

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100424 Analyst Colleen O'Bryant Start Date 3/20/13

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 1600 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 27612080A1 Exp 9/1/14

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

v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/13

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

vi. 0.300g/210L Mnf Guth Lot 12050 Exp 3/1/14

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 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N DR5298 Date Calibrated 10/8/2012

ii. Isopropanol - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N SD1202 Date Calibrated 10/9/12

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. 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 3/20/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dnt: 100424

Date: 03/20/2013
Time: 08:39:14

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 46.3°C PASSED

PUMP INFO

Flow Rate = 3.722 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 3/19

Technician Screen

DATAMASTER dmt: 100424

Date: 03/20/2013
Time: 8:41 AM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 46.5°C

Current Barometer 29.5 in
Volume (Ltr) 1.47

Settings

Lamp: 1.65 V
Bias: 80 V
Cooler: 1.76 V
Chopper: 521 Hz

Voltages (V)

Flow: 1.04 V
Detector: -0.009 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100424

Date: 03/20/2013
Time: 08:25:01

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

Ca	=	0.1000		
CAL	=	0.967766	0.800	<= CAL < 1.200
b1	=	0.0008	0.0000	<= b1 < 0.0040
b2	=	0.0050	0.0010	<= b2 < 0.0100
b3	=	0.0004	0.0000	<= b3 < 0.0040
Xq	=	0.0820	0.0500	<= Xq < 0.2000
a21	=	1.144685	1.050	<= a21 < 1.300
a31	=	0.406972	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100424

Date: 03/20/2013
 Time: 08:42:25

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

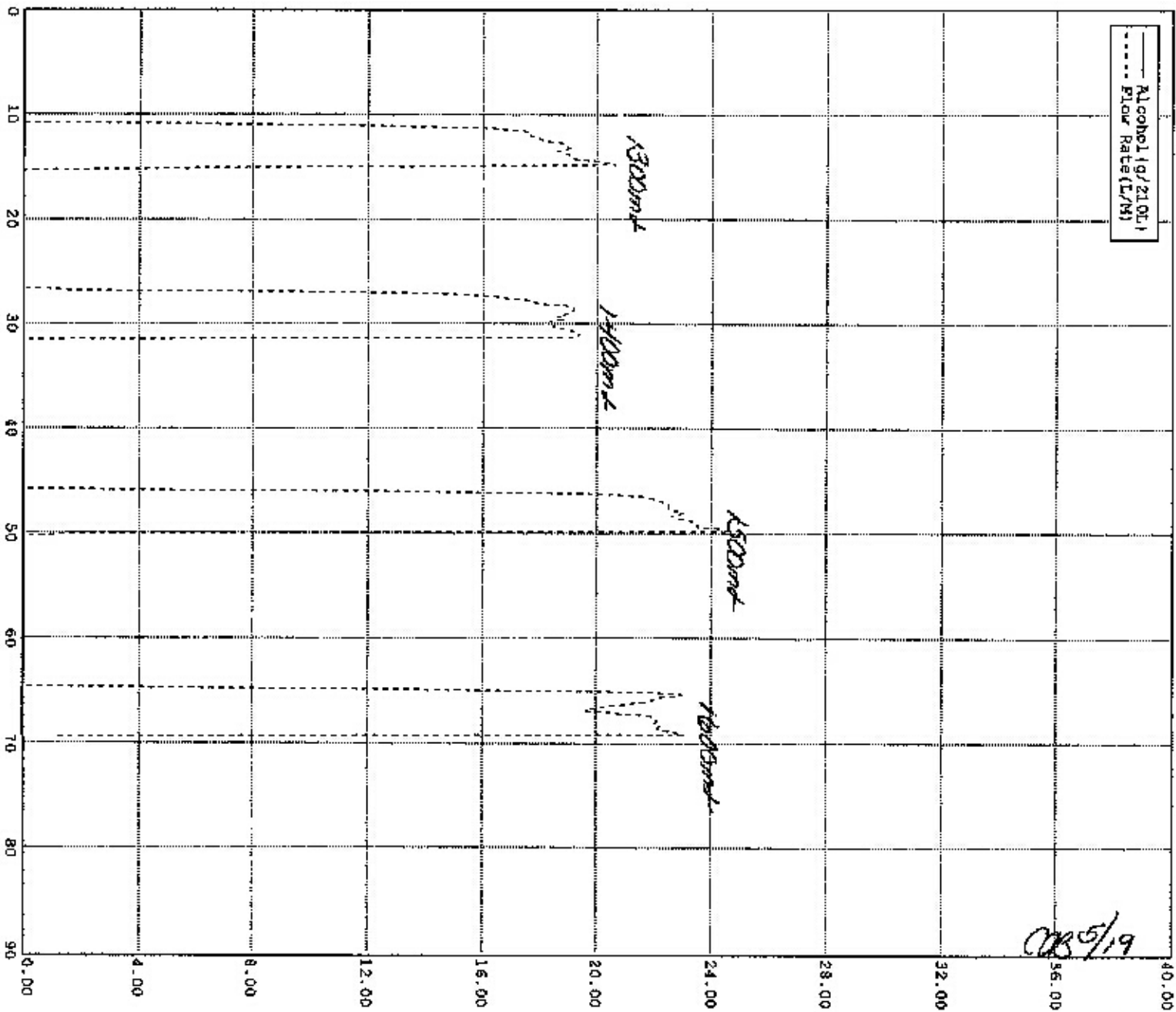
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.54: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	08:43
BLANK TEST	0.000	08:43
INTERNAL STANDARD	VERIFIED	08:43
EXTERNAL STANDARD	0.077	08:43
BLANK TEST	0.000	08:44
SUBJECT SAMPLE	0.000	08:46
BLANK TEST	0.000	08:47
EXTERNAL STANDARD	0.077	08:47
BLANK TEST	0.000	08:48

CAS



CAS 5/19

LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dnt: 100424

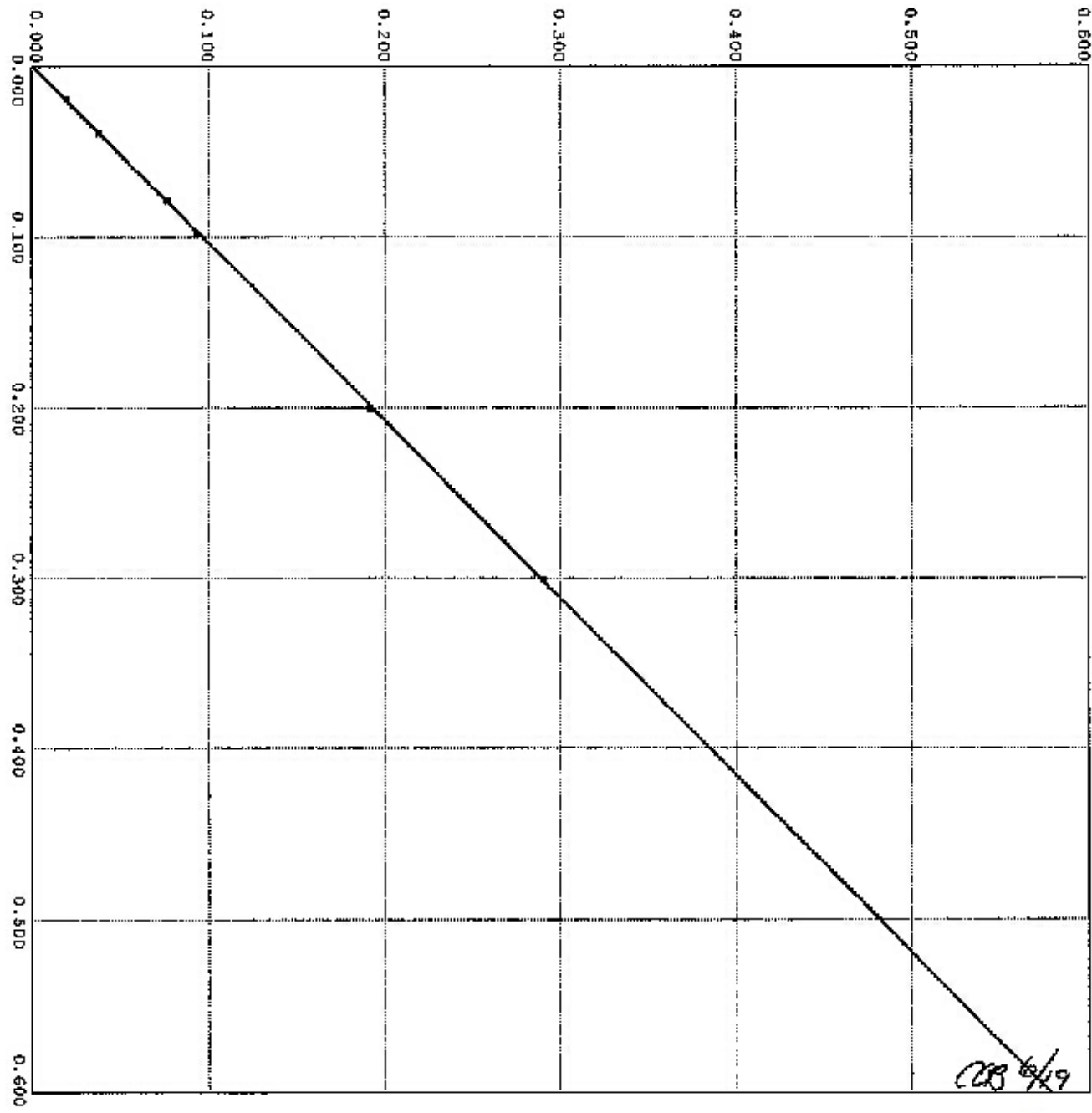
Date: 03/20/2013
 Time: 08:49:34

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0205	0.0003
0.039	0.0390	0.0005
0.078	0.0775	0.0006
0.098	0.0941	0.0001
0.200	0.1927	0.0005
0.300	0.2912	0.0006

