

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100402 Analyst Colleen O'Bryant Start Date 11/23/12
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 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 DR 4162 Date Calibrated 10/09/2012vi. 0.300g/210L Mnf Guth Lot 12050 Exp 03/01/20141. Simulator S/N DR 4178 Date Calibrated 02/21/2012

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11100 Level 0.100 Exp 07/06/20131. Simulator S/N DR 5298 Date Calibrated 10/08/2012ii. Isopropanol - Mnf Guth Lot 11250 Level 0.100 Exp 12/06/20131. Simulator S/N SD1202 Date Calibrated 10/09/2012iii. Negative Control - Mnf Guth Lot 11200 Level 0.100 Exp 10/24/20131. Simulator S/N SD1176 Date Calibrated 10/09/2012d. 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 11/23/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 11/23/2012
Time: 07:02:12

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 46.0°C	PASSED

PUMP INFO

Flow Rate = 5.744 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: 100402

Date: 11/23/2012

Time: 7:27 AM

Temperatures (°C)

Sample Cell: 49.0°C

Breath Tube: 46.4°C

Current Barometer 29.4 in

Volume (Ltr) 1.48

Settings

Lamp: 1.88 V

Bias: 80 V

Cooler: 1.61 V

Chopper: 541 Hz

Voltages (V)

Flow: 1.04 V

Detector: -0.049 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 06/01/2011
Time: 08:56:02

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: REPC0100
BOTTLE #: 10003
EXPIRATION: 09/08/2012

Ca	=	0.1000		
CAL	=	0.966299	0.800	<= CAL < 1.200
b1	=	0.0006	0.0000	<= b1 < 0.0040
b2	=	0.0054	0.0010	<= b2 < 0.0100
b3	=	0.0002	0.0000	<= b3 < 0.0040
Xq	=	0.0785	0.0500	<= Xq < 0.2000
a21	=	1.174059	1.050	<= a21 < 1.300
a31	=	0.375916	0.300	<= a31 < 0.800

084/19

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 11/23/2012
 Time: 07:28:30

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

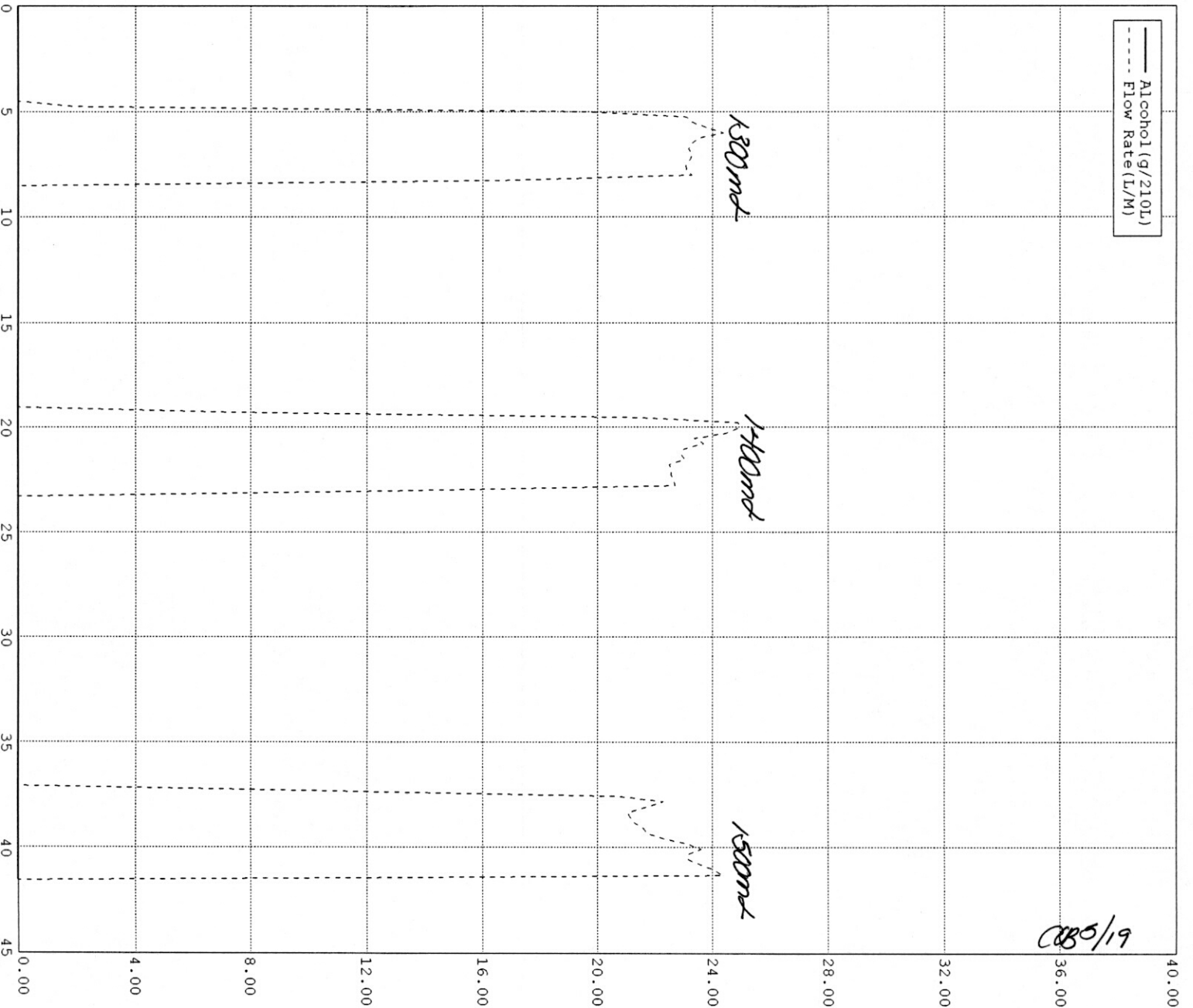
OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.35: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	07:36
BLANK TEST	0.000	07:36
INTERNAL STANDARD	VERIFIED	07:36
EXTERNAL STANDARD	0.078	07:36
BLANK TEST	0.000	07:37
SUBJECT SAMPLE	0.000	07:38
BLANK TEST	0.000	07:39
EXTERNAL STANDARD	0.078	07:39
BLANK TEST	0.000	07:40

