

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100423 Analyst Colleen O'Bryant Start Date 11/13/12

Diagnostic Test (attached)

1. Voltage Checks

- a. Adjust voltages, if needed
- i. Lamp (2.6V Maximum)
- ii. Bias (80V)
- 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 1500 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013
- ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013
- iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2014
- iv. 0.100g/210L Mnf ILMO Lot 07611000A3 Exp 03/01/2013
- v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/2013
1. Simulator S/N DR4162 Date Calibrated 10/09/2012
- vi. 0.300g/210L Mnf Guth Lot 12050 Exp 03/21/2014
1. Simulator S/N DR4178 Date Calibrated 02/21/2013

5. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference

- i. Acetone - Mnf Guth Lot 11100 Level 0.10 Exp 07/06/13
1. Simulator S/N DR5298 Date Calibrated 10/08/2012
- ii. Isopropanol - Mnf Guth Lot 11250 Level 0.10 Exp 10/06/13
1. Simulator S/N SD1202 Date Calibrated 10/09/2012
- iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 04/25/2013 ^{10/24/13}
1. Simulator S/N SD1176 Date Calibrated 10/09/2012

d. RFI

6. Verify stylus is calibrated
7. Verify card reader is functional
8. Reset Options
9. Clear Memory
10. Verification of Calibration
11. Non-Drinking Subject Test (attached)
12. Upload
13. Update agency information and polling status in DM Host Calling Program

End Date 11/15/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100423

Date: 11/13/2012
Time: 10:29:14

VERSIONS
DMT: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 47.5°C PASSED

PUMP INFO

Flow Rate = 4.437 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

Technician Screen

DATAMASTER dnt: 100423

Date: 11/13/2012

Time: 10:44 AM

Temperatures (°C)

Sample Cell: 48.6°C

Breath Tube: 48.0°C

Current Barometer 29.8 in

Volume (Ltr) 1.49

Settings

Lamp: 1.81 V

Bias: 80 V

Cooler: 1.63 V

Chopper: 548 Hz

Voltages (V)

Flow: 1.06 V

Detector: -0.072 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dme: 100423

Date: 08/25/2011
Time: 12:00:13

OPERATOR NAME:
COLLEEN S O'BRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 11050
EXPIRATION: 04/06/2013

Ca	=	0.1000		
CAL	=	1.003840	0.800	<= CAL < 1.200
b1	=	0.0004	0.0000	<= b1 < 0.0040
b2	=	0.0028	0.0010	<= b2 < 0.0100
b3	=	0.0001	0.0000	<= b3 < 0.0040
Xq	=	0.0925	0.0500	<= Xq < 0.2000
a21	=	1.149484	1.050	<= a21 < 1.300
a31	=	0.544067	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATABASE# dnt: 100423

Date: 11/13/2012
Time: 10:47:00

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

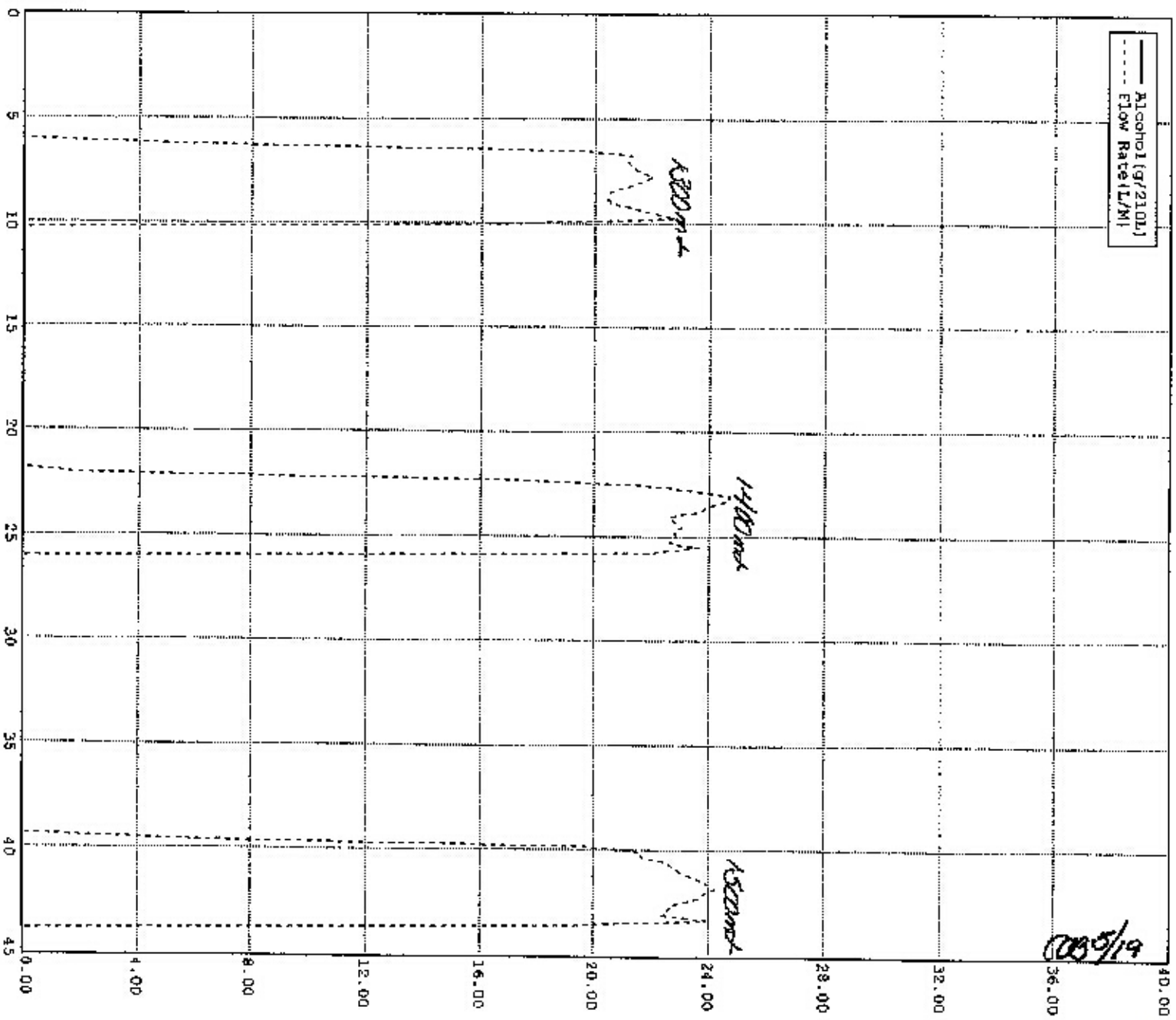
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.77: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	10:47
INTERNAL STANDARD	VERIFIED	10:48
EXTERNAL STANDARD	0.080	10:48
BLANK TEST	0.000	10:49
SUBJECT SAMPLE	0.000	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.080	10:51
BLANK TEST	0.000	10:52

OK



LINEARITY CHECK

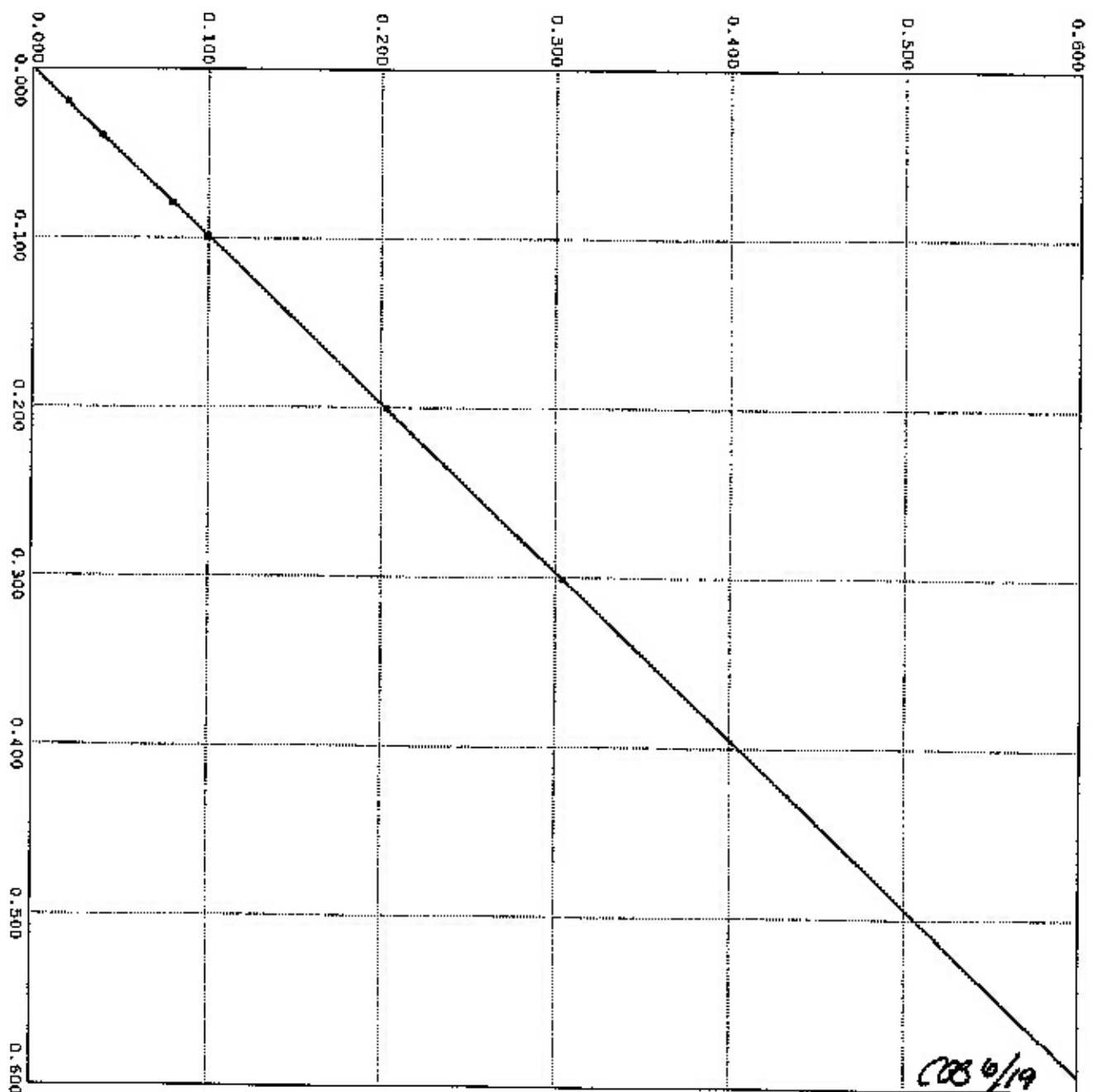
Alaska Department of Public Safety
 PARAMASTER dnt: 100423

