

## Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

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

Version: DMCEF2012 R1  
Status: Active

Instrument S/N 100711 Analyst Colleen O'Bryant 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 02012050A1 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 10/09/2012
  - vi. 0.300g/210L Mnf Guth Lot 12050 Exp 03/01/2014
    - 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 DR5098 Date Calibrated 10/08/2012
- ii. Isopropanol - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13
  - 1. Simulator S/N SD1302 Date Calibrated 10/09/12
- iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13
  - 1. Simulator S/N SD1176 Date Calibrated 10/09/12

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 dnt: 100411  
-----

Date: 04/26/2013  
Time: 07:52:50

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C            PASSED  
Breath Tube     = 44.4°C            PASSED

PUMP INFO

Flow Rate = 5.079 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: 100411  
-----

Date: 04/26/2013  
Time: 7:59 AM

Temperatures (°C)  
Sample Cell: 48.9°C  
Breath Tube: 44.8°C

Current Barometer 29.2 in  
Volume (Ltr) 1.55

Settings  
Lamp: 1.79 V  
Bias: 80 V  
Cooler: 1.80 V  
Chopper: 532 Hz

Voltages (V)  
Flow: 1.05 V  
Detector: -0.011 V

## CALIBRATION FACTORS

Alaska Department of Public Safety  
DATAMASTER dmt: 100411

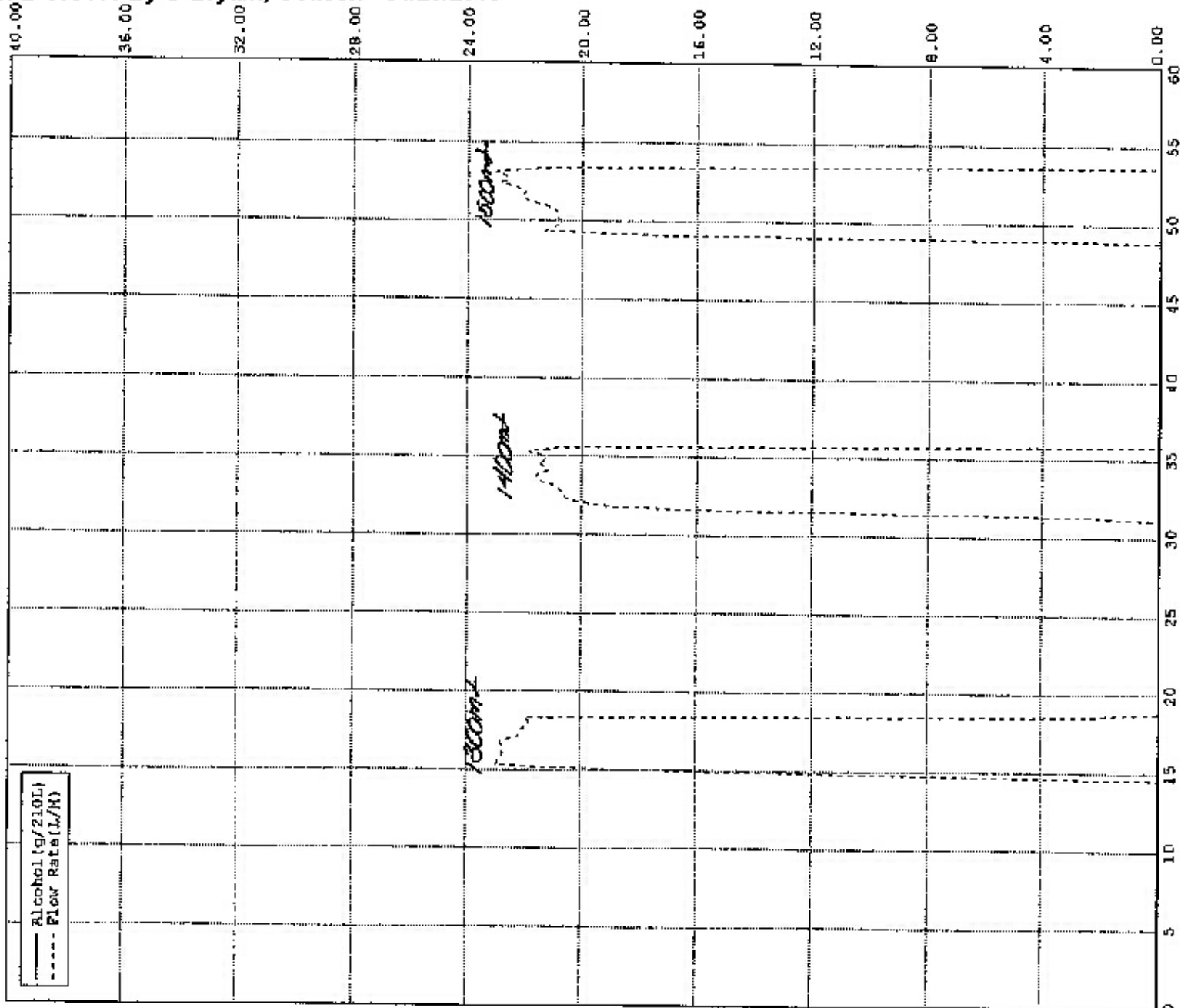
Date: 07/26/2011  
Time: 14:44:26

OPERATOR NAME:  
CHARLES FOSTER  
CERTIFICATE #: 7734

LOT #: 11050  
BOTTLE #: 481  
EXPIRATION: 04/06/2013

Ca	=	0.1000			
CAL	=	0.995398	0.800	<=	CAL < 1.200
b1	=	0.0004	0.0000	<=	b1 < 0.0040
b2	=	0.0022	0.0010	<=	b2 < 0.0100
b3	=	0.0000	0.0000	<=	b3 < 0.0040
Xq	=	0.0848	0.0500	<=	Xq < 0.2000
a21	=	1.129035	1.050	<=	a21 < 1.300
a31	=	0.469281	0.300	<=	a31 < 0.800

08/19



**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100411  
 -----  
 Date: 04/26/2013  
 Time: 08:08:08

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #: VOLUME**

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

**DEPT/AGENCY:**  
 AAAA

**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	PASSED	08:09
BLANK TEST	0.000	08:09
INTERNAL STANDARD	VERIFIED	08:09
EXTERNAL STANDARD	0.075	08:09
BLANK TEST	0.000	08:10
SUBJECT SAMPLE	0.000	08:11
BLANK TEST	0.000	08:12
EXTERNAL STANDARD	0.075	08:12
BLANK TEST	D.000	08:13