Colleen



LINEARITY CHECK

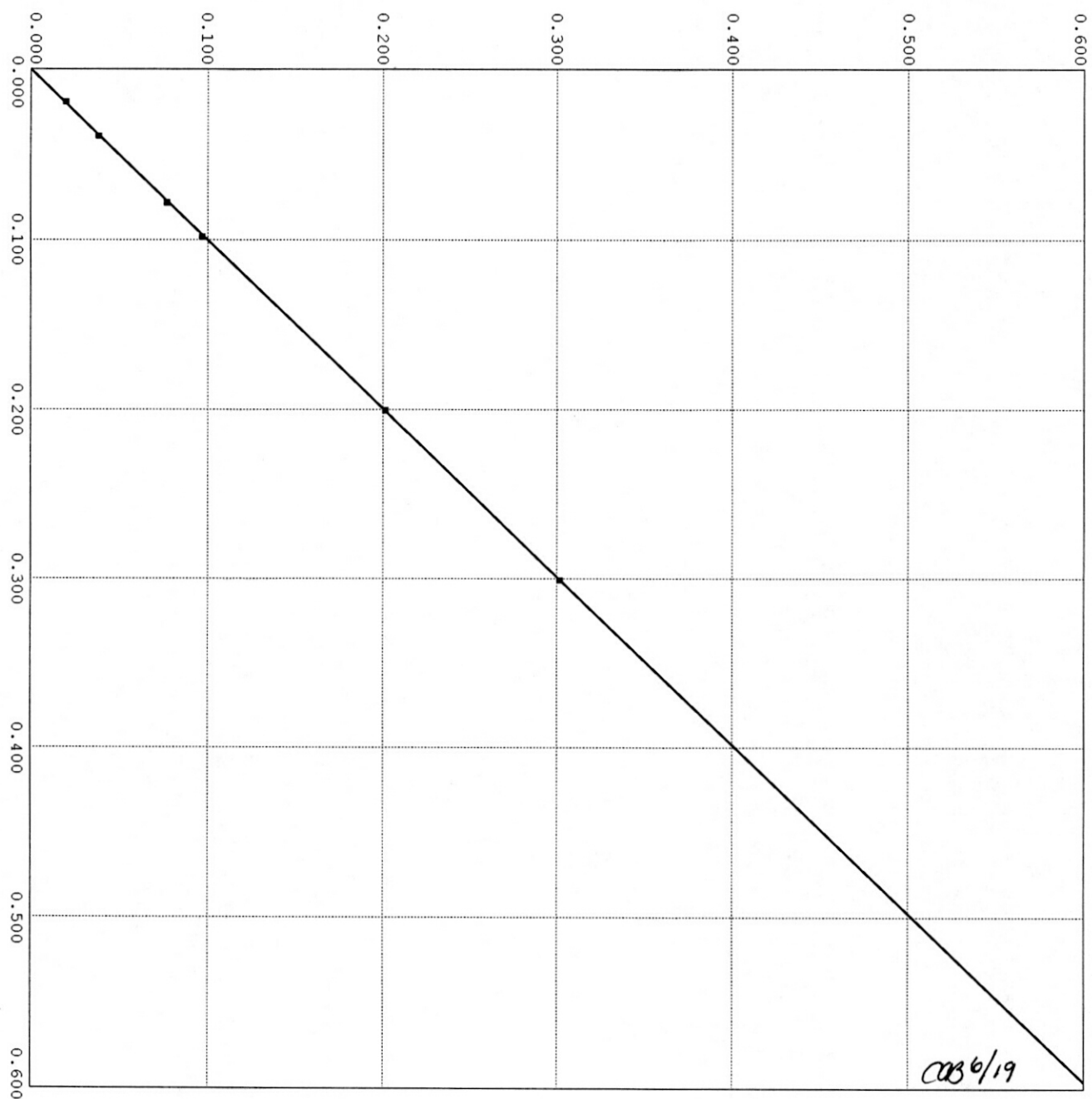
Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 11/23/2012
Time: 07:56:14

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0204	0.0003
0.039	0.0393	0.0002
0.078	0.0780	0.0002
0.098	0.0978	0.0002
0.200	0.2023	0.0001
0.300	0.3023	0.0002

