

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100365 Analyst Colleen O'Bryant Start Date 6/20/2012
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 ILMO Lot 07611020A5 Exp 03/01/2013ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2014iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/20131. Simulator S/N DR4163 Date Calibrated 08/18/2011vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/20131. Simulator S/N SD 1176 Date Calibrated 08/17/2011

5. Functional Tests (attached)

a. Incomplete b. Invalid c. Interference i. Acetone - Mnf Guth Lot 11250 Level 0.100 Exp 12/06/20131. Simulator S/N SD 1199 Date Calibrated 01/11/2013ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 07/06/20131. Simulator S/N DR 6267 Date Calibrated 01/10/2012iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/20131. Simulator S/N SD 1202 Date Calibrated 08/17/2011d. 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 06/29/2012

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 06/26/2012
Time: 07:50:12

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 48.0°C PASSED

PUMP INFO

Flow Rate = 4.589 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

COB 2/19

Technician Screen

DATAMASTER dmt: 100365

Date: 06/26/2012
Time: 8:06 AM

Temperatures (°C)

Sample Cell: 49.0°C
Breath Tube: 46.6°C

Current Barometer 29.4 in
Volume (Ltr) 1.59

Settings

Lamp: 2.34 V
Bias: 80 V
Cooler: 1.89 V
Chopper: 517 Hz

Voltages (V)

Flow: 1.04 V
Detector: 0.051 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
 DATAMASTER dmt: 100365

Date: 06/26/2012
 Time: 08:08:08

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

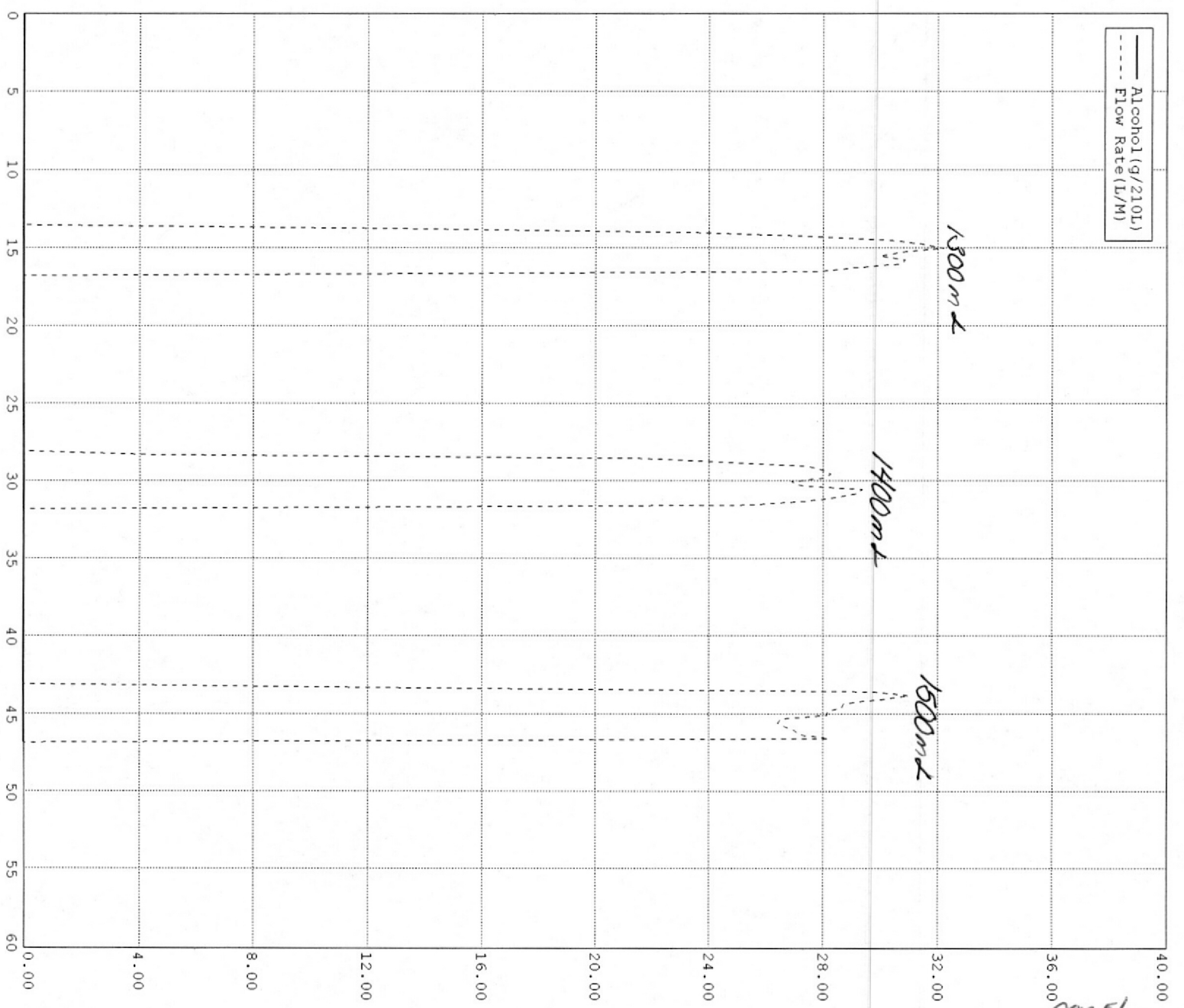
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.42: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:09
BLANK TEST	0.000	08:09
INTERNAL STANDARD	VERIFIED	08:10
EXTERNAL STANDARD	0.078	08:10
BLANK TEST	0.000	08:11
SUBJECT SAMPLE	0.000	08:12
BLANK TEST	0.000	08:13
EXTERNAL STANDARD	0.080	08:13
BLANK TEST	0.000	08:14

CSB



LINEARITY CHECK

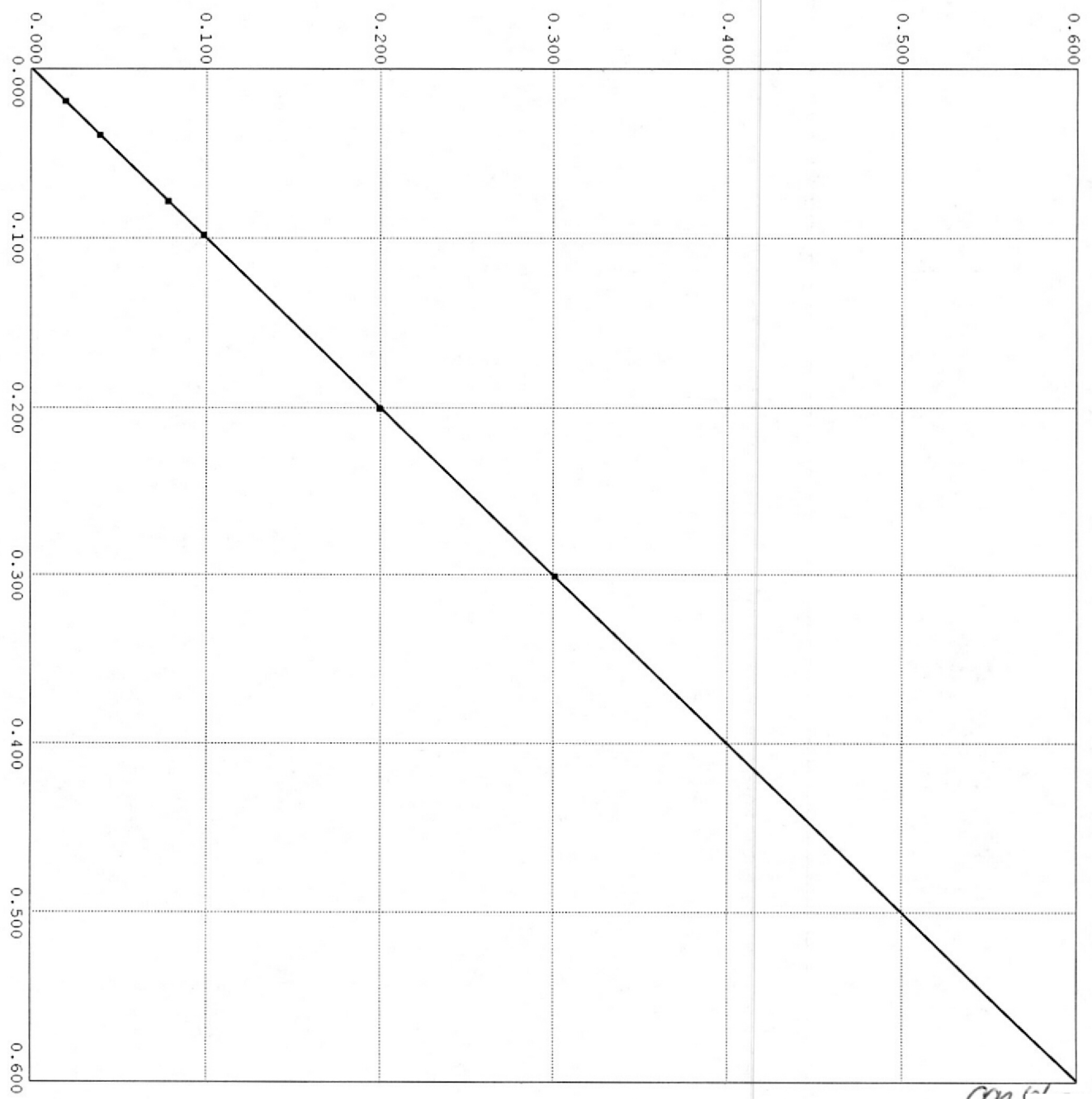
Alaska Department of Public Safety
 DATAMASTER dmt: 100365

