



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: 100398

Report Issue Date: 12/02/2022
Date Received: Not Recorded
Condition of Item: Not Recorded

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

Start Date 11/14/2022 - As Left - End Date 11/15/2022

As Left Conditions - Barometric Pressure (inHg): 29.91 Barometer Used: Fisher S/N 221250180 Temperature (C): 22.4 Relative Humidity (%): 22

As-Left Data									
Nominal Values (g/210L)	Target Values (g/210L)	Lot Number	Results (g/210L)					Mean (g/210L)	Uncertainty (g/210L)
0.020	0.020	AG100401	0.020	0.020	0.020	0.020	0.021	0.020	+/- 0.002
0.040	0.040	AG111710	0.040	0.040	0.039	0.040	0.039	0.040	+/- 0.003
0.080	0.080	AG113402	0.079	0.079	0.078	0.079	0.078	0.079	+/- 0.003
0.100	0.100	AG108404	0.099	0.098	0.099	0.099	0.098	0.099	+/- 0.003
0.150	0.150	AG134205	0.148	0.148	0.147	0.147	0.148	0.148	+/- 0.004
0.300	0.300	AG130502	0.293	0.293	0.293	0.293	0.293	0.293	+/- 0.008

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.

Technically and administratively reviewed by Brandi Barnett on 12/02/2022

Results authorized by Derek Walton on 12/02/2022
derek.walton@alaska.gov

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100398 Analyst: Derek Walton Start Date: 11/14/2022

- 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 1.6 L (1.3L to 1.7L)

As Left Conditions:

Barometric Pressure (in Hg): 29.91 Temperature (C): 22.4 Relative Humidity (%) 22

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: AG100401 Exp: 01/04/23
0.040g/210L Mnf: Airgas Lot: AG111710 Exp: 04/27/23
0.080g/210L Mnf: Airgas Lot: AG113402 Exp: 05/14/23
0.100g/210L Mnf: Airgas Lot: AG108404 Exp: 03/25/23
0.150g/210L Mnf: Airgas Lot: AG134205 Exp: 12/08/23
0.300g/210L Mnf: Airgas Lot: AG130502 Exp: 11/01/23

Functional Tests (attached)

- Incomplete
- Maximum Attempts Exceeded
- Interference (Volatiles)
- Invalid
- Radio Frequency Interference (RFI)

Acetone Mnf: Lifeloc Lot: 21DP41158 Level: 0.100 Exp: 04/29/23

Simulator S/N: SD1200 Verification Performed?

Isopropanol Mnf: Lifeloc Lot: 21KP41172 Level: 0.100 Exp: 11/09/23

Simulator S/N: DR4176 Verification Performed?

Neg. Control Mnf: Lifeloc Lot: 21KP41172 Level: 0.100 Exp: 11/09/23

Simulator S/N: DR4162 Verification Performed?

Calibrated External Thermometer:

Thermometer S/N: 210958384 Calibration Due Date: 11/09/23

- 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: 11/14/22

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 11/14/2022
Time: 10:29:29

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 = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.82 V PASSED
(1.09 V - 2.55 V)
Cooler Voltage = 1.74 V PASSED
(1.06 V - 2.46 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 529 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 4.370 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.001 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 = 0.098 2.48% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100398

Date: 11/14/2022
Time: 10:40 AM

Temperatures (°C)
Sample Cell: 49.0°C
Breath Tube: 47.9°C

Current Barometer 29.9 in
Volume (Ltr) 1.45

Settings
Lamp: 1.82 V
Bias: 79 V
Cooler: 1.84 V
Chopper: 527 Hz

Voltages (V)
Flow: 1.03 V
Detector: 0.023 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 05/01/2015
Time: 10:32:08

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

Ca = 0.1000
CAL = 0.977715 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0078 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0952 0.0500 <= Xq < 0.2000
a21 = 1.238166 1.050 <= a21 < 1.300
a31 = 0.474955 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 11/14/2022
Time: 10:51:03

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

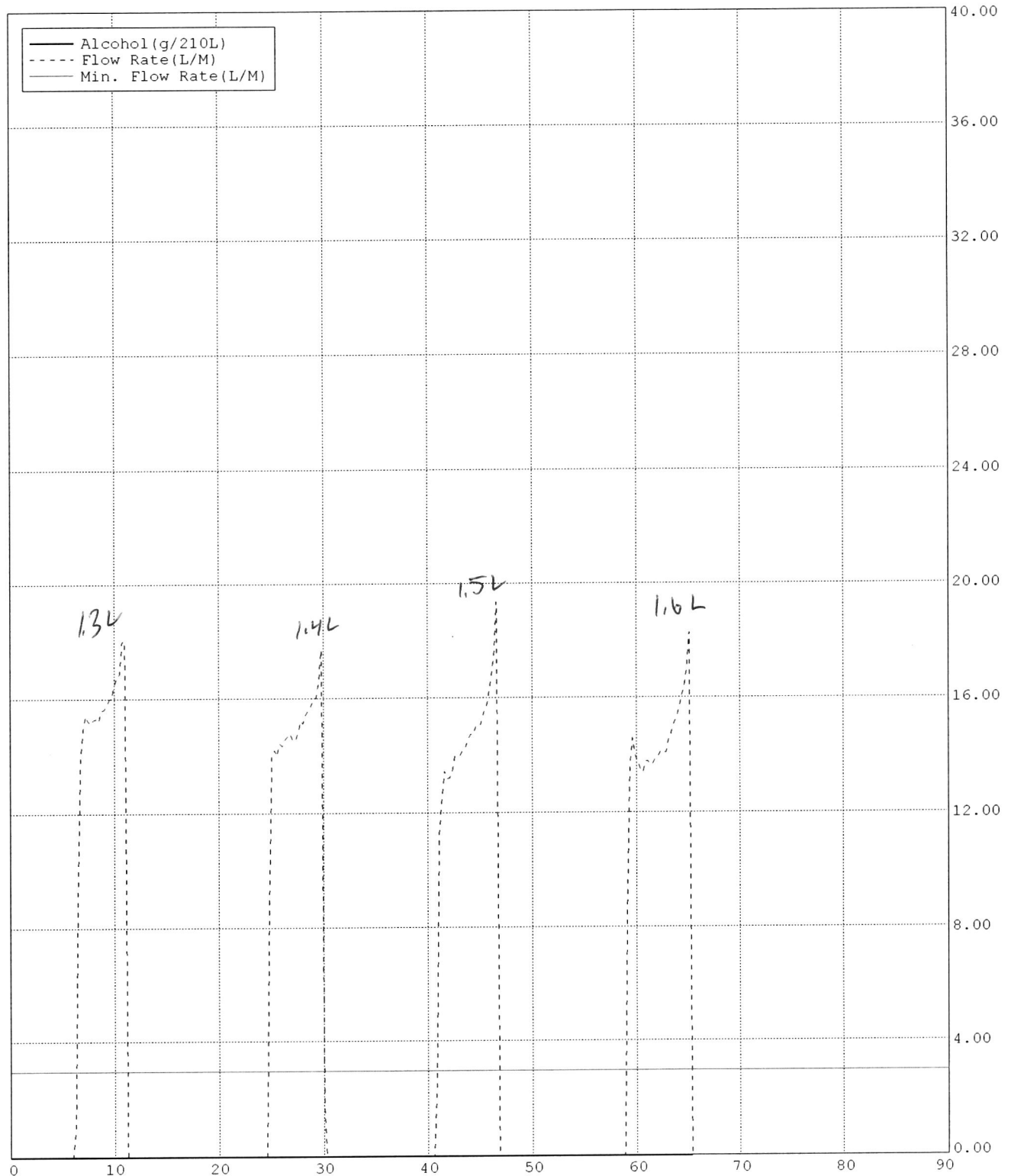
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

DEPT/AGENCY:
MINIMUM VOLUME
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.89: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	10:53
BLANK TEST	0.000	10:53
INTERNAL STANDARD	VERIFIED	10:53
EXTERNAL STANDARD	0.079	10:53
BLANK TEST	0.000	10:54
SUBJECT SAMPLE (Vol=1.50L)	0.000	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.079	10:56
BLANK TEST	0.000	10:57