SLOPE = 0.962391
 R² = 0.999869

COR



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100424

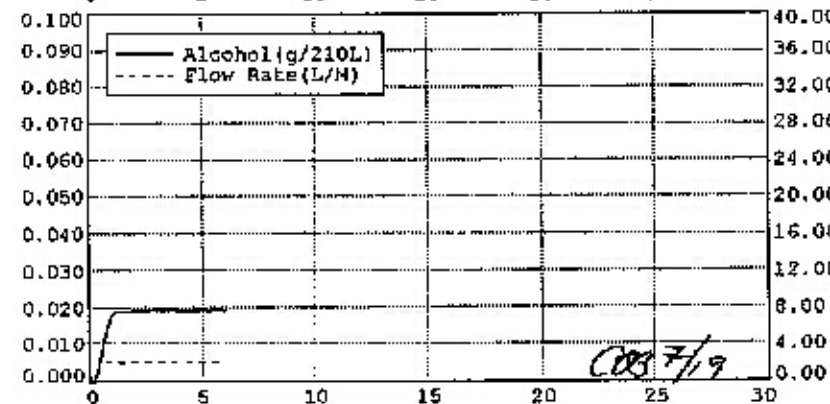
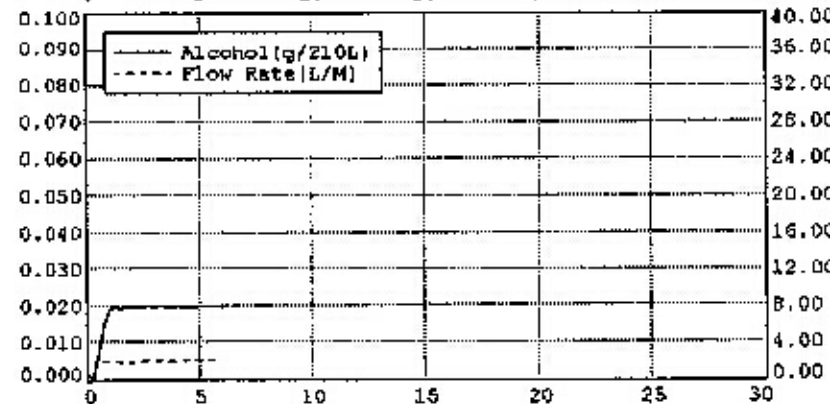
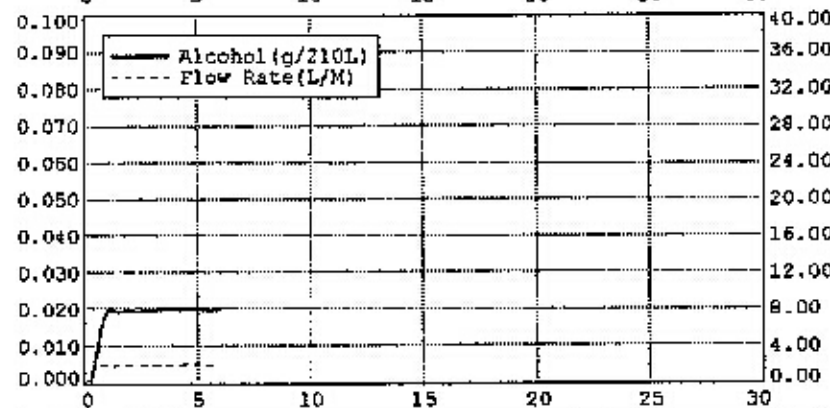
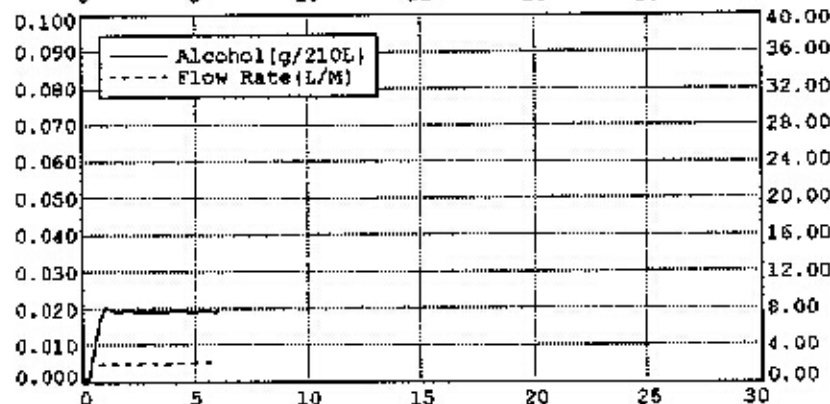
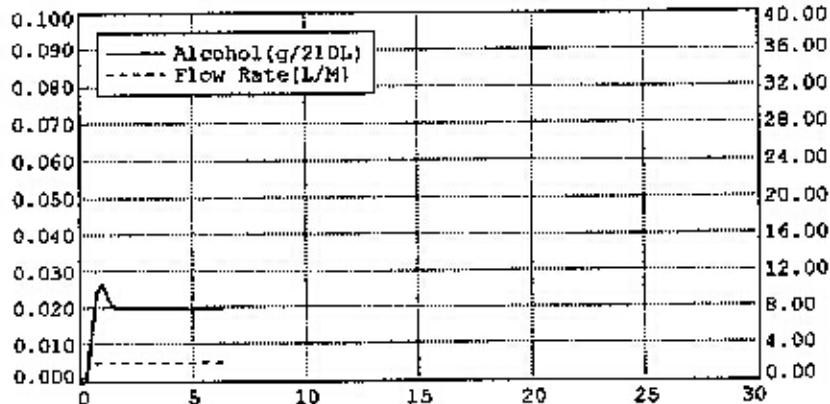
Date: 03/20/2013
 Time: 08:49:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.54: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	08:50
INTERNAL STANDARD	VERIFIED	08:50
EXTERNAL STANDARD	0.020	08:50
BLANK TEST	0.000	08:51
EXTERNAL STANDARD	0.020	08:52
BLANK TEST	0.000	08:52
EXTERNAL STANDARD	0.020	08:53
BLANK TEST	0.000	08:54
EXTERNAL STANDARD	0.020	08:54
BLANK TEST	0.000	08:55
EXTERNAL STANDARD	0.020	08:55
BLANK TEST	0.000	08:56

Average = 0.0205
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

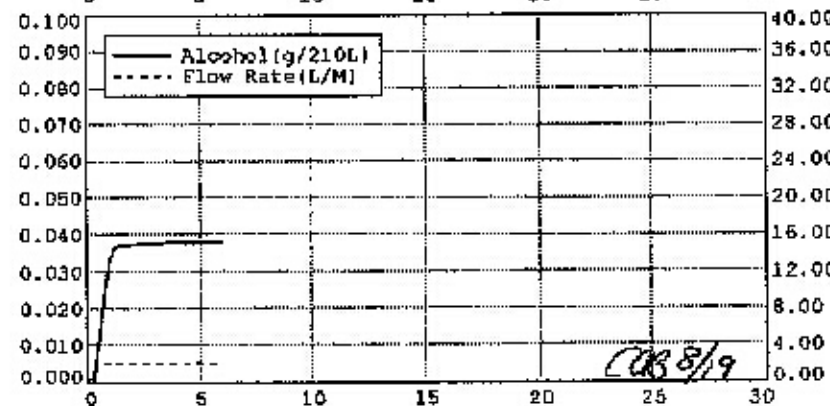
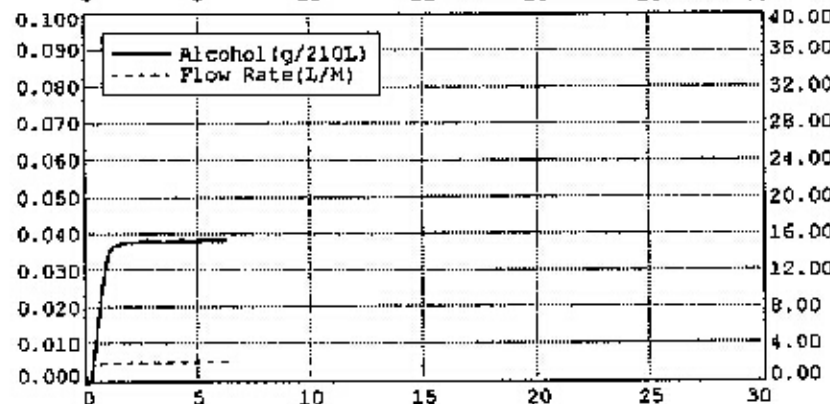
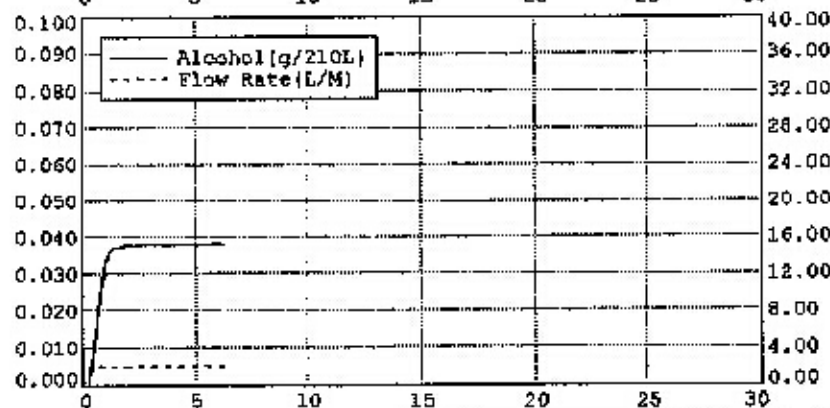
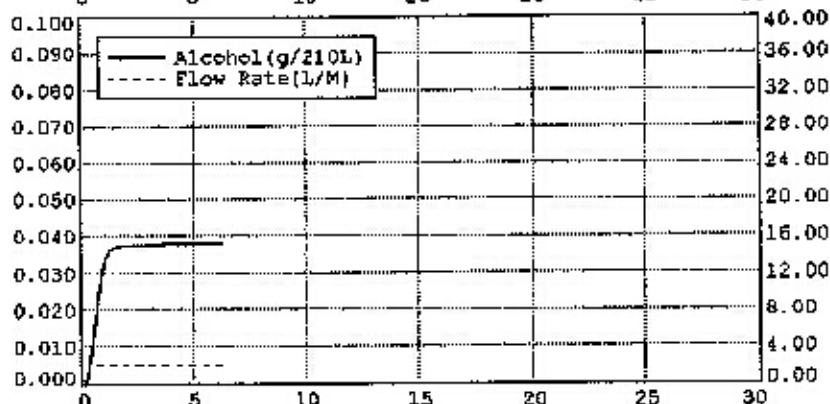
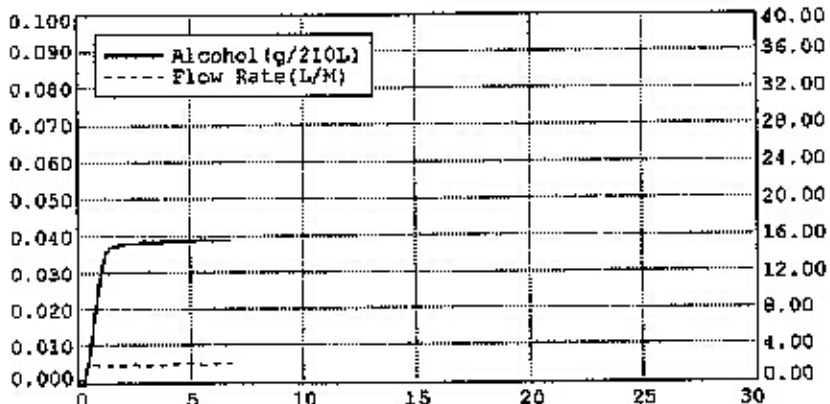
Alaska Department of Public Safety
 DATAMASTER dnt: 100424

