

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100404 Analyst: C. OBryant Start Date: 11/29/21

- Diagnostic Test (attached)
- Adjust voltages, if needed
 - Lamp (2.6V Maximum)
 - Bias
 - Cooler (2.0V Maximum)
- Internal Standard value \leq 3.00%
 - Chopper Frequency
 - Detector Voltage (-0.100V to 0.100V)
- Set RFI Sensitivity
- Adjust barometer reading to match NIST traceable barometer
- Adjust volume setting, if needed (1.5L +/- 0.1L)
- Print Technician Screen (attached)
- Print Calibration Factors (attached)
- Minimum Volume Test 1.6 L (1.3L to 1.7L)

Linearity Test (attached)

0.020g/210L Mnf: Argas Lot: AG100401 Exp: 1/4/23
0.040g/210L Mnf: Argas Lot: AG111710 Exp: 4/27/23
0.080g/210L Mnf: Argas Lot: AG018102 Exp: 6/29/22
0.100g/210L Mnf: Argas Lot: AG108404 Exp: 3/25/23
0.200g/210L Mnf: Guth Lot: 20510 Exp: 12/3/22
Simulator S/N: DR4161 Date Calibrated: 6/16/21
0.300g/210L Mnf: Guth Lot: 21080 Exp: 2/12/23
Simulator S/N: SD1002 Date Calibrated: 6/15/21

Functional Tests (attached)

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

Acetone Mnf: Life10C Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
Simulator S/N: SD1177 Date Calibrated: 6/15/21
Isopropanol Mnf: Life10C Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
Simulator S/N: SD1198 Date Calibrated: 6/15/21
Neg. Control Mnf: Life10C Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
Simulator S/N: SD1088 Date Calibrated: 6/15/21

- Verify stylus is calibrated
- Reset Options
- Clear Memory
- Verification of Calibration
- Non-Drinking Subject Test
- Upload
- Remove Tank Prior to Shutdown
- Add Linearity Data to Spreadsheet

End Date: 11/30/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 11/29/2021
Time: 13:26:48

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 = 44.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.69 V PASSED
(1.06 V - 2.48 V)
Cooler Voltage = 1.71 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 82 V PASSED
(49 V - 115 V)
Chopper Freq = 533 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.1 in

PUMP INFO

Flow Rate = 4.339 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 = 0.089 0.10% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100404

Date: 11/29/2021
Time: 2:33 PM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 46.6°C

Current Barometer 29.3 in
Volume (Ltr) 1.57

Settings

Lamp: 1.80 V
Bias: 82 V
Cooler: 1.75 V
Chopper: 532 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.041 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 05/18/2011
Time: 14:02:44

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 01/01/2012

Ca = 0.1000
CAL = 0.970035 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0071 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.0888 0.0500 <= Xq < 0.2000
a21 = 1.183100 1.050 <= a21 < 1.300
a31 = 0.434619 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100404

Date: 11/29/2021

Time: 14:34:52

SUBJECT NAME:

TEST TEST

LICENSE #: MIN VOLUME

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 21-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

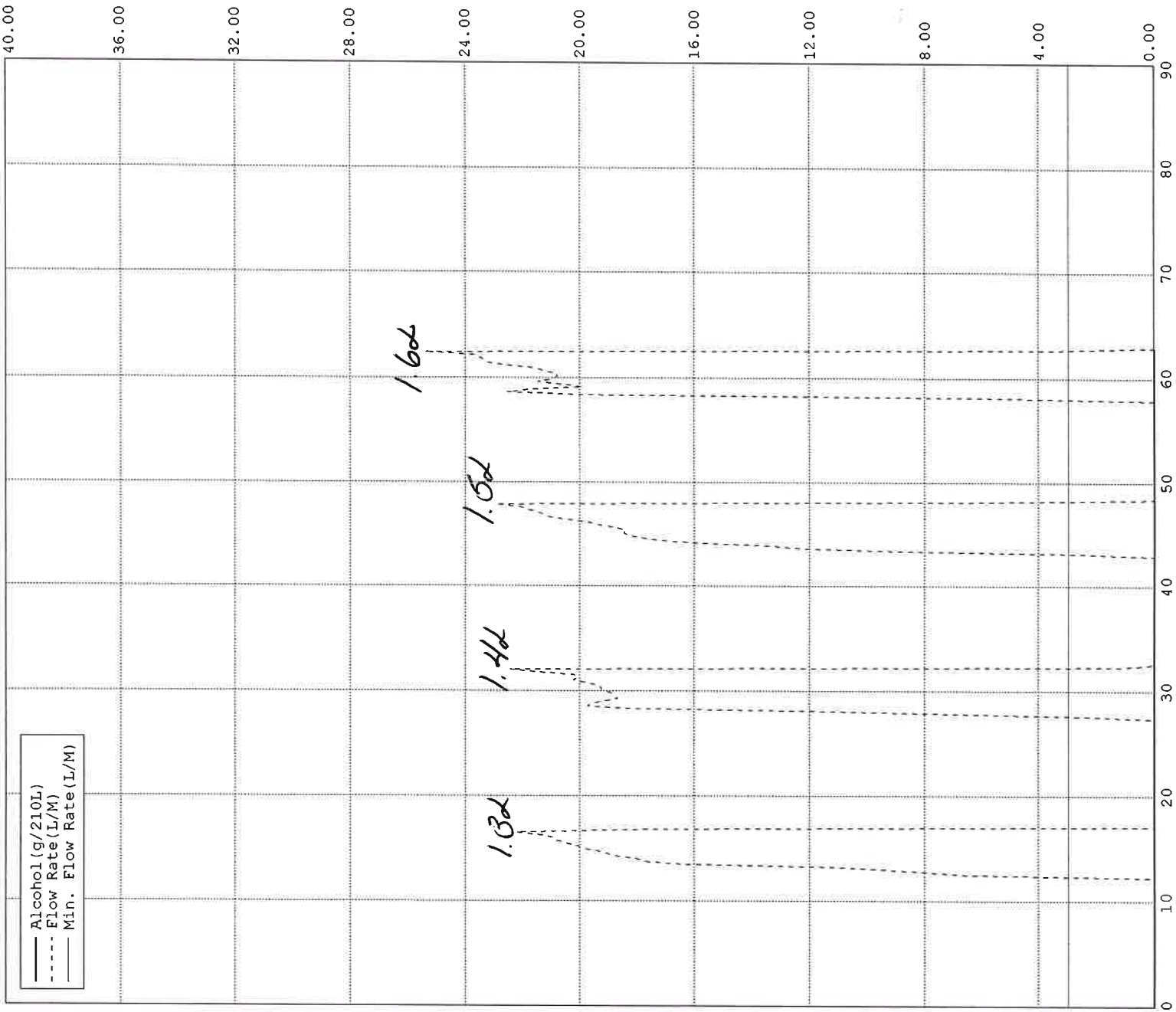
TARGET AT 29.30: 0.078

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:36
BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
EXTERNAL STANDARD	0.078	14:37
BLANK TEST	0.000	14:38
SUBJECT SAMPLE (Vol=1.59L)	0.000	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.077	14:40
BLANK TEST	0.000	14:41

COB



LINEARITY CHECK

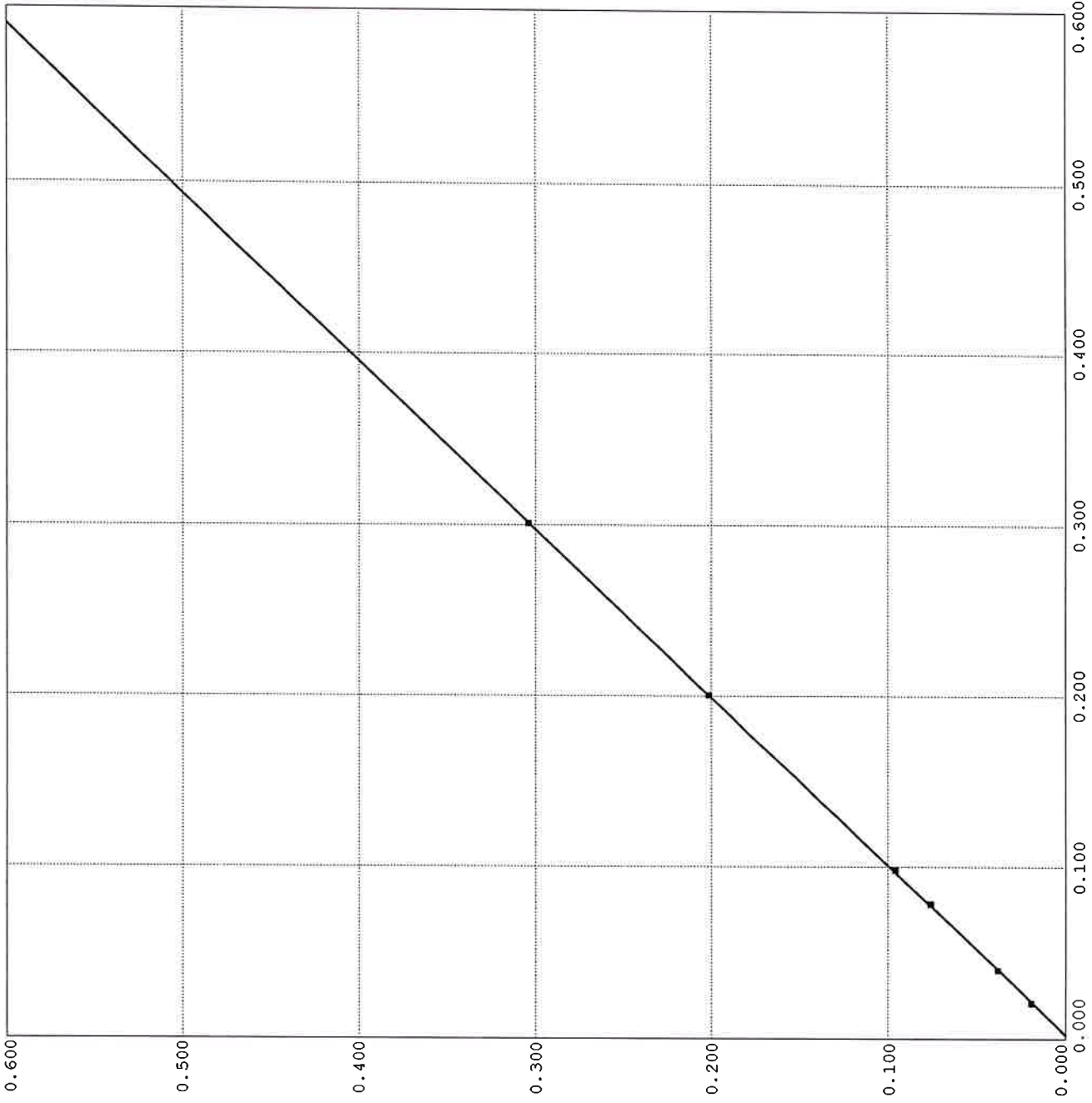
Alaska Department of Public Safety
 DATAMASTER dmt: 100404