08/5/19

LINEARITY CHECK

Alaska Department of Public Safety  
 LABORATORY dntc: 100411

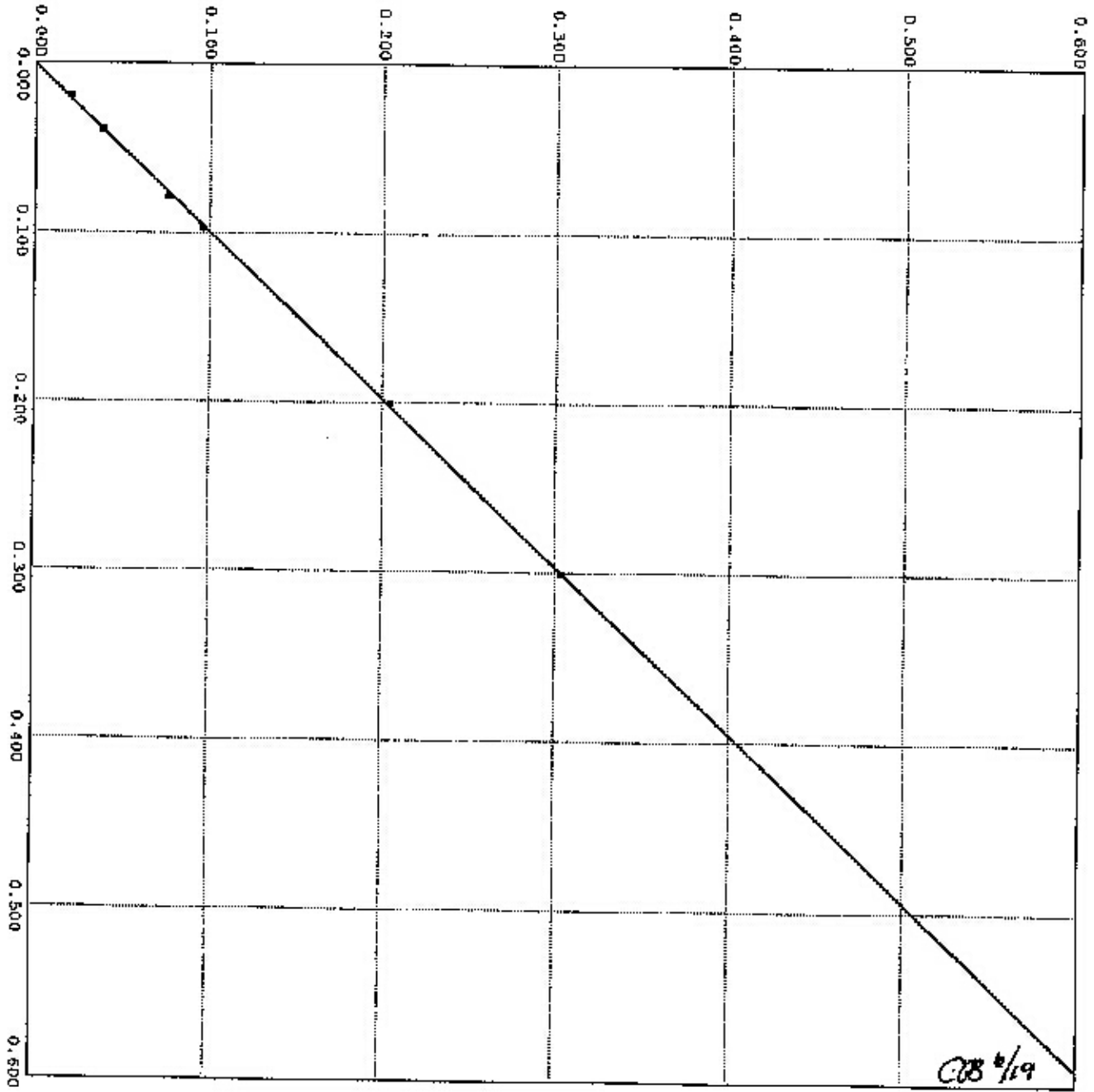
Date: 04/26/2013  
 Time: 08:25:03

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0210	0.0001
0.039	0.0398	0.0002
0.078	0.0768	0.0003
0.097	0.0968	0.0003
0.200	0.2054	0.0012
0.300	0.3042	0.0005

SLOPE = 1.016370  
 $R^2 = 0.999717$

*COB*



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100411

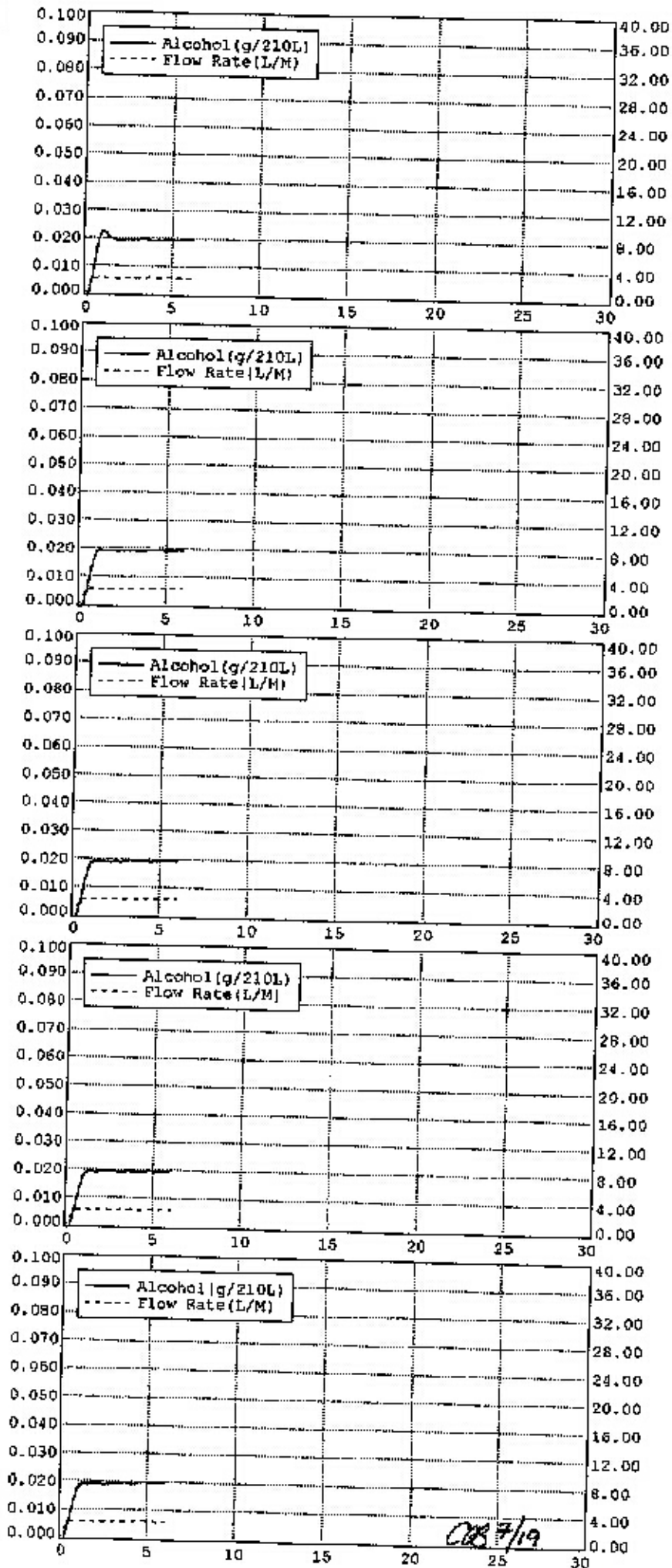
Date: 04/26/2013  
 Time: 08:25:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.22: 0.019  
 LOT #: D0813020A1  
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	08:28
INTERNAL STANDARD	VERIFIED	08:29
EXTERNAL STANDARD	0.021	08:29
BLANK TEST	0.000	08:30
EXTERNAL STANDARD	0.020	08:30
BLANK TEST	0.000	08:31
EXTERNAL STANDARD	0.020	08:31
BLANK TEST	0.000	08:32
EXTERNAL STANDARD	0.021	08:32
BLANK TEST	0.000	08:33
EXTERNAL STANDARD	0.021	08:33
BLANK TEST	0.000	08:34

Average = 0.0210  
 Std Dev = 0.0001



*08/19*

LINEARITY CHECK: Control Test 2

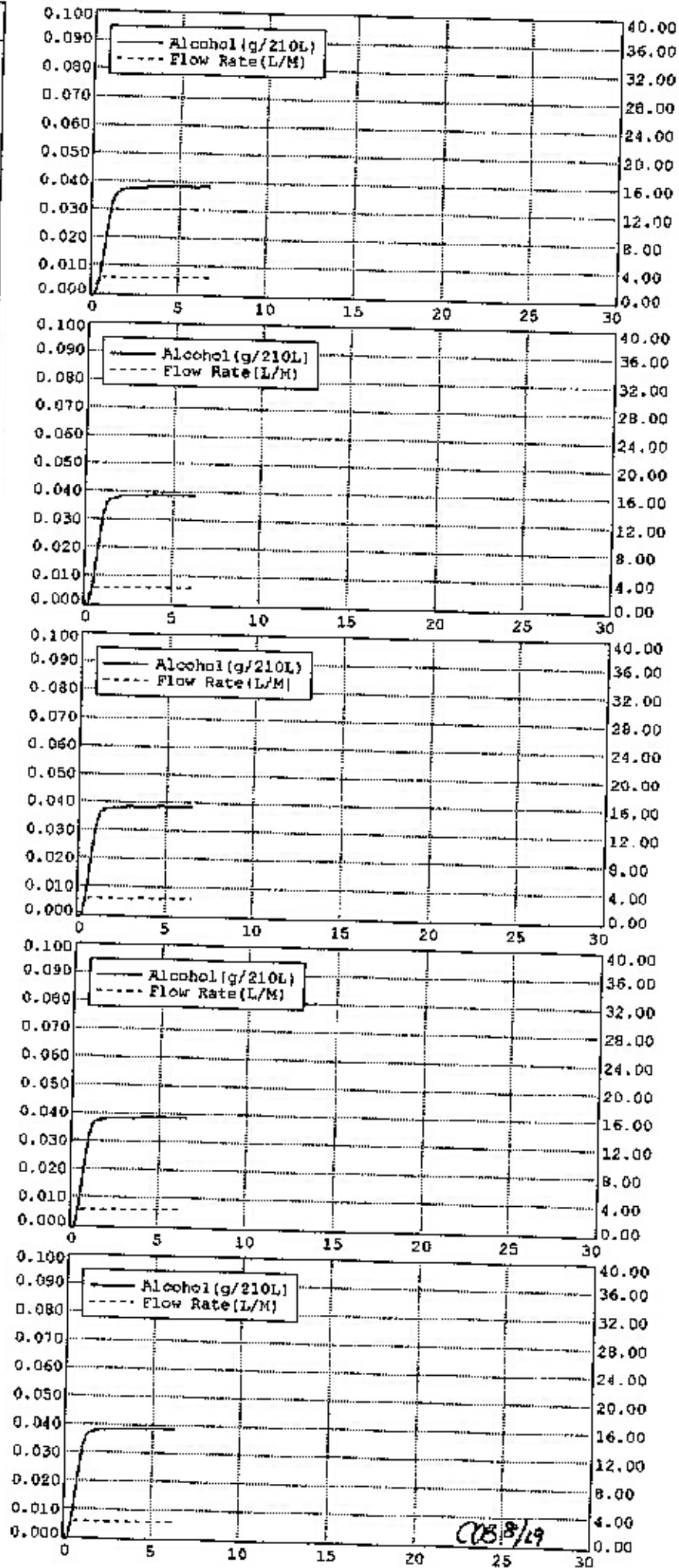
Alaska Department of Public Safety  
 DATAMASTER dmt: 100411

