

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100695 Analyst Colleen O'Bryant Start Date 5/16/2012Diagnostic 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 1600 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 07511080A1 Exp 03/01/2013iv. 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 SD1176 Date Calibrated 07/19/2013 ^{08/17/2013}vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/20131. Simulator S/N DR4176 Date Calibrated 02/01/2012

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/20131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/20121. Simulator S/N DR6267 Date Calibrated 01/10/2012iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/06/20131. Simulator S/N DR4176 ^{08/21/12} Date Calibrated 02/01/2012 ^{08/21/12}
SD1203 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 05/17/2012

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100695

Date: 05/16/2012
Time: 12:35:39

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 48.0°C	PASSED

PUMP INFO

Flow Rate = 3.878 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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CAB 2/19

Technician Screen

DATAMASTER dmt: 100695

Date: 05/16/2012
Time: 12:54 PM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 47.4°C

Current Barometer 30.2 in
Volume (Ltr) 1.47

Settings

Lamp: 1.68 V
Bias: 80 V
Cooler: 1.61 V
Chopper: 553 Hz

Voltages (V)

Flow: 1.04 V
Detector: -0.032 V

CAB 8/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 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
Xq	=	0.1092	0.0500	<= Xq < 0.2000
a21	=	1.156617	1.050	<= a21 < 1.300
a31	=	0.538073	0.300	<= a31 < 0.800

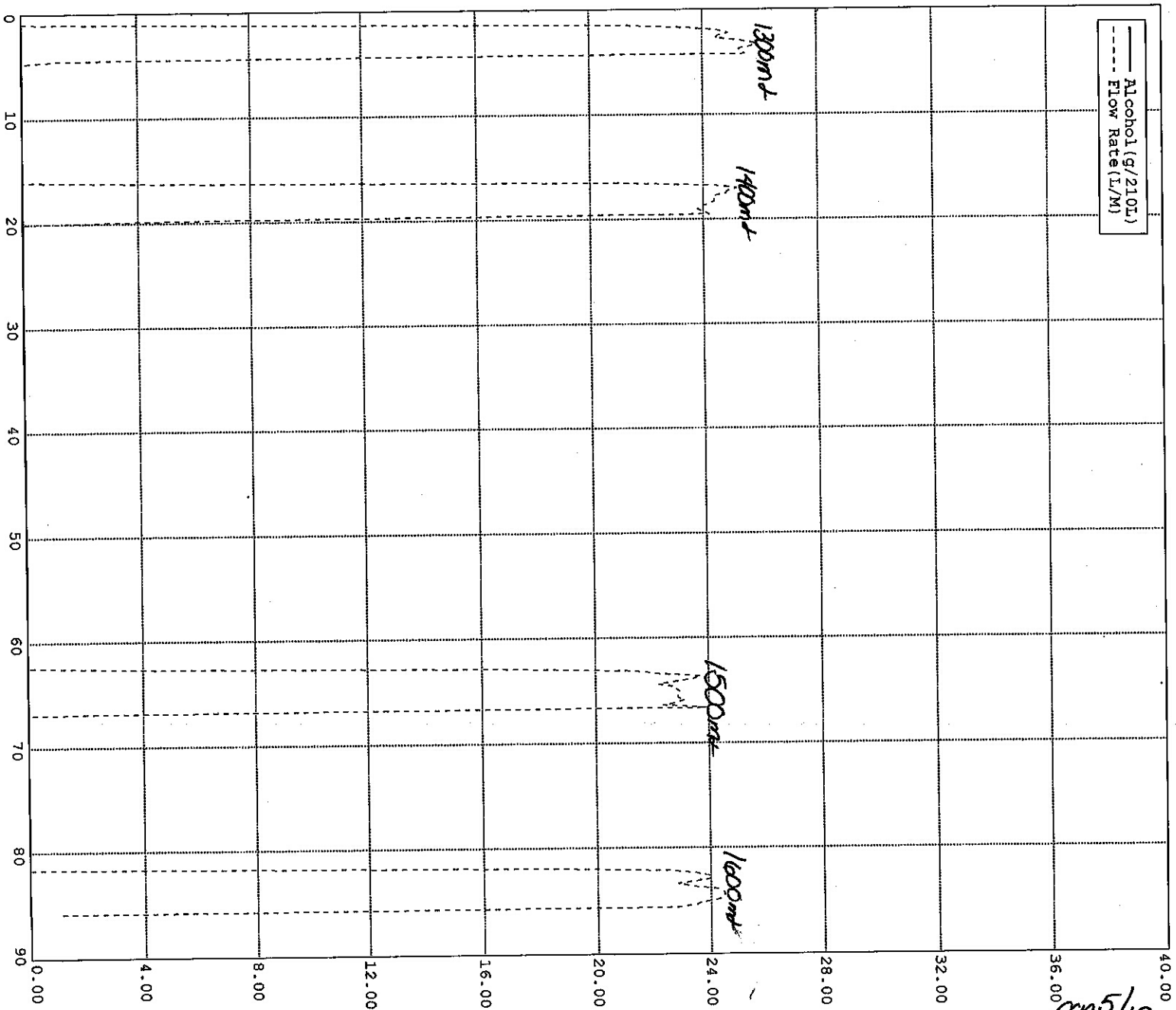
CAB 4/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100695Date: 05/16/2012
Time: 12:57:09SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TESTOPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.21: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	12:58
BLANK TEST	0.000	12:58
INTERNAL STANDARD	VERIFIED	12:58
EXTERNAL STANDARD	0.080	12:58
BLANK TEST	0.000	12:59
SUBJECT SAMPLE	0.000	13:01
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.080	13:02
BLANK TEST	0.000	13:03

CAB



LINEARITY CHECK

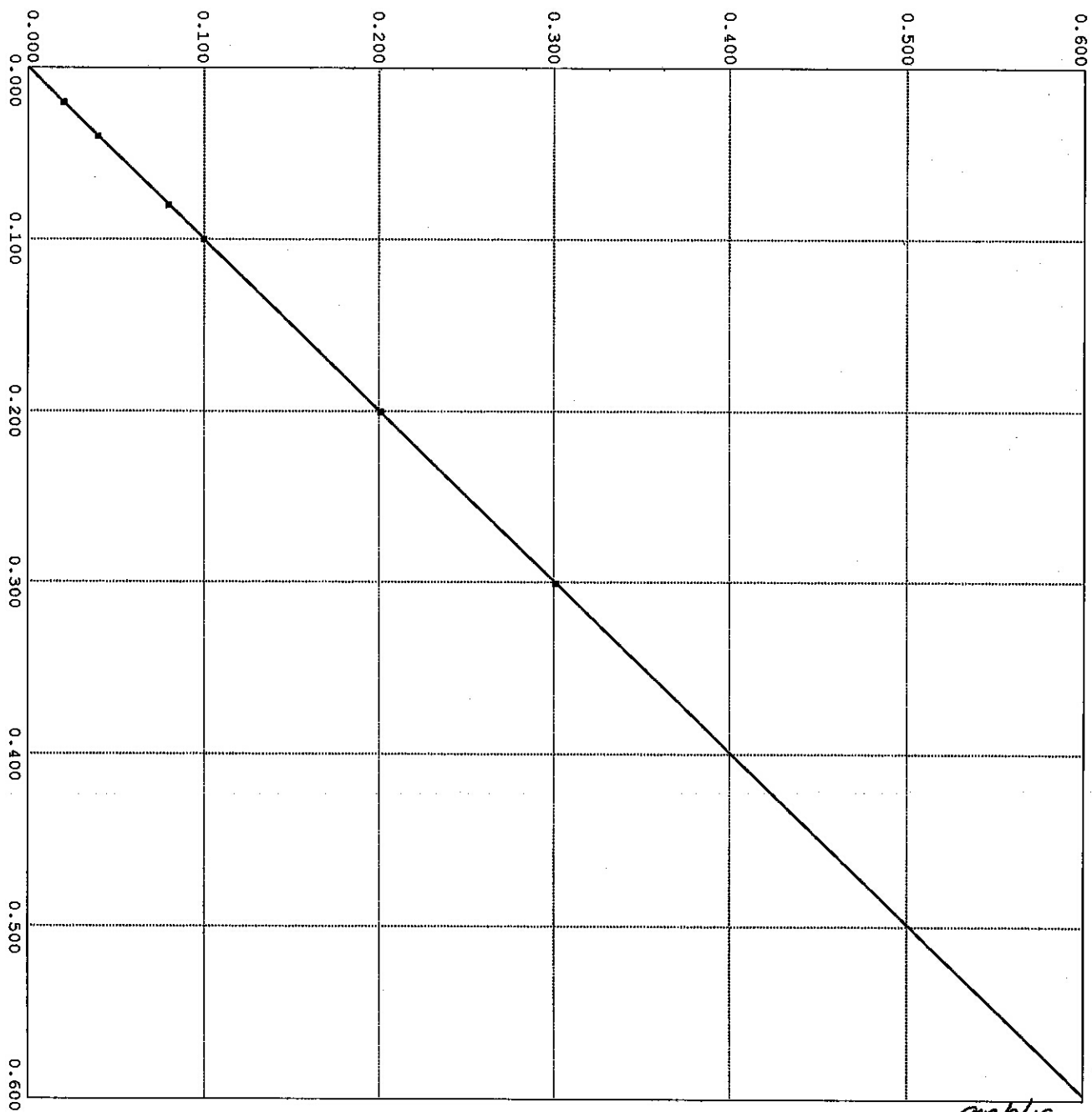
Alaska Department of Public Safety
 DATAMASTER dmt: 100695

