

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100423 Analyst Colleen Start Date 7/12/13
Diagnostic Test (attached) O'Bryant

1. Voltage Checks

- a. Adjust voltages, if needed
- i. Lamp (2.5V 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 00813030A1 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 12120 Exp 8/10/14
 - 1. Simulator S/N DR4162 Date Calibrated 10/9/12
 - vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15
 - 1. Simulator S/N DR4163 Date Calibrated 10/8/12

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 DR5298 Date Calibrated 10/8/12
 - ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 - 1. Simulator S/N SD1202 Date Calibrated 10/9/12
 - iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 - 1. Simulator S/N SD1170 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 7/18/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100423

Date: 07/12/2013
Time: 12:00:12

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 47.9°C PASSED

PUMP INFO

Flow Rate = 4.468 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: 100423

Date: 07/12/2013
Time: 1:01 PM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 48.3°C

Current Barometer: 29.4 in
Volume (Ltr): 1.52

Settings

Lamp: 1.79 V
Bias: 80 V
Cooler: 1.61 V
Chopper: 557 Hz

Voltages (V)

Flow: 1.06 V
Detector: -0.035 V

CALIBRATION FACTORS

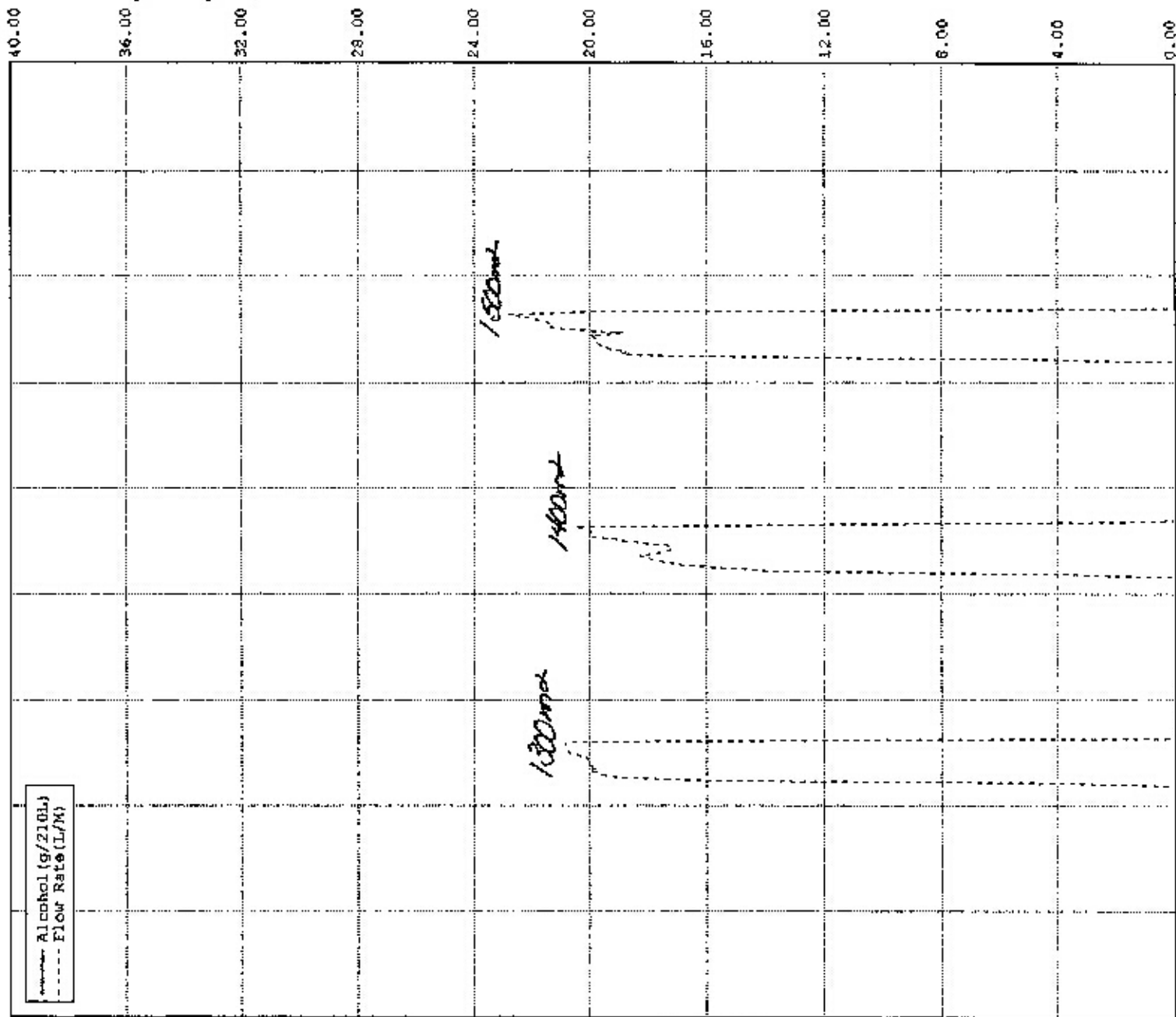
Alaska Department of Public Safety
DATAMASTER cmt: 100423

Date: 08/25/2011
Time: 12:00:13

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

LOT #: GUTH100
BOTTLE #: 11050
EXPIRATION: 04/06/2013

Ca	=	0.1000			
CAL	=	1.003840	0.800	<=	CAL < 1.200
b1	=	0.0004	0.0000	<=	b1 < 0.0040
b2	=	0.0028	0.0010	<=	b2 < 0.0100
b3	=	0.0001	0.0000	<=	b3 < 0.0040
Xq	=	0.0925	0.0500	<=	Xq < 0.2000
a21	=	1.149484	1.050	<=	a21 < 1.300
a31	=	0.544067	0.300	<=	a31 < 0.800



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100423

 Date: 07/12/2013
 Time: 13:03:10

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

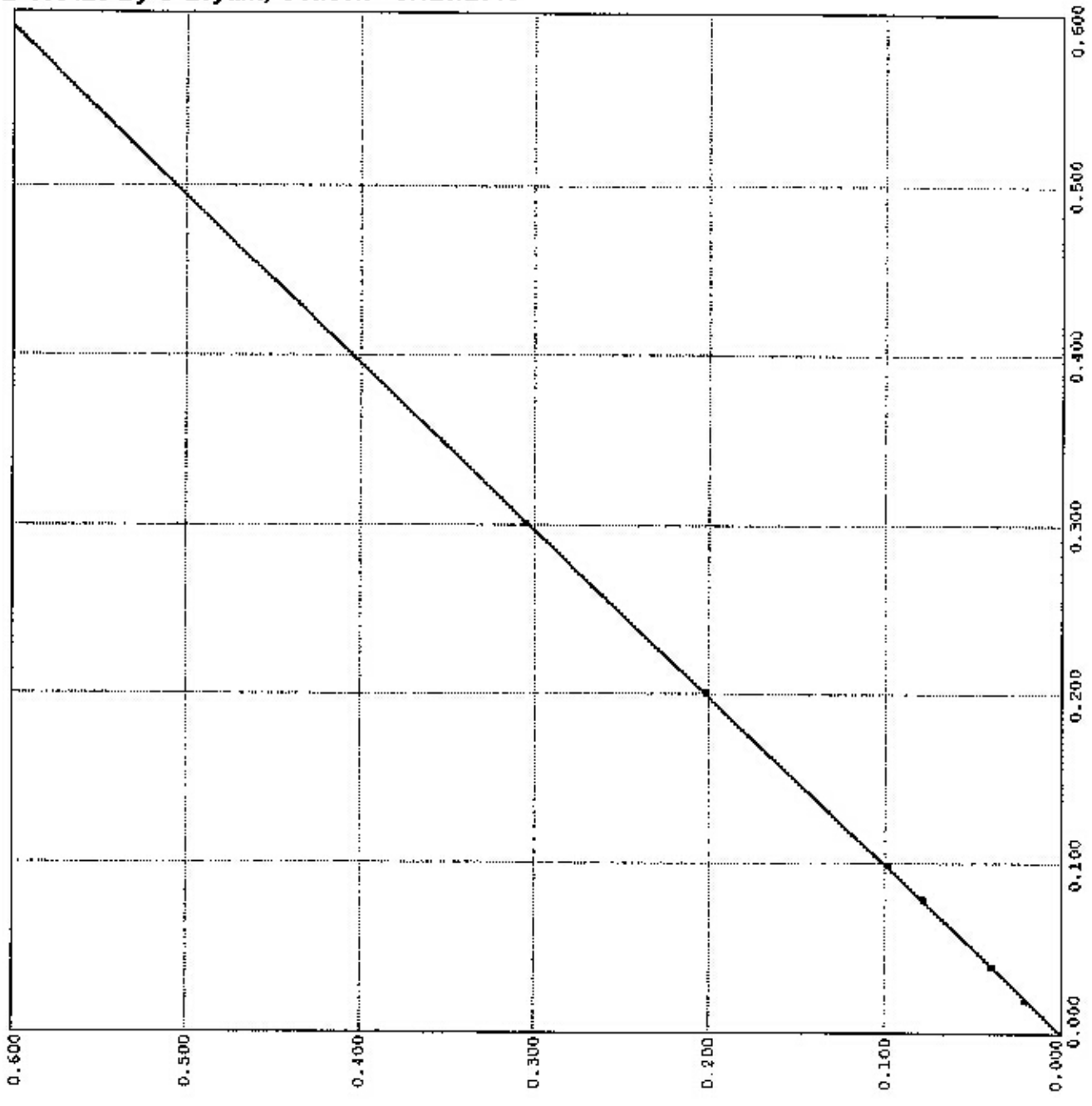
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.44: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:04
BLANK TEST	0.000	13:04
INTERNAL STANDARD	VERIFIED	13:04
EXTERNAL STANDARD	0.078	13:05
BLANK TEST	0.000	13:05
SUBJECT SAMPLE	0.000	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.079	13:08
BLANK TEST	0.000	13:09

