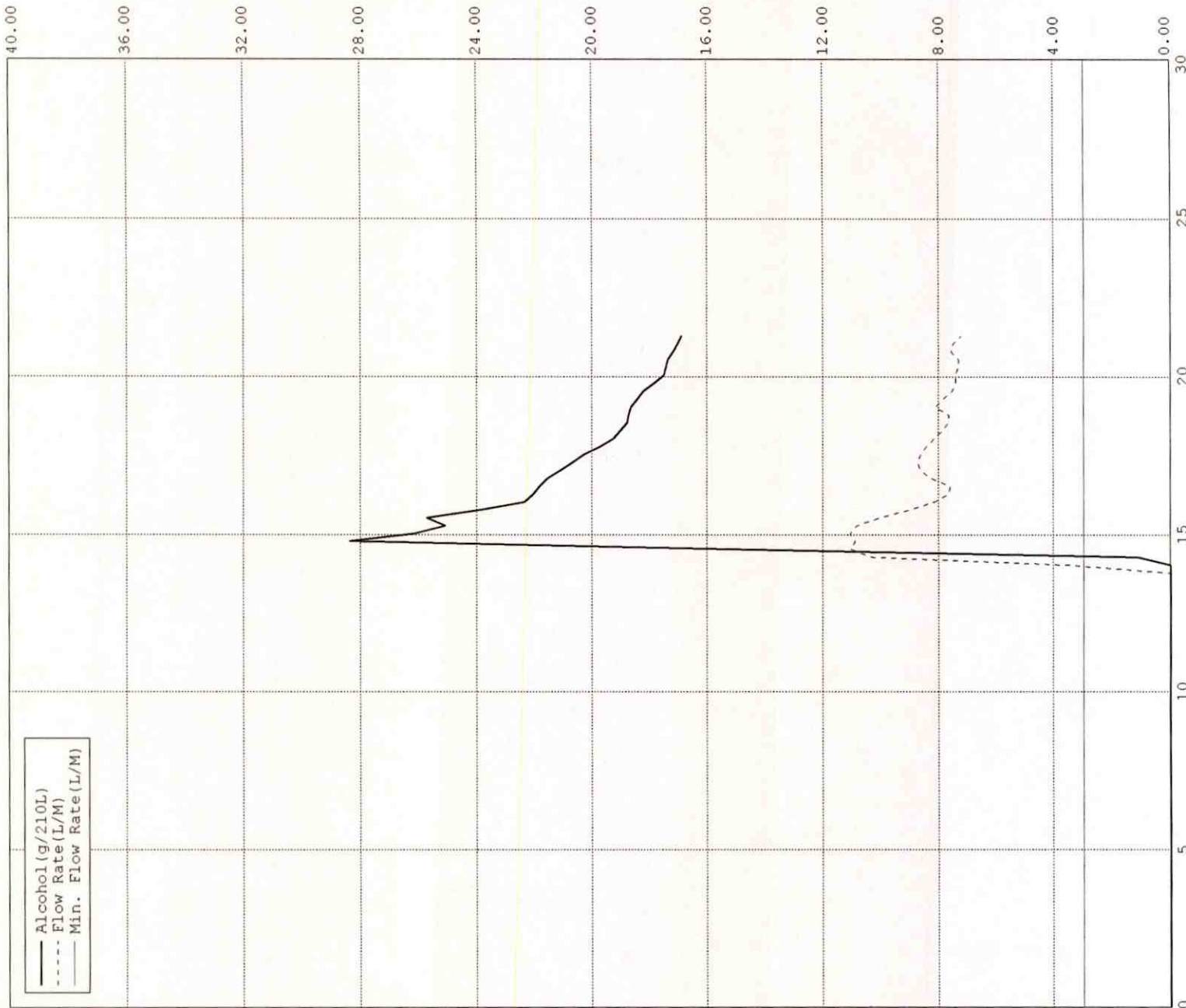
DEPT/AGENCY:
INVALID
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.95: 0.077
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK
BLANK TEST PASSED 09:15
INTERNAL STANDARD VERIFIED 09:15
EXTERNAL STANDARD 0.078 09:16
BLANK TEST 0.000 09:17
SUBJECT SAMPLE INVALID 09:18

CKG



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100405

Date: 12/01/2023

Time: 09:27:47

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

CARLIE GLAISTER

OPERATOR'S #: 10436

DEPT/AGENCY:

RFI

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 28.94: 0.077

LOT #: 09523080A1

EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

PASSED 09:29

0.000 09:29

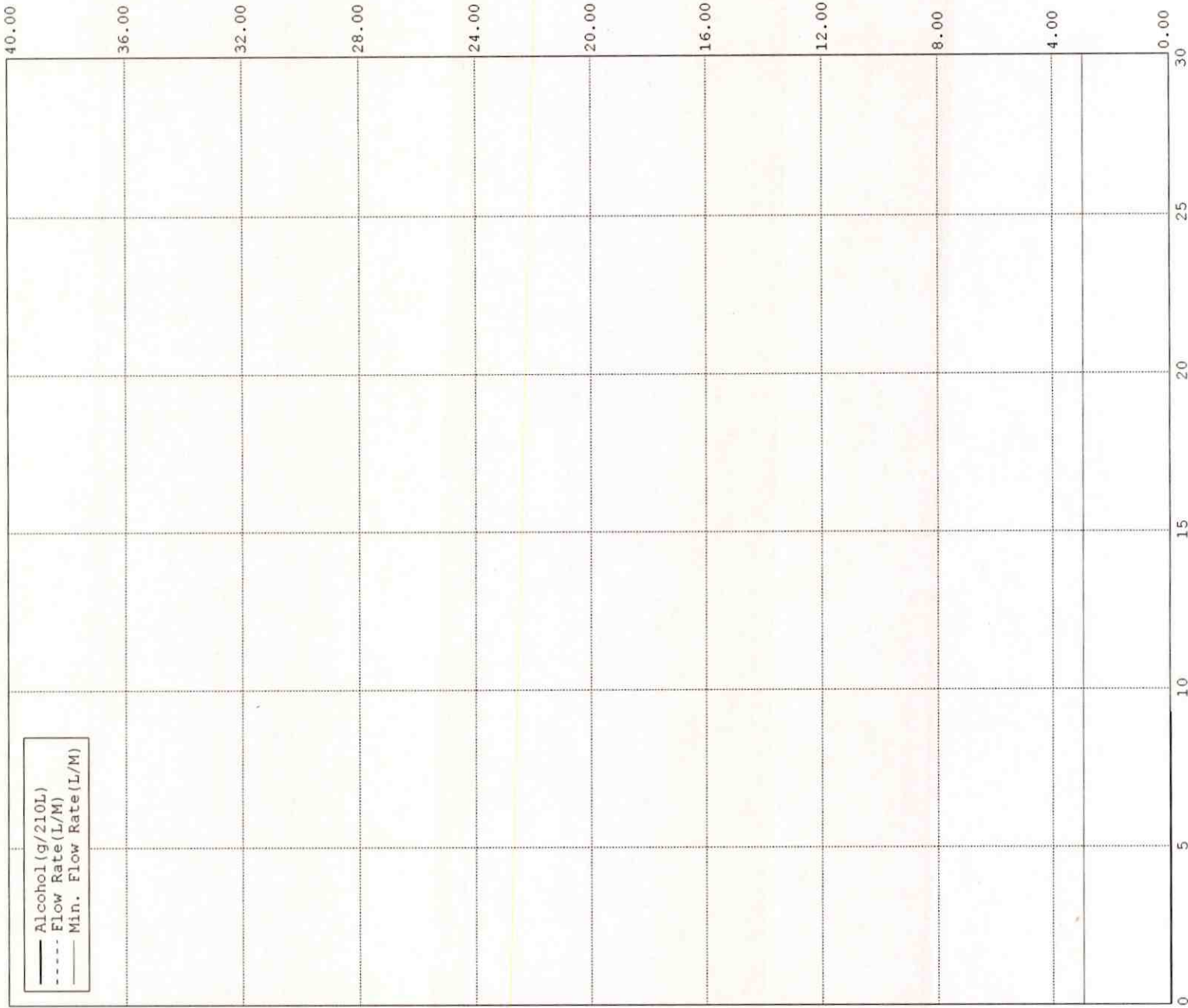
VERIFIED 09:29

0.078 09:29

0.000 09:30

RFI DETECTED

Handwritten signature



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 12/01/2023
Time: 10:28:32

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
INTERFERENCE ACETONE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.95: 0.077
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK PASSED 10:29
BLANK TEST 0.000 10:29
INTERNAL STANDARD VERIFIED 10:30
Xq = 0.089 (0.59%) 0.078 10:30
EXTERNAL STANDARD (0.0015) 0.000 10:31
X[1] = 0.0780 (-0.0009) (0.0005) XXX 10:31
BLANK TEST
SUBJECT SAMPLE
X[1] = 0.1091 (-0.0220) (0.0005)

