

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100689 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)
- 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 1.5 L (1.3L to 1.7L)

Linearity Test (attached)

0.020g/210L Mnf: Burgas Lot: AG100401 Exp: 1/4/23
0.040g/210L Mnf: Burgas Lot: AG111710 Exp: 4/27/23
0.080g/210L Mnf: Burgas Lot: AG018102 Exp: 6/29/22
0.100g/210L Mnf: Burgas Lot: AG108404 Exp: 3/25/23
0.200g/210L Mnf: Guth Lot: 20510 Exp: 12/13/22
Simulator S/N: DR4161 Date Calibrated: 6/16/21
0.300g/210L Mnf: Guth Lot: 21030 Exp: 2/2/23
Simulator S/N: SD202 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: 100689

Date: 11/29/2021
Time: 13:27:21

VERSIONS

DMT: 3.02
PIC: 3.07
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.1°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.65 V PASSED
(0.99 V - 2.31 V)
Cooler Voltage = 1.60 V PASSED
(0.96 V - 2.24 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 526 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.1 in

PUMP INFO

Flow Rate = 3.972 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 = 0.086 0.81% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100689

Date: 11/29/2021

Time: 2:22 PM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 44.3°C

Current Barometer 29.3 in

Volume (Ltr) 1.41

Settings

Lamp: 1.63 V

Bias: 80 V

Cooler: 1.61 V

Chopper: 525 Hz

Voltages (V)

Flow: 0.99 V

Detector: -0.029 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 10/12/2021
Time: 14:39:38

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 0.976416 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0067 0.0010 <= b2 < 0.0100
b3 = 0.0004 0.0000 <= b3 < 0.0040
Xq = 0.0855 0.0500 <= Xq < 0.2000
a21 = 1.212362 1.050 <= a21 < 1.300
a31 = 0.543960 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100689

Date: 11/29/2021
Time: 14:27:26

SUBJECT NAME:
TEST TEST
LICENSE #: MIN VOLUME

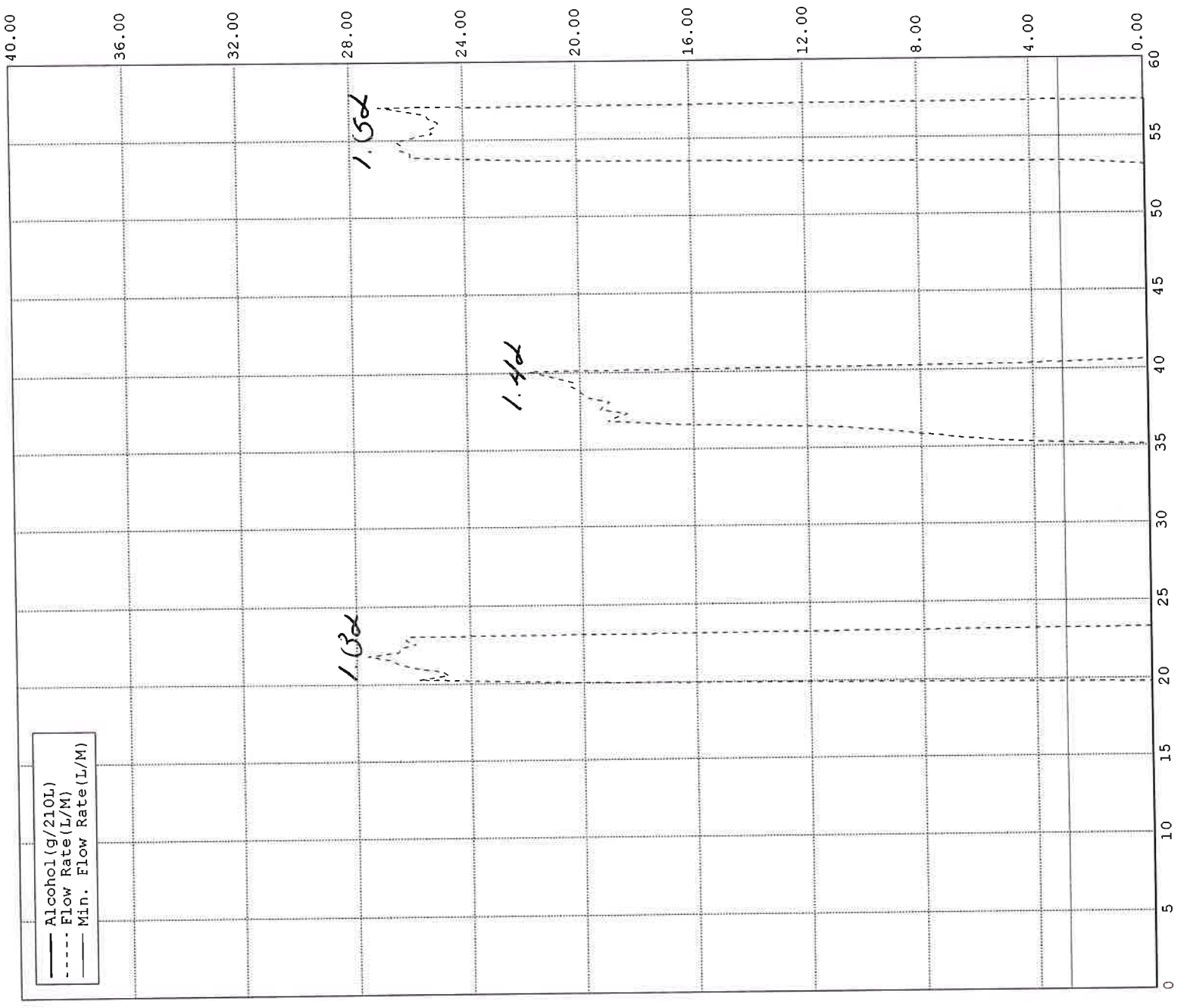
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.28: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:28
BLANK TEST	0.000	14:28
INTERNAL STANDARD	VERIFIED	14:28
EXTERNAL STANDARD	0.077	14:29
BLANK TEST	0.000	14:29
SUBJECT SAMPLE (Vol=1.59L)	0.000	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.077	14:32
BLANK TEST	0.000	14:32



LINEARITY CHECK

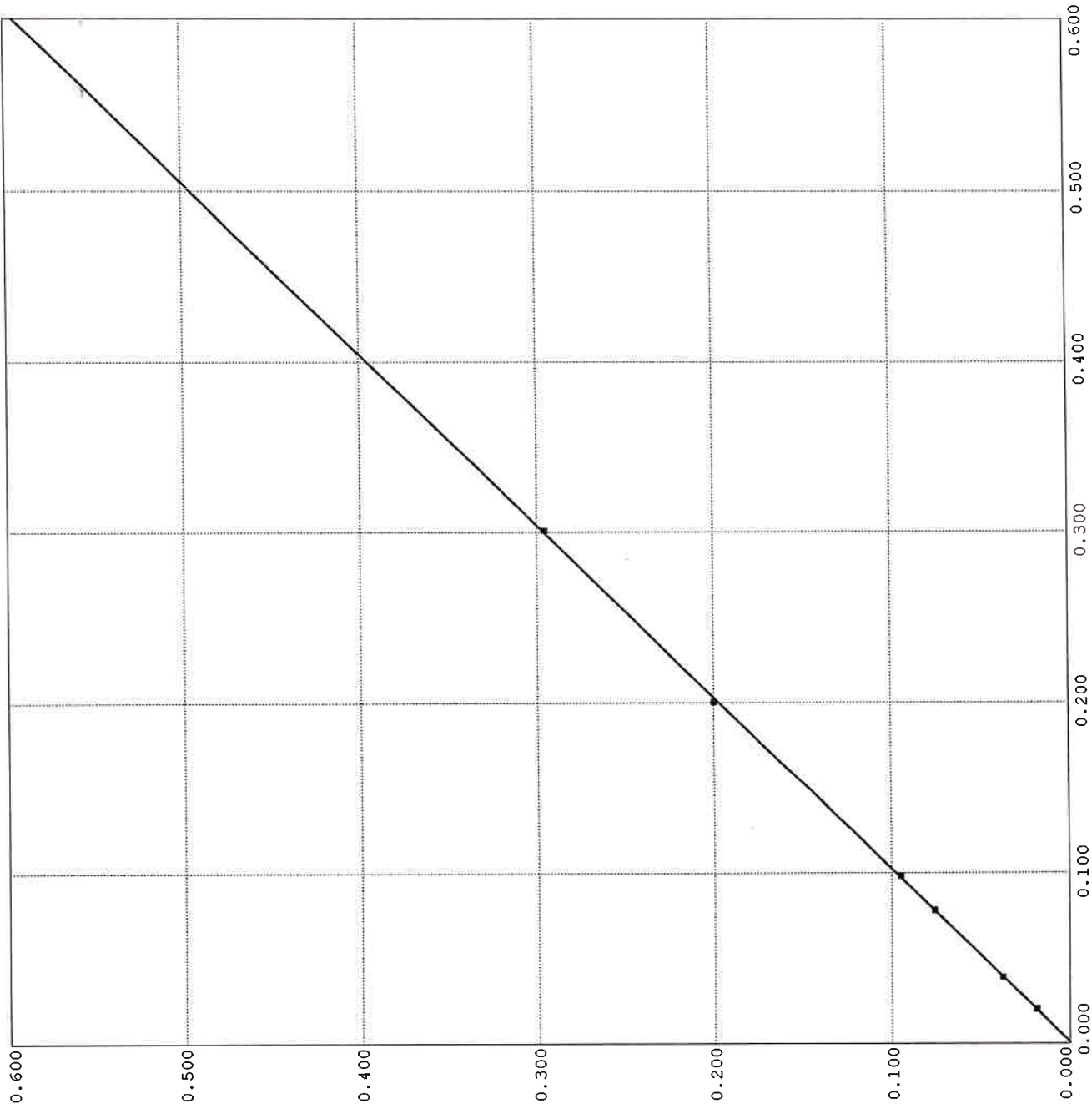
 Alaska Department of Public Safety
 DATAMASTER dmt: 100689

