

## Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Issued: 6/11/2014  
Effective: 6/11/2014

Version: DMCEF 2014 R0  
Status: Active

Instrument S/N 100365 Analyst Colleen O'Bryant Start Date 8/21/14

1. Diagnostic Test (attached) ☒
2. Voltage Checks
  - a. Adjust voltages, if needed ☒
    - i. Lamp (2.6V Maximum)
    - ii. Bias
    - iii. Cooler (2.0V Maximum)
  - 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)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1.4 L (1.3L to 1.7L) ☒
5. 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 11313080A1 Exp 6/1/15
    - iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15
    - v. 0.200g/210L Mnf Guth Lot 14130 Exp 5/2/16
      1. Simulator S/N DR5298 Date Calibrated 2/19/14
    - vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15
      1. Simulator S/N SD1177 Date Calibrated 02/20/14
6. Functional Tests (attached)
  - a. Incomplete ☒
  - b. Invalid ☒
  - c. Interference ☒
    - i. Acetone - Mnf Guth Lot 14030 Level 0.100 Exp 1/20/16
      1. Simulator S/N SD1198 Date Calibrated 2/20/14
    - ii. Isopropanol - Mnf Guth Lot 14030 Level 0.100 Exp 1/20/16
      1. Simulator S/N SD1198 Date Calibrated 2/20/14
    - iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
      1. Simulator S/N DR4161 Date Calibrated 2/19/14
  - d. RFI ☒
7. Verify stylus is calibrated ☒
8. Reset Options ☒
9. Clear Memory ☒
10. Verification of Calibration ☒
11. Non-Drinking Subject Test (attached) ☒
12. Upload ☒

End Date 8/25/14

## DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100365  
-----

Date: 08/21/2014  
Time: 13:58:32

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

## TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 45.3°C	PASSED

PUMP INFO	
Flow Rate = 4.709 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: 100365  
-----

Date: 08/21/2014

Time: 2:37 PM

## Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 44.9°C

Current Barometer 29.9 in

Volume (Ltr) 1.59

## Settings

Lamp: 2.37 V

Bias: 80 V

Cooler: 1.97 V

Chopper: 523 Hz

## Voltages (V)

Flow: 1.04 V

Detector: 0.027 V

## CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100365  
-----

Date: 03/22/2011  
Time: 13:11:54

OPERATOR NAME:  
CHARLES FOSTER  
CERTIFICATE #: 7734

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

Ca = 0.1000  
CAL = 0.979027    0.800 <= CAL < 1.200  
b1 = 0.0007    0.0000 <= b1 < 0.0040  
b2 = 0.0054    0.0010 <= b2 < 0.0100  
b3 = 0.0002    0.0000 <= b3 < 0.0040  
Xq = 0.1046    0.0500 <= Xq < 0.2000  
a21 = 1.174732    1.050 <= a21 < 1.300  
a31 = 0.454689    0.300 <= a31 < 0.800

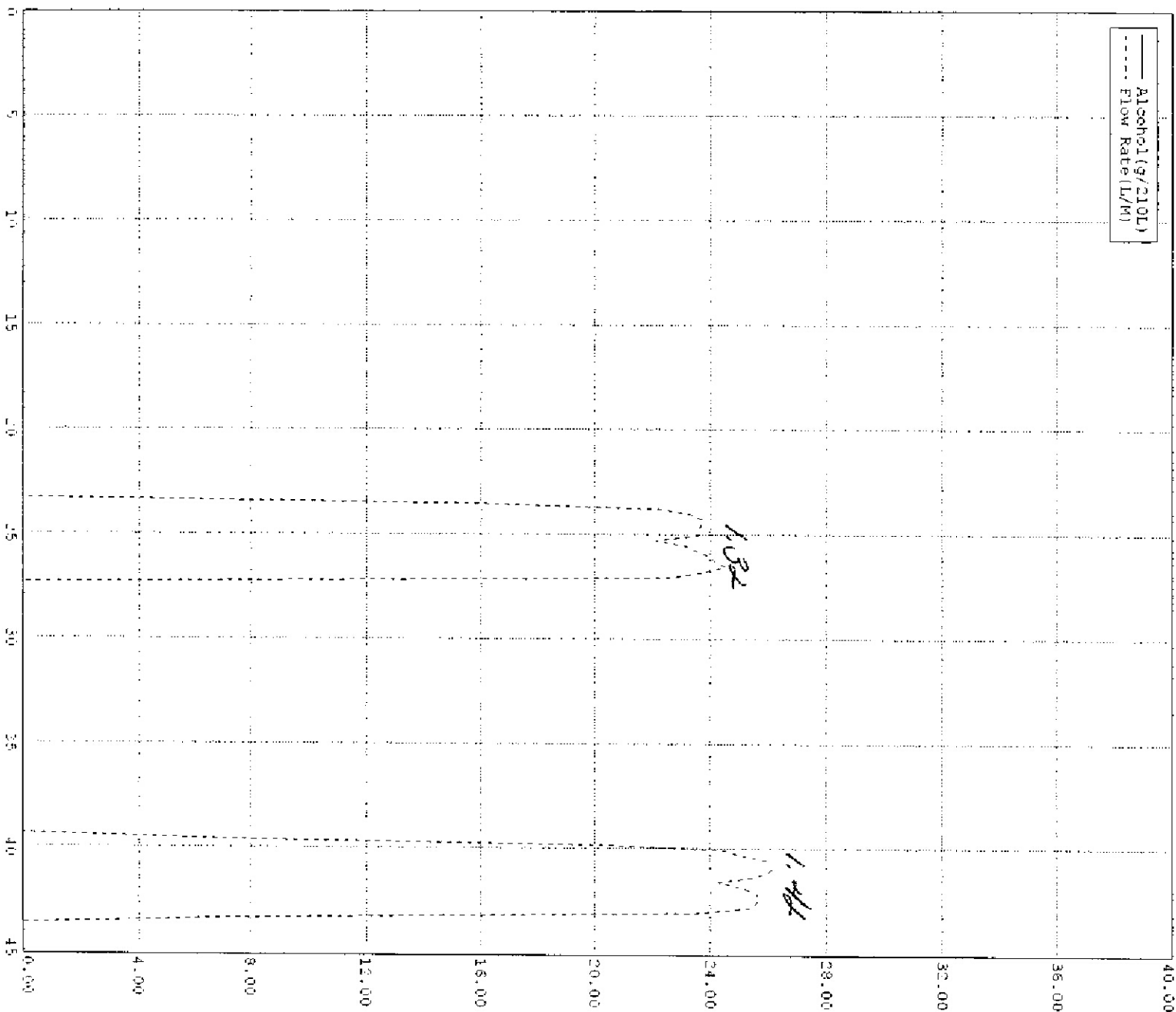


## SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100365Date: 08/21/2014  
Time: 14:39:03SUBJECT NAME:  
TEST TEST  
LICENSE #: VOLUME TESTOPERATOR NAME:  
COLLEEN S O'BRYANT  
OPERATOR'S #: 6237DEPT/AGENCY:  
AAAI  
CASE/REPORT: 14-1234  
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.95: 0.080  
LOT #: 11313080A1  
EXPIRATION: 06/01/2015

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	0.000	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.078	14:43
BLANK TEST	0.000	14:44