(CS)



LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER dnt: 100423

 Date: 07/15/2013
 Time: 17:17:38

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0214	0.0002
0.039	0.0407	0.0001
0.079	0.0797	0.0004
0.099	0.0994	0.0001
0.200	0.2024	0.0002
0.300	0.3059	0.0004

SLOPE = 1.013796
 R² = 0.999864

CAB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

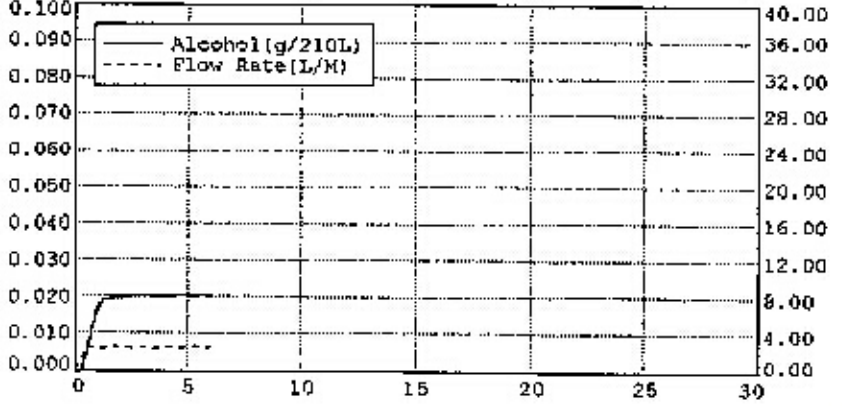
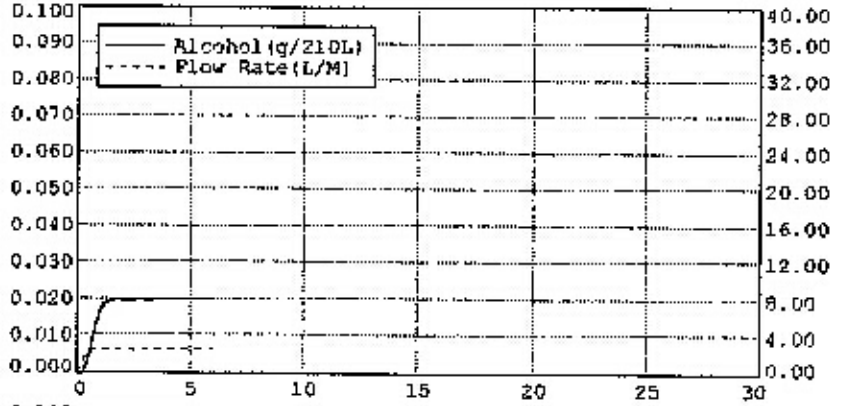
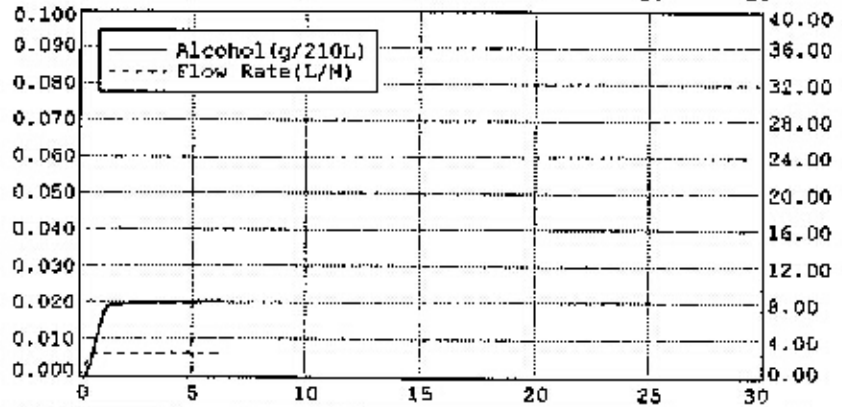
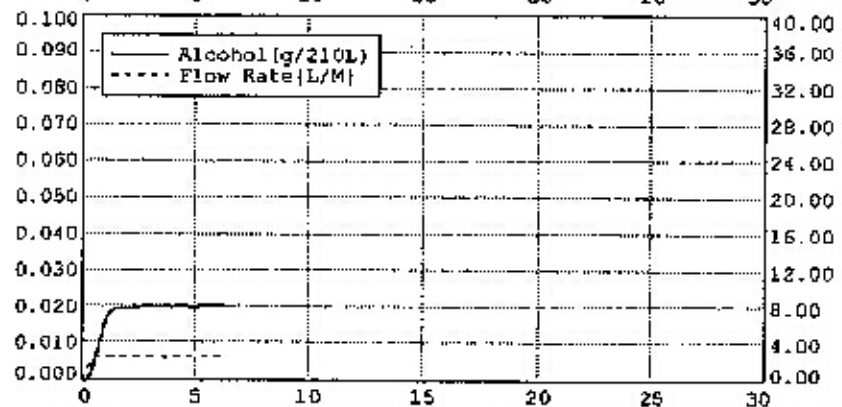
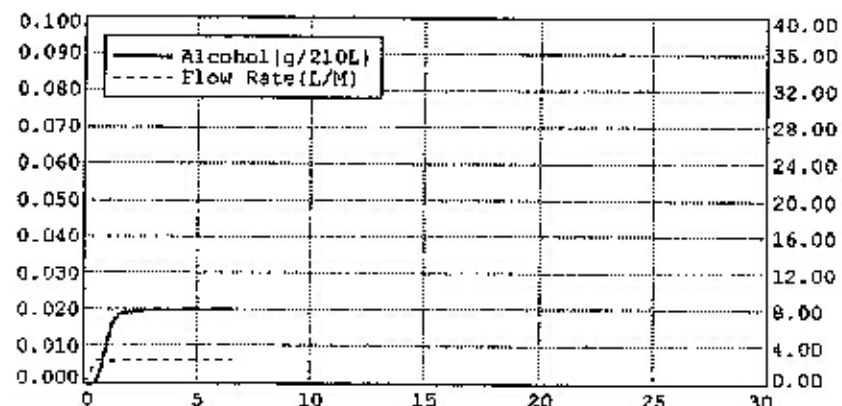
Date: 07/15/2013
 Time: 17:17:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.81: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	17:40
INTERNAL STANDARD	VERIFIED	17:40
EXTERNAL STANDARD	0.021	17:40
BLANK TEST	0.000	17:41
EXTERNAL STANDARD	0.021	17:41
BLANK TEST	0.000	17:42
EXTERNAL STANDARD	0.021	17:42
BLANK TEST	0.000	17:43
EXTERNAL STANDARD	0.021	17:43
BLANK TEST	0.000	17:44
EXTERNAL STANDARD	0.021	17:45
BLANK TEST	0.000	17:45