Dm



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100398

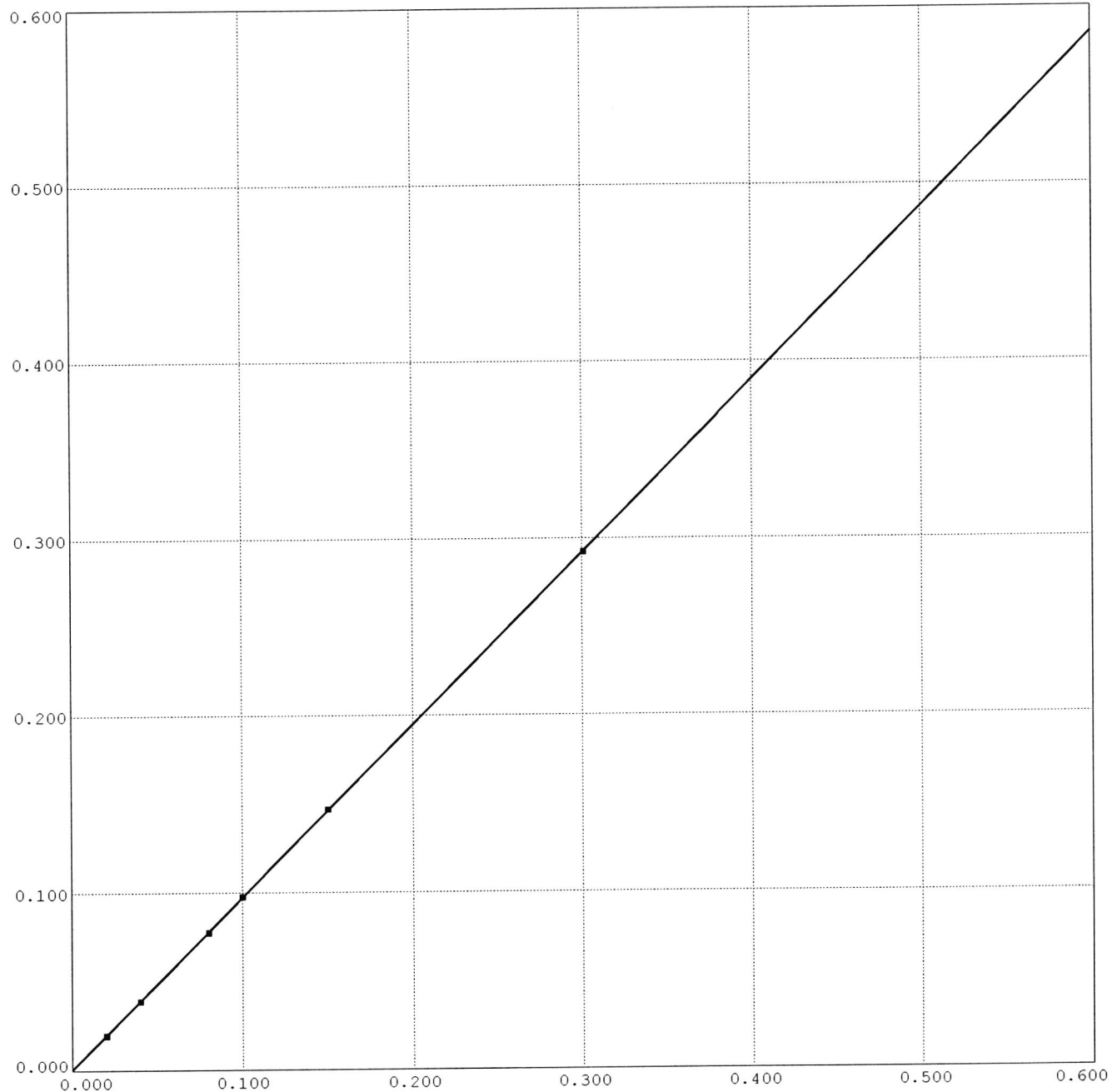
Date: 11/14/2022
Time: 11:01:14

SUPERVISOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.040	0.0396	0.0005
0.080	0.0786	0.0005
0.100	0.0986	0.0005
0.150	0.1476	0.0005
0.300	0.2930	0.0000

SLOPE = 0.974821
R² = 0.999988

DW



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100398

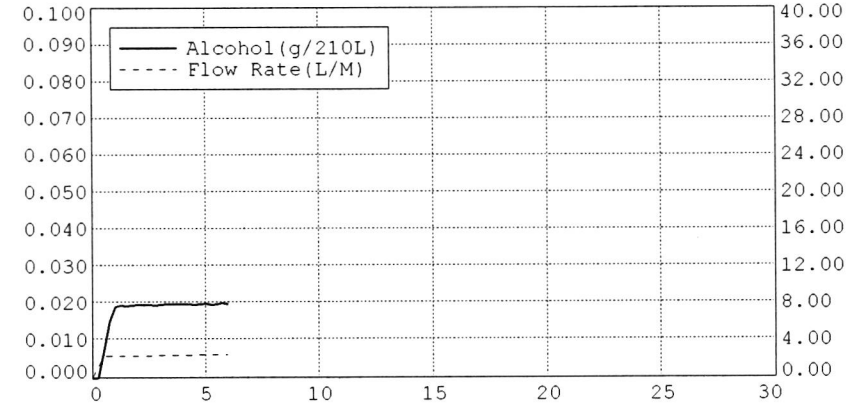
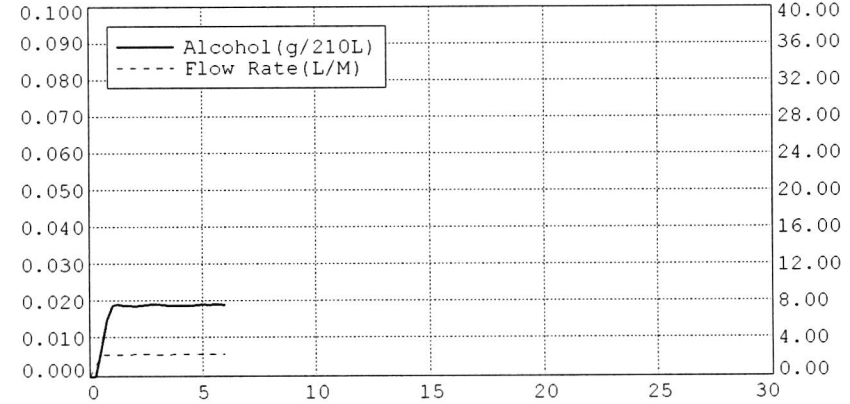
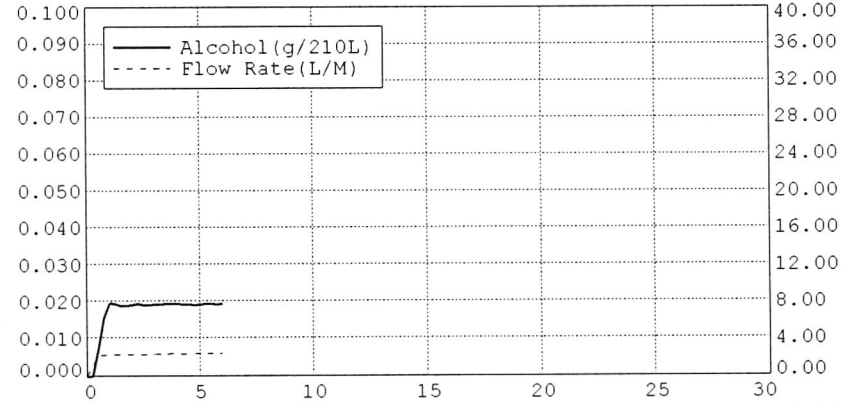
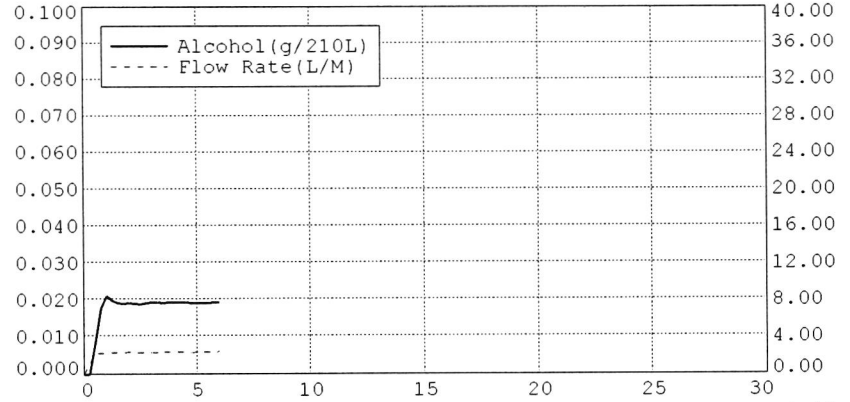
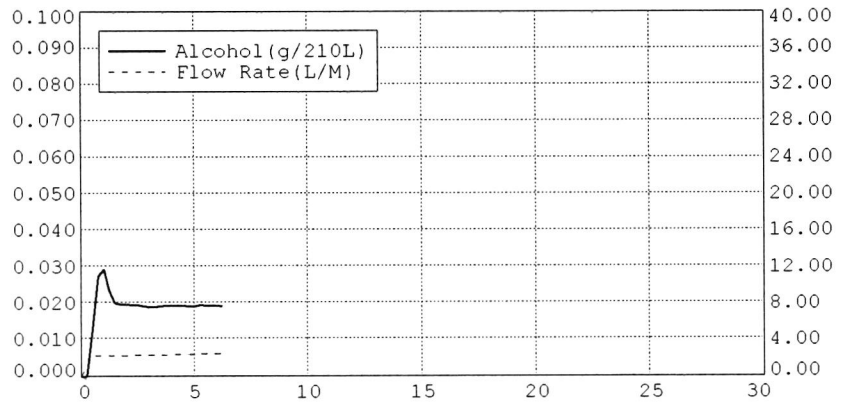
Date: 11/14/2022
Time: 11:01:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.89: 0.020
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 247 psi

BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:02
EXTERNAL STANDARD	0.020	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.020	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.020	11:05
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.020	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.021	11:07
BLANK TEST	0.000	11:08

