

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100377 Analyst Colleen O'Bryant Start Date 9/7/12

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 1.30 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached) 1400

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 07/19/13

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

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

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 07/06/13

1. Simulator S/N DR6267 Date Calibrated 11/10/12

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

1. Simulator S/N DR4176 Date Calibrated 02/21/12

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 09/12/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 09/07/2012
Time: 13:14:54

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 47.4°C	PASSED

PUMP INFO

Flow Rate = 5.139 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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Technician Screen

DATAMASTER dmt: 100377

Date: 09/07/2012

Time: 1:38 PM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 47.4°C

Current Barometer 29.8 in

Volume (Ltr) 1.45

Settings

Lamp: 1.75 V

Bias: 80 V

Cooler: 1.65 V

Chopper: 542 Hz

Voltages (V)

Flow: 1.05 V

Detector: -0.041 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 03/02/2011
Time: 17:28:44

Ca = 0.1000
CAL = 0.980645 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0043 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0815 0.0500 <= Xq < 0.2000
a21 = 1.183888 1.050 <= a21 < 1.300
a31 = 0.379173 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 09/07/2012
Time: 13:40:22

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

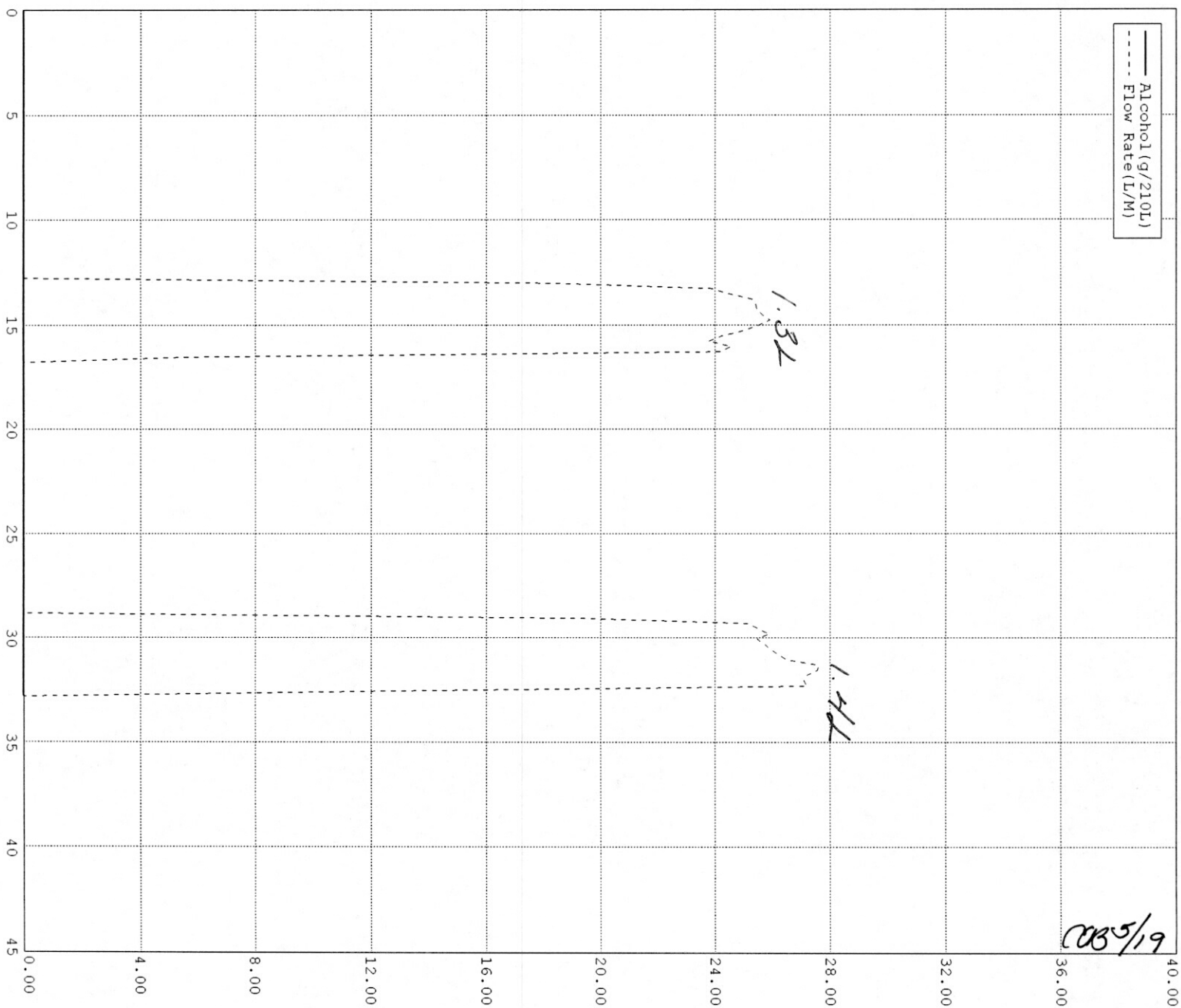
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.83: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:41
BLANK TEST	0.000	13:41
INTERNAL STANDARD	VERIFIED	13:41
EXTERNAL STANDARD	0.080	13:41
BLANK TEST	0.000	13:42
SUBJECT SAMPLE	0.000	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.080	13:44
BLANK TEST	0.000	13:45

CS



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100377

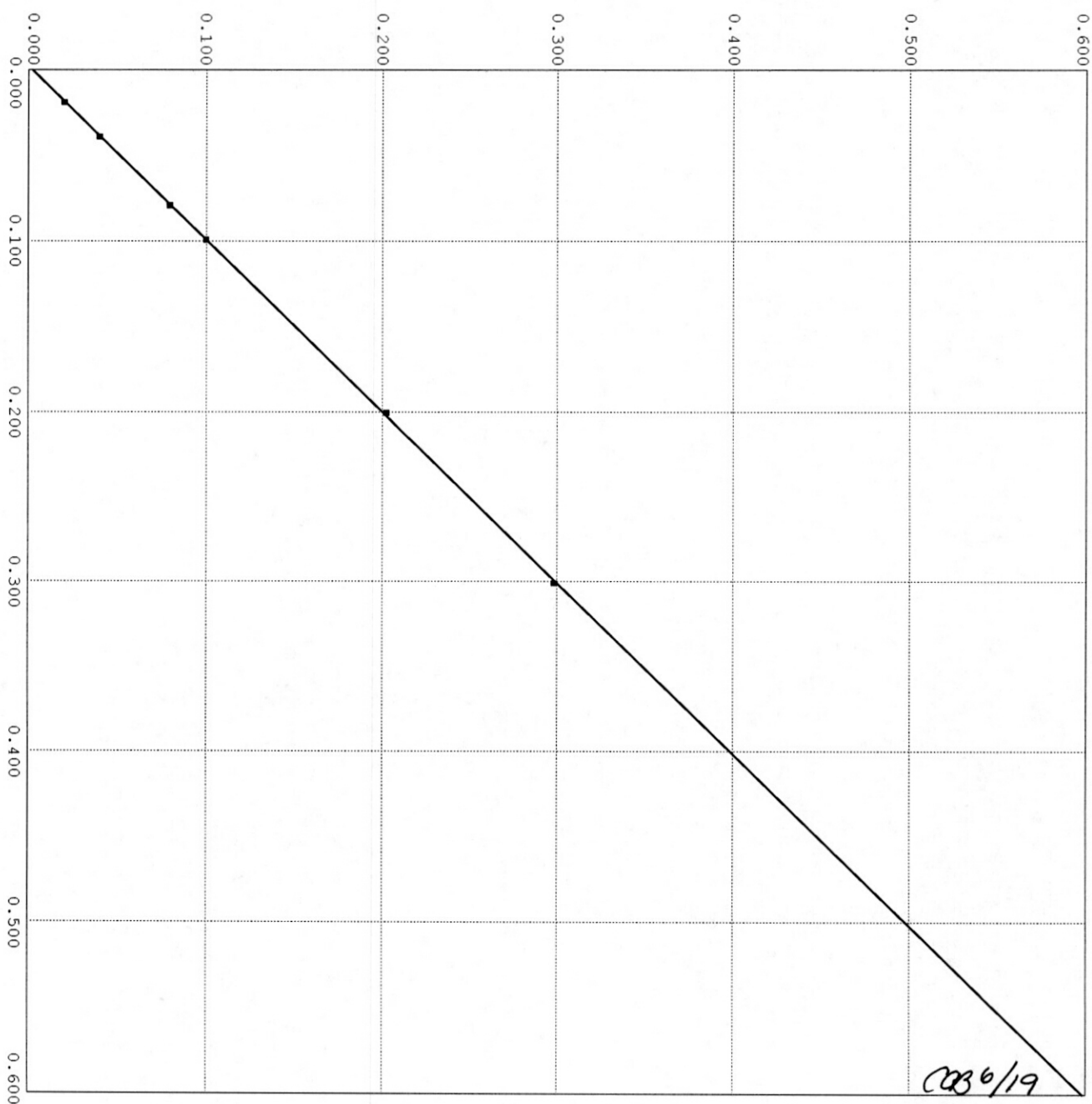
Date: 09/07/2012
Time: 14:01:18

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0208	0.0002
0.039	0.0407	0.0001
0.079	0.0804	0.0003
0.099	0.1007	0.0002
0.200	0.2032	0.0005
0.300	0.2990	0.0004

