

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMCEF 2020 R0
Status: Active

Instrument S/N 100420 Analyst Colleen O'Bryen Start Date 6/30/21

- Diagnostic Test (attached) Internal Standard value $\leq 3.00\%$

Voltage Checks

- Adjust voltages, if needed
- i. Lamp (2.6V Maximum)
 - ii. Bias
 - iii. Cooler (2.0V Maximum)
 - iv. Chopper Frequency
 - v. Detector Voltage (-0.100V to 0.100V)

- Set RFI
 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)
 Volume Test - Minimum 1.5 L (1.3L to 1.7L)

Linearity Test (attached)

Levels Used

- i. 0.020g/210L Mnf Argas Lot AG928203 Exp 10/9/21
- ii. 0.040g/210L Mnf Argas Lot AG111710 Exp 4/27/23
- iii. 0.080g/210L Mnf Argas Lot AG018102 Exp 6/29/22
- iv. 0.100g/210L Mnf Argas Lot AG108404 Exp 3/25/23
- v. 0.200g/210L Mnf Guth Lot 19200 Exp 8/6/21
Simulator S/N DR6267 Date Calibrated 11/17/20
- vi. 0.300g/210L Mnf Guth Lot 19330 Exp 11/13/21
Simulator S/N DR4177 Date Calibrated 11/17/20

Functional Tests (attached)

- Incomplete Invalid
 Interference

- i. Acetone - Mnf Guth Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N DR4178 Date Calibrated 11/18/2020
- ii. Isopropanol - Mnf Guth Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N DR4176 Date Calibrated 11/18/2020
- iii. Negative Control - Mnf Guth Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N DR4163 Date Calibrated 11/17/2020

- Exceeded Attempts RFI

- Verify stylus is calibrated
- Reset Options
- Clear Memory
- Remove tank prior to shut down
- Verification of Calibration
- Non-Drinking Subject Test (attached)
- Upload
- Add Linearity Data to Spreadsheet

End Date 7/1/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 06/30/2021
Time: 09:59:57

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.4°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.89 V PASSED
(1.10 V - 2.58 V)
Cooler Voltage = 1.71 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 80 V PASSED
(47 V - 111 V)
Chopper Freq = 532 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 5.005 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 = 0.079 0.77% PASSED
(0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100420

Date: 06/30/2021
Time: 10:07 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 47.5°C

Current Barometer 29.9 in
Volume (Ltr) 1.60

Settings
Lamp: 1.92 V
Bias: 80 V
Cooler: 1.73 V
Chopper: 534 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.031 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 05/18/2011
Time: 13:54:20

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260 COB 2021.07.08
EXPIRATION: 10/25/~~2010~~ 2012

Ca = 0.1000
CAL = 0.987303 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0034 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0794 0.0500 <= Xq < 0.2000
a21 = 1.113495 1.050 <= a21 < 1.300
a31 = 0.362455 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 06/30/2021
Time: 10:09:05

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
AAA1

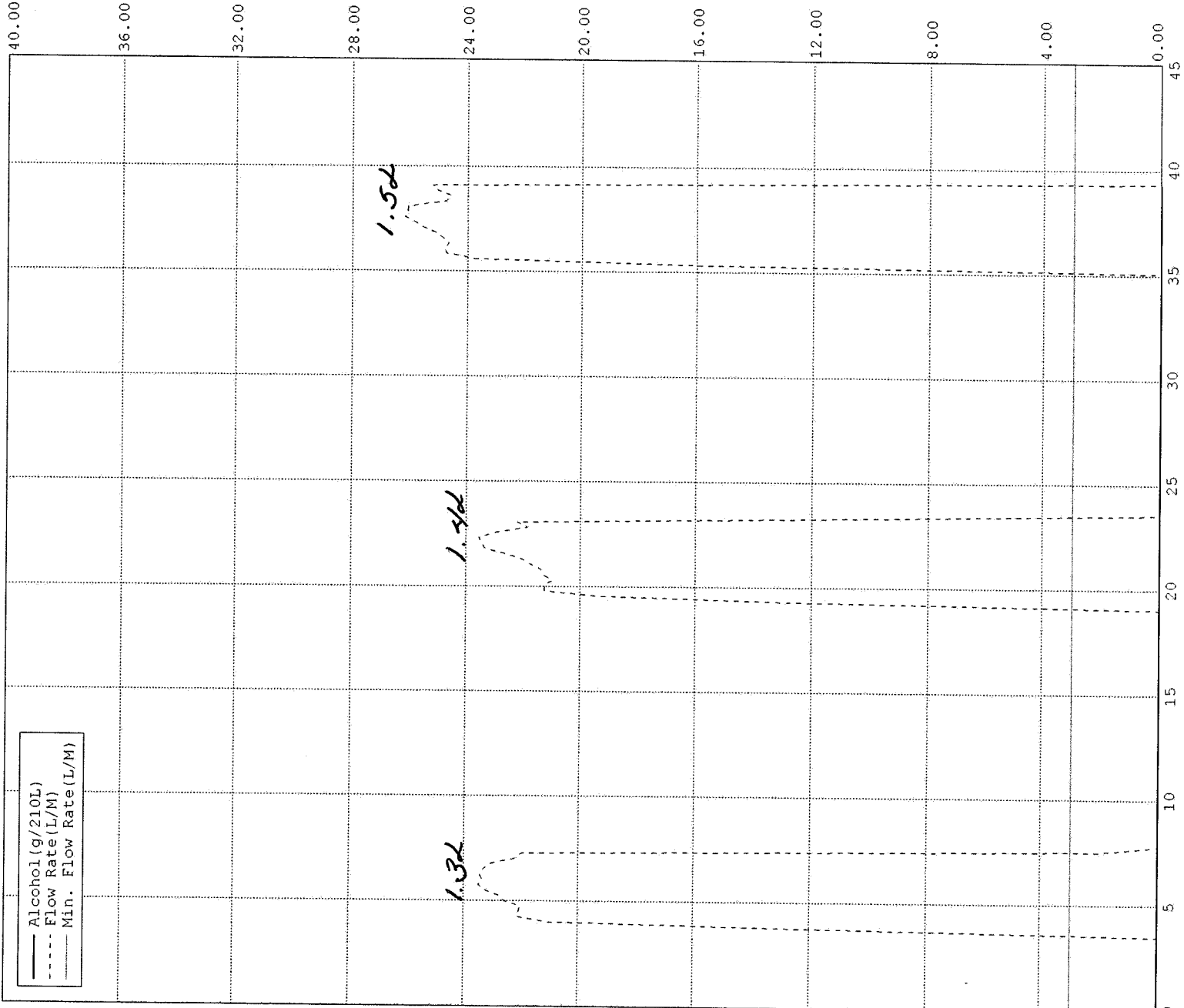
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.87: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	10:11
BLANK TEST	0.000	10:11
INTERNAL STANDARD	VERIFIED	10:11
EXTERNAL STANDARD	0.082	10:11
BLANK TEST	0.000	10:12
SUBJECT SAMPLE (Vol=1.64L)	0.000	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.079	10:14
BLANK TEST	0.000	10:15

CS



LINEARITY CHECK

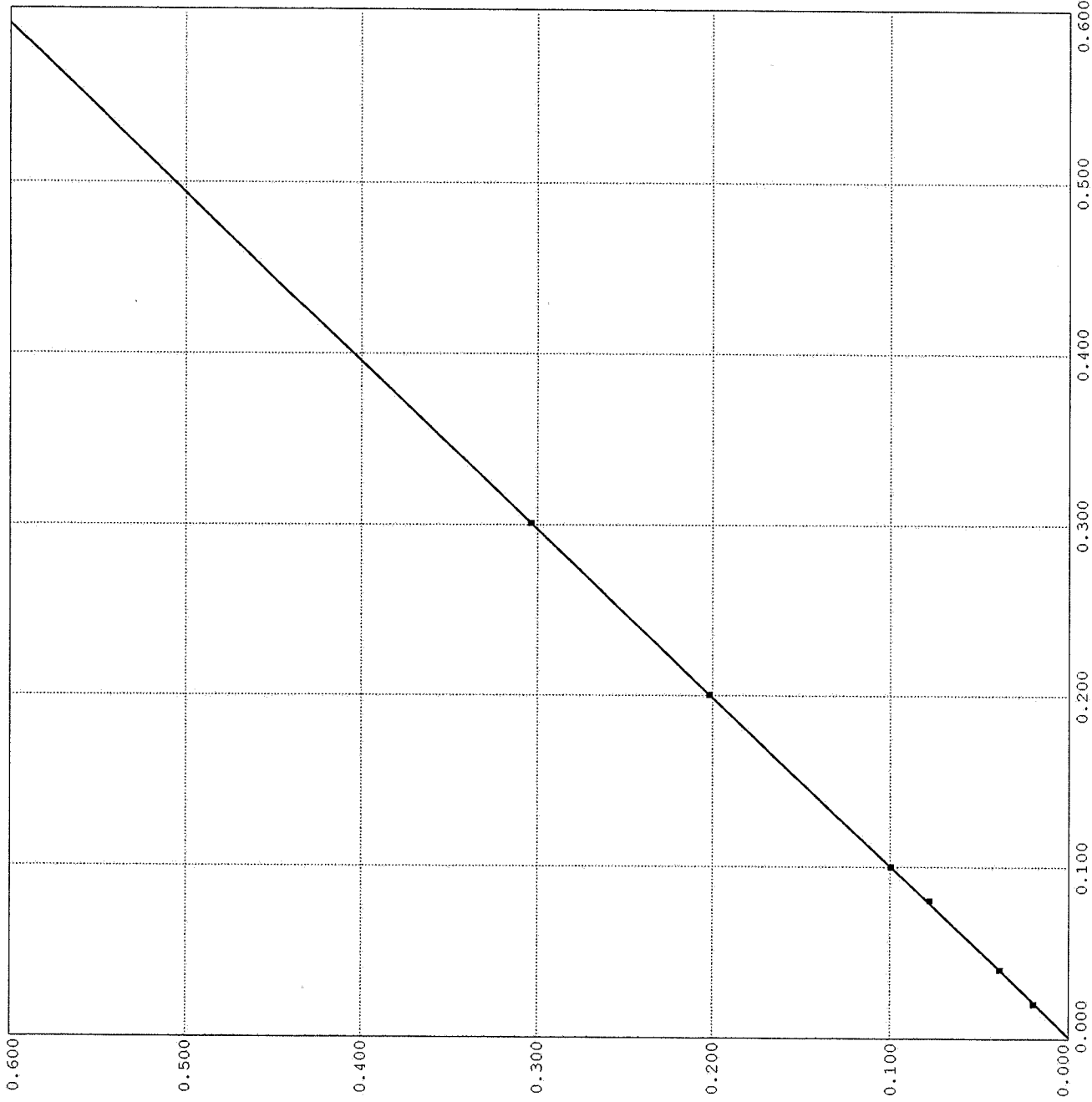
Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 06/30/2021
 Time: 10:25:14

