

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100351 Analyst Colleen Start Date 4/25/2013

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 00813020A1 Exp 03/01/2015

ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 03/01/2015

iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2014

iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 03/01/2015

v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/13

1. Simulator S/N DR4162 Date Calibrated 10/08/2012

vi. 0.300g/210L Mnf Guth Lot 12050 Exp 03/31/2014

1. Simulator S/N DR4163 Date Calibrated 10/08/2012

5. Functional Tests (attached)

a. Incomplete ☒

b. Invalid ☒

c. Interference ☒

i. Acetone - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N DR5298 Date Calibrated 10/8/12

ii. Isopropanol - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N SD1202 Date Calibrated 10/9/12

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N SD1176 Date Calibrated 10/9/12

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 4/26/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 04/26/2013
Time: 07:41:37

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 46.2°C	PASSED

PUMP INFO	
Flow Rate = 5.303 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
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Technician Screen

DATAMASTER dmt: 100351

Date: 04/26/2013

Time: 8:03 AM

Temperatures (°C)

Sample Cell: 49.6°C

Breath Tube: 47.2°C

Current Barometer 29.2 in

Volume (Ltr) 1.51

Settings

Lamp: 2.45 V

Bias: 80 V

Cooler: 1.98 V

Chopper: 523 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.023 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100351

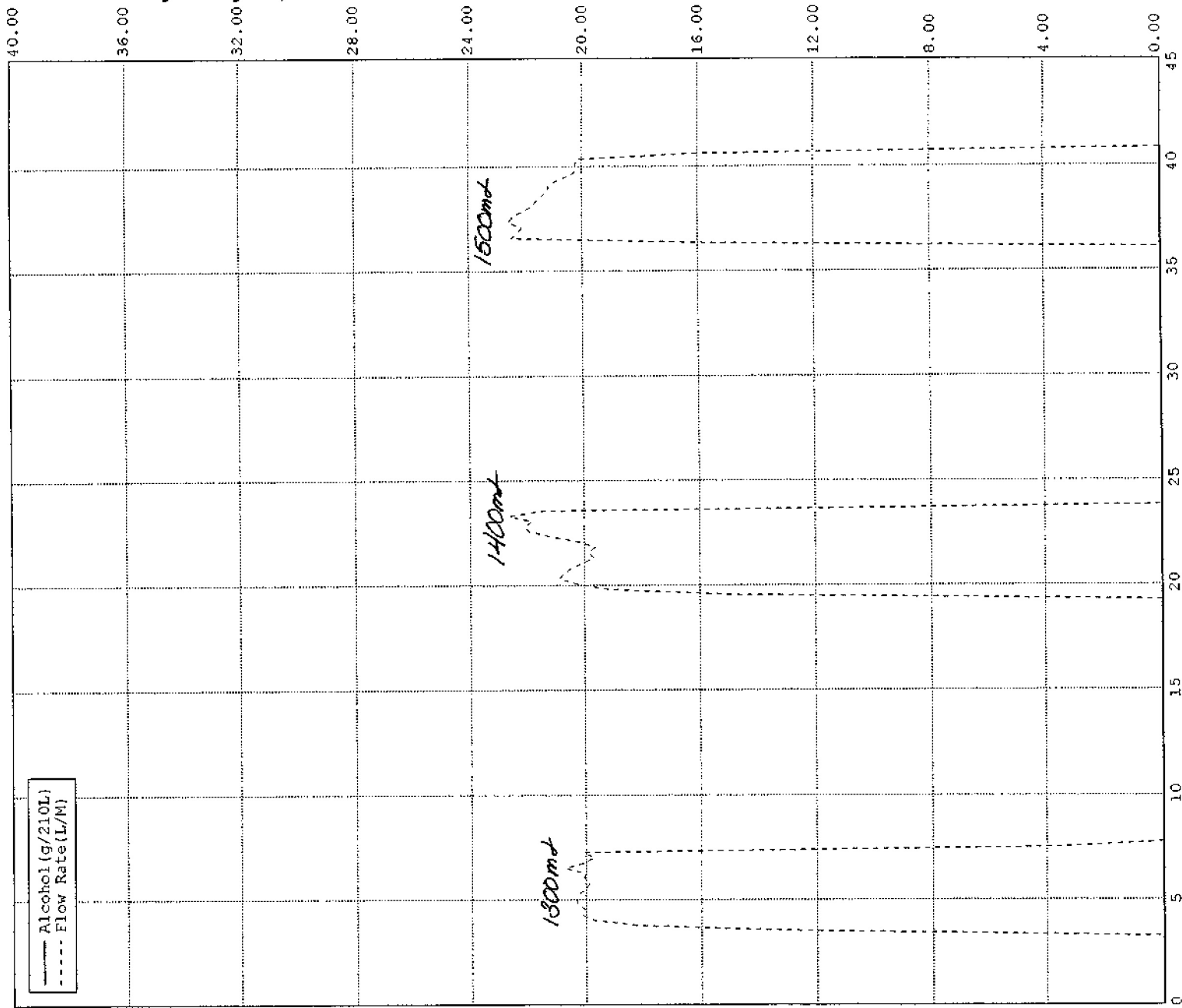
Date: 03/22/2011
Time: 12:15:56

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

Ca = 0.1000
CAL = 0.957594 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0050 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0981 0.0500 <= Xq < 0.2000
a21 = 1.158813 1.050 <= a21 < 1.300
a31 = 0.473654 0.300 <= a31 < 0.800

084/19



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER cmt: 100351

Date: 04/26/2013

Time: 08:06:36

SUBJECT NAME:

TEST TEST

LICENSE #: VOLUME

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 29.22: 0.078

LOT #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

BLANK TEST

EXTERNAL STANDARD

BLANK TEST

PASSED 08:12
0.000 08:12
VERIFIED 08:12
0.076 08:12
0.000 08:13
0.000 08:14
0.000 08:15
0.078 08:15
0.000 08:16

CAB

CAB 5/19

LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

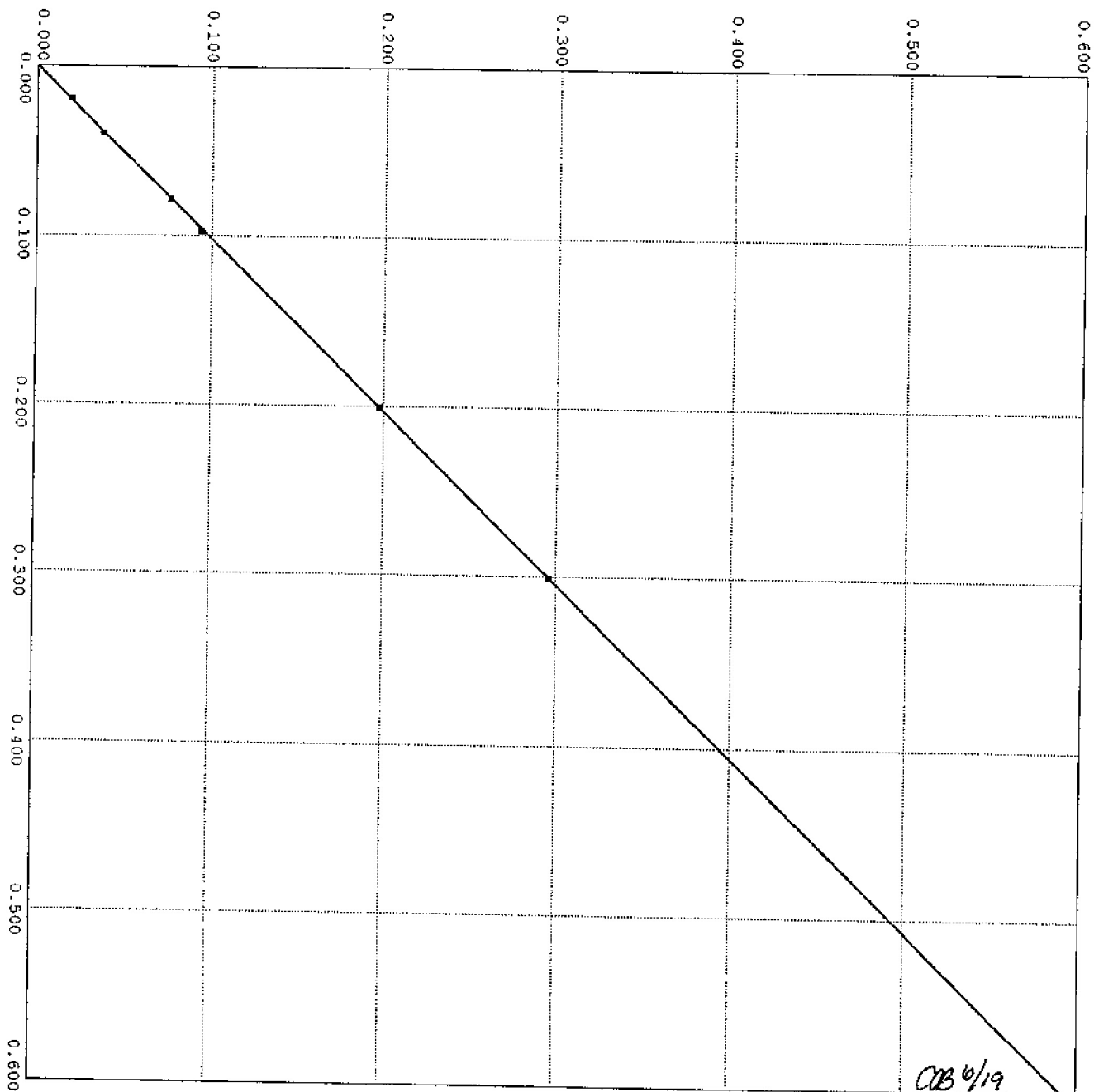
Date: 04/26/2013
 Time: 08:42:02

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0205	0.0003
0.039	0.0389	0.0002
0.078	0.0774	0.0002
0.097	0.0950	0.0002
0.200	0.1986	0.0004
0.300	0.2967	0.0003