Date: 11/29/2021
 Time: 14:36:04

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0192	0.0004
0.039	0.0384	0.0005
0.078	0.0768	0.0004
0.098	0.0958	0.0004
0.200	0.2006	0.0005
0.300	0.2962	0.0011

SLOPE = 0.993250
 R² = 0.999845



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100689

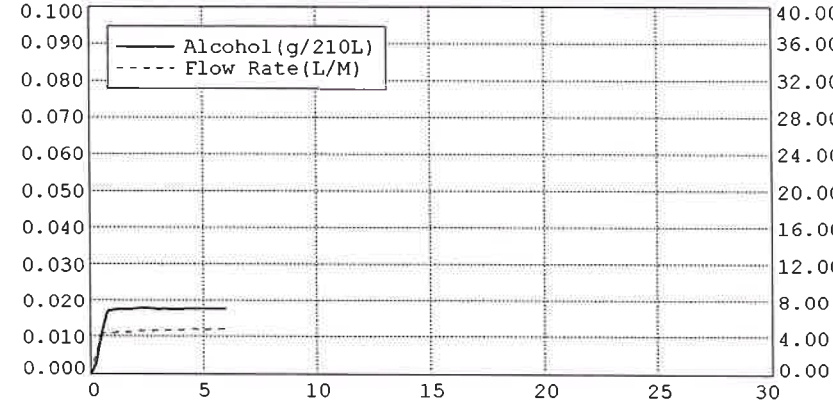
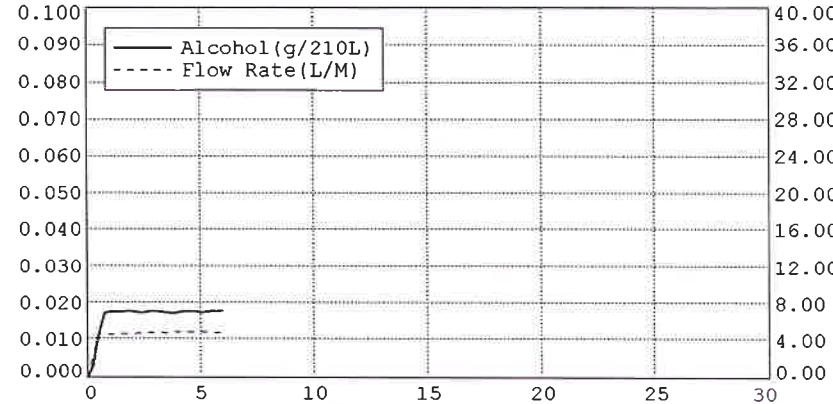
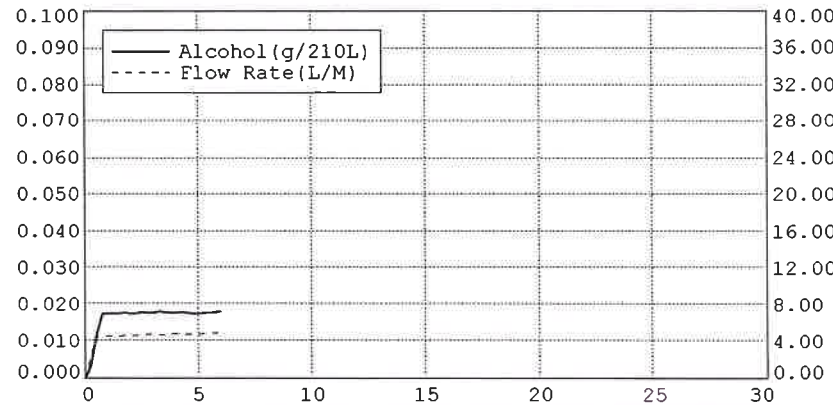
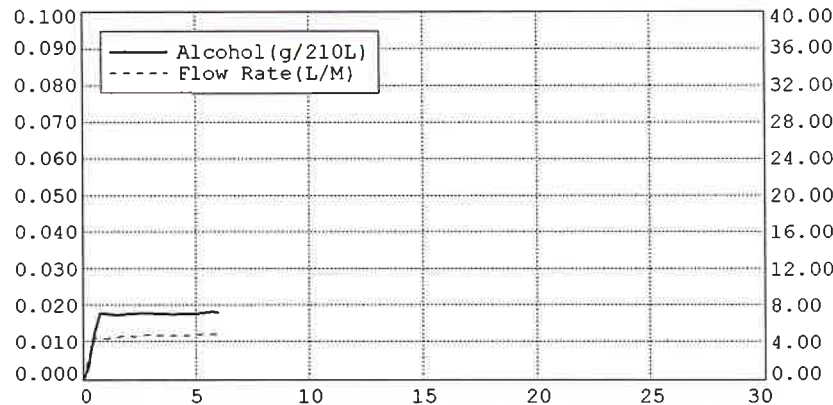
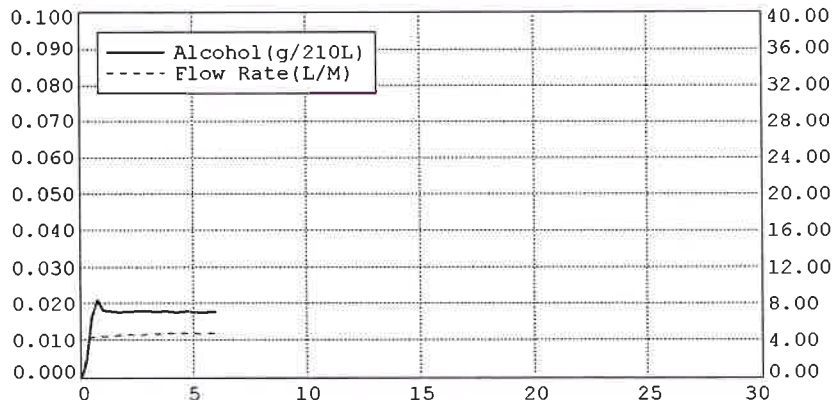
Date: 11/29/2021
 Time: 14:36:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.27: 0.020
 LOT #: AG100401
 EXPIRATION: 01/04/2023
 TANK PRESSURE: 912 psi

BLANK TEST	0.000	14:37
INTERNAL STANDARD	VERIFIED	14:37
EXTERNAL STANDARD	0.020	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.019	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.019	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.019	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.019	14:41
BLANK TEST	0.000	14:42

Average = 0.0192
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100689

Date: 11/29/2021
 Time: 14:43:42

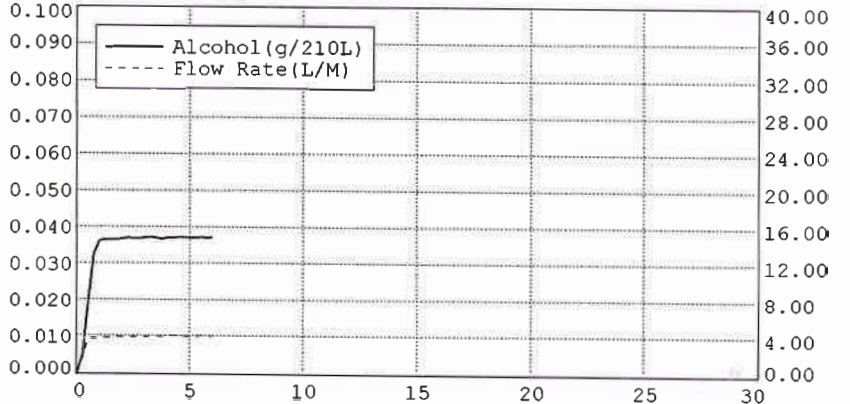
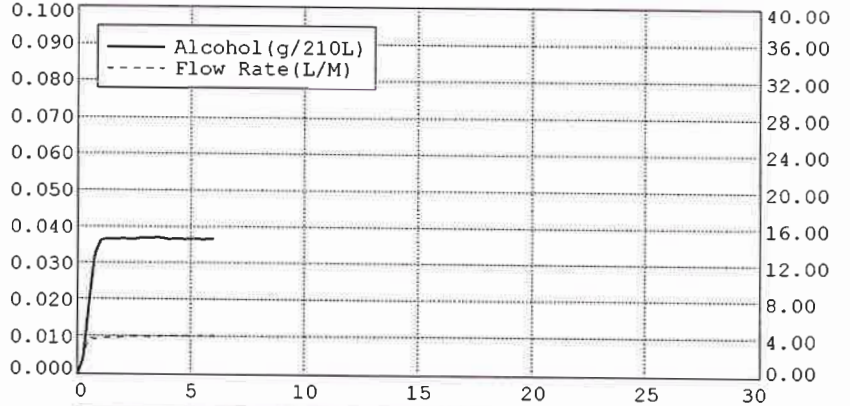
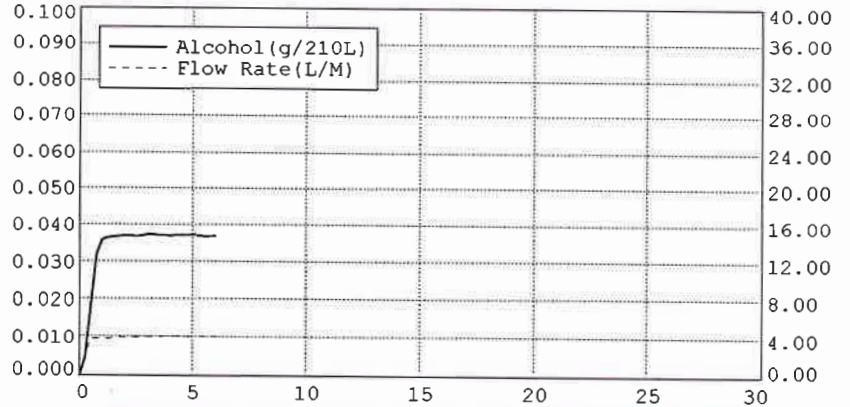
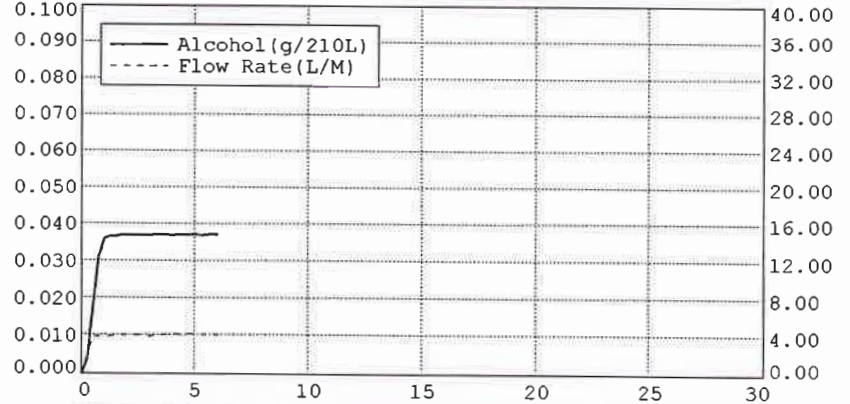
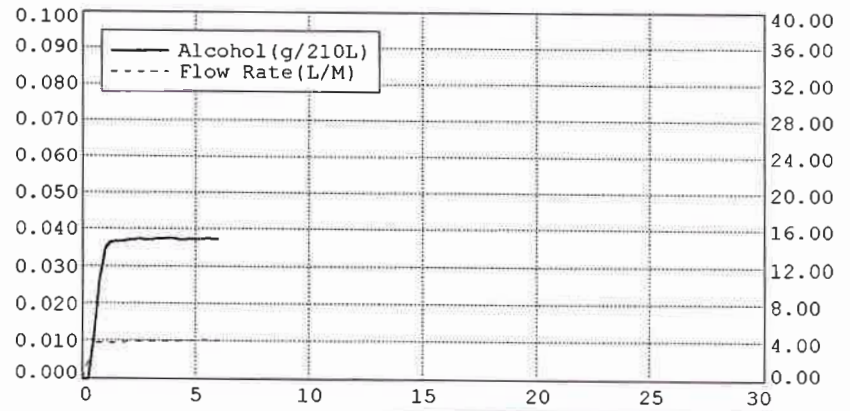
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.27: 0.039
 LOT #: AG111710
 EXPIRATION: ~~04/24/2023~~ 04/27/2023
 TANK PRESSURE: 587 psi

