

# Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100373 Analyst: C. O'Bryant Start Date: 11/29/21

- Diagnostic Test (attached)
- Adjust voltages, if needed
  - Lamp (2.6V Maximum)
  - Bias
  - Cooler (2.0V Maximum)
  - Chopper Frequency
  - Detector Voltage (-0.100V to 0.100V)
- Internal Standard value  $\leq$  3.00%
- 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: Aargas Lot: AG100401 Exp: 1/4/23  
0.040g/210L Mnf: Aargas Lot: AG111710 Exp: 4/22/23  
0.080g/210L Mnf: Aargas Lot: AG018102 Exp: 6/29/20  
0.100g/210L Mnf: Aargas Lot: AG108404 Exp: 3/25/23  
0.200g/210L Mnf: Guth Lot: 20510 Exp: 12/3/20  
Simulator S/N: DR4161 Date Calibrated: 6/10/21  
0.300g/210L Mnf: Guth Lot: 21030 Exp: 2/2/23  
Simulator S/N: SD1202 Date Calibrated: 6/15/21

### Functional Tests (attached)

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

Acetone Mnf: Lifeloc Lot: 21DP41158 Level: 0.100 Exp: 4/29/23  
Simulator S/N: SD1177 Date Calibrated: 6/15/21  
Isopropanol Mnf: Lifeloc Lot: 21DP41158 Level: 0.100 Exp: 4/29/23  
Simulator S/N: SD1198 Date Calibrated: 6/15/21  
Neg. Control Mnf: Lifeloc 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: 100373

Date: 11/29/2021  
Time: 13:28:28

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 48.1°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.69 V PASSED  
(1.03 V - 2.39 V)  
Cooler Voltage = 1.71 V PASSED  
(0.97 V - 2.25 V)  
Bias Voltage = 80 V PASSED  
(47 V - 111 V)  
Chopper Freq = 541 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.607 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

Xq = 0.083 1.71% (0.00% - 4.00%) PASSED

Technician Screen

-----  
DATAMASTER dmt: 100373  
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Date: 11/29/2021  
Time: 2:30 PM

Temperatures (°C)

Sample Cell: 48.6°C  
Breath Tube: 47.5°C

Current Barometer 29.3 in  
Volume (Ltr) 1.50

Settings

Lamp: 1.71 V  
Bias: 80 V  
Cooler: 1.74 V  
Chopper: 540 Hz

Voltages (V)

Flow: 1.06 V  
Detector: 0.039 V

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100373  
-----

Date: 04/12/2011  
Time: 16:20:23

OPERATOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

LOT #: GUTH100  
BOTTLE #: 10260  
EXPIRATION: 10/25/2012

Ca = 0.1000  
CAL = 0.963237    0.800 <= CAL < 1.200  
b1 = 0.0003    0.0000 <= b1 < 0.0040  
b2 = 0.0051    0.0010 <= b2 < 0.0100  
b3 = 0.0000    0.0000 <= b3 < 0.0040  
Xq = 0.0814    0.0500 <= Xq < 0.2000  
a21 = 1.168708    1.050 <= a21 < 1.300  
a31 = 0.507741    0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100373

Date: 11/29/2021  
Time: 14:31:09

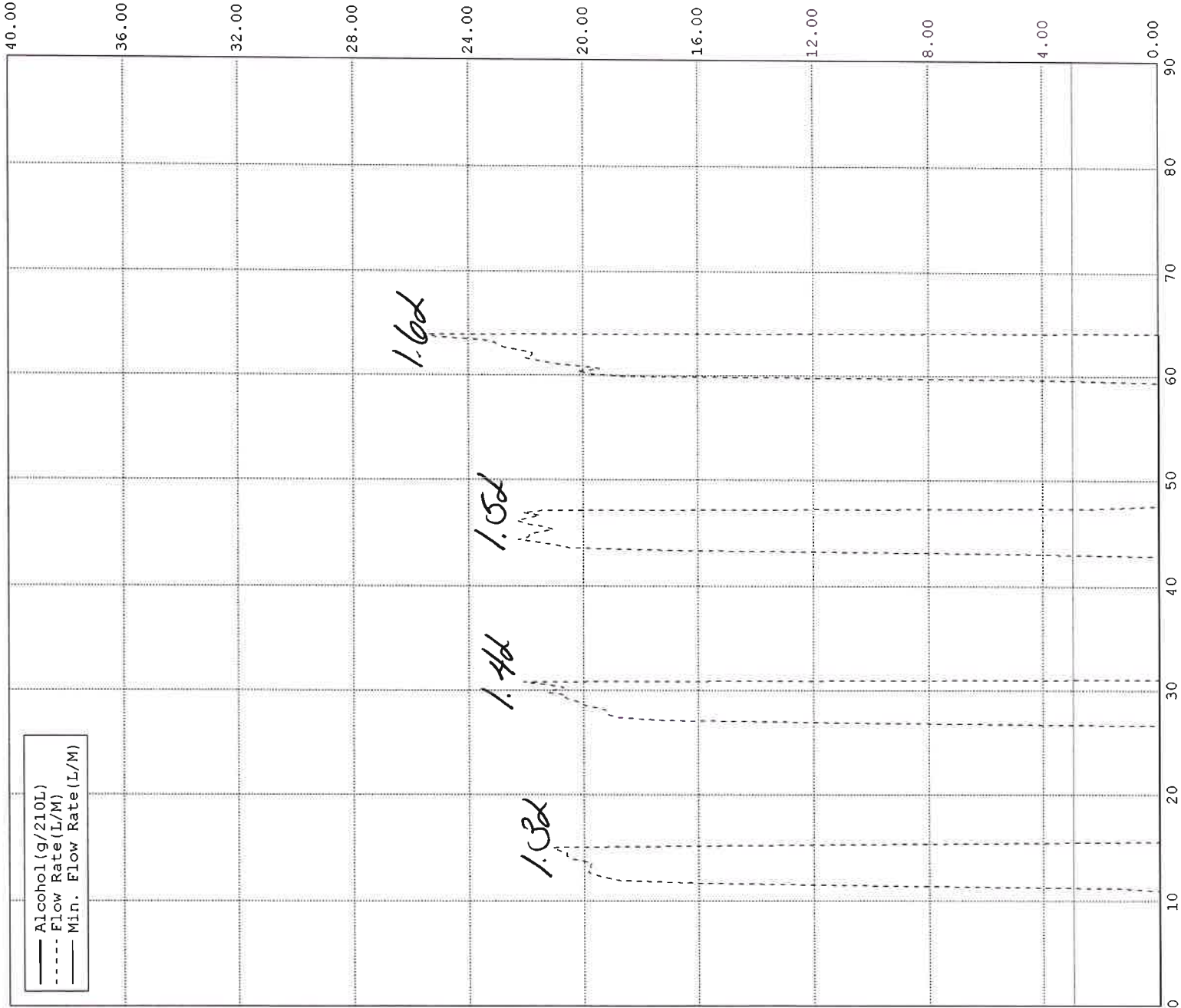
SUBJECT NAME:  
TEST TEST  
LICENSE #: MIN VOLUME

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	14:32
BLANK TEST	0.000	14:32
INTERNAL STANDARD	VERIFIED	14:32
EXTERNAL STANDARD	0.077	14:32
BLANK TEST	0.000	14:33
SUBJECT SAMPLE (Vol=1.57L)	0.000	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.077	14:35
BLANK TEST	0.000	14:36



LINEARITY CHECK

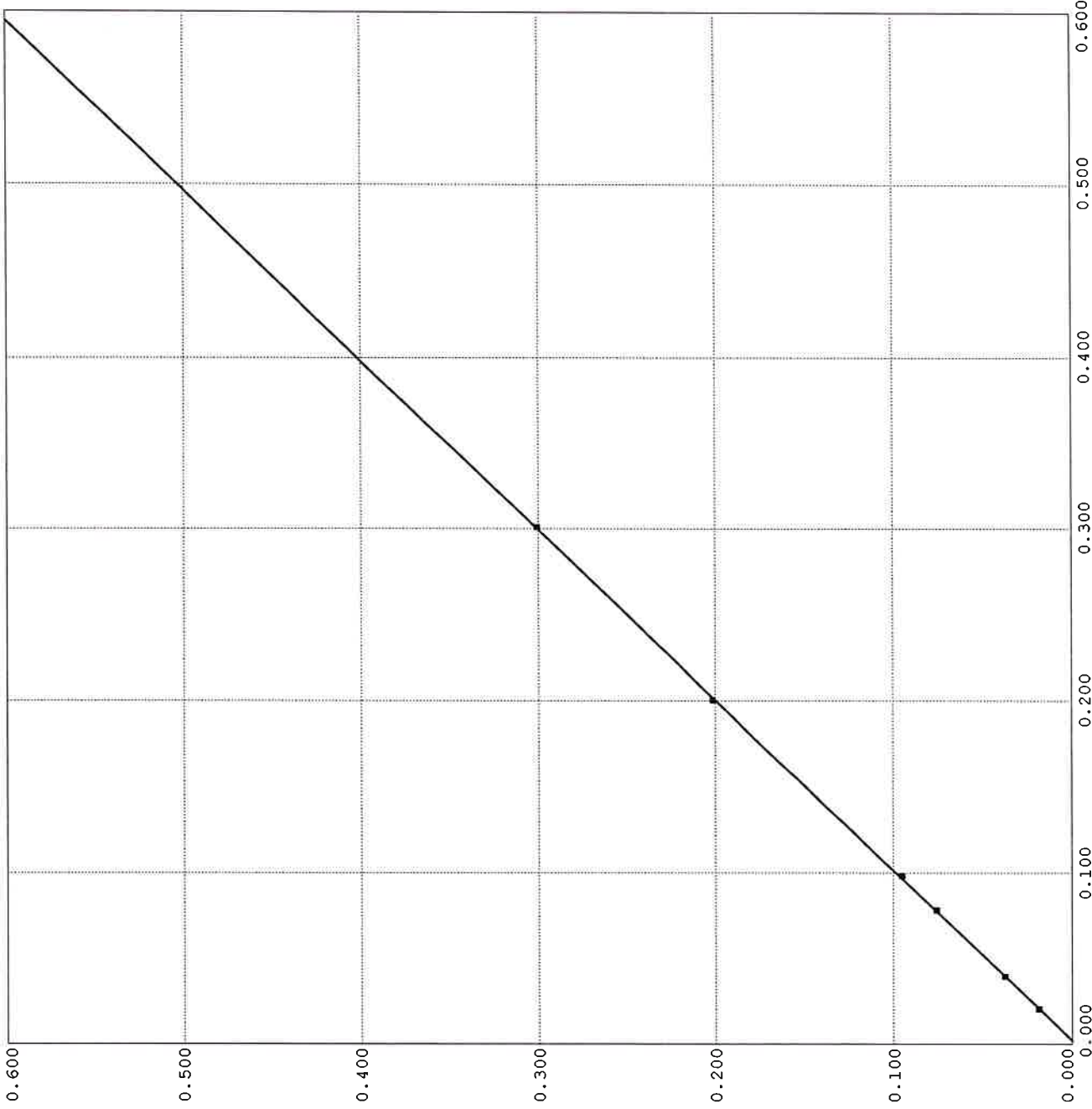
-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100373  
 -----