Date: 03/20/2013
 Time: 08:57:04

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.54: 0.039
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	08:58
INTERNAL STANDARD	VERIFIED	08:58
EXTERNAL STANDARD	0.039	08:58
BLANK TEST	0.000	08:59
EXTERNAL STANDARD	0.039	08:59
BLANK TEST	0.000	09:00
EXTERNAL STANDARD	0.038	09:00
BLANK TEST	0.000	09:01
EXTERNAL STANDARD	0.039	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.038	09:02
BLANK TEST	0.000	09:03

Average = 0.0390
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

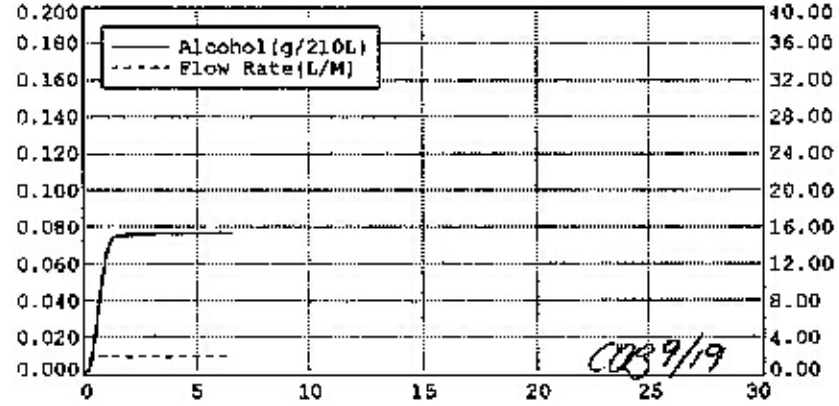
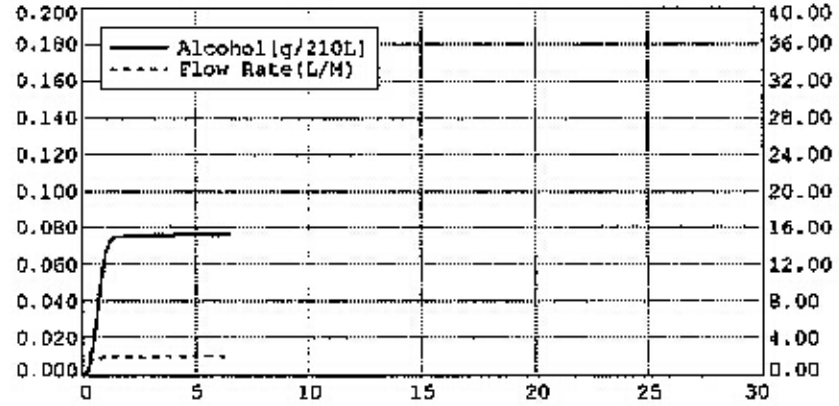
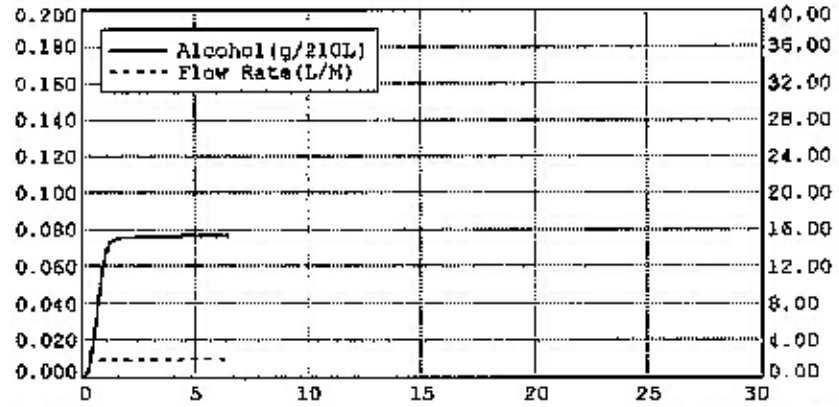
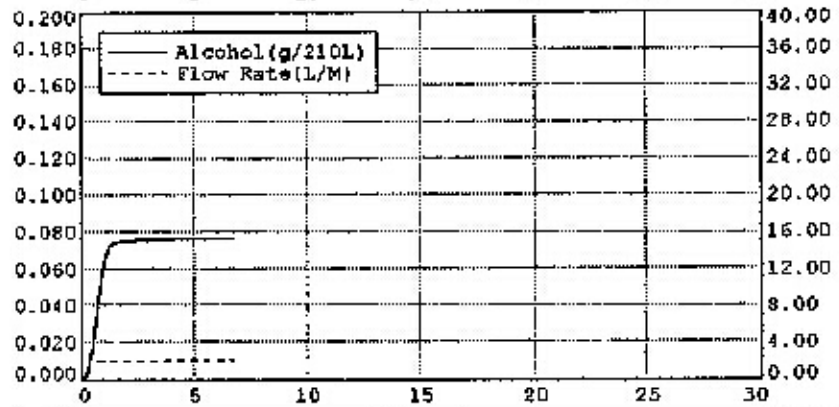
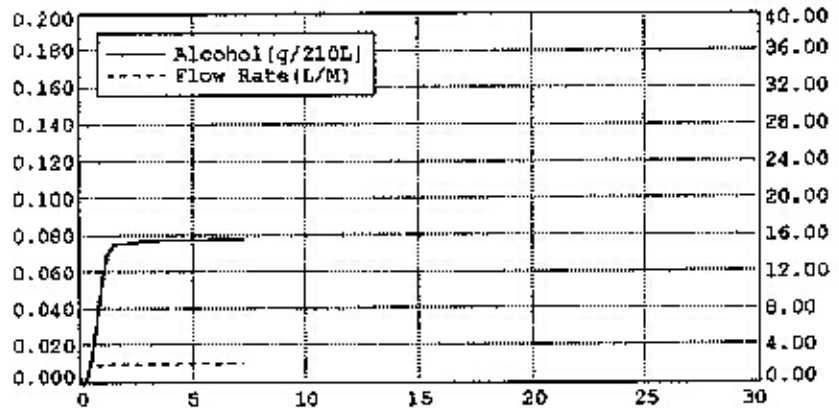
Alaska Department of Public Safety
 DATAMASTER dat: 100424

Date: 03/20/2013
 Time: 09:04:19

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.54: 0.078
 LOT #: 22512080A1
 EXPIRATION: 09/01/2014

BLANK TEST	0.000	09:05
INTERNAL STANDARD	VERIFIED	09:05
EXTERNAL STANDARD	0.078	09:05
BLANK TEST	0.000	09:06
EXTERNAL STANDARD	0.077	09:06
BLANK TEST	0.000	09:07
EXTERNAL STANDARD	0.077	09:08
BLANK TEST	0.000	09:08
EXTERNAL STANDARD	0.077	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.077	09:10
BLANK TEST	0.000	09:11