Date: 04/26/2013  
 Time: 08:37:04

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

BLANK TEST	0.000	08:40
INTERNAL STANDARD	VERIFIED	08:40
EXTERNAL STANDARD	0.039	08:40
BLANK TEST	0.000	08:41
EXTERNAL STANDARD	0.040	08:41
BLANK TEST	0.000	08:42
EXTERNAL STANDARD	0.039	08:43
BLANK TEST	0.000	08:43
EXTERNAL STANDARD	0.039	08:44
BLANK TEST	0.000	08:45
EXTERNAL STANDARD	0.039	08:45
BLANK TEST	0.000	08:46

Average = 0.0398  
 Std Dev = 0.0002





LINEARITY CHECK: Control Test 3

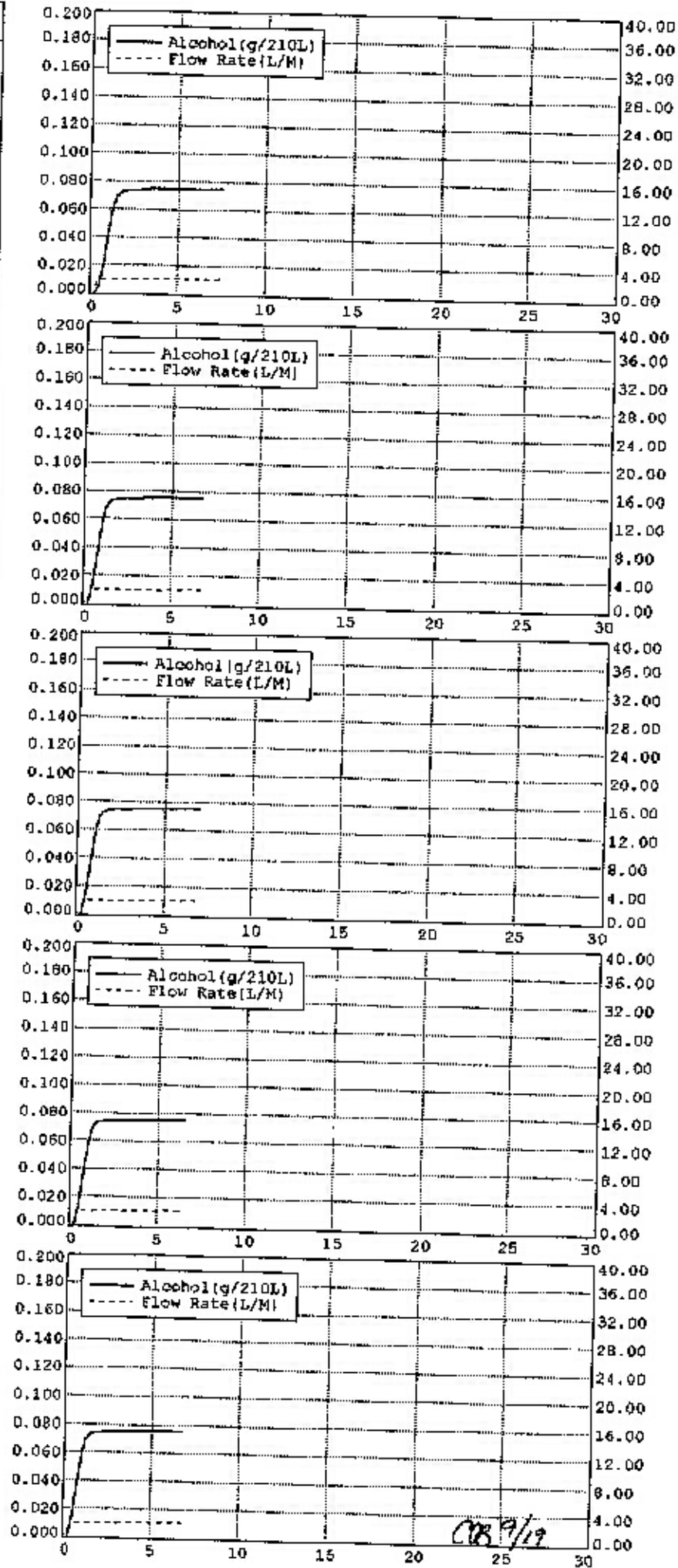
Alaska Department of Public Safety  
 DATAMASTER dnt: 100411

Date: 04/26/2013  
 Time: 08:47:21

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

BLANK TEST	0.000	08:50
INTERNAL STANDARD	VERIFIED	08:50
EXTERNAL STANDARD	0.076	08:50
BLANK TEST	0.000	08:51
EXTERNAL STANDARD	0.076	08:51
BLANK TEST	0.000	08:52
EXTERNAL STANDARD	0.076	08:52
BLANK TEST	0.000	08:53
EXTERNAL STANDARD	0.076	08:53
BLANK TEST	0.000	08:54
EXTERNAL STANDARD	0.077	08:55
BLANK TEST	0.000	08:55

Average = 0.0768  
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

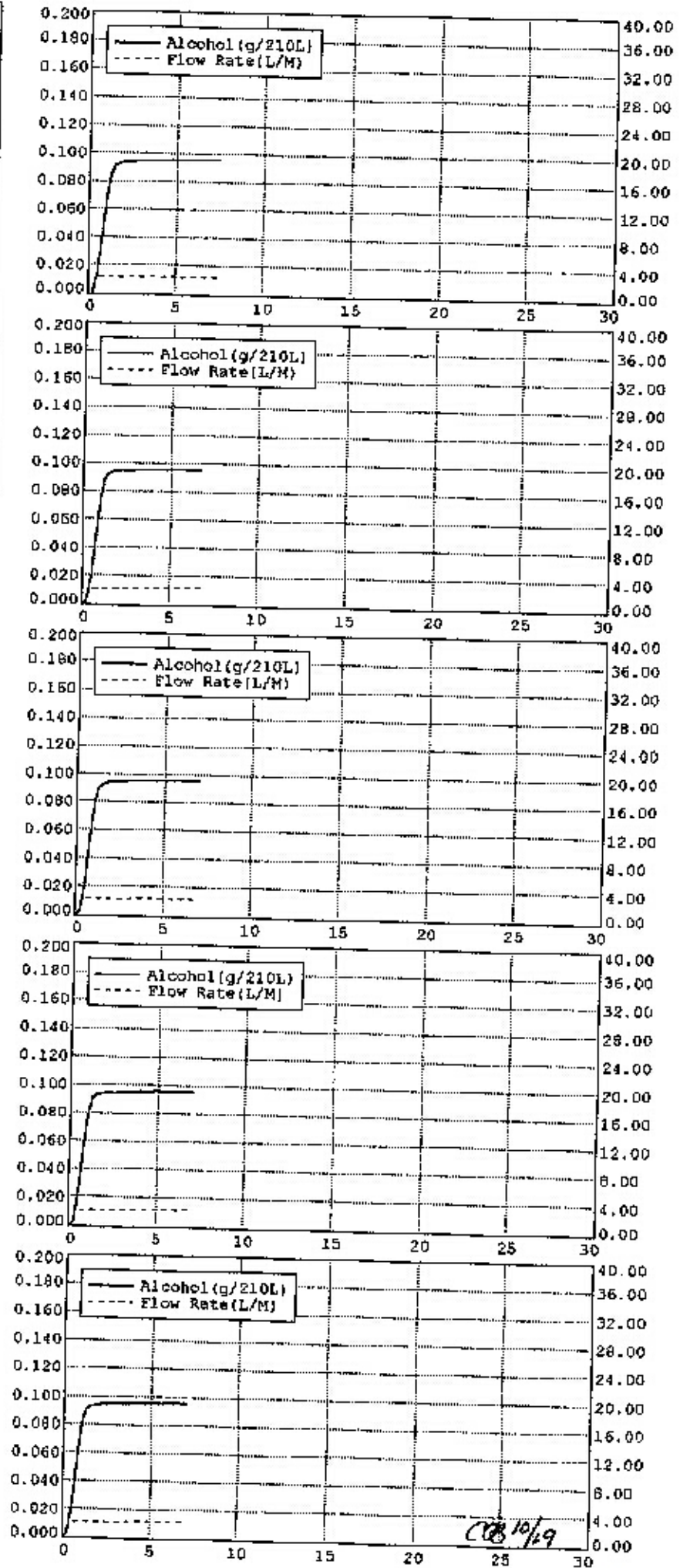
Alaska Department of Public Safety  
 DATAMASTER dmt: 100411