Average = 0.0214
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100423

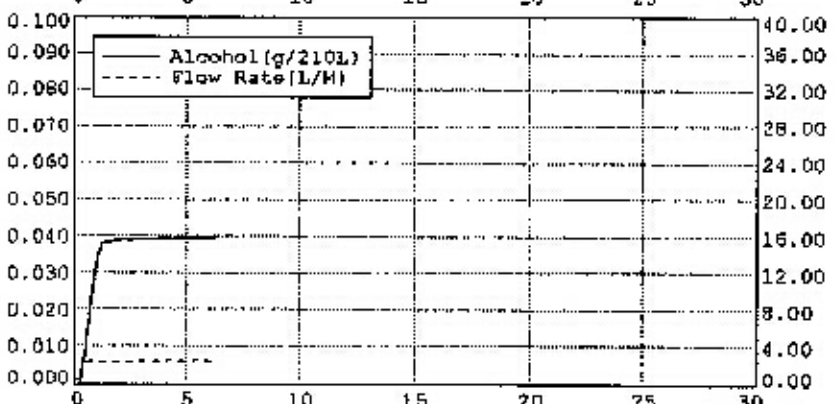
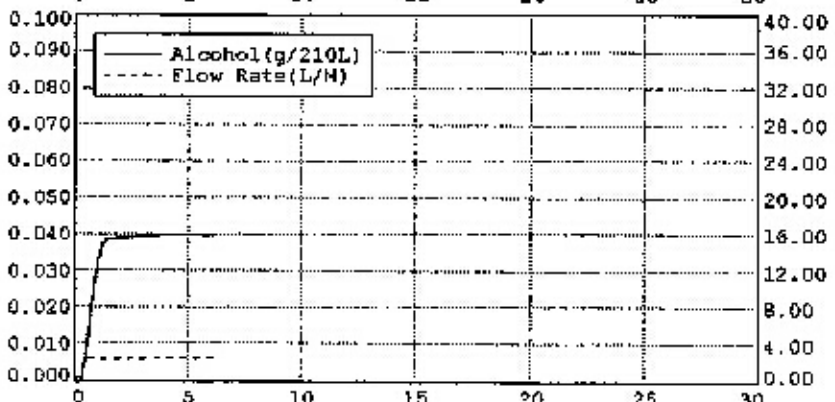
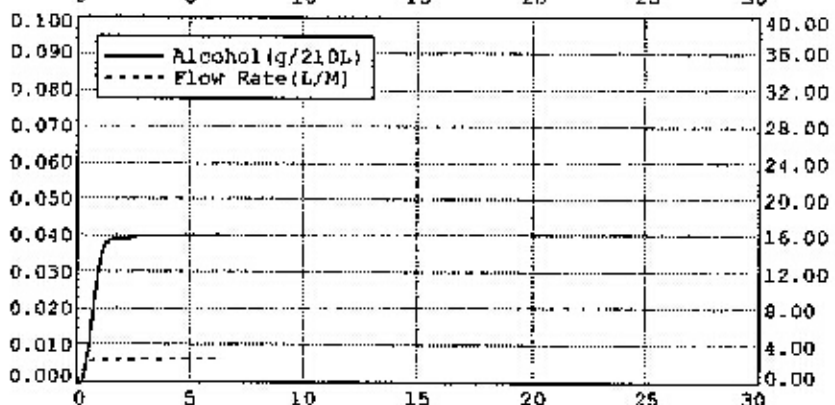
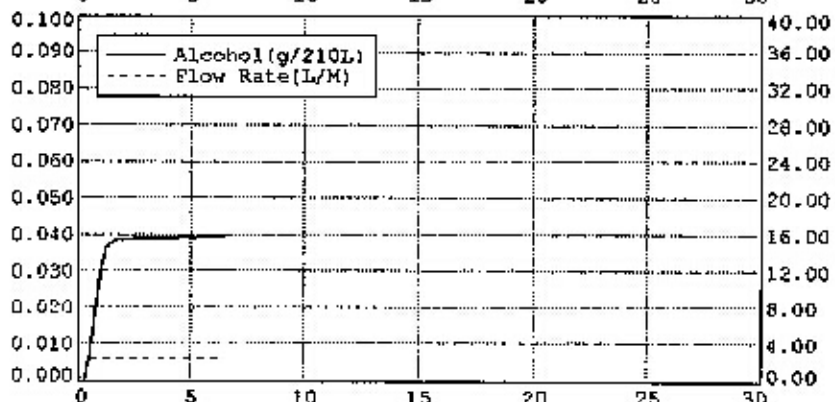
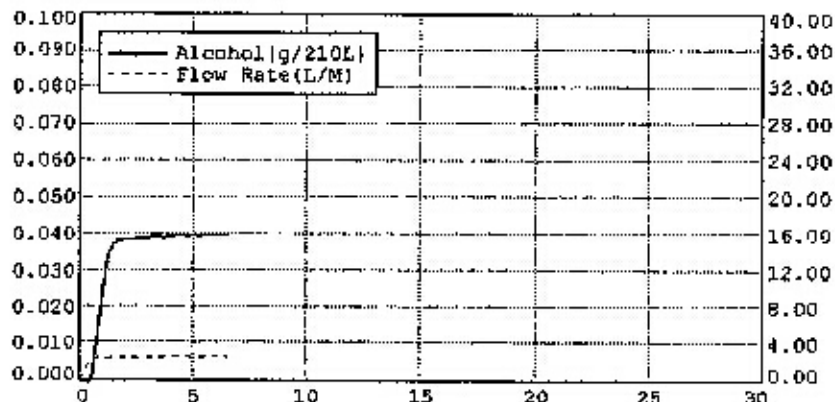
Date: 07/15/2013
 Time: 18:01:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.80: 0.039
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	18:02
INTERNAL STANDARD	VERIFIED	18:02
EXTERNAL STANDARD	0.040	18:03
BLANK TEST	0.000	18:04
EXTERNAL STANDARD	0.040	18:04
BLANK TEST	0.000	18:05
EXTERNAL STANDARD	0.040	18:05
BLANK TEST	0.000	18:06
EXTERNAL STANDARD	0.040	18:06
BLANK TEST	0.000	18:07
EXTERNAL STANDARD	0.040	18:07
BLANK TEST	0.000	18:08

Average = 0.0407
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

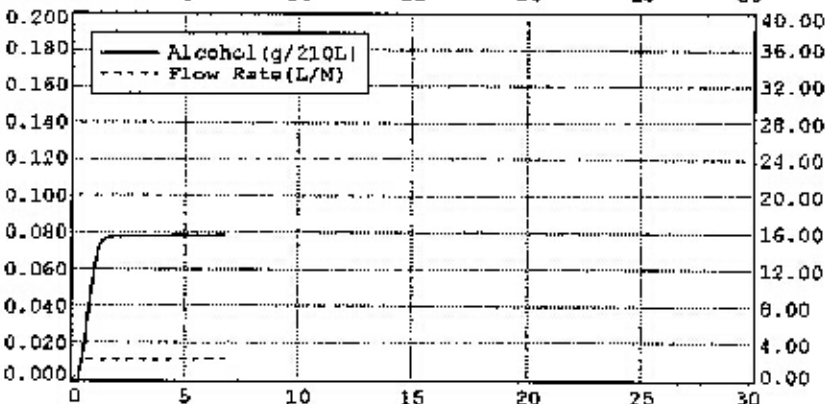
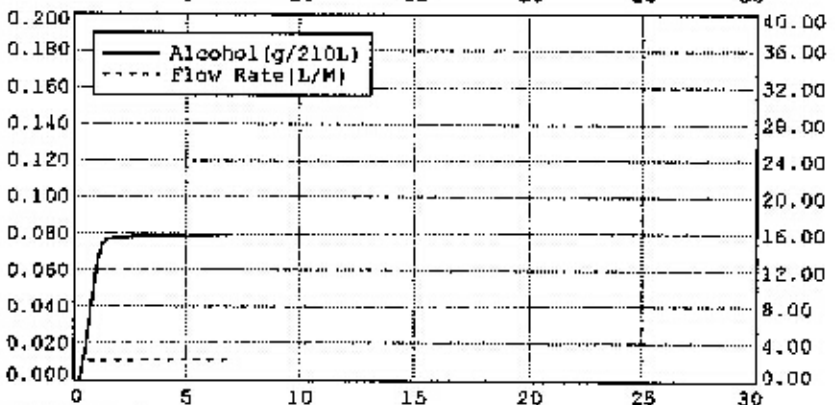
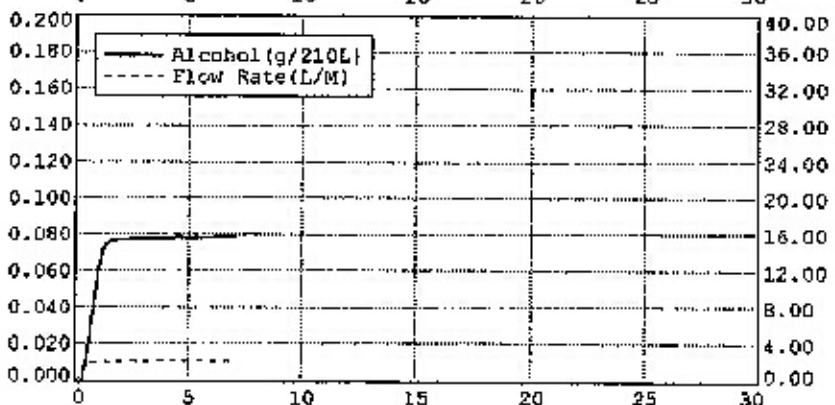
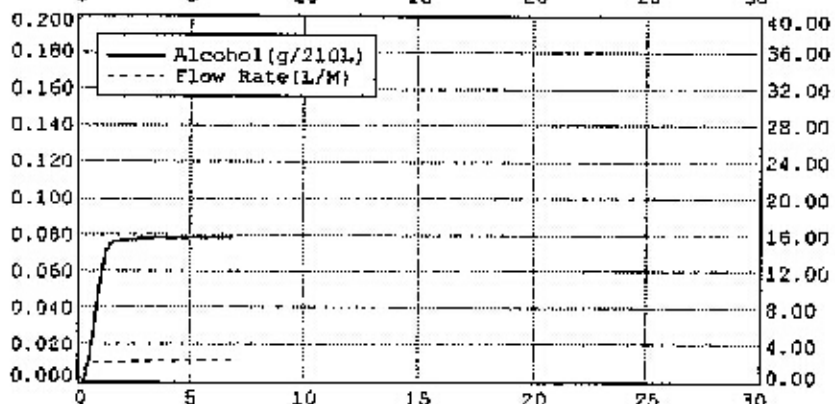
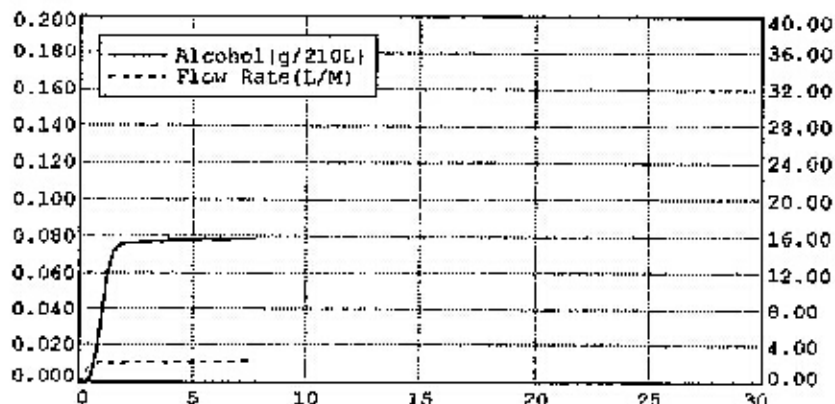
Date: 07/15/2013
 Time: 18:15:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.79: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	18:16
INTERNAL STANDARD	VERIFIED	18:16
EXTERNAL STANDARD	0.079	18:16
BLANK TEST	0.000	18:17
EXTERNAL STANDARD	0.079	18:18
BLANK TEST	0.000	18:18
EXTERNAL STANDARD	0.079	18:19
BLANK TEST	0.000	18:20
EXTERNAL STANDARD	0.080	18:20
BLANK TEST	0.000	18:21
EXTERNAL STANDARD	0.079	18:21
BLANK TEST	0.000	18:22

