

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMCEF 2015 R1
Status: Active

Instrument S/N 100403 Analyst C. O'Bryant Start Date 10/12/17

1. Diagnostic Test (attached) Internal Standard value $\leq 3.00\%$ Yes

1. Voltage Checks

a. 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)

b. Set RFI

c. Adjust barometer reading to match NIST traceable barometer

d. Adjust volume setting, if needed (1.5L +/- 0.1L)

e. Print Technician Screen (attached)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1.5 L (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf Argas Lot AG616504 Exp 06/13/18

ii. 0.040g/210L Mnf Argas Lot AG630101 Exp 10/27/18

iii. 0.080g/210L Mnf Argas Lot AG634001 Exp 12/15/18

iv. 0.100g/210L Mnf Argas Lot AG629304 Exp 10/19/18

v. 0.200g/210L Mnf Guth Lot 17090 Exp 2/24/19

1. Simulator S/N SD1200 Date Calibrated 3/29/17

vi. 0.300g/210L Mnf Guth Lot 16410 Exp 12/19/18

1. Simulator S/N DR4162 Date Calibrated 3/27/17

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 16160 Level 0.100 Exp 7/19/18

1. Simulator S/N DR4178 Date Calibrated 3/27/17

ii. Isopropanol - Mnf Guth Lot 17060 Level 0.100 Exp 2/14/19

1. Simulator S/N SD1176 Date Calibrated 3/29/17

iii. Negative Control - Mnf Guth Lot 17280 Level 0.100 Exp 9/11/19

1. Simulator S/N DR4176 Date Calibrated 3/28/17

e. RFI

6. Verify stylus is calibrated

9. Verification of Calibration

7. Reset Options

10. Non-Drinking Subject Test (attached)

8. Clear Memory

11. Upload

13. Remove tank prior to shut down

End Date 10/17/17

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 10/12/2017
Time: 07:14:40

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 = 45.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.70 V PASSED
(1.04 V - 2.42 V)
Cooler Voltage = 1.62 V PASSED
(0.98 V - 2.30 V)
Bias Voltage = 80 V PASSED
(47 V - 111 V)
Chopper Freq = 544 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 5.075 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 = 0.075 0.82% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100403

Date: 10/12/2017

Time: 1:36 PM

Temperatures (°C)

Sample Cell: 49.8°C

Breath Tube: 46.3°C

Current Barometer 29.7 in

Volume (Ltr) 1.57

Settings

Lamp: 1.71 V

Bias: 80 V

Cooler: 1.78 V

Chopper: 542 Hz

Voltages (V)

Flow: 1.05 V

Detector: -0.009 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 05/18/2011
Time: 13:44:51

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca	=	0.1000		
CAL	=	0.986050	0.800	<= CAL < 1.200
b1	=	0.0000	0.0000	<= b1 < 0.0040
b2	=	0.0043	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0743	0.0500	<= Xq < 0.2000
a21	=	1.112347	1.050	<= a21 < 1.300
a31	=	0.534530	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 10/12/2017
Time: 13:42:33

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

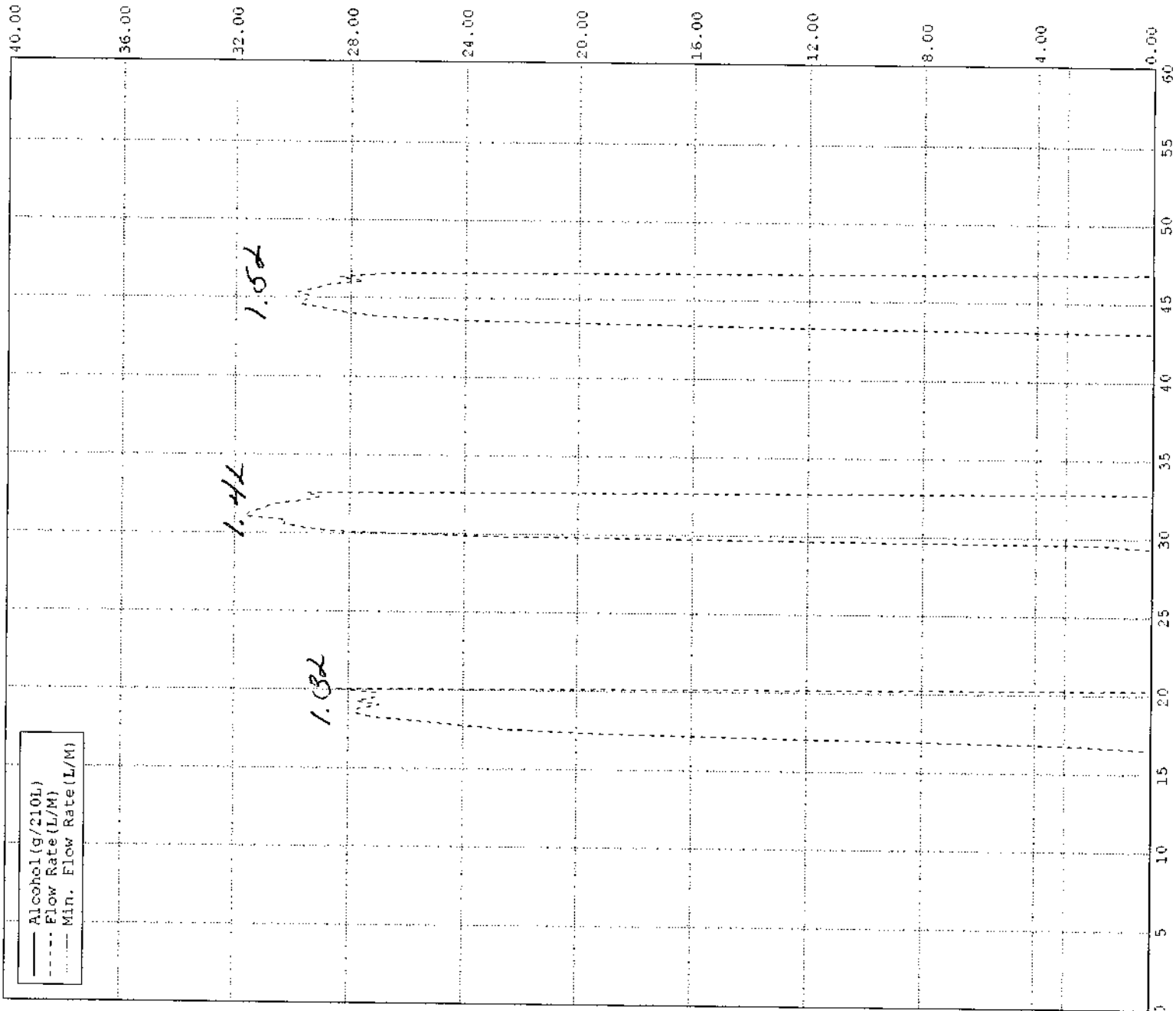
DEPT/AGENCY:
AAAI

CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.73: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	13:46
BLANK TEST	0.000	13:46
INTERNAL STANDARD	VERIFIED	13:46
EXTERNAL STANDARD	0.081	13:46
BLANK TEST	0.000	13:47
SUBJECT SAMPLE (Vol=1.59L)	0.000	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.081	13:49
BLANK TEST	0.000	13:50



LINEARITY CHECK

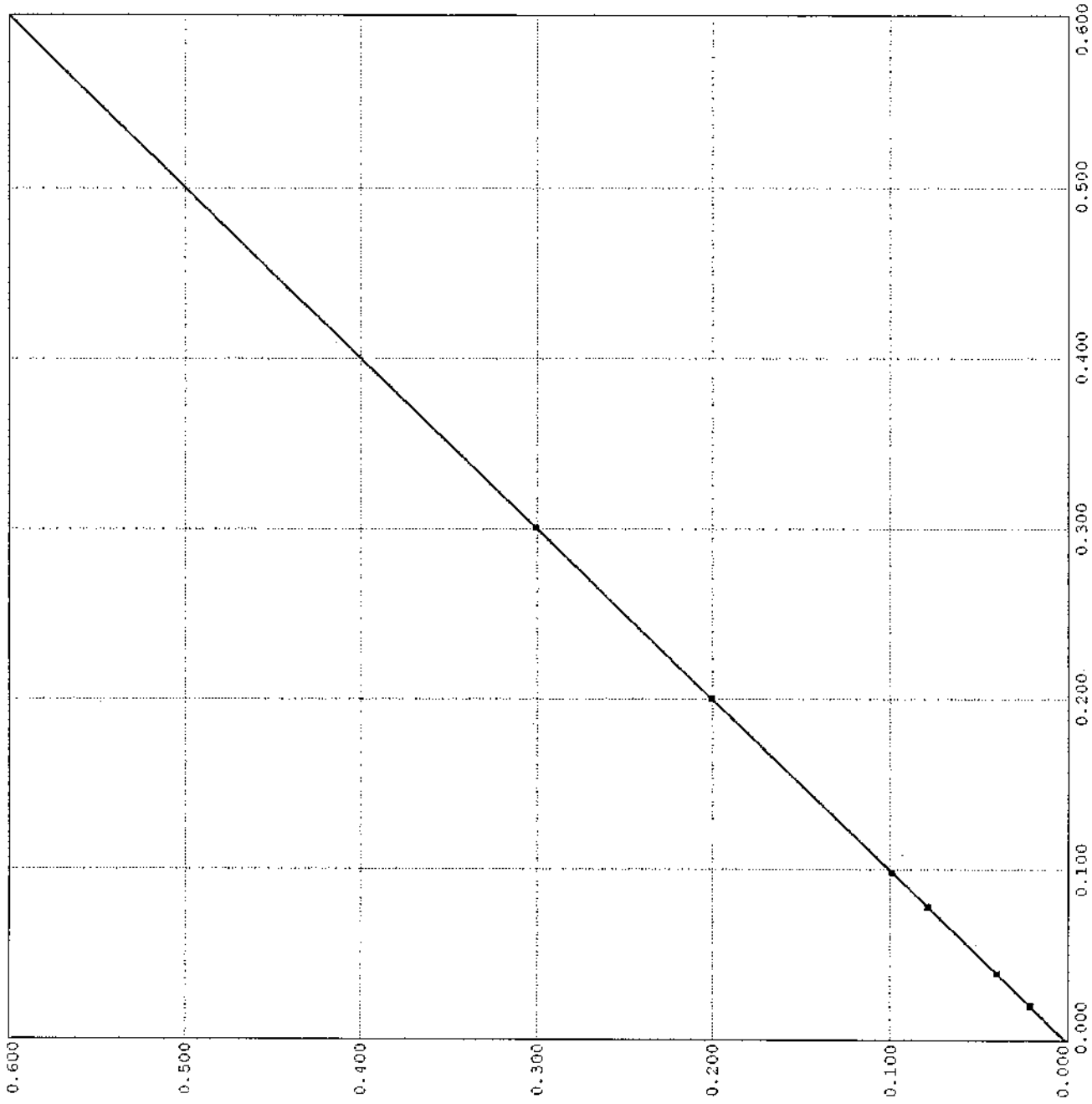
Alaska Department of Public Safety
 DATAMASTER dmt: 100403