SLOPE = 0.986728
 R^2 = 0.999937

CCB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100351

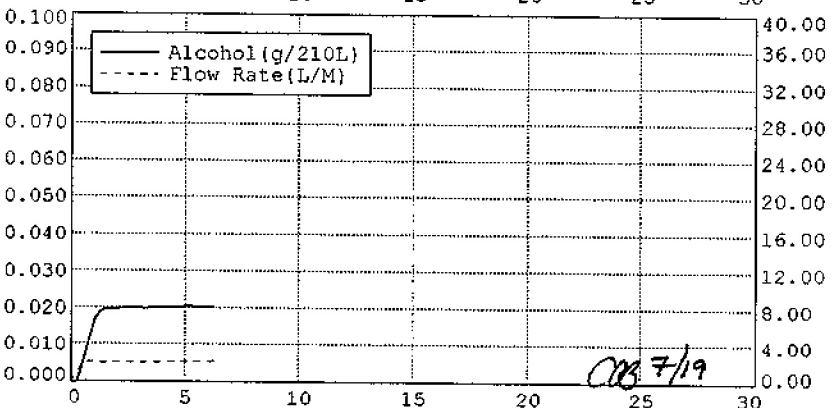
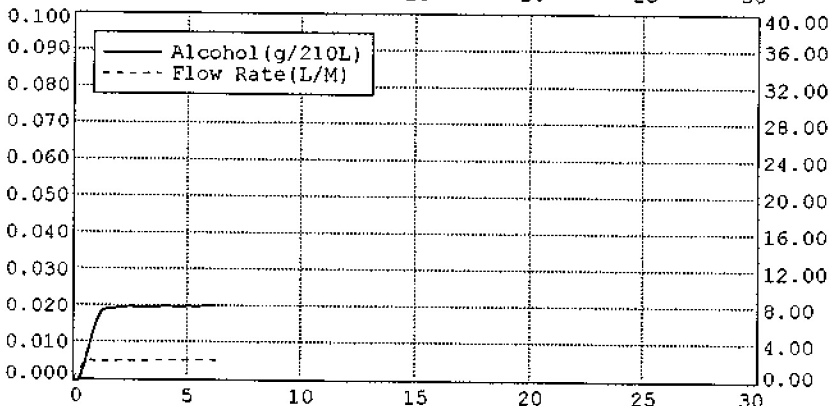
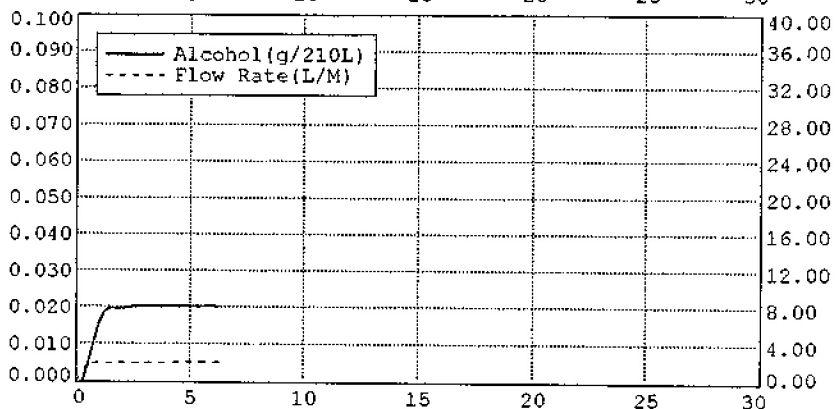
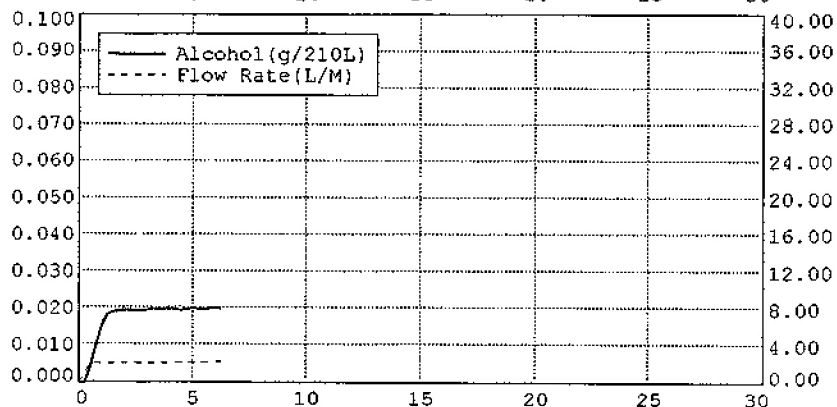
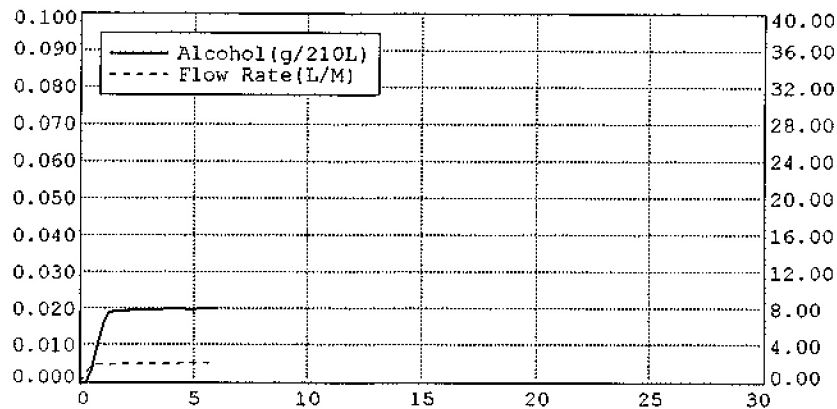
Date: 04/26/2013
Time: 08:42:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.22: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	08:49
INTERNAL STANDARD	VERIFIED	08:50
EXTERNAL STANDARD	0.020	08:50
BLANK TEST	0.000	08:51
EXTERNAL STANDARD	0.020	08:51
BLANK TEST	0.000	08:52
EXTERNAL STANDARD	0.020	08:52
BLANK TEST	0.000	08:53
EXTERNAL STANDARD	0.020	08:53
BLANK TEST	0.000	08:54
EXTERNAL STANDARD	0.020	08:54
BLANK TEST	0.000	08:55