Date: 06/26/2012
 Time: 08:32:12

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0205	0.0004
0.039	0.0401	0.0003
0.078	0.0791	0.0007
0.098	0.0995	0.0013
0.200	0.2004	0.0009
0.300	0.3017	0.0011

SLOPE = 1.000143
 R² = 0.999981



CRB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100365

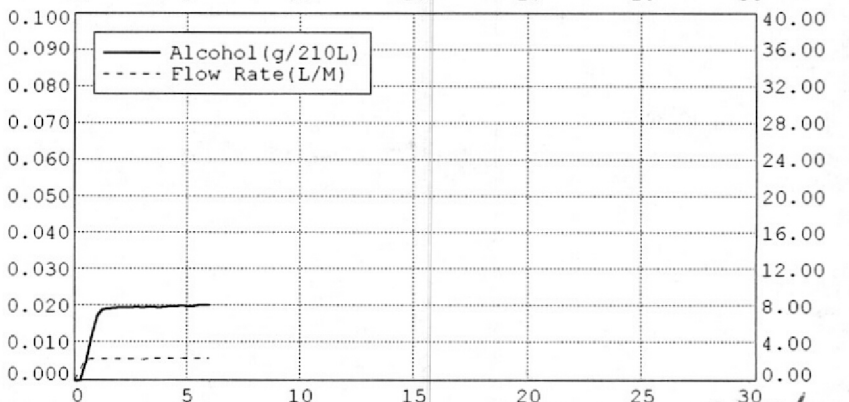
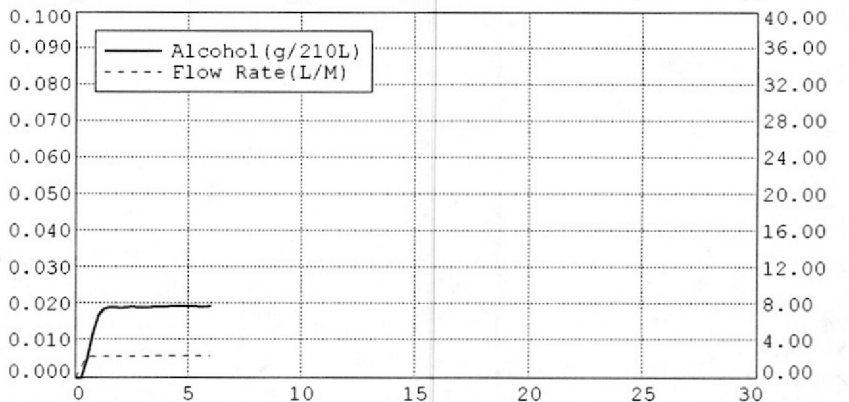
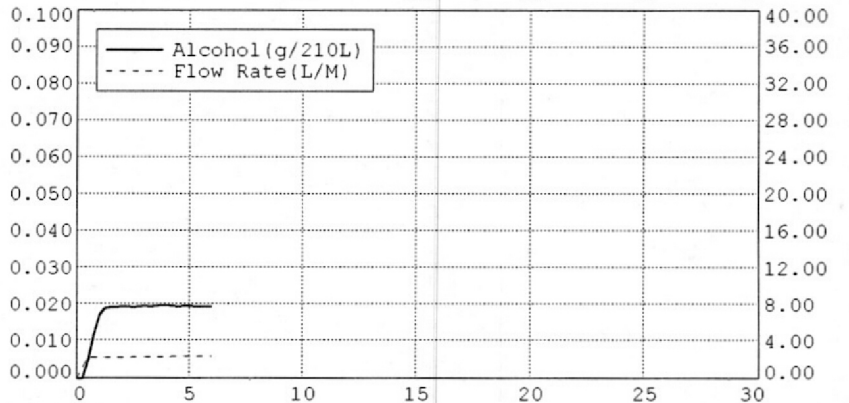
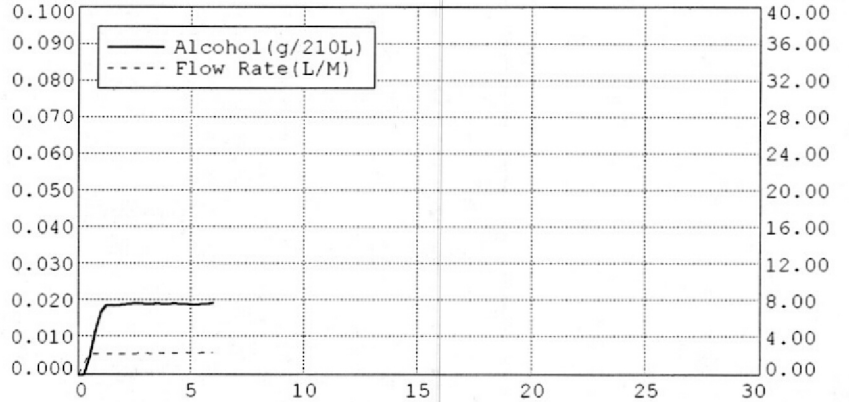
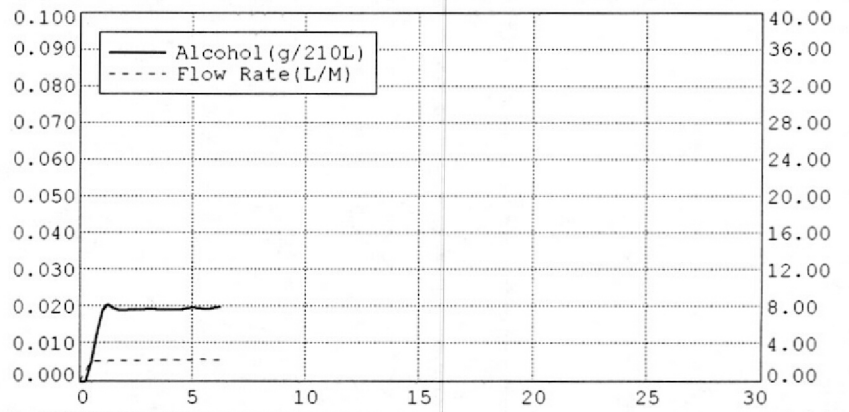
Date: 06/26/2012
Time: 08:32:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.41: 0.019
LOT #: ~~0761108045~~ 0761102045 00047/L/12
EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:33
INTERNAL STANDARD	VERIFIED	08:33
EXTERNAL STANDARD	0.020	08:33
BLANK TEST	0.000	08:34
EXTERNAL STANDARD	0.020	08:34
BLANK TEST	0.000	08:35
EXTERNAL STANDARD	0.020	08:35
BLANK TEST	0.000	08:36
EXTERNAL STANDARD	0.020	08:36
BLANK TEST	0.000	08:37
EXTERNAL STANDARD	0.021	08:37
BLANK TEST	0.000	08:38

