

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100357 Analyst Colleen O'Bryant Start Date 11/26/13

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 1600 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒

i. 0.020g/210L Mnf ILMO Lot 00813020A1 Exp 3/1/15

ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15

iii. 0.080g/210L Mnf ILMO Lot 00013080A1 Exp 3/1/14

iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15

v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/14

1. Simulator S/N SD1198 Date Calibrated 1/23/13

vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15

1. Simulator S/N SD1088 Date Calibrated 1/23/13

5. Functional Tests (attached)

a. Incomplete ☒

b. Invalid ☒

c. Interference ☒

i. Acetone - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

1. Simulator S/N DE4161 Date Calibrated 1/24/13

ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

1. Simulator S/N SD1177 Date Calibrated 1/23/13

iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

1. Simulator S/N SD1199 Date Calibrated 1/23/13

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 12/2/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 11/26/2013
Time: 10:15:27

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 46.7°C PASSED

PUMP INFO

Flow Rate = 4.398 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 dmt: 100357

Date: 11/26/2013

Time: 10:22 AM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 45.7°C

Current Barometer 29.6 in

Volume (Ltr) 1.42

Settings

Lamp: 1.75 V

Bias: 80 V

Cooler: 1.79 V

Chopper: 532 Hz

Voltages (V)

Flow: 1.05 V

Detector: -0.017 V

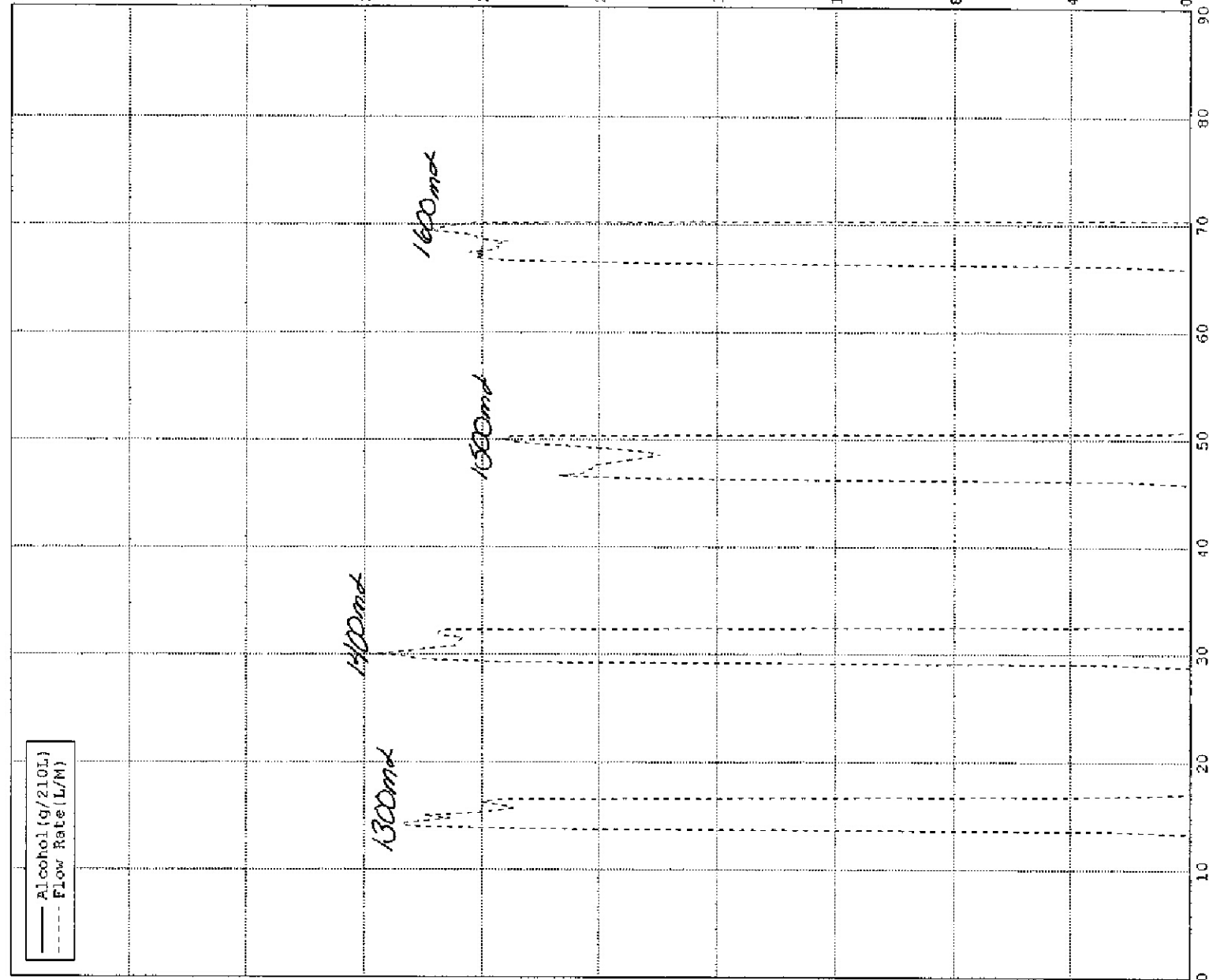
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 09/30/2013
Time: 10:32:33

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.963287 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0054 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0878 0.0500 <= Xq < 0.2000
a21 = 1.174329 1.050 <= a21 < 1.300
a31 = 0.514811 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100357

Date: 11/26/2013
 Time: 10:23:20

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

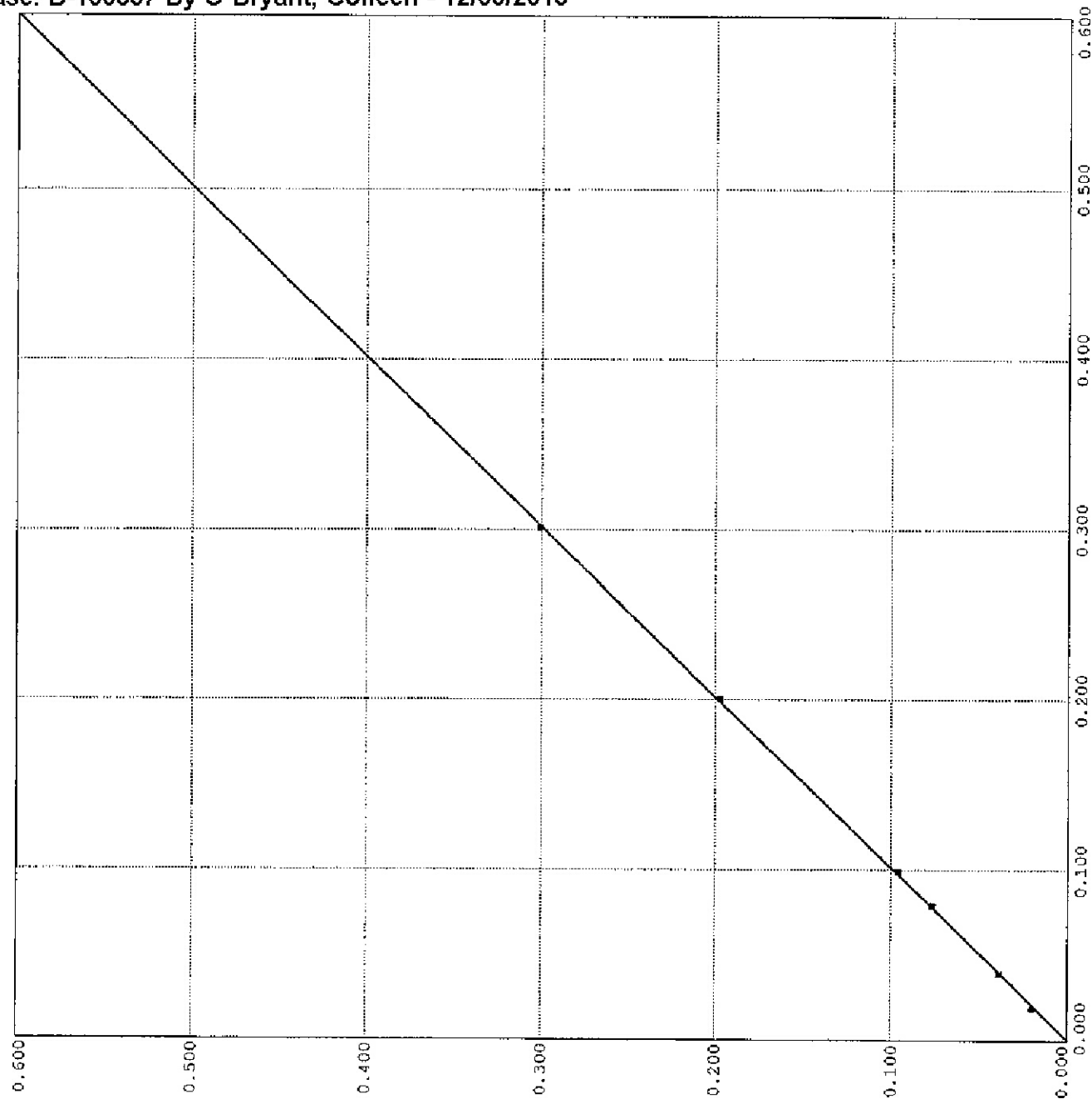
DEPT/AGENCY:
 AAA1
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:24
BLANK TEST	0.000	10:24
INTERNAL STANDARD	VERIFIED	10:24
EXTERNAL STANDARD	0.077	10:24
BLANK TEST	0.000	10:25
SUBJECT SAMPLE	0.000	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.077	10:29
BLANK TEST	0.000	10:29