COB 12/07/2021

BLANK TEST	0.000	14:44
INTERNAL STANDARD	VERIFIED	14:44
EXTERNAL STANDARD	0.039	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.038	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.038	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.038	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.039	14:49
BLANK TEST	0.000	14:50

Average = 0.0384
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100689

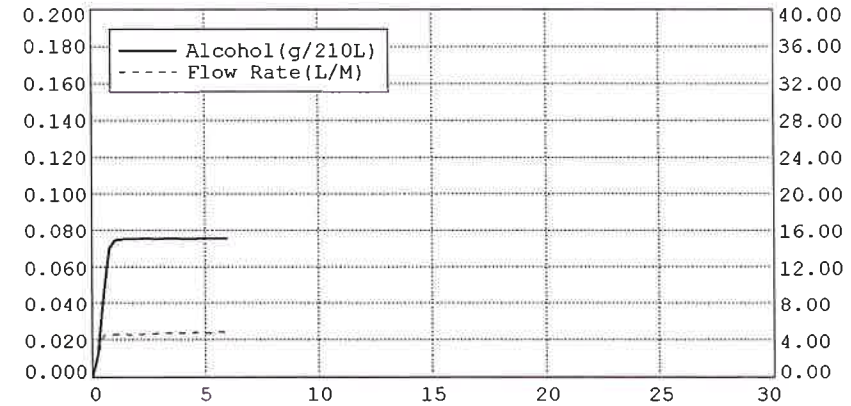
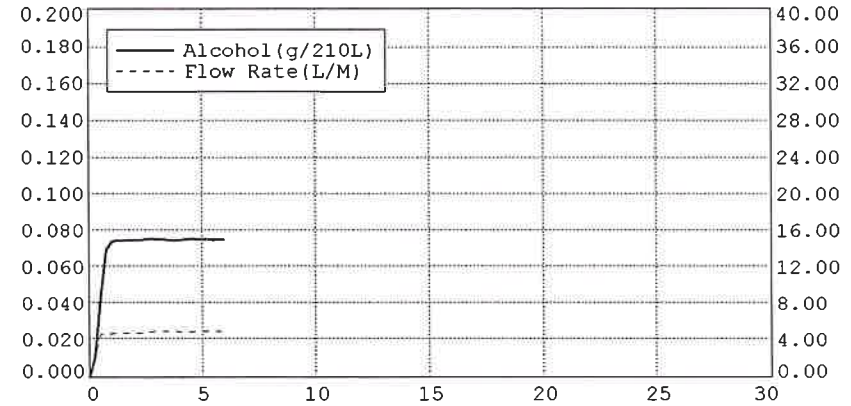
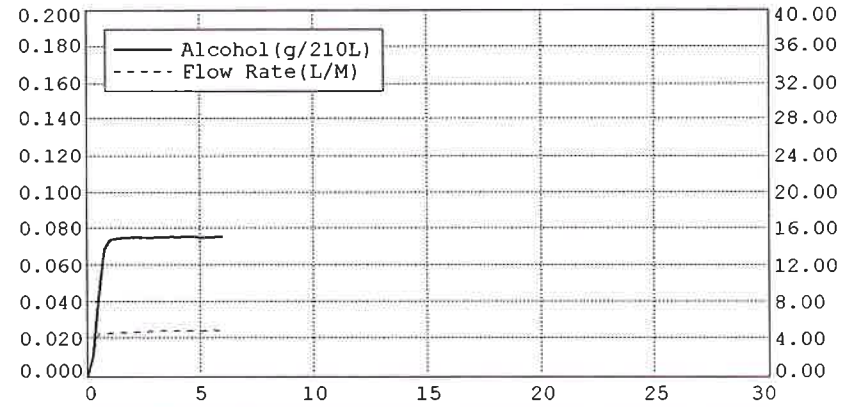
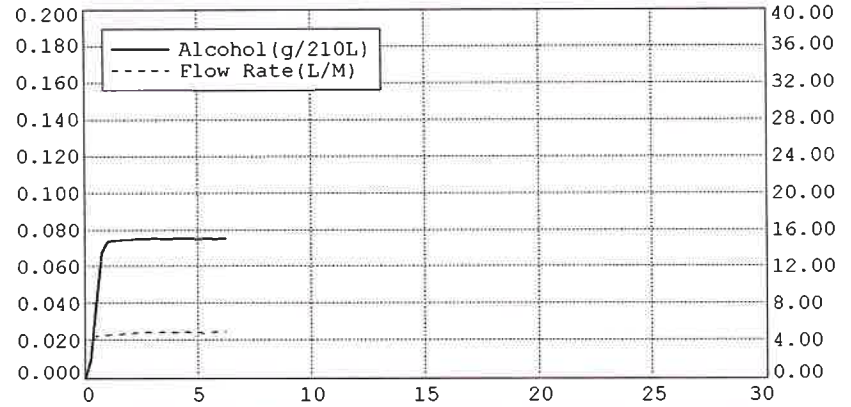
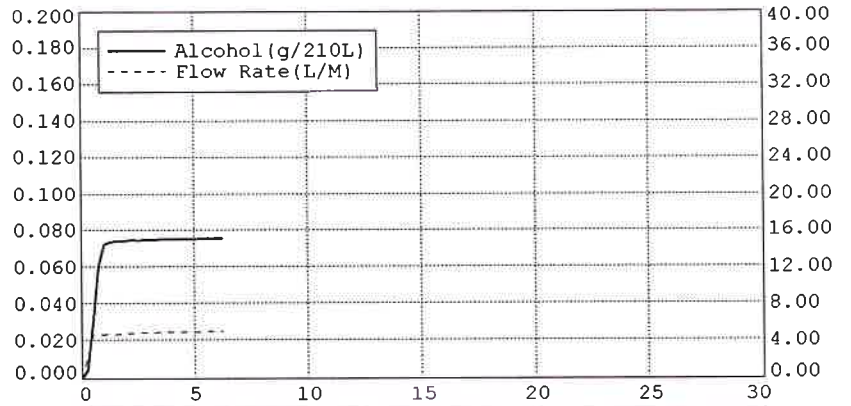
Date: 11/29/2021
Time: 14:50:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 952 psi

BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:51
EXTERNAL STANDARD	0.077	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.077	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.077	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.076	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.077	14:56
BLANK TEST	0.000	14:57