Date: 11/29/2021  
 Time: 14:38:51

SUPERVISOR NAME:  
 COLLEEN S OBRyant  
 OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0192	0.0004
0.039	0.0382	0.0004
0.078	0.0766	0.0005
0.098	0.0960	0.0000
0.200	0.2024	0.0005
0.300	0.3014	0.0005

SLOPE = 1.012065  
 R<sup>2</sup> = 0.999893



*CS*



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100373

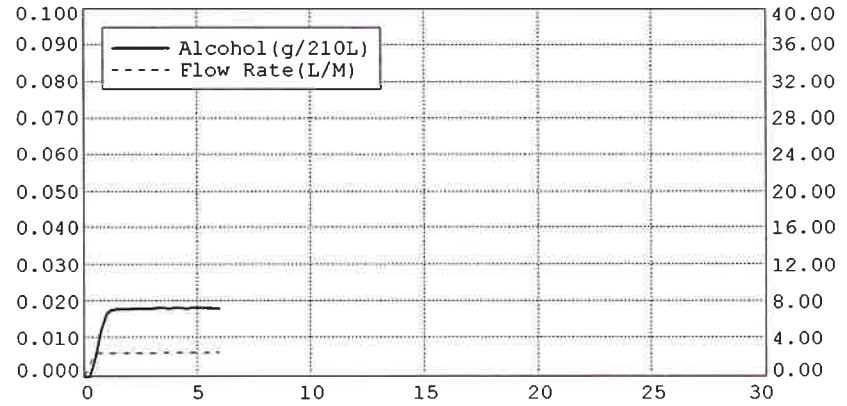
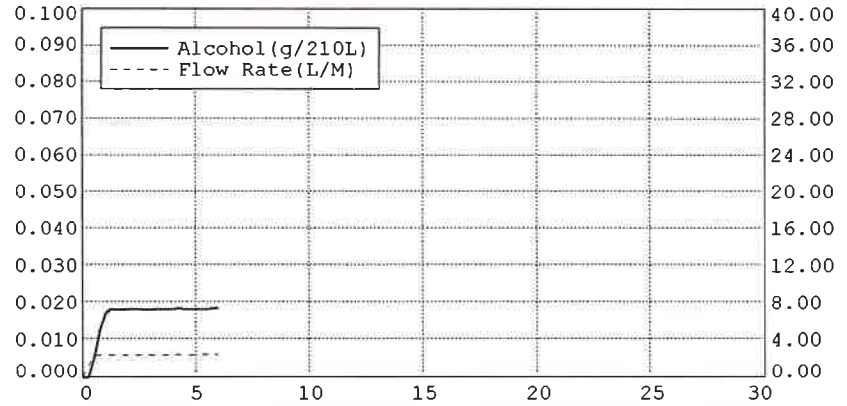
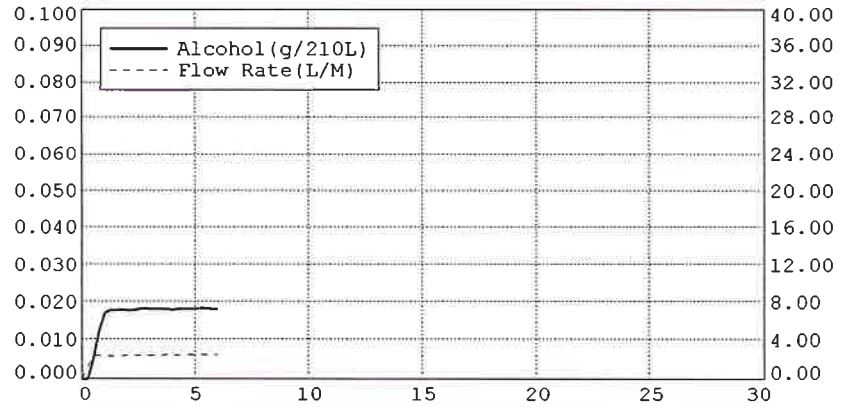
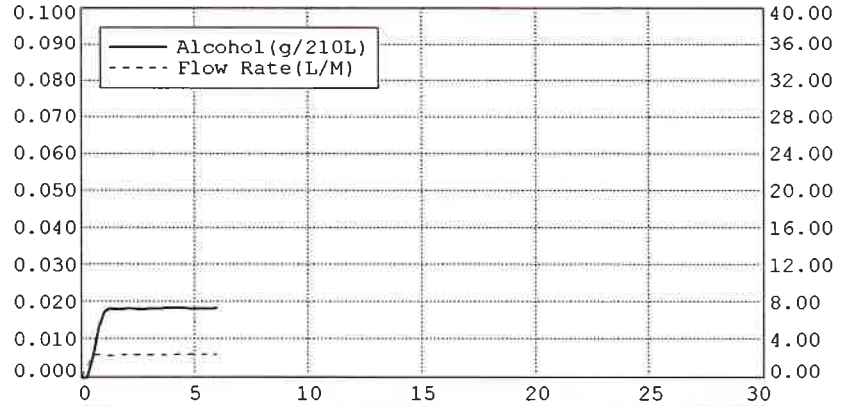
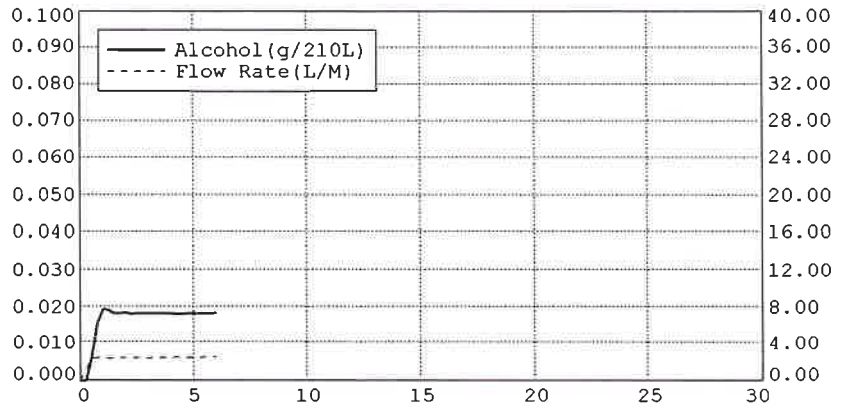
Date: 11/29/2021  
Time: 14:38:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.29: 0.020  
LOT #: AG100401  
EXPIRATION: 01/04/2023  
TANK PRESSURE: 891 psi

BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:46
EXTERNAL STANDARD	0.019	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.020	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.019	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.019	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.019	14:50
BLANK TEST	0.000	14:51