Average = 0.0205
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100365

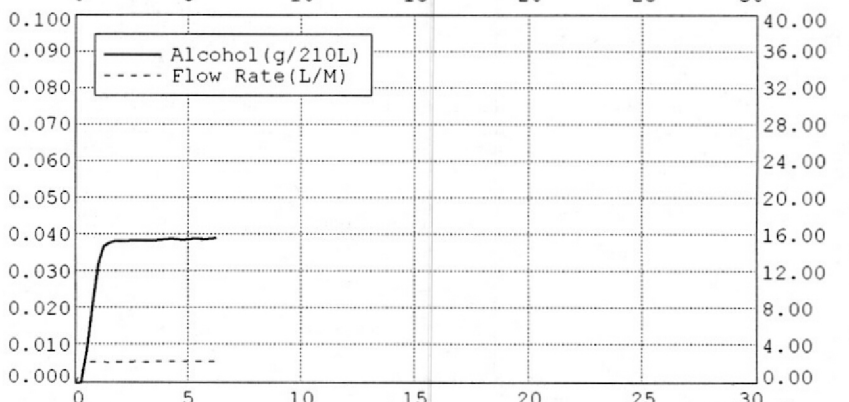
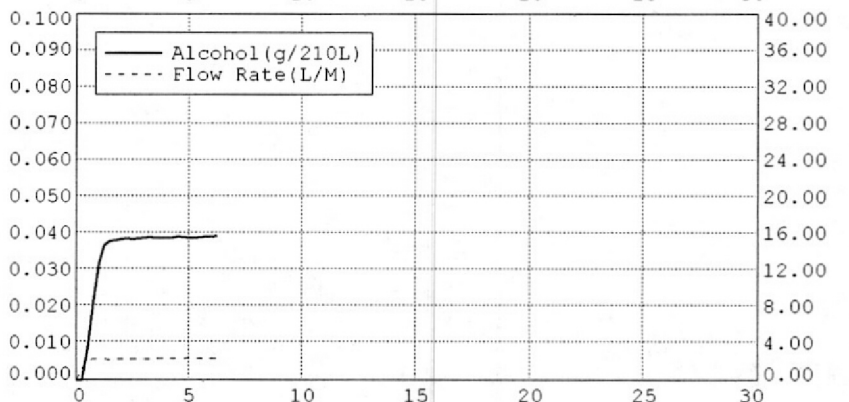
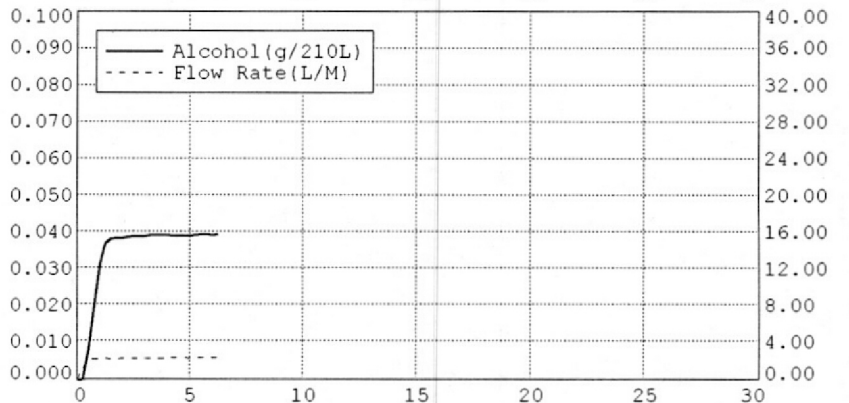
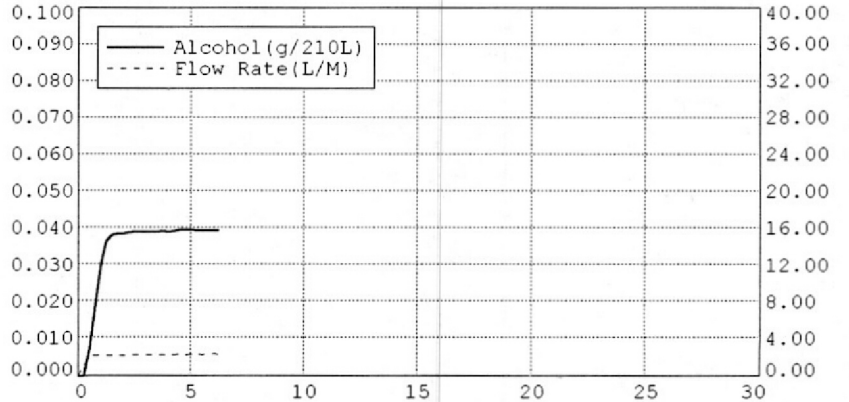
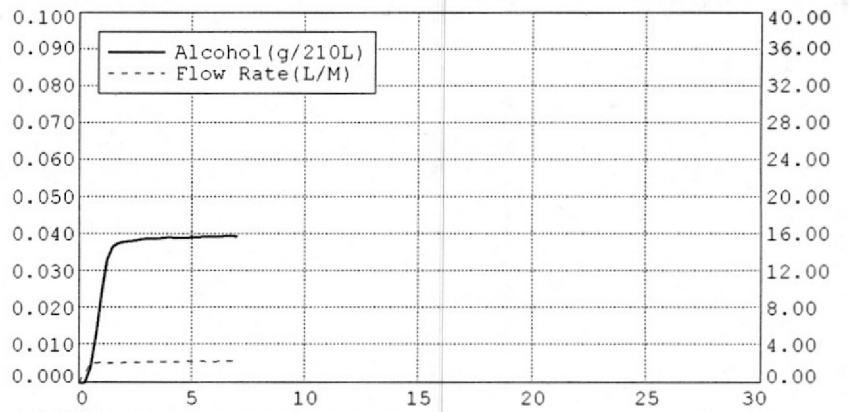
Date: 06/26/2012
Time: 08:40:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.42: 0.039
LOT #: ~~076111040A4~~ ~~076110043~~ 07611040A4
EXPIRATION: 03/01/2013 ^{COS 7/2/12}

BLANK TEST	0.000	08:42
INTERNAL STANDARD	VERIFIED	08:42
EXTERNAL STANDARD	0.040	08:42
BLANK TEST	0.000	08:43
EXTERNAL STANDARD	0.040	08:43
BLANK TEST	0.000	08:44
EXTERNAL STANDARD	0.040	08:44
BLANK TEST	0.000	08:45
EXTERNAL STANDARD	0.039	08:45
BLANK TEST	0.000	08:46
EXTERNAL STANDARD	0.039	08:46
BLANK TEST	0.000	08:47

Average = 0.0401
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

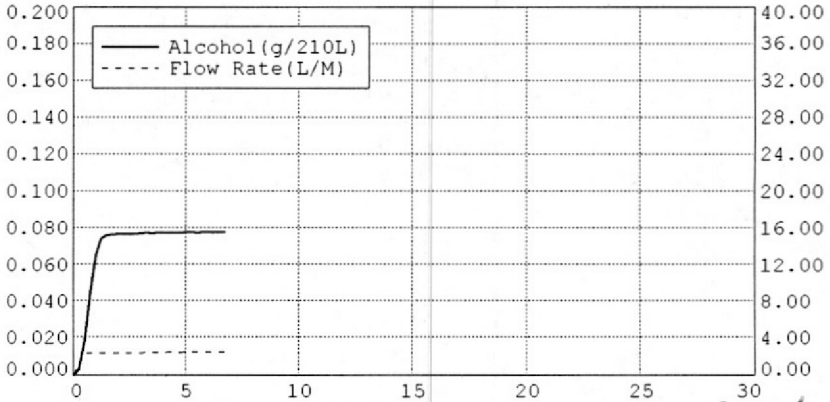
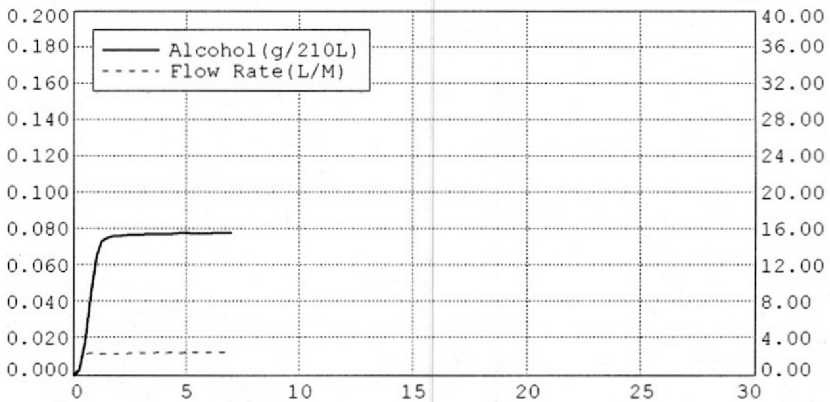
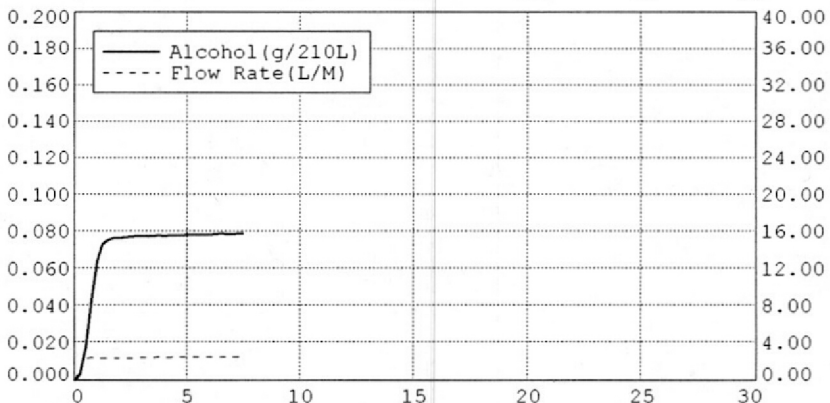
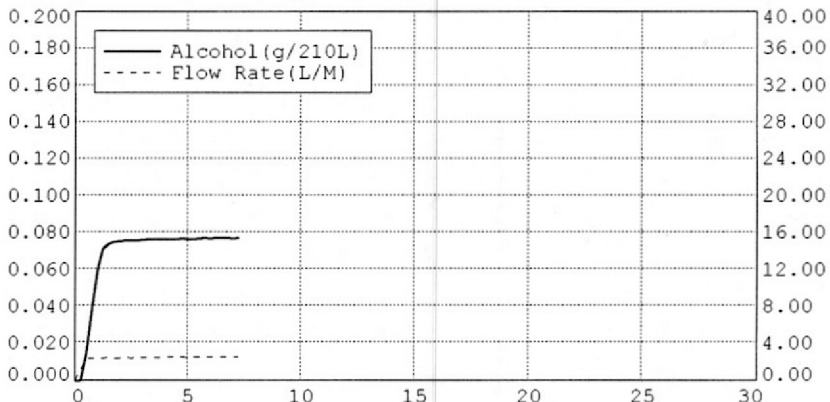
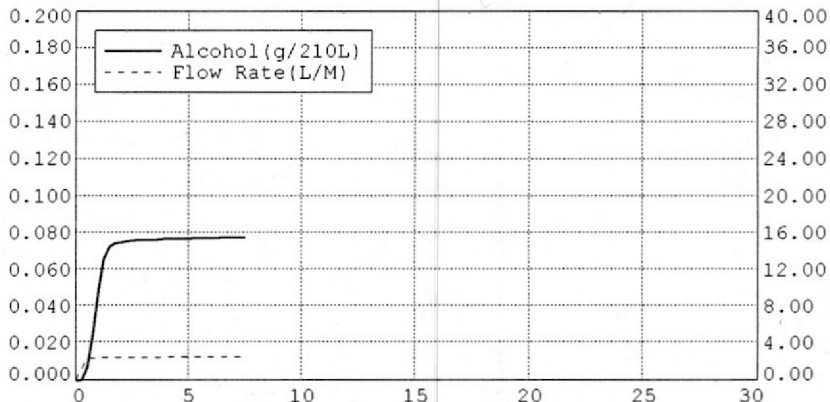
Alaska Department of Public Safety
 DATAMASTER dmt: 100365

