

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100666 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 1.600 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 02012080A1 Exp 3/1/14

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

v. 0.200g/210L Mnf Guth Lot 13120 Exp 8/10/14

1. Simulator S/N 501198 Date Calibrated 1/23/13

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

1. Simulator S/N 501088 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 DR4161 Date Calibrated 1/24/13

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

1. Simulator S/N 501177 Date Calibrated 1/23/13

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

1. Simulator S/N 501199 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 12/3/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 11/26/2013
Time: 10:08:33

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 45.1°C PASSED

PUMP INFO

Flow Rate = 4.830 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: 100666

Date: 11/26/2013

Time: 10:32 AM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 44.8°C

Current Barometer 29.6 in

Volume (Ltr) 1.57

Settings

Lamp: 1.62 V

Bias: 80 V

Cooler: 1.58 V

Chopper: 537 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.020 V

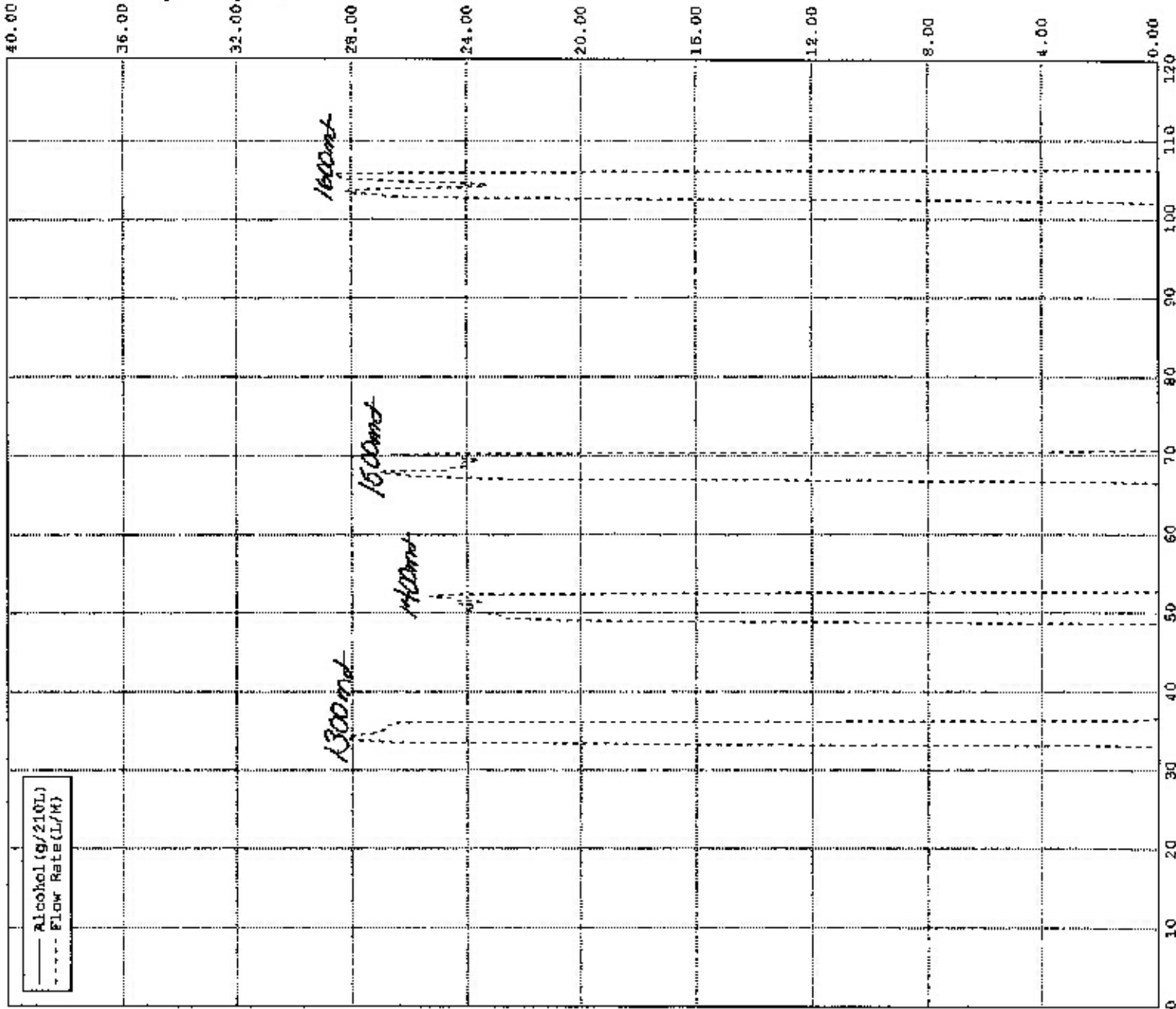
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100666

Date: 05/16/2013
Time: 07:28:58

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.970788 0.600 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xg = 0.0857 0.0500 <= Xg < 0.2000
a21 = 1.140341 1.050 <= a21 < 1.300
a31 = 0.528494 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100666

Date: 11/26/2013
 Time: 10:35:45

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

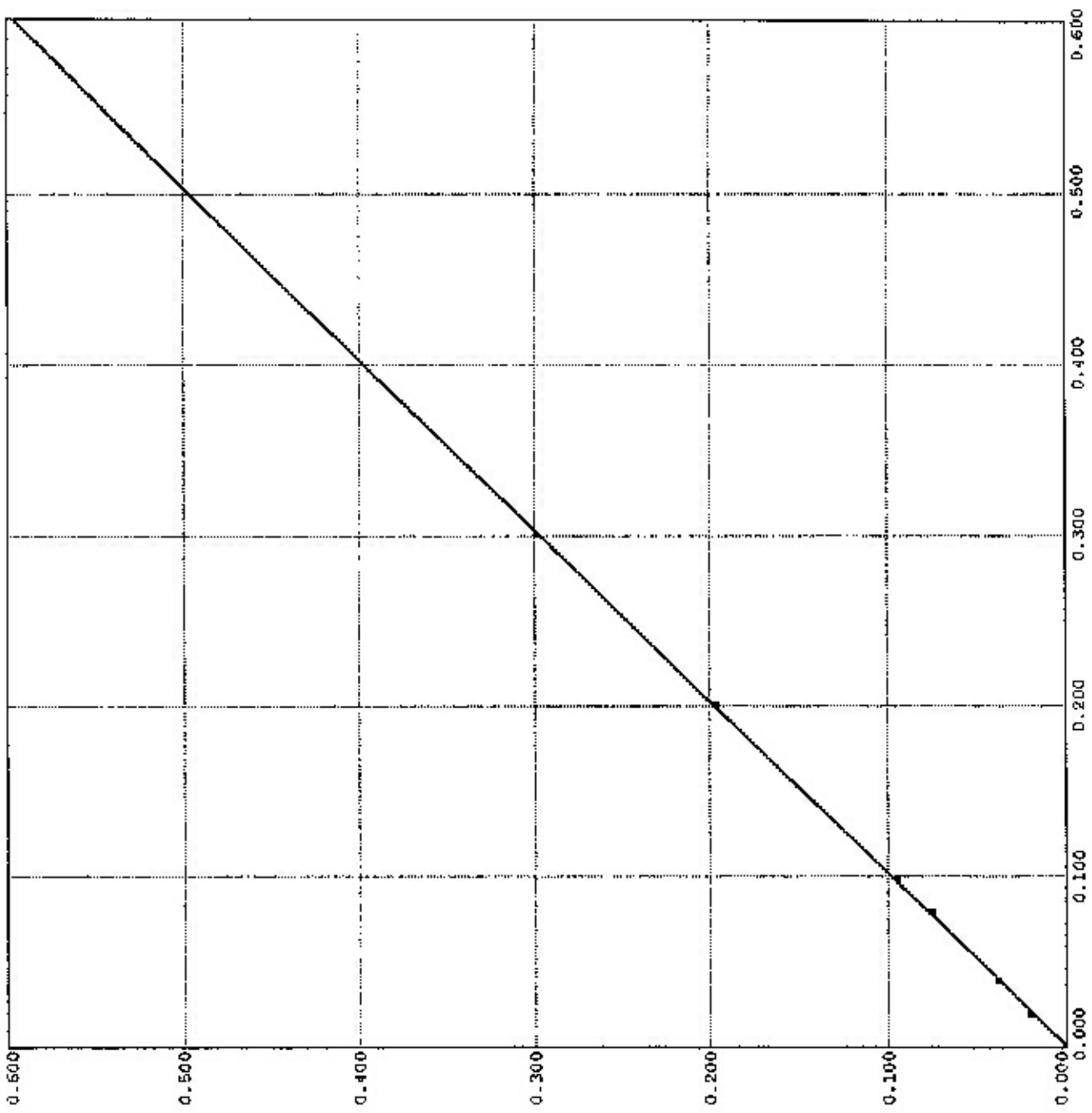
DEPT/AGENCY:
 AAAI

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.52: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	10:35
BLANK TEST	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:37
EXTERNAL STANDARD	0.076	10:37
BLANK TEST	0.000	10:38
SUBJECT SAMPLE	0.000	10:40
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.076	10:41
BLANK TEST	0.000	10:42

CB



LINEARITY CHECK

Alaska Department of Public Safety
 DATEMASTER dnt: 100666

Date: 11/26/2013
 Time: 14:43:12

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0206	0.0002
0.039	0.0393	0.0001
0.079	0.0762	0.0001
0.099	0.0955	0.0002
0.200	0.1977	0.0003
0.300	0.3000	0.0004