Average = 0.0775
 Std Dev = 0.0006



LINEARITY CHECK: Control Test 4

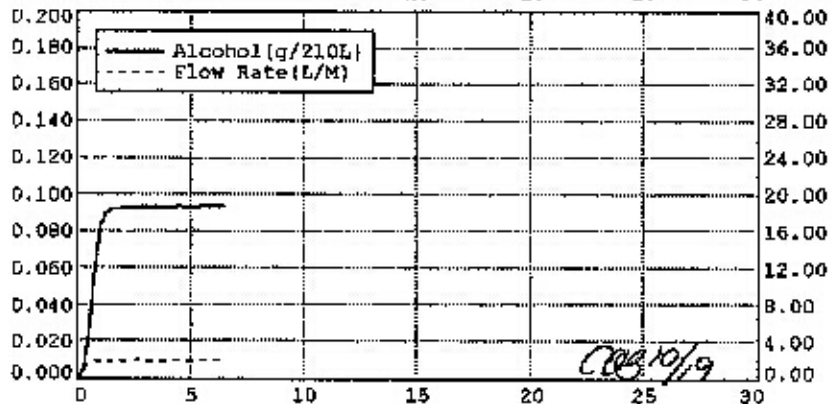
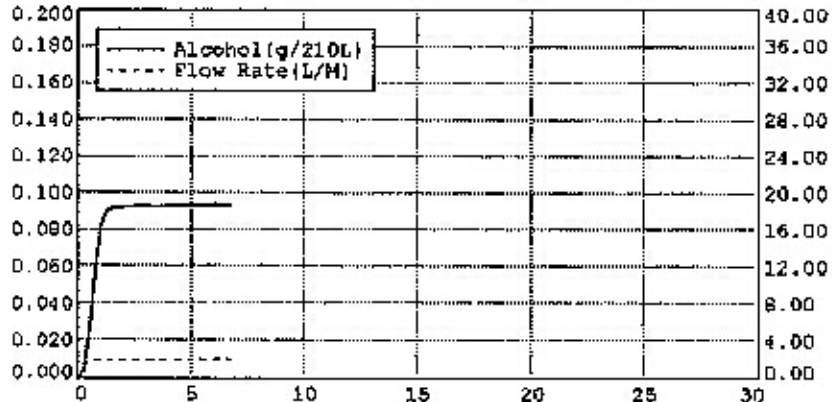
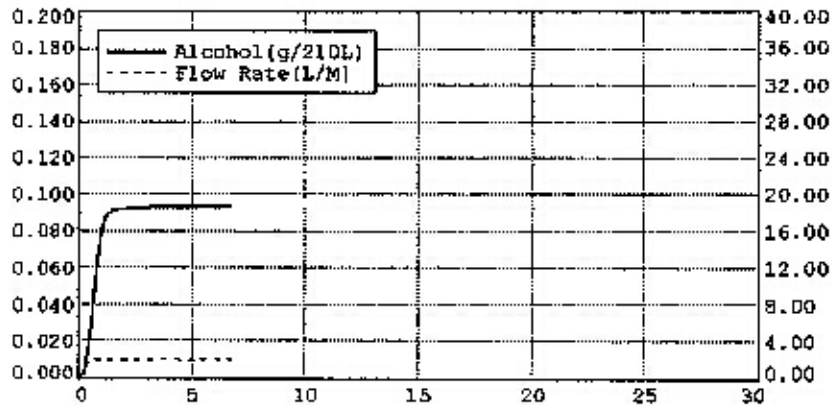
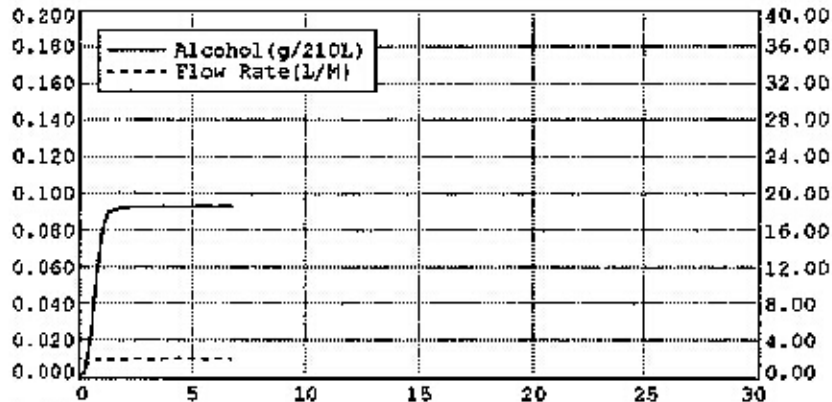
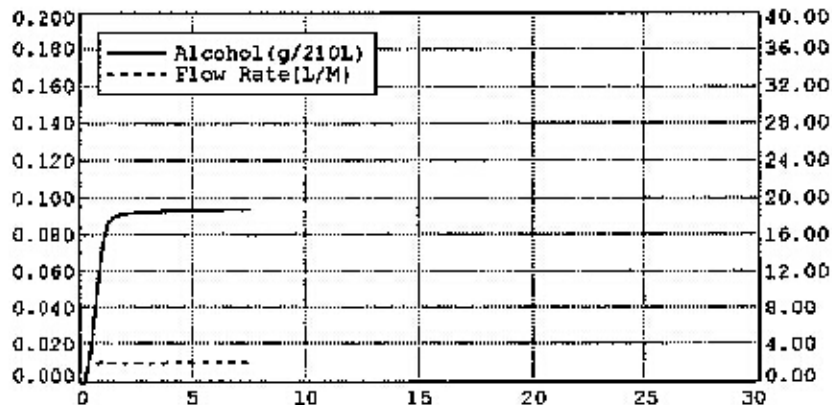
Alaska Department of Public Safety
 DATAMASTER dnt: 100424

Date: 03/20/2013
 Time: 09:12:28

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AF 29.54: 0.098
 LOT #: 00831310073 COB 310073
 EXPIRATION: 03/01/2015 COB 31013

BLANK TEST	0.000	09:13
INTERNAL STANDARD	VERIFIED	09:13
EXTERNAL STANDARD	0.094	09:13
BLANK TEST	0.000	09:14
EXTERNAL STANDARD	0.094	09:15
BLANK TEST	0.000	09:16
EXTERNAL STANDARD	0.094	09:16
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.093	09:17
BLANK TEST	0.000	09:18
EXTERNAL STANDARD	0.094	09:18
BLANK TEST	0.000	09:19

Average = 0.0941
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100424

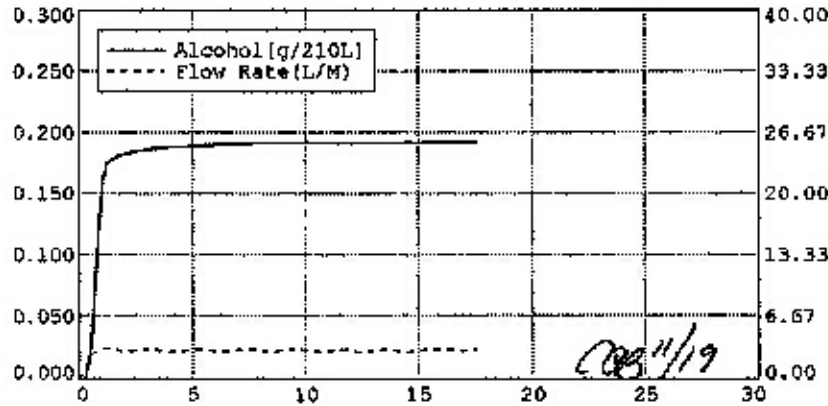
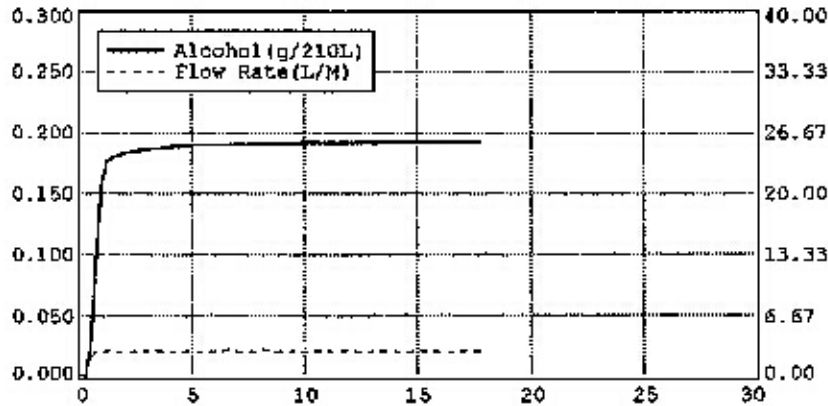
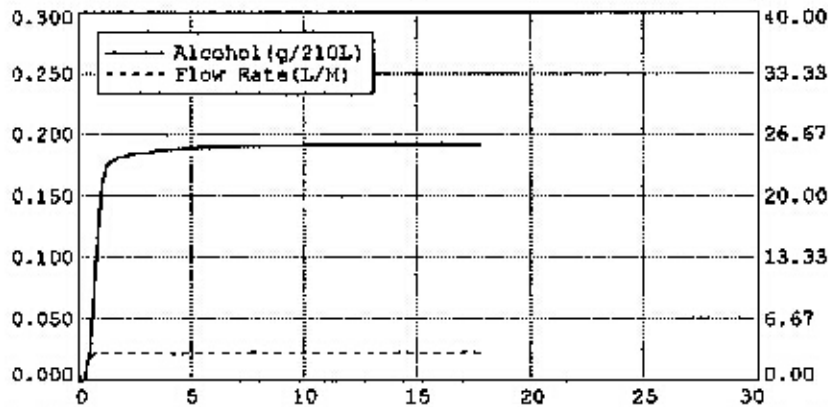
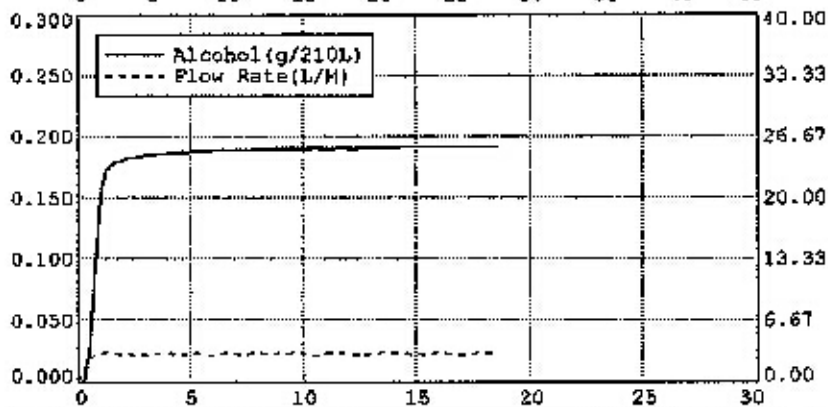
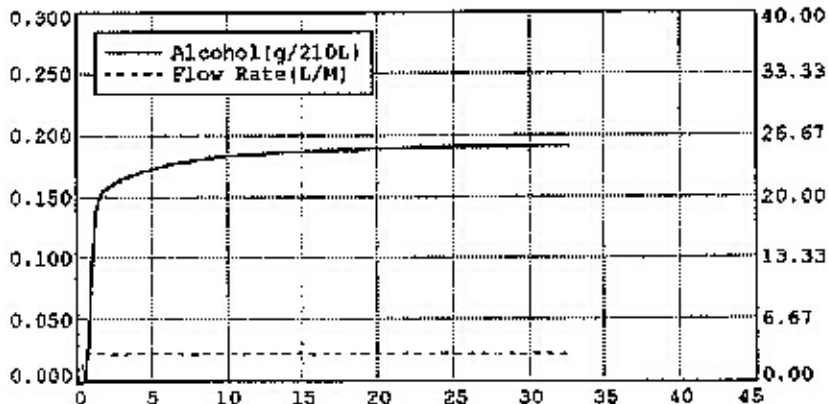
Date: 03/20/2013
 Time: 09:23:01