Date: 10/17/2017
 Time: 08:25:03

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0220	0.0000
0.039	0.0410	0.0000
0.078	0.0800	0.0000
0.098	0.1000	0.0000
0.200	0.2014	0.0005
0.300	0.3014	0.0005

SLOPE = 0.997342
 R² = 0.999999



CAB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100403

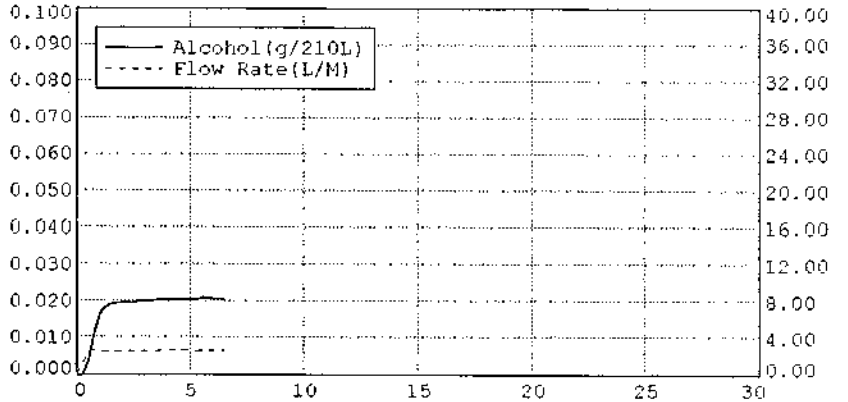
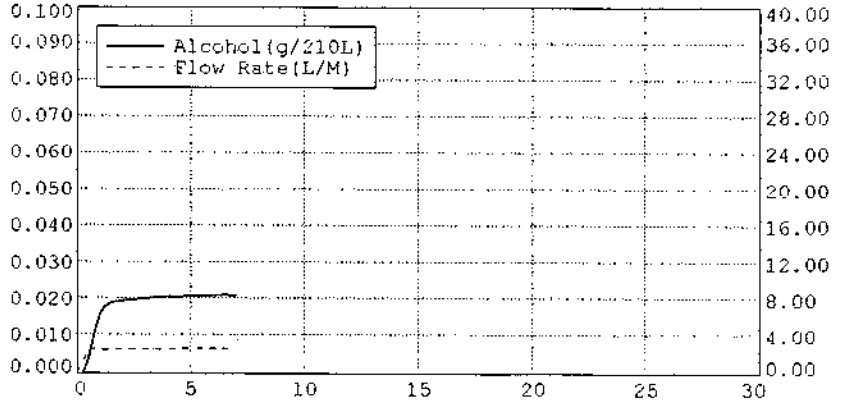
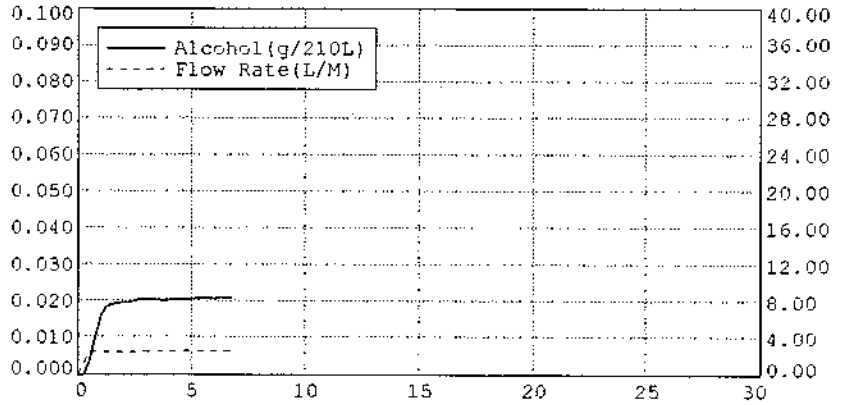
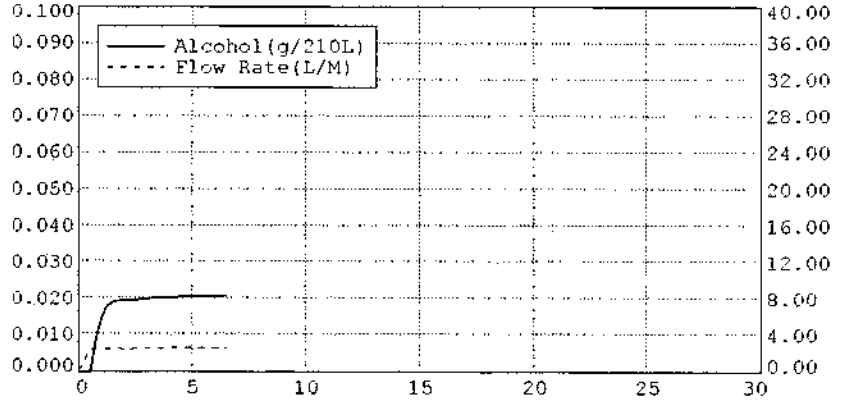
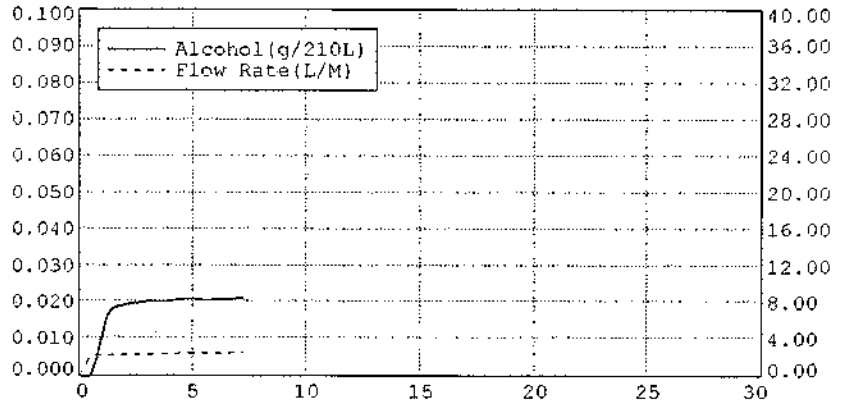
Date: 10/17/2017
 Time: 08:25:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.19: 0.020
 LOT #: AG616504
 EXPIRATION: 06/13/2018
 TANK PRESSURE: 501 psi

BLANK TEST	0.000	08:34
INTERNAL STANDARD	VERIFIED	08:34
EXTERNAL STANDARD	0.022	08:34
BLANK TEST	0.000	08:35
EXTERNAL STANDARD	0.022	08:35
BLANK TEST	0.000	08:36
EXTERNAL STANDARD	0.022	08:36
BLANK TEST	0.000	08:37
EXTERNAL STANDARD	0.022	08:37
BLANK TEST	0.000	08:38
EXTERNAL STANDARD	0.022	08:38
BLANK TEST	0.000	08:39

