

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100370 Analyst Colleen O'Bryant Start Date 9/23/13

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 1500 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf TLMO Lot 00813020A1 Exp 03/01/2015

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

iii. 0.080g/210L Mnf TLMO Lot 00013080A1 Exp 03/01/2014

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

v. 0.200g/210L Mnf Guth Lot 13120 Exp 08/10/2014

1. Simulator S/N 01198 Date Calibrated 01/23/2013

vi. 0.300g/210L Mnf Guth Lot 13080 Exp 03/19/2015

1. Simulator S/N 01088 Date Calibrated 01/23/2013

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 13010 Level 0.10 Exp 01/09/2015

1. Simulator S/N DE 5298 Date Calibrated 10/08/2012

ii. Isopropanol - Mnf Guth Lot 13010 Level 0.10 Exp 01/09/2015

1. Simulator S/N SD 1202 Date Calibrated 10/09/2012

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/2013

1. Simulator S/N SD 1199 Date Calibrated 01/23/2013

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 9/23/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 09/23/2013
Time: 09:19:22

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 5.227 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: 100370

Date: 09/23/2013
Time: 9:28 AM

Temperatures [°C]

Sample Cell: 48.5°C
Breath Tube: 47.8°C

Current Barometer 28.8 in
Volume (Ltr) 1.56

Settings

Lamp: 1.77 V
Bias: 80 V
Cooler: 1.76 V
Chopper: 541 Hz

Voltages (V)

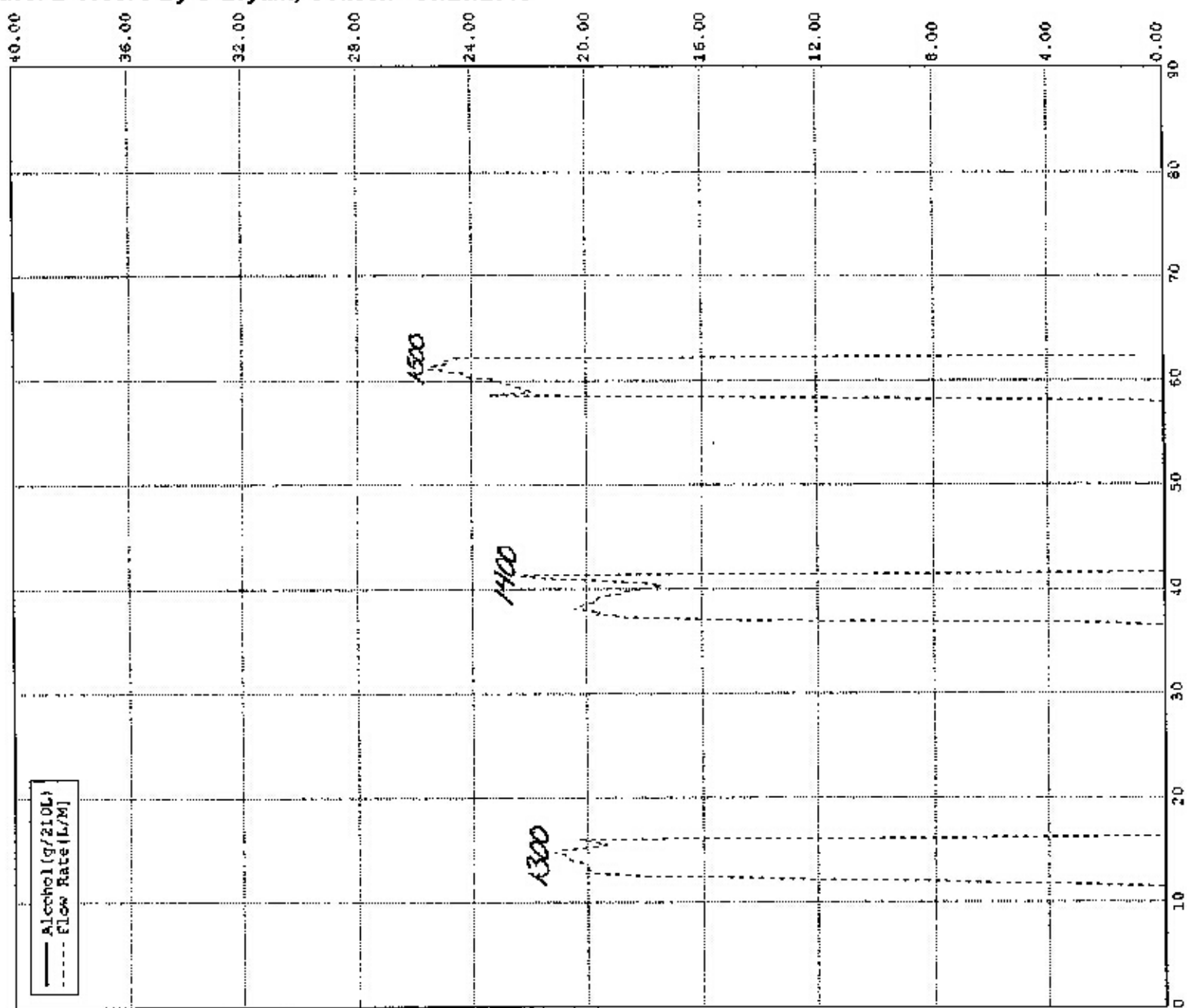
Flow: 1.06 V
Detector: 0.002 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100370

Date: 09/19/2010
Time: 17:02:07

Ca	=	0.1000			
CAL	=	0.985723	0.800	<=	CAL < 1.200
b1	=	0.0000	0.0000	<=	b1 < 0.0040
b2	=	0.0023	0.0010	<=	b2 < 0.0100
b3	=	0.0000	0.0000	<=	b3 < 0.0040
Xq	=	0.0889	0.0500	<=	Xq < 0.2000
a21	=	1.164153	1.050	<=	a21 < 1.300
a31	=	0.465013	0.300	<=	a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100370

Date: 09/23/2013
 Time: 10:13:38

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

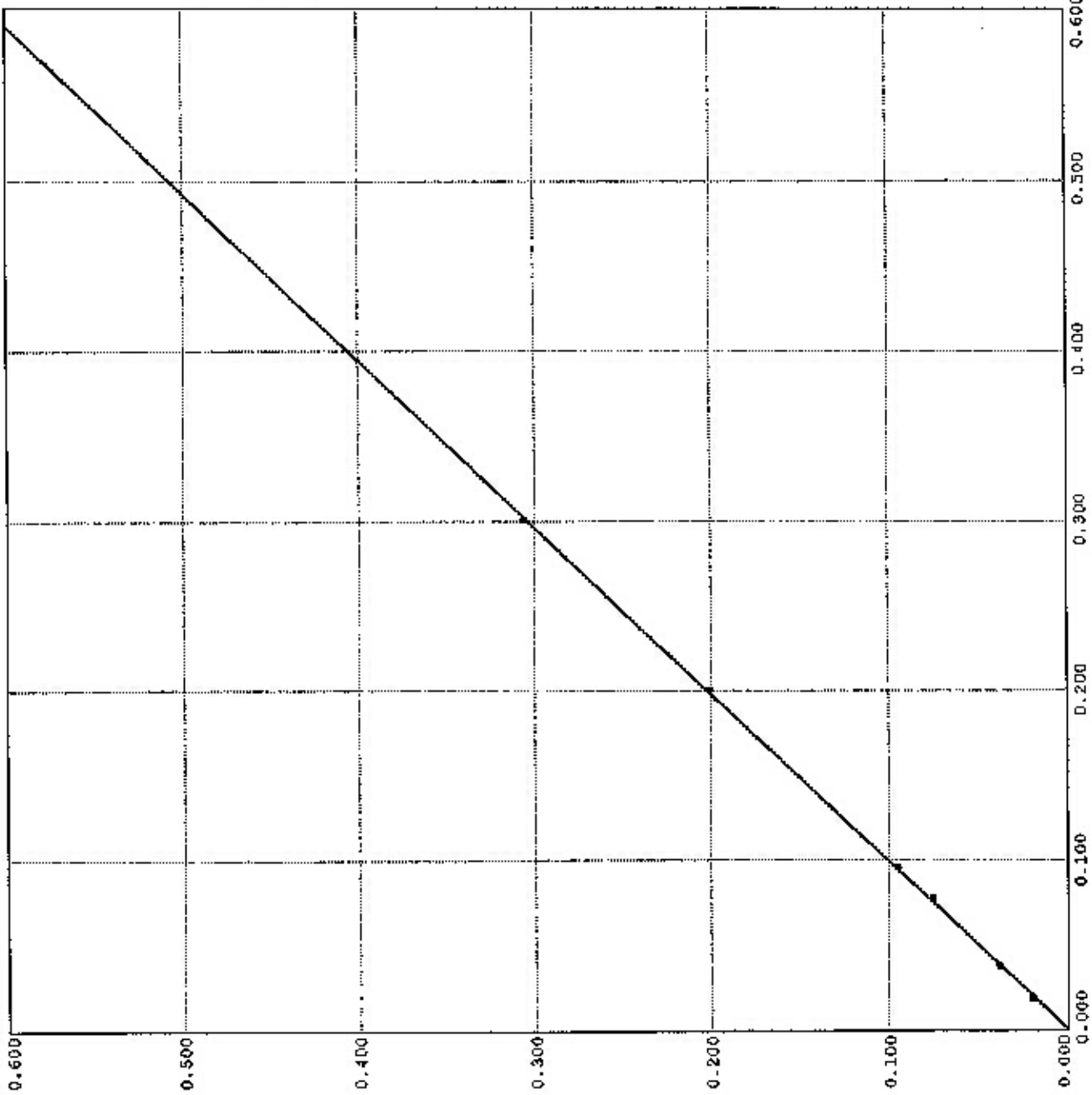
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.91: 0.077
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	10:14
BLANK TEST	0.000	10:14
INTERNAL STANDARD	VERIFIED	10:14
EXTERNAL STANDARD	0.076	10:15
BLANK TEST	0.000	10:16
SUBJECT SAMPLE	0.000	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.076	10:18
BLANK TEST	0.000	10:19

