

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100397 Analyst: C. O. Bryant Start Date: 2/1/22

- Diagnostic Test (attached)
- Adjust voltages, if needed
 - o Lamp (2.6V Maximum)
 - o Bias
 - o Cooler (2.0V Maximum)
- Internal Standard value \leq 3.00%
- o Chopper Frequency
- o 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: 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: 8/25/23
0.200g/210L Mnf: Argas Lot: 20510 Exp: 12/3/22
Simulator S/N: DR4161 Date Calibrated: 6/16/21
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: Guth Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
Simulator S/N: SD1177 Date Calibrated: 6/15/21
Isopropanol Mnf: Guth Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
Simulator S/N: SD1198 Date Calibrated: 6/15/21
Neg. Control Mnf: Guth 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 ~~02/6/22~~ 03/2/22 ~~was not upload~~
- Remove Tank Prior to Shutdown
- Add Linearity Data to Spreadsheet

End Date: 2/2/22 02/6/22
* 3/2/22

** Completion of certification delayed due to uploading issues. Changed the Cermetek box on modem board + successfully uploaded. Does not affect validity of the certification. 03/2/22*

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 02/01/2022
Time: 16:24:16

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 = 1.69 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 = 538 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.334 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 = 0.093 1.21% PASSED
(0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100397

Date: 02/02/2022

Time: 8:45 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 48.0°C

Current Barometer 29.7 in

Volume (Ltr) 1.59

Settings

Lamp: 1.74 V

Bias: 81 V

Cooler: 1.74 V

Chopper: 537 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.062 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 12/29/2021
Time: 12:07:55

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.981690 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0078 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0943 0.0500 <= Xq < 0.2000
a21 = 1.214245 1.050 <= a21 < 1.300
a31 = 0.511454 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 02/02/2022
Time: 09:27:16

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

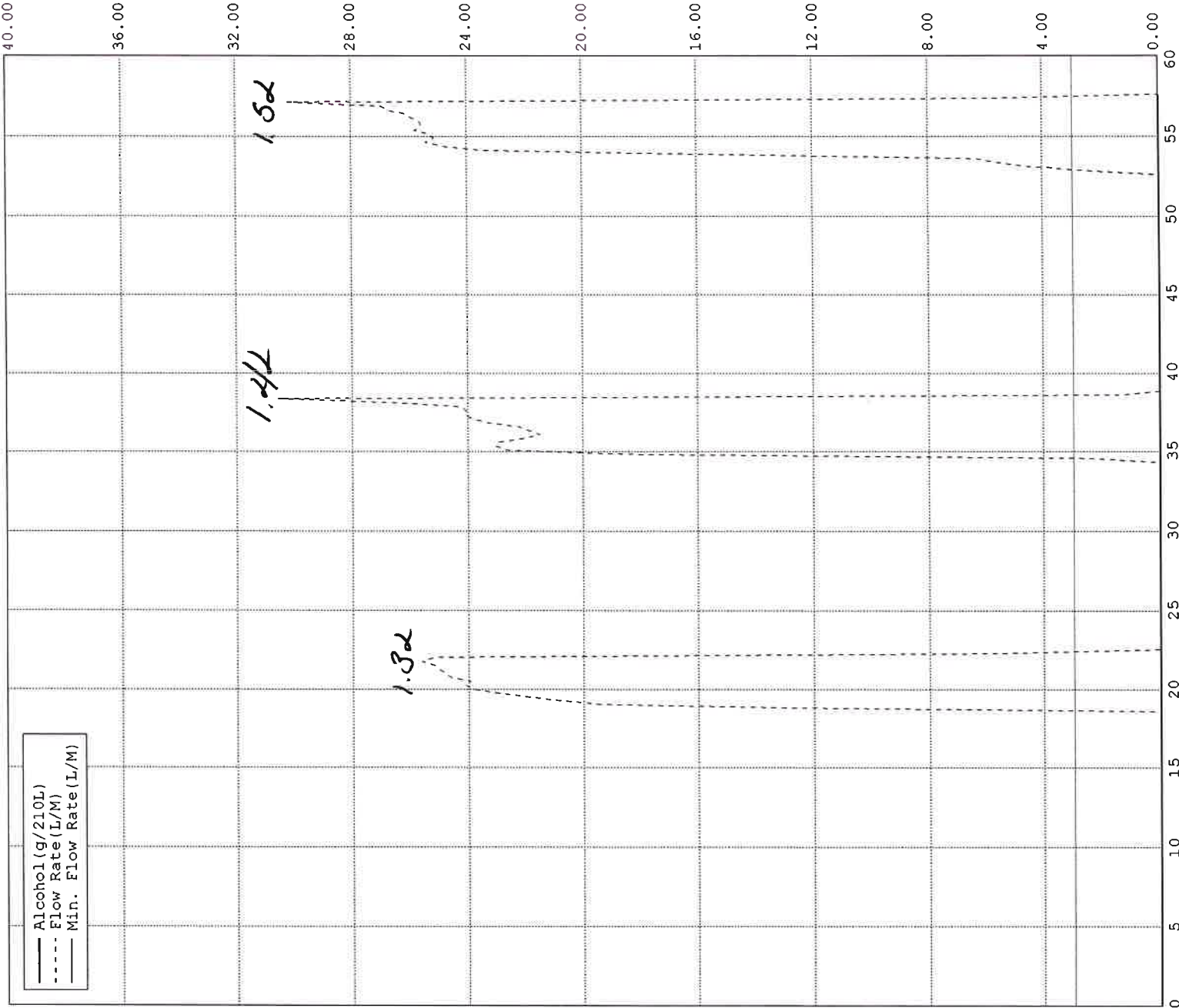
DEPT/AGENCY:
AAA1

CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.67: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:28
BLANK TEST	0.000	09:28
INTERNAL STANDARD	VERIFIED	09:28
EXTERNAL STANDARD	0.078	09:28
BLANK TEST	0.000	09:29
SUBJECT SAMPLE (Vol=1.56L)	0.000	09:30
BLANK TEST	0.000	09:31
EXTERNAL STANDARD	0.079	09:31
BLANK TEST	0.000	09:32



LINEARITY CHECK

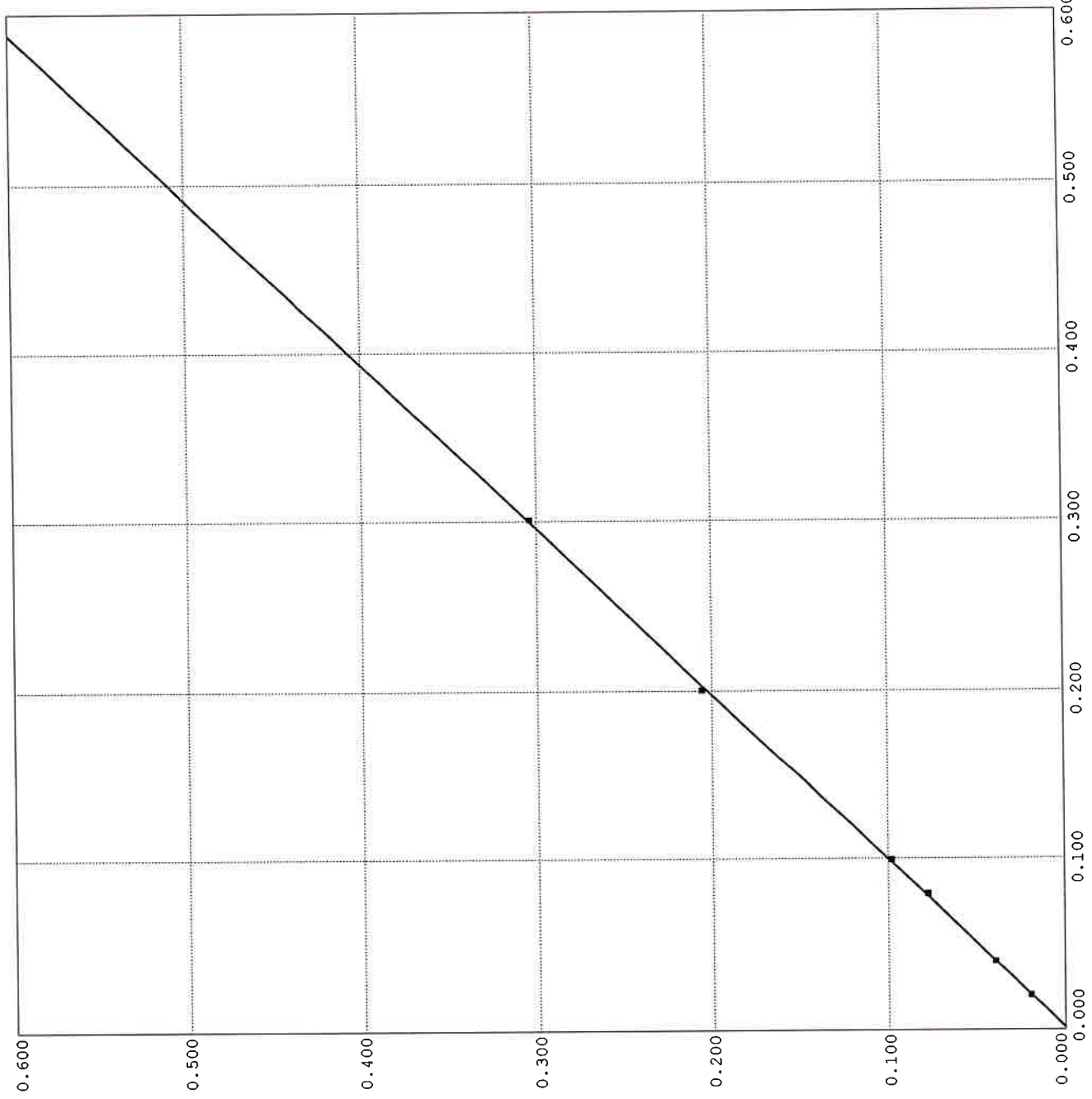
 Alaska Department of Public Safety
 DATAMASTER dmt: 100397

