

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100695 Analyst Colleen O'Bryant Start Date 7/12/13

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 1000 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf ILMO Lot 00813020A1 Exp 8/1/15

ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 8/1/15

iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 8/1/14

iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 8/1/15

v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/14

i. Simulator S/N DR4162 Date Calibrated 10/9/12

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

i. 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

i. Simulator S/N DR5298 Date Calibrated 10/8/12

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

i. Simulator S/N SD1008 Date Calibrated 10/9/12

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

i. Simulator S/N SD1176 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: 100695

Date: 07/12/2013
Time: 08:17:34

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 47.9°C PASSED

PUMP INFO

Flow Rate = 4.137 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: 100695

Date: 07/12/2013

Time: 9:04 AM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 47.6°C

Current Barometer 29.4 in

Volume (Ltr) 1.50

Settings

Lamp: 1.76 V

Bias: 80 V

Cooler: 1.63 V

Chopper: 565 Hz

voltages (V)

Flow: 1.04 V

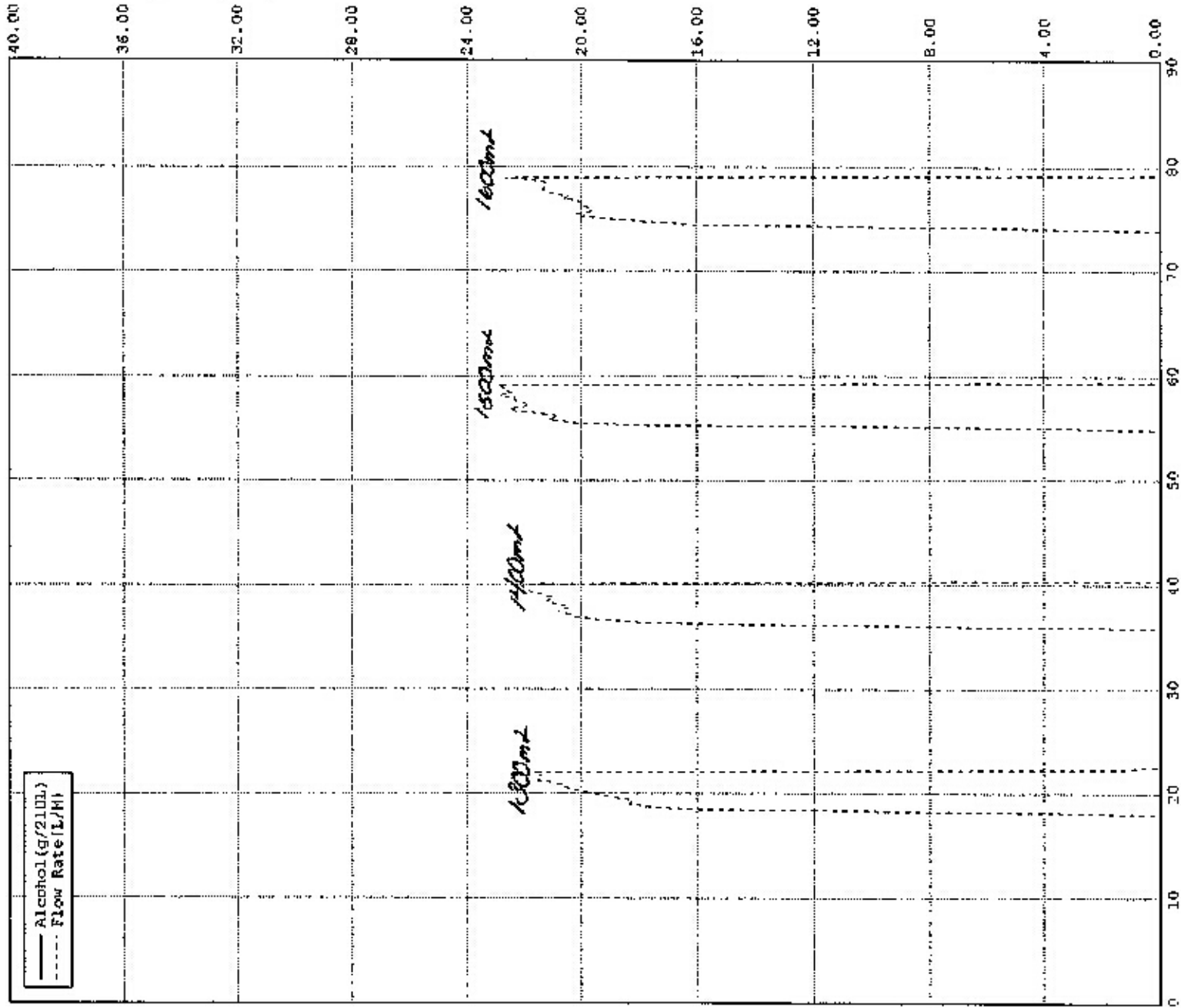
Detector: -0.024 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100695

Date: 11/03/2011
Time: 11:06:42

Ca = 0.1000
CAL = 0.983513 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0038 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xg = 0.1092 0.0500 <= Xg < 0.2000
a21 = 1.156617 1.050 <= a21 < 1.300
a31 = 0.538073 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety

DATAWASTER chmt: 100695

Date: 07/12/2013

Time: 09:09:52

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 29.44: 0.078

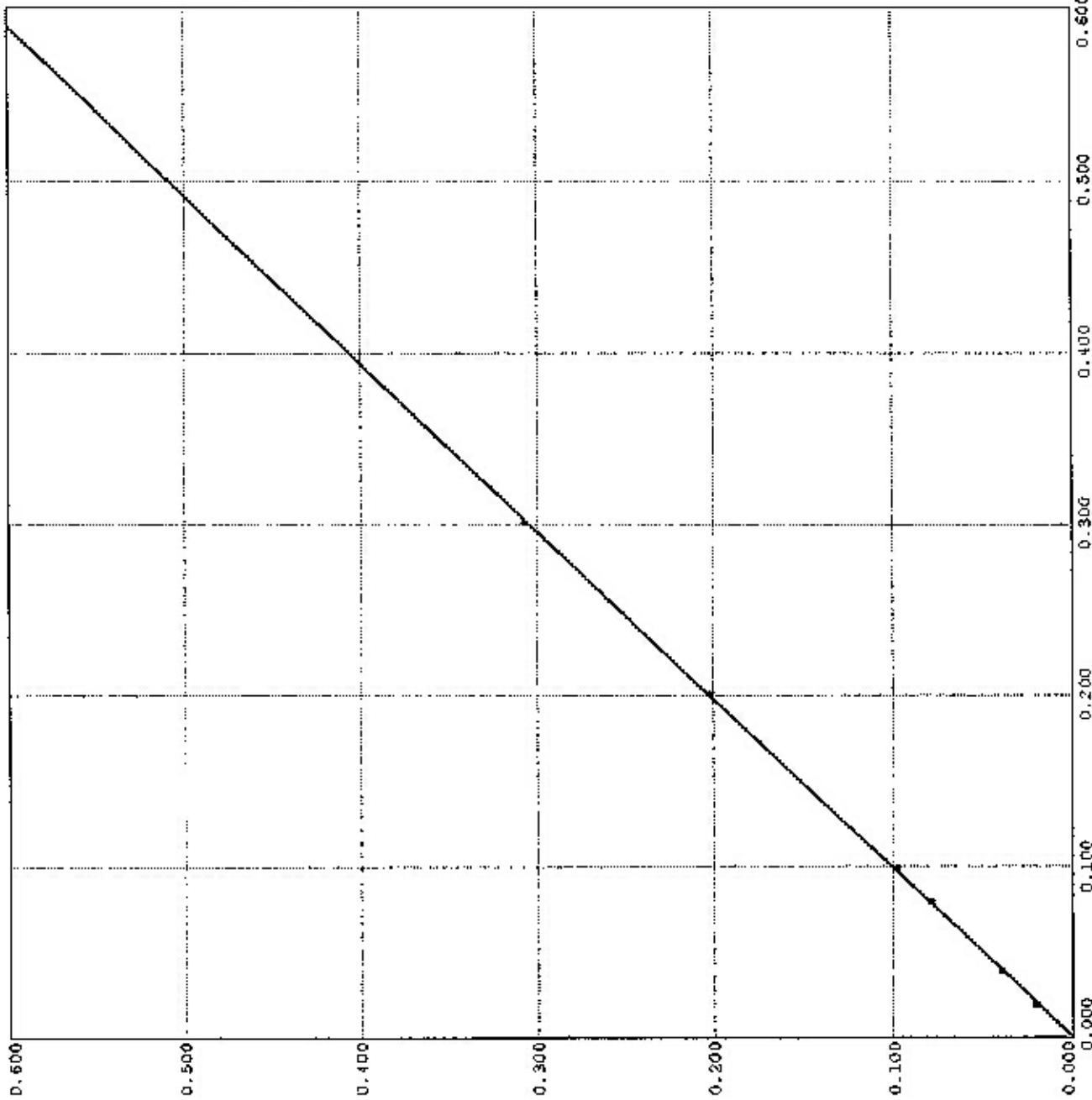
LOT #: D2012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

BLANK TEST	0.000	09:11	PASSED	09:10
INTERNAL STANDARD	0.078	09:11	VERIFIED	09:11
EXTERNAL STANDARD	0.000	09:12		09:12
BLANK TEST	0.000	09:13		09:13
SUBJECT SAMPLE	0.000	09:14		09:14
EXTERNAL STANDARD	0.079	09:14		09:14
BLANK TEST	0.000	09:15		09:15