Date: 04/26/2013  
 Time: 08:57:45

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

BLANK TEST	0.000	08:59
INTERNAL STANDARD	VERIFIED	08:59
EXTERNAL STANDARD	0.096	08:59
BLANK TEST	0.000	09:00
EXTERNAL STANDARD	0.096	09:00
BLANK TEST	0.000	09:01
EXTERNAL STANDARD	0.097	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.096	09:02
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.097	09:04
BLANK TEST	0.000	09:04

Average = 0.0968  
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
 DATAMASTER dmt: 100411

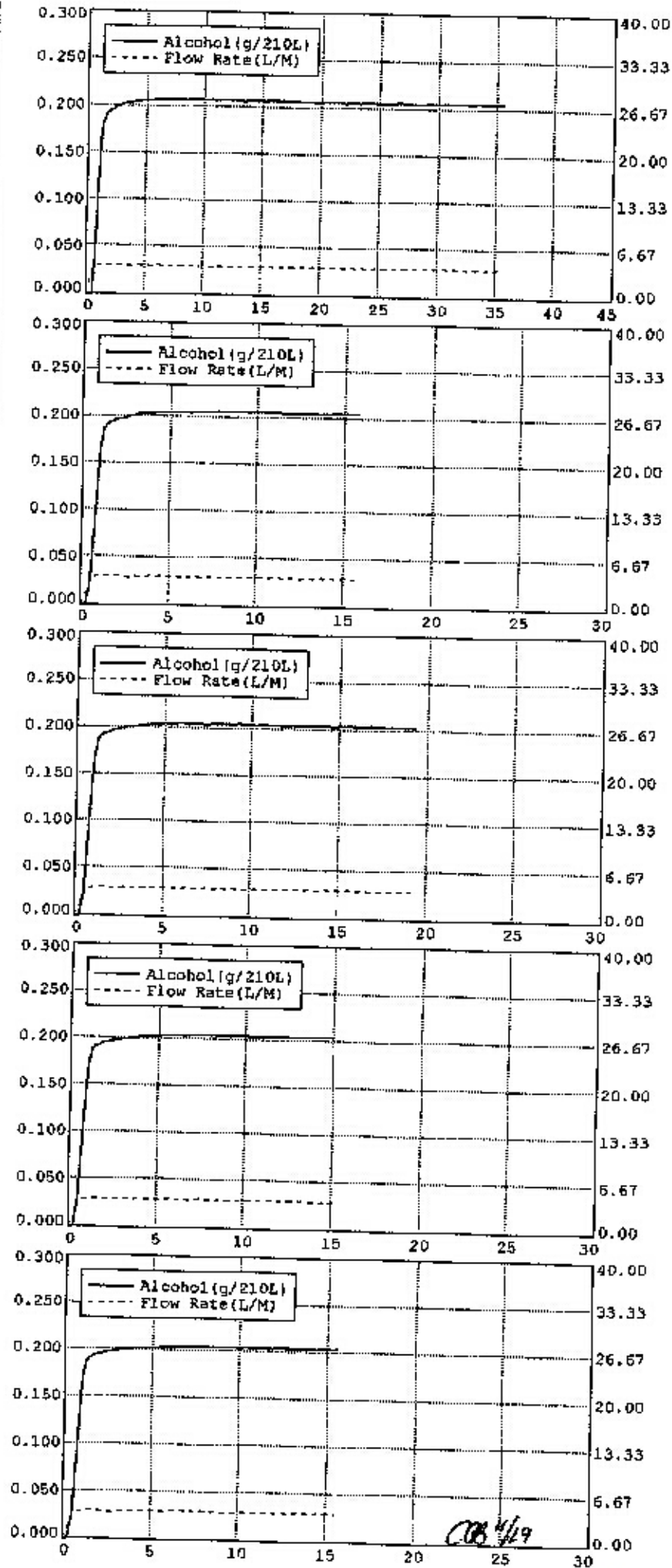
Date: 04/26/2013  
 Time: 09:07:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
 LOT #: 11120  
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	09:10
INTERNAL STANDARD	VERIFIED	09:10
EXTERNAL STANDARD	0.207	09:10
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.206	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.204	09:13
BLANK TEST	0.000	09:14
EXTERNAL STANDARD	0.204	09:15
BLANK TEST	0.000	09:16
EXTERNAL STANDARD	0.204	09:16
BLANK TEST	0.000	09:17