Date: 06/26/2012
 Time: 09:08:03

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.42: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	09:09
INTERNAL STANDARD	VERIFIED	09:09
EXTERNAL STANDARD	0.079	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.078	09:10
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.080	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.079	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.079	09:13
BLANK TEST	0.000	09:14

Average = 0.0791
 Std Dev = 0.0007



LINEARITY CHECK: Control Test 4

 Alaska Department of Public Safety
 DATAMASTER dmt: 100365

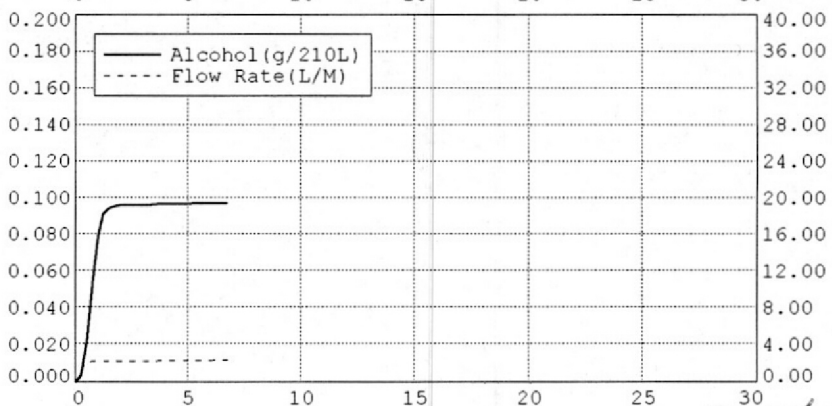
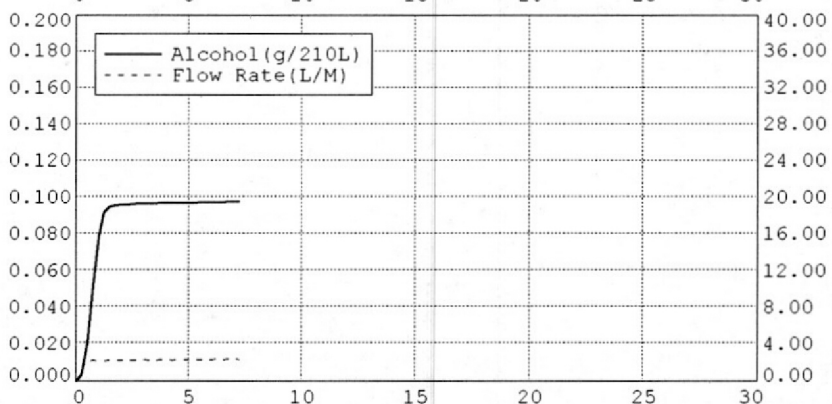
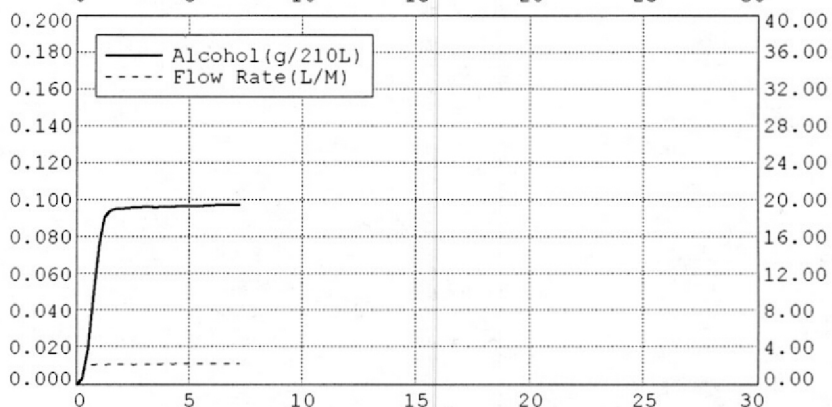
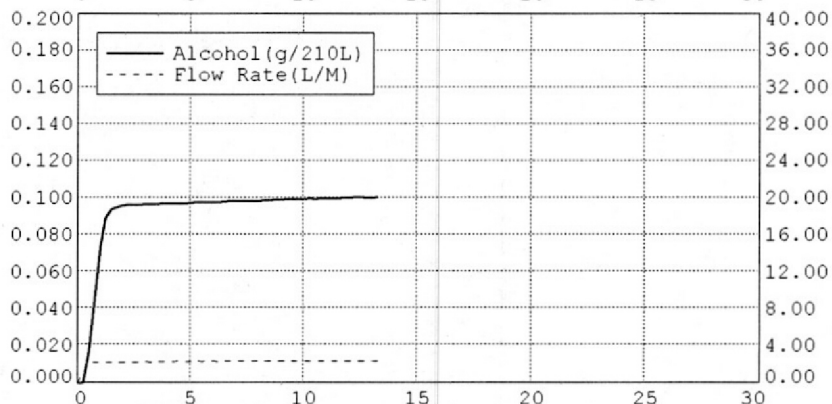
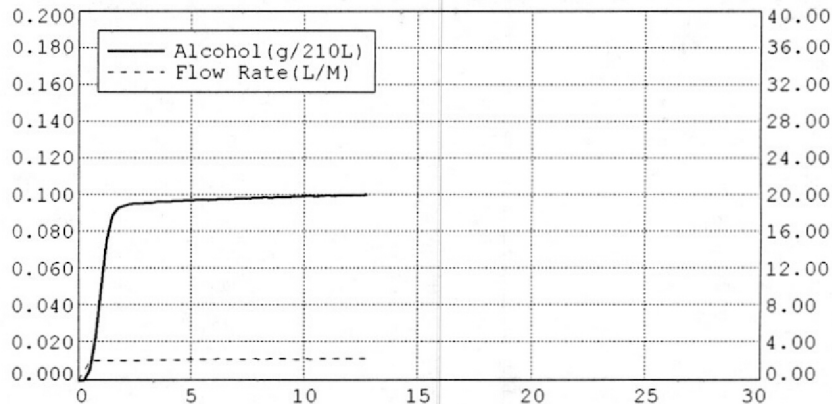
Date: 06/26/2012
 Time: 10:02:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.43: 0.098
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:14
EXTERNAL STANDARD	0.100	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.101	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.098	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.098	10:18
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.098	10:19
BLANK TEST	0.000	10:20