Average = 0.0768
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100689

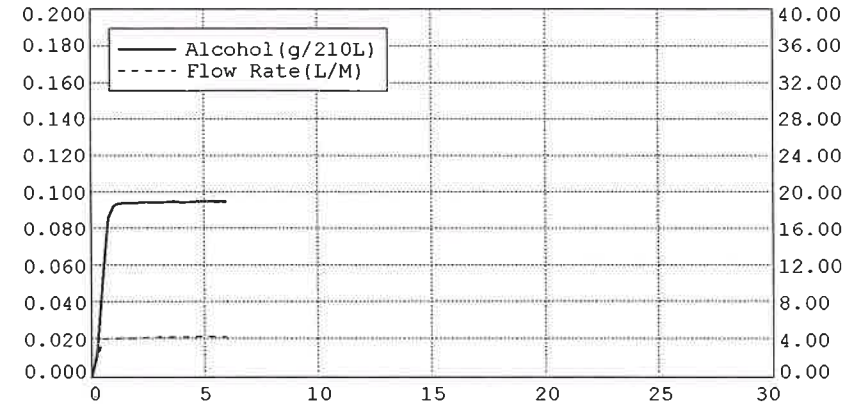
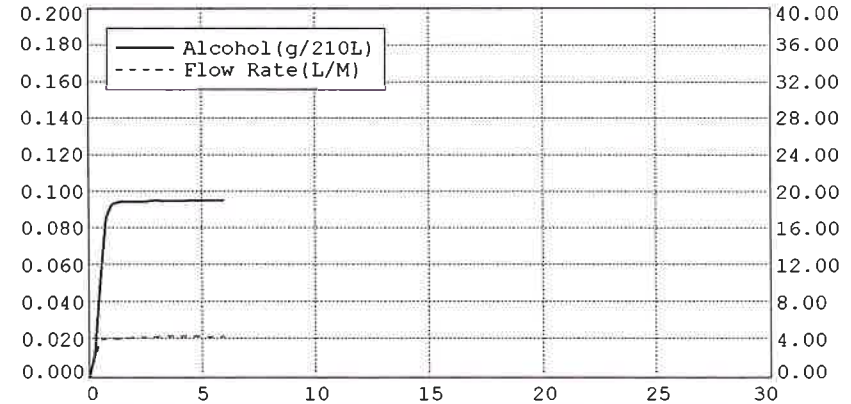
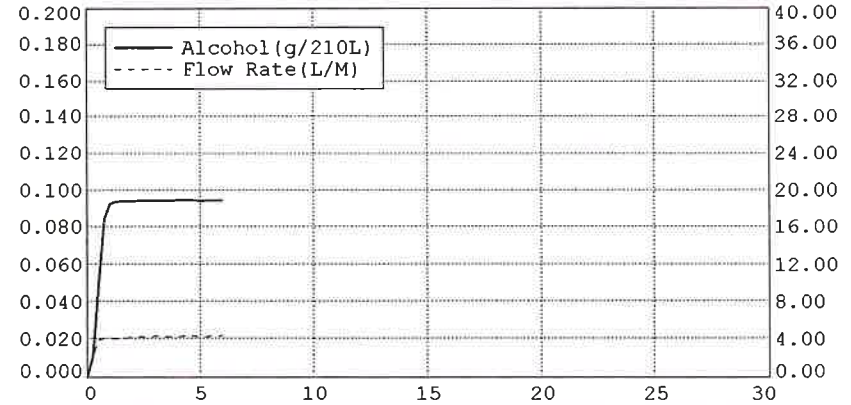
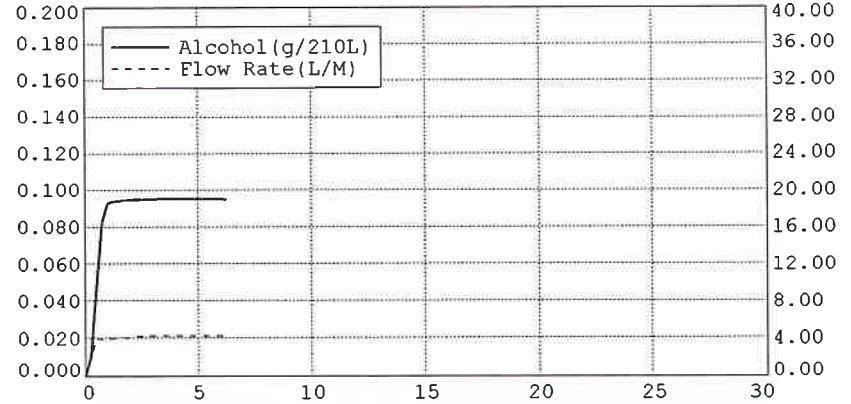
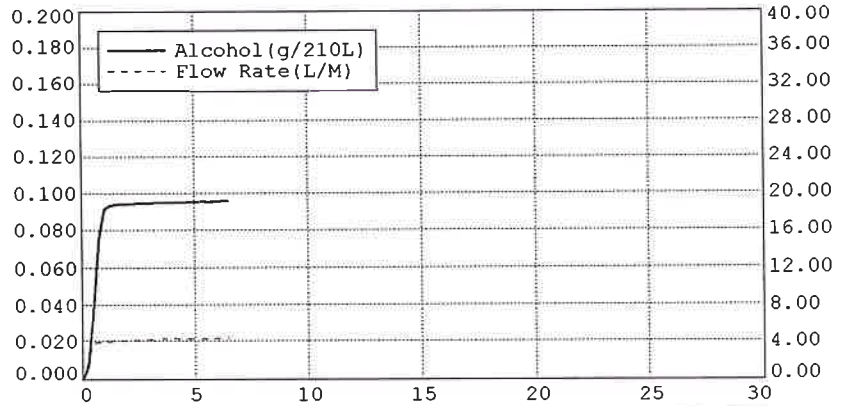
Date: 11/29/2021
Time: 15:00:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.25: 0.098
LOT #: AG108404
EXPIRATION: 03/25/2023
TANK PRESSURE: 686 psi

BLANK TEST	0.000	15:01
INTERNAL STANDARD	VERIFIED	15:01
EXTERNAL STANDARD	0.096	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.096	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.095	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.096	15:04
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.096	15:05
BLANK TEST	0.000	15:06

Average = 0.0958
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

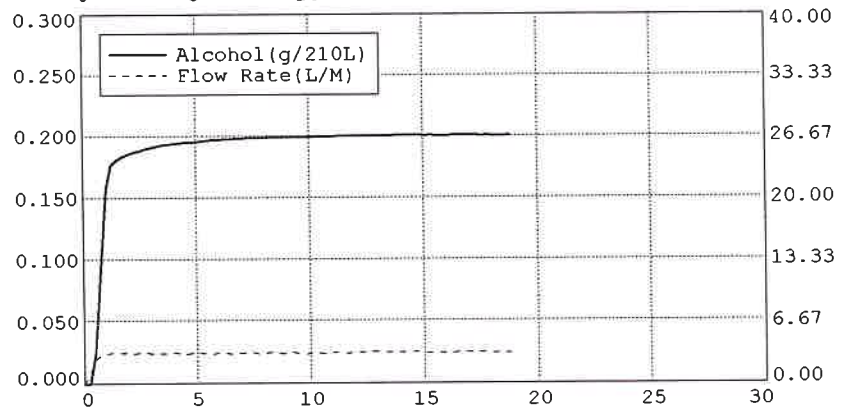
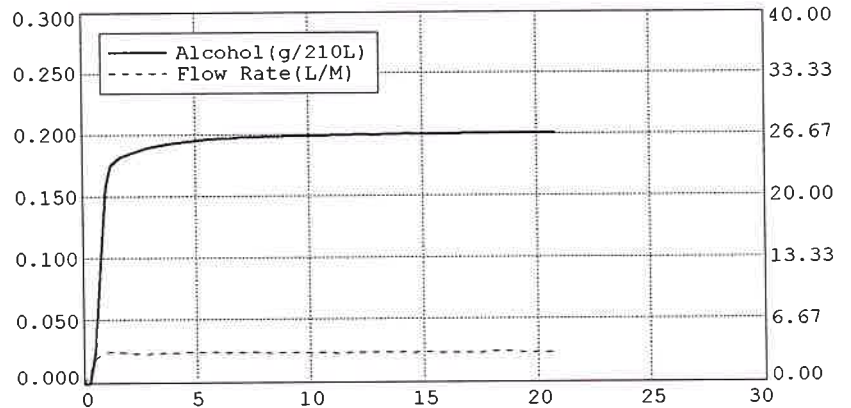
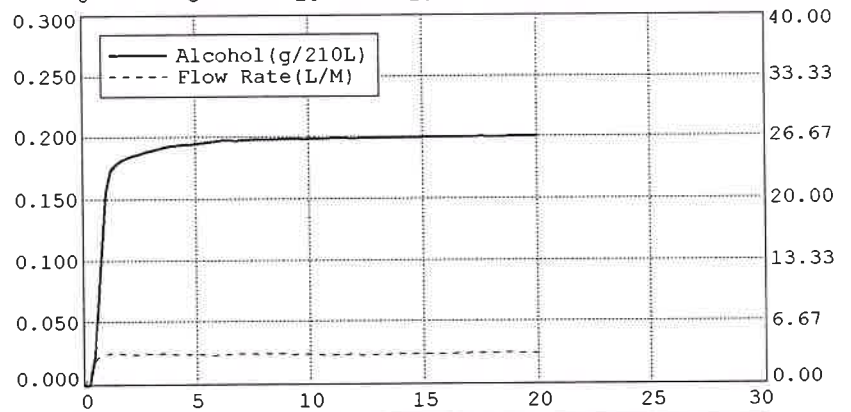
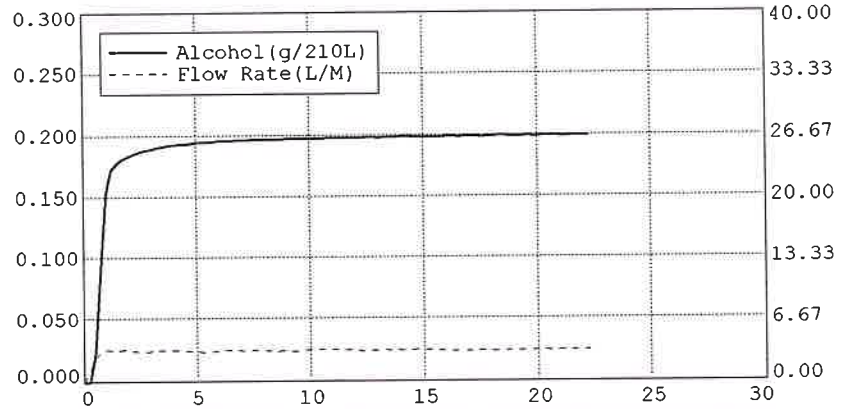
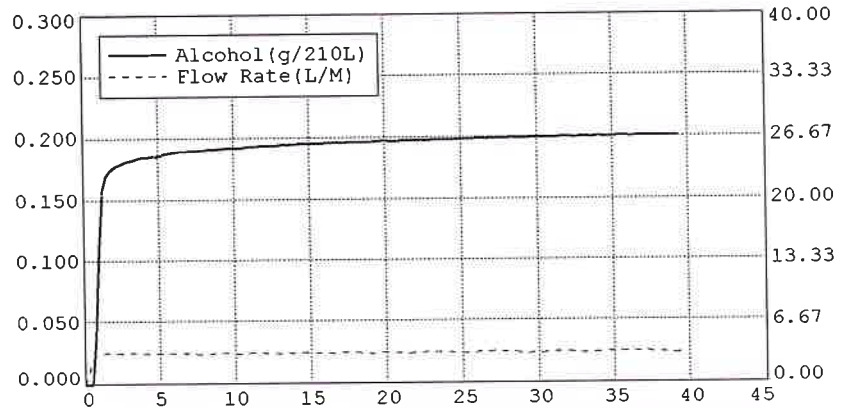
Alaska Department of Public Safety
 DATAMASTER dmt: 100689