Date: 11/13/2012
 Time: 10:57:08

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0211	0.0004
0.039	0.0406	0.0002
0.079	0.0803	0.0004
0.099	0.1006	0.0001
0.200	0.2039	0.0003
0.300	0.3051	0.0002

SLOPE = 1.013219
 R² = 0.999972



Colleen

11/15/12

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

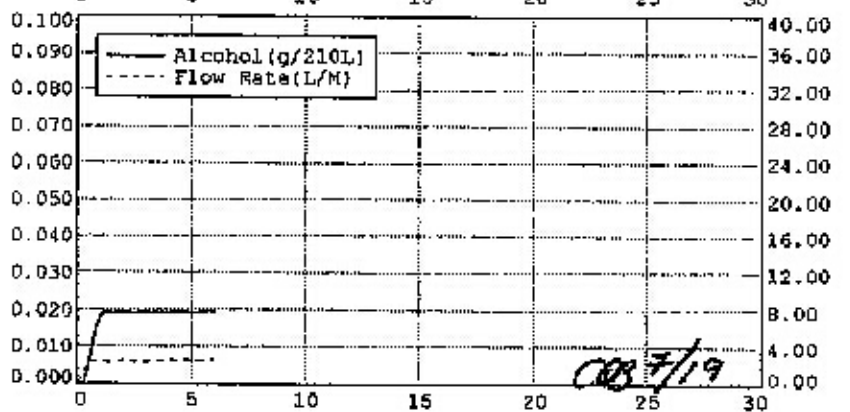
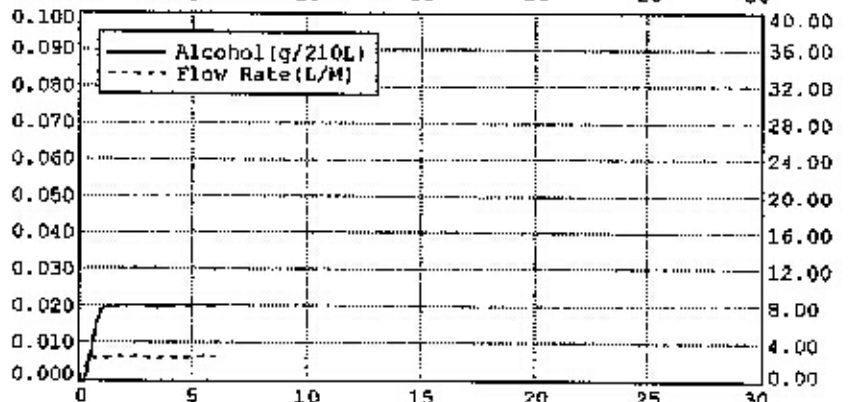
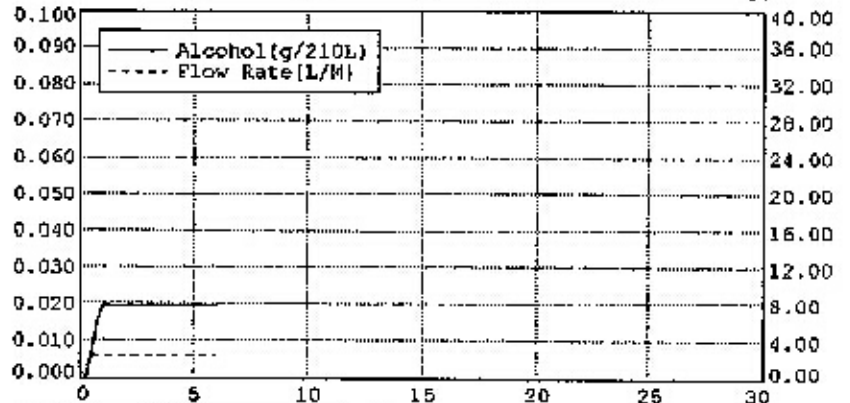
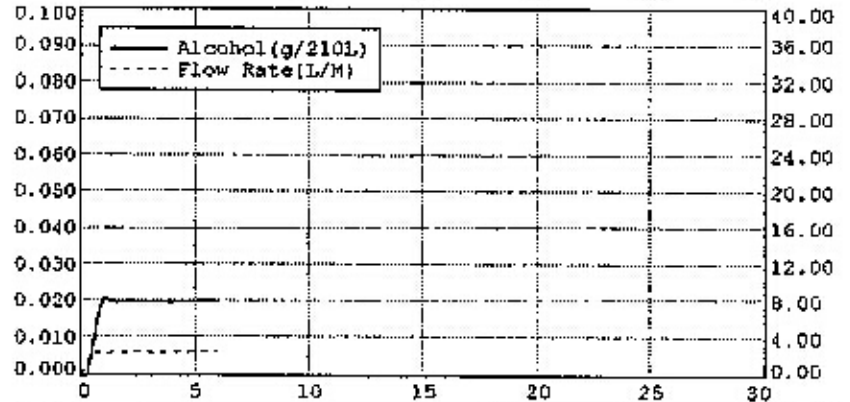
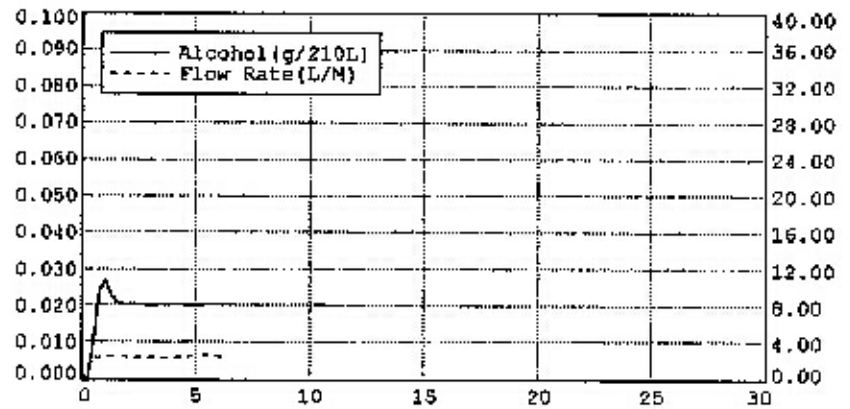
Date: 11/13/2012
 Time: 10:57:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.77: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:58
INTERNAL STANDARD	VERIFIED	10:58
EXTERNAL STANDARD	0.021	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.021	10:59
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.020	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.021	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.020	11:02
BLANK TEST	0.000	11:03

