

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100374 Analyst Colleen O'Bryant Start Date 1/26/13
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 1700 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used i. 0.020g/210L Mnf ILMO Lot 00813030A1 Exp 3/1/15ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15iii. 0.080g/210L Mnf ILMO Lot 22612080A1 Exp 9/1/14iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15v. 0.200g/210L Mnf Guth Lot 13100 Exp 8/10/14i. Simulator S/N SD1198 Date Calibrated 1/23/13vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15i. Simulator S/N SD1108 Date Calibrated 1/23/135. Functional Tests (attached) 501088a. Incomplete b. Invalid c. Interference i. Acetone - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15i. Simulator S/N DR4161 Date Calibrated 1/24/13ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15i. Simulator S/N SD1177 Date Calibrated 1/23/13iii. Negative Control - Mnf Guth Lot 11270 Level 0.100 Exp 1/9/15i. Simulator S/N SD1199 Date Calibrated 1/23/13d. 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 12/3/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100374

Date: 11/26/2013
Time: 10:18:48

VERSIONS

DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 5.421 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: 100374

Date: 11/26/2013

Time: 10:42 AM

Temperatures (°C)

Sample Cell: 48.6°C
Breath Tube: 45.2°CCurrent Barometer 29.6 in
Volume (ltr) 1.45

Settings

Lamp: 1.62 V
Bias: 80 V
Cooler: 1.46 V
Chopper: 522 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.082 V

CALIBRATION FACTORS

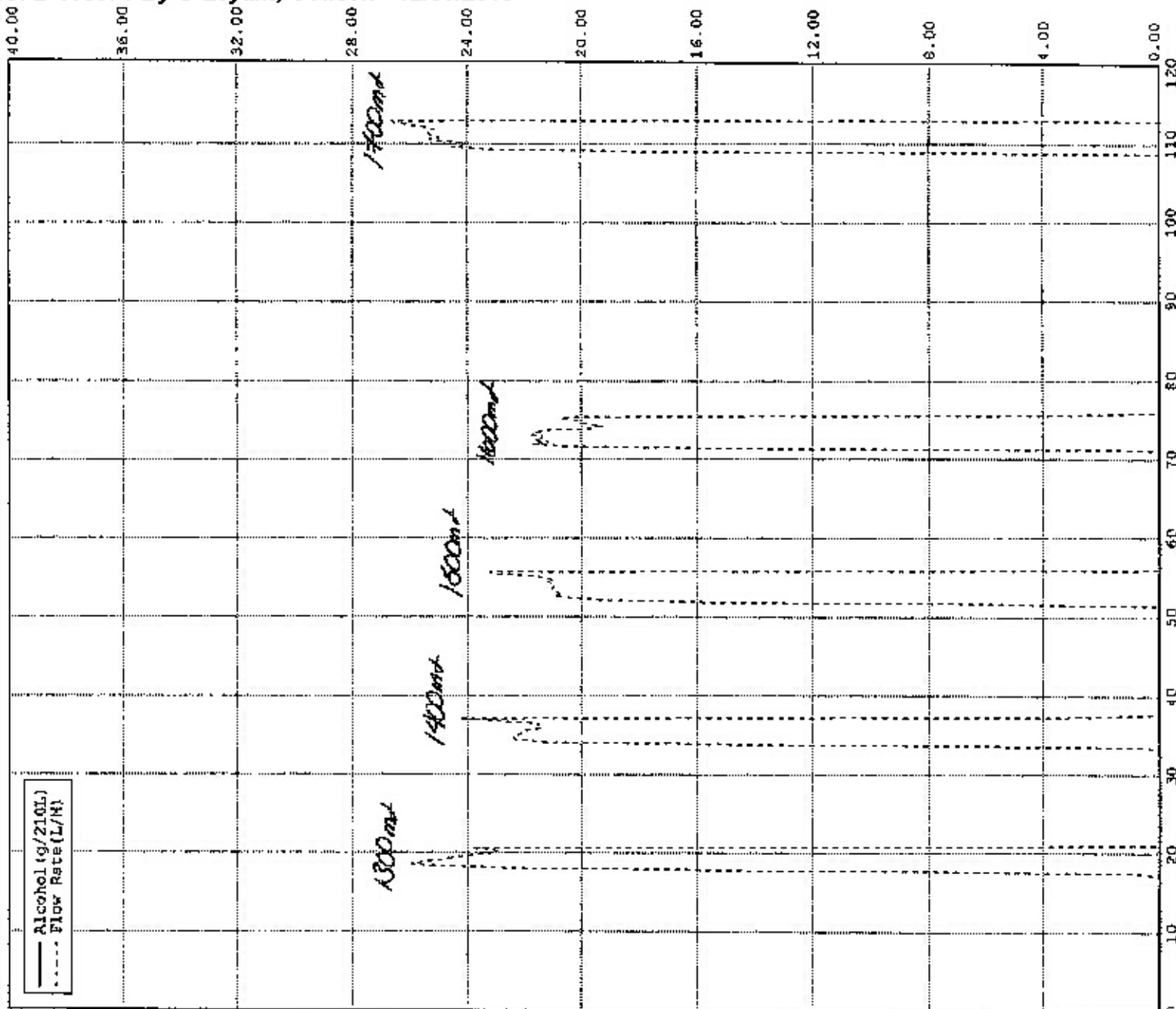
Alaska Department of Public Safety
DATAMASTER dnt: 100374

Date: 05/18/2011
Time: 14:37:55

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

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

Ca = 0.1000
CAL = 0.962091 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0070 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0899 0.0500 <= Xq < 0.2000
a21 = 1.196523 1.050 <= a21 < 1.300
a31 = 0.386146 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATASTAR dnt: 100374

Date: 11/26/2013
 Time: 10:43:37

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

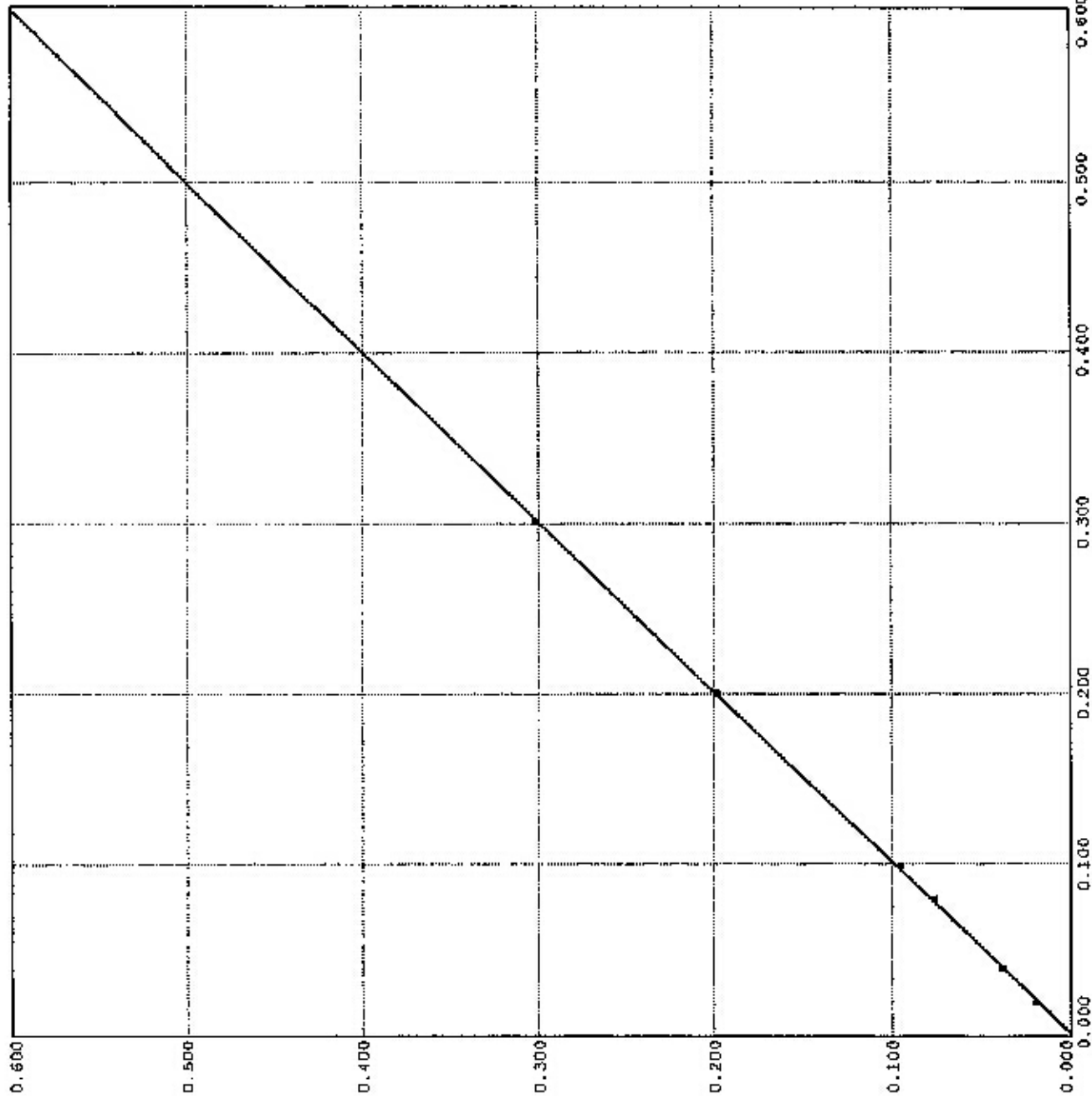
DEPT/AGENCY:
 AAAL

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.060
 TARGET AT 29.53: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:44
BLANK TEST	0.000	10:44
INTERNAL STANDARD	VERIFIED	10:44
EXTERNAL STANDARD	0.077	10:45
BLANK TEST	0.000	10:46
SUBJECT SAMPLE	0.000	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.077	10:49
BLANK TEST	0.000	10:50