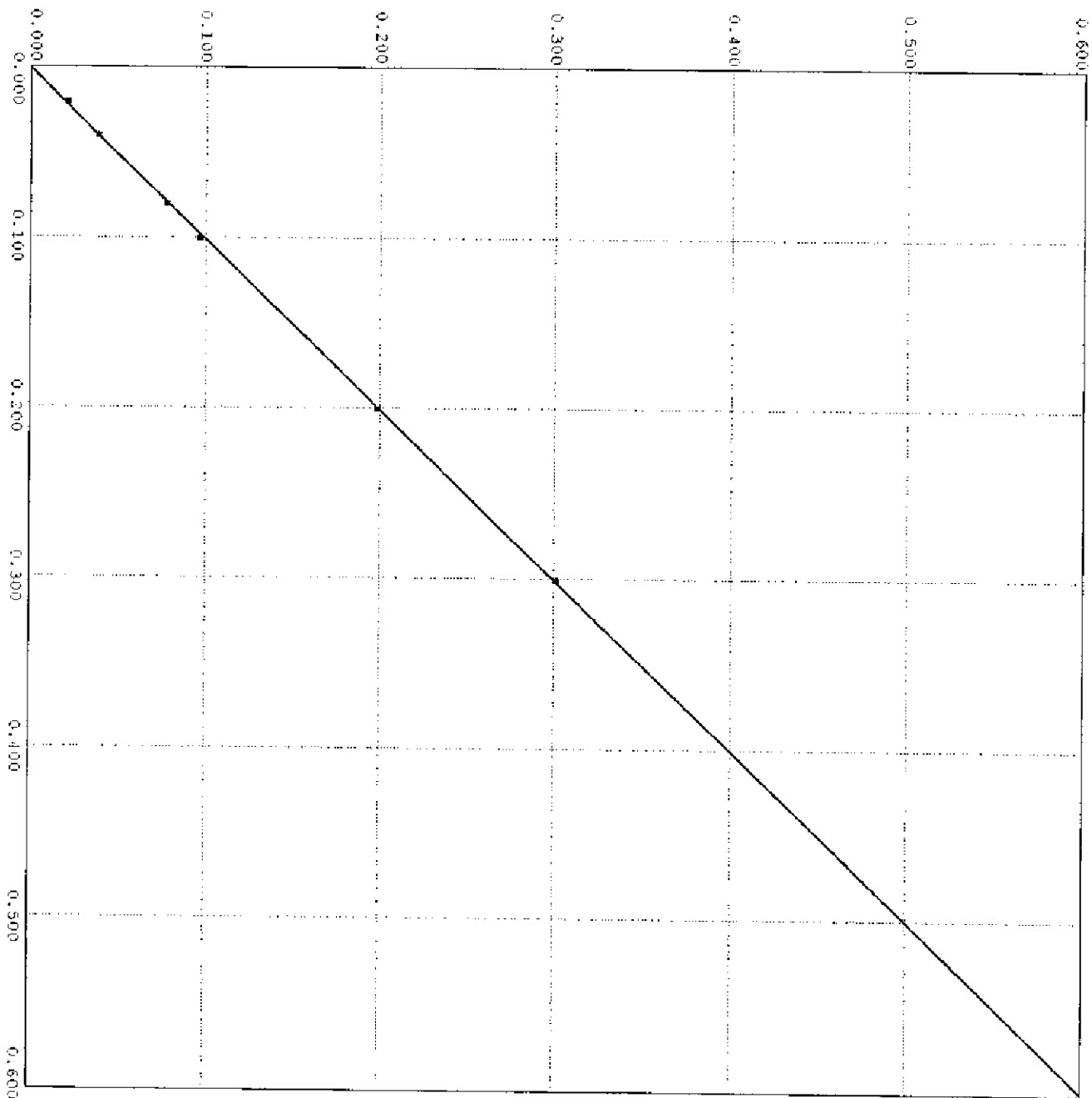
CB



## LINEARITY CHECK

Alaska Department of Public Safety  
DATA MASTER dmt: 100365Date: 08/22/2014  
Time: 11:15:01SUPERVISOR NAME:  
COLLEEN S O'BRYANT  
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0217	0.0003
0.040	0.0400	0.0002
0.080	0.0786	0.0002
0.100	0.0977	0.0007
0.200	0.1995	0.0004
0.300	0.3017	0.0002

SLOPE = 1.003546  
 $R^2$  = 0.999784

CBS

## LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 08/22/2014

Time: 11:15:02

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020

TARGET AT 29.97: 0.020

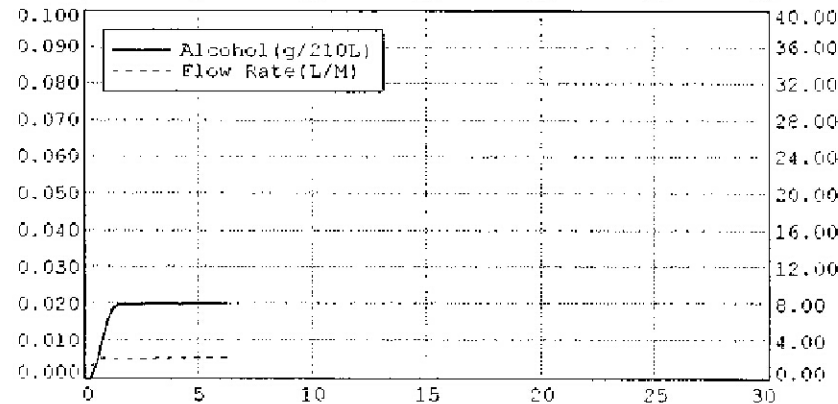
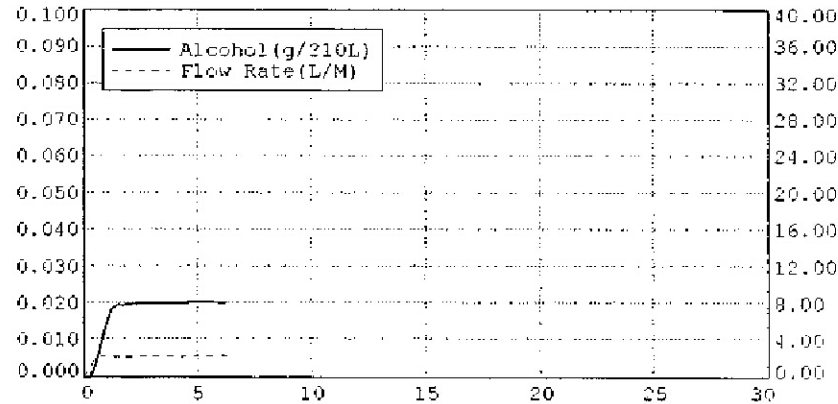
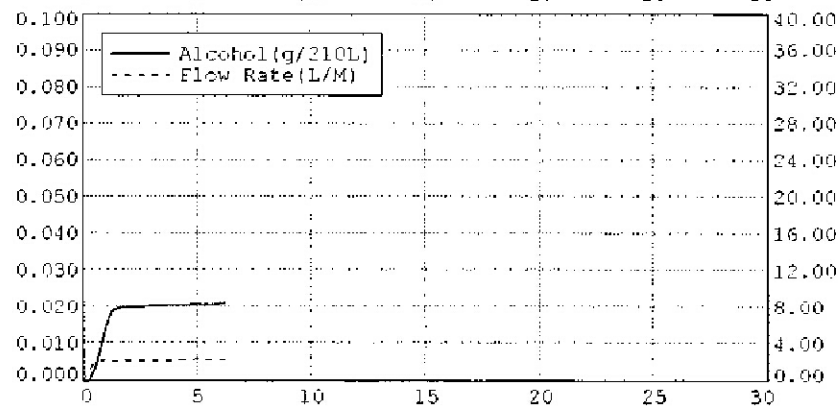
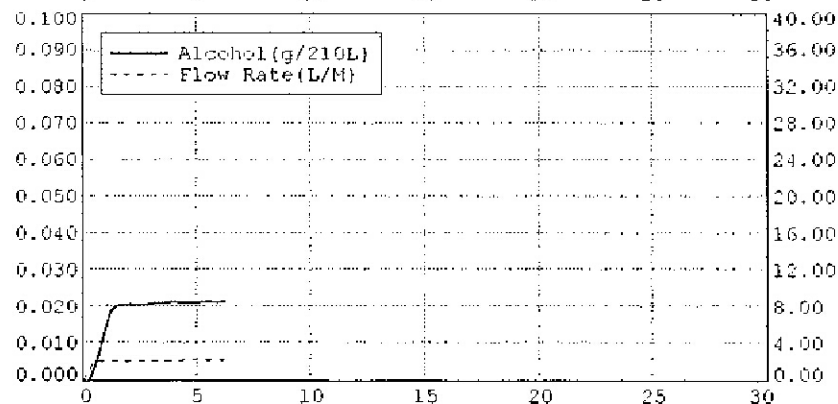
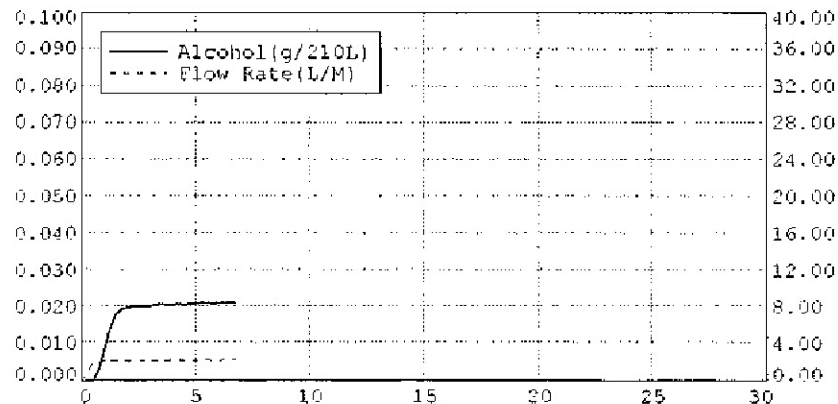
LOT #: 00813020A1

EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:16
EXTERNAL STANDARD	0.022	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.021	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.021	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.021	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.021	11:21
BLANK TEST	0.000	11:21