Date: 02/02/2022
 Time: 09:35:02

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0400	0.0000
0.079	0.0784	0.0005
0.099	0.0990	0.0000
0.200	0.2064	0.0005
0.300	0.3046	0.0009

SLOPE = 1.023284
 R² = 0.999776



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100397

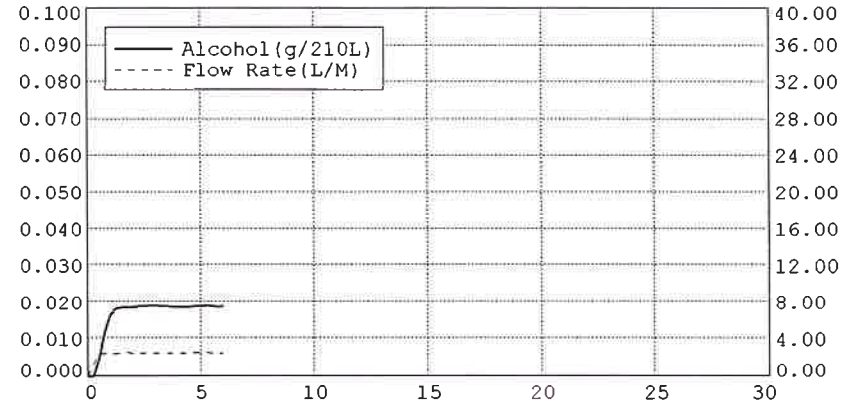
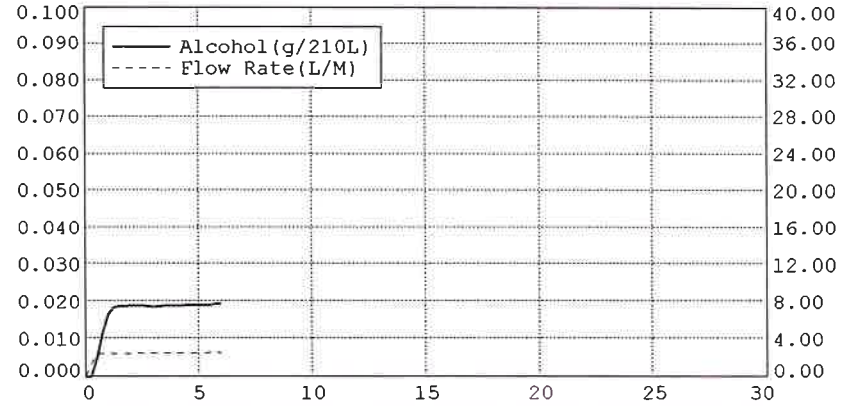
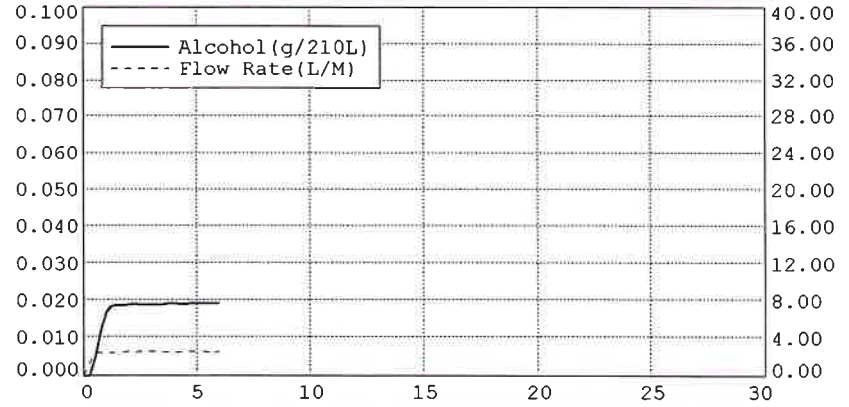
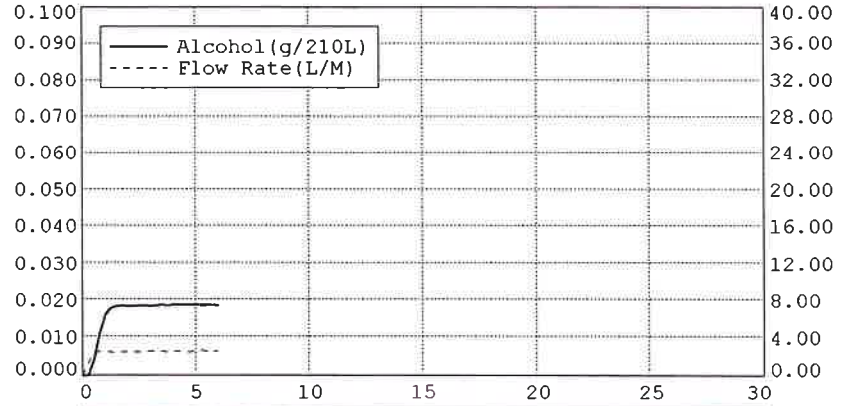
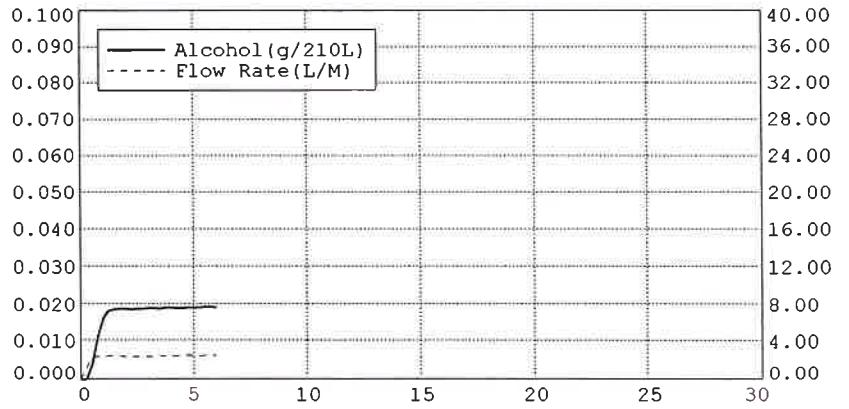
Date: 02/02/2022
Time: 09:35:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.68: 0.020
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 704 psi

BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	10:00
EXTERNAL STANDARD	0.020	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.020	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.020	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.020	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.020	10:04
BLANK TEST	0.000	10:05