Average = 0.0192  
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100373

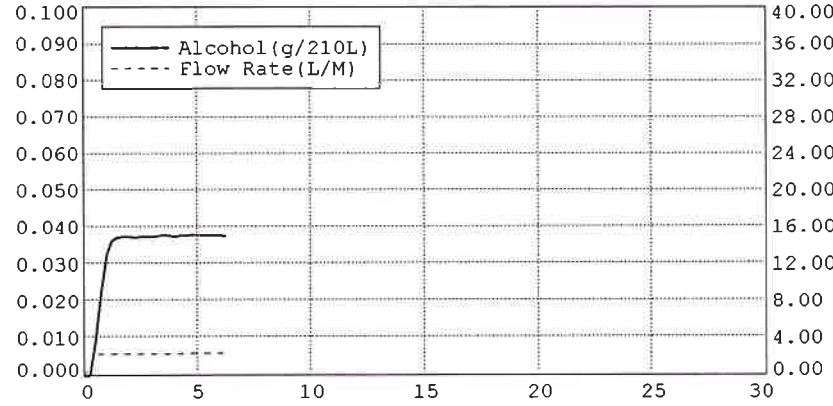
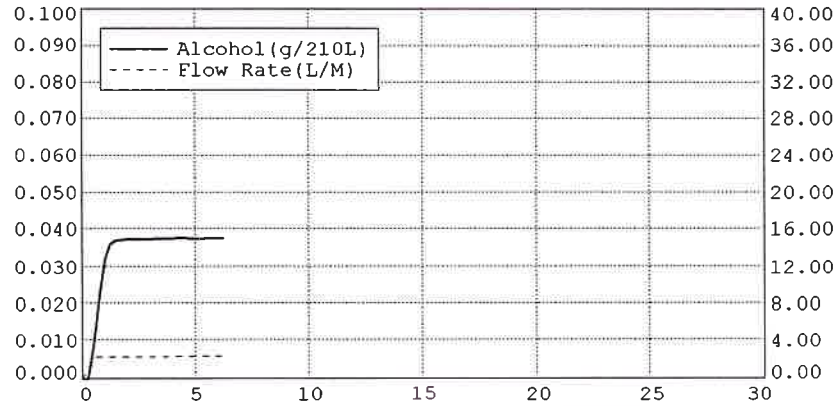
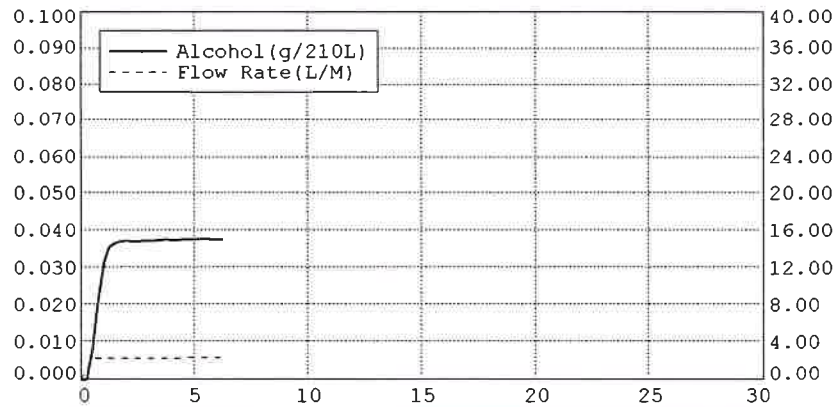
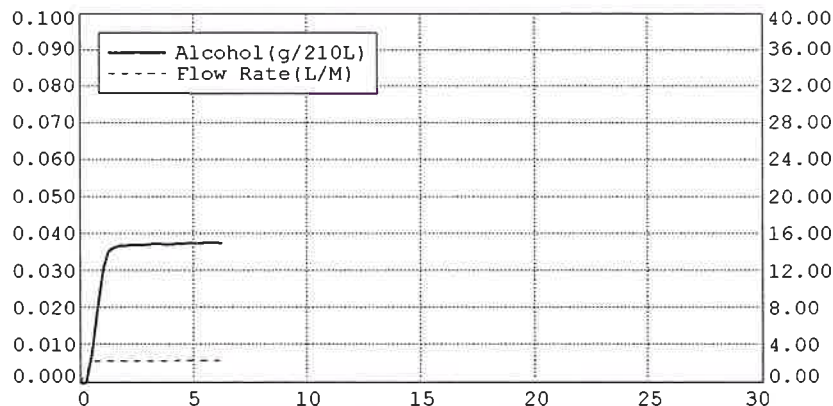
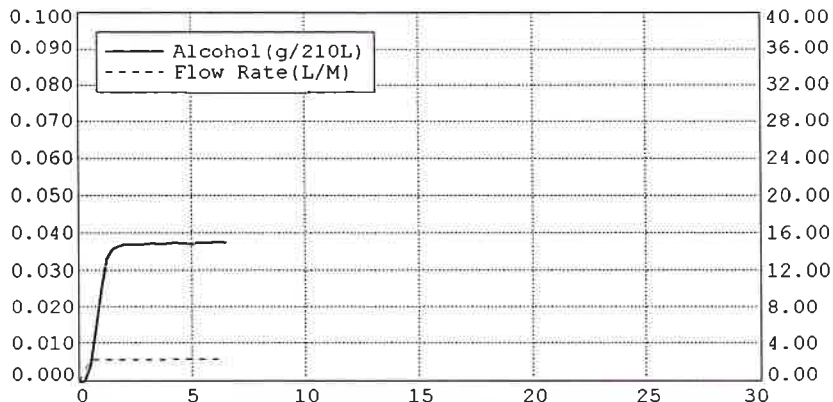
Date: 11/29/2021  
 Time: 14:52:10

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
 TARGET AT 29.27: 0.039  
 LOT #: AG111710  
 EXPIRATION: 04/27/2023  
 TANK PRESSURE: 569 psi

BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
EXTERNAL STANDARD	0.039	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.038	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.038	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.038	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.038	14:58
BLANK TEST	0.000	14:58

Average = 0.0382  
 Std Dev = 0.0004





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100373

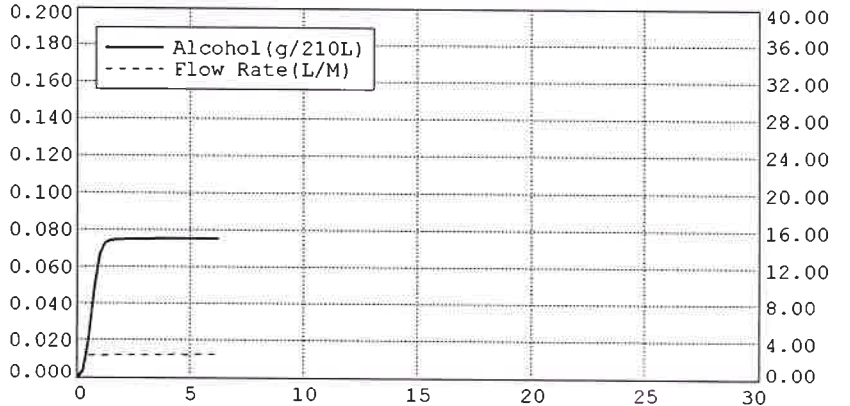
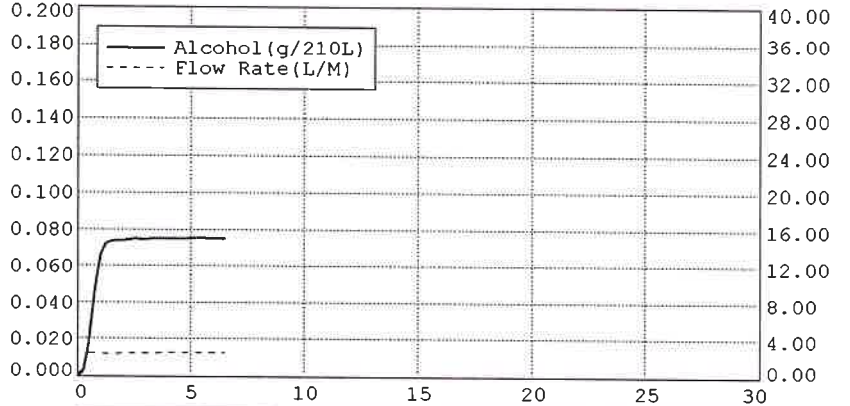
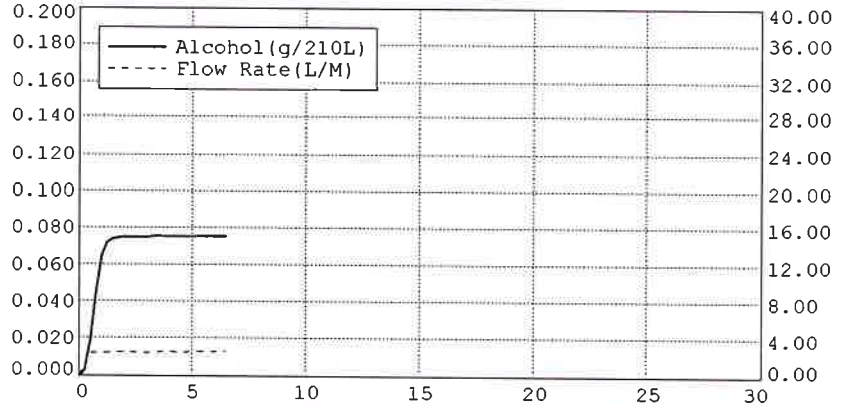
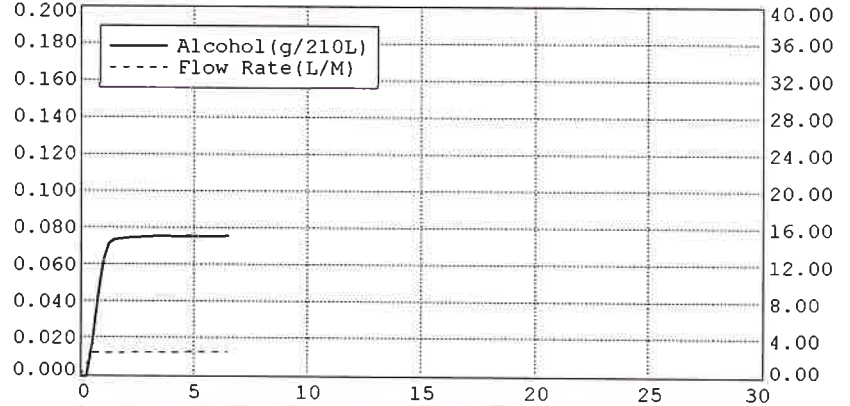
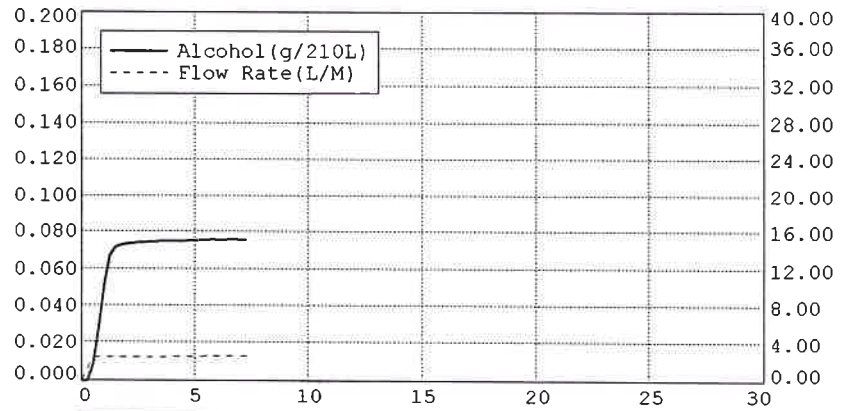
Date: 11/29/2021  
Time: 15:06:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.27: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 1121 psi

BLANK TEST	0.000	15:08
INTERNAL STANDARD	VERIFIED	15:08
EXTERNAL STANDARD	0.076	15:08
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.077	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.077	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.076	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.077	15:12
BLANK TEST	0.000	15:13

Average = 0.0766  
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATAMASTER dmt: 100373