Date: 05/16/2012
 Time: 14:25:53

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0211	0.0002
0.040	0.0408	0.0002
0.080	0.0805	0.0002
0.100	0.1010	0.0001
0.200	0.2020	0.0004
0.300	0.3017	0.0004

SLOPE = 1.003854
 R^2 = 0.999987



C08

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100695

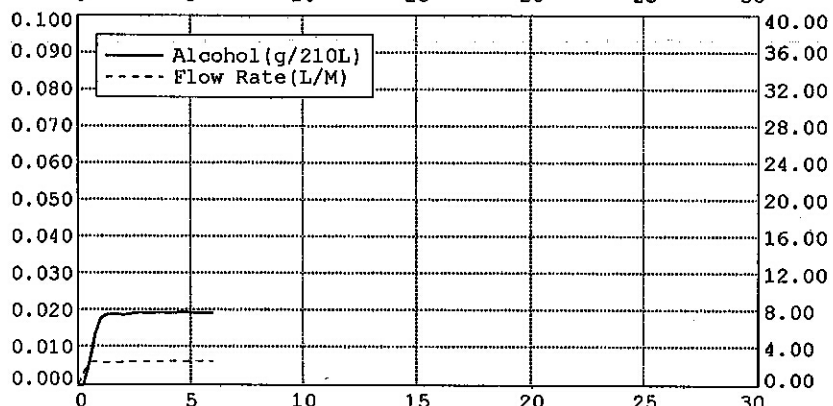
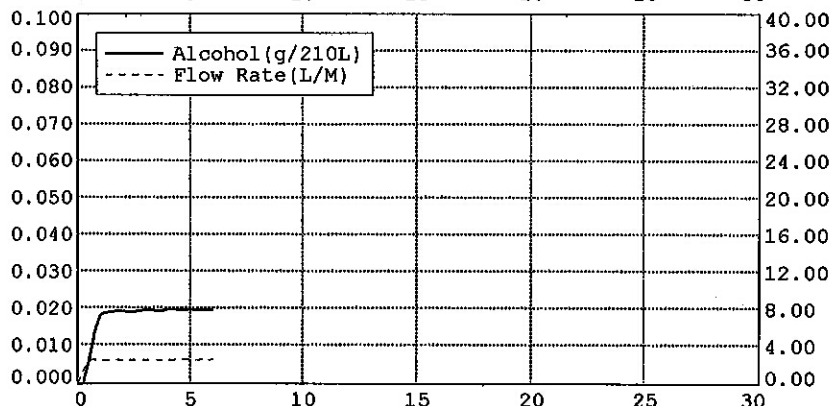
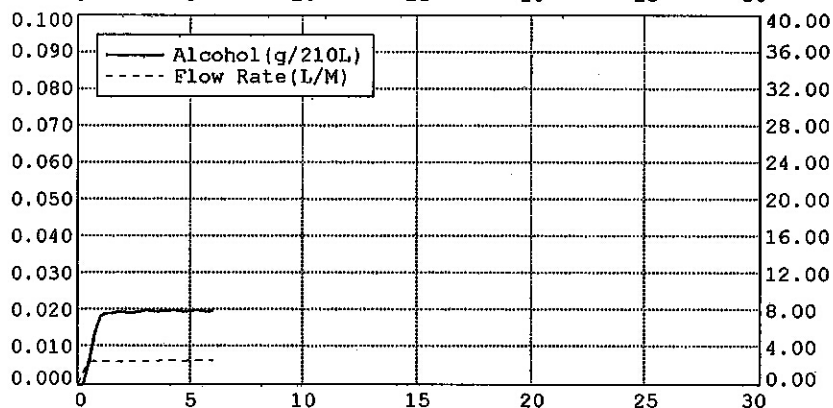
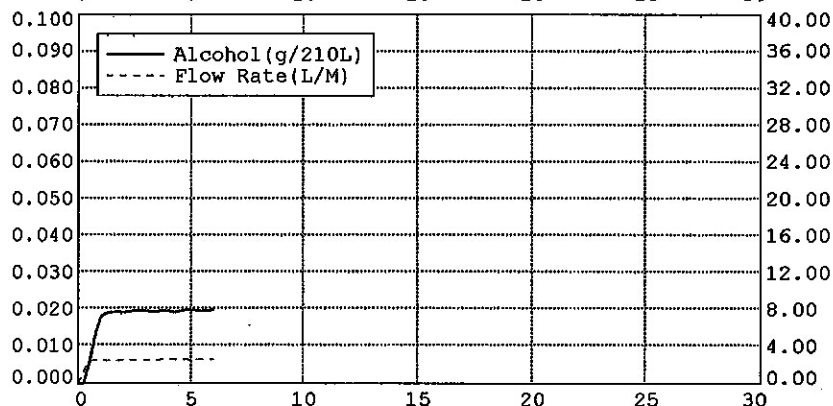
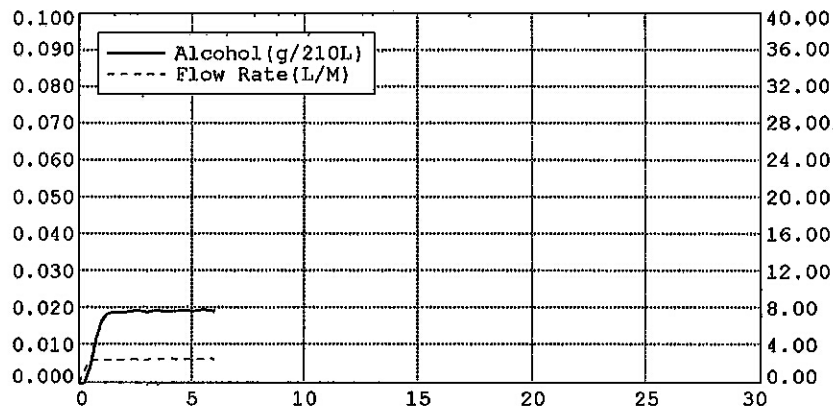
Date: 05/16/2012
Time: 14:25:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 30.19: 0.020
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.021	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.021	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.021	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.021	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.021	14:35
BLANK TEST	0.000	14:36

Average = 0.0211
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100695

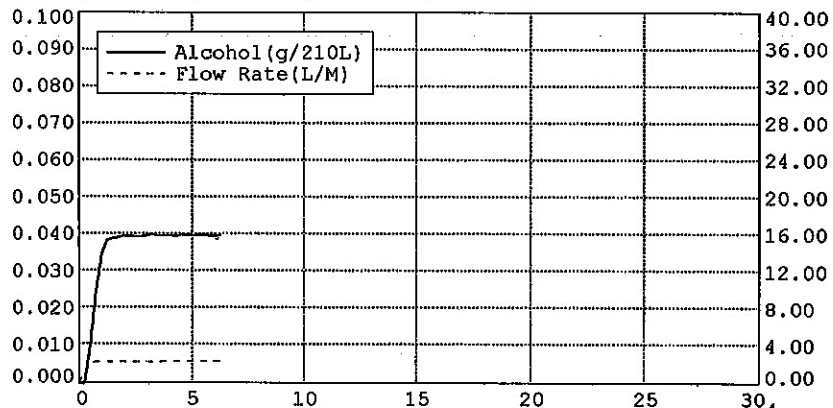
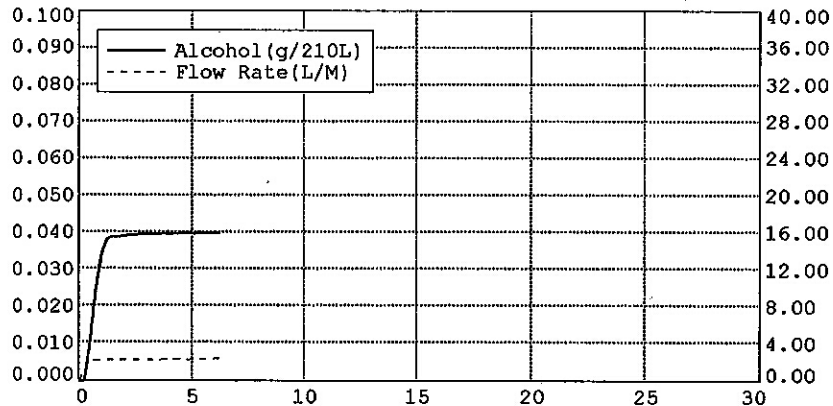
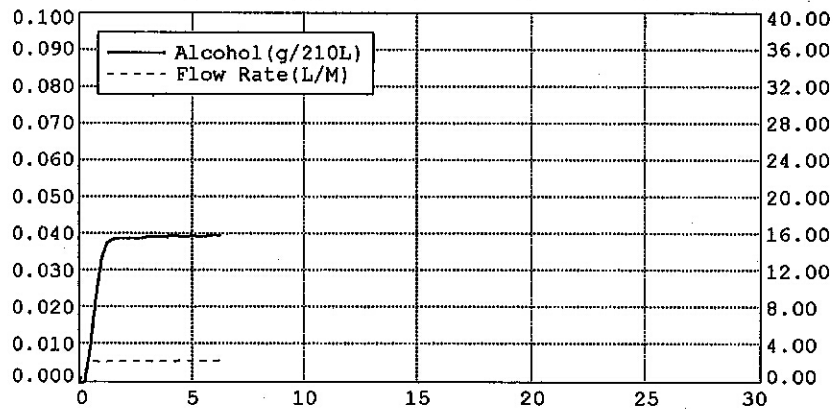
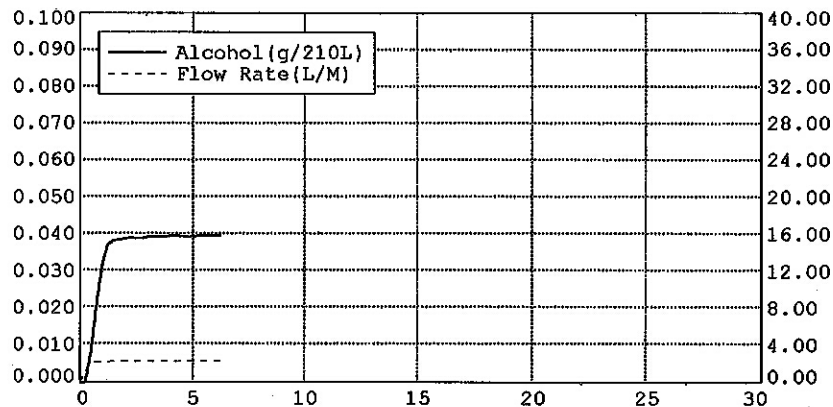
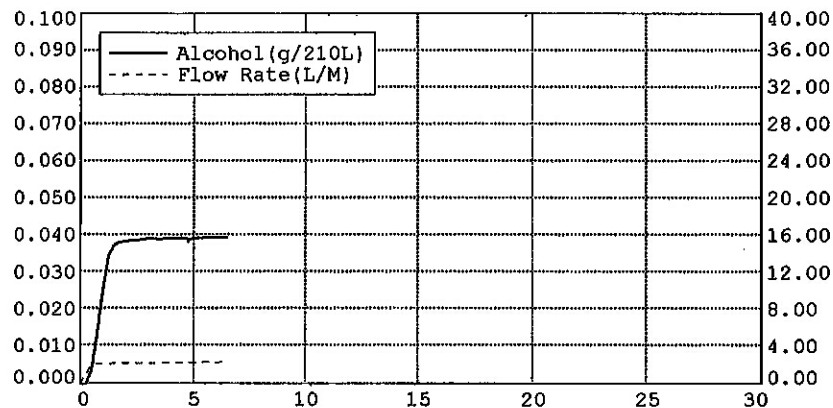
Date: 05/16/2012
Time: 14:39:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 30.19: 0.040
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:40
INTERNAL STANDARD	VERIFIED	14:40
EXTERNAL STANDARD	0.040	14:41
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.040	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.040	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.041	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.041	14:45
BLANK TEST	0.000	14:46