Average = 0.0220
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100403

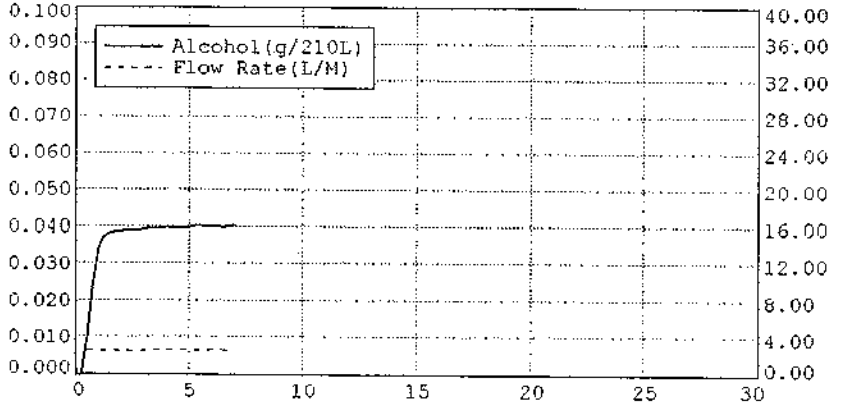
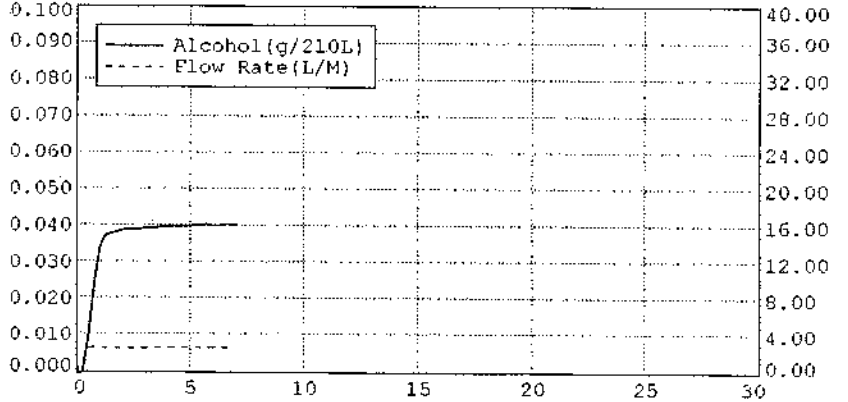
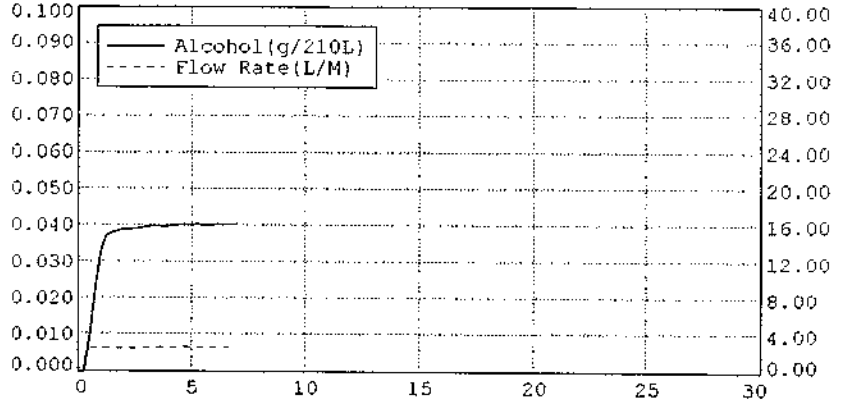
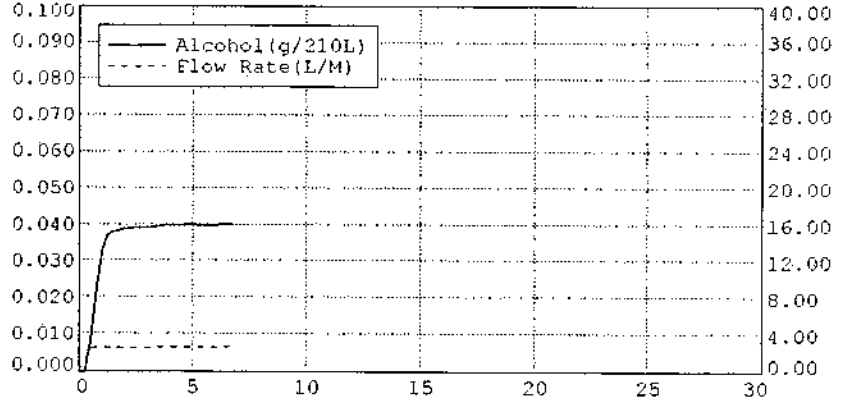
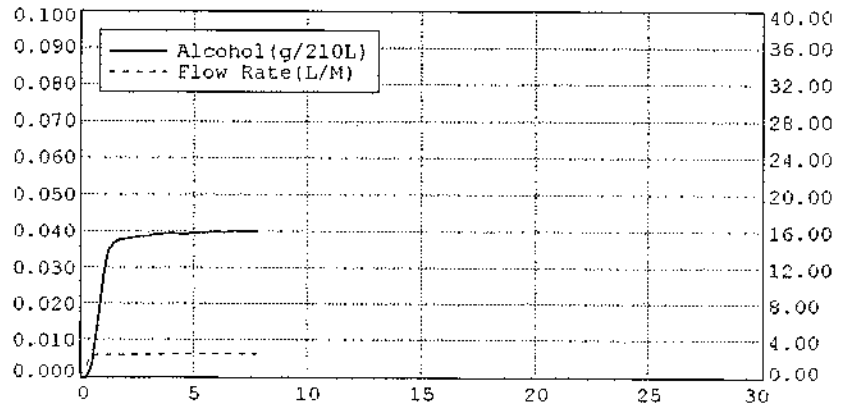
Date: 10/17/2017
 Time: 08:40:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.19: 0.039
 LOT #: AG630101
 EXPIRATION: 10/27/2018
 TANK PRESSURE: 585 psi

BLANK TEST	0.000	08:42
INTERNAL STANDARD	VERIFIED	08:42
EXTERNAL STANDARD	0.041	08:42
BLANK TEST	0.000	08:43
EXTERNAL STANDARD	0.041	08:43
BLANK TEST	0.000	08:44
EXTERNAL STANDARD	0.041	08:44
BLANK TEST	0.000	08:45
EXTERNAL STANDARD	0.041	08:46
BLANK TEST	0.000	08:46
EXTERNAL STANDARD	0.041	08:47
BLANK TEST	0.000	08:48

Average = 0.0410
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100403

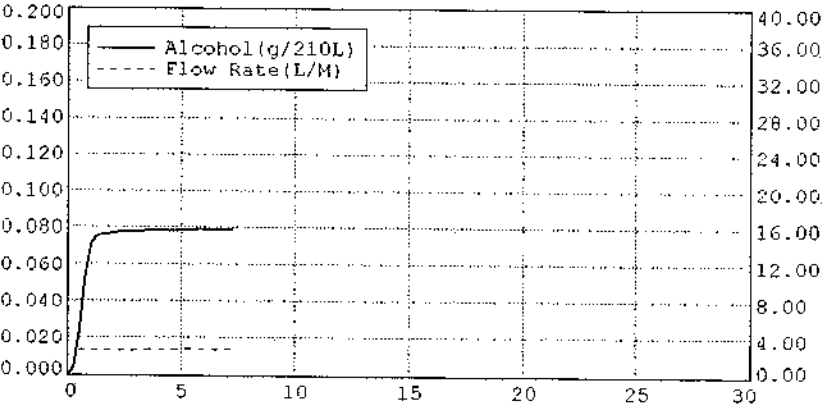
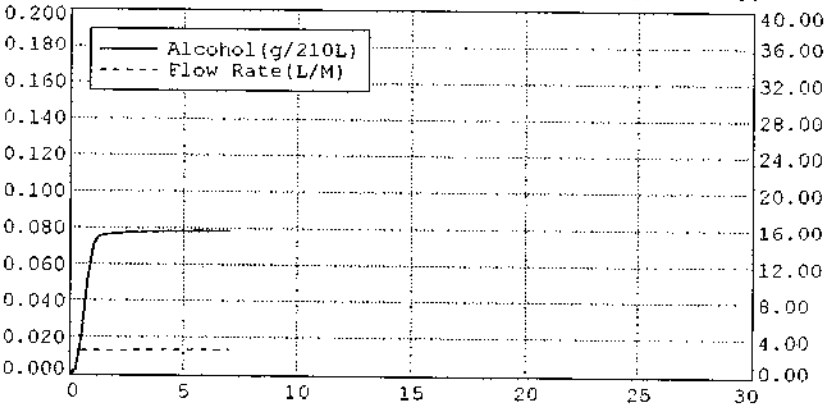
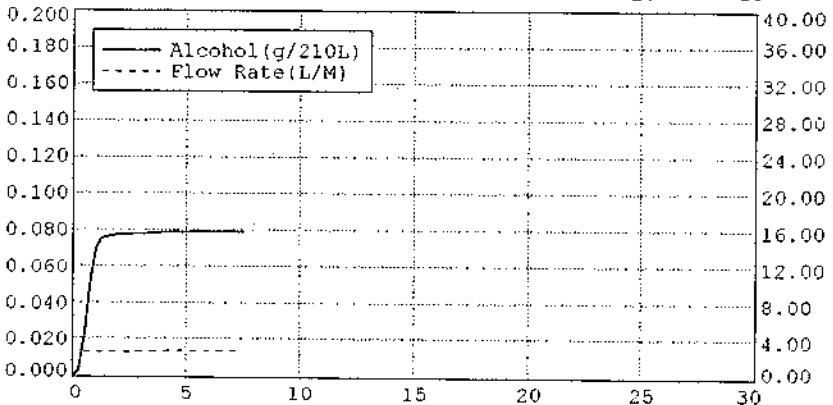
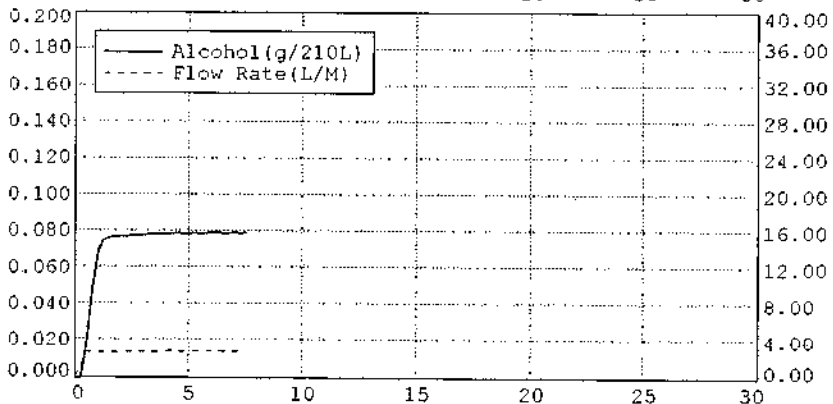
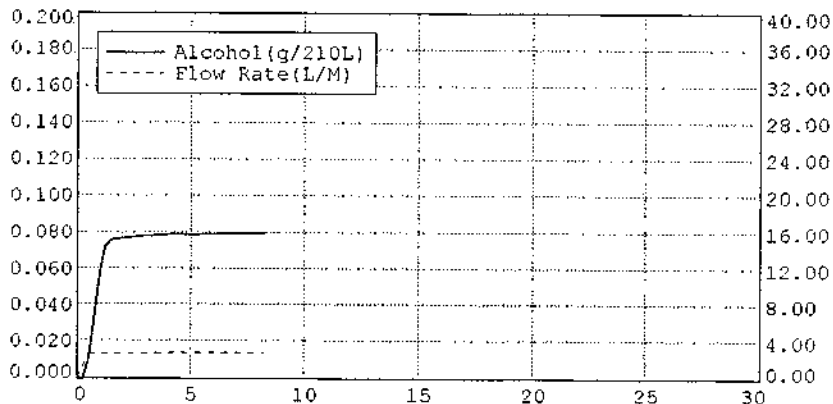
Date: 10/17/2017
 Time: 08:49:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.19: 0.078
 LOT #: AG634001
 EXPIRATION: 12/05/2018
 TANK PRESSURE: 1064 psi