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	09:24
INTERNAL STANDARD	VERIFIED	09:24
EXTERNAL STANDARD	0.192	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.192	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.192	09:27
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.192	09:28
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.193	09:30
BLANK TEST	0.000	09:31

Average = 0.1927
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dnt: 100424

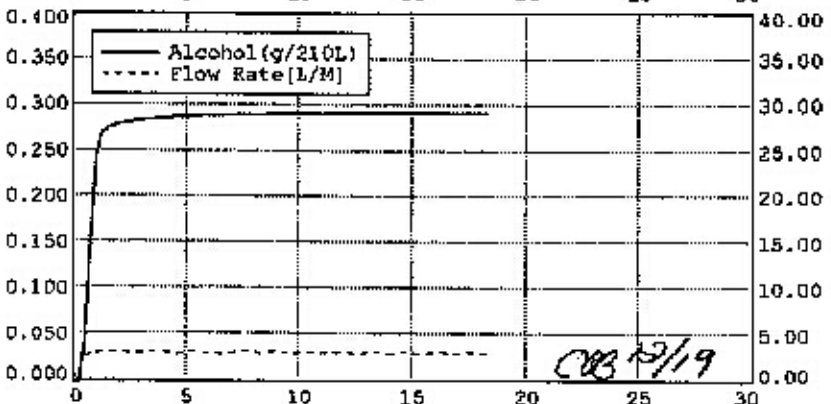
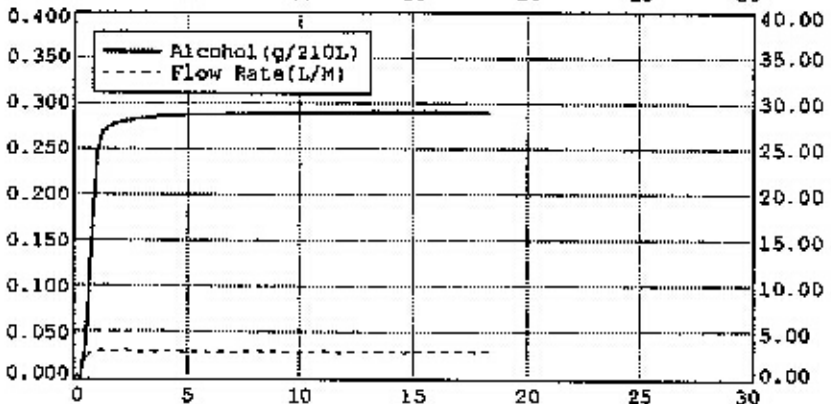
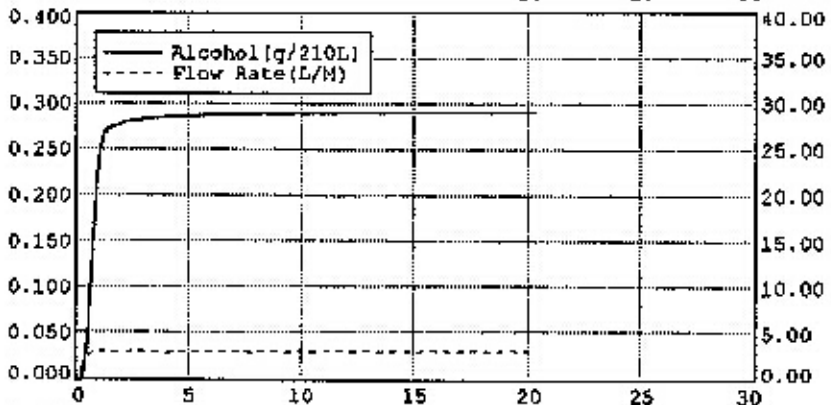
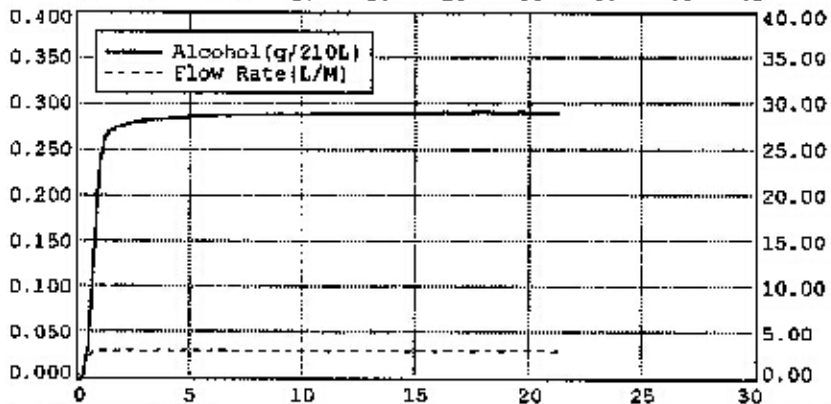
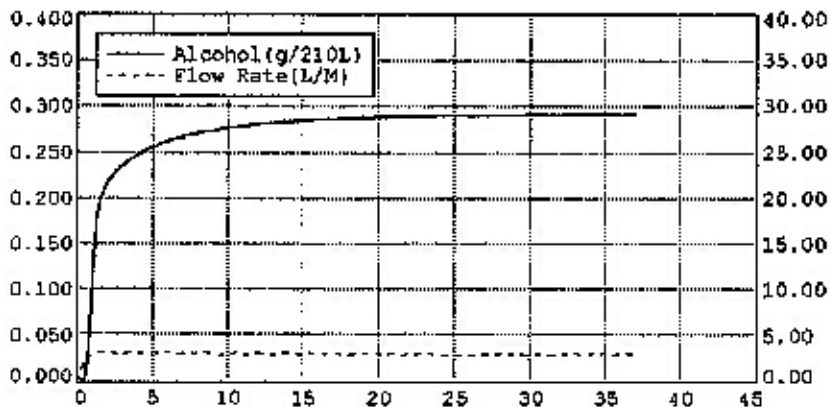
Date: 03/20/2013
 Time: 09:33:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 12050
 EXPIRATION: 03/21/2014

BLANK TEST	0.000	09:34
INTERNAL STANDARD	VERIFIED	09:34
EXTERNAL STANDARD	0.291	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.290	09:36
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.290	09:38
BLANK TEST	0.000	09:39
EXTERNAL STANDARD	0.291	09:39
BLANK TEST	0.000	09:40
EXTERNAL STANDARD	0.291	09:40
BLANK TEST	0.000	09:41