COB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100695

Date: 07/15/2013
 Time: 13:33:07

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0213	0.0003
0.039	0.0405	0.0003
0.079	0.0798	0.0002
0.099	0.0986	0.0003
0.200	0.2022	0.0005
0.300	0.3075	0.0002

SLOPE = 1.018096
 R² = 0.999737

COB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100695

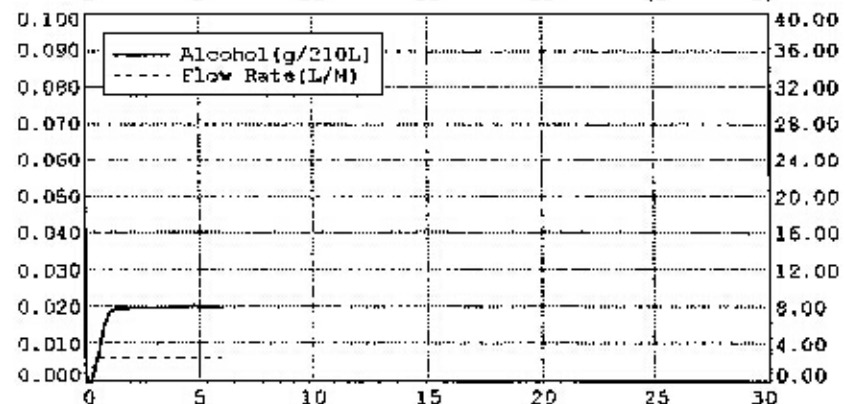
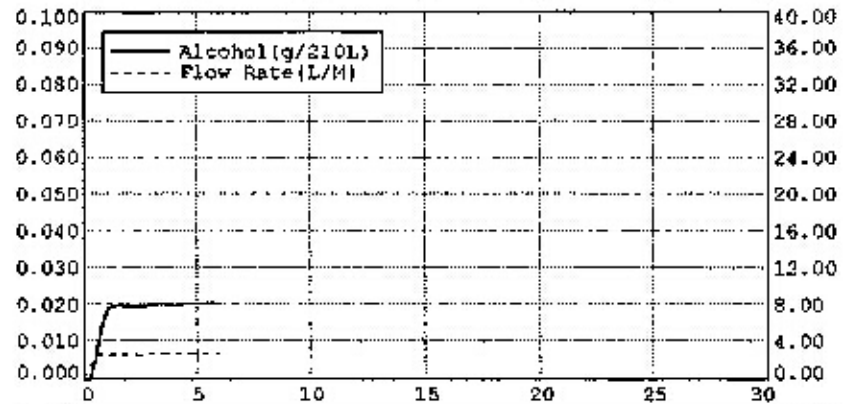
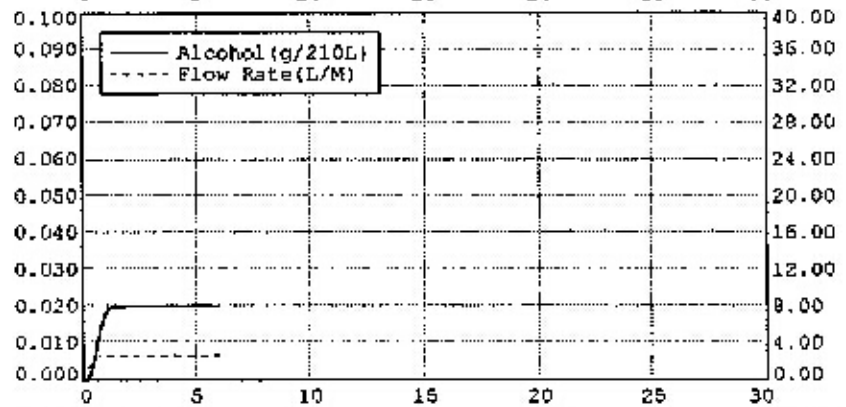
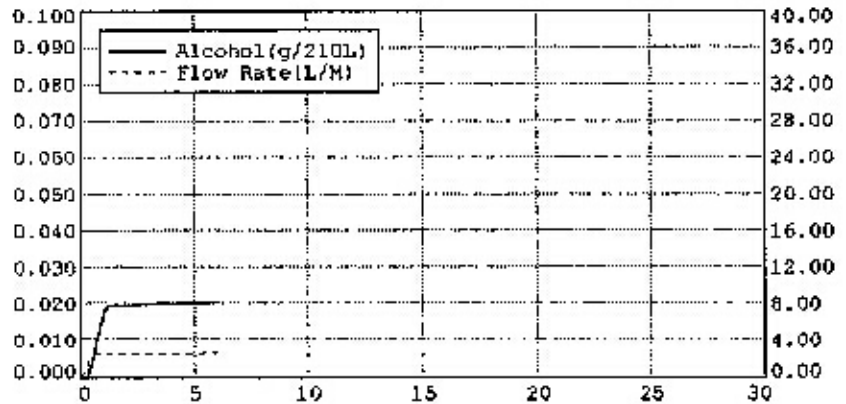
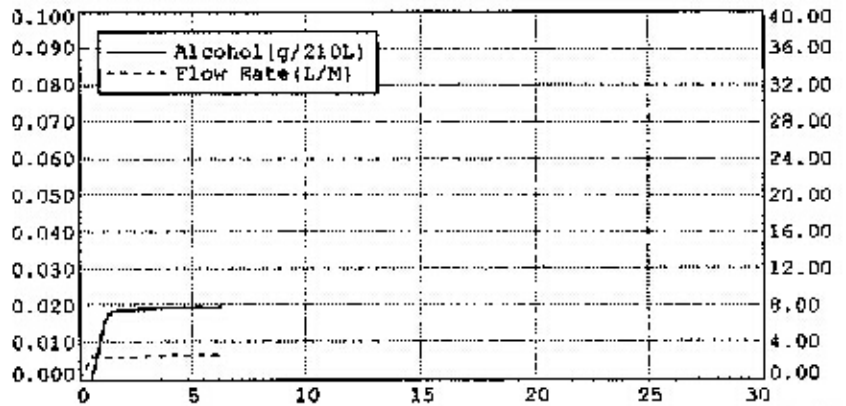
Date: 07/15/2013
Time: 13:33:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.79: 0.019
LOT #: D0813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:34
INTERNAL STANDARD	VERIFIED	13:34
EXTERNAL STANDARD	0.020	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.021	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.021	13:37
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.021	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.021	13:39
BLANK TEST	0.000	13:40

Average = 0.0213
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

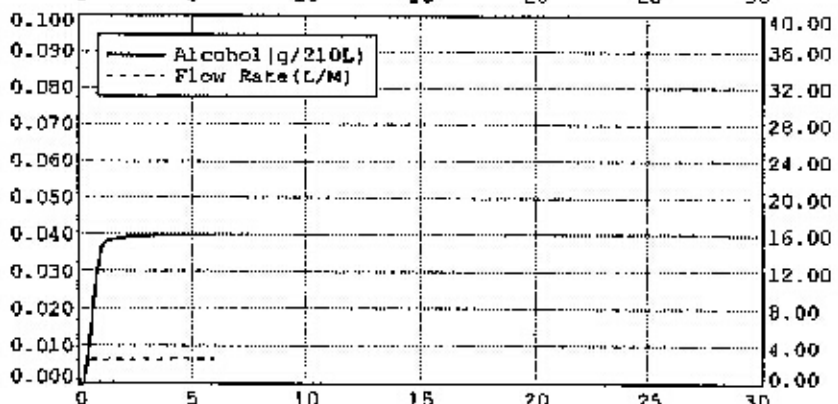
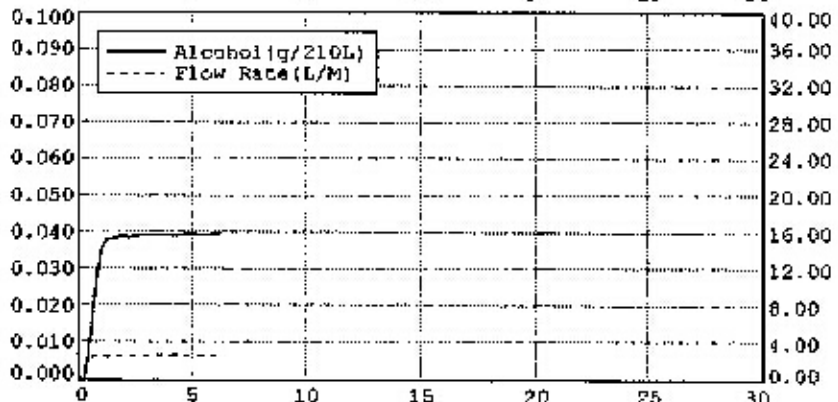
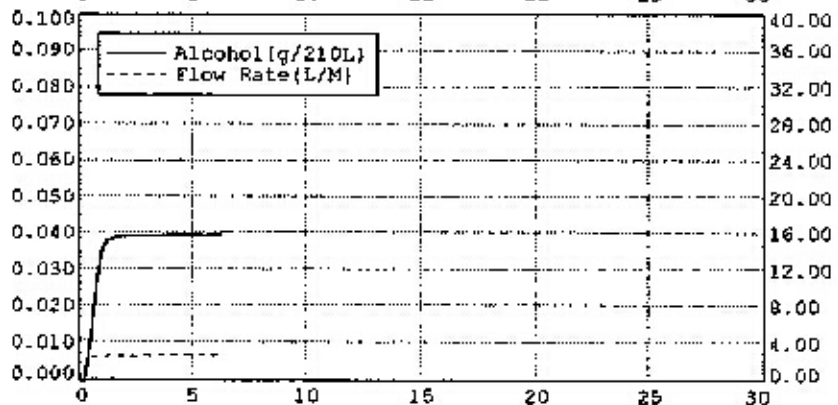
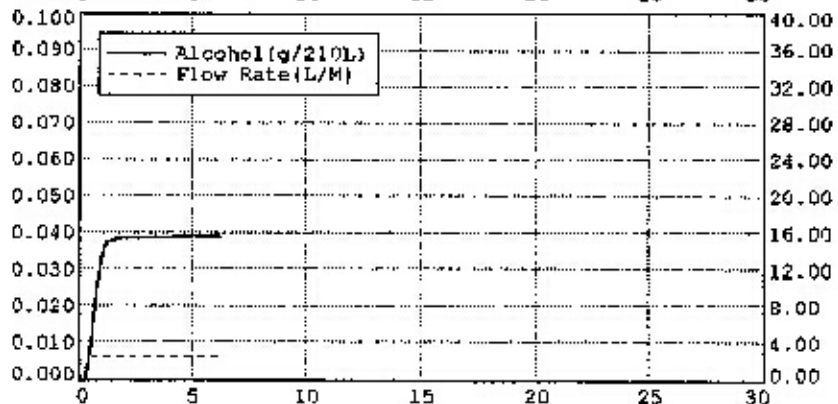
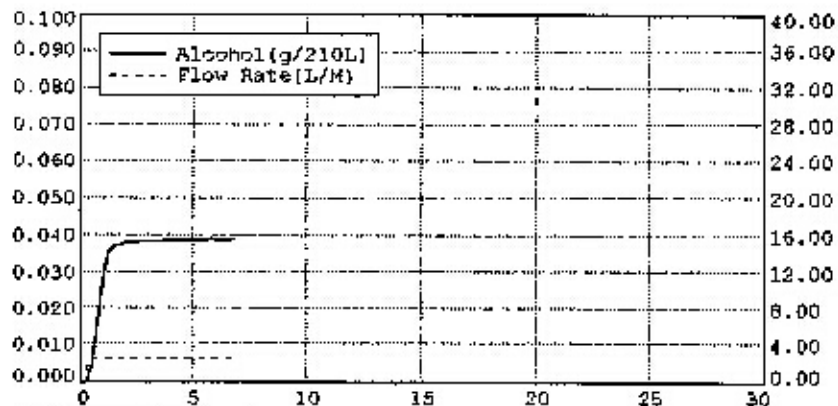
Alaska Department of Public Safety
 DATAMASTER dnt: 100695