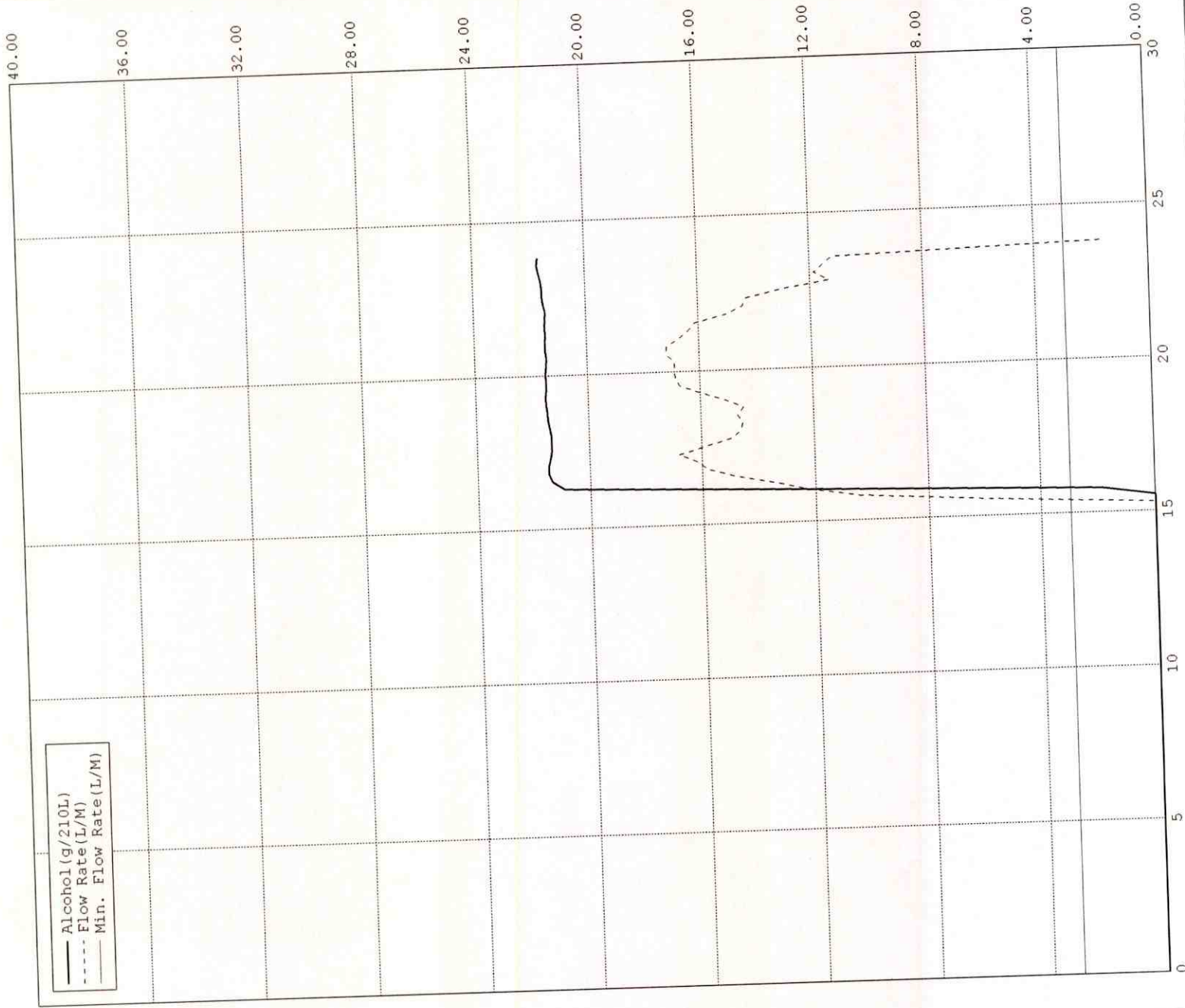
Interference Detected

Filter 2 Average: -0.0012

Filter 3 Average: 0.0020

CKG 12/14/23

CKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 12/01/2023
Time: 10:21:11