CS



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100357

Date: 11/26/2013
 Time: 10:59:49

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0208	0.0001
0.039	0.0398	0.0002
0.079	0.0775	0.0003
0.099	0.0972	0.0003
0.200	0.1979	0.0008
0.300	0.3017	0.0005

SLOPE = 0.999973
 R^2 = 0.999725

CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100357

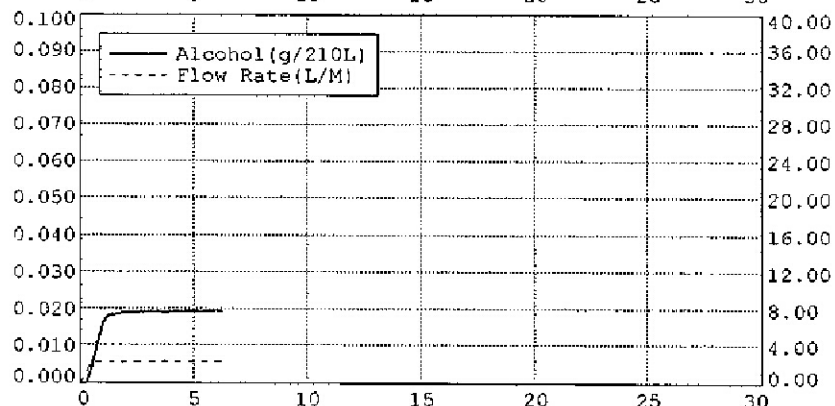
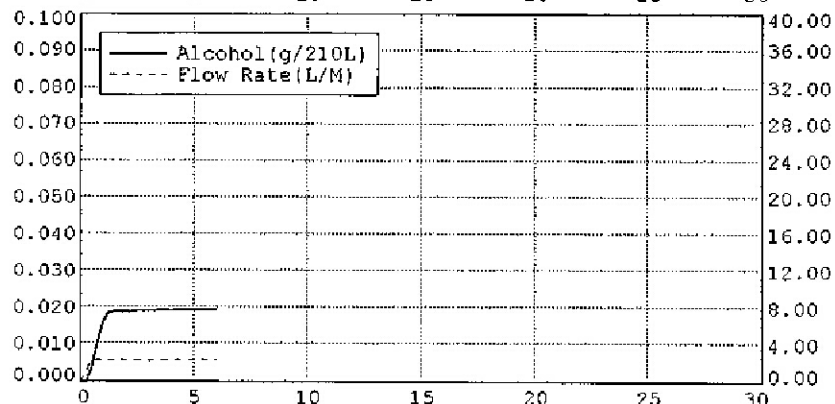
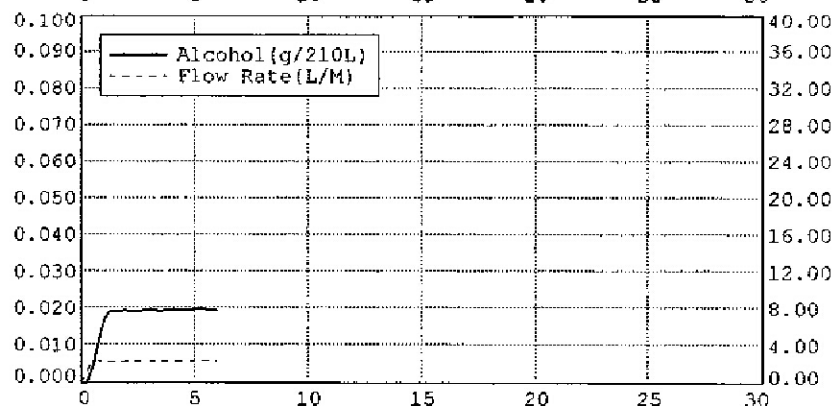
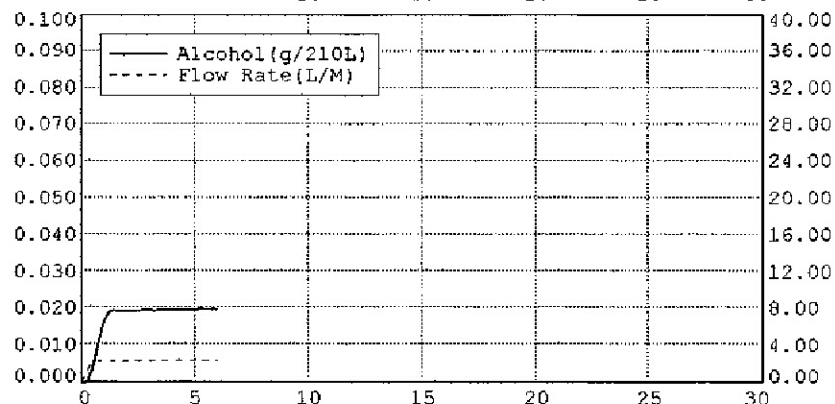
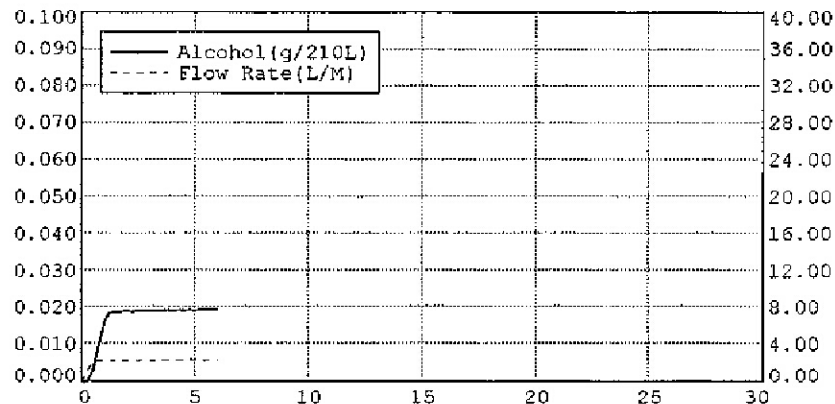
Date: 11/26/2013
Time: 10:59:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.63: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:01
INTERNAL STANDARD	VERIFIED	11:01
EXTERNAL STANDARD	0.020	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.020	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.020	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.020	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.020	11:05
BLANK TEST	0.000	11:06