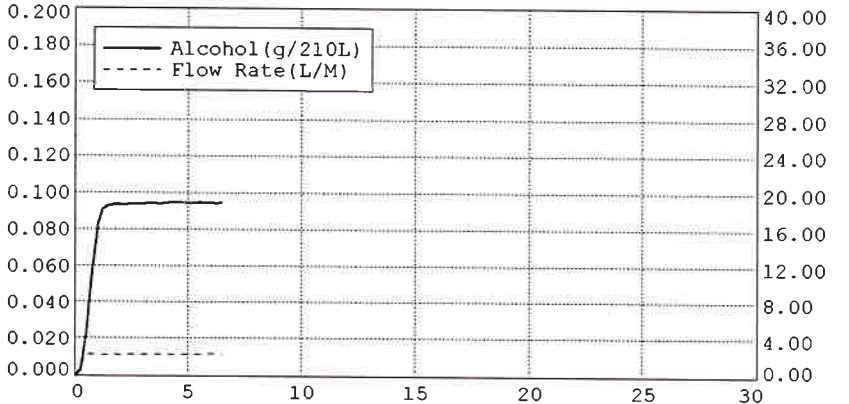
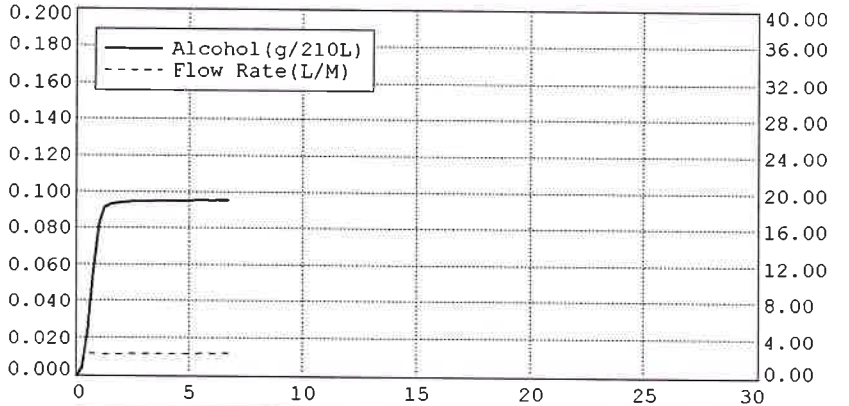
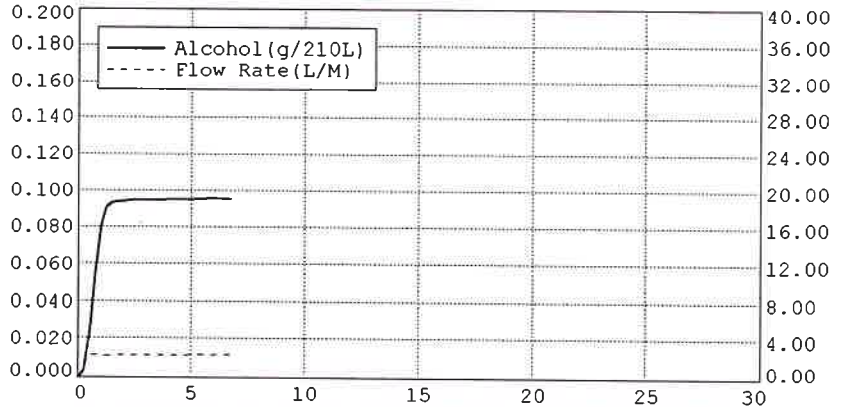
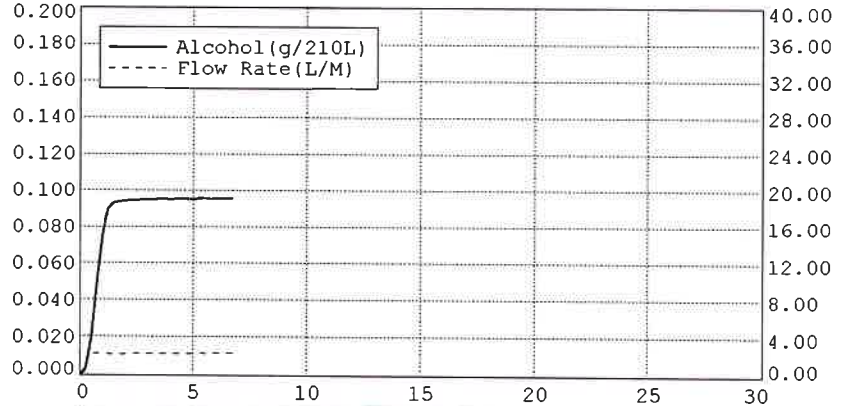
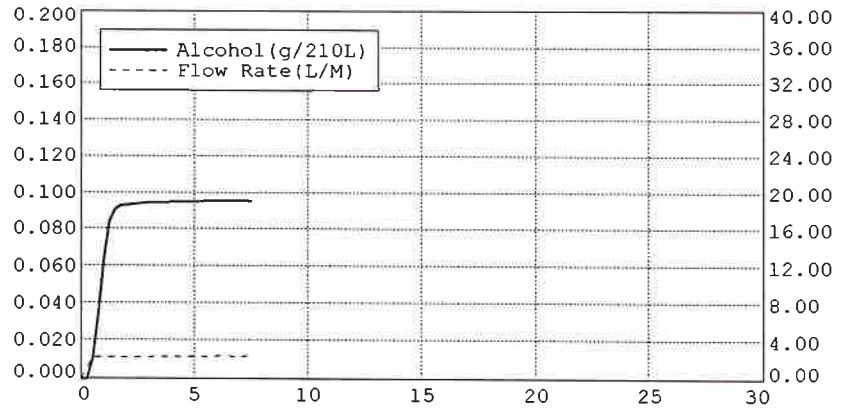
Date: 11/29/2021  
 Time: 15:29:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.26: 0.098  
 LOT #: AG108404  
 EXPIRATION: 03/25/2023  
 TANK PRESSURE: 651 psi

BLANK TEST	0.000	15:30
INTERNAL STANDARD	VERIFIED	15:30
EXTERNAL STANDARD	0.096	15:30
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.096	15:32
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.096	15:33
BLANK TEST	0.000	15:34
EXTERNAL STANDARD	0.096	15:34
BLANK TEST	0.000	15:35
EXTERNAL STANDARD	0.096	15:35
BLANK TEST	0.000	15:36

Average = 0.0960  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
 DATAMASTER dmt: 100373

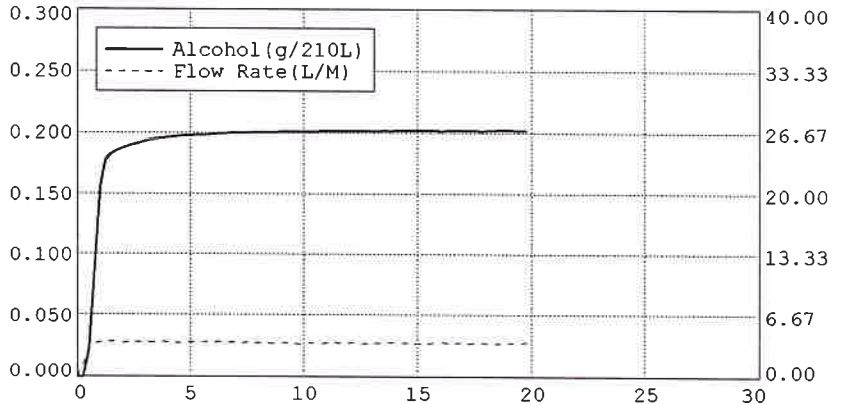
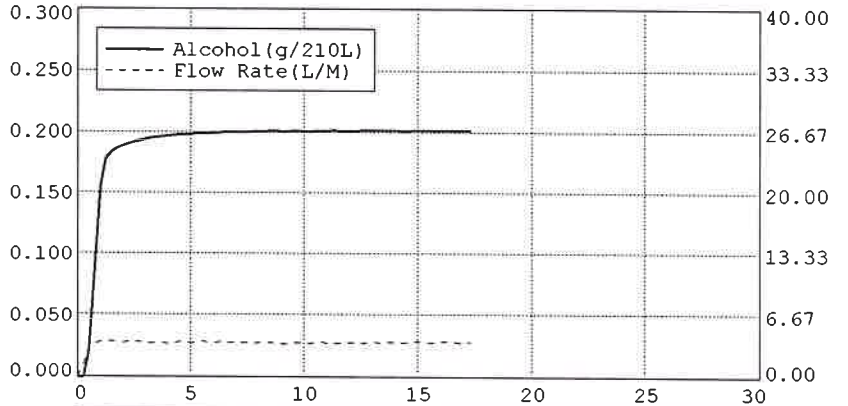
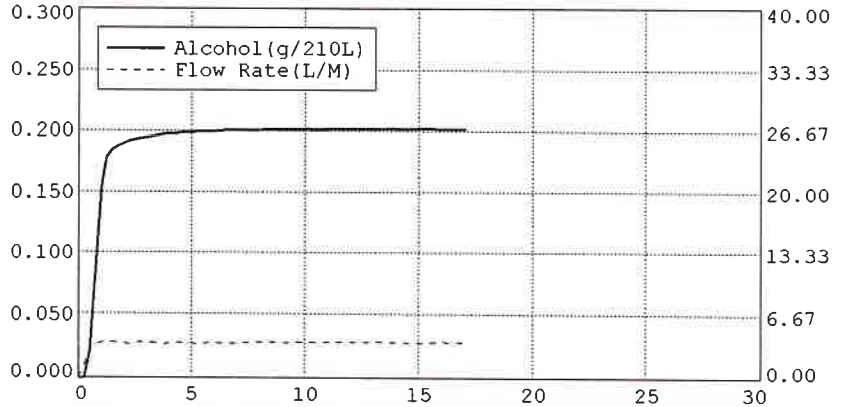
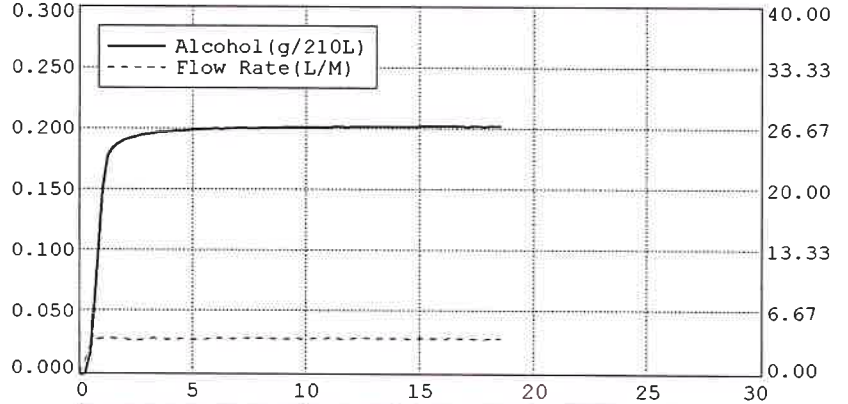
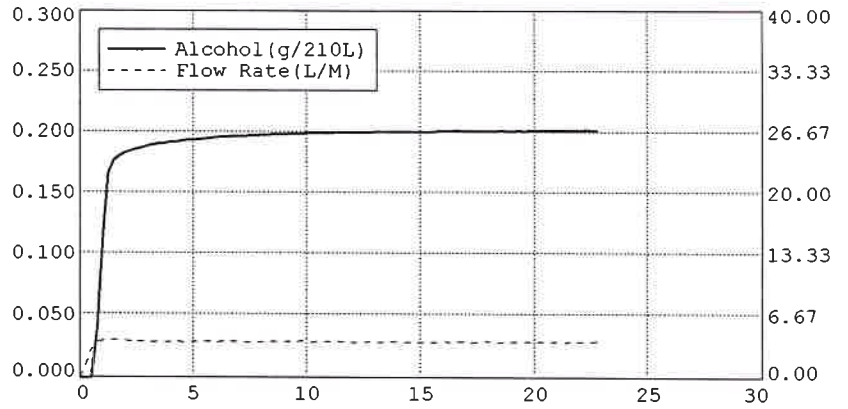
Date: 11/29/2021  
 Time: 15:37:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
 LOT #: 20510  
 EXPIRATION: 12/03/2022