SLOPE = 1.007286
 R^2 = 0.999943



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100402

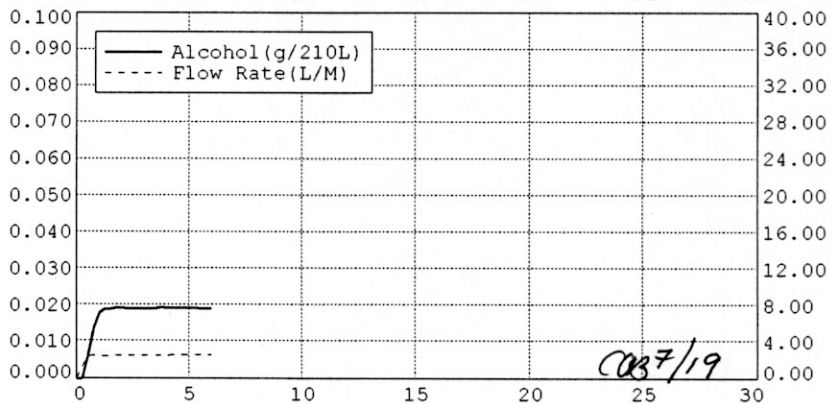
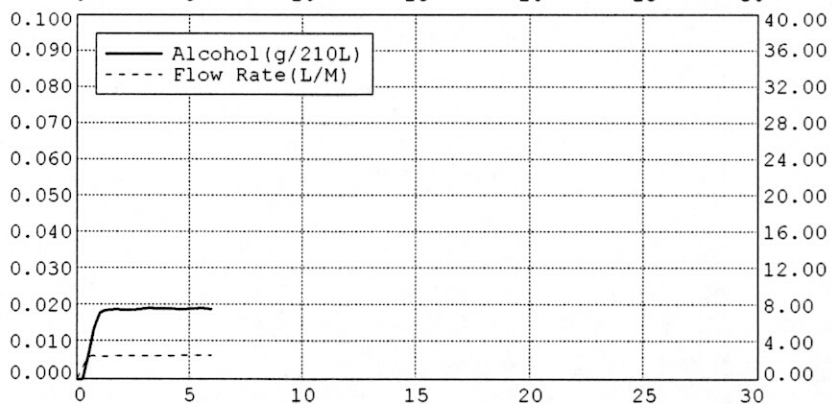
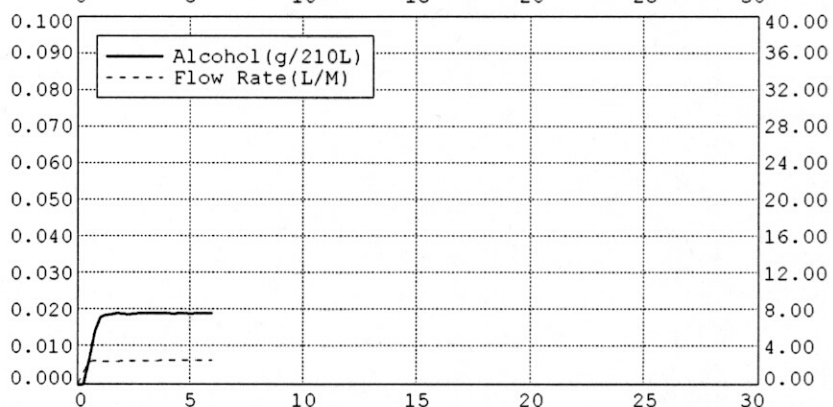
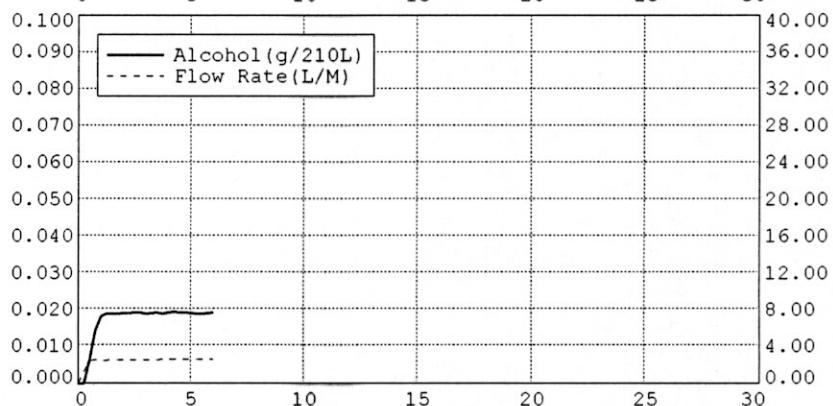
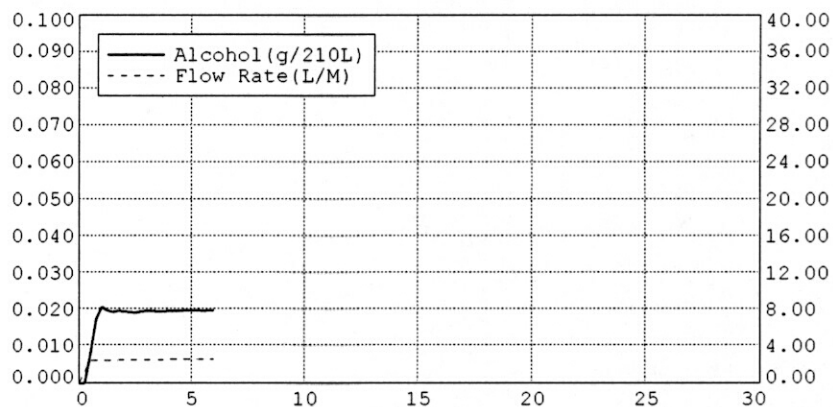
Date: 11/23/2012
Time: 07:56:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.36: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:05
INTERNAL STANDARD	VERIFIED	08:05
EXTERNAL STANDARD	0.020	08:05
BLANK TEST	0.000	08:06
EXTERNAL STANDARD	0.020	08:06
BLANK TEST	0.000	08:07
EXTERNAL STANDARD	0.020	08:07
BLANK TEST	0.000	08:08
EXTERNAL STANDARD	0.020	08:08
BLANK TEST	0.000	08:09
EXTERNAL STANDARD	0.020	08:10
BLANK TEST	0.000	08:10