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0204	0.0005
0.040	0.0398	0.0004
0.080	0.0790	0.0007
0.100	0.1006	0.0009
0.200	0.2026	0.0005
0.300	0.3044	0.0005

SLOPE = 1.017176
 R² = 0.999947



CR

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

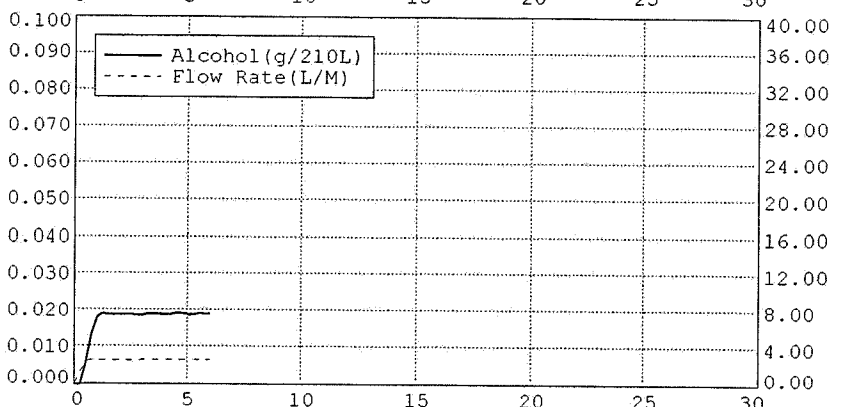
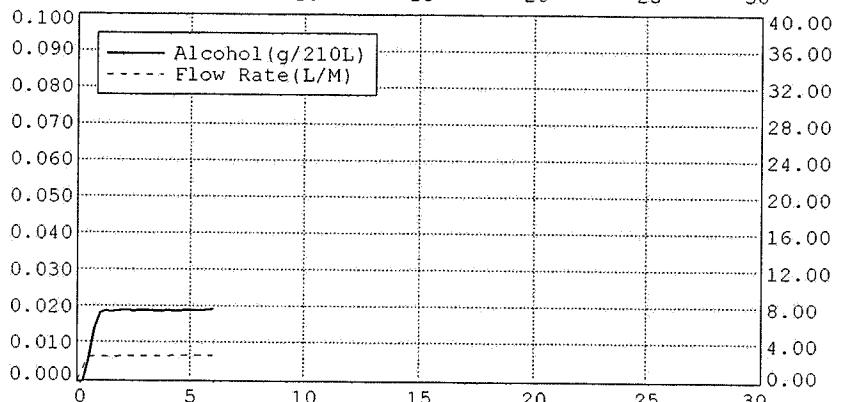
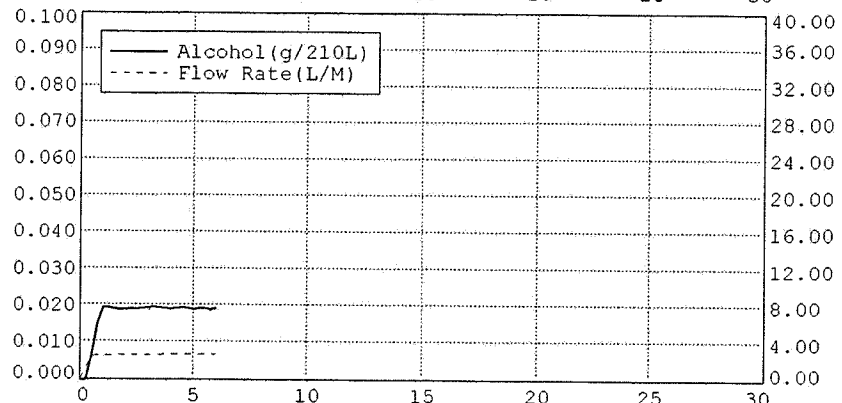
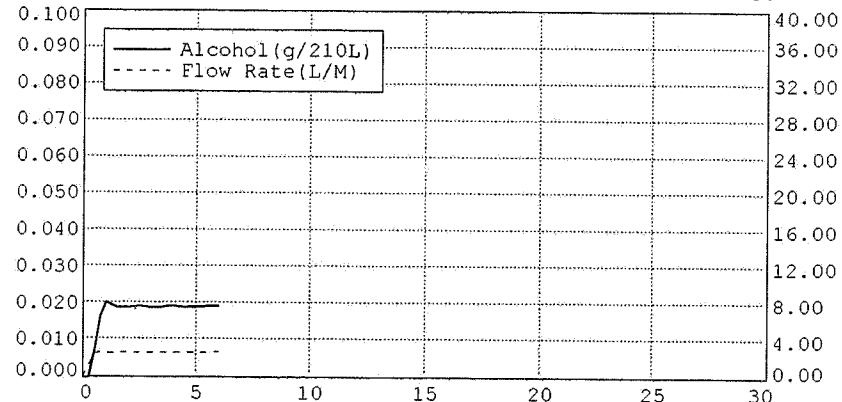
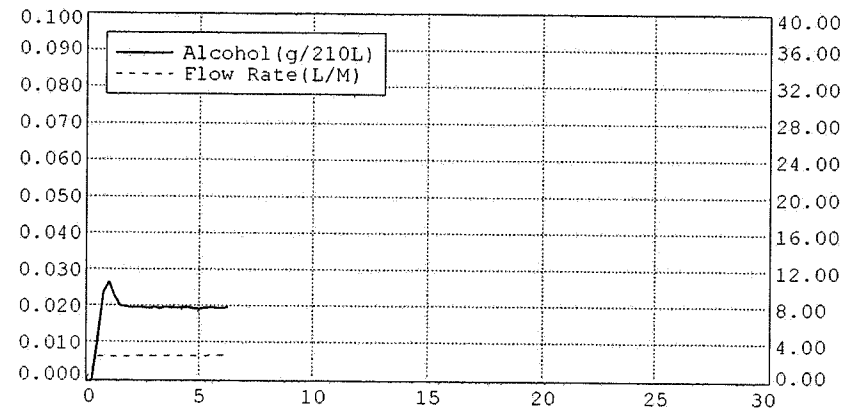
Date: 06/30/2021
 Time: 10:25:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.87: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 326 psi

BLANK TEST	0.000	10:26
INTERNAL STANDARD	VERIFIED	10:26
EXTERNAL STANDARD	0.021	10:27
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.020	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.021	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.020	10:30
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.020	10:32
BLANK TEST	0.000	10:33