Average = 0.0211
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

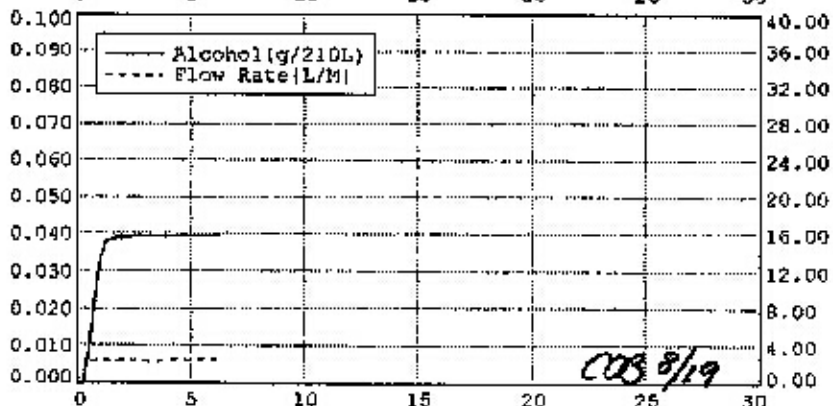
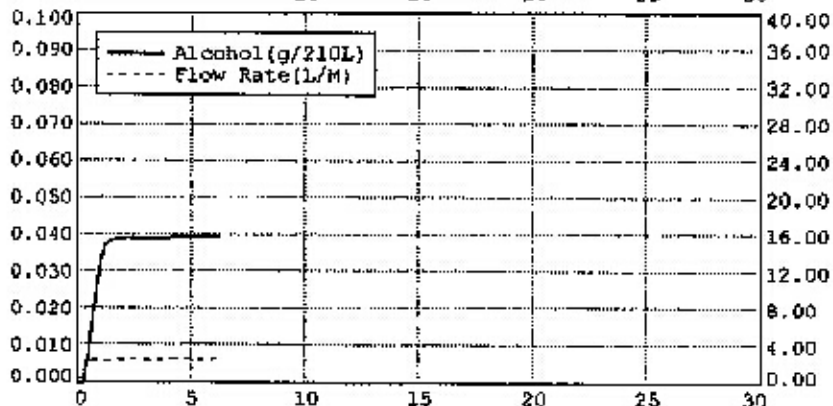
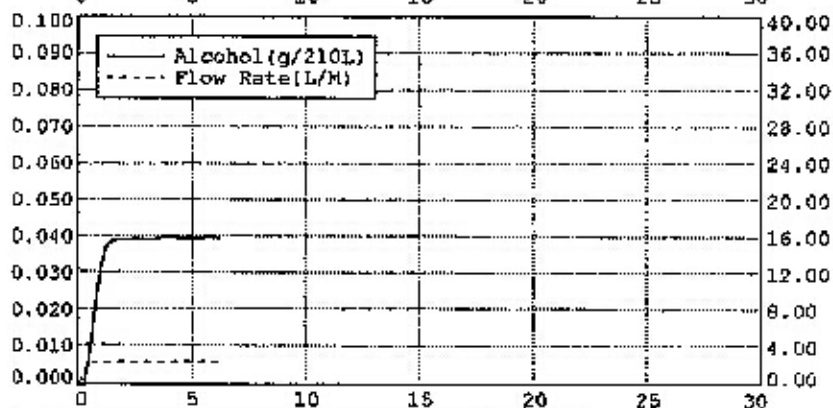
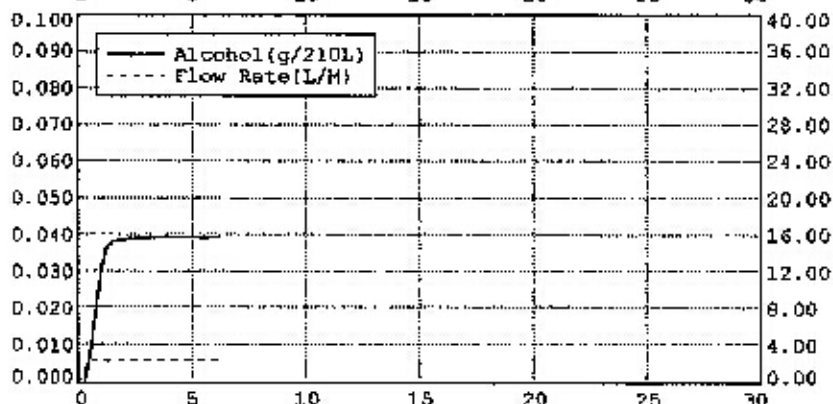
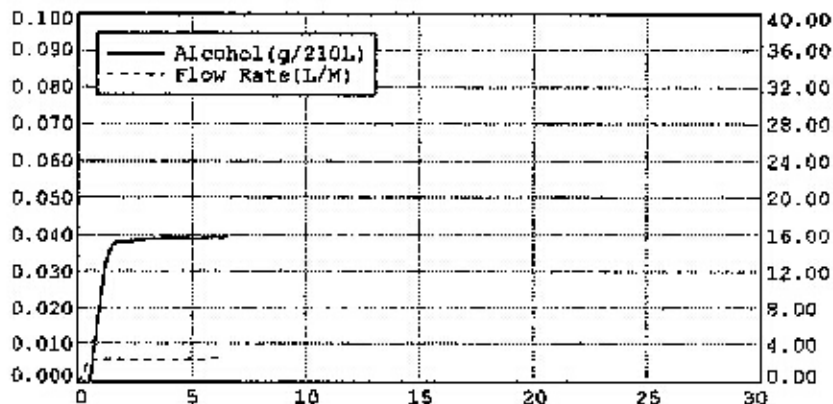
Date: 11/13/2012
 Time: 13:49:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.70: 0.039
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:50
EXTERNAL STANDARD	0.040	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.040	13:52
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.040	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.040	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.040	13:55
BLANK TEST	0.000	13:56

Average = 0.0406
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100423

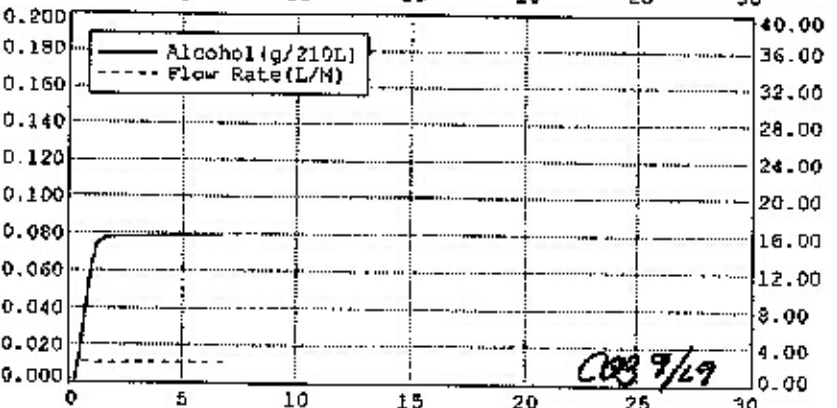
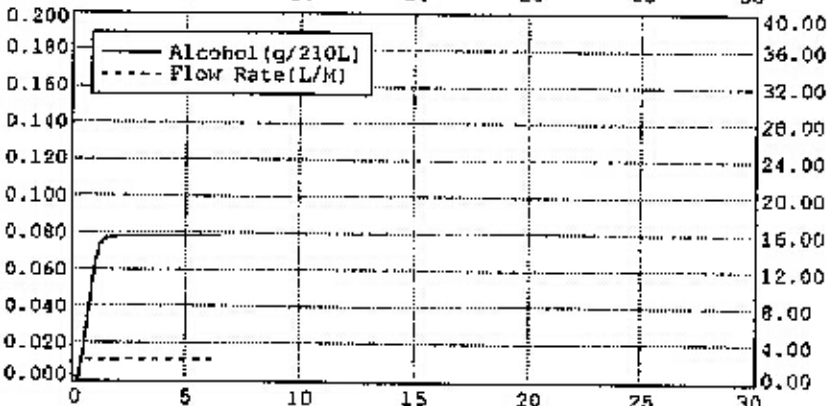
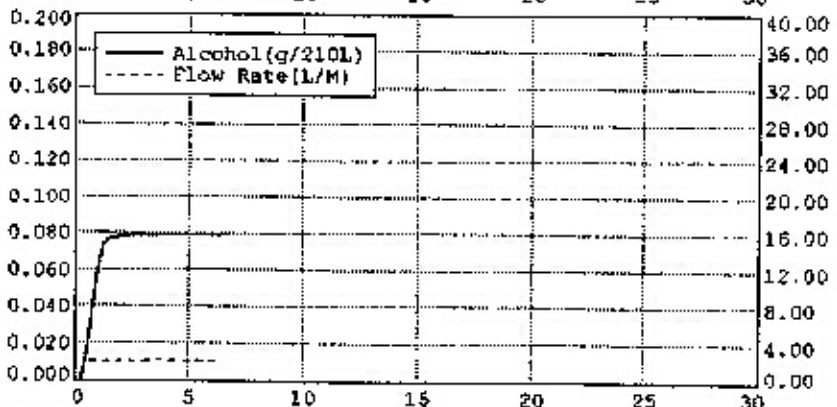
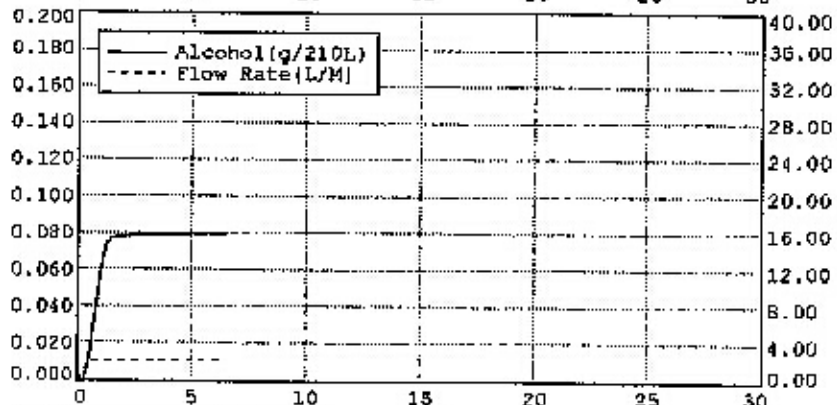
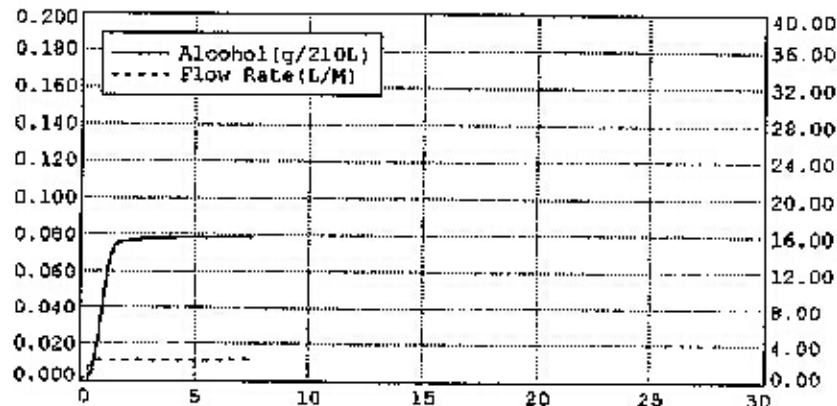
Date: 11/13/2012
 Time: 13:57:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.71: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	13:58
INTERNAL STANDARD	VERIFIED	13:58
EXTERNAL STANDARD	0.079	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.080	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.080	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.080	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.080	14:02
BLANK TEST	0.000	14:03