SLOPE = 0.993833
 R^2 = 0.999875

CAS



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100377

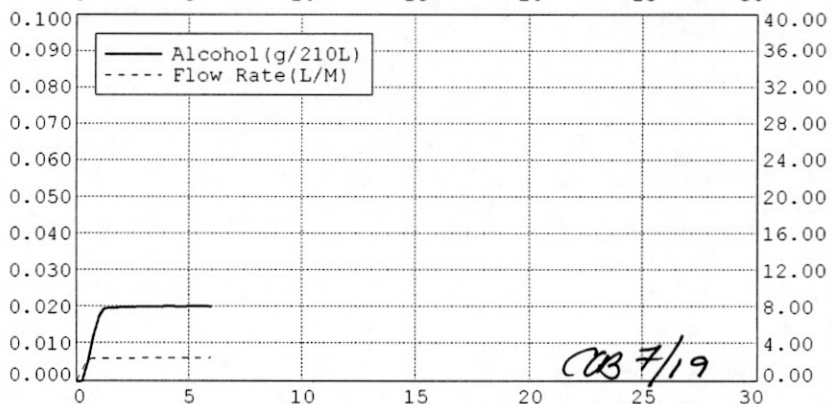
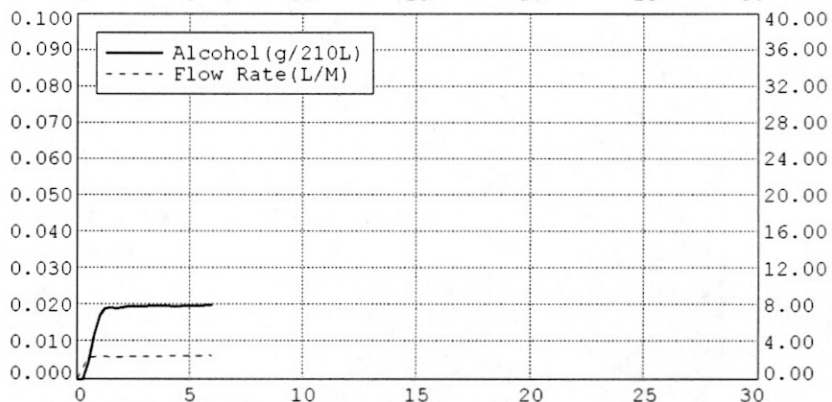
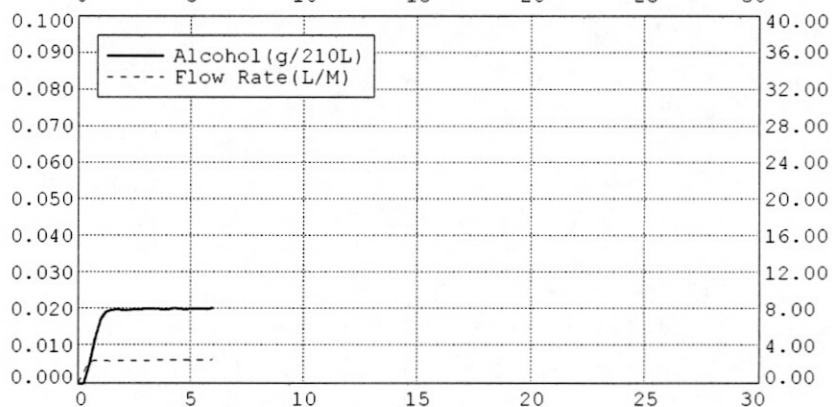
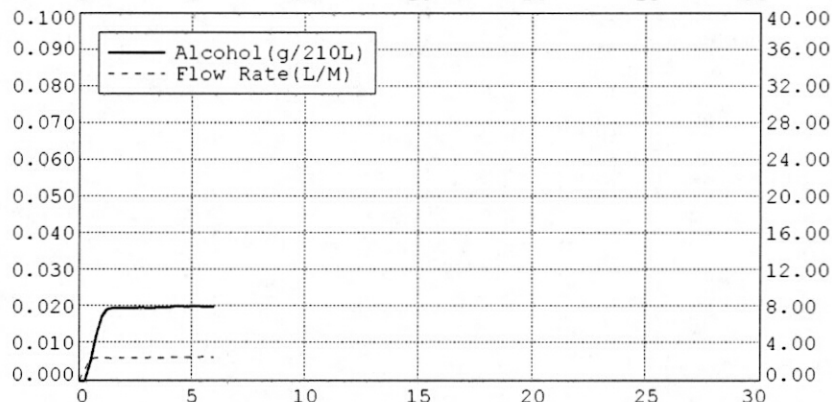
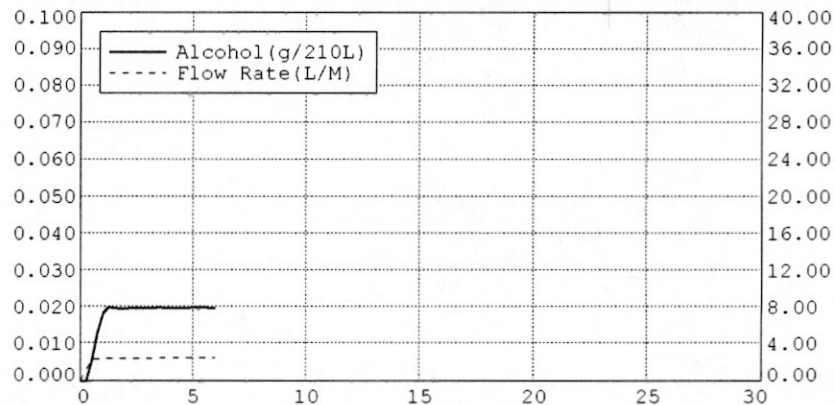
Date: 09/07/2012
Time: 14:01:20

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.020	14:03
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.020	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.020	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.020	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.021	14:07
BLANK TEST	0.000	14:08