BLANK TEST	0.000	08:50
INTERNAL STANDARD	VERIFIED	08:50
EXTERNAL STANDARD	0.080	08:50
BLANK TEST	0.000	08:51
EXTERNAL STANDARD	0.080	08:52
BLANK TEST	0.000	08:52
EXTERNAL STANDARD	0.080	08:53
BLANK TEST	0.000	08:54
EXTERNAL STANDARD	0.080	08:54
BLANK TEST	0.000	08:55
EXTERNAL STANDARD	0.080	08:55
BLANK TEST	0.000	08:56

Average = 0.0800
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100403

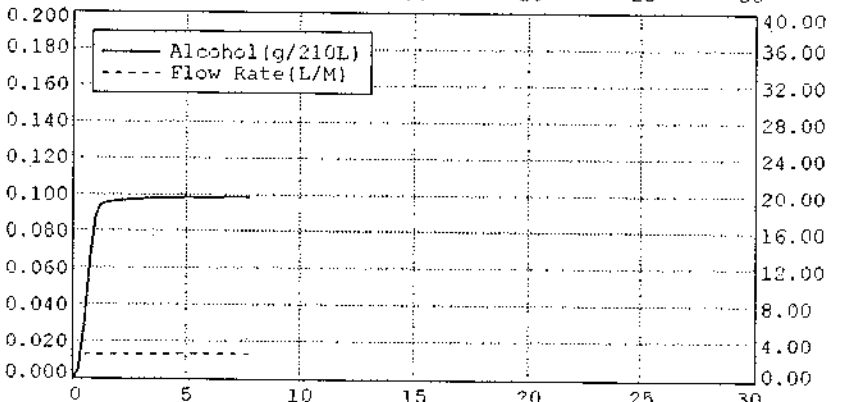
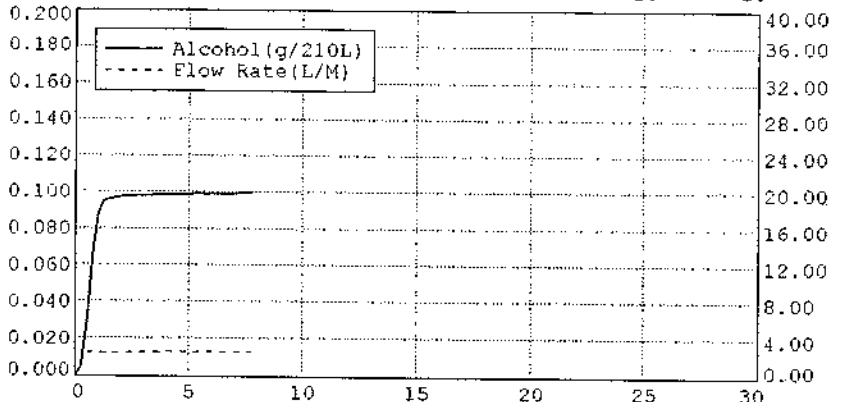
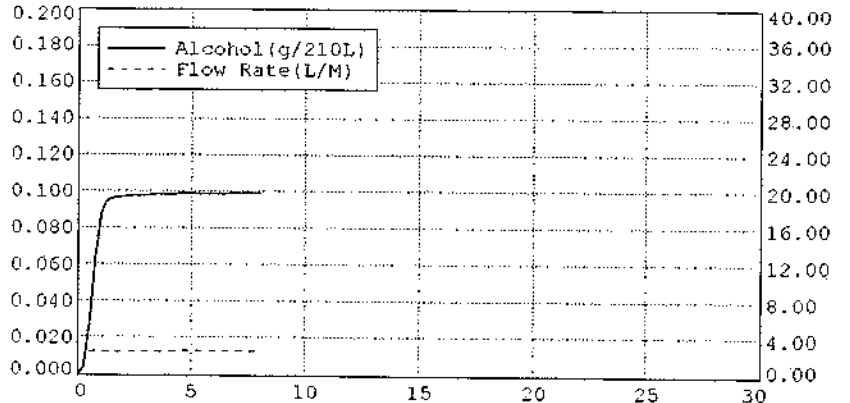
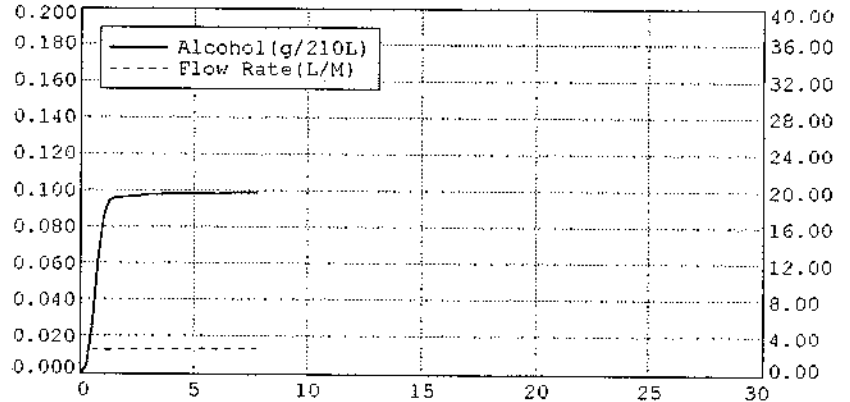
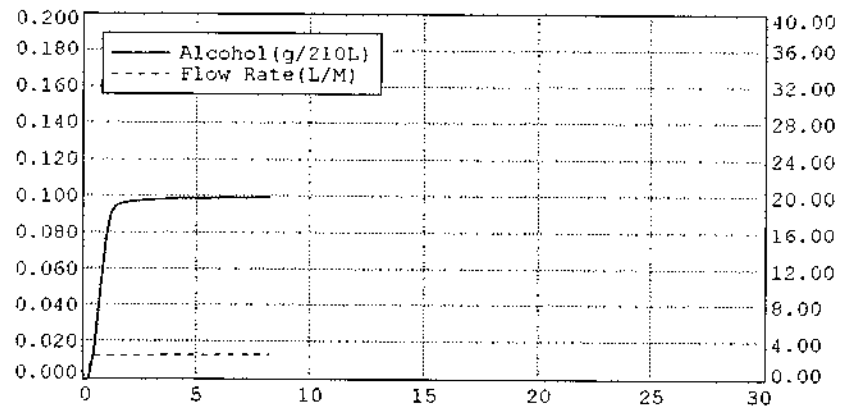
Date: 10/17/2017
 Time: 08:59:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.19: 0.098
 LOT #: AG629304
 EXPIRATION: 10/19/2018
 TANK PRESSURE: 732 psi

BLANK TEST	0.000	09:01
INTERNAL STANDARD	VERIFIED	09:01
EXTERNAL STANDARD	0.100	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.100	09:03
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.100	09:04
BLANK TEST	0.000	09:05
EXTERNAL STANDARD	0.100	09:05
BLANK TEST	0.000	09:06
EXTERNAL STANDARD	0.100	09:06
BLANK TEST	0.000	09:07