CRB



LINEARITY CHECK

Alaska Department of Public Safety
 DATA MASTER dmt: 100374

Date: 11/26/2013
 Time: 14:32:06

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0206	0.0002
0.039	0.0394	0.0002
0.079	0.0778	0.0004
0.099	0.0959	0.0002
0.200	0.1993	0.0004
0.300	0.3021	0.0003

SLOPE = 1.004369
 R² = 0.999692

COB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100374

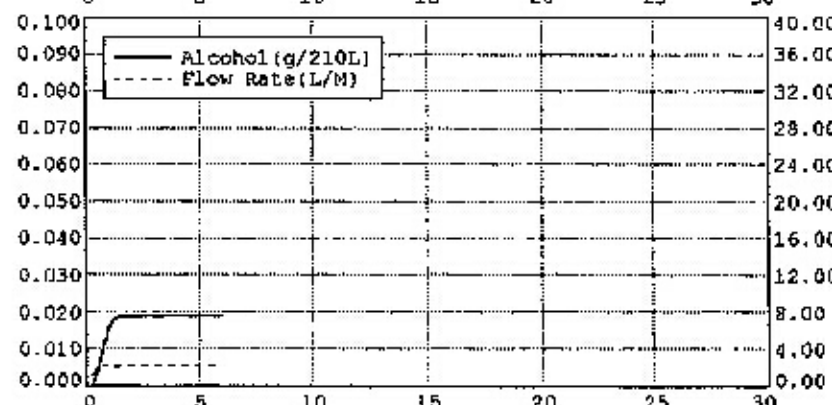
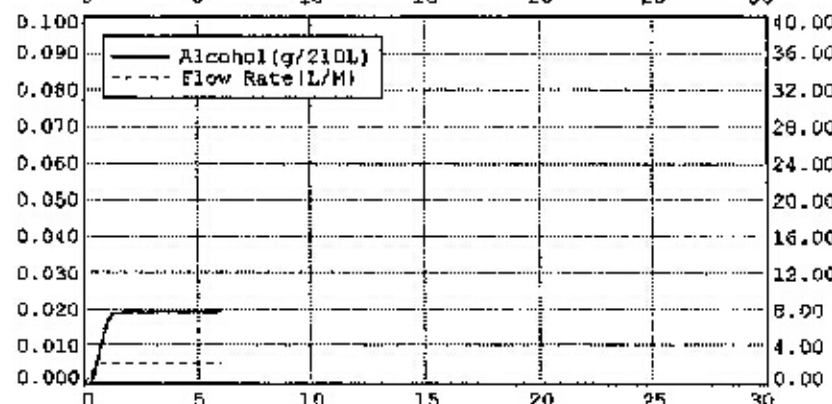
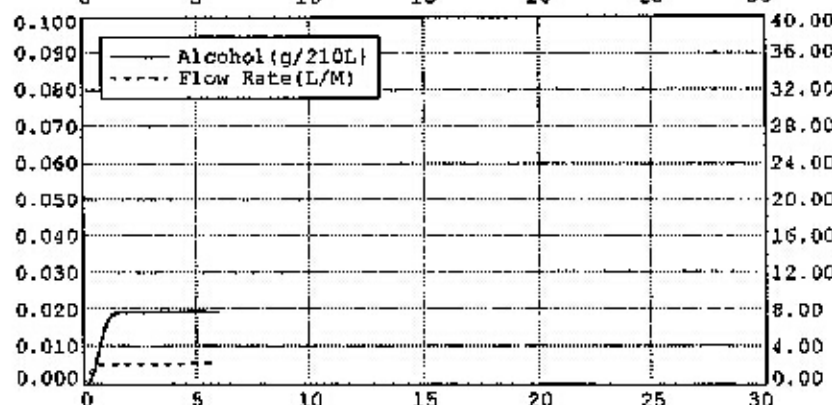
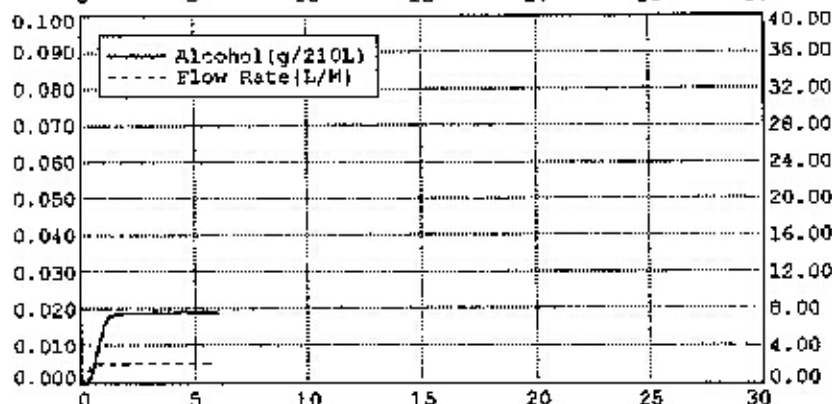
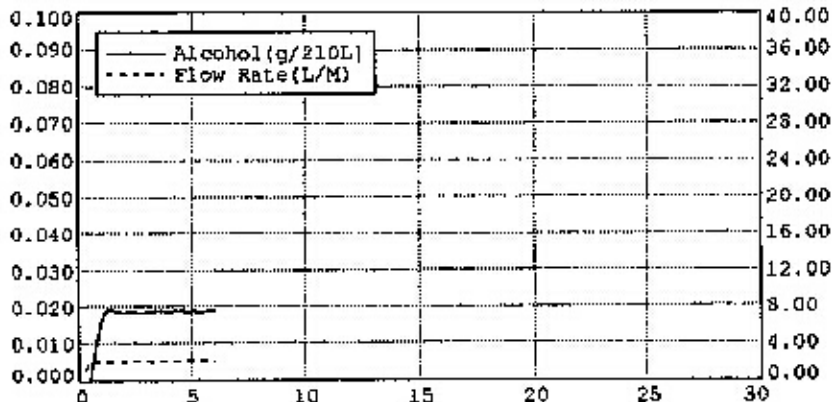
Date: 11/26/2013
 Time: 14:32:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.53: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:33
INTERNAL STANDARD	VERIFIED	14:33
EXTERNAL STANDARD	0.020	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.020	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.020	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.020	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.020	14:38
BLANK TEST	0.000	14:39