Average = 0.0408
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100695

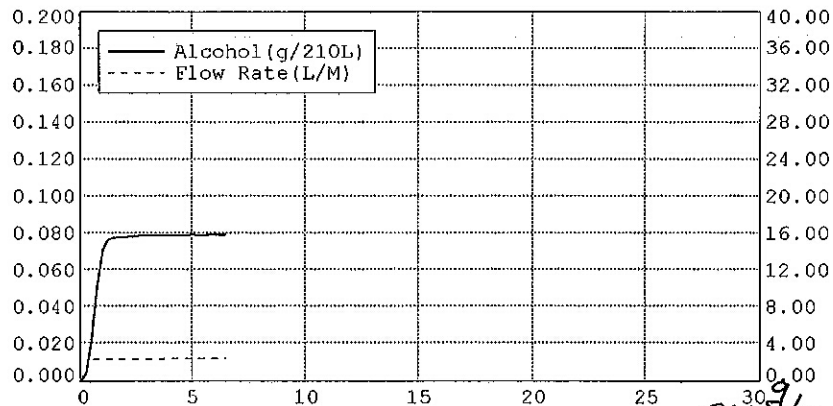
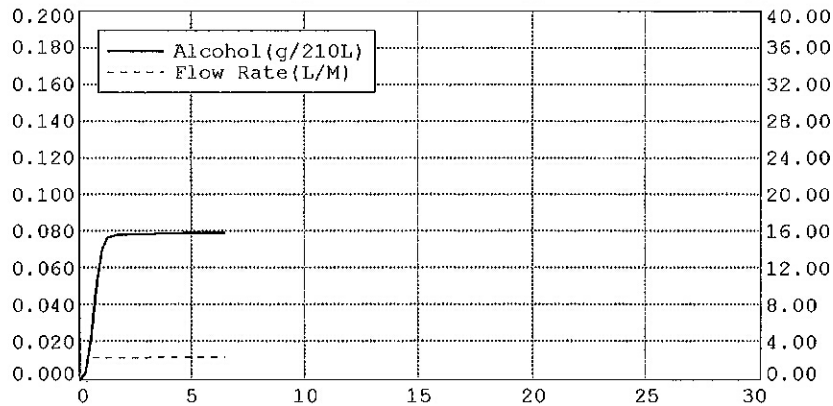
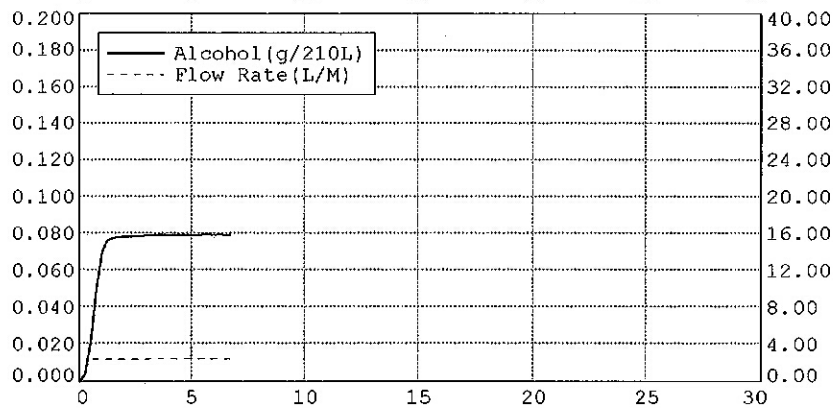
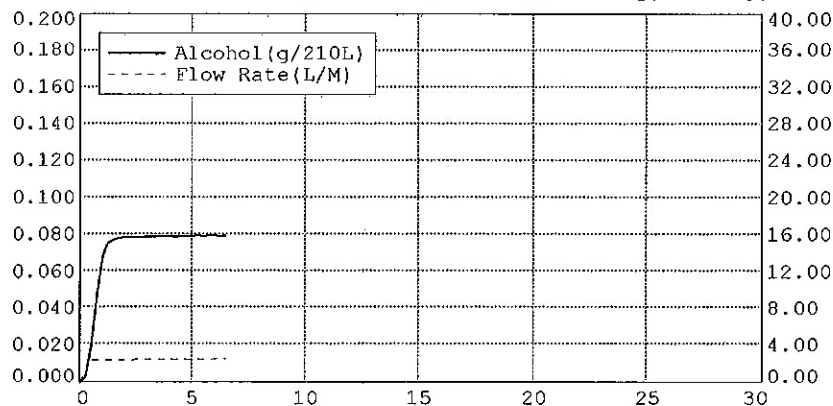
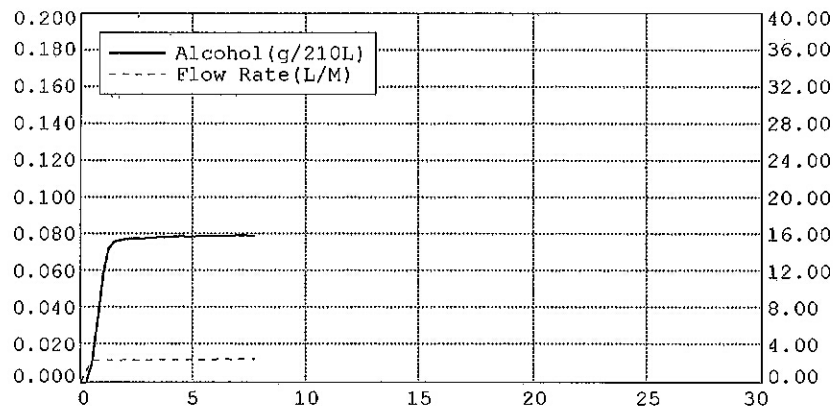
Date: 05/16/2012
Time: 14:46:44

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.19: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:48
INTERNAL STANDARD	VERIFIED	14:48
EXTERNAL STANDARD	0.080	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.080	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.080	14:51
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.080	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.080	14:53
BLANK TEST	0.000	14:54