Date: 07/15/2013
 Time: 13:44:43

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

BLANK TEST	0.000	13:46
INTERNAL STANDARD	VERIFIED	13:46
EXTERNAL STANDARD	0.040	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.040	13:48
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.040	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.040	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.040	13:51
BLANK TEST	0.000	13:52

Average = 0.0405
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dnt: 100695

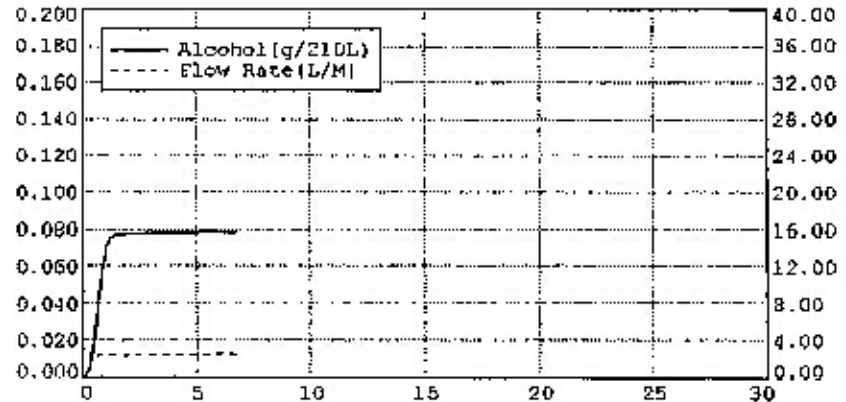
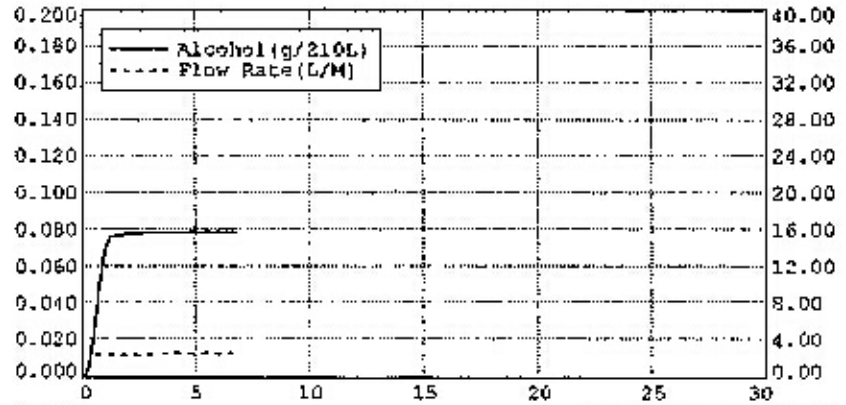
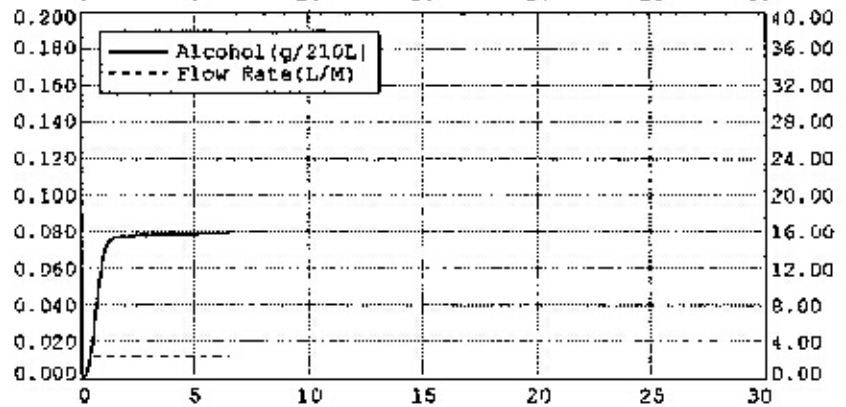
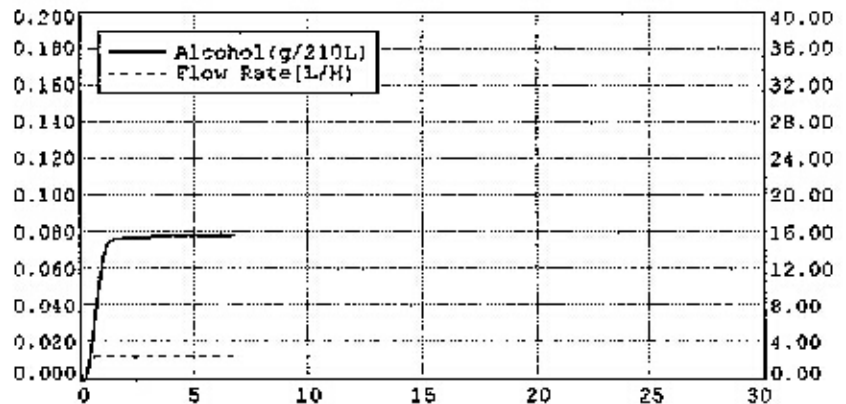
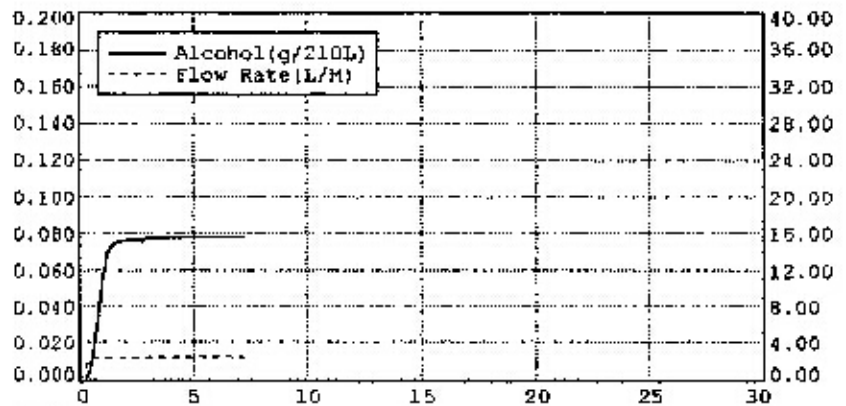
Date: 07/15/2013
Time: 13:58:06

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:59
INTERNAL STANDARD	VERIFIED	13:59
EXTERNAL STANDARD	0.079	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.079	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.079	14:02
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.079	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.080	14:04
BLANK TEST	0.000	14:05