Average = 0.0803
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

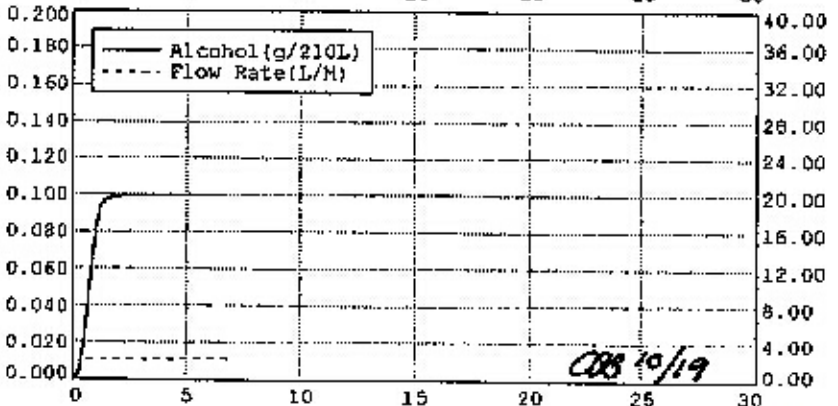
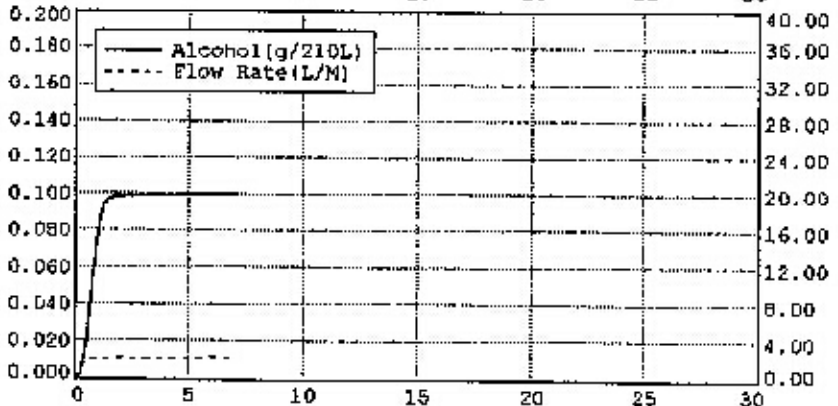
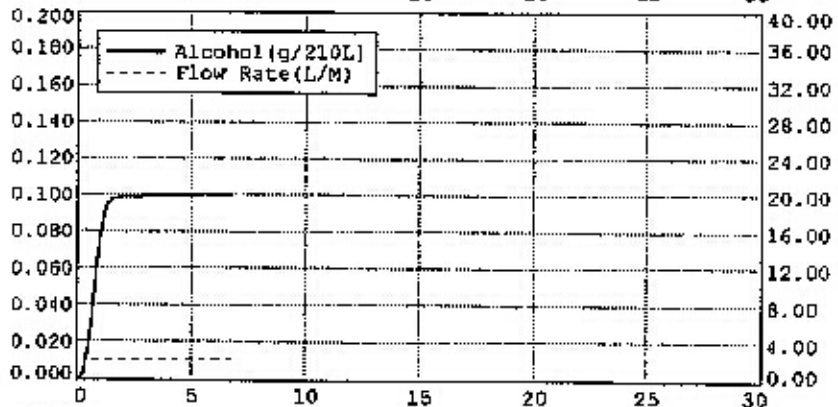
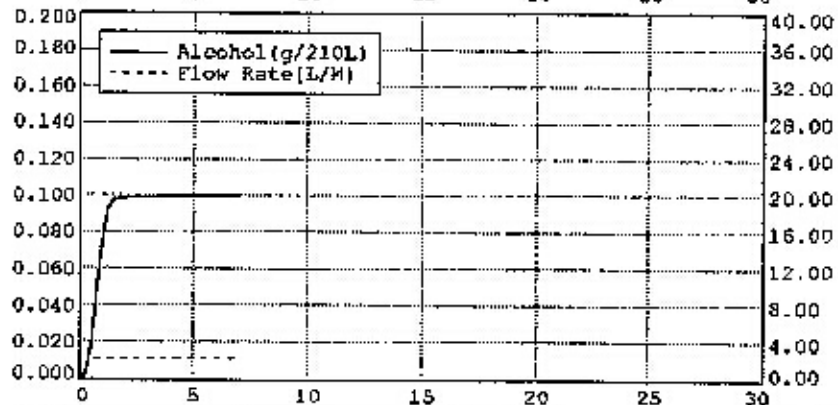
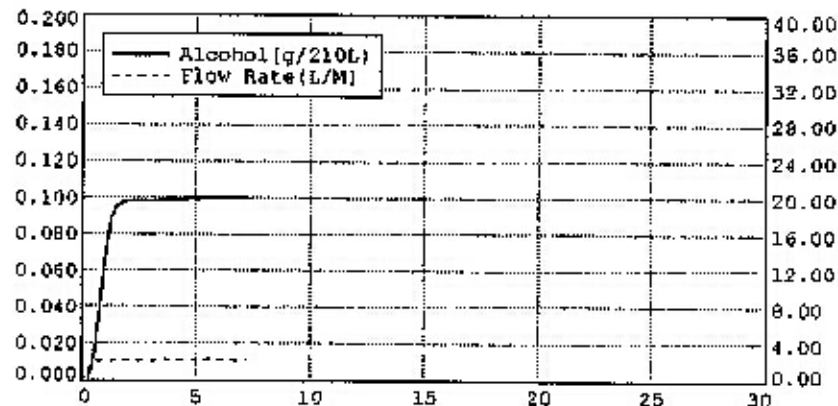
Date: 11/13/2012
 Time: 14:05:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.71: 0.099
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:06
INTERNAL STANDARD	VERIFIED	14:06
EXTERNAL STANDARD	0.100	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.100	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.100	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.100	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.100	14:11
BLANK TEST	0.000	14:11

Average = 0.1006
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

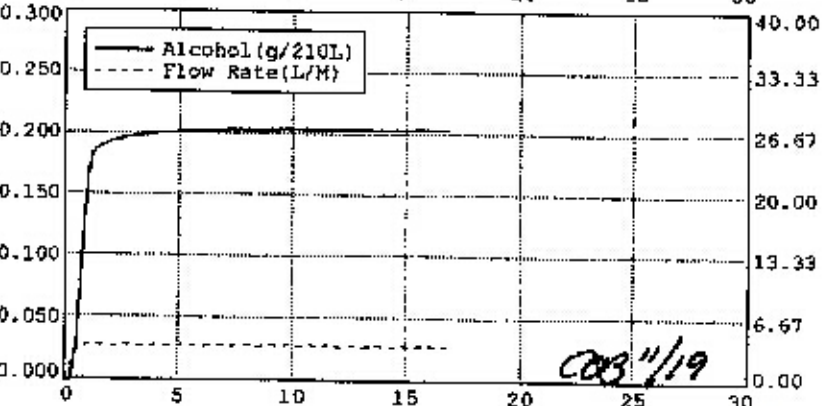
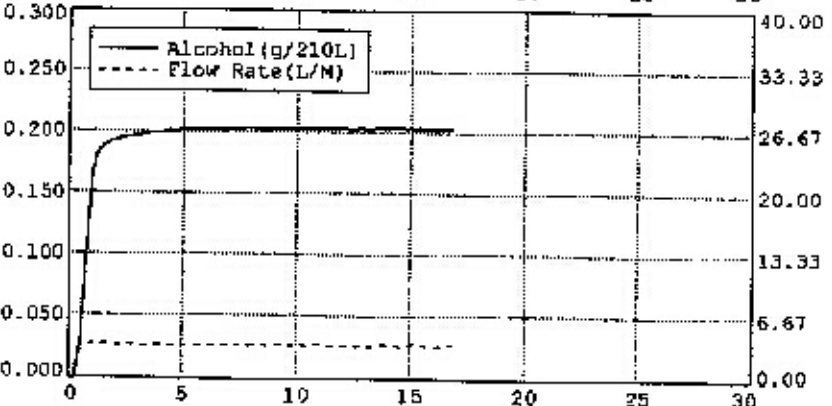
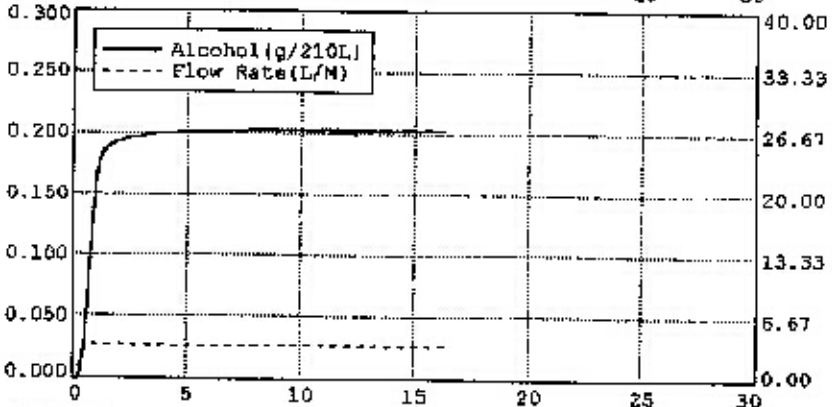
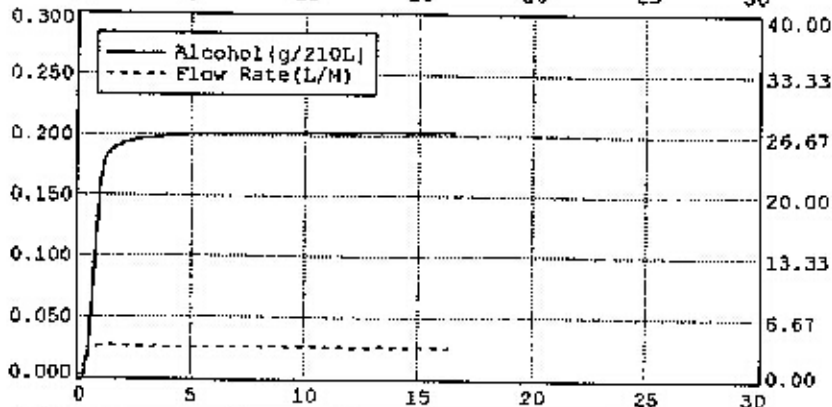
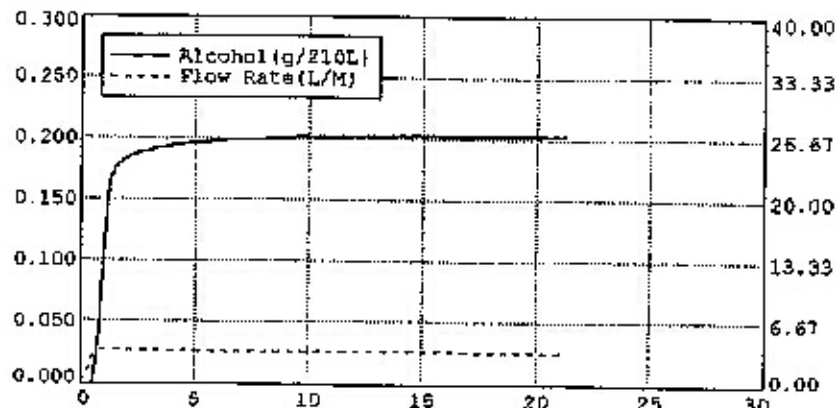
Alaska Department of Public Safety
 DATAMASTER dnt: 100423