Average = 0.2054  
 Std Dev = 0.0012



*COB 4/29*

LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
 DATAMASTER dnt: 100411

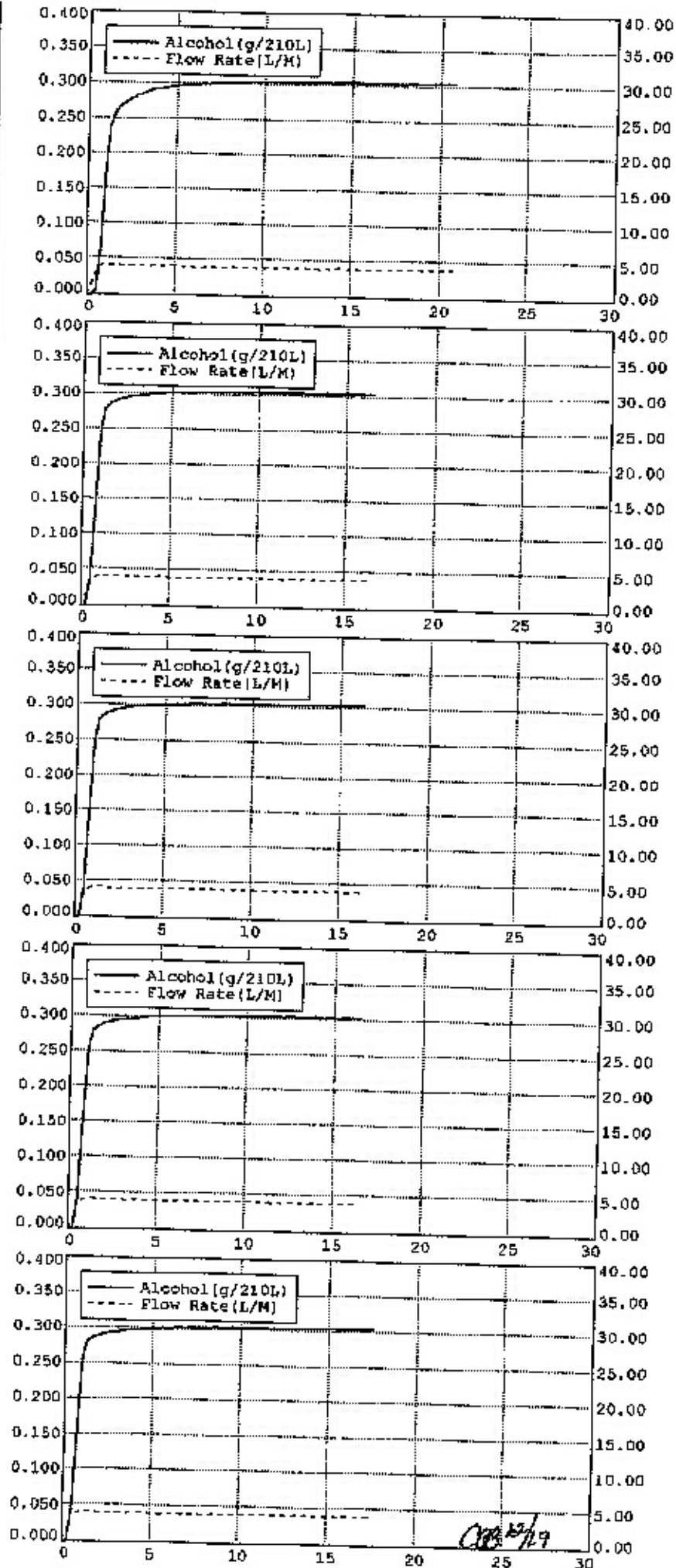
Date: 04/26/2013  
 Time: 09:20:47

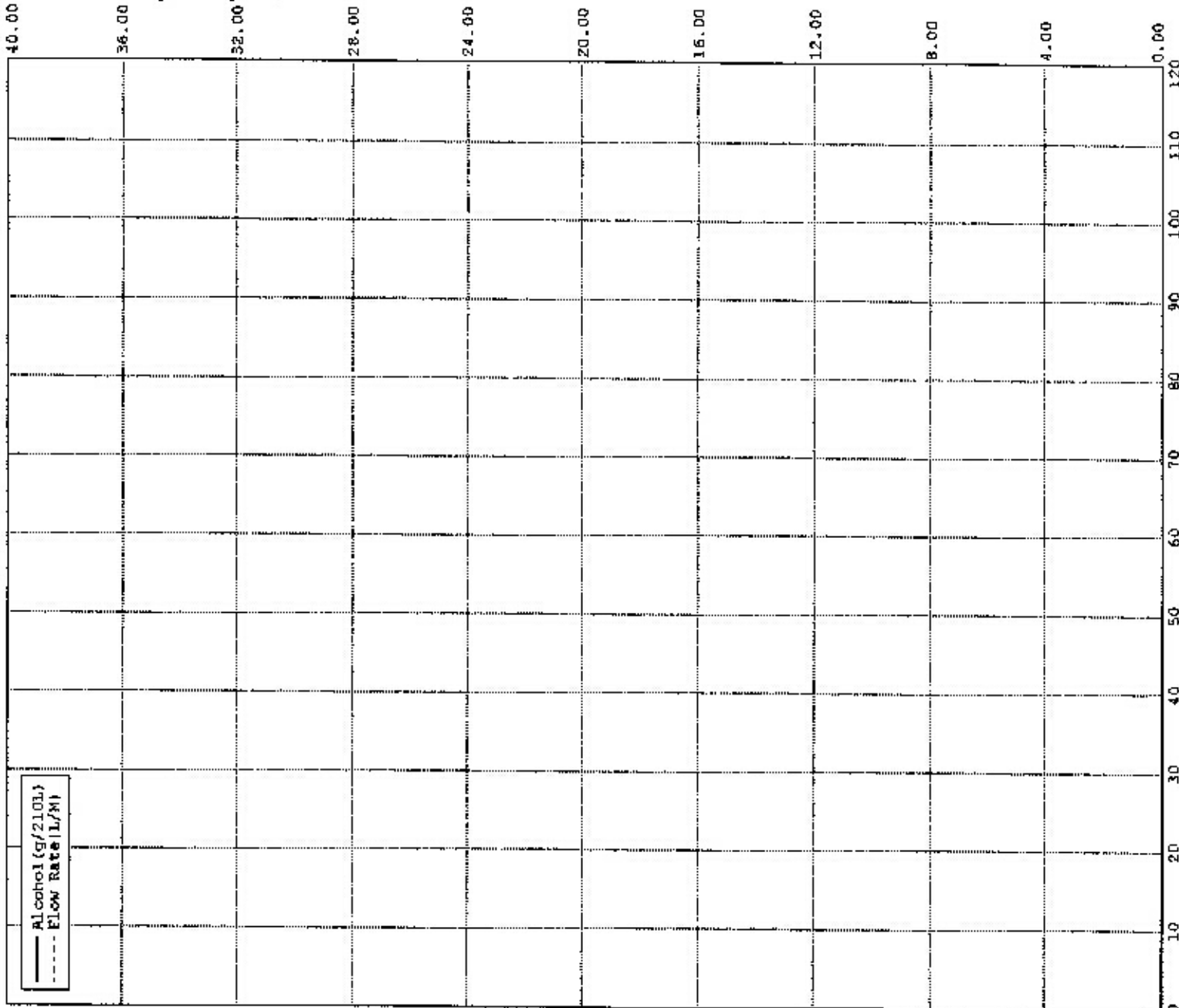
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	09:22
INTERNAL STANDARD	VERIFIED	09:22
EXTERNAL STANDARD	0.304	09:22
BLANK TEST	0.000	09:23
EXTERNAL STANDARD	0.304	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.304	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.303	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.303	09:28
BLANK TEST	0.000	09:28

Average = 0.3042  
 Std Dev = 0.0005





**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER chrt: 100411

Date: 04/26/2013  
 Time: 09:37:10

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

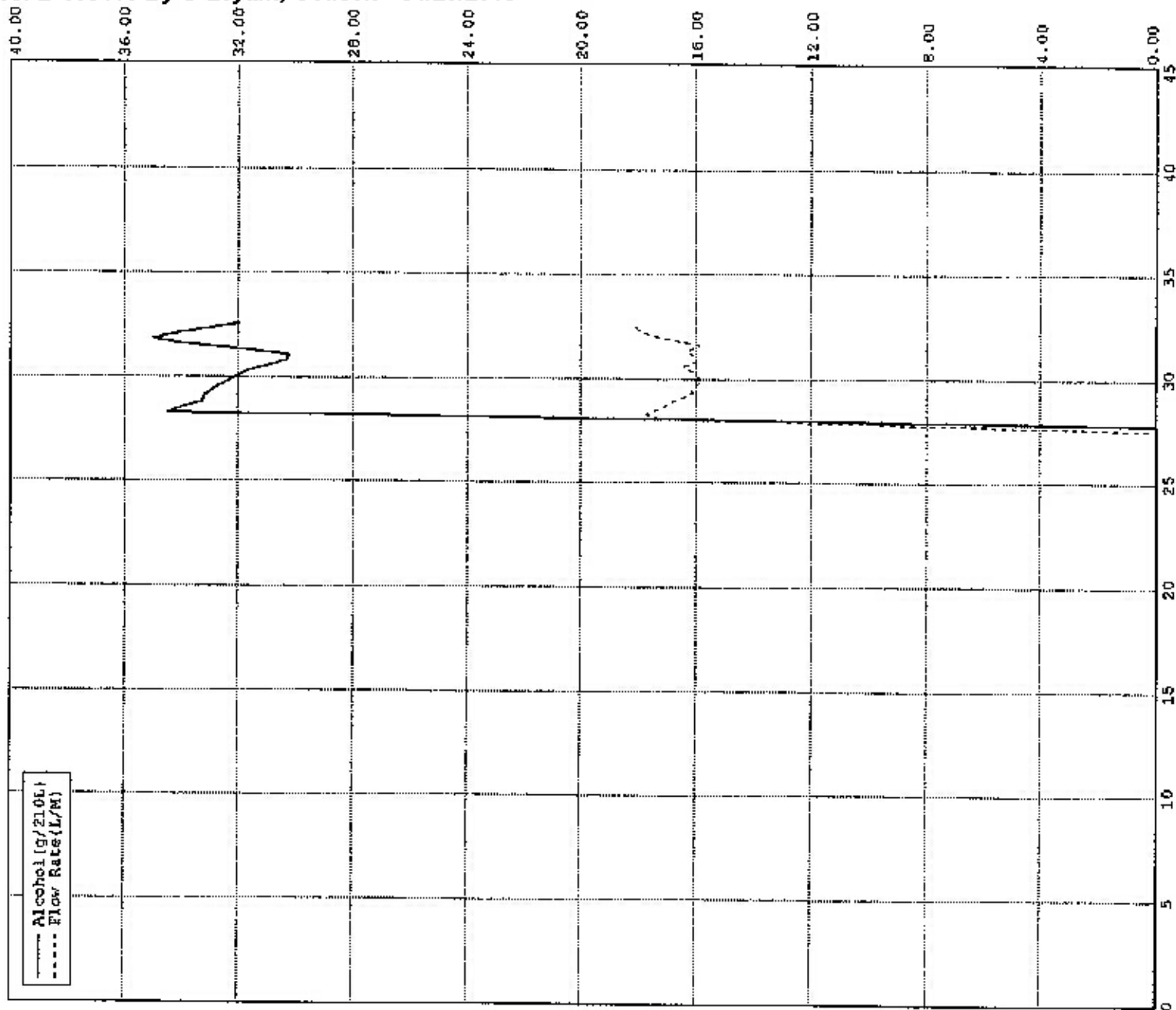
**EXTERNAL STANDARD INFORMATION**

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

DIAGNOSTIC CHECK PASSED 10:03  
 BLANK TEST 0.000 10:03  
 INTERNAL STANDARD VERIFIED 10:04  
 EXTERNAL STANDARD 0.075 10:04  
 BLANK TEST 0.000 10:05  
 SUBJECT SAMPLE INCOMPLETE 10:07