Average = 0.0798
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100695

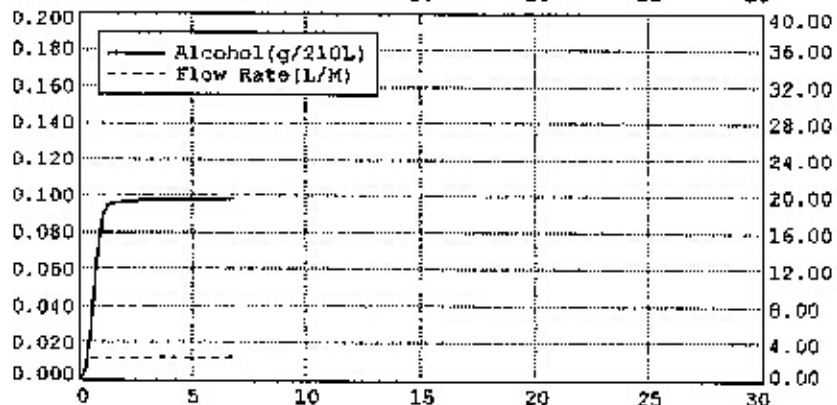
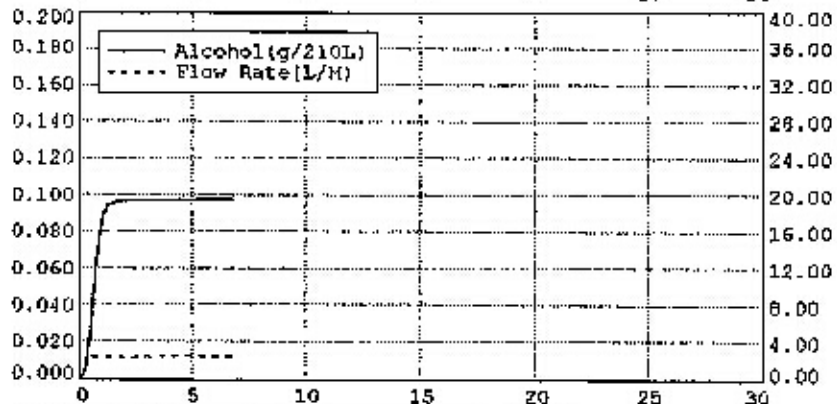
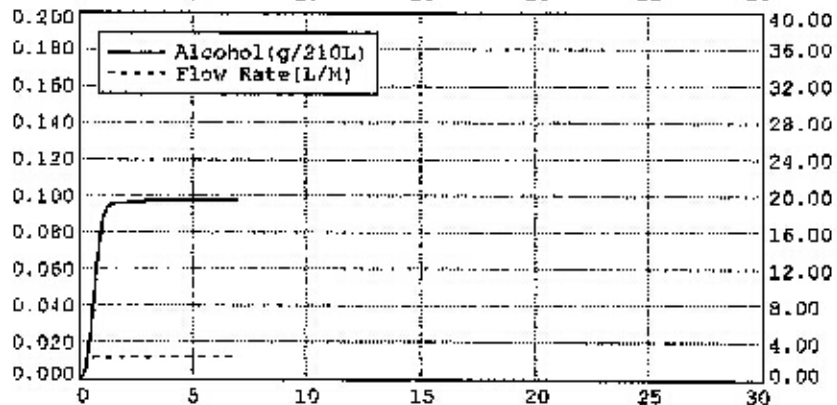
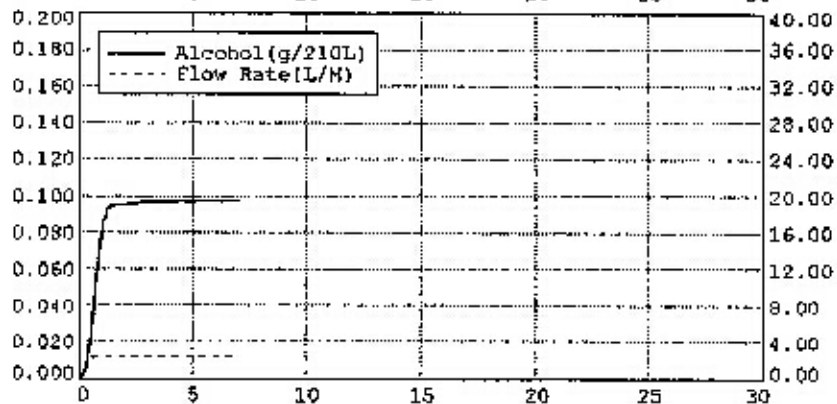
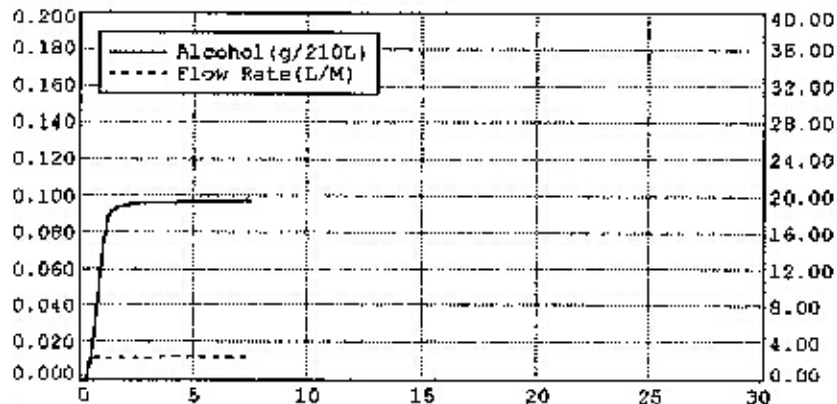
Date: 07/15/2013
Time: 14:19:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.80; 0.099
LOT #: 00913100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:21
EXTERNAL STANDARD	0.098	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.098	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.098	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.098	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.098	14:25
BLANK TEST	0.000	14:26

Average = 0.0986
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100695

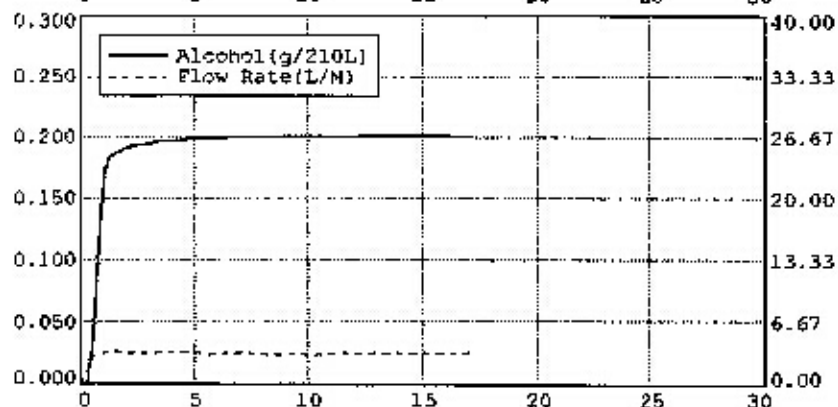
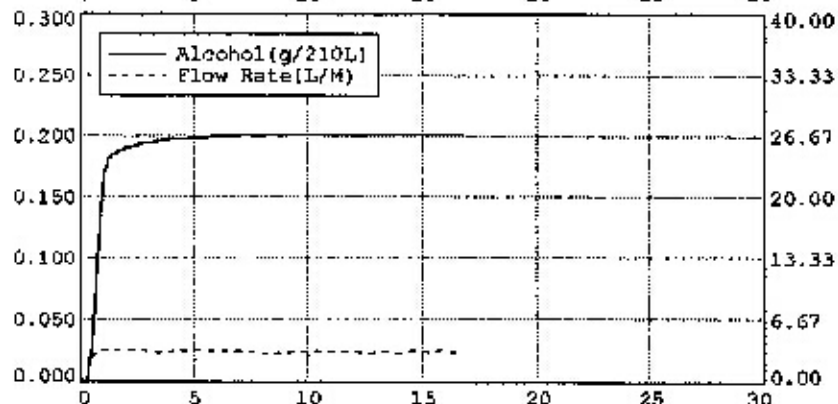
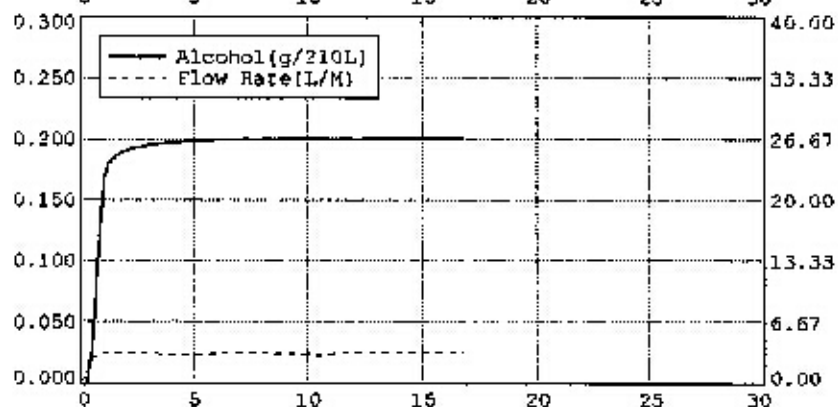
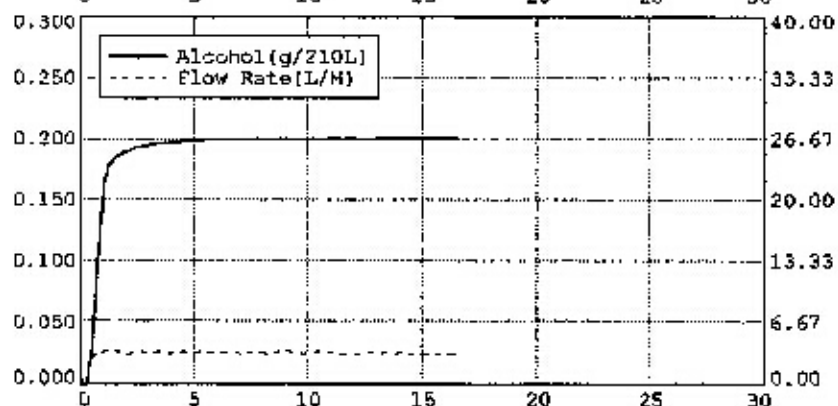
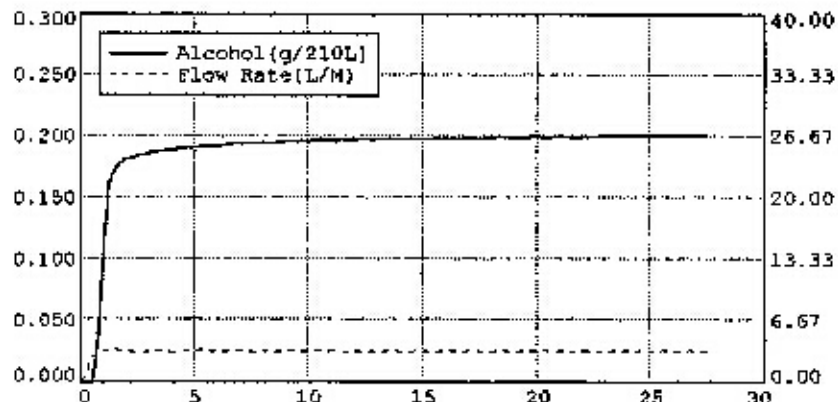
Date: 07/15/2013
Time: 14:29:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 12130
EXPIRATION: 08/10/2014