Date: 11/29/2021
 Time: 14:44:25

SUPERVISOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0390	0.0000
0.078	0.0770	0.0000
0.098	0.0970	0.0000
0.200	0.2022	0.0004
0.300	0.3048	0.0004

SLOPE = 1.018959
 R² = 0.999916



COB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100404

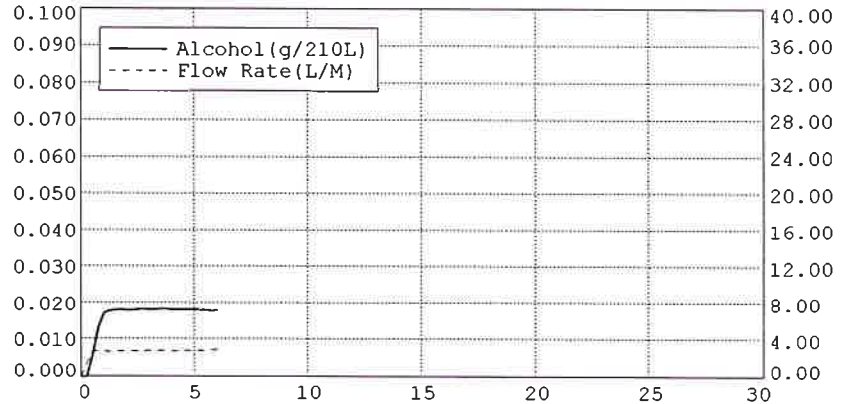
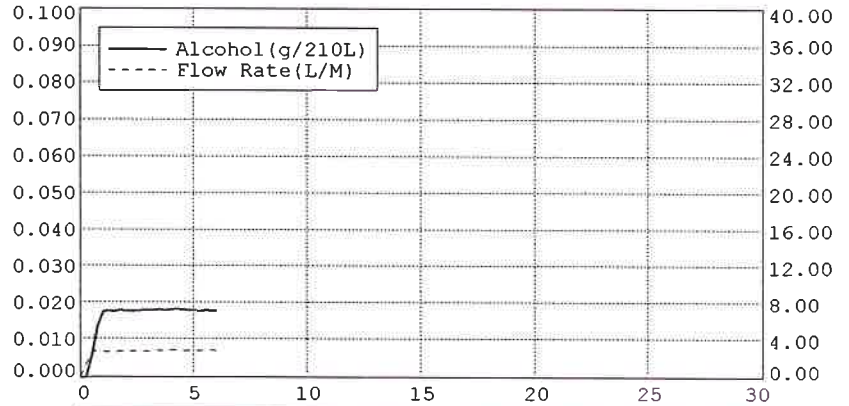
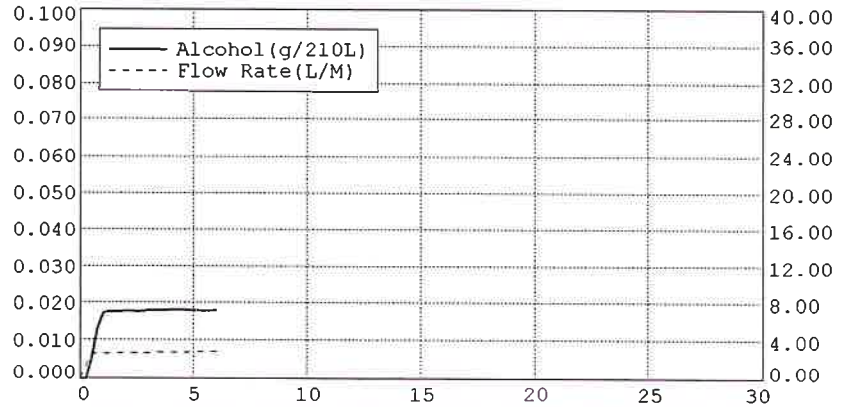
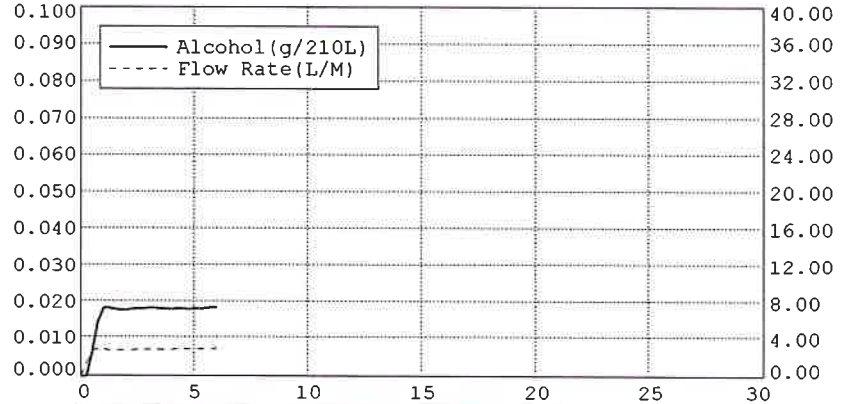
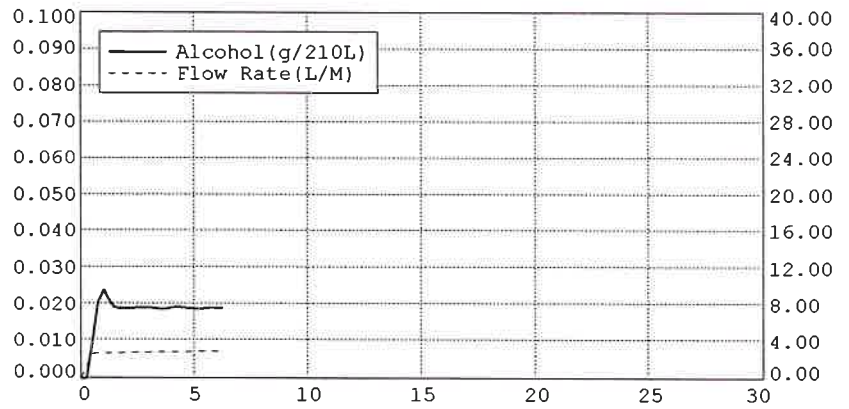
Date: 11/29/2021
Time: 14:44:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.28: 0.020
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 865 psi

BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:51
EXTERNAL STANDARD	0.020	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.020	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.020	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.020	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.020	14:56
BLANK TEST	0.000	14:57