Average = 0.0202
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

 Alaska Department of Public Safety
 DATAMASTER dmt: 100398

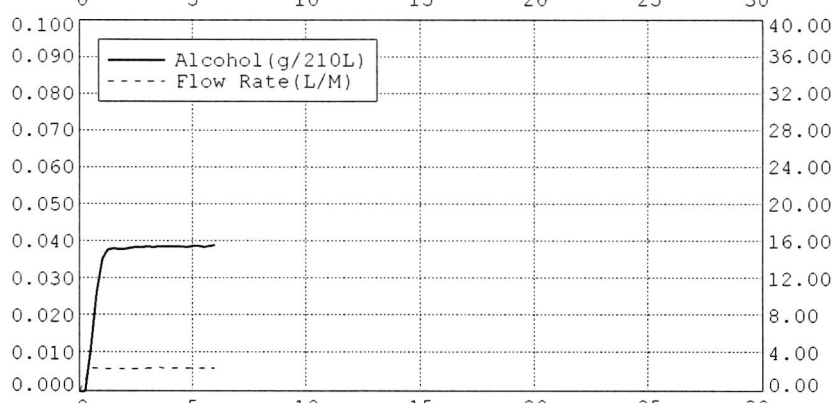
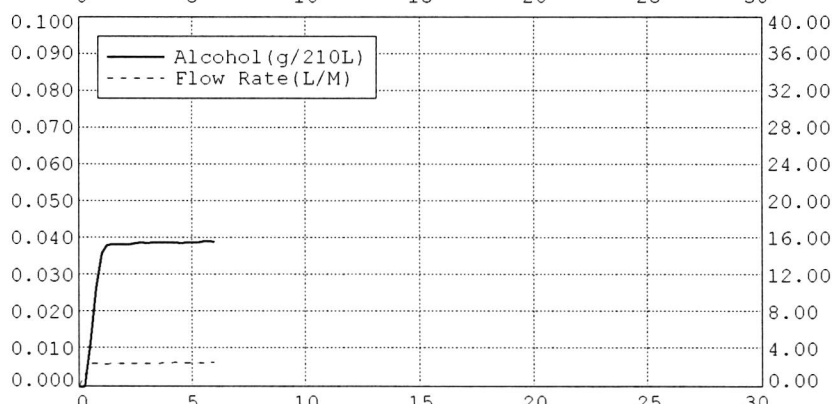
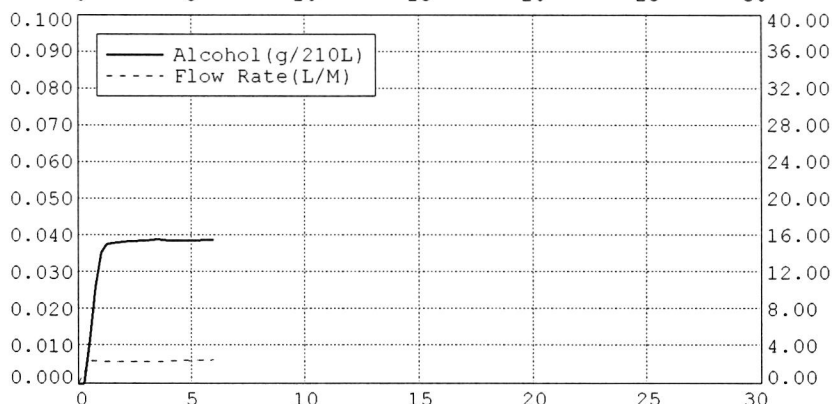
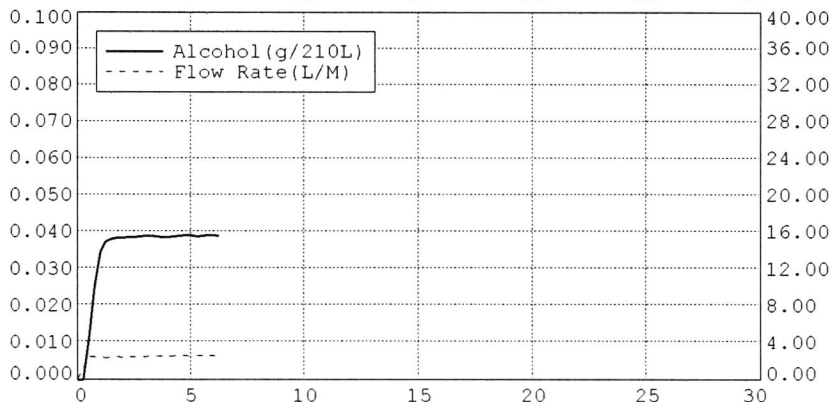
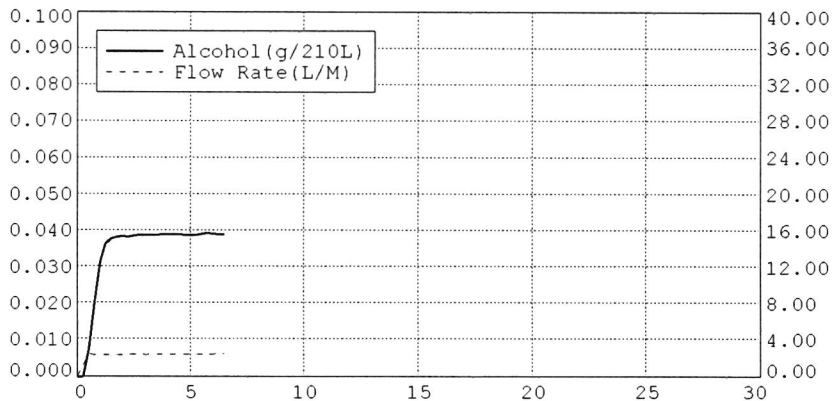
Date: 11/14/2022
 Time: 11:08:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.90: 0.040
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 425 psi

BLANK TEST	0.000	11:10
INTERNAL STANDARD	VERIFIED	11:10
EXTERNAL STANDARD	0.040	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.040	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.039	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.040	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.039	11:14
BLANK TEST	0.000	11:15

Average = 0.0396
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

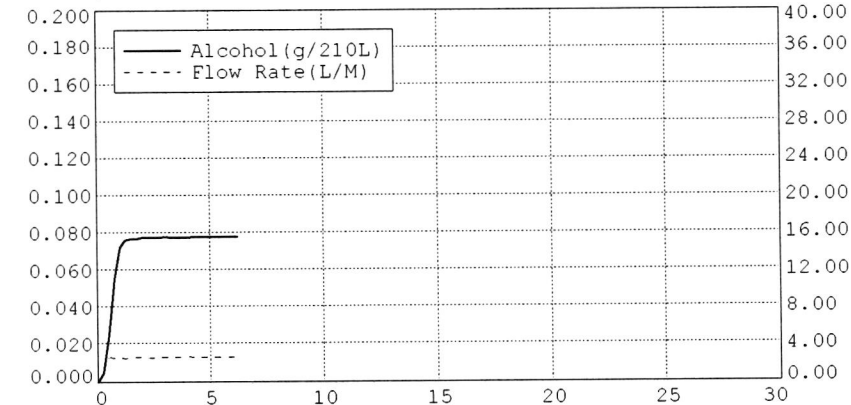
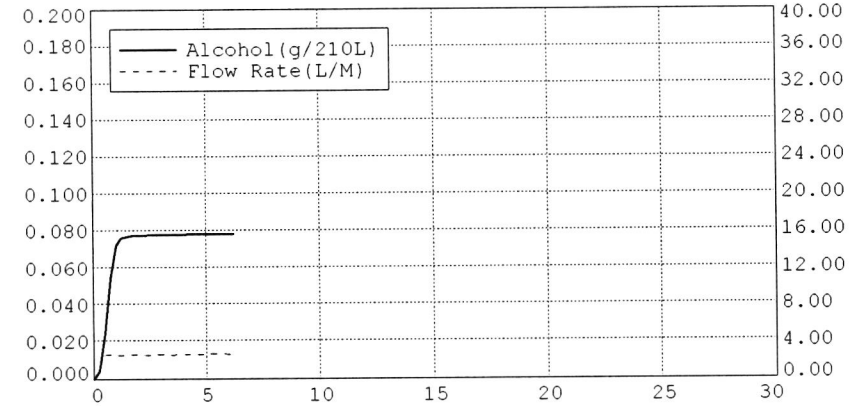
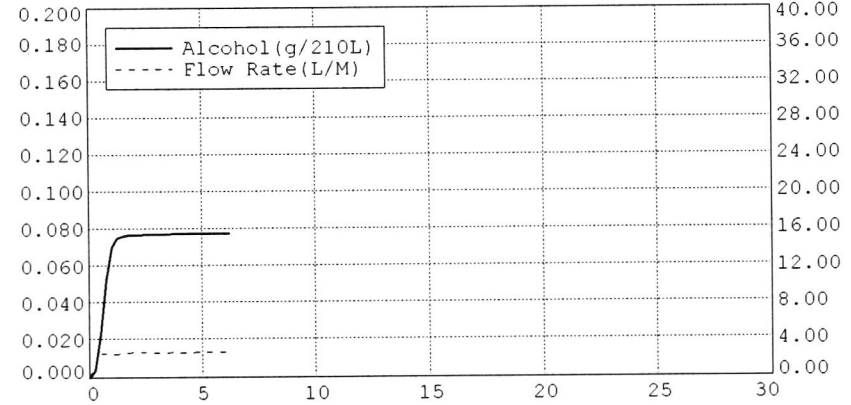
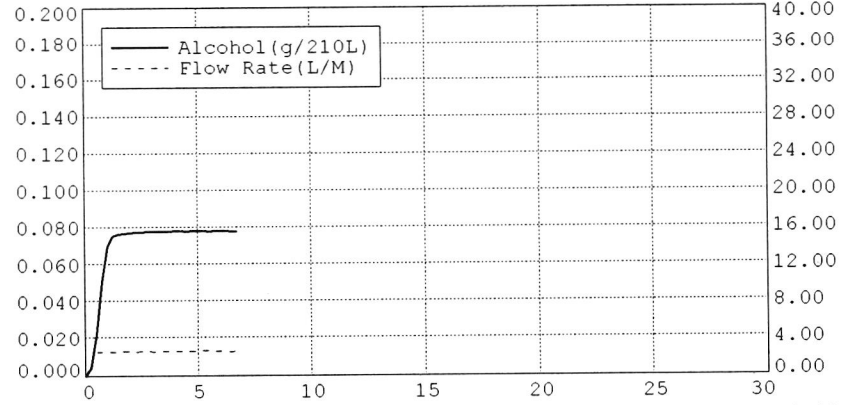
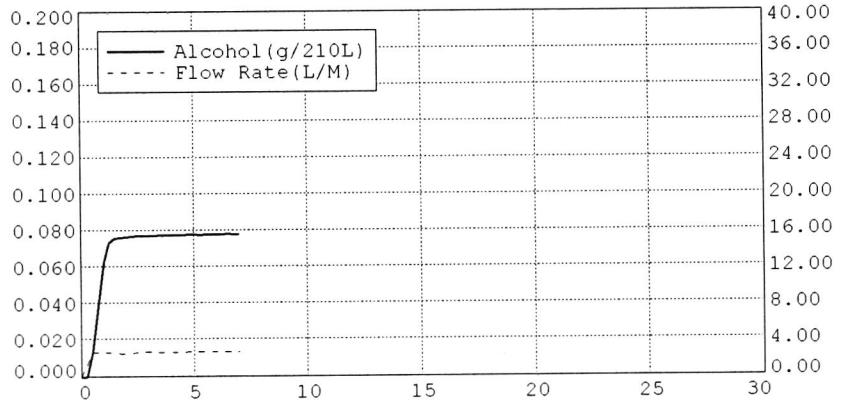
Date: 11/14/2022
 Time: 11:17:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.91: 0.080
 LOT #: AG113402
 EXPIRATION: 05/14/2023
 TANK PRESSURE: 803 psi