CS



LINEARITY CHECK	
Alaska Department of Public Safety	
DATA MASTER dmt: 100370	
Date: 09/23/2013	
Time: 10:37:25	
SUPERVISOR NAME:	
COLLEEN S O'BRYANT	
OPERATOR'S #: 5237	
TARGET	AVERAGE
0.019	0.0206
0.038	0.0396
0.077	0.0765
0.096	0.0959
0.200	0.2016
0.300	0.3068
	STD. DEV.
	0.0002
	0.0003
	0.0006
	0.0004
	0.0005
	0.0006
SLOPE	= 1.018338
R ²	= 0.999755

CSB

LINEARITY CHECK: Control Test 1

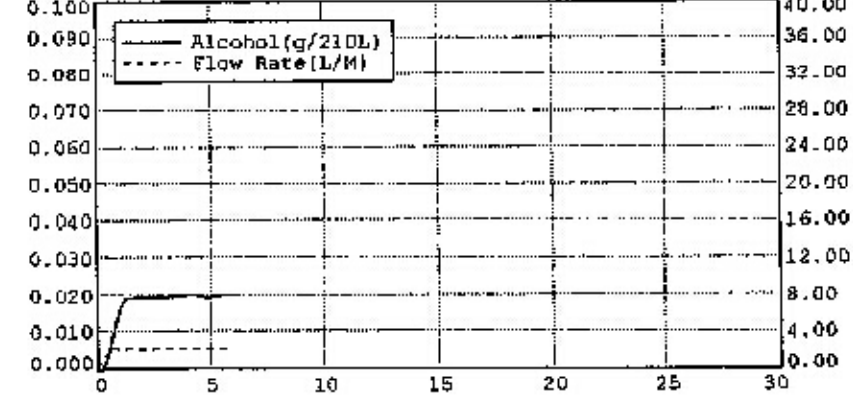
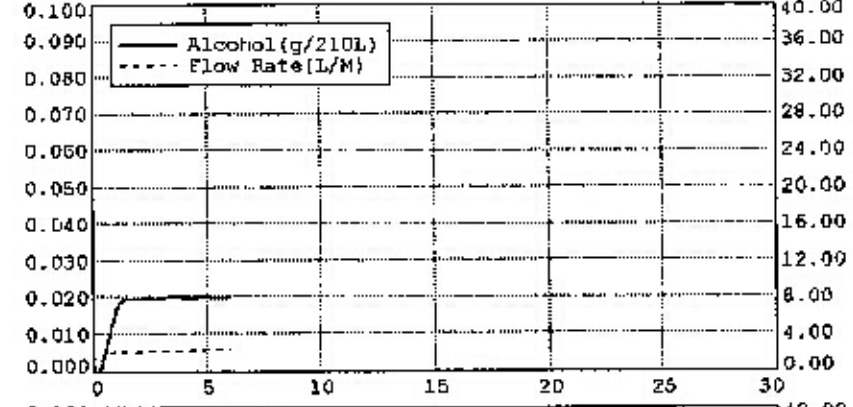
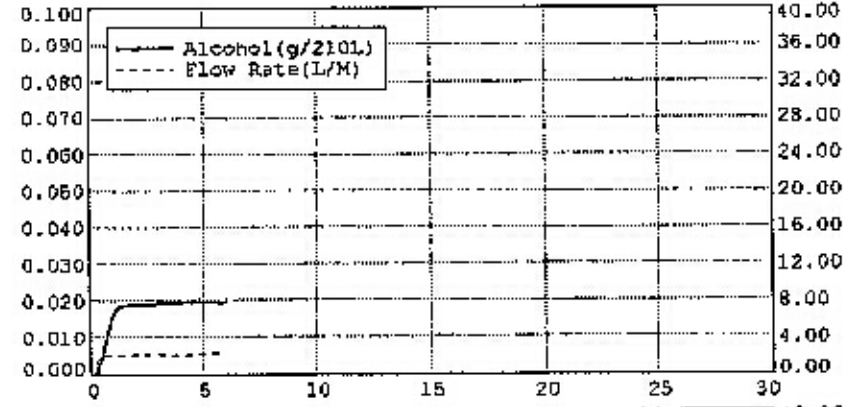
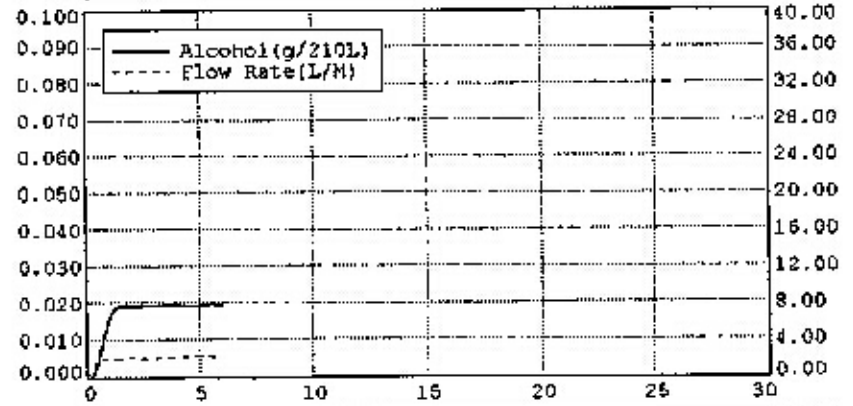
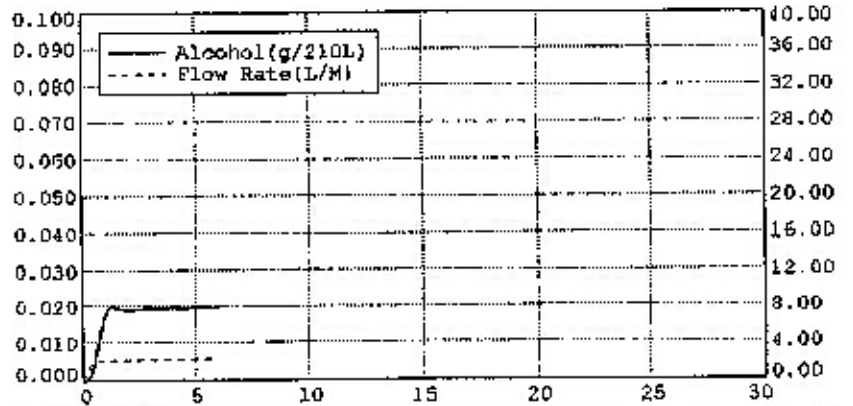
Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 09/23/2013
 Time: 10:37:26

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 26.82: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:38
INTERNAL STANDARD	VERIFIED	10:38
EXTERNAL STANDARD	0.020	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.020	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.020	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.020	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.020	10:43
BLANK TEST	0.000	10:44