SLOPE = 0.997186
 R² = 0.999650

CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100666

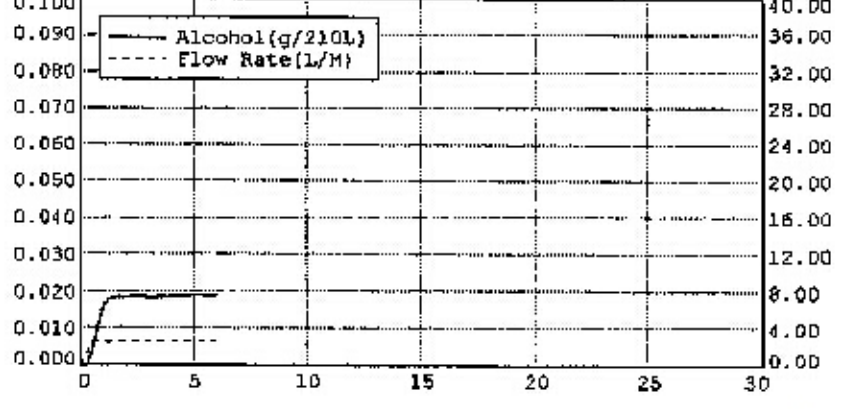
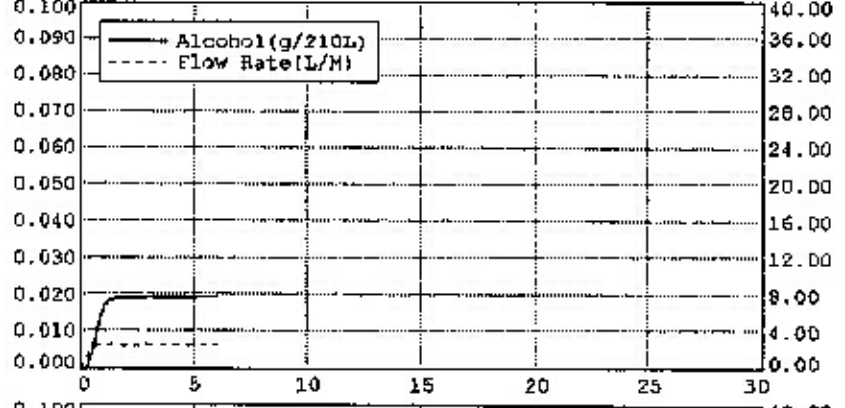
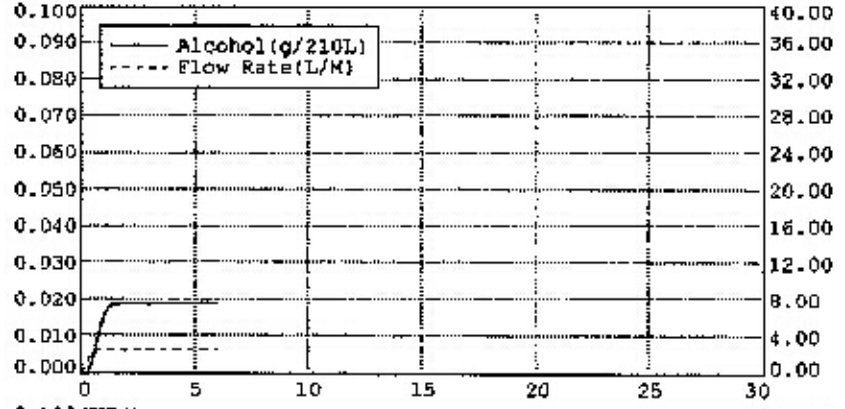
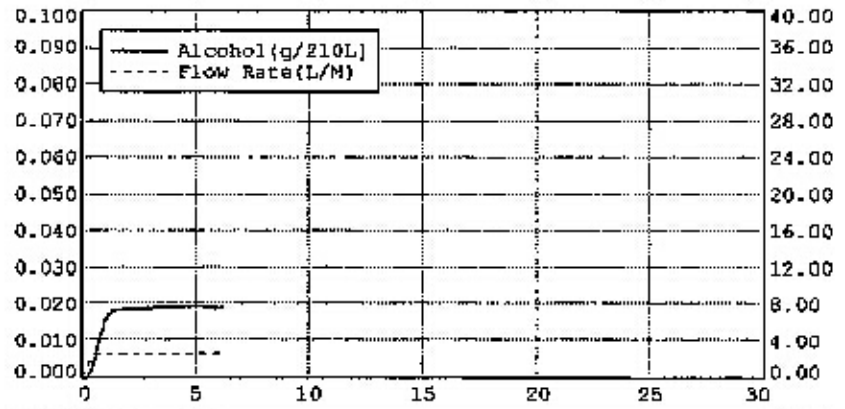
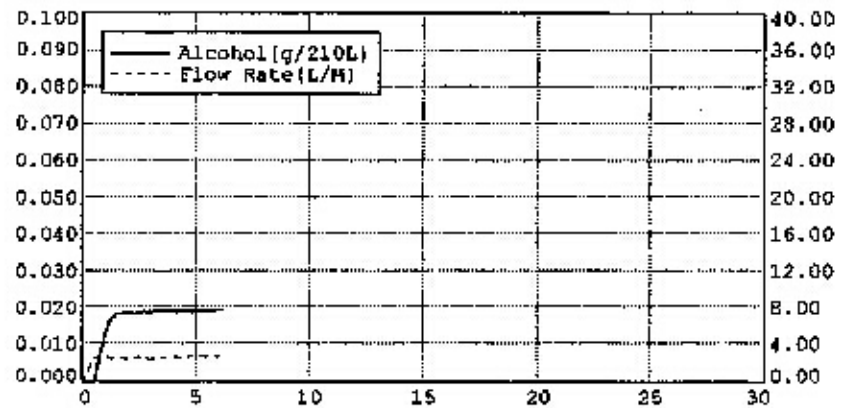
Date: 11/26/2013
 Time: 14:43:15

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:44
INTERNAL STANDARD	VERIFIED	14:44
EXTERNAL STANDARD	0.020	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.020	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.020	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.020	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.020	14:48
BLANK TEST	0.000	14:49

Average = 0.0206
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

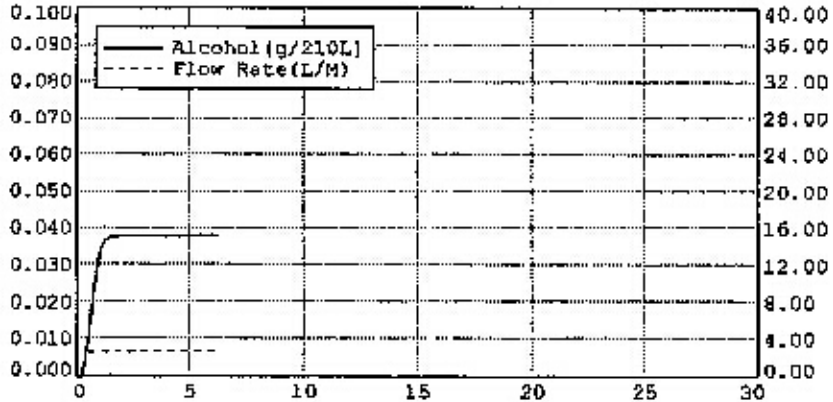
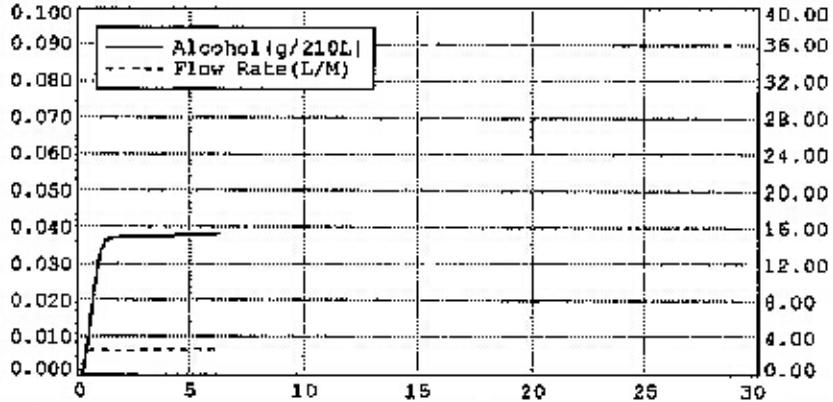
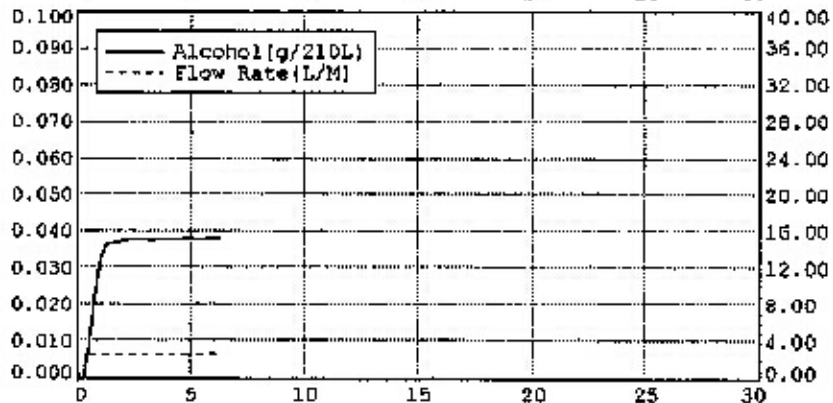
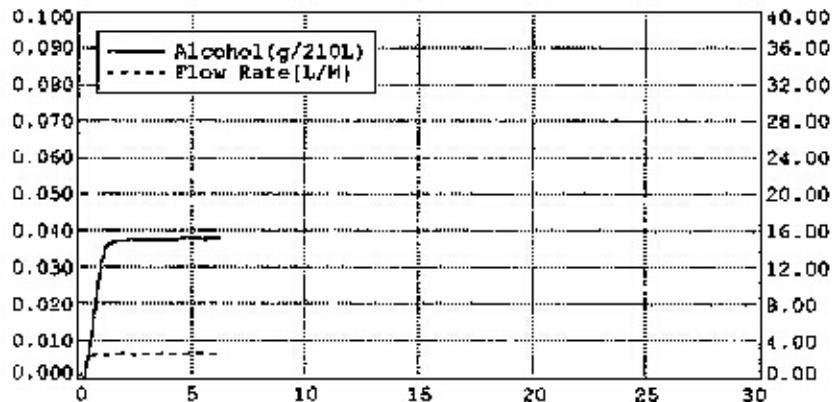
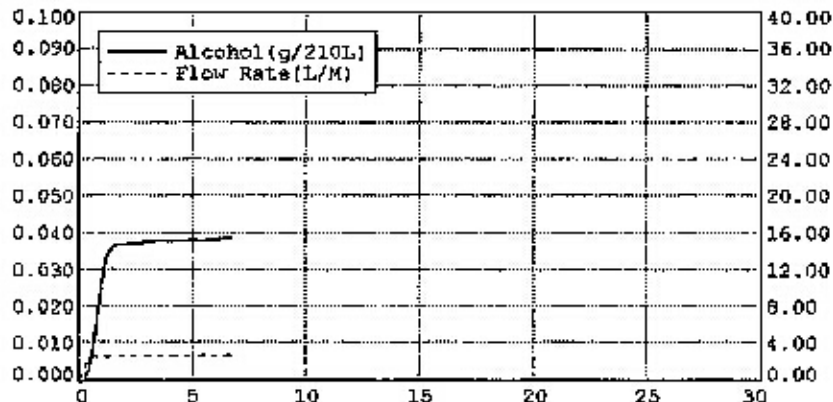
Date: 11/26/2013
 Time: 14:51:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.63: 0.039
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:52
EXTERNAL STANDARD	0.039	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.039	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.039	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.039	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.039	14:57
BLANK TEST	0.000	14:58