BLANK TEST	0.000	15:38
INTERNAL STANDARD	VERIFIED	15:39
EXTERNAL STANDARD	0.202	15:39
BLANK TEST	0.000	15:40
EXTERNAL STANDARD	0.203	15:40
BLANK TEST	0.000	15:41
EXTERNAL STANDARD	0.202	15:42
BLANK TEST	0.000	15:43
EXTERNAL STANDARD	0.202	15:43
BLANK TEST	0.000	15:44
EXTERNAL STANDARD	0.203	15:44
BLANK TEST	0.000	15:45

Average = 0.2024  
 Std Dev = 0.0005





LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
 DATAMASTER dmt: 100373

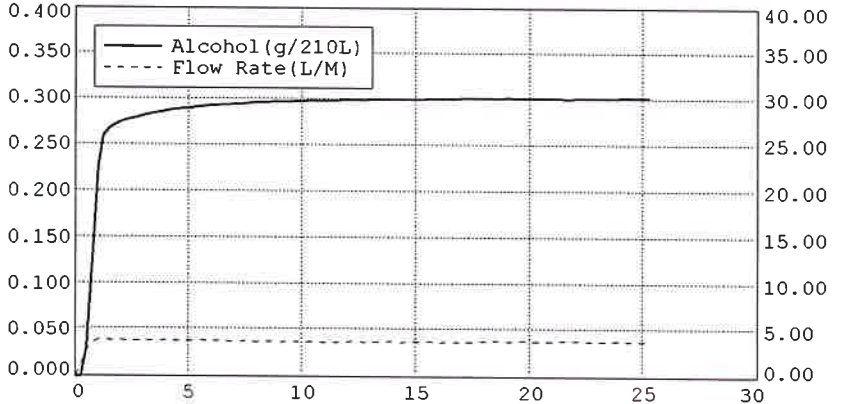
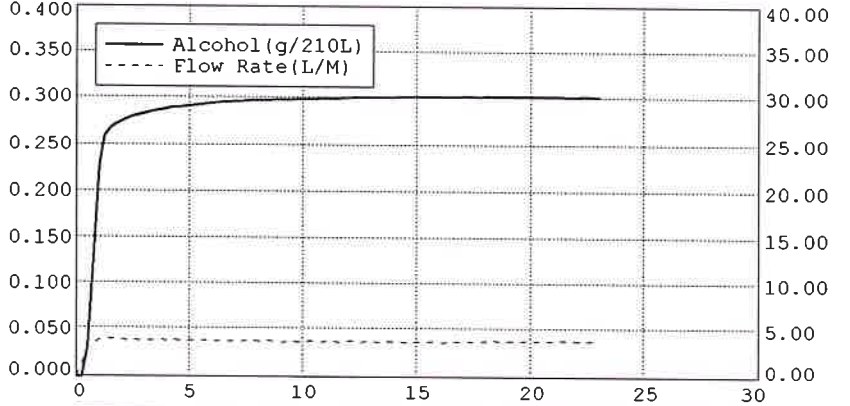
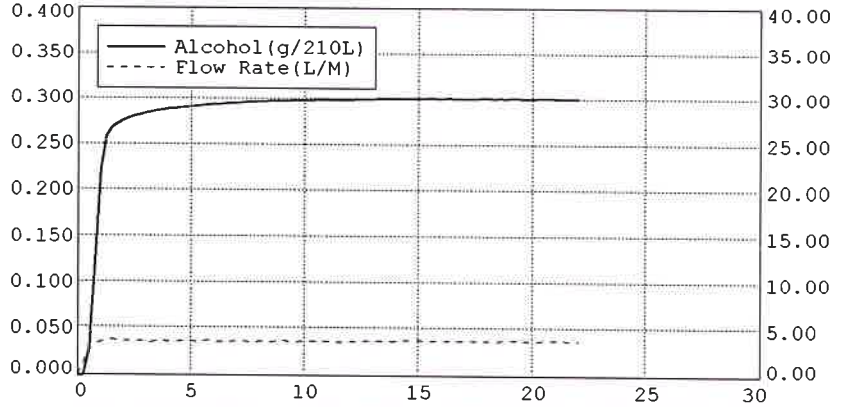
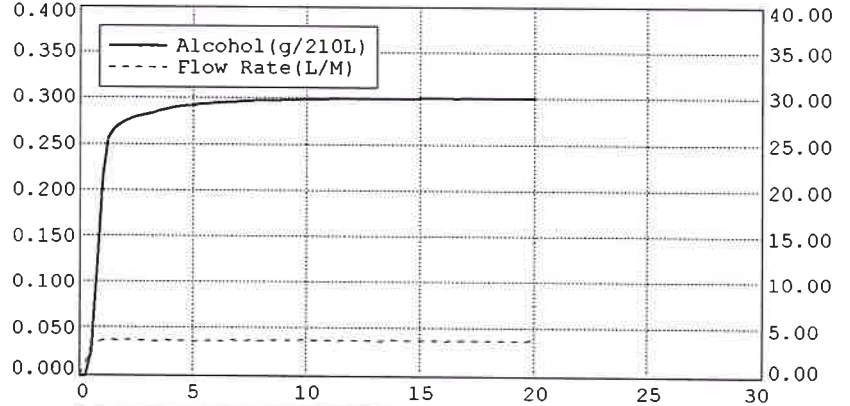
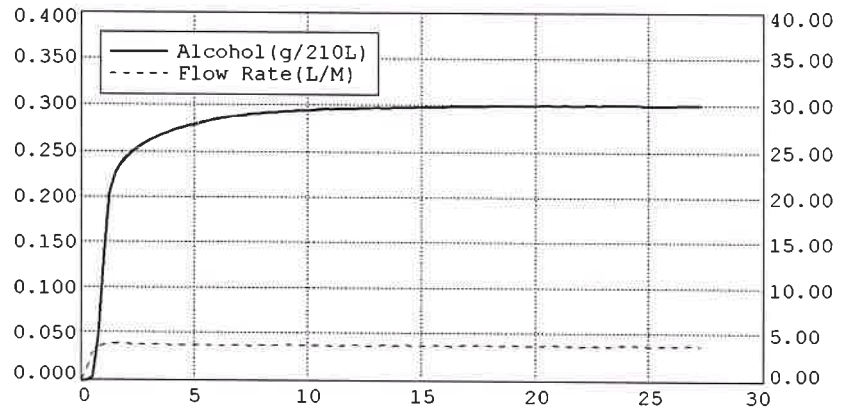
Date: 11/29/2021  
 Time: 15:48:03

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:49
INTERNAL STANDARD	VERIFIED	15:49
EXTERNAL STANDARD	0.301	15:49
BLANK TEST	0.000	15:50
EXTERNAL STANDARD	0.301	15:51
BLANK TEST	0.000	15:52
EXTERNAL STANDARD	0.301	15:52
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.302	15:53
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.302	15:55
BLANK TEST	0.000	15:56