Date: 11/13/2012
 Time: 14:14:06

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 11120
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:15
EXTERNAL STANDARD	0.203	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.203	14:17
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.203	14:18
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.203	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.204	14:20
BLANK TEST	0.000	14:21

Average = 0.2039
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

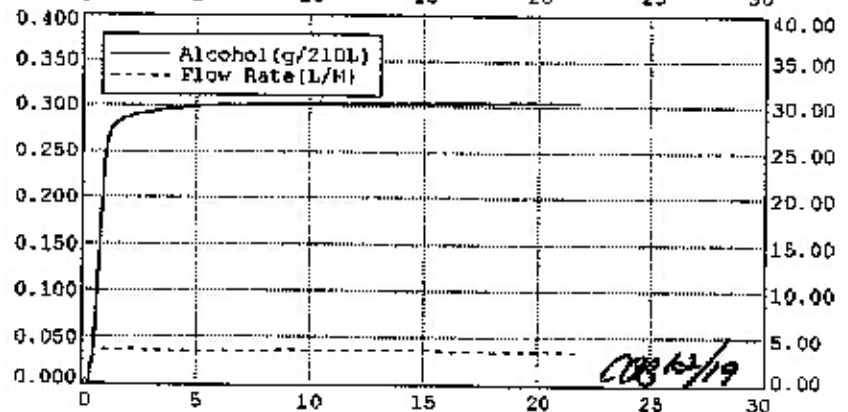
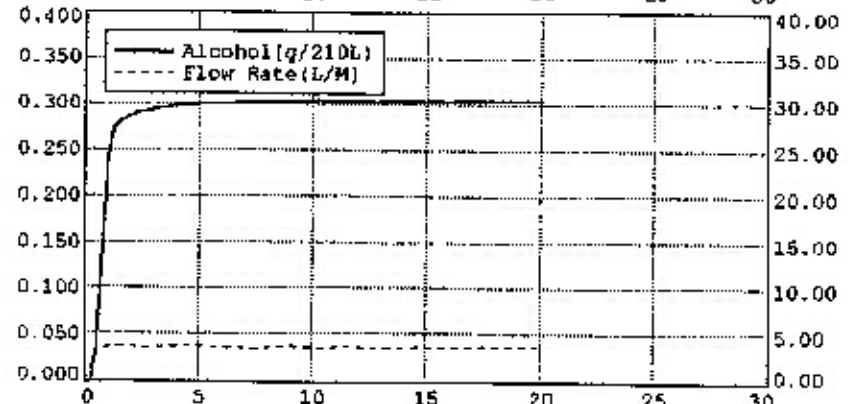
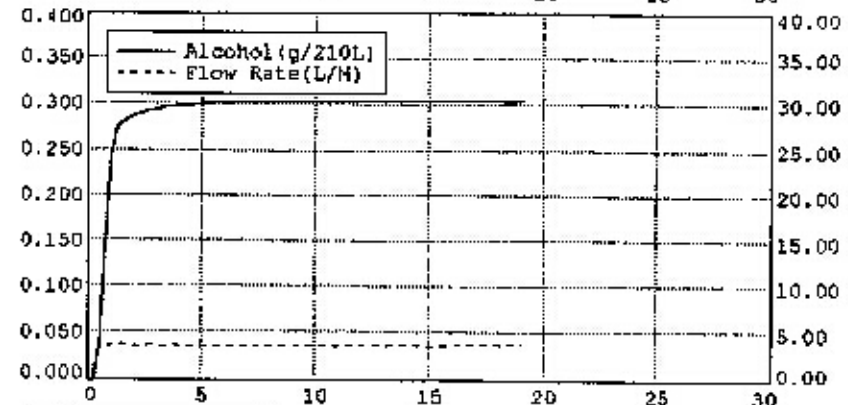
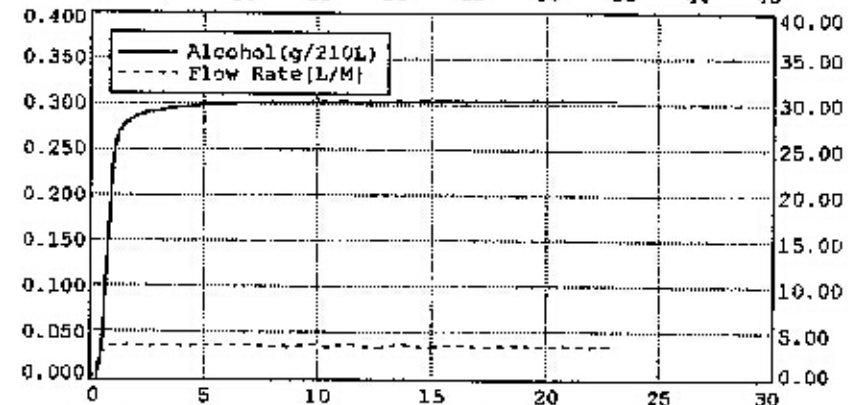
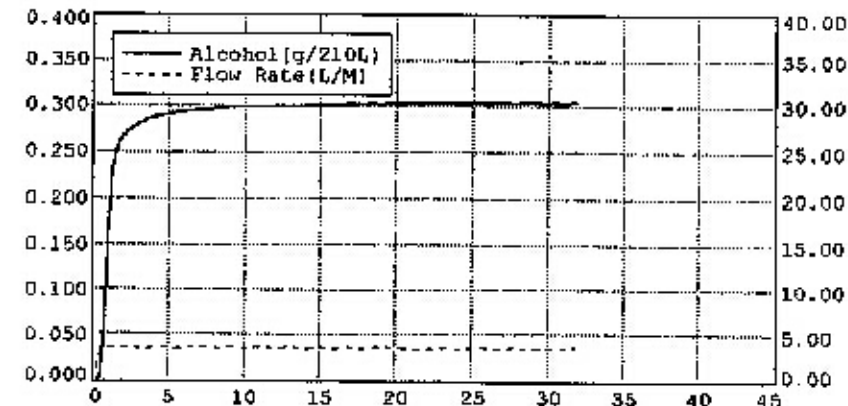
Date: 11/13/2012
 Time: 14:22:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 12650
 EXPIRATION: 03/21/2014

BLANK TEST	0.000	14:26
INTERNAL STANDARD	VERIFIED	14:26
EXTERNAL STANDARD	0.305	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.305	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.305	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.305	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.304	14:32
BLANK TEST	0.000	14:33