BLANK TEST	0.000	11:18
INTERNAL STANDARD	VERIFIED	11:18
EXTERNAL STANDARD	0.079	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.079	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.078	11:21
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.079	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.078	11:23
BLANK TEST	0.000	11:24

Average = 0.0786
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

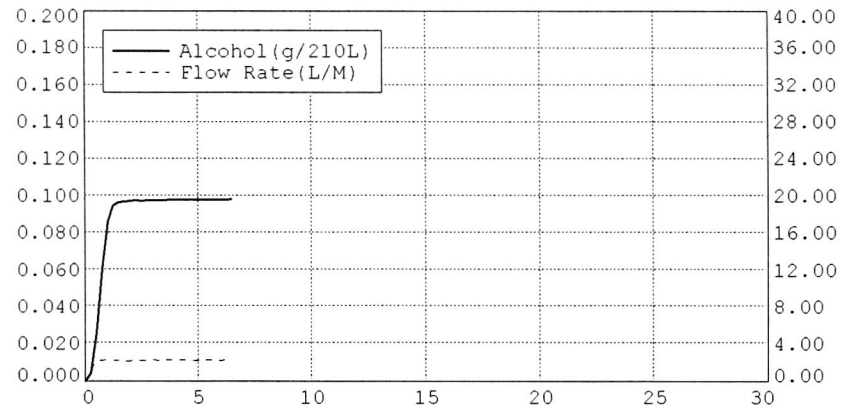
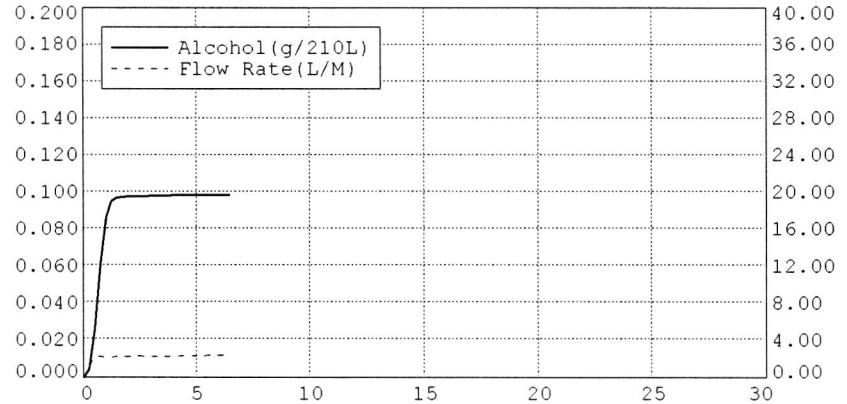
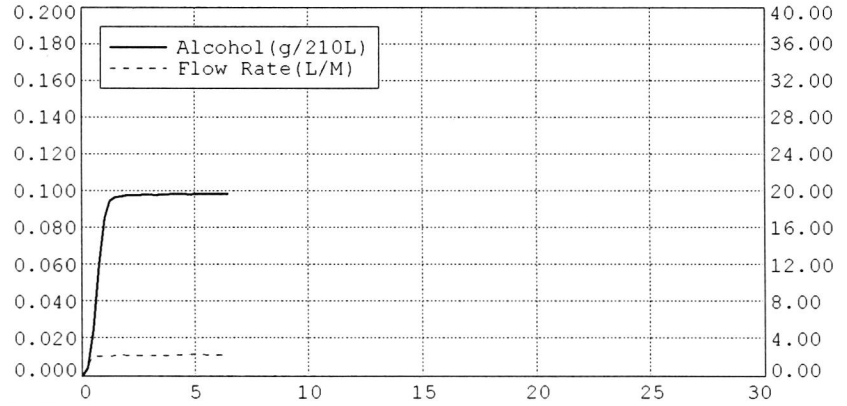
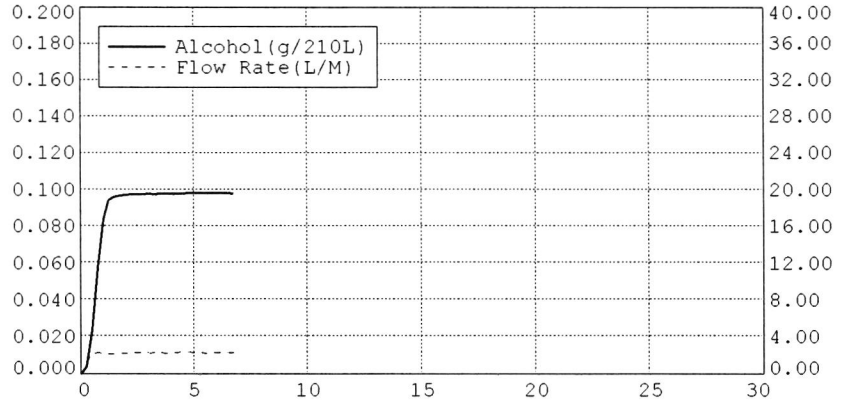
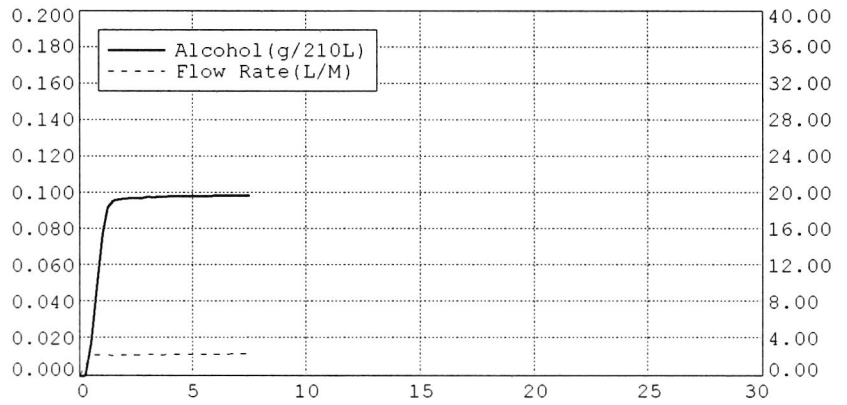
Date: 11/14/2022
 Time: 11:24:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.91: 0.100
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 135 psi

BLANK TEST	0.000	11:26
INTERNAL STANDARD	VERIFIED	11:26
EXTERNAL STANDARD	0.099	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.098	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.099	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.099	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.098	11:30
BLANK TEST	0.000	11:31

