

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100363 Analyst Colleen O'Bryant Start Date 09/07/12

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 1300 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒

i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013

ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013

iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2014

iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013

v. 0.200g/210L Mnf GUTH Lot 11120 Exp 07/13/2013

1. Simulator S/N DR4178 Date Calibrated 02/21/2012

vi. 0.300g/210L Mnf GUTH Lot 11110 Exp 07/13/2013

1. Simulator S/N SD1198 Date Calibrated 01/10/2012

5. Functional Tests (attached)

a. Incomplete ☒

b. Invalid ☒

c. Interference ☒

i. Acetone - Mnf GUTH Lot 11250 Level 0.100 Exp 12/6/13

1. Simulator S/N SD1199 Date Calibrated 01/11/12

ii. Isopropanol - Mnf GUTH Lot 11100 Level 0.100 Exp 7/6/13

1. Simulator S/N DR6267 Date Calibrated 01/10/12

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

1. Simulator S/N DR4176 Date Calibrated 2/6/12

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 9/12/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 09/07/2012
Time: 13:16:06

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 46.5°C	PASSED

PUMP INFO
Flow Rate = 5.414 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: 100363

Date: 09/07/2012

Time: 1:28 PM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 46.9°C

Current Barometer 29.8 in

Volume (Ltr) 1.58

Settings

Lamp: 1.74 V

Bias: 80 V

Cooler: 1.71 V

Chopper: 525 Hz

Voltages (V)

Flow: 1.05 V

Detector: -0.092 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 04/26/2011
Time: 08:24:29

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2012

Ca = 0.1000
CAL = 0.982000 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0049 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0808 0.0500 <= Xq < 0.2000
a21 = 1.164486 1.050 <= a21 < 1.300
a31 = 0.451262 0.300 <= a31 < 0.800

SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100363

Date: 09/07/2012
 Time: 13:39:57

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

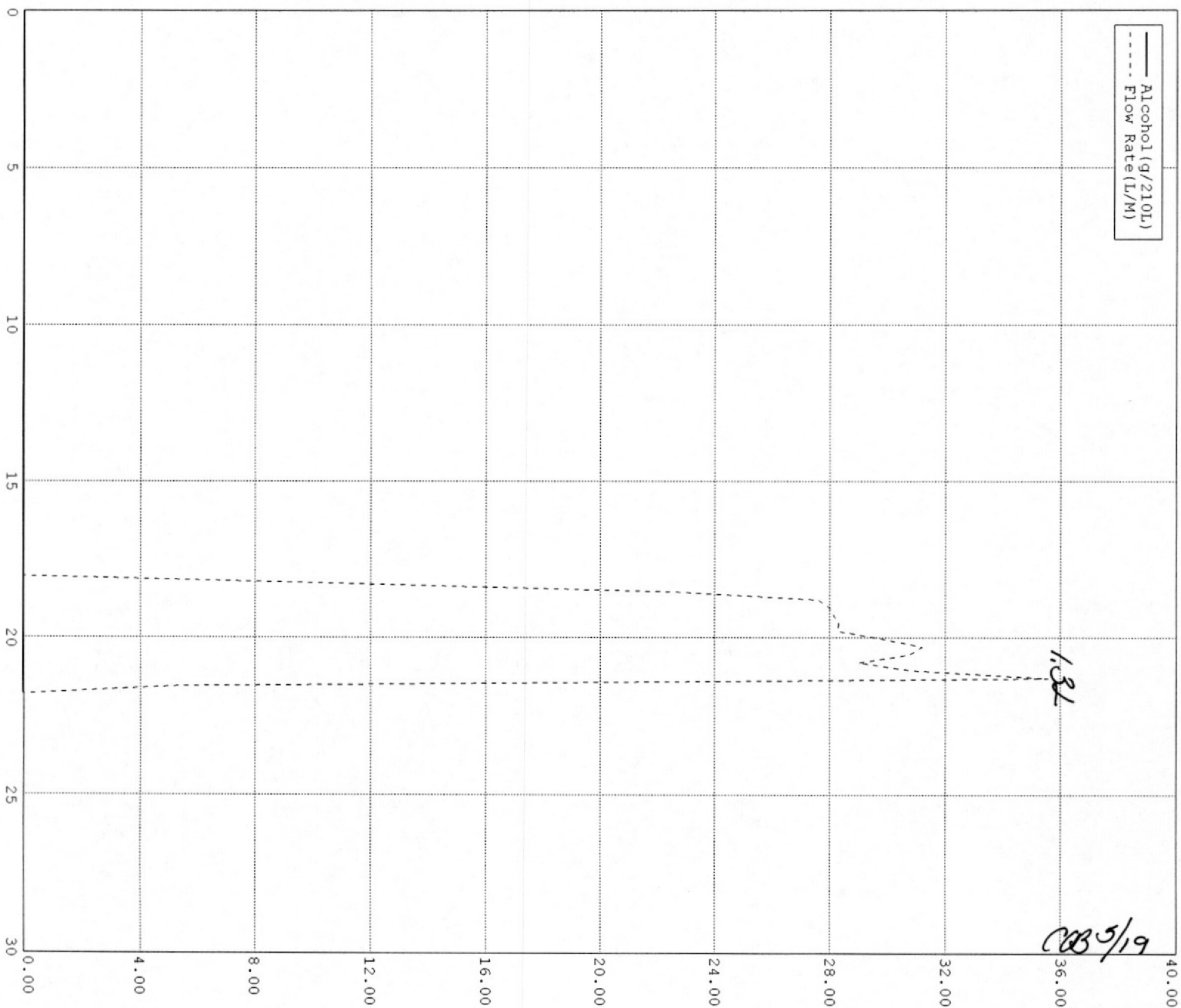
OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.82: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:43
BLANK TEST	0.000	13:43
INTERNAL STANDARD	VERIFIED	13:43
EXTERNAL STANDARD	0.079	13:43
BLANK TEST	0.000	13:44
SUBJECT SAMPLE	0.000	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.079	13:46
BLANK TEST	0.000	13:47

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



OB

LINEARITY CHECK

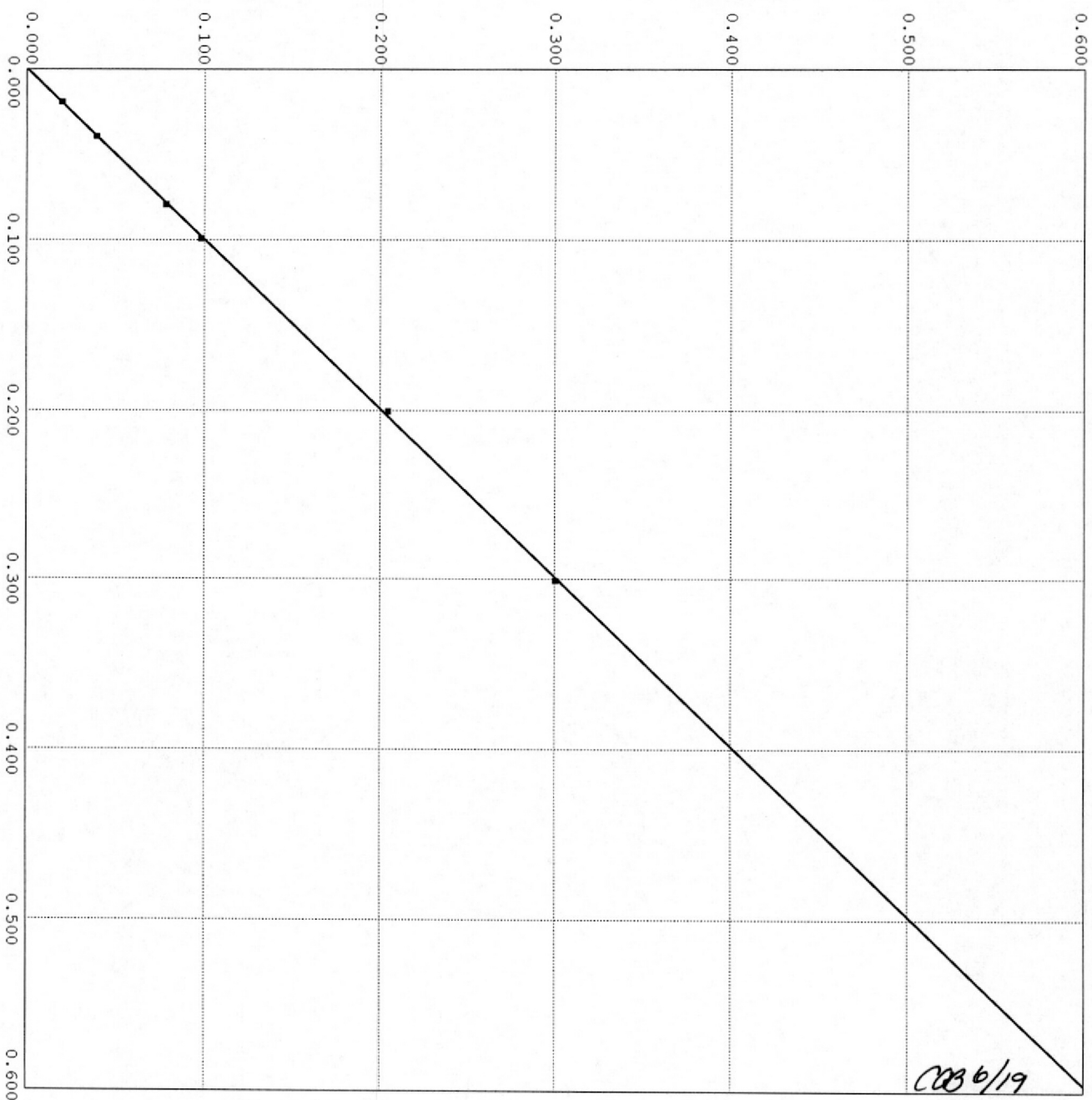
Alaska Department of Public Safety
 DATAMASTER dmt: 100363