Average = 0.0805
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100695

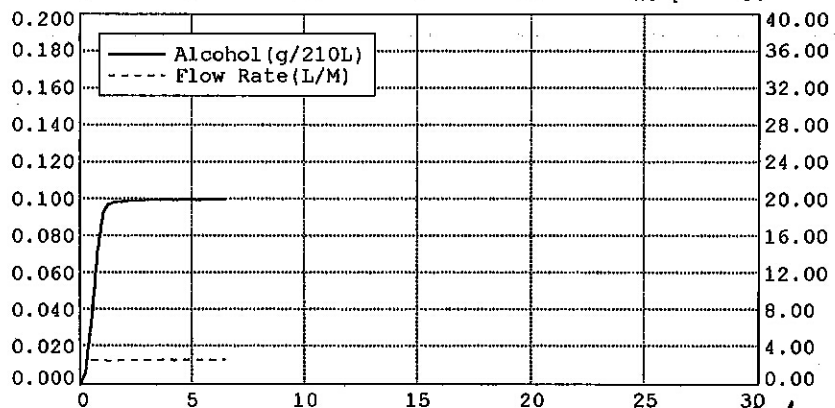
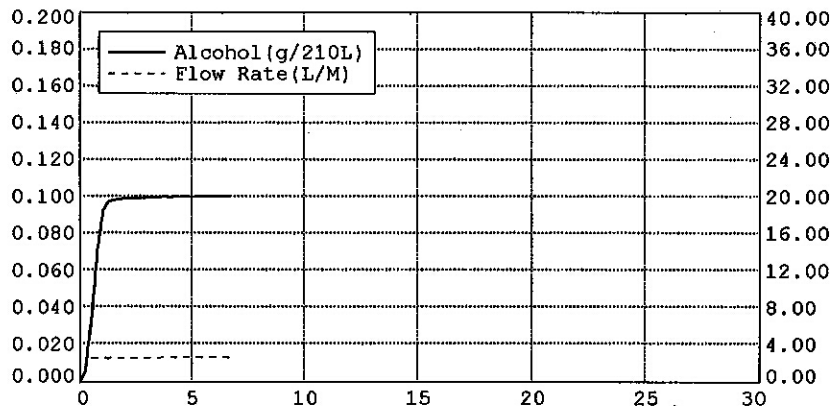
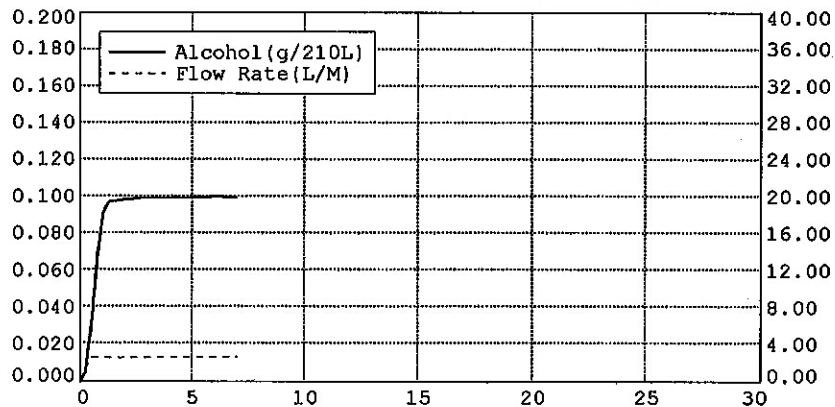
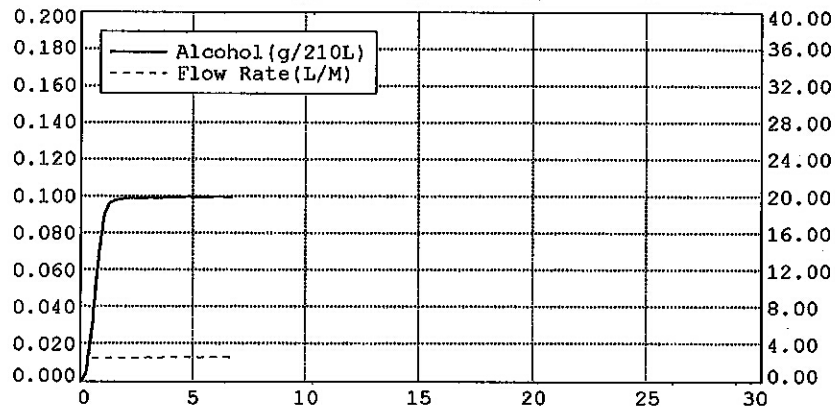
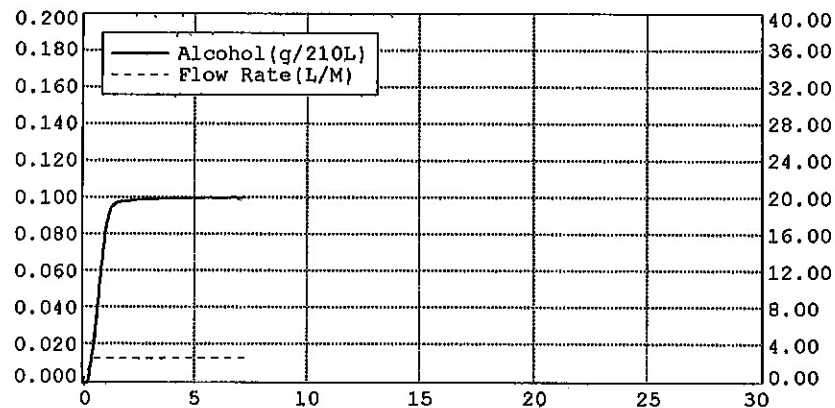
Date: 05/16/2012
Time: 14:56:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 30.19: 0.100
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:57
INTERNAL STANDARD	VERIFIED	14:57
EXTERNAL STANDARD	0.101	14:58
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.100	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.100	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.101	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.101	15:02
BLANK TEST	0.000	15:03

Average = 0.1010
Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100695

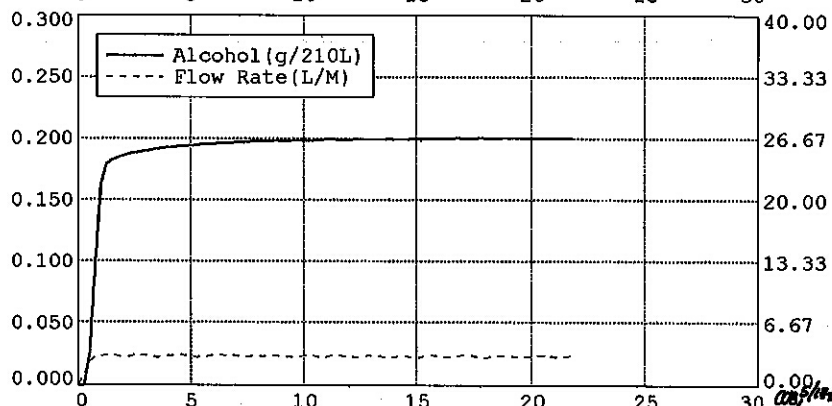
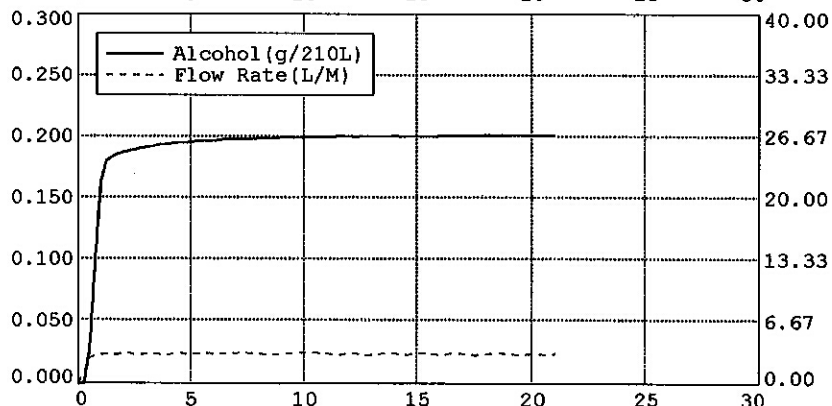
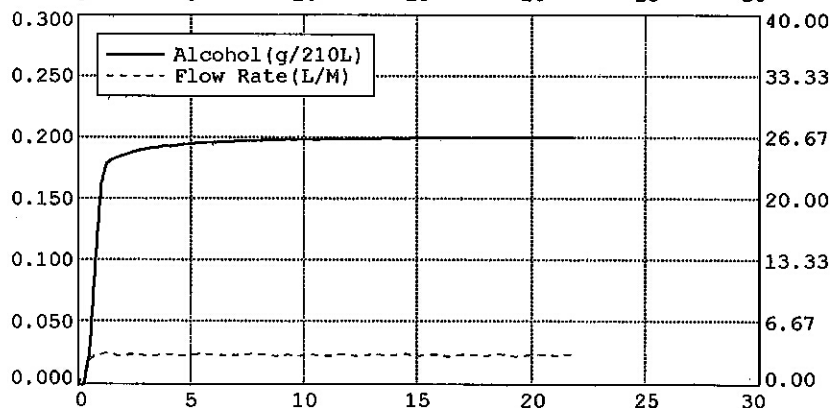
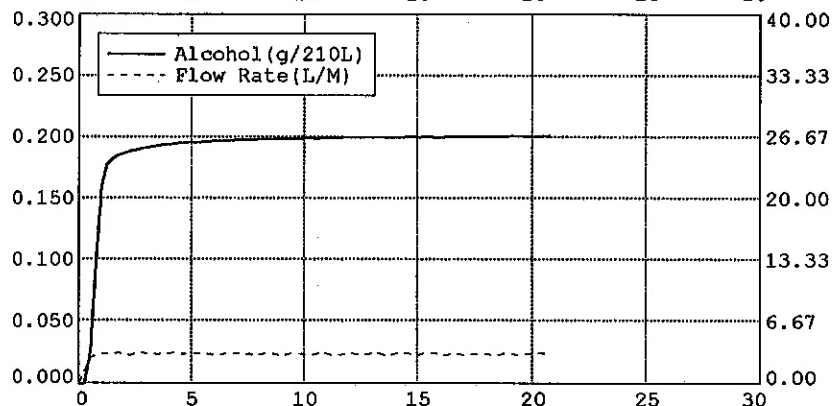
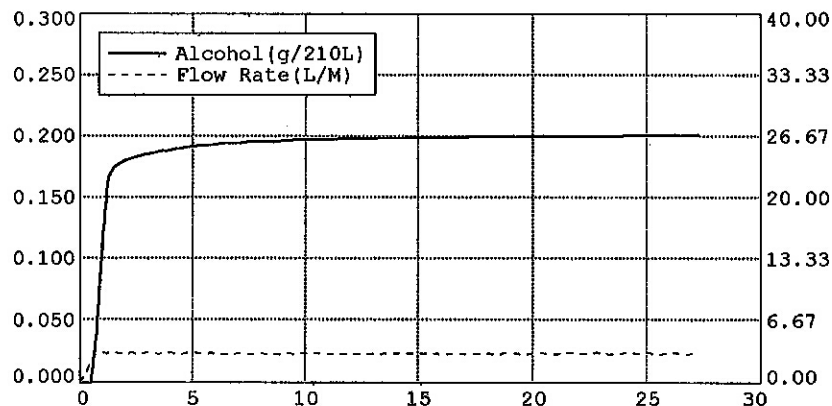
Date: 05/16/2012
Time: 15:06:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