Average = 0.0217

Std Dev = 0.0003



## LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

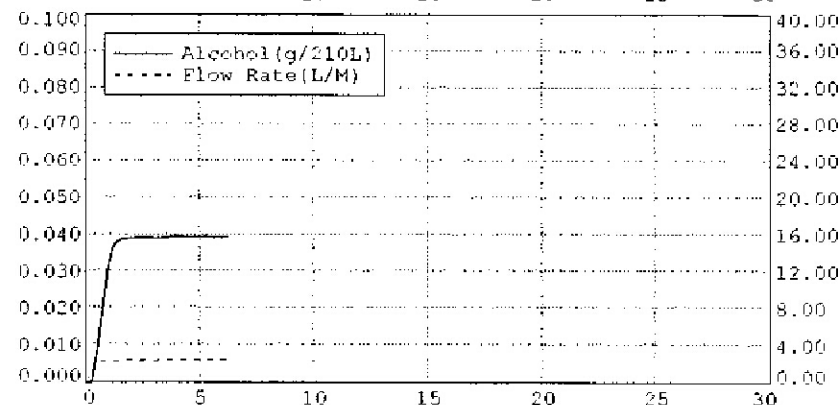
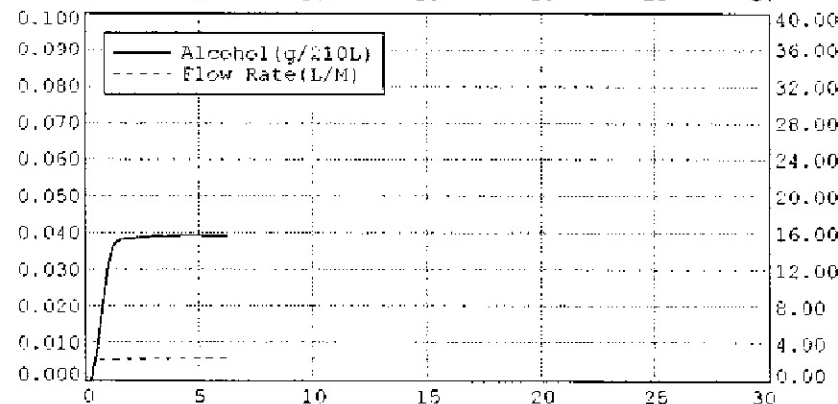
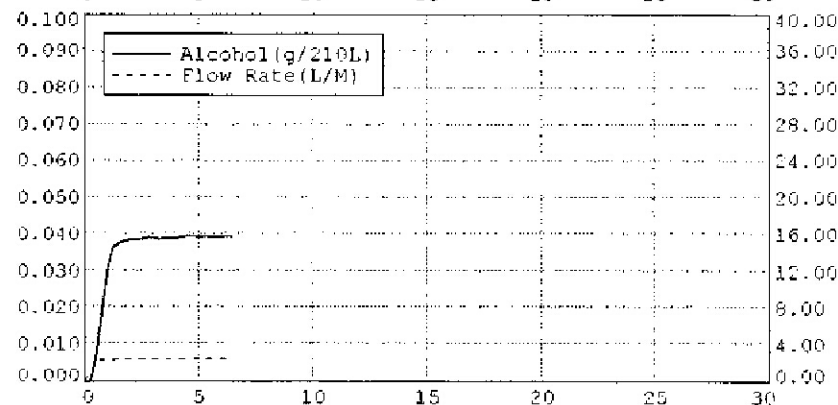
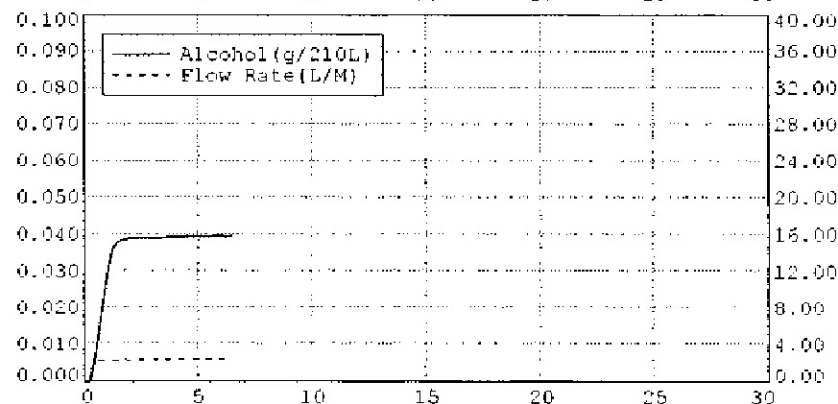
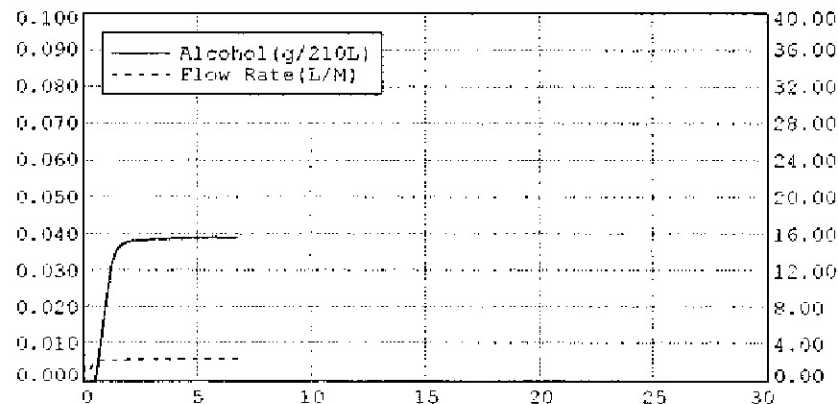
Date: 08/22/2014  
Time: 11:25:08

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
TARGET AT 29.97: 0.040  
LOT #: 00813040A2  
EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:26
INTERNAL STANDARD	VERIFIED	11:26
EXTERNAL STANDARD	0.039	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.040	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.039	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.040	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.040	11:31
BLANK TEST	0.000	11:31

Average = 0.0400  
Std Dev = 0.0002



## LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

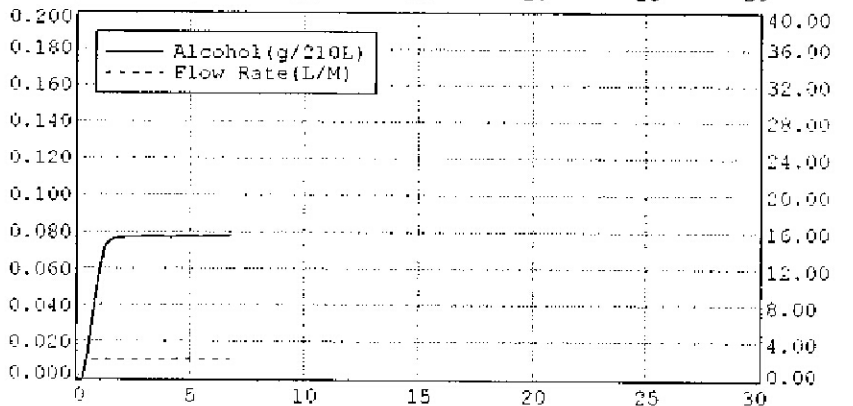
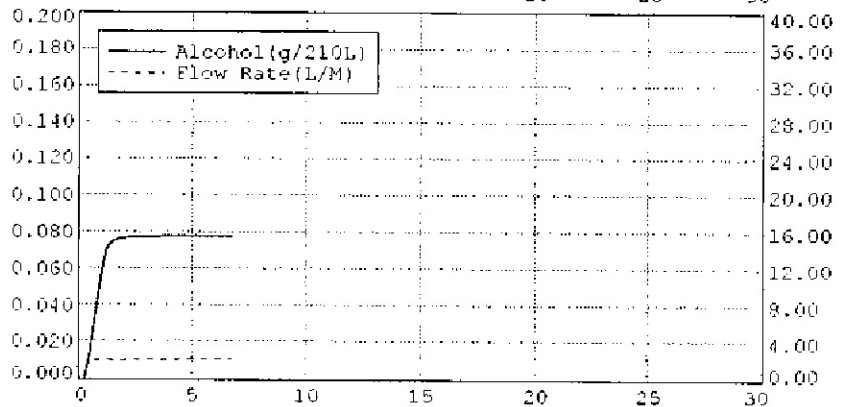
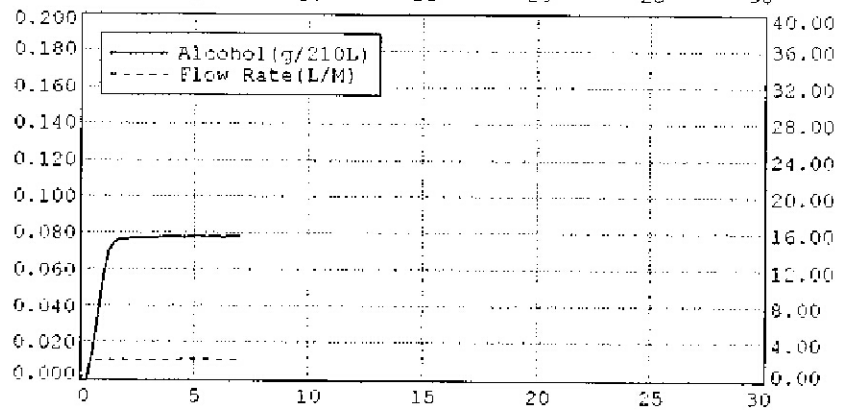
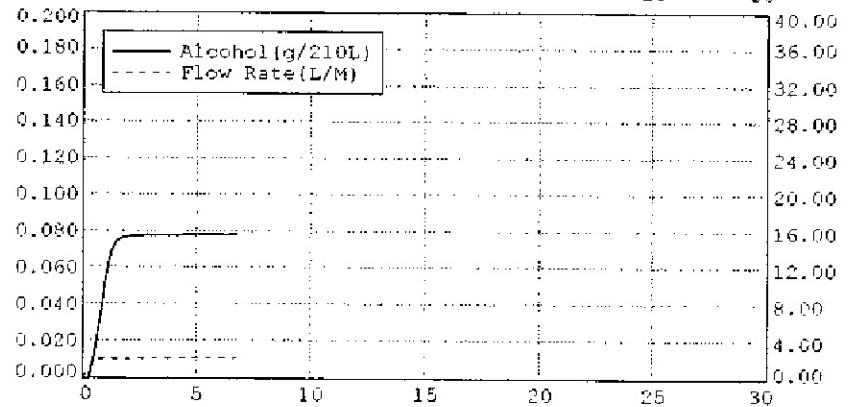
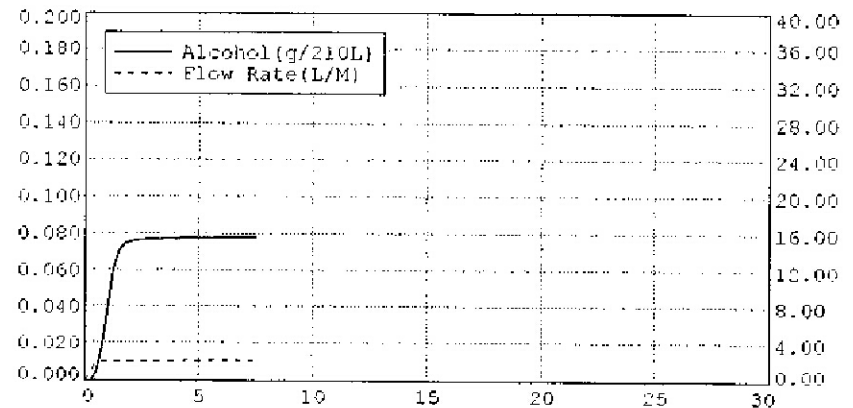
Date: 08/22/2014  
Time: 11:33:12