Average = 0.0797
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

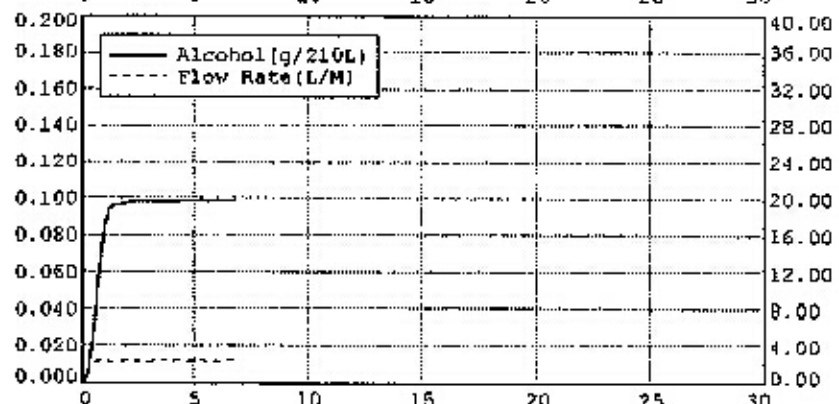
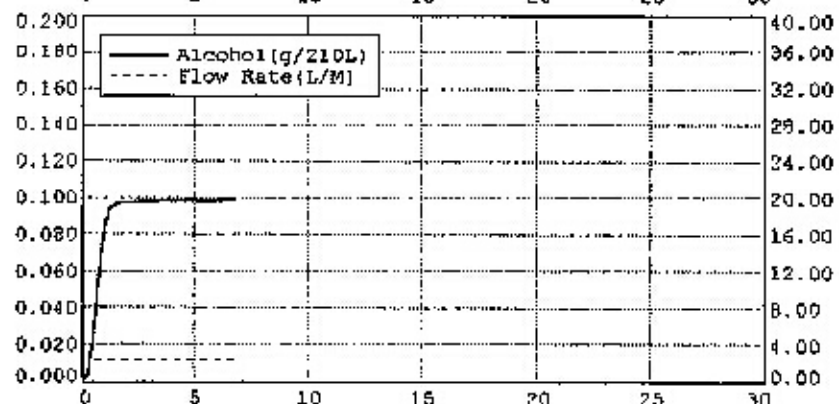
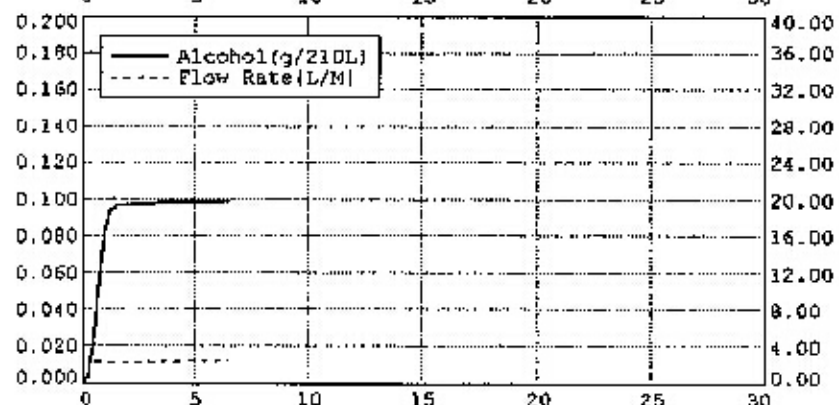
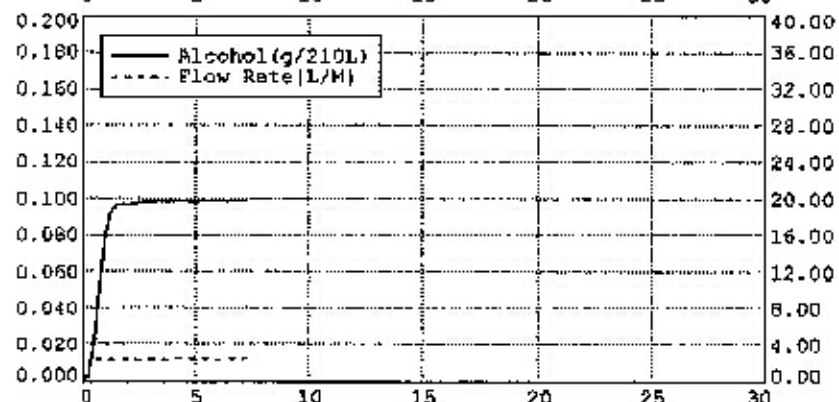
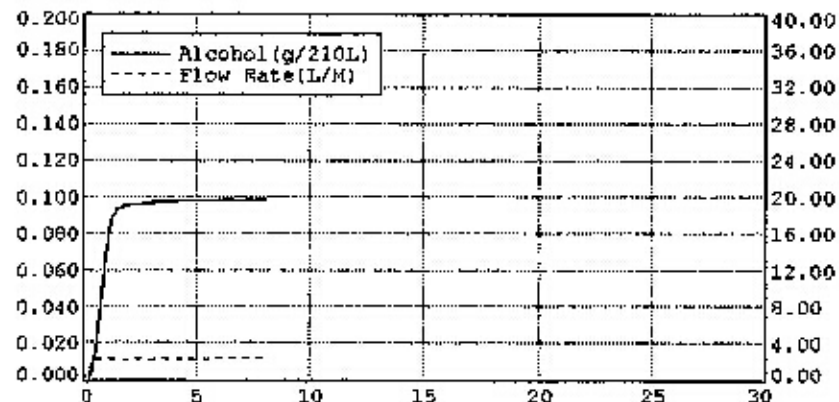
Date: 07/15/2013
 Time: 18:26:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.79: 0.099
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	18:27
INTERNAL STANDARD	VERIFIED	18:28
EXTERNAL STANDARD	0.099	18:28
BLANK TEST	0.000	18:29
EXTERNAL STANDARD	0.099	18:29
BLANK TEST	0.000	18:30
EXTERNAL STANDARD	0.099	18:30
BLANK TEST	0.000	18:31
EXTERNAL STANDARD	0.099	18:31
BLANK TEST	0.000	18:32
EXTERNAL STANDARD	0.099	18:32
BLANK TEST	0.000	18:33

Average = 0.0994
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

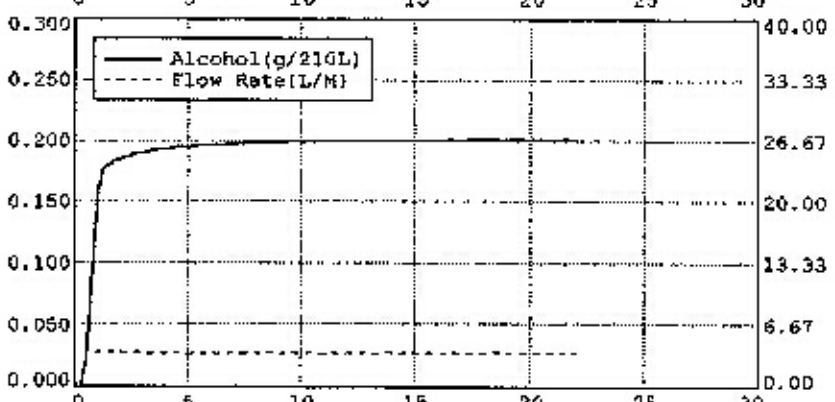
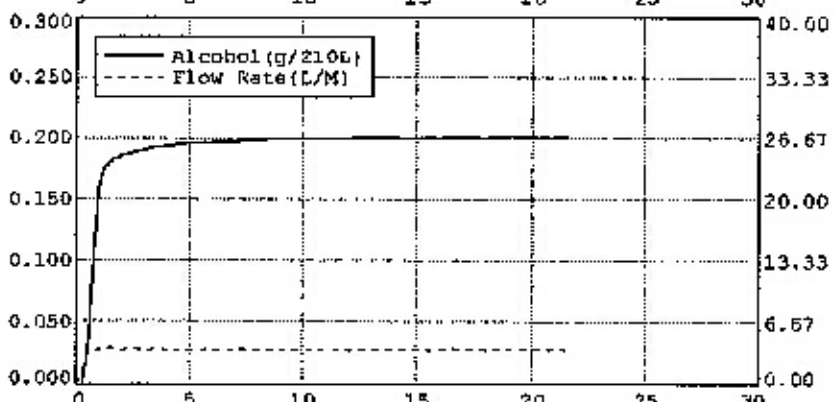
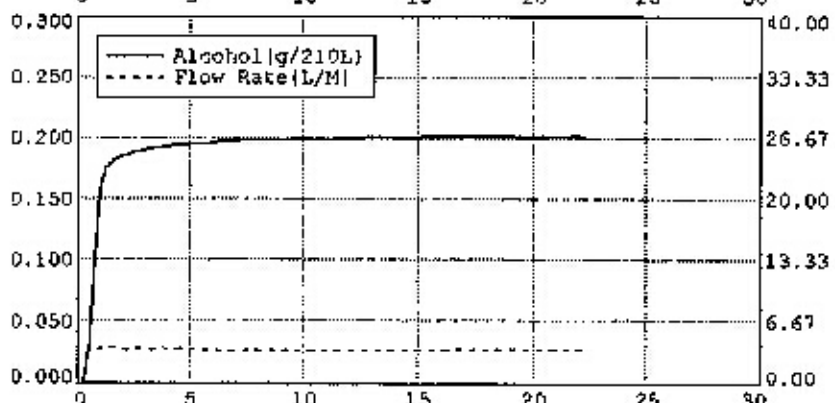
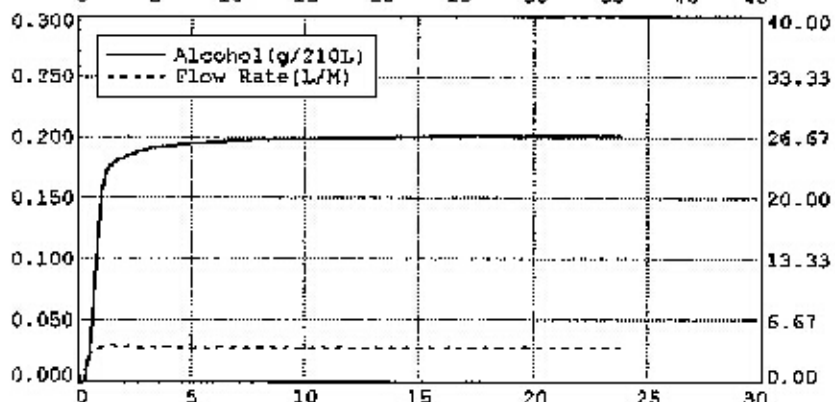
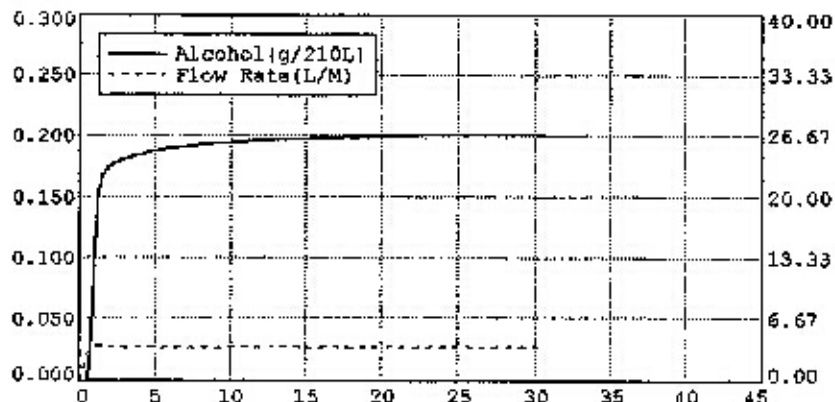
Date: 07/15/2013
 Time: 18:35:49