Average = 0.3051
 Std Dev = 0.0002



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

Date: 11/13/2012
 Time: 14:39:25

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

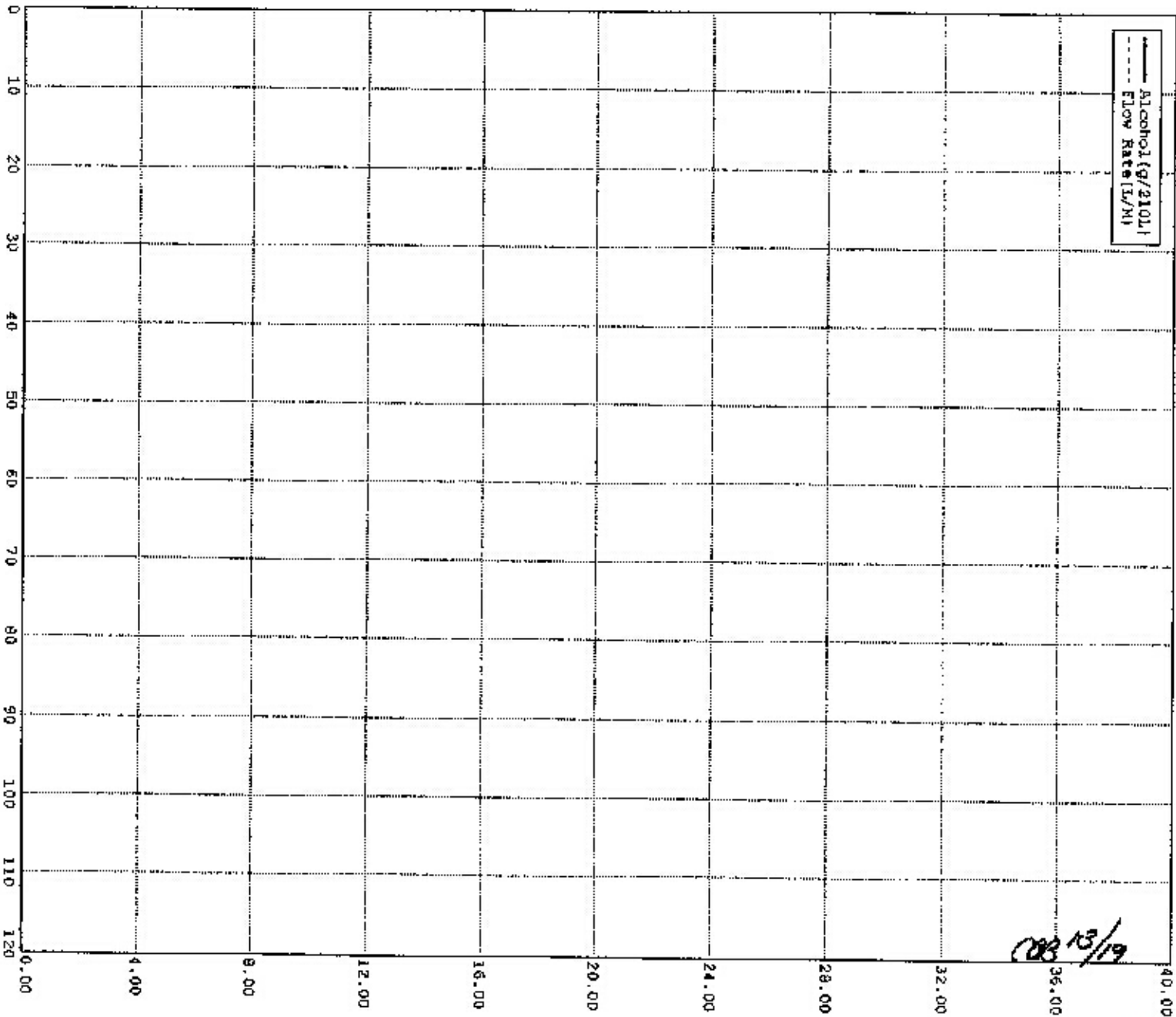
OPERATOR NAME:
 COLLIER S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.69: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:40
BLANK TEST	0.000	14:40
INTERNAL STANDARD	VERIFIED	14:40
EXTERNAL STANDARD	0.079	14:40
BLANK TEST	0.000	14:41
SUBJECT SAMPLE	INCOMPLETE	14:43

Colleen



SUBJECT TEST

Alaska Department of Public Safety
DATABASE dnt: 100423

Date: 11/13/2012
Time: 14:45:40

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

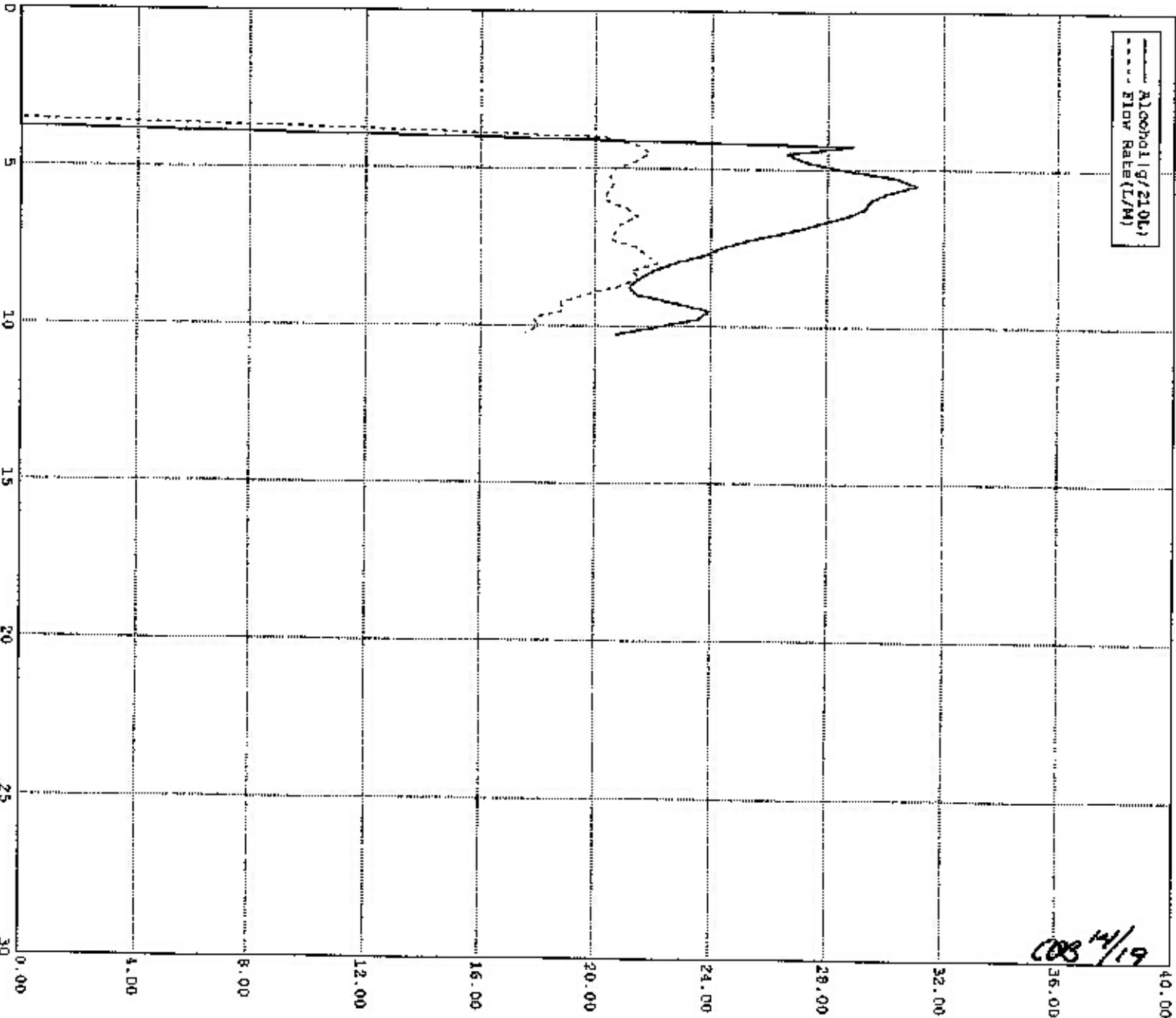
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.68: 0.079
LOF #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:46
BLANK TEST	0.000	14:46
INTERNAL STANDARD	VERIFIED	14:46
EXTERNAL STANDARD	0.079	14:47
BLANK TEST	0.000	14:48
SUBJECT SAMPLE	INVALID	14:48

Colleen



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100423

Date: 11/13/2012
 Time: 15:15:21

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACESTONE

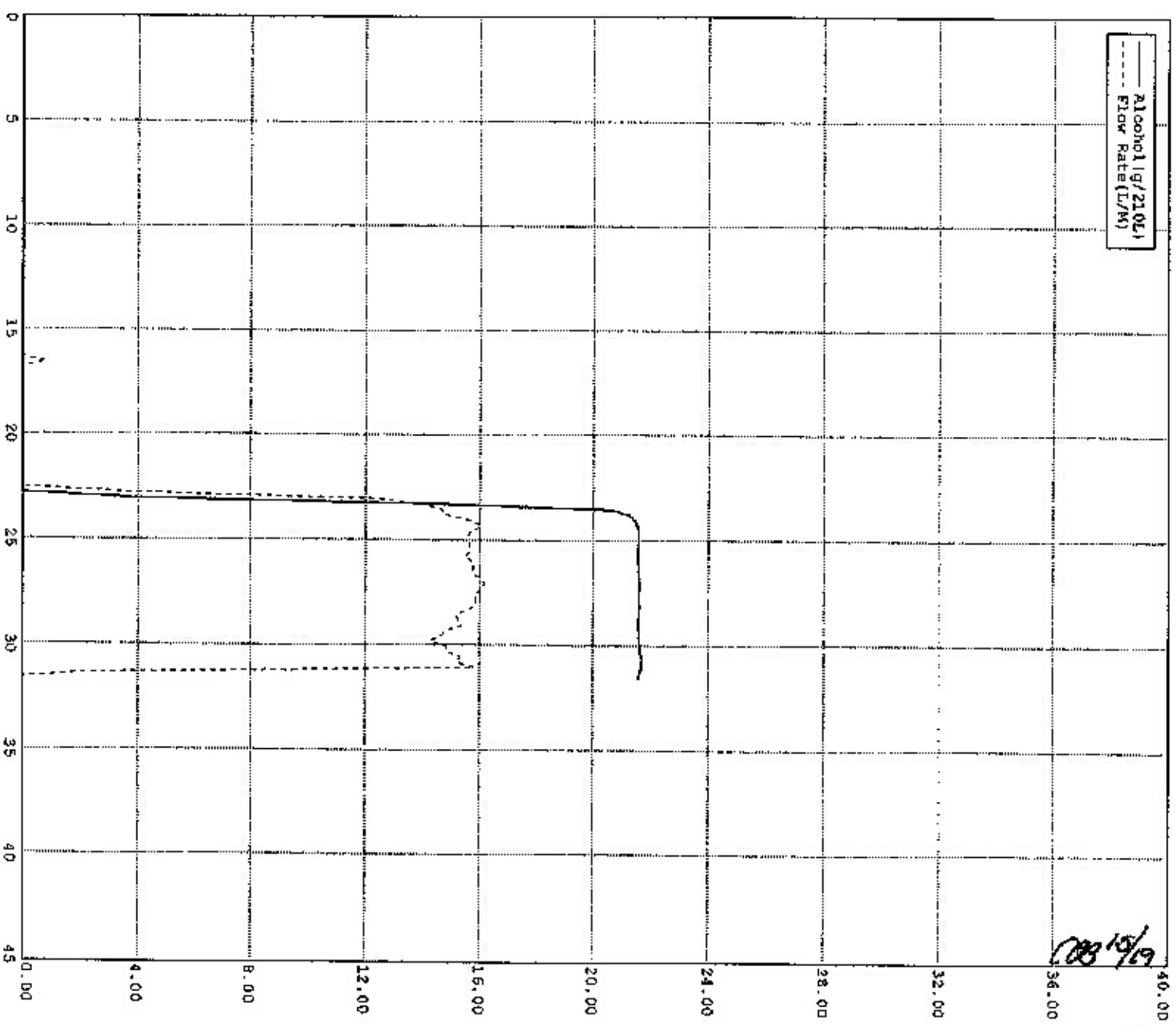
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAL
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AM: 29.68: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:16
BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
Xq = 0.093 (0.668)		
EXTERNAL STANDARD	0.080	15:16
X[1] = 0.0801 (0.0007)	(0.0033)	
BLANK TEST	0.000	15:17
SUBJECT SAMPLE	INTERFERENCE	15:18
X[1] = 0.1079 (-0.0207)	(0.0011)	