Average = 0.0206
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

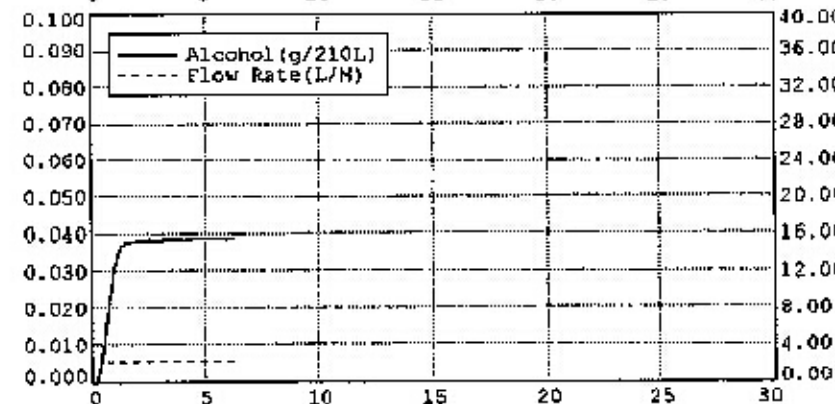
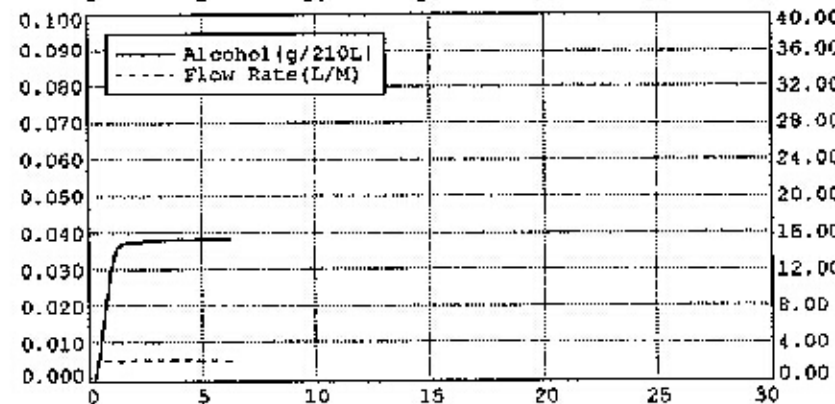
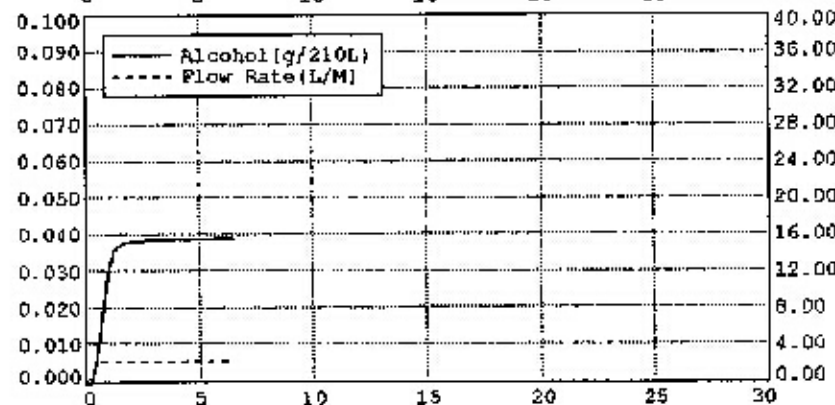
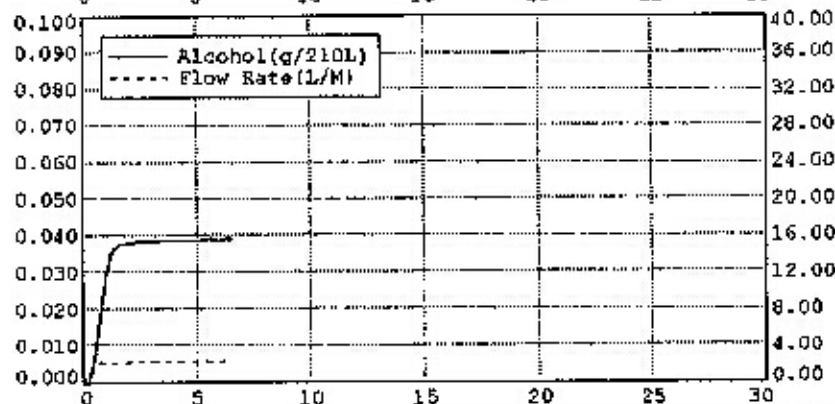
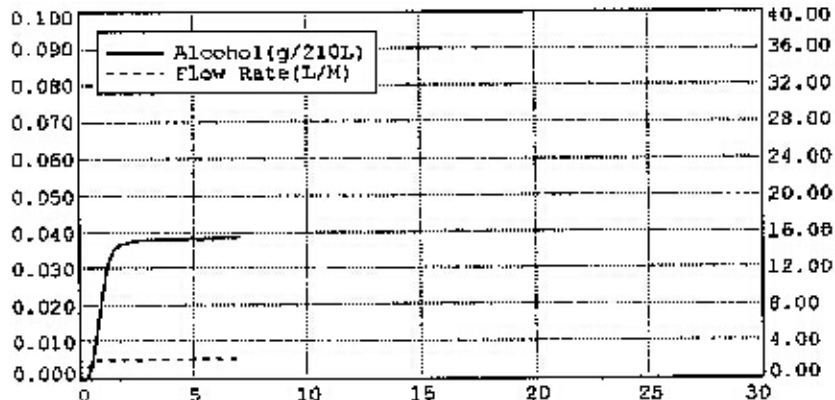
Date: 09/23/2013
 Time: 10:44:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 28.82: 0.038
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:46
INTERNAL STANDARD	VERIFIED	10:46
EXTERNAL STANDARD	0.039	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.039	10:48
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.039	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.039	10:51
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.039	10:51
BLANK TEST	0.000	10:52

Average = 0.0396
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

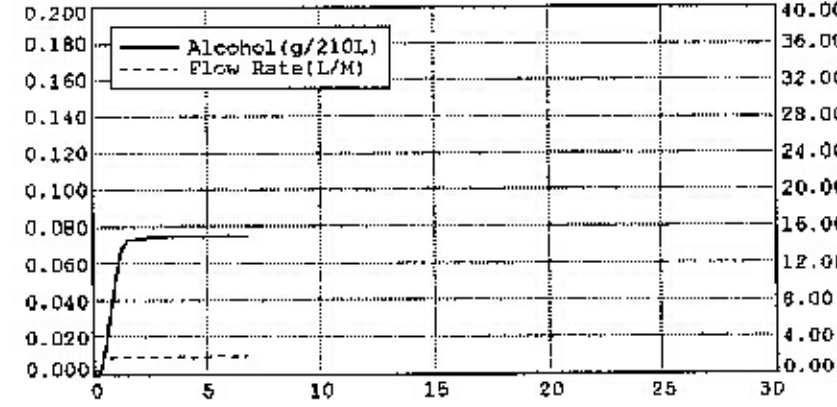
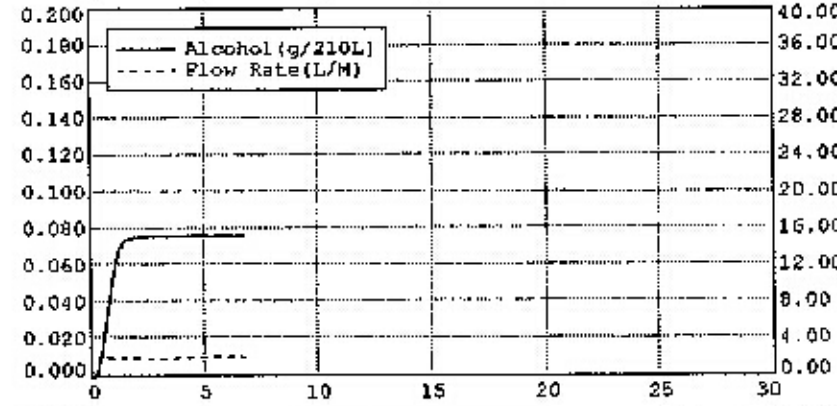
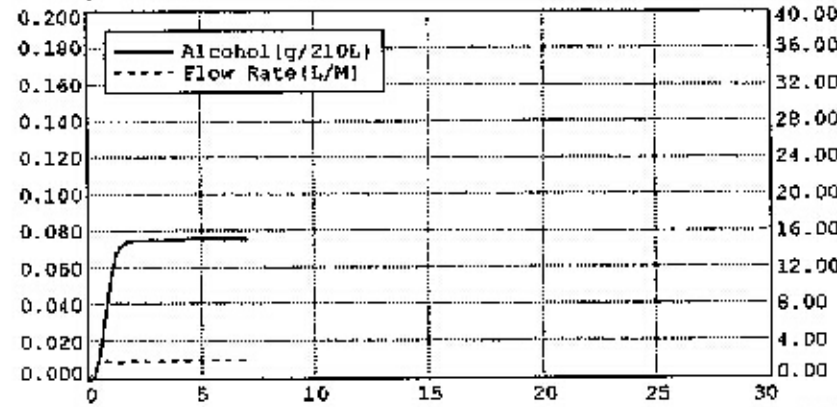
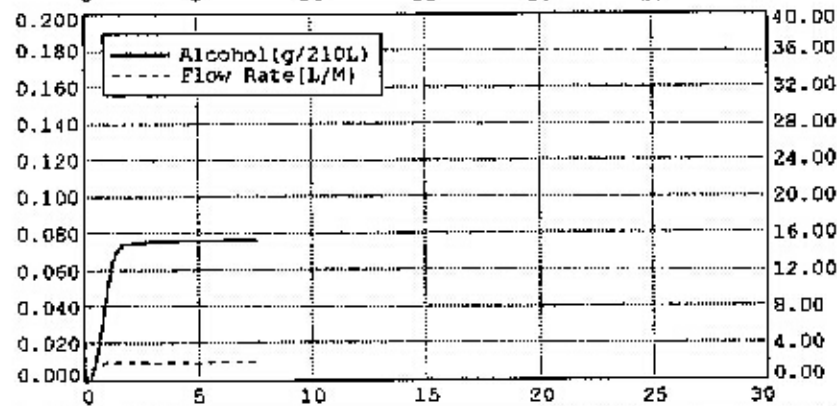
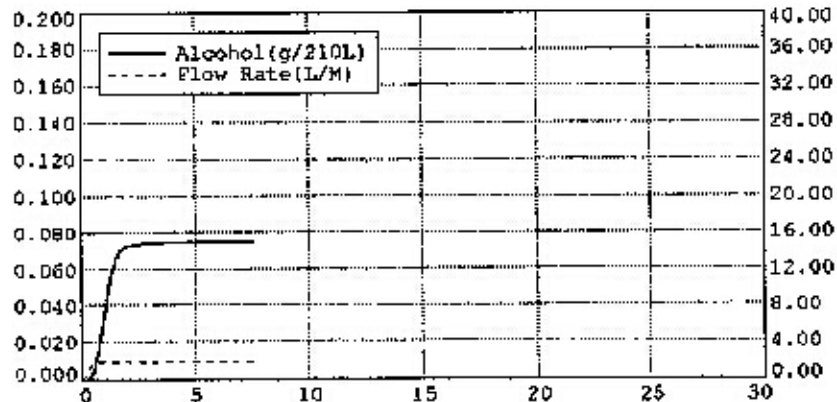
Date: 09/23/2013
 Time: 10:53:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.82: 0.077
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	10:54
INTERNAL STANDARD	VERIFIED	10:54
EXTERNAL STANDARD	0.075	10:55
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.077	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.076	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.076	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.076	10:59
BLANK TEST	0.000	11:00