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100404

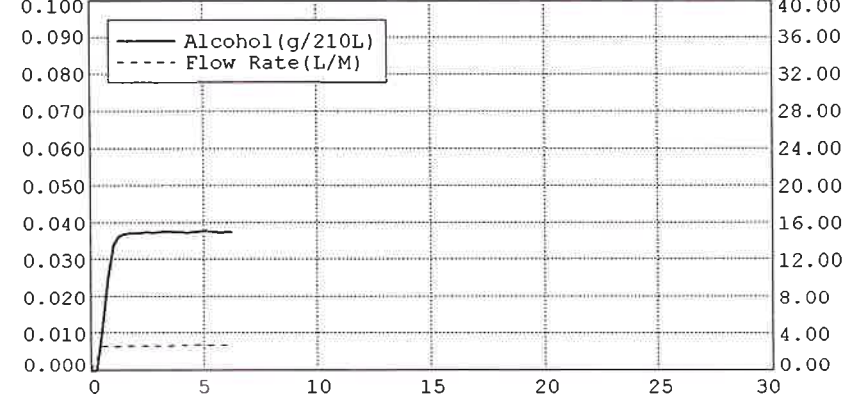
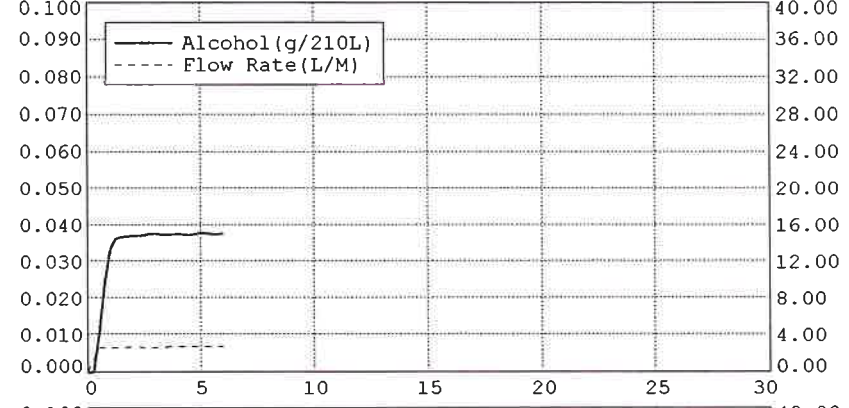
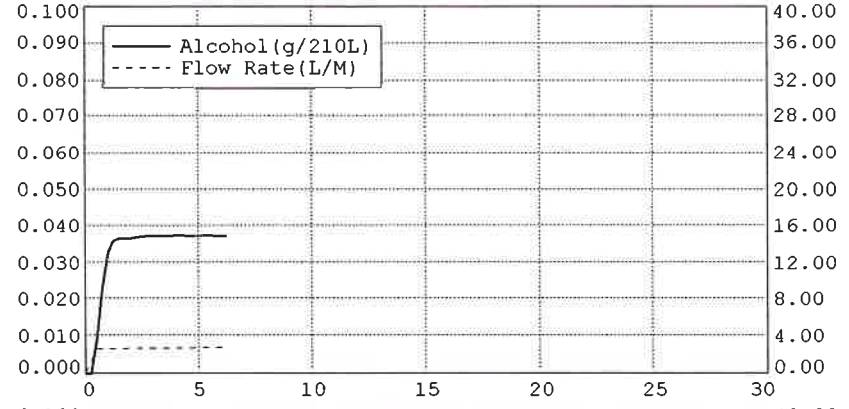
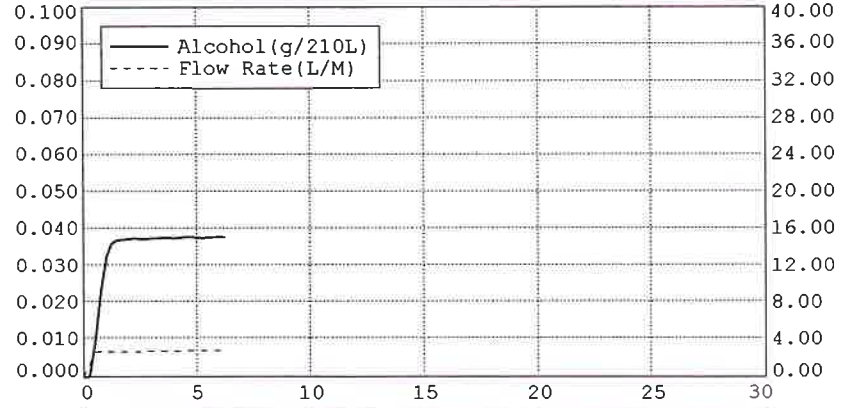
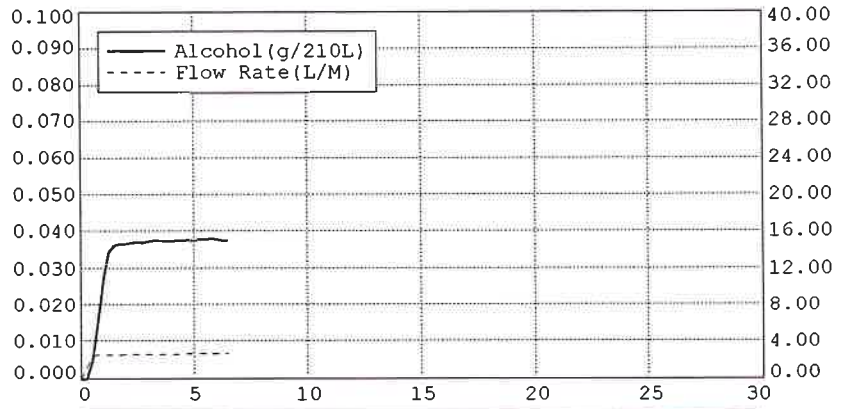
Date: 11/29/2021
Time: 15:06:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.27: 0.039
LOT #: AG111710
EXPIRATION: 04/27/2023
TANK PRESSURE: 546 psi

BLANK TEST	0.000	15:07
INTERNAL STANDARD	VERIFIED	15:07
EXTERNAL STANDARD	0.039	15:08
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.039	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.039	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.039	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.039	15:12
BLANK TEST	0.000	15:13

Average = 0.0390
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100404

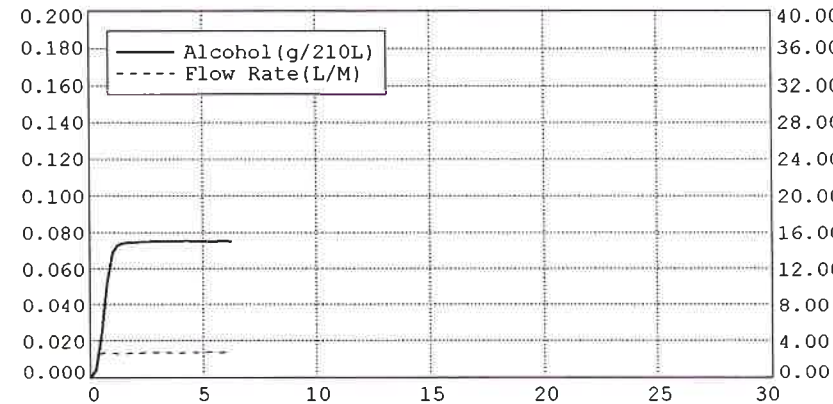
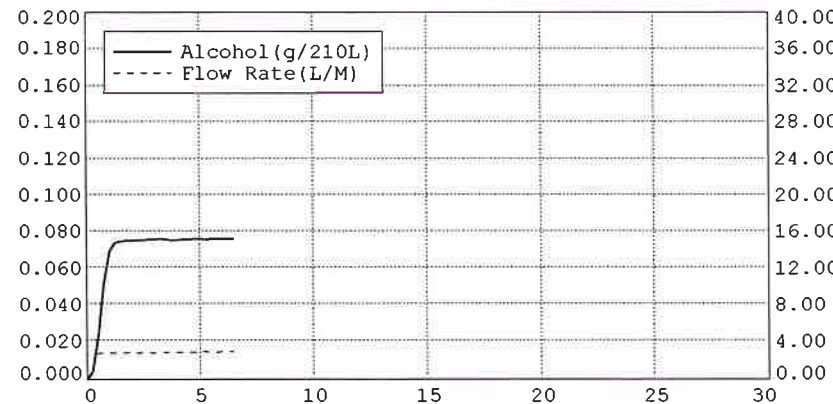
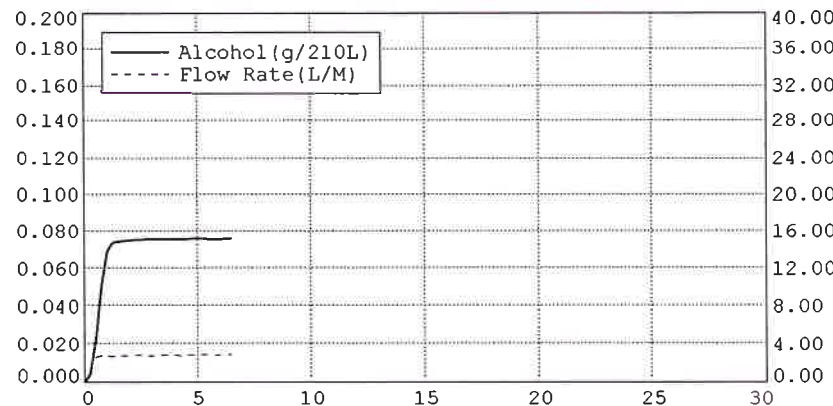
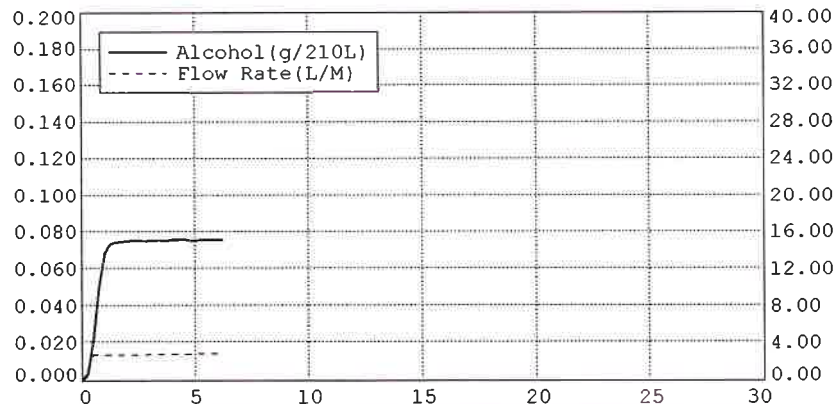
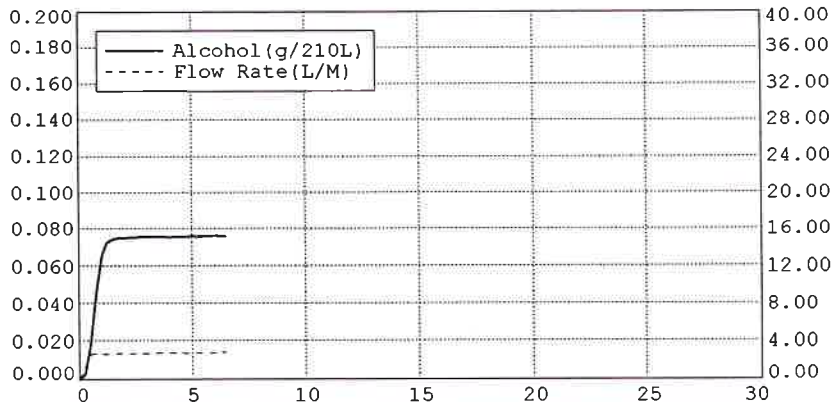
Date: 11/29/2021
 Time: 15:35:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.25: 0.078
 LOT #: ~~AG108404~~ AG018102 COB 12/9/21
 EXPIRATION: ~~03/25/2023~~ 06/29/2022
 TANK PRESSURE: 886 psi