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	18:37
INTERNAL STANDARD	VERIFIED	18:37
EXTERNAL STANDARD	0.202	18:37
BLANK TEST	0.000	18:39
EXTERNAL STANDARD	0.202	18:39
BLANK TEST	0.000	18:40
EXTERNAL STANDARD	0.202	18:40
BLANK TEST	0.000	18:41
EXTERNAL STANDARD	0.202	18:42
BLANK TEST	0.000	18:43
EXTERNAL STANDARD	0.202	18:43
BLANK TEST	0.000	18:44

Average = 0.2024
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

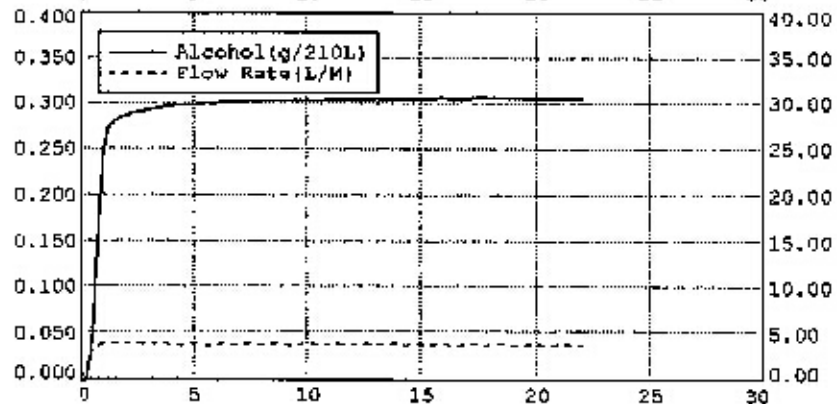
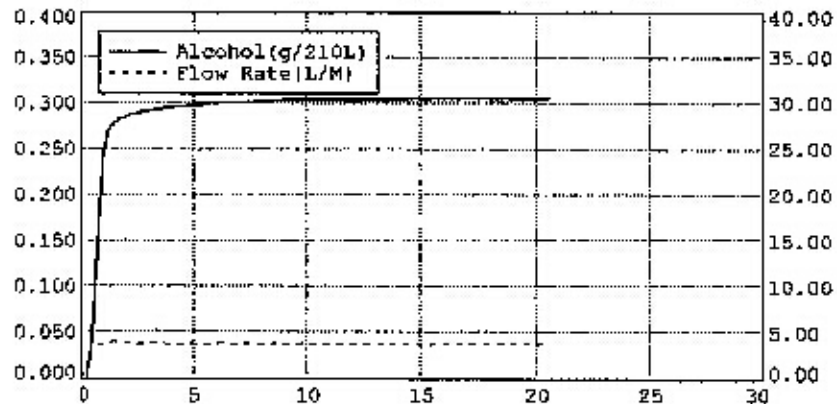
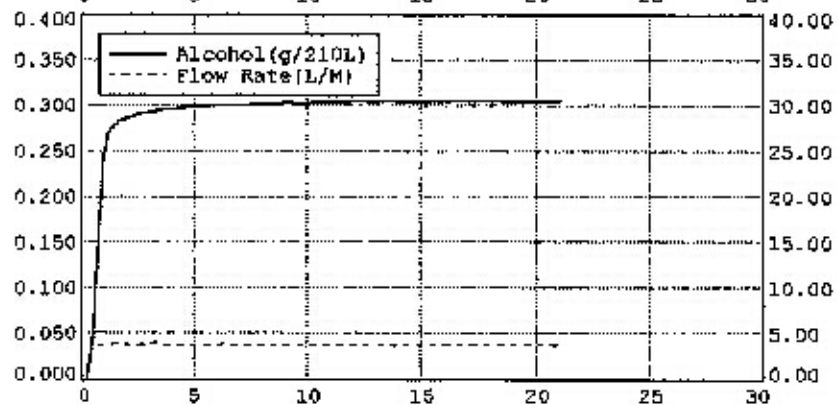
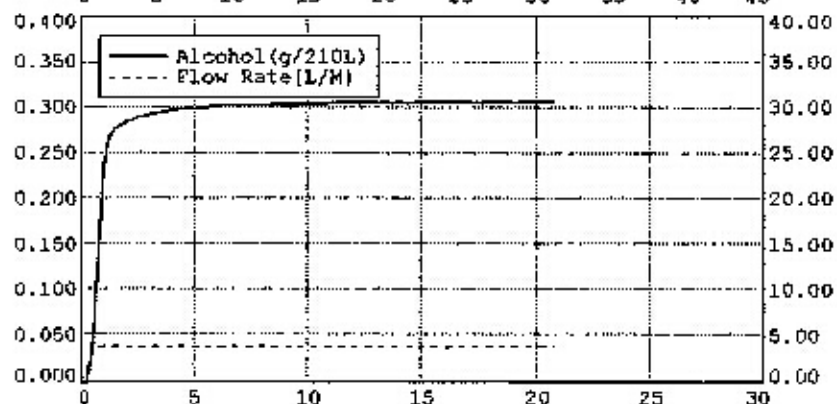
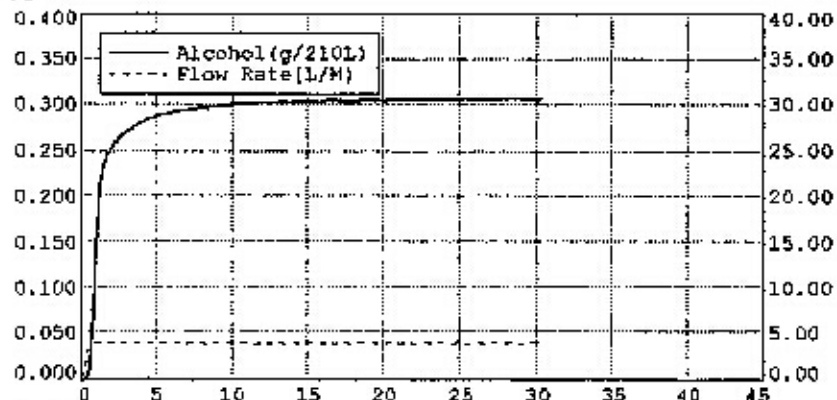
Date: 07/15/2013
 Time: 18:47:39