Average = 0.1000
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

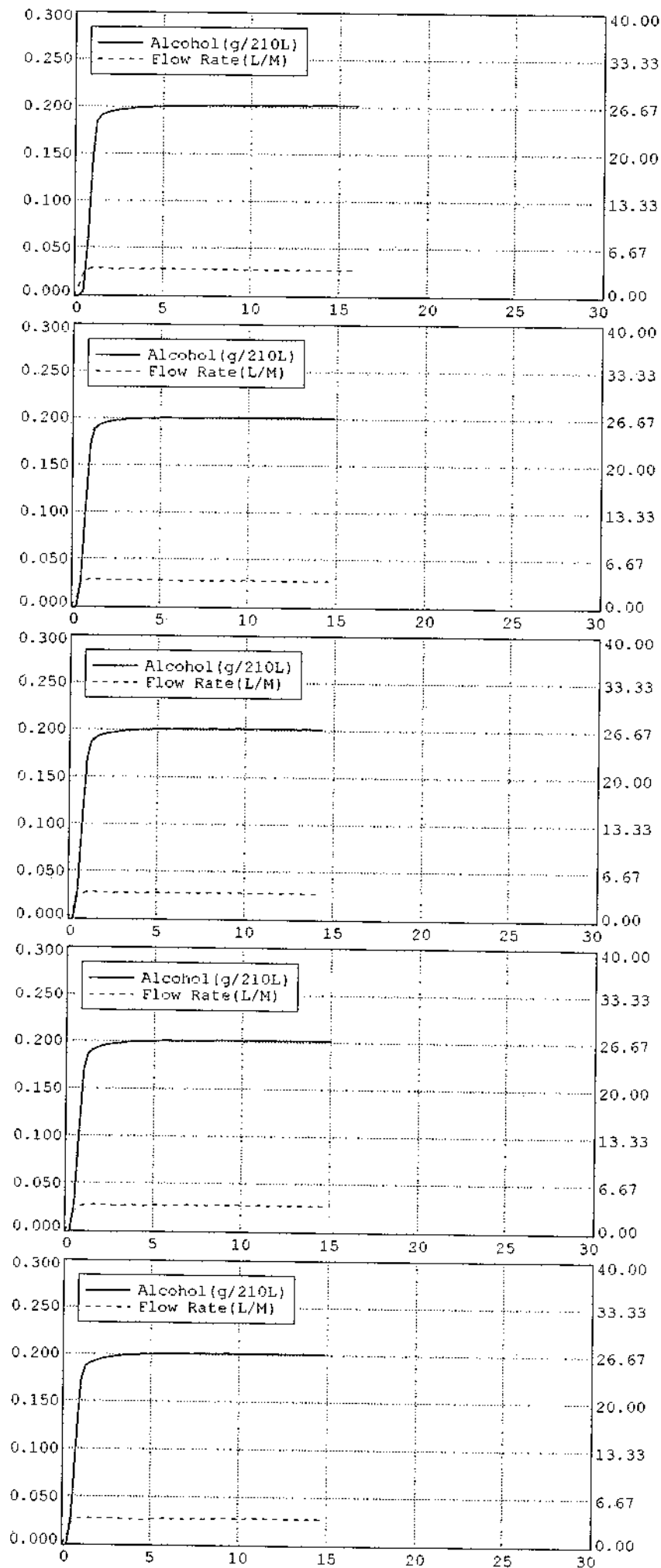
Alaska Department of Public Safety
 DATAMASTER dmt: 100403

Date: 10/17/2017
 Time: 09:08:14

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 17090
 EXPIRATION: 02/24/2019

BLANK TEST	0.000	09:09
INTERNAL STANDARD	VERIFIED	09:09
EXTERNAL STANDARD	0.202	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.201	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.201	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.202	09:13
BLANK TEST	0.000	09:14
EXTERNAL STANDARD	0.201	09:14
BLANK TEST	0.000	09:15

Average = 0.2014
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100403

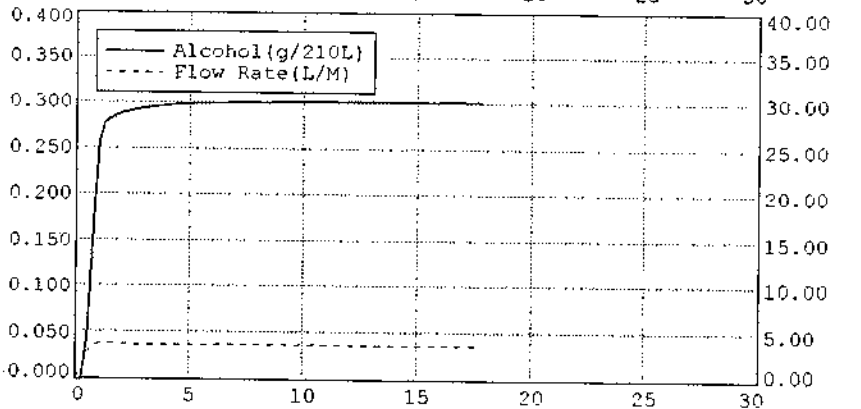
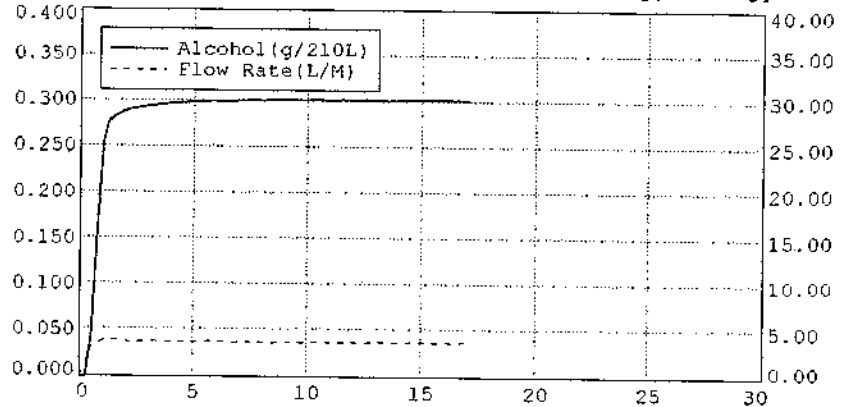
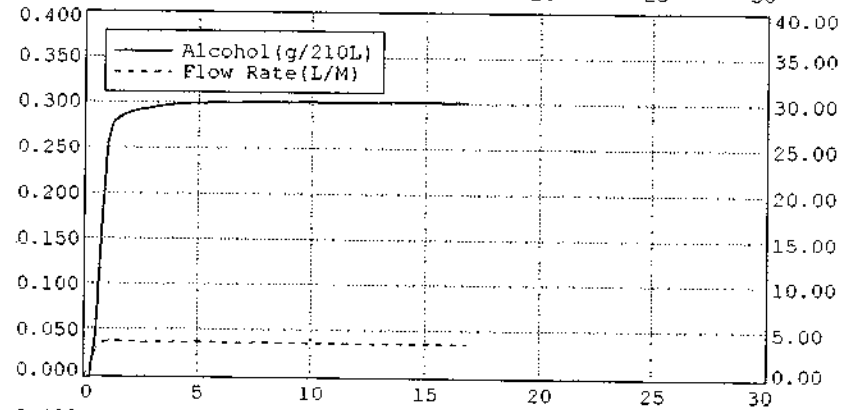
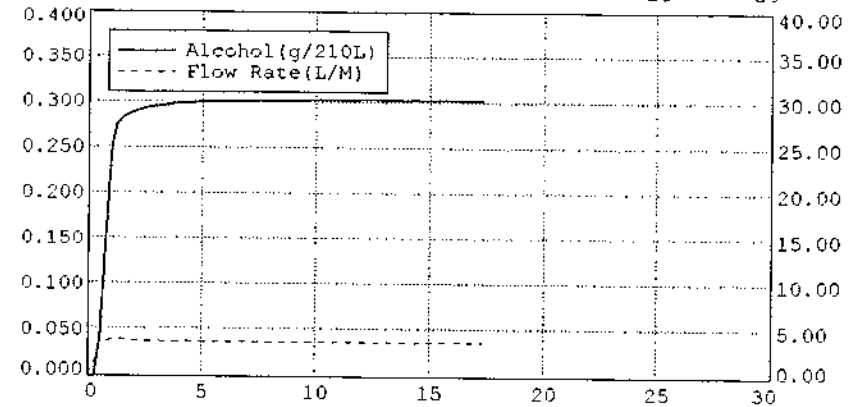
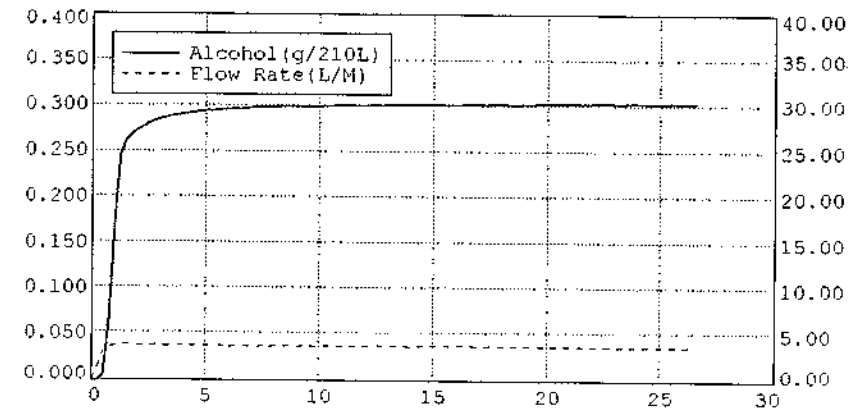
Date: 10/17/2017
 Time: 09:21:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 16410
 EXPIRATION: 12/19/2018

BLANK TEST	0.000	09:22
INTERNAL STANDARD	VERIFIED	09:22
EXTERNAL STANDARD	0.302	09:23
BLANK TEST	0.000	09:24
EXTERNAL STANDARD	0.302	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.301	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.301	09:27
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.301	09:28
BLANK TEST	0.000	09:29

Average = 0.3014
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 10/17/2017
Time: 09:54:31