*COB*

*COB 4/19*



**SUBJECT TEST**

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 Alaska Department of Public Safety  
 DATAMASTER dnt: 100411  
 -----  
 Date: 04/26/2013  
 Time: 10:16:09

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** INVALID

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

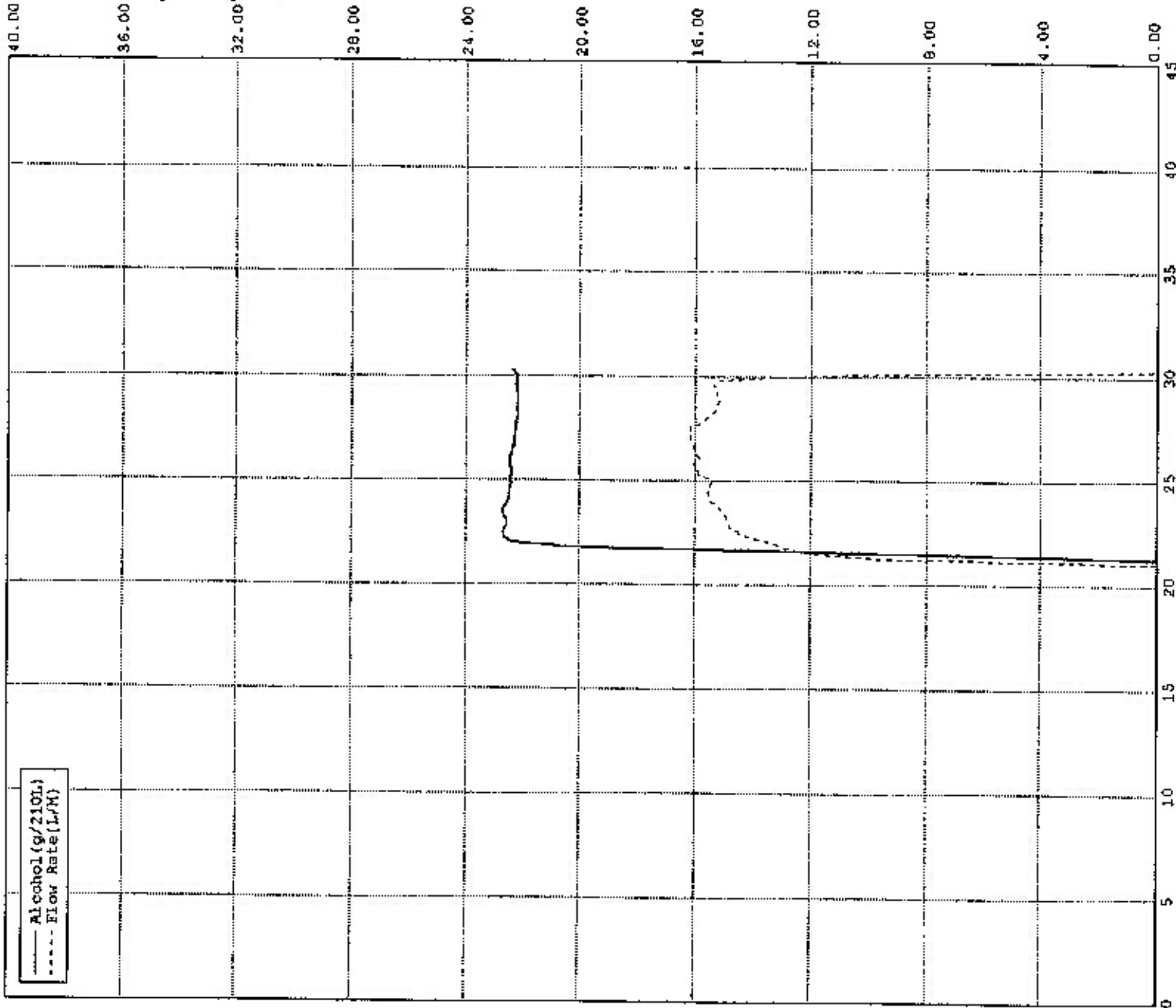
**DEPT/AGENCY:**  
 AAA1

**CASE/REPORT:** 13-1234  
**TEST TYPE:** TEST

**EXTERNAL STANDARD INFORMATION**  
 NOMINAL: 0.080  
 TARGET AT 29.20: 0.078  
 LOT #: 0201208DA1  
 EXPIRATION: 03/01/2014

<b>DIAGNOSTIC CHECK</b>	<b>PASSED</b>	<b>10:20</b>
<b>BLANK TEST</b>	0.000	10:20
<b>INTERNAL STANDARD</b>	<b>VERIFIED</b>	<b>10:20</b>
<b>EXTERNAL STANDARD</b>	0.077	10:20
<b>BLANK TEST</b>	0.000	10:21
<b>SUBJECT SAMPLE</b>	<b>INVALID</b>	<b>10:23</b>