Average = 0.0208
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100377

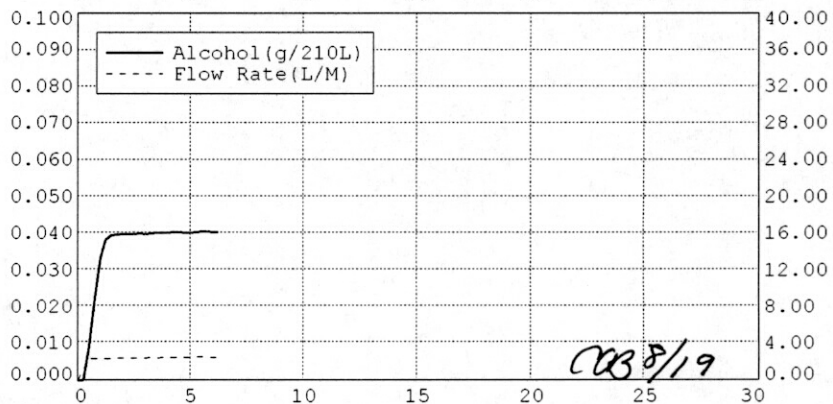
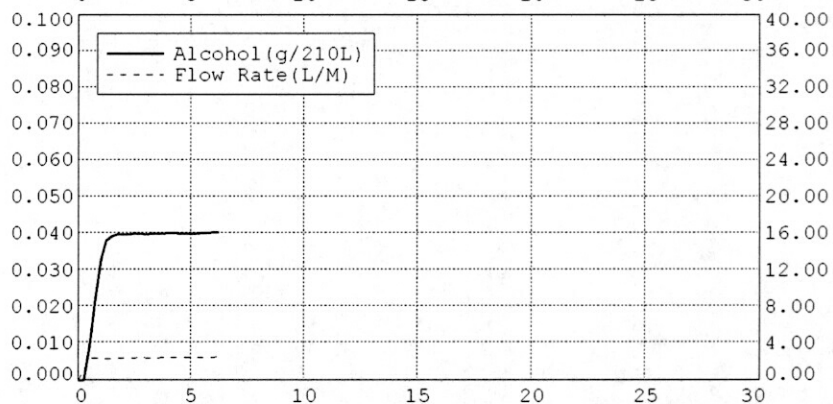
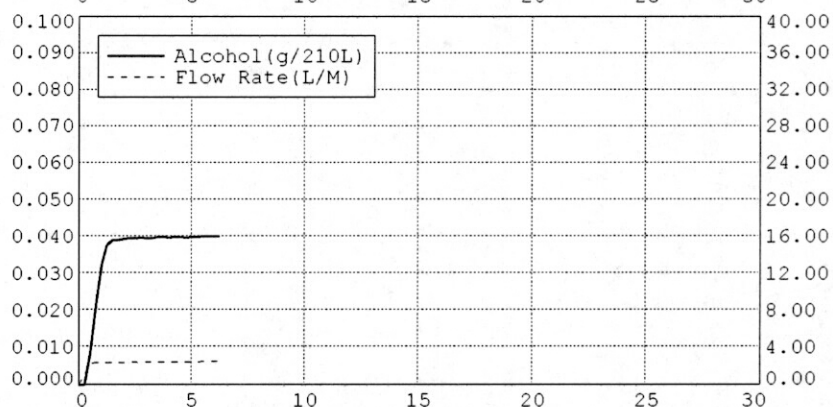
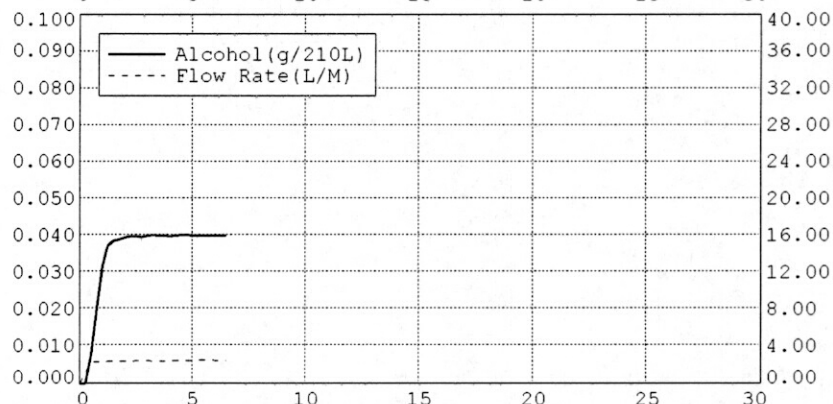
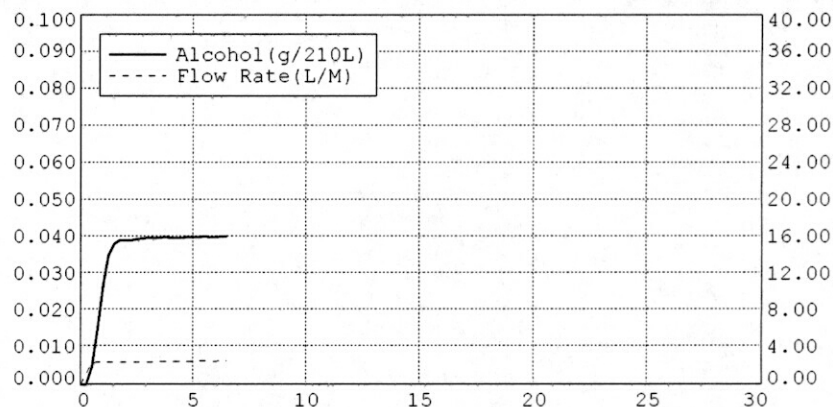
Date: 09/07/2012
Time: 14:08:56

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.040	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.040	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.040	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.040	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.040	14:14
BLANK TEST	0.000	14:15

Average = 0.0407
Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100377

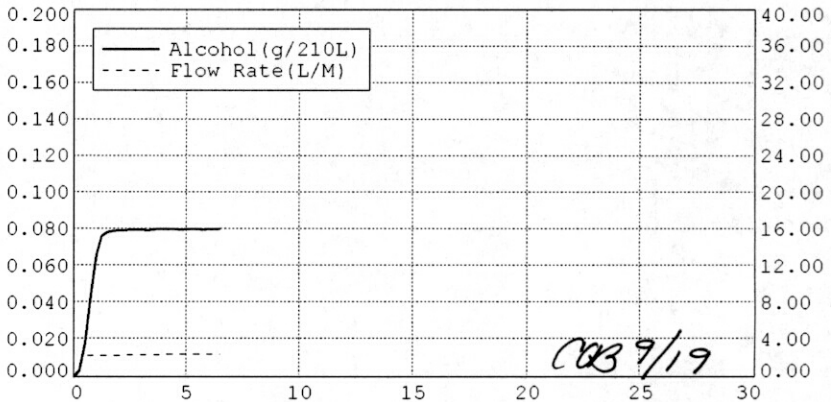
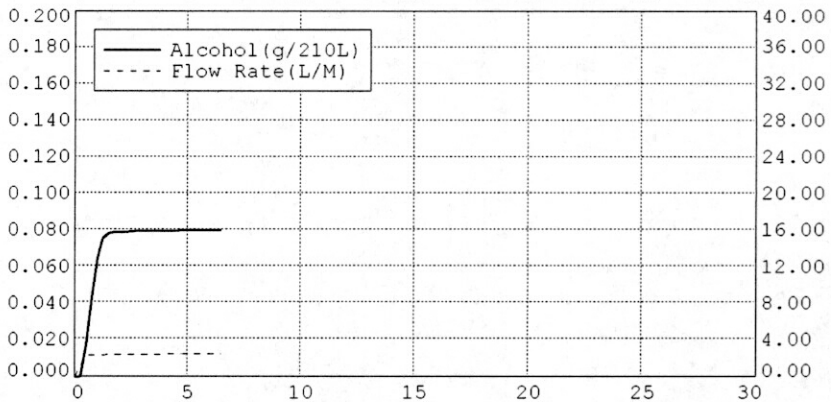
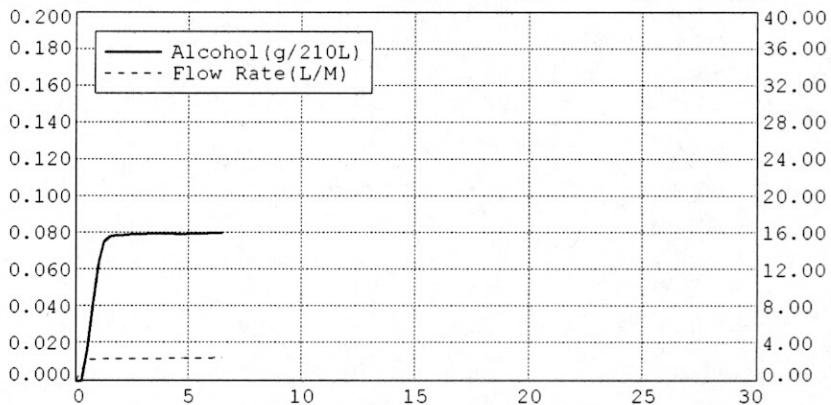
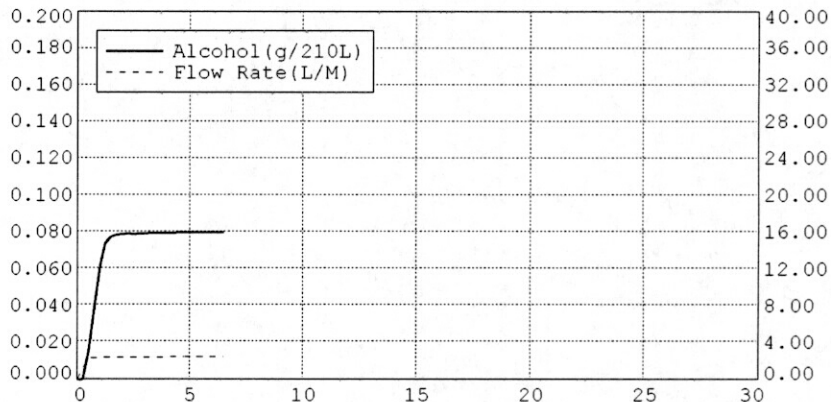
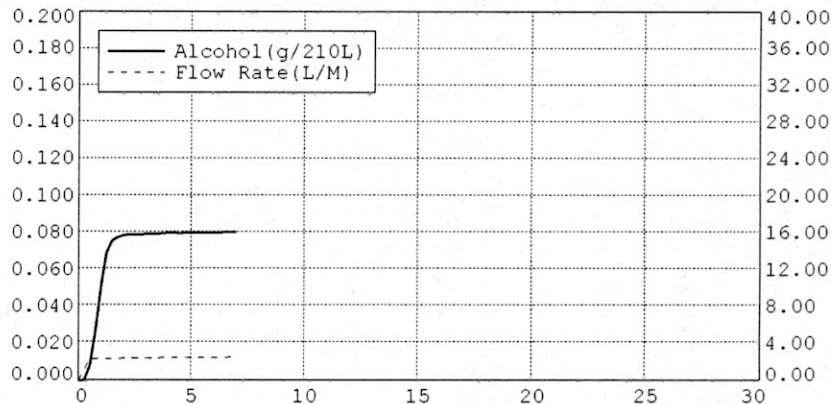
Date: 09/07/2012
Time: 14:17:42