BLANK TEST	0.000	15:08
INTERNAL STANDARD	VERIFIED	15:08
EXTERNAL STANDARD	0.202	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.201	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.201	15:12
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.202	15:13
BLANK TEST	0.000	15:14
EXTERNAL STANDARD	0.202	15:14
BLANK TEST	0.000	15:15

Average = 0.2020
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100695

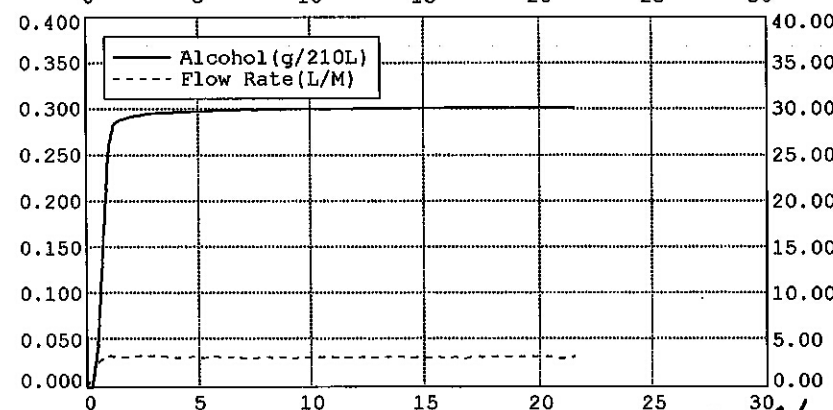
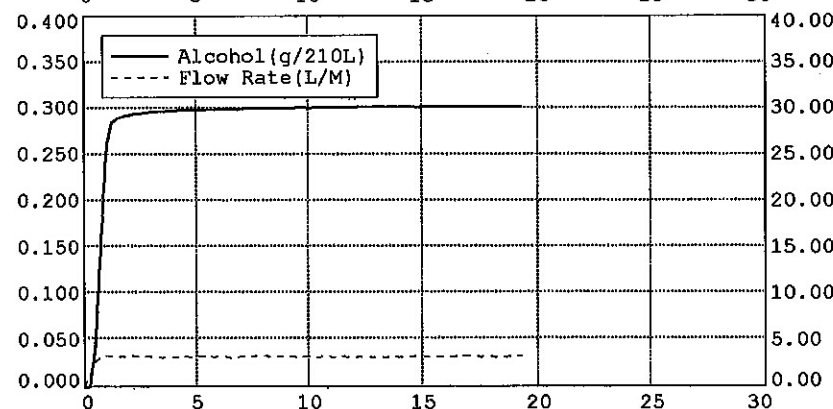
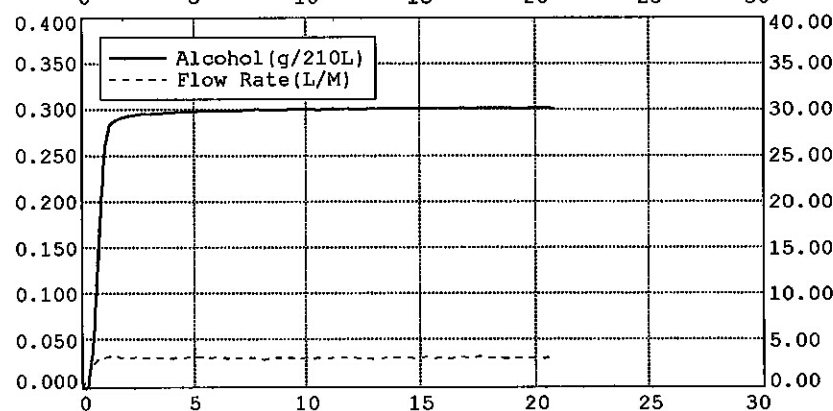
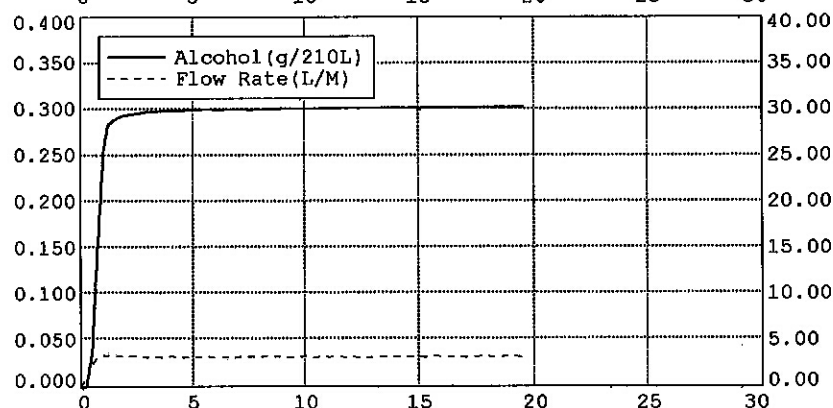
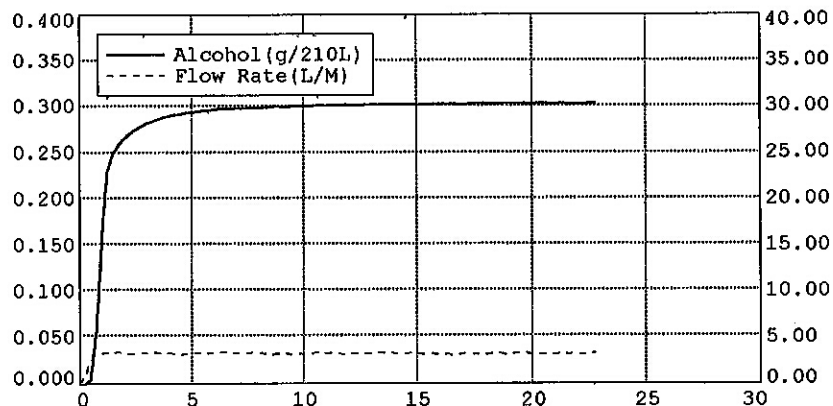
Date: 05/16/2012
Time: 15:16:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 11110
EXPIRATION: 07/13/2013

BLANK TEST	0.000	15:17
INTERNAL STANDARD	VERIFIED	15:17
EXTERNAL STANDARD	0.302	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.301	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.301	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.301	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.301	15:23
BLANK TEST	0.000	15:24