Average = 0.0995
 Std Dev = 0.0013



LINEARITY CHECK: Control Test 5

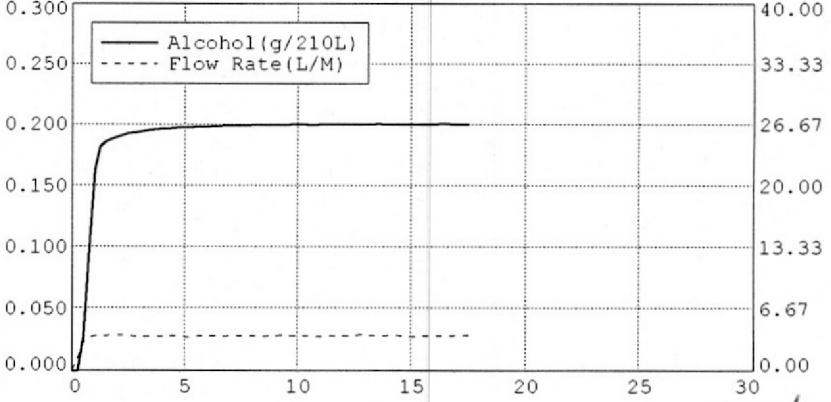
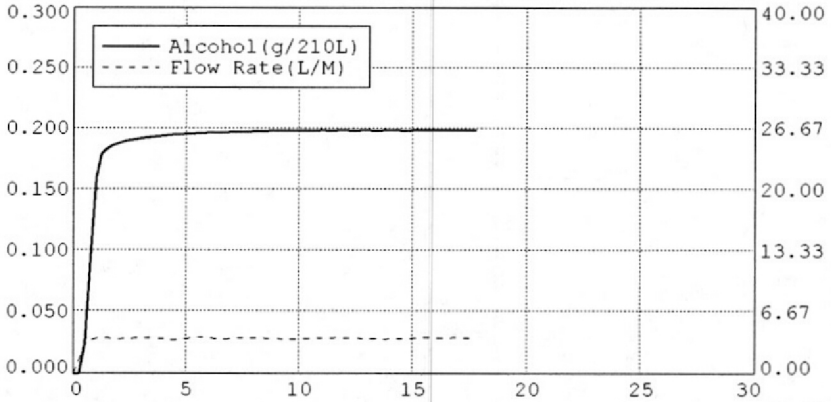
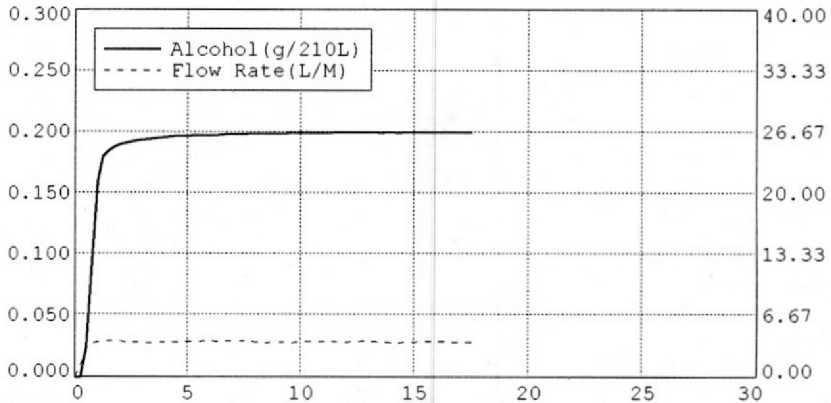
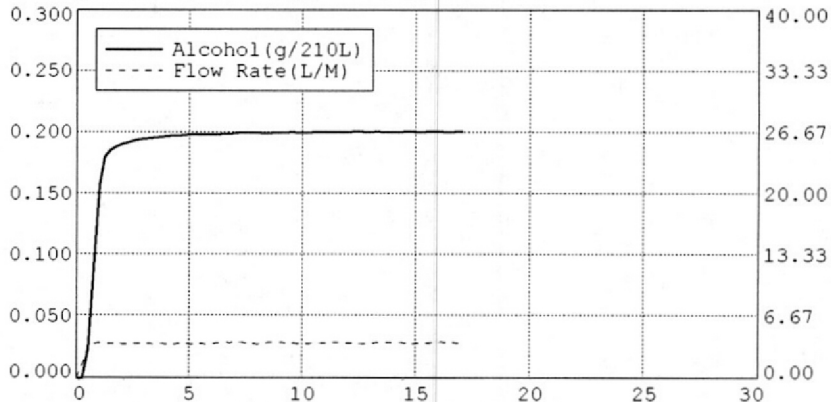
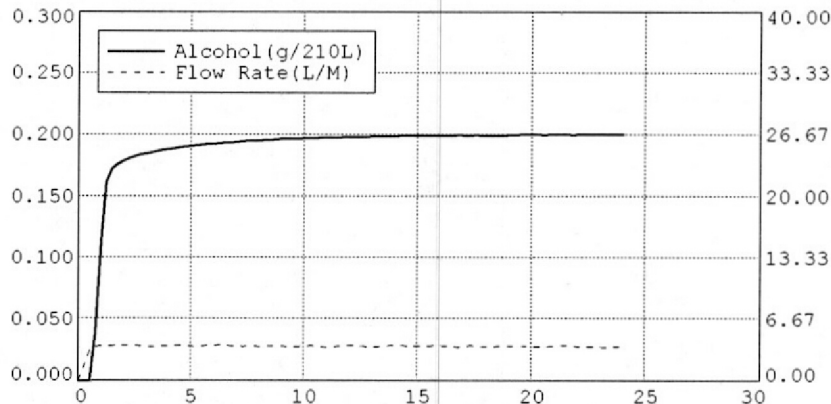
Alaska Department of Public Safety
 DATAMASTER dmt: 100365

Date: 06/26/2012
 Time: 10:25:50

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 11120
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	10:26
INTERNAL STANDARD	VERIFIED	10:27
EXTERNAL STANDARD	0.201	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.201	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.200	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.199	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.200	10:32
BLANK TEST	0.000	10:33

Average = 0.2004
 Std Dev = 0.0009



LINEARITY CHECK: Control Test 6

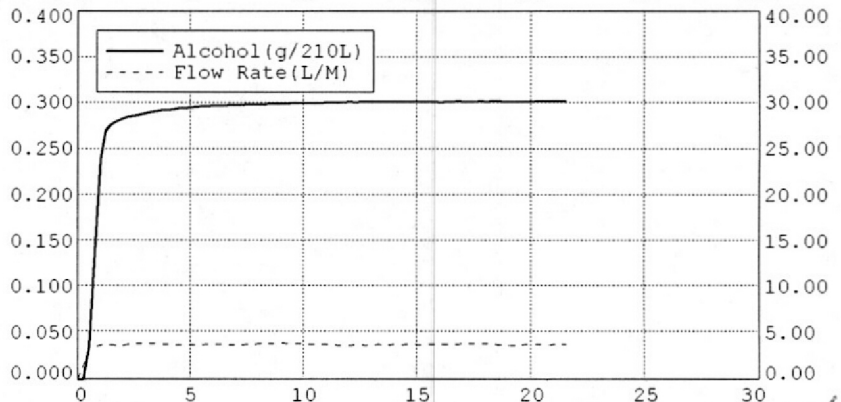
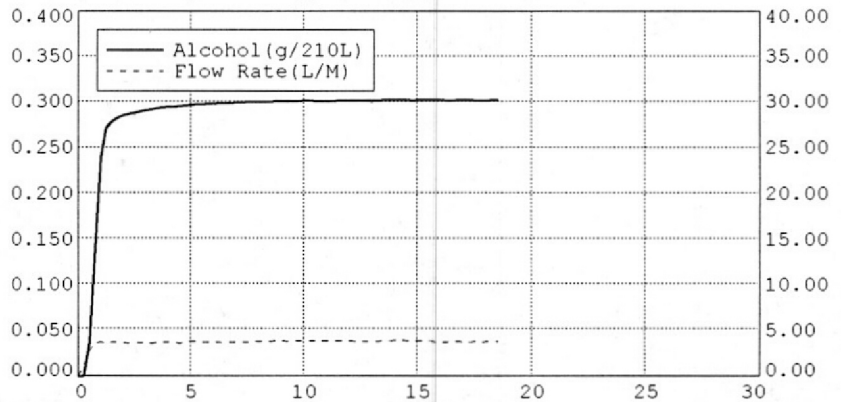
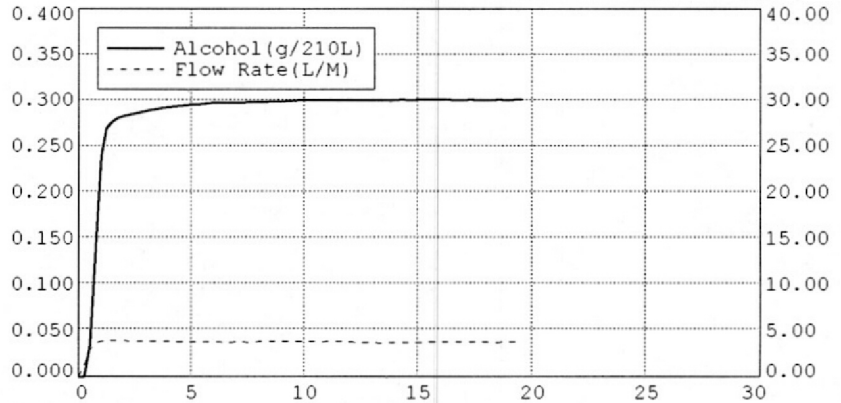
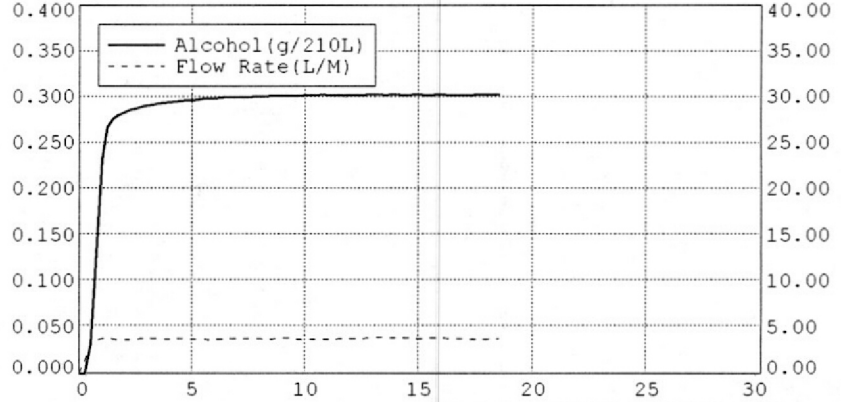
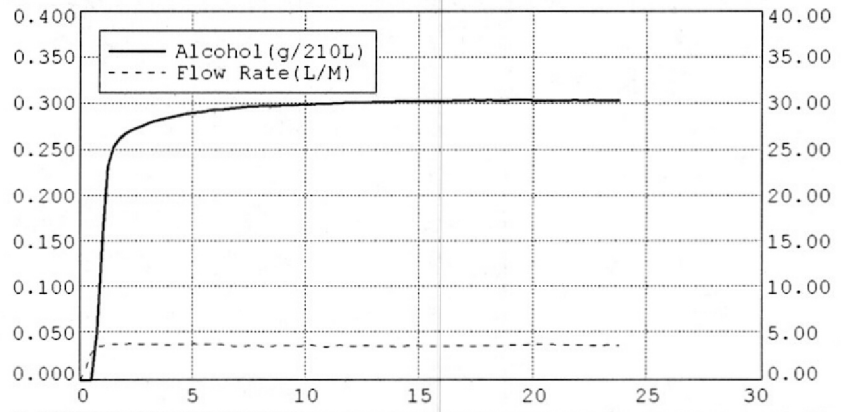
Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 06/26/2012
Time: 10:39:41