Colleen



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE# dnt: 100423

Date: 11/13/2012
 Time: 14:50:21

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-1PA

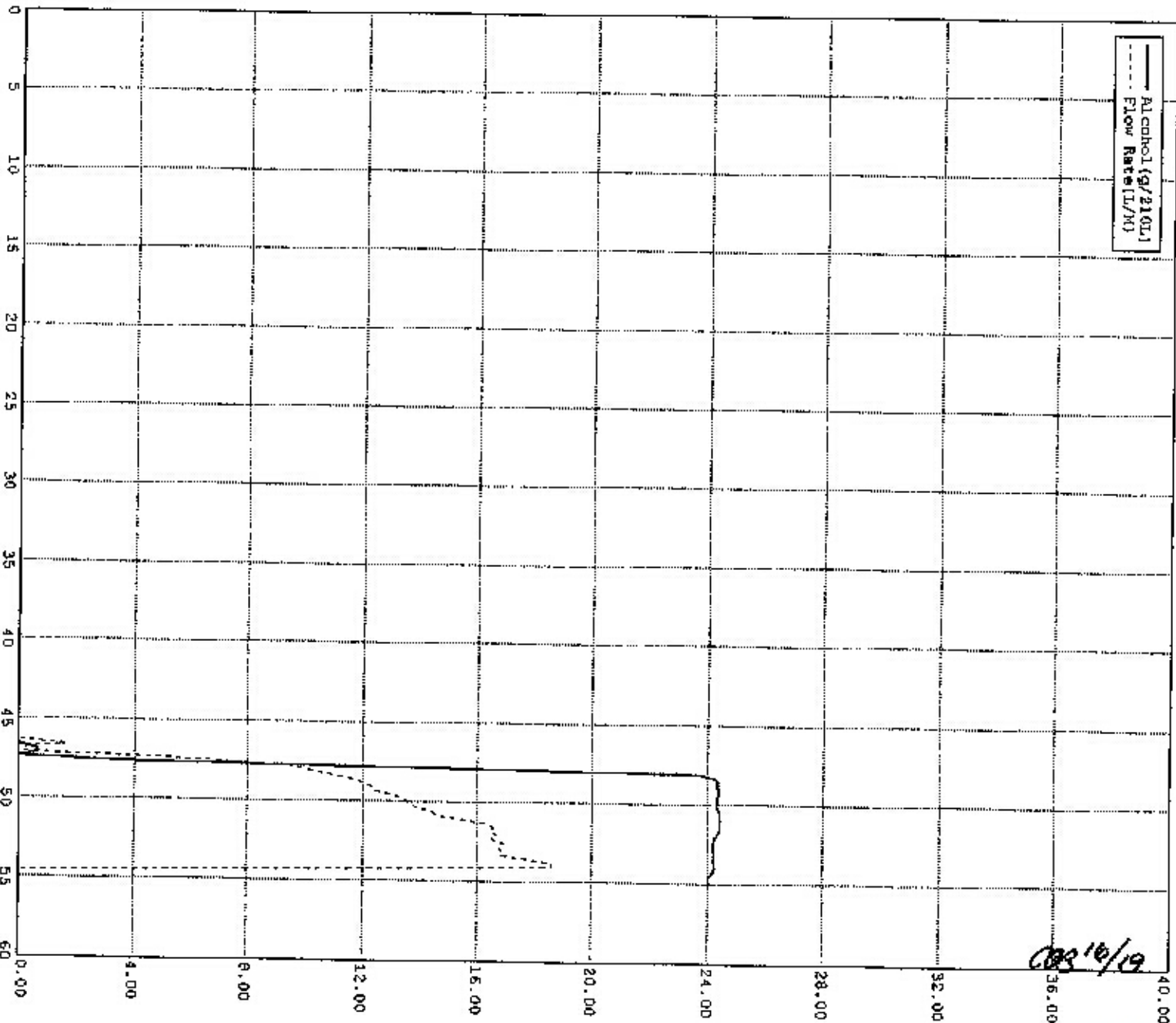
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.68: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:51
BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:51
XQ = 0.092 (0.19%)		
EXTERNAL STANDARD	0.079	14:51
X[1] = 0.0793 (0.0000)	(0.0027)	
BLANK TEST	0.000	14:52
SUBJECT SAMPLE	INTERFERENCE	14:53
X[1] = 0.1201 (-0.0235)	(0.0017)	

Colleen



SUBJECT TEST

Alaska Department of Public Safety
 DATAENTER dmt: 100423

Date: 11/13/2012
 Time: 14:56:28

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEGATIVE

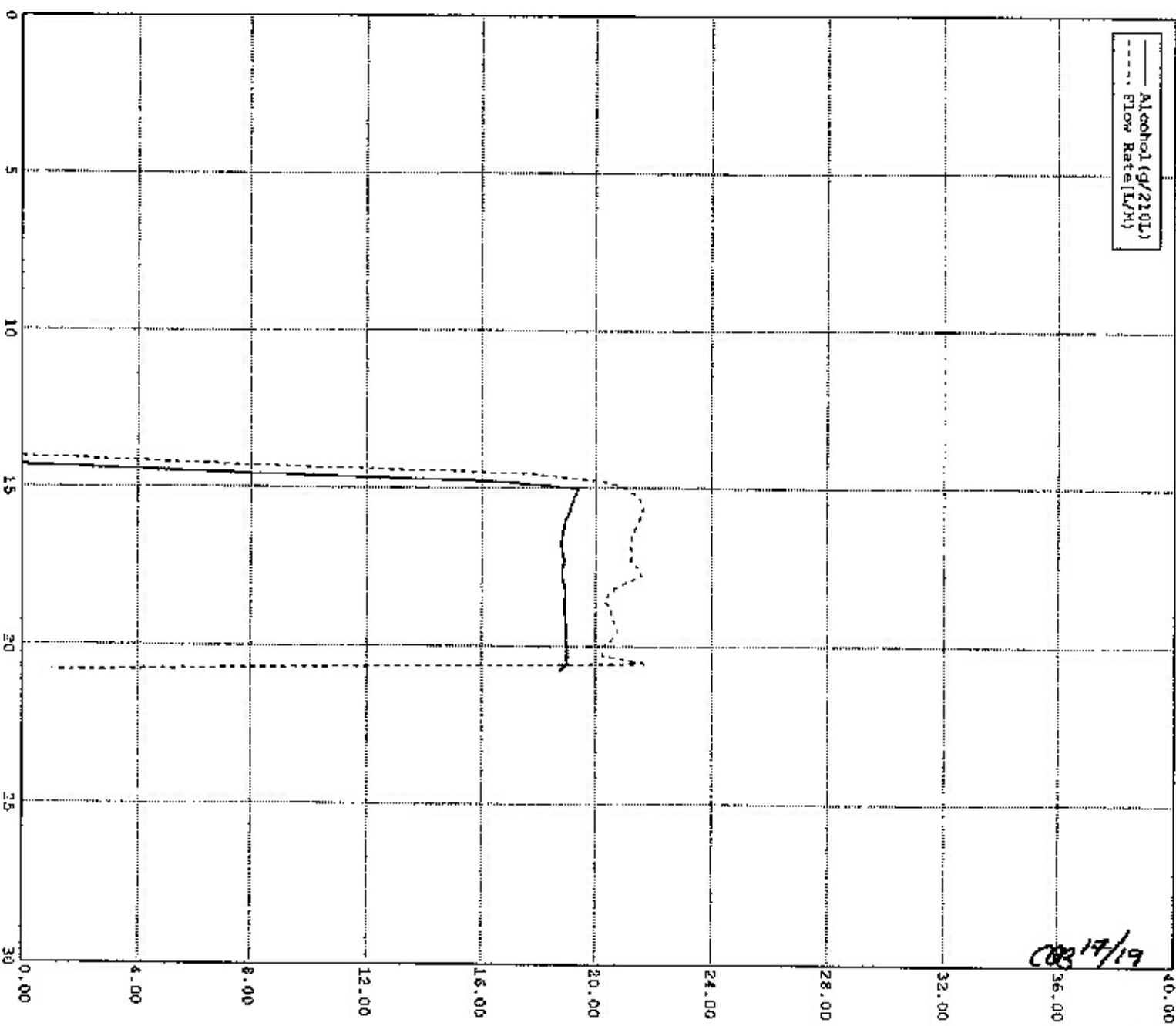
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAA
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.68: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:57
BLANK TEST	0.000	14:57
INTERNAL STANDARD	VERIFIED	14:57
X ₁ = 0.093 (0.098)	0.079	14:58
EXTERNAL STANDARD		
X[1] = 0.0799 (0.0004)	0.0028	14:59
BLANK TEST	0.000	14:59
SUBJECT SAMPLE (Vol=2.21L)	0.093	14:59
X[1] = 0.0936 (-0.0015)	0.0008	15:00
BLANK TEST	0.000	15:00
EXTERNAL STANDARD		
X[1] = 0.079 (0.0023)	0.079	15:00
BLANK TEST	0.000	15:01