BLANK TEST	0.000	14:30
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.201	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.201	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.202	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.202	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.202	14:36
BLANK TEST	0.000	14:37

Average = 0.2022
Std Dev = 0.0095



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100695

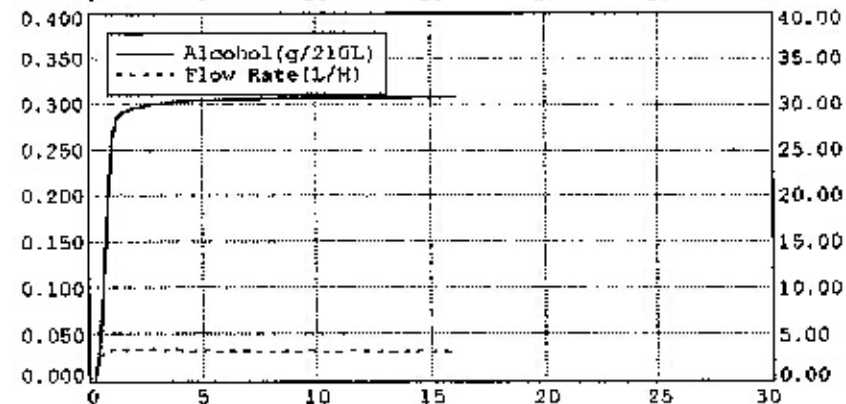
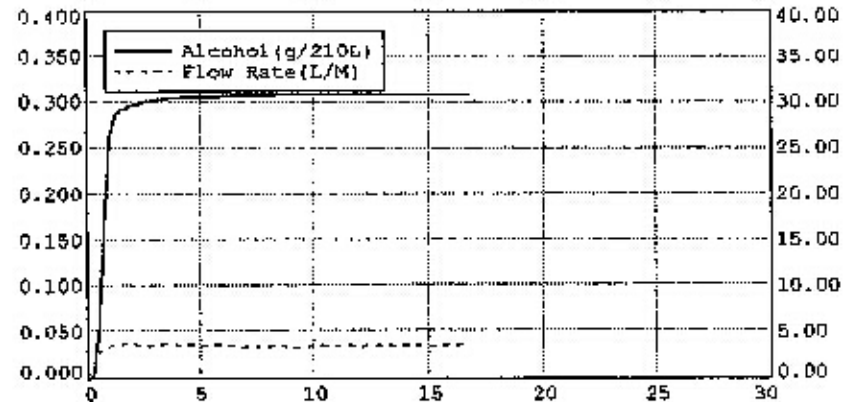
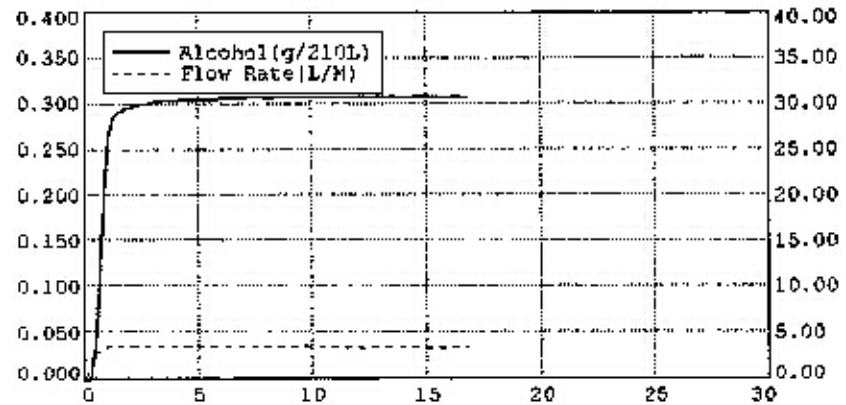
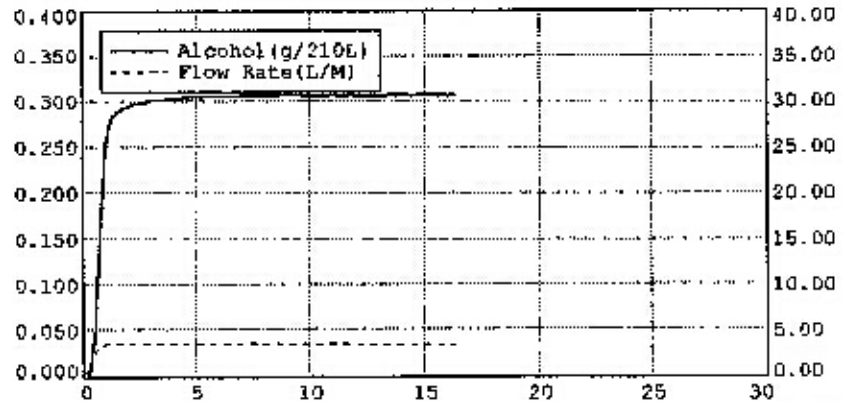
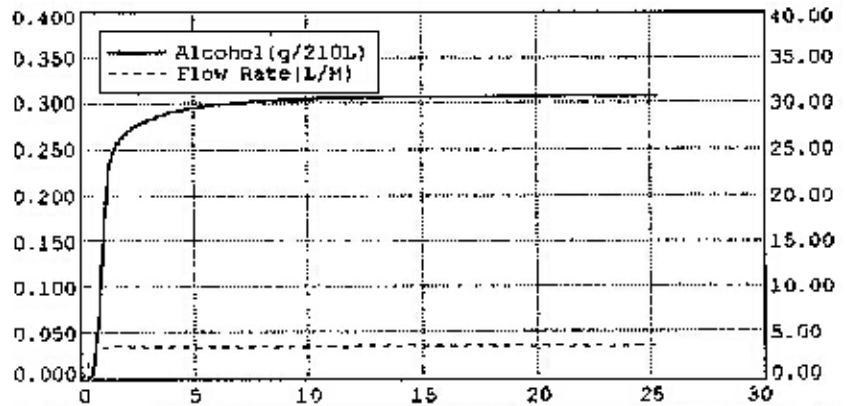
Date: 07/15/2013
 Time: 14:39:58

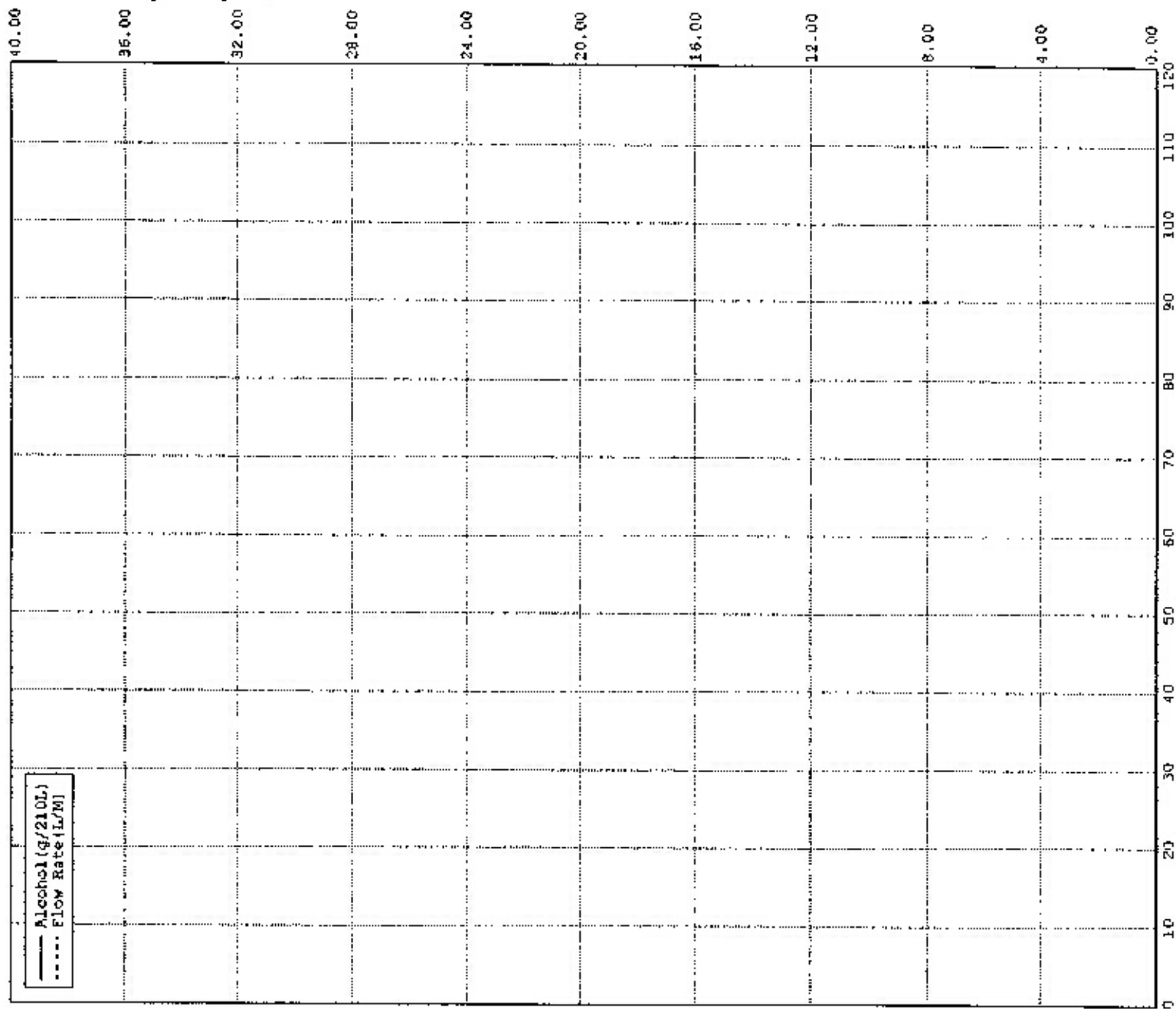
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.307	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.307	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.307	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.307	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.307	14:47
BLANK TEST	0.000	14:48