BLANK TEST	0.000	15:36
INTERNAL STANDARD	VERIFIED	15:37
EXTERNAL STANDARD	0.077	15:37
BLANK TEST	0.000	15:38
EXTERNAL STANDARD	0.077	15:38
BLANK TEST	0.000	15:39
EXTERNAL STANDARD	0.077	15:39
BLANK TEST	0.000	15:40
EXTERNAL STANDARD	0.077	15:40
BLANK TEST	0.000	15:41
EXTERNAL STANDARD	0.077	15:41
BLANK TEST	0.000	15:42

Average = 0.0770
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100404

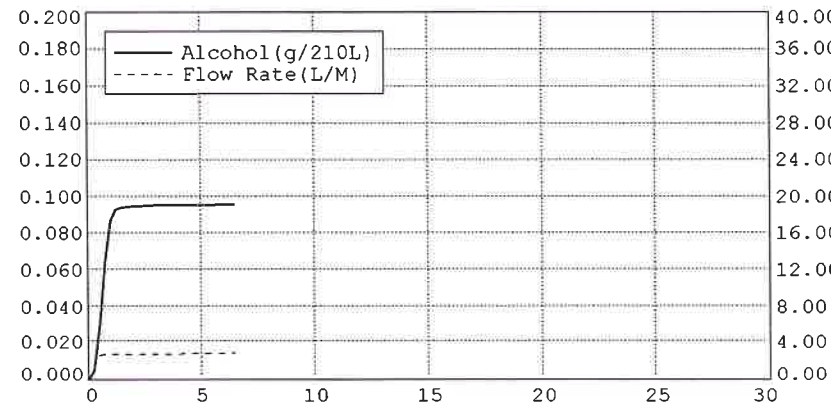
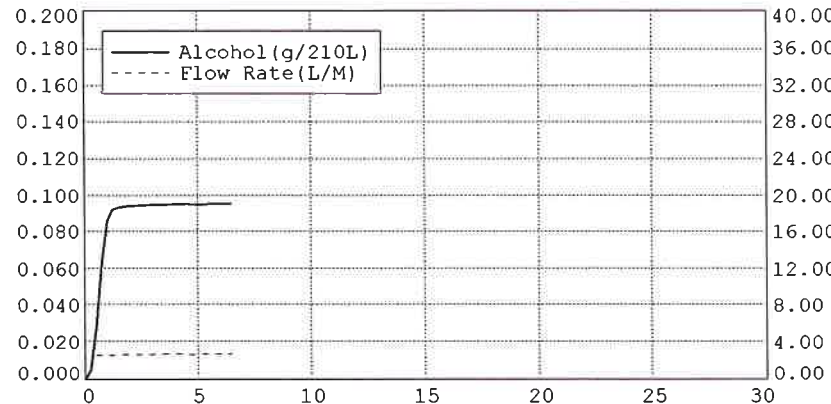
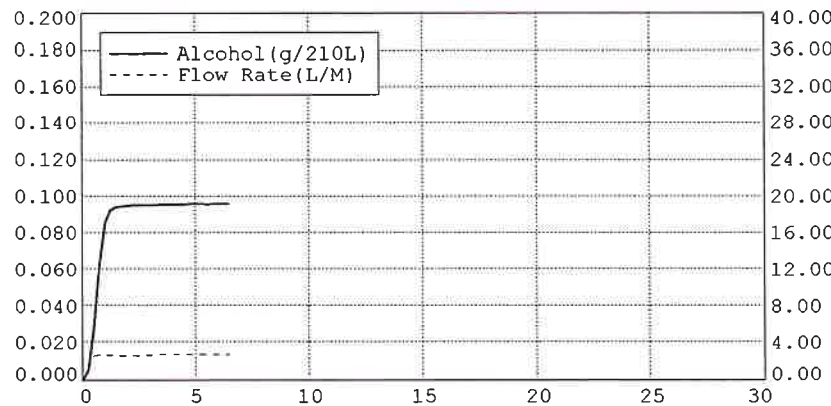
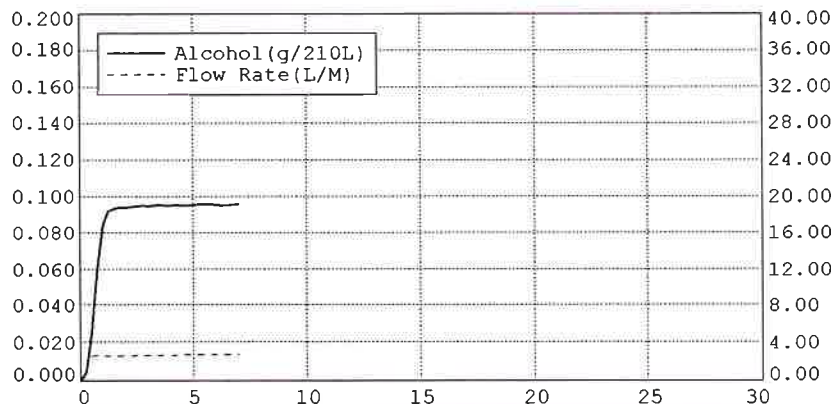
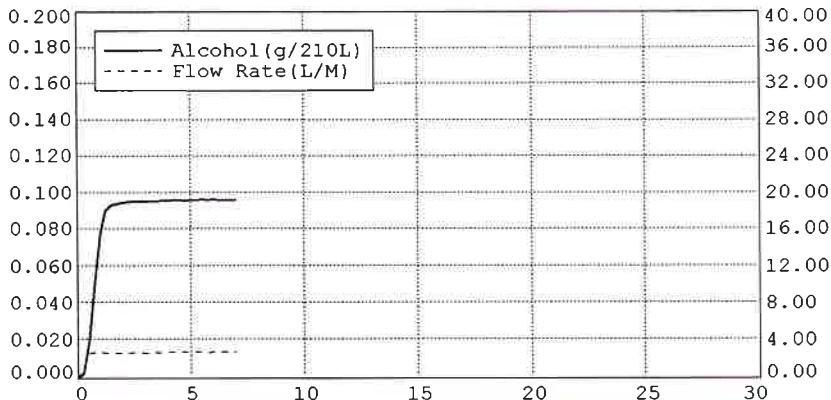
Date: 11/29/2021
 Time: 15:42:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.25: 0.098
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 632 psi

BLANK TEST	0.000	15:44
INTERNAL STANDARD	VERIFIED	15:44
EXTERNAL STANDARD	0.097	15:44
BLANK TEST	0.000	15:45
EXTERNAL STANDARD	0.097	15:45
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.097	15:46
BLANK TEST	0.000	15:47
EXTERNAL STANDARD	0.097	15:47
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.097	15:48
BLANK TEST	0.000	15:49

Average = 0.0970
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

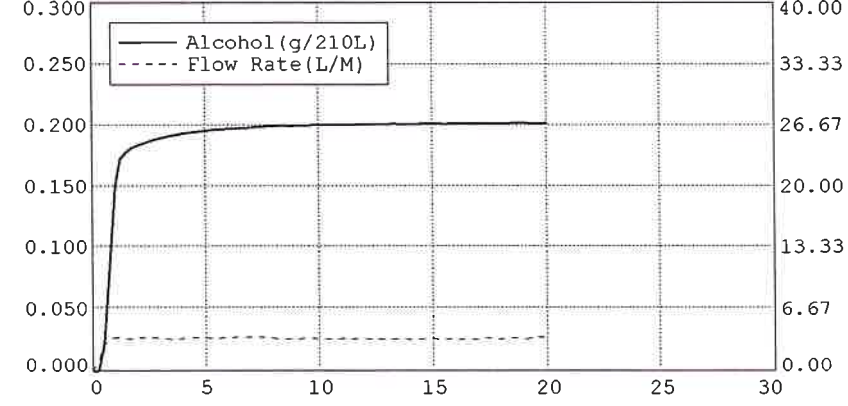
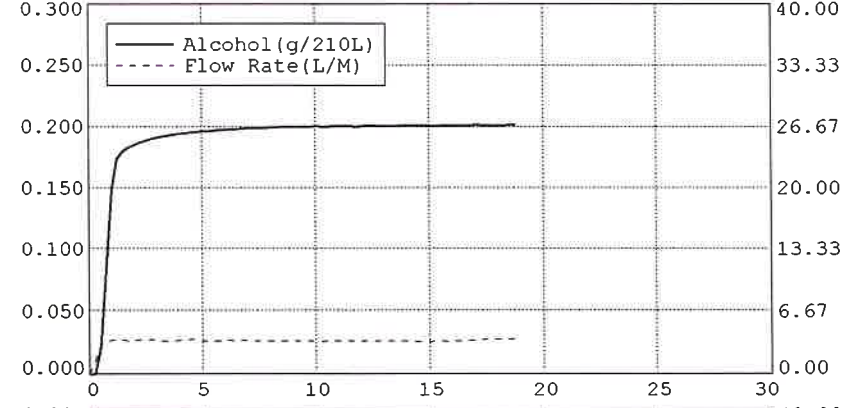
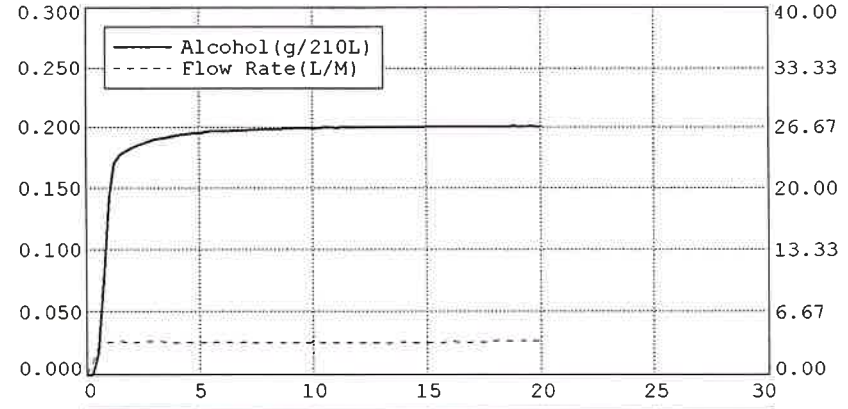
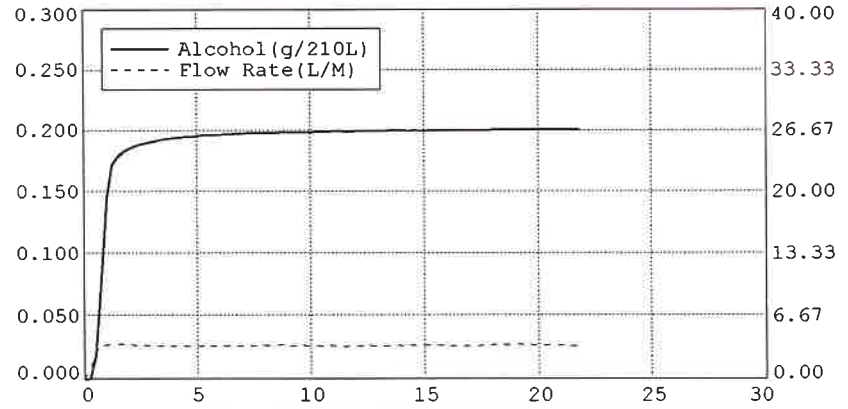
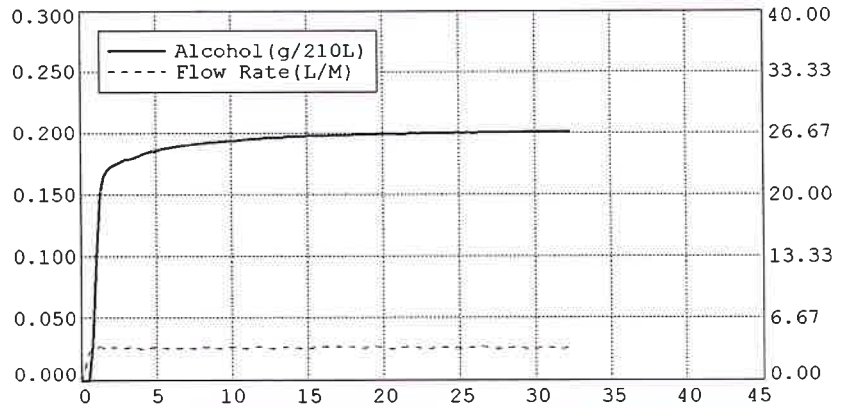
Alaska Department of Public Safety
 DATAMASTER dmt: 100404