Average = 0.0204
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100402

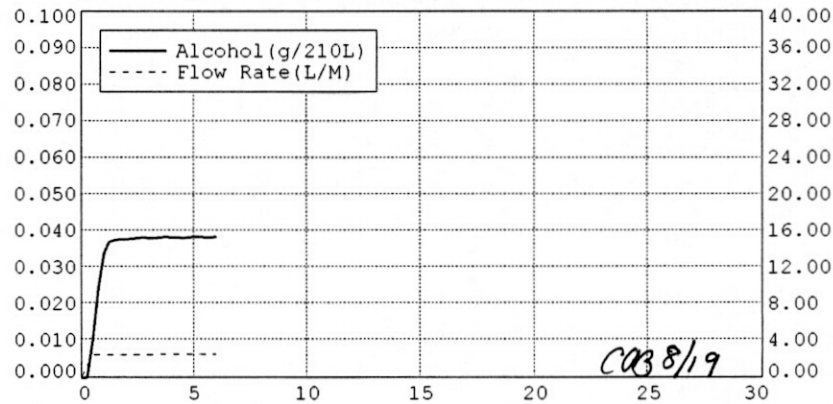
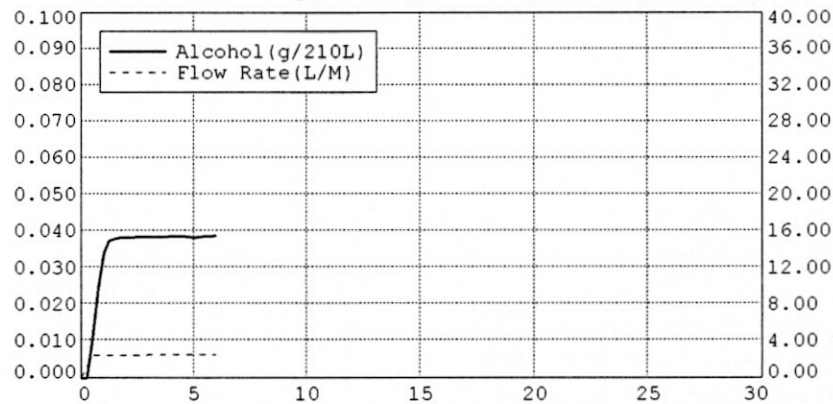
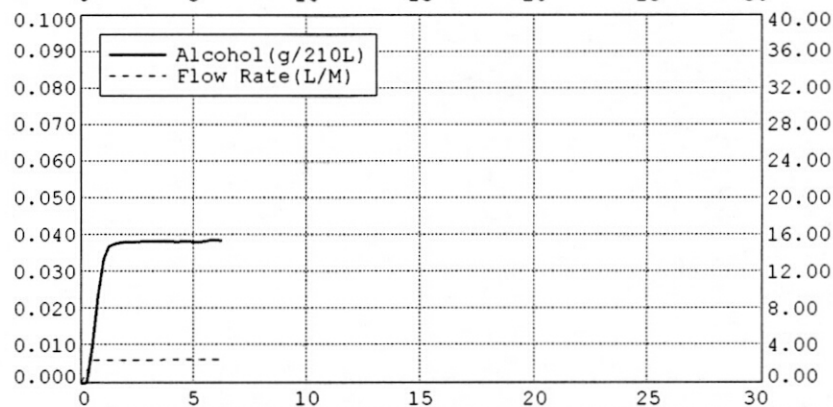
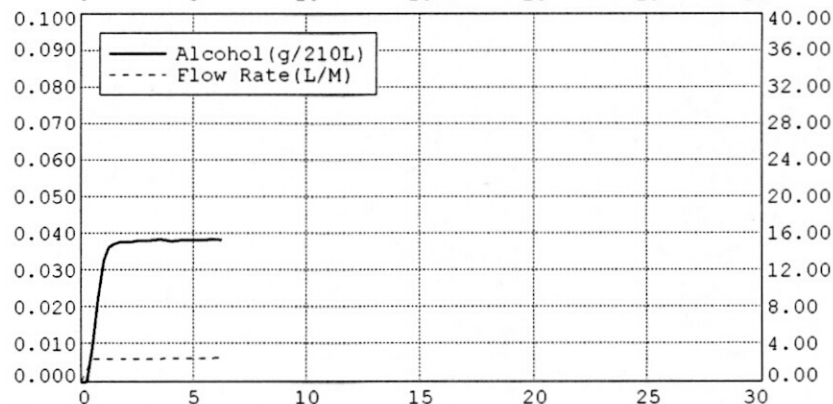
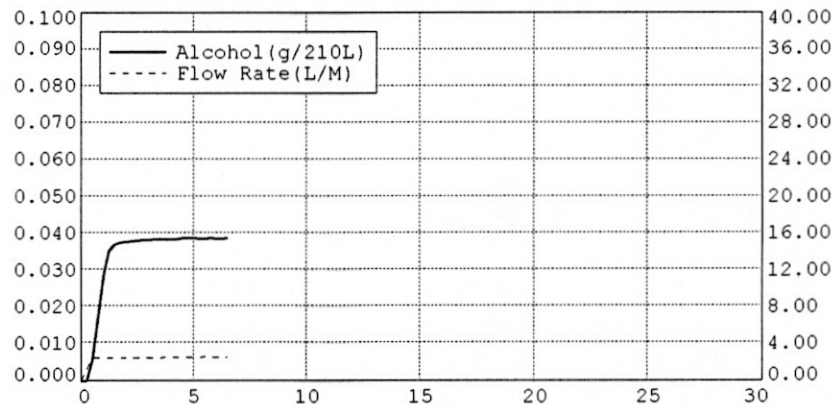
Date: 11/23/2012
Time: 08:11:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.36: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:13
INTERNAL STANDARD	VERIFIED	08:13
EXTERNAL STANDARD	0.039	08:13
BLANK TEST	0.000	08:14
EXTERNAL STANDARD	0.039	08:14
BLANK TEST	0.000	08:15
EXTERNAL STANDARD	0.039	08:15
BLANK TEST	0.000	08:16
EXTERNAL STANDARD	0.039	08:16
BLANK TEST	0.000	08:17
EXTERNAL STANDARD	0.039	08:17
BLANK TEST	0.000	08:18