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
LOT #: 11110
EXPIRATION: 07/13/2013

BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
EXTERNAL STANDARD	0.303	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.302	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.300	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.301	10:45
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.301	10:46
BLANK TEST	0.000	10:47

Average = 0.3017
Std Dev = 0.0011



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100365

Date: 06/26/2012
 Time: 11:00:10

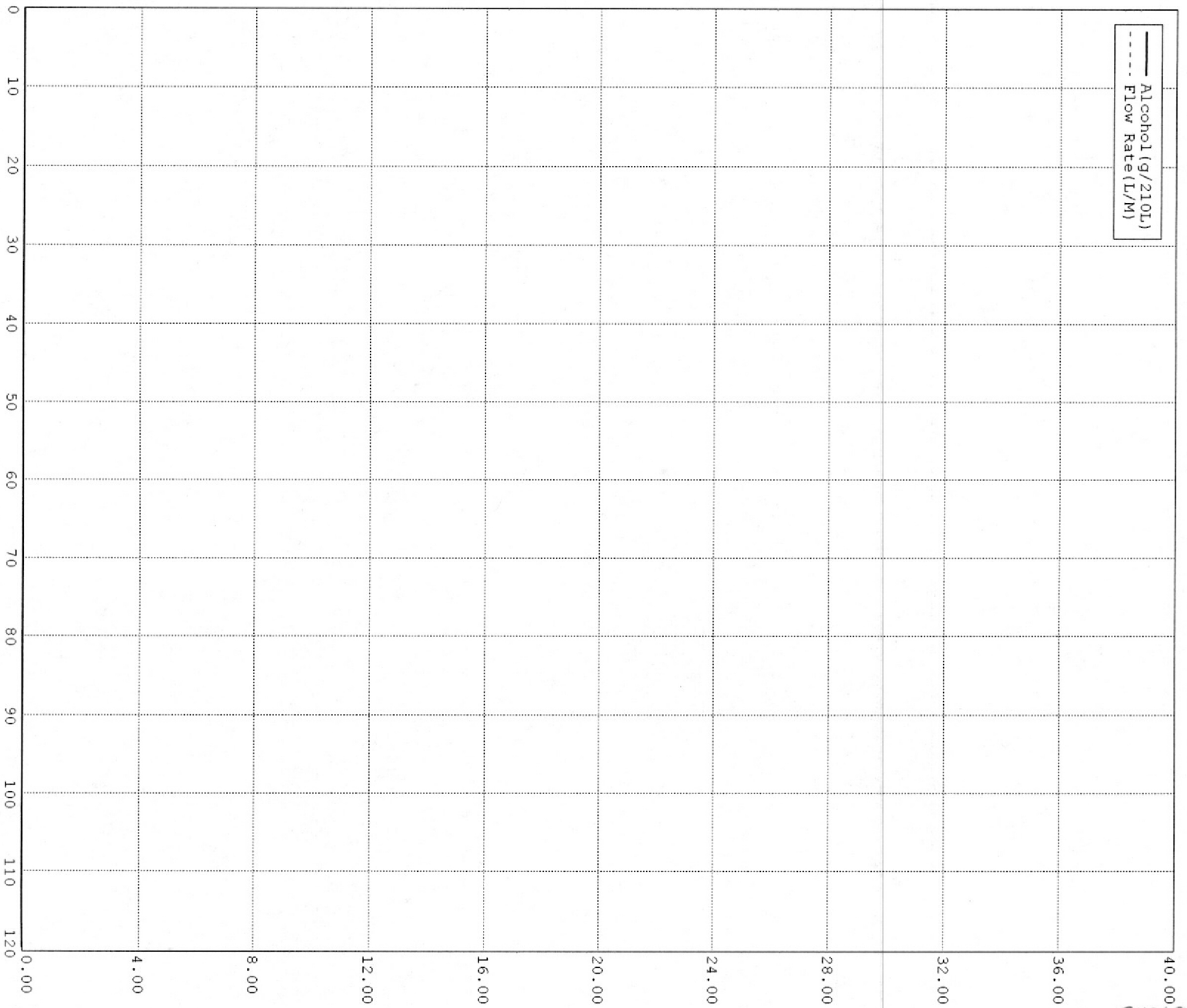
SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.42: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:18
BLANK TEST	0.000	11:18
INTERNAL STANDARD	VERIFIED	11:18
EXTERNAL STANDARD	0.079	11:18
BLANK TEST	0.000	11:19
SUBJECT SAMPLE	INCOMPLETE	11:21



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 06/26/2012
Time: 14:16:55

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

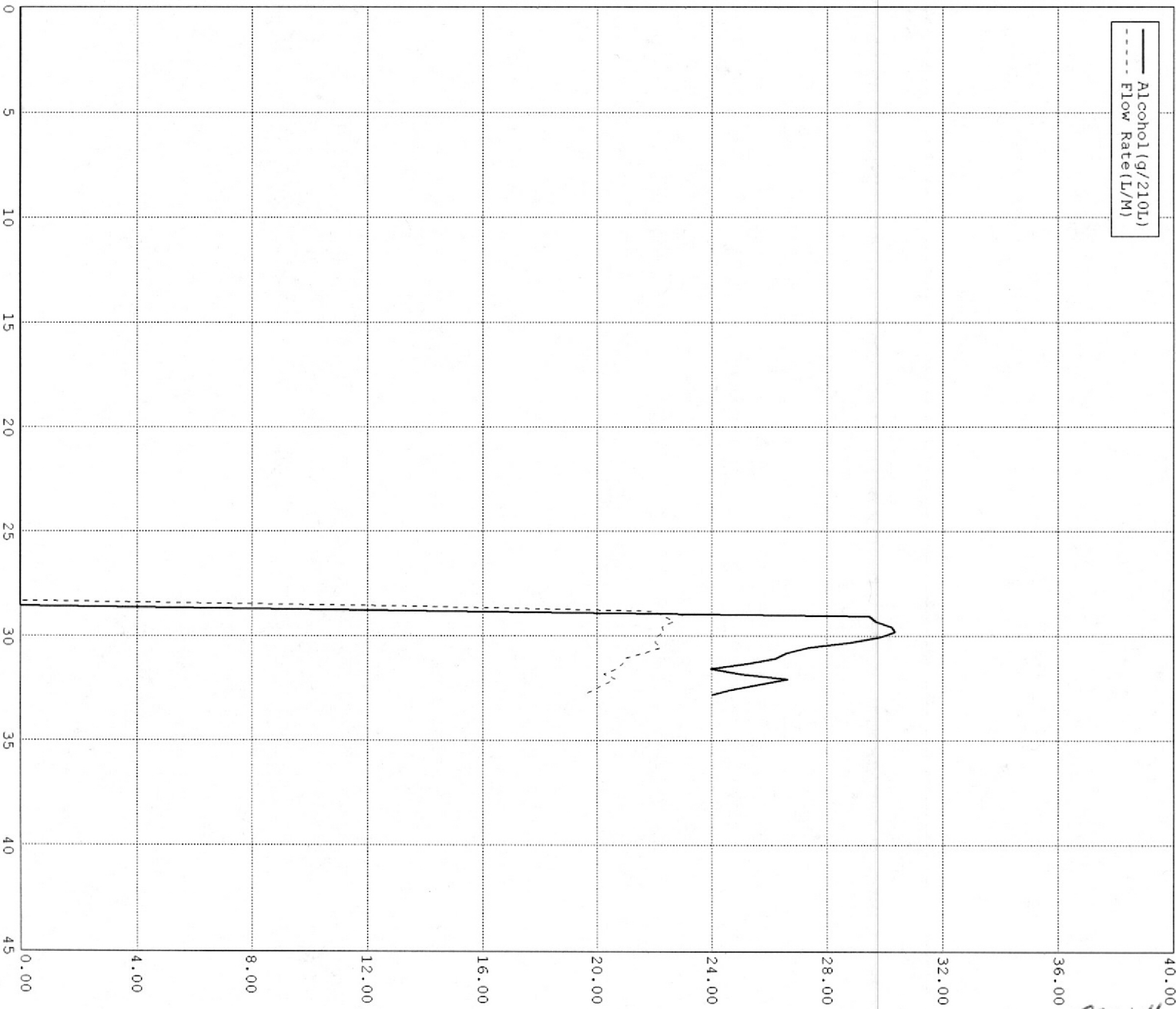
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:17
BLANK TEST	0.000	14:18
INTERNAL STANDARD	VERIFIED	14:18
EXTERNAL STANDARD	0.079	14:18
BLANK TEST	0.000	14:19
SUBJECT SAMPLE	INVALID	14:20