Date: 11/29/2021
 Time: 15:51:14

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 20510
 EXPIRATION: 12/03/2022

BLANK TEST	0.000	15:52
INTERNAL STANDARD	VERIFIED	15:52
EXTERNAL STANDARD	0.202	15:53
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.202	15:54
BLANK TEST	0.000	15:55
EXTERNAL STANDARD	0.202	15:55
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.202	15:57
BLANK TEST	0.000	15:58
EXTERNAL STANDARD	0.203	15:58
BLANK TEST	0.000	15:59

Average = 0.2022
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100404

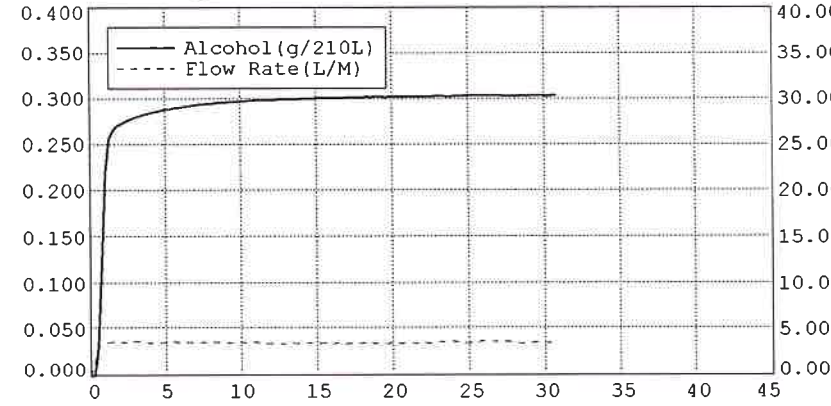
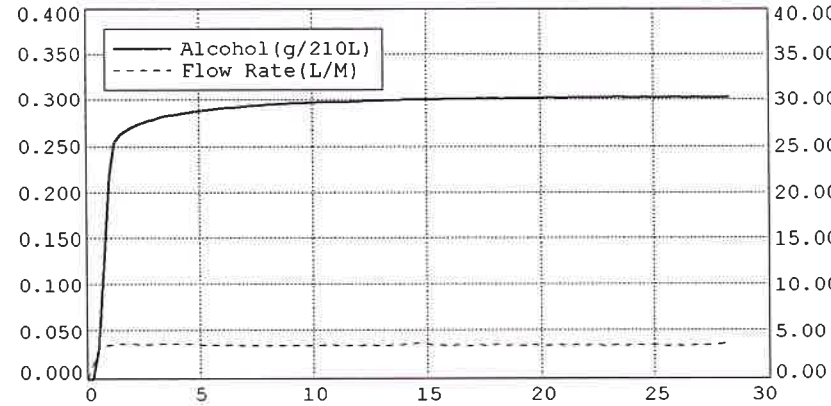
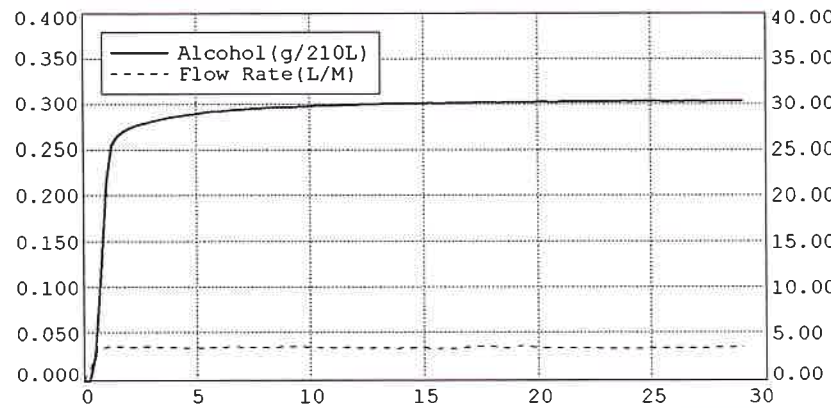
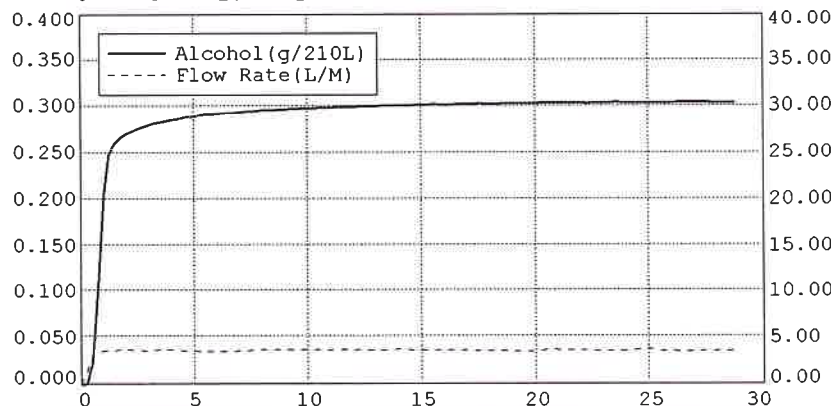
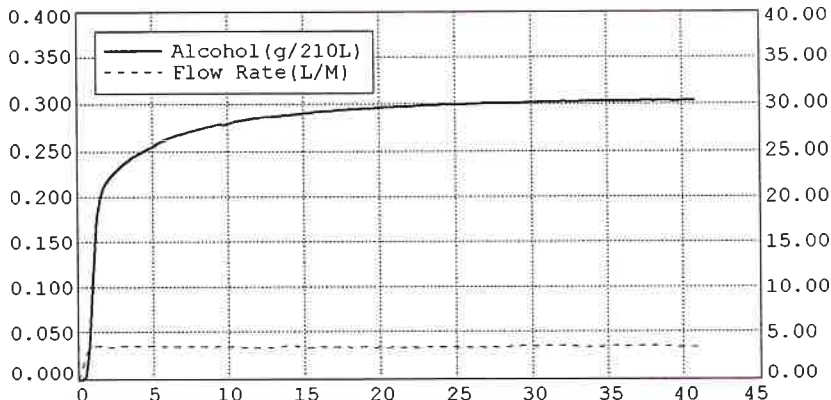
Date: 11/29/2021
 Time: 16:00:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 21030
 EXPIRATION: 02/02/2023

BLANK TEST	0.000	16:01
INTERNAL STANDARD	VERIFIED	16:01
EXTERNAL STANDARD	0.305	16:02
BLANK TEST	0.000	16:03
EXTERNAL STANDARD	0.305	16:03
BLANK TEST	0.000	16:04
EXTERNAL STANDARD	0.305	16:05
BLANK TEST	0.000	16:06
EXTERNAL STANDARD	0.304	16:06
BLANK TEST	0.000	16:07
EXTERNAL STANDARD	0.305	16:08
BLANK TEST	0.000	16:09

Average = 0.3048
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 11/29/2021
Time: 16:13:19