Date: 09/07/2012
 Time: 13:51:48

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0205	0.0001
0.039	0.0401	0.0002
0.079	0.0795	0.0002
0.099	0.0993	0.0001
0.200	0.2054	0.0010
0.300	0.3010	0.0011

SLOPE = 1.005691
 R^2 = 0.999725



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100363

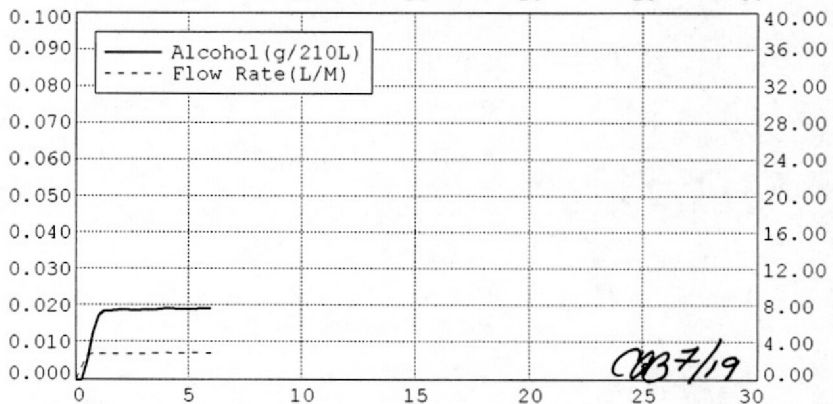
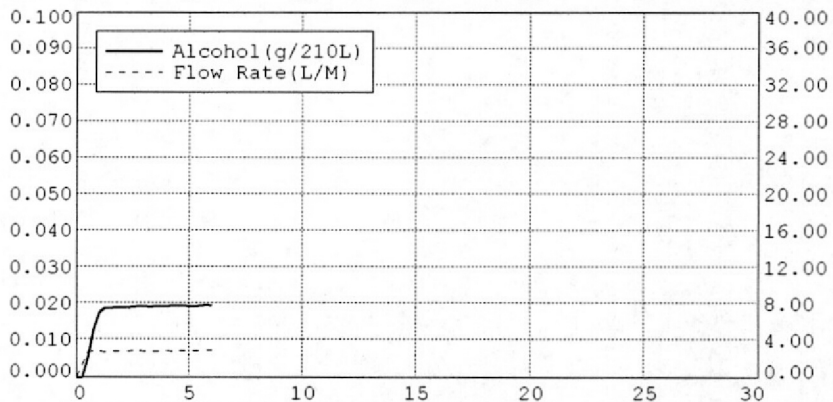
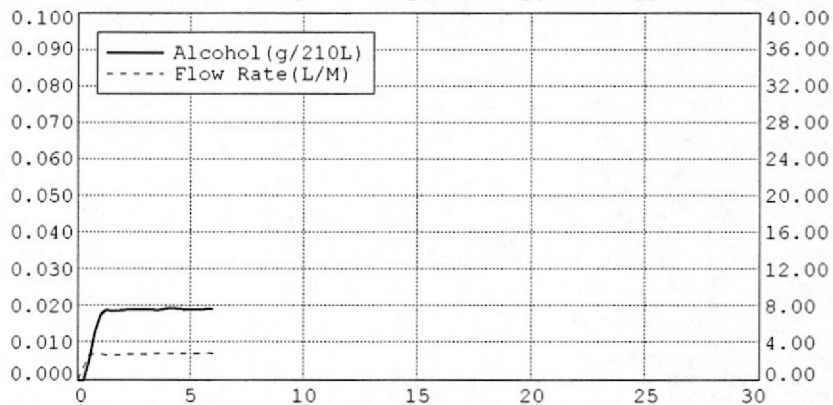
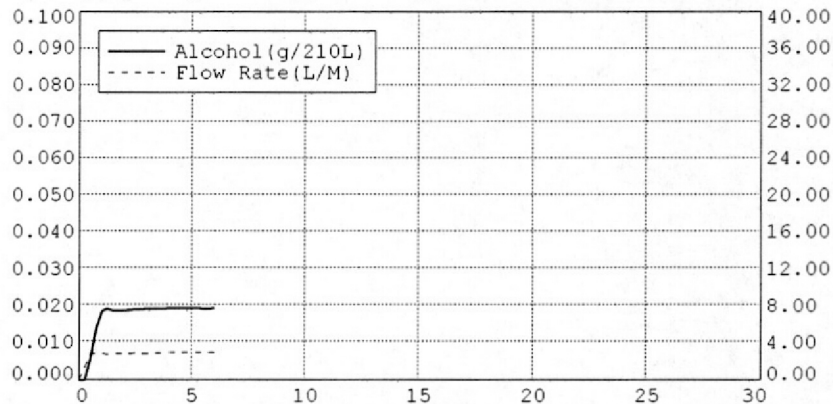
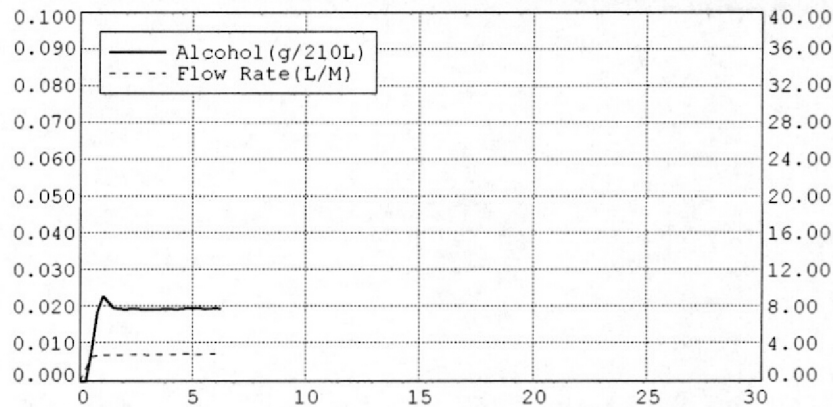
Date: 09/07/2012
Time: 13:51:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.82: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:53
INTERNAL STANDARD	VERIFIED	13:53
EXTERNAL STANDARD	0.020	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.020	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.020	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.020	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.020	13:58
BLANK TEST	0.000	13:58