Average = 0.2912
 Std Dev = 0.0006



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER det: 100424

Date: 03/20/2013
 Time: 09:48:56

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

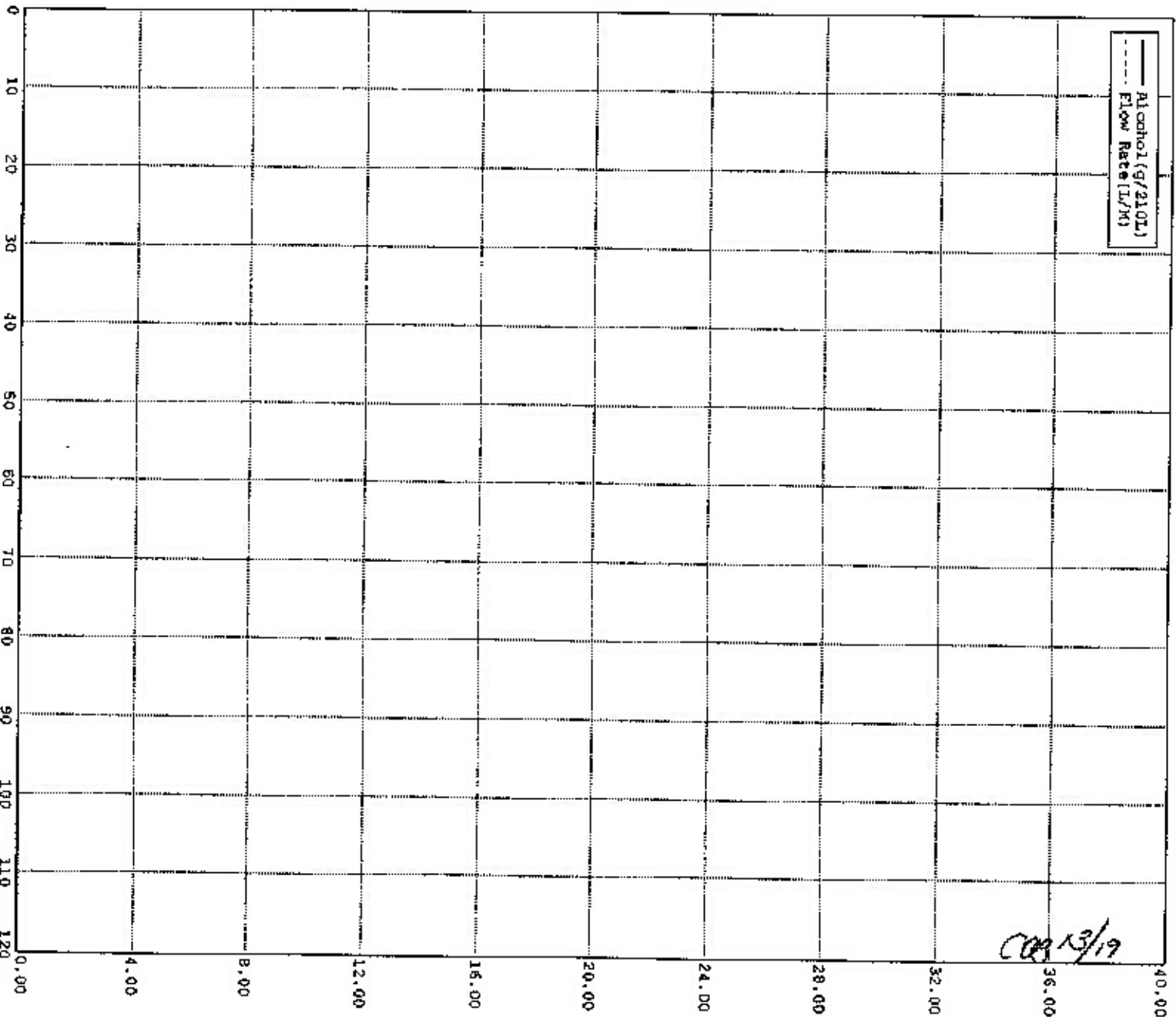
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.53: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	09:49
BLANK TEST	0.000	09:50
INTERNAL STANDARD	VERIFIED	09:50
EXTERNAL STANDARD	0.077	09:50
BLANK TEST	0.000	09:51
SUBJECT SAMPLE	INCOMPLETE	09:53

CRB



SUBJECT TEST

Alaska Department of Public Safety
 DATAACSTR dnt: 100424

Date: 03/20/2013
 Time: 09:58:21

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

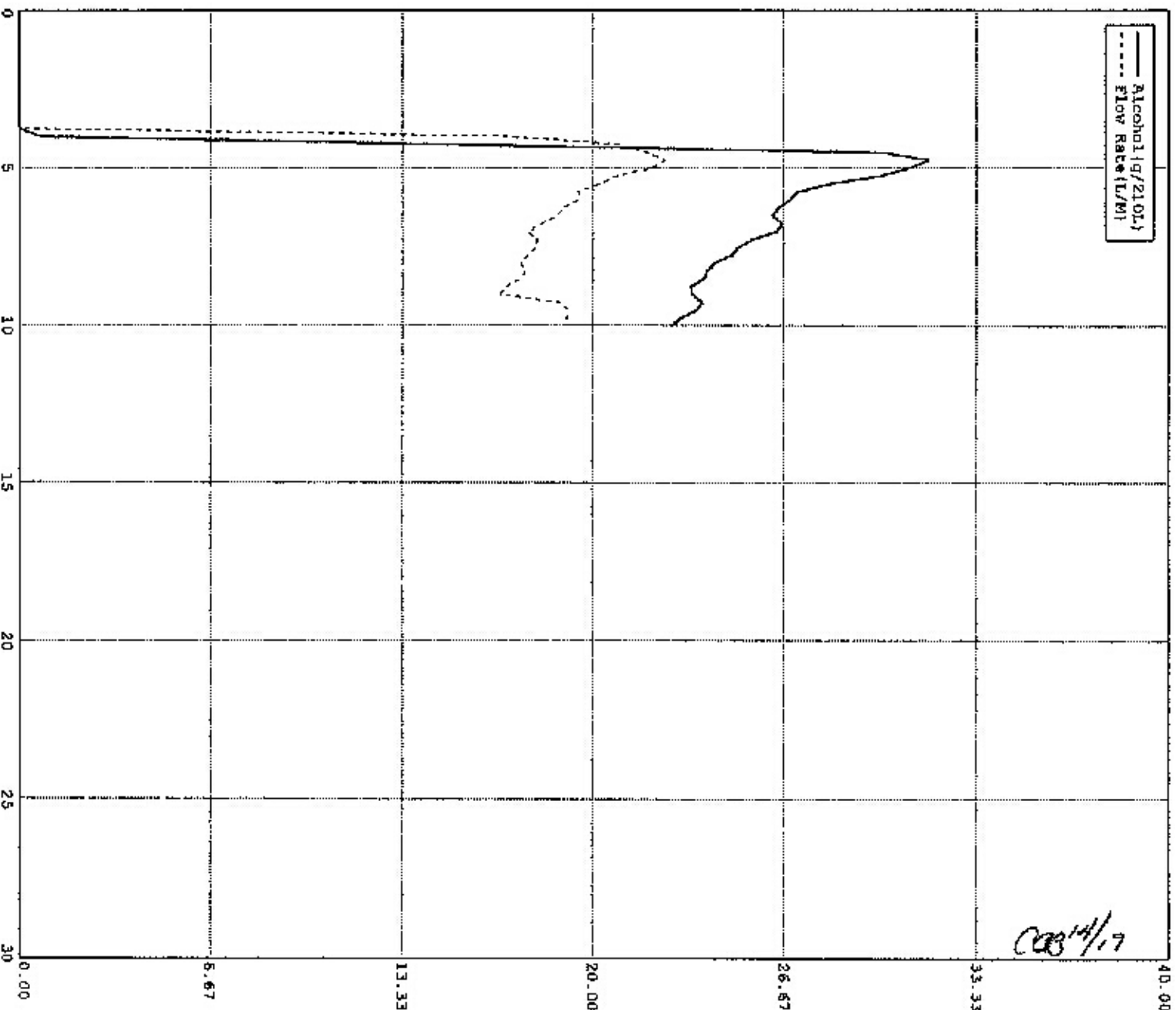
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AP 29.53: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:00
BLANK TEST	0.000	10:00
INTERNAL STANDARD	VERIFIED	10:00
EXTERNAL STANDARD	0.076	10:01
BLANK TEST	0.000	10:02
SUBJECT SAMPLE	INVALID	10:02

CS



CS 3/17

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100424

Date: 03/20/2013
 Time: 10:24:40

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

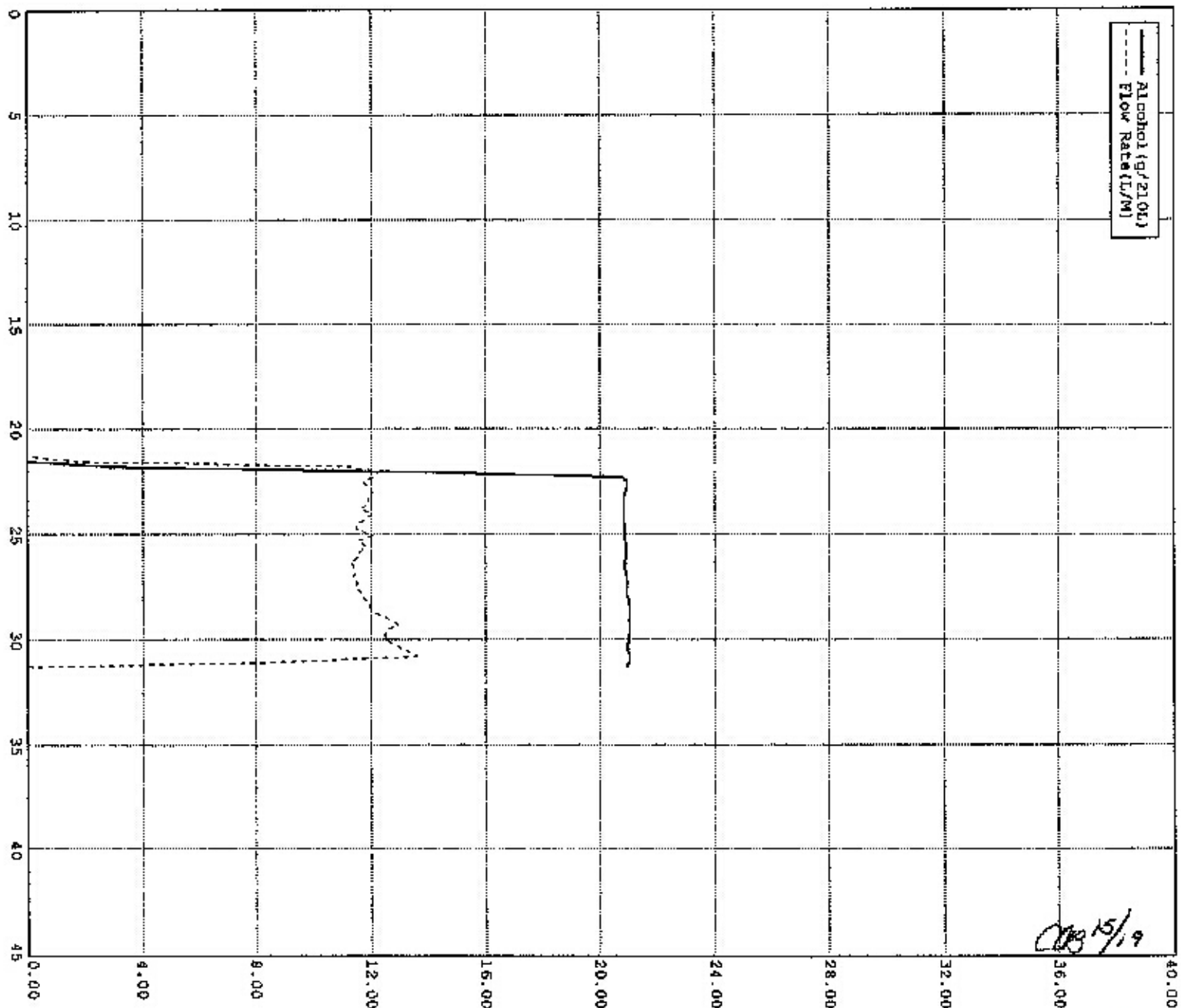
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAl
 CASE/REPORT: -
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.54: 0.078
 LOT #: Z2612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:27
BLANK TEST	0.000	10:27
INTERNAL STANDARD	VERIFIED	10:27
K ₁ = 0.082 (0.008)		
EXTERNAL STANDARD	0.077	10:27
X[1] = 0.0779 (-0.0010) (0.0029)		
BLANK TEST	0.000	10:28
SUBJECT SAMPLE	INTERFERENCE	10:29
X[1] = 0.1051 (-0.0186) (0.0003)		