Average = 0.0393
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

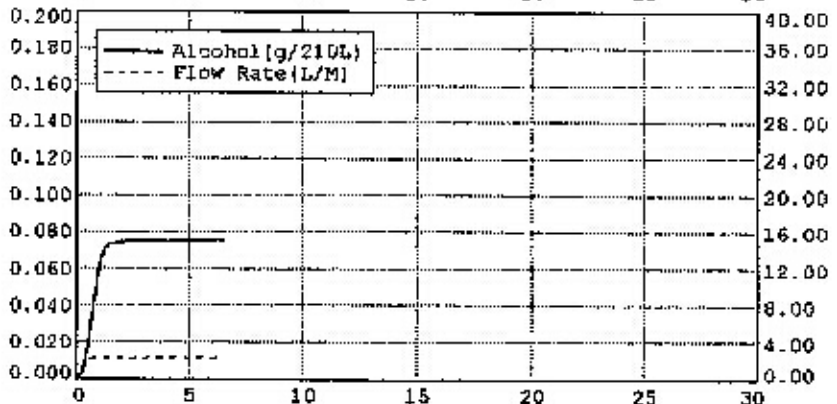
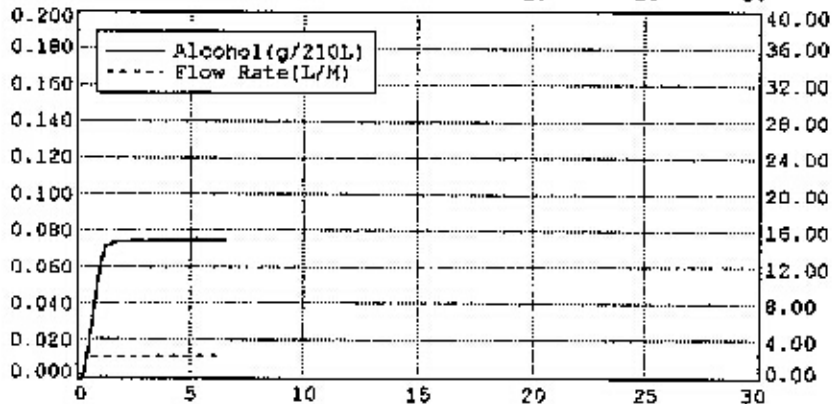
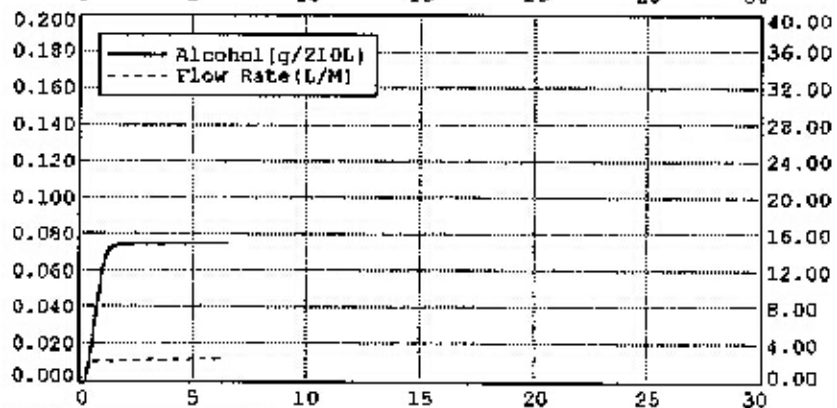
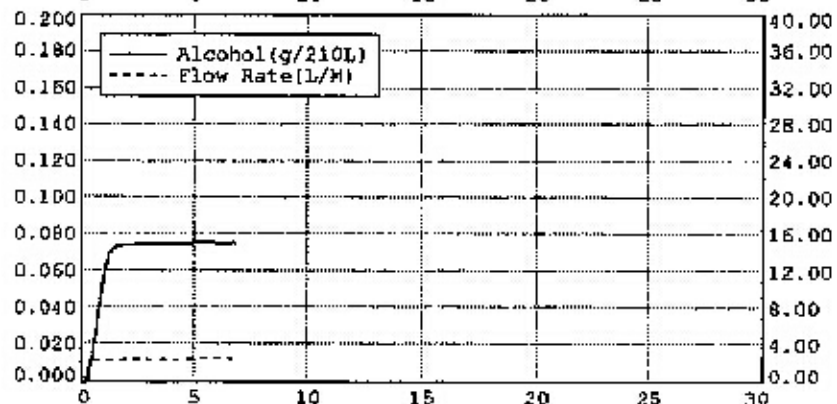
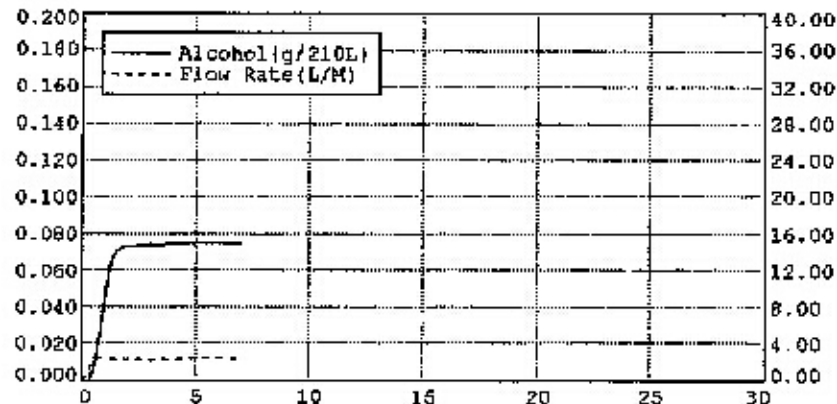
Date: 11/26/2013
 Time: 15:00:23

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:01
INTERNAL STANDARD	VERIFIED	15:01
EXTERNAL STANDARD	0.076	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.076	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.076	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.076	15:05
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.076	15:06
BLANK TEST	0.000	15:07

Average = 0.0762
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dnt: 100666