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:18
INTERNAL STANDARD	VERIFIED	14:18
EXTERNAL STANDARD	0.080	14:19
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.080	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.080	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.080	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.080	14:23
BLANK TEST	0.000	14:24

Average = 0.0804
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100377

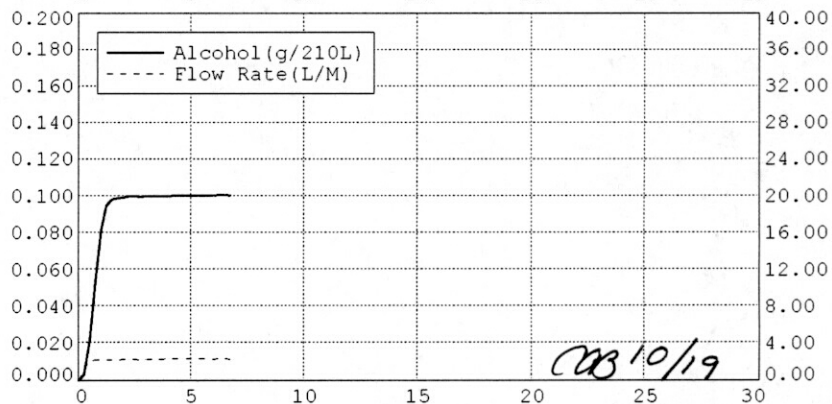
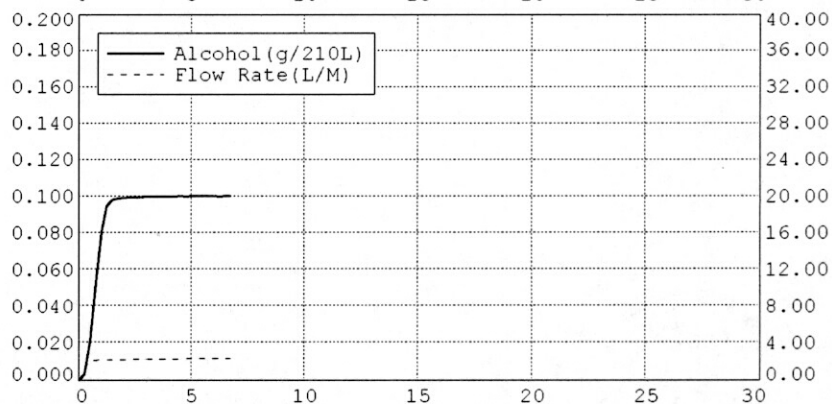
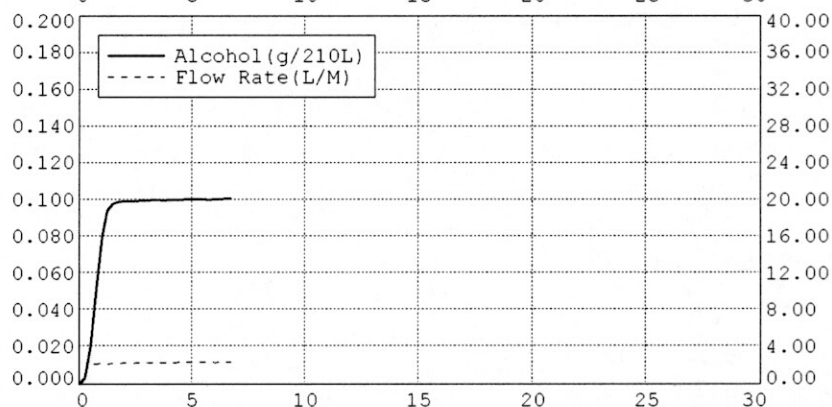
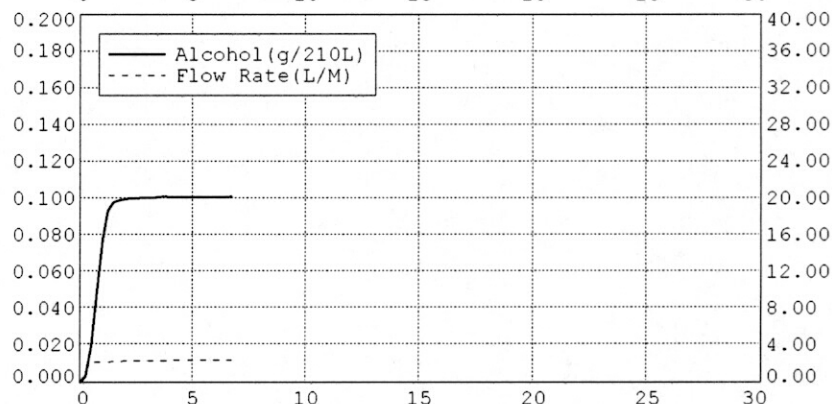
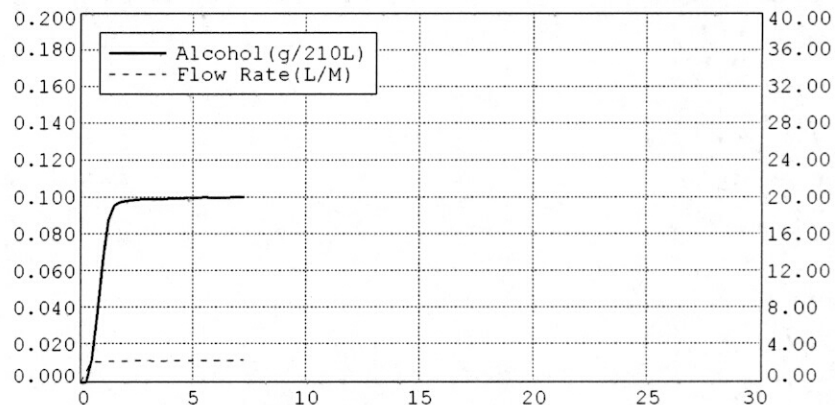
Date: 09/07/2012
Time: 14:27:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.82: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:28
INTERNAL STANDARD	VERIFIED	14:28
EXTERNAL STANDARD	0.100	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.101	14:30
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.100	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.100	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.100	14:33
BLANK TEST	0.000	14:34