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100397

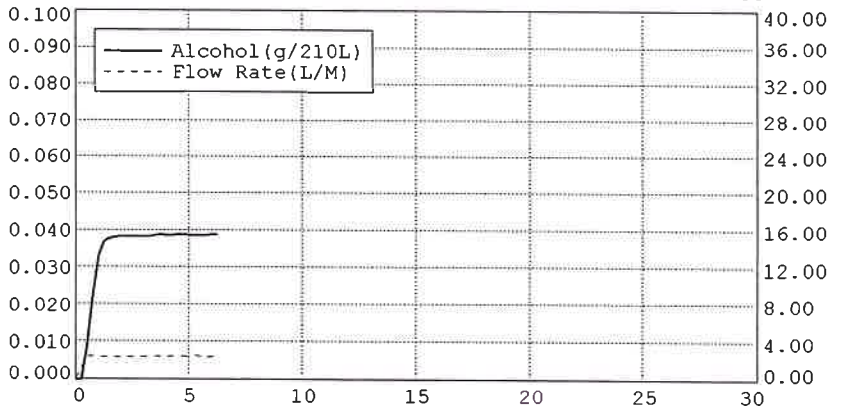
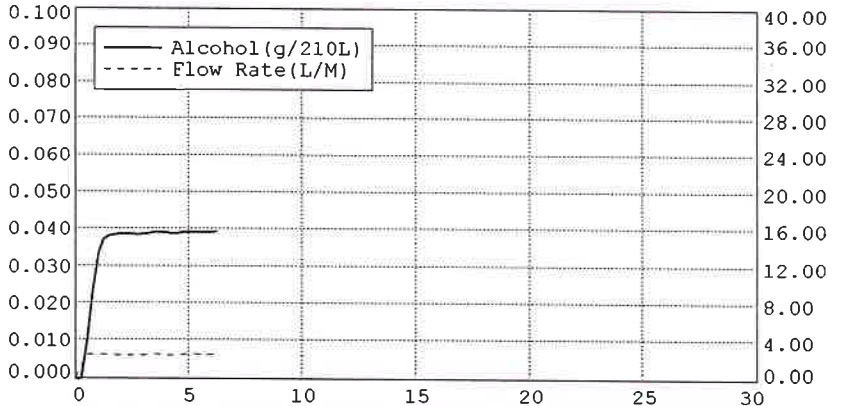
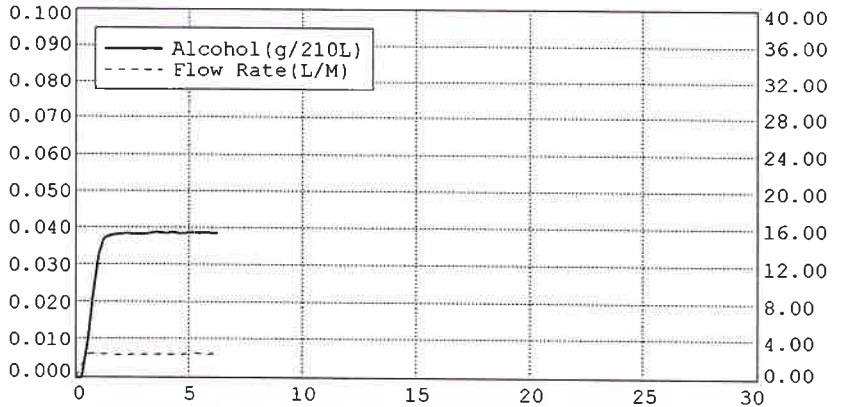
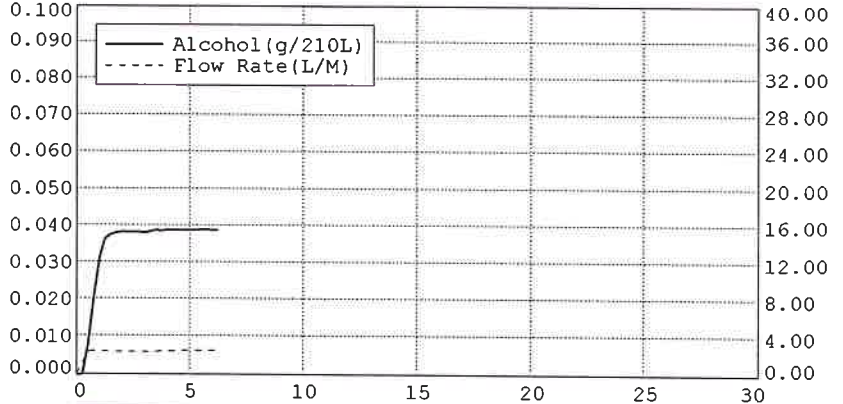
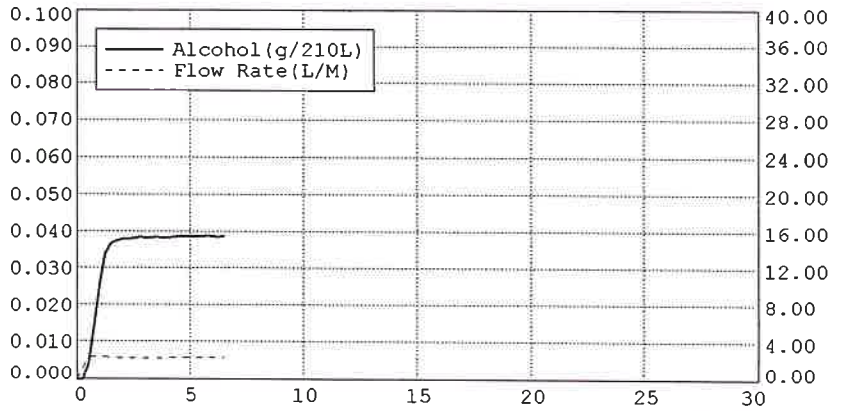
Date: 02/02/2022
Time: 10:06:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.67: 0.040
LOT #: AG111710
EXPIRATION: 04/27/2023
TANK PRESSURE: 447 psi

BLANK TEST	0.000	10:07
INTERNAL STANDARD	VERIFIED	10:07
EXTERNAL STANDARD	0.040	10:08
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.040	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.040	10:10
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.040	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.040	10:12
BLANK TEST	0.000	10:13

Average = 0.0400
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100397

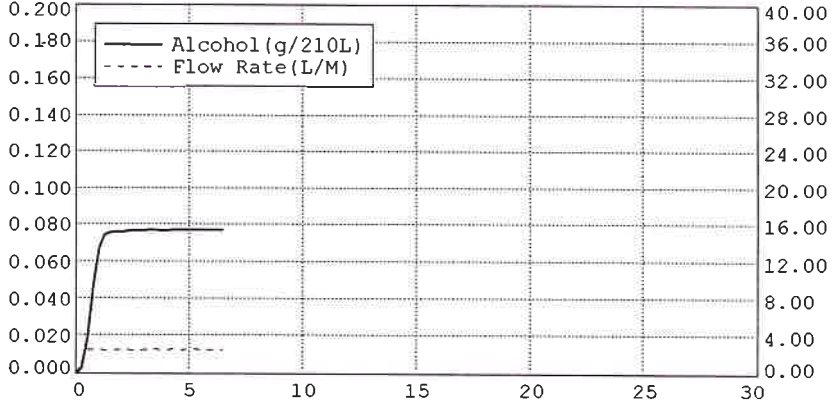
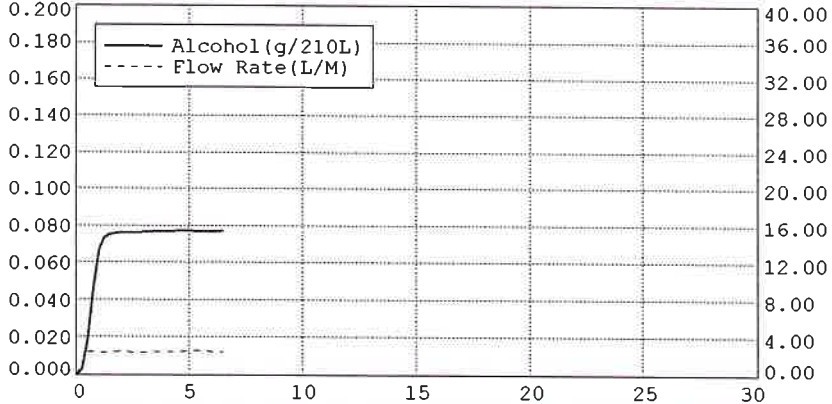
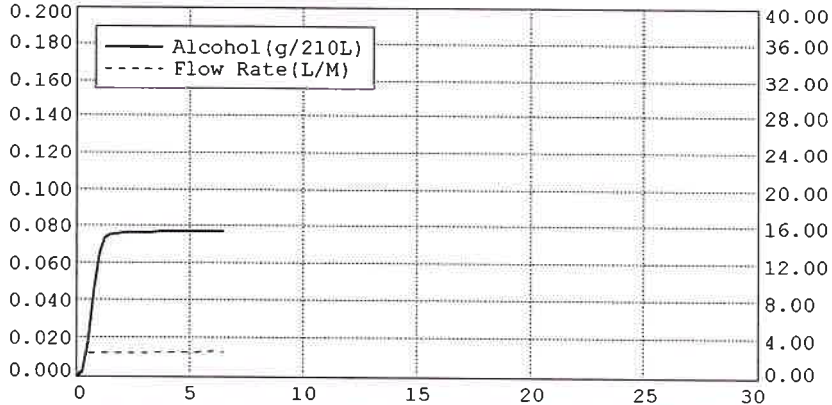
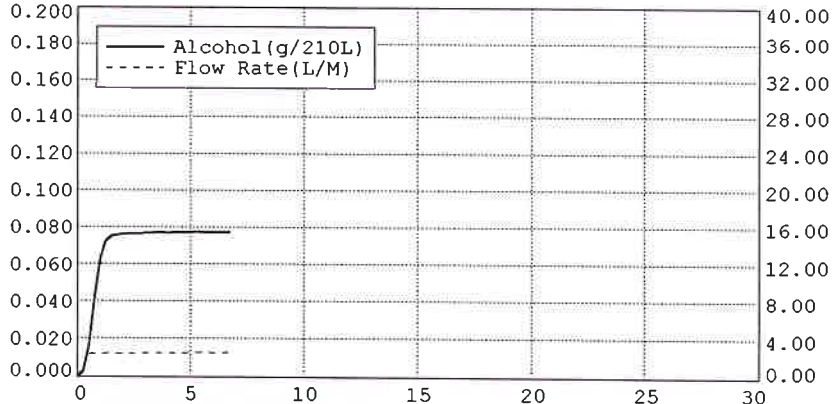
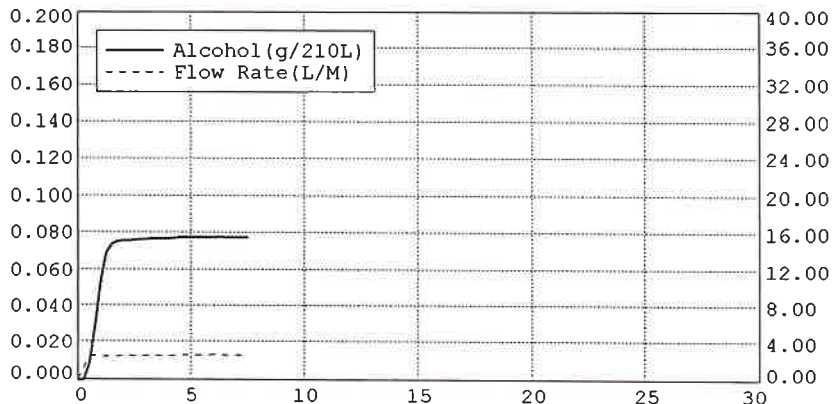
Date: 02/02/2022
Time: 10:14:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.67: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 819 psi

BLANK TEST	0.000	10:15
INTERNAL STANDARD	VERIFIED	10:15
EXTERNAL STANDARD	0.079	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.079	10:17
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.078	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.078	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.078	10:20
BLANK TEST	0.000	10:21