Average = 0.0204
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

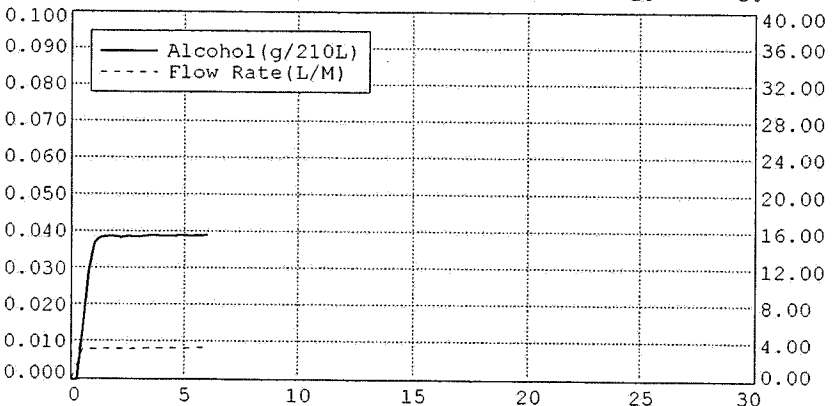
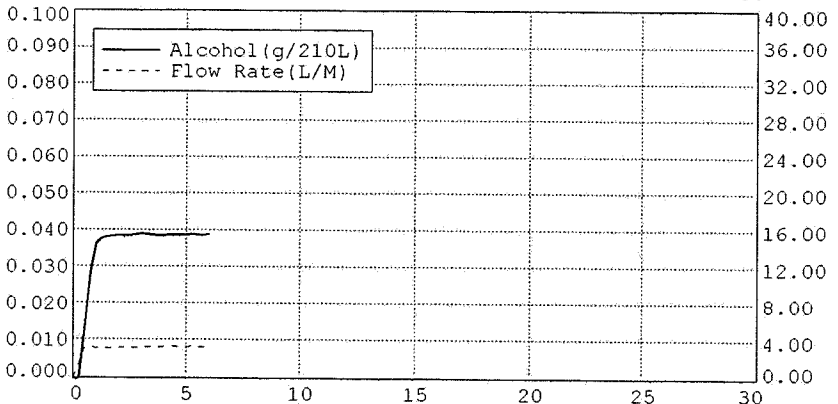
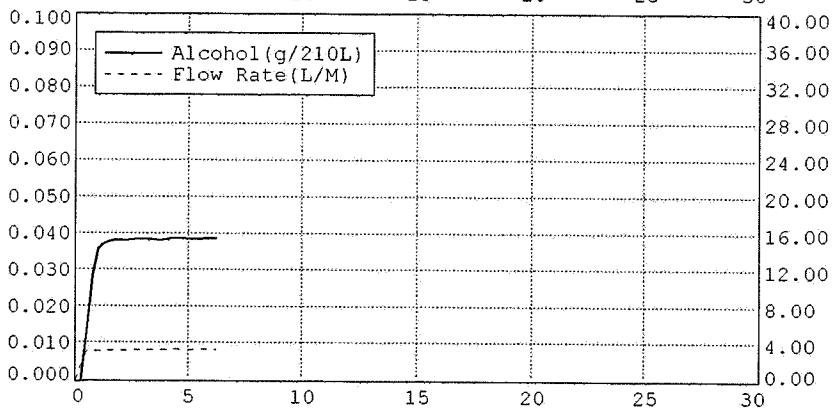
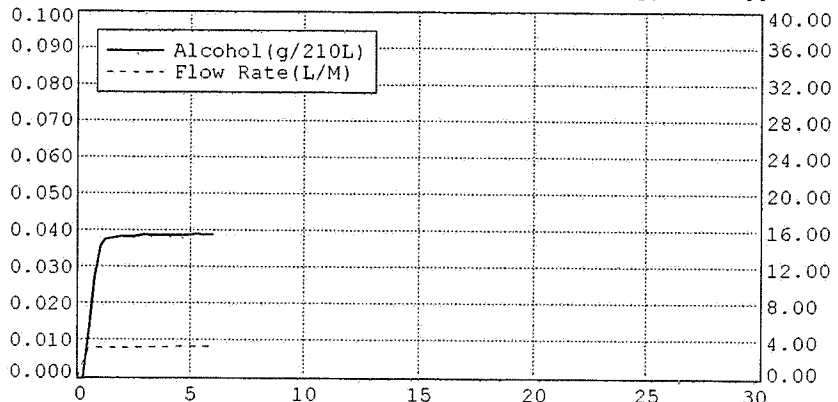
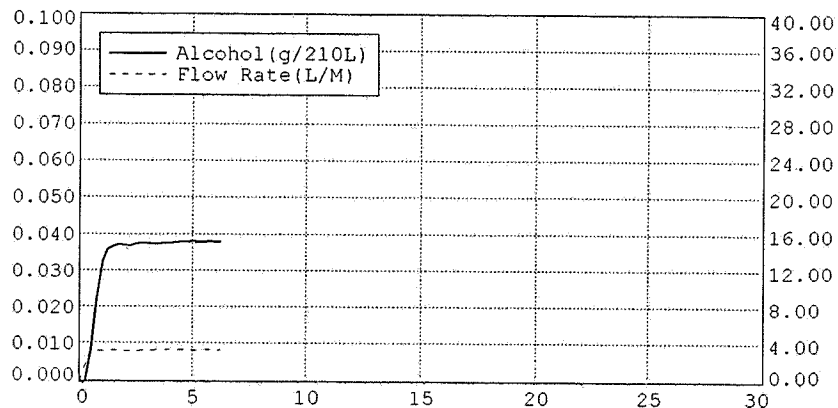
Date: 06/30/2021
 Time: 10:33:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.86: 0.040
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 1045 psi

BLANK TEST	0.000	10:35
INTERNAL STANDARD	VERIFIED	10:35
EXTERNAL STANDARD	0.039	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.040	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.040	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.040	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.040	10:39
BLANK TEST	0.000	10:40

Average = 0.0398
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

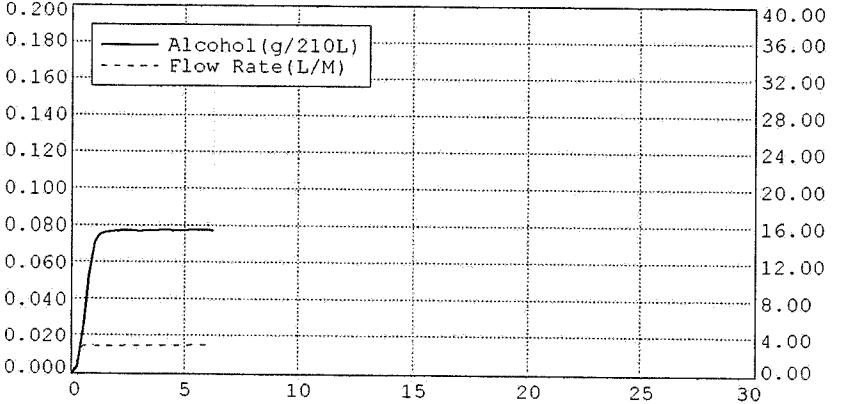
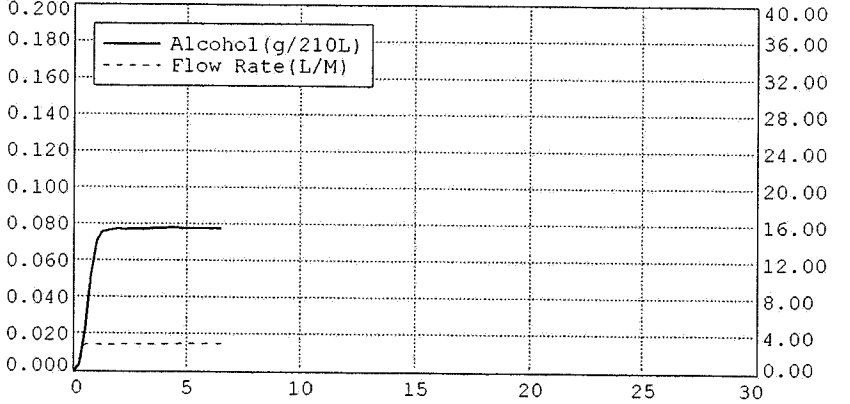
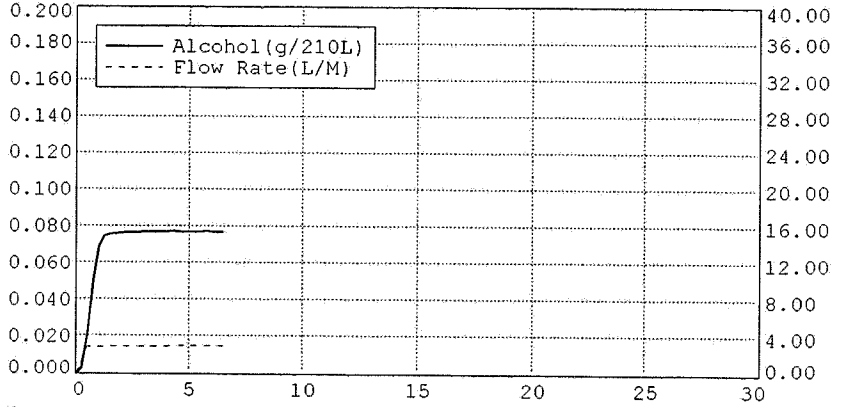
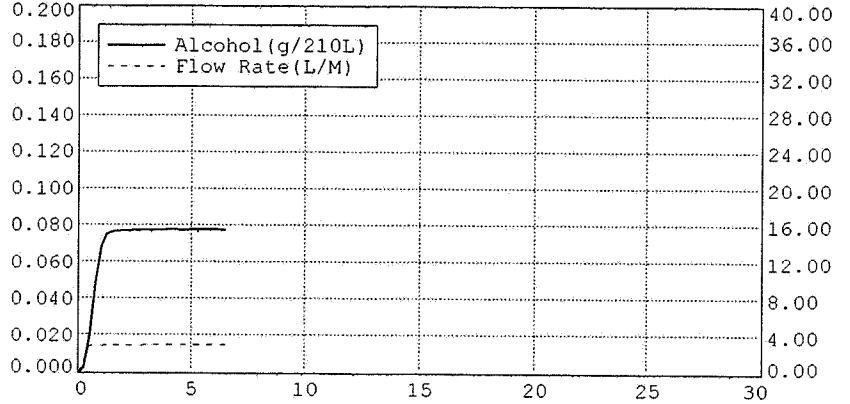
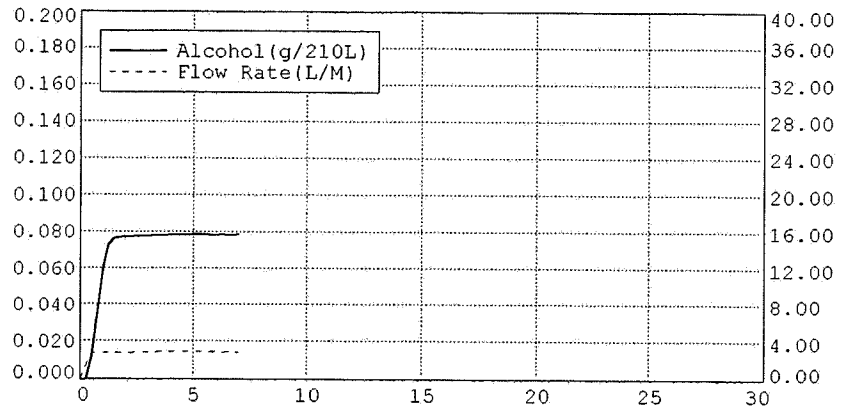
Date: 06/30/2021
 Time: 10:41:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.87: 0.080
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 729 psi

BLANK TEST	0.000	10:42
INTERNAL STANDARD	VERIFIED	10:42
EXTERNAL STANDARD	0.080	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.079	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.078	10:45
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.079	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.079	10:47
BLANK TEST	0.000	10:48