Average = 0.1007
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

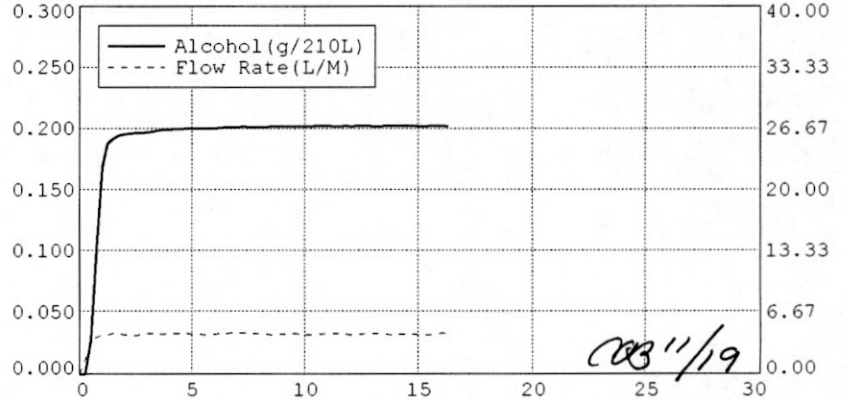
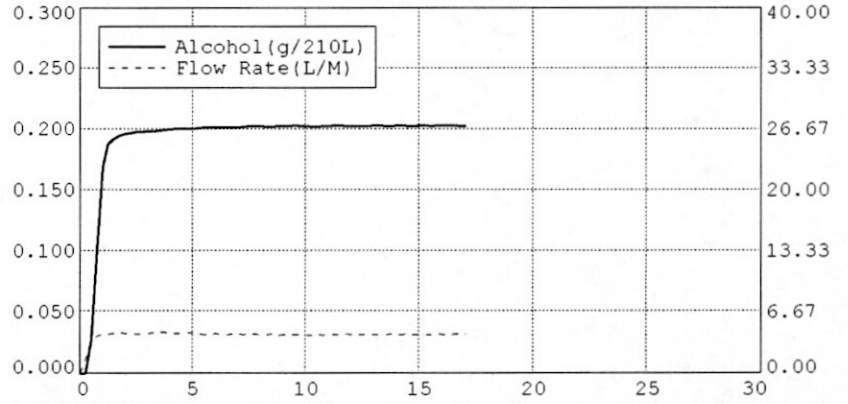
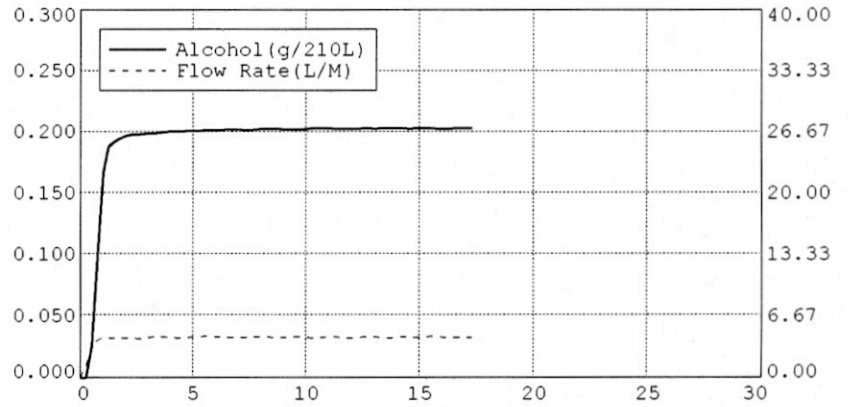
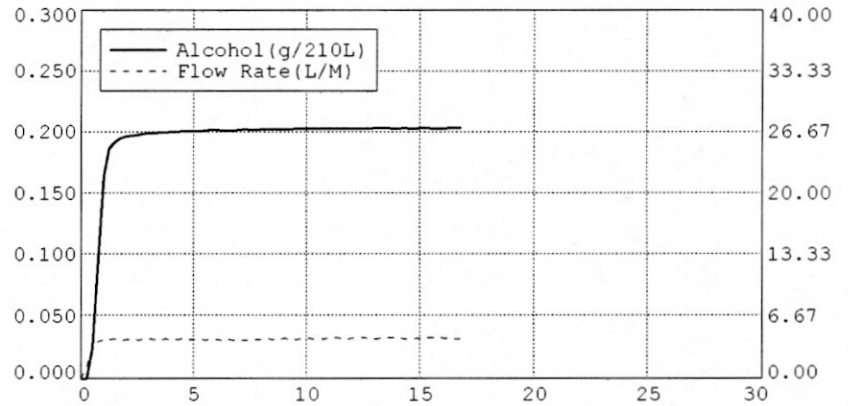
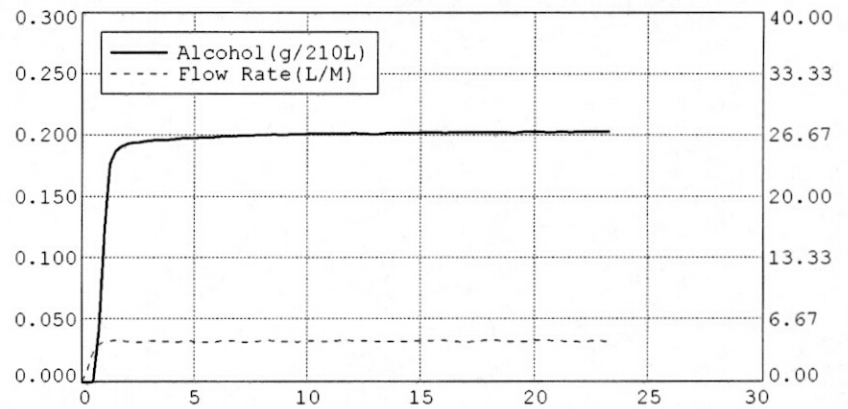
Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 09/07/2012
Time: 14:36:24

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

BLANK TEST	0.000	14:38
INTERNAL STANDARD	VERIFIED	14:38
EXTERNAL STANDARD	0.203	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.203	14:40
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.203	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.203	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.202	14:43
BLANK TEST	0.000	14:44

Average = 0.2032
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 09/07/2012
Time: 14:46:28

EXTERNAL STANDARD INFORMATION

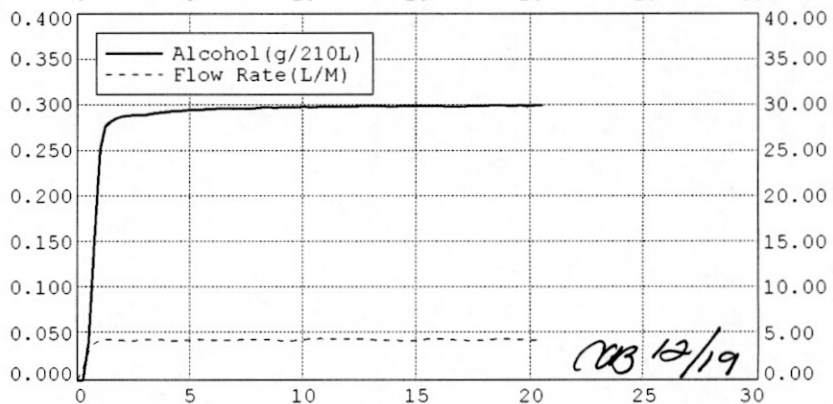
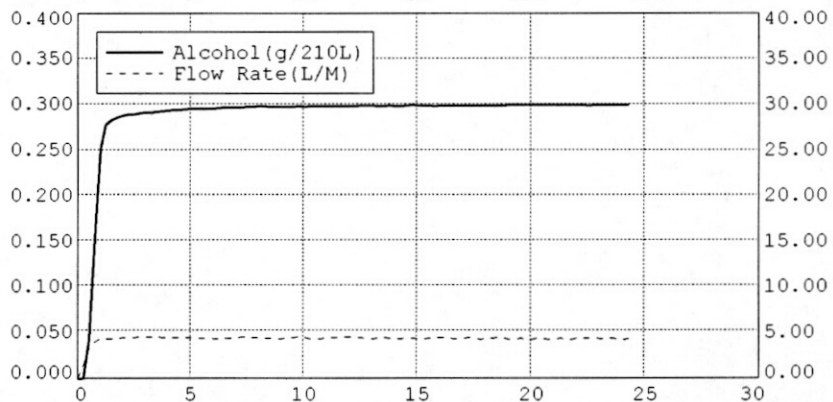
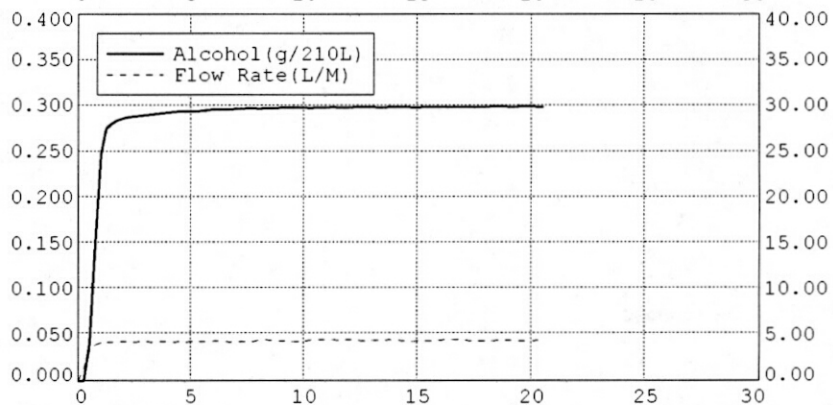
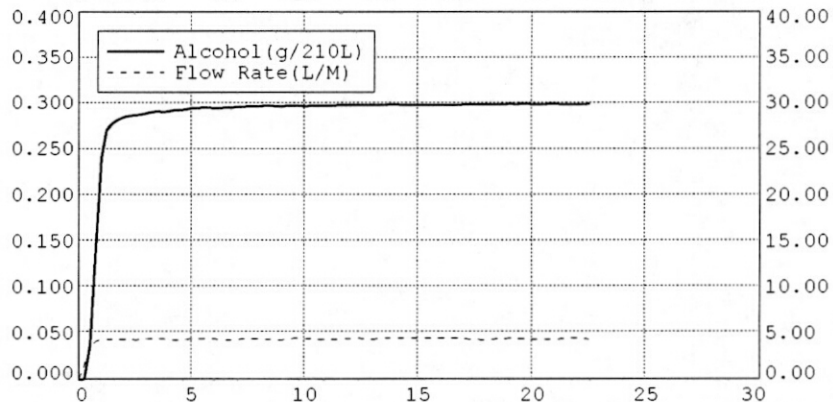
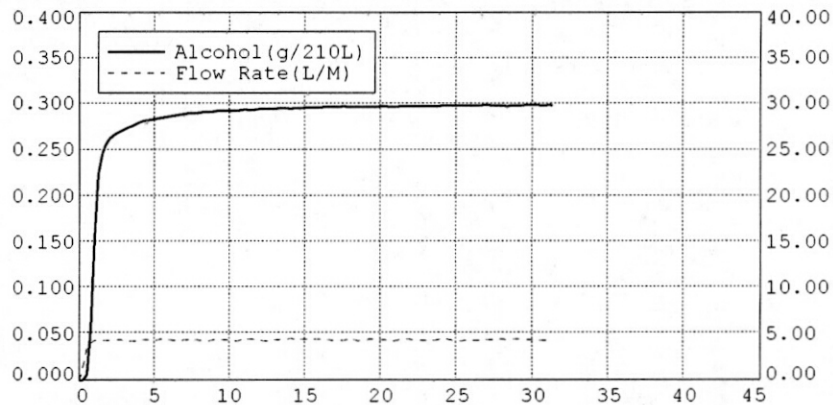
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	14:47
INTERNAL STANDARD	VERIFIED	14:47
EXTERNAL STANDARD	0.298	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.298	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.298	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.299	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.299	14:54
BLANK TEST	0.000	14:55