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

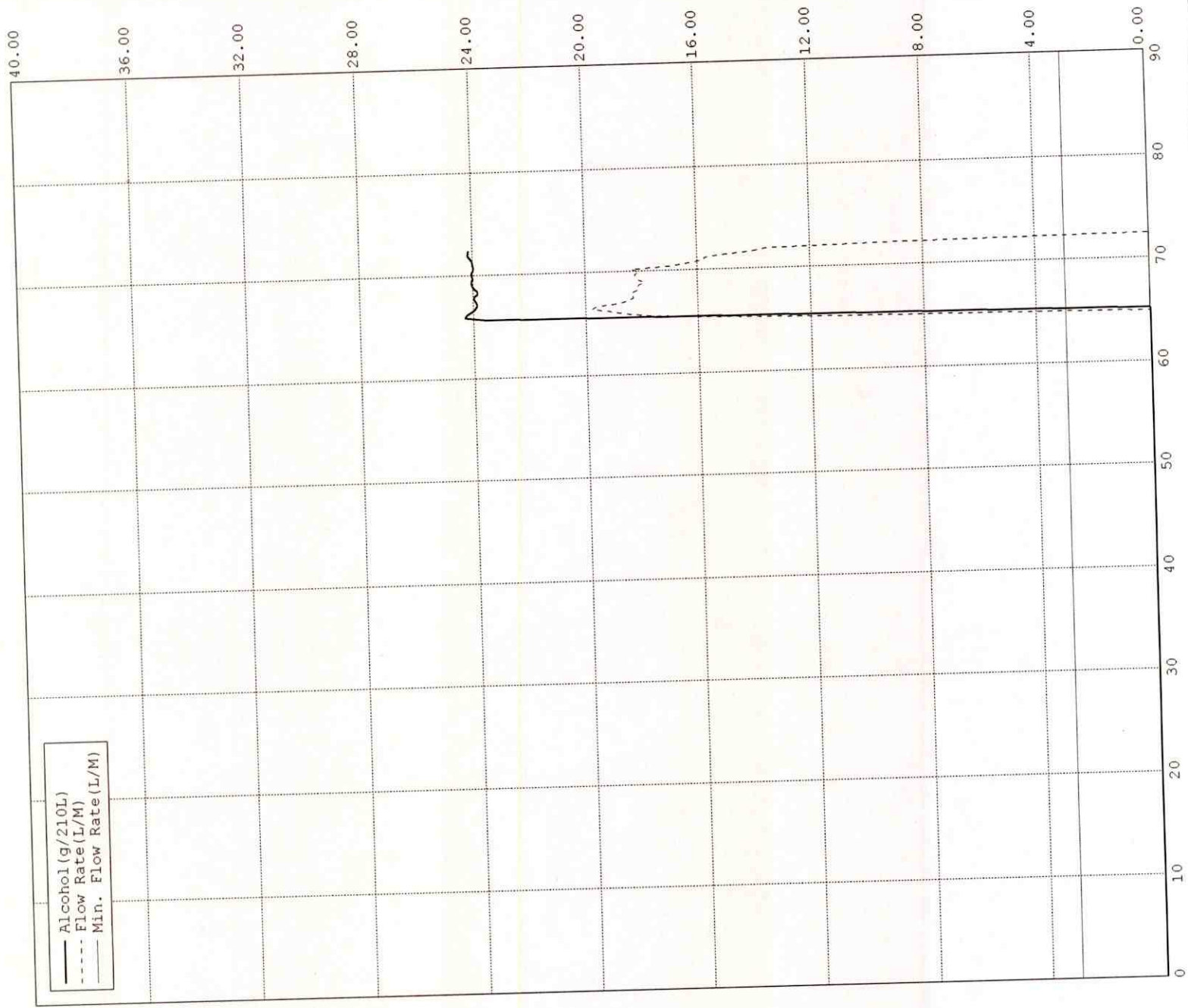
DEPT/AGENCY:
INTERFERENCE IPA
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.95: 0.077
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	10:22
BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:22
Xq = 0.089	0.078	10:22
EXTERNAL STANDARD	X[1] = 0.0783 (-0.0012)	(0.0026)
BLANK TEST	0.000	10:23
SUBJECT SAMPLE	XXX	10:24
X[1] = 0.1210 (-0.0244)	(0.0018)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 12/01/2023
Time: 10:12:09