Average = 0.0765
 Std Dev = 0.0006



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

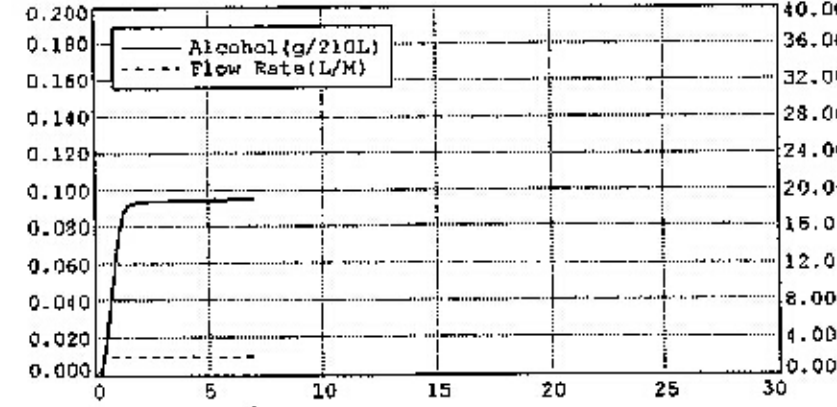
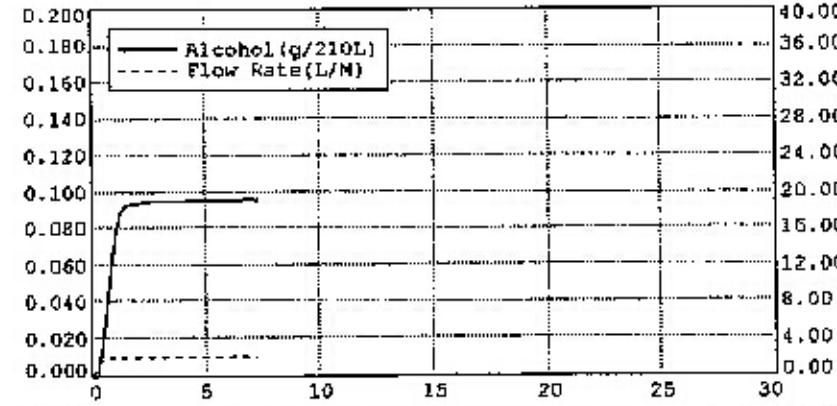
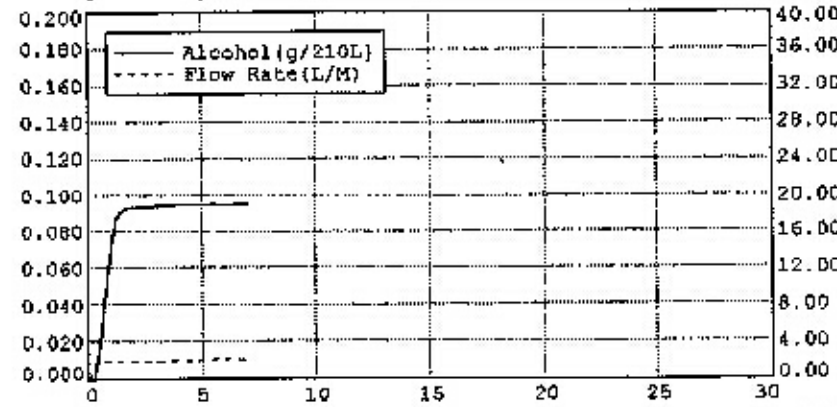
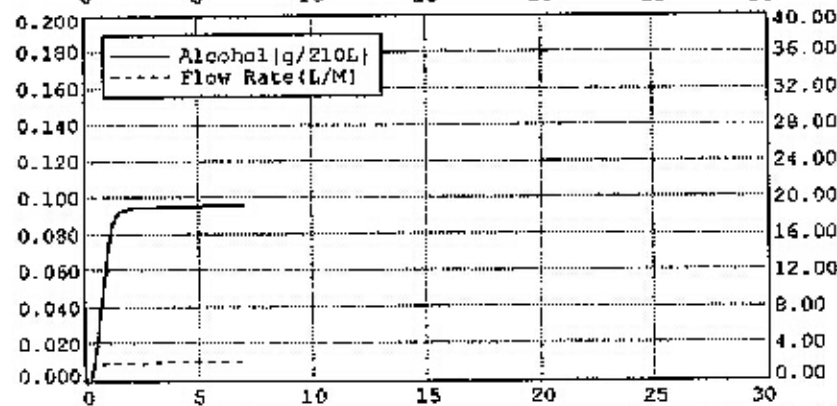
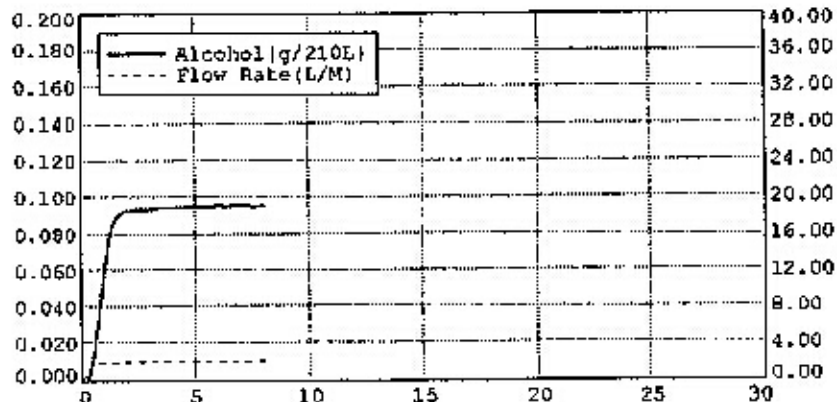
Date: 09/23/2013
 Time: 11:01:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 28.62: 0.096
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:02
EXTERNAL STANDARD	0.095	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.096	11:04
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.095	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.096	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.095	11:07
BLANK TEST	0.000	11:08

Average = 0.0959
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dnt: 100370

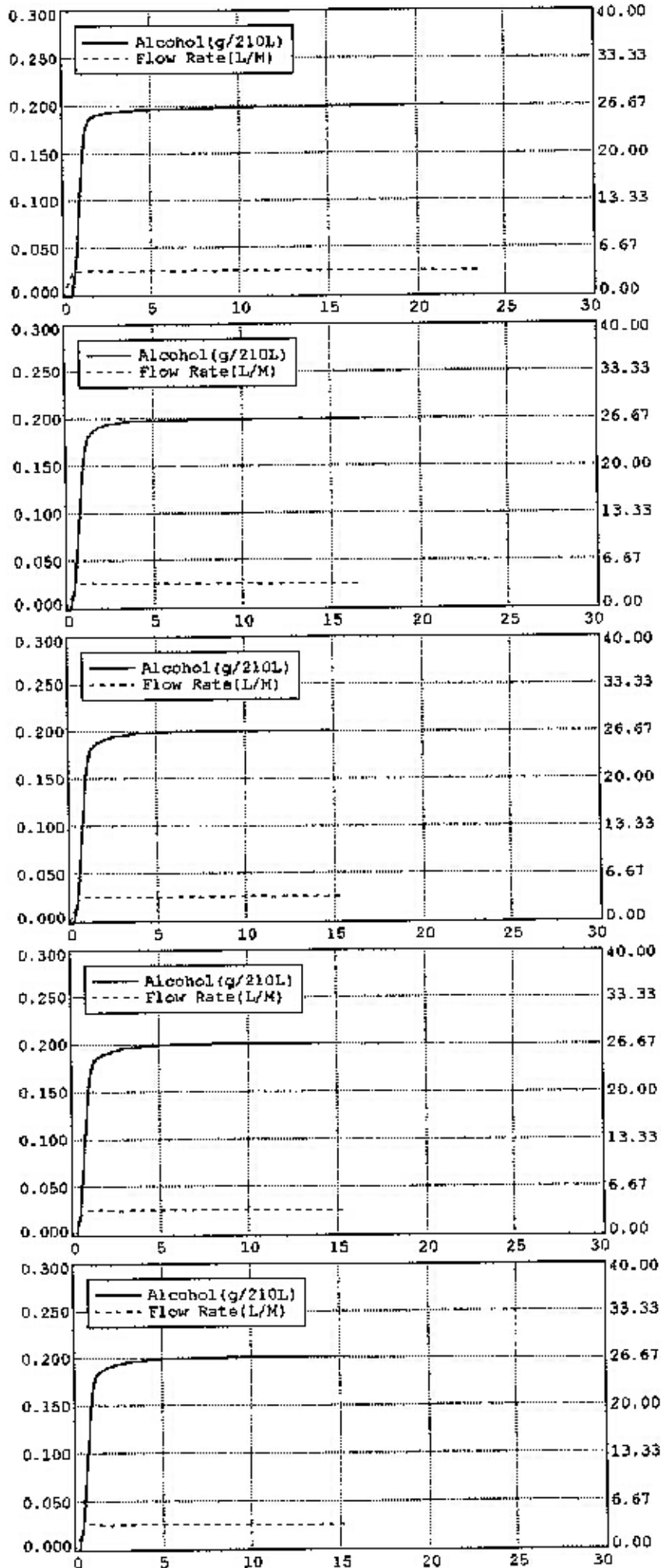
Date: 09/23/2013
 Time: 12:17:04

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:19
INTERNAL STANDARD	VERIFIED	12:19
EXTERNAL STANDARD	0.201	12:20
BLANK TEST	0.000	12:21
EXTERNAL STANDARD	0.201	12:21
BLANK TEST	0.000	12:22
EXTERNAL STANDARD	0.201	12:22
BLANK TEST	0.000	12:23
EXTERNAL STANDARD	0.201	12:24
BLANK TEST	0.000	12:25
EXTERNAL STANDARD	0.202	12:25
BLANK TEST	0.000	12:26