CS



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100424

Date: 03/20/2013
 Time: 10:32:17

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

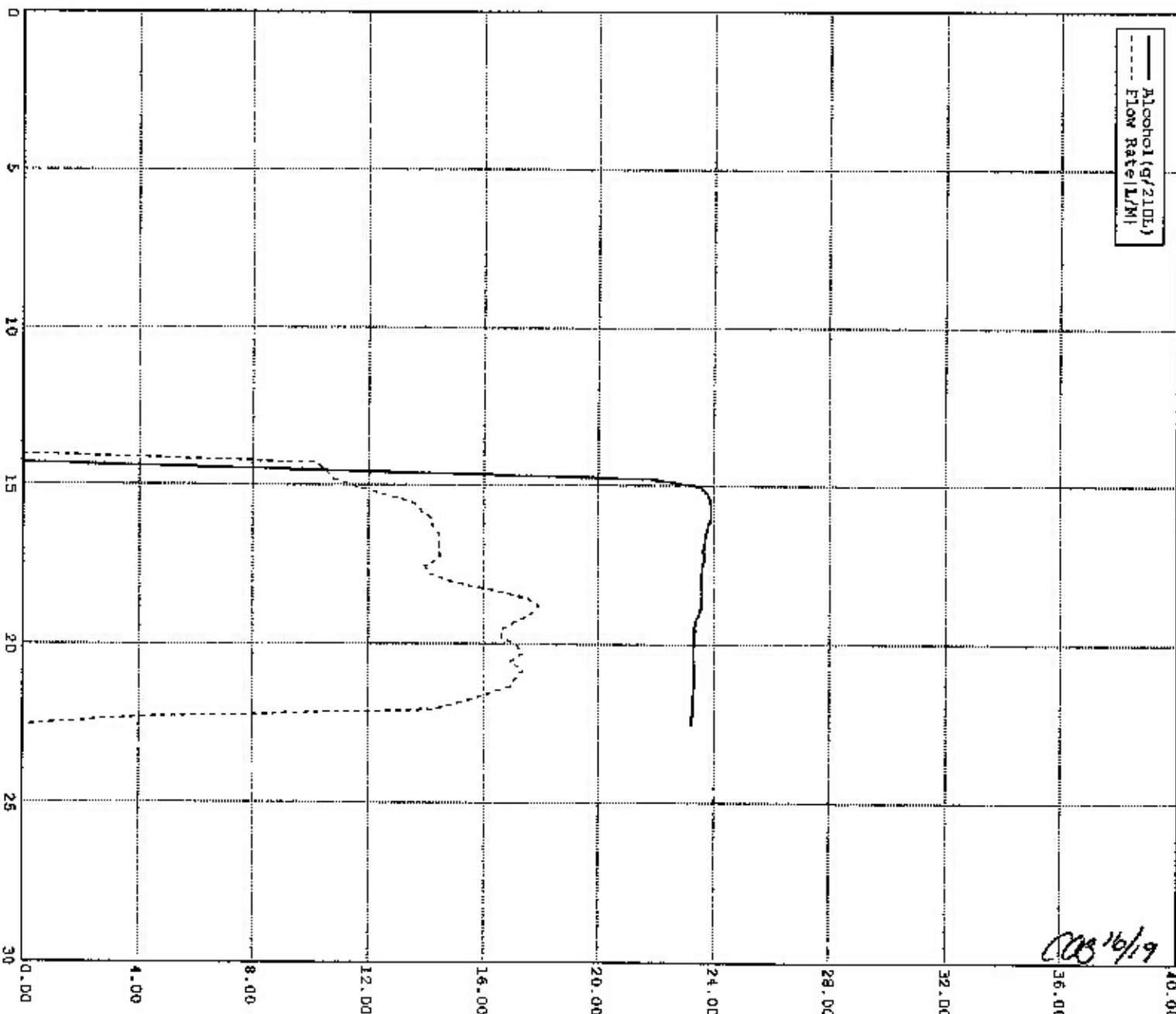
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.54: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:33
BLANK TEST	0.000	10:33
INTERNAL STANDARD	VERIFIED	10:33
X[1] = 0.082 (0.42%)		
EXTERNAL STANDARD	0.077	10:33
X[1] = 0.078 (-0.0004) (0.0029)		
BLANK TEST	0.000	10:34
SUBJECT SAMPLE	INTERFERENCE	10:35
X[1] = 0.1163 (-0.0194) (0.0027)		

CS



CS 3/19/13

SUBJECT TEST

Alaska Department of Public Safety
 DATABASE# dnt: 100424

Date: 03/20/2013
 Time: 10:36:47

SUBJECT NAME:
 TEST TEST
 LICENSE #: NEGATIVE CNT

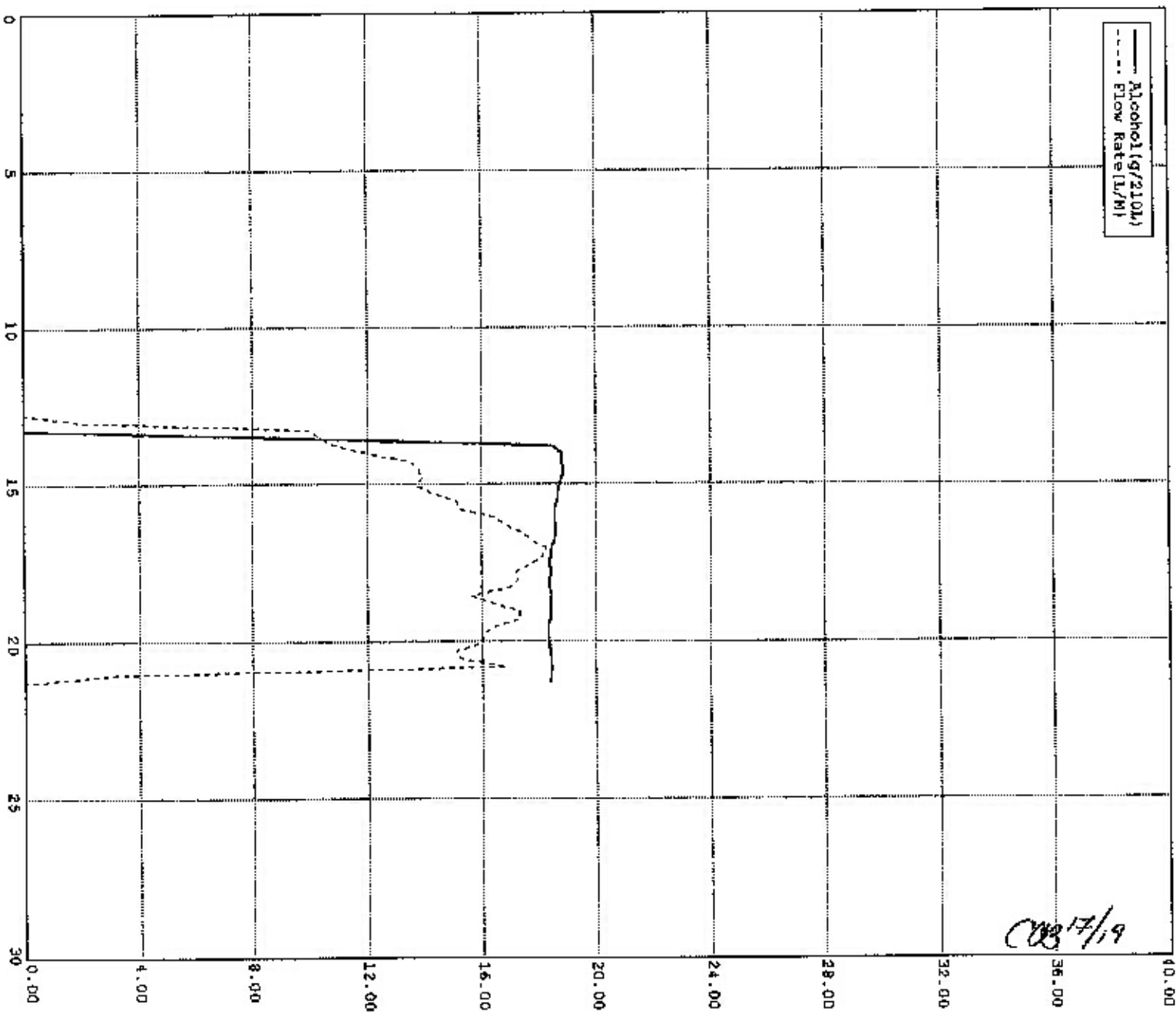
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAI
 CASE/REPORT: 13-1234
 TEST YEAR: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.54: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	10:37
BLANK TEST	0.000	10:37
INTERNAL STANDARD	VERIFIED	10:38
Kg = 0.082 (0.21%)		
EXTERNAL STANDARD	0.077	10:38
X[1] = 0.0779 (-0.0008) (0.0028)		
BLANK TEST	0.000	10:39
SUBJECT SAMPLE (Vol=2.02L)	0.091	10:39
X[1] = 0.0919 (0.0011) (0.0013)		
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.077	10:40
X[1] = 0.0770 (-0.0018) (0.0025)		
BLANK TEST	0.000	10:41