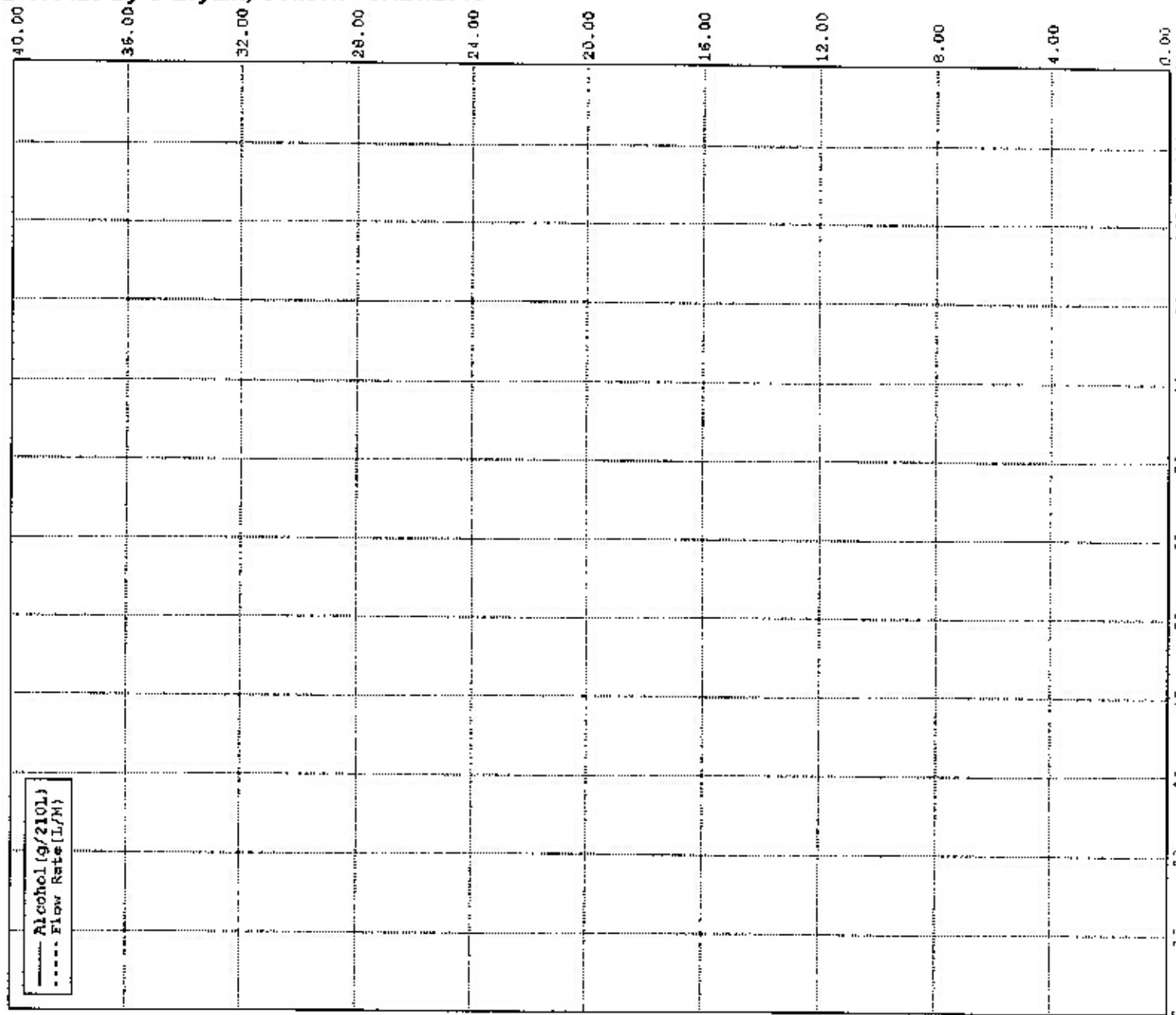
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	18:48
INTERNAL STANDARD	VERIFIED	18:48
EXTERNAL STANDARD	0.306	18:49
BLANK TEST	0.000	18:50
EXTERNAL STANDARD	0.306	18:50
BLANK TEST	0.000	18:51
EXTERNAL STANDARD	0.305	18:52
BLANK TEST	0.000	18:53
EXTERNAL STANDARD	0.305	18:53
BLANK TEST	0.000	18:54
EXTERNAL STANDARD	0.306	18:55
BLANK TEST	0.000	18:56

Average = 0.3059
 Std Dev = 0.0004





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100423

Date: 07/17/2013
 Time: 07:44:52

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

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

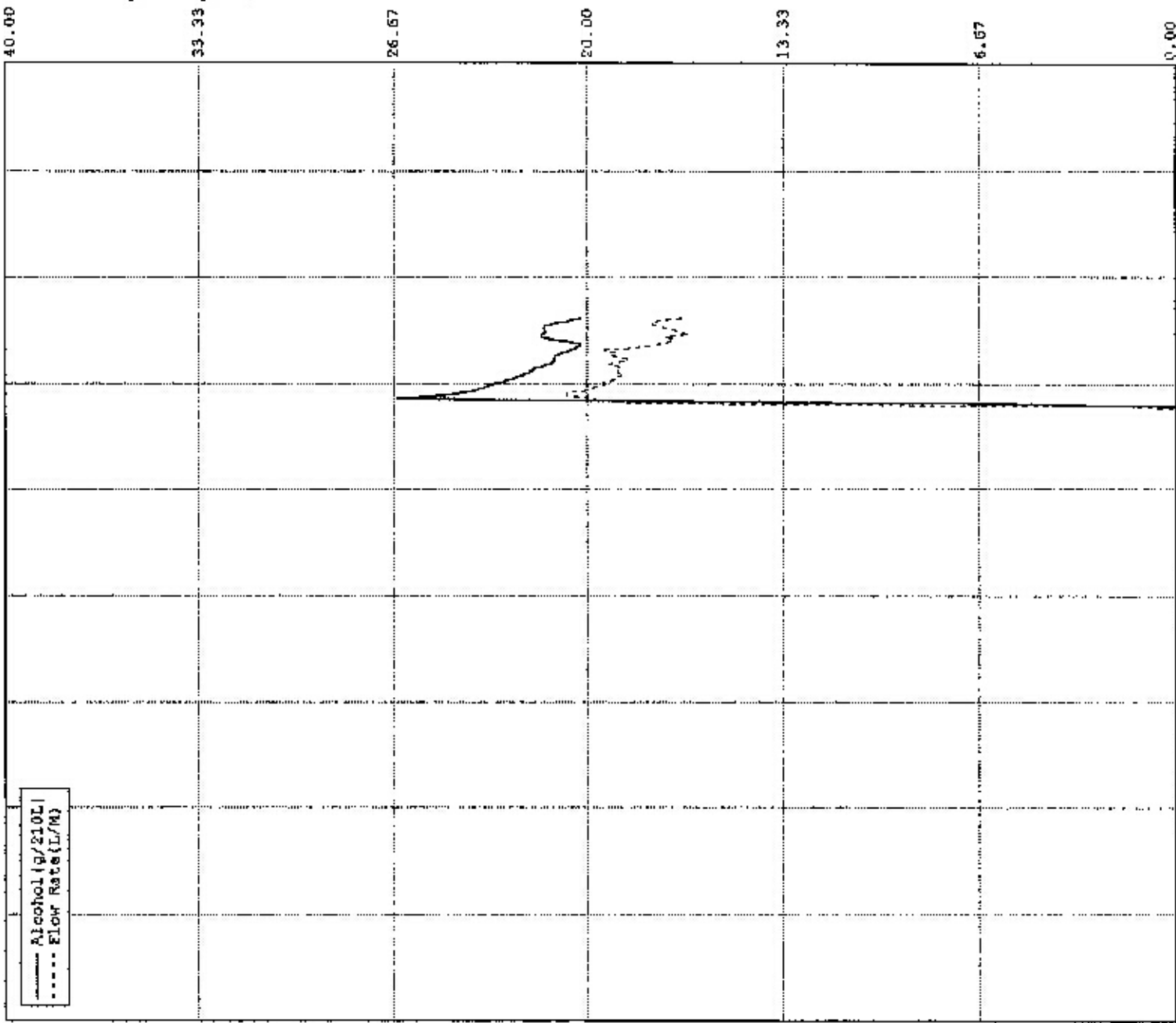
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.60: 0.079
 LOF #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 08:00
 BLANK TEST 0.000 08:00
 INTERNAL STANDARD VERIFIED 08:00
 EXTERNAL STANDARD 0.079 08:00
 BLANK TEST 0.000 08:01
 SUBJECT SAMPLE INCOMPLETE 08:03

CAS



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100423

Date: 07/17/2013
 Time: 08:10:49

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

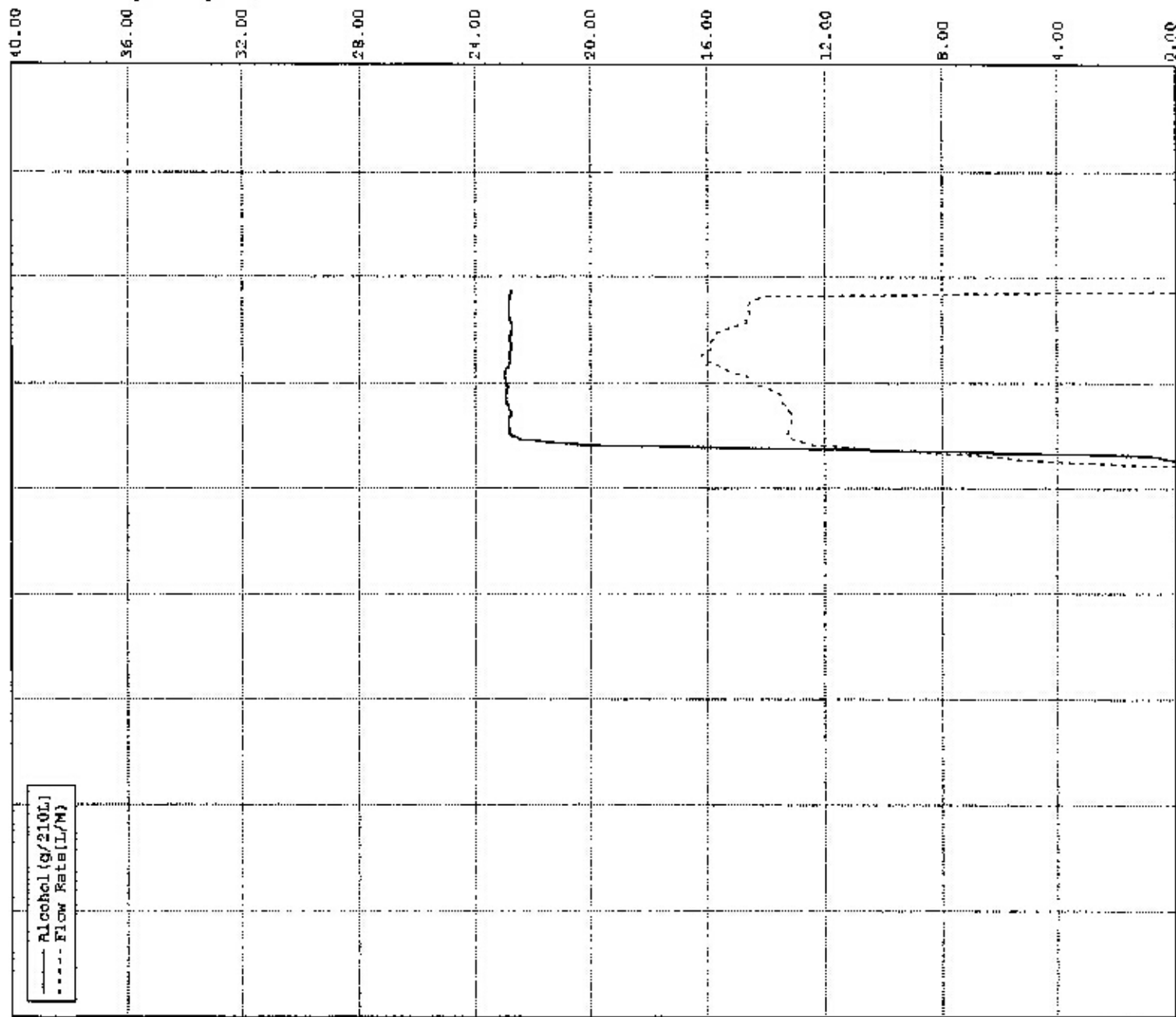
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.60: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:12
BLANK TEST	0.000	08:12
INTERNAL STANDARD	VERIFIED	08:12
EXTERNAL STANDARD	0.078	08:12
BLANK TEST	0.000	08:13
SUBJECT SAMPLE	INVALID	08:15