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

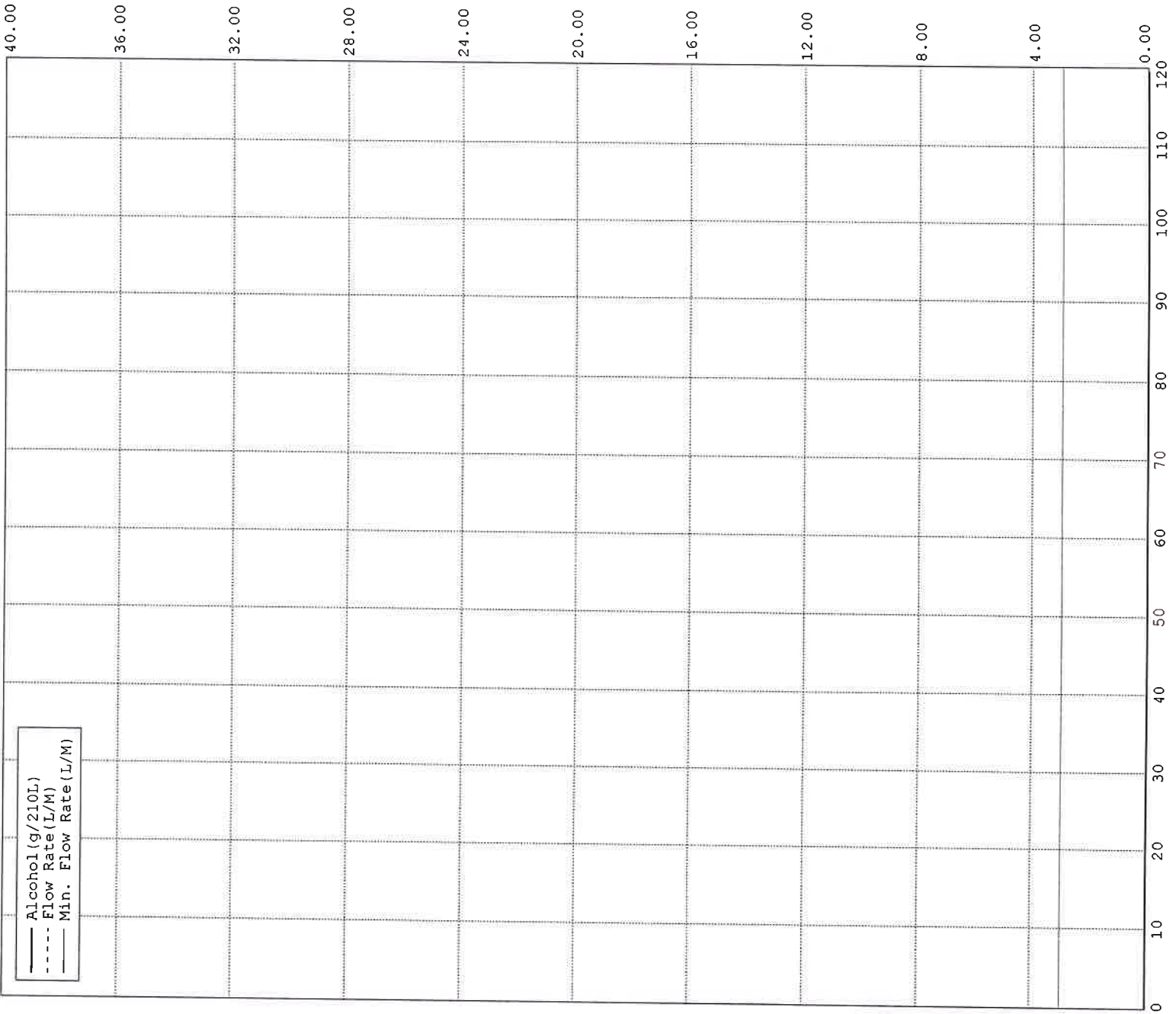
DEPT/AGENCY:
AAA1

CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 16:24
BLANK TEST 0.000 16:25
INTERNAL STANDARD VERIFIED 16:25
EXTERNAL STANDARD 0.077 16:25
BLANK TEST 0.000 16:26
SUBJECT SAMPLE INCOMPLETE 16:28



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 11/29/2021
Time: 16:42:46

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

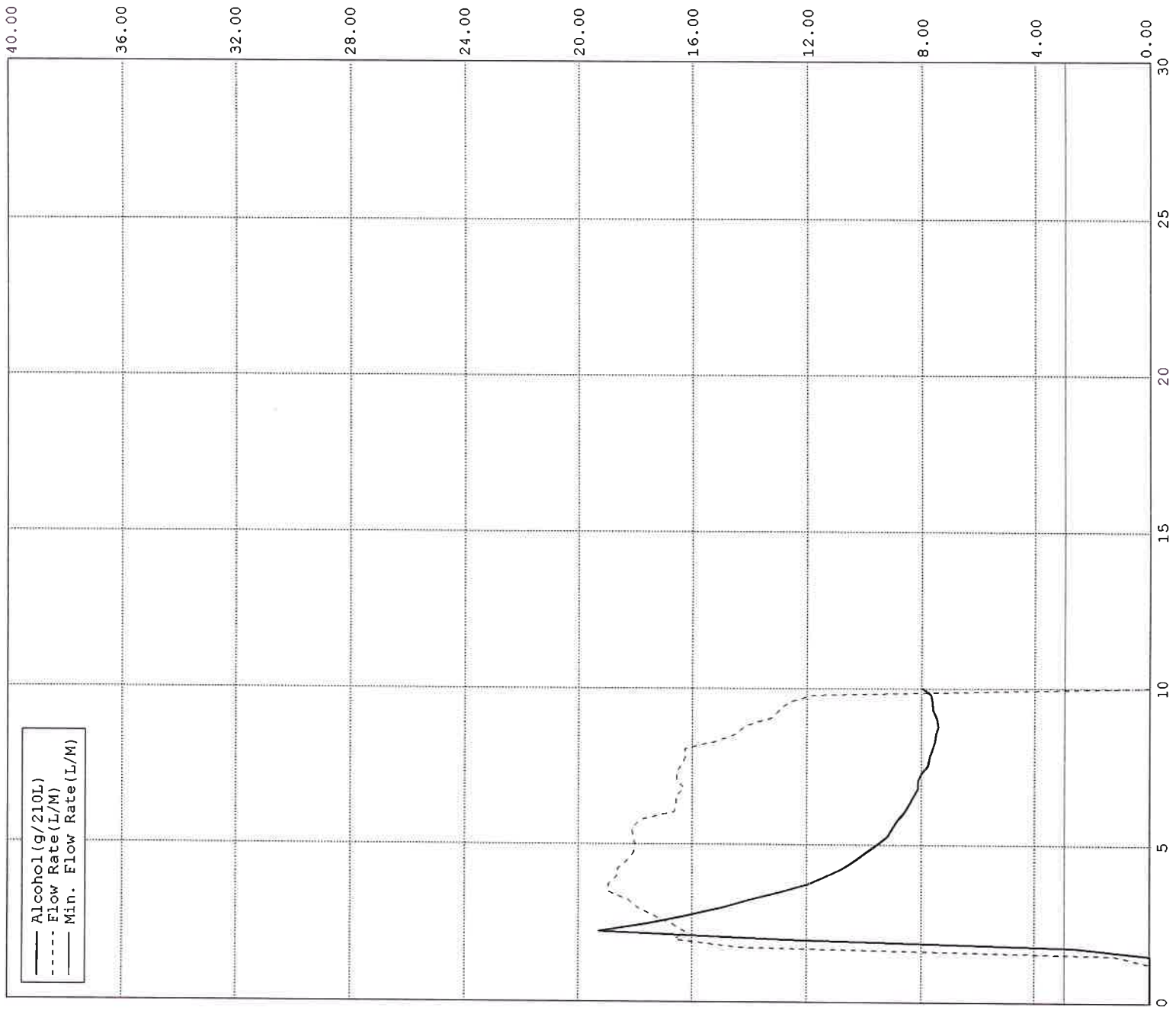
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.20: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 16:43
BLANK TEST 0.000 16:44
INTERNAL STANDARD VERIFIED 16:44
EXTERNAL STANDARD 0.077 16:44
BLANK TEST 0.000 16:45
SUBJECT SAMPLE INVALID 16:45

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 11/30/2021
Time: 08:45:18

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

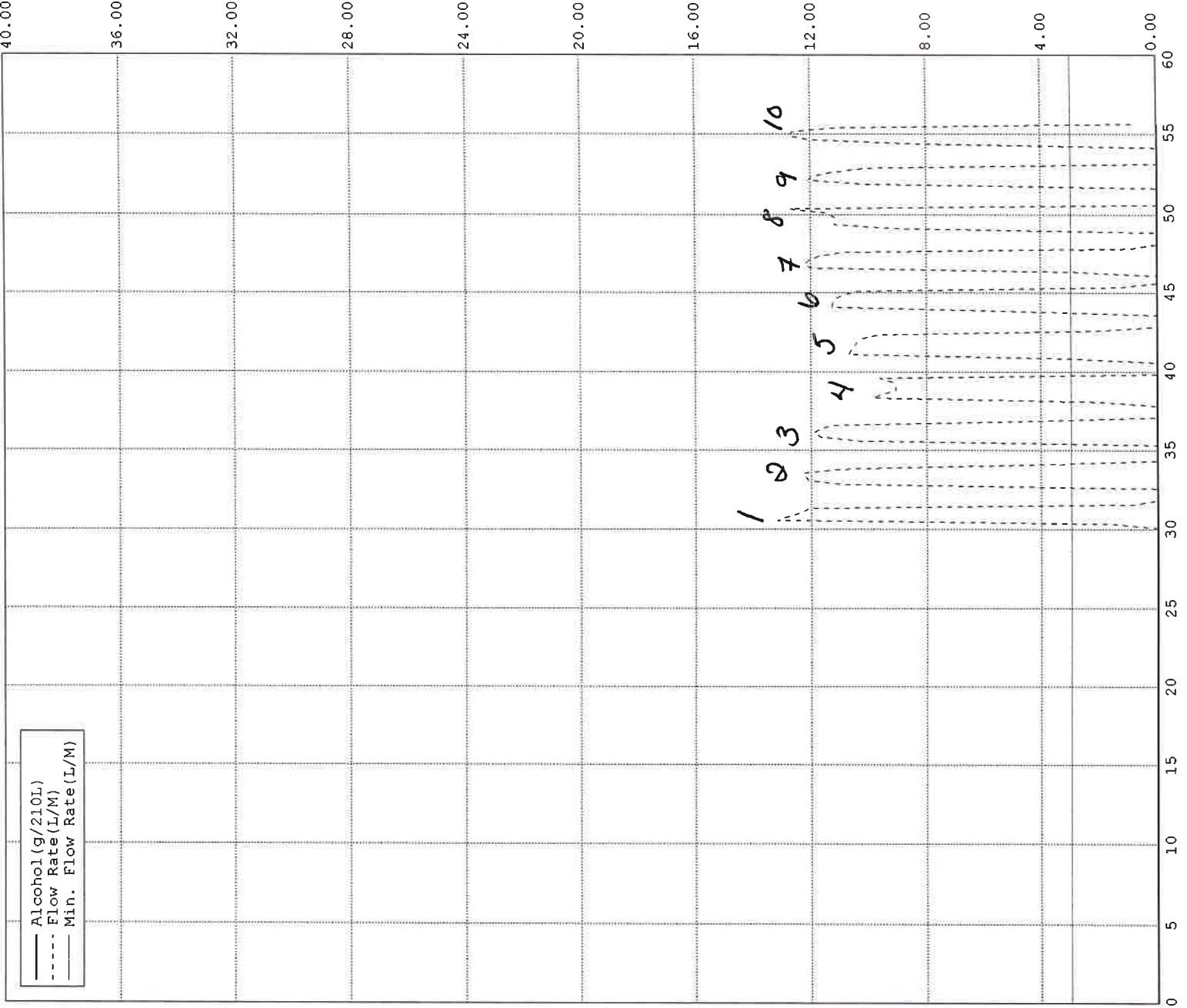
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.86: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 08:47
BLANK TEST 0.000 08:47
INTERNAL STANDARD VERIFIED 08:47
EXTERNAL STANDARD 0.076 08:47
BLANK TEST 0.000 08:48
SUBJECT SAMPLE XXX 08:49