14  
 COB 4/29/13  
 CAB



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATA MASTER dmt: 100411

Date: 04/26/2013  
 Time: 10:28:16

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** INT-ACETONE

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

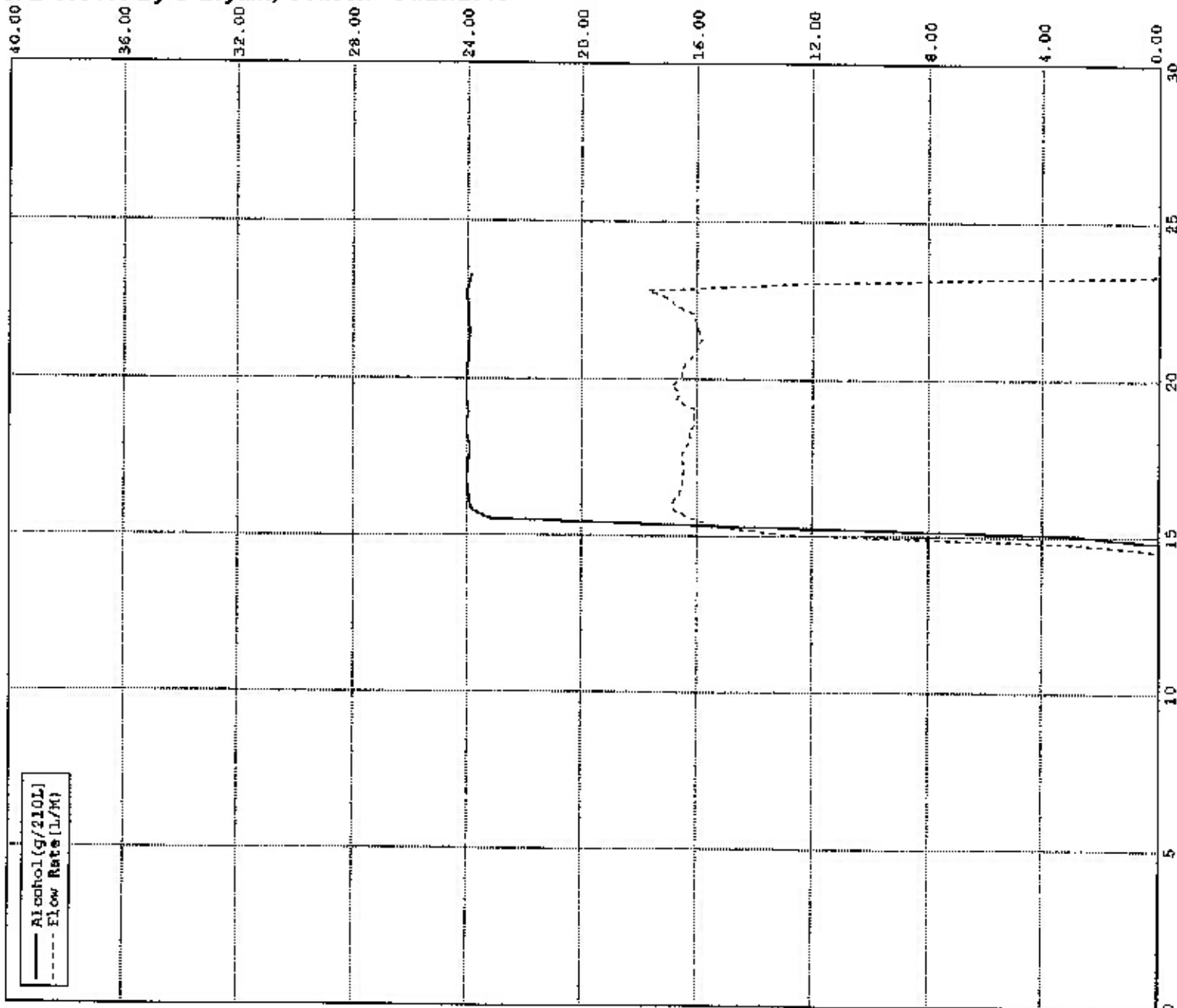
**DEPT/AGENCY:**  
 AAA1

**CASE/REPORT:** 13-1234  
**TEST TYPE:** TEST

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

**DIAGNOSTIC CHECK** PASSED 10:29  
**BLANK TEST** 0.000 10:29  
**INTERNAL STANDARD** VERIFIED 10:29  
 Xq = 0.085 (0.21%)  
**EXTERNAL STANDARD** 0.076 10:29  
 X[1] = 0.0767 (0.002%) (0.0044)  
**BLANK TEST** 0.000 10:30  
**SUBJECT SAMPLE INTERFERENCE** 10:31  
 X[1] = 0.1121 (-0.019%) (0.0017)

CRB  
 CRB 4/19



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER dnt: 100411

Date: 04/26/2013  
 Time: 10:40:23

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INT-IPA

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

DEPT/AGENCY:  
 AAAA

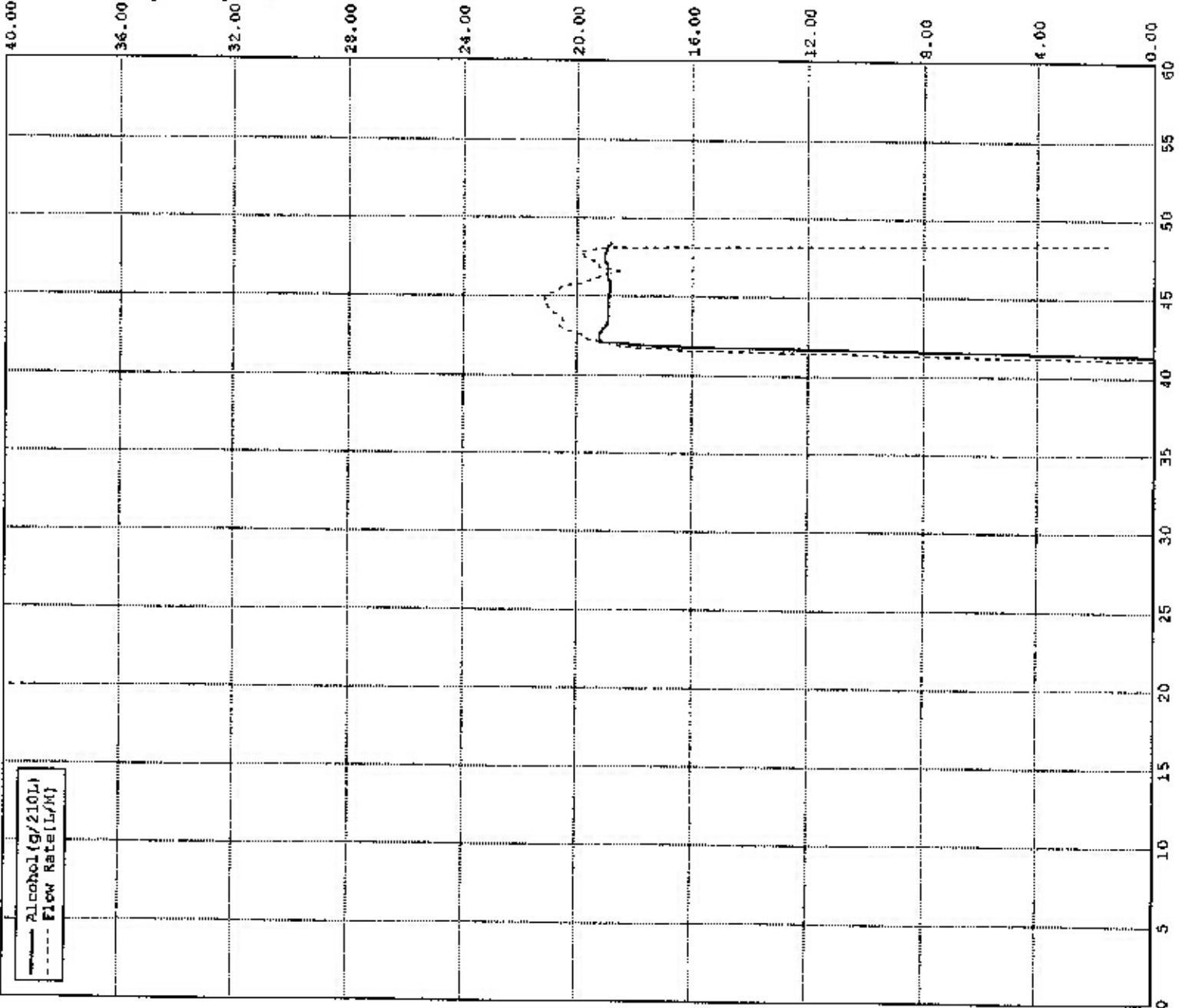
CASE/REPORT: 13-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.19: 0.078  
 LOT #: 02012080A1  
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:41
BLANK TEST	0.000	10:41
INTERNAL STANDARD	VERIFIED	10:41
Xq = 0.085 (0.10%)		
EXTERNAL STANDARD	0.076	10:41
X[1] = 0.0764 (0.0010) (0.0025)		
BLANK TEST	0.000	10:42
SUBJECT SAMPLE	INTERFERENCE	10:43
X[1] = 0.1198 (-0.0212) (0.0025)		