Average = 0.0205
Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100363

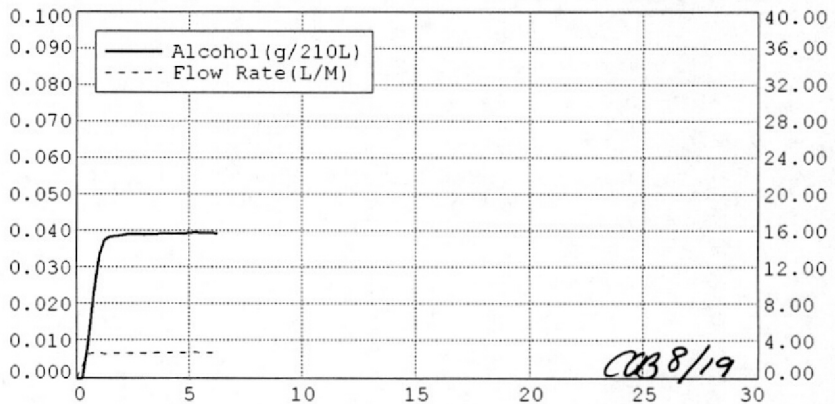
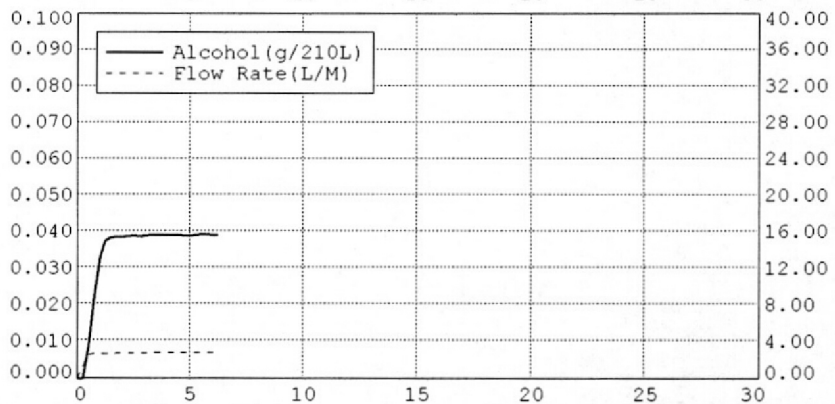
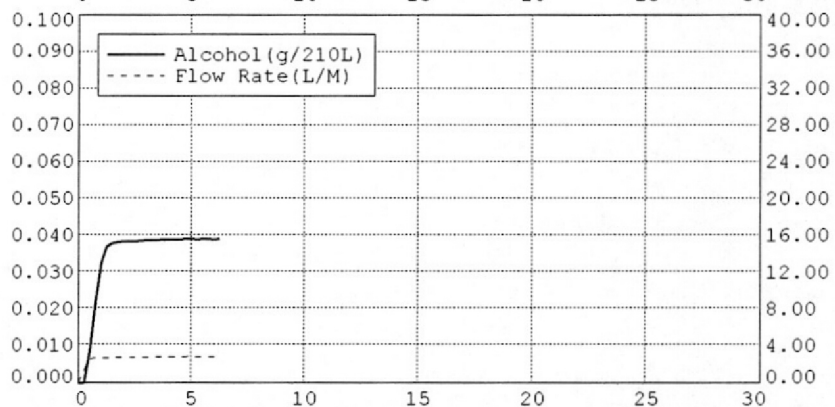
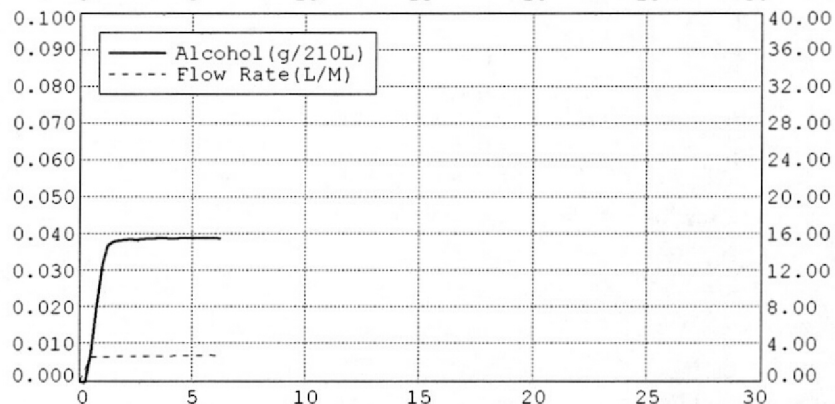
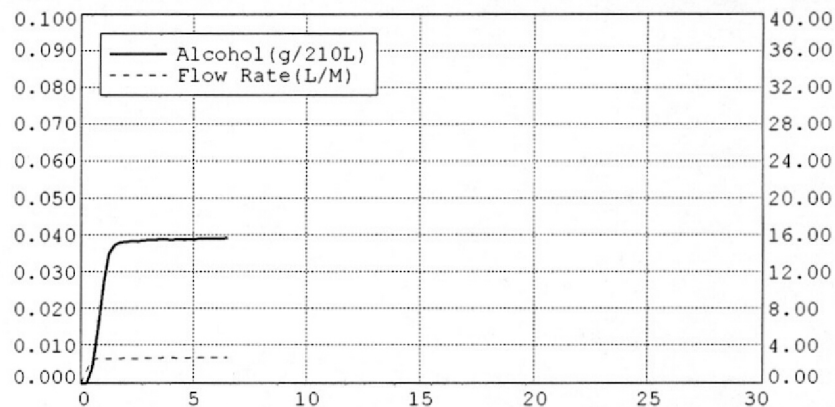
Date: 09/07/2012
Time: 14:01:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.82: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.040	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.040	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.039	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.040	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.040	14:07
BLANK TEST	0.000	14:08

Average = 0.0401
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100363

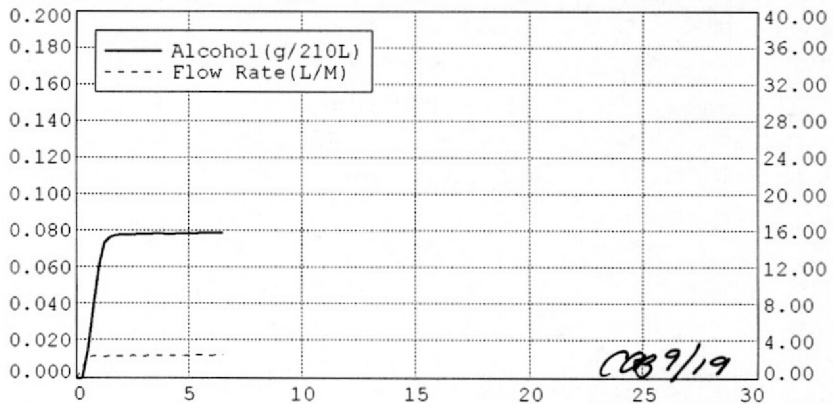
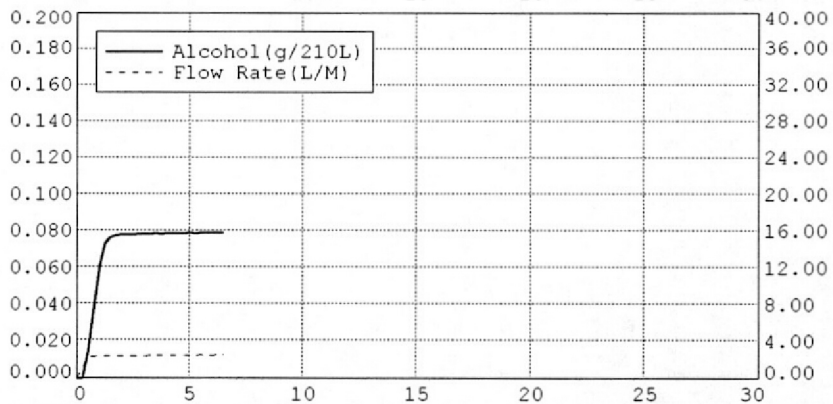
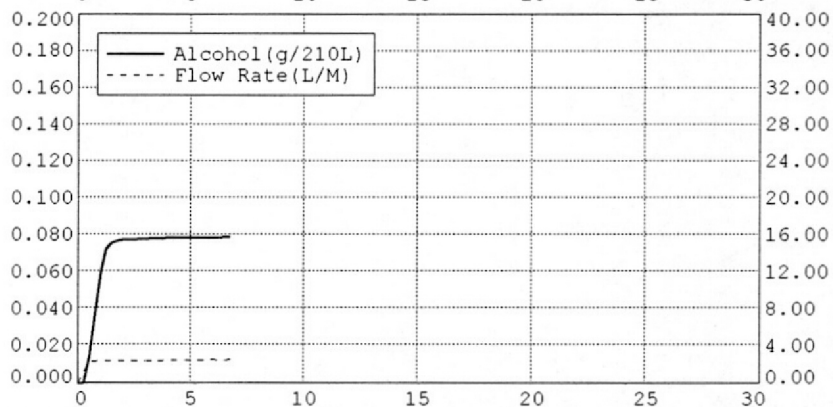
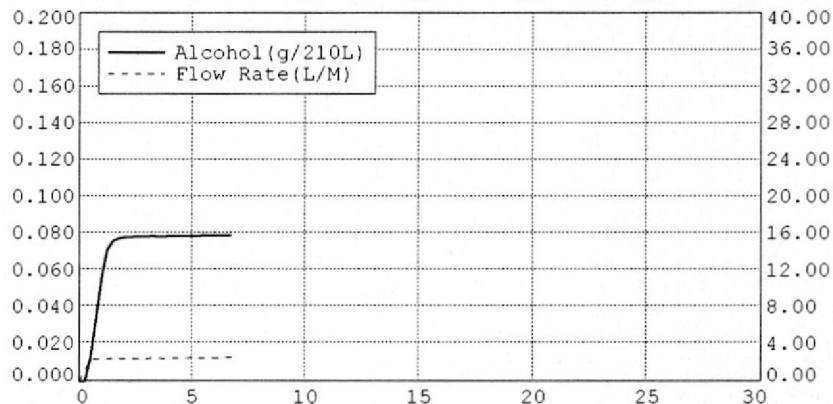
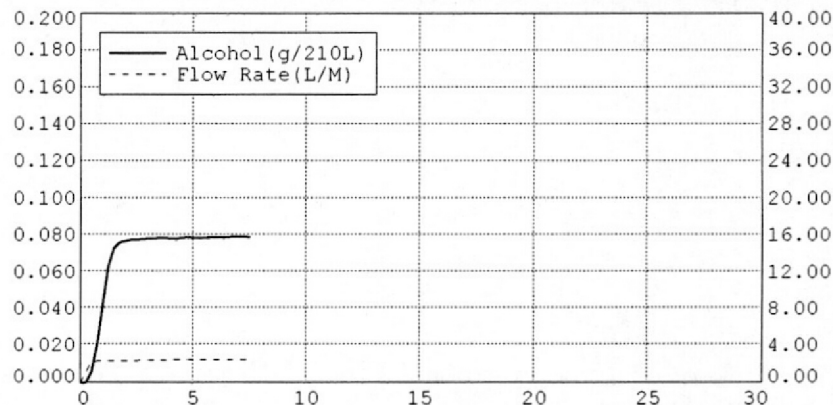
Date: 09/07/2012
Time: 14:09:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.82: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.079	14:11
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.079	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.079	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.079	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.079	14:15
BLANK TEST	0.000	14:16