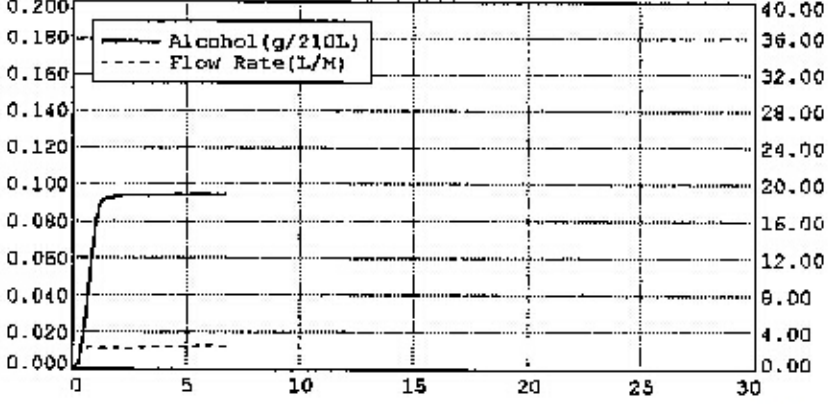
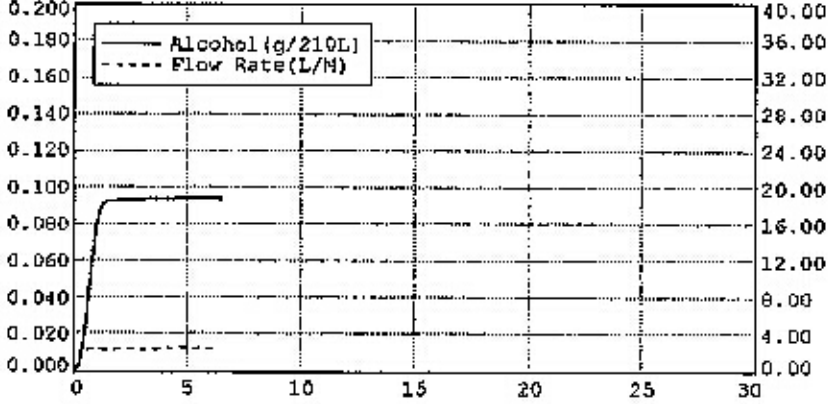
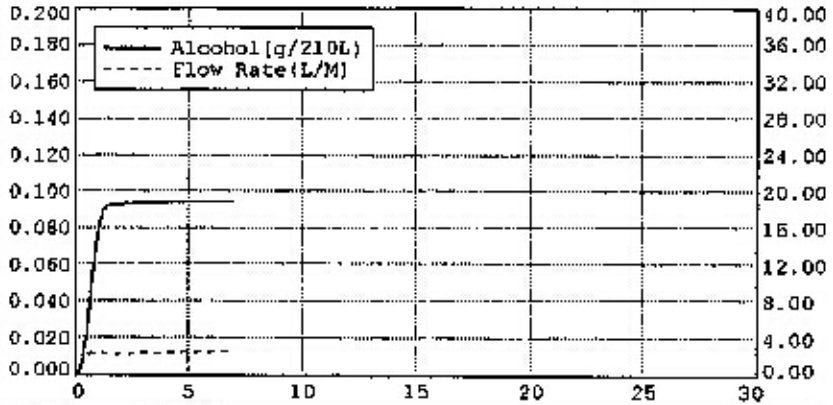
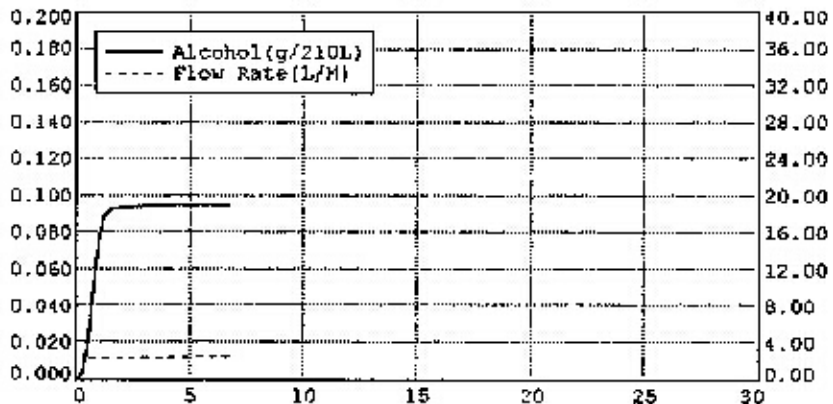
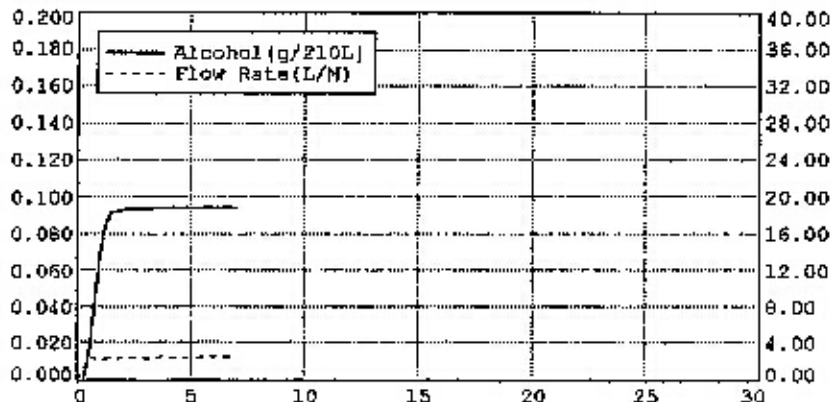
Date: 11/26/2013
 Time: 15:08:35

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:09
INTERNAL STANDARD	VERIFIED	15:09
EXTERNAL STANDARD	0.095	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.095	15:11
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.095	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.095	15:13
BLANK TEST	0.000	15:14
EXTERNAL STANDARD	0.095	15:14
BLANK TEST	0.000	15:15

Average = 0.0955
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

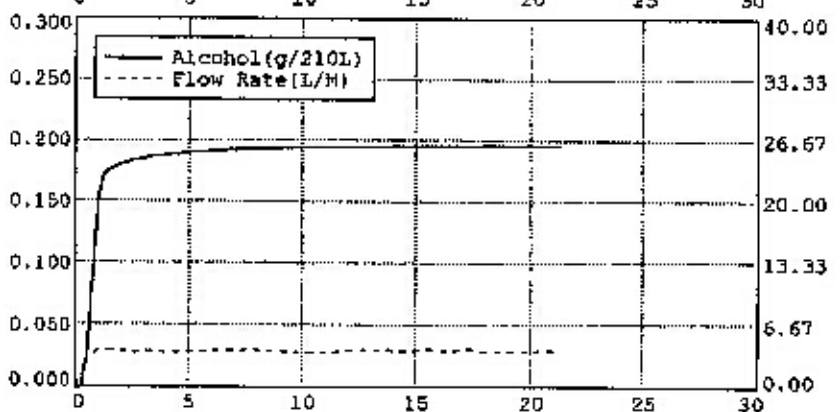
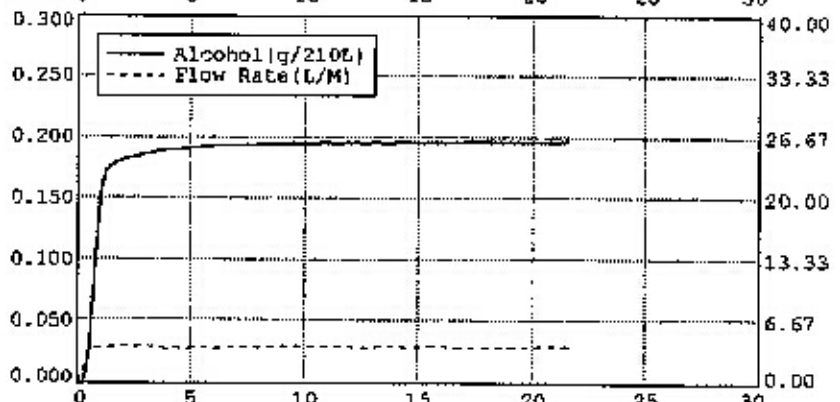
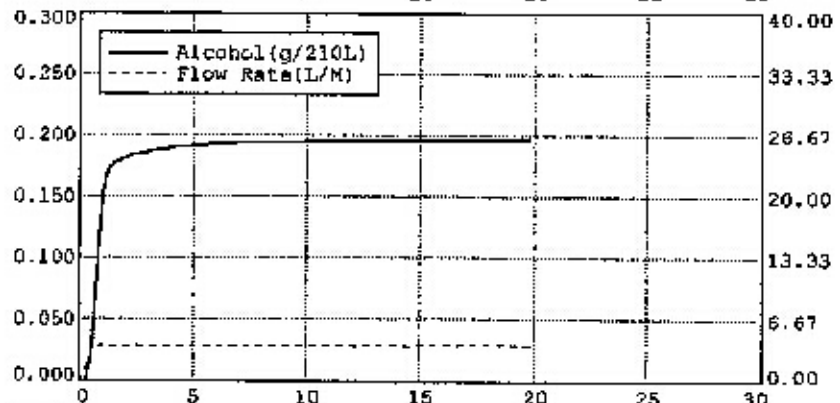
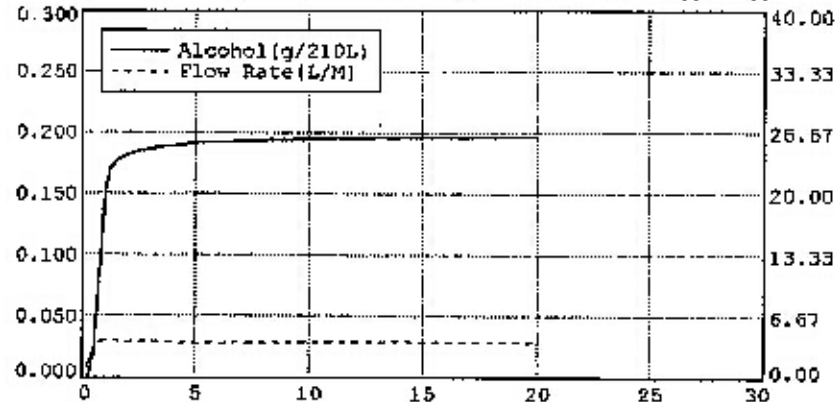
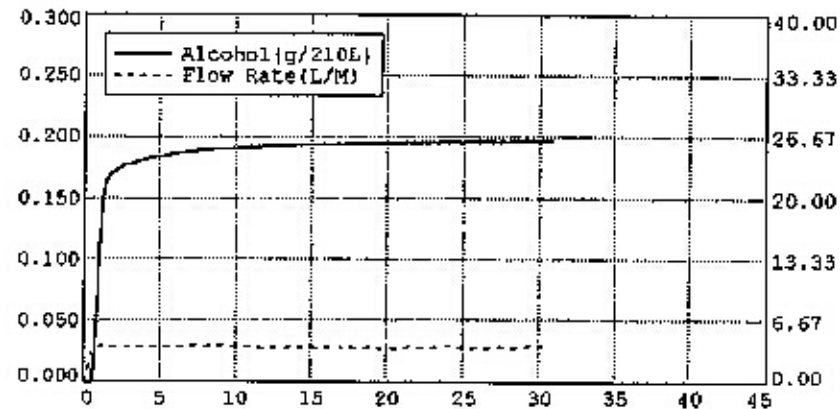
Date: 11/26/2013
 Time: 15:16:46