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



Handwritten signature

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 06/26/2012
Time: 14:28:02

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

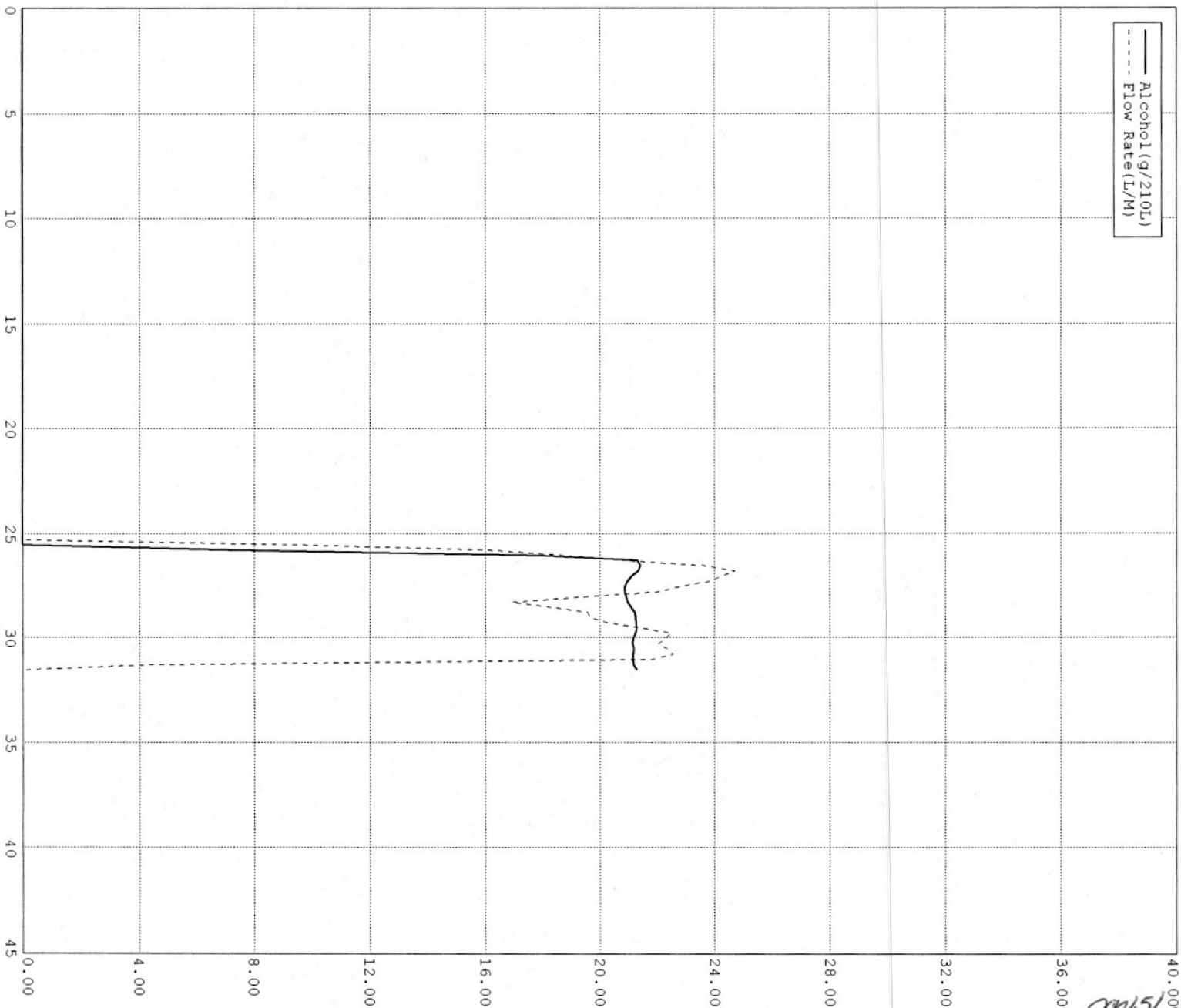
DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:32
BLANK TEST	0.000	14:32
INTERNAL STANDARD	VERIFIED	14:32
Xg = 0.107 (2.19%)		
EXTERNAL STANDARD	0.079	14:32
X[1] = 0.0791 (0.0001) (0.0020)		
BLANK TEST	0.000	14:33
SUBJECT SAMPLE INTERFERENCE		14:34
X[1] = 0.1070 (-0.0198) (-0.0011)		

CRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 06/26/2012
Time: 14:42:17

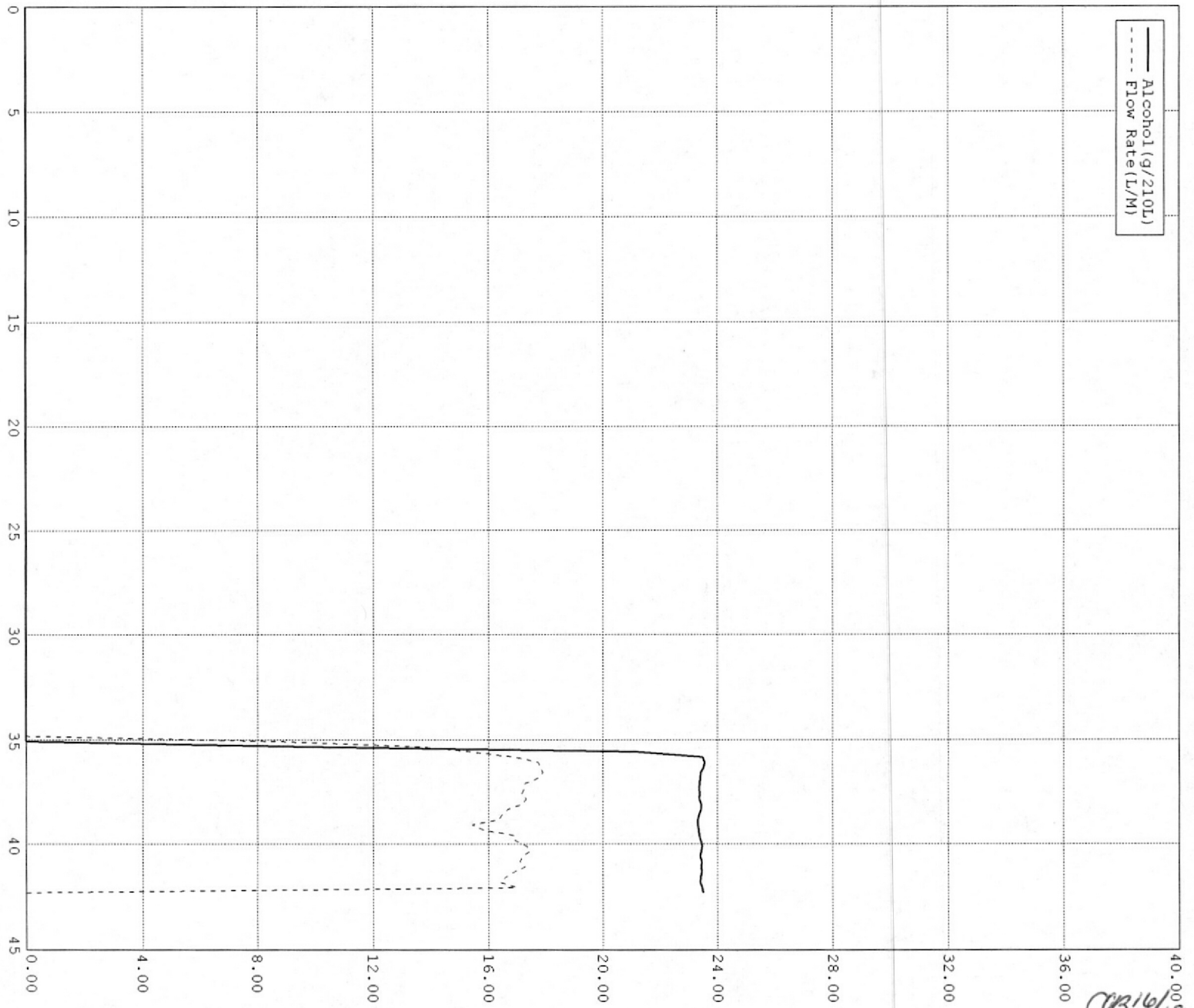
SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:45
BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:45
Xd = 0.106 (1.01%)		
EXTERNAL STANDARD	0.079	14:46
X[1] = 0.0793 (-0.0006)	(0.0019)	
BLANK TEST	0.000	14:47
SUBJECT SAMPLE	INTERFERENCE	14:47
X[1] = 0.1187 (-0.0239)	(0.0017)	