Average = 0.0795
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100363

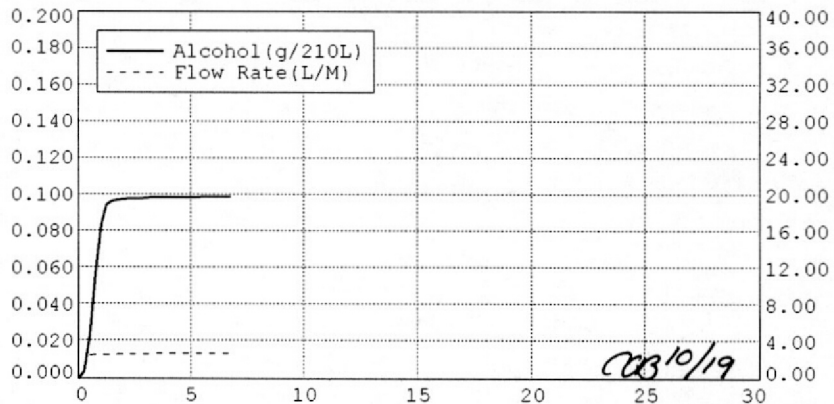
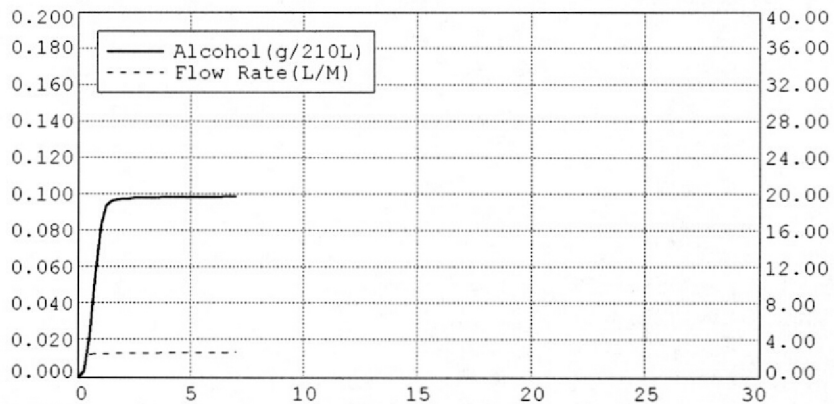
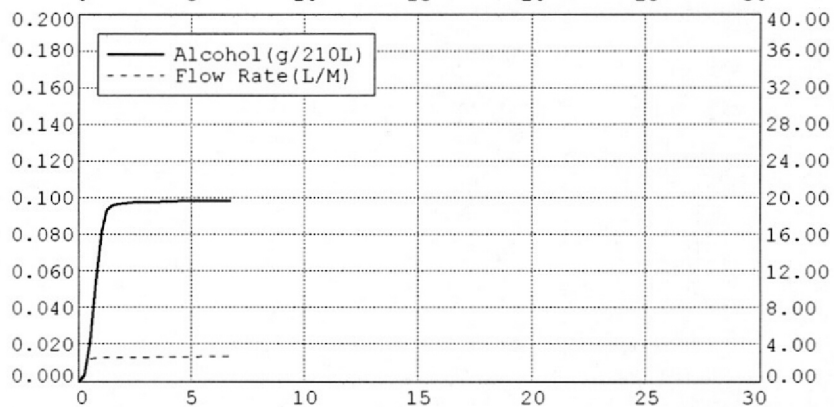
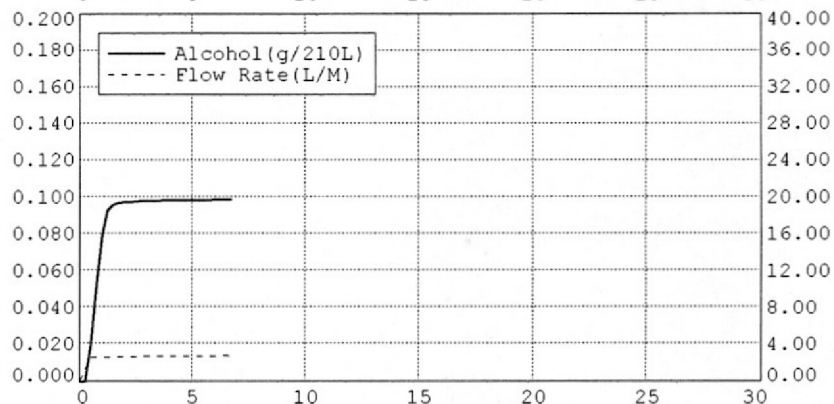
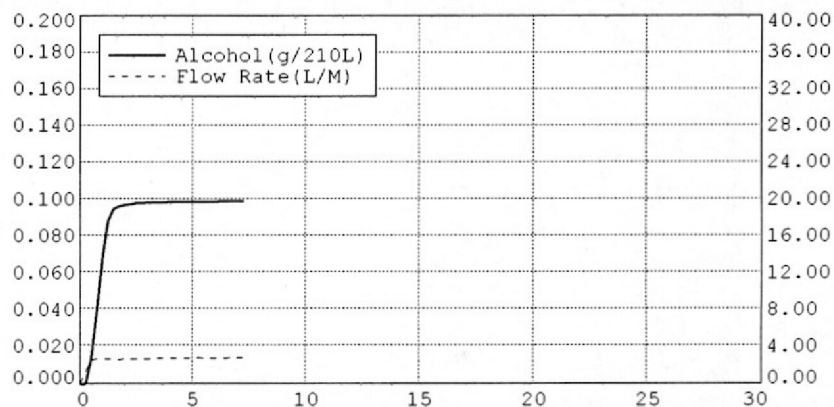
Date: 09/07/2012
Time: 14:17:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.81: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
EXTERNAL STANDARD	0.099	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.099	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.099	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.099	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.099	14:25
BLANK TEST	0.000	14:26