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:17
INTERNAL STANDARD	VERIFIED	15:17
EXTERNAL STANDARD	0.198	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.197	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.197	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.198	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.197	15:24
BLANK TEST	0.000	15:24

Average = 0.1977
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

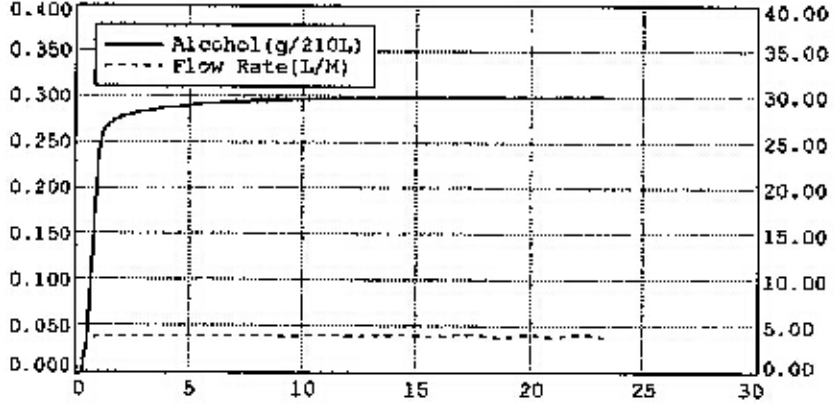
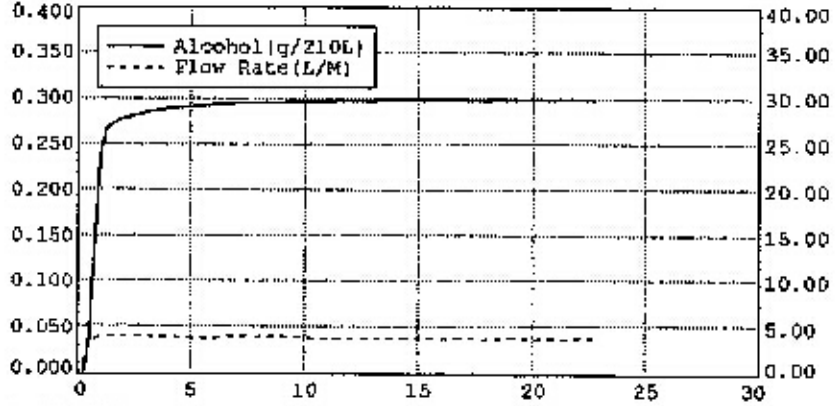
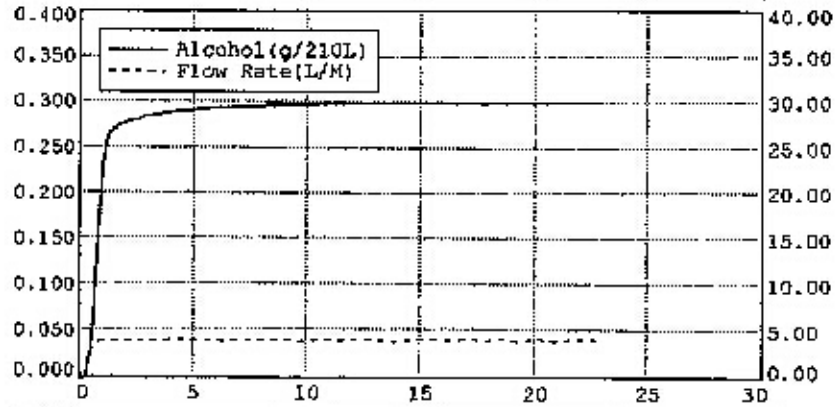
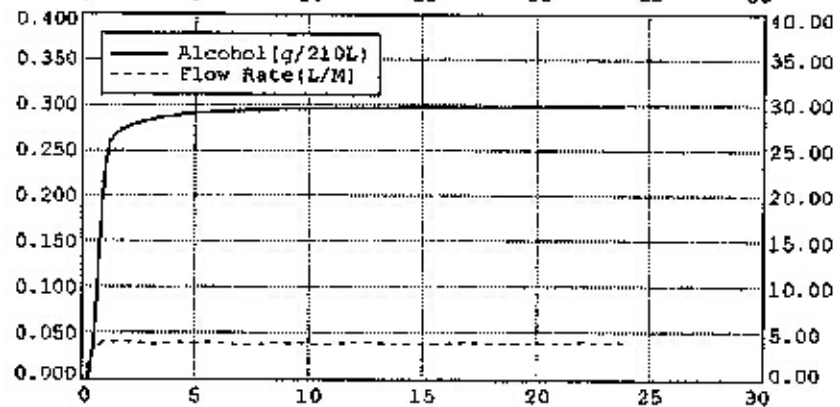
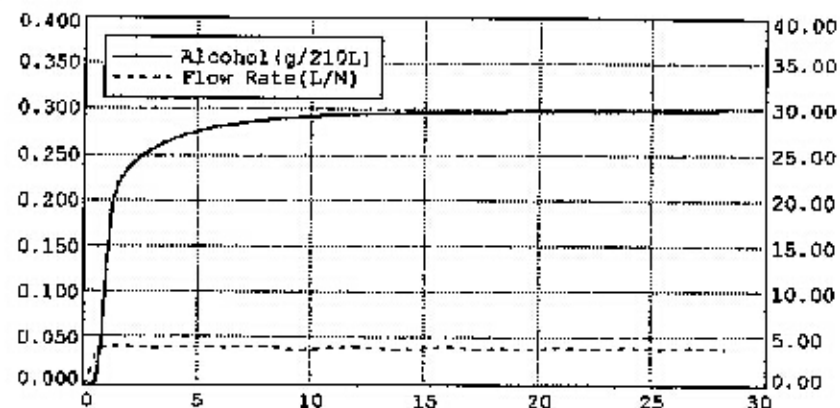
Date: 11/26/2013
 Time: 15:26:06

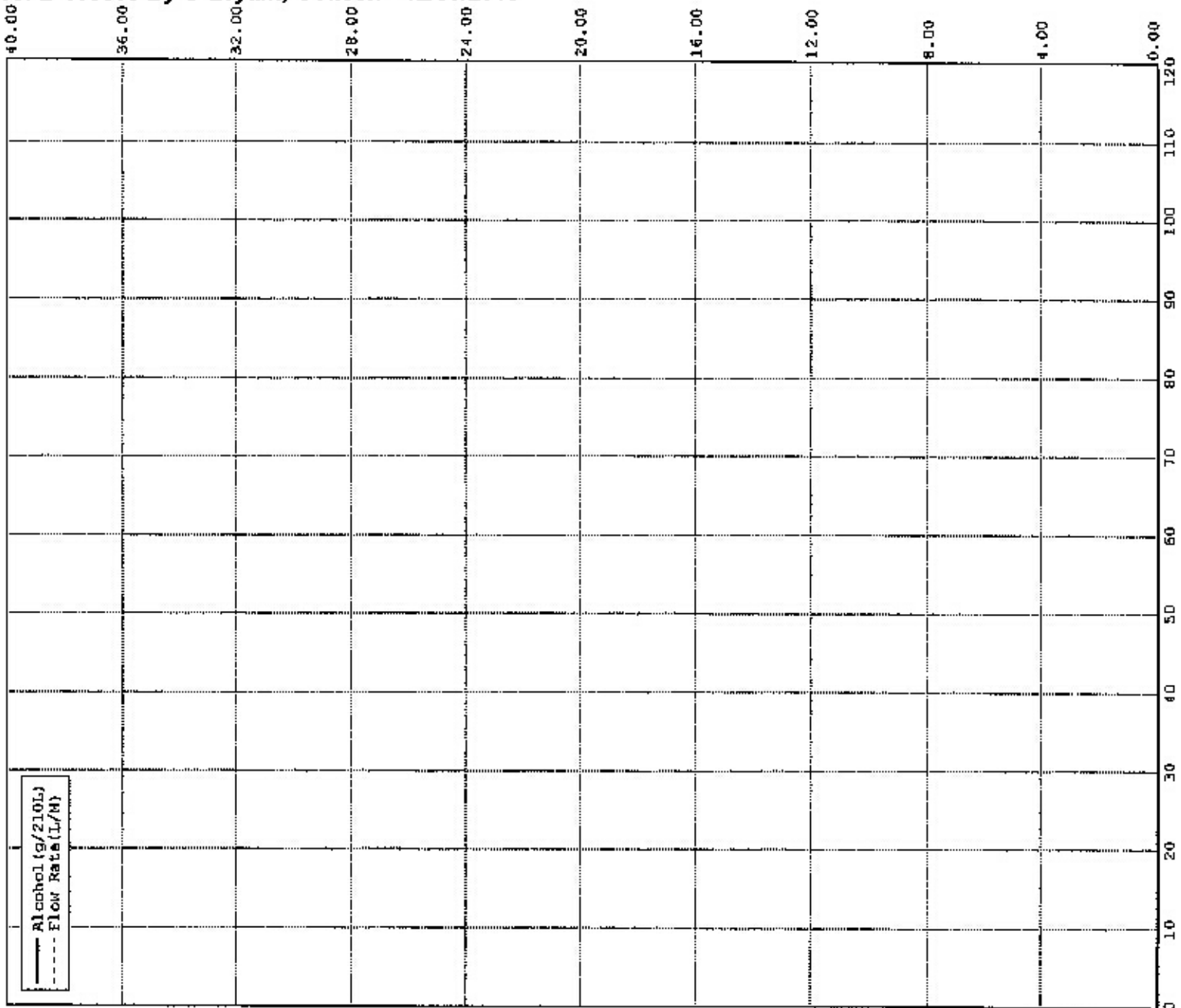
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 13090
 EXPIRATION: 03/19/2015