Average = 0.0784
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

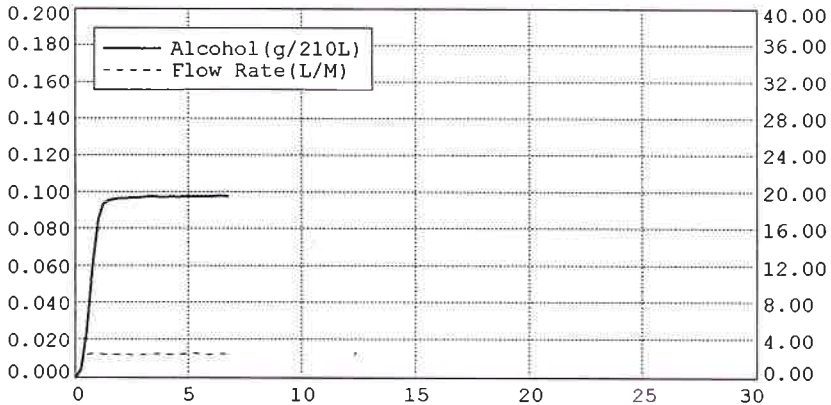
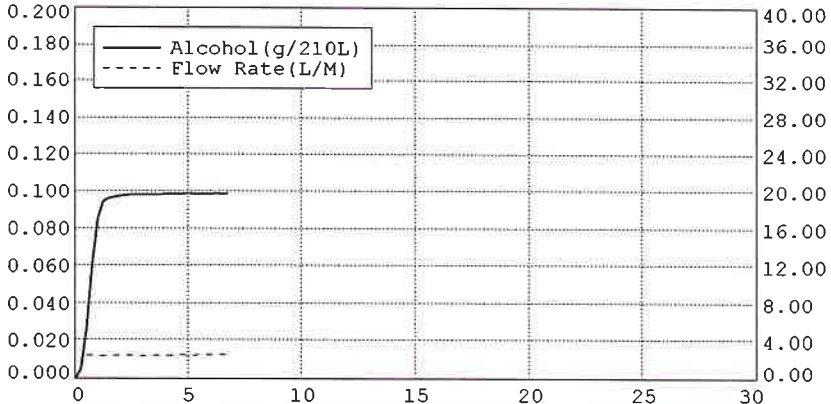
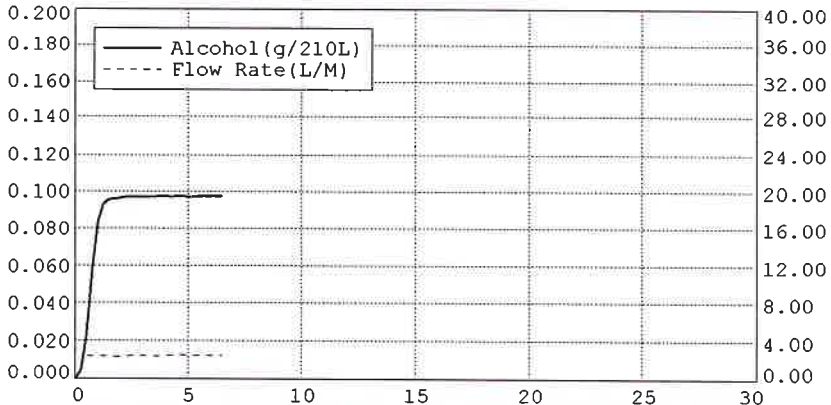
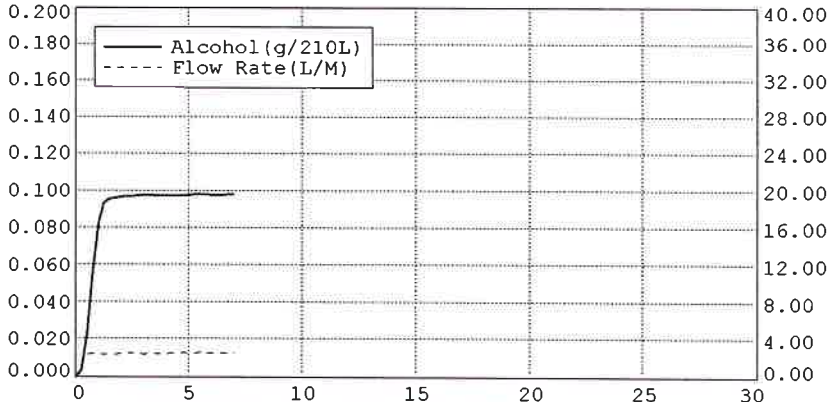
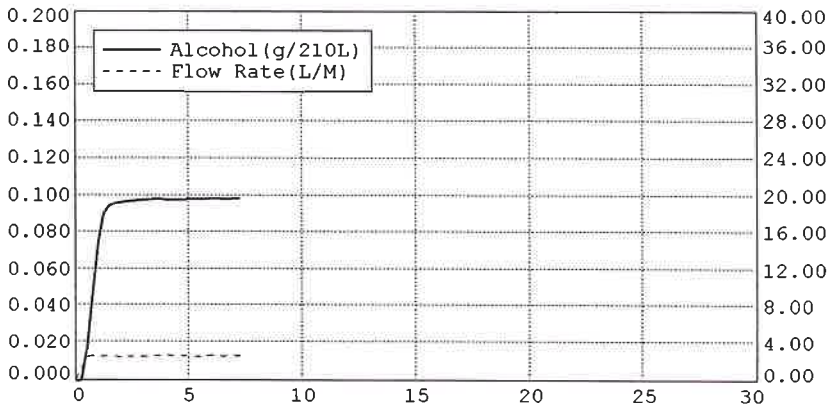
Date: 02/02/2022
 Time: 10:21:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.66: 0.099
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 711 psi

BLANK TEST	0.000	10:23
INTERNAL STANDARD	VERIFIED	10:23
EXTERNAL STANDARD	0.099	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.099	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.099	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.099	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.099	10:27
BLANK TEST	0.000	10:28

Average = 0.0990
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

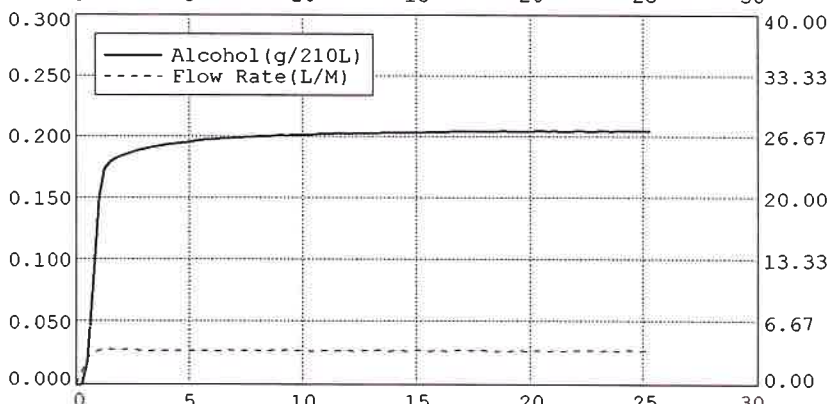
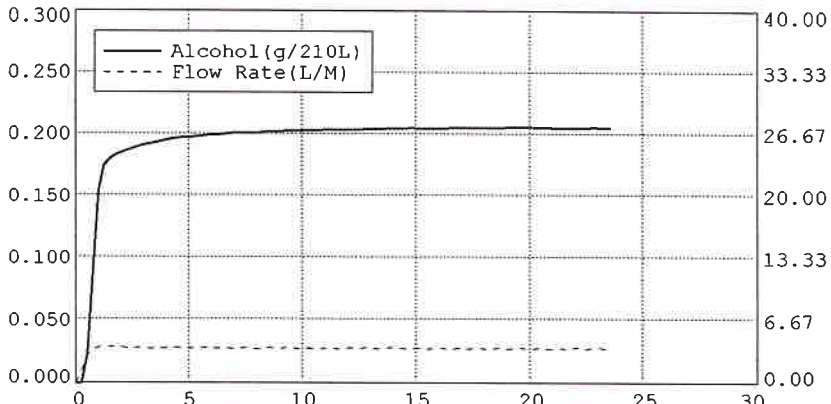
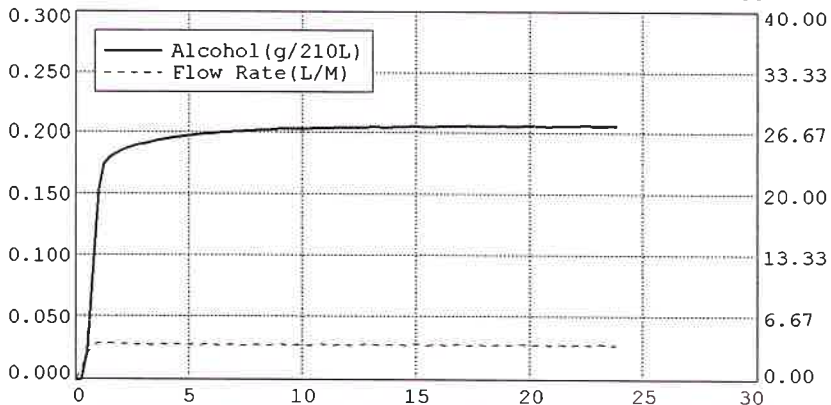
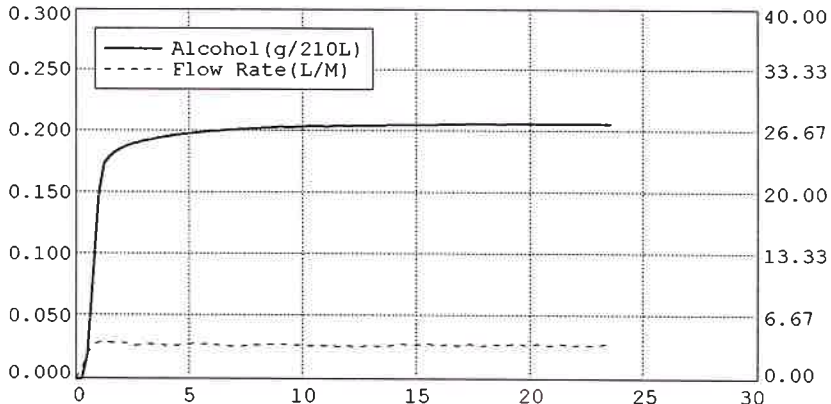
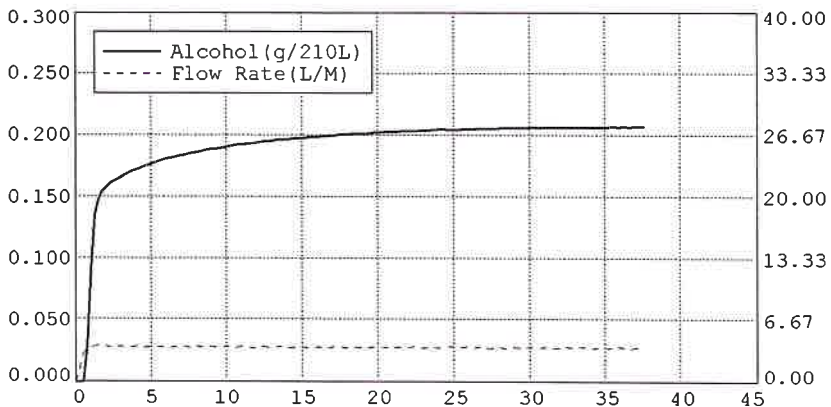
Date: 02/02/2022
 Time: 11:01:37