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAAI

CASE/REPORT: 17-1234
TEST TYPE: TEST

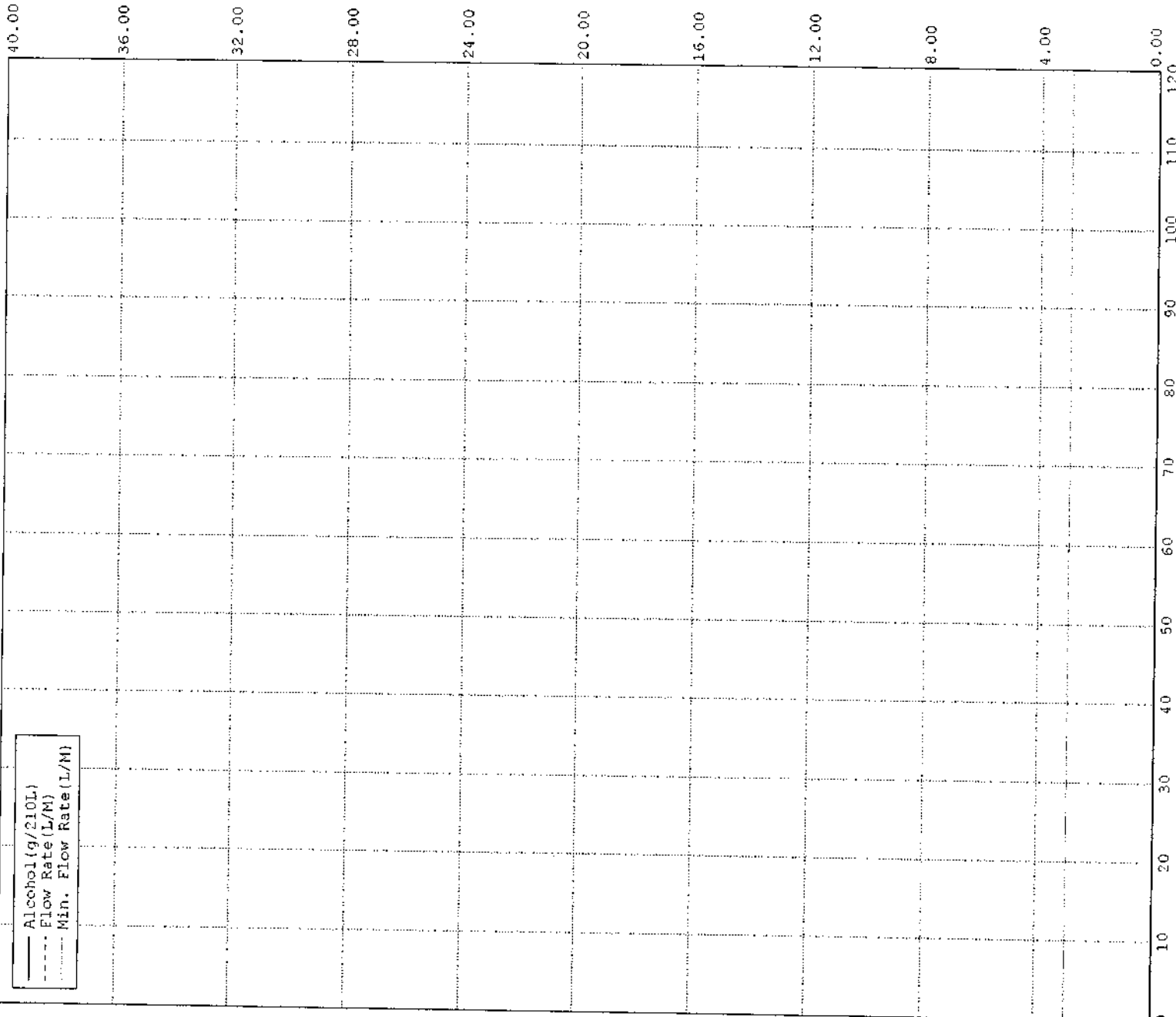
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	10:03
BLANK TEST	0.000	10:03
INTERNAL STANDARD	VERIFIED	10:04
EXTERNAL STANDARD	0.079	10:04
BLANK TEST	0.000	10:05
SUBJECT SAMPLE	INCOMPLETE	10:07

COR

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 10/17/2017
Time: 10:11:51

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAAI

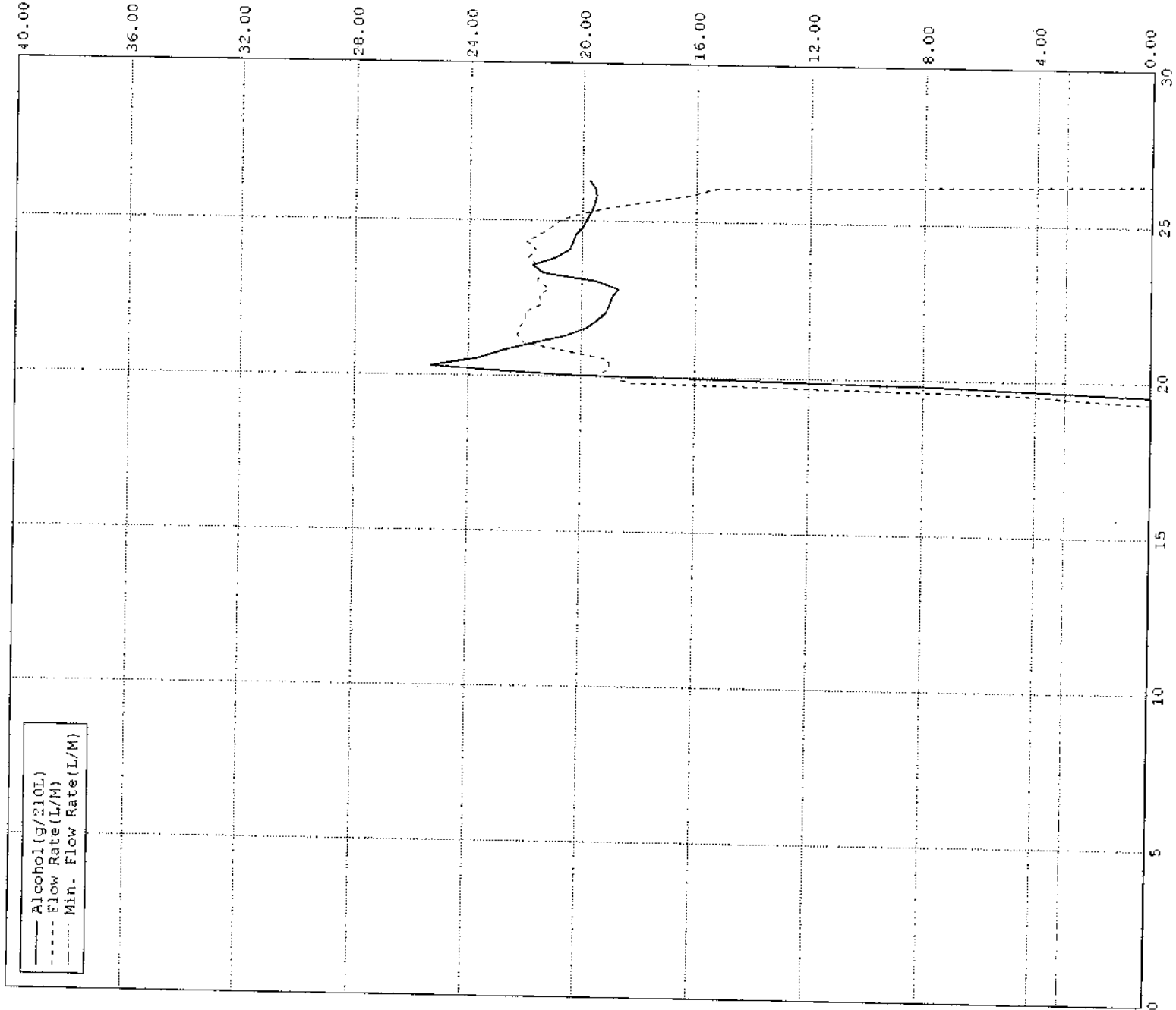
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	10:14
BLANK TEST	0.000	10:14
INTERNAL STANDARD	VERIFIED	10:14
EXTERNAL STANDARD	0.080	10:14
BLANK TEST	0.000	10:15
SUBJECT SAMPLE	INVALID	10:16

CRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 10/17/2017
Time: 09:34:36

SUBJECT NAME:

TEST TEST

LICENSE #: INT-ACETONE

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 17-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.19: 0.078

LOT #: AG634001

EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK

PASSED 09:35

BLANK TEST

0.000

INTERNAL STANDARD

VERIFIED 09:35

Xq = 0.075 (1.63%)

EXTERNAL STANDARD

0.080

X[1] = 0.0796 (0.0007) (0.0018)