Average = 0.0393
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100402

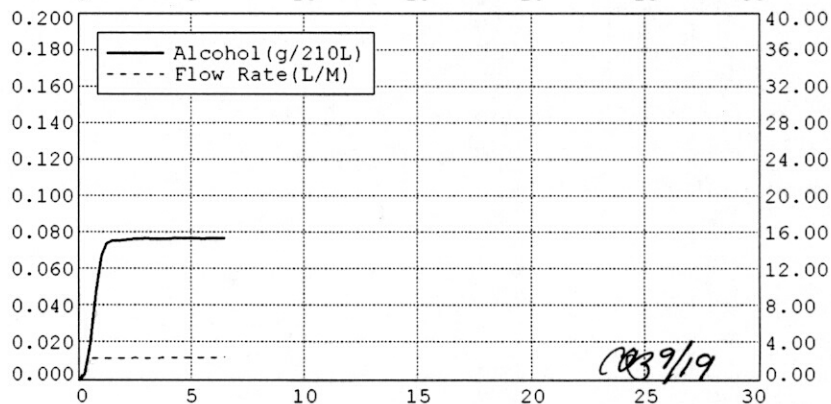
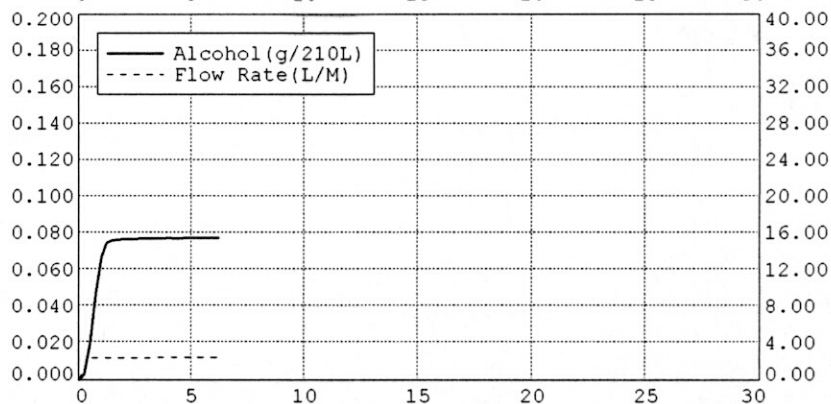
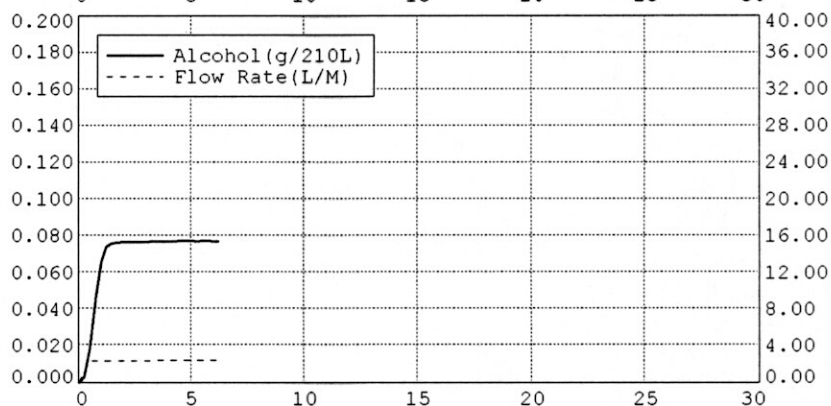
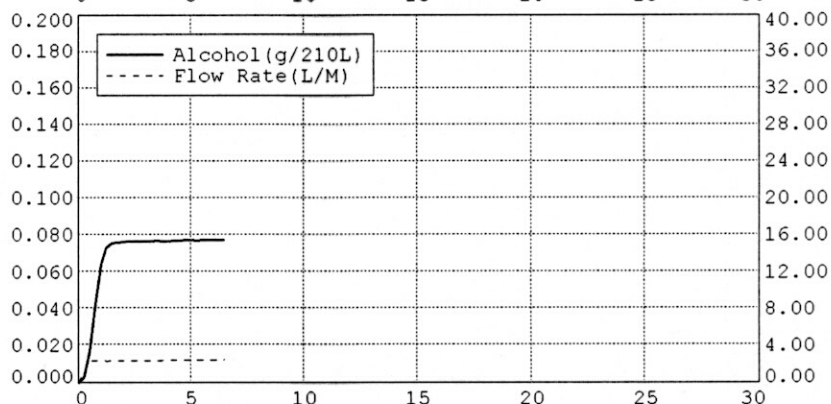
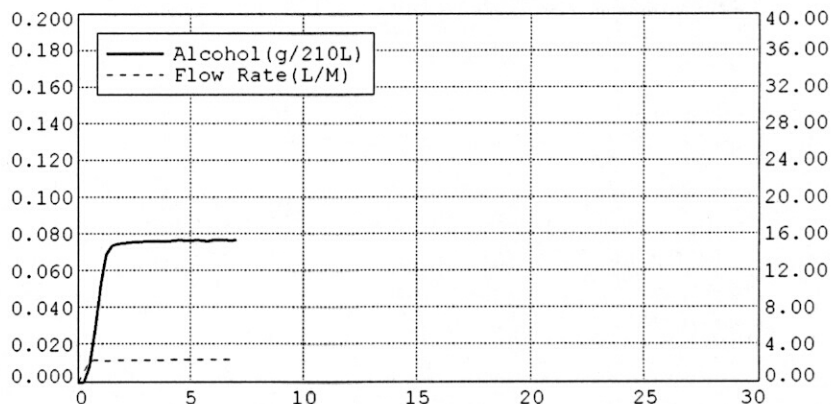
Date: 11/23/2012
Time: 08:21:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.37: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	08:23
INTERNAL STANDARD	VERIFIED	08:23
EXTERNAL STANDARD	0.077	08:23
BLANK TEST	0.000	08:24
EXTERNAL STANDARD	0.078	08:24
BLANK TEST	0.000	08:25
EXTERNAL STANDARD	0.078	08:25
BLANK TEST	0.000	08:26
EXTERNAL STANDARD	0.078	08:26
BLANK TEST	0.000	08:27
EXTERNAL STANDARD	0.077	08:27
BLANK TEST	0.000	08:28