Average = 0.0986
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100398

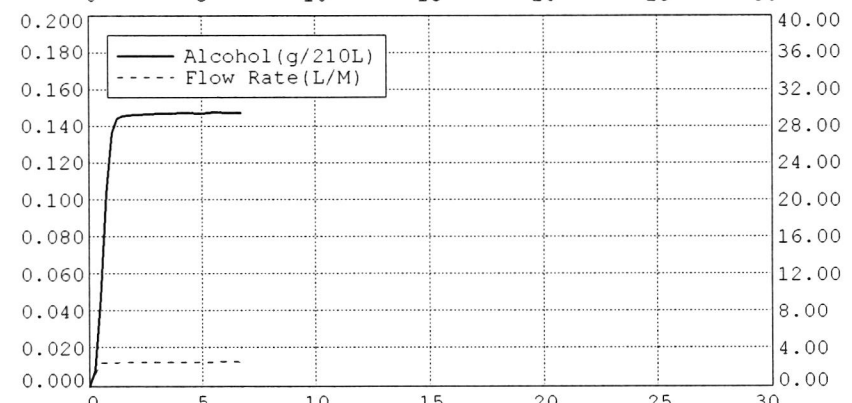
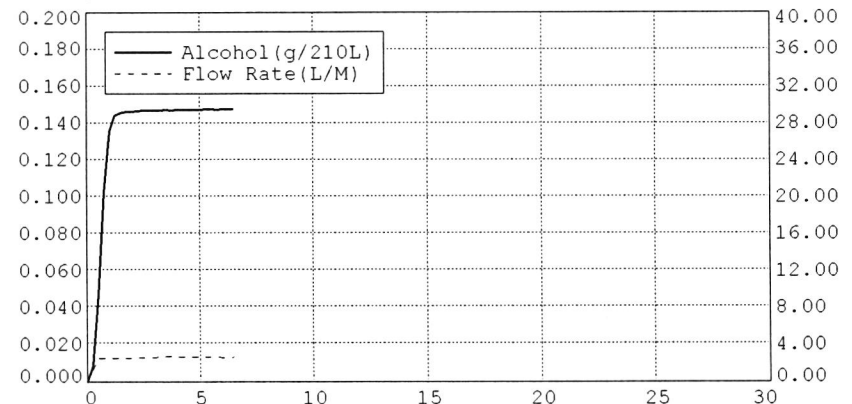
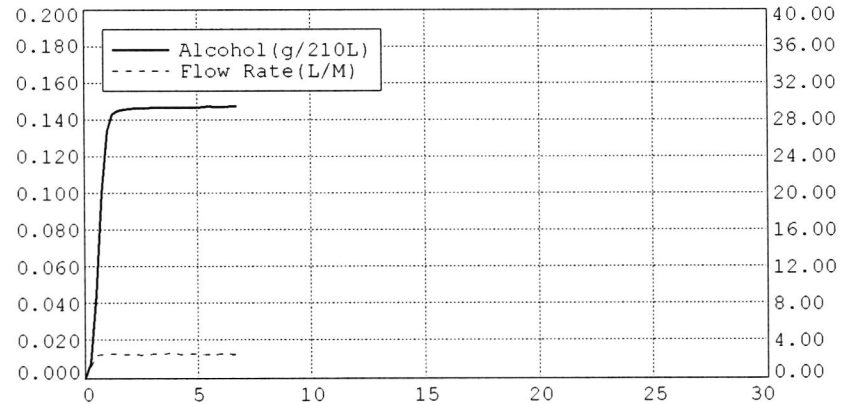
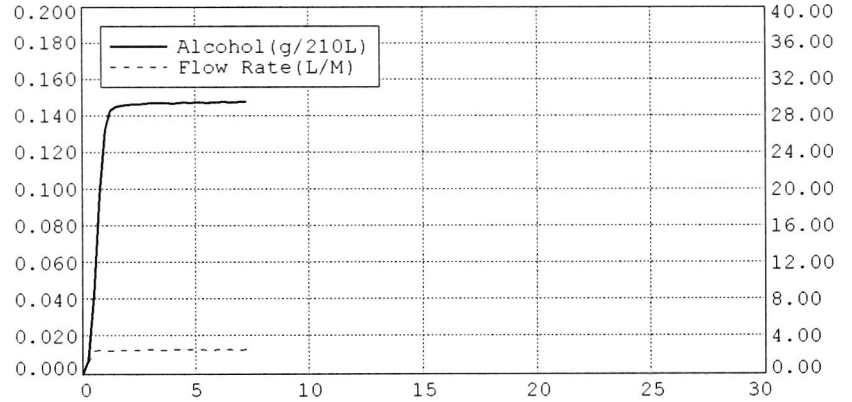
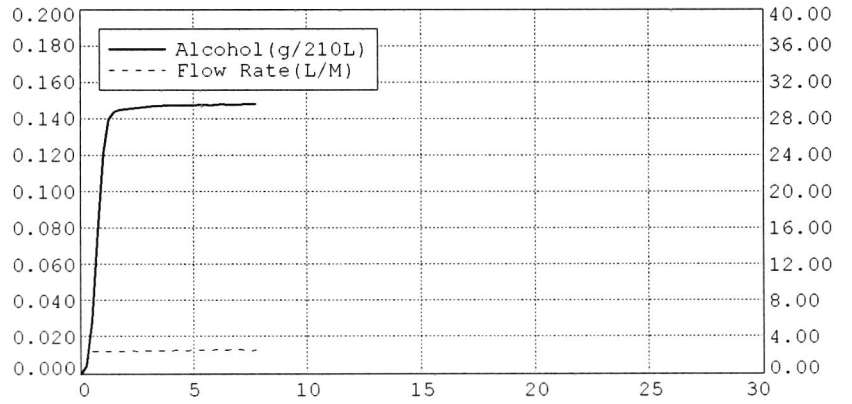
Date: 11/14/2022
Time: 11:33:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.150
TARGET AT 29.91: 0.150
LOT #: AG134205
EXPIRATION: 12/08/2023
TANK PRESSURE: 727 psi

BLANK TEST	0.000	11:34
INTERNAL STANDARD	VERIFIED	11:34
EXTERNAL STANDARD	0.148	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.148	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.147	11:37
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.147	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.148	11:39
BLANK TEST	0.000	11:40

Average = 0.1476
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

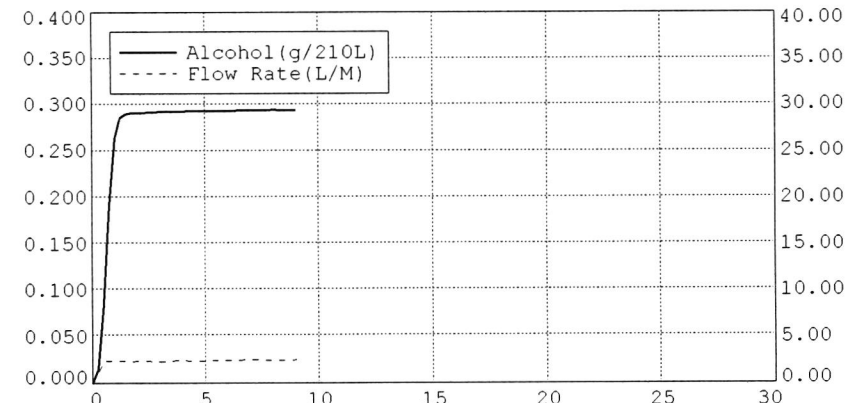
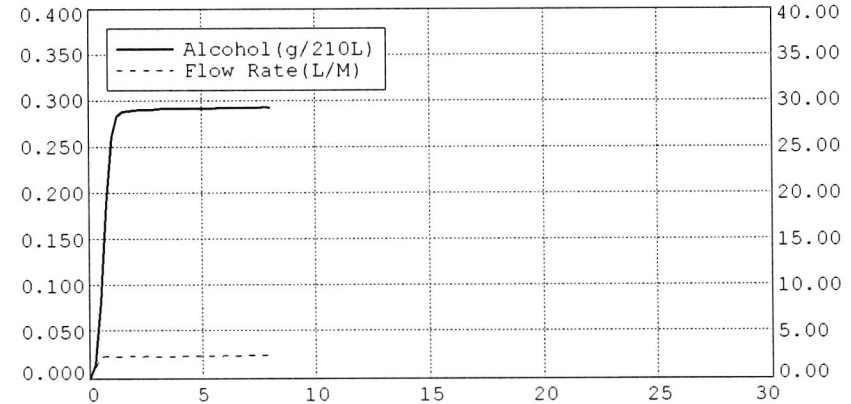
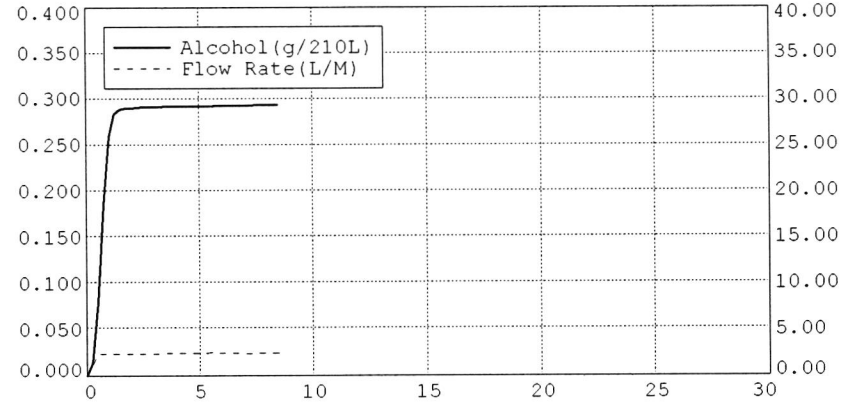
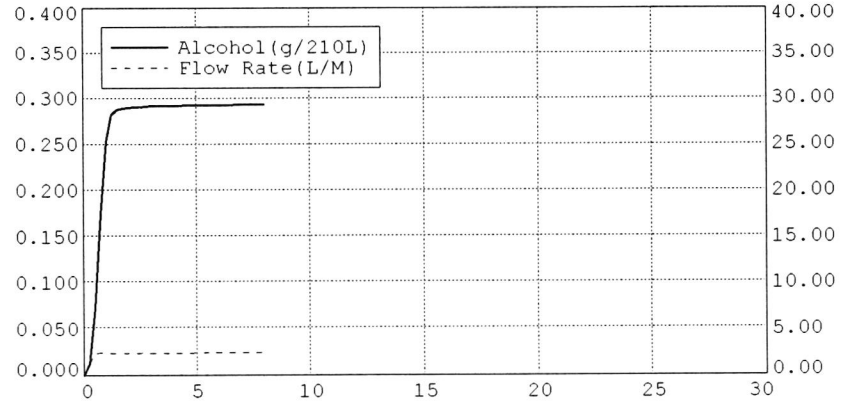
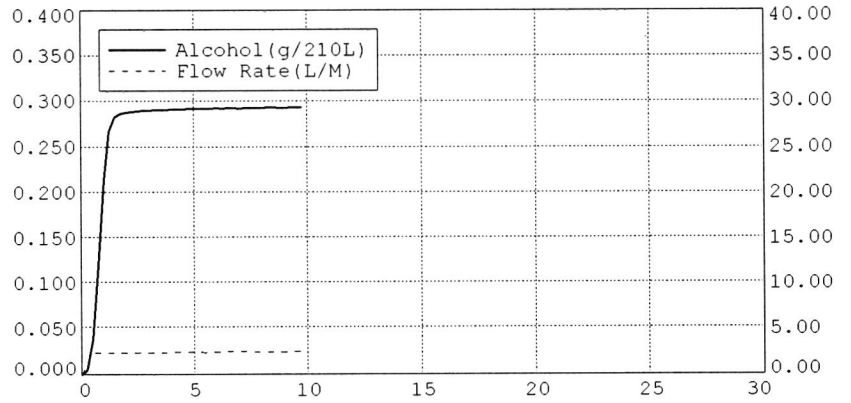
Date: 11/14/2022
 Time: 11:41:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.92: 0.300
 LOT #: AG130502
 EXPIRATION: 11/01/2023
 TANK PRESSURE: 398 psi

BLANK TEST	0.000	11:43
INTERNAL STANDARD	VERIFIED	11:43
EXTERNAL STANDARD	0.293	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.293	11:45
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.293	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.293	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.293	11:48
BLANK TEST	0.000	11:49