Average = 0.0205
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100351

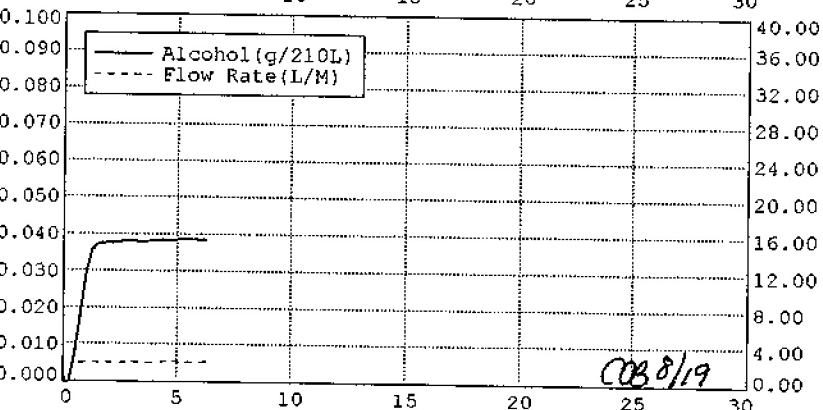
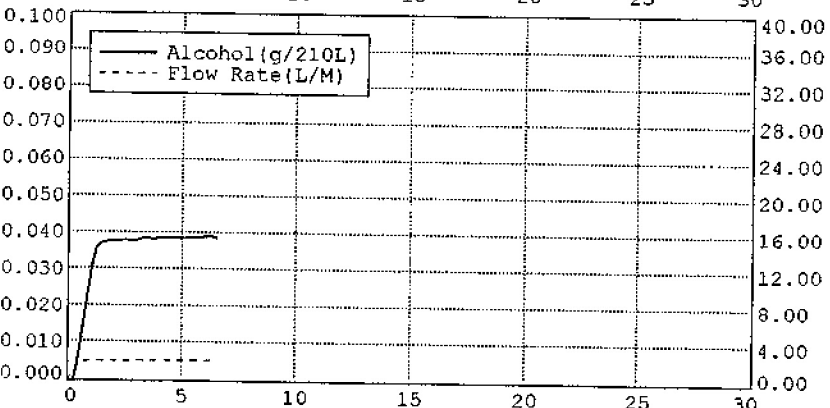
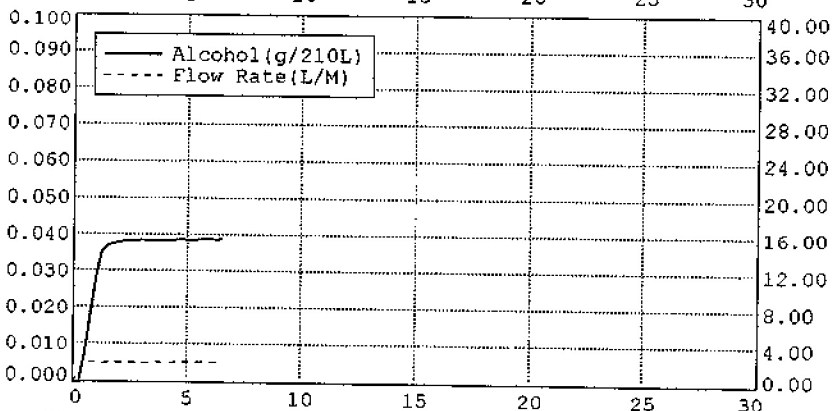
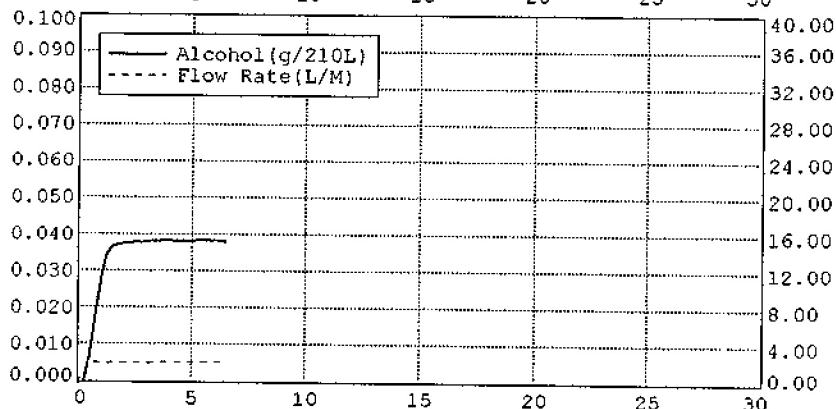
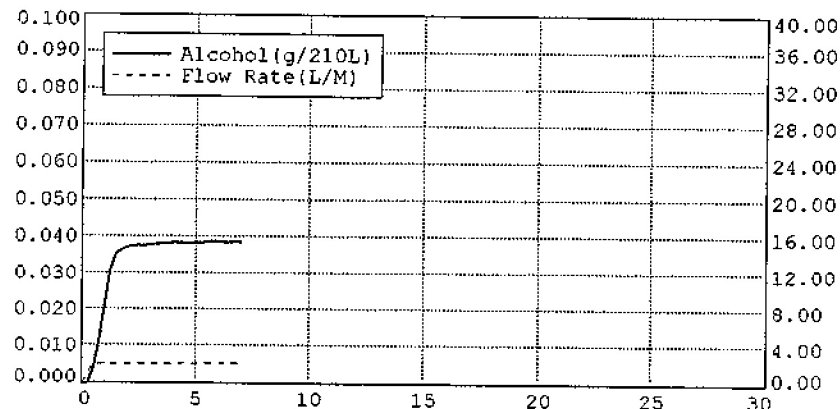
Date: 04/26/2013
Time: 08:58:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.22: 0.039
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:00
INTERNAL STANDARD	VERIFIED	09:00
EXTERNAL STANDARD	0.038	09:00
BLANK TEST	0.000	09:01
EXTERNAL STANDARD	0.038	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.039	09:02
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.038	09:03
BLANK TEST	0.000	09:04
EXTERNAL STANDARD	0.038	09:05
BLANK TEST	0.000	09:05

Average = 0.0389
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100351

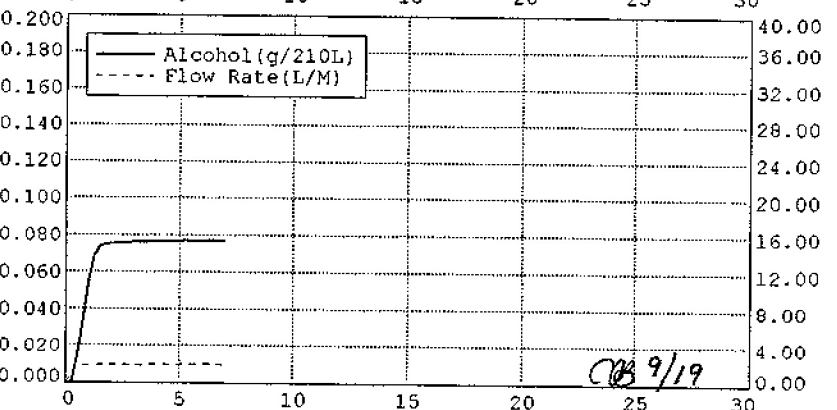
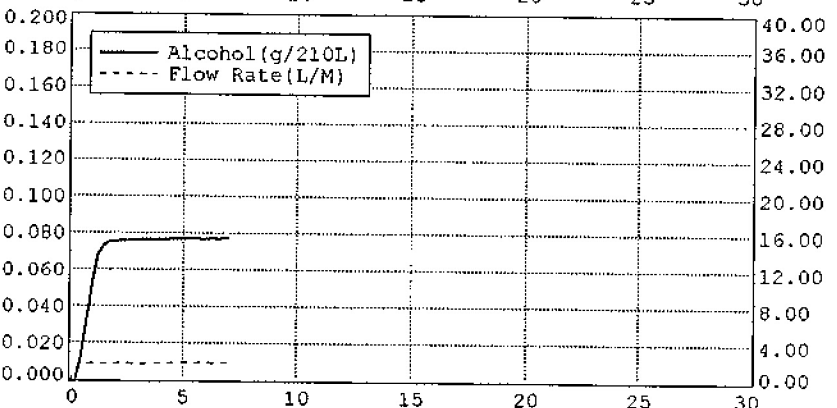
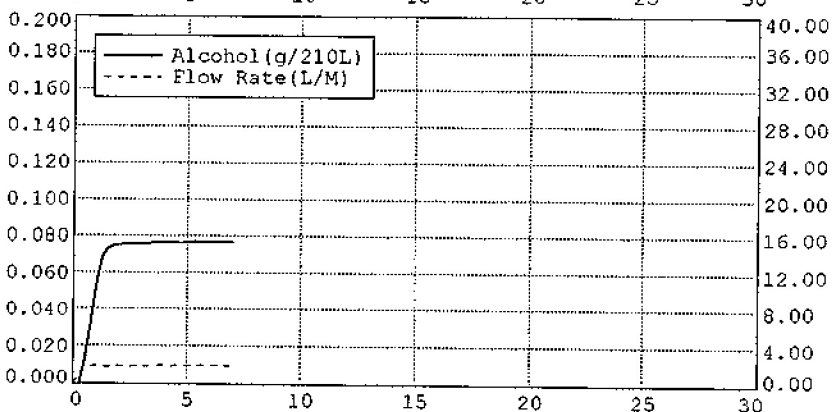
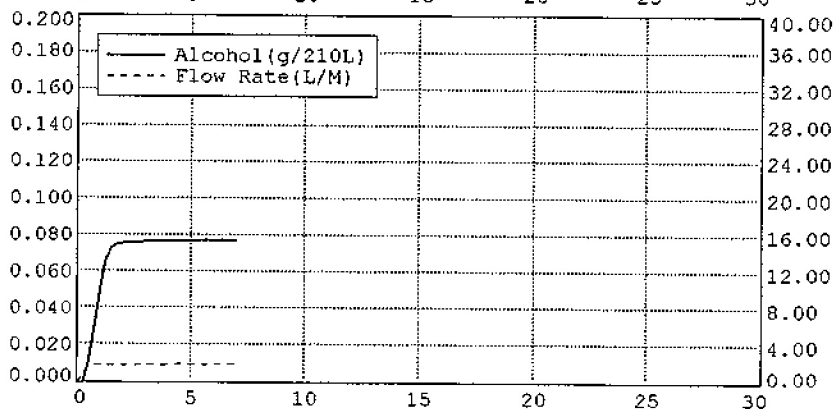
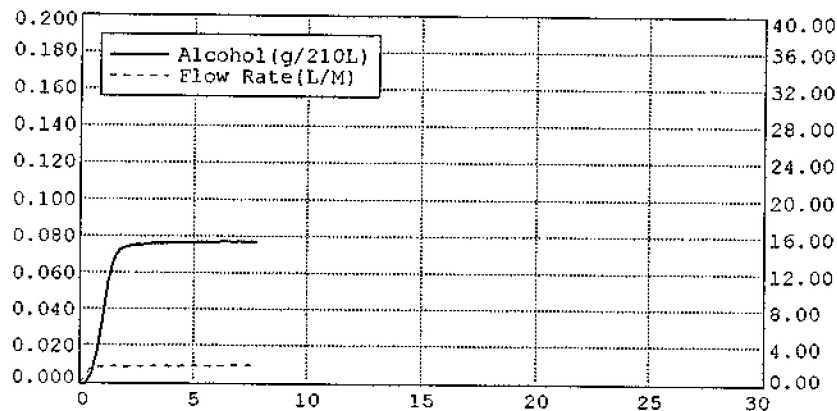
Date: 04/26/2013
Time: 09:08:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	09:09
INTERNAL STANDARD	VERIFIED	09:09
EXTERNAL STANDARD	0.077	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.077	09:11
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.077	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.077	09:13
BLANK TEST	0.000	09:14
EXTERNAL STANDARD	0.077	09:14
BLANK TEST	0.000	09:15