Average = 0.0780
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

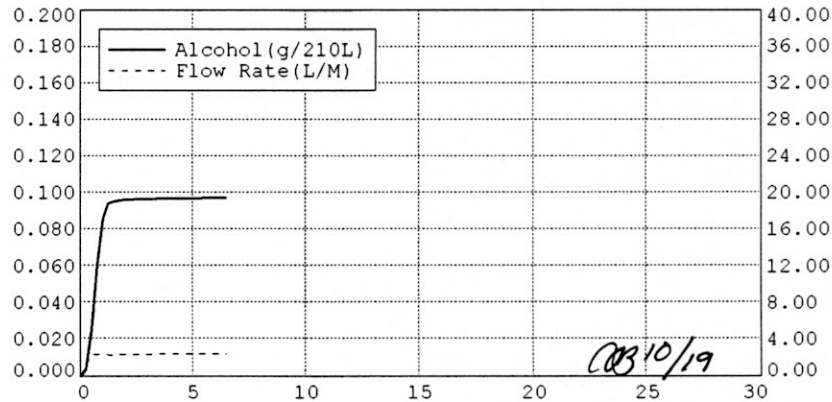
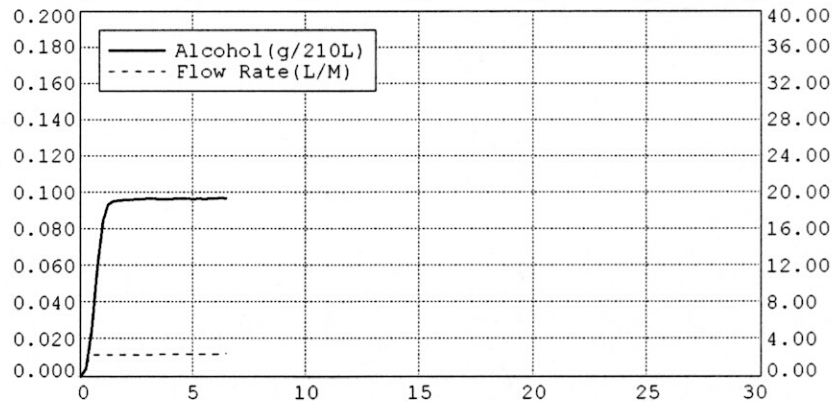
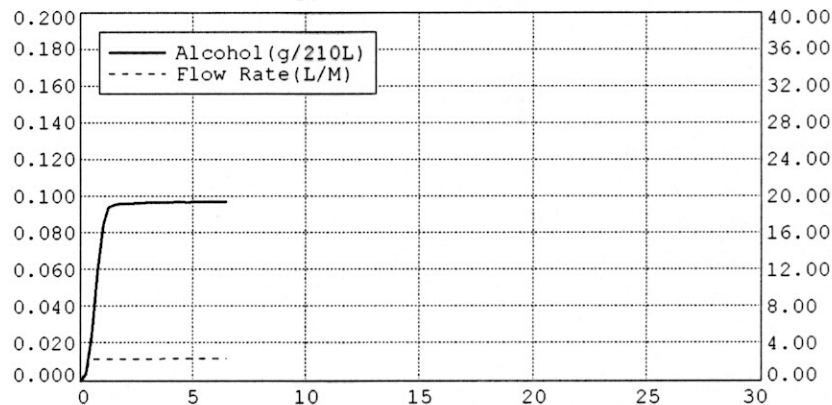
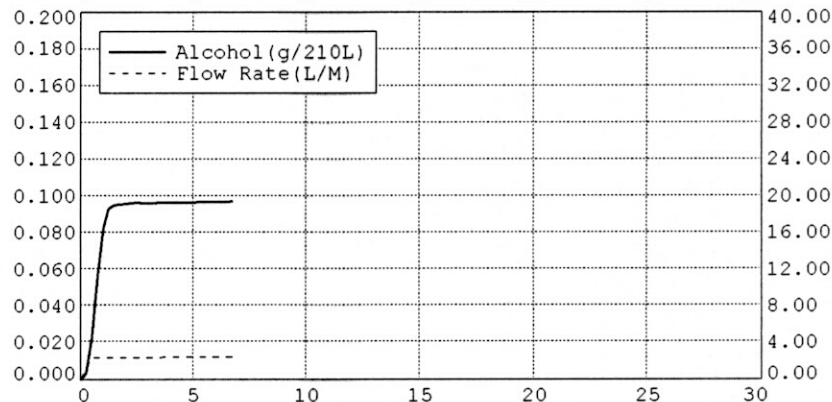
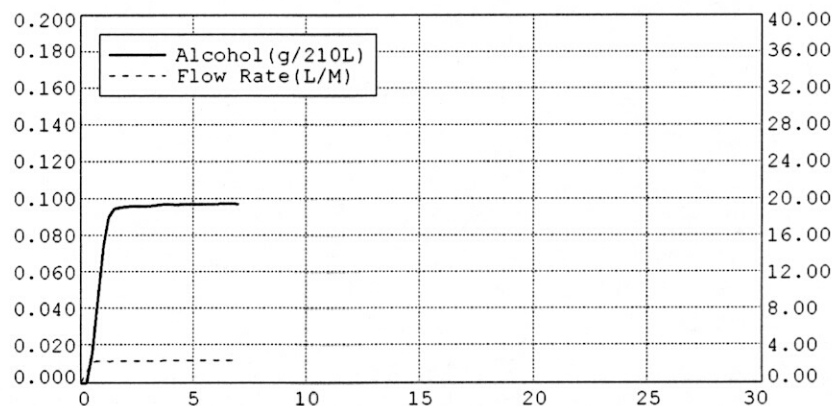
Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 11/23/2012
Time: 08:31:07

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.37: 0.098
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:32
INTERNAL STANDARD	VERIFIED	08:32
EXTERNAL STANDARD	0.098	08:32
BLANK TEST	0.000	08:33
EXTERNAL STANDARD	0.097	08:33
BLANK TEST	0.000	08:34
EXTERNAL STANDARD	0.097	08:34
BLANK TEST	0.000	08:35
EXTERNAL STANDARD	0.097	08:35
BLANK TEST	0.000	08:36
EXTERNAL STANDARD	0.097	08:37
BLANK TEST	0.000	08:38

Average = 0.0978
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

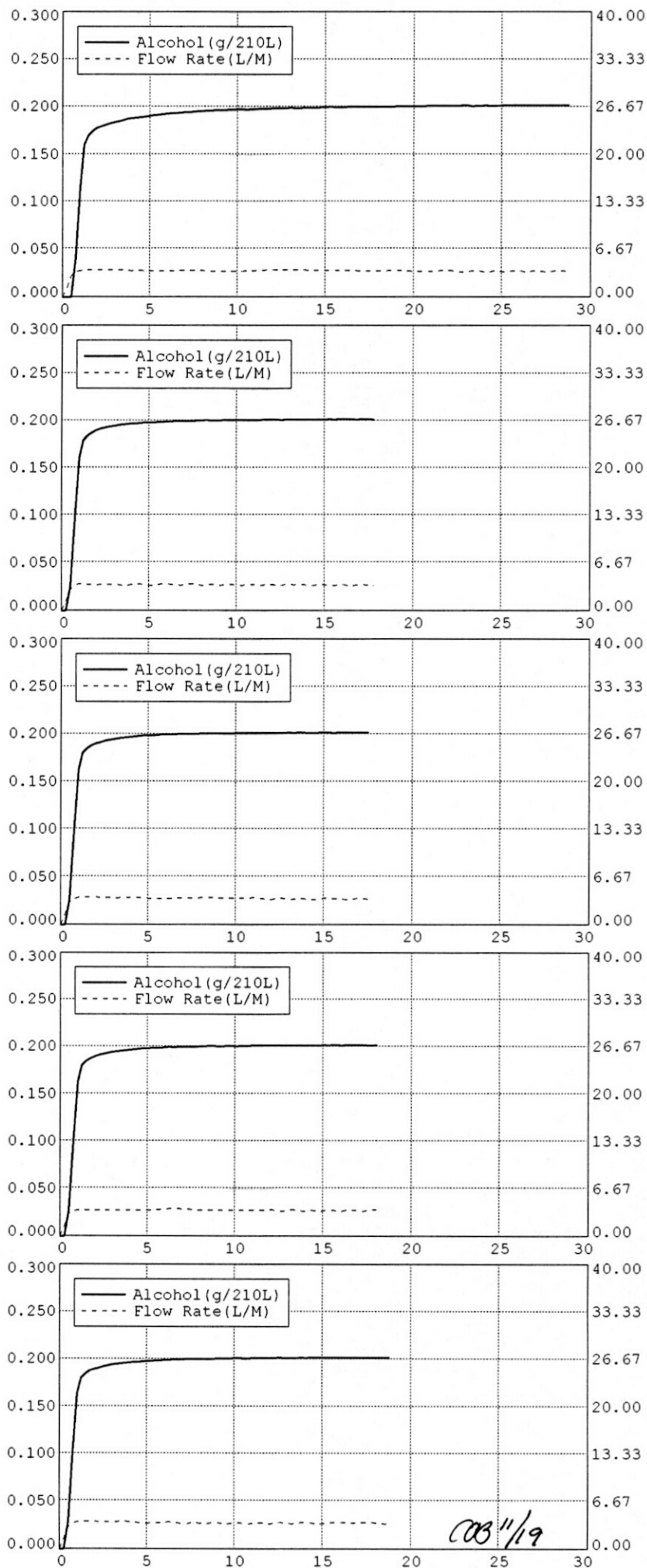
Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 11/23/2012
Time: 08:49:52