Average = 0.0208
Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100357

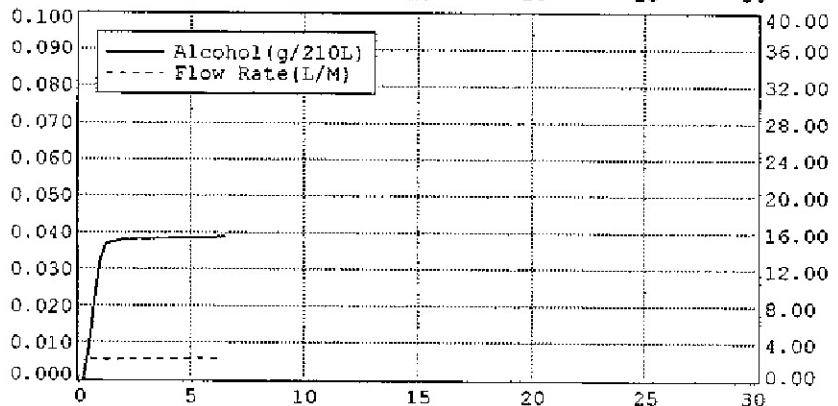
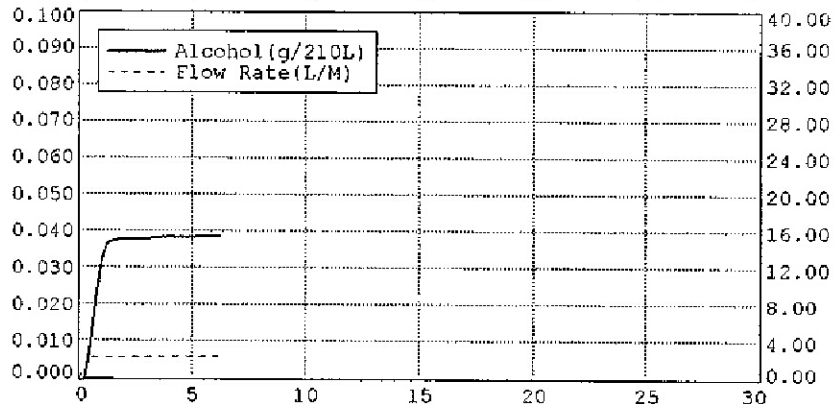
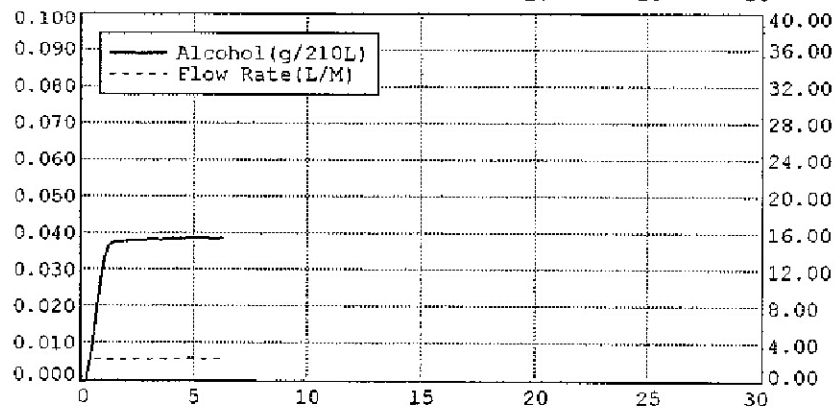
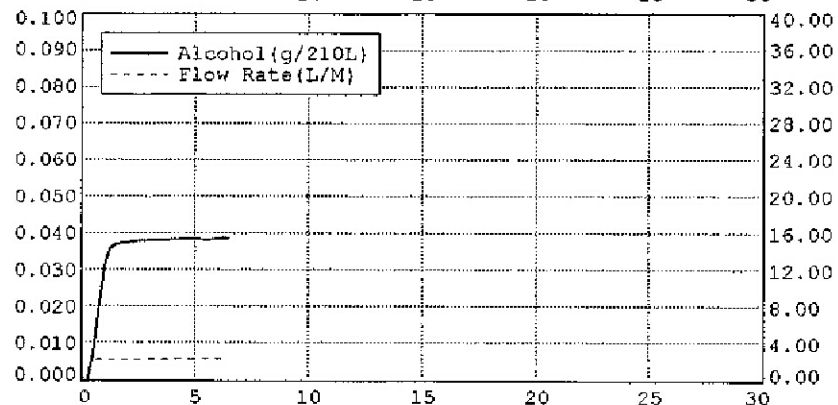
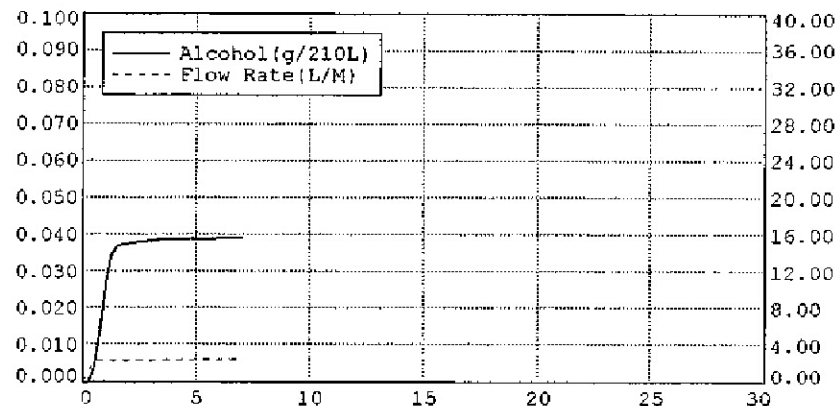
Date: 11/26/2013
Time: 11:09:09

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
EXTERNAL STANDARD	0.040	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.039	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.039	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.039	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.039	11:16
BLANK TEST	0.000	11:16

Average = 0.0398
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100357

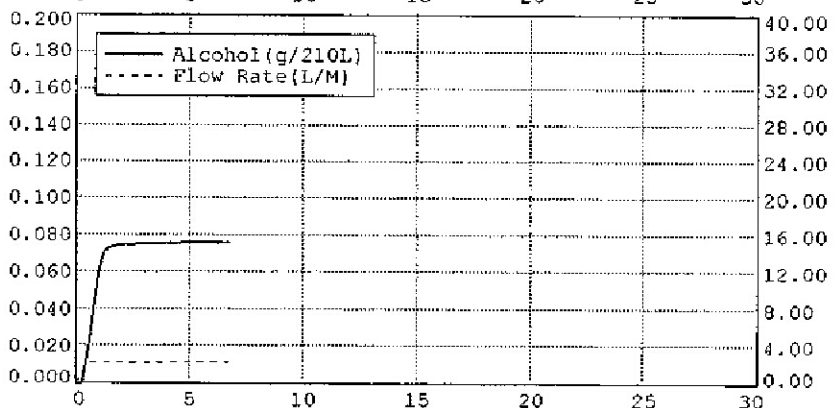
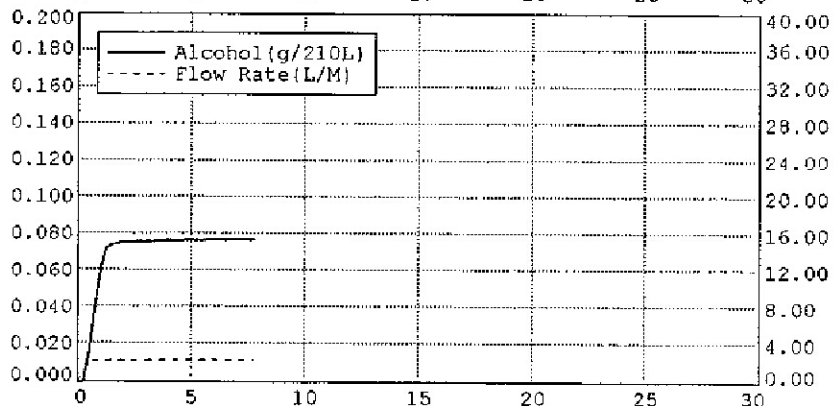
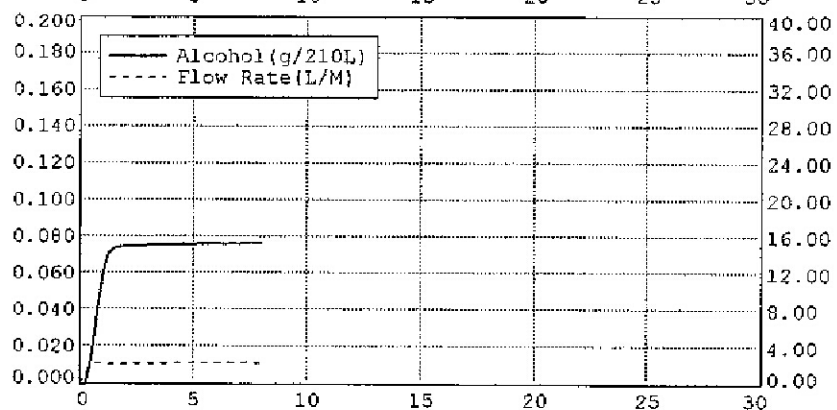
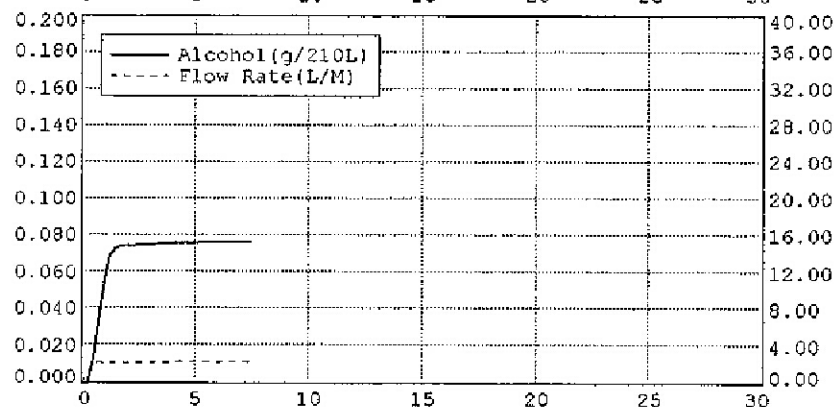
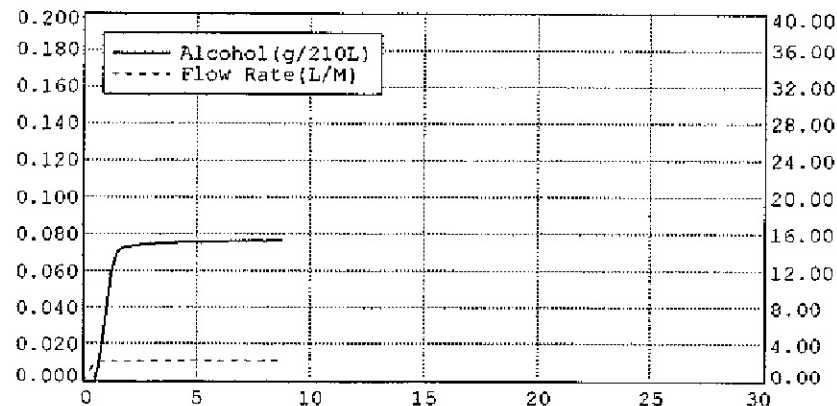
Date: 11/26/2013
Time: 14:27:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.077	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.077	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.077	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.078	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.077	14:34
BLANK TEST	0.000	14:35