Average = 0.0206
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100374

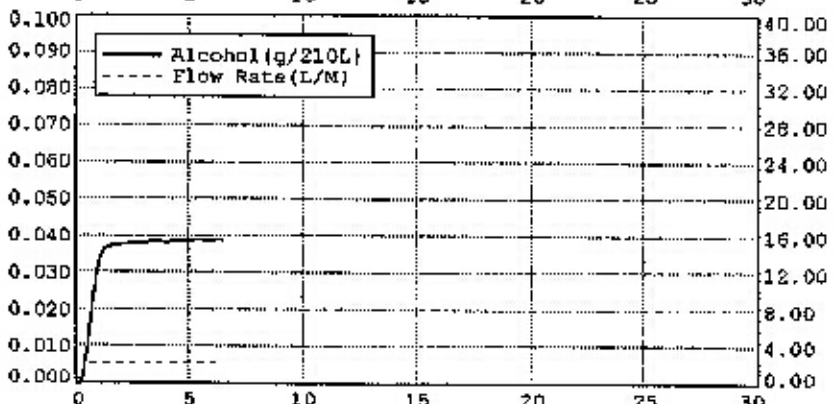
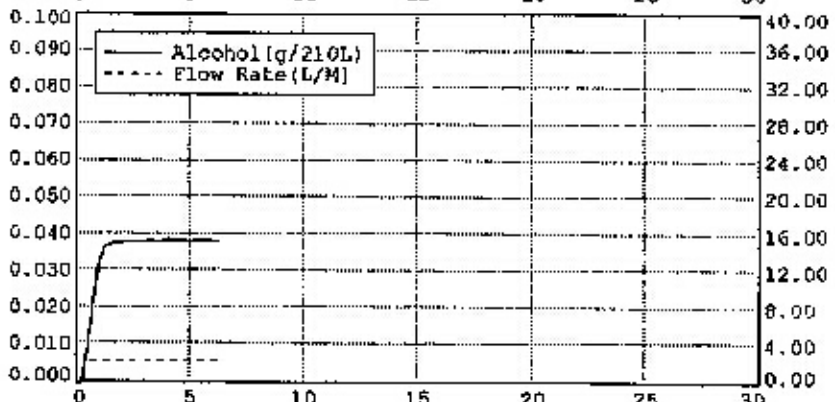
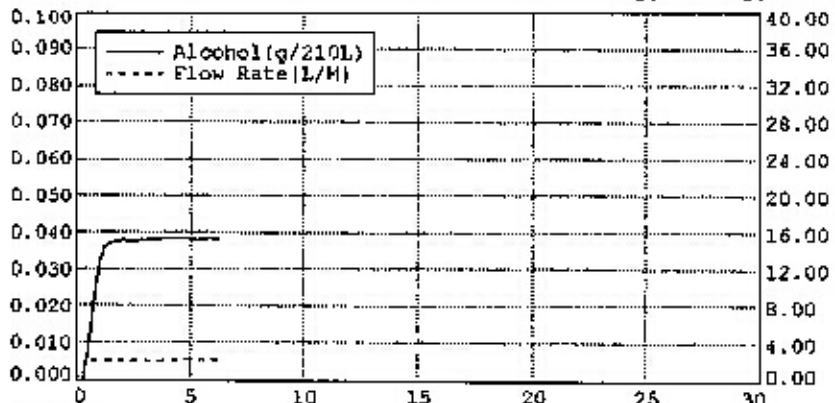
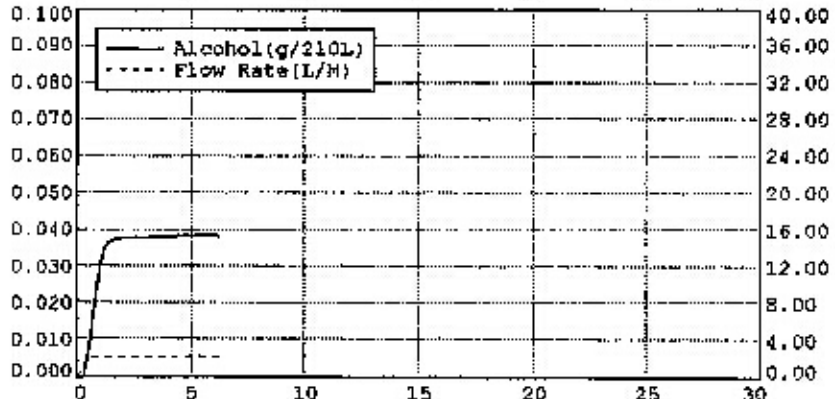
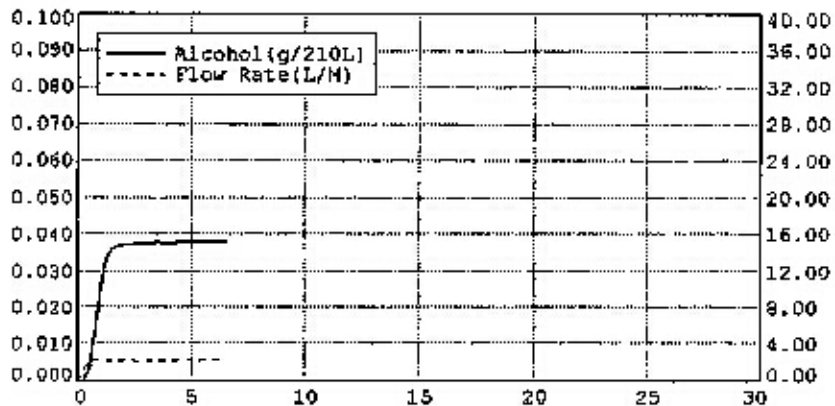
Date: 11/26/2013
 Time: 14:40:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.62: 0.039
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:42
INTERNAL STANDARD	VERIFIED	14:42
EXTERNAL STANDARD	0.039	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.039	14:44
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.039	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.039	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.039	14:47
BLANK TEST	0.000	14:48

Average = 0.0394
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dnt: 100374

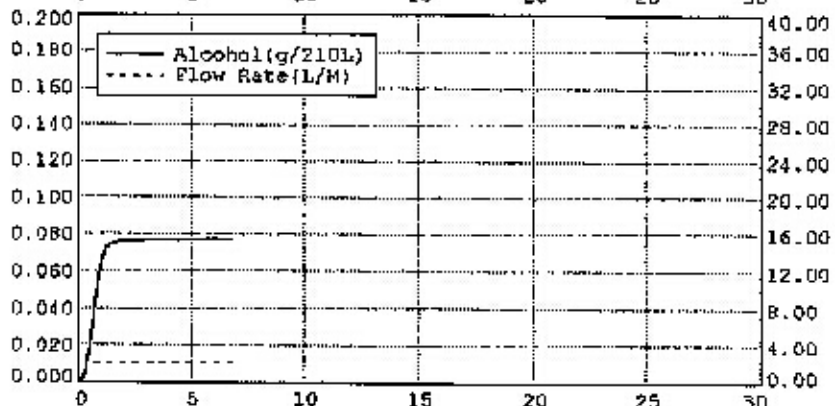
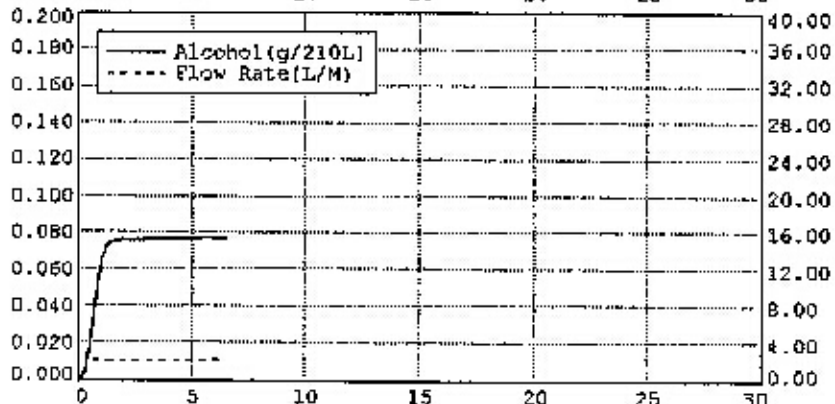
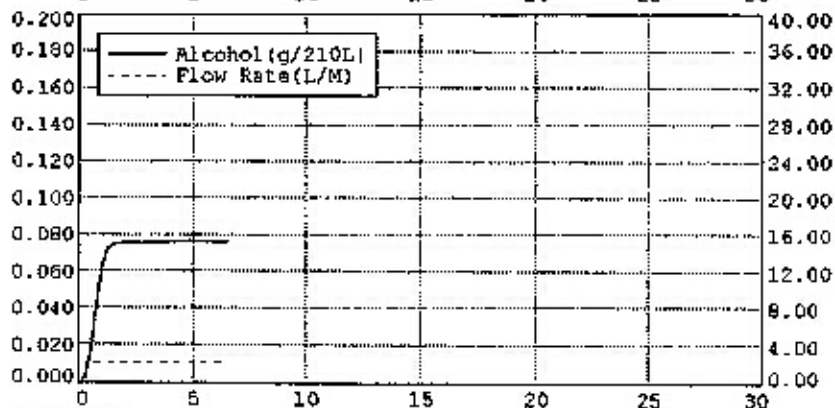
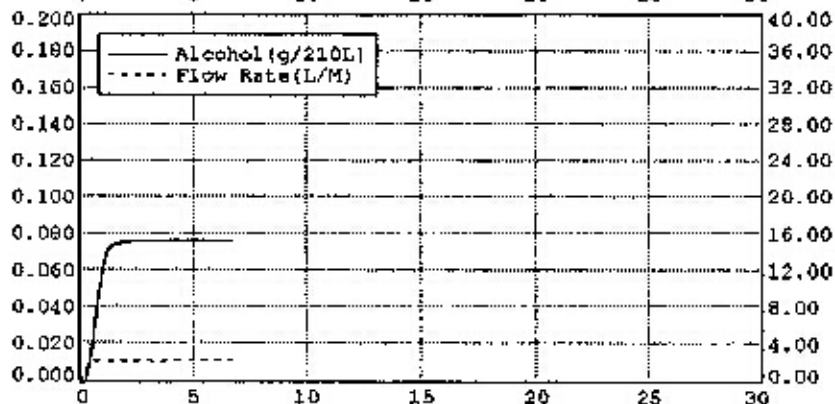
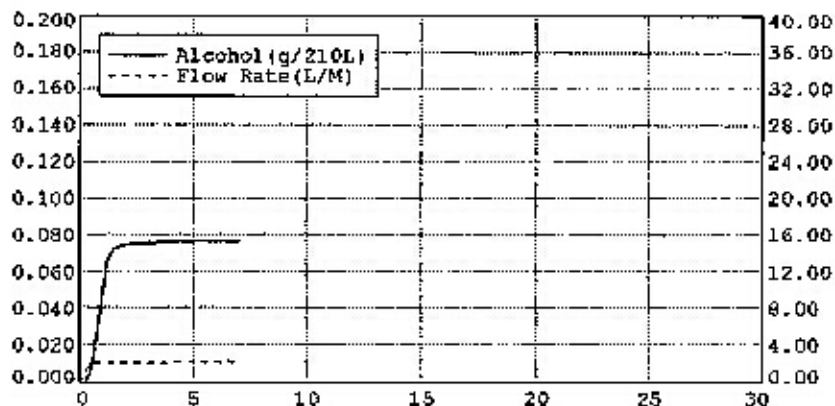
Date: 11/26/2013
 Time: 14:48:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.63: 0.079
 LCF #: 22612080A1
 EXPIRATION: 09/01/2014

BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.077	14:51
BLANK TEST	0.000	14:52
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	0.078	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.078	14:55
BLANK TEST	0.000	14:56