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

BLANK TEST	0.000	08:50
INTERNAL STANDARD	VERIFIED	08:51
EXTERNAL STANDARD	0.202	08:51
BLANK TEST	0.000	08:52
EXTERNAL STANDARD	0.202	08:53
BLANK TEST	0.000	08:53
EXTERNAL STANDARD	0.202	08:54
BLANK TEST	0.000	08:55
EXTERNAL STANDARD	0.202	08:55
BLANK TEST	0.000	08:56
EXTERNAL STANDARD	0.202	08:56
BLANK TEST	0.000	08:57

Average = 0.2023
Std Dev = 0.0001



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 11/23/2012
Time: 08:59:39

EXTERNAL STANDARD INFORMATION

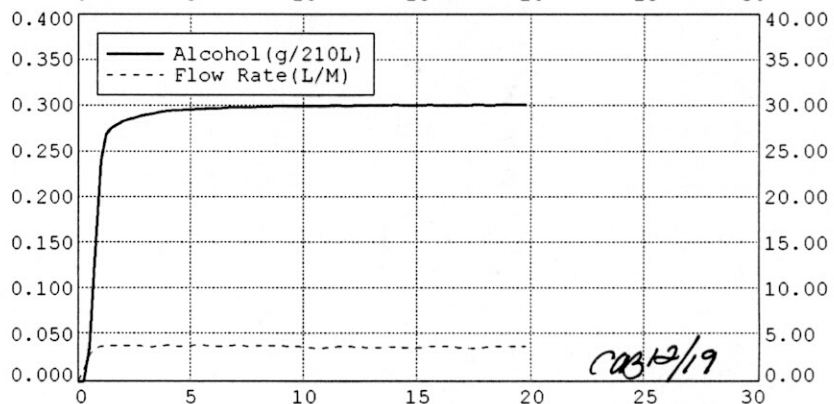
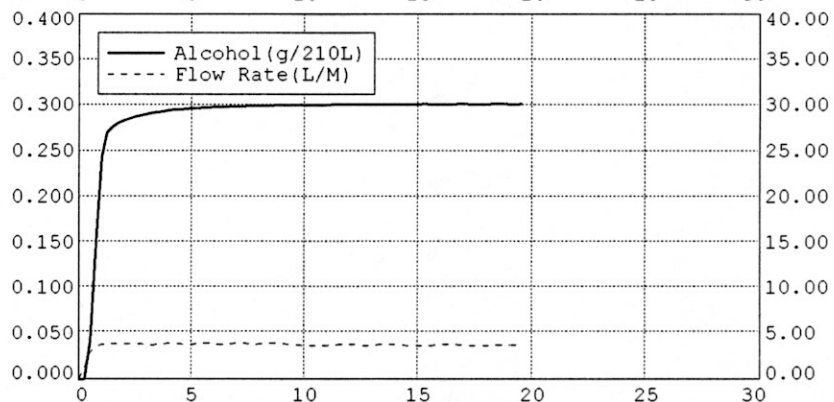
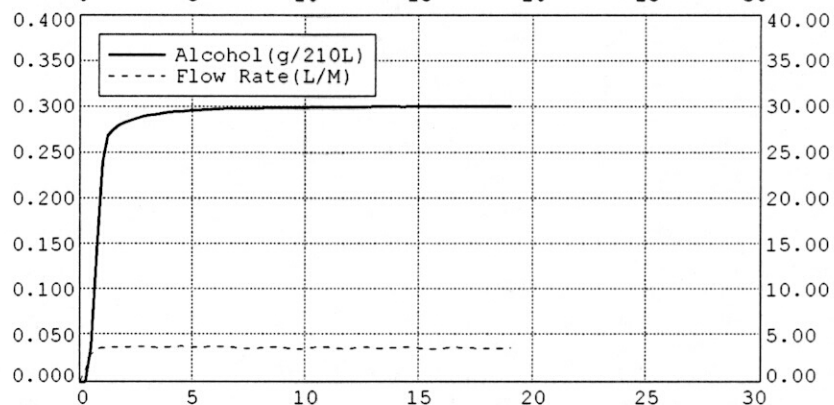
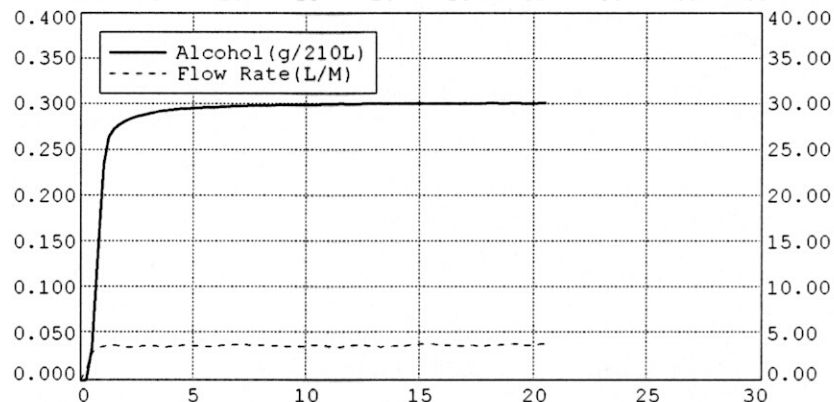
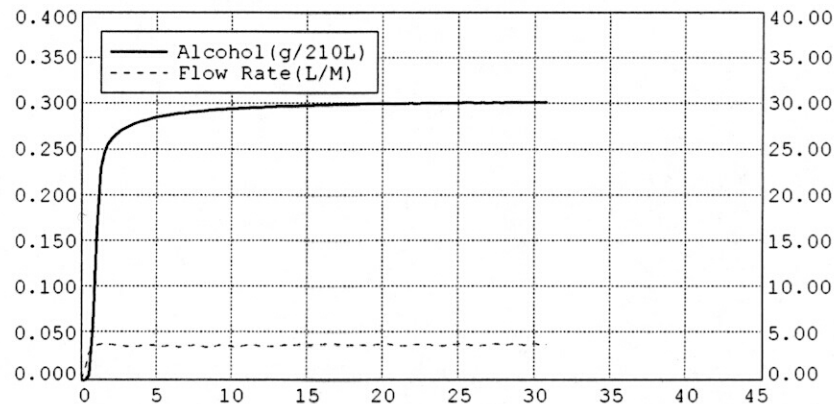
NOMINAL: 0.300