Average = 0.0790
 Std Dev = 0.0007



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

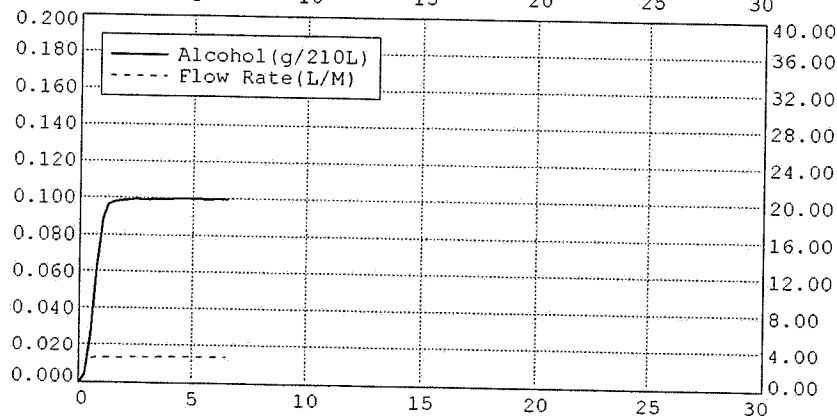
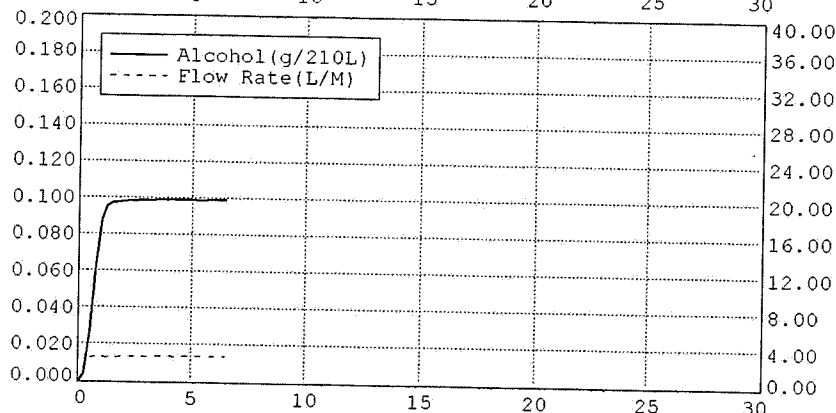
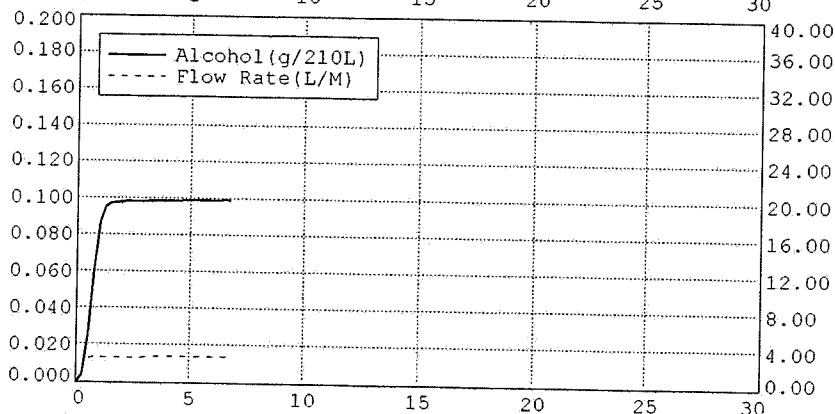
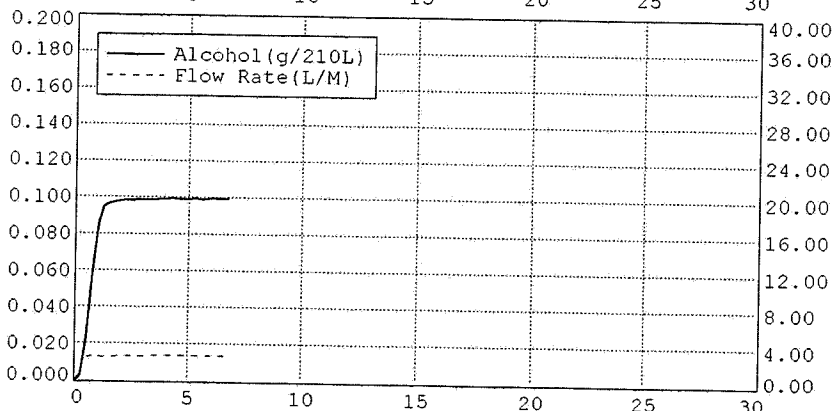
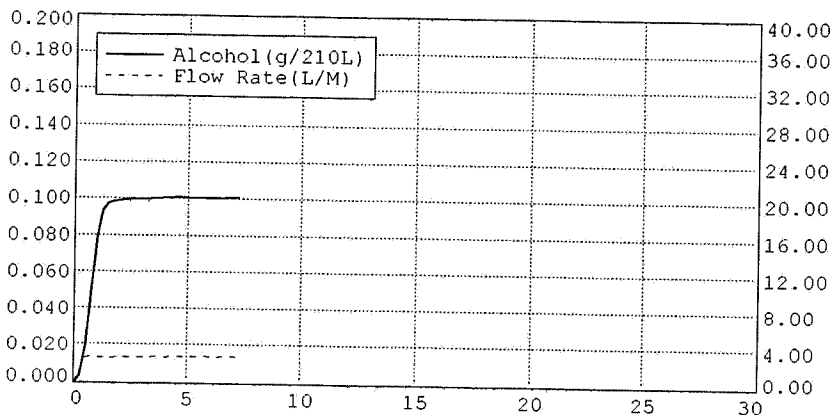
Date: 06/30/2021
 Time: 10:49:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.86: 0.100
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 1084 psi

BLANK TEST	0.000	10:51
INTERNAL STANDARD	VERIFIED	10:51
EXTERNAL STANDARD	0.102	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.100	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.100	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.100	10:54
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.101	10:56
BLANK TEST	0.000	10:57

Average = 0.1006
 Std Dev = 0.0009



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

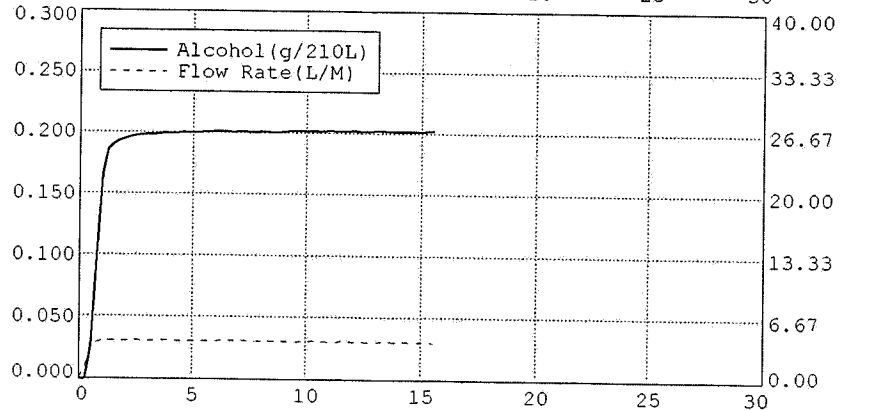
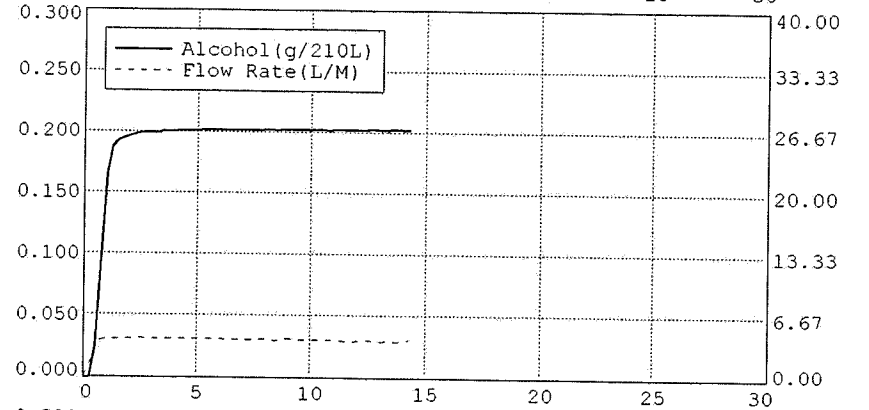
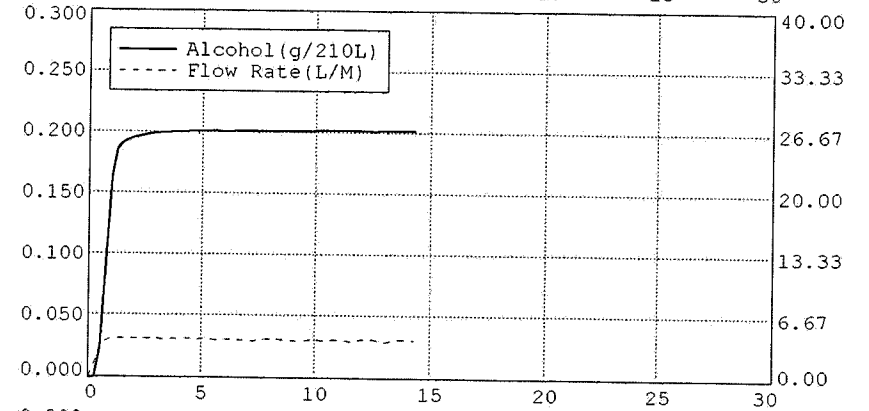
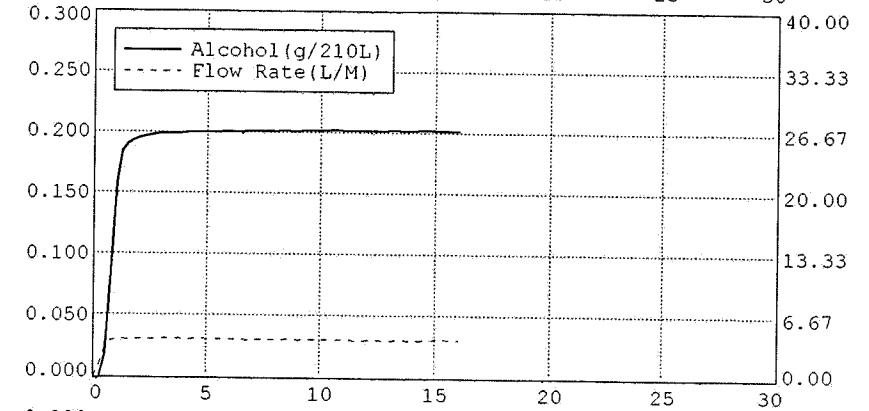
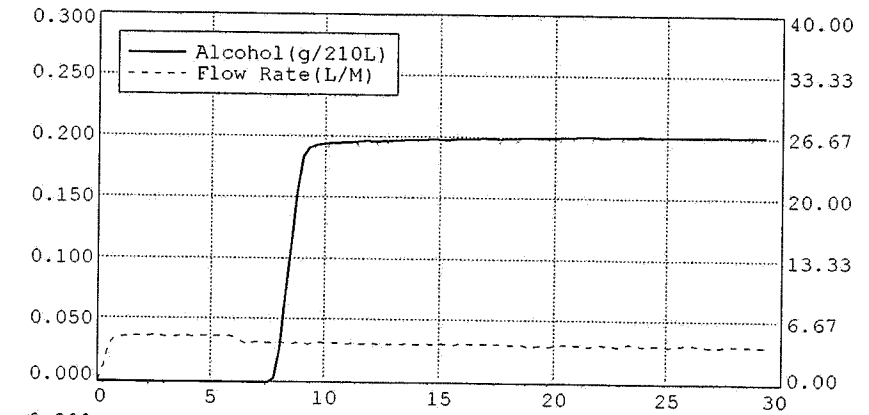
Date: 06/30/2021
 Time: 15:13:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 19200
 EXPIRATION: 08/06/2021