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.97: 0.080  
LOT #: 11313080A1  
EXPIRATION: 06/01/2015

BLANK TEST	0.000	11:34
INTERNAL STANDARD	VERIFIED	11:34
EXTERNAL STANDARD	0.078	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.079	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.078	11:37
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.078	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.078	11:39
BLANK TEST	0.000	11:40

Average = 0.0786  
Std Dev = 0.0002





## LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

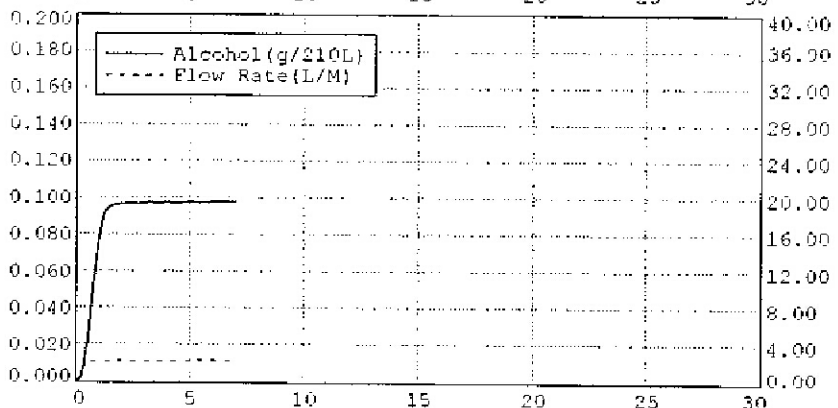
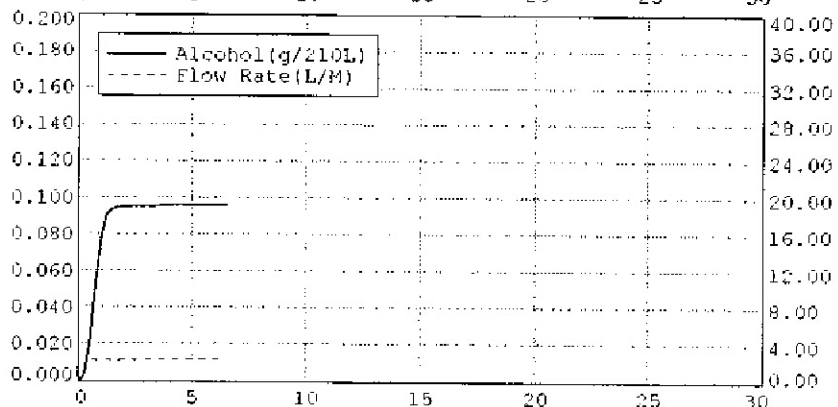
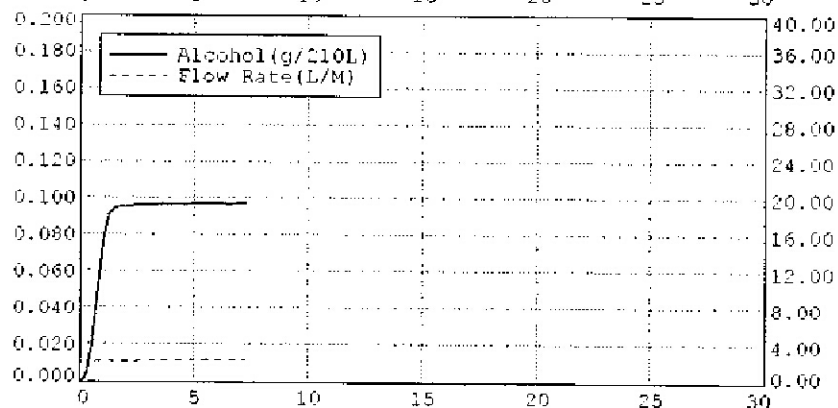
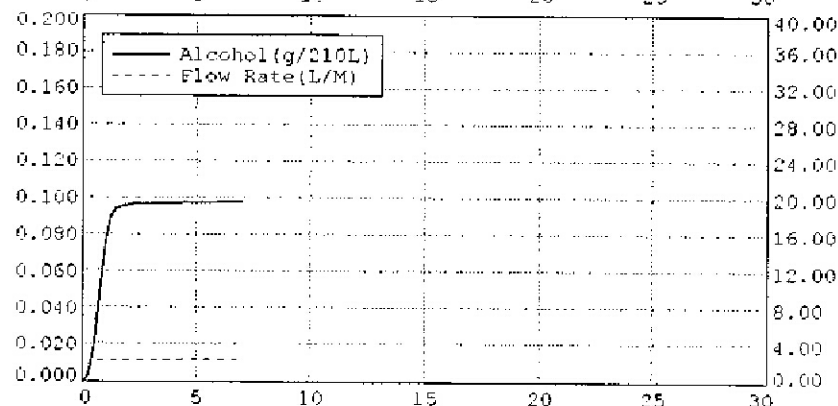
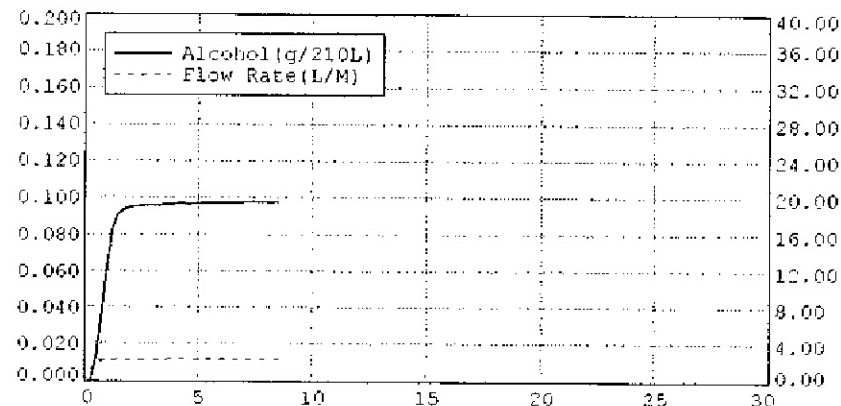
Date: 08/22/2014  
Time: 11:41:07

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
TARGET AT 29.97: 0.100  
LOT #: 00813100A3  
EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:42
INTERNAL STANDARD	VERIFIED	11:42
EXTERNAL STANDARD	0.098	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.097	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.097	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.096	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.098	11:47
BLANK TEST	0.000	11:48

Average = 0.0977  
Std Dev = 0.0007



## LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

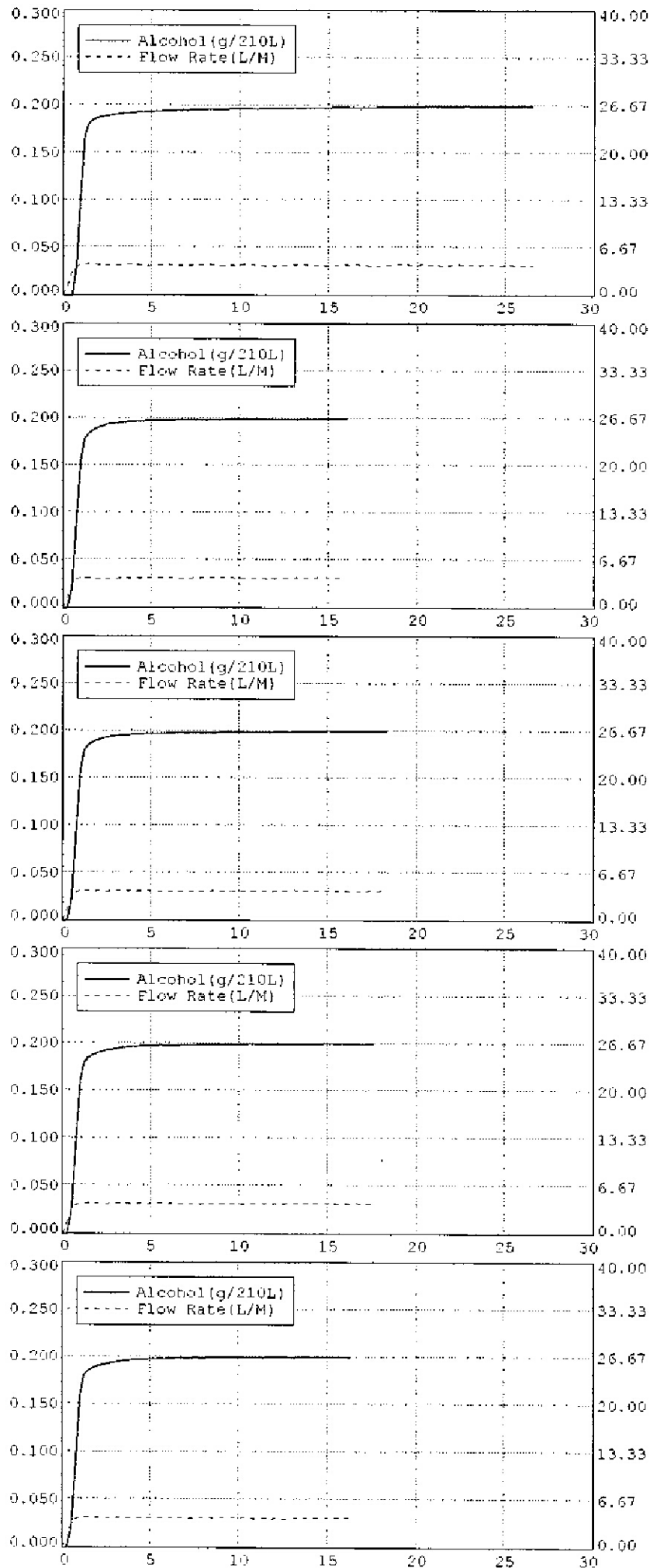
Date: 08/22/2014  
Time: 11:50:12

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
LOT #: 14130  
EXPIRATION: 05/12/2016