CB



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100423

Date: 07/17/2013
 Time: 08:19:07

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

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

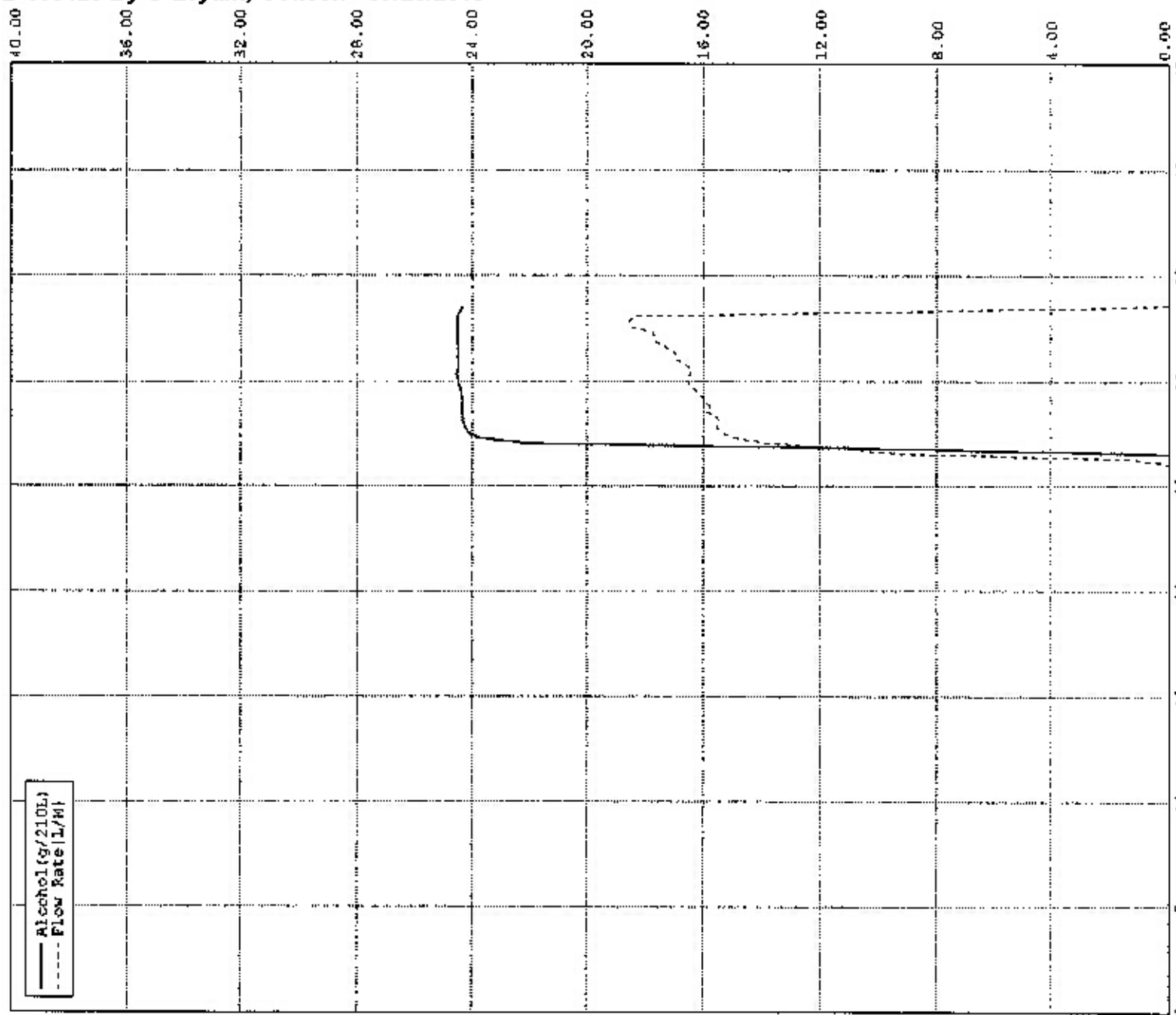
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.60: 0.079
 LOT #: D2012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 08:24
 BLANK TEST 0.000 08:24
 INTERNAL STANDARD VERIFIED 08:24
 Xq = 0.093 (0.00%)
 EXTERNAL STANDARD 0.079 08:24
 X[1] = 0.0791 (0.0010) (0.0009)
 BLANK TEST 0.000 08:25
 SUBJECT SAMPLE INTERFERENCE 08:26
 X[1] = 0.1141 (-0.0231) (-0.0007)

CS



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

Date: 07/17/2013
 Time: 08:29:15

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IRA

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

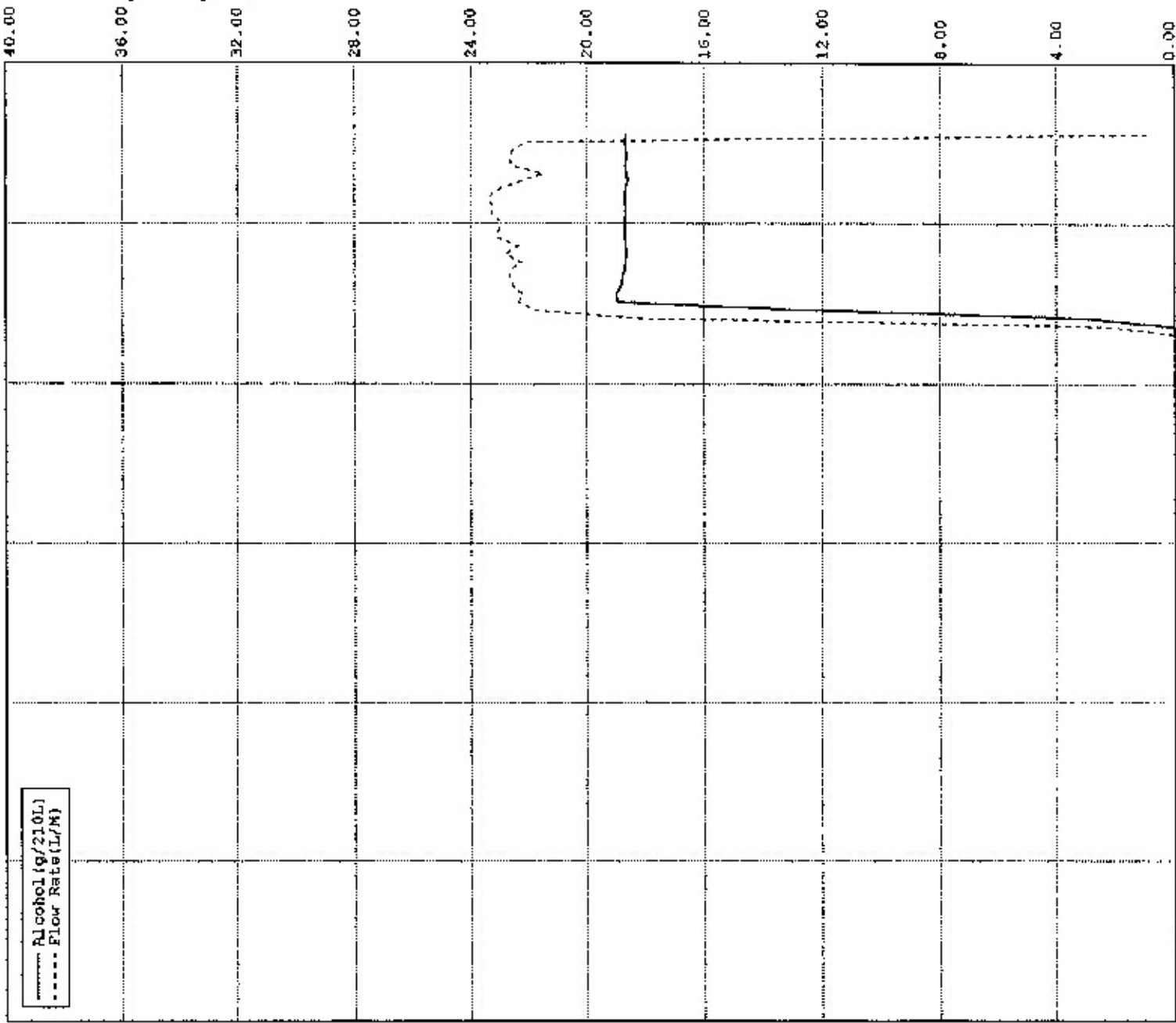
DEPT/AGENCY:
 AAA1
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.59: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:30
BLANK TEST	0.000	09:30
INTERNAL STANDARD	VERIFIED	09:30
$x_q = 0.093$ (0.09%)		
EXTERNAL STANDARD	0.079	09:30
$x\{1\} = 0.0790$ (0.0010)	(0.0016)	
BLANK TEST	0.000	09:31
SUBJECT SAMPLE	INTERFERENCE	09:32
$x\{1\} = 0.1215$ (-0.0236)	(0.0005)	