BLANK TEST	0.000	15:27
INTERNAL STANDARD	VERIFIED	15:27
EXTERNAL STANDARD	0.300	15:28
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.299	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.299	15:30
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.300	15:32
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.300	15:33
BLANK TEST	0.000	15:34

Average = 0.3000
 Std Dev = 0.0004





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100666

 Date: 12/02/2013
 Time: 14:07:22

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

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

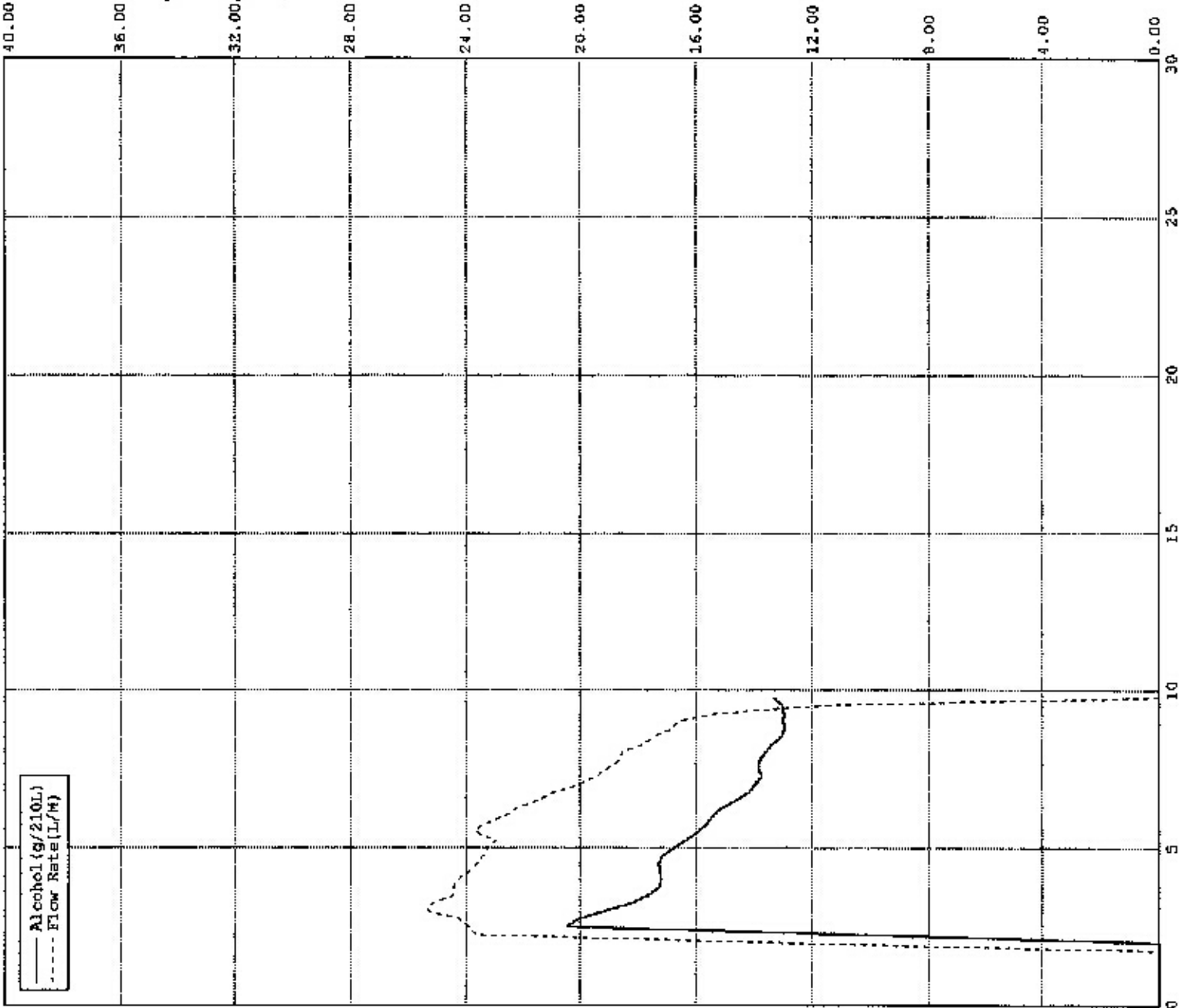
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.44: 0.061
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 14:10
 BLANK TEST 0.000 14:10
 INTERNAL STANDARD VERIFIED 14:10
 EXTERNAL STANDARD 0.078 14:10
 BLANK TEST 0.000 14:11
 SUBJECT SAMPLE INCOMPLETE 14:13

CB



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER cmt: 100666

 Date: 12/02/2013
 Time: 14:20:50

SUBJECT NMMS:
TEST TEST
LICENSE #: INVALID

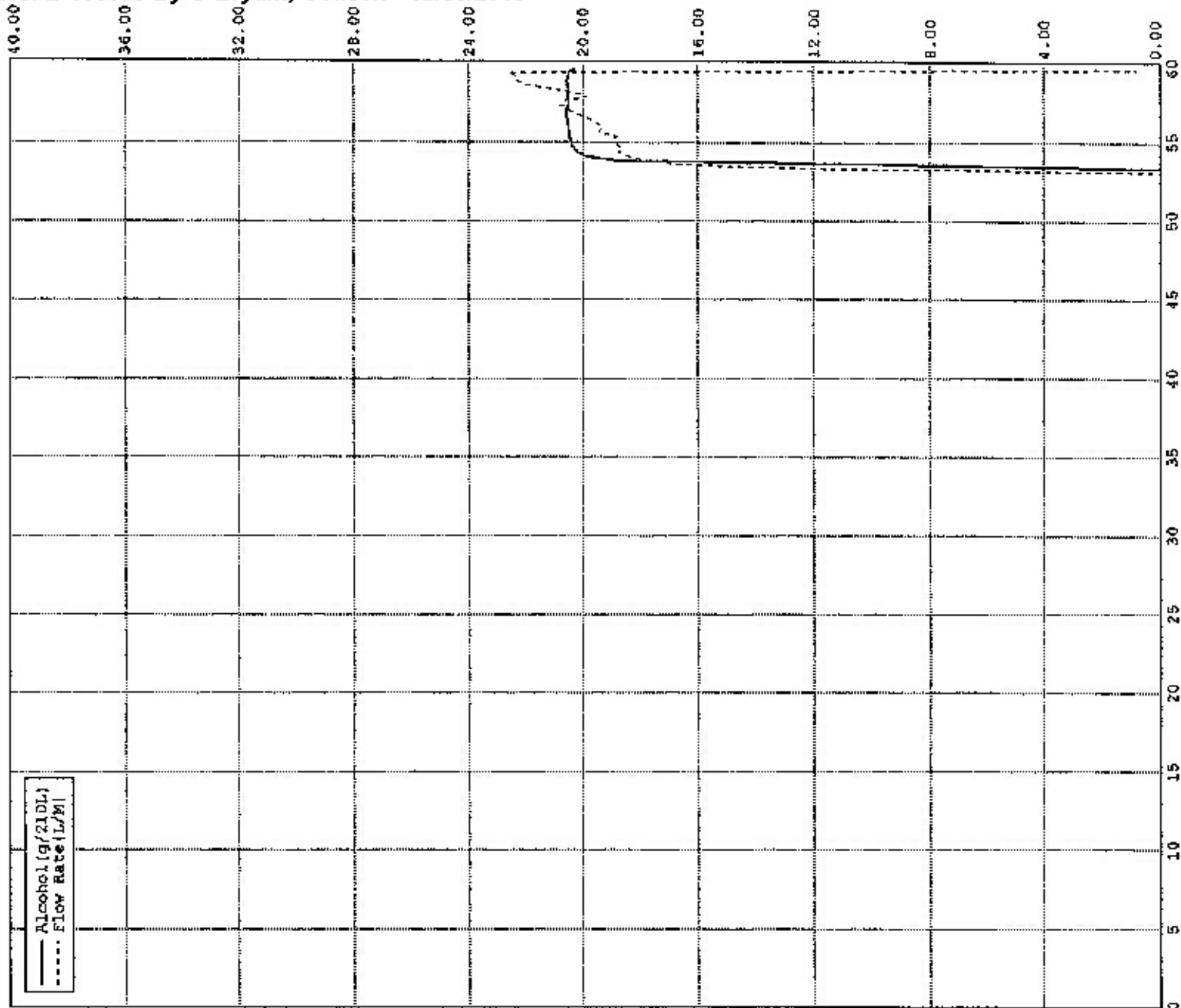
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 ANA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.44: 0.081
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:22
BLANK TEST	0.000	14:22
INTERNAL STANDARD	VERIFIED	14:23
EXTERNAL STANDARD	0.078	14:23
BLANK TEST	0.000	14:24
SUBJECT SAMPLE	INVALID	14:24