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 06/26/2012
Time: 14:50:43

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEG

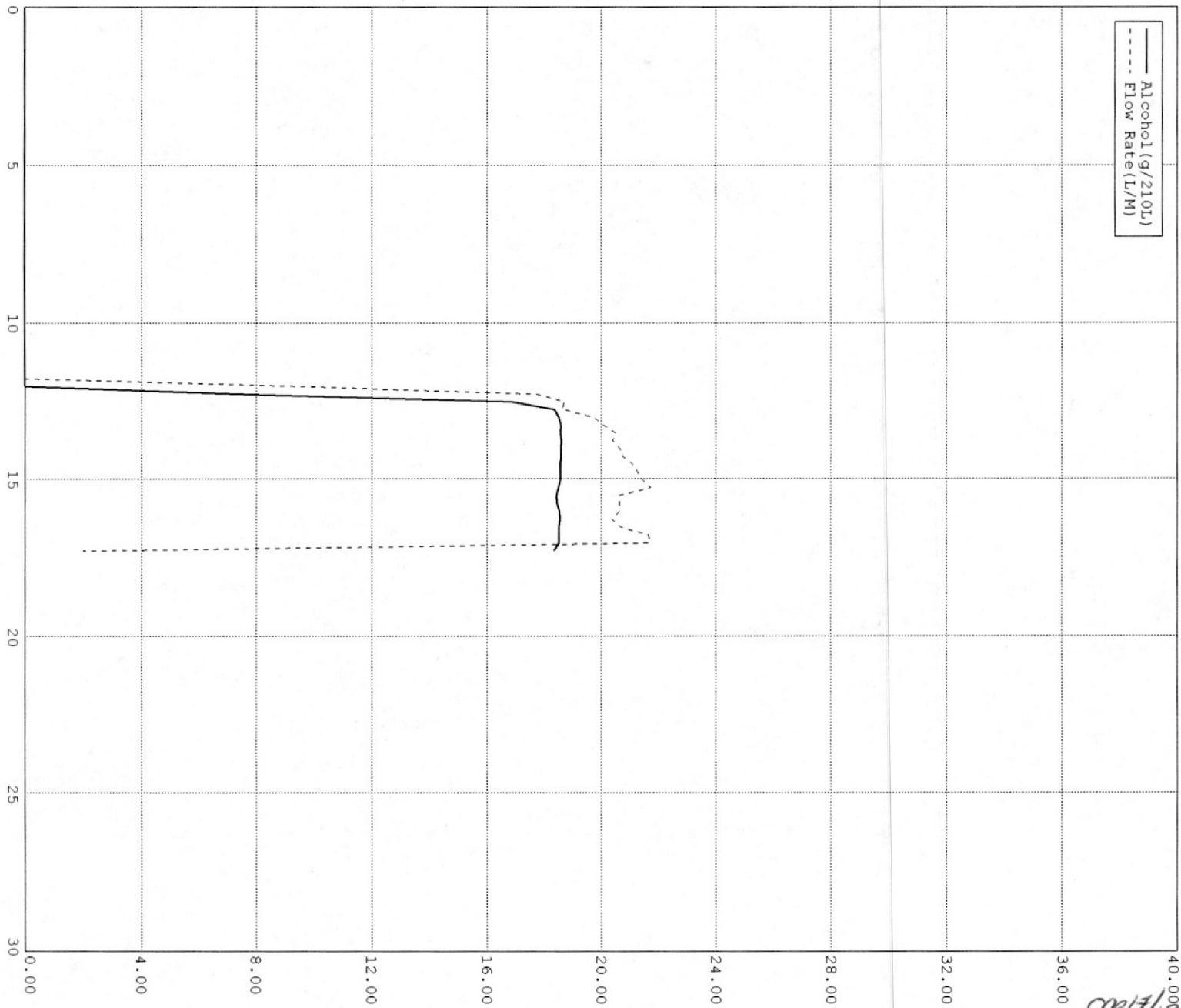
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:51
BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:51
Xd = 0.106 (1.34%)		
EXTERNAL STANDARD	0.079	14:52
X[1] = 0.0794 (-0.0003)	(0.0025)	
BLANK TEST	0.000	14:53
SUBJECT SAMPLE (Vol=1.75L)	0.092	14:53
X[1] = 0.0929 (0.0002)	(0.0005)	
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.079	14:54
X[1] = 0.0792 (0.0005)	(0.0027)	
BLANK TEST	0.000	14:55

COB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100365

Date: 06/26/2012
Time: 15:02:42

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

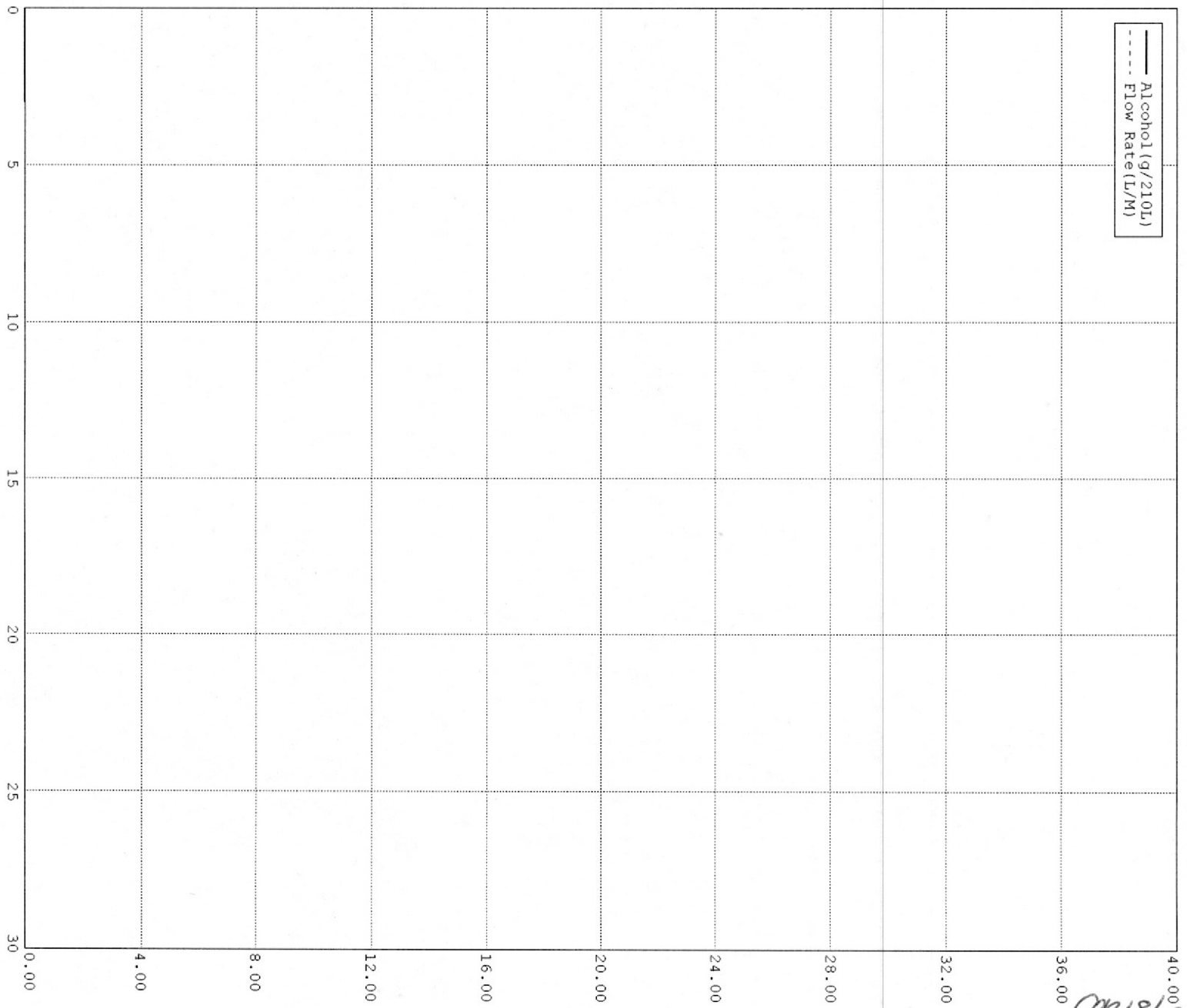
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:16
BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
EXTERNAL STANDARD	0.080	15:17
BLANK TEST	0.000	15:18

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100365

Date: 06/29/2012
Time: 12:22:19

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.70: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	12:23
BLANK TEST	0.000	12:23
INTERNAL STANDARD	VERIFIED	12:23
EXTERNAL STANDARD	0.079	12:23
BLANK TEST	0.000	12:24
SUBJECT SAMPLE	0.000	12:25
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.079	12:26
BLANK TEST	0.000	12:27

COB