BLANK TEST

0.000

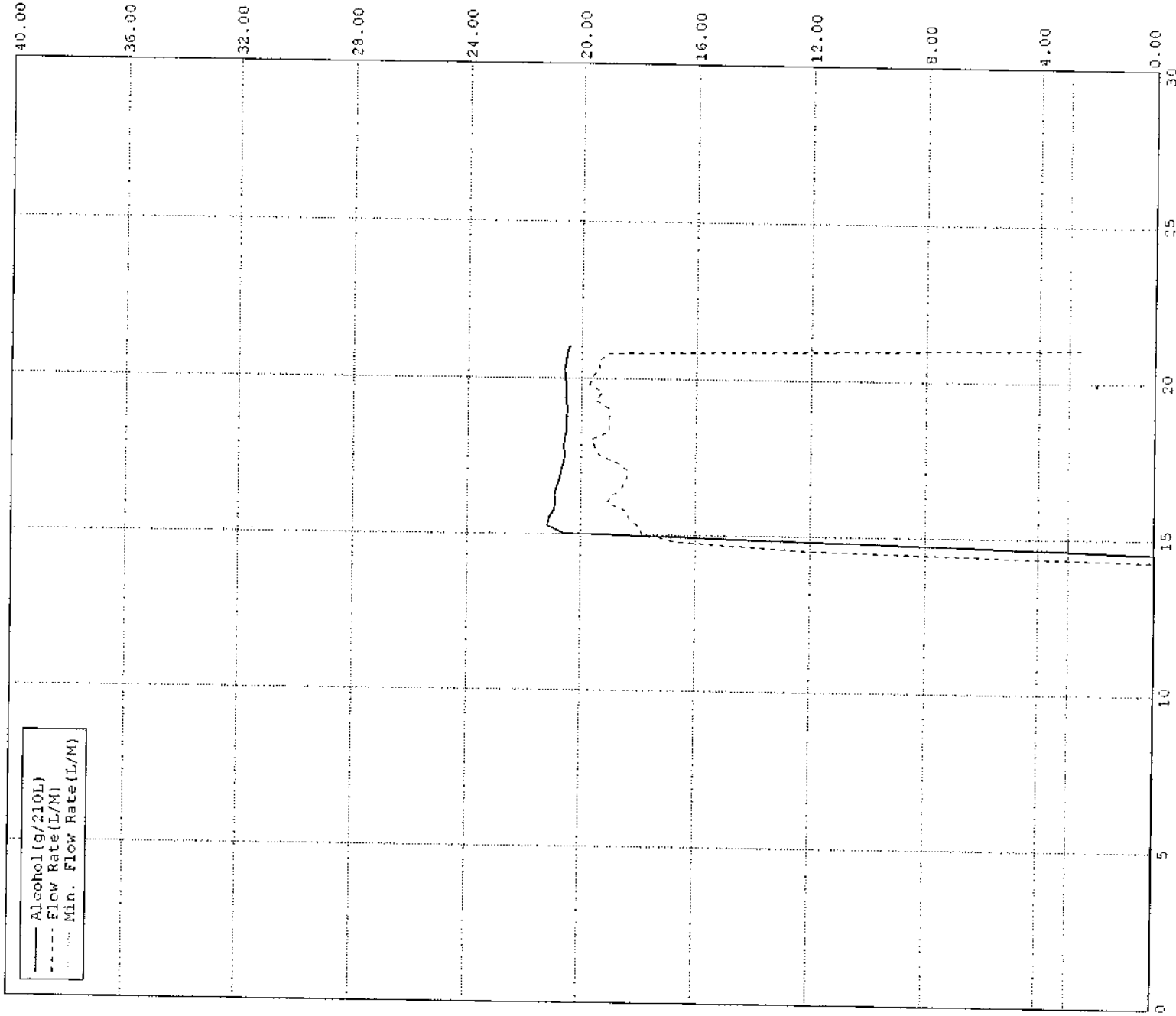
SUBJECT SAMPLE

XXX

09:36

X[1] = 0.1018 (-0.0178) (0.0020)

Interference Detected



CS

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 10/17/2017
Time: 09:40:10

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

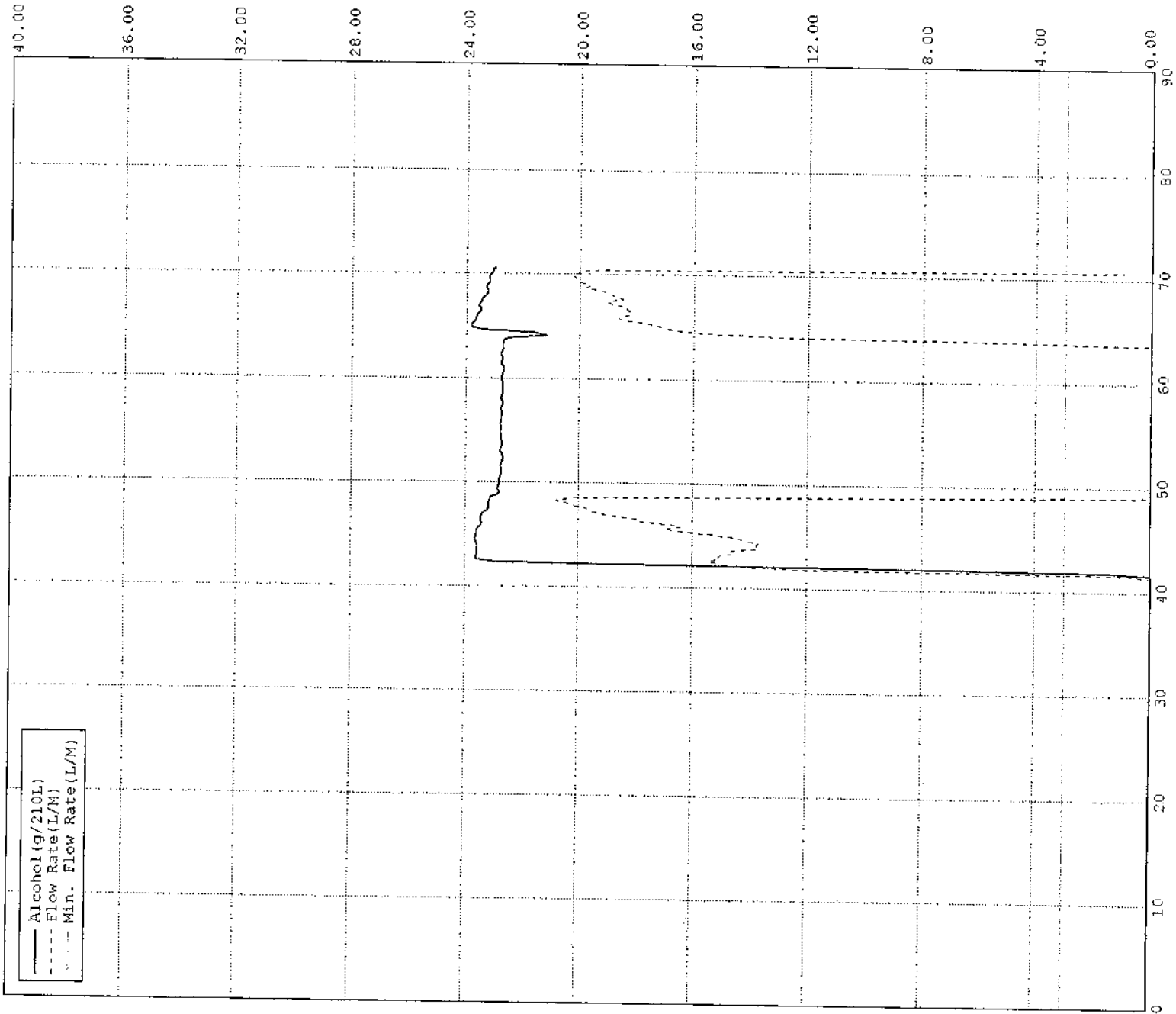
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.19: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	09:41
BLANK TEST	0.000	09:41
INTERNAL STANDARD	VERIFIED	09:41
Xq = 0.075 (1.40%)		
EXTERNAL STANDARD	0.079	09:41
X[1] = 0.0792 (0.0006) (0.0023)		
BLANK TEST	0.000	09:42
SUBJECT SAMPLE	XXX	09:43
X[1] = 0.1144 (-0.0154) (0.0022)		

Interference Detected

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 10/17/2017
Time: 09:46:27

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

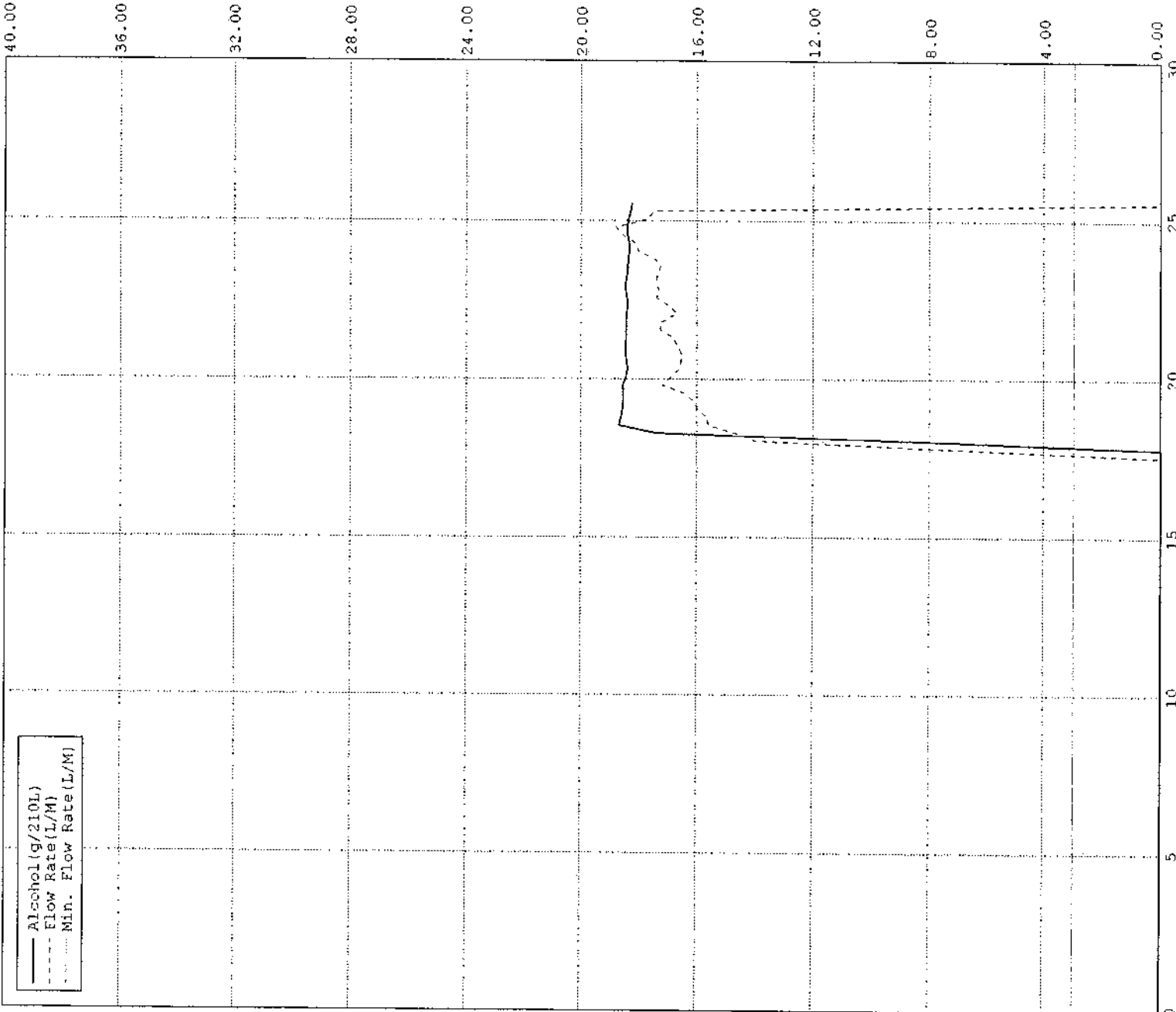
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.19: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	09:47
BLANK TEST	0.000	09:47
INTERNAL STANDARD	VERIFIED	09:47
Xq = 0.076 (2.10%)		
EXTERNAL STANDARD	0.080	09:48
X[1] = 0.0796 (0.0008)	(0.0016)	
BLANK TEST	0.000	09:49
SUBJECT SAMPLE (Vol=2.14L)	0.091	09:49
X[1] = 0.0913 (0.0001)	(0.0016)	
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.079	09:50
X[1] = 0.0789 (0.0005)	(0.0010)	
BLANK TEST	0.000	09:51