Average = 0.0774
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100351

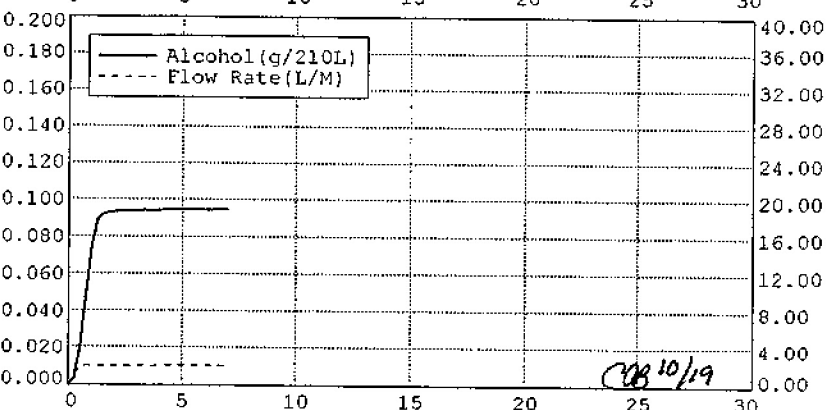
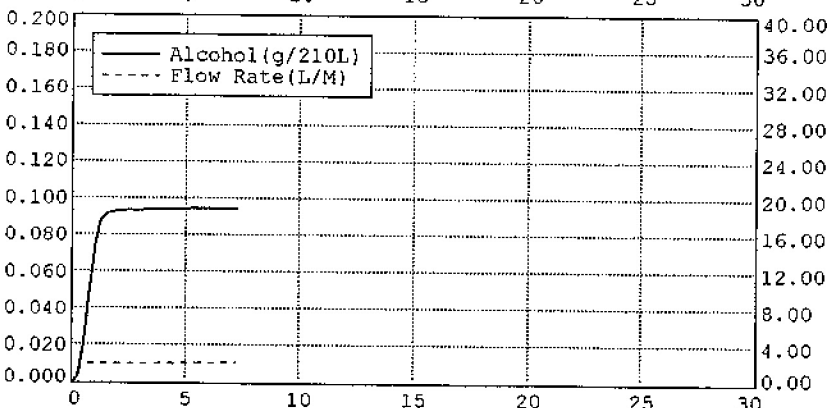
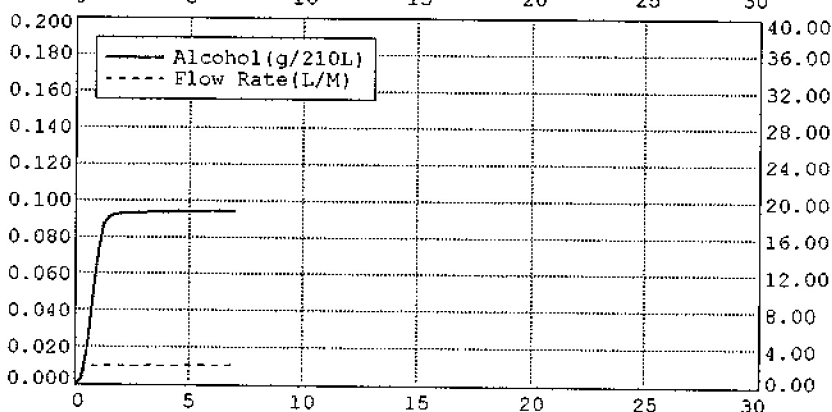
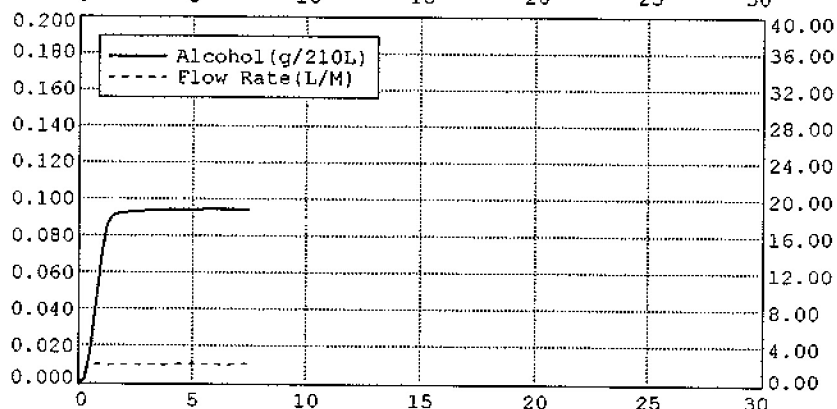
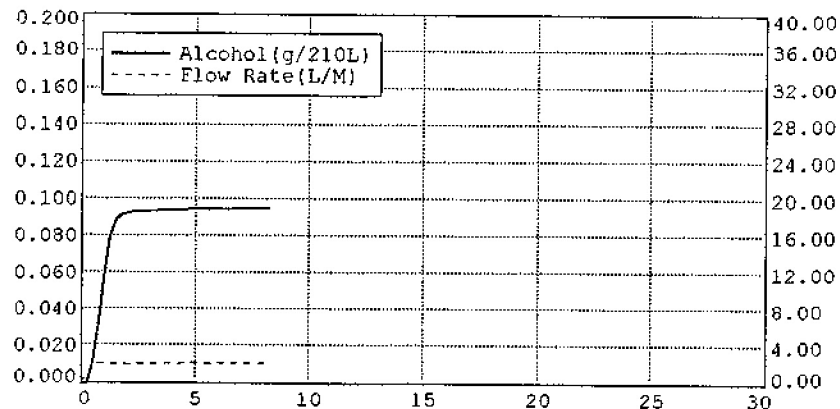
Date: 04/26/2013
Time: 09:17:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.22: 0.097
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:19
INTERNAL STANDARD	VERIFIED	09:19
EXTERNAL STANDARD	0.095	09:20
BLANK TEST	0.000	09:21
EXTERNAL STANDARD	0.095	09:21
BLANK TEST	0.000	09:22
EXTERNAL STANDARD	0.094	09:22
BLANK TEST	0.000	09:23
EXTERNAL STANDARD	0.094	09:23
BLANK TEST	0.000	09:24
EXTERNAL STANDARD	0.095	09:24
BLANK TEST	0.000	09:25

Average = 0.0950
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 04/26/2013
Time: 09:30:00

EXTERNAL STANDARD INFORMATION

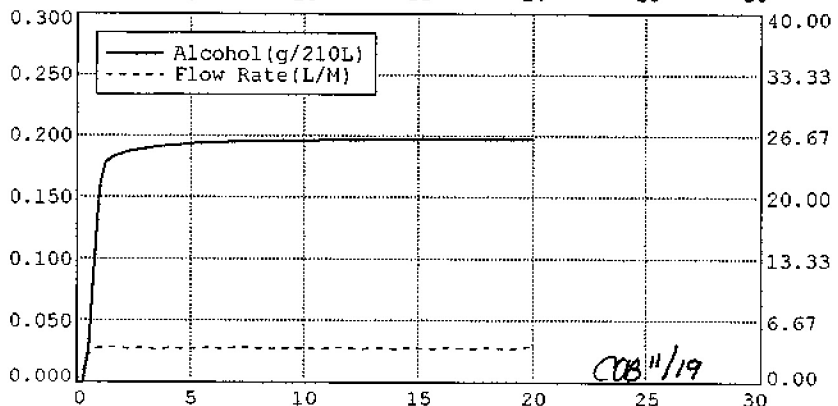
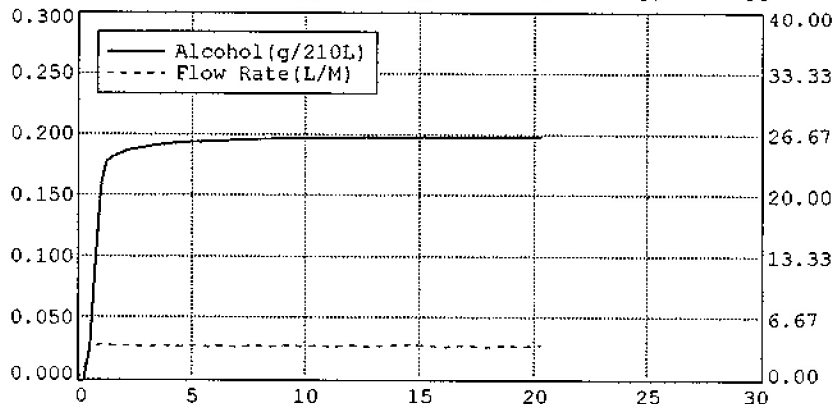
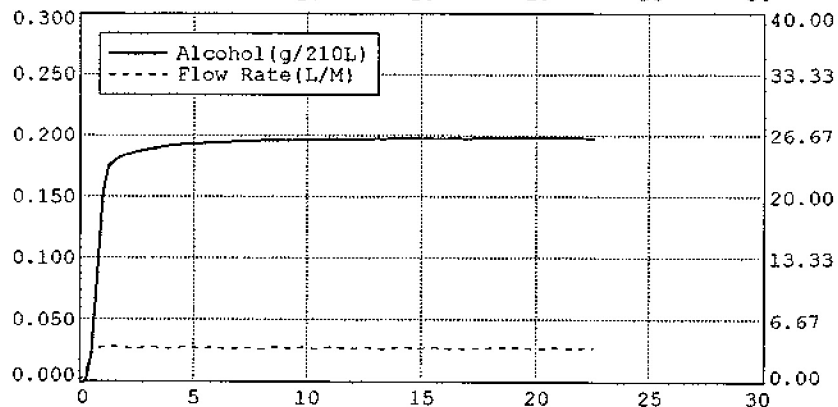
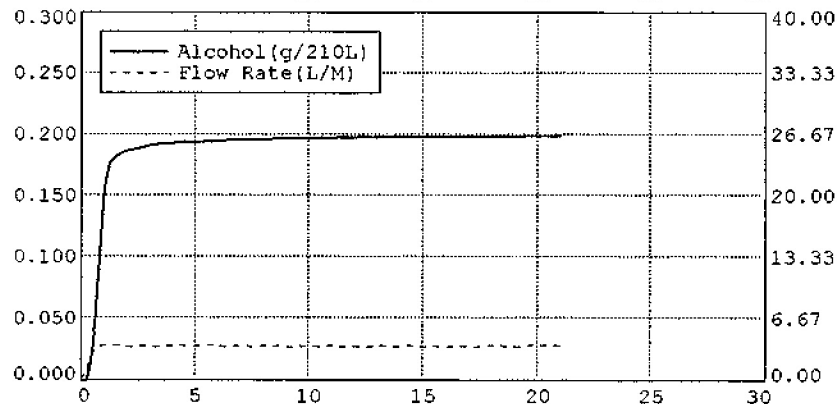
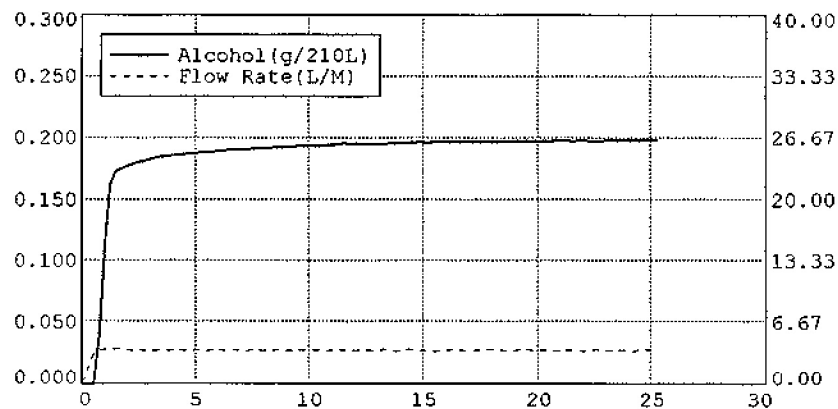
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	09:31
INTERNAL STANDARD	VERIFIED	09:31
EXTERNAL STANDARD	0.198	09:32
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.199	09:33
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.198	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.198	09:36
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.198	09:38
BLANK TEST	0.000	09:39