CS



CS 3/17/13

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100424

Date: 03/20/2013
 Time: 10:42:56

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

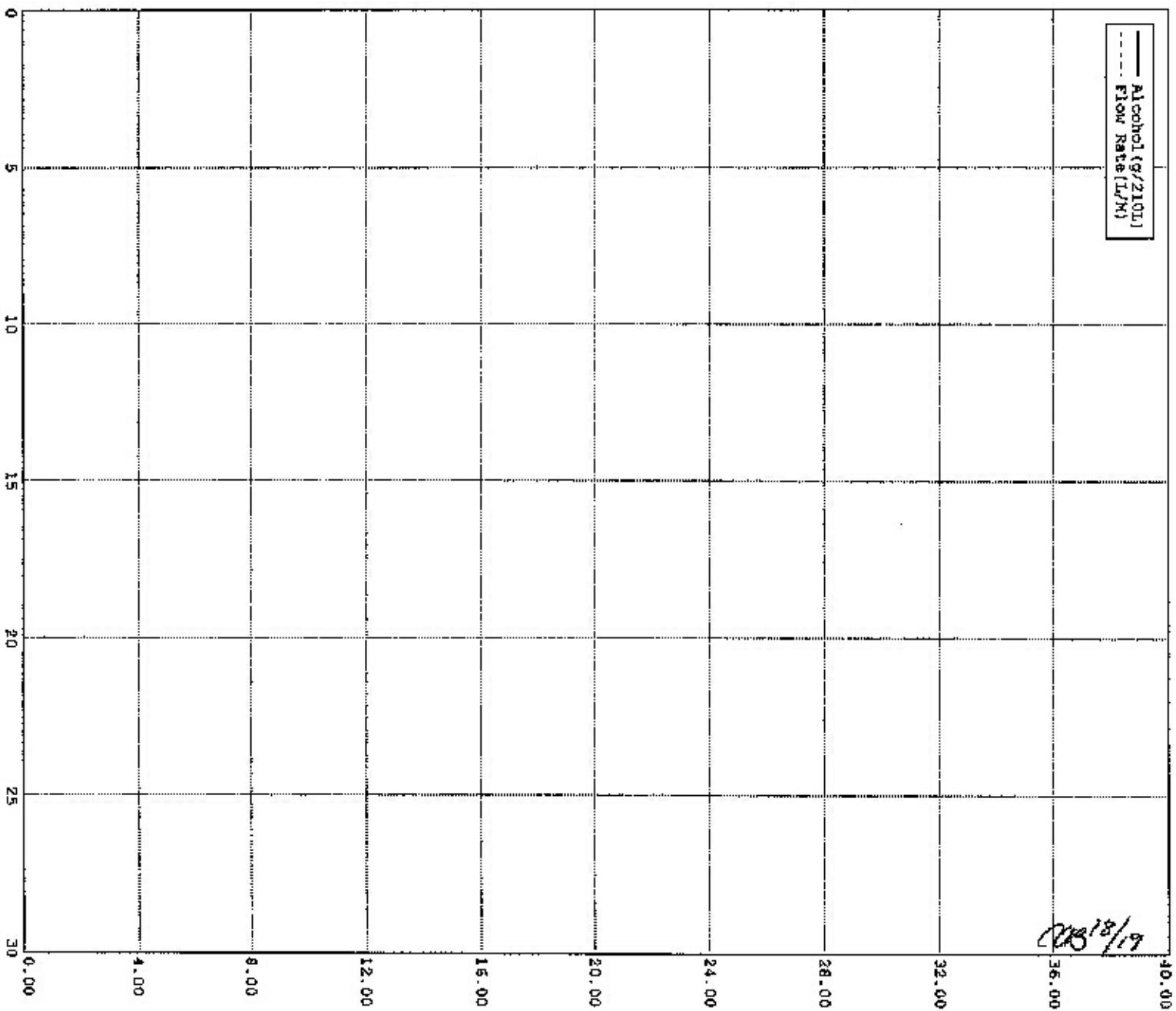
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.54: 0.078
 LOT #: 22612090A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK
 BLANK TEST PASSED 10:43
 INTERNAL STANDARD 0.000 10:44
 EXTERNAL STANDARD VERIFIED 10:44
 0.078 10:44
 BLANK TEST 0.000 10:45

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100424

Date: 03/20/2013
 Time: 10:59:16

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON DRINKING

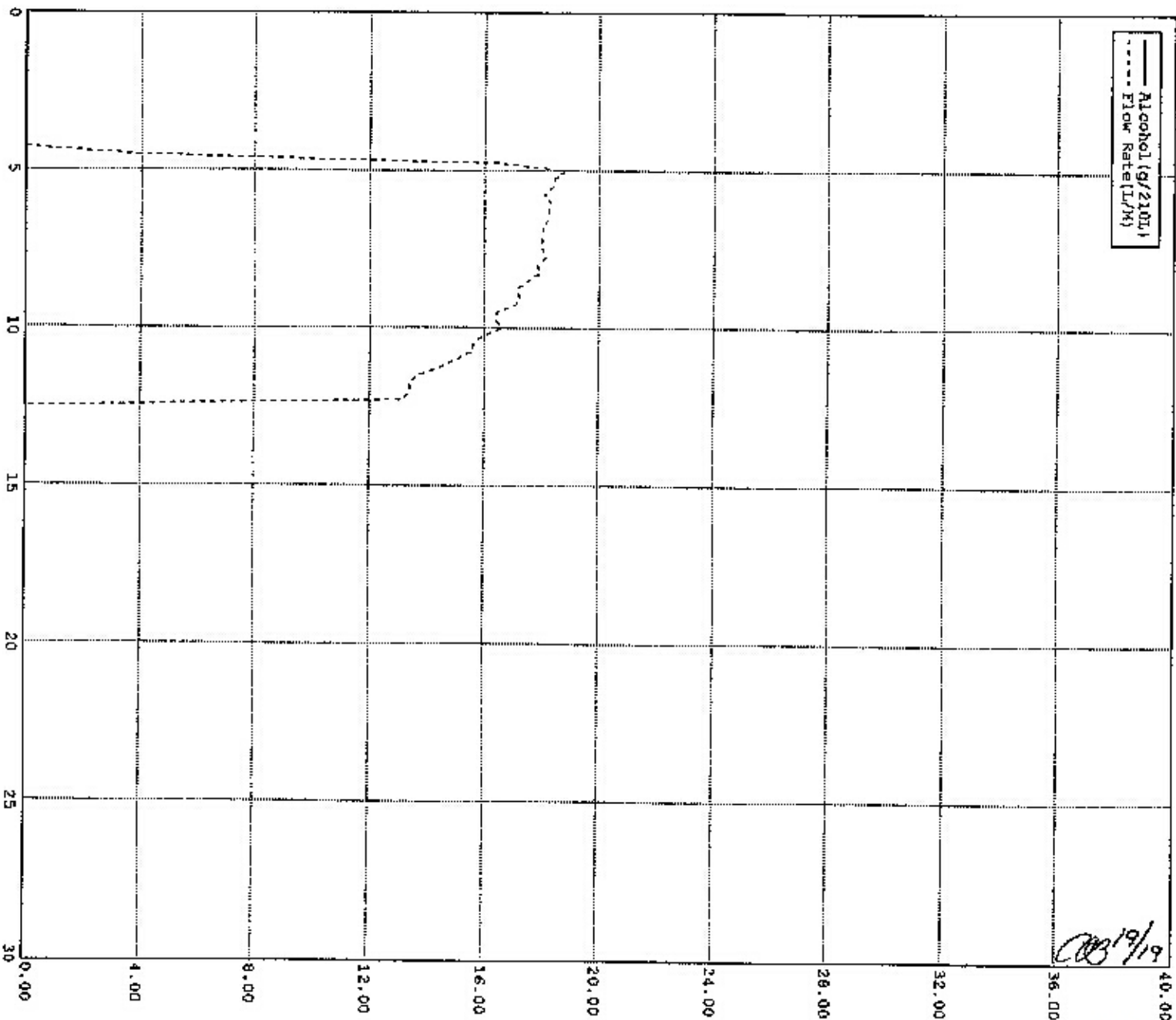
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.55: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	11:00
BLANK TEST	0.000	11:00
INTERNAL STANDARD	VERIFIED	11:00
EXTERNAL STANDARD	0.078	11:00
BLANK TEST	0.000	11:01
SUBJECT SAMPLE	0.000	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.077	11:03
BLANK TEST	0.000	11:03

NOB



NOB 3/19/13

Final page for report

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2/13/2014