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100666

 Date: 12/02/2013
 Time: 14:34:08

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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 30.43: 0.081
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 14:35
BLANK TEST 0.000 14:35
INTERNAL STANDARD VERIFIED 14:36
 Xg = 0.085 (0.41%)
EXTERNAL STANDARD 0.077 14:36
 X[L] = 0.0779 (-0.0021) (0.0014)
BLANK TEST 0.000 14:37
SUBJECT SAMPLE INTERFERENCE 14:38
 X[L] = 0.1023 (-0.0193) (0.0000)

CS

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100686

Date: 12/02/2013
Time: 14:40:59

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

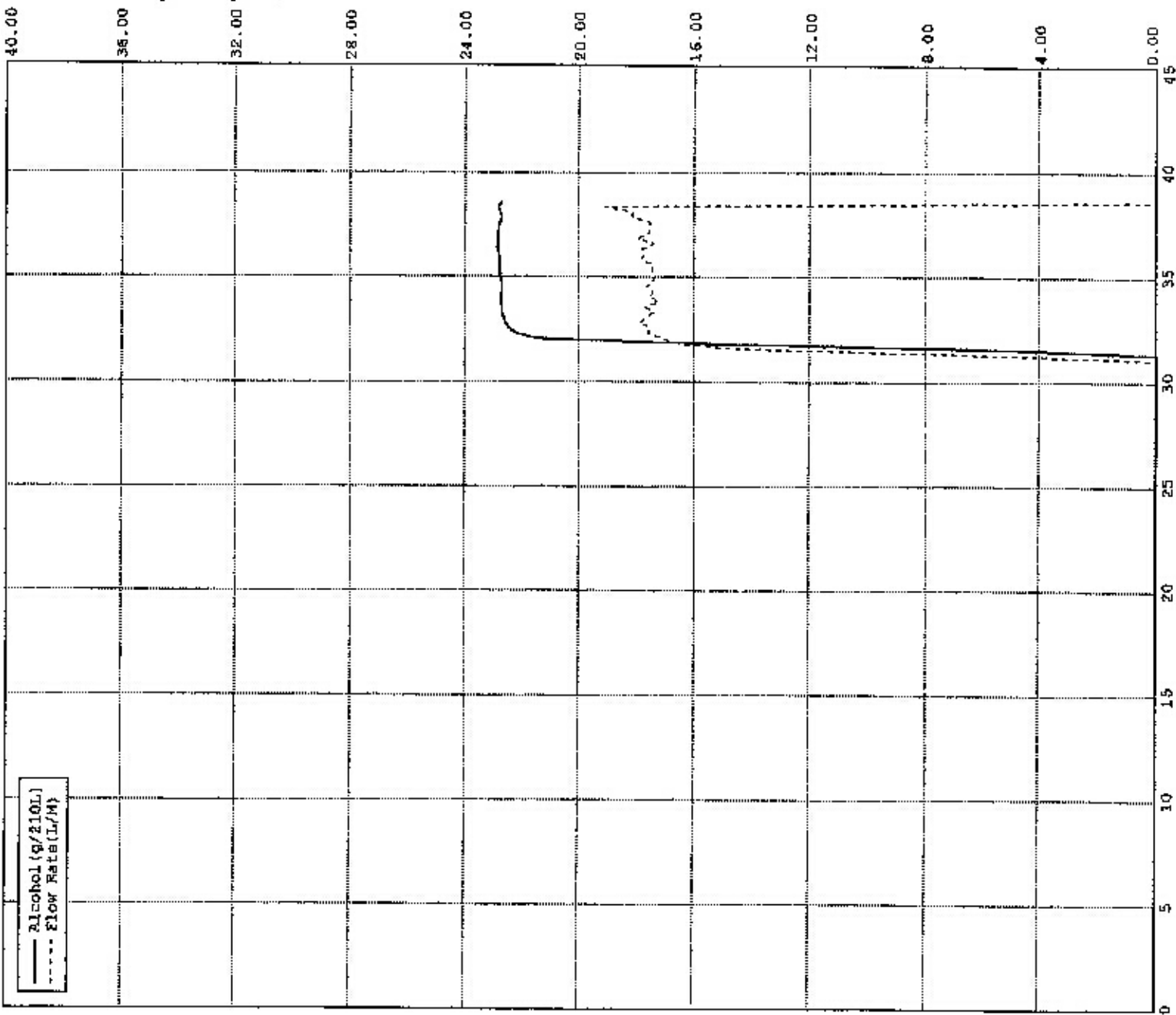
DEPT/AGENCY:

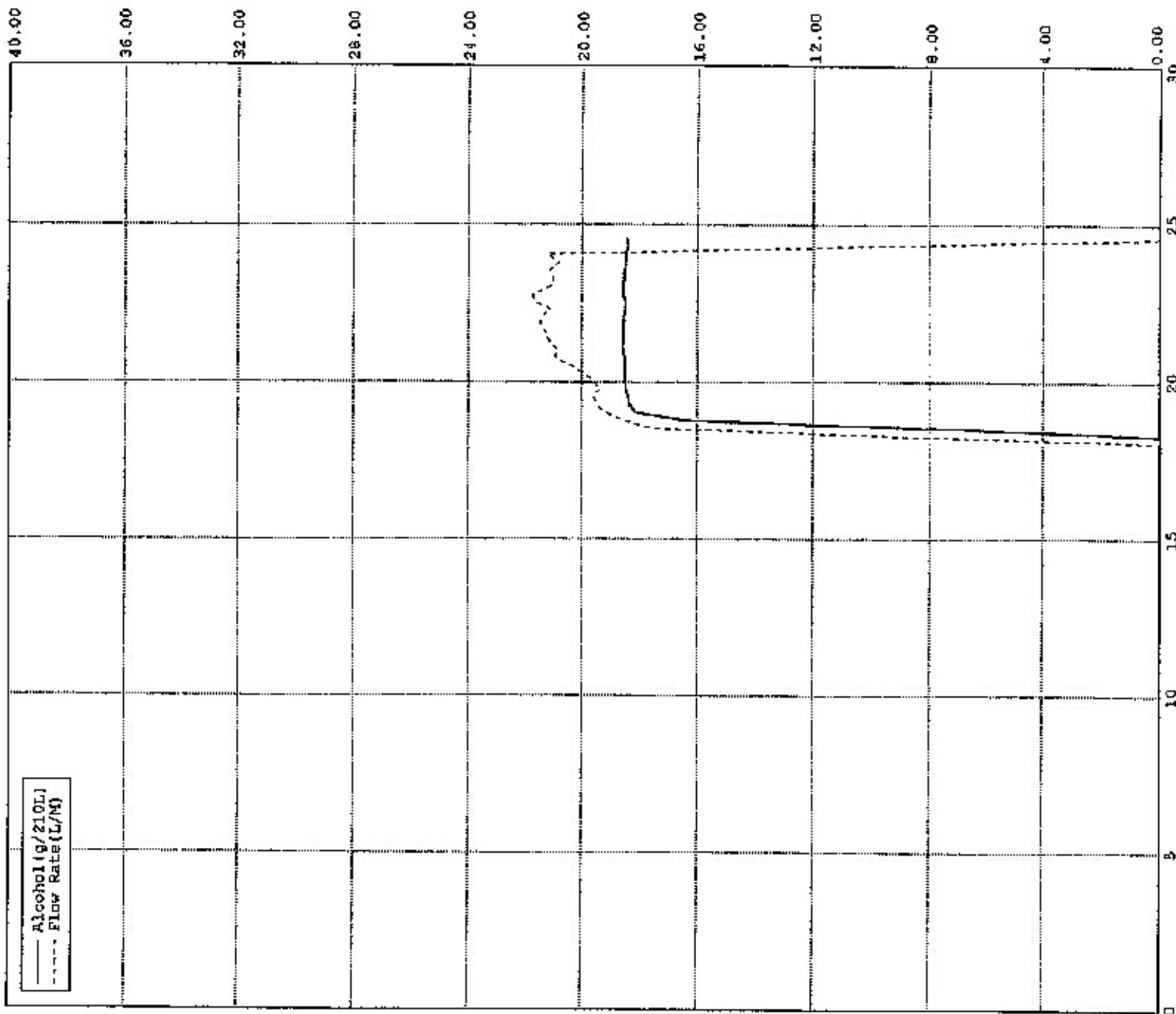
AAA1
CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.43: 0.081
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:42
BLANK TEST	0.000	14:42
INTERNAL STANDARD	VERIFIED	14:42
$X_q = 0.086$ (0.10%)		
EXTERNAL STANDARD	0.078	14:42
$X[1] = 0.0781$ (-0.0019) (0.0010)		
BLANK TEST	0.000	14:43
SUBJECT SAMPLE	INTERFERENCE	14:44
$X[1] = 0.1144$ (-0.0227) (-0.0003)		