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:02
EXTERNAL STANDARD	0.207	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.207	11:05
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.206	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.206	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.206	11:09
BLANK TEST	0.000	11:10

Average = 0.2064
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

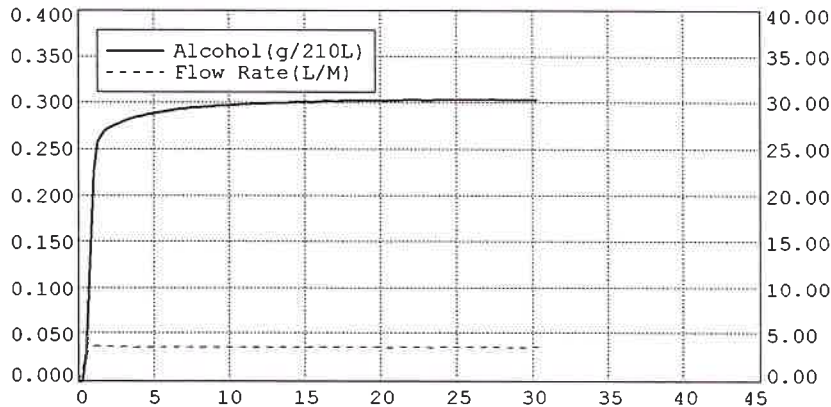
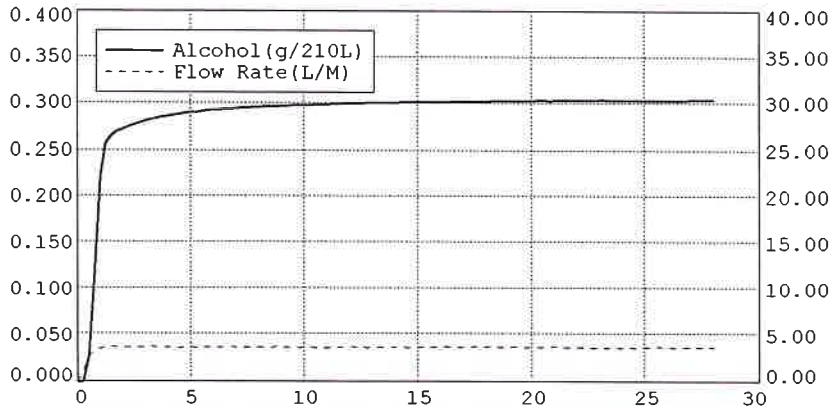
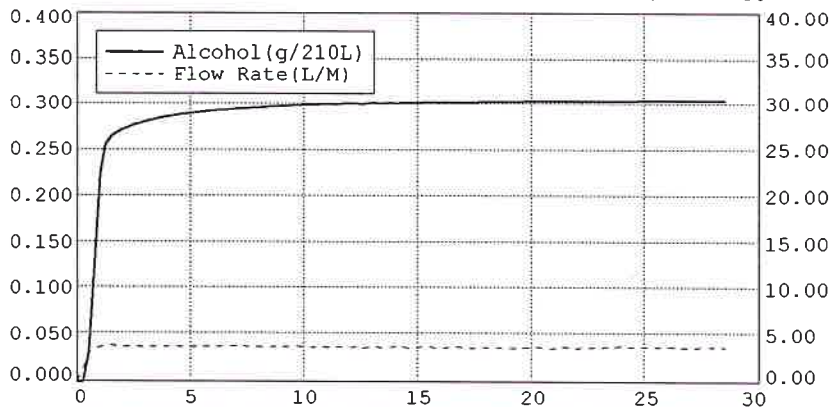
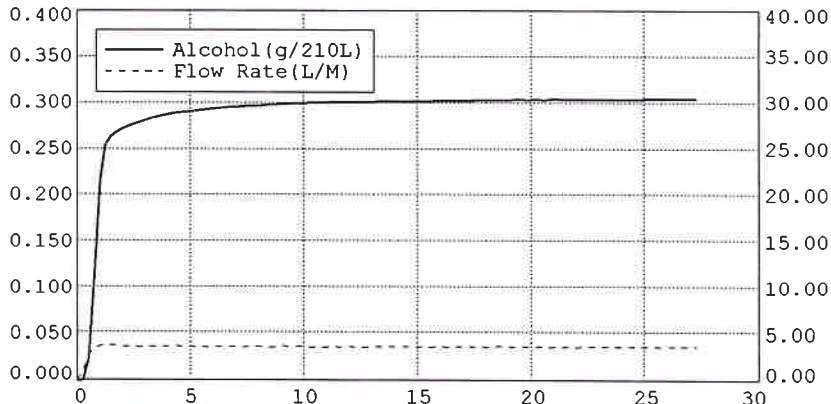
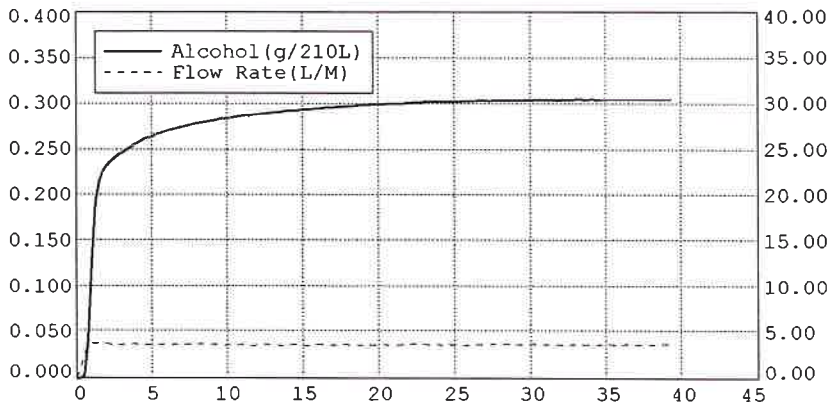
Date: 02/02/2022
 Time: 11:12:23

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:13
INTERNAL STANDARD	VERIFIED	11:13
EXTERNAL STANDARD	0.306	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.305	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.304	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.304	11:19
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.304	11:20
BLANK TEST	0.000	11:21

Average = 0.3046
 Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100397

Date: 02/02/2022

Time: 12:27:43

SUBJECT NAME:

TEST TEST

LICENSE #: INCOMPLETE

OPERATOR NAME:

COLLEEN S OBRyant

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 22-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.65: 0.079