Average = 0.0993
Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

 Alaska Department of Public Safety
 DATAMASTER dmt: 100363

Date: 09/07/2012
 Time: 14:28:05

EXTERNAL STANDARD INFORMATION

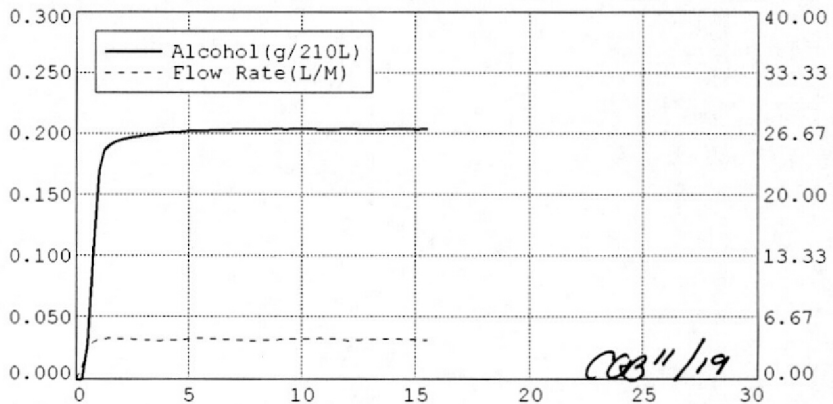
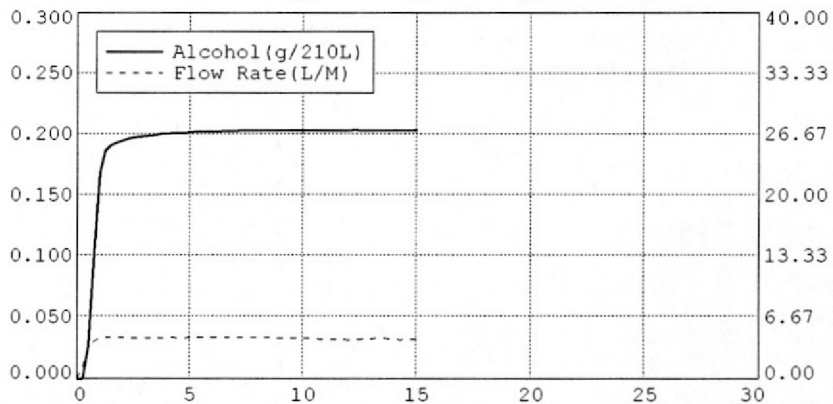
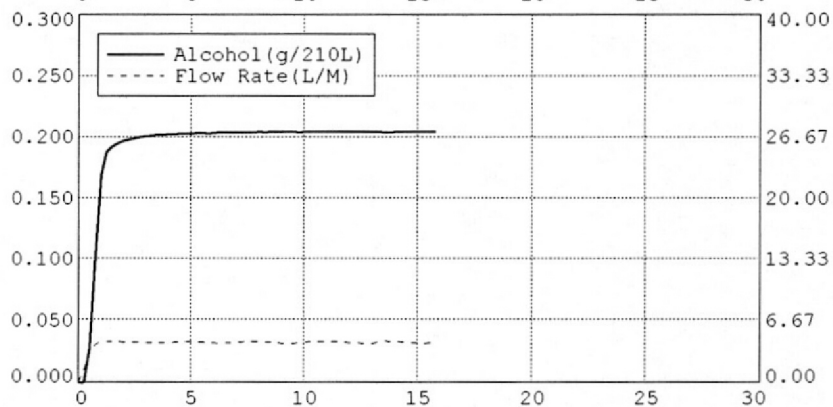
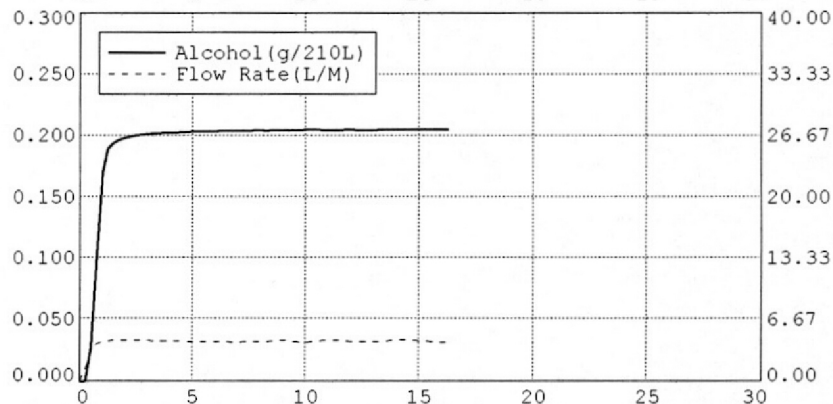
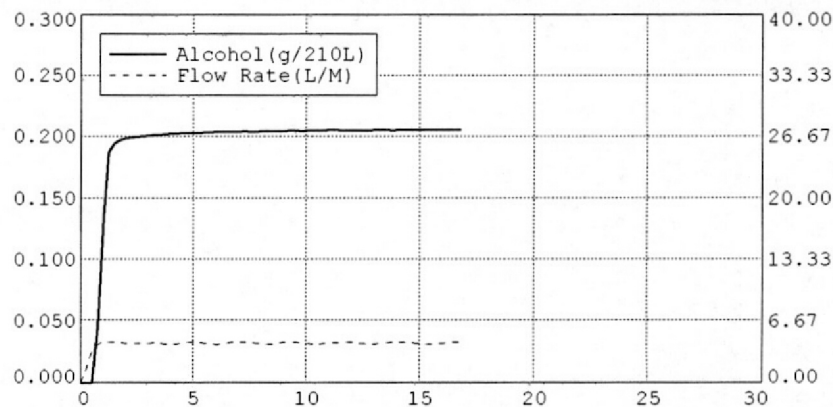
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.206	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.206	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.205	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.204	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.204	14:35
BLANK TEST	0.000	14:35

Average = 0.2054
 Std Dev = 0.0010



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 09/07/2012
Time: 14:36:53

EXTERNAL STANDARD INFORMATION

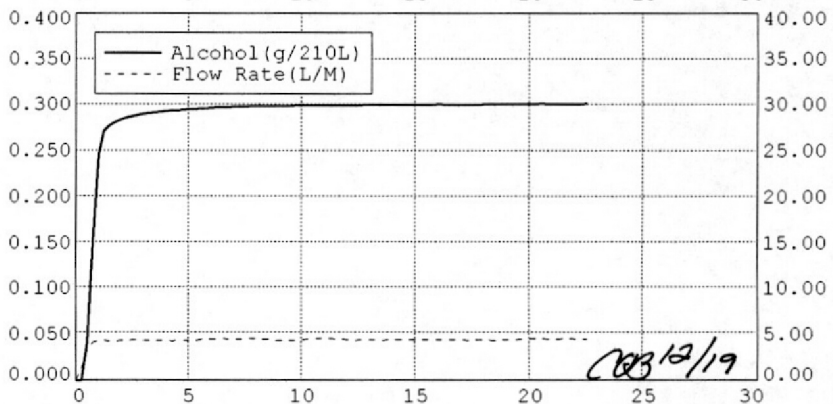
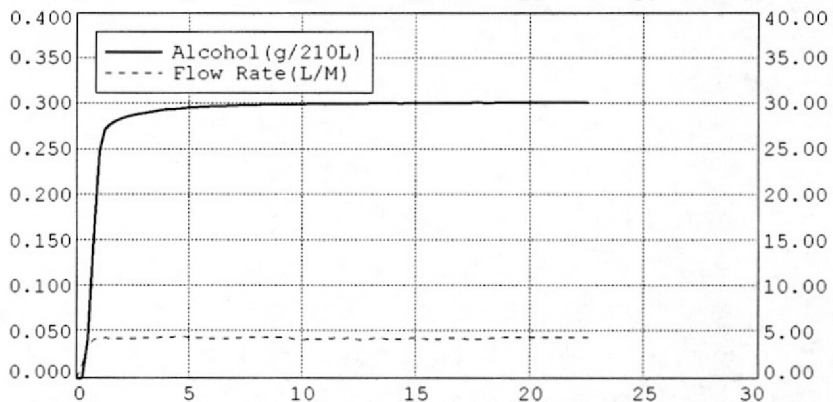
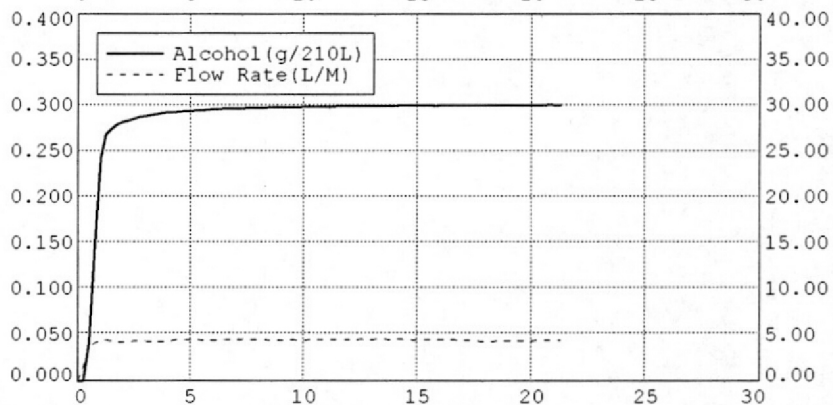
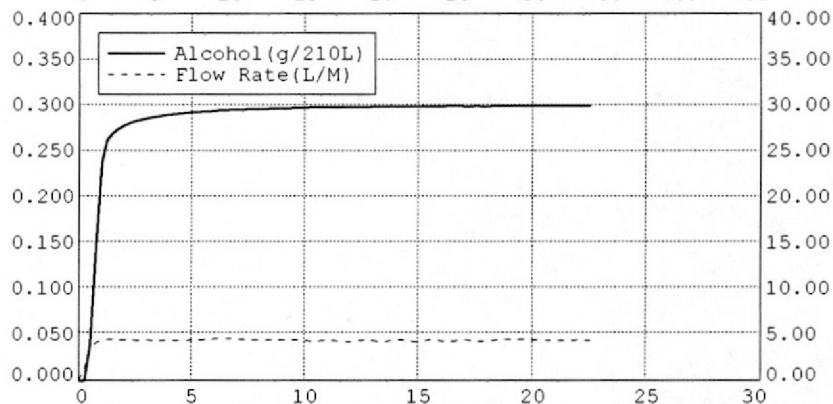
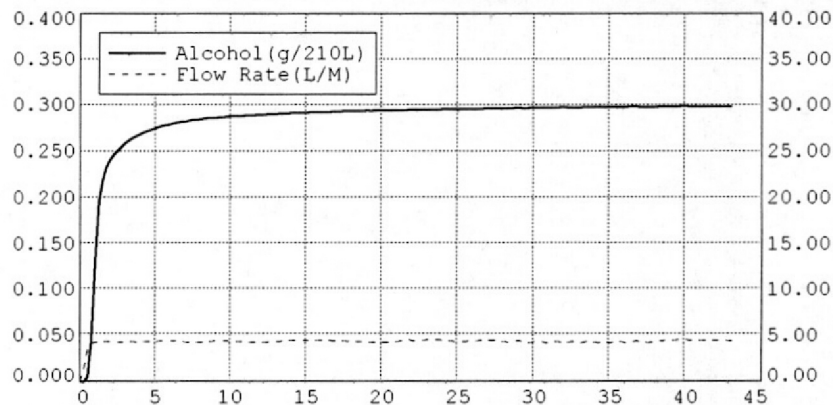
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	14:37
INTERNAL STANDARD	VERIFIED	14:38
EXTERNAL STANDARD	0.299	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.300	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.301	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.302	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.301	14:44
BLANK TEST	0.000	14:45