BLANK TEST	0.000	15:14
INTERNAL STANDARD	VERIFIED	15:14
EXTERNAL STANDARD	0.202	15:15
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.203	15:16
BLANK TEST	0.000	15:17
EXTERNAL STANDARD	0.202	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.203	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.203	15:20
BLANK TEST	0.000	15:21

Average = 0.2026
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

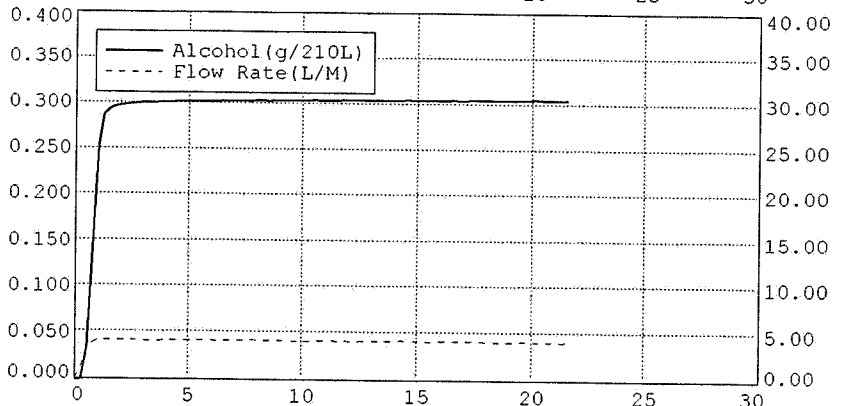
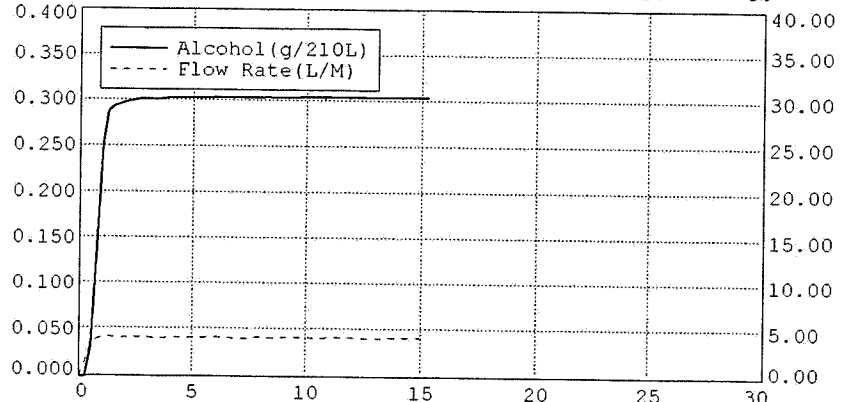
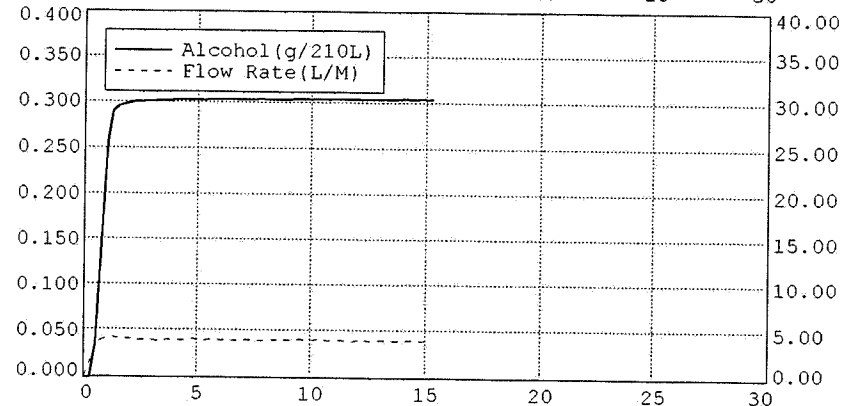
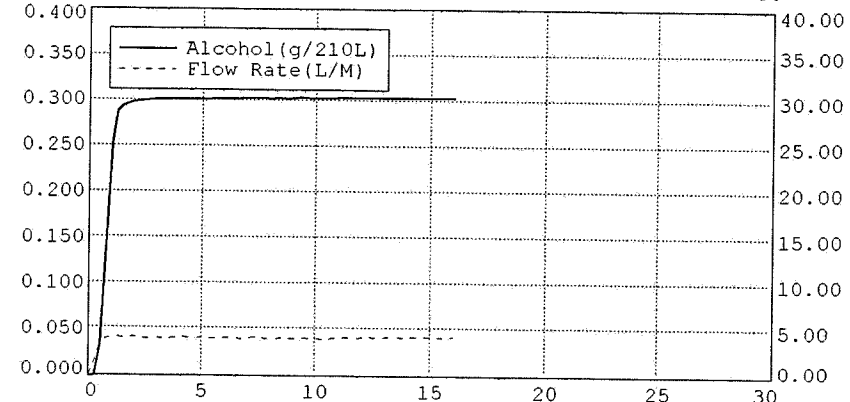
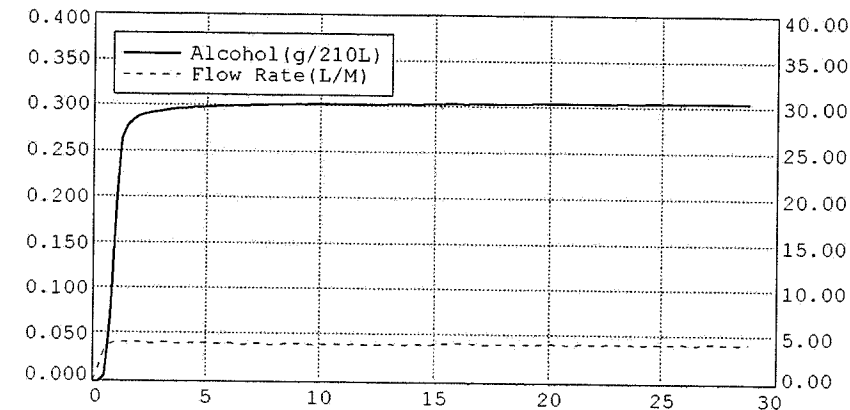
Date: 06/30/2021
 Time: 15:23:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 19330
 EXPIRATION: 11/13/2021

BLANK TEST	0.000	15:24
INTERNAL STANDARD	VERIFIED	15:24
EXTERNAL STANDARD	0.305	15:25
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.304	15:26
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.304	15:28
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.304	15:29
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.305	15:31
BLANK TEST	0.000	15:32

Average = 0.3044
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 06/30/2021
Time: 15:39:34