Date: 11/29/2021
 Time: 15:19:43

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

BLANK TEST	0.000	15:28
INTERNAL STANDARD	VERIFIED	15:29
EXTERNAL STANDARD	0.201	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.200	15:31
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.200	15:32
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.201	15:33
BLANK TEST	0.000	15:34
EXTERNAL STANDARD	0.201	15:35
BLANK TEST	0.000	15:36

Average = 0.2006
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

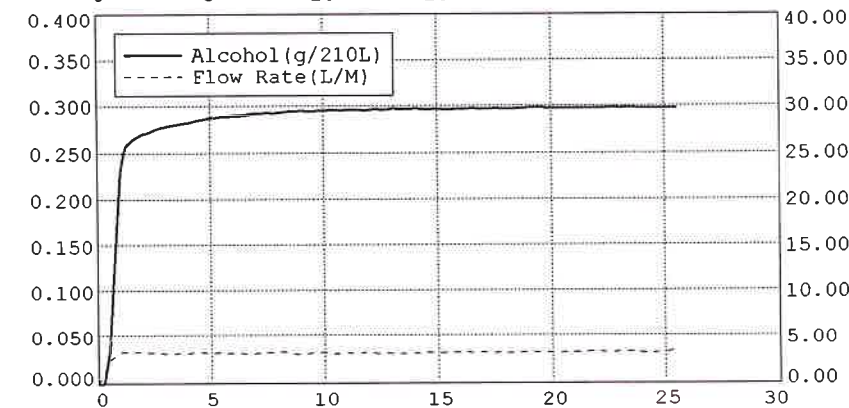
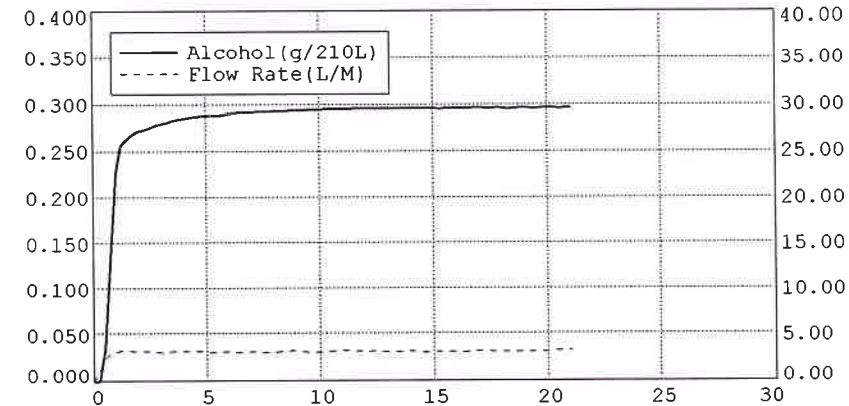
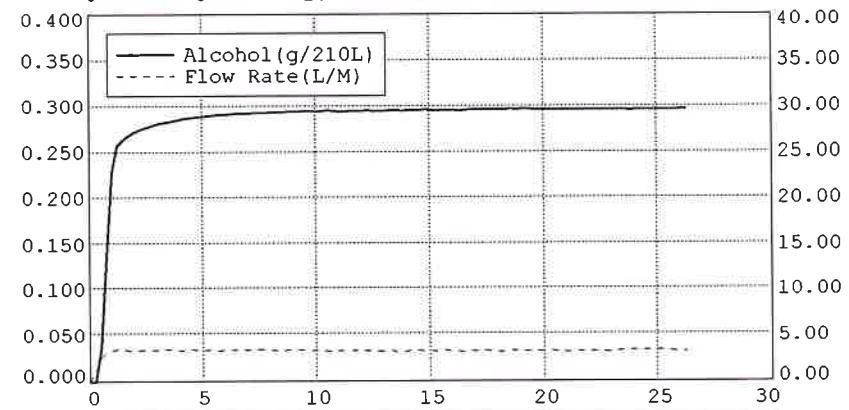
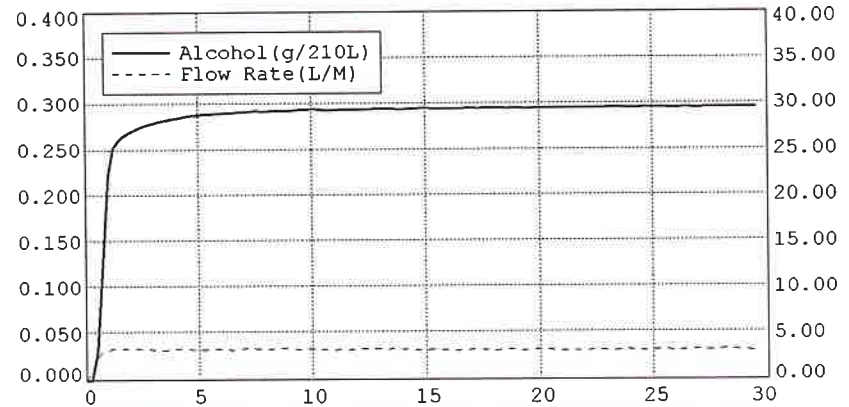
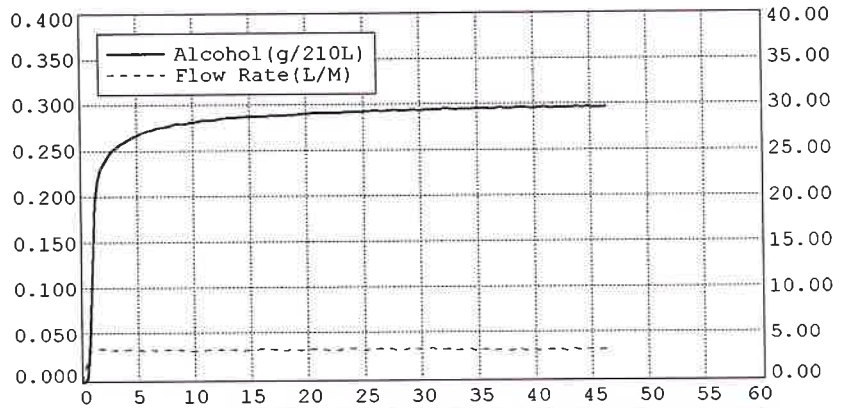
Alaska Department of Public Safety
 DATAMASTER dmt: 100689

Date: 11/29/2021
 Time: 15:37:32

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 21030
 EXPIRATION: 02/02/2023

BLANK TEST	0.000	15:38
INTERNAL STANDARD	VERIFIED	15:38
EXTERNAL STANDARD	0.296	15:39
BLANK TEST	0.000	15:40
EXTERNAL STANDARD	0.295	15:41
BLANK TEST	0.000	15:42
EXTERNAL STANDARD	0.296	15:42
BLANK TEST	0.000	15:43
EXTERNAL STANDARD	0.296	15:43
BLANK TEST	0.000	15:44
EXTERNAL STANDARD	0.298	15:45
BLANK TEST	0.000	15:46