Average = 0.0778
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100374

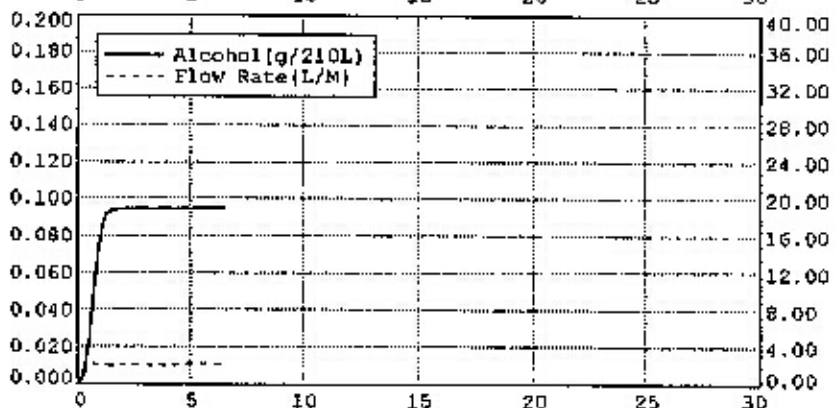
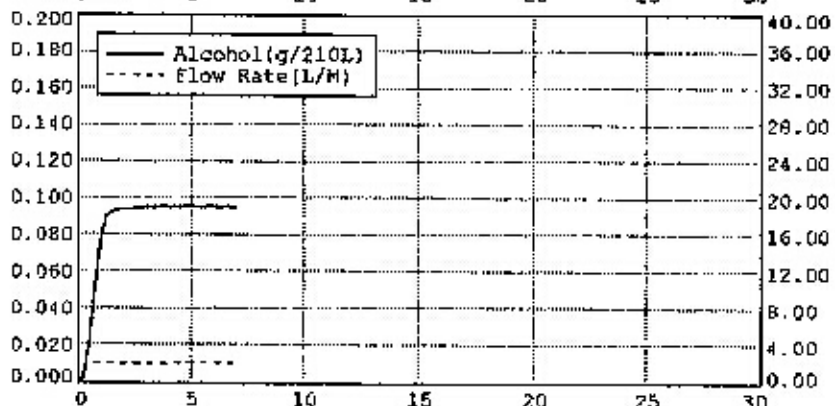
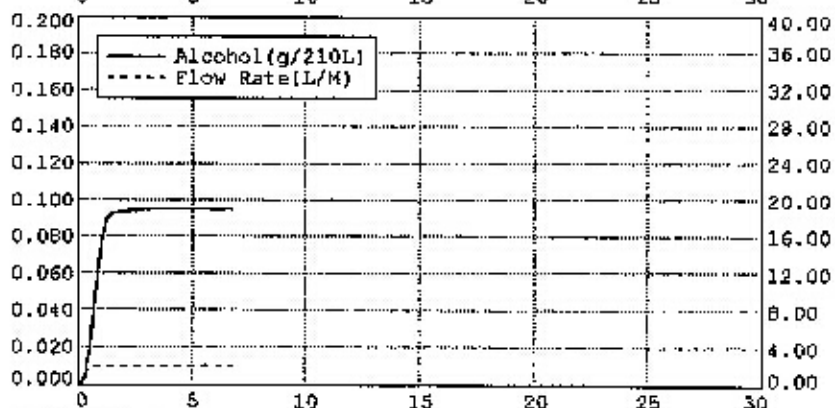
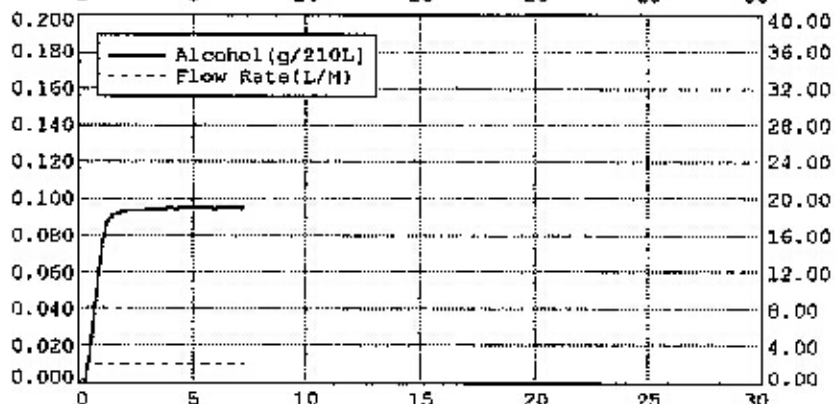
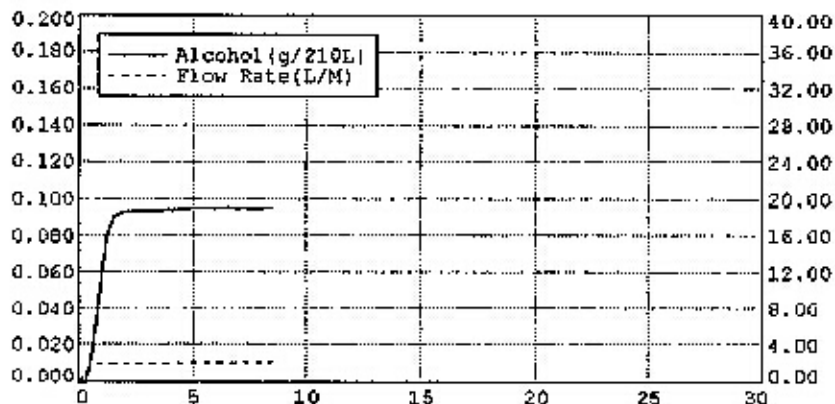
Date: 11/26/2013
 Time: 14:57:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.63: 0.099
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:58
INTERNAL STANDARD	VERIFIED	14:59
EXTERNAL STANDARD	0.095	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.095	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.096	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.095	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.096	15:03
BLANK TEST	0.000	15:04

Average = 0.0959
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100374

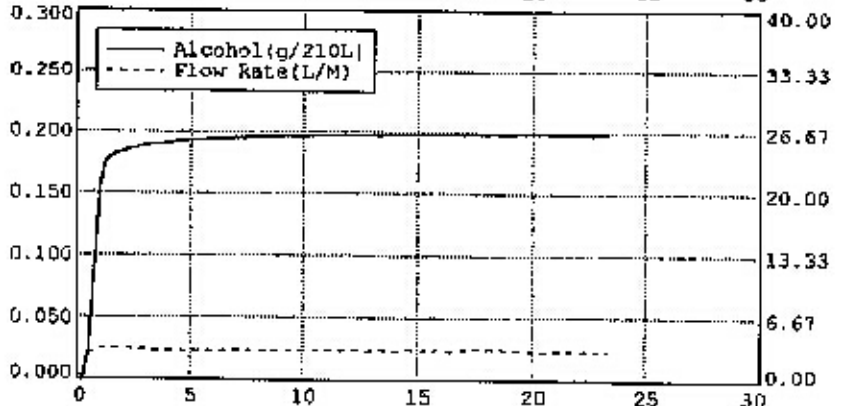
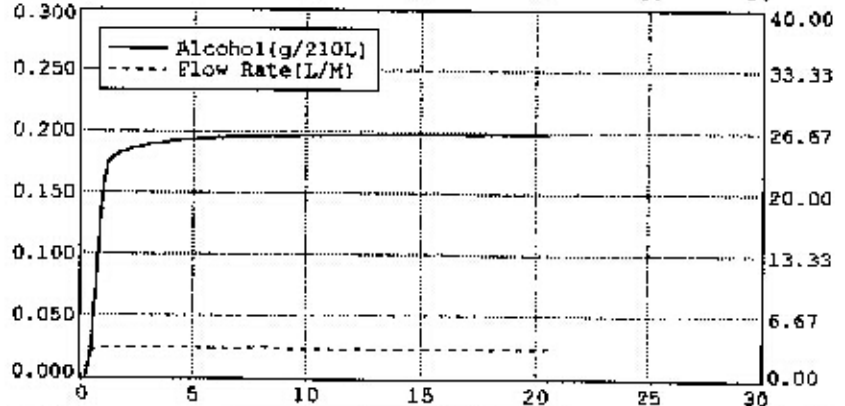
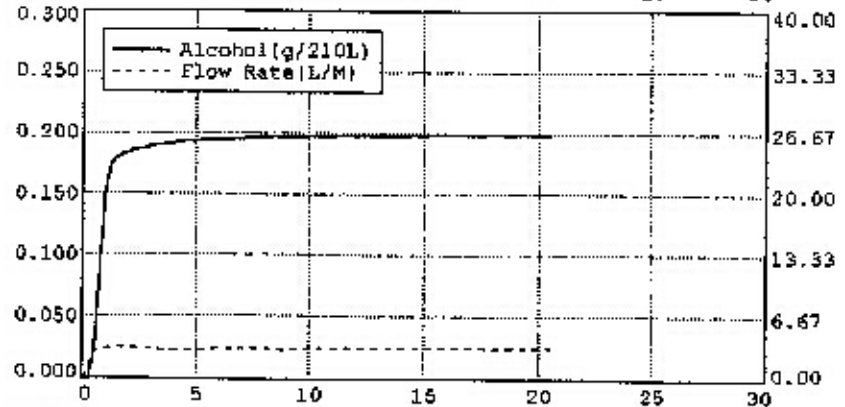
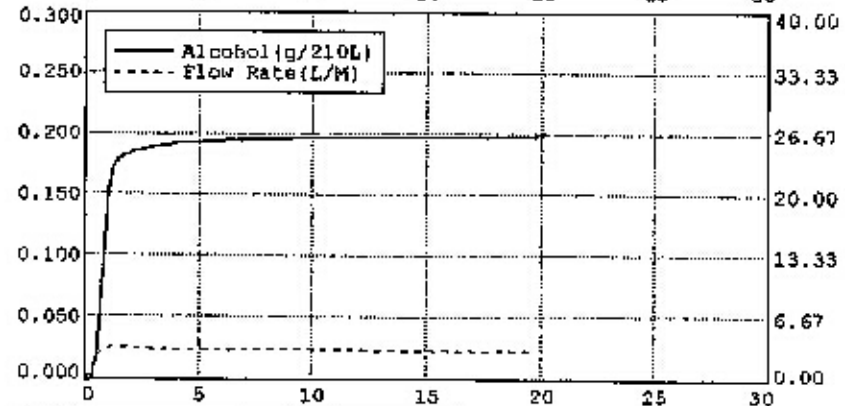
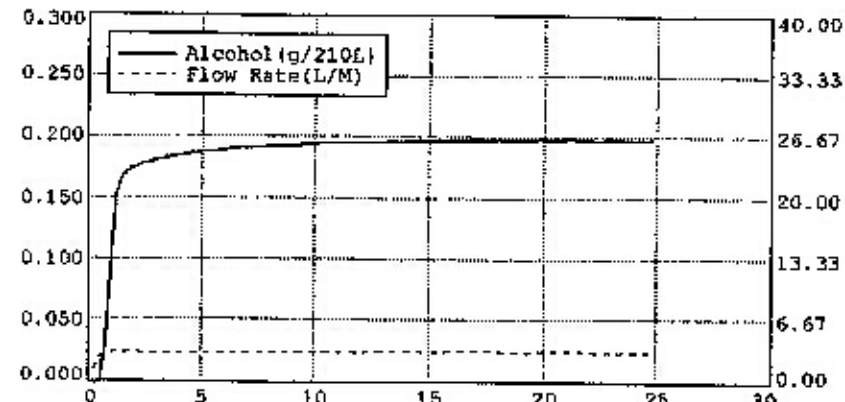
Date: 11/26/2013
 Time: 15:05:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 12120
 EXPIRATION: 08/10/2014