Average = 0.3010
Std Dev = 0.0011



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100363

Date: 09/11/2012
 Time: 11:00:42

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

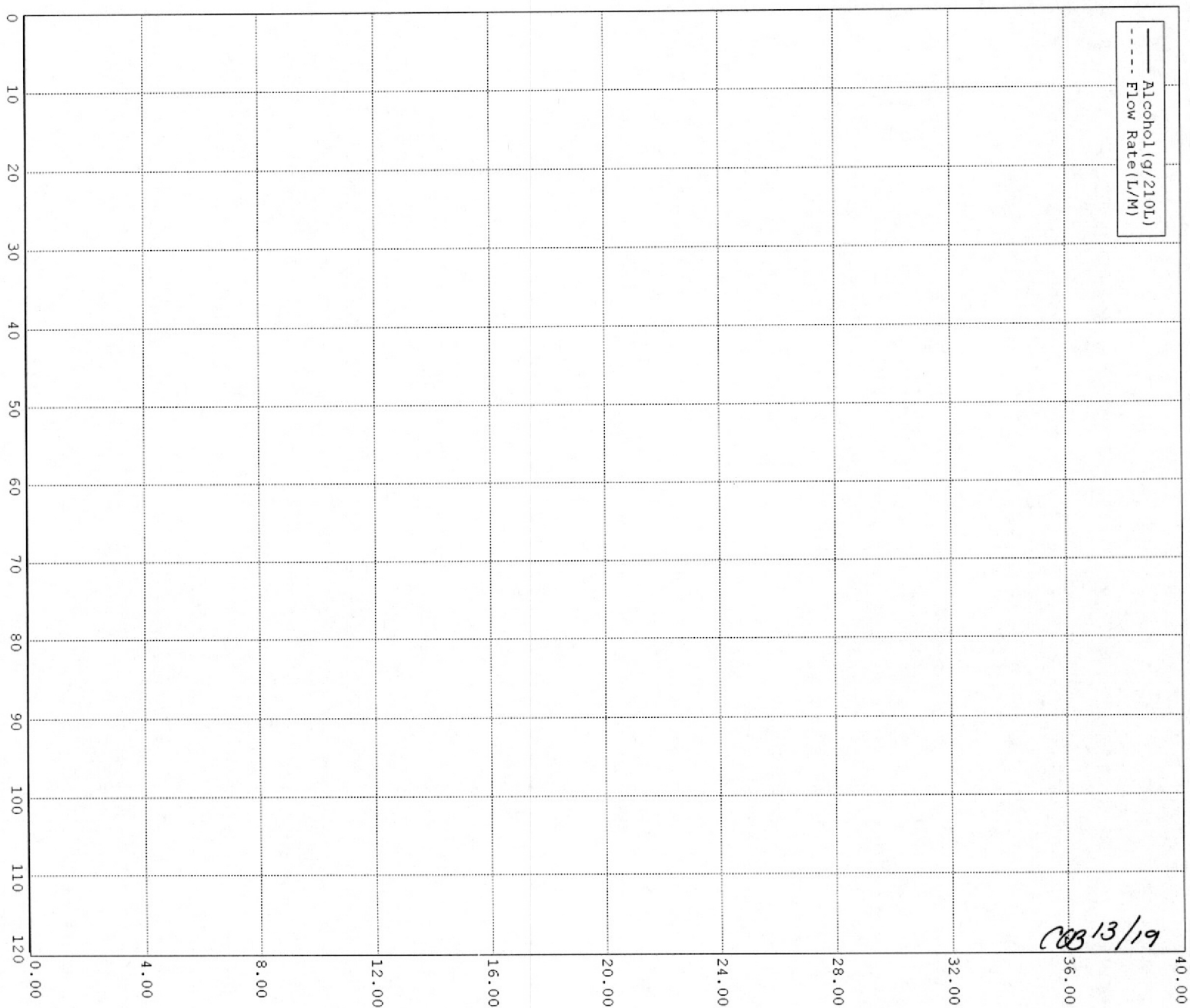
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.69: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:01
BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:02
EXTERNAL STANDARD	0.078	11:02
BLANK TEST	0.000	11:03
SUBJECT SAMPLE	INCOMPLETE	11:05

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 09/11/2012
Time: 11:07:29

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

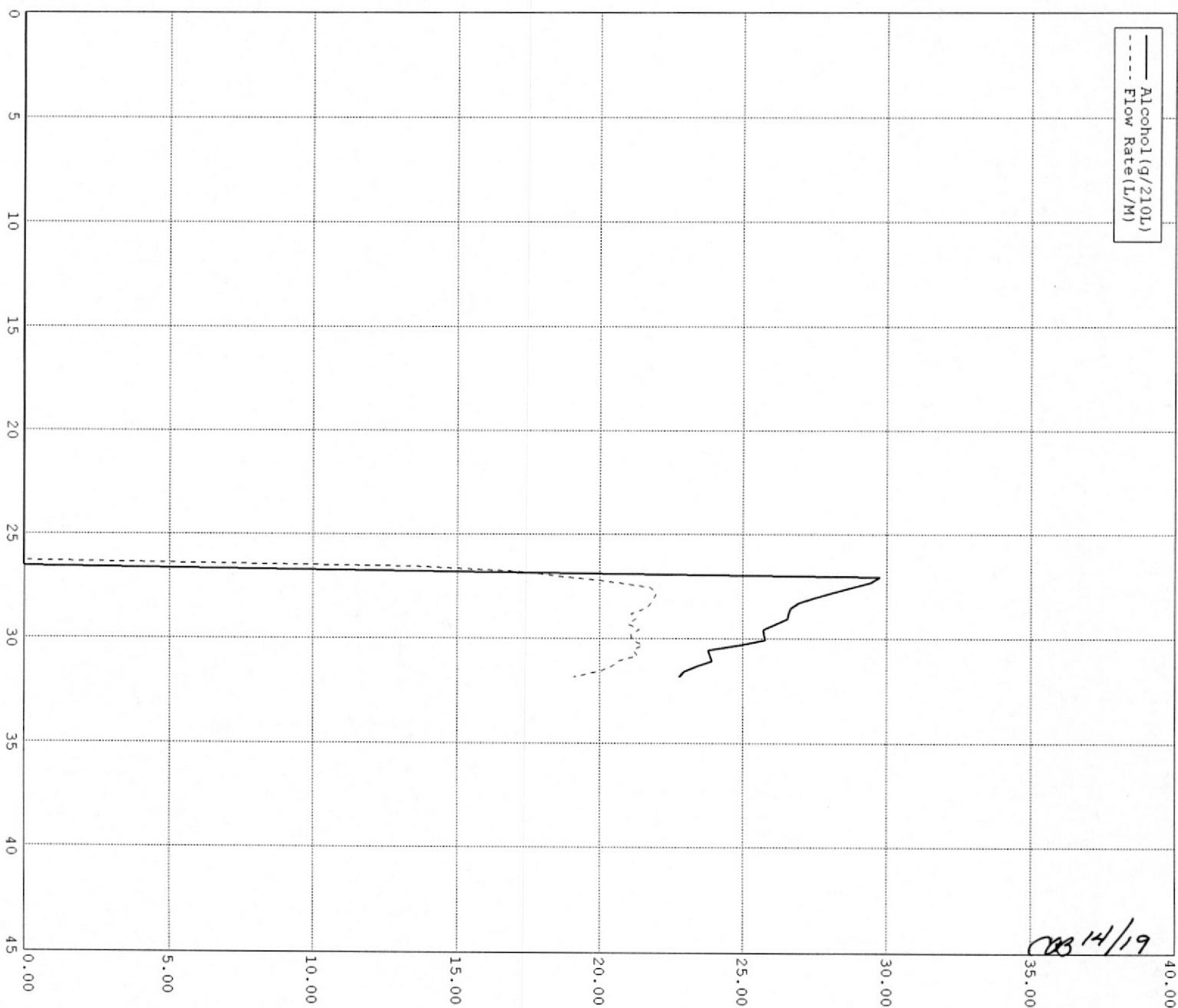
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:08
BLANK TEST	0.000	11:08
INTERNAL STANDARD	VERIFIED	11:08
EXTERNAL STANDARD	0.079	11:08
BLANK TEST	0.000	11:09
SUBJECT SAMPLE	INVALID	11:10