Average = 0.2930
 Std Dev = 0.0000



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 11/14/2022
Time: 11:59:21

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

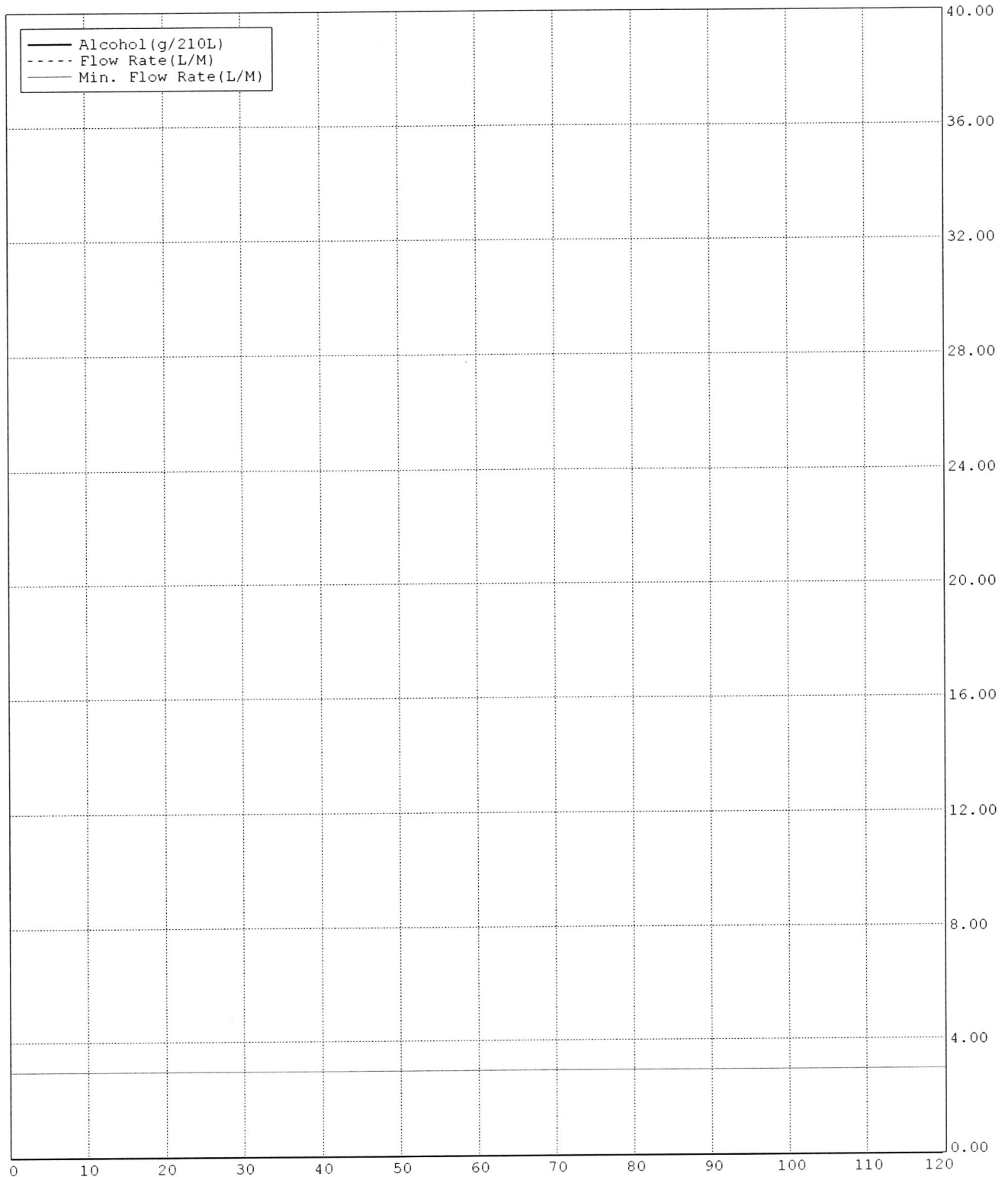
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:01
BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:01
EXTERNAL STANDARD	0.079	12:01
BLANK TEST	0.000	12:02
SUBJECT SAMPLE	INCOMPLETE	12:04

DMW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 11/14/2022
Time: 12:15:54

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

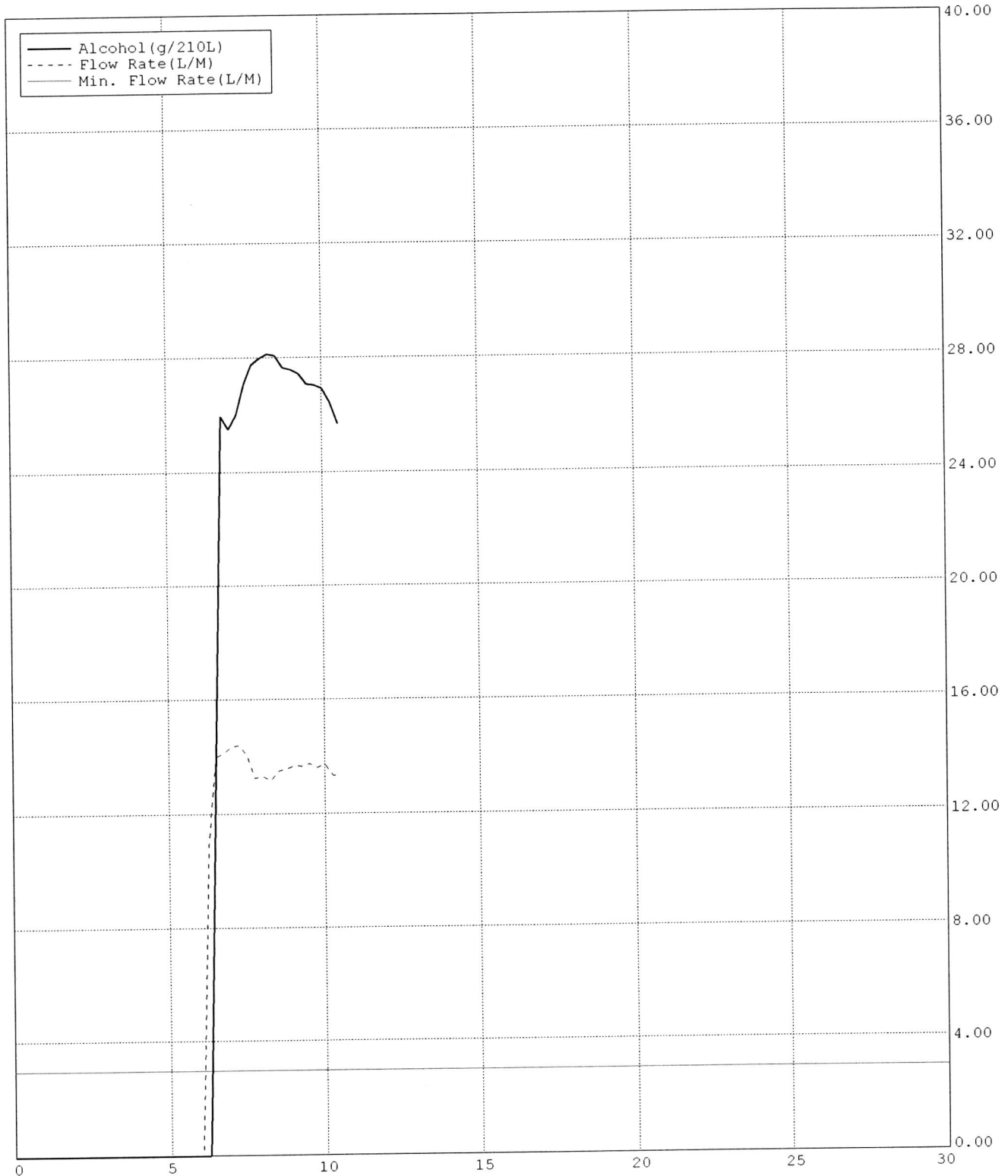
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:17
BLANK TEST	0.000	12:17
INTERNAL STANDARD	VERIFIED	12:17
EXTERNAL STANDARD	0.079	12:17
BLANK TEST	0.000	12:18
SUBJECT SAMPLE	INVALID	12:18

DMW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 11/14/2022
Time: 12:10:17

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

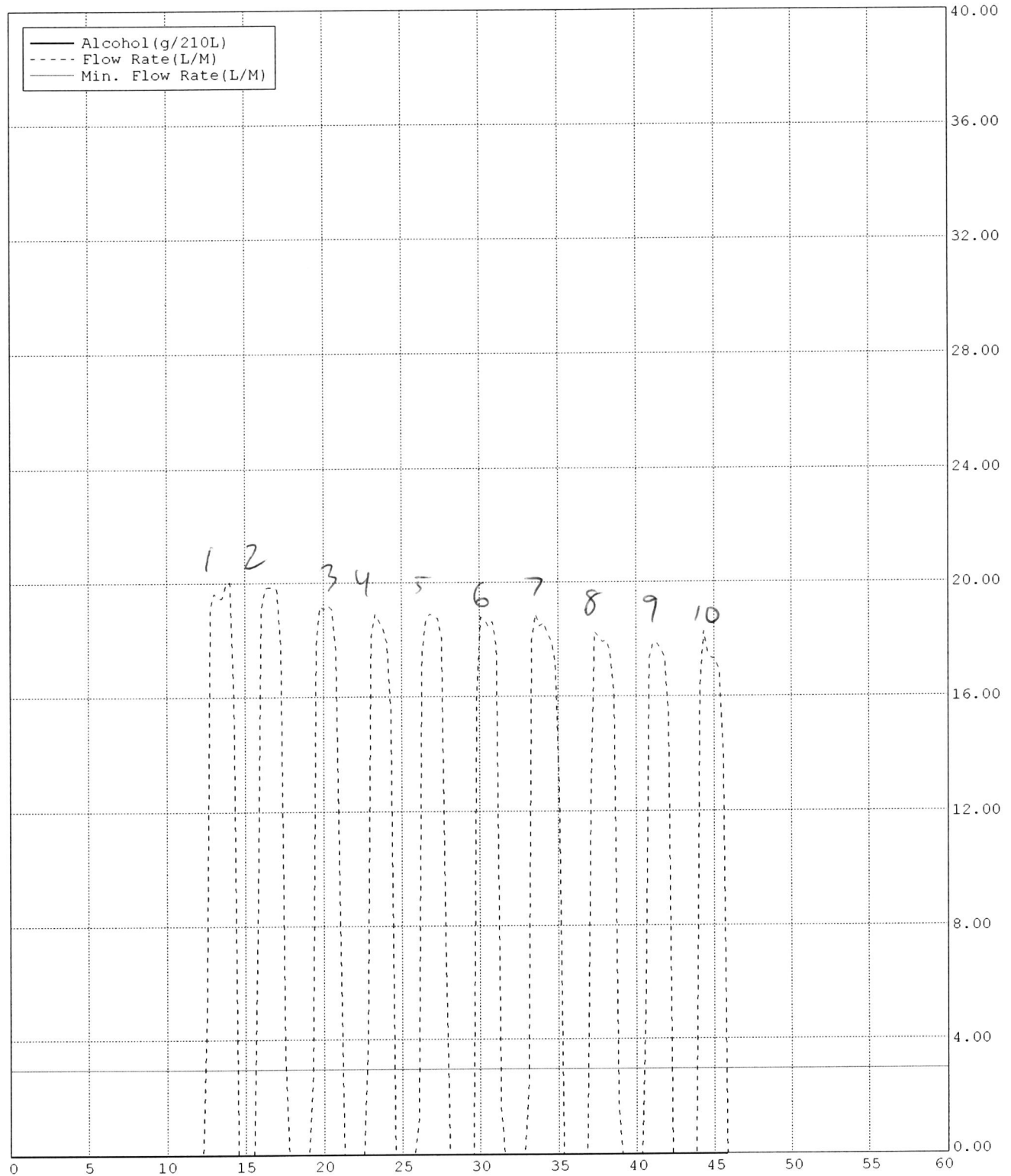
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:11
BLANK TEST	0.000	12:11
INTERNAL STANDARD	VERIFIED	12:11
EXTERNAL STANDARD	0.079	12:11
BLANK TEST	0.000	12:12
SUBJECT SAMPLE	XXX	12:13