BLANK TEST	0.000	15:06
INTERNAL STANDARD	VERIFIED	15:06
EXTERNAL STANDARD	0.199	15:07
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.199	15:08
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.199	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.199	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.199	15:12
BLANK TEST	0.000	15:13

Average = 0.1993
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100374

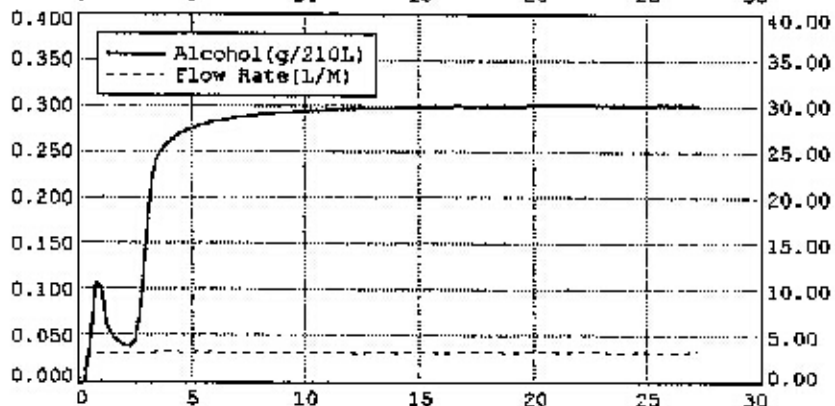
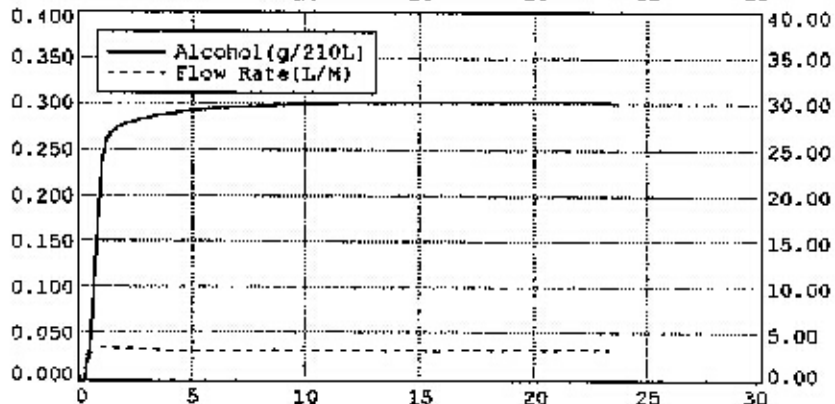
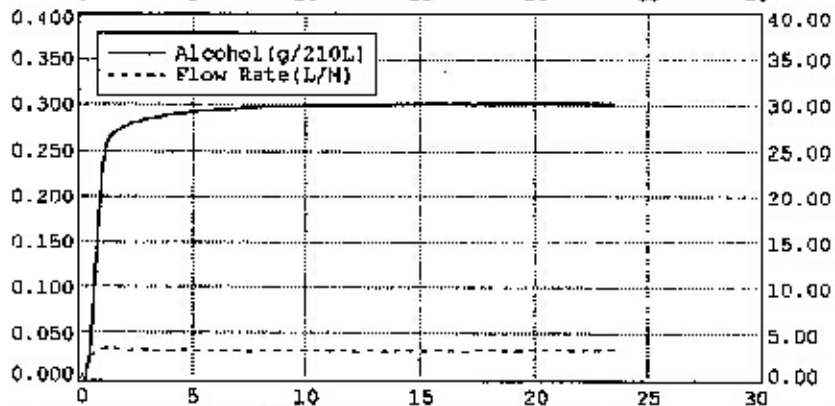
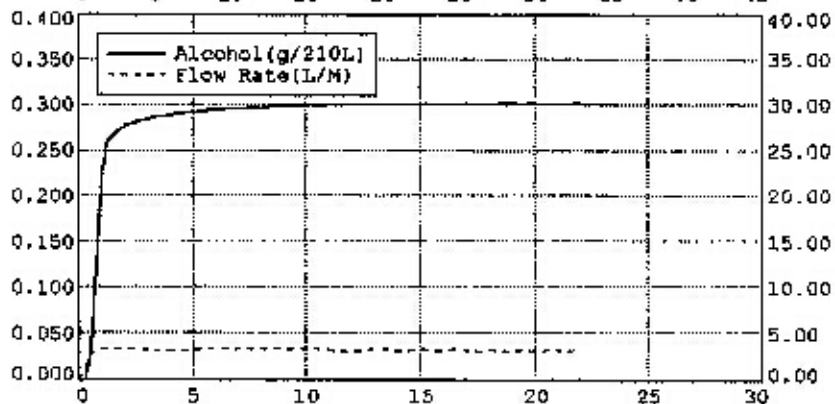
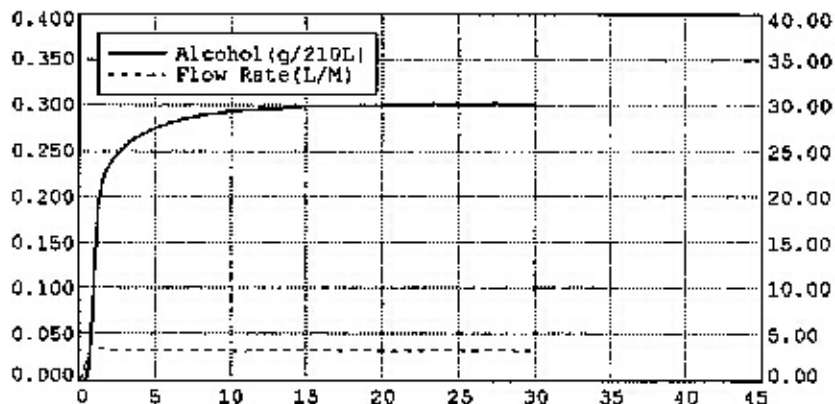
Date: 11/26/2013
 Time: 15:16:09

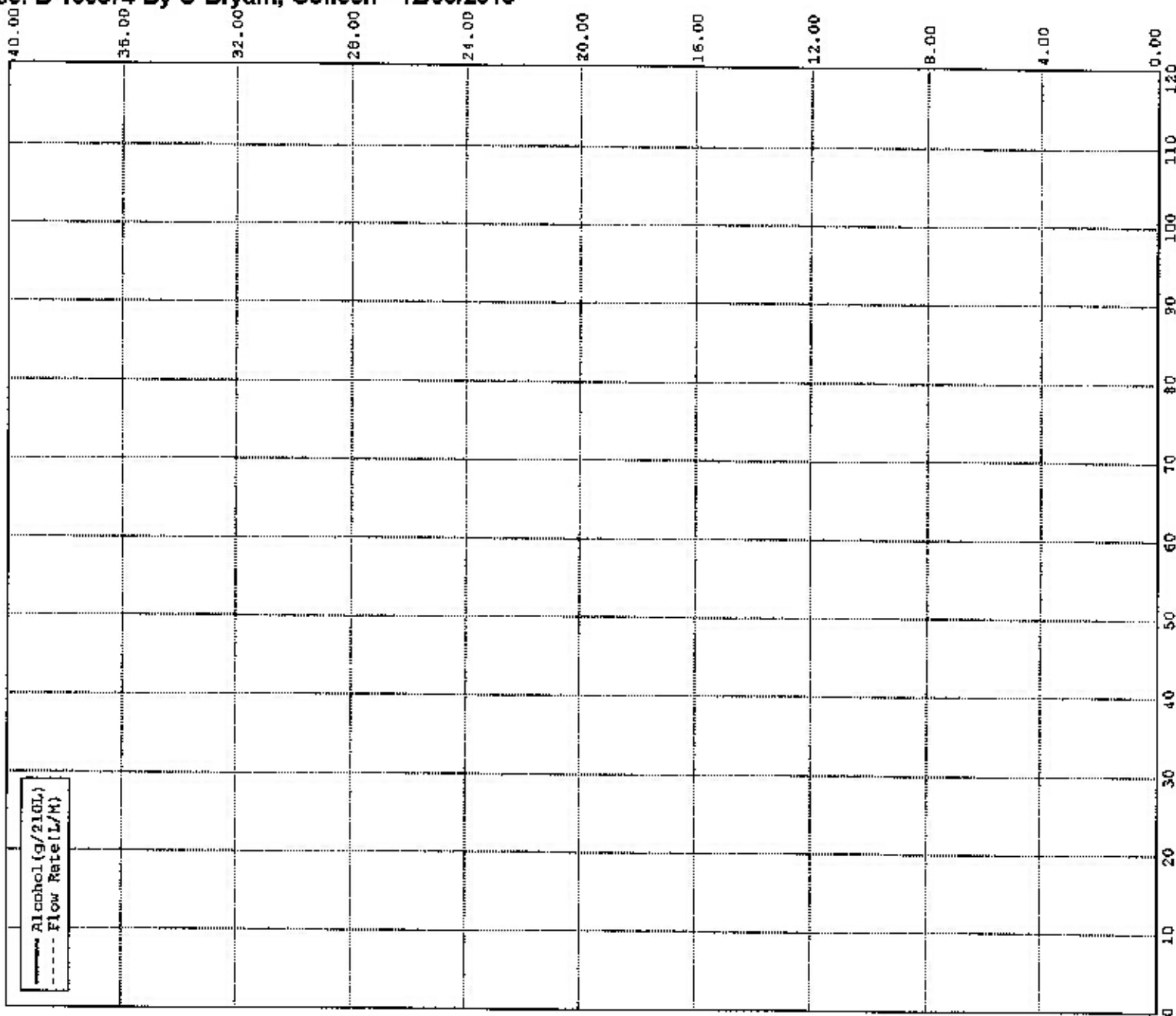
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 13080
 EXPIRATION: 03/19/2015