BLANK TEST	0.000	11:51
INTERNAL STANDARD	VERIFIED	11:51
EXTERNAL STANDARD	0.198	11:52
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.199	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.199	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.199	11:56
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.199	11:57
BLANK TEST	0.000	11:58

Average = 0.1995  
Std Dev = 0.0004





## LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

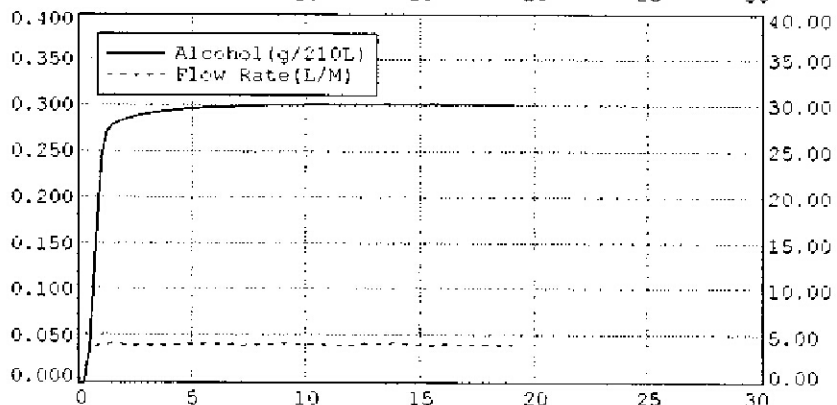
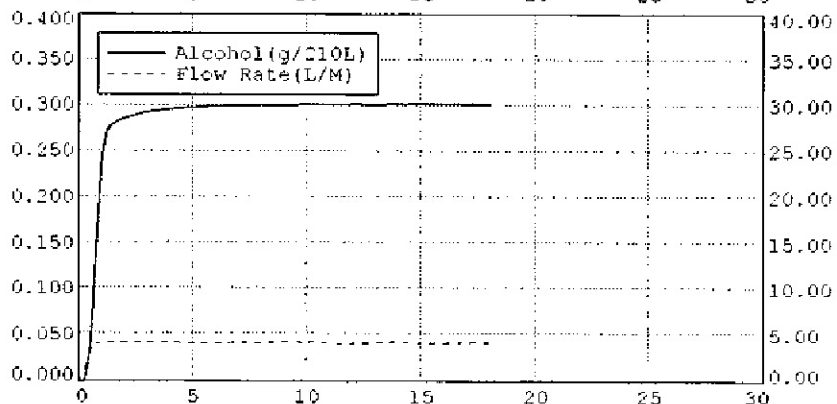
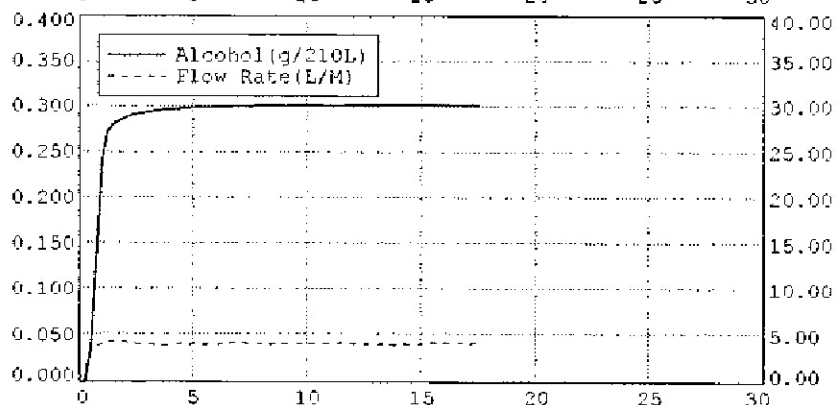
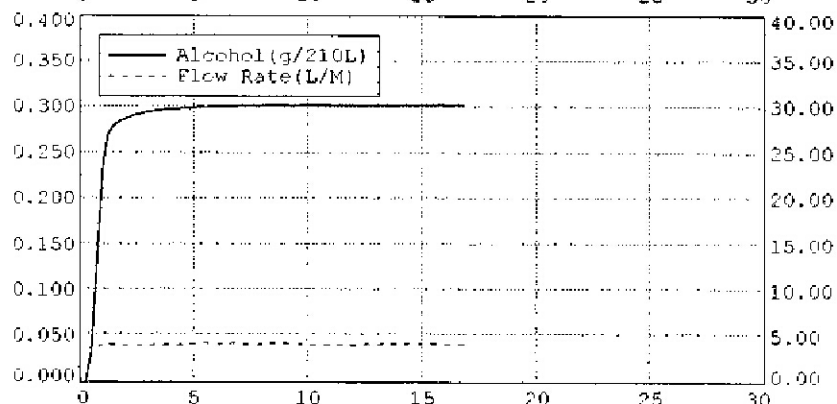
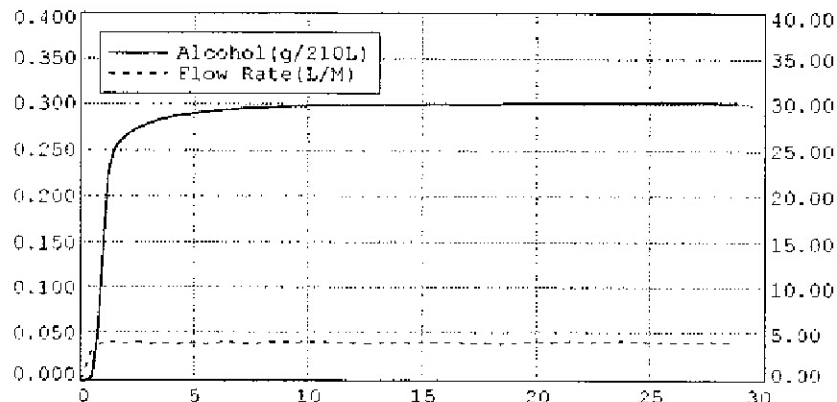
Date: 08/22/2014  
Time: 11:59:47

## EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:00
INTERNAL STANDARD	VERIFIED	12:00
EXTERNAL STANDARD	0.301	12:01
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.301	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.301	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.301	12:05
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.301	12:06
BLANK TEST	0.000	12:07

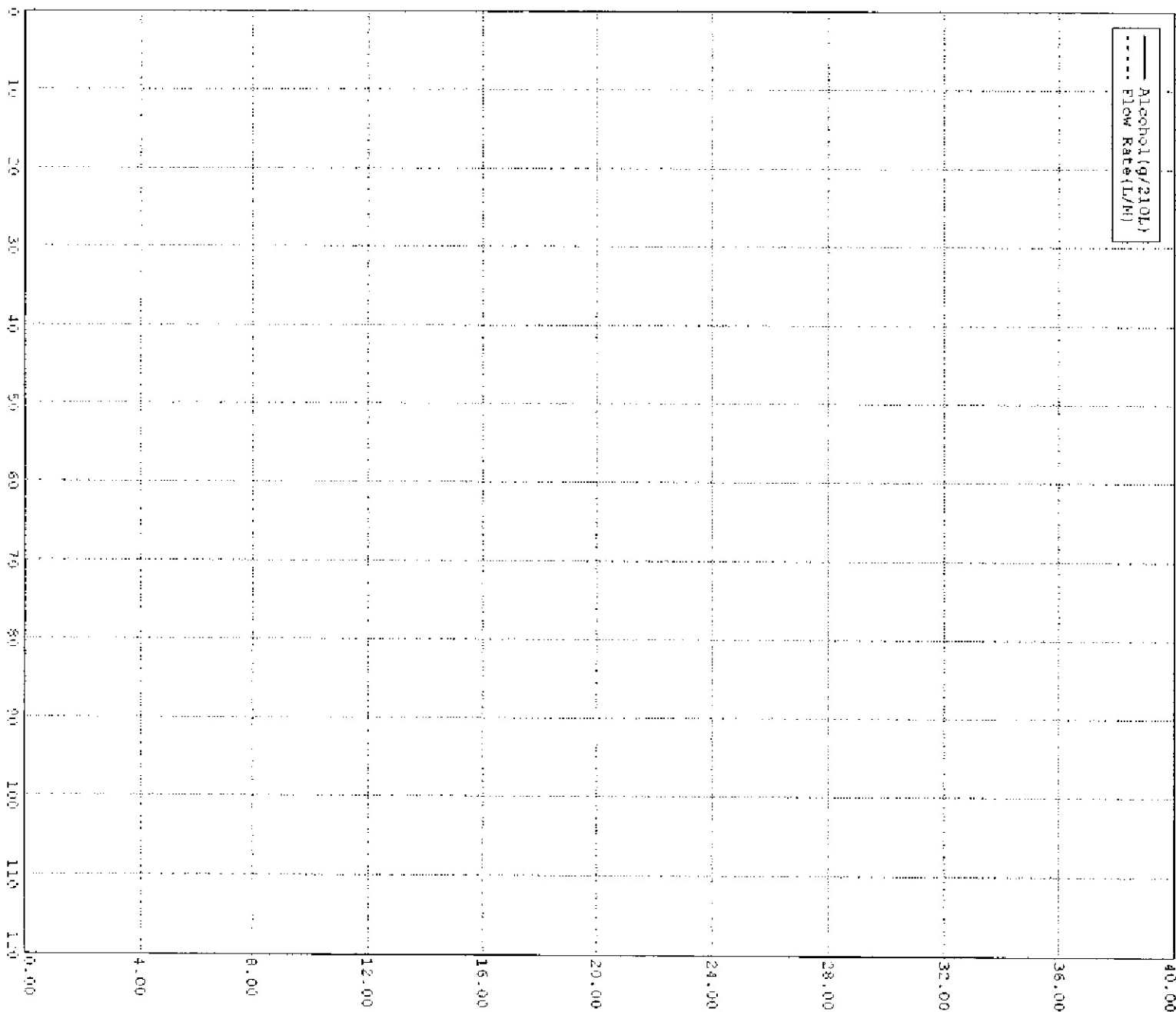
Average = 0.3017  
Std Dev = 0.0002



## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dnt: 100365Date: 08/22/2014  
Time: 15:23:58SUBJECT NAME:  
TEST TEST  
LICENSE #: INCOMPLETEOPERATOR NAME:  
COLLEEN S O'BRYANT  
OPERATOR'S #: 6237DEPT/AGENCY:  
AAAI  
CASE/REPORT: 14-1234  
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.95: 0.080  
LOT #: 11313080A1  
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:30
BLANK TEST	0.000	15:30
INTERNAL STANDARD	VERIFIED	15:30
EXTERNAL STANDARD	0.079	15:30
BLANK TEST	0.000	15:31
SUBJECT SAMPLE	INCOMPLETE	15:33