Average = 0.2962
 Std Dev = 0.0011



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100689

Date: 11/29/2021

Time: 16:24:33

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 29.19: 0.078

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

PASSED

BLANK TEST

0.000

INTERNAL STANDARD

VERIFIED

0.076

EXTERNAL STANDARD

0.000

BLANK TEST

INCOMPLETE

SUBJECT SAMPLE

16:25

16:25

16:25

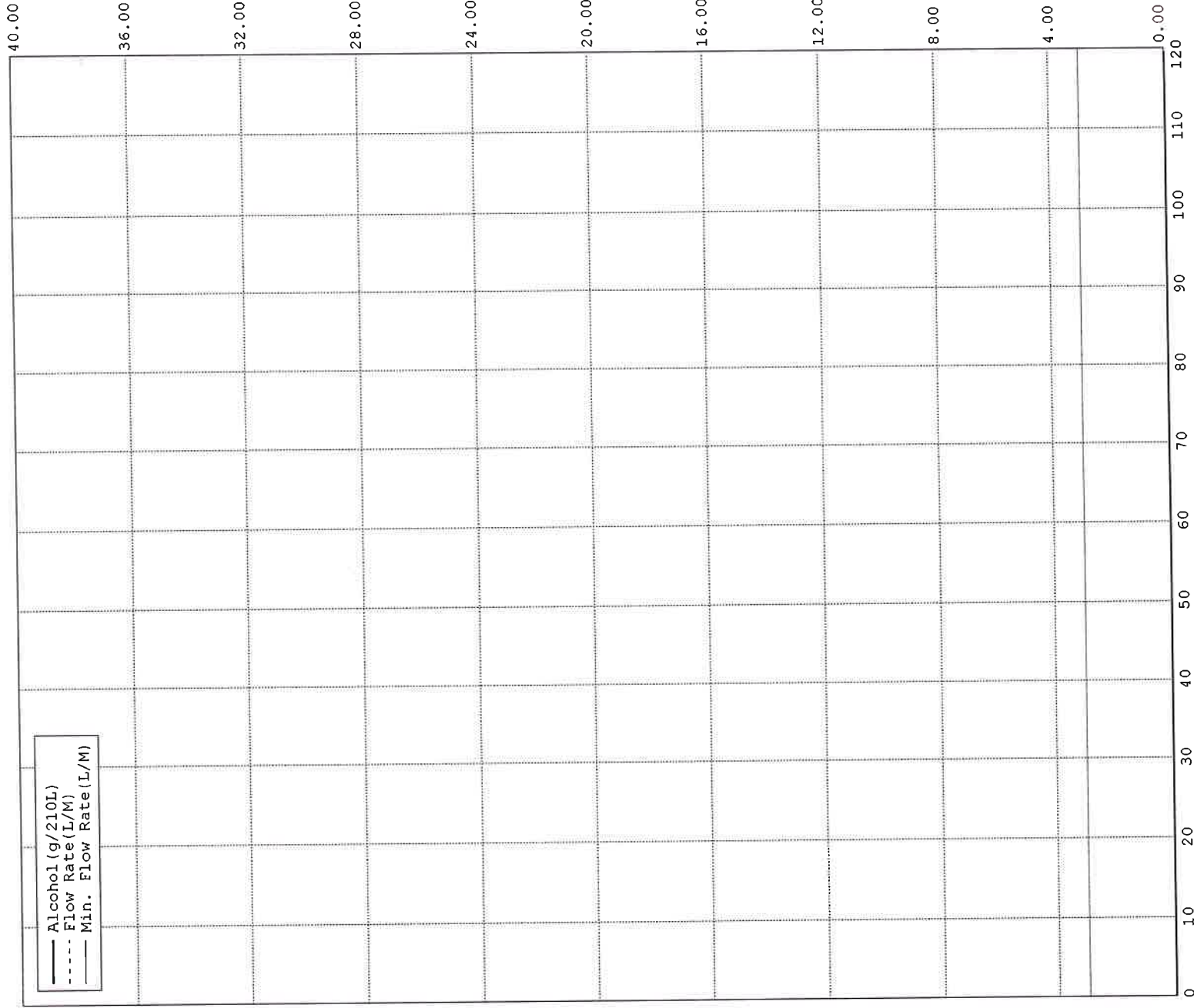
16:25

16:26

16:26

16:28

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



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100689

Date: 11/29/2021

Time: 16:38:53

SUBJECT NAME:

TEST TEST

LICENSE #: INVALID

OPERATOR NAME:

COLLIEN S OBRyant

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAA1

CASE/REPORT: 21-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

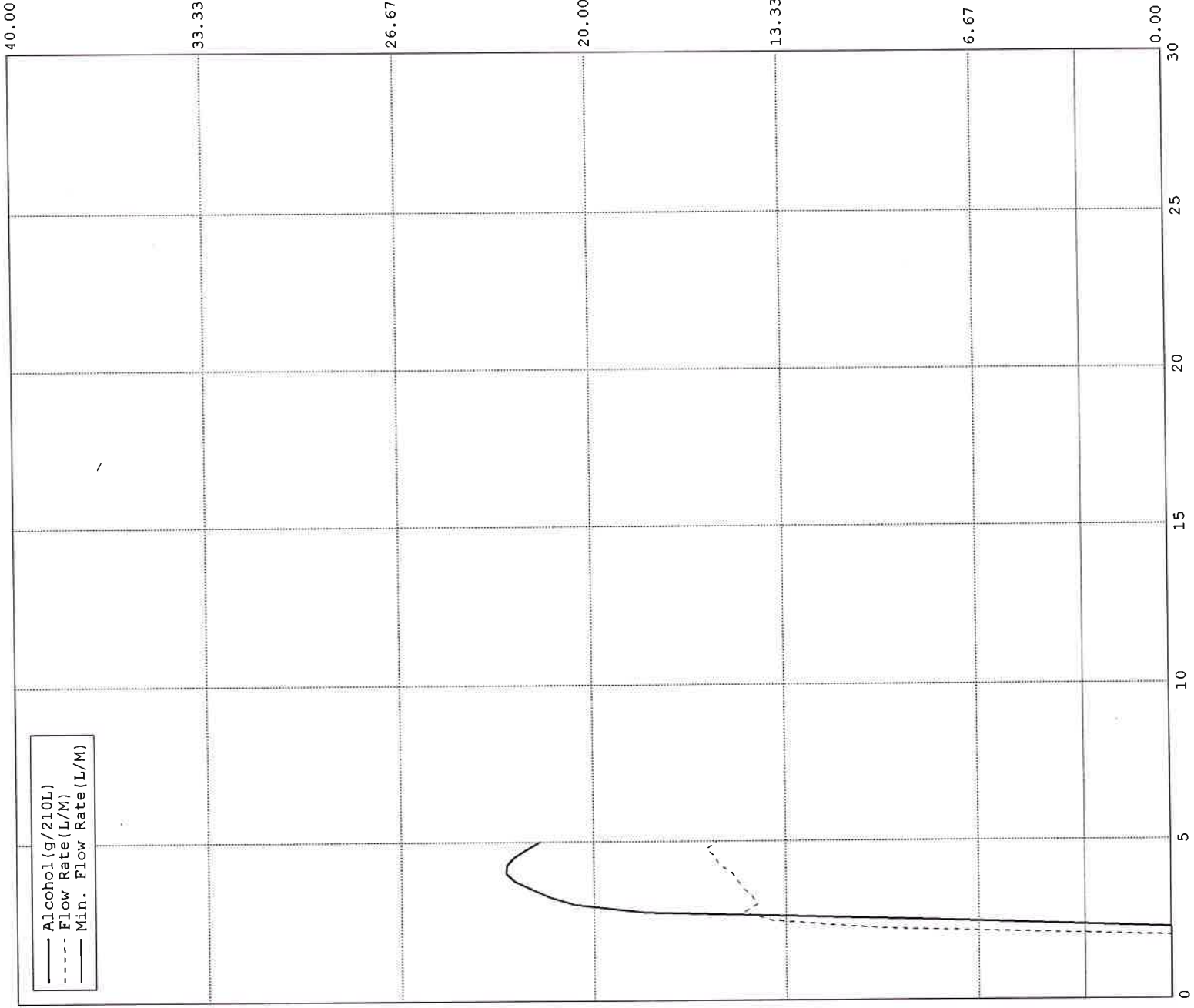
TARGET AT 29.18: 0.078

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	16:40
BLANK TEST	0.000	16:40
INTERNAL STANDARD	VERIFIED	16:40
EXTERNAL STANDARD	0.076	16:40
BLANK TEST	0.000	16:41
SUBJECT SAMPLE	INVALID	16:42

CSB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 11/30/2021
Time: 08:51:07

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

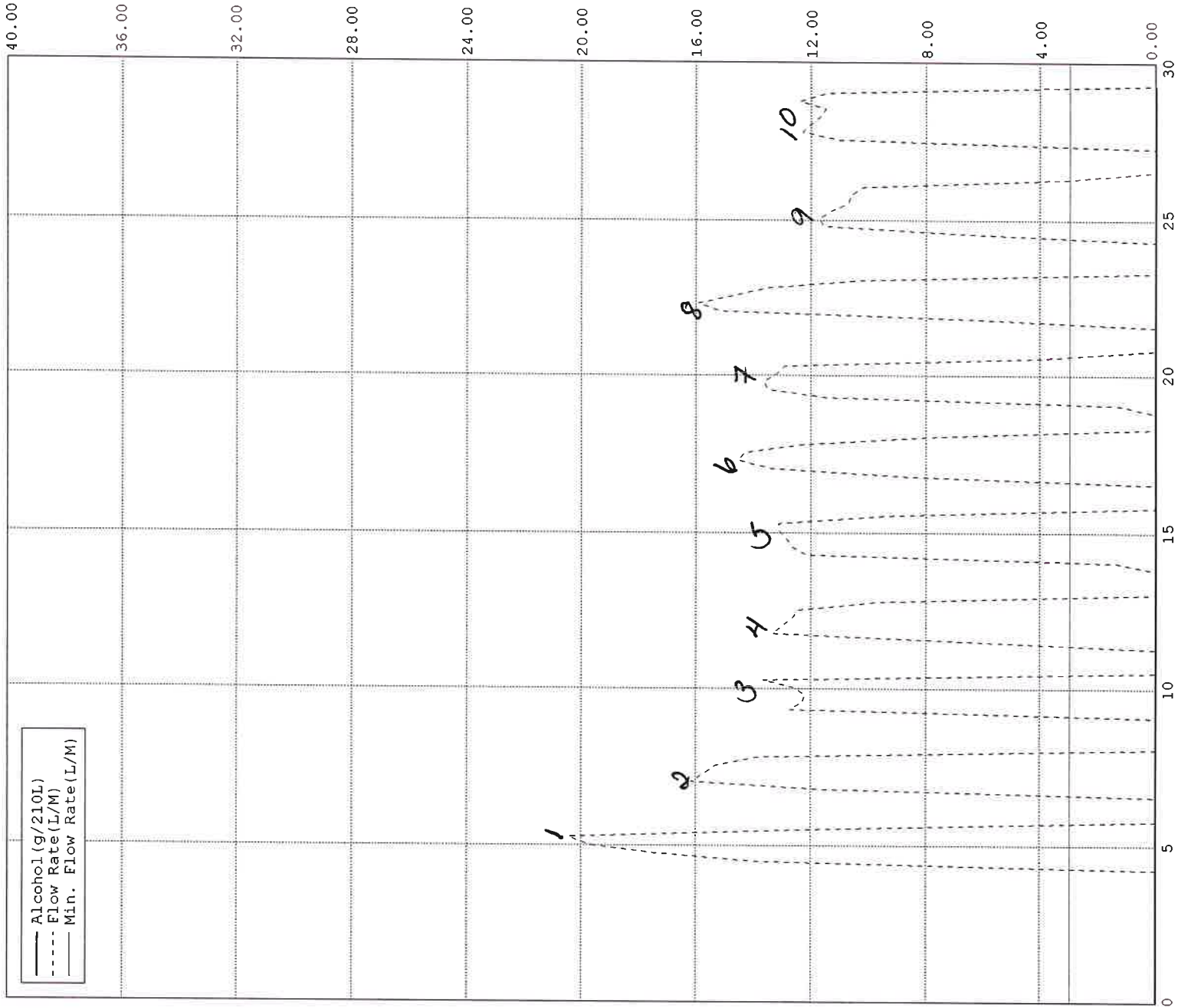
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.84: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 08:52
BLANK TEST 0.000 08:52
INTERNAL STANDARD VERIFIED 08:52
EXTERNAL STANDARD 0.075 08:52
BLANK TEST 0.000 08:53
SUBJECT SAMPLE XXX 08:54