Average = 0.0775
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100357

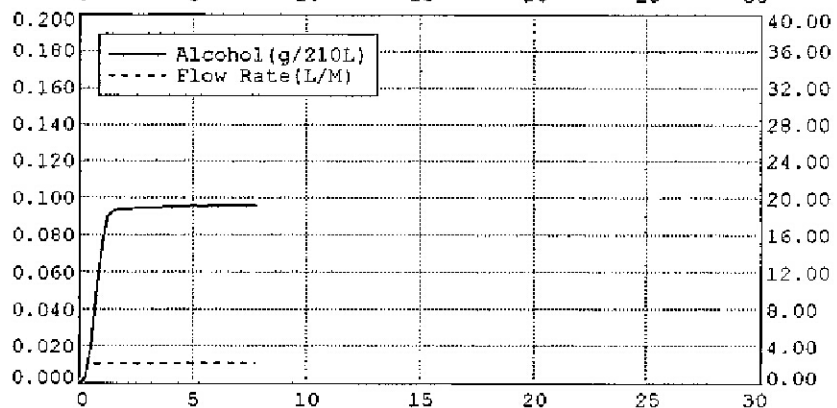
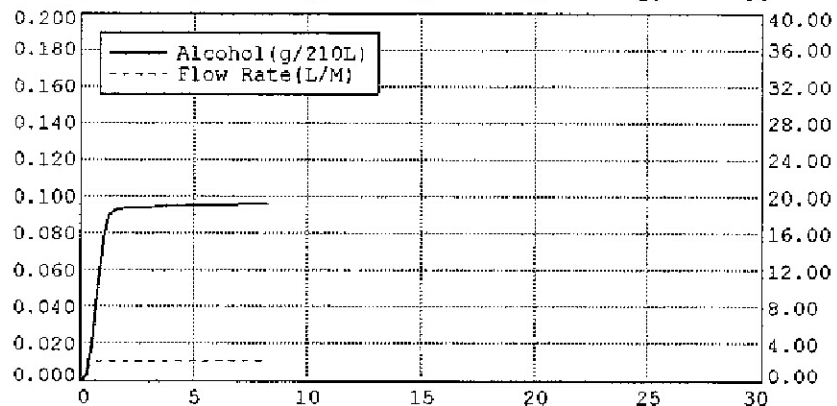
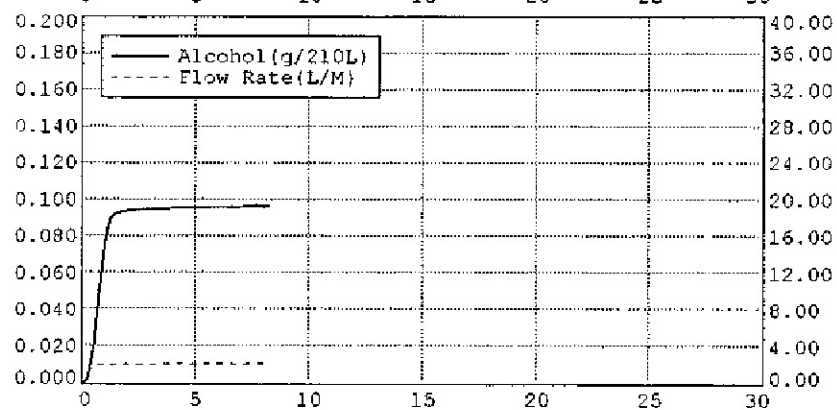
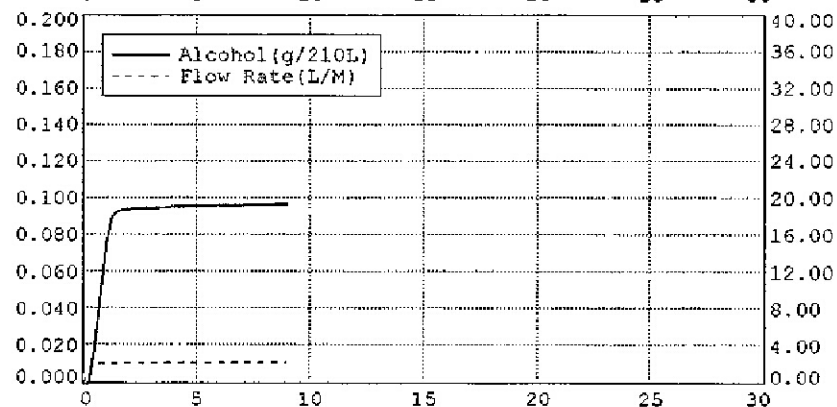
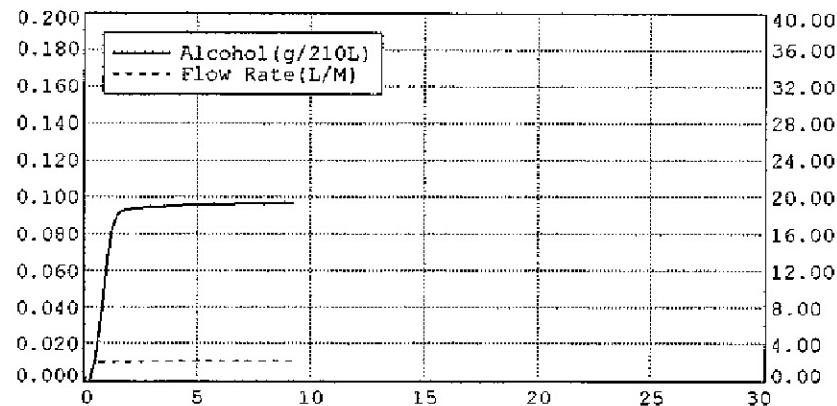
Date: 11/26/2013
Time: 14:36:22

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:37
INTERNAL STANDARD	VERIFIED	14:37
EXTERNAL STANDARD	0.097	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.097	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.097	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.097	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.097	14:42
BLANK TEST	0.000	14:43

Average = 0.0972
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dnt: 100357

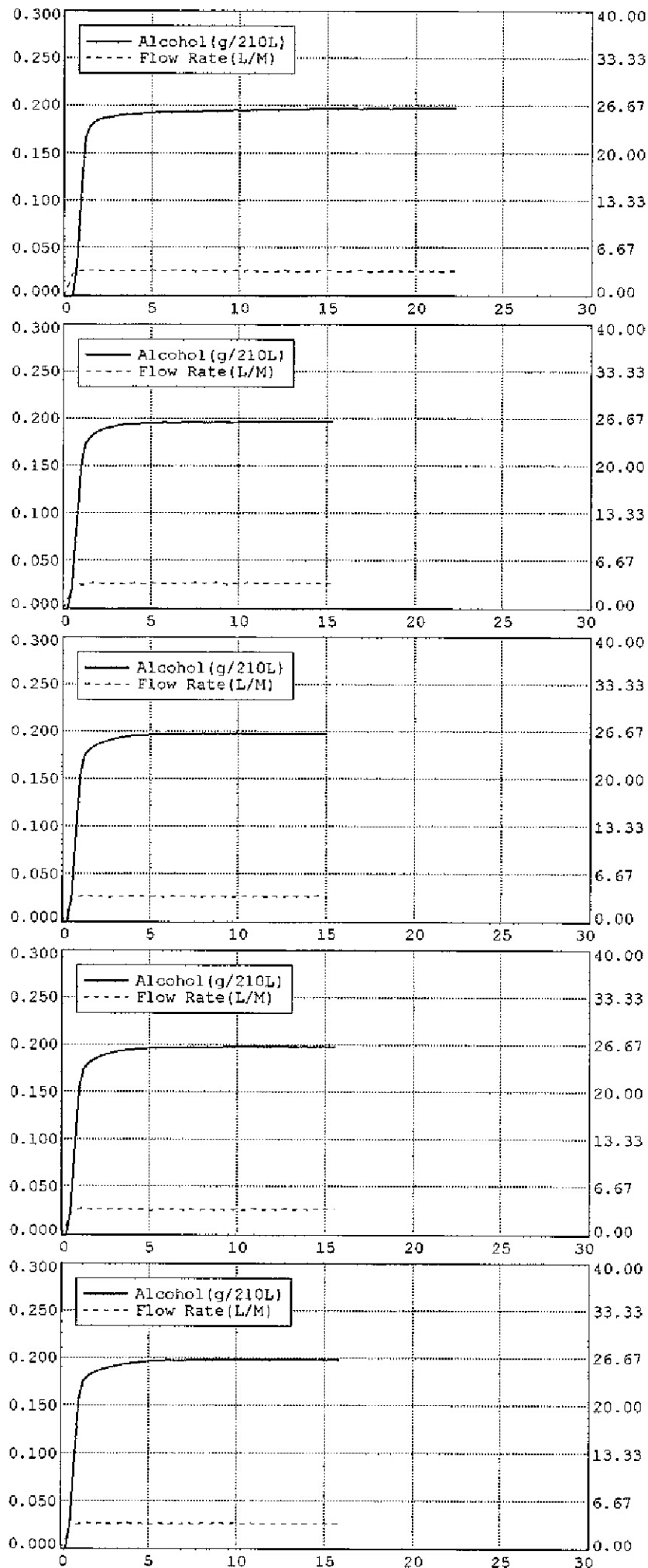
Date: 11/26/2013
Time: 14:44:28

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:45
EXTERNAL STANDARD	0.197	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.197	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.198	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.198	14:50
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.198	14:51
BLANK TEST	0.000	14:52