CB

SUBJECT TEST

Alaska Department of Public Safety  
 DATA MASTER dmt: 100365

Date: 08/22/2014  
 Time: 15:37:59

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INVALID

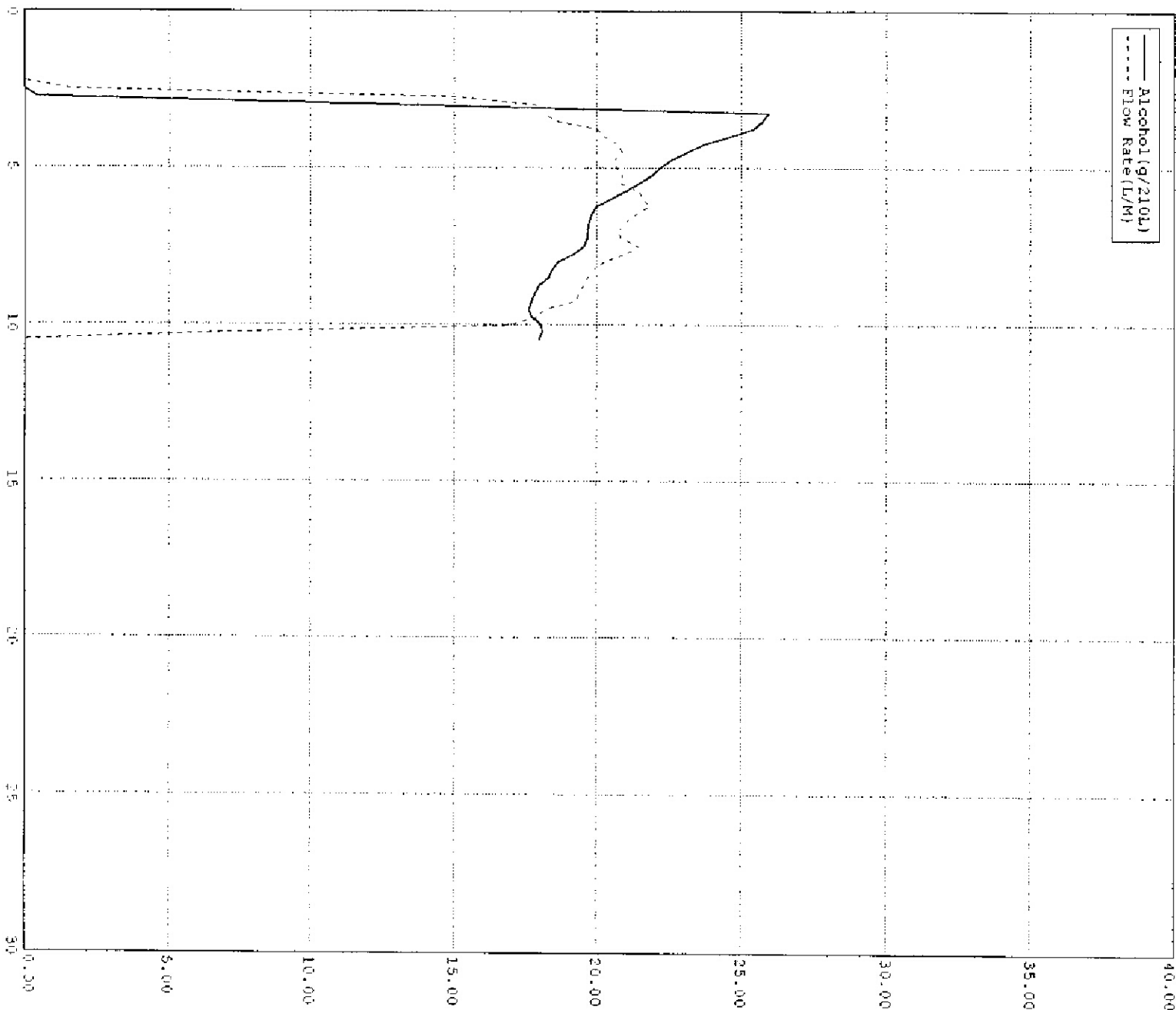
OPERATOR NAME:  
 COLLEEN S O'BRYANT  
 OPERATOR'S #: 6237

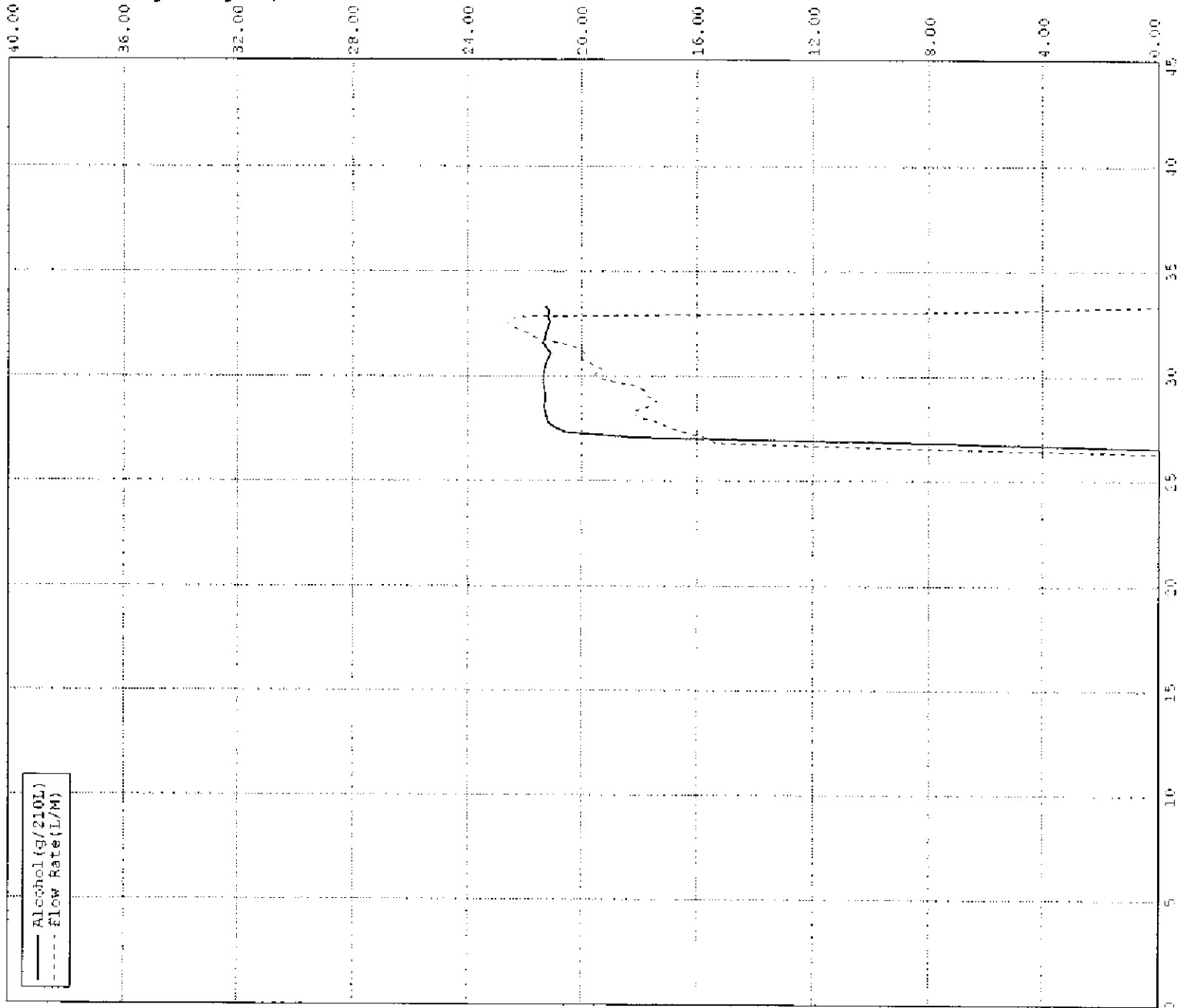
DEPT/AGENCY:  
 AAAA  
 CASE/REPORT: 14-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.95: 0.080  
 LOT #: 11313080A1  
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:45
BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
EXTERNAL STANDARD	0.077	15:45
BLANK TEST	0.000	15:46
SUBJECT SAMPLE	INVALID	15:46