Average = 0.3017
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100695

Date: 05/17/2012
Time: 07:45:35

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

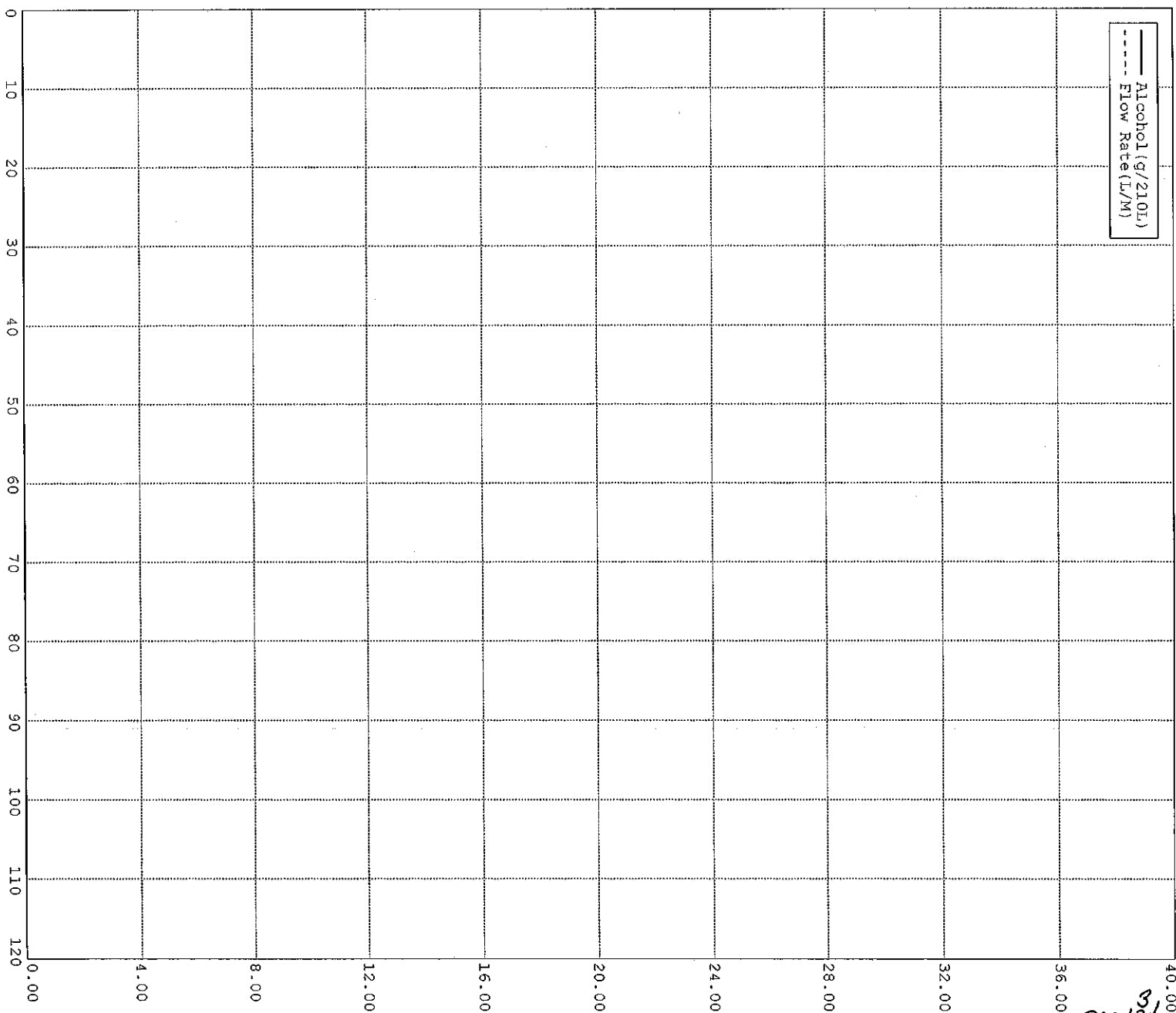
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.10: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	07:46
BLANK TEST	0.000	07:46
INTERNAL STANDARD	VERIFIED	07:46
EXTERNAL STANDARD	0.080	07:47
BLANK TEST	0.000	07:48
SUBJECT SAMPLE	INCOMPLETE	07:50

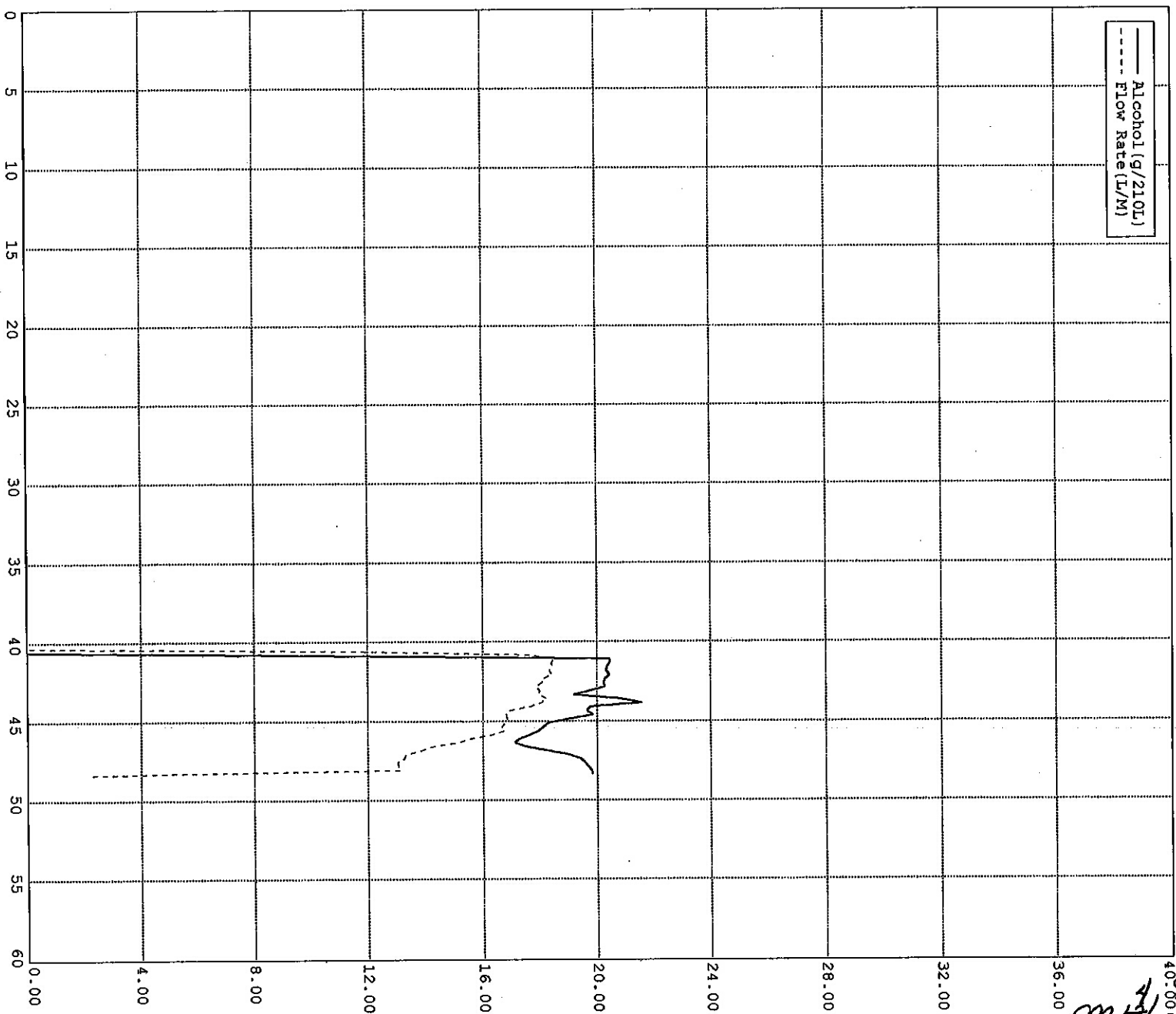
C.O.B



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100695Date: 05/17/2012
Time: 07:53:17SUBJECT NAME:
TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.10: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	07:54
BLANK TEST	0.000	07:54
INTERNAL STANDARD	VERIFIED	07:54
EXTERNAL STANDARD	0.079	07:54
BLANK TEST	0.000	07:55
SUBJECT SAMPLE	INVALID	07:59

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

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100695

Date: 05/17/2012
Time: 08:27:53

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

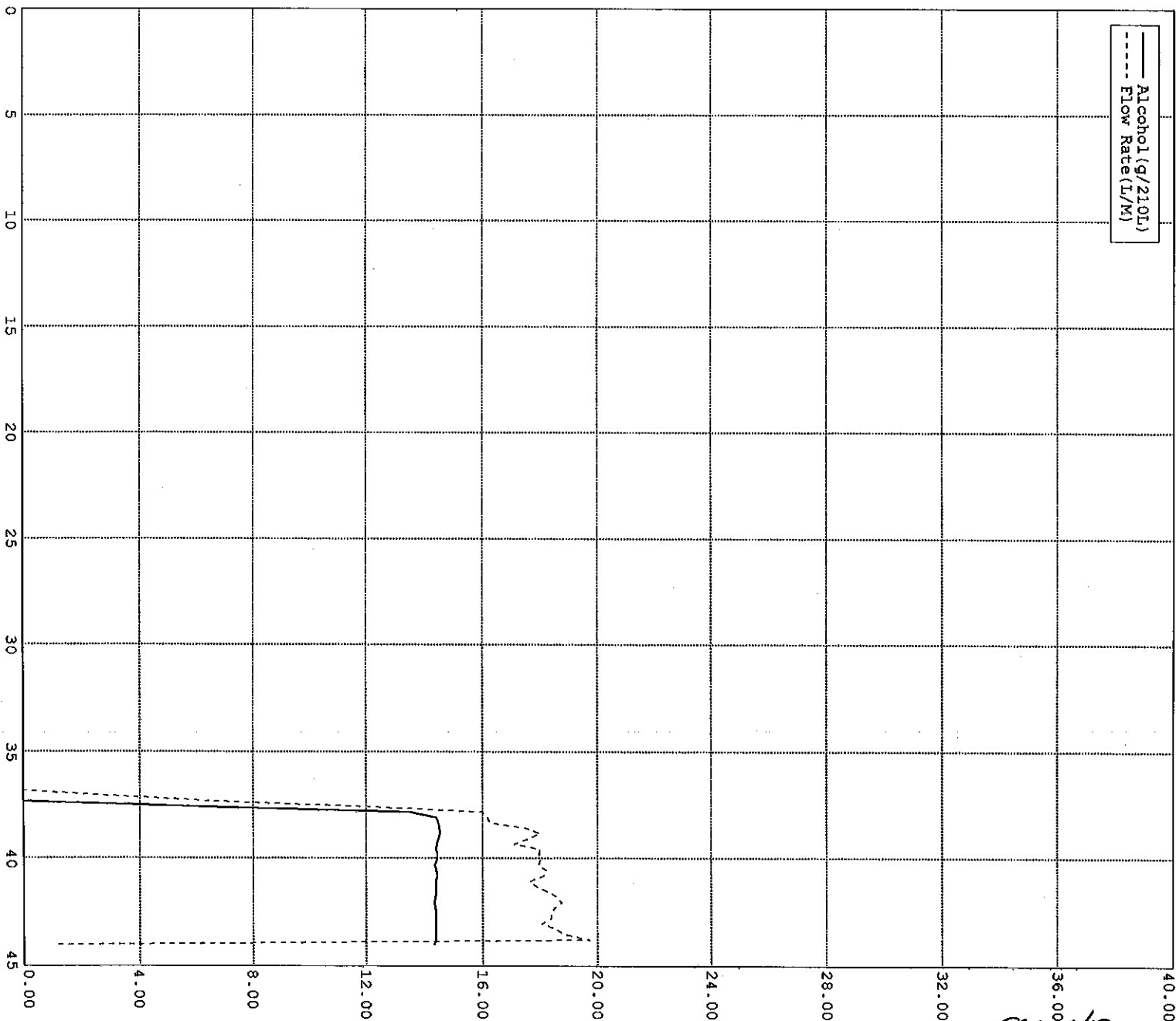
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.10: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:28
BLANK TEST	0.000	08:28
INTERNAL STANDARD	VERIFIED	08:29
Xq = 0.109 (0.00%)		
EXTERNAL STANDARD	0.080	08:29
X[l] = 0.0803 (0.0011) (0.0026)		
BLANK TEST	0.000	08:30
SUBJECT SAMPLE	INTERFERENCE	08:31
X[l] = 0.0726 (-0.0094) (0.0008)		