Average = 0.1979
Std Dev = 0.0008



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100357

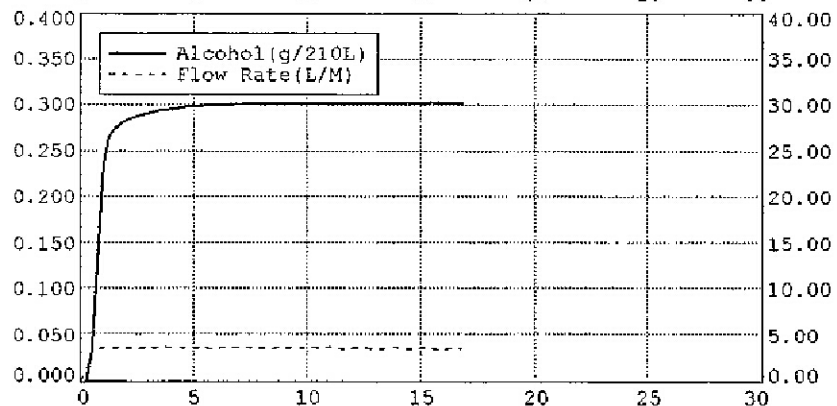
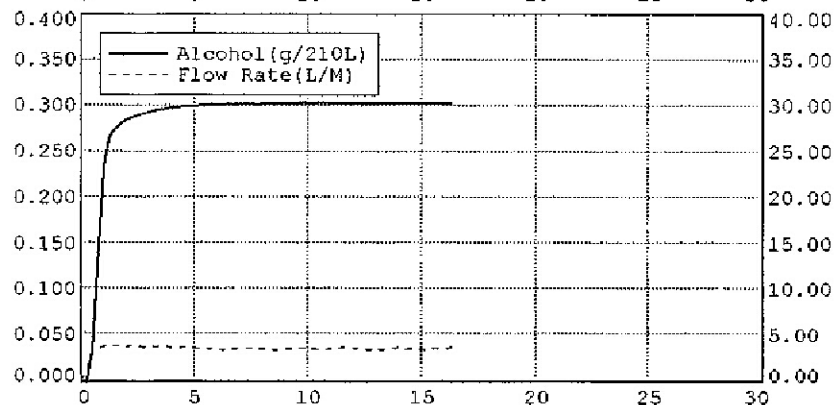
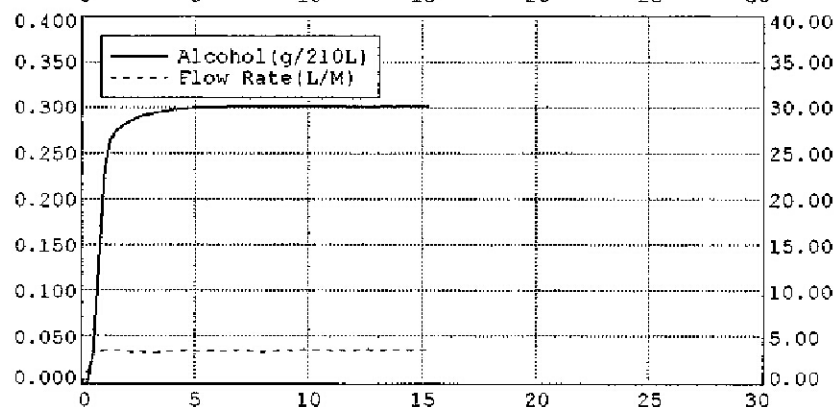
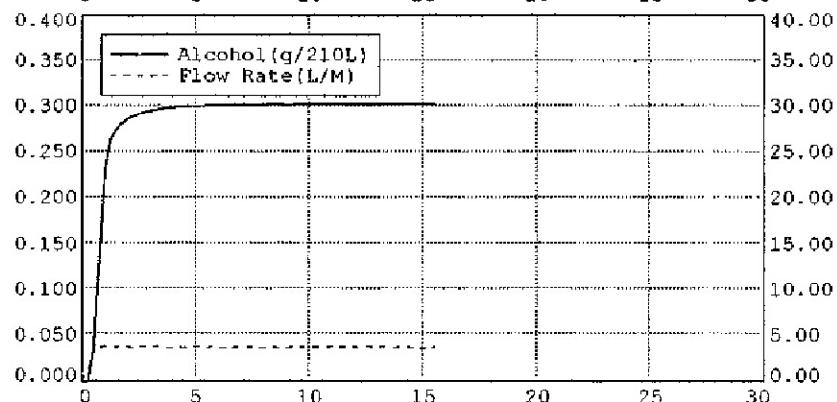
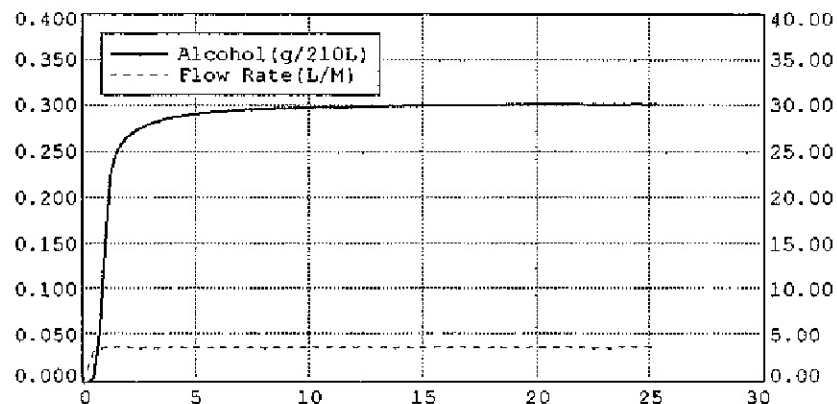
Date: 11/26/2013
Time: 14:54:11

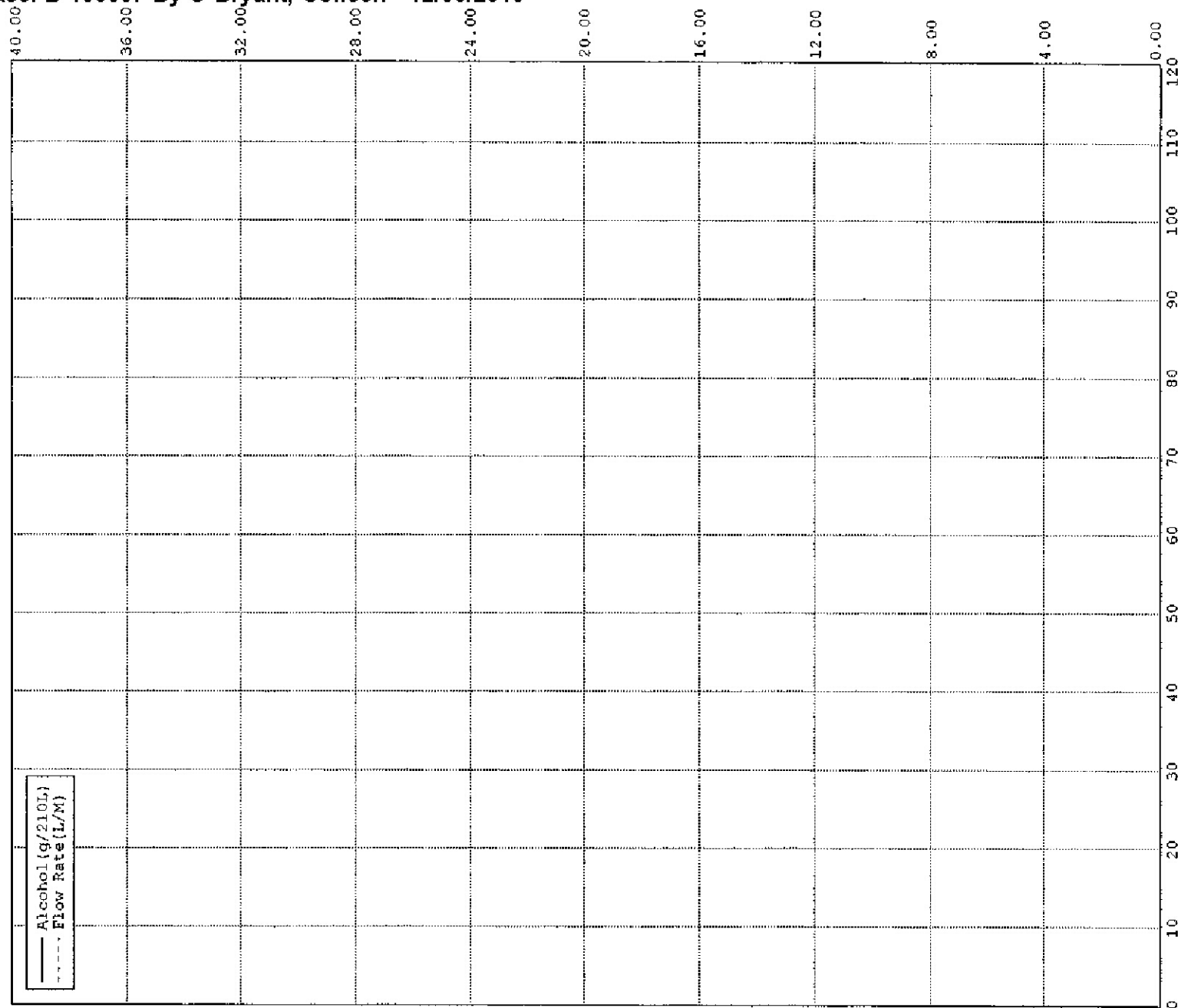
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
EXTERNAL STANDARD	0.301	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.301	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.301	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.302	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.301	15:01
BLANK TEST	0.000	15:02