Average = 0.1986
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100351

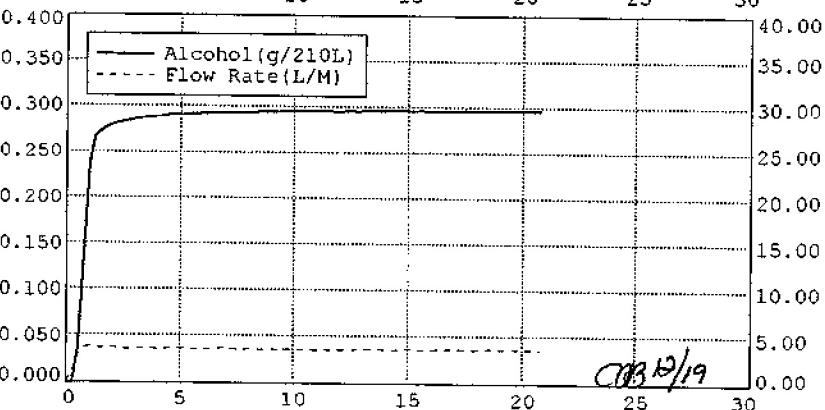
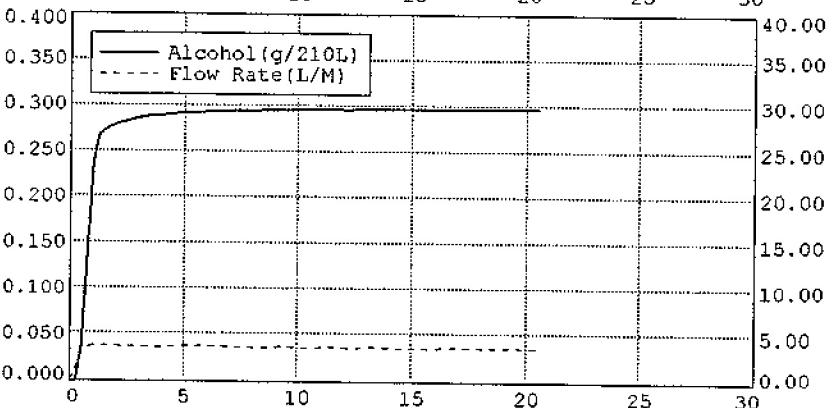
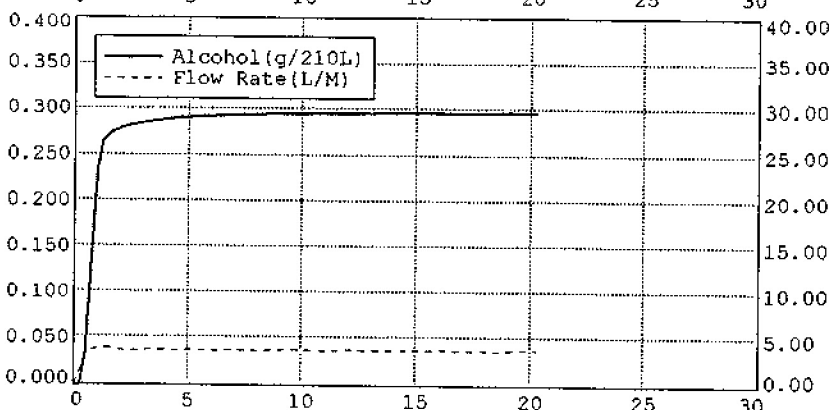
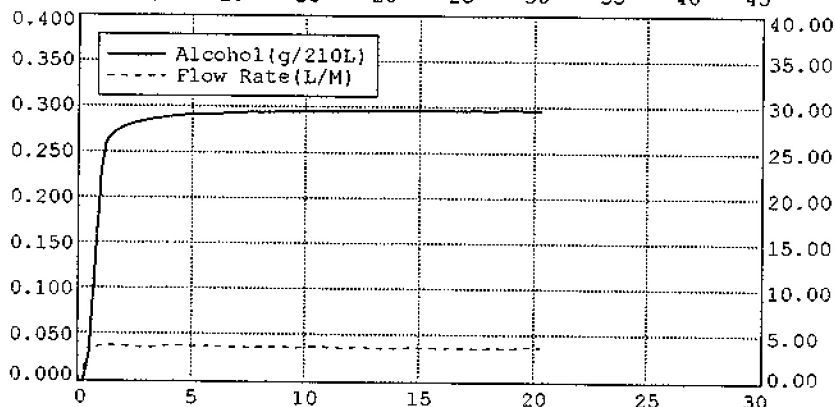
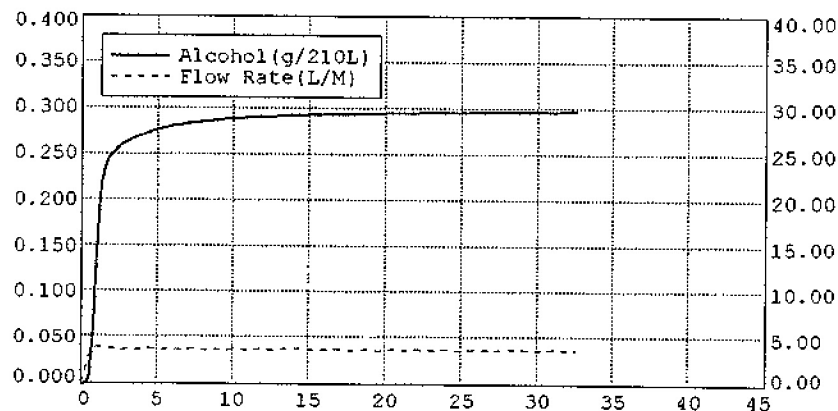
Date: 04/26/2013
Time: 09:41:44

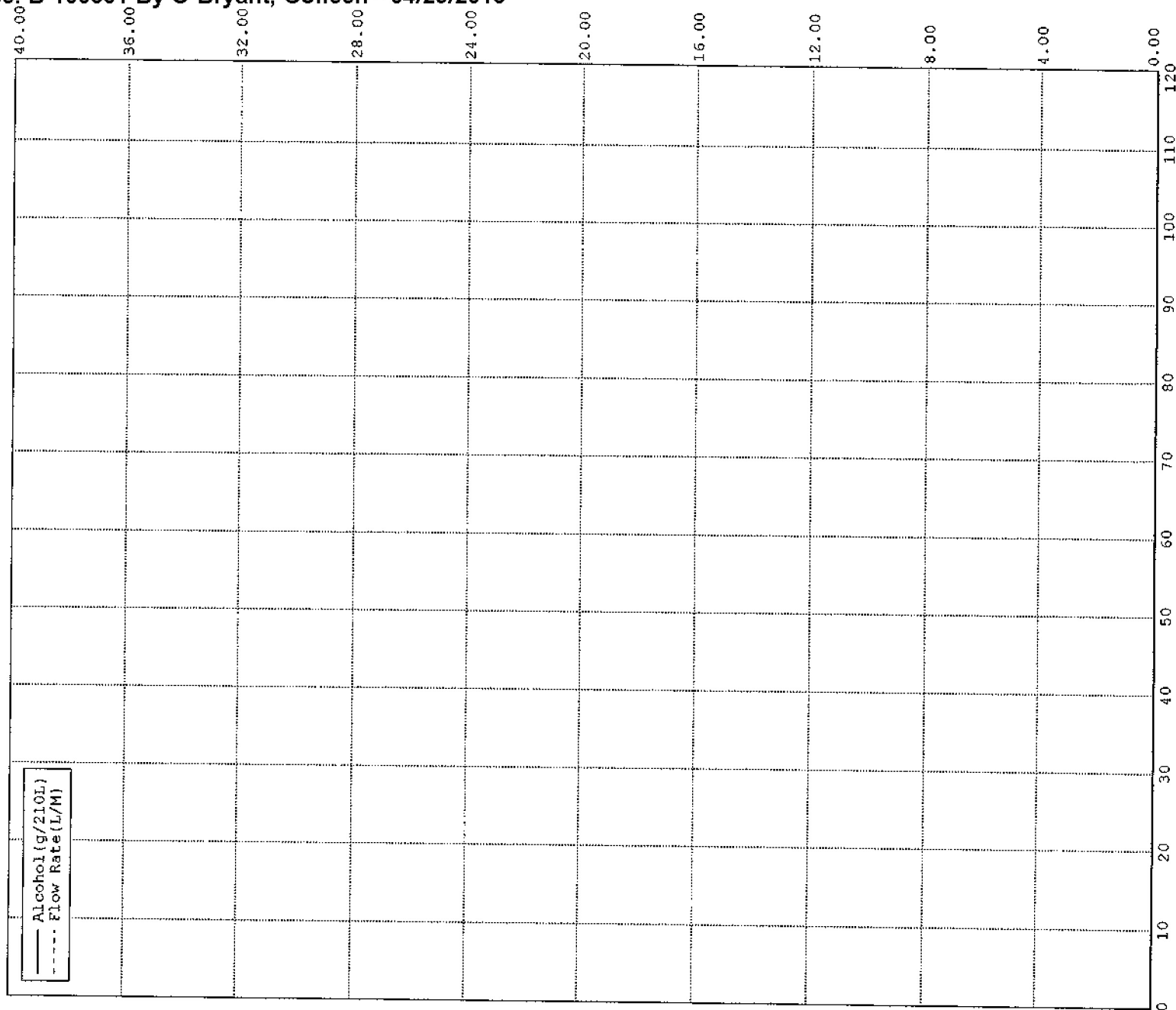
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 12050
EXPIRATION: 03/21/2014