BLANK TEST	0.000	15:17
INTERNAL STANDARD	VERIFIED	15:17
EXTERNAL STANDARD	0.302	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.302	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.302	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.302	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.301	15:23
BLANK TEST	0.000	15:24

Average = 0.3021
 Std Dev = 0.0003





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100374

Date: 12/02/2013
 Time: 14:06:38

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

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

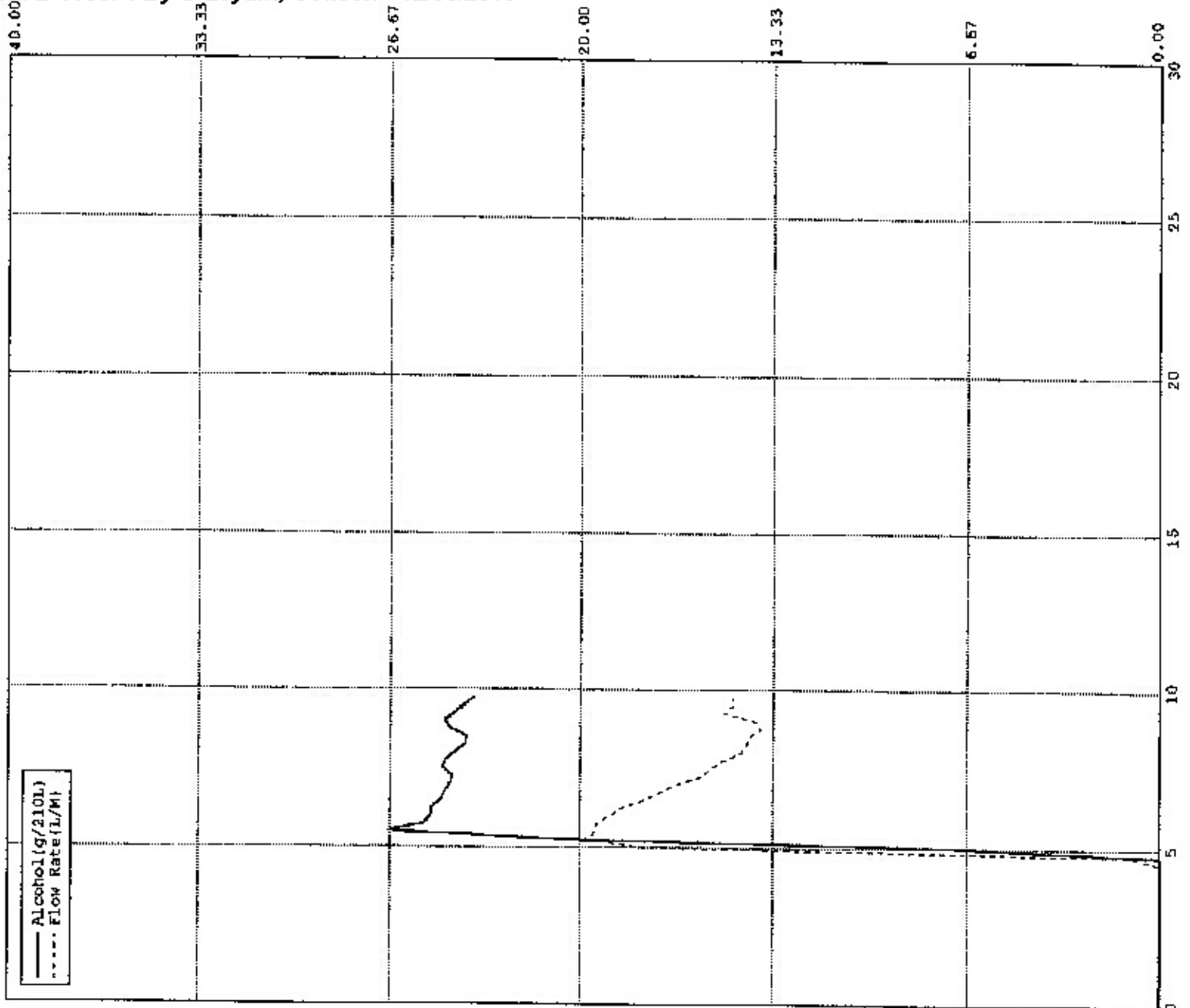
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.43: 0.081
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 14:08
 BLANK TEST 0.000 14:08
 INTERNAL STANDARD VERIFIED 14:08
 EXTERNAL STANDARD 0.079 14:09
 BLANK TEST 0.000 14:10
 SUBJECT SAMPLE INCOMPLETE 14:12

OB



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dnt: 100374

 Date: 12/02/2013
 Time: 14:18:59

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

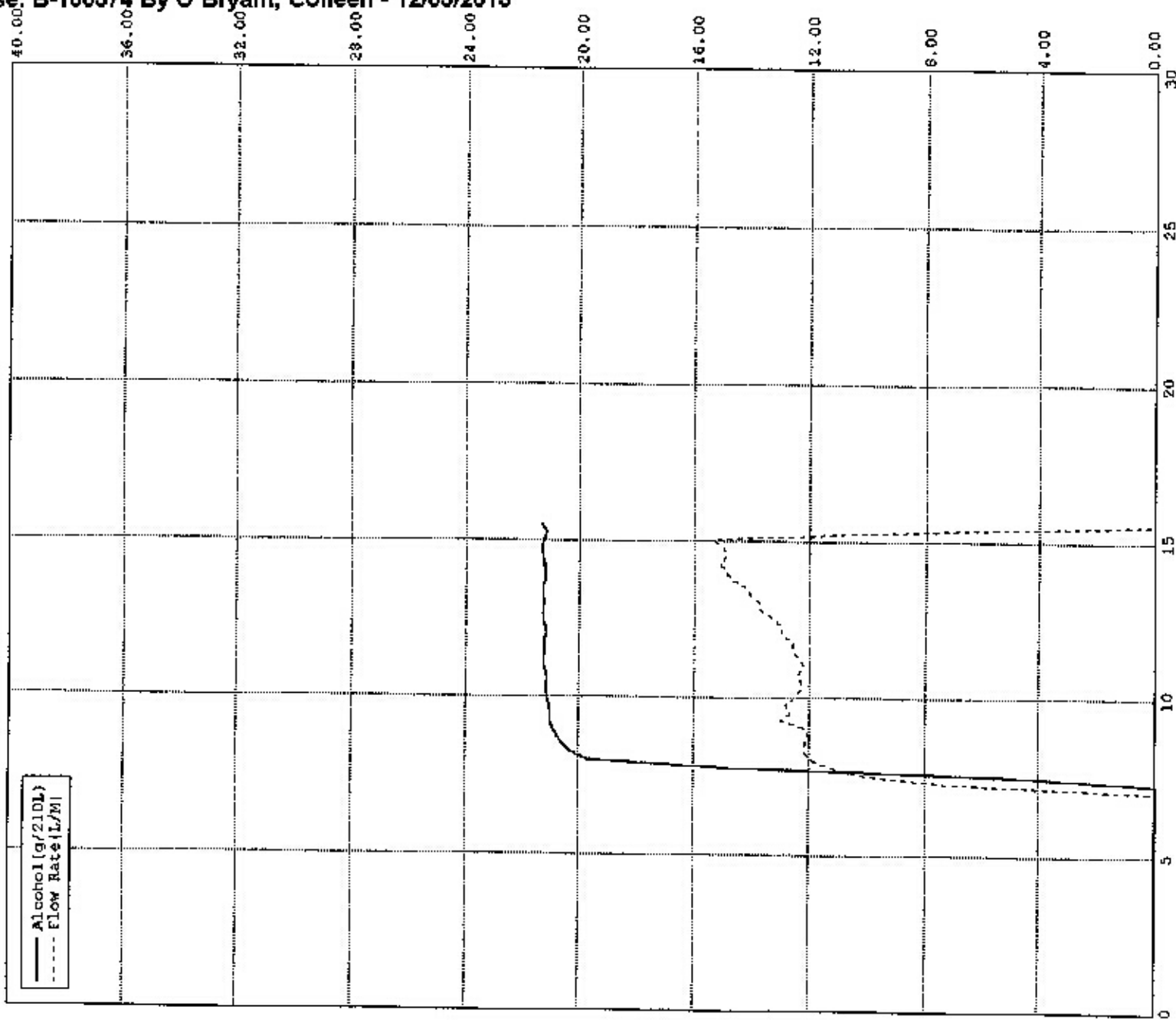
DEPT/AGENCY:
 AAAl

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.44: 0.061
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:20
BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
EXTERNAL STANDARD	0.079	14:20
BLANK TEST	0.000	14:21
SUBJECT SAMPLE	INVALID	14:21