COB



Alcohol (g/210L)
Flow Rate (L/M)

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100423

Date: 07/18/2013
 Time: 13:34:37

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

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

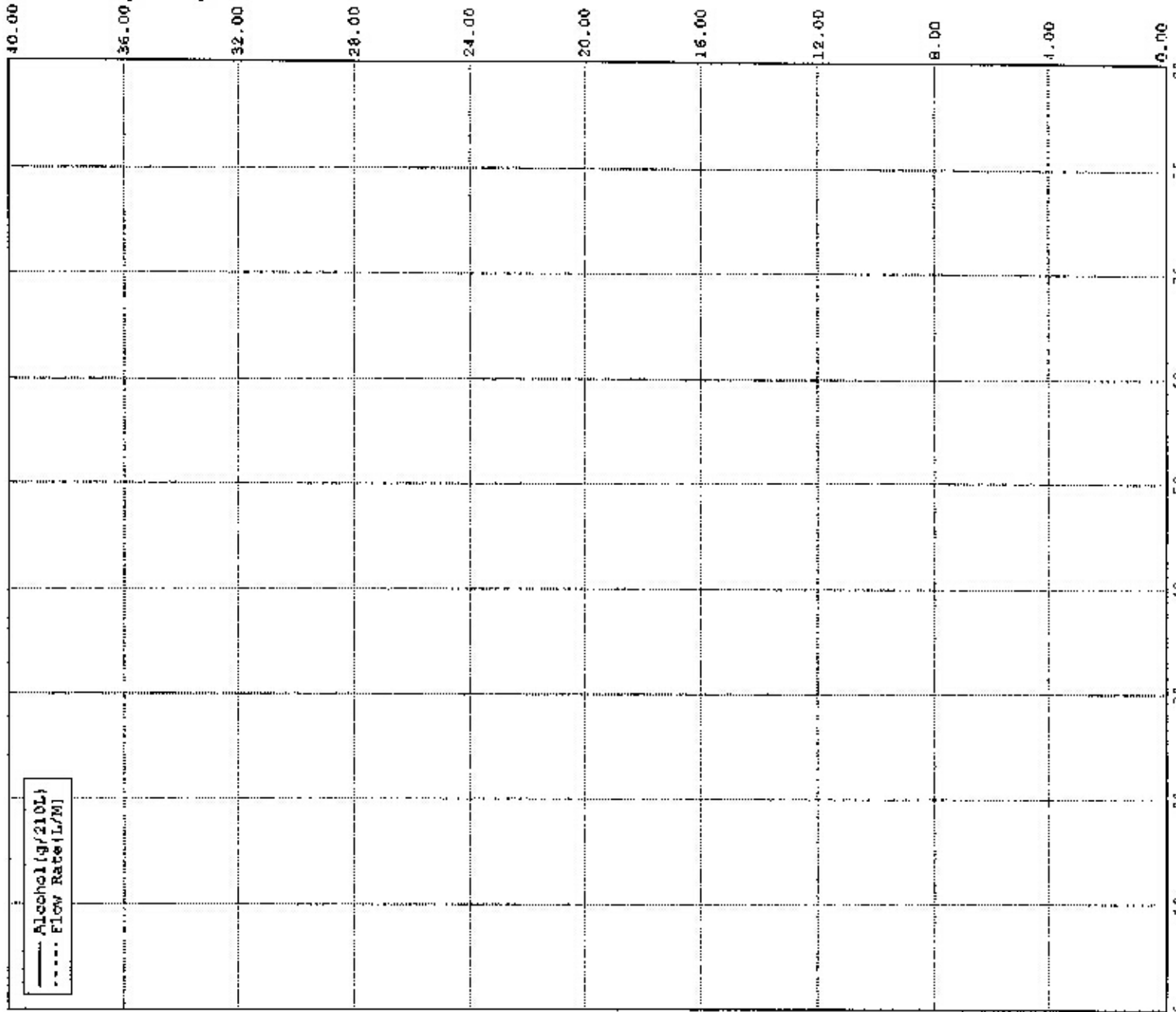
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.61: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:38
BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
Xc = 0.093 (0.00%)		
EXTERNAL STANDARD	0.079	13:39
X[1] = 0.0796 (0.0014) (0.0006)		
BLANK TEST	0.000	13:39
SUBJECT SAMPLE (Vol=2.15L)	0.093	13:40
X[1] = 0.0932 (-0.0011) (-0.0019)		
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.078	13:41
X[1] = 0.0787 (0.0008) (0.0011)		
BLANK TEST	0.000	13:42

COB



SUBJECT TEST

Alaska Department of Public Safety
 DATASHEET dnt: 100423

Date: 07/18/2013
 Time: 13:45:54

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

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

DEPT/AGENCY:
 AAA1

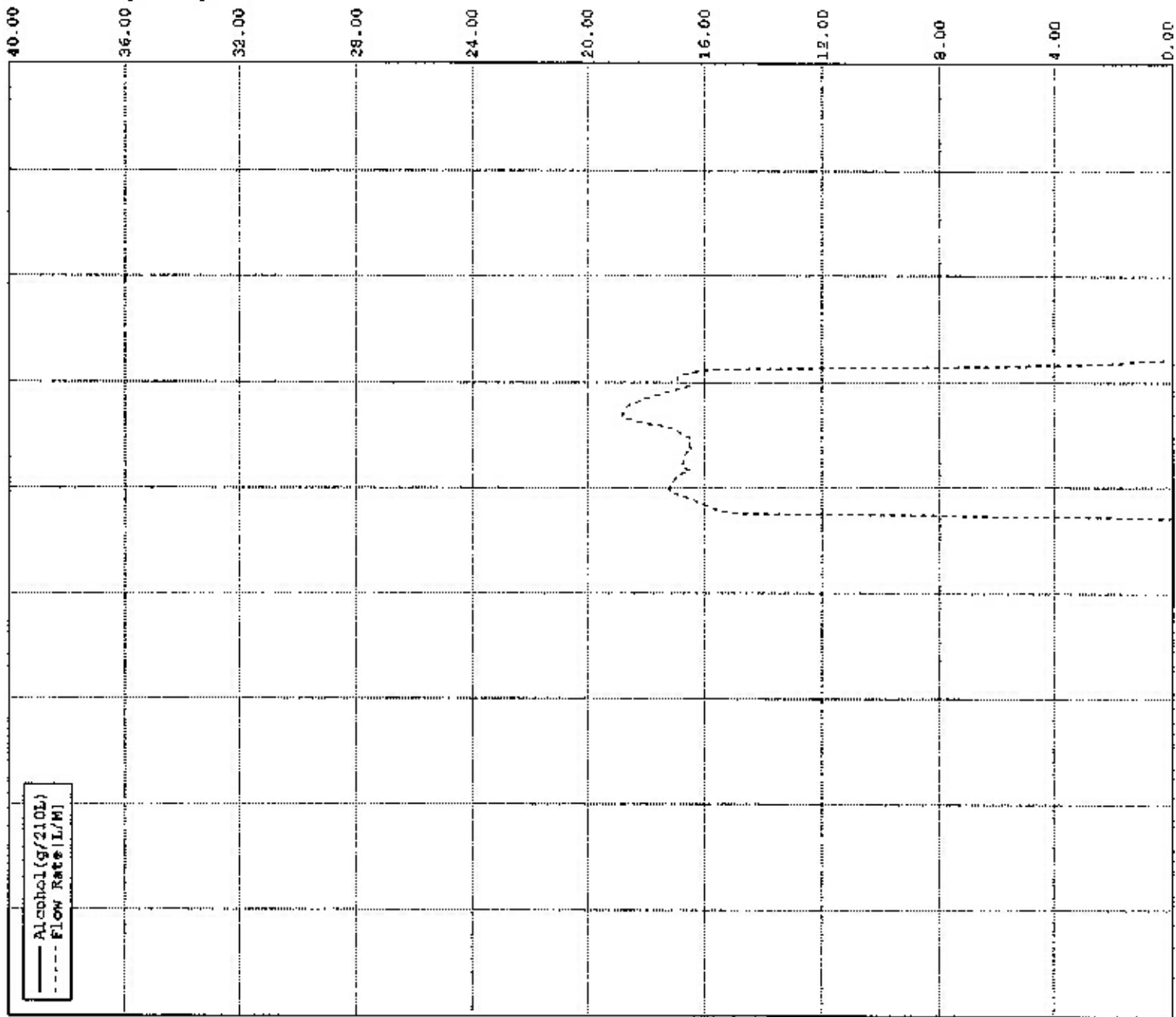
CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK PASSED 13:51
 BLANK TEST 0.000 13:51
 INTERNAL STANDARD VERIFIED 13:51
 EXTERNAL STANDARD 0.079 13:51
 BLANK TEST 0.000 13:52

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER QMT: 100423

Date: 07/18/2013
 Time: 14:48:08

SUBJECT NAME:
 TEST TEST
 LICENSE #: NONDRINKING

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.50: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.078	14:50
BLANK TEST	0.000	14:51
SUBJECT SAMPLE	0.000	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.079	14:53
BLANK TEST	0.000	14:54

COB

Final page for report

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2/18/2014