BLANK TEST	0.000	09:43
INTERNAL STANDARD	VERIFIED	09:43
EXTERNAL STANDARD	0.296	09:43
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.296	09:45
BLANK TEST	0.000	09:46
EXTERNAL STANDARD	0.296	09:46
BLANK TEST	0.000	09:47
EXTERNAL STANDARD	0.297	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.296	09:49
BLANK TEST	0.000	09:50

Average = 0.2967
Std Dev = 0.0003





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 04/26/2013
Time: 10:02:11

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAA1

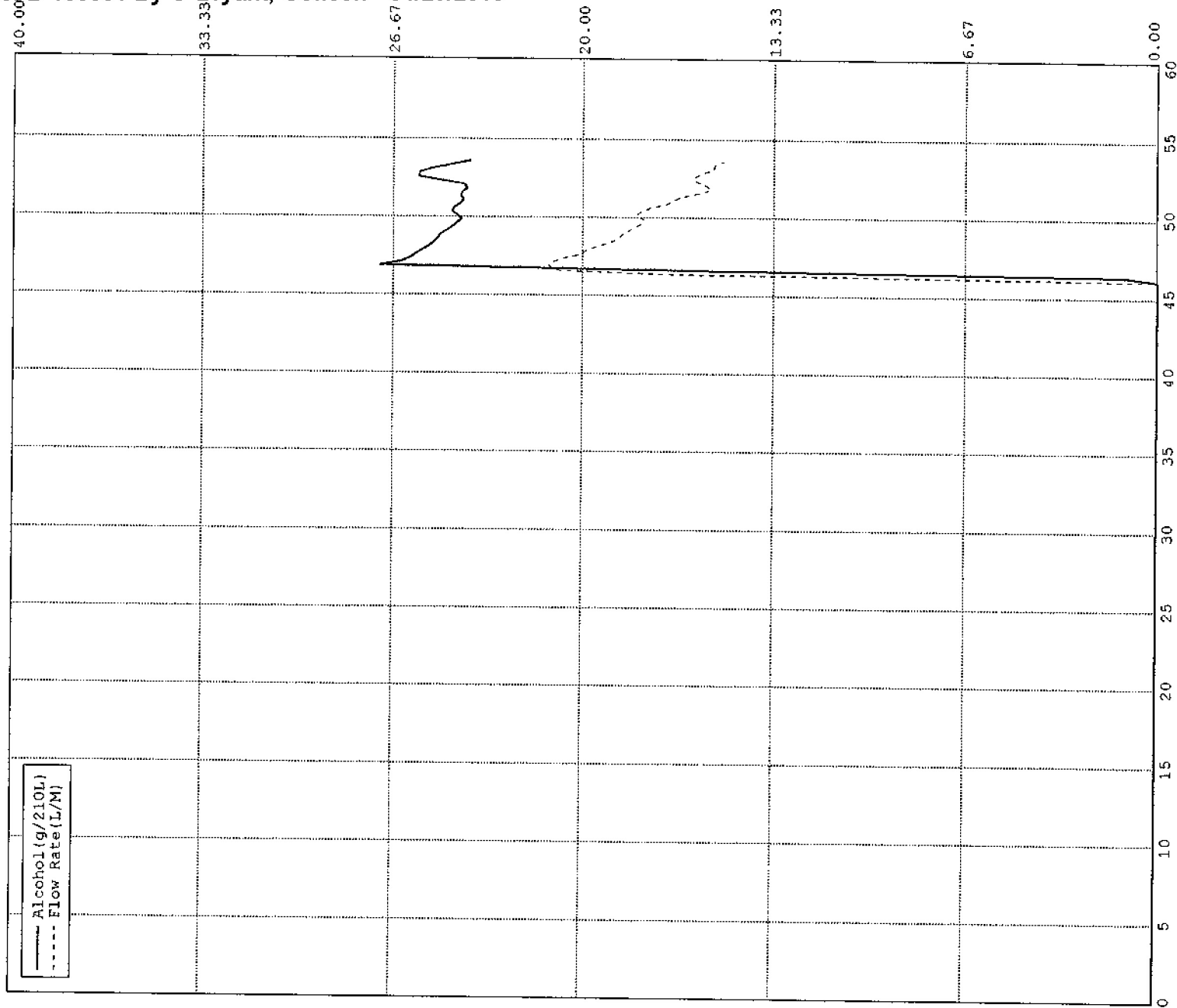
CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.21: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 10:03
BLANK TEST 0.000 10:03
INTERNAL STANDARD VERIFIED 10:03
EXTERNAL STANDARD 0.077 10:03
BLANK TEST 0.000 10:04
SUBJECT SAMPLE INCOMPLETE 10:06

CAB

CAB 13/19



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 04/26/2013
Time: 10:18:34

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAAI

CASE/REPORT: 13-1234
TEST TYPE: TEST

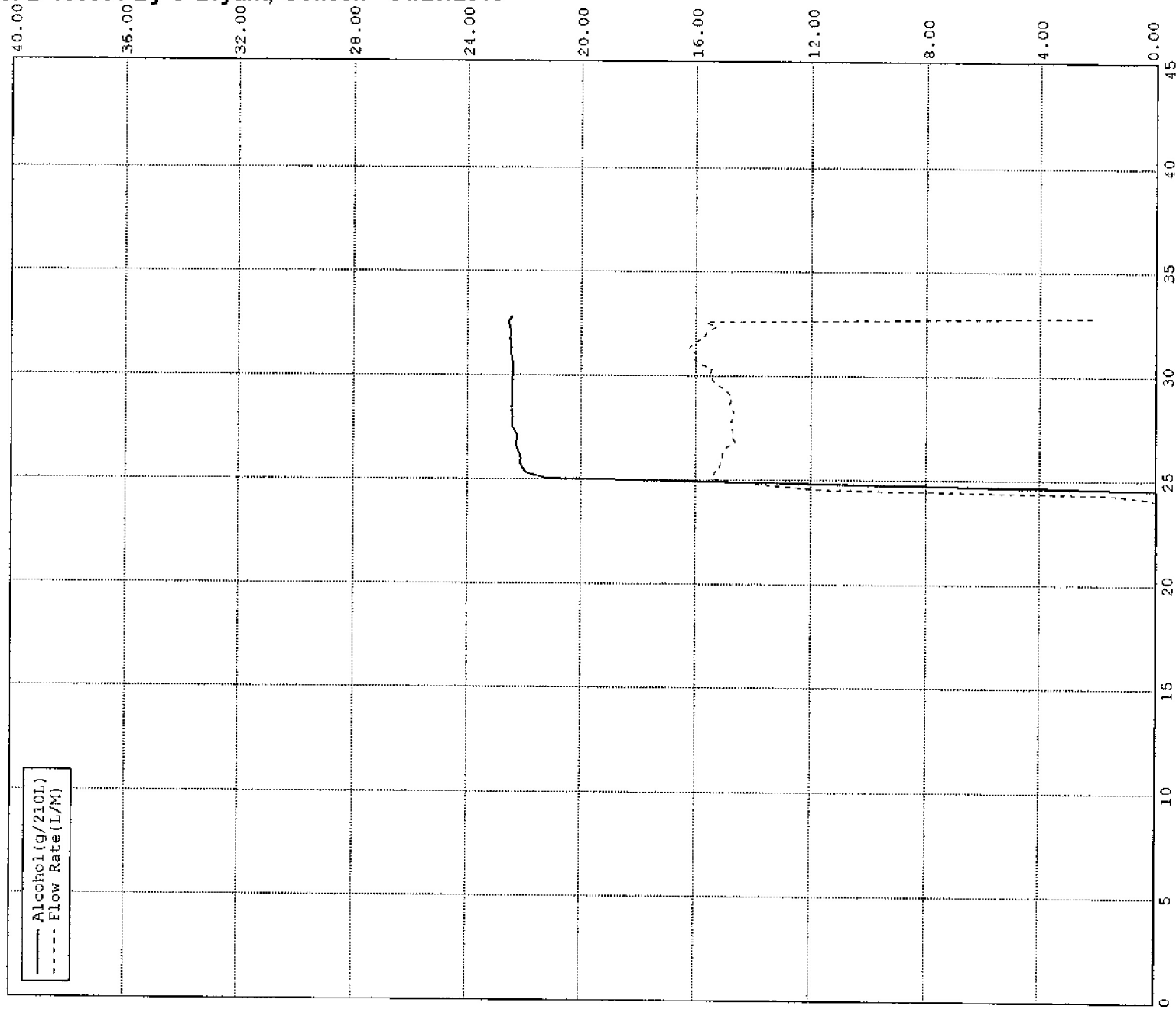
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.20: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:20
BLANK TEST	0.000	10:20
INTERNAL STANDARD	VERIFIED	10:20
EXTERNAL STANDARD	0.077	10:20
BLANK TEST	0.000	10:21
SUBJECT SAMPLE	INVALID	10:22