CS



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100374

Date: 12/02/2013
 Time: 14:27:24

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

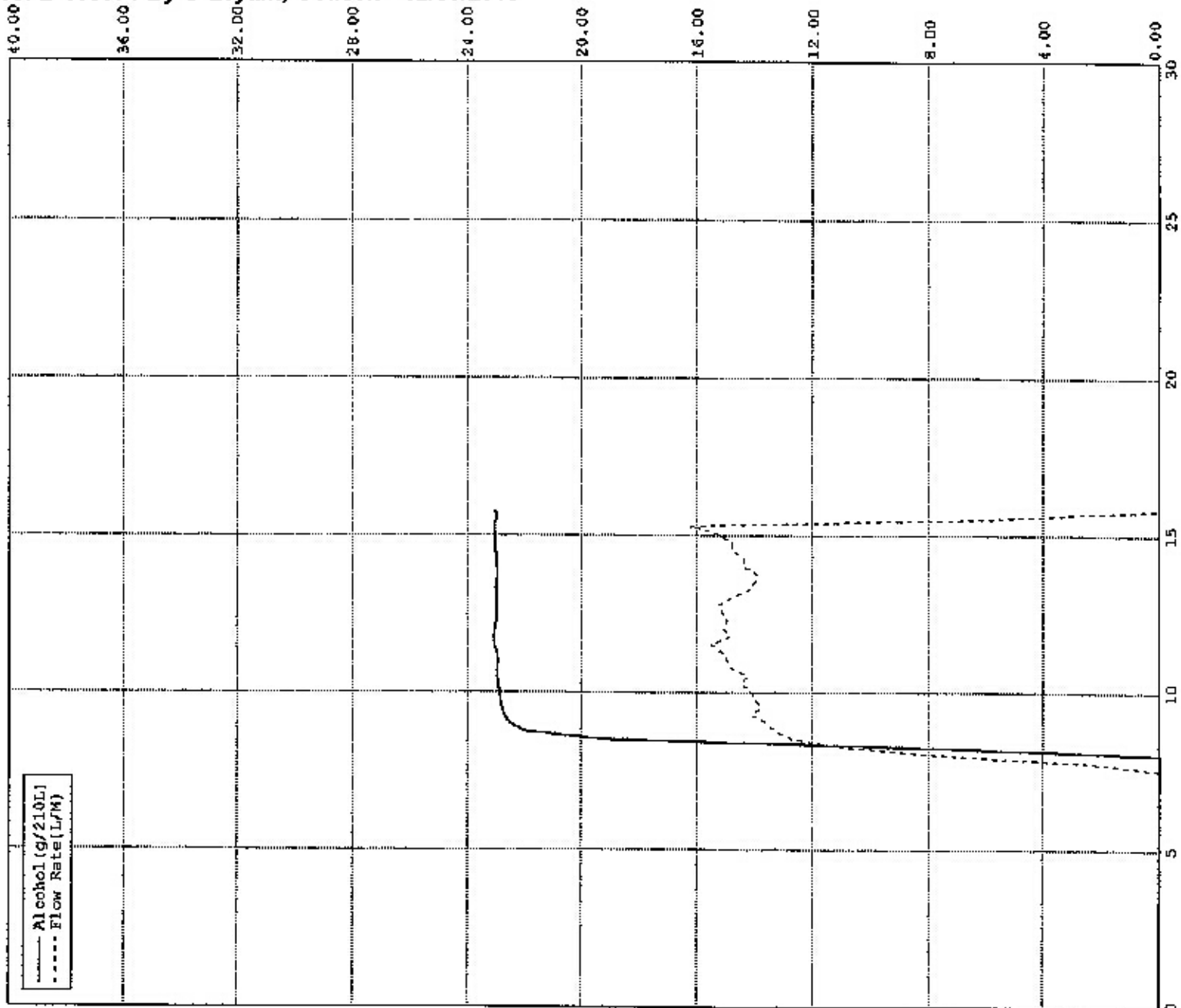
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.41: 0.081
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 14:30
 BLANK TEST 0.000 14:30
INTERNAL STANDARD VERIFIED 14:30
 Xq = 0.092 (2.14%)
EXTERNAL STANDARD 0.079 14:30
 X(1) = 0.0799 (-0.0036) (0.0005)
 BLANK TEST 0.000 14:31
SUBJECT SAMPLE INTERFERENCE 14:32
 X(1) = 0.1070 (-0.0170) (-0.0006)

OB



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dnt: 100374

 Date: 12/02/2013
 Time: 14:35:45

SUBJECT NAME:
TEST TEST
 LICENSE #: INT-IPA

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

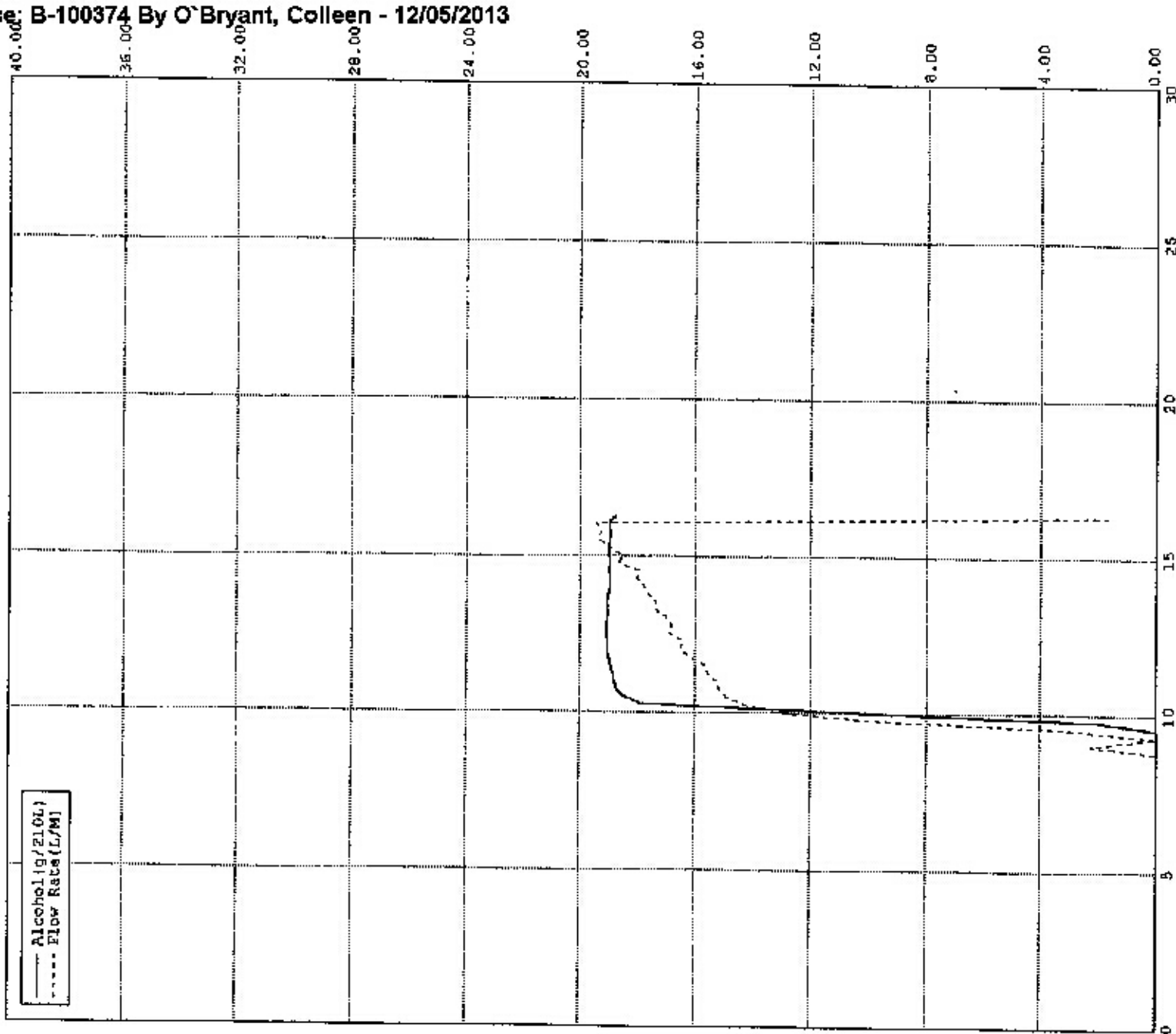
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AF 30.41; 0.081
 LOT #: 2261208DAI
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK PASSED 14:37
 BLANK TEST 0.000 14:37
 INTERNAL STANDARD VERIFIED 14:37
 Xq = 0.092 (2.14%)
 EXTERNAL STANDARD 0.079 14:37
 X[1] = 0.0793 (-0.0034) (0.0007)
 BLANK TEST 0.000 14:38
 SUBJECT SAMPLE INTERFERENCE 14:38
 X[1] = 0.1155 (-0.0308) (-0.0002)