Average = 0.2990
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 09/11/2012
Time: 10:56:30

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

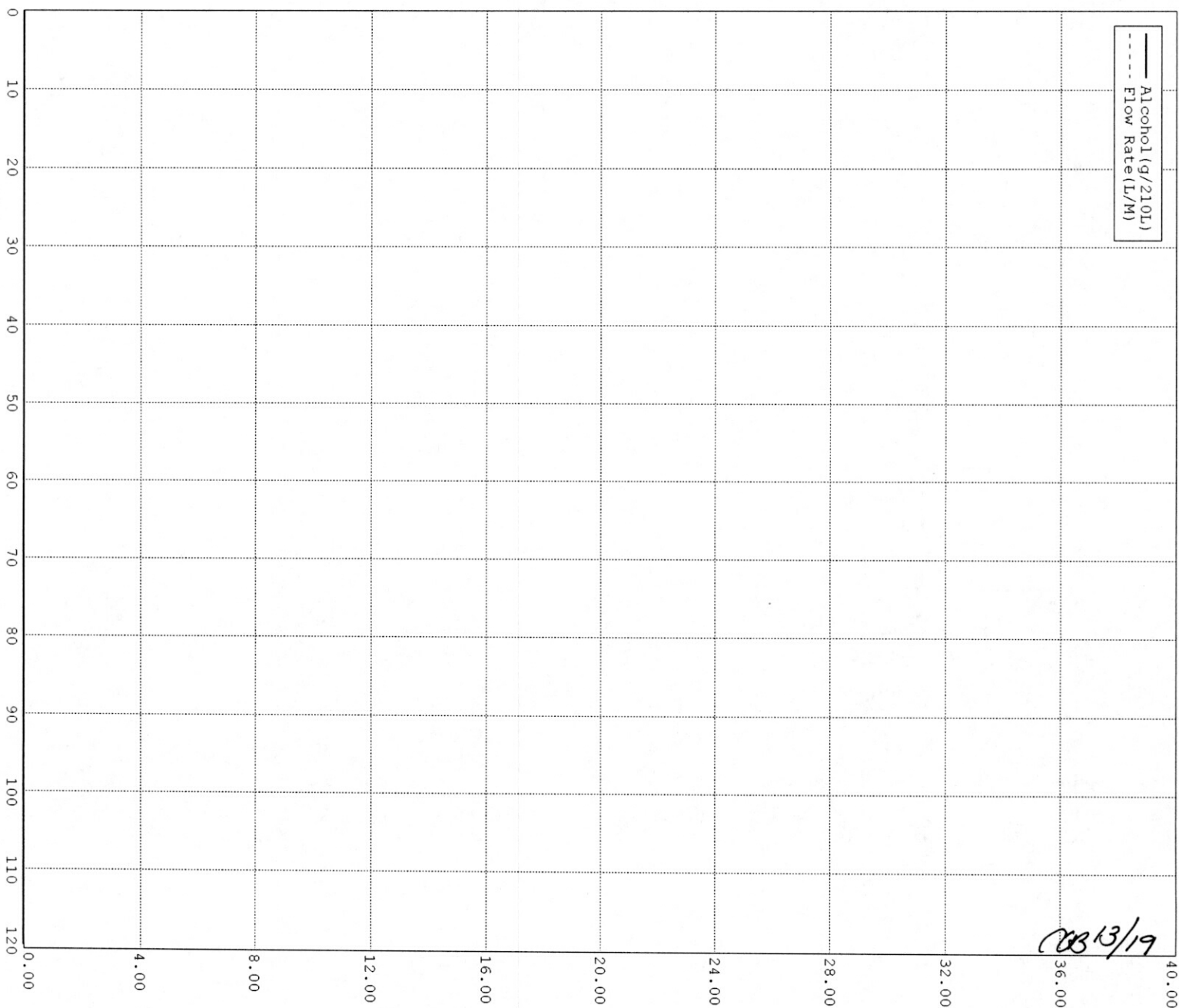
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

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

DIAGNOSTIC CHECK	PASSED	10:58
BLANK TEST	0.000	10:59
INTERNAL STANDARD	VERIFIED	10:59
EXTERNAL STANDARD	0.080	10:59
BLANK TEST	0.000	11:00
SUBJECT SAMPLE	INCOMPLETE	11:02

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377Date: 09/11/2012
Time: 11:03:55SUBJECT NAME:
TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:05
BLANK TEST	0.000	11:05
INTERNAL STANDARD	VERIFIED	11:05
EXTERNAL STANDARD	0.080	11:06
BLANK TEST	0.000	11:06
SUBJECT SAMPLE	INVALID	11:07

CB



CB 14/19

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100377

Date: 09/11/2012
 Time: 14:10:46

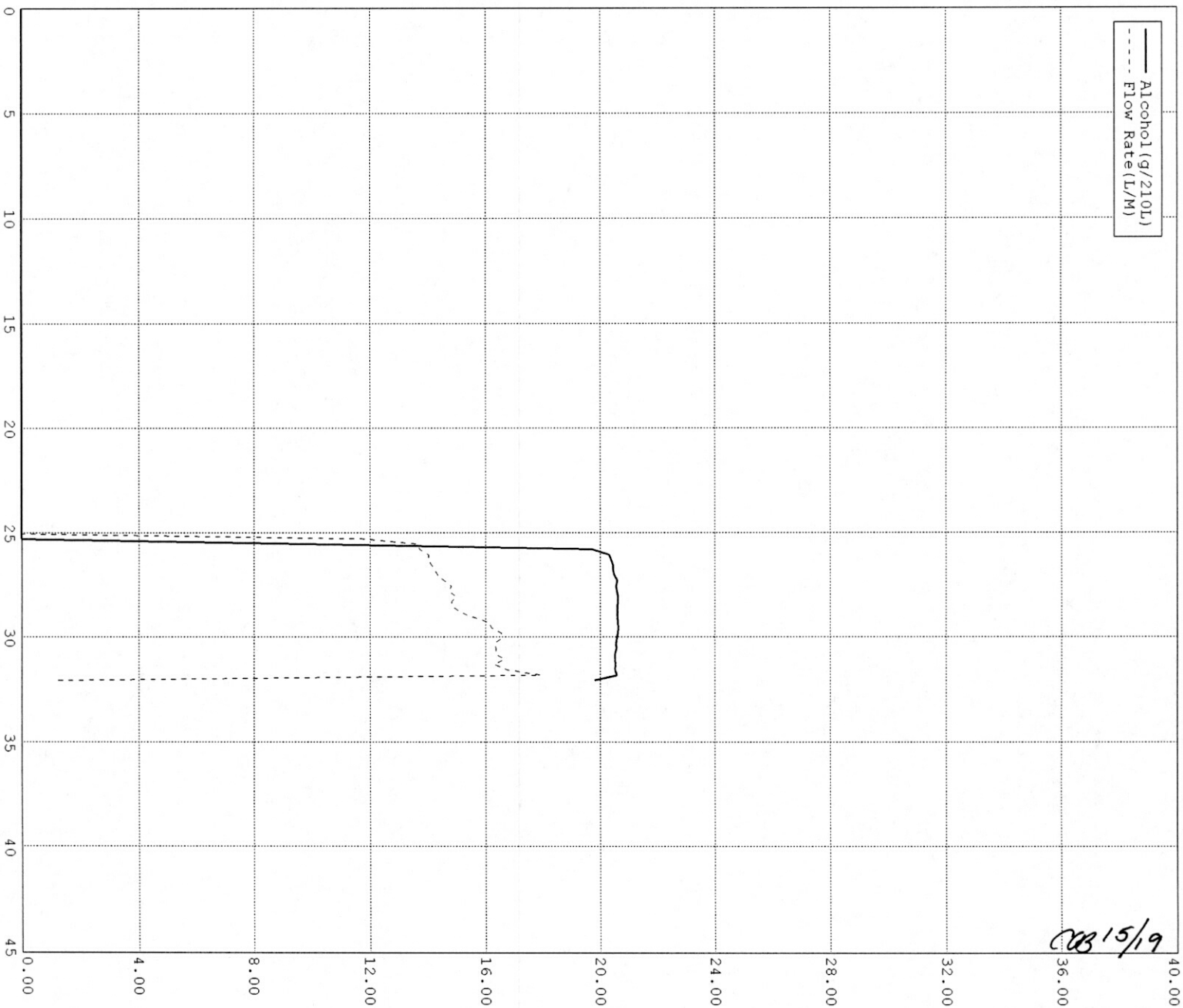
SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