COB

COB 14/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 04/26/2013
 Time: 10:28:22

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

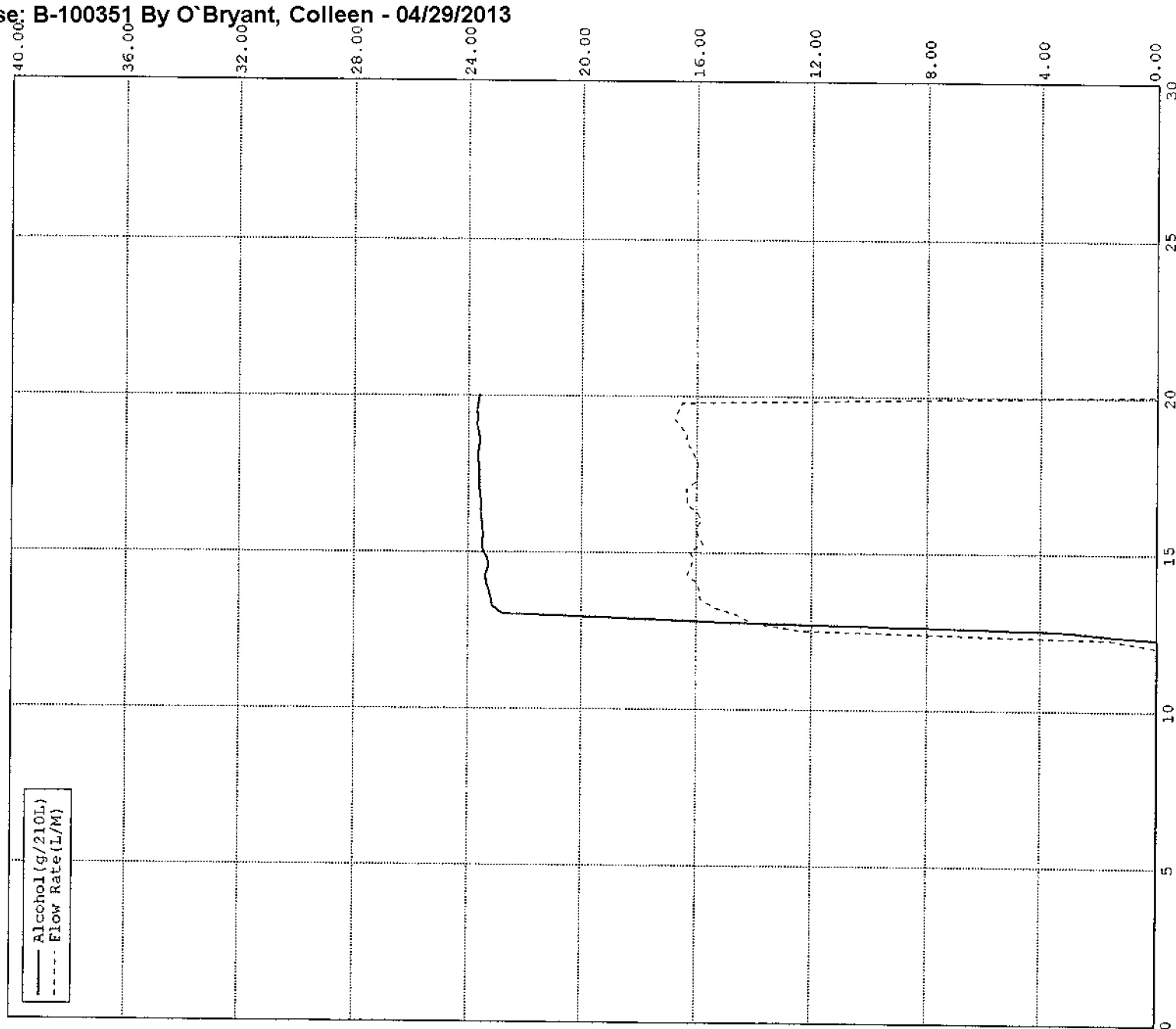
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.20: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:32
BLANK TEST	0.000	10:32
INTERNAL STANDARD	VERIFIED	10:32
$X_q = 0.099$ (1.34%)		
EXTERNAL STANDARD	0.077	10:32
$X[1] = 0.0771$ (-0.0028) (0.0032)		
BLANK TEST	0.000	10:33
SUBJECT SAMPLE	INTERFERENCE	10:34
$X[1] = 0.1122$ (-0.0166) (0.0030)		

CB

03/15/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 04/26/2013
 Time: 10:39:26

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 29.18: 0.078

LOT #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

PASSED 10:43

BLANK TEST

0.000 10:43

INTERNAL STANDARD

VERIFIED 10:44

 $X_q = 0.100$ (1.52%)

EXTERNAL STANDARD

0.077 10:44

 $X[1] = 0.0770$ (-0.0018) (0.0028)

BLANK TEST

0.000 10:45

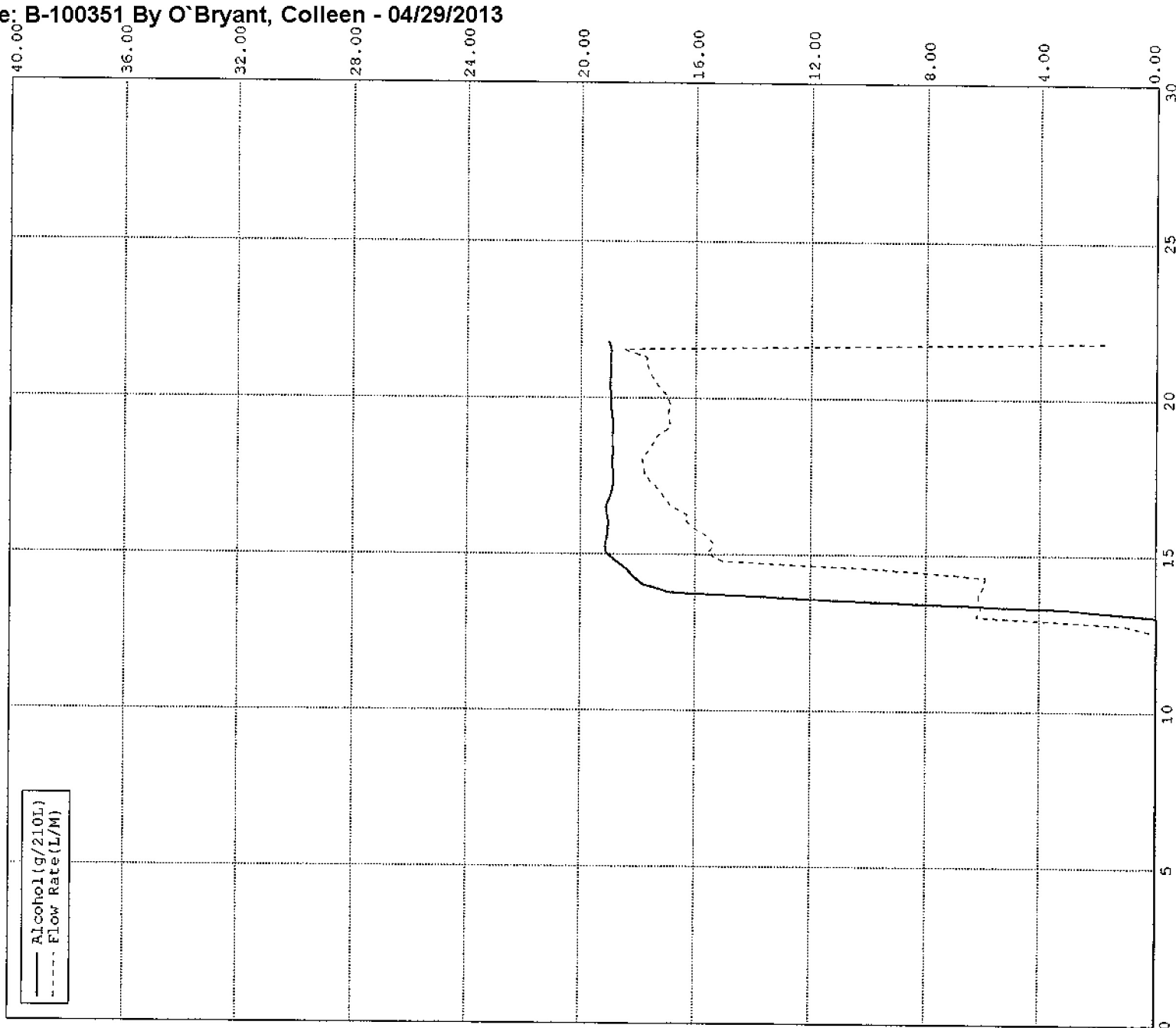
SUBJECT SAMPLE

INTERFERENCE 10:45

 $X[1] = 0.1175$ (-0.0270) (0.0027)