Average = 0.3075
 Std Dev = 0.0002





SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmv: 100695

Date: 07/17/2013
 Time: 07:58:19

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
 AAAA1

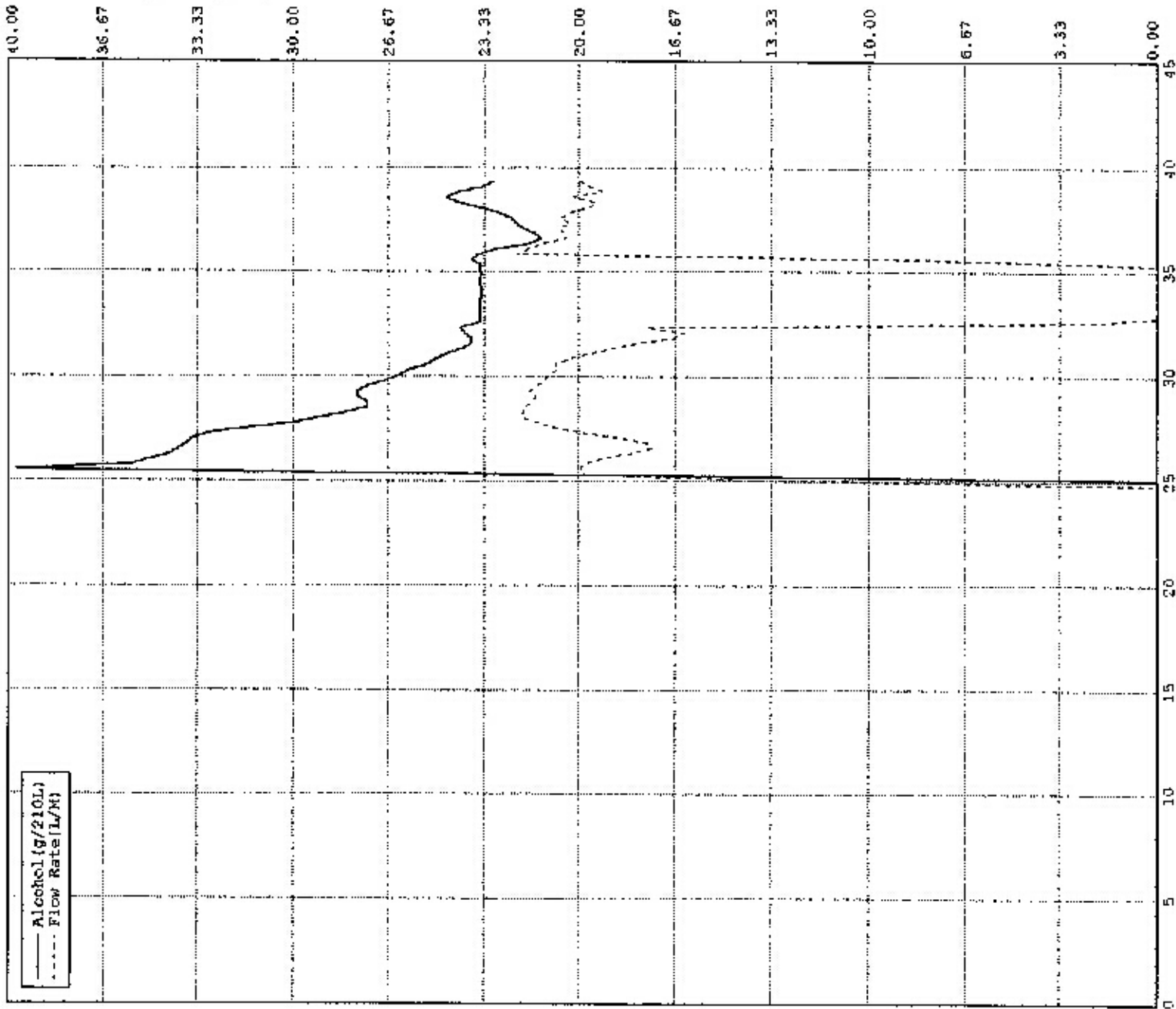
CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.56: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	07:59
BLANK TEST	0.000	07:59
INTERNAL STANDARD	VERIFIED	07:59
EXTERNAL STANDARD	0.080	07:59
BLANK TEST	0.000	08:00
SUBJECT SAMPLE	INCOMPLETE	08:02

COB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100695

Date: 07/17/2013
 Time: 08:06:16

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

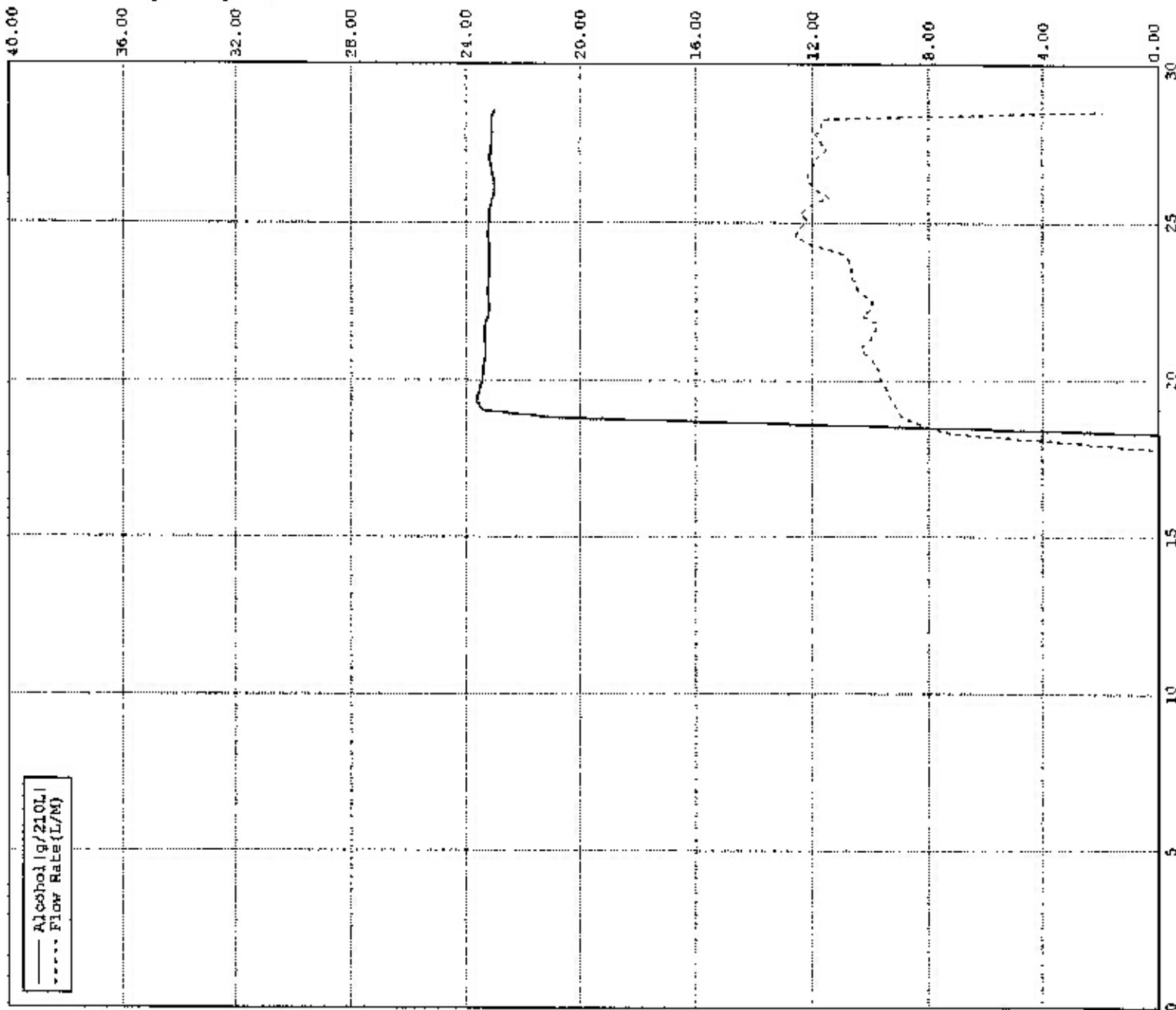
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.59: 0.079
 LOT #: 0201208DA1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
 BLANK TEST PASSED 08:11
 INTERNAL STANDARD VERIFIED 08:11
 EXTERNAL STANDARD 0.079 08:11
 BLANK TEST 0.000 08:12
 SUBJECT SAMPLE INVALID 08:14