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	14:11
BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:12
Xq = 0.082 (0.43%)		
EXTERNAL STANDARD	0.079	14:12
X[1] = 0.0799 (0.0001)	(0.0006)	
BLANK TEST	0.000	14:13
SUBJECT SAMPLE	INTERFERENCE	14:13
X[1] = 0.1000 (-0.0120)	(-0.0013)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100377

Date: 09/12/2012
 Time: 08:44:28

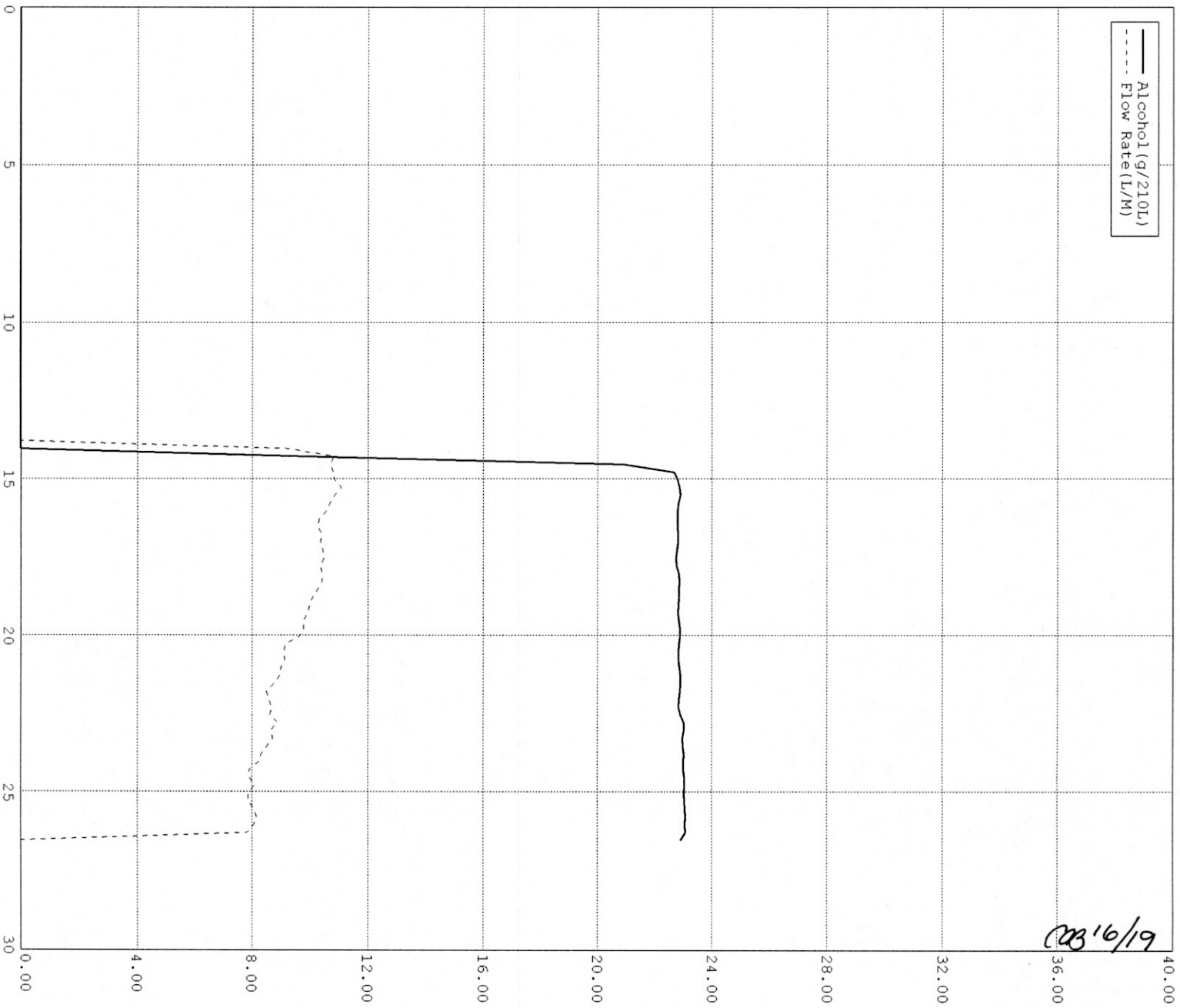
SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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 29.47: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 08:46
 BLANK TEST 0.000 08:46
 INTERNAL STANDARD VERIFIED 08:46
 $X_q = 0.082$ (0.85%)
 EXTERNAL STANDARD 0.079 08:46
 $X[1] = 0.0798$ (-0.0002) (0.0003)
 BLANK TEST 0.000 08:47
 SUBJECT SAMPLE INTERFERENCE 08:47
 $X[1] = 0.1148$ (-0.0278) (-0.0010)



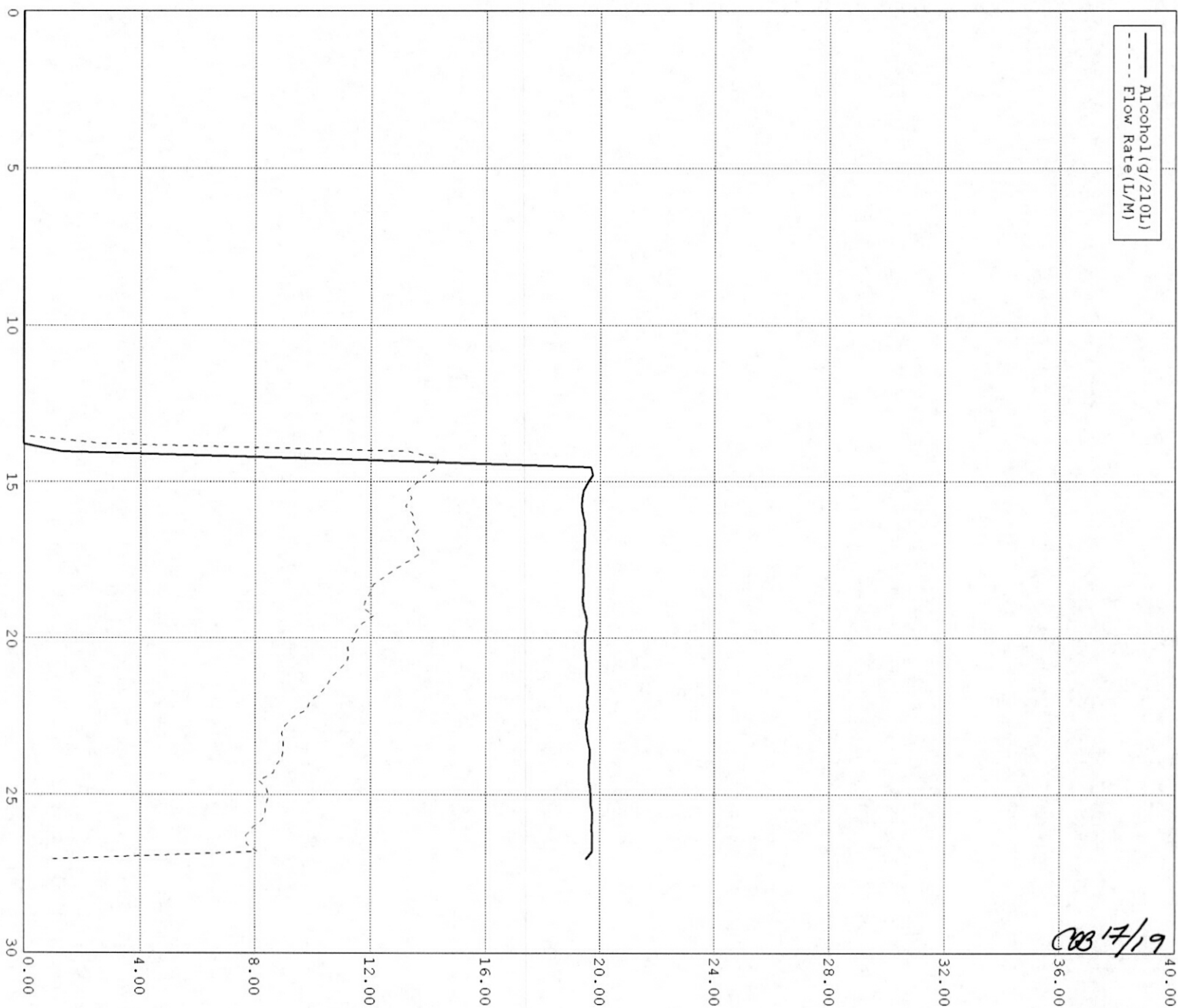
09/16/12

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377Date: 09/12/2012
Time: 08:36:25SUBJECT NAME:
TEST TEST
LICENSE #: NEG-CONTROLOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.46: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:37
BLANK TEST	0.000	08:37
INTERNAL STANDARD	VERIFIED	08:37
Xq = 0.083 (1.17%)		
EXTERNAL STANDARD	0.080	08:37
X[1] = 0.0803 (0.0004)	(-0.0002)	
BLANK TEST	0.000	08:38
SUBJECT SAMPLE (Vol=2.39L)	0.098	08:39
X[1] = 0.0985 (-0.0006)	(-0.0017)	
BLANK TEST	0.000	08:40
EXTERNAL STANDARD	0.079	08:40
X[1] = 0.0794 (0.0001)	(-0.0005)	
BLANK TEST	0.000	08:41