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 11/14/2022
Time: 12:21:43

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

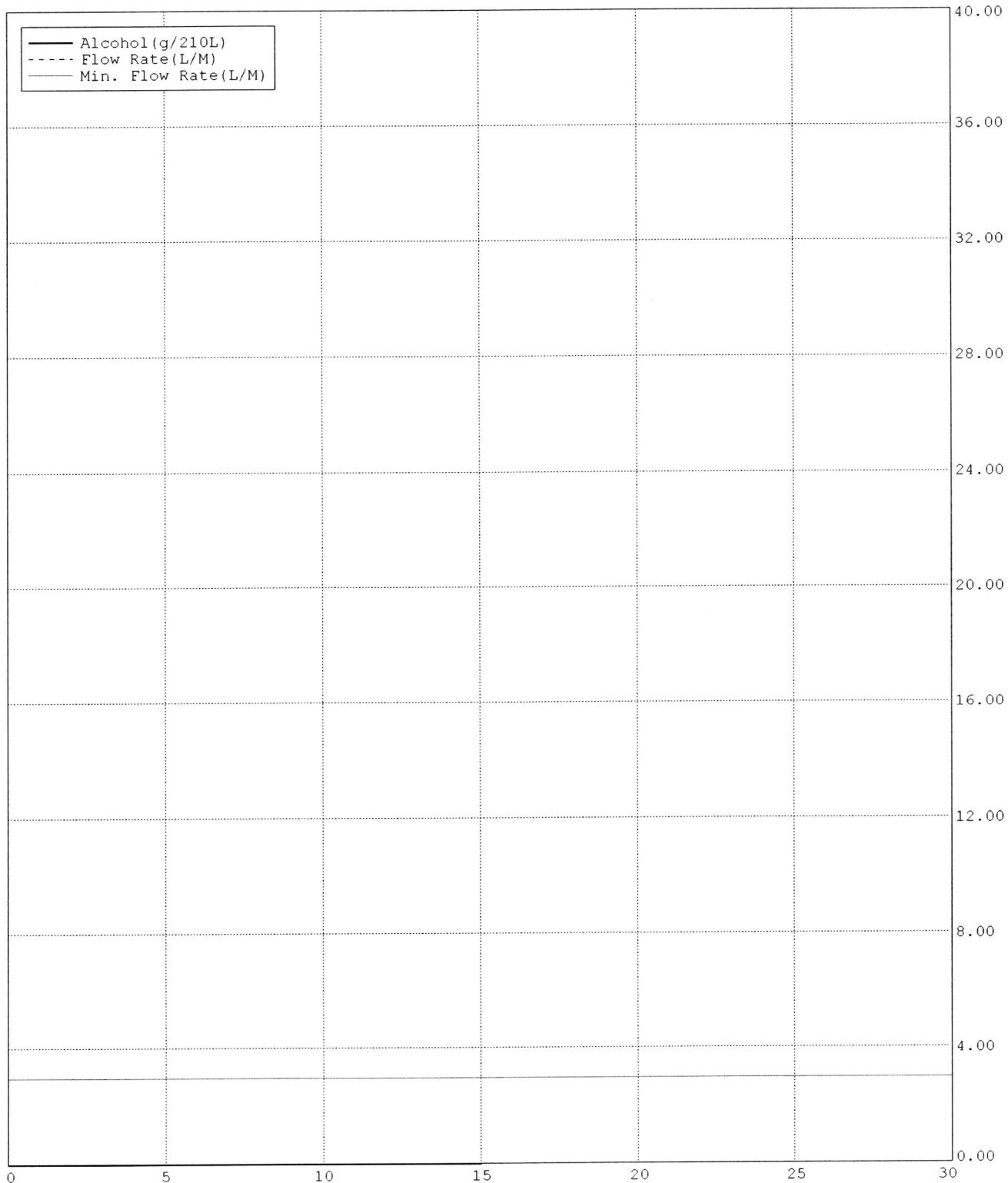
DEPT/AGENCY:
RADIO FREQUENCY
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:22
BLANK TEST	0.000	12:23
INTERNAL STANDARD	VERIFIED	12:23
EXTERNAL STANDARD	0.079	12:23
BLANK TEST	0.000	12:24

RFI DETECTED

Dm



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 11/14/2022
Time: 12:39:43

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

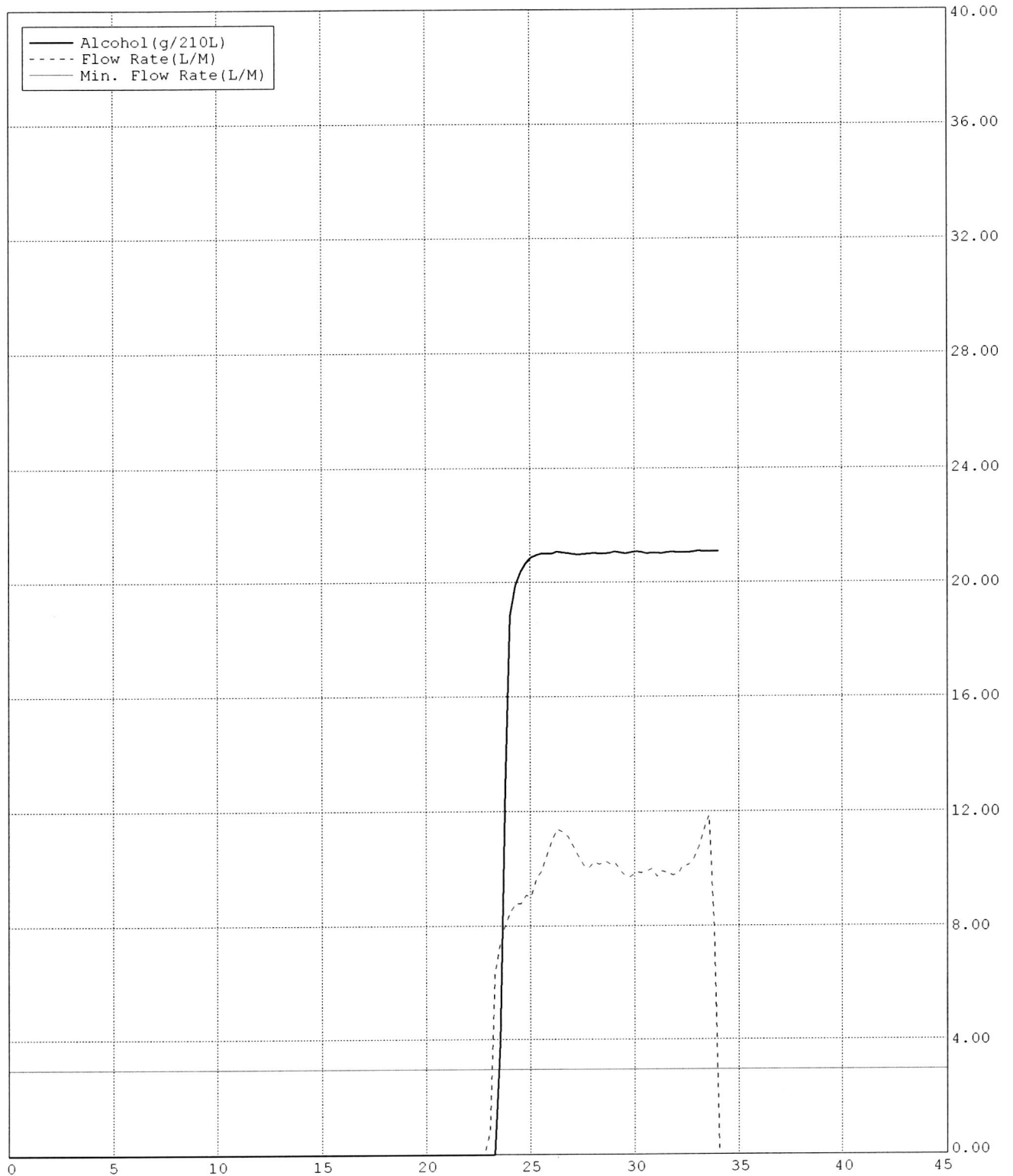
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:40
BLANK TEST	0.000	12:40
INTERNAL STANDARD	VERIFIED	12:40
Xq = 0.098 (2.57%)		
EXTERNAL STANDARD	0.079	12:41
X[1] = 0.0786 (-0.0012) (0.0033)		
BLANK TEST	0.000	12:42
SUBJECT SAMPLE	XXX	12:42
X[1] = 0.1056 (-0.0200) (0.0005)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 11/14/2022
Time: 12:46:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