CR



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100363

Date: 09/12/2012
 Time: 08:48:00

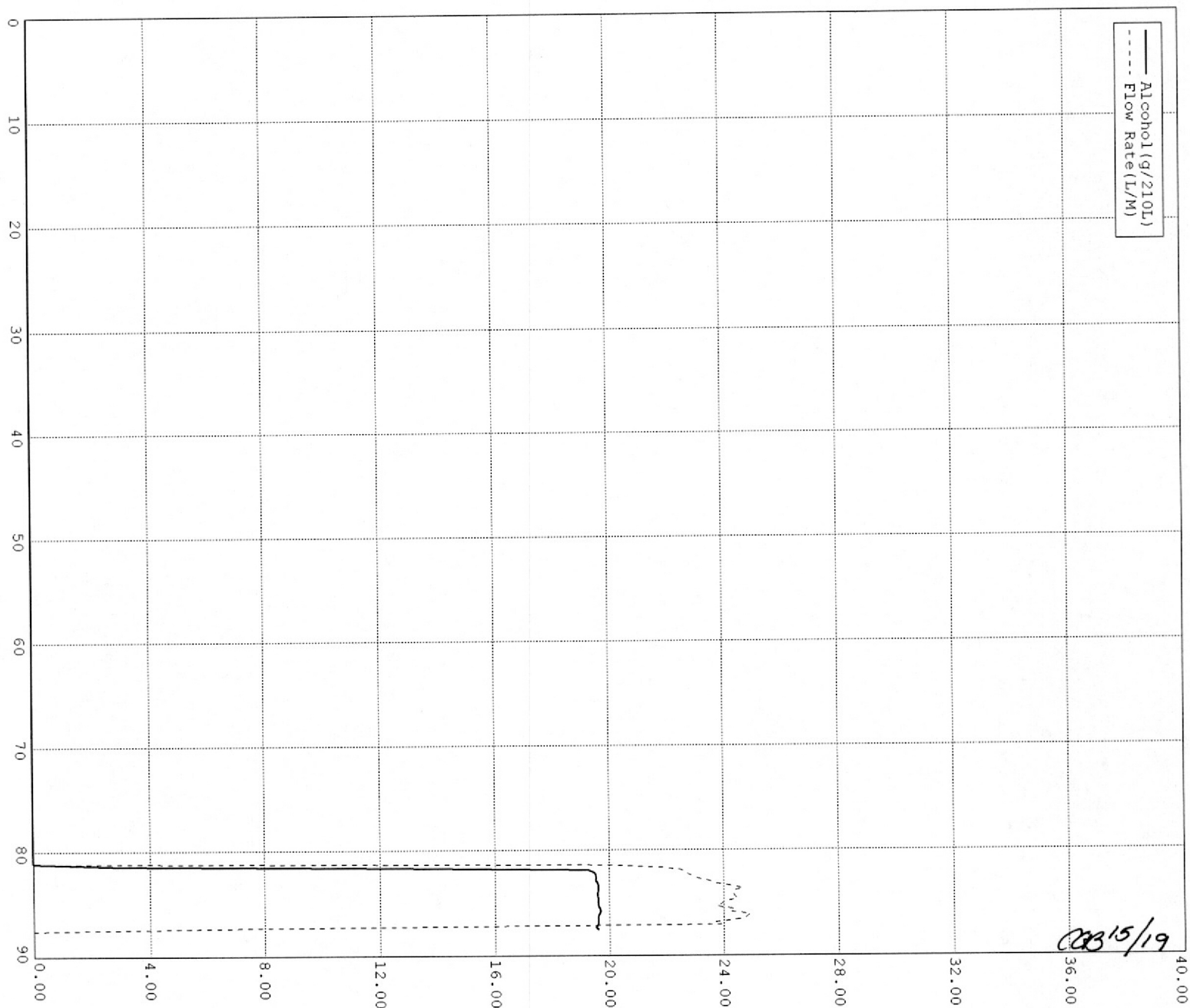
SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.46: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:48
BLANK TEST	0.000	08:49
INTERNAL STANDARD	VERIFIED	08:49
Xq = 0.082 (1.08%)	0.078	08:49
EXTERNAL STANDARD	X[1] = 0.0783 (-0.0011)	(0.0021)
BLANK TEST	0.000	08:50
SUBJECT SAMPLE	INTERFERENCE	08:51
X[1] = 0.0988 (-0.0128)	(0.0005)	



08/15/19

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100363

Date: 09/11/2012
 Time: 14:27:31

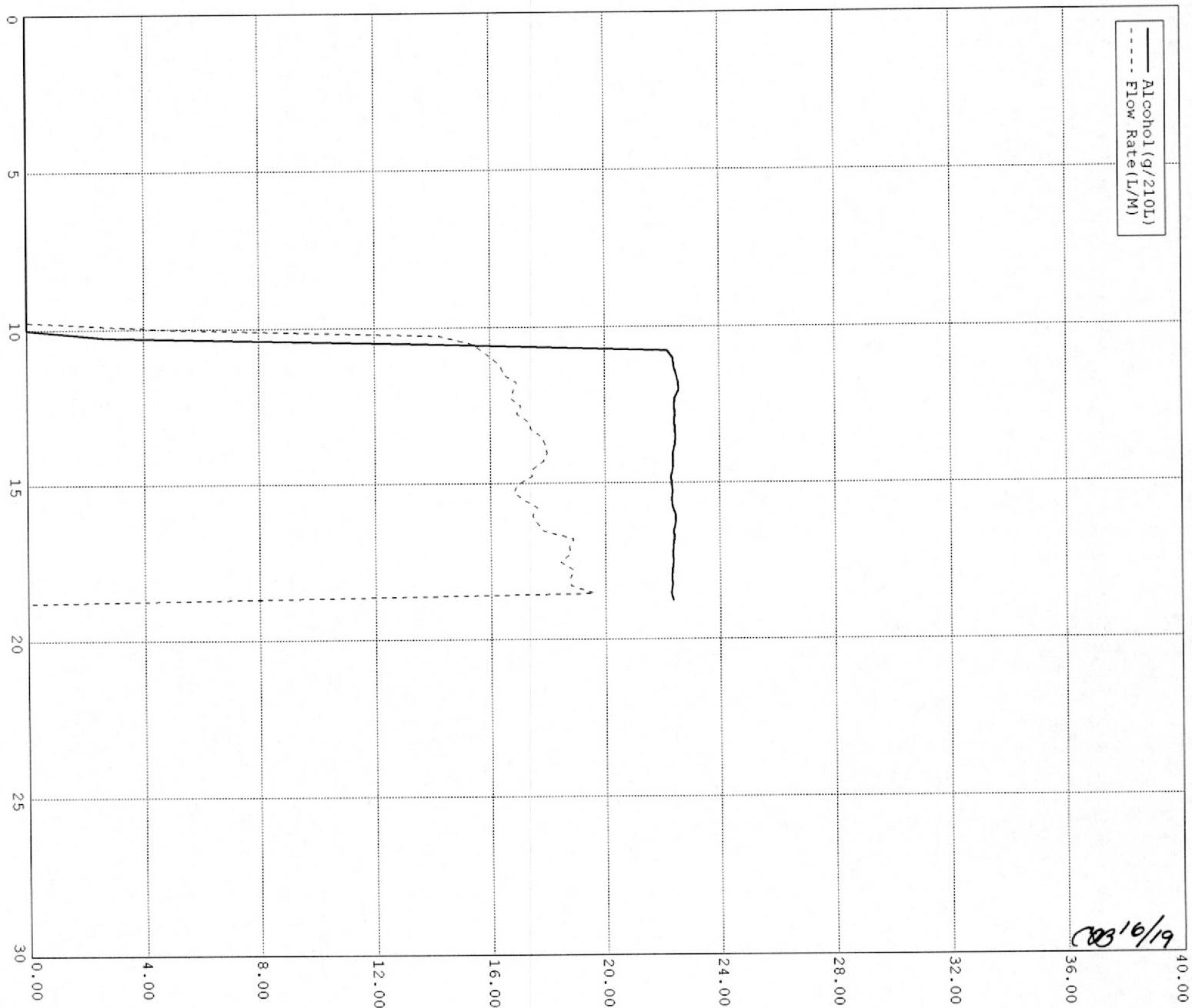
SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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

DEPT/AGENCY:
 AAAA
 CASE/REPORT: 12-3456
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.67: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:28
BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
Xq = 0.082 (1.51%)	0.079	14:29
EXTERNAL STANDARD	X[1] = 0.0790 (-0.0010)	(0.0020)
BLANK TEST	0.000	14:30
SUBJECT SAMPLE	INTERFERENCE	14:30
X[1] = 0.1118 (-0.0249)	(0.0017)	