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

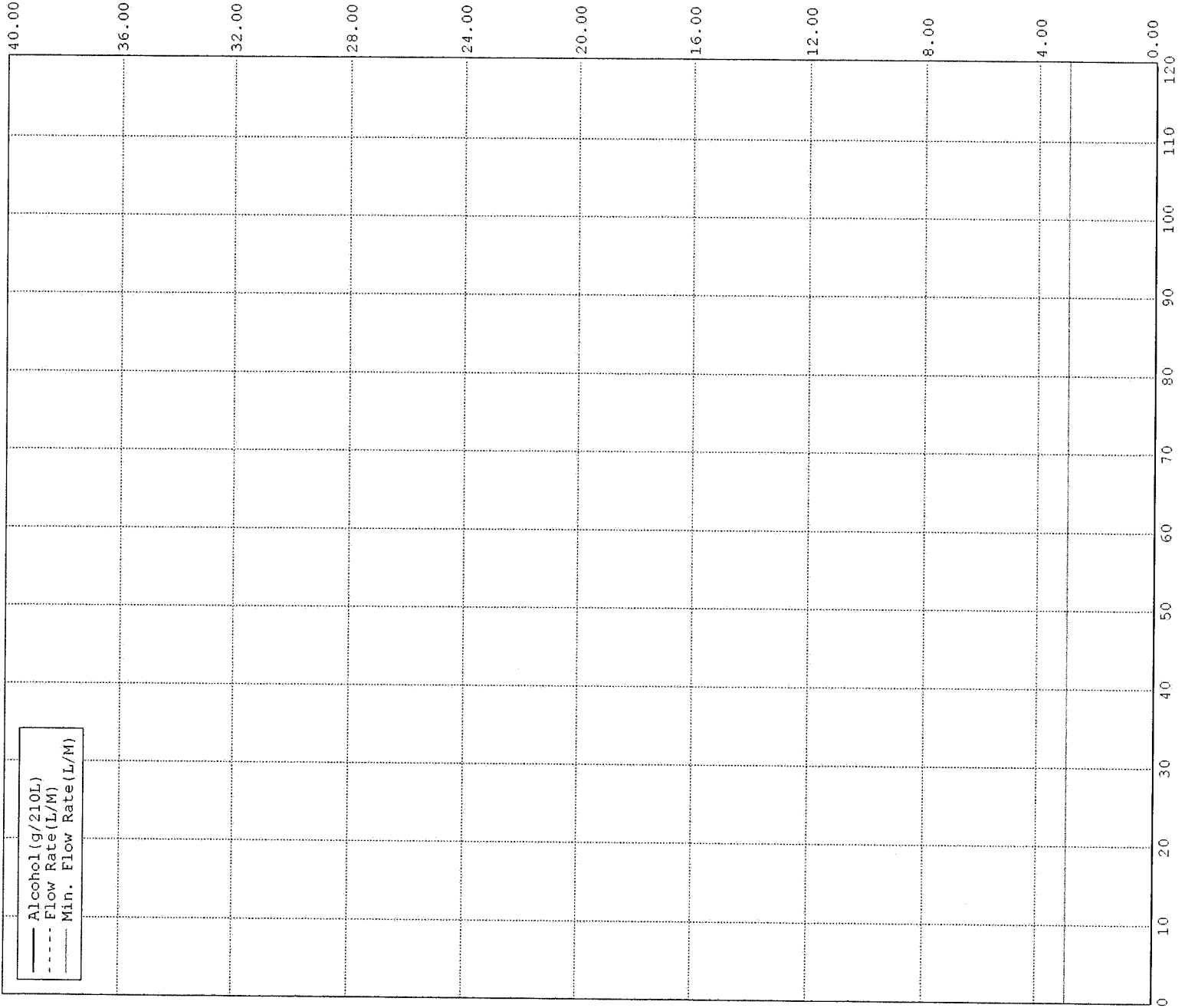
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.86: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 15:44
BLANK TEST 0.000 15:44
INTERNAL STANDARD VERIFIED 15:45
EXTERNAL STANDARD 0.078 15:45
BLANK TEST 0.000 15:46
SUBJECT SAMPLE INCOMPLETE 15:48

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 06/30/2021
Time: 16:16:53

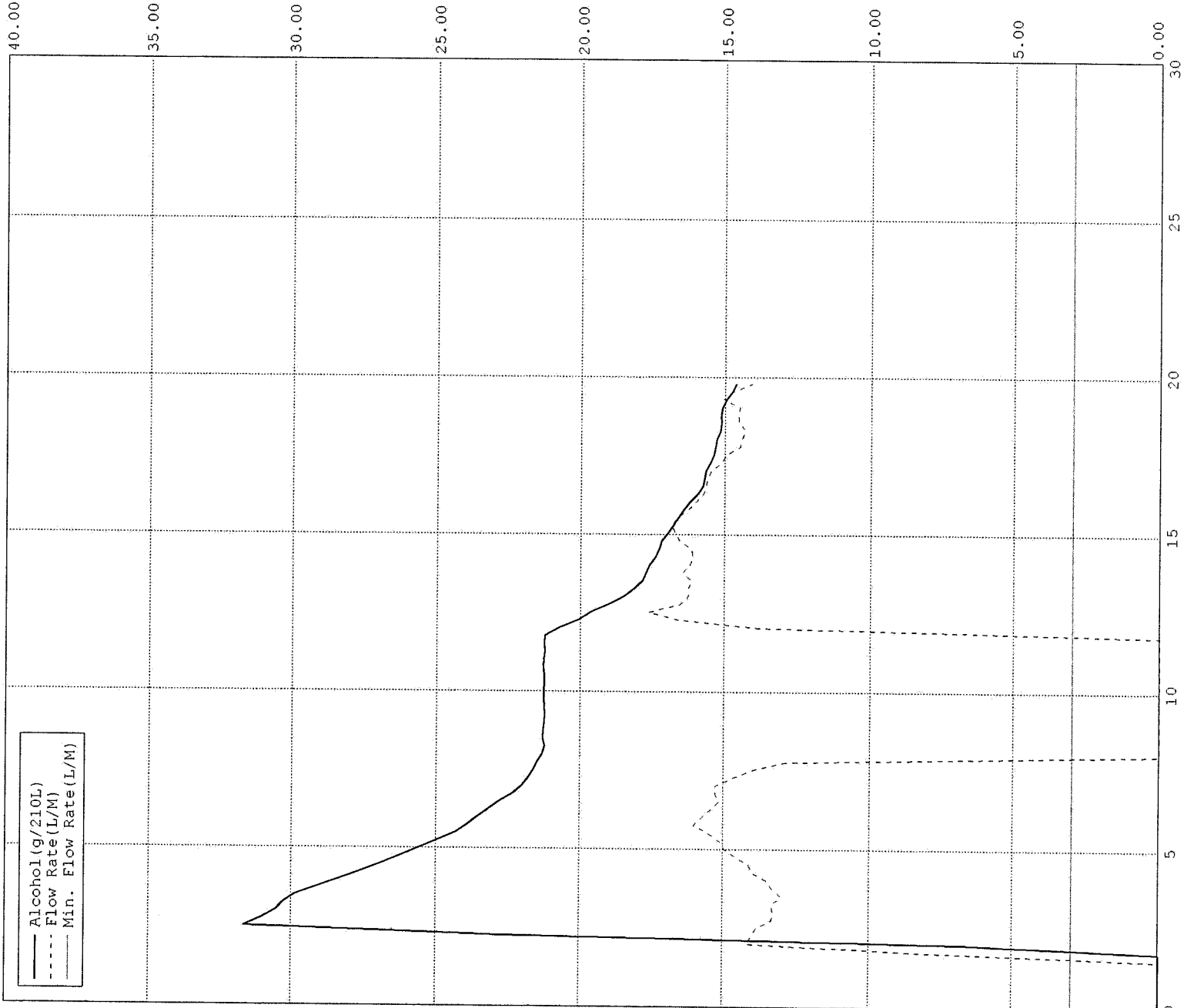
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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 29.84: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 16:17
BLANK TEST 0.000 16:17
INTERNAL STANDARD VERIFIED 16:18
EXTERNAL STANDARD 0.082 16:18
BLANK TEST 0.000 16:19
SUBJECT SAMPLE INVALID 16:20



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 06/30/2021
Time: 15:50:42

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 29.85: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

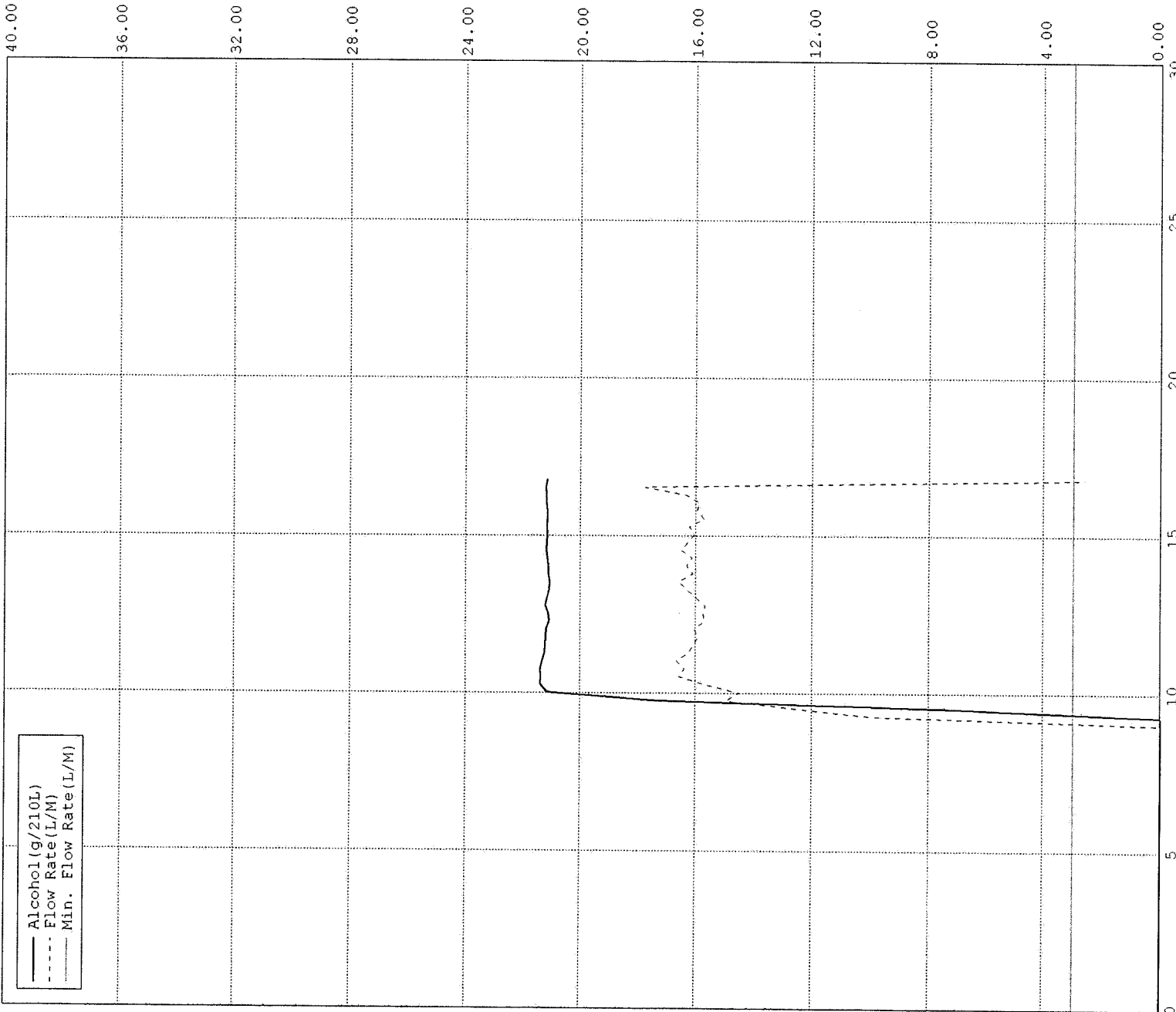
DIAGNOSTIC CHECK PASSED 15:51
BLANK TEST 0.000 15:52
INTERNAL STANDARD VERIFIED 15:52
Xq = 0.079 (0.00%)
EXTERNAL STANDARD 0.080 15:52
X[1] = 0.0797 (0.0008) (0.0025)
BLANK TEST 0.000 15:53
SUBJECT SAMPLE XXX 15:53
X[1] = 0.1062 (-0.0171) (-0.0006)