COB



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100374

 Date: 12/02/2013
 Time: 15:07:37

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEG CONT

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

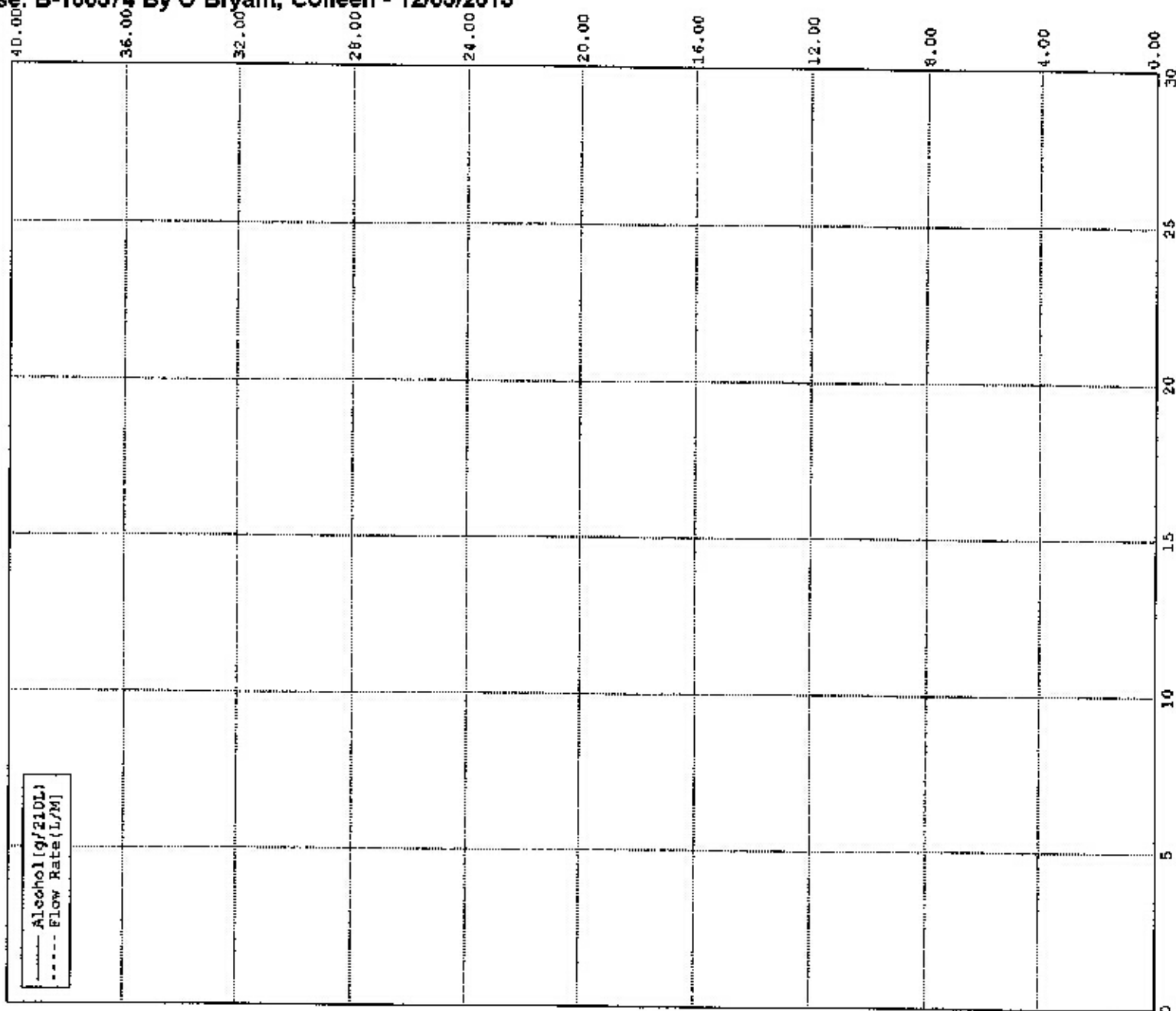
DEPT/AGENCY:
 AAAA1

CHSE/RSPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.090
 TARGET AT 30.41: 0.081
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	15:10
BLANK TEST	0.000	15:10
INTERNAL STANDARD	VERIFIED	15:10
$Xq = 0.092$ (2.23%)	0.079	15:11
EXTERNAL STANDARD	(0.0005)	
$X(1) = 0.0795$ (-0.0036)	0.000	15:12
BLANK TEST	0.094	15:12
SUBJECT SAMPLE (Vol=1.82L)	(-0.0004)	
$X(1) = 0.0948$ (-0.0012)	0.009	15:13
BLANK TEST	0.079	15:13
EXTERNAL STANDARD	(0.0001)	
$X(1) = 0.0794$ (-0.0034)	0.000	15:14
BLANK TEST		

CAB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100374

Date: 12/02/2013
 Time: 15:17:03

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 5237

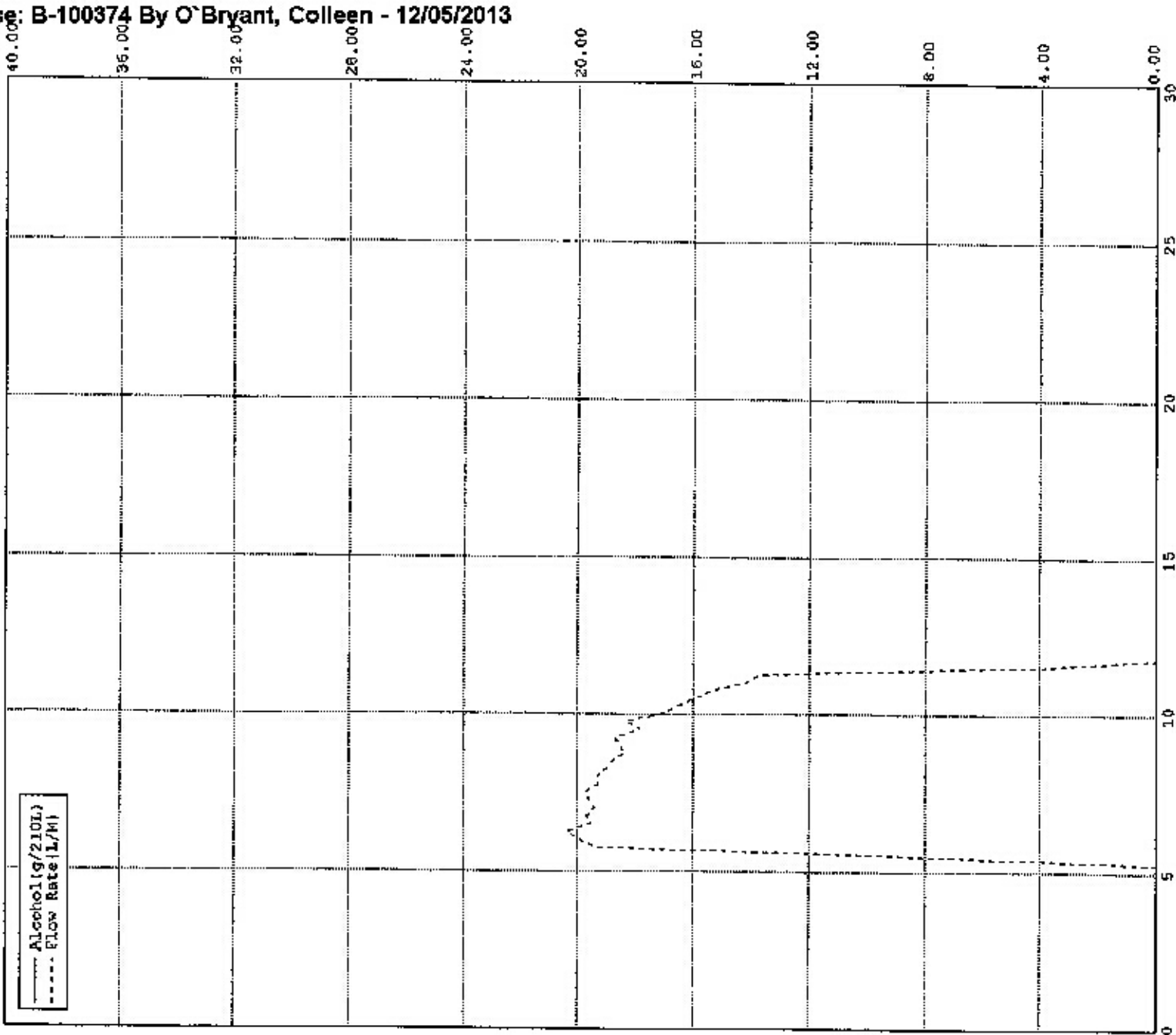
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.41: 0.081
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK
 BLANK TEST PASSED 15:19
 0.000 15:19
 INTERNAL STANDARD VERIFIED 15:19
 EXTERNAL STANDARD 0.080 15:19
 BLANK TEST 0.000 15:20

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100374

Date: 12/02/2013
 Time: 15:31:52

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON DRINKING

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.41: 0.081
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	15:33
BLANK TEST	0.000	15:33
INTERNAL STANDARD	VERIFIED	15:33
EXTERNAL STANDARD	0.079	15:33
BLANK TEST	0.000	15:34
SUBJECT SAMPLE	0.000	15:34
BLANK TEST	0.000	15:35
EXTERNAL STANDARD	0.079	15:35
BLANK TEST	0.000	15:36

CS

Final page for report

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7/3/2014