CCB





## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100365

Date: 08/22/2014  
 Time: 15:15:49

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INT-ACTONE

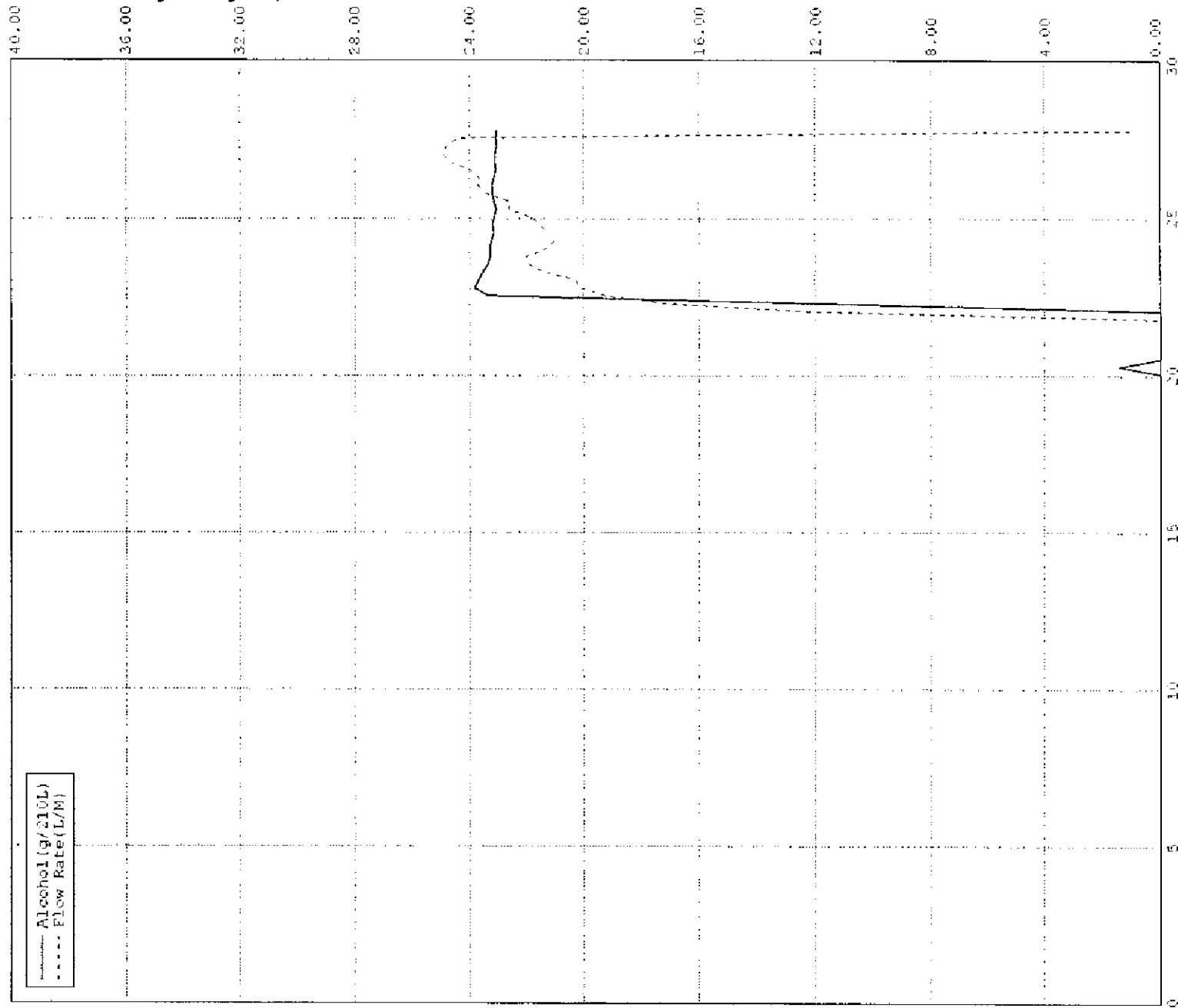
OPERATOR NAME:  
 COLLEEN S O'BRYANT  
 OPERATOR'S #: 6237

DEPT/AGENCY:  
 AAA1  
 CASE/REPORT: 14-1234  
 TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.97: 0.080  
 LOT #: 11313080A1  
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:17
BLANK TEST	0.000	15:17
INTERNAL STANDARD	VERIFIED	15:18
$x_q = 0.107$ (1.93%)		
EXTERNAL STANDARD	0.078	15:18
$x[1] = 0.0784$ (-0.0003) (0.0024)		
BLANK TEST	0.000	15:19
SUBJECT SAMPLE	INTERFERENCE	15:19
$x[1] = 0.1062$ (-0.0172) (0.0000)		



## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 08/22/2014  
Time: 15:06:31