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

PASSED

12:29

0.000

12:29

INTERNAL STANDARD

VERIFIED

12:29

EXTERNAL STANDARD

0.078

12:29

0.000

12:30

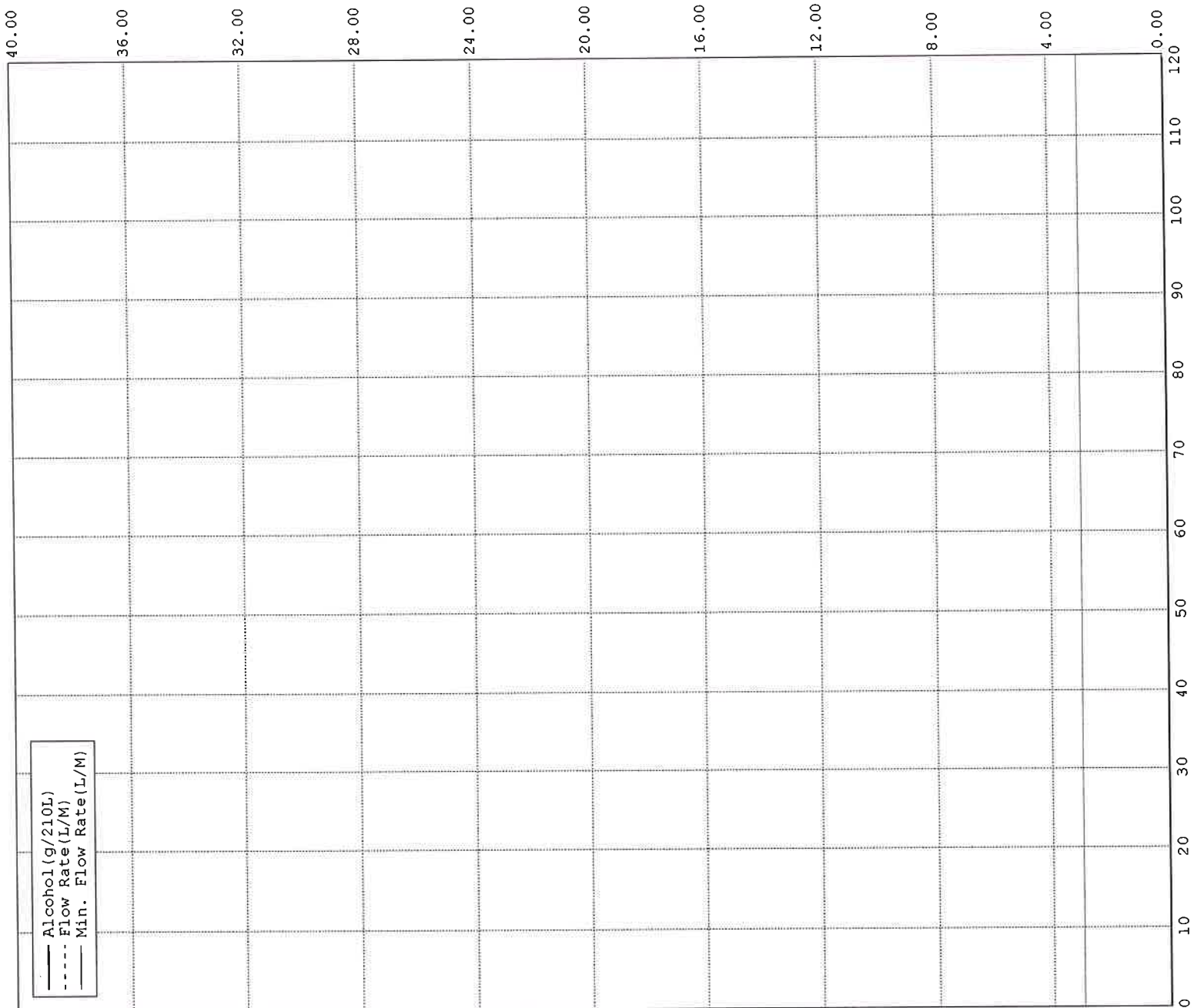
12:32

SUBJECT SAMPLE

INCOMPLETE

12:32

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 02/02/2022
Time: 13:22:13

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

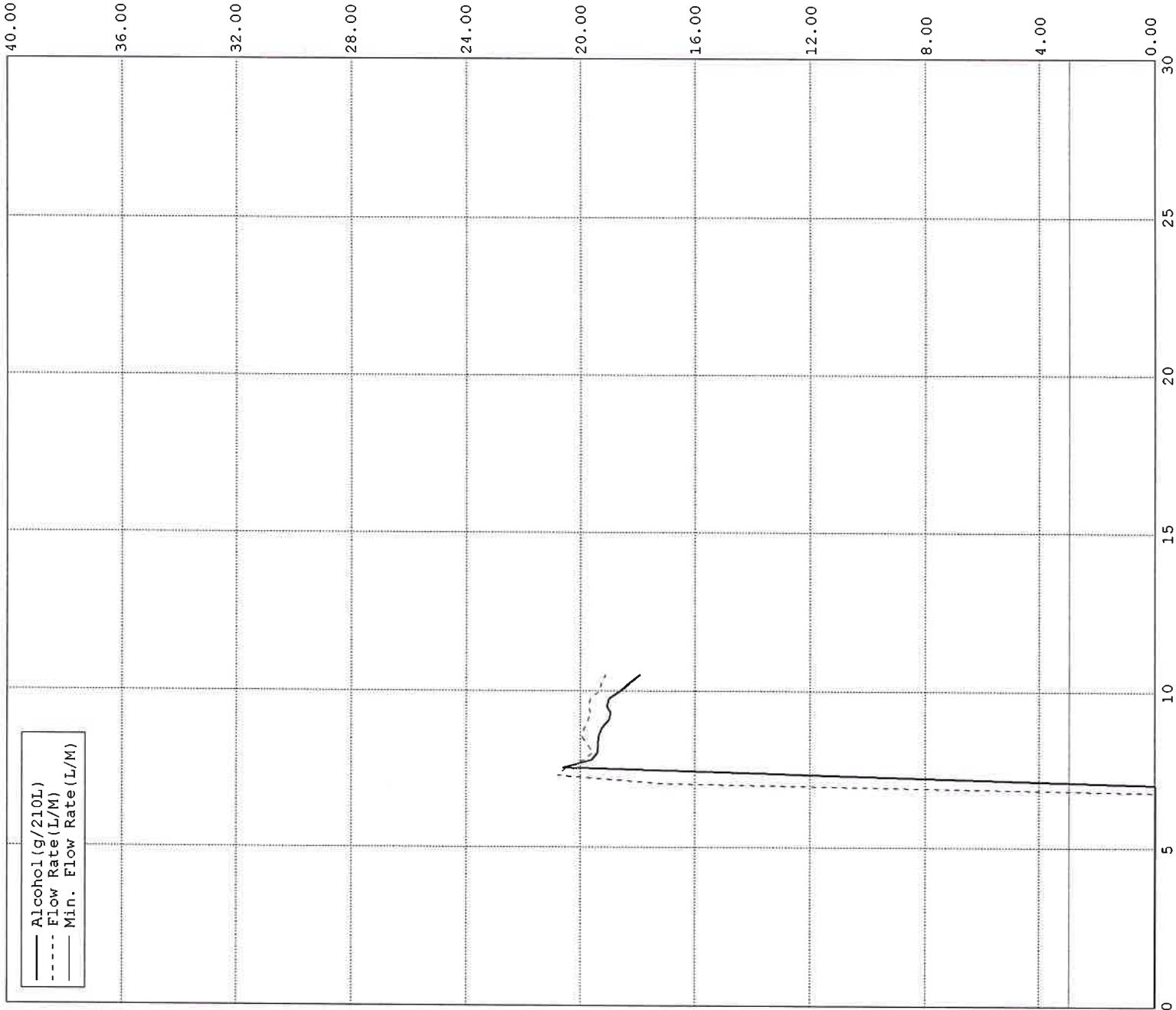
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:23
INTERNAL STANDARD VERIFIED 13:24
EXTERNAL STANDARD 0.079 13:24
BLANK TEST 0.000 13:25
SUBJECT SAMPLE INVALID 13:25

CBS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 02/02/2022
Time: 13:15:51

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

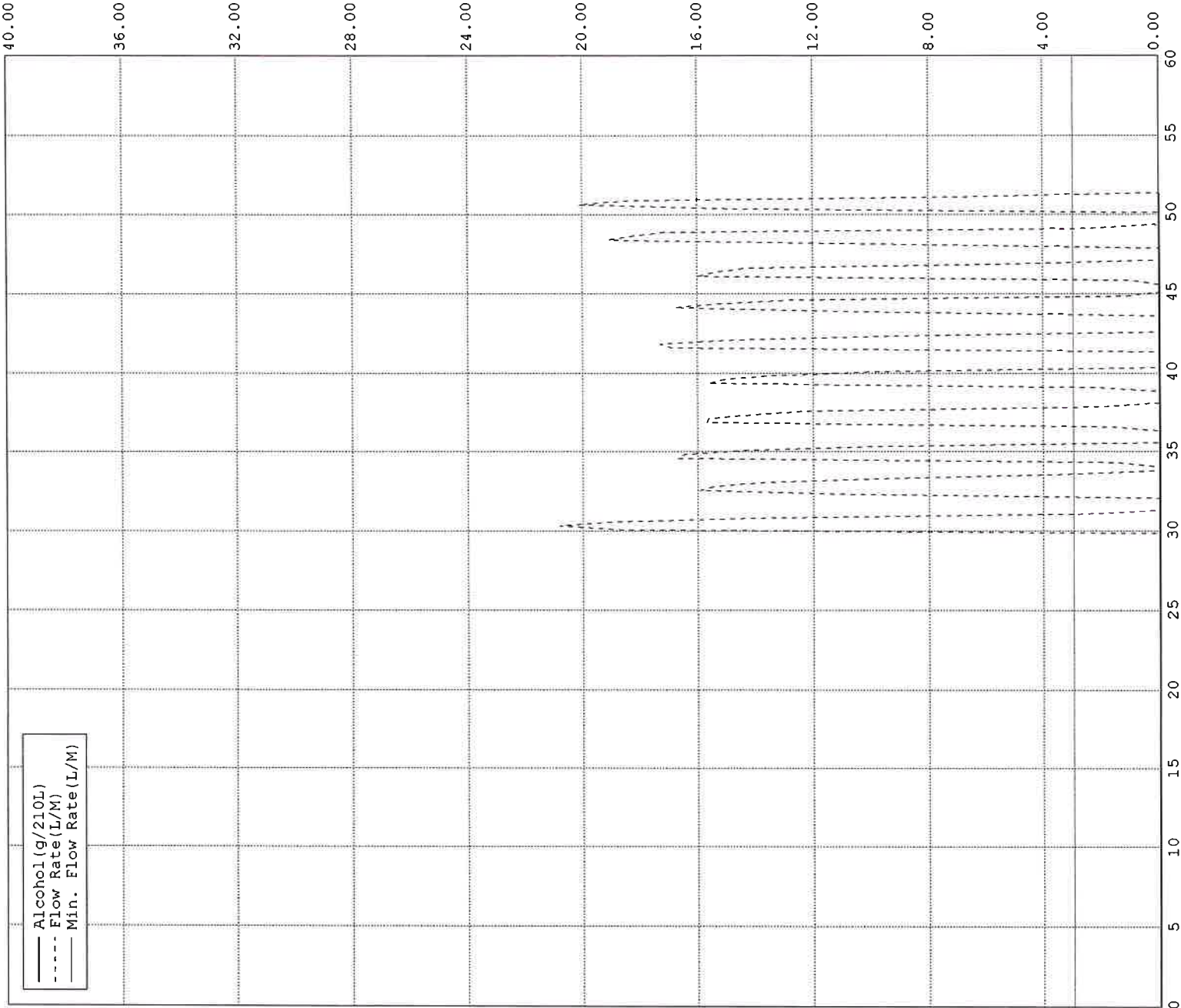
DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:16
INTERNAL STANDARD VERIFIED 13:17
EXTERNAL STANDARD 0.078 13:17
BLANK TEST 0.000 13:18
SUBJECT SAMPLE XXX 13:19