CS



SUBJECT TEST

Alaska Department of Public Safety
 DAFMASTER dmt: 100695

Date: 07/17/2013
 Time: 08:16:23

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

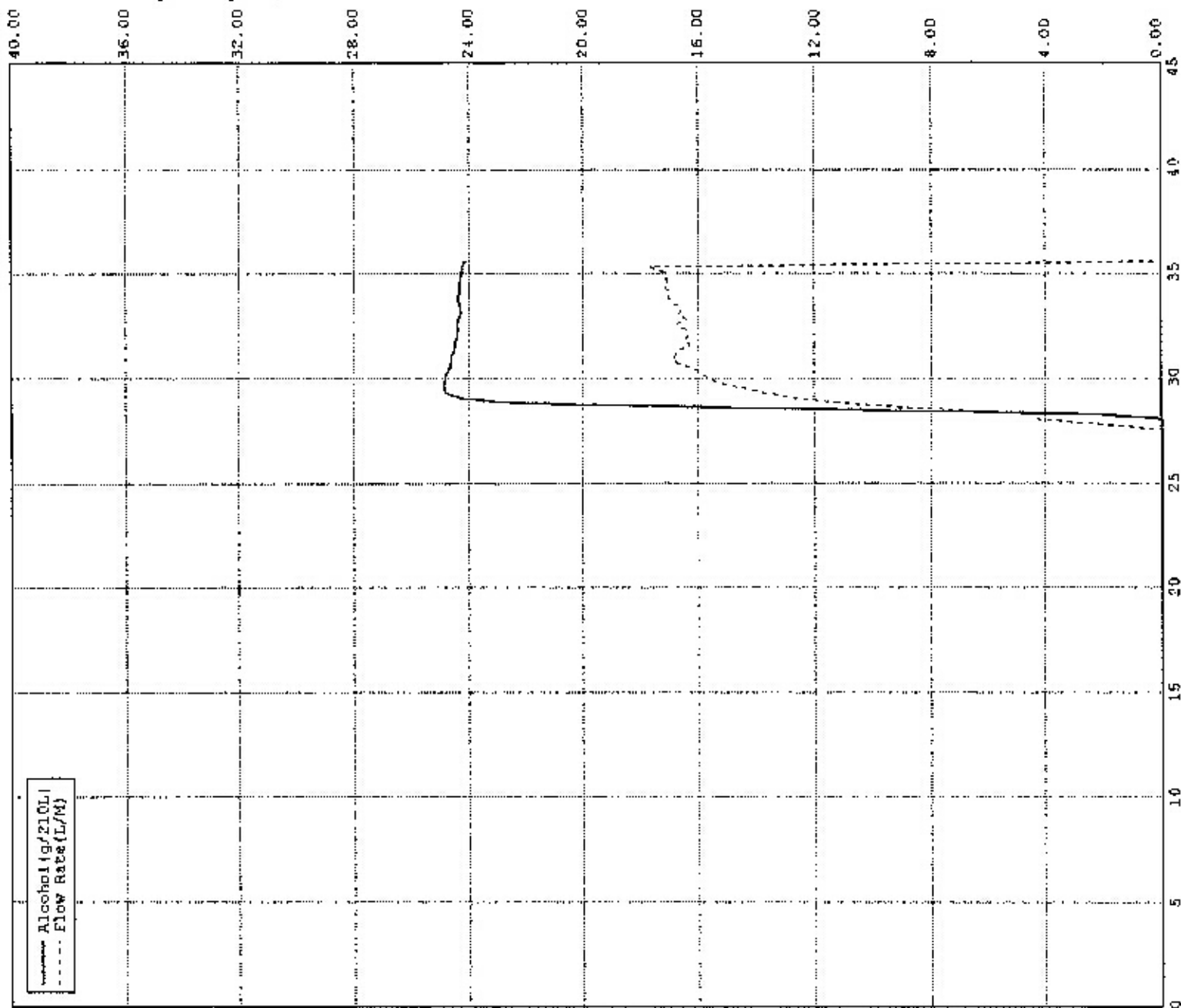
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 5237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.090
 TARGET AT 29.58: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:17
BLANK TEST	0.000	08:17
INTERNAL STANDARD	VERIFIED	08:17
$X_R = 0.111 (1.218)$		
EXTERNAL STANDARD	0.078	08:17
$X[1] = 0.0787 (0.0008)$	(0.0031)	
BLANK TEST	0.000	08:18
SUBJECT SAMPLE	INTERFERENCE	08:19
$X[1] = 0.1151 (-0.0202)$	(0.0028)	

CS



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100695

Date: 07/17/2013
 Time: 08:25:40

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-1FA

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

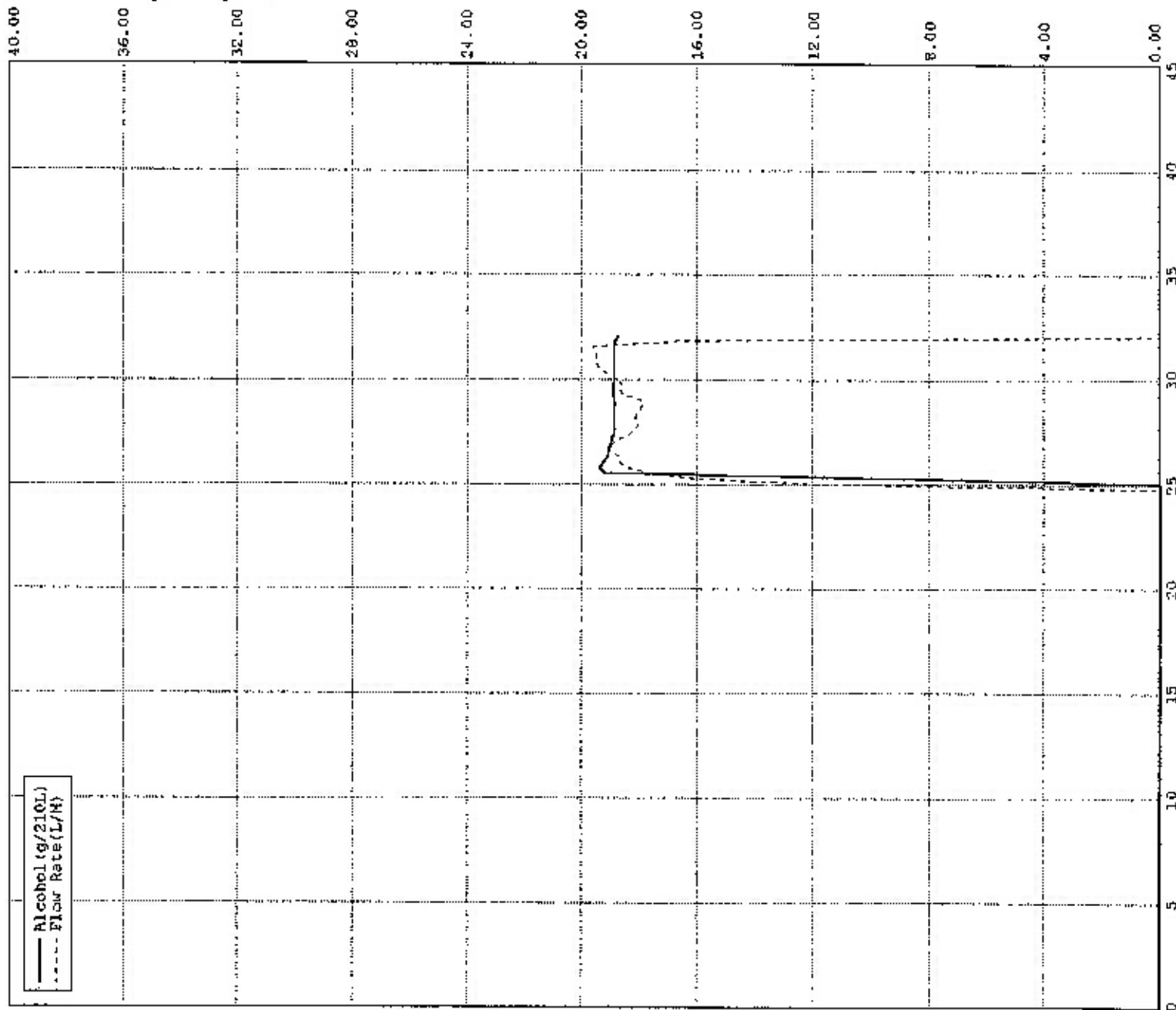
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.59: 0.079
 ICF #: 02012090A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 08:27
 BLANK TEST 0.000 08:27
 INTERNAL STANDARD VERIFIED 08:27
 XG = 0.111 (2.10%)
 EXTERNAL STANDARD 0.079 08:27
 X[I] = 0.0796 (0.0016) (0.0031)
 BLANK TEST 0.000 08:28
 SUBJECT SAMPLE INTERFERENCE 08:29
 X[I] = 0.1209 (-0.0218) (0.0031)