Colleen



CS 17/19

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100423

Date: 11/13/2012
 Time: 15:25:49

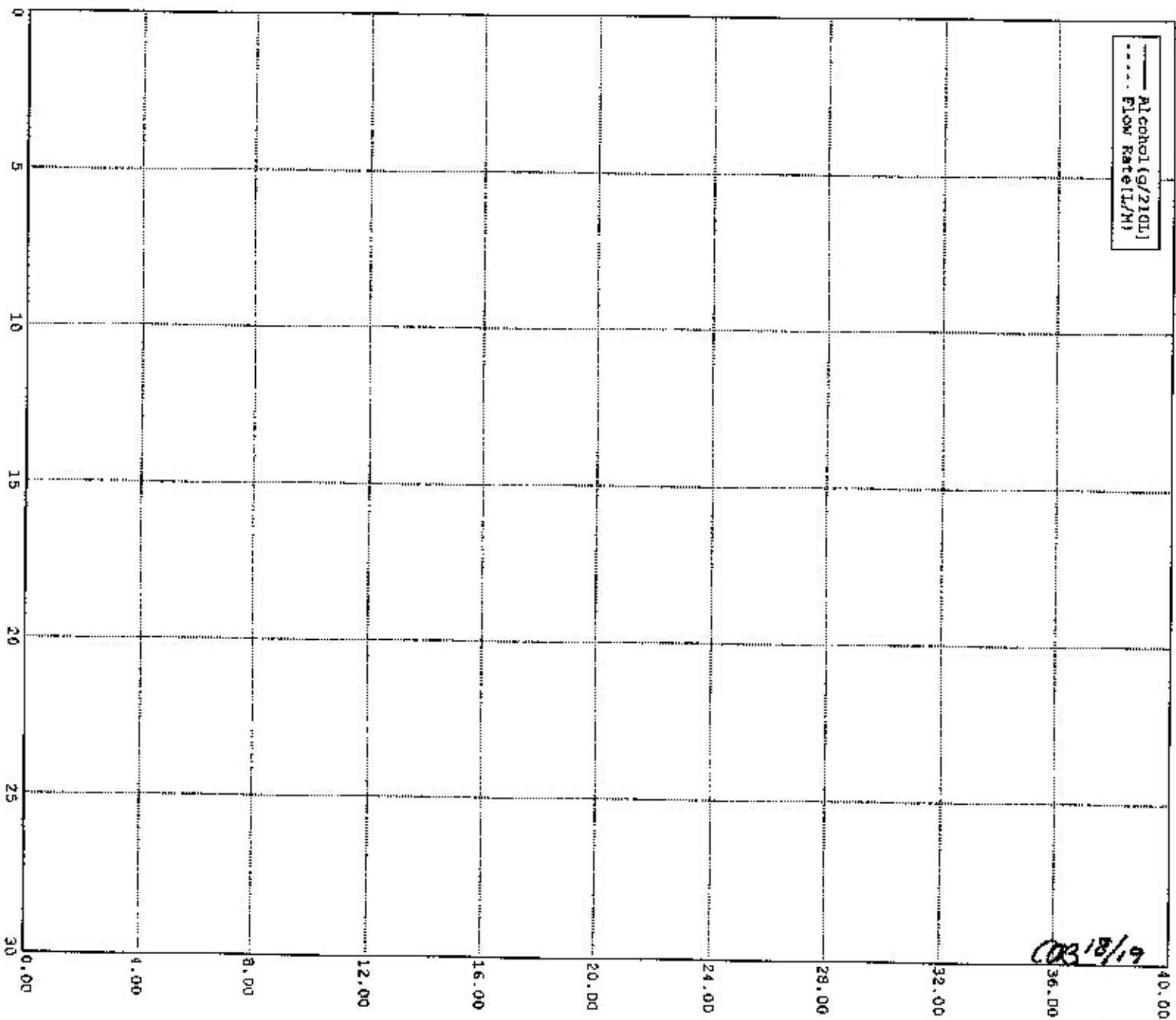
SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

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

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.67: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
 BLANK TEST PASSED 15:36
 INTERNAL STANDARD VERIFIED 15:36
 EXTERNAL STANDARD 0.080 15:36
 BLANK TEST 0.000 15:37
 RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100423

Date: 11/15/2012
 Time: 07:48:49

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

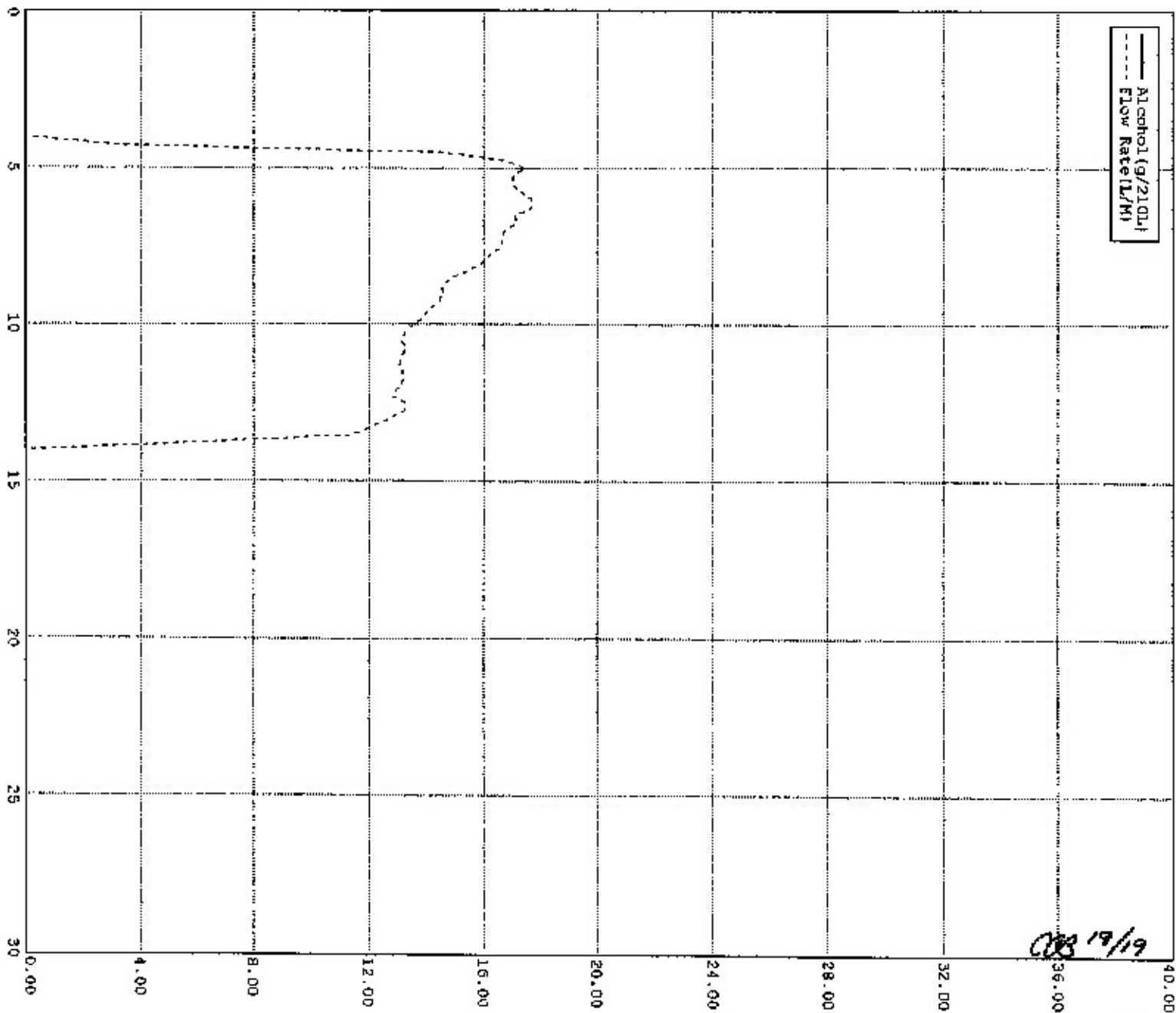
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.24: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	07:49
BLANK TEST	0.000	07:49
INTERNAL STANDARD	VERIFIED	07:50
EXTERNAL STANDARD	0.078	07:50
BLANK TEST	0.000	07:51
SUBJECT SAMPLE	0.000	07:51
BLANK TEST	0.000	07:52
EXTERNAL STANDARD	0.079	07:52
BLANK TEST	0.000	07:53

Colleen



Final page for report

\

\\ANCSCLSAN01\JTRAX\CASEDOCS\B-100423\B-100423_ECF-20140

2/18/2014