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 09/12/2012
Time: 08:52:34

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

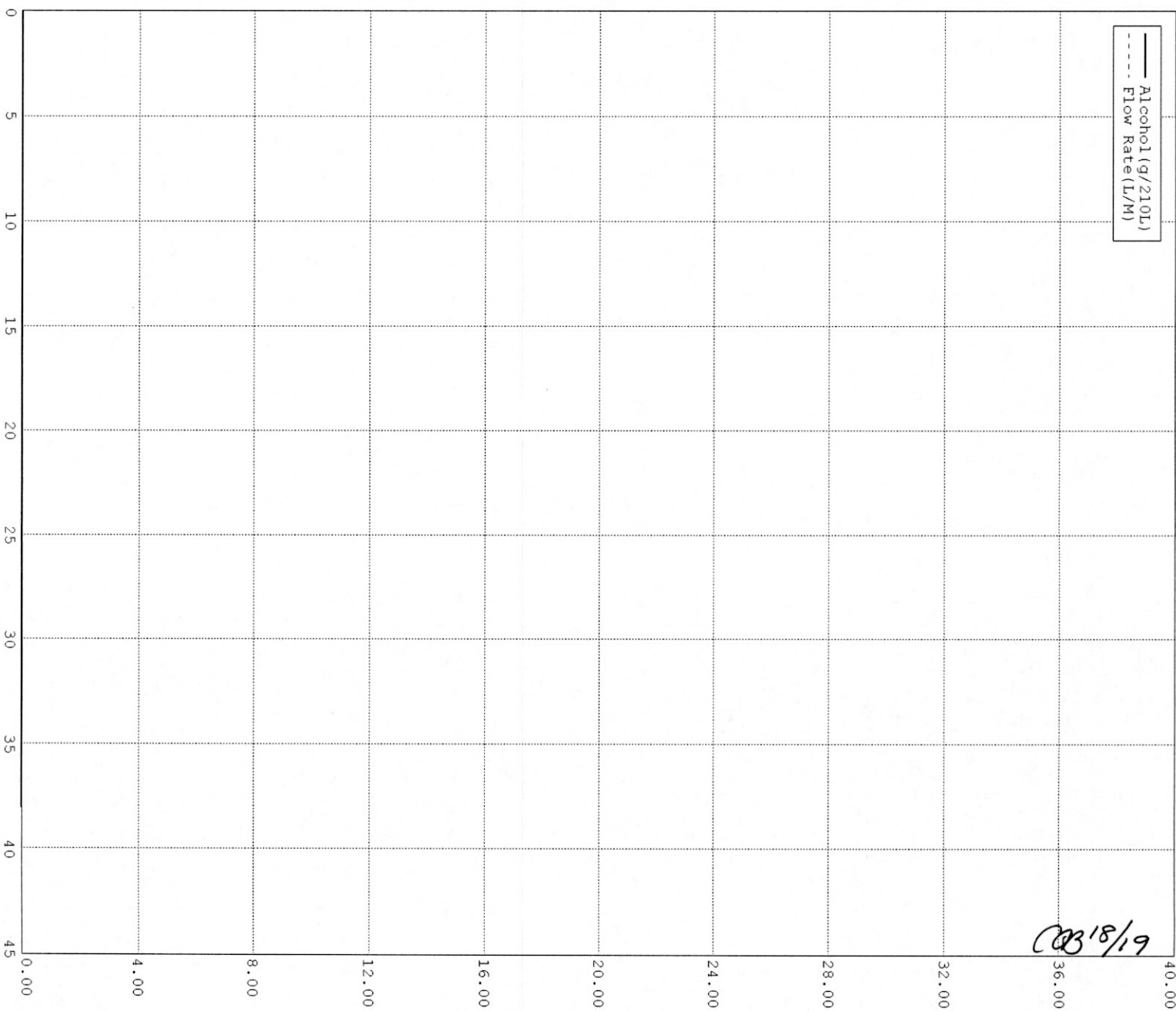
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

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

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

DIAGNOSTIC CHECK	PASSED	08:54
BLANK TEST	0.000	08:54
INTERNAL STANDARD	VERIFIED	08:54
EXTERNAL STANDARD	0.079	08:54
BLANK TEST	0.000	08:55

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100377

Date: 09/12/2012
Time: 09:06:55

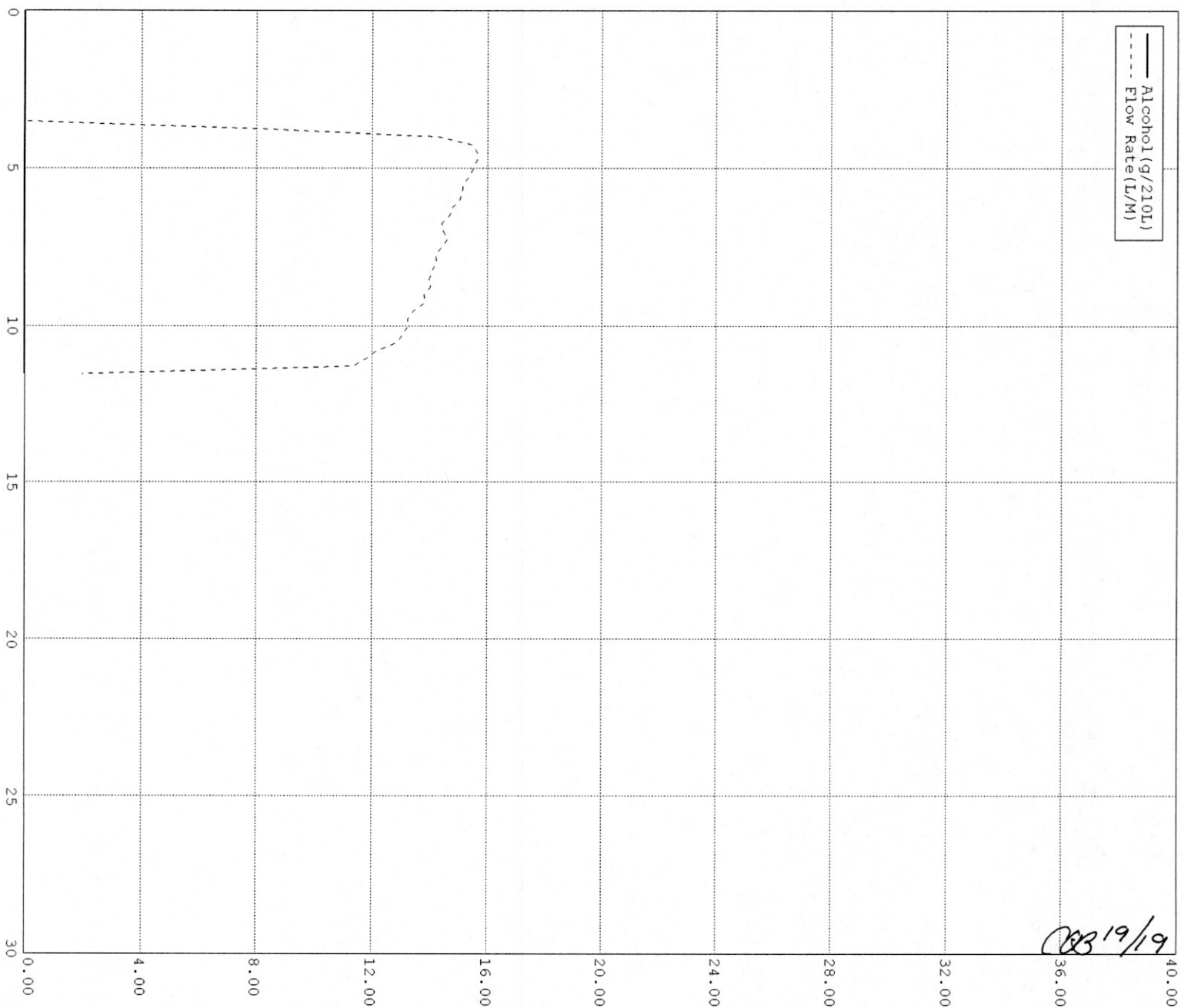
SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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	09:07
BLANK TEST	0.000	09:08
INTERNAL STANDARD	VERIFIED	09:08
EXTERNAL STANDARD	0.079	09:08
BLANK TEST	0.000	09:09
SUBJECT SAMPLE	0.000	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.080	09:10
BLANK TEST	0.000	09:11



Final page for report

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12/10/2013