Average = 0.3017
Std Dev = 0.0005





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 12/02/2013
Time: 14:05:02

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 30.42: 0.081

LOT #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

BLANK TEST

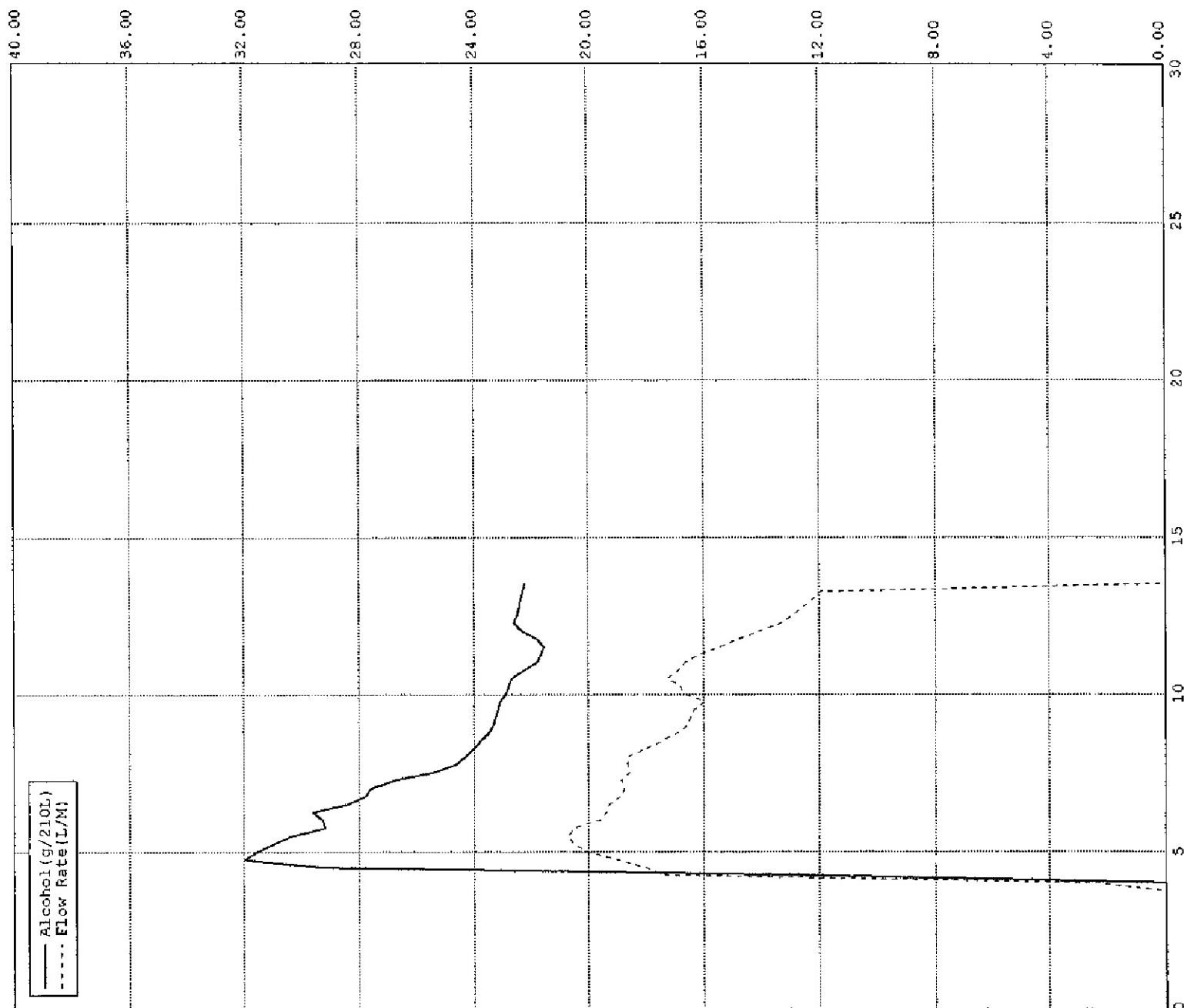
INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 14:06
0.000 14:06
VERIFIED 14:06
0.079 14:07
0.000 14:08
INCOMPLETE 14:10



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100357

Date: 12/02/2013
 Time: 14:16:17

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

DEPT/AGENCY:

AAA1

CASE/REPORT: 13-1234

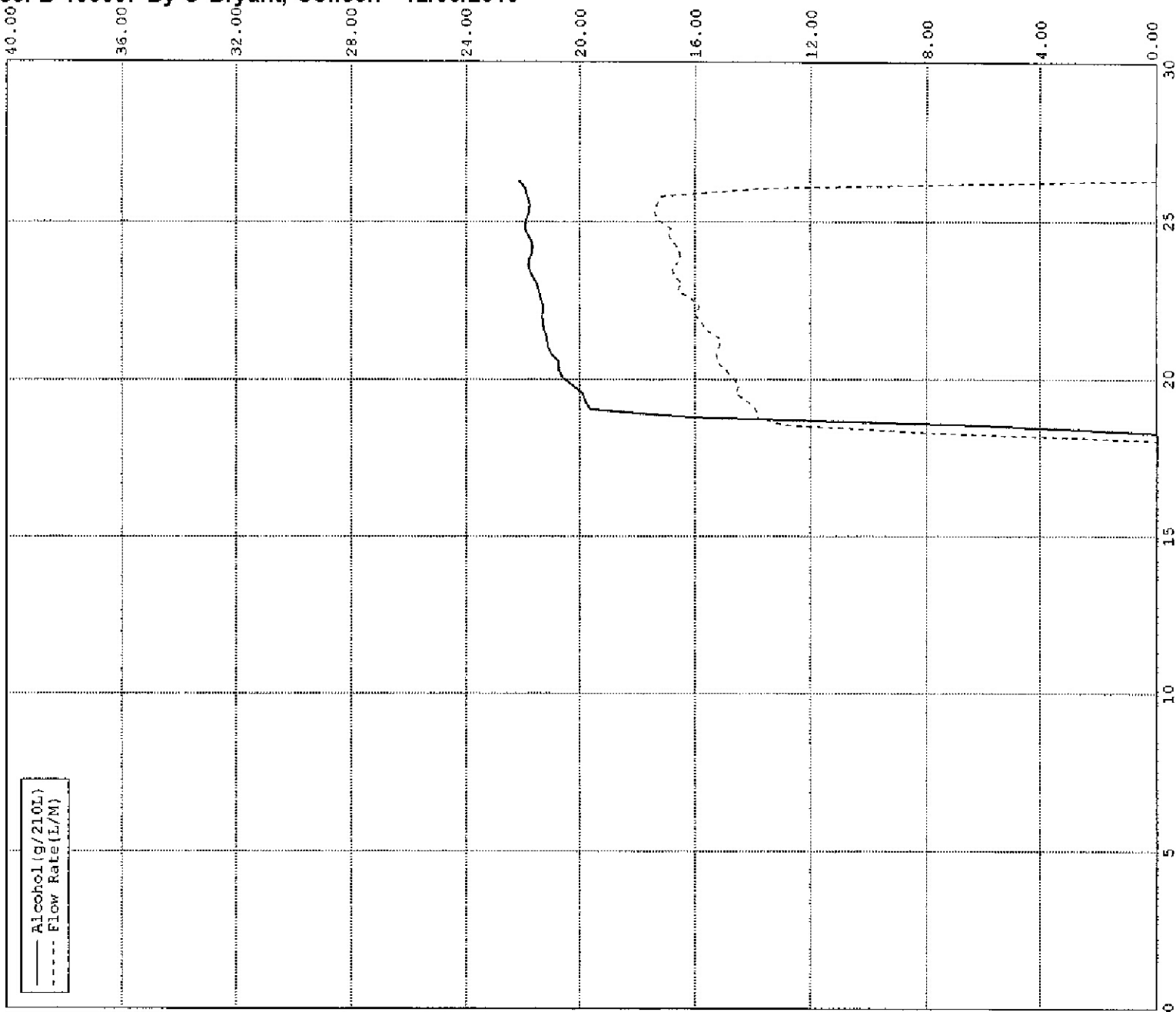
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 30.42: 0.081
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:17
BLANK TEST	0.000	14:17
INTERNAL STANDARD	VERIFIED	14:17
EXTERNAL STANDARD	0.079	14:17
BLANK TEST	0.000	14:18
SUBJECT SAMPLE	INVALID	14:19