Average = 0.2016
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dnt: 100370

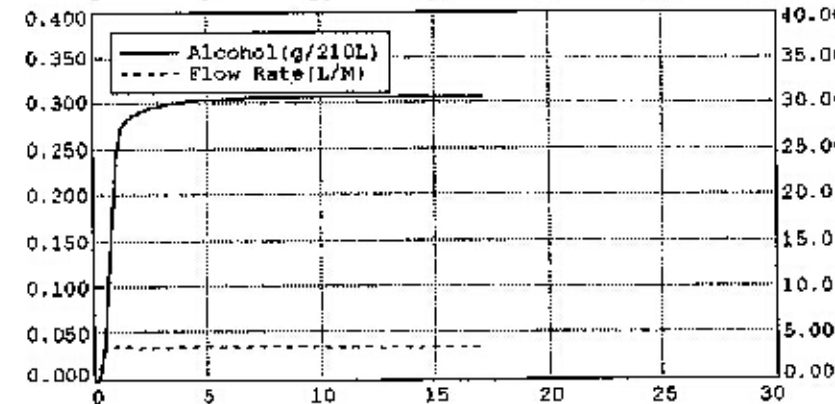
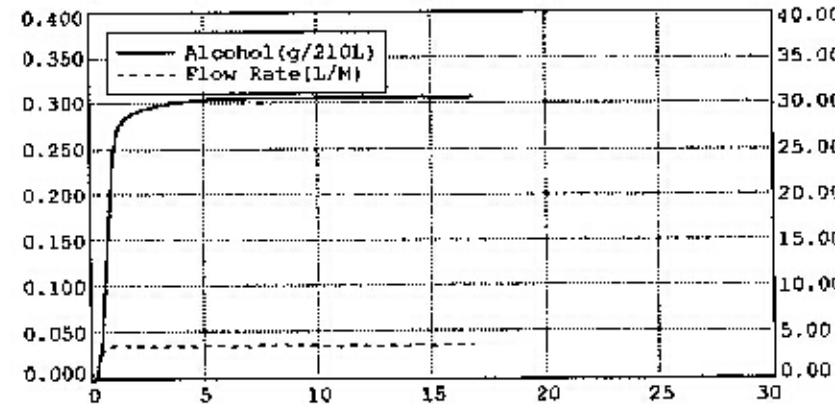
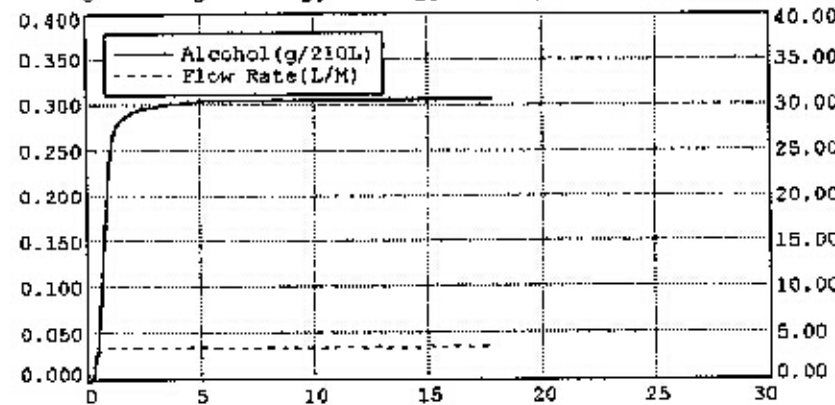
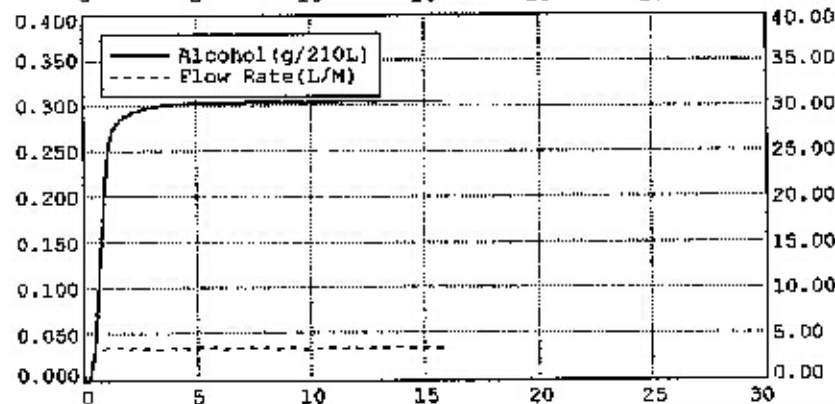
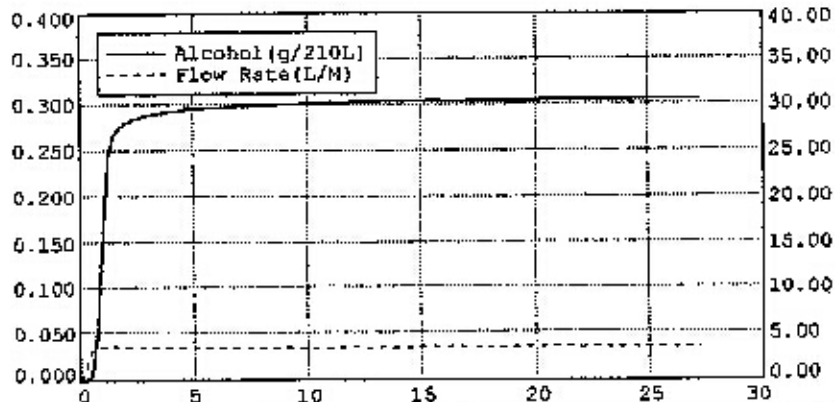
Date: 09/23/2013
 Time: 12:28:44

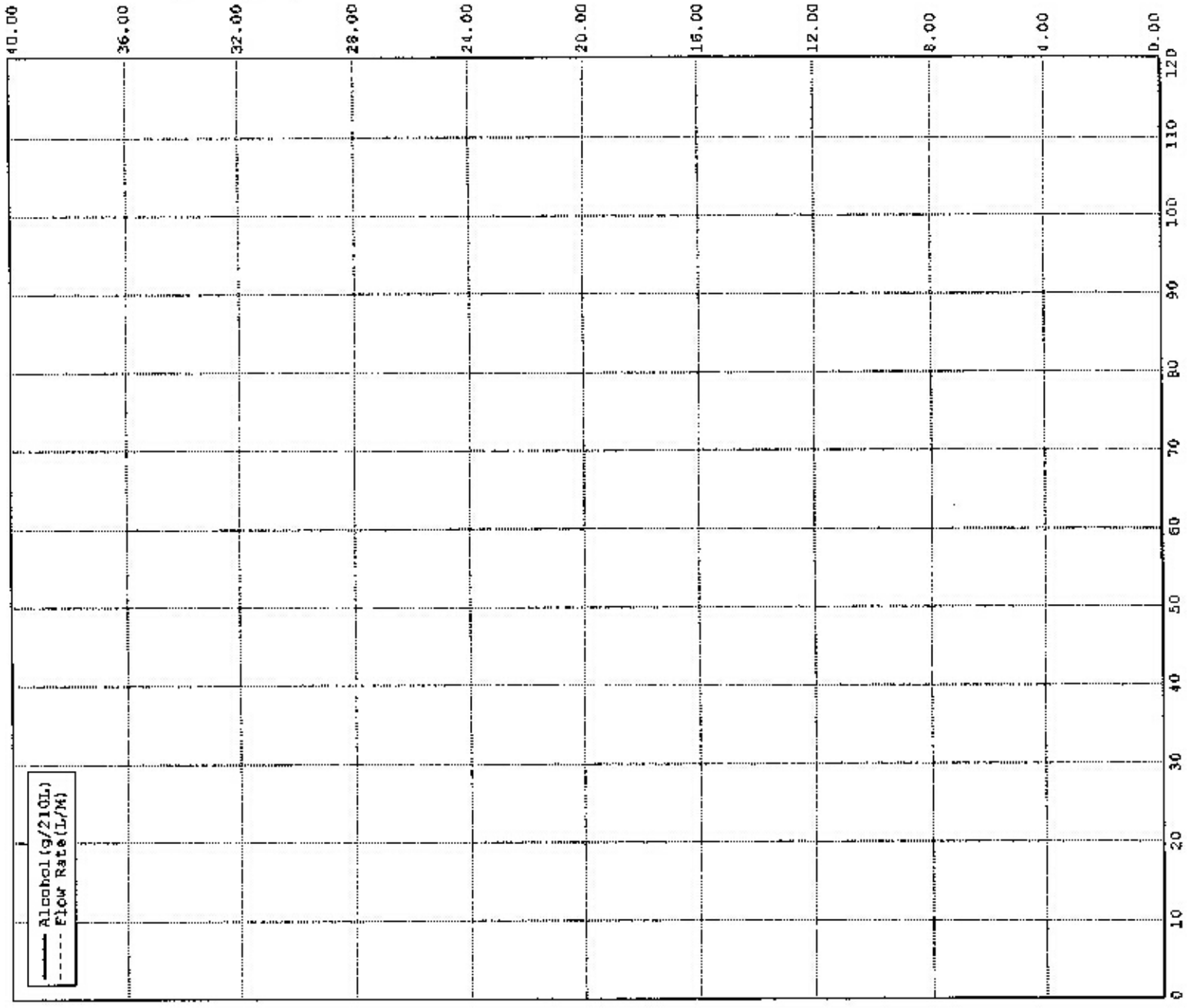
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:29
INTERNAL STANDARD	VERIFIED	12:29
EXTERNAL STANDARD	0.306	12:30
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.306	12:31
BLANK TEST	0.000	12:32
EXTERNAL STANDARD	0.307	12:33
BLANK TEST	0.000	12:34
EXTERNAL STANDARD	0.306	12:34
BLANK TEST	0.000	12:35
EXTERNAL STANDARD	0.307	12:35
BLANK TEST	0.000	12:35