CS



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER Unit: 100695

 Date: 07/18/2013
 Time: 13:31:00

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

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

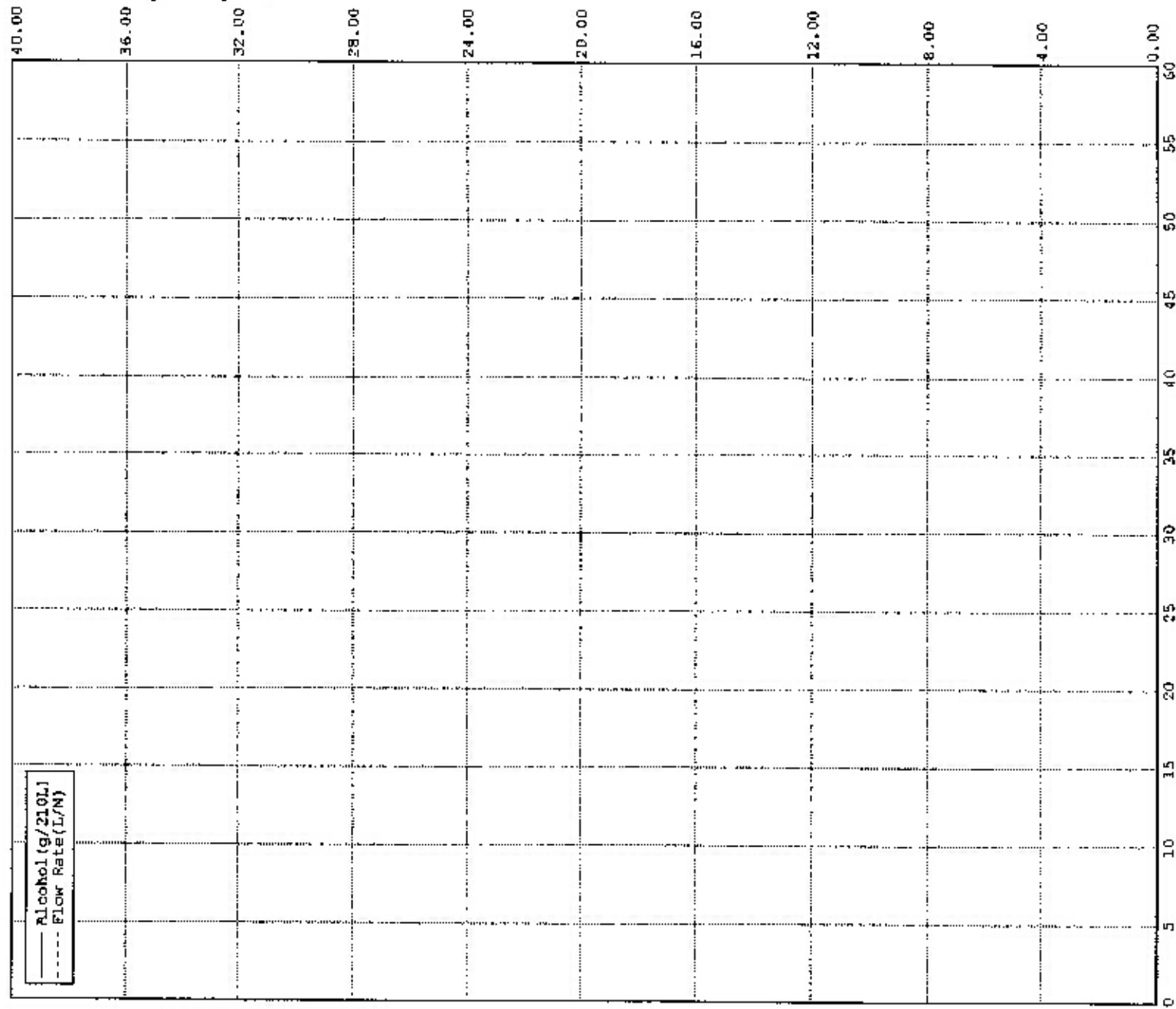
DEPT/AGENCY:
 AAAL

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 MEMINAL: 0.090
 TARGET AT 29.61: 0.079
 LOT #: 02012080AL
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:32
BLANK TEST	0.000	13:32
INTERNAL STANDARD	VERIFIED	13:32
$X_G = 0.111$ (1.53%)		
EXTERNAL STANDARD	0.079	13:32
$X[1] = 0.0795$ (0.0018) (0.0032)		
BLANK TEST	0.000	13:33
SUBJECT SAMPLE (Vol=2.14L)	0.094	13:34
$X[1] = 0.0940$ (0.0012) (0.0007)		
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.079	13:35
$X[1] = 0.0794$ (0.0015) (0.0020)		
BLANK TEST	0.000	13:36

COB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER Gmt: 100695

Date: 07/18/2013
 Time: 13:39:03

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

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

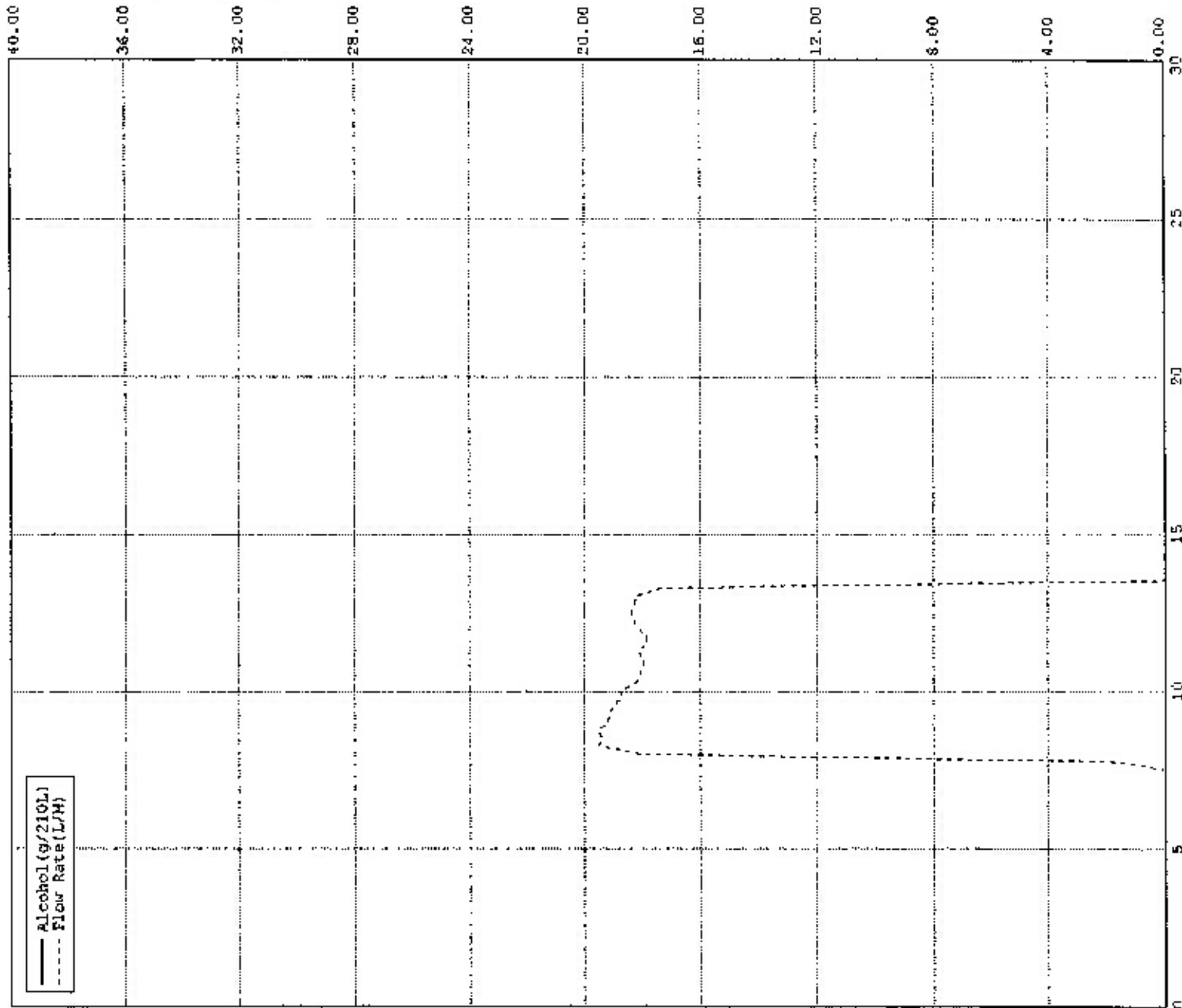
DEPT/AGENCY:
 AAA1

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.51: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 13:50
 BLANK TEST 0.000 13:50
 INTERNAL STANDARD VERIFIED 13:50
 EXTERNAL STANDARD 0.079 13:50
 BLANK TEST 0.000 13:51

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100695

Date: 07/18/2013
 Time: 14:47:45

SUBJECT NAME:
 TEST TEST
 LICENSE #: NONDRINKING

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

DEPT/AGENCY:
 AAAA
 CASE/RSPORT: 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	RESULT	TIME
BLANK TEST	0.000	14:48
INTERNAL STANDARD	0.079	14:49
EXTERNAL STANDARD	0.000	14:50
BLANK TEST	0.000	14:50
SUBJECT SAMPLE	0.000	14:51
BLANK TEST	0.079	14:51
EXTERNAL STANDARD	0.000	14:52

CS

Final page for report

\

\\ANCSCLSAN01\JTRAX\CASEDOCS\B-100695\B-100695_ECF-20140

2/12/2014