Average = 0.3014  
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100373

Date: 11/29/2021  
Time: 16:25:39

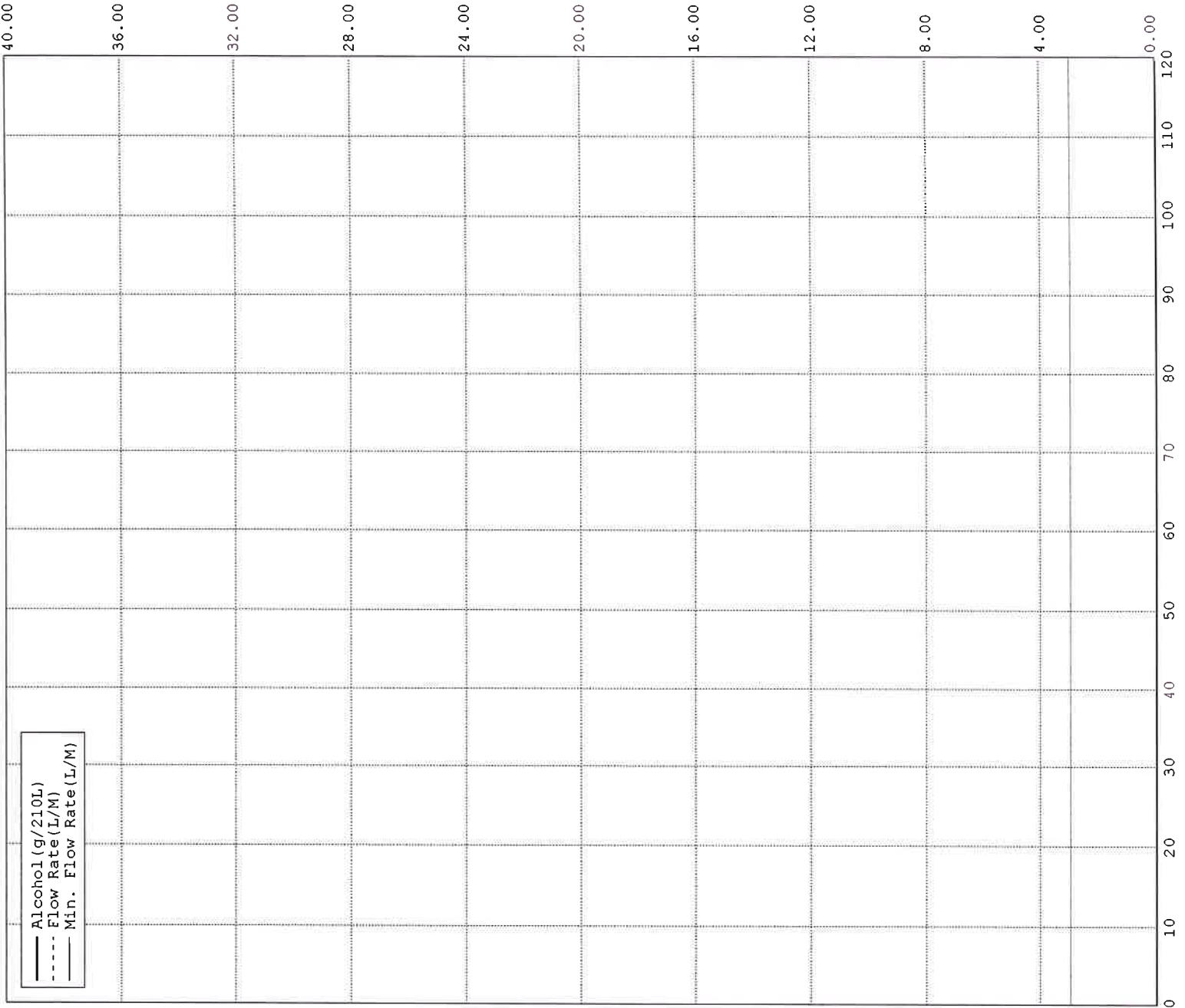
SUBJECT NAME:  
TEST TEST  
LICENSE #: INCOMPLETE

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 29.21: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 16:26  
BLANK TEST 0.000 16:26  
INTERNAL STANDARD VERIFIED 16:26  
EXTERNAL STANDARD 0.076 16:27  
BLANK TEST 0.000 16:28  
SUBJECT SAMPLE INCOMPLETE 16:30





SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100373

Date: 11/29/2021  
Time: 16:32:58

SUBJECT NAME:  
TEST TEST  
LICENSE #: INVALID

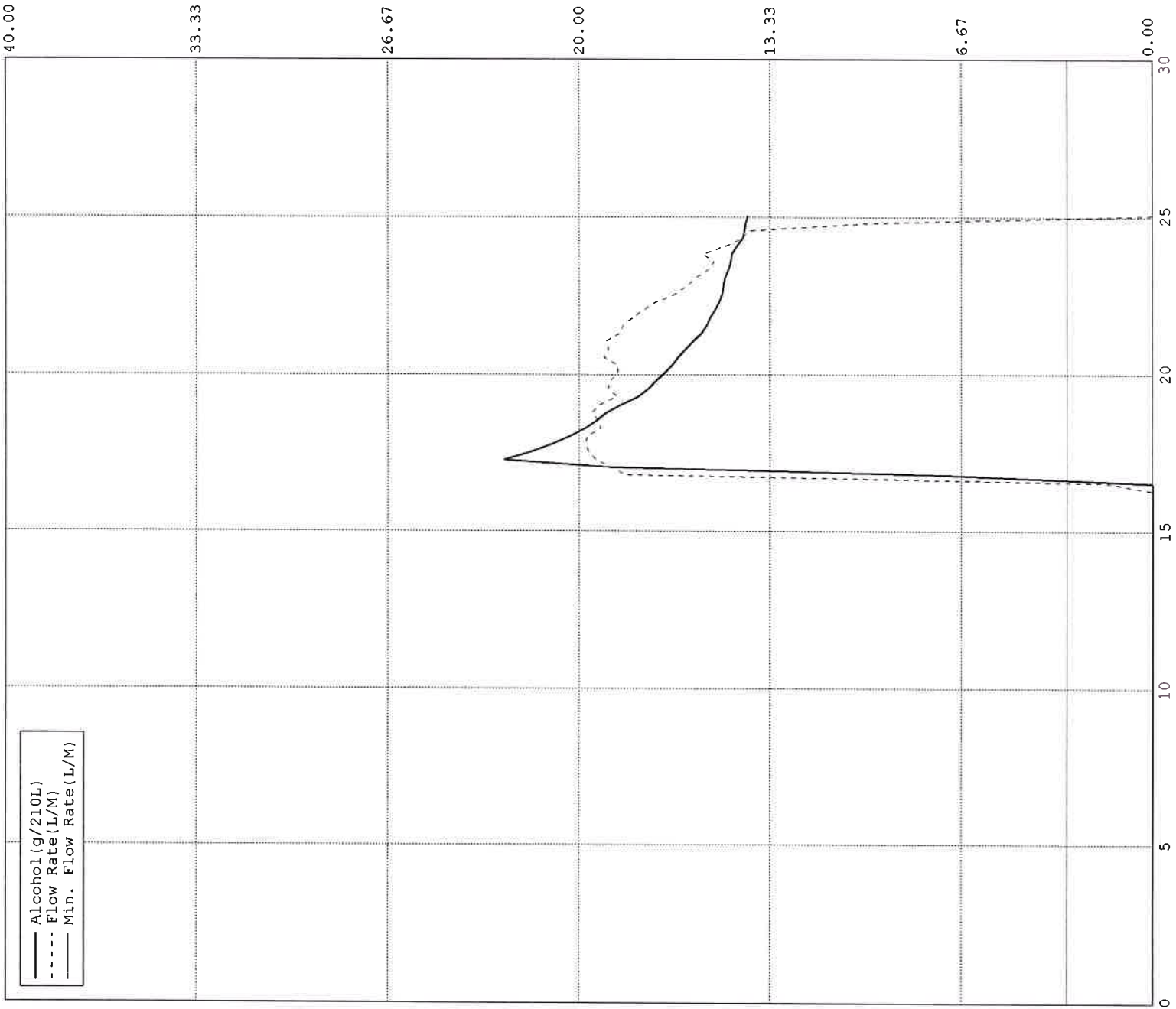
OPERATOR NAME:  
COLLEEN S O'BRYAN  
OPERATOR'S #: 6237

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	16:34
BLANK TEST	0.000	16:34
INTERNAL STANDARD	VERIFIED	16:34
EXTERNAL STANDARD	0.076	16:34
BLANK TEST	0.000	16:35
SUBJECT SAMPLE	INVALID	16:36