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

Date: 12/02/2013
 Time: 15:09:08

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEG CONT

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

DEPT/AGENCY:
 AAAA1

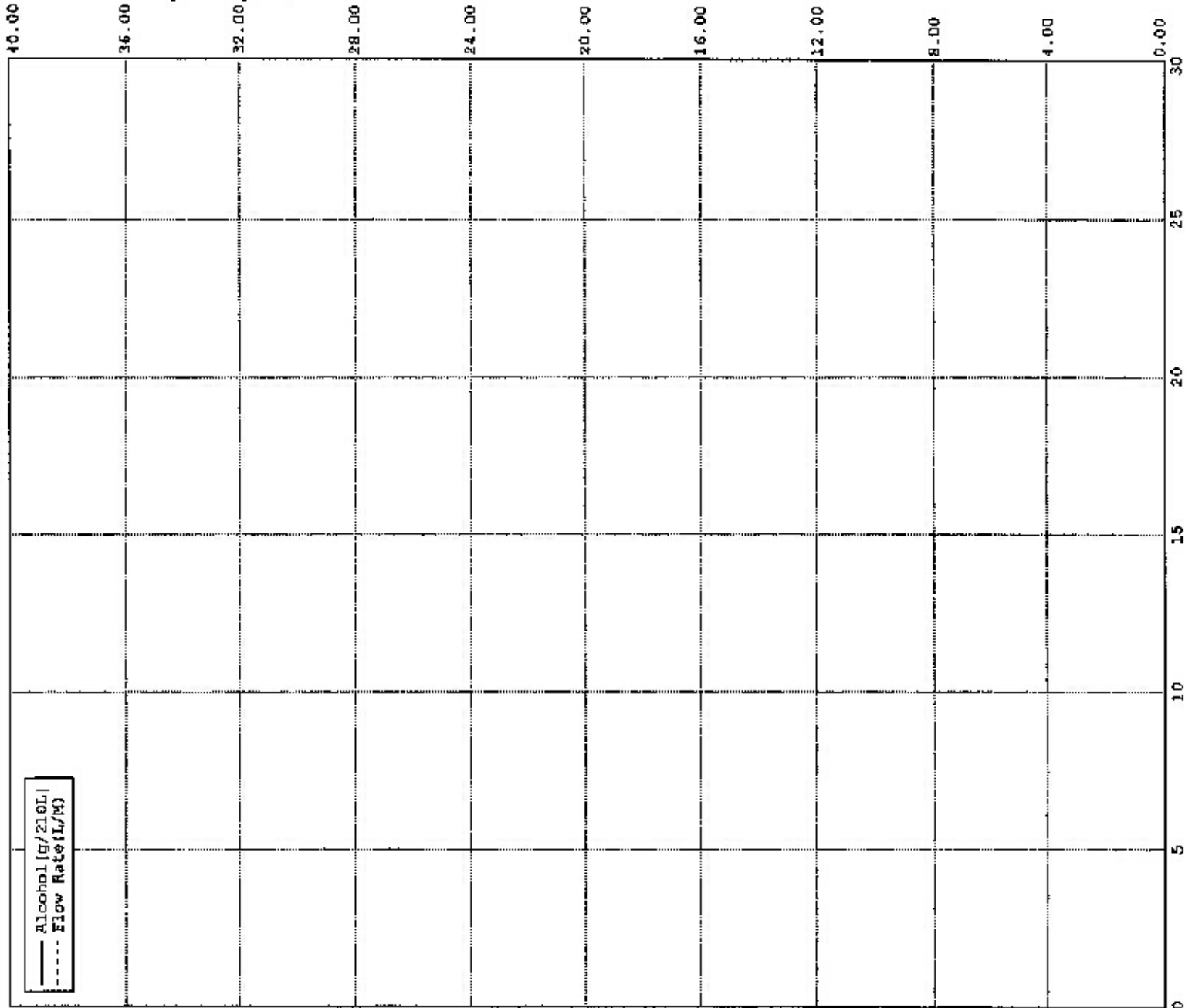
CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK	PASSED	15:12
BLANK TEST	0.000	15:12
INTERNAL STANDARD	VERIFIED	15:12
X _Q = 0.096 (0.00%)		
EXTERNAL STANDARD	0.078	15:13
X[1] = 0.0782 (-0.0020)	(0.0015)	
BLANK TEST	0.000	15:13
SUBJECT SAMPLE (Vol=2.05L)	0.092	15:14
X[1] = 0.0929 (-0.0011)	(-0.0001)	
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.078	15:15
X[1] = 0.0781 (-0.0015)	(0.0014)	
BLANK TEST	0.000	15:16

CS



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dnt: 100666

 Date: 12/02/2013
 Time: 15:19:35

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

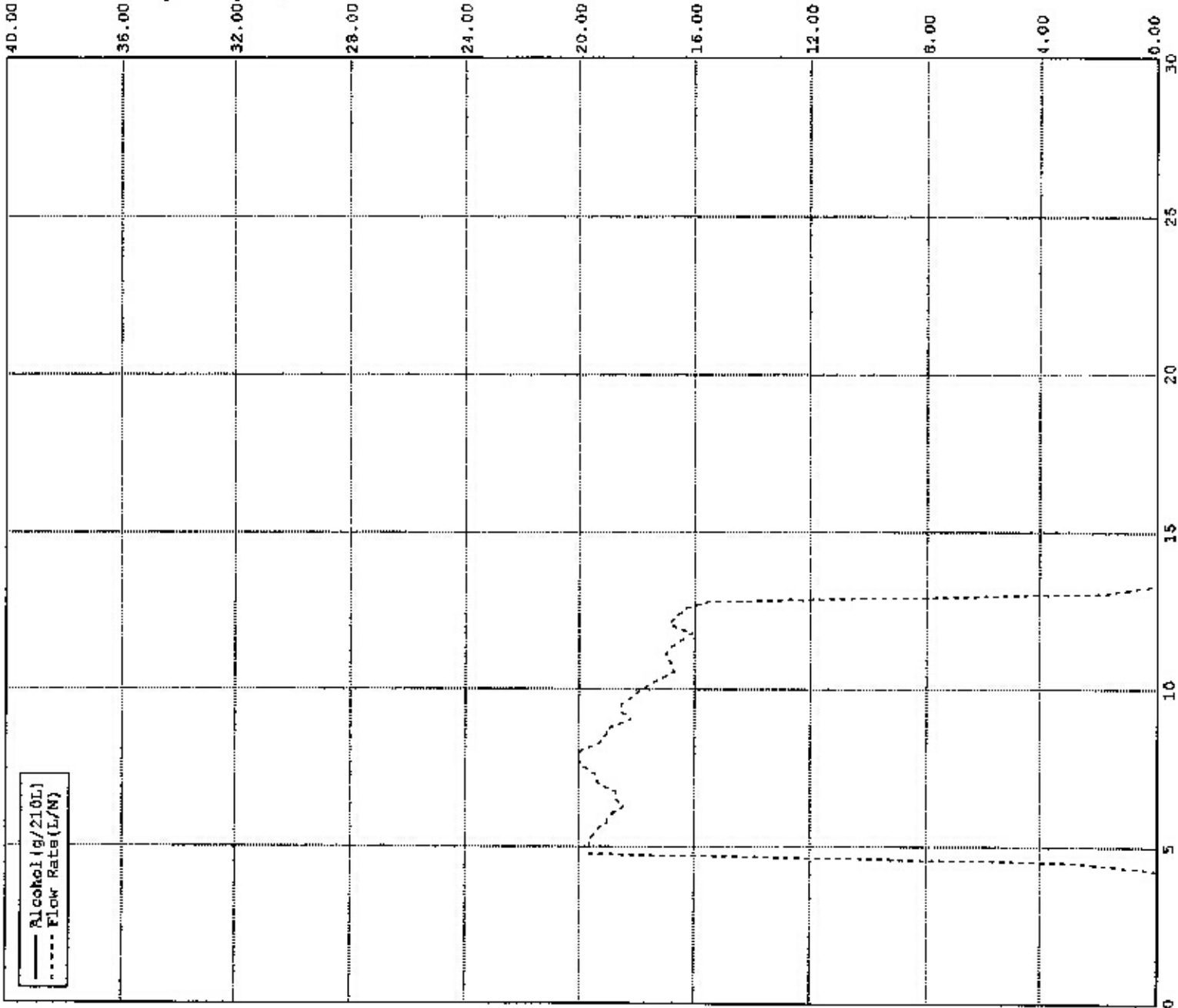
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.43: 0.091
ICF #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 15:20
BLANK TEST 0.000 15:20
INTERNAL STANDARD VERIFIED 15:20
EXTERNAL STANDARD 0.078 15:21
BLANK TEST 0.000 15:22

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100666

Date: 12/02/2013
 Time: 15:33:58

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON DRINKING

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 30.43: 0.081
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:36
BLANK TEST	0.000	15:36
INTERNAL STANDARD	VERIFIED	15:36
EXTERNAL STANDARD	0.078	15:36
BLANK TEST	0.000	15:37
SUBJECT SAMPLE	0.000	15:38
BLANK TEST	0.000	15:38
EXTERNAL STANDARD	0.078	15:39
BLANK TEST	0.000	15:40

Final page for report

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2/13/2014