Interference Detected

Filter Avg: 0.0010

Filter S Avg: 0.0000

CRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 06/30/2021
Time: 15:57:27

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

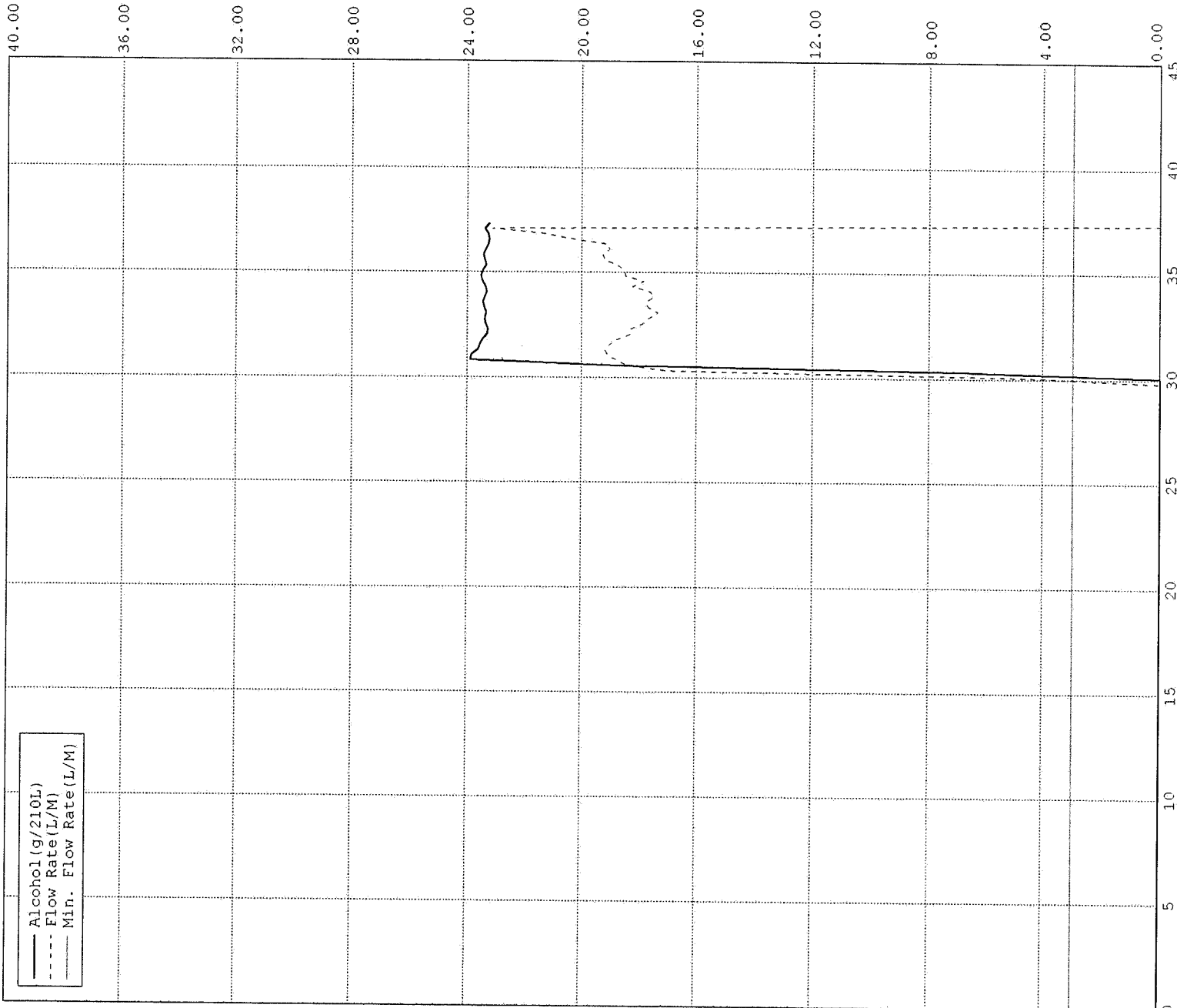
DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 15:58
BLANK TEST 0.000 15:58
INTERNAL STANDARD VERIFIED 15:58
Xq = 0.081 (1.64%)
EXTERNAL STANDARD 0.081 15:58
X[1] = 0.0814 (0.0012) (0.0024)
BLANK TEST 0.000 16:00
SUBJECT SAMPLE XXX 16:00
X[1] = 0.1157 (-0.0199) (0.0025)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 06/30/2021
Time: 16:03:22

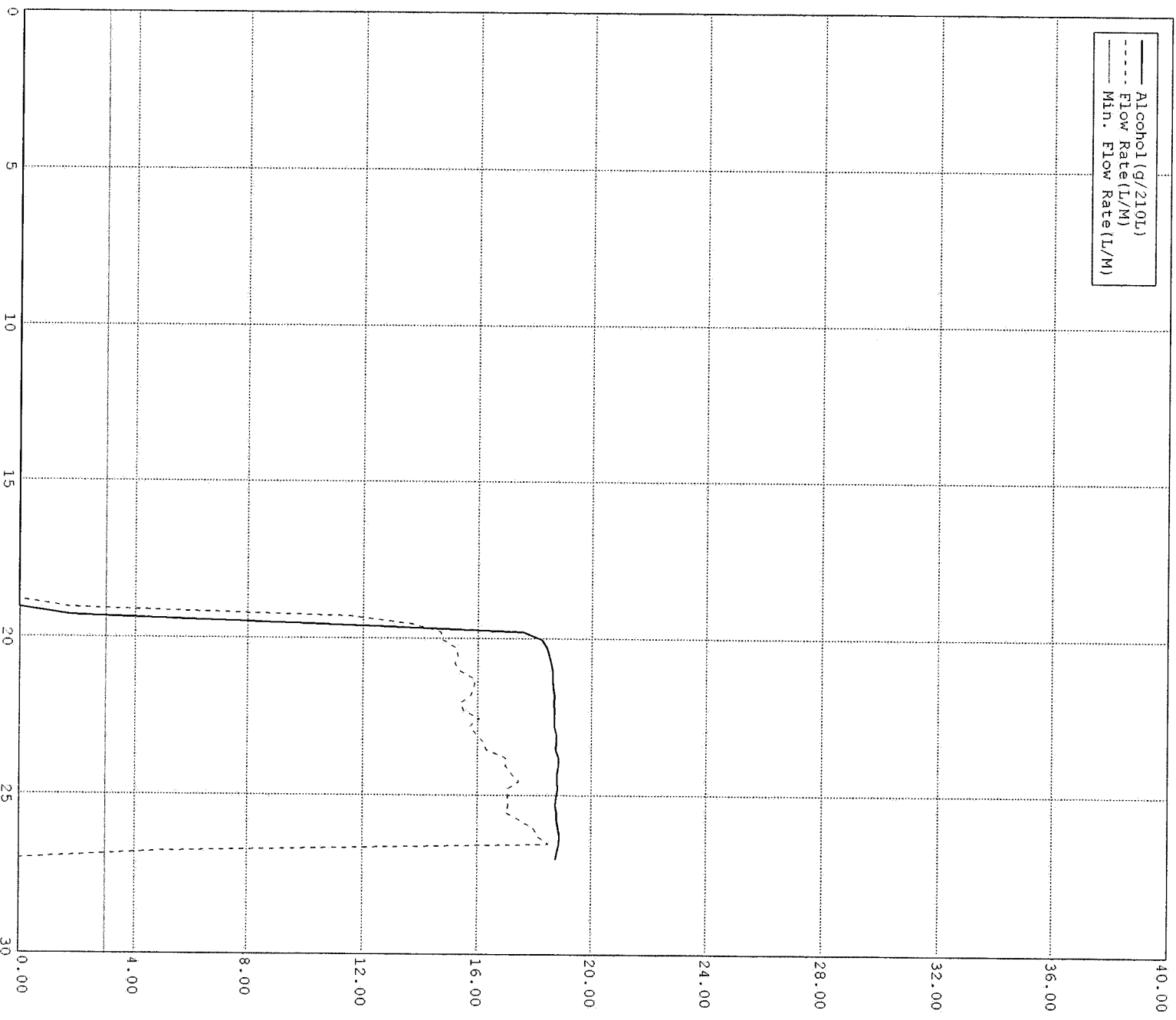
SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	16:04
INTERNAL STANDARD	0.000	16:04
EXTERNAL STANDARD	0.081	16:04
Xq = 0.080 (0.66%)		
X[1] = 0.0815 (0.0025)	0.000	16:05
INTERNAL STANDARD	0.000	16:06
EXTERNAL STANDARD	0.094	16:06
X[1] = 0.0944 (0.0001)	0.000	16:07
INTERNAL STANDARD	0.079	16:07
EXTERNAL STANDARD	0.000	16:08
X[1] = 0.0789 (-0.0006)	0.000	16:08
INTERNAL STANDARD		
EXTERNAL STANDARD		