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

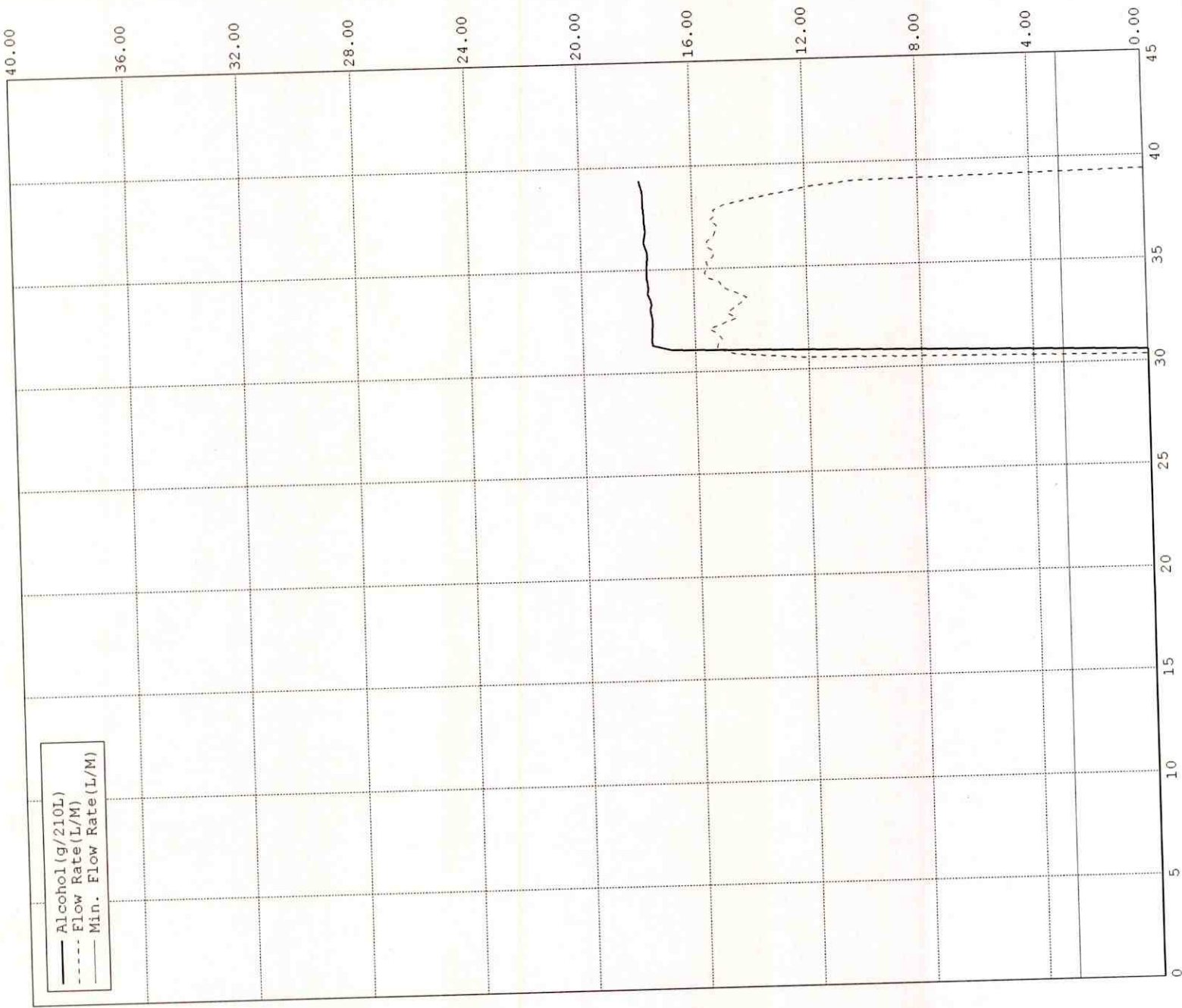
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
INTERFERENCE NEGATIVE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.95: 0.077
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	10:13
BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
Xq = 0.088 (0.10%)	0.078	10:13
EXTERNAL STANDARD	X[1] = 0.0777 (-0.0015)	(0.0022)
BLANK TEST	0.000	10:14
SUBJECT SAMPLE (Vol=2.15L)	0.090	10:15
X[1] = 0.0900 (-0.0017)	(0.0001)	
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.078	10:16
X[1] = 0.0779 (-0.0010)	(0.0018)	
BLANK TEST	0.000	10:17



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100405

Date: 12/01/2023

Time: 10:58:30

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

CARLIE GLAISTER

OPERATOR'S #: 10436

DEPT/AGENCY:

NON-DRINKING SUBJECT TEST

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 28.96: 0.077

LOT #: 09523080A1

EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	11:04
INTERNAL STANDARD	0.078	11:04
EXTERNAL STANDARD	0.000	11:05
BLANK TEST	0.000	11:06
SUBJECT SAMPLE (Vol=1.82L)	0.000	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.078	11:07
BLANK TEST	0.000	11:08

CKC