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 11/30/2021
Time: 08:55:51

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

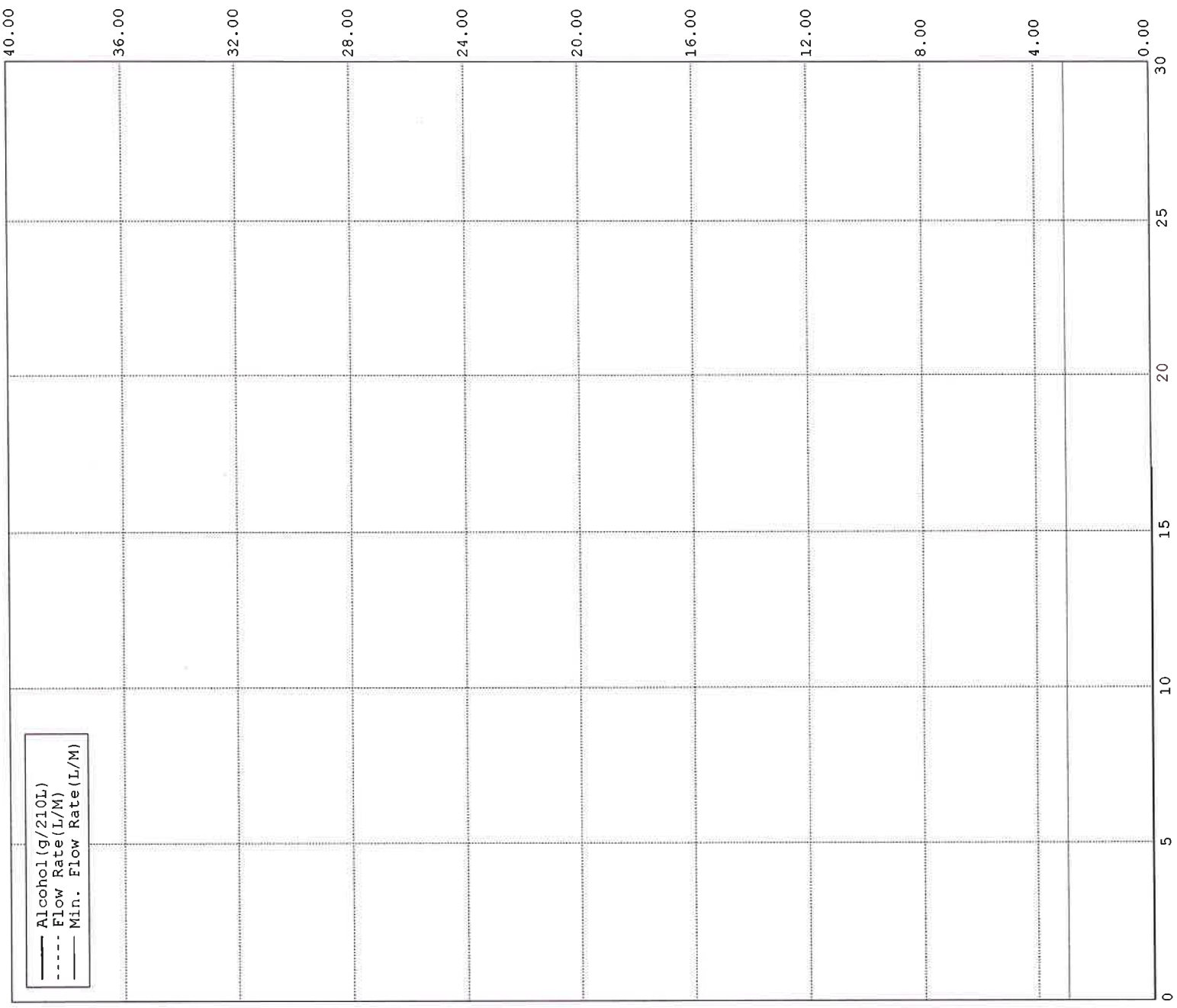
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

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

DIAGNOSTIC CHECK PASSED 08:57
BLANK TEST 0.000 08:57
INTERNAL STANDARD VERIFIED 08:57
EXTERNAL STANDARD 0.075 08:58
BLANK TEST 0.000 08:59

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 11/30/2021
Time: 14:00:09

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

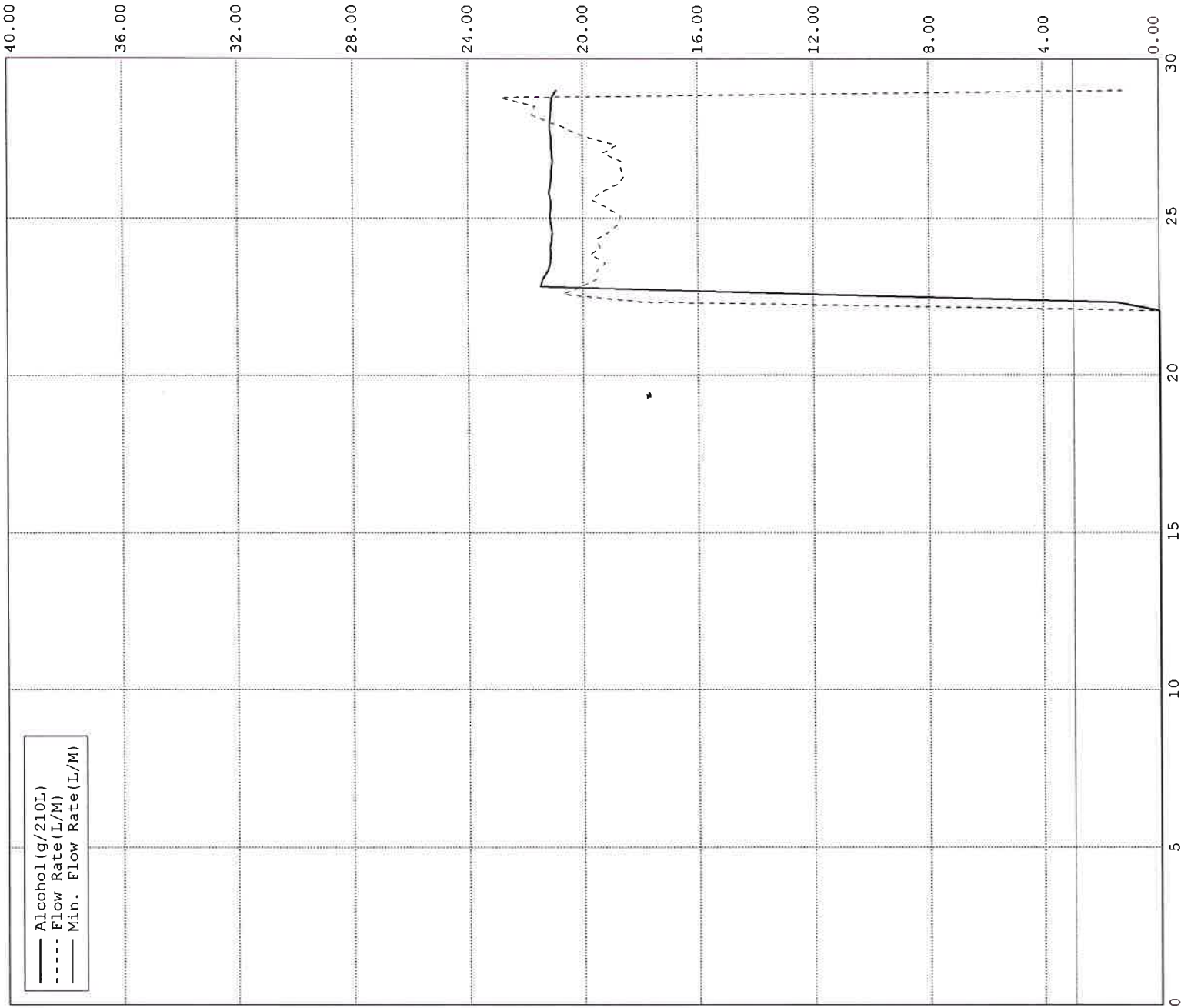
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.89: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 14:01
BLANK TEST 0.000 14:01
INTERNAL STANDARD VERIFIED 14:01
Xq = 0.086 (0.71%)
EXTERNAL STANDARD 0.075 14:01
X[1] = 0.0750 (-0.0025) (0.0033)
BLANK TEST 0.000 14:02
SUBJECT SAMPLE XXX 14:03
X[1] = 0.1041 (-0.0186) (0.0020)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 11/30/2021
Time: 14:00:09