Maximum Attempts Exceeded

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 02/02/2022
Time: 13:07:59

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

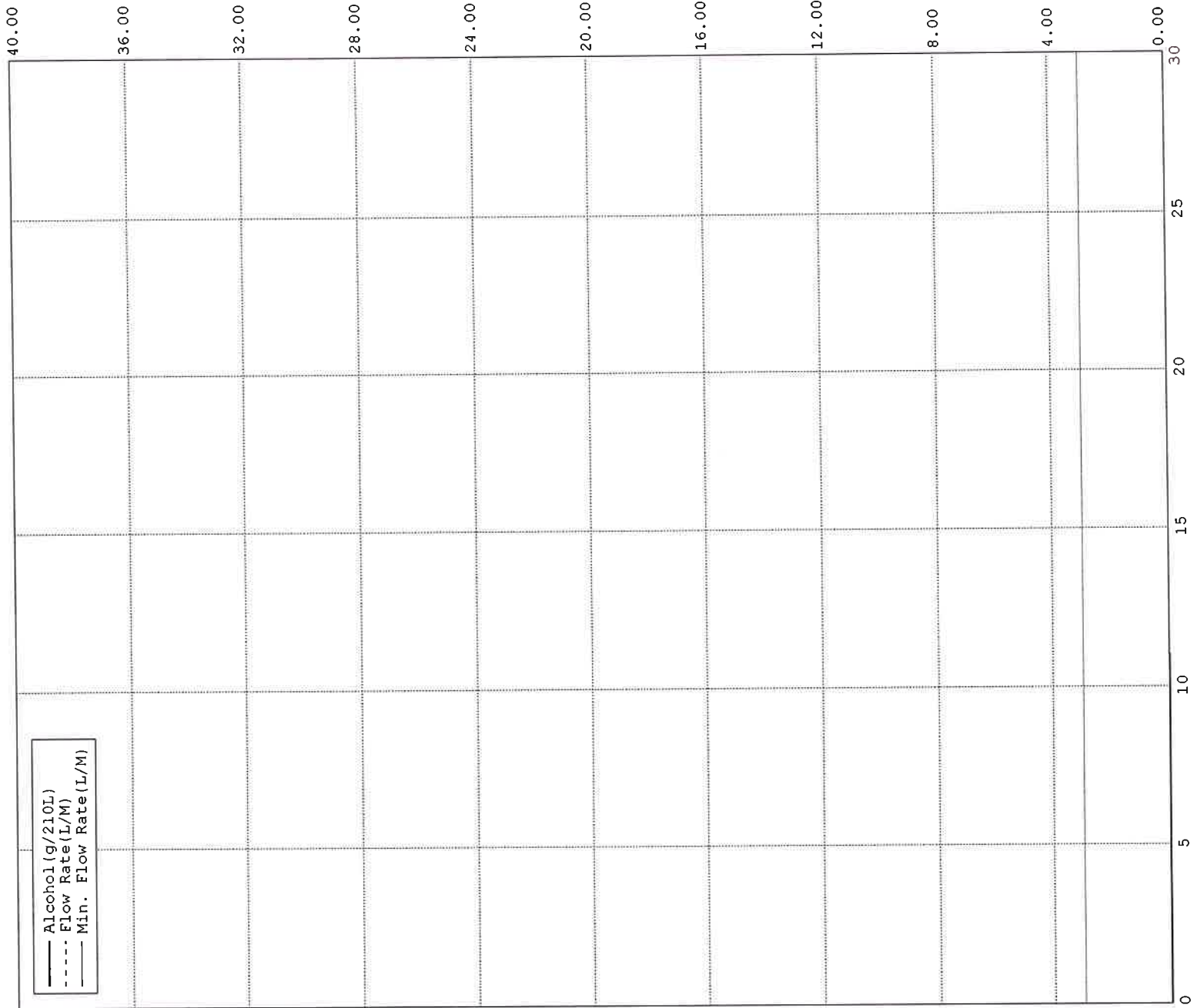
DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:10
INTERNAL STANDARD 0.000 13:11
EXTERNAL STANDARD 0.078 13:11
BLANK TEST 0.000 13:12

RFI DETECTED

CUB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 02/02/2022
Time: 11:58:44

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

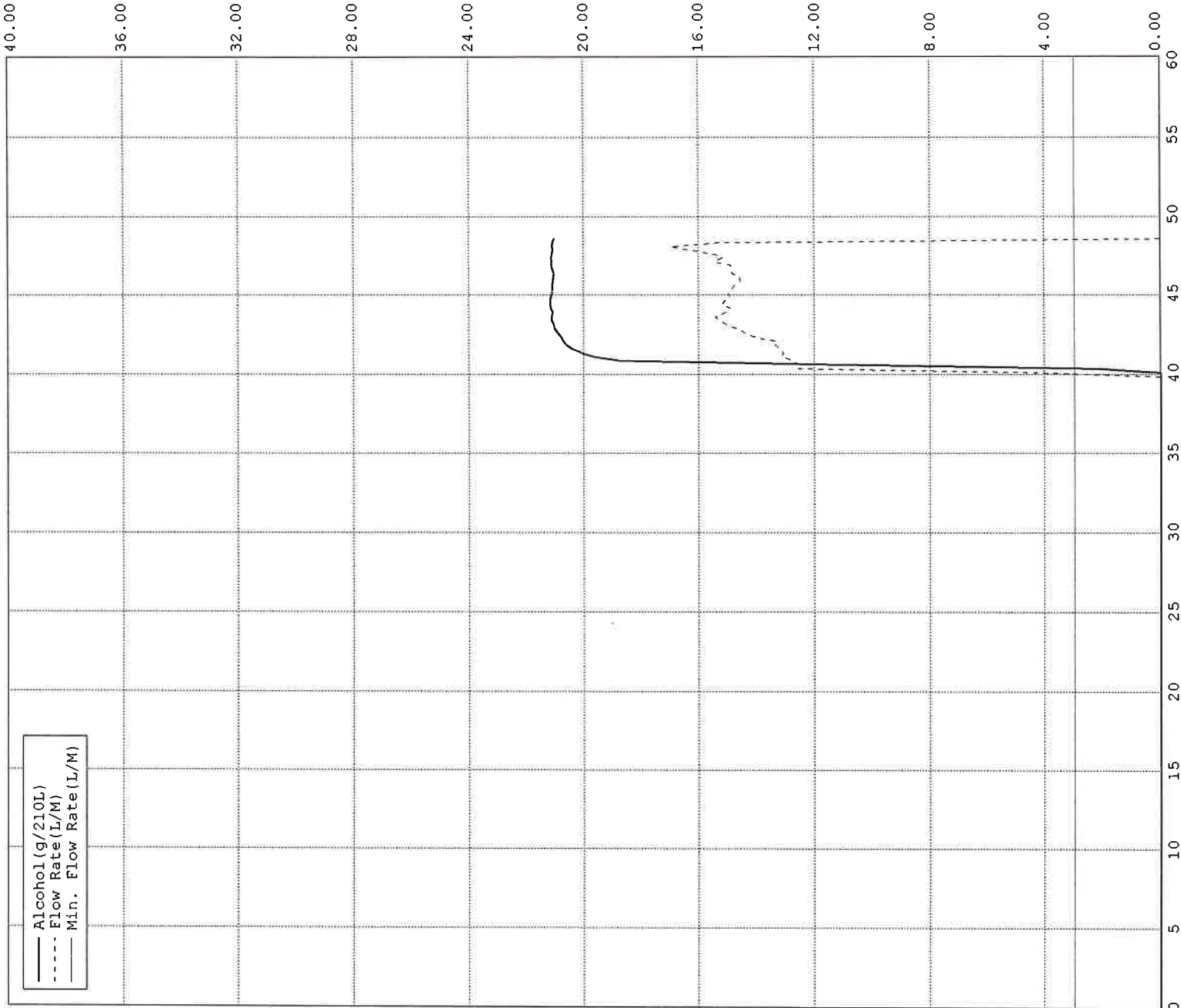
DIAGNOSTIC CHECK	PASSED	12:01
BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:01
Xq = 0.094 (0.19%)		
EXTERNAL STANDARD	0.078	12:01
X[1] = 0.0779 (-0.0026) (0.0012)		
BLANK TEST	0.000	12:02
SUBJECT SAMPLE	XXX	12:03
X[1] = 0.1055 (-0.0164) (0.0007)		