*COB*  
*COB 4/29/13*





**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER dnt: 100411  
 Date: 04/26/2013  
 Time: 10:45:35

**SUBJECT NAME:**  
 TEST TEST  
 LICENSE #: INT-NEGATIVE

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

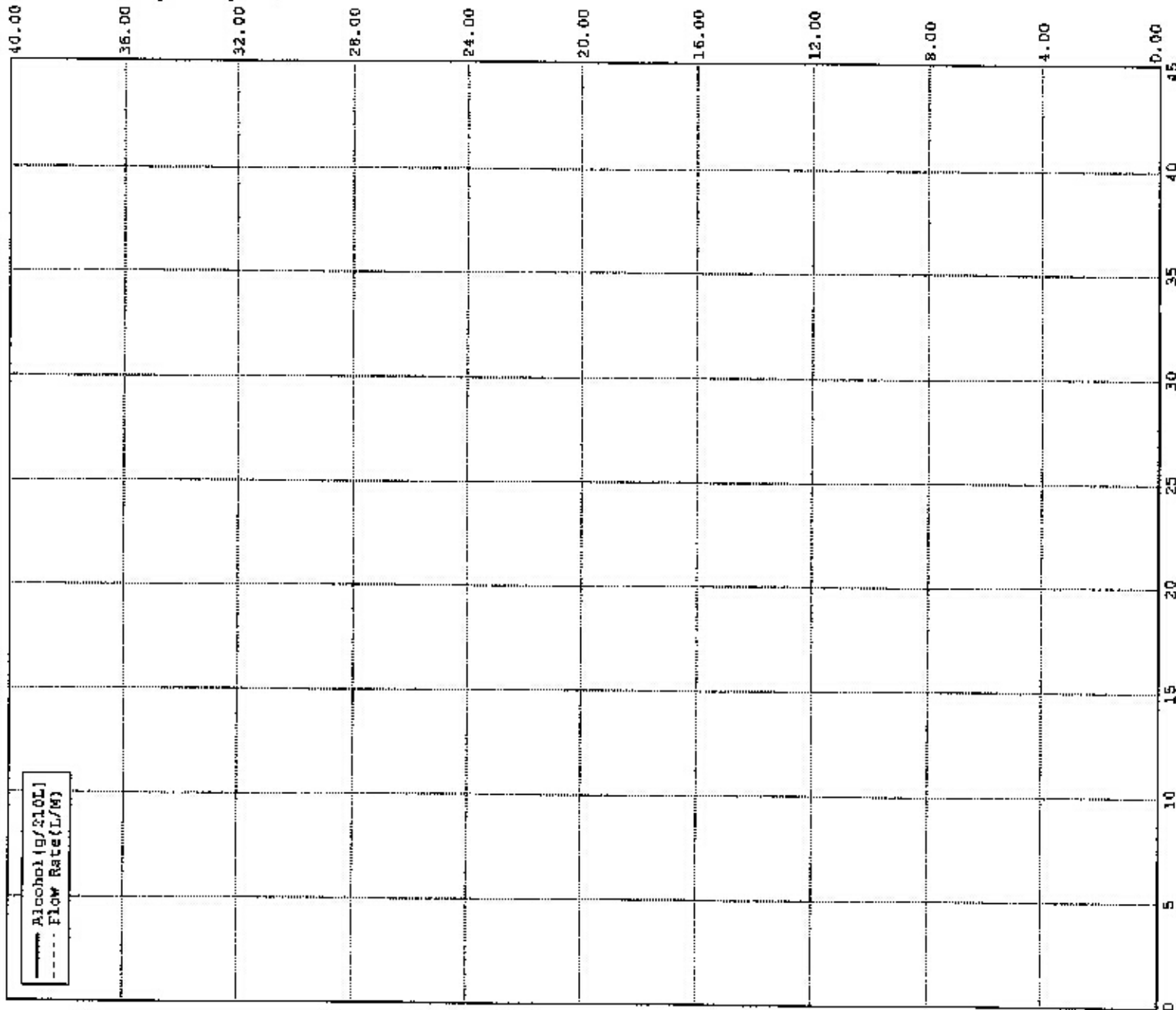
**DEPT/AGENCY:**  
 AAAA1

**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	10:47
BLANK TEST	0.000	10:47
INTERNAL STANDARD	VERIFIED	10:47
Xq = 0.085 (0.82%)		
EXTERNAL STANDARD	0.076	10:48
X[1] = 0.0766 (0.0014) (0.0033)		
BLANK TEST	0.000	10:49
SUBJECT SAMPLE (Vol=2.28L)	0.094	10:50
X[1] = 0.0948 (0.0001) (0.0021)		
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.075	10:51
X[1] = 0.0758 (0.0010) (0.0031)		
BLANK TEST	0.000	10:52

COB  
 17  
 COB 4/19



SUBJECT TEST

-----  
 Alaska Department of Public Safety  
 DATAMASTER dnt: 100411  
 -----  
 Date: 04/26/2013  
 Time: 10:54:53

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: REI

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

DEPT/AGENCY:  
 AAA1

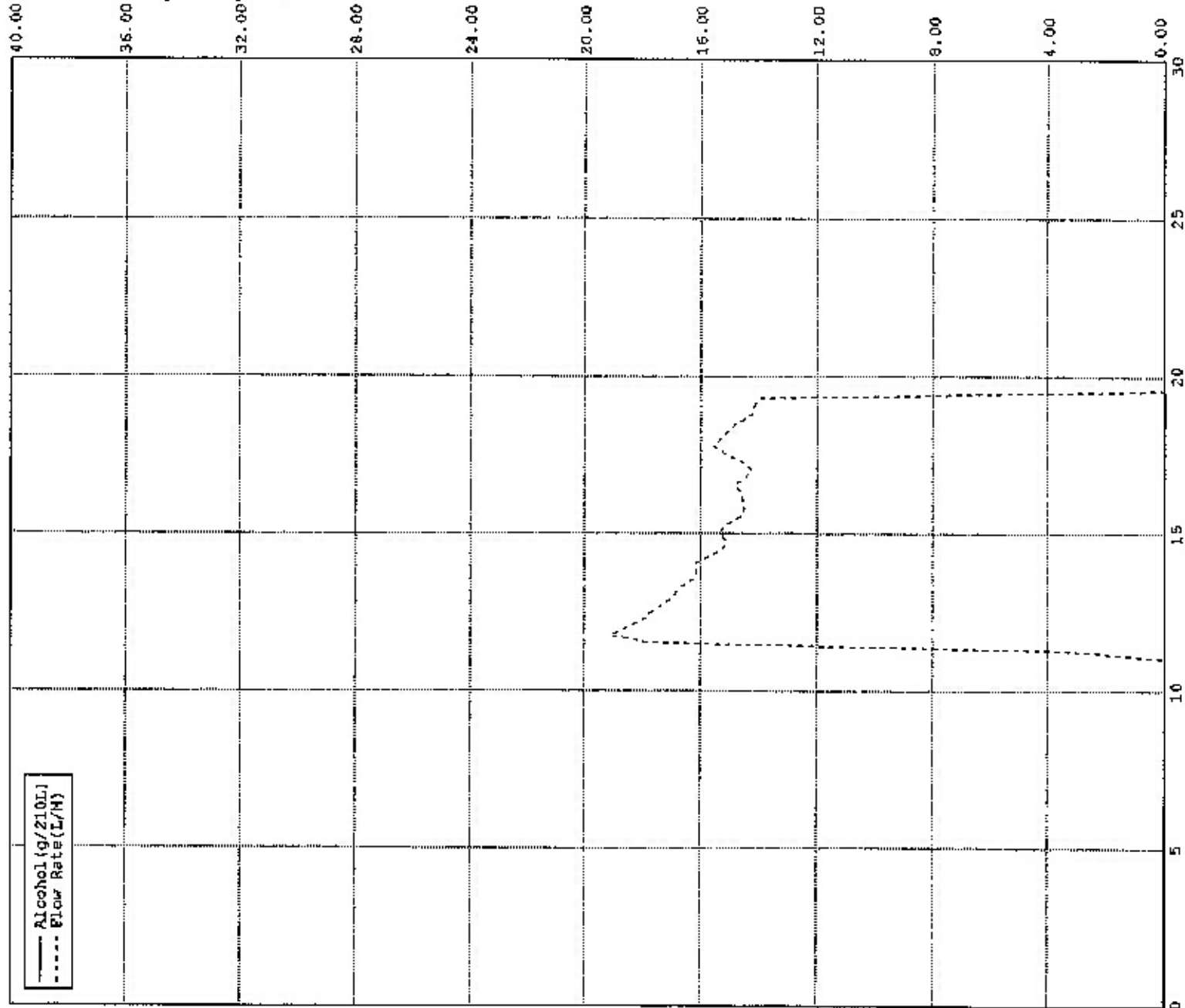
CASE/REPORT: 13-1234  
 TEST TYPE: TEST

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

DIAGNOSTIC CHECK PASSED 10:58  
 BLANK TEST 0.000 10:58  
 INTERNAL STANDARD VERIFIED 10:58  
 EXTERNAL STANDARD 0.076 10:59  
 BLANK TEST 0.000 10:59

RFI DETECTED

CAB 18/19



**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATANASTER dnt: 100411  
 -----  
 Date: 04/26/2013  
 Time: 11:15:54

**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 29.19: 0.078  
 LOT #: D2012080A1  
 EXPIRATION: 03/01/2014

<b>DIAGNOSTIC CHECK</b>	PASSED	11:16
BLANK TEST	0.000	11:17
<b>INTERNAL STANDARD</b>	VERIFIED	11:17
EXTERNAL STANDARD	0.077	11:17
BLANK TEST	0.000	11:18
<b>SUBJECT SAMPLE</b>	0.000	11:18
BLANK TEST	0.000	11:19
<b>EXTERNAL STANDARD</b>	0.076	11:19
BLANK TEST	0.000	11:20

CAB  
 CAB 19/19

Final page for report

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2/18/2014