CB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100357

Date: 12/02/2013
 Time: 14:21:19

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 30.42: 0.081

LOT #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

PASSED 14:22

BLANK TEST 0.000 14:22

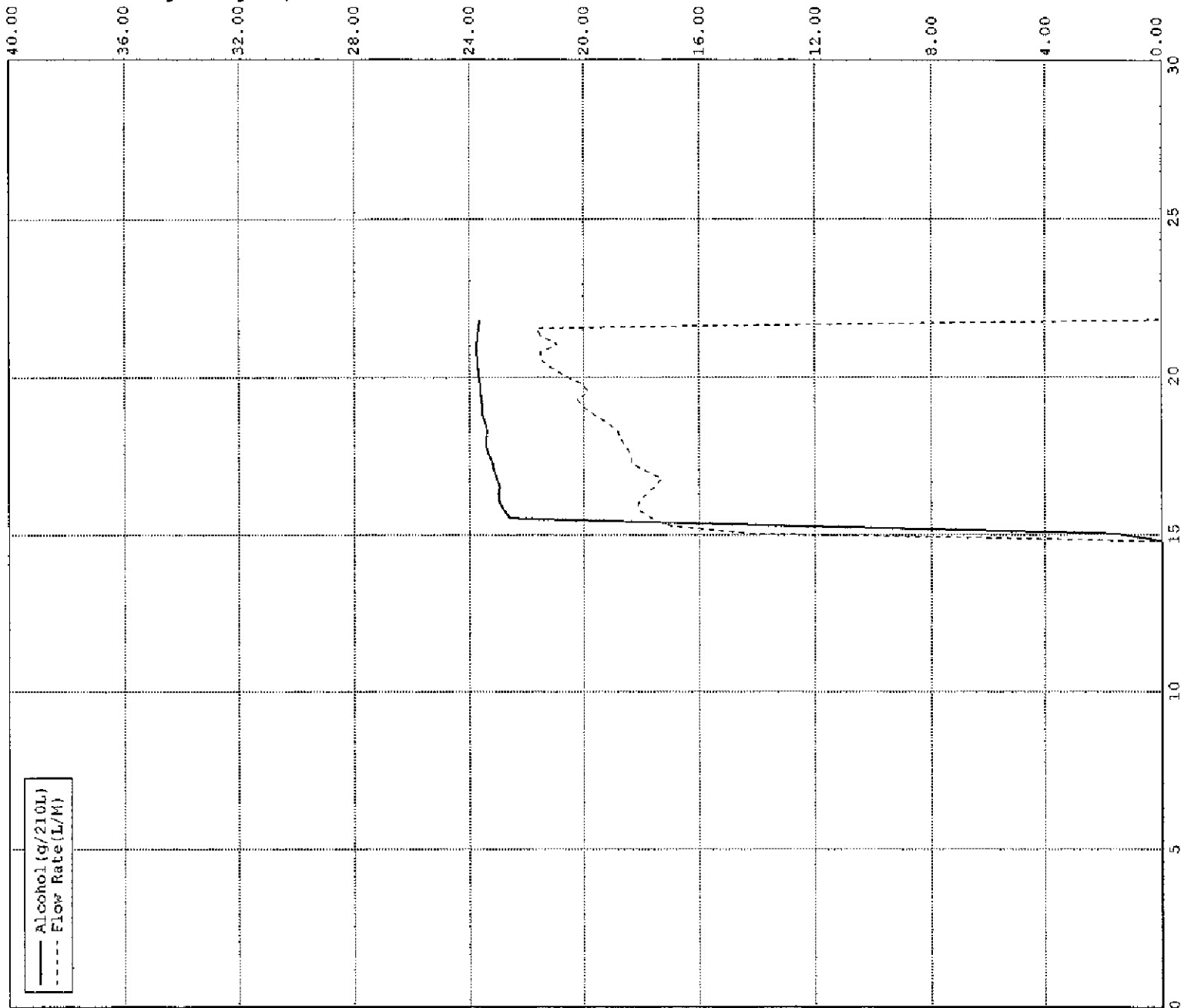
INTERNAL STANDARD VERIFIED 14:22

 $X_q = 0.088$ (0.50%) 0.079 14:22EXTERNAL STANDARD $X[1] = 0.0796$ (-0.0013) (0.0014)

BLANK TEST 0.000 14:23

SUBJECT SAMPLE INTERFERENCE 14:24

 $X[1] = 0.1096$ (-0.0140) (0.0020)



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100357

Date: 12/02/2013
 Time: 14:26:08

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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

DEPT/AGENCY:
 AAA1

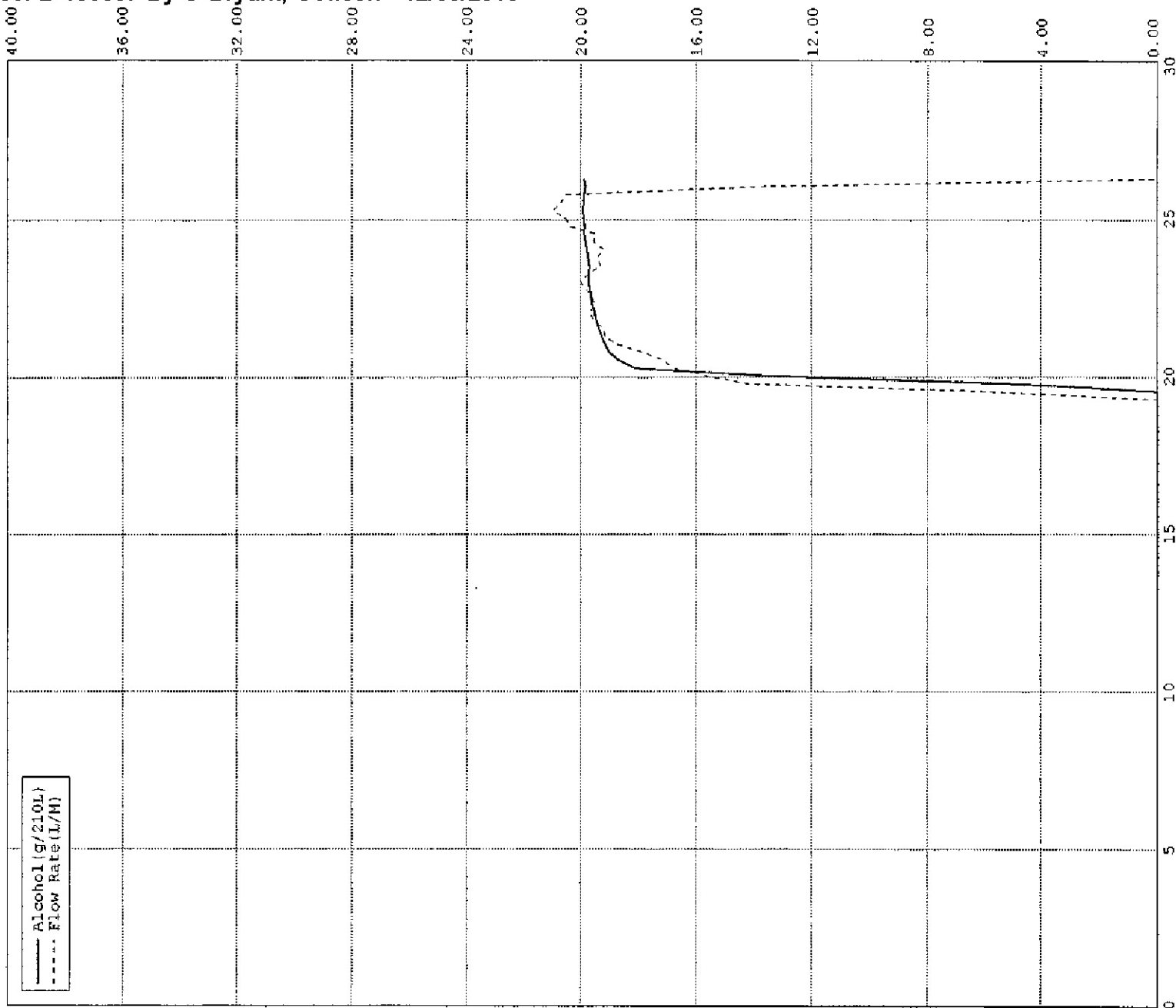
CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 30.42: 0.081
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:27
BLANK TEST	0.000	14:27
INTERNAL STANDARD	VERIFIED	14:27
$X_q = 0.087$ (0.40%)		
EXTERNAL STANDARD	0.079	14:27
$X[1] = 0.0792$ (-0.0021)	(0.0015)	
BLANK TEST	0.000	14:28
SUBJECT SAMPLE	INTERFERENCE	14:28
$X[1] = 0.1171$ (-0.0249)	(0.0001)	

OK



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100357

Date: 12/02/2013
 Time: 14:47:46

SUBJECT NAME:

TEST TEST
 LICENSE #: INT-NEG CONT

OPERATOR NAME:

COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 13-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