Average = 0.3068
 Std Dev = 0.0006





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 09/23/2013
 Time: 12:40:44

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

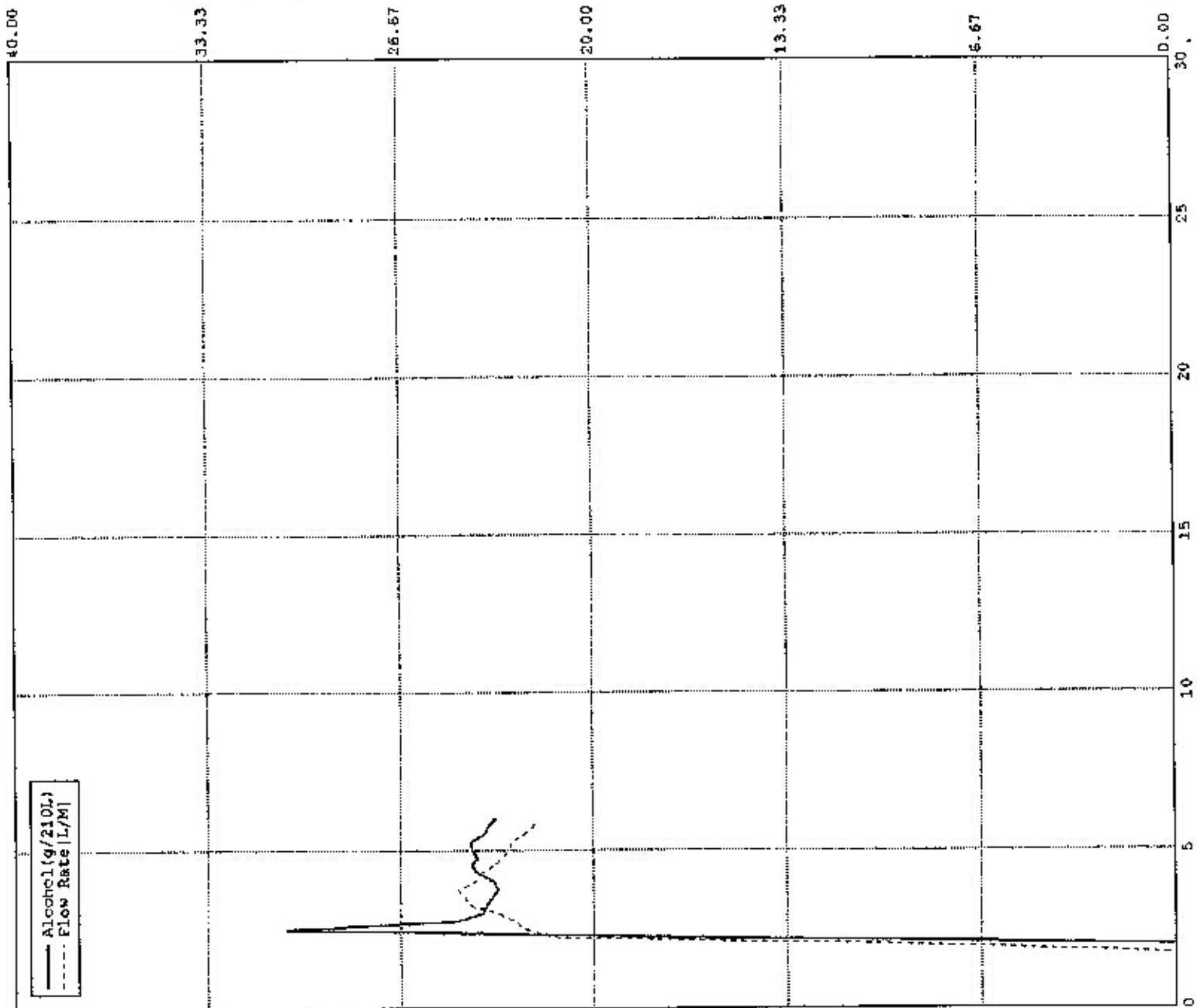
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.060
 TARGET AT 28.87: 0.077
 LOT #: 02012080AL
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 13:10
 BLANK TEST 0.000 13:10
 INTERNAL STANDARD VERIFIED 13:10
 EXTERNAL STANDARD 0.076 13:10
 BLANK TEST 0.000 13:11
 SUBJECT SAMPLE INCOMPLETE 13:13

COS



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100370

Date: 09/23/2013
 Time: 13:17:01

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

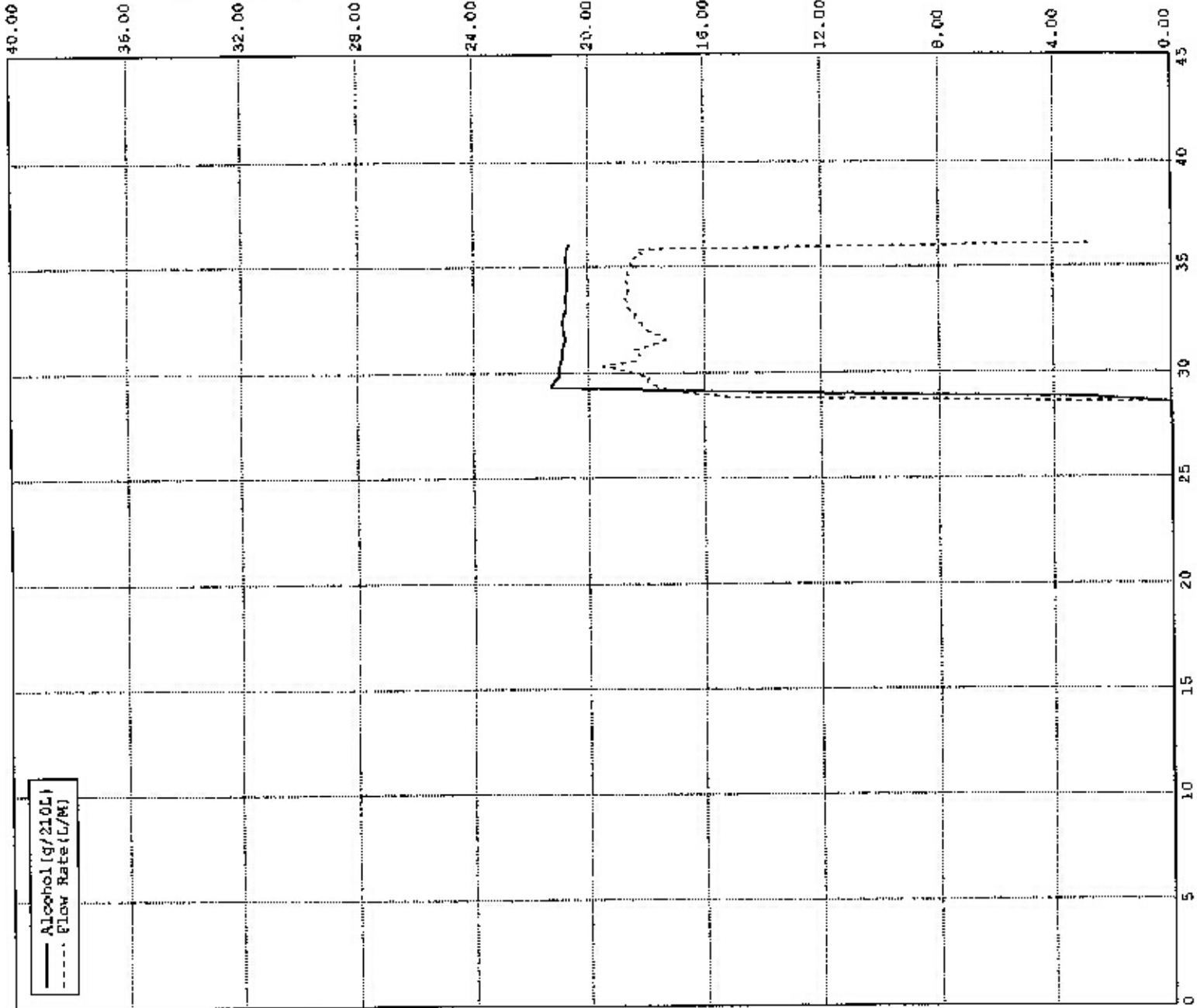
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 26.87: 0.077
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	13:18
BLANK TEST	0.000	13:18
INTERNAL STANDARD	VERIFIED	13:18
EXTERNAL STANDARD	0.076	13:19
BLANK TEST	0.000	13:19
SUBJECT SAMPLE	INVALID	13:20