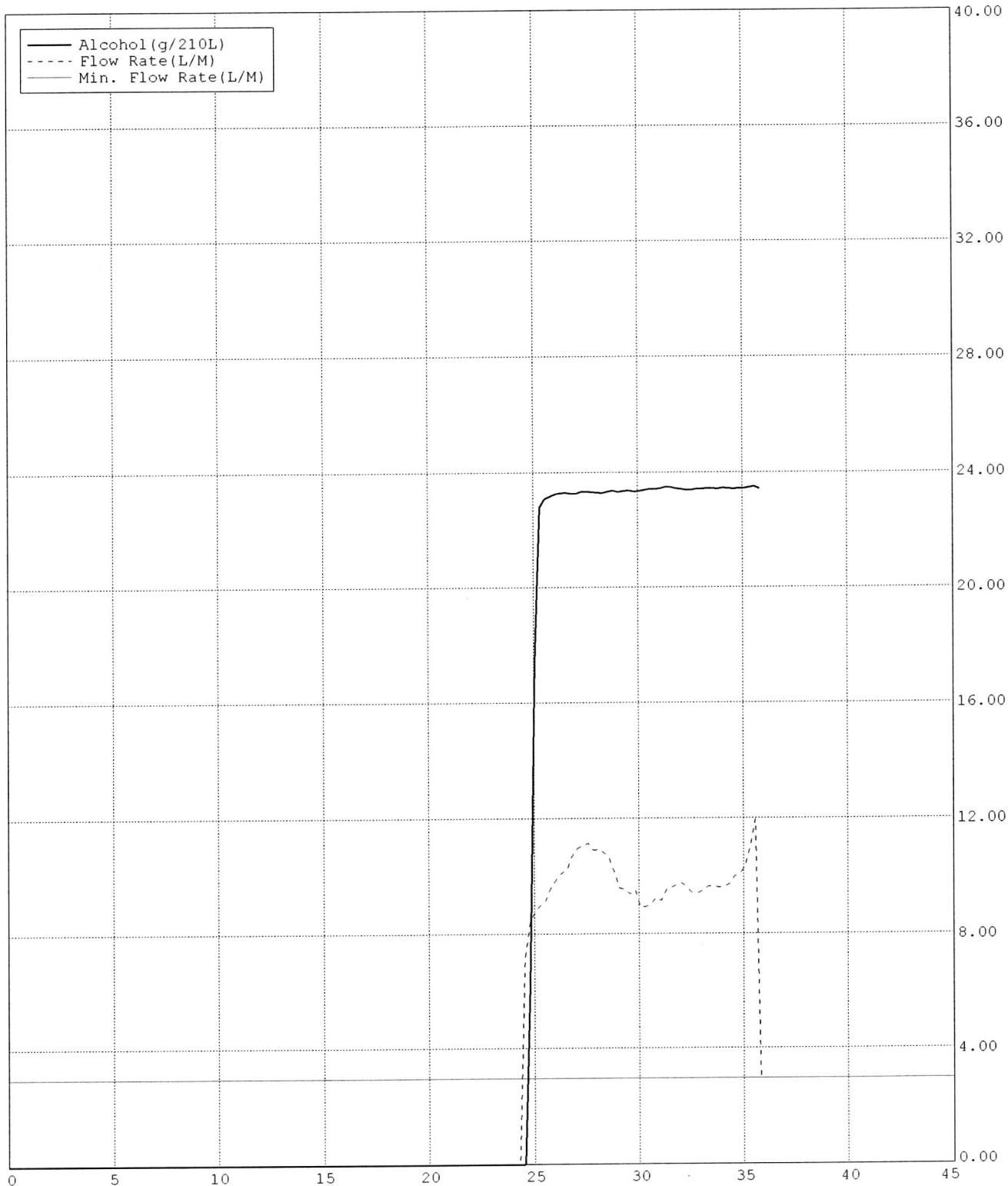
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:48
BLANK TEST	0.000	12:48
INTERNAL STANDARD	VERIFIED	12:48
Xq = 0.098 (2.85%)		
EXTERNAL STANDARD	0.078	12:48
X[1] = 0.0783 (-0.0022) (0.0020)		
BLANK TEST	0.000	12:49
SUBJECT SAMPLE	XXX	12:50
X[1] = 0.1173 (-0.0303) (0.0019)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 11/14/2022
Time: 12:52:08

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

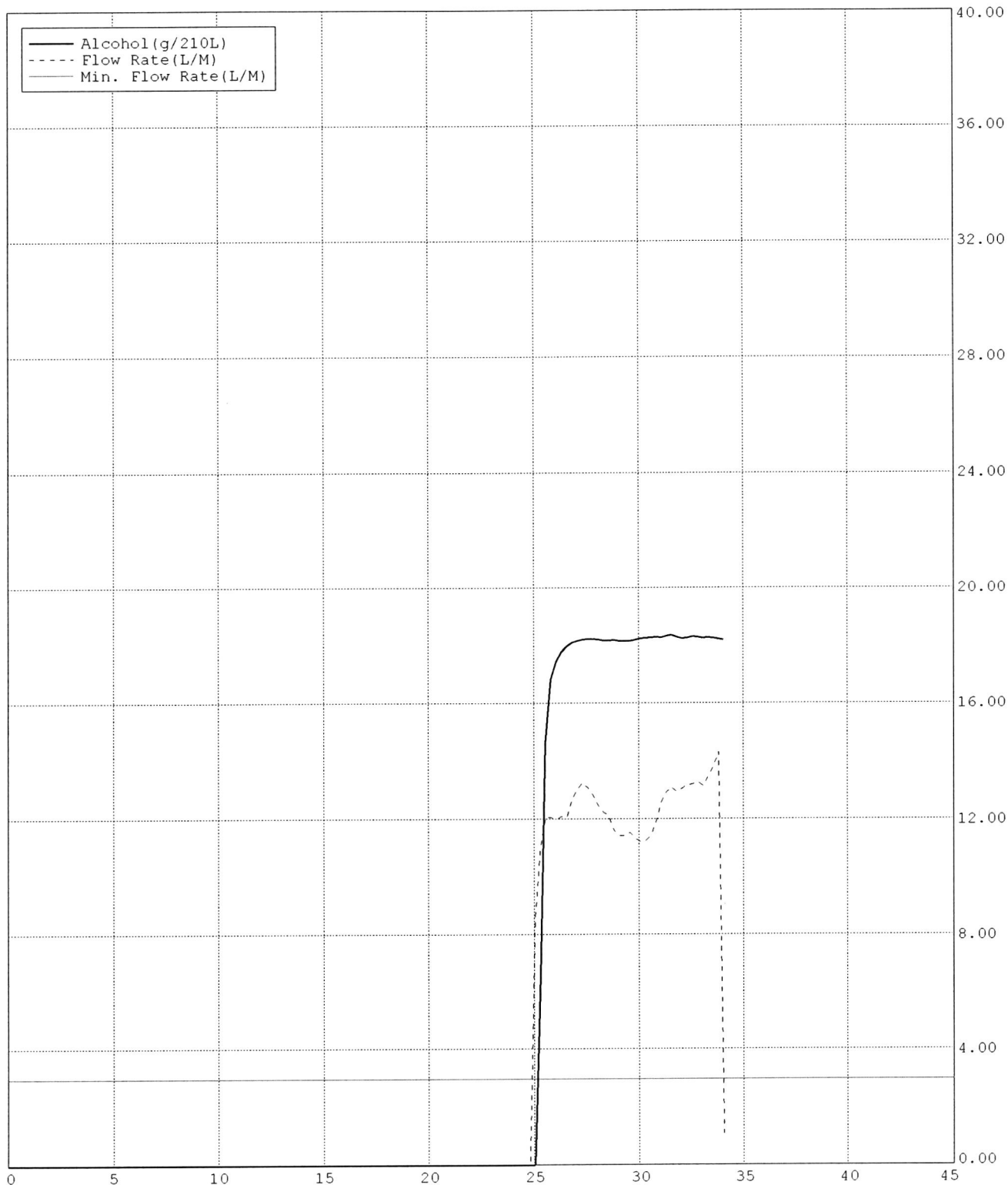
DEPT/AGENCY:
INTERFERENCE NEGATIVE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:53
BLANK TEST	0.000	12:53
INTERNAL STANDARD	VERIFIED	12:53
Xq = 0.098 (2.76%)		
EXTERNAL STANDARD	0.079	12:53
X[1] = 0.0787 (-0.0021) (0.0024)		
BLANK TEST	0.000	12:54
SUBJECT SAMPLE (Vol=1.85L)	0.091	12:55
X[1] = 0.0917 (0.0008) (0.0009)		
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.079	12:56
X[1] = 0.0787 (-0.0009) (0.0023)		
BLANK TEST	0.000	12:57

Filter 2 Average: -0.0016
Filter 3 Average: 0.0025
DJW 11/15/2022

DJW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 11/14/2022
Time: 13:57:44

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 29.95: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:59
BLANK TEST	0.000	13:59
INTERNAL STANDARD	VERIFIED	13:59
EXTERNAL STANDARD	0.079	13:59
BLANK TEST	0.000	14:00
SUBJECT SAMPLE (Vol=1.86L)	0.000	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.079	14:02
BLANK TEST	0.000	14:03

DW