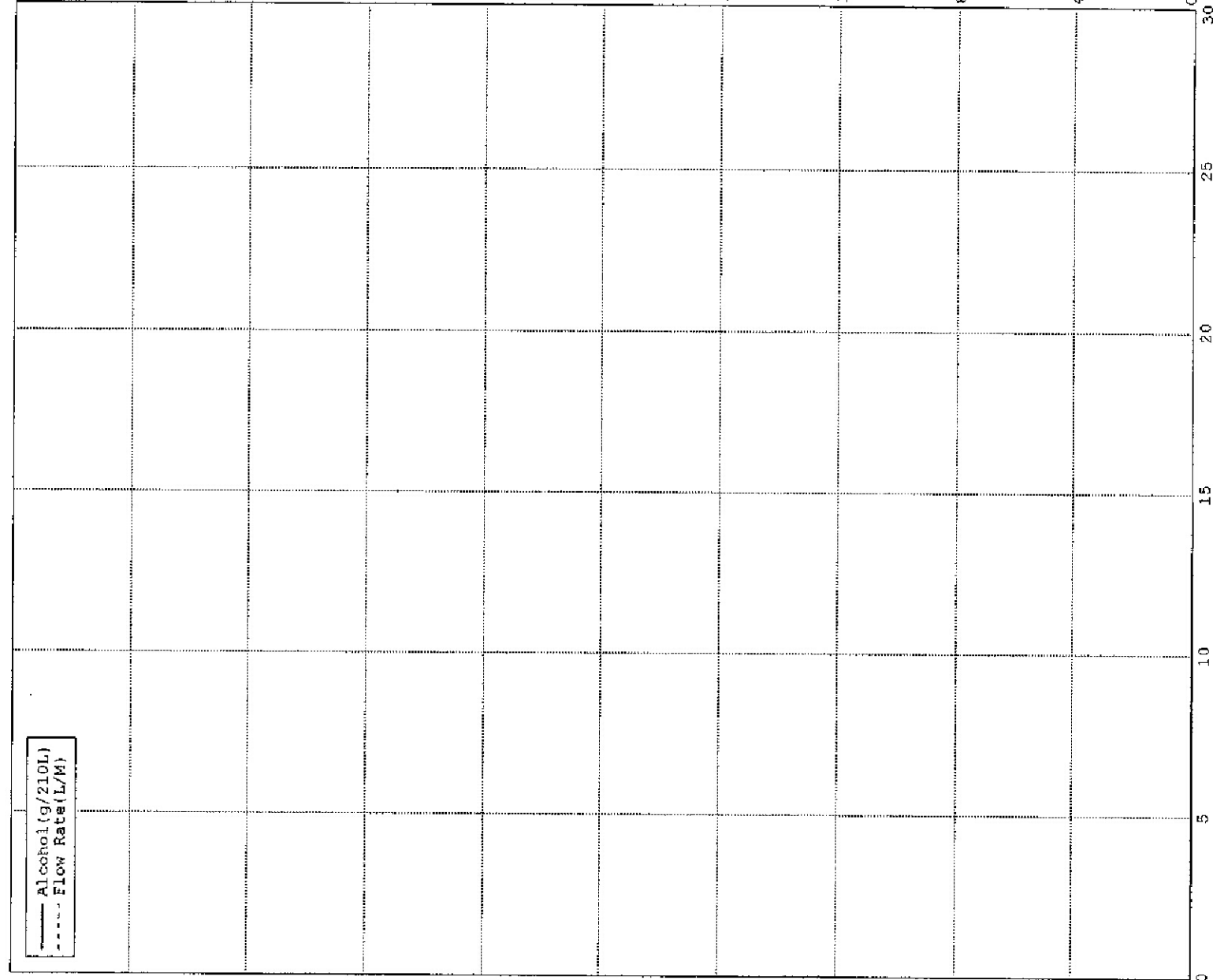
TARGET AT 30.41: 0.081

LOT #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:05
BLANK TEST	0.000	15:05
INTERNAL STANDARD	VERIFIED	15:06
$X_q = 0.088$ (0.10%)		
EXTERNAL STANDARD	0.079	15:06
$X\{1\} = 0.0797$ (-0.0014)	(0.0011)	
BLANK TEST	0.000	15:07
SUBJECT SAMPLE (Vol=2.07L)	0.098	15:07
$X\{1\} = 0.0984$ (0.0015)	(0.0008)	
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.079	15:08
$X\{1\} = 0.0794$ (-0.0016)	(0.0014)	
BLANK TEST	0.000	15:09

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100357

Date: 12/02/2013
Time: 15:13:12

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAA1

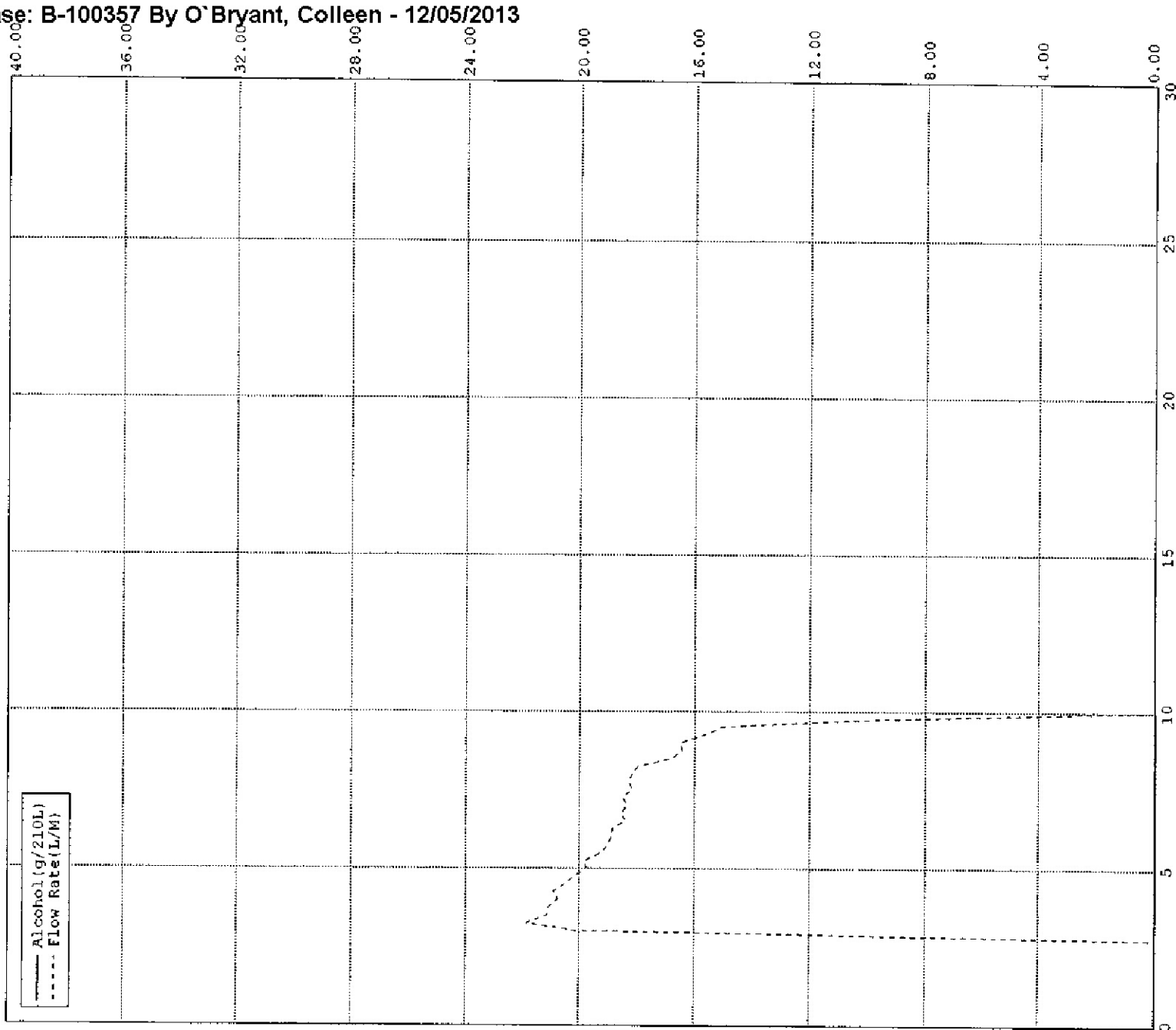
CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.41: 0.081
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:17
BLANK TEST	0.000	15:17
INTERNAL STANDARD	VERIFIED	15:17
EXTERNAL STANDARD	0.080	15:17
BLANK TEST	0.000	15:18

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100357

Date: 12/02/2013
Time: 15:29:19

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 #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

SUBJECT SAMPLE

BLANK TEST

EXTERNAL STANDARD

BLANK TEST

TEST TYPE	RESULT	TIME
PASSED	0.000	15:30
VERIFIED	0.079	15:30
BLANK TEST	0.000	15:31
INTERNAL STANDARD	0.000	15:31
EXTERNAL STANDARD	0.000	15:32
SUBJECT SAMPLE	0.080	15:33
BLANK TEST	0.000	15:34

Final page for report

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3/13/2014