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

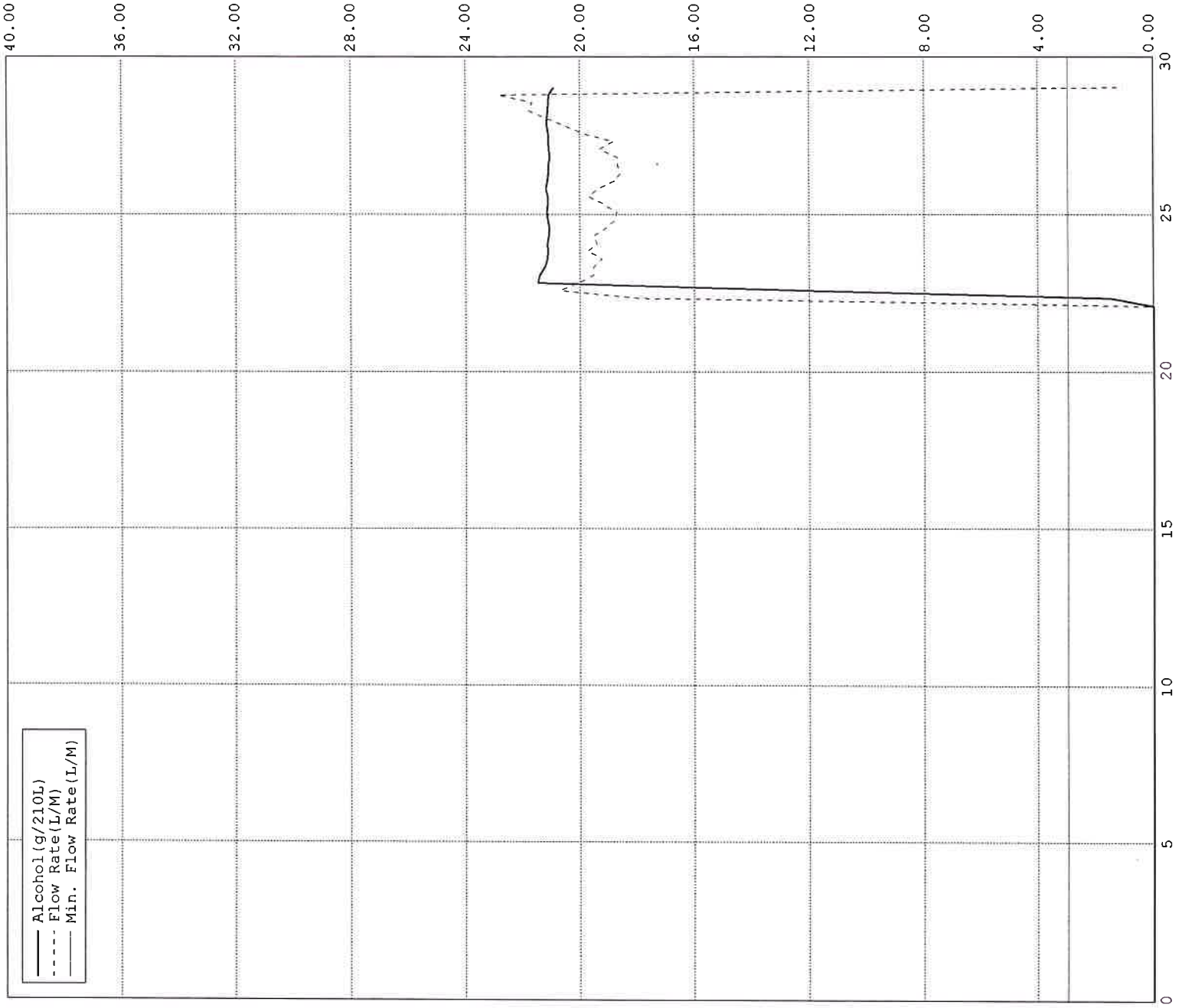
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.89: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 14:01
BLANK TEST 0.000 14:01
INTERNAL STANDARD VERIFIED 14:01
Xq = 0.086 (0.71%)
EXTERNAL STANDARD 0.075 14:01
X[1] = 0.0750 (-0.0025) (0.0033)
BLANK TEST 0.000 14:02
SUBJECT SAMPLE XXX 14:03
X[1] = 0.1041 (-0.0186) (0.0020)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 11/30/2021
Time: 14:13:32

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

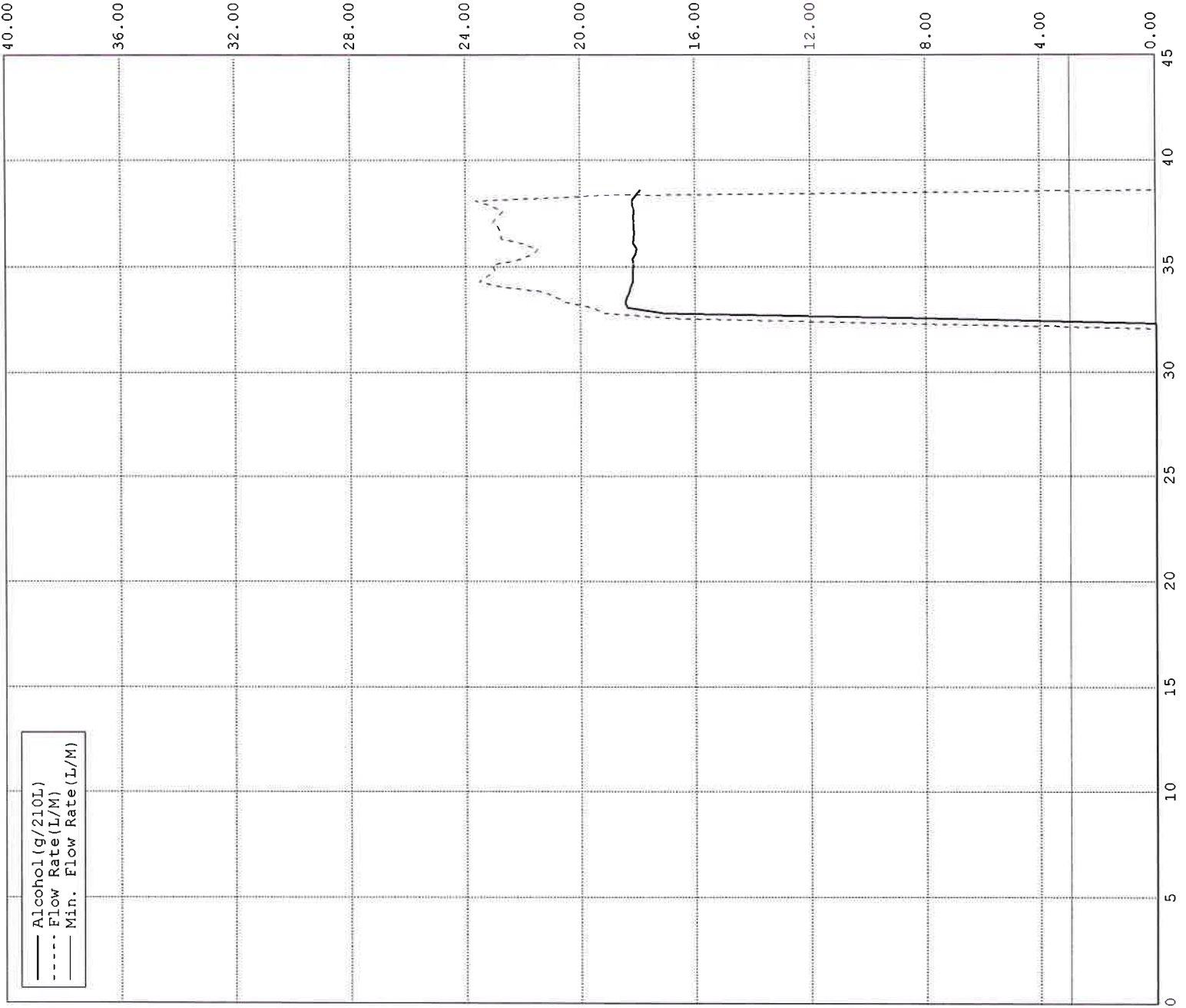
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.89: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:15
BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:15
Xq = 0.087 (1.22%)		
EXTERNAL STANDARD	0.076	14:15
X[1] = 0.0755 (-0.0013) (0.0029)		
BLANK TEST	0.000	14:16
SUBJECT SAMPLE (Vol=2.22L)	0.089	14:17
X[1] = 0.0897 (-0.0019) (0.0004)		
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.075	14:18
X[1] = 0.0748 (-0.0020) (0.0020)		
BLANK TEST	0.000	14:19

Filter 2 Avg = -0.0001

Filter 3 Avg = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 11/30/2021
Time: 14:48:47

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 28.91: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:49
BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.075	14:50
BLANK TEST	0.000	14:51
SUBJECT SAMPLE (Vol=2.46L)	0.000	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.076	14:52
BLANK TEST	0.000	14:53

CS