CB

04/16/19



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 04/26/2013
 Time: 10:48:29

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEGATIVE

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

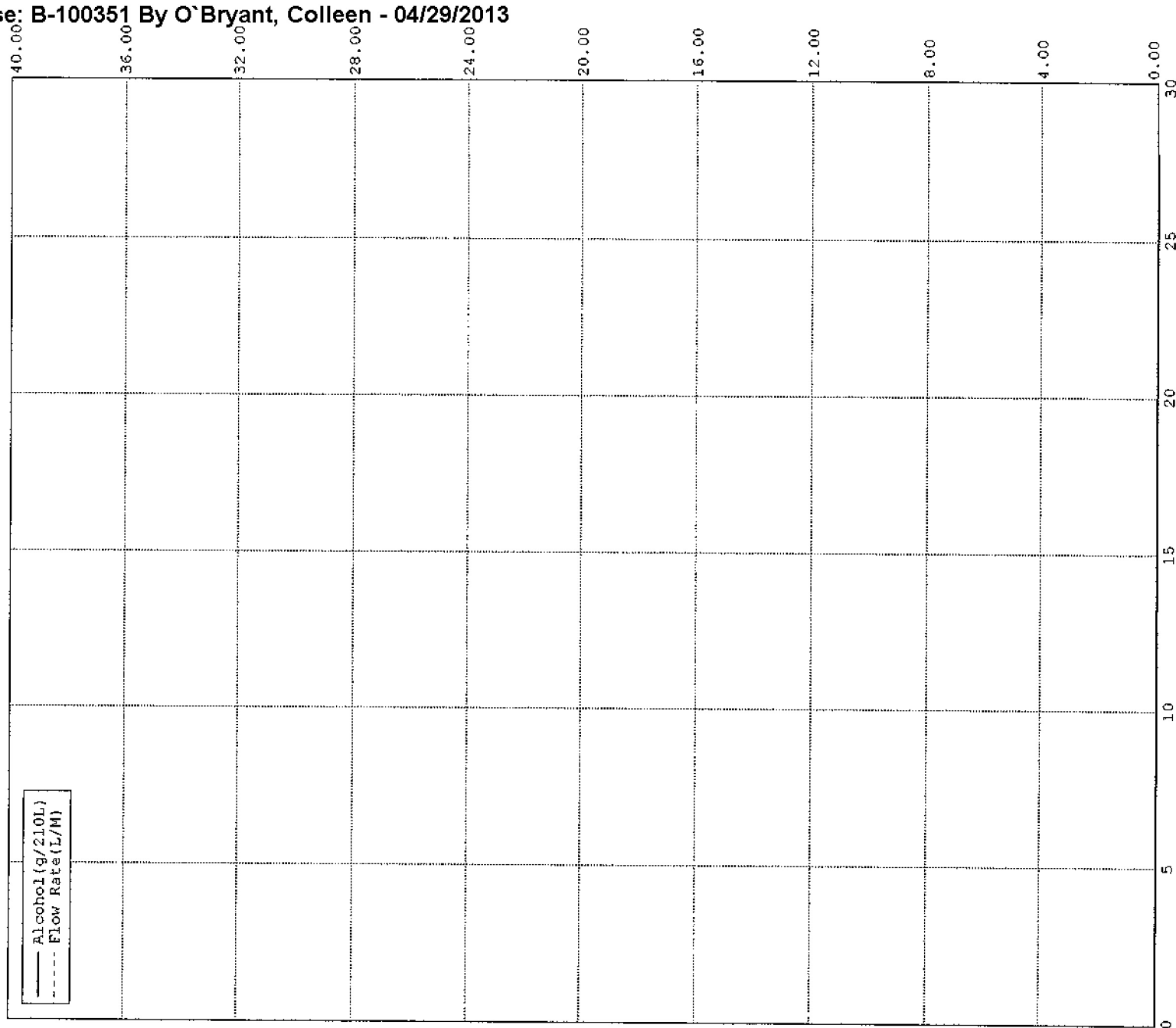
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.18: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:51
BLANK TEST	0.000	10:51
INTERNAL STANDARD	VERIFIED	10:51
$Xq = 0.099$ (1.34%)		
EXTERNAL STANDARD	0.077	10:51
$X[1] = 0.0773$ (-0.0014)	(0.0030)	
BLANK TEST	0.000	10:52
SUBJECT SAMPLE (Vol=2.18L)	0.094	10:52
$X[1] = 0.0948$ (-0.0008)	(0.0015)	
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.077	10:54
$X[1] = 0.0770$ (-0.0021)	(0.0029)	
BLANK TEST	0.000	10:55

COB

COB 17/19



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 04/26/2013
Time: 11:01:31

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAA1

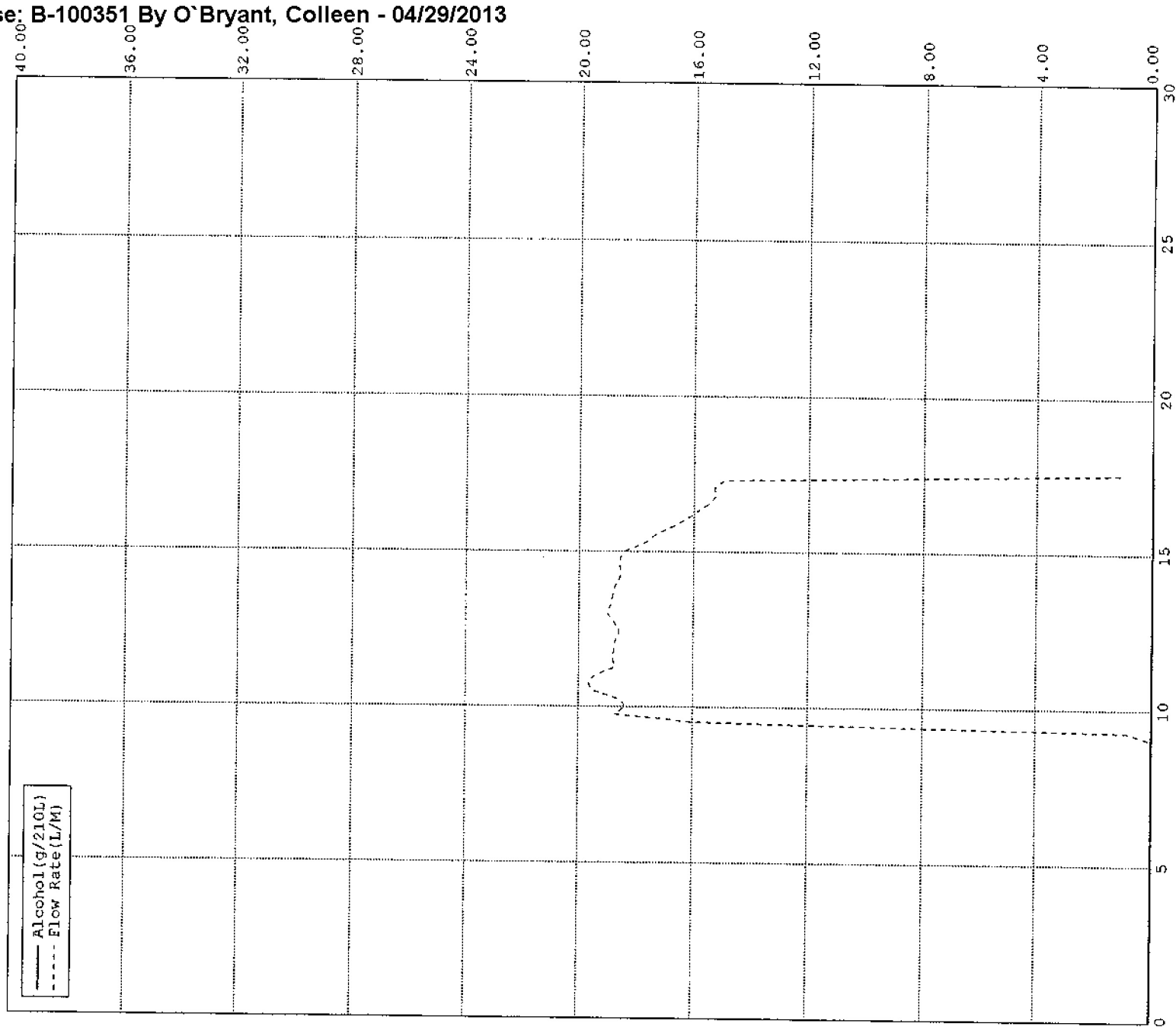
CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 11:02
BLANK TEST 0.000 11:02
INTERNAL STANDARD VERIFIED 11:02
EXTERNAL STANDARD 0.077 11:03
BLANK TEST 0.000 11:04

RFI DETECTED

C0818/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 04/26/2013
 Time: 11:23:44

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 29.17: 0.077

LOT #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

PASSED	11:27
BLANK TEST	0.000
INTERNAL STANDARD	11:27
EXTERNAL STANDARD	VERIFIED 11:28
BLANK TEST	0.077
INTERNAL STANDARD	0.000
SUBJECT SAMPLE	11:29
BLANK TEST	0.000
EXTERNAL STANDARD	11:30
BLANK TEST	0.077
INTERNAL STANDARD	0.000
BLANK TEST	11:31

CAB 19/19