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 06/30/2021
Time: 16:10:42

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

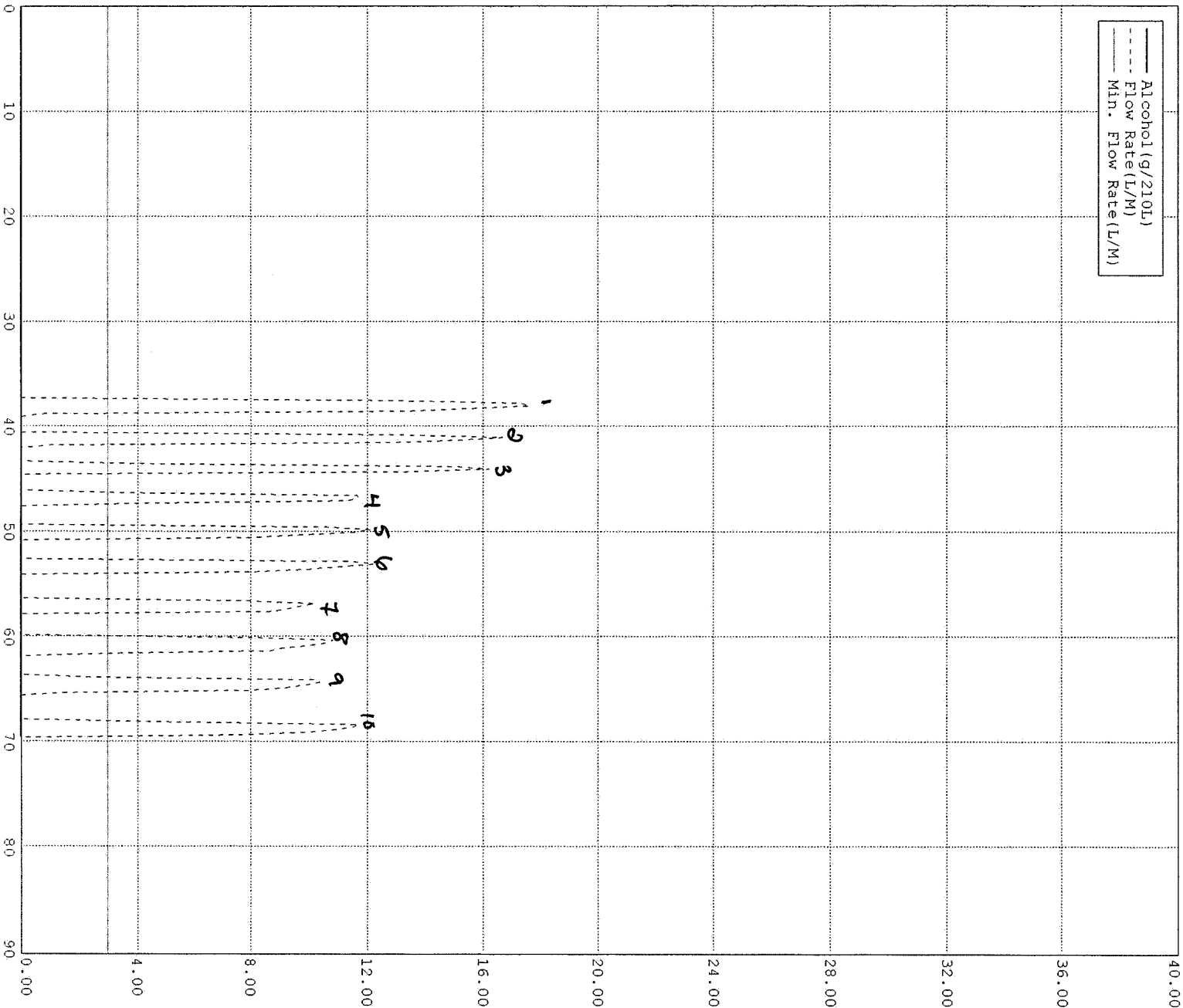
DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	16:12
BLANK TEST	0.000	16:12
INTERNAL STANDARD	VERIFIED	16:12
EXTERNAL STANDARD	0.081	16:12
BLANK TEST	0.000	16:13
SUBJECT SAMPLE	XXX	16:15

Maximum Attempts Exceeded

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 06/30/2021
Time: 16:21:57

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

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

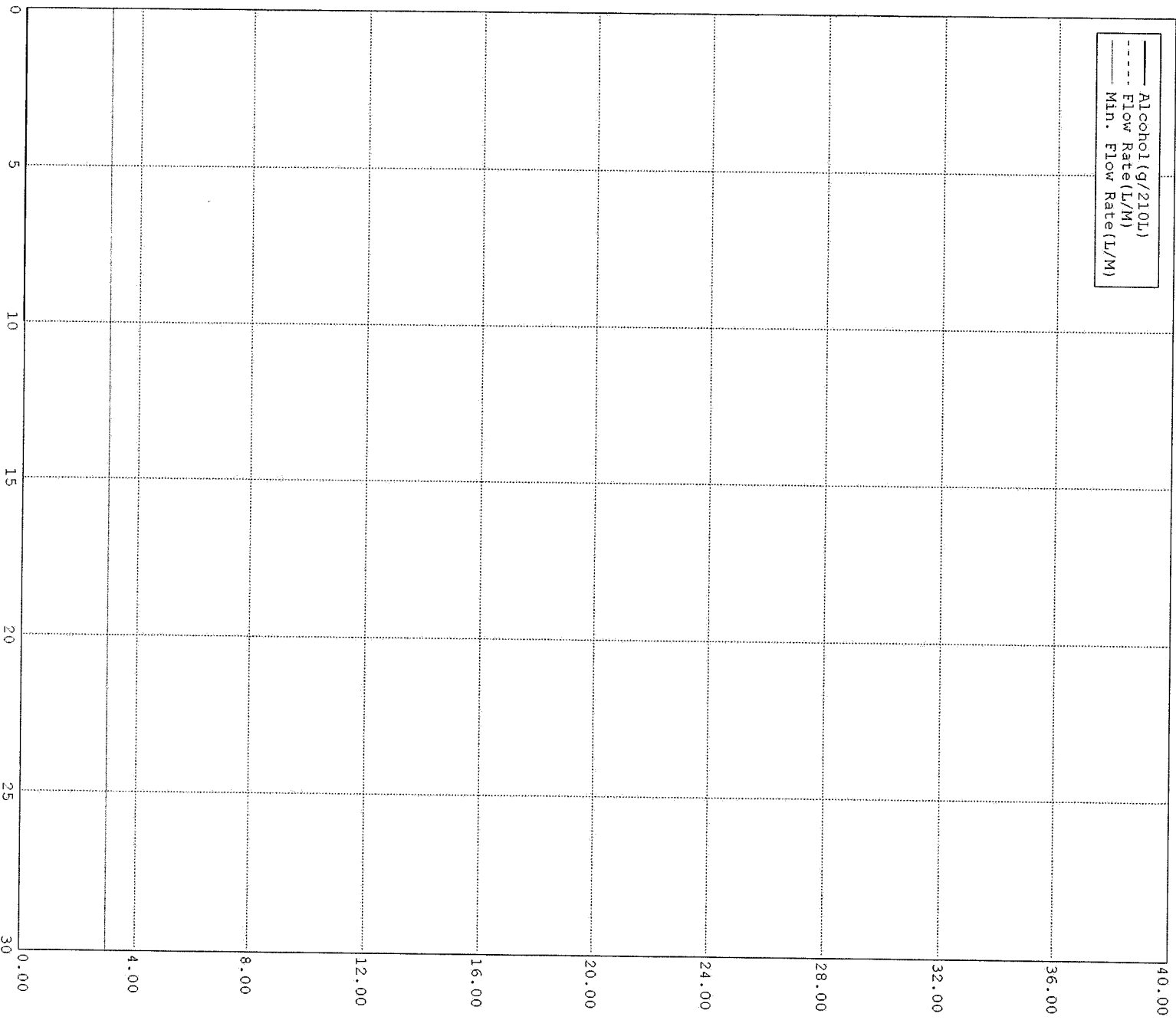
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.84: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	16:23
BLANK TEST	0.000	16:23
INTERNAL STANDARD	VERIFIED	16:23
EXTERNAL STANDARD	0.080	16:23
BLANK TEST	0.000	16:24

RFI DETECTED

RFI

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 06/30/2021
Time: 16:31:40

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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 29.85: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	16:33
BLANK TEST	0.000	16:33
INTERNAL STANDARD	VERIFIED	16:33
EXTERNAL STANDARD	0.081	16:33
BLANK TEST	0.000	16:34
SUBJECT SAMPLE (Vol=2.25L)	0.000	16:35
BLANK TEST	0.000	16:36
EXTERNAL STANDARD	0.079	16:36
BLANK TEST	0.000	16:37

CMS