Interference Detected

Filter 2 Avg = -0.0025

Filter 3 Avg = 0.0014

CSB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 02/02/2022
Time: 12:06:24

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

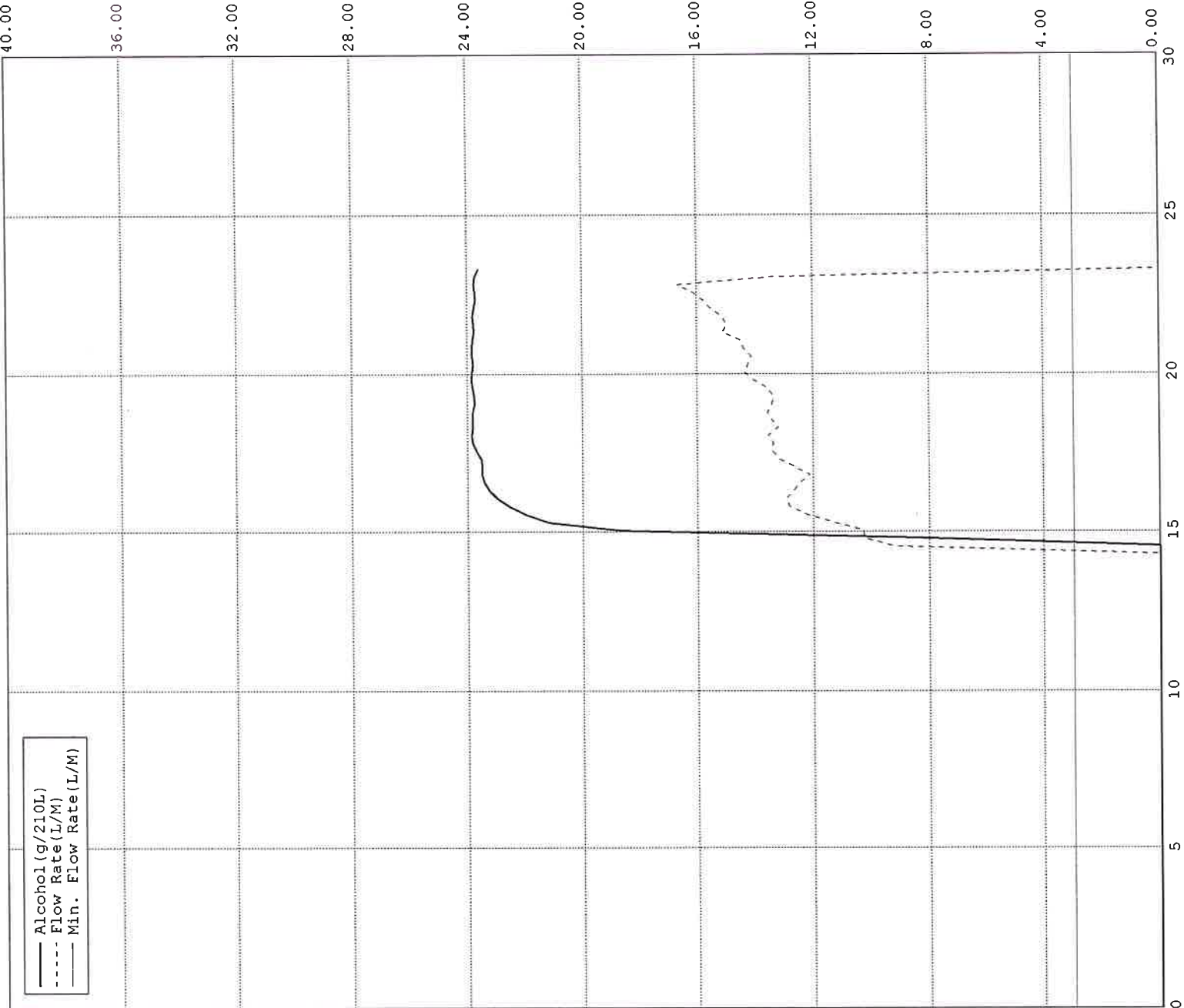
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:07
BLANK TEST	0.000	12:07
INTERNAL STANDARD	VERIFIED	12:07
$X_q = 0.094$ (0.56%)	0.078	12:08
EXTERNAL STANDARD	$X[1] = 0.0781$ (-0.0026)	(0.0013)
BLANK TEST	0.000	12:09
SUBJECT SAMPLE	XXX	12:09
$X[1] = 0.1178$ (-0.0340)	(0.0009)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 02/02/2022
Time: 12:13:26

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

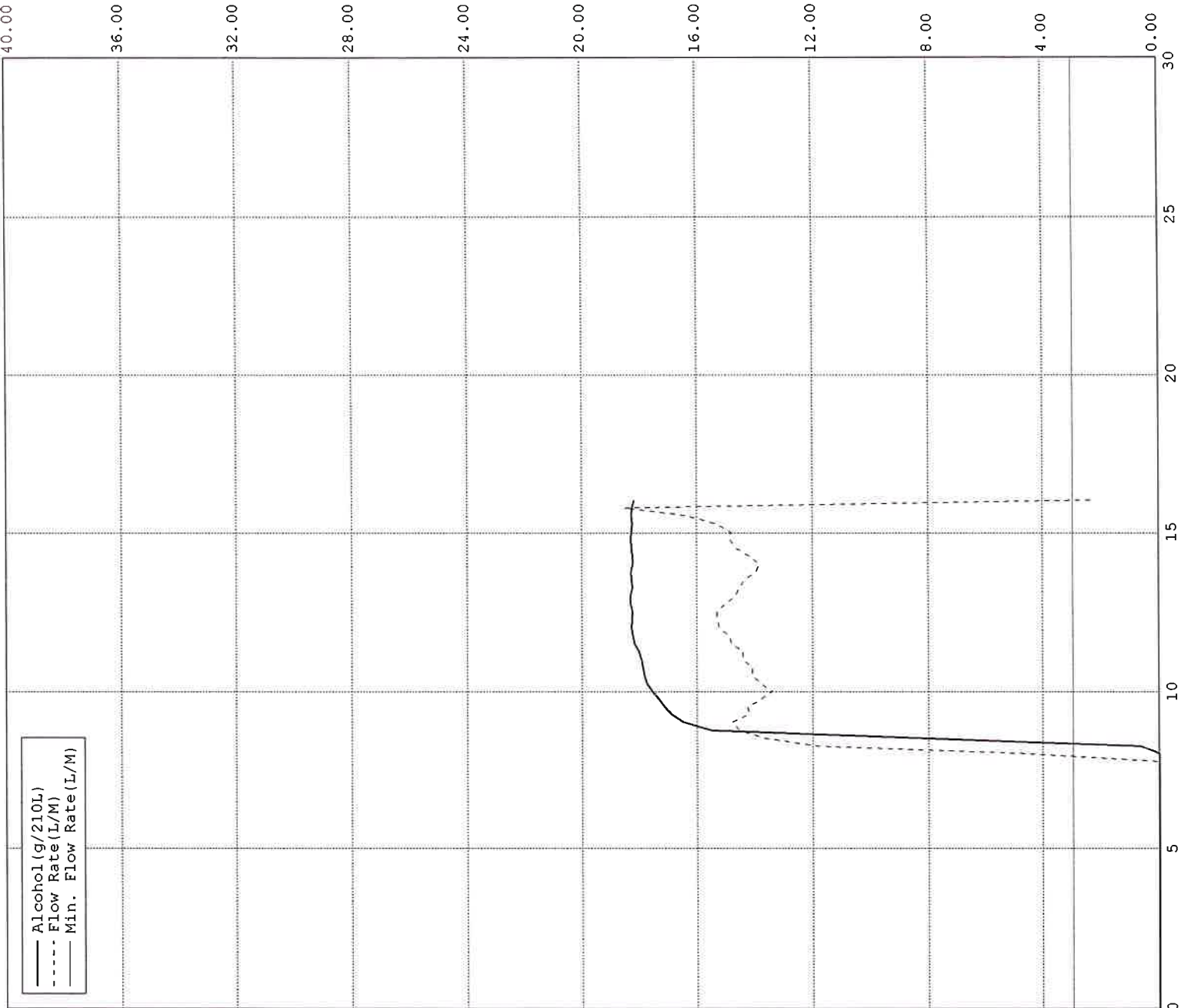
DEPT/AGENCY:
AAA1

CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:14
BLANK TEST	0.000	12:14
INTERNAL STANDARD	VERIFIED	12:14
$X_q = 0.094$ (0.37%)	0.078	12:15
EXTERNAL STANDARD	$X[1] = 0.0781$ (-0.0027) (0.0019)	12:15
BLANK TEST	0.000	12:16
SUBJECT SAMPLE (Vol=1.91L)	0.091	12:16
$X[1] = 0.0917$ (-0.0010) (-0.0002)	0.000	12:17
BLANK TEST	0.078	12:17
EXTERNAL STANDARD	$X[1] = 0.0777$ (-0.0020) (0.0010)	12:18
BLANK TEST	0.000	12:18



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 02/02/2022
Time: 13:42:00

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	13:43
BLANK TEST	0.000	13:43
INTERNAL STANDARD	VERIFIED	13:43
EXTERNAL STANDARD	0.078	13:43
BLANK TEST	0.000	13:44
SUBJECT SAMPLE (Vol=1.94L)	0.000	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.079	13:46
BLANK TEST	0.000	13:47

CS