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 09/11/2012
Time: 11:19:48

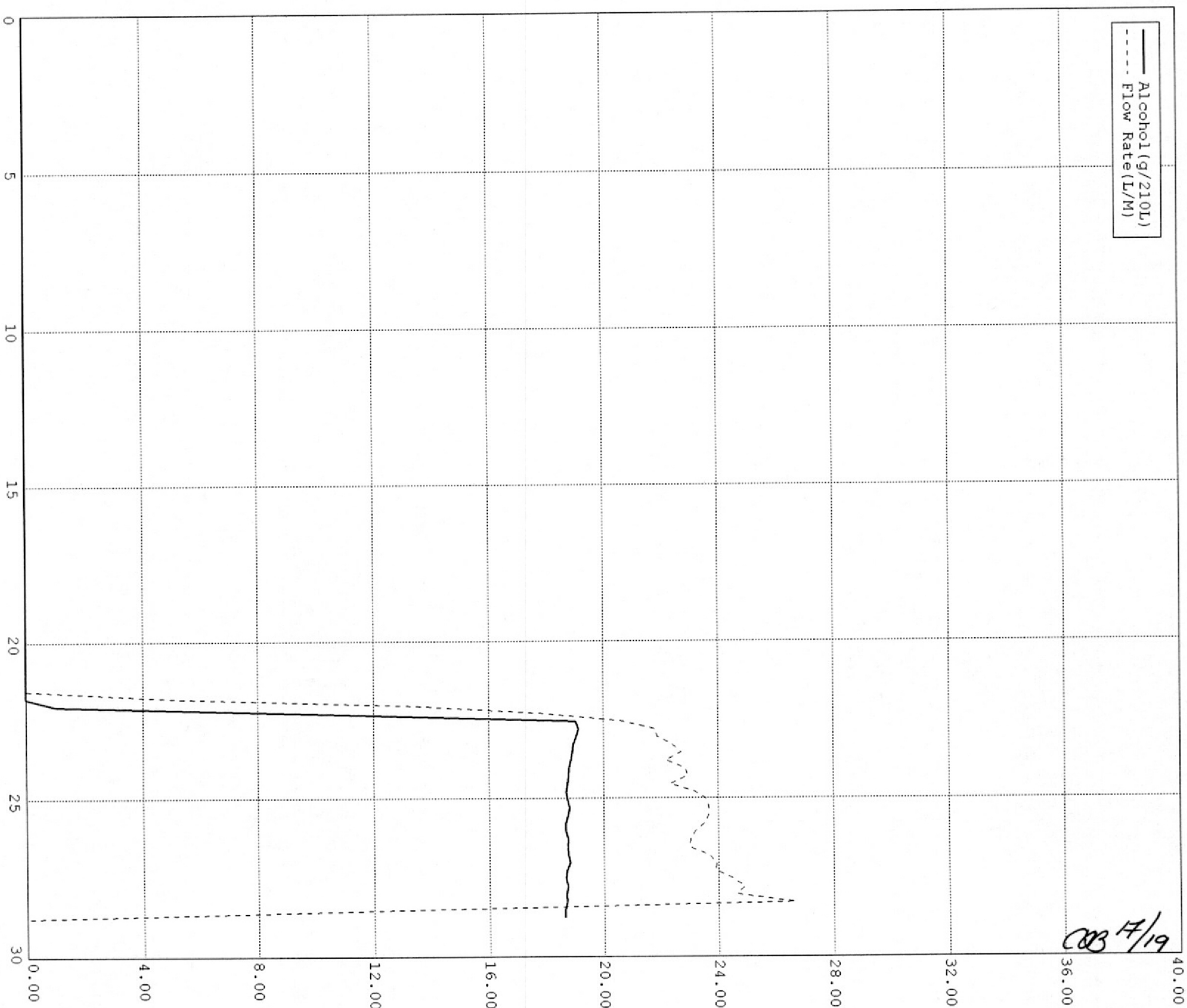
SUBJECT NAME:
TEST TEST
LICENSE #: NEG-CONTROL

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 29.71: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:21
BLANK TEST	0.000	11:21
INTERNAL STANDARD	VERIFIED	11:21
Xq = 0.082 (1.08%)		
EXTERNAL STANDARD	0.079	11:21
X[1] = 0.0797 (-0.0009)	(0.0027)	
BLANK TEST	0.000	11:22
SUBJECT SAMPLE (Vol=2.54L)	0.093	11:23
X[1] = 0.0935 (0.0001)	(0.0014)	
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.078	11:24
X[1] = 0.0785 (-0.0015)	(0.0020)	
BLANK TEST	0.000	11:25



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100363

Date: 09/12/2012
 Time: 08:55:39

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

OPERATOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1

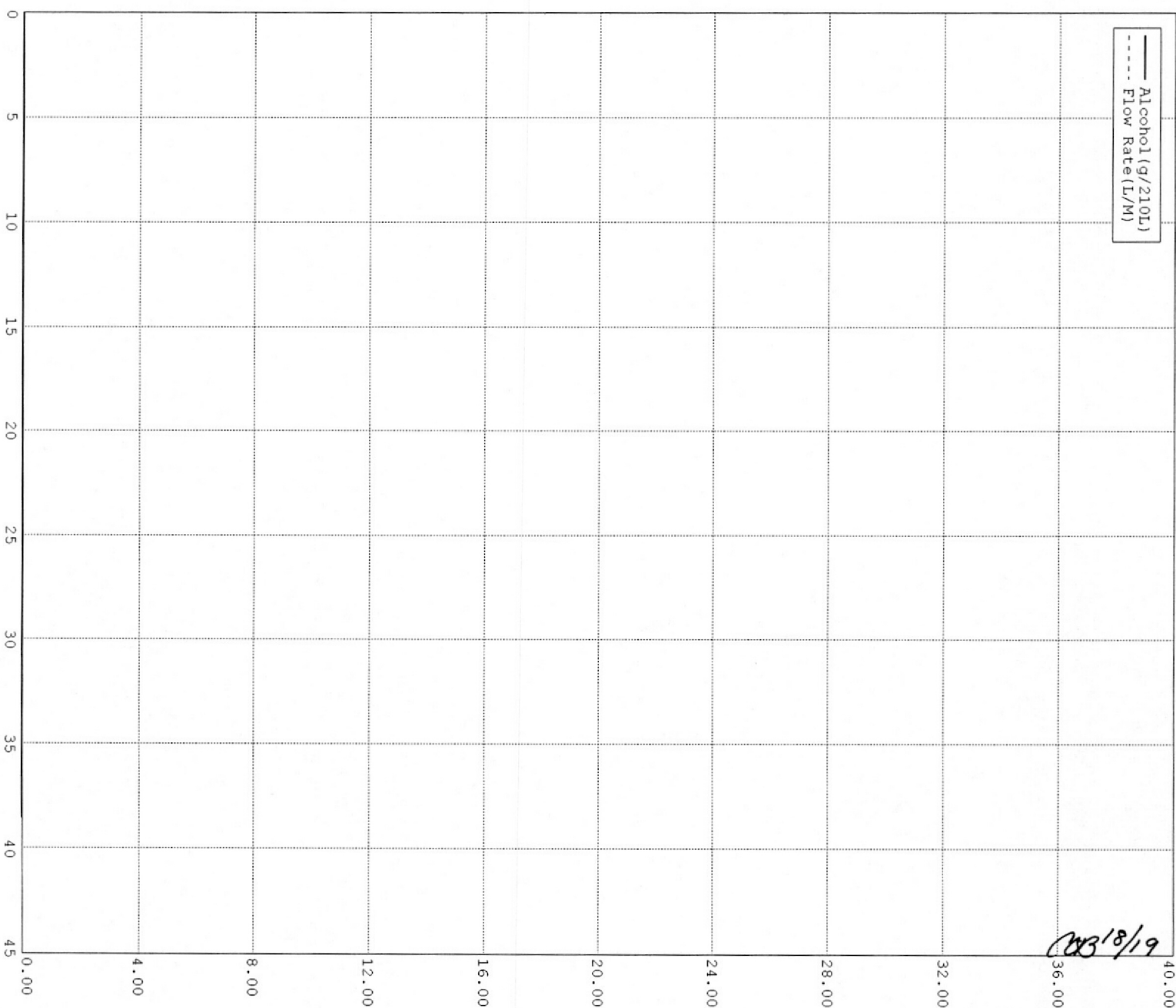
CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.46: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:56
BLANK TEST	0.000	08:57
INTERNAL STANDARD	VERIFIED	08:57
EXTERNAL STANDARD	0.078	08:57
BLANK TEST	0.000	08:58

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 09/12/2012

Time: 09:10:35

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 29.46: 0.078

LOT #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

BLANK TEST

EXTERNAL STANDARD

BLANK TEST

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