CS



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100370

 Date: 09/23/2013
 Time: 13:24:28

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

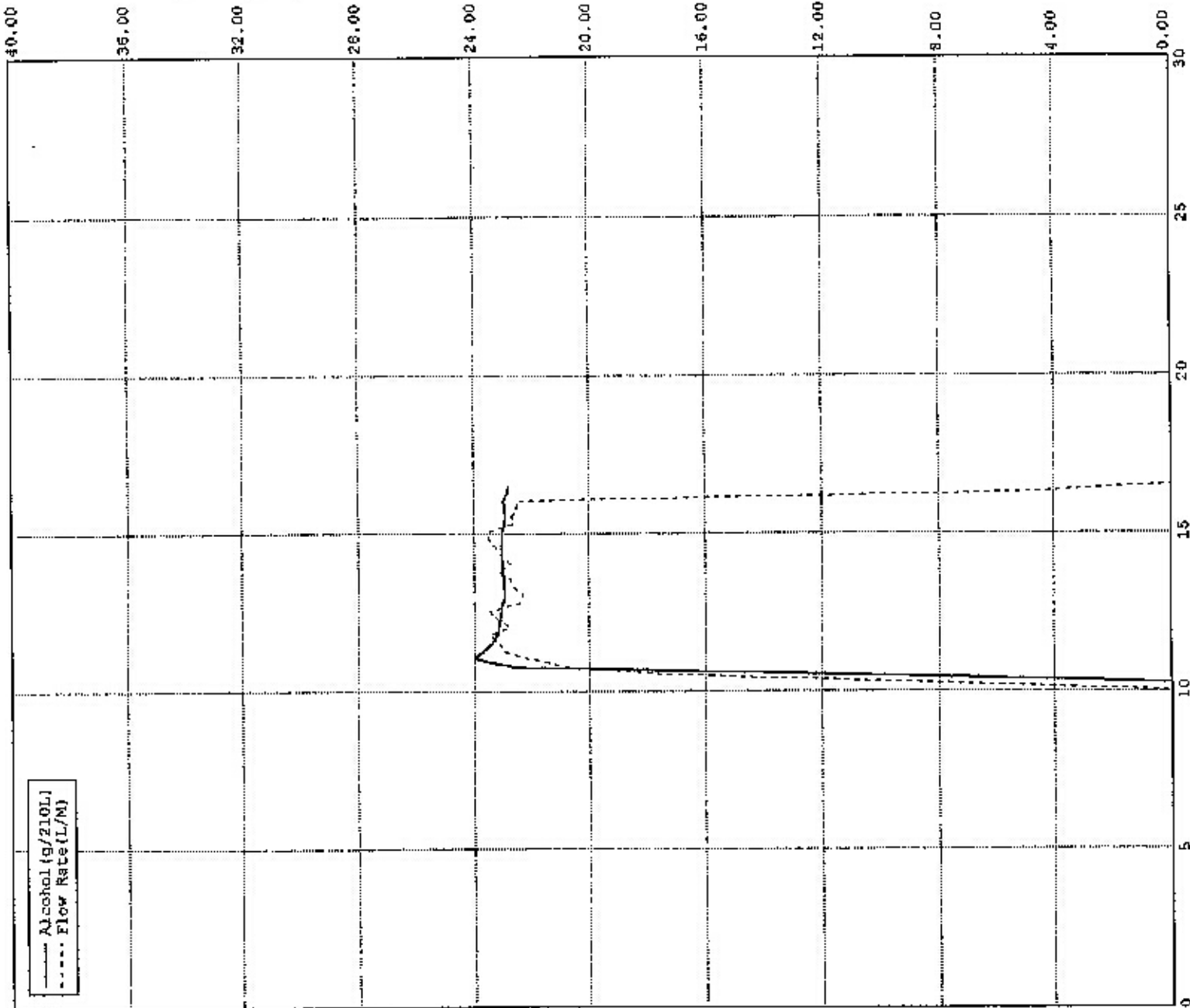
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.87: 0.077
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:25
BLANK TEST	0.000	13:25
INTERNAL STANDARD	VERIFIED	13:25
Xq = 0.089 (0.20%)		
EXTERNAL STANDARD	0.076	13:25
X[1] = 0.0765 (0.0018) (0.0035)		
BLANK TEST	0.000	13:26
SUBJECT SAMPLE	INTERFERENCE	13:27
X[1] = 0.1035 (-0.0210) (0.0010)		

COB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 09/23/2013
 Time: 13:30:46

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-10A

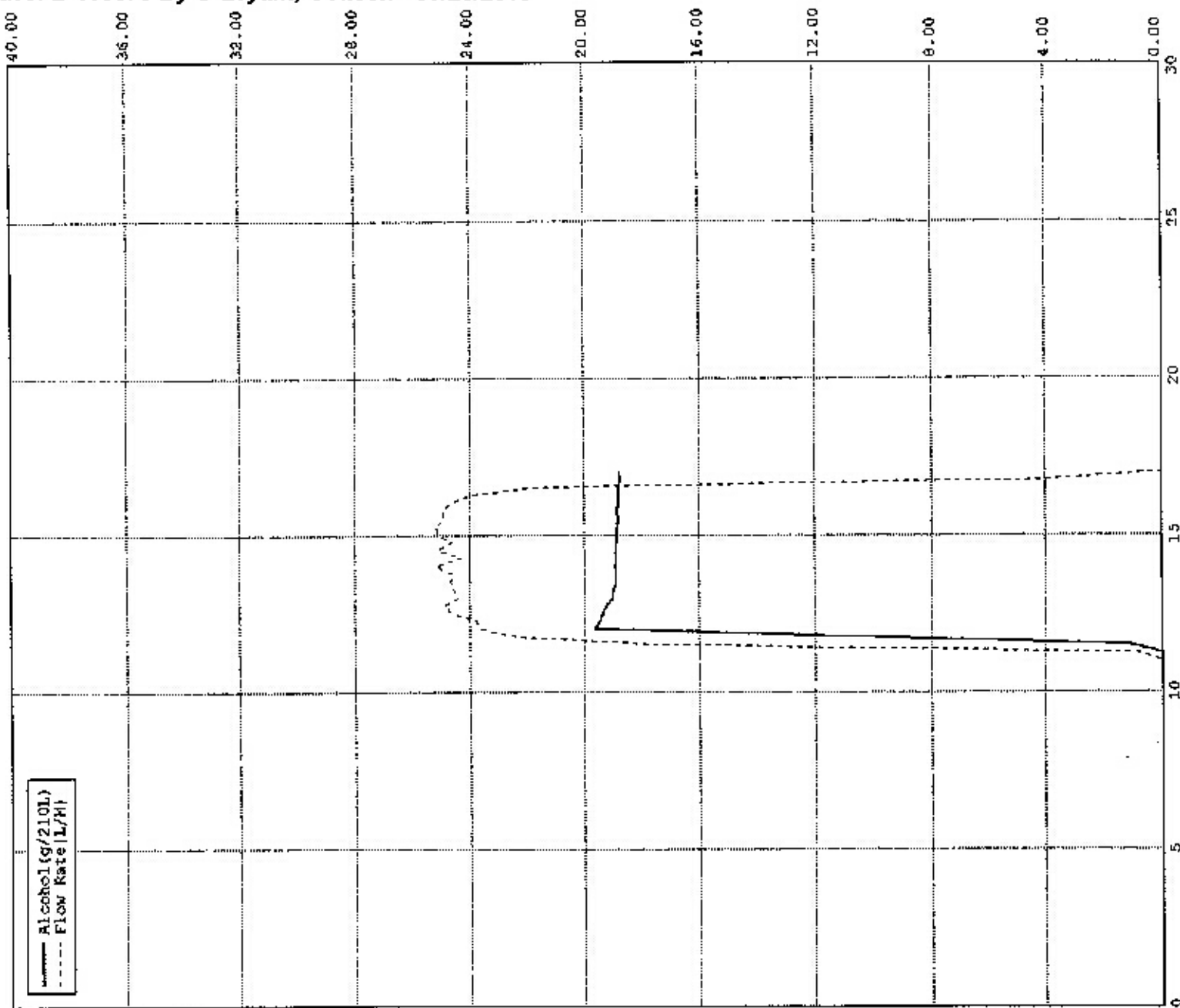
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.87: 0.077
 LOT #: 02012080AL
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:32
BLANK TEST	0.000	13:32
INTERNAL STANDARD	VERIFIED	13:32
XG = 0.089 (0.49%)		
EXTERNAL STANDARD	0.077	13:32
X[1] = 0.0770 (0.0016) (0.0029)		
BLANK TEST	0.000	13:33
SUBJECT SAMPLE	INTERFERENCE	13:33
X[1] = 0.1139 (-0.0221) (0.0026)		