CAB



0075/19

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100695

Date: 05/17/2012
 Time: 08:11:06

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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

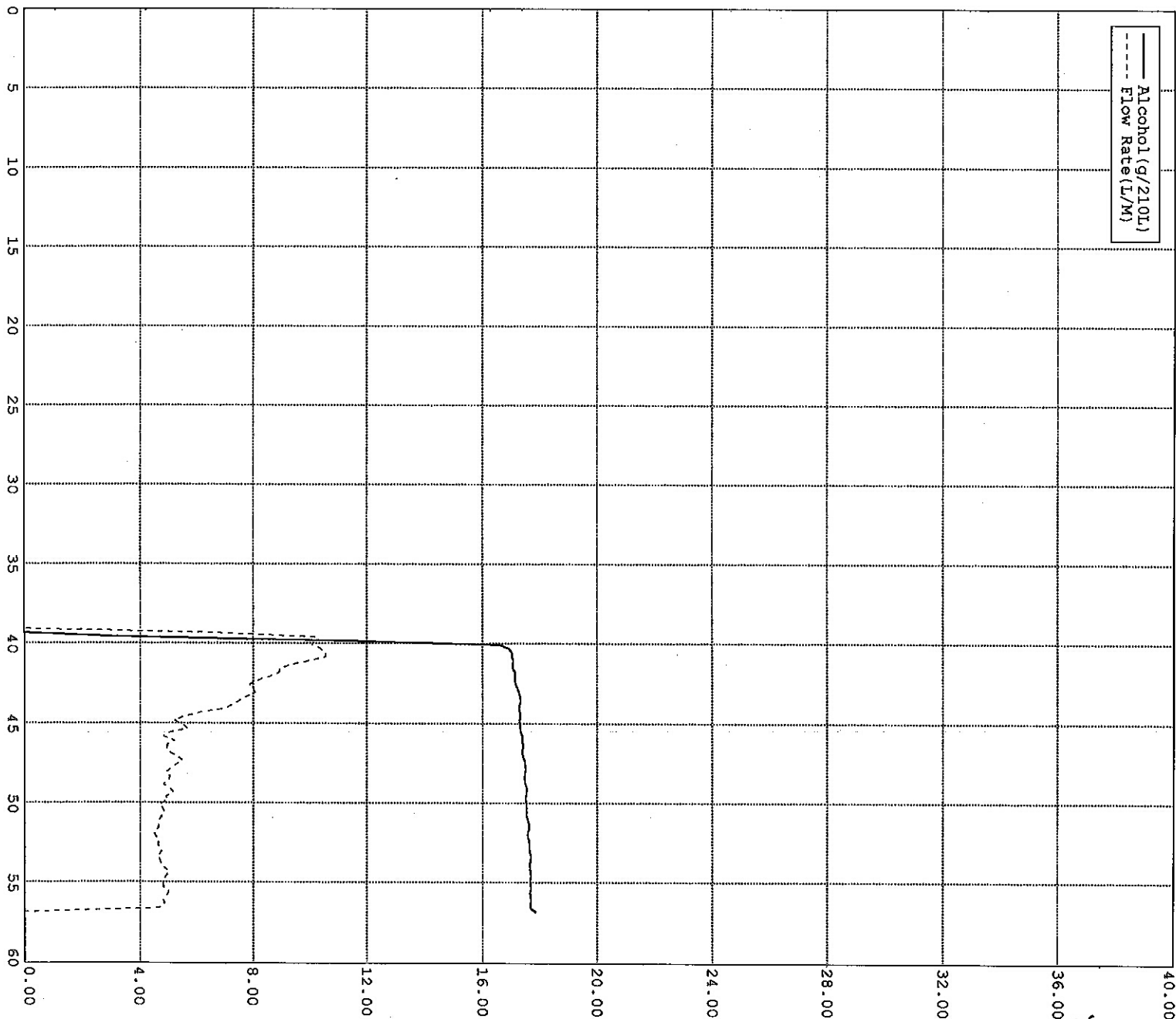
DEPT/AGENCY:
 AAAL

CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.10: 0.080
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:12
BLANK TEST	0.000	08:12
INTERNAL STANDARD	VERIFIED	08:12
XG = 0.109 (0.00%)		
EXTERNAL STANDARD	0.080	08:12
X[1] = 0.0800 (0.0009)	(0.0031)	
BLANK TEST	0.000	08:13
SUBJECT SAMPLE	INTERFERENCE	08:14
X[1] = 0.0896 (-0.0186)	(0.0008)	

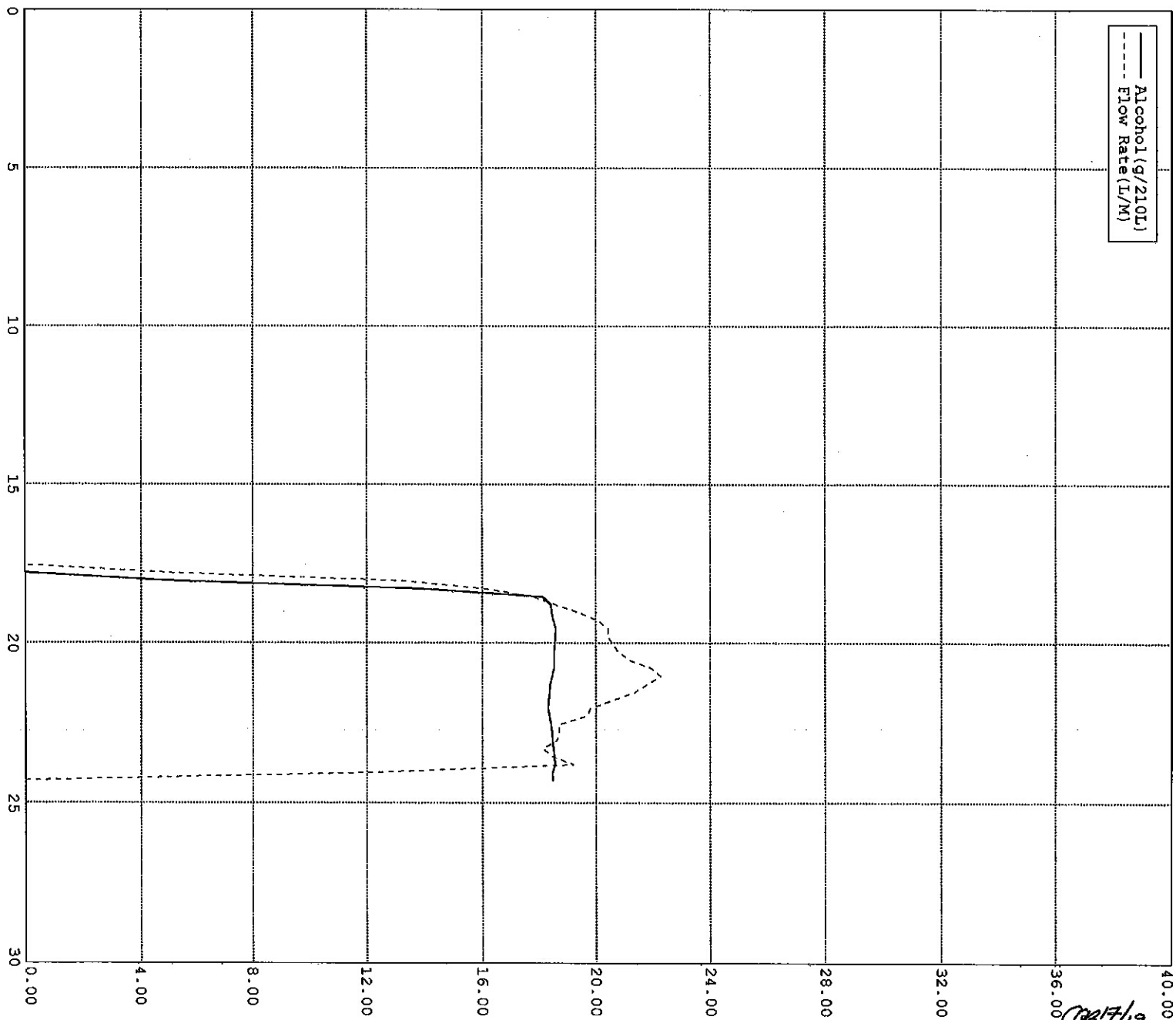
CA



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100695Date: 05/17/2012
Time: 08:20:50SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.10: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:22
BLANK TEST	0.000	08:22
INTERNAL STANDARD	VERIFIED	08:22
Xq = 0.110 (0.40%)		
EXTERNAL STANDARD	0.080	08:22
X[1] = 0.0806 (0.0009)	(0.0032)	
BLANK TEST	0.000	08:23
SUBJECT SAMPLE (Vol=2.02L)	0.093	08:24
X[1] = 0.0931 (0.0006)	(0.0007)	
BLANK TEST	0.000	08:25
EXTERNAL STANDARD	0.079	08:25
X[1] = 0.0798 (0.0002)	(0.0026)	
BLANK TEST	0.000	08:26