CSB



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100373

Date: 11/30/2021  
Time: 08:49:53

SUBJECT NAME:  
TEST TEST  
LICENSE #: MAX ATTEMPTS

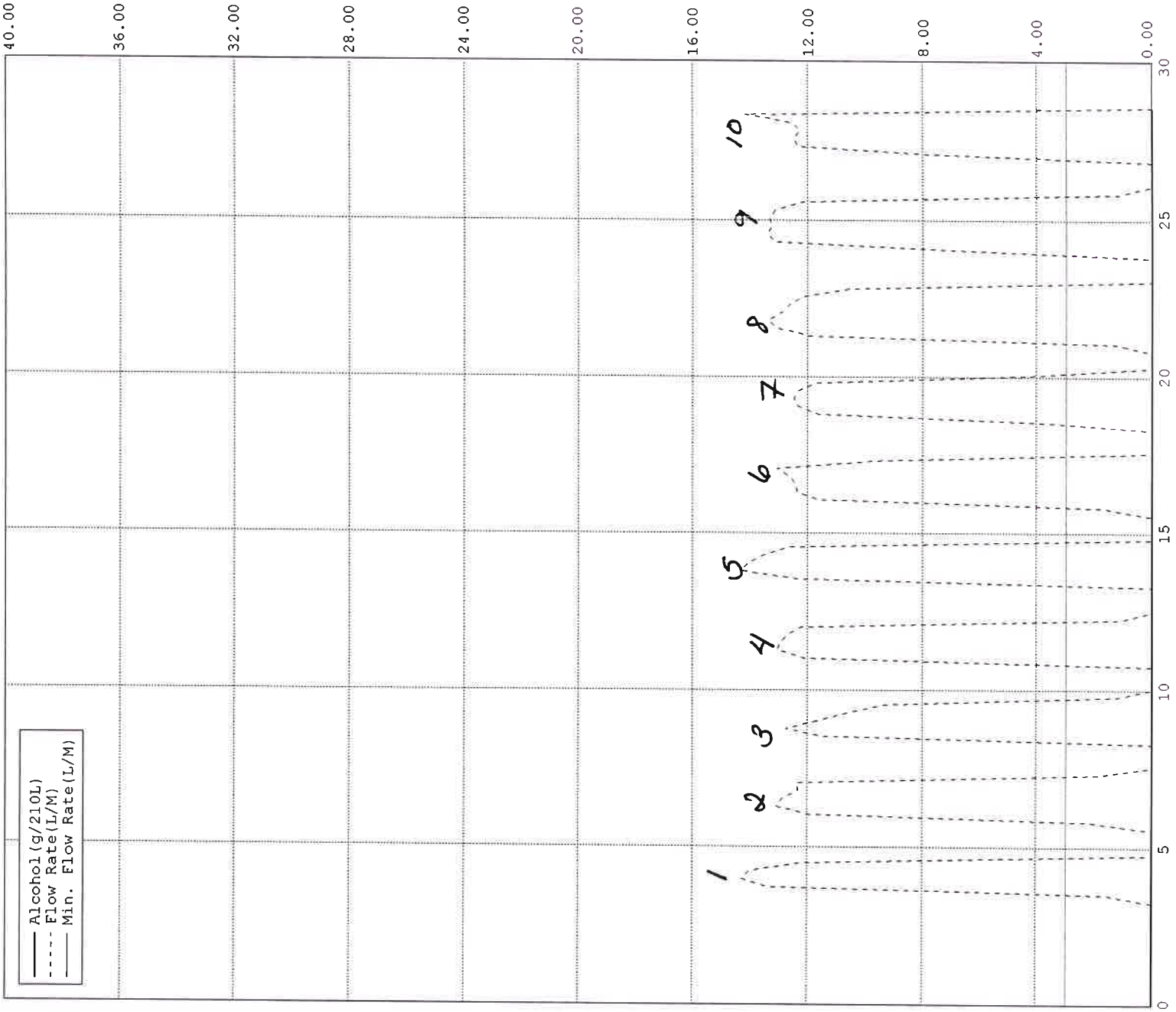
OPERATOR NAME:  
COLLEEN S O'BRYAN  
OPERATOR'S #: 6237

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 08:51  
BLANK TEST 0.000 08:51  
INTERNAL STANDARD VERIFIED 08:51  
EXTERNAL STANDARD 0.076 08:51  
BLANK TEST 0.000 08:52  
SUBJECT SAMPLE XXX 08:53

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100373

Date: 11/30/2021  
Time: 08:55:18

SUBJECT NAME:  
TEST TEST  
LICENSE #: RFI

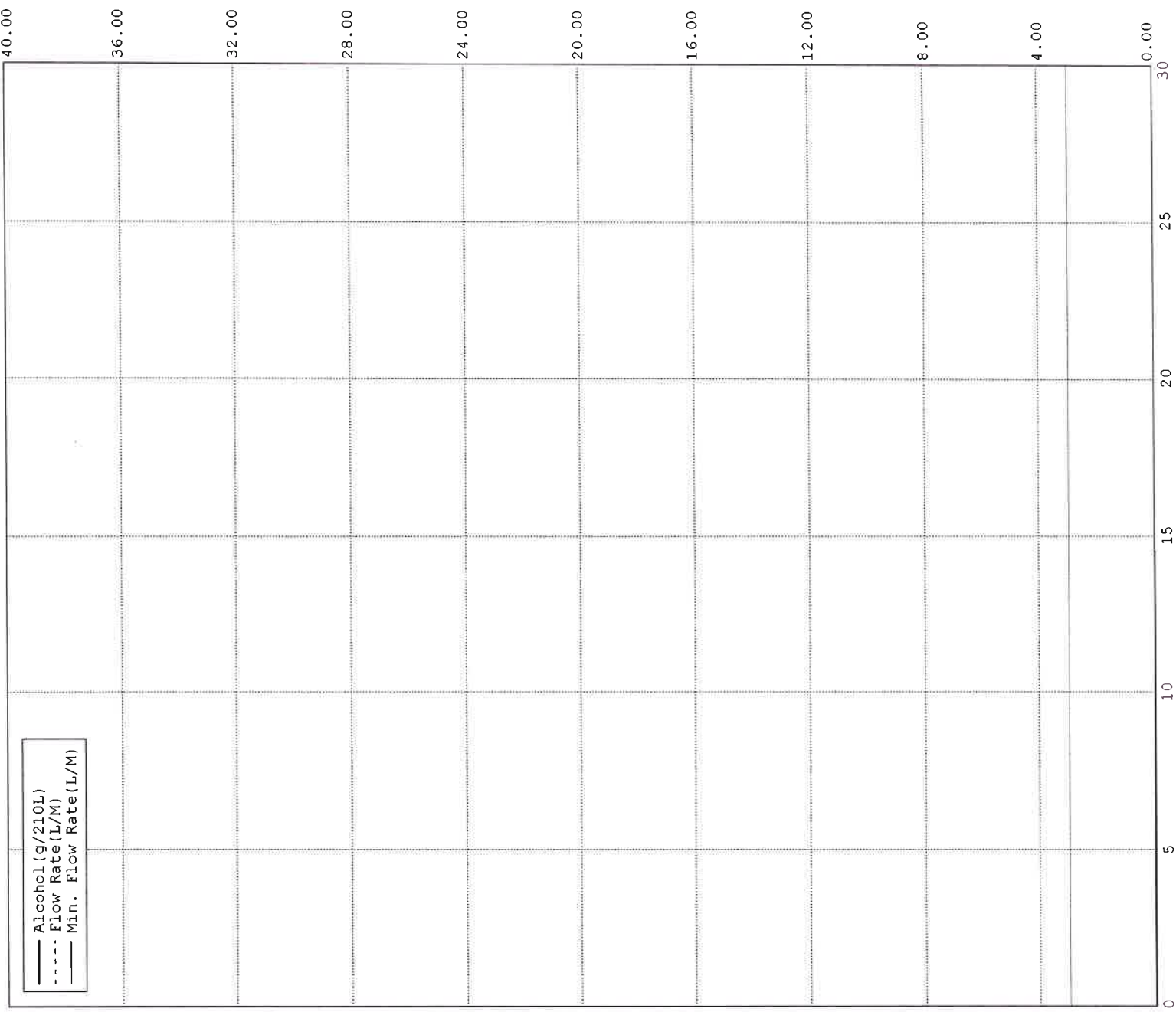
OPERATOR NAME:  
COLLEEN S OBRVANT  
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 28.85: 0.077  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 08:58  
BLANK TEST 0.000 08:58  
INTERNAL STANDARD VERIFIED 08:58  
EXTERNAL STANDARD 0.076 08:59  
BLANK TEST 0.000 09:00

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100373

Date: 11/30/2021  
Time: 14:02:22

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-ACETONE

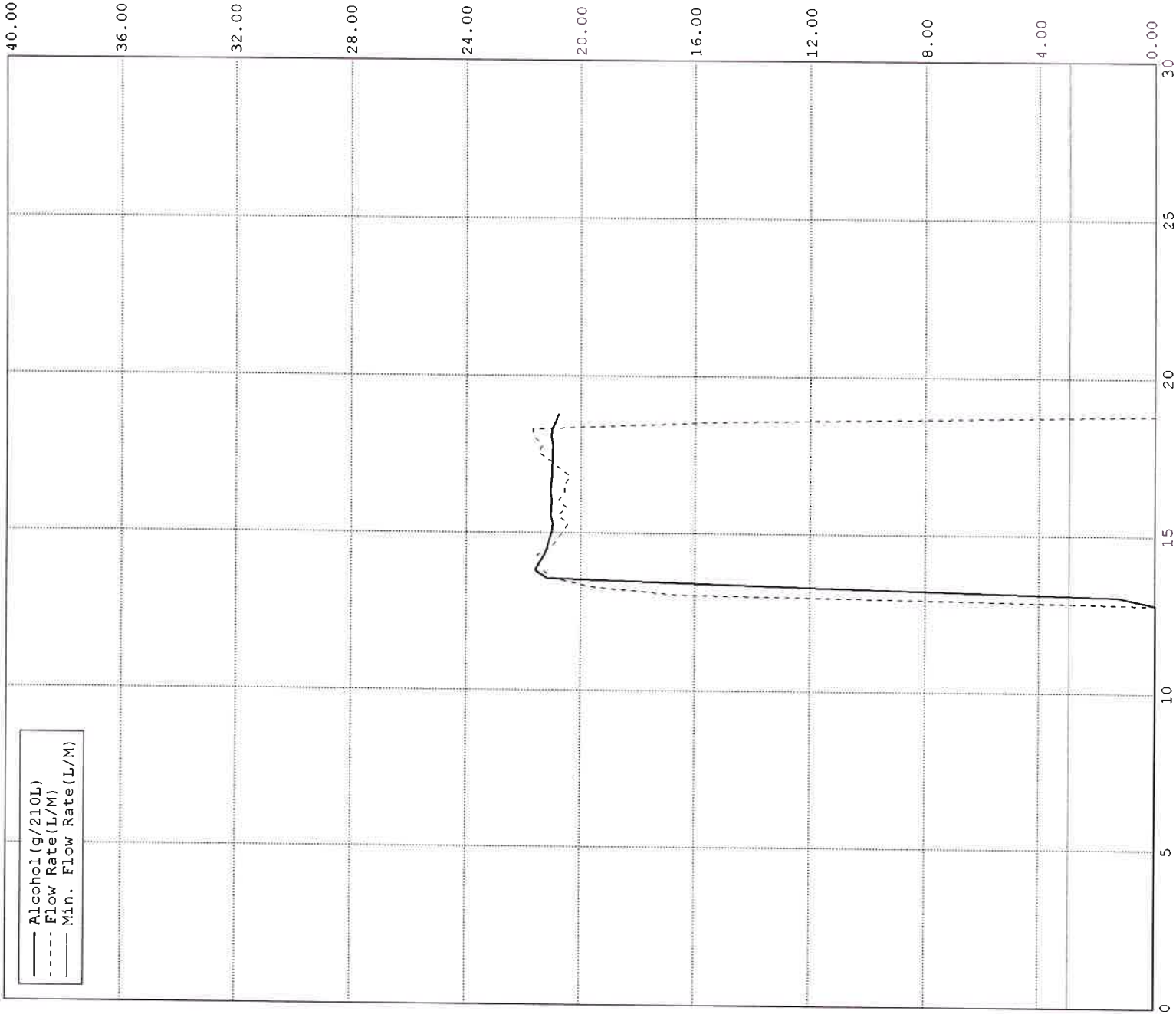
OPERATOR NAME:  
COLLEEN S OBRyant  
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 28.91: 0.077  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 14:03  
BLANK TEST 0.000 14:03  
INTERNAL STANDARD VERIFIED 14:03  
Xq = 0.084 (2.67%)  
EXTERNAL STANDARD 0.076 14:03  
X[1] = 0.0757 (-0.0013) (0.0021)  
BLANK TEST 0.000 14:04  
SUBJECT SAMPLE XXX 14:05  
X[1] = 0.1035 (-0.0186) (0.0008)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100373