COB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER CMT: 100370

Date: 09/23/2013
 Time: 13:36:58

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEGATIVE

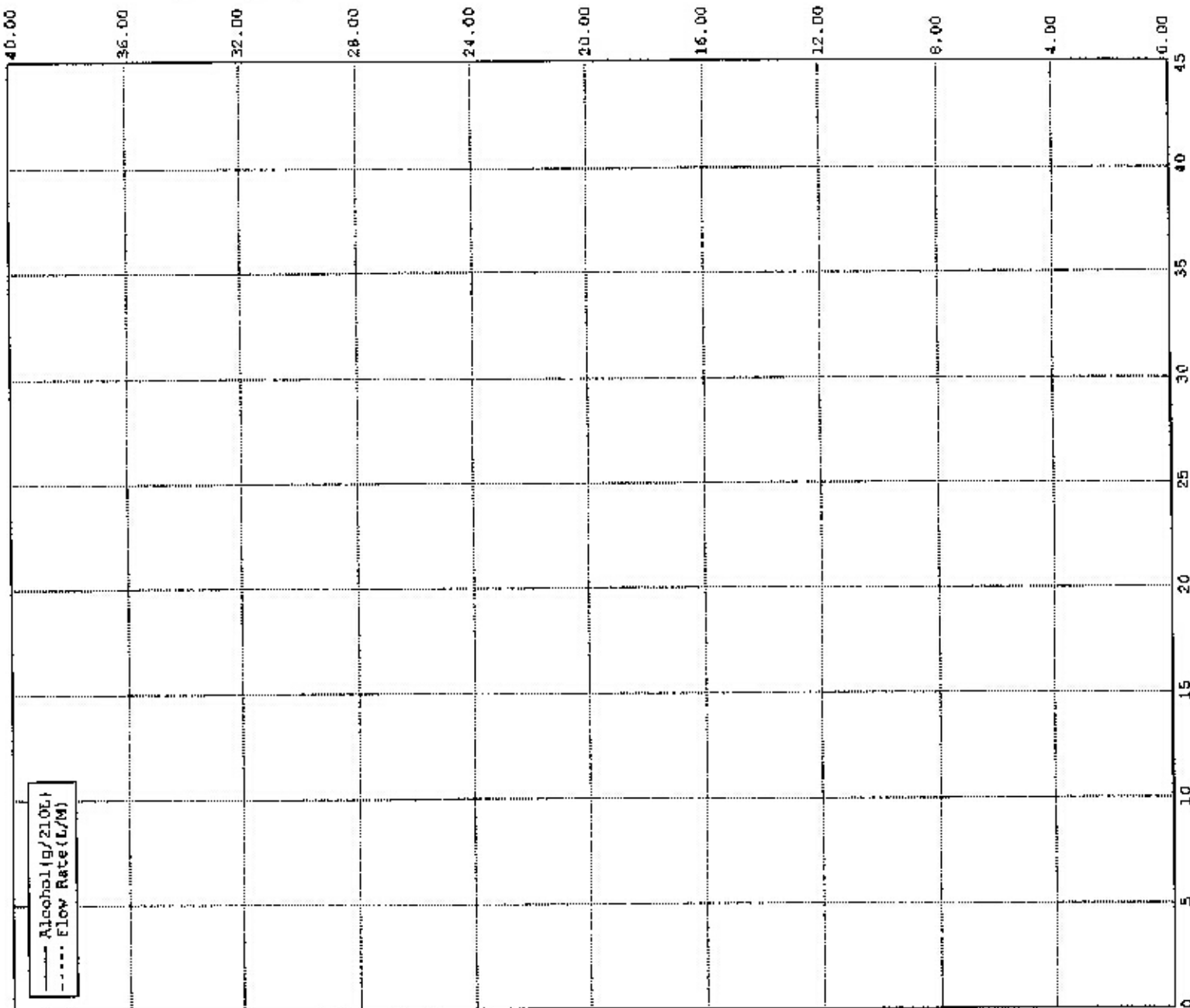
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAA
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.87: 0.077
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:39
BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:39
$X_g = 0.089$ (0.29%)	0.077	13:39
EXTERNAL STANDARD	0.000	13:40
$X[1] = 0.0772$ (0.0018) (0.0031)	0.093	13:41
BLANK TEST	0.000	13:41
SUBJECT SAMPLE (Vol=2.12L)	0.0015	
$X[1] = 0.0938$ (-0.0001) (0.0015)	0.000	13:42
BLANK TEST	0.075	13:42
EXTERNAL STANDARD	0.0024	
$X[1] = 0.0757$ (0.0016) (0.0024)	0.000	13:43
BLANK TEST		

COB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 09/23/2013
 Time: 13:46:25

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

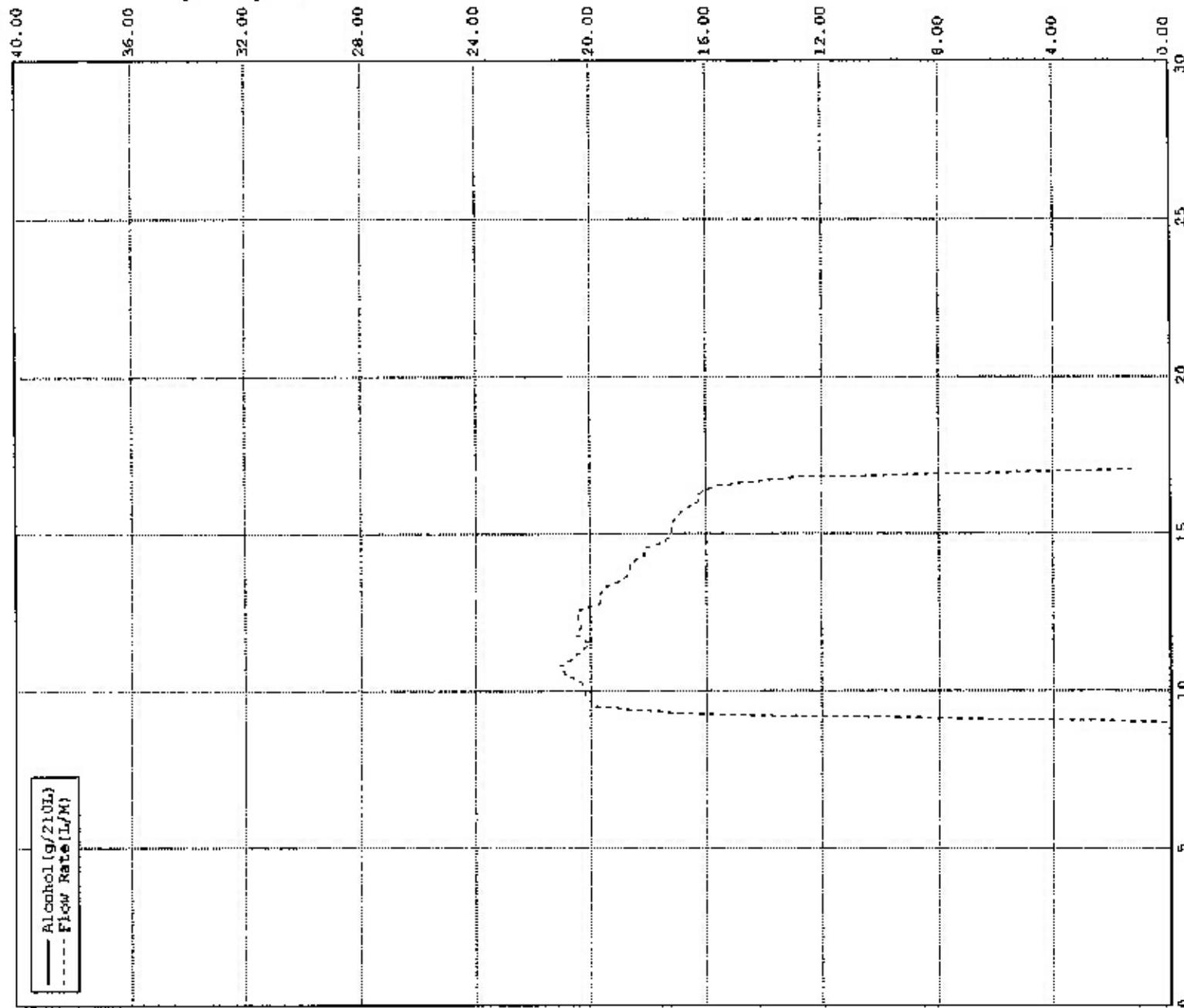
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.88: 0.077
 LOT #: 02012080AL
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 14:04
 BLANK TEST 0.000 14:04
 INTERNAL STANDARD VERIFIED 14:04
 EXTERNAL STANDARD 0.077 14:04
 BLANK TEST 0.000 14:05

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 09/23/2013
 Time: 14:17:19

SUBJECT NAME:
 TEST TEST
 LICENSE #: NONDRINKING

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 28.88: 0.077
 LCF #: 02012080X1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:18
BLANK TEST	0.000	14:18
INTERNAL STANDARD	VERIFIED	14:18
EXTERNAL STANDARD	0.076	14:18
BLANK TEST	0.000	14:19
SUBJECT SAMPLE	0.000	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.076	14:21
BLANK TEST	0.000	14:22

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Final page for report

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3/7/2014