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-IPA

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

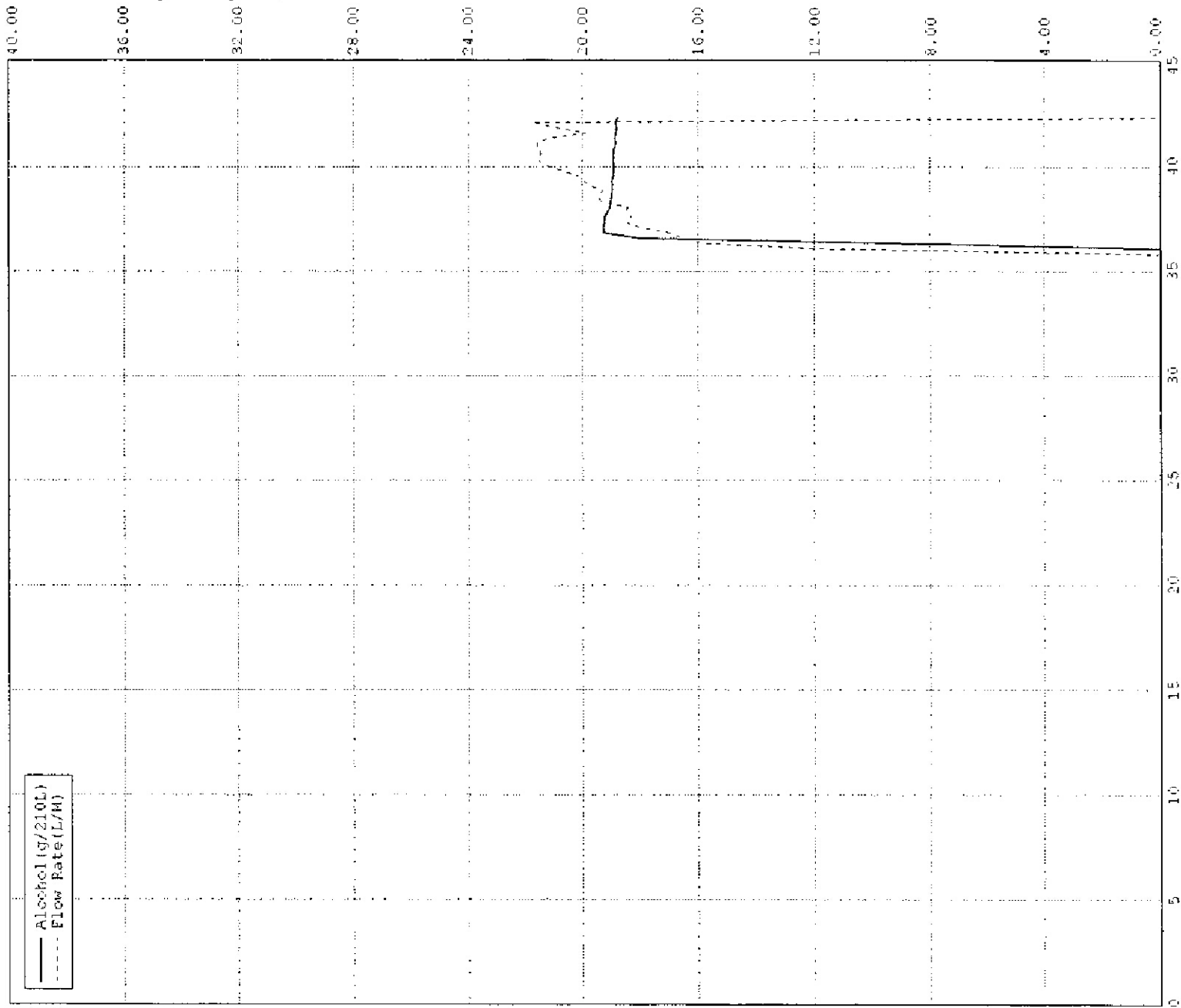
DEPT/AGENCY:  
AAA1

CASE/REPORT: 14-1234  
TEST TYPE: TEST

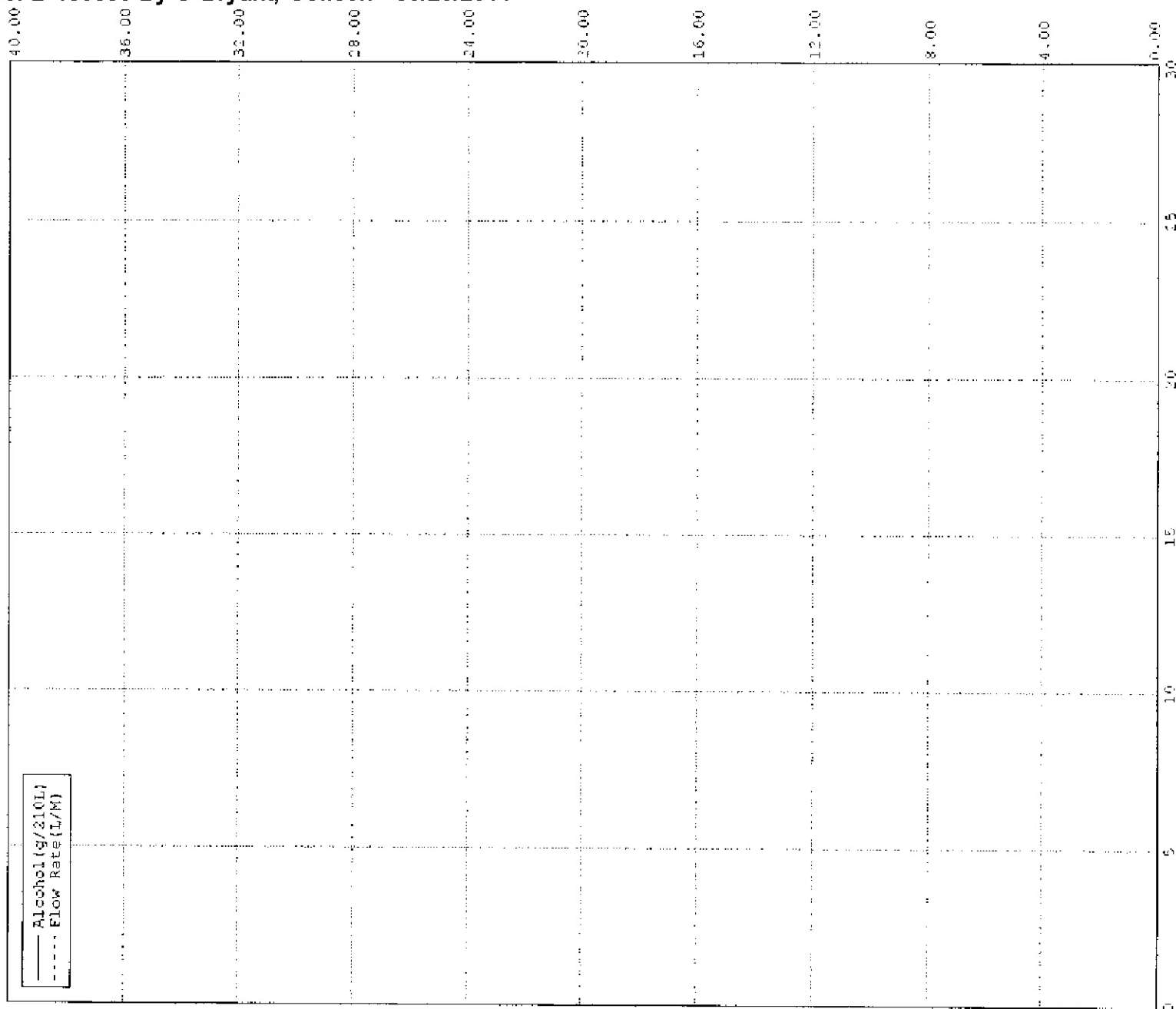
## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.97: 0.080  
LOT #: 11313080A1  
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:07
PLANK TEST	0.000	15:07
INTERNAL STANDARD	VERIFIED	15:07
$Xg = 0.107$ (2.10%)		
EXTERNAL STANDARD	0.079	15:08
$X[1] = 0.0793$ (0.0002)	(0.0034)	
BLANK TEST	0.000	15:09
SUBJECT SAMPLE	INTERFERENCE	15:09
$X[1] = 0.1155$ (-0.0216)	(0.0026)	



<b>SUBJECT TEST</b>	
Alaska Department of Public Safety DATAMASTER dmt: 100365 <hr/> Date: 08/22/2014 Time: 14:54:55	
<b>SUBJECT NAME:</b> TEST TEST LICENSE #: INT-NEGATIVE	
<b>OPERATOR NAME:</b> COLLEEN S O'BRYANT OPERATOR'S #: 6237	
<b>DEPT/AGENCY:</b> AAA1	
<b>CASE/REPORT:</b> 14-1234 <b>TEST TYPE:</b> TEST	
<b>EXTERNAL STANDARD INFORMATION</b> NOMINAL: 0.080 TARGET AT 29.97: 0.080 LOT #: 11313080A1 EXPIRATION: 06/01/2015	
<b>DIAGNOSTIC CHECK</b> BLANK TEST INTERNAL STANDARD $X_q = 0.106$ (1.68%) EXTERNAL STANDARD $X[1] = 0.0788$ (-0.0001) (0.0031)	PASSED 14:56 0.000 14:56 VERIFIED 14:56 0.078 14:56
BLANK TEST SUBJECT SAMPLE (Vol=2.01L) $X[1] = 0.0945$ (0.0016) (0.0009)	0.000 14:57 0.094 14:58
BLANK TEST EXTERNAL STANDARD $X[1] = 0.0776$ (-0.0004) (0.0020)	0.000 14:59 0.077 14:59
BLANK TEST	0.000 15:00
<p> <i>Filter 2 avg = -0.0002</i>  <i>Filter 3 avg = 0.0007</i> </p> <p style="text-align: right;"><i>OB</i></p>	



## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 08/22/2014  
Time: 15:49:10

SUBJECT NAME:  
TEST TEST  
LICENSE #: RFI

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

DEPT/AGENCY:  
AAA1

CASE/REPORT: 14-1234  
TEST TYPE: TEST

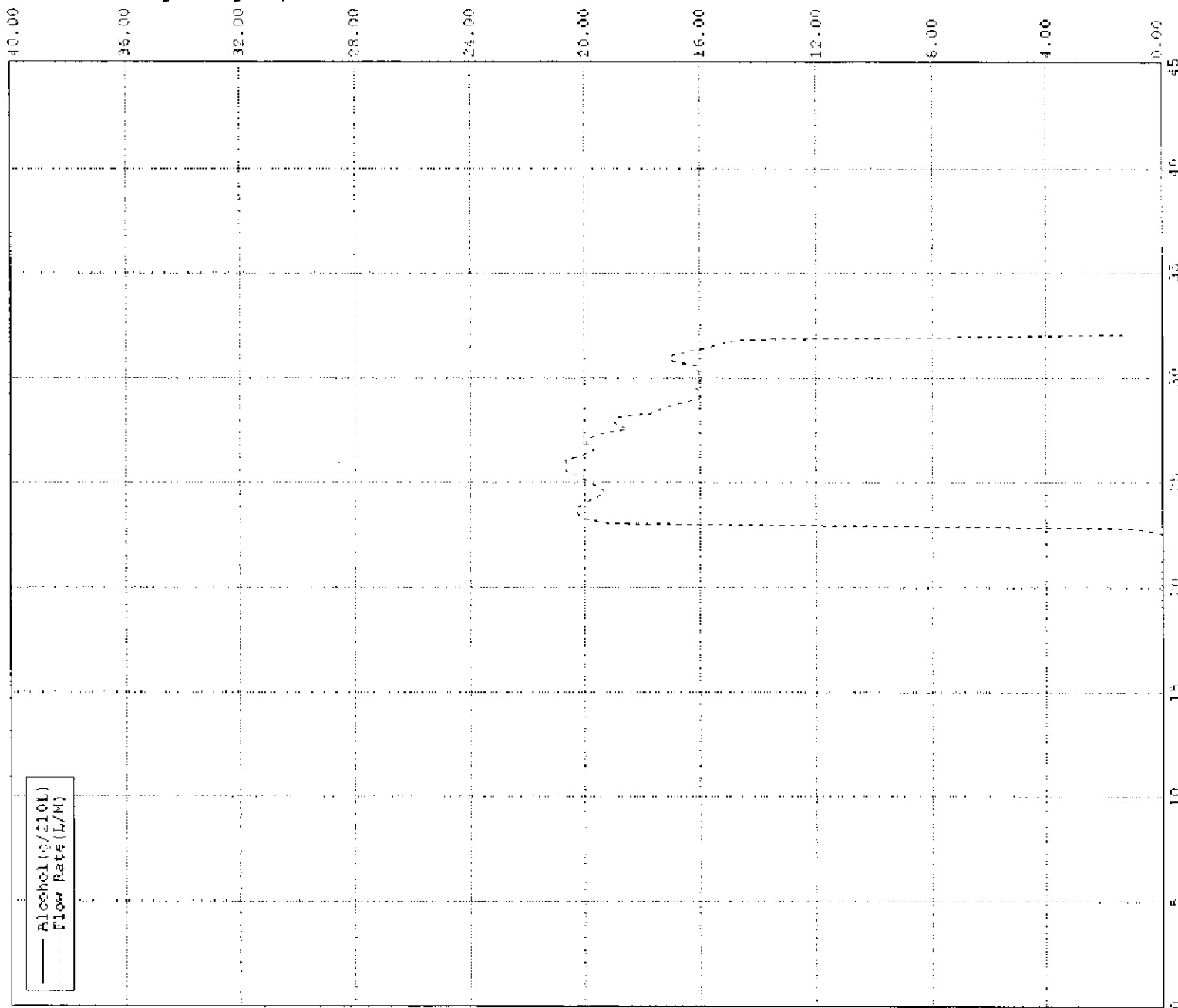
## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.93: 0.080  
LOT #: 11313080A1  
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED 15:52
BLANK TEST	0.000 15:52
INTERNAL STANDARD	VERIFIED 15:52
EXTERNAL STANDARD	0.079 15:52
BLANK TEST	0.000 15:53

RFI DETECTED





## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100365

Date: 08/25/2014  
 Time: 06:17:08

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: NONDRINKING

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

DEPT/AGENCY:  
 AAA1

CASE/REPORT: 14-1234  
 TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.38: 0.078  
 LOT #: 11313080A1  
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	06:18
BLANK TEST	0.000	06:18
INTERNAL STANDARD	VERIFIED	06:18
EXTERNAL STANDARD	0.077	06:18
BLANK TEST	0.000	06:19
SUBJECT SAMPLE	0.000	06:20
BLANK TEST	0.000	06:21
EXTERNAL STANDARD	0.076	06:21
BLANK TEST	0.000	06:22

Final page for report

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10/13/2014