Date: 11/30/2021  
Time: 14:08:18

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-IPA

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

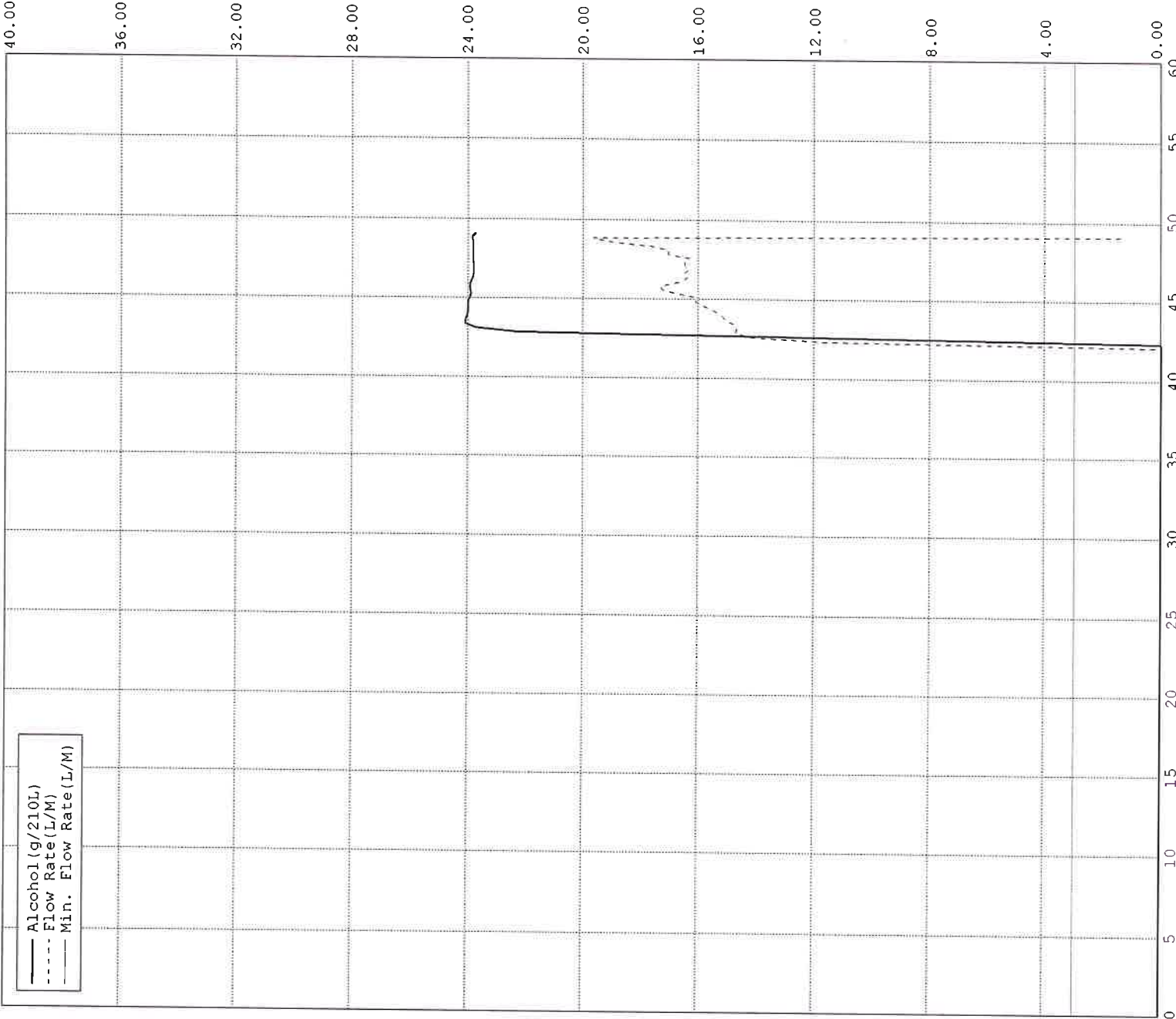
DEPT/AGENCY:  
AAA1  
CASE/REPORT: 21-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 28.92: 0.077  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:09
BLANK TEST	0.000	14:09
INTERNAL STANDARD	VERIFIED	14:09
Xq = 0.083 (2.24%)		
EXTERNAL STANDARD	0.076	14:09
X[1] = 0.0757 (-0.0014)	(0.0021)	
BLANK TEST	0.000	14:10
SUBJECT SAMPLE	XXX	14:11
X[1] = 0.1177 (-0.0291)	(0.0010)	

Interference Detected





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100373

Date: 11/30/2021  
Time: 14:15:42

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-NEGATIVE

OPERATOR NAME:  
COLLEEN S OBRYANT  
OPERATOR'S #: 6237

DEPT/AGENCY:  
AAA1

CASE/REPORT: 21-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

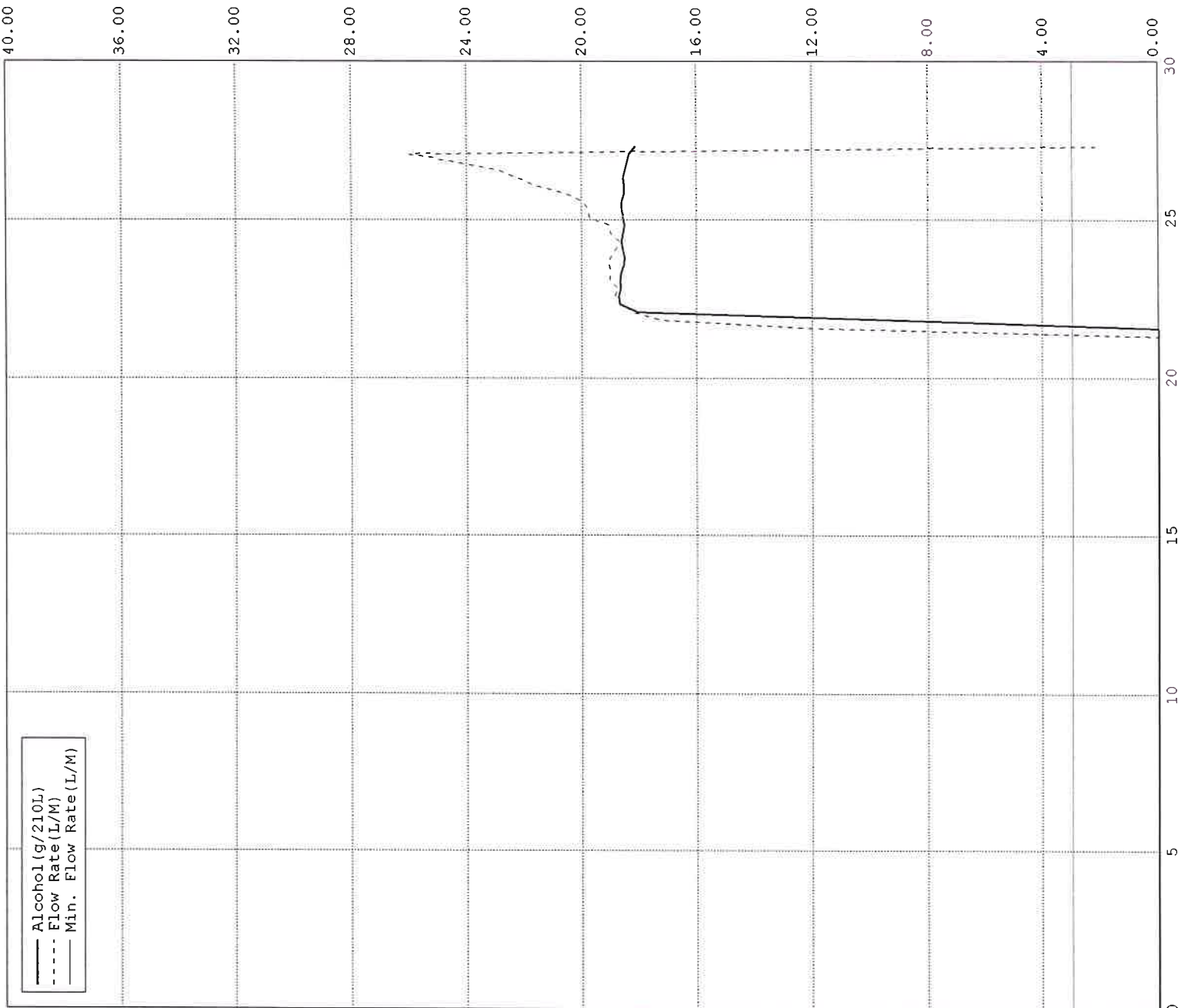
NOMINAL: 0.080  
TARGET AT 28.91: 0.077  
LOT #: AG018102  
EXPIRATION: 06/29/2022

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	14:16
BLANK TEST	0.000	14:16
INTERNAL STANDARD	VERIFIED	14:17
Xg = 0.083 (2.46%)		
EXTERNAL STANDARD	0.076	14:17
X[1] = 0.0760 (-0.0007)	(0.0027)	
BLANK TEST	0.000	14:18
SUBJECT SAMPLE (Vol=1.89L)	0.089	14:18
X[1] = 0.0894 (-0.0012)	(0.0007)	
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.075	14:19
X[1] = 0.0752 (-0.0014)	(0.0014)	
BLANK TEST	0.000	14:20

*Filter 2 Avg = -0.0012*

*Filter 3 Avg = 0.0001*

*CSB*



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100373

Date: 11/30/2021  
Time: 14:41:58

SUBJECT NAME:  
TEST TEST  
LICENSE #: NON-DRINKING

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	14:50
BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.076	14:51
BLANK TEST	0.000	14:52
SUBJECT SAMPLE (Vol=1.82L)	0.000	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.076	14:53
BLANK TEST	0.000	14:54