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 11/30/2021
Time: 08:53:39

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

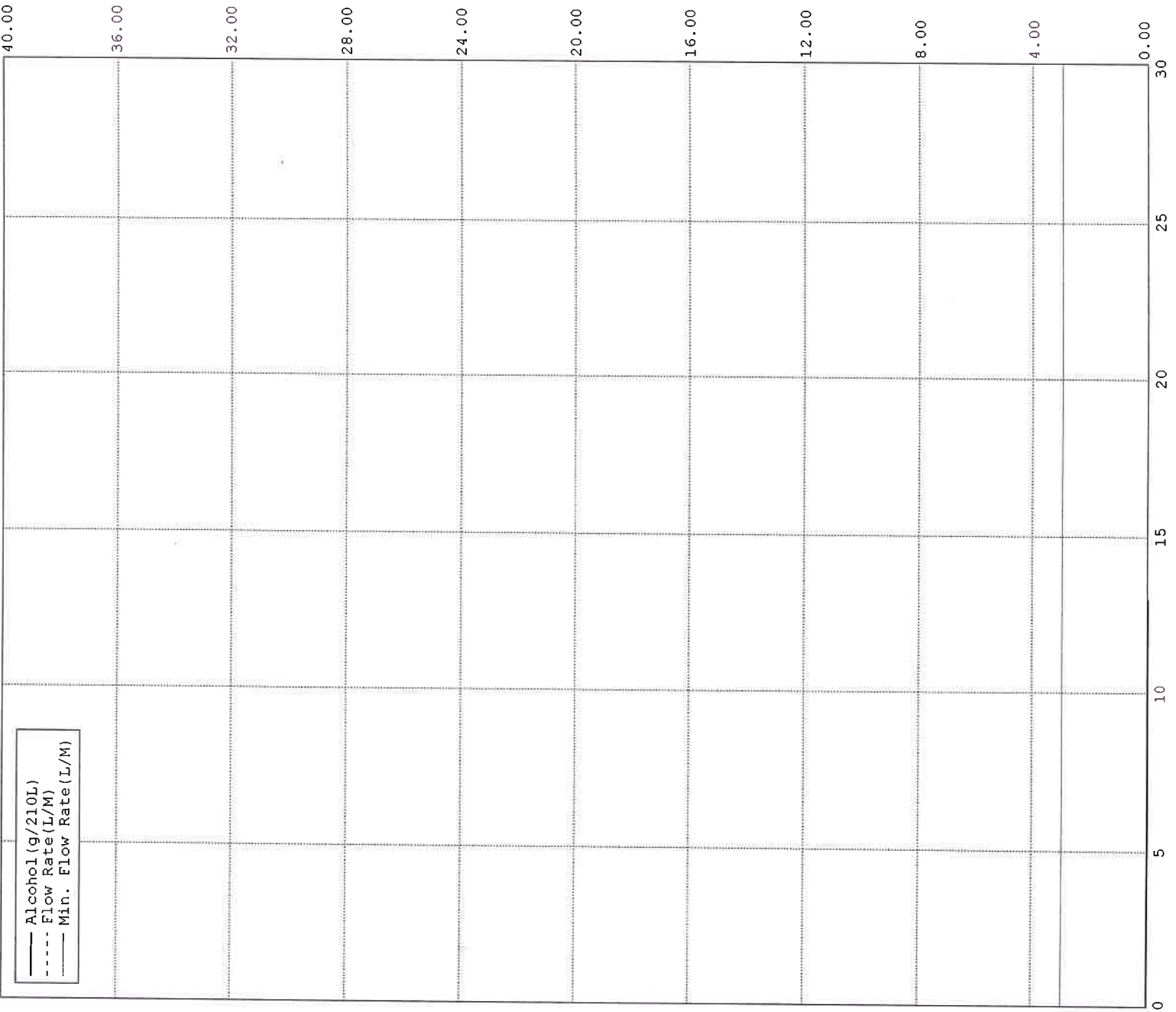
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.86: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 08:56
BLANK TEST 0.000 08:57
INTERNAL STANDARD VERIFIED 08:57
EXTERNAL STANDARD 0.076 08:57
BLANK TEST 0.000 08:58

RFI DETECTED

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 11/30/2021
Time: 14:03:03

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

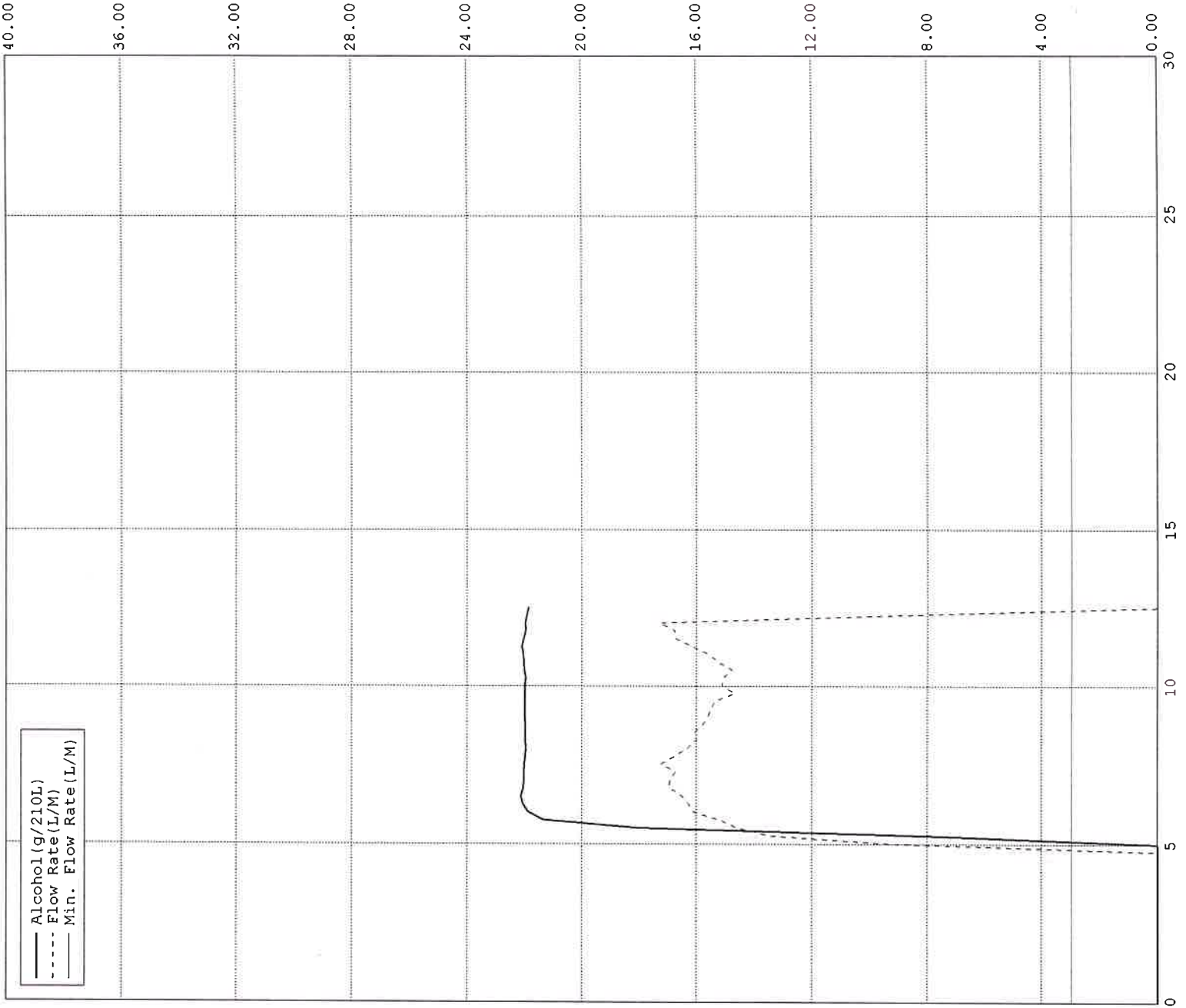
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.93: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 14:04
BLANK TEST 0.000 14:04
INTERNAL STANDARD VERIFIED 14:04
Xq = 0.089 (0.59%)
EXTERNAL STANDARD 0.076 14:04
X[1] = 0.0762 (-0.0034) (0.0026)
BLANK TEST 0.000 14:05
SUBJECT SAMPLE XXX 14:05
X[1] = 0.1103 (-0.0139) (0.0013)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 11/30/2021
Time: 14:10:07