Filter 2 = 0.0007

Filter 3 = 0.0017



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 10/17/2017
Time: 10:20:26

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

DEPT/AGENCY:
AAA1

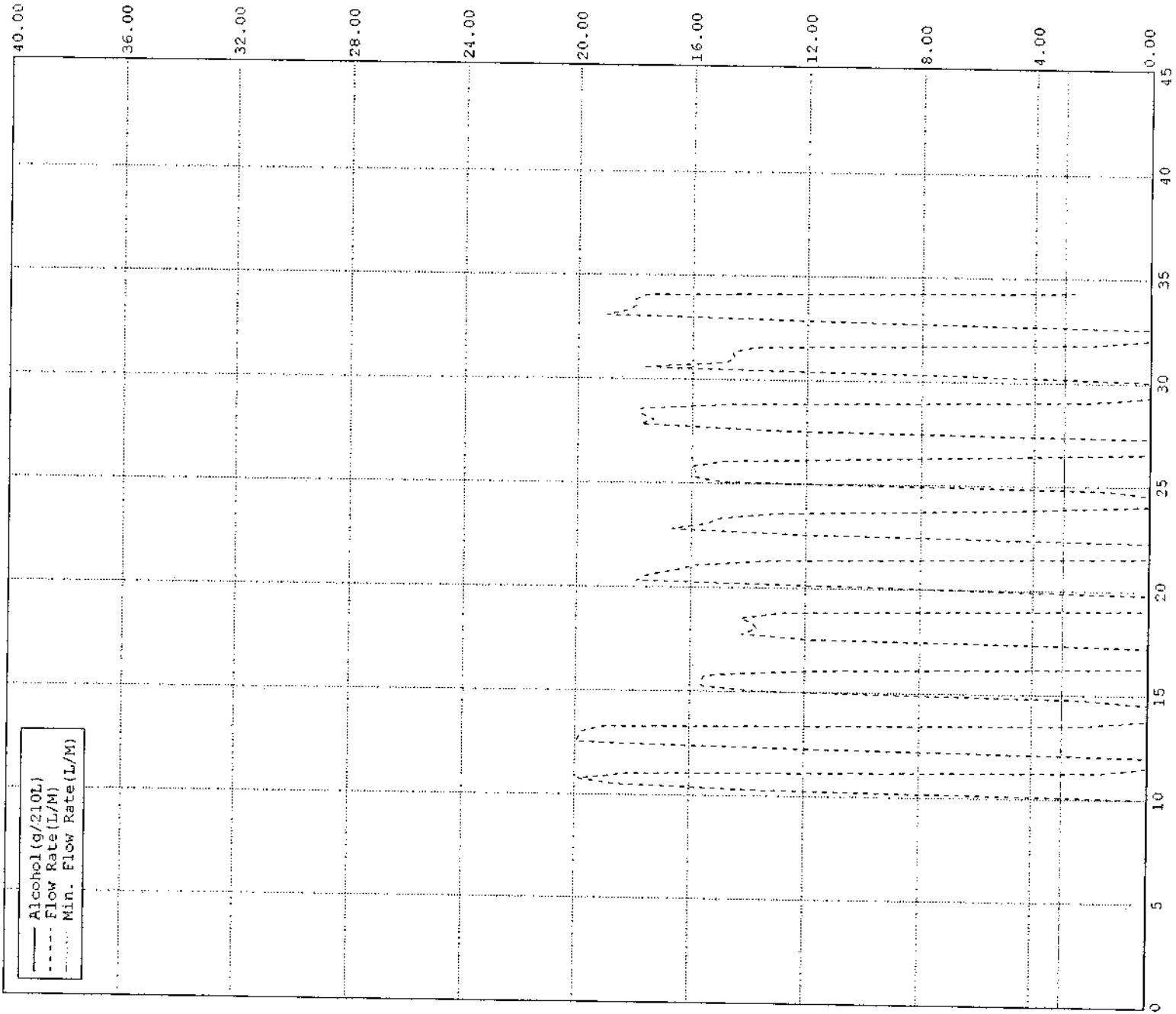
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 10:22
BLANK TEST 0.000 10:23
INTERNAL STANDARD VERIFIED 10:23
EXTERNAL STANDARD 0.080 10:23
BLANK TEST 0.000 10:24
SUBJECT SAMPLE XXX 10:24

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 10/17/2017
Time: 10:31:49

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

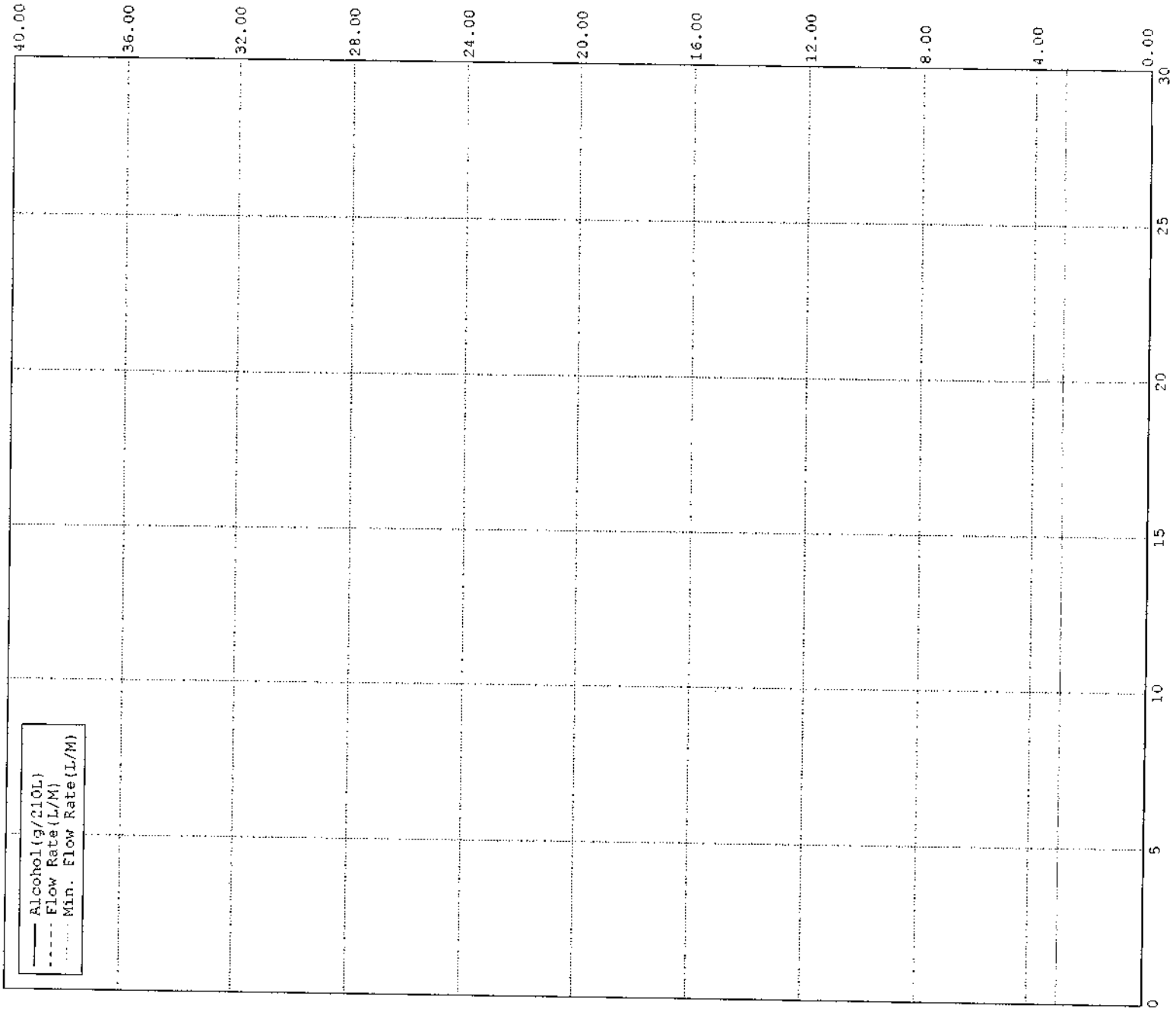
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.17: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 10:32
BLANK TEST 0.000 10:33
INTERNAL STANDARD VERIFIED 10:33
EXTERNAL STANDARD 0.080 10:33
BLANK TEST 0.000 10:34

RFI DETECTED

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100403

Date: 10/17/2017
Time: 10:49:15

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	10:50
BLANK TEST	0.000	10:50
INTERNAL STANDARD	VERIFIED	10:50
EXTERNAL STANDARD	0.081	10:50
BLANK TEST	0.000	10:51
SUBJECT SAMPLE (Vol=2.06L)	0.000	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.080	10:53
BLANK TEST	0.000	10:54

COB