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

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100695

Date: 05/17/2012
 Time: 08:33:50

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

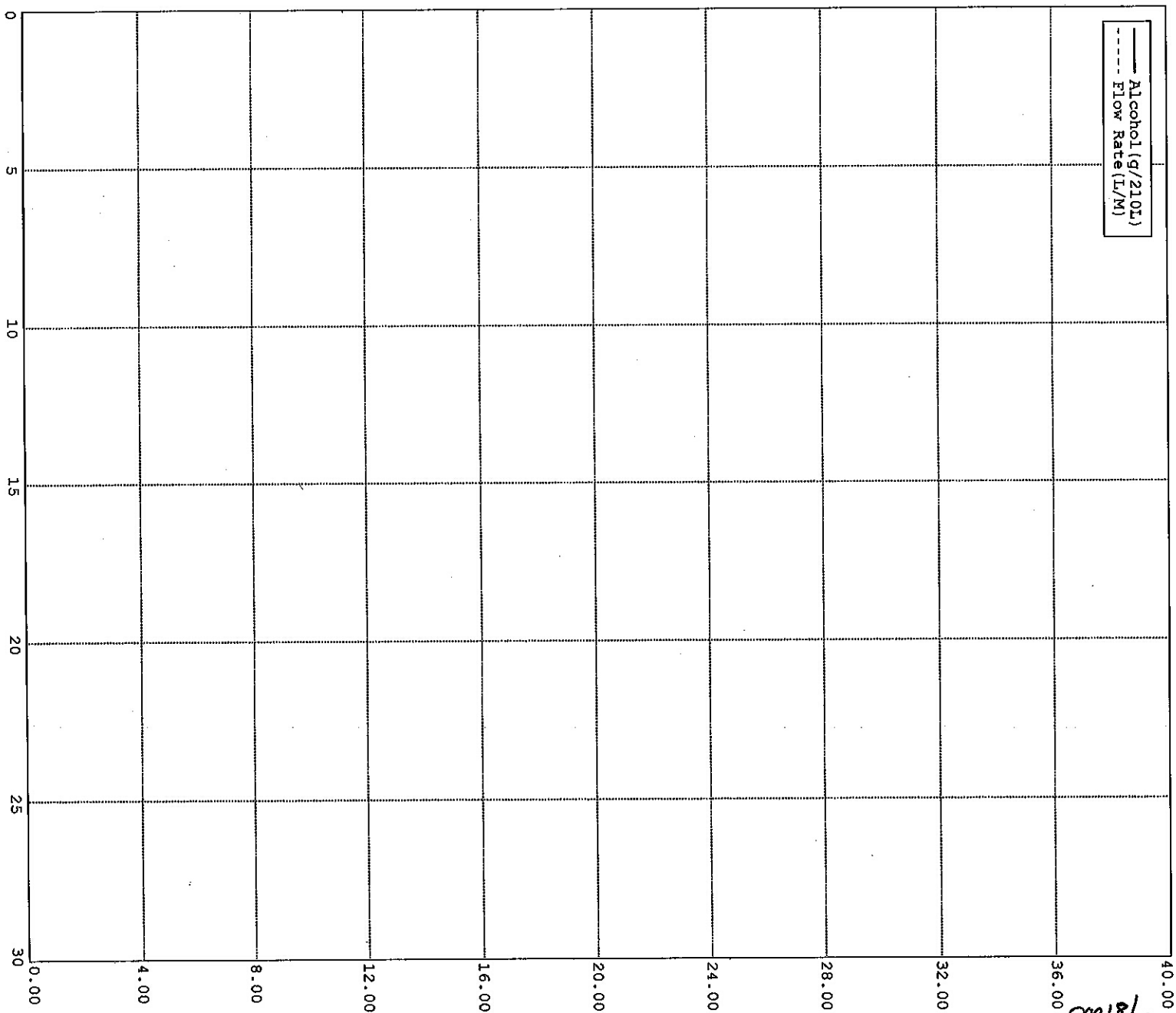
OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.10: 0.080
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:35
BLANK TEST	0.000	08:35
INTERNAL STANDARD	VERIFIED	08:35
EXTERNAL STANDARD	0.079	08:35
BLANK TEST	0.000	08:36

RFI DETECTED



CAB 18/12

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100695

Date: 05/17/2012
 Time: 09:09:57

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

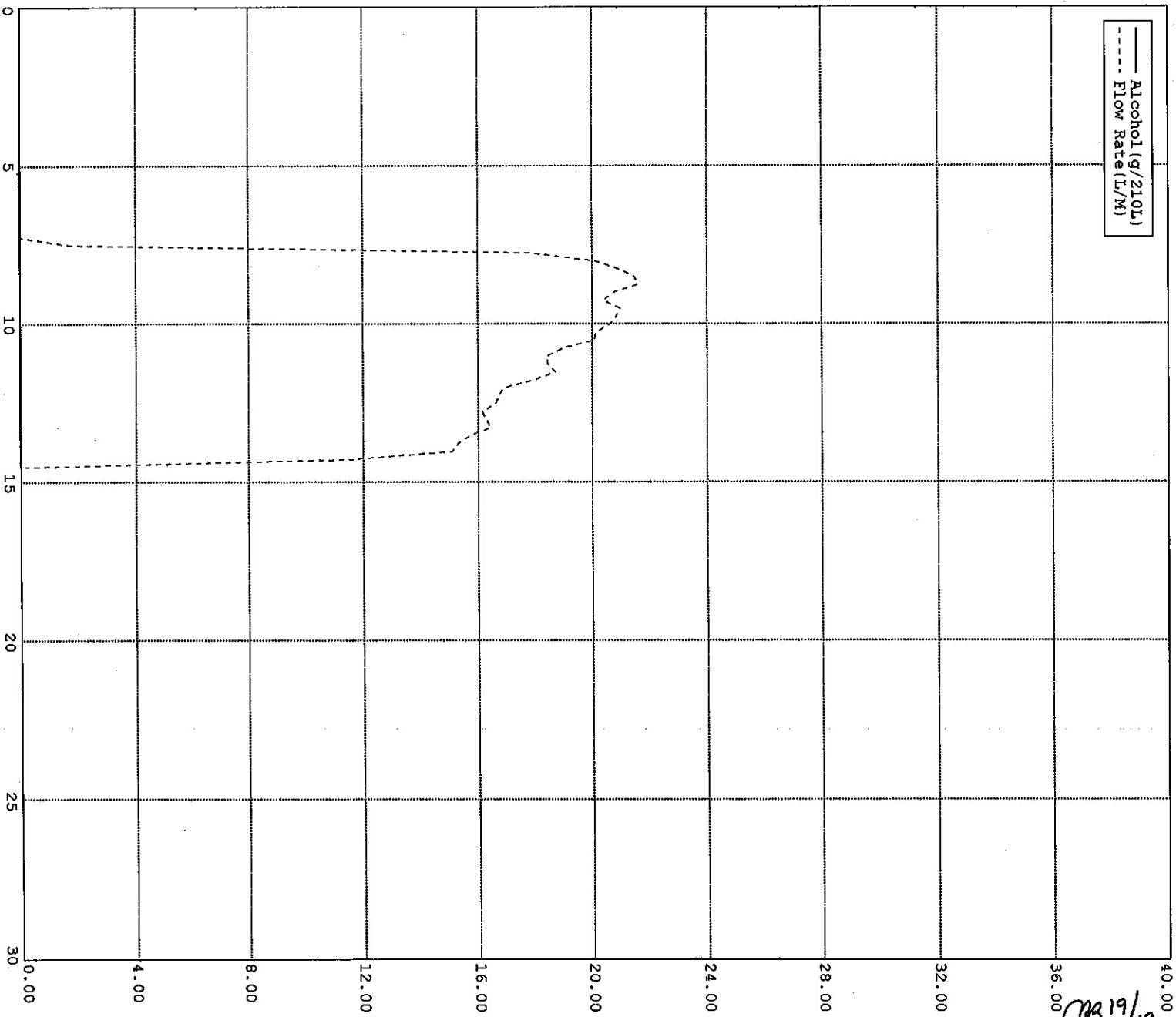
OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.09: 0.080
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:11
BLANK TEST	0.000	09:11
INTERNAL STANDARD	VERIFIED	09:11
EXTERNAL STANDARD	0.080	09:12
BLANK TEST	0.000	09:13
SUBJECT SAMPLE	0.000	09:13
BLANK TEST	0.000	09:14
EXTERNAL STANDARD	0.080	09:14
BLANK TEST	0.000	09:15

CRB



CRB 19/10

Final page for report

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7/10/2014