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

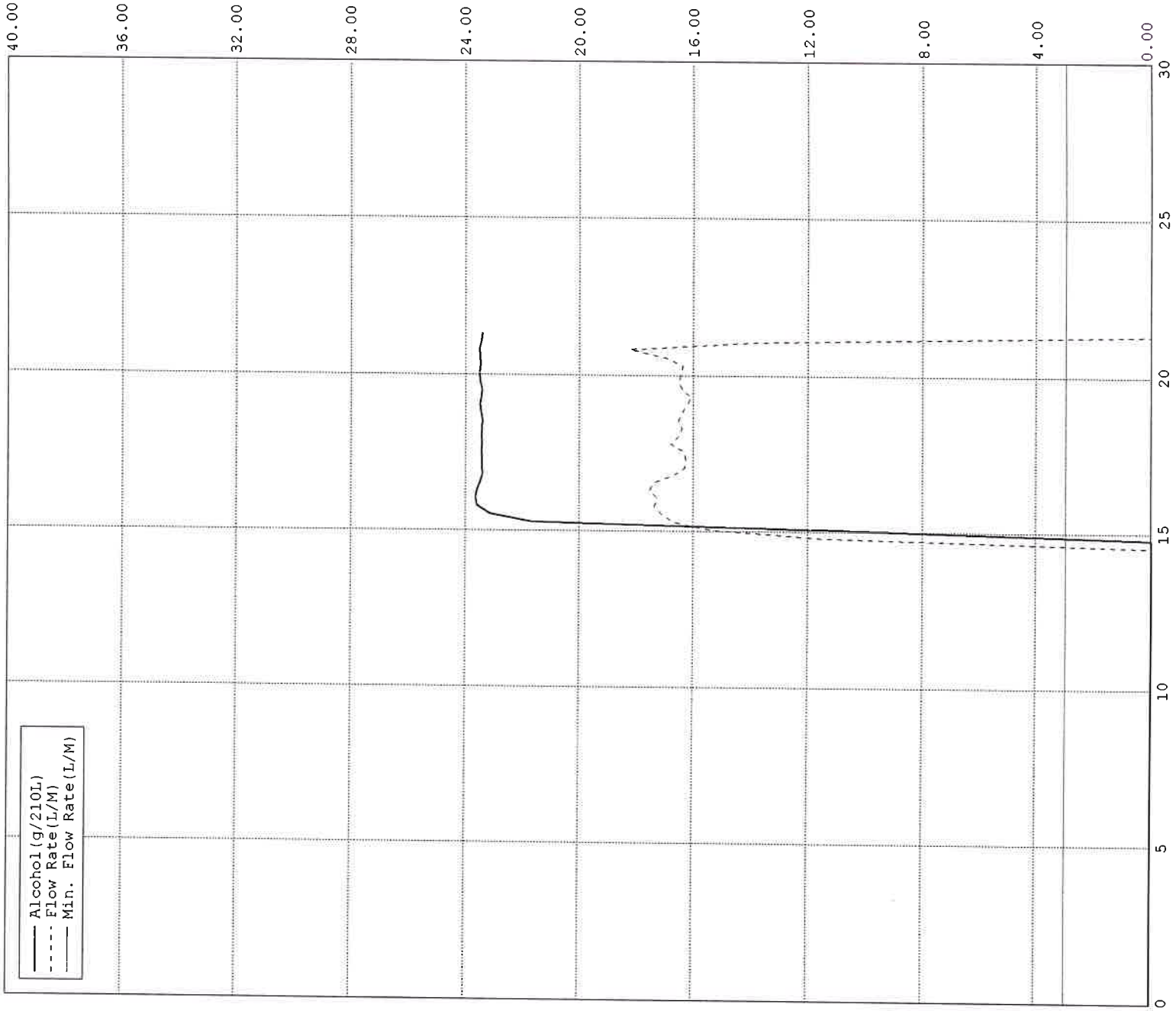
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.93: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 14:11
BLANK TEST 0.000 14:11
INTERNAL STANDARD VERIFIED 14:11
Xq = 0.090 (1.38%)
EXTERNAL STANDARD 0.077 14:11
X[1] = 0.0766 (-0.0029) (0.0012)
BLANK TEST 0.000 14:12
SUBJECT SAMPLE XXX 14:13
X[1] = 0.1178 (-0.0337) (0.0004)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 11/30/2021
Time: 14:15:40

SUBJECT NAME:
TEST TEST

LICENSE #: INT-NEGATIVE

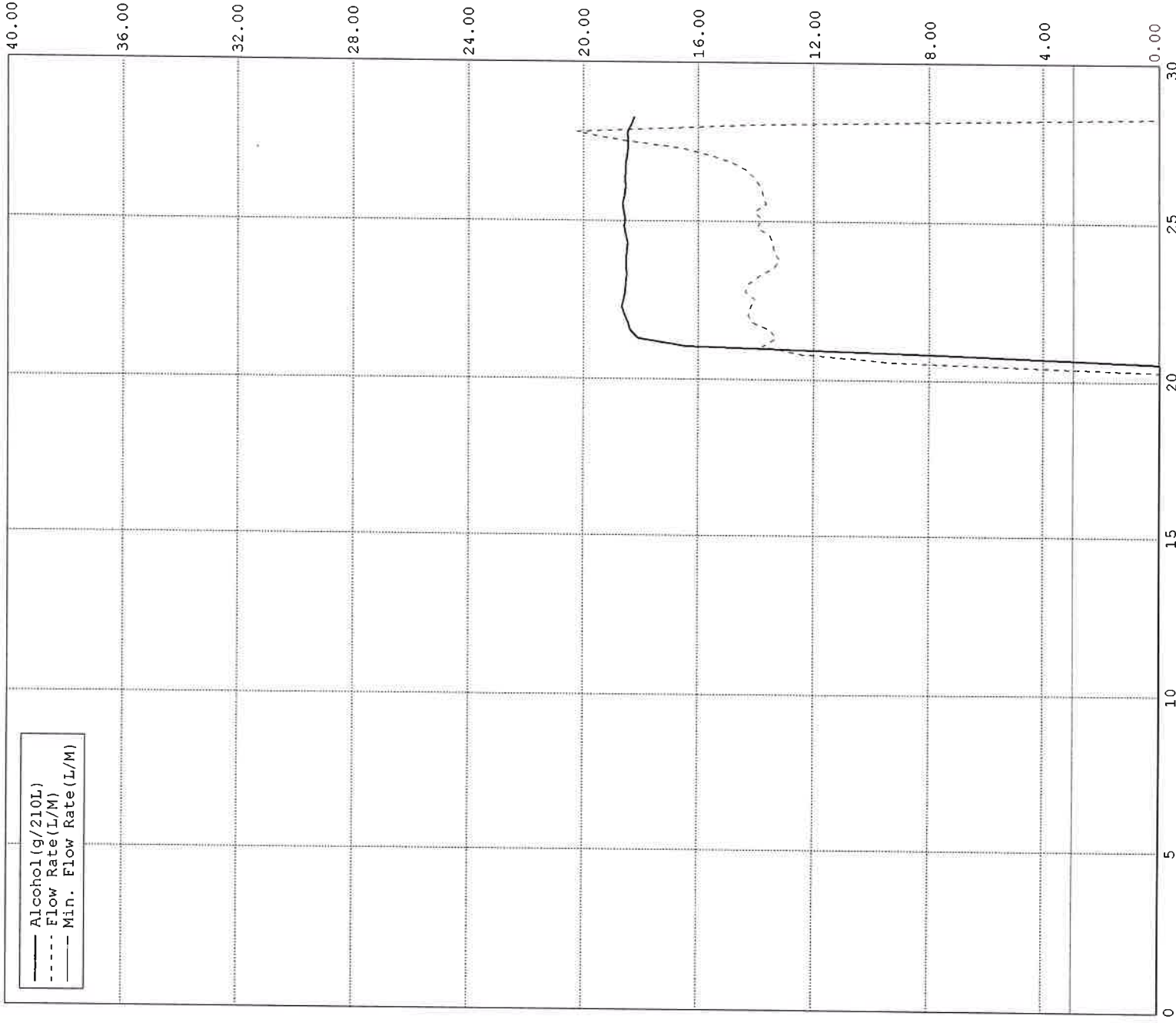
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.93: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:16
INTERNAL STANDARD	0.000	14:16
INTERNAL STANDARD	VERIFIED	14:16
Xq = 0.090 (0.98%)		
EXTERNAL STANDARD	0.077	14:17
X[1] = 0.0766 (-0.0029)	(0.0018)	
BLANK TEST	0.000	14:18
SUBJECT SAMPLE (Vol=1.84L)	0.091	14:18
X[1] = 0.0919 (-0.0016)	(-0.0002)	
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.076	14:19
X[1] = 0.0760 (-0.0024)	(0.0013)	
BLANK TEST	0.000	14:20

Filter 2 Avg = -0.0029
Filter 3 Avg = 0.0017



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 11/30/2021
Time: 14:46:51

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI

CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.94: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:48
BLANK TEST	0.000	14:48
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.076	14:49
BLANK TEST	0.000	14:50
SUBJECT SAMPLE (Vol=1.82L)	0.000	14:51
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.076	14:52
BLANK TEST	0.000	14:53

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)