LOT #: 12050

EXPIRATION: 03/21/2014

BLANK TEST	0.000	09:01
INTERNAL STANDARD	VERIFIED	09:01
EXTERNAL STANDARD	0.302	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.302	09:03
BLANK TEST	0.000	09:04
EXTERNAL STANDARD	0.302	09:04
BLANK TEST	0.000	09:05
EXTERNAL STANDARD	0.302	09:06
BLANK TEST	0.000	09:06
EXTERNAL STANDARD	0.302	09:07
BLANK TEST	0.000	09:08

Average = 0.3023
Std Dev = 0.0002



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 11/23/2012
Time: 09:41:08

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

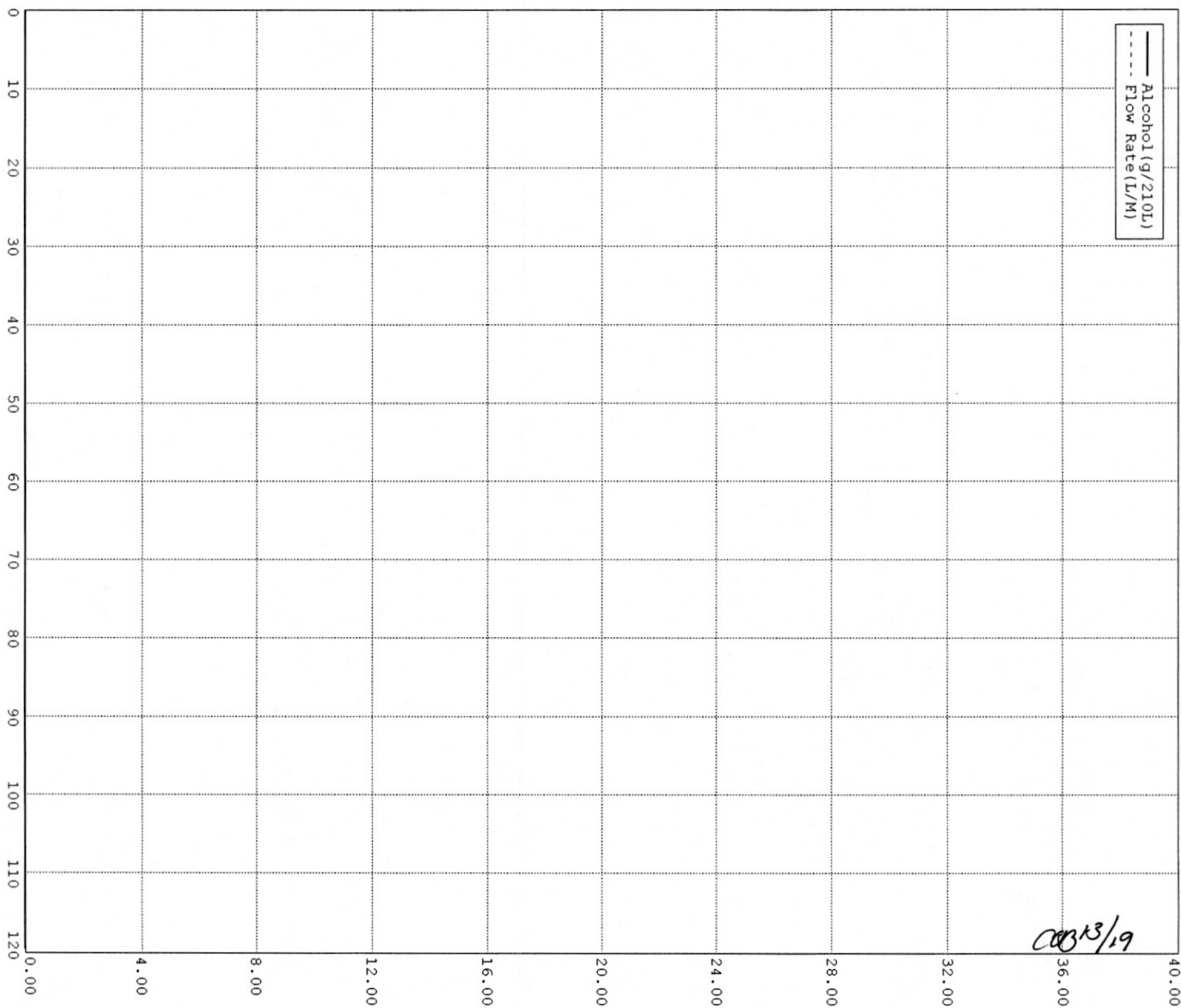
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.38: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:42
BLANK TEST	0.000	09:42
INTERNAL STANDARD	VERIFIED	09:42
EXTERNAL STANDARD	0.078	09:42
BLANK TEST	0.000	09:43
SUBJECT SAMPLE	INCOMPLETE	09:45

C



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 11/23/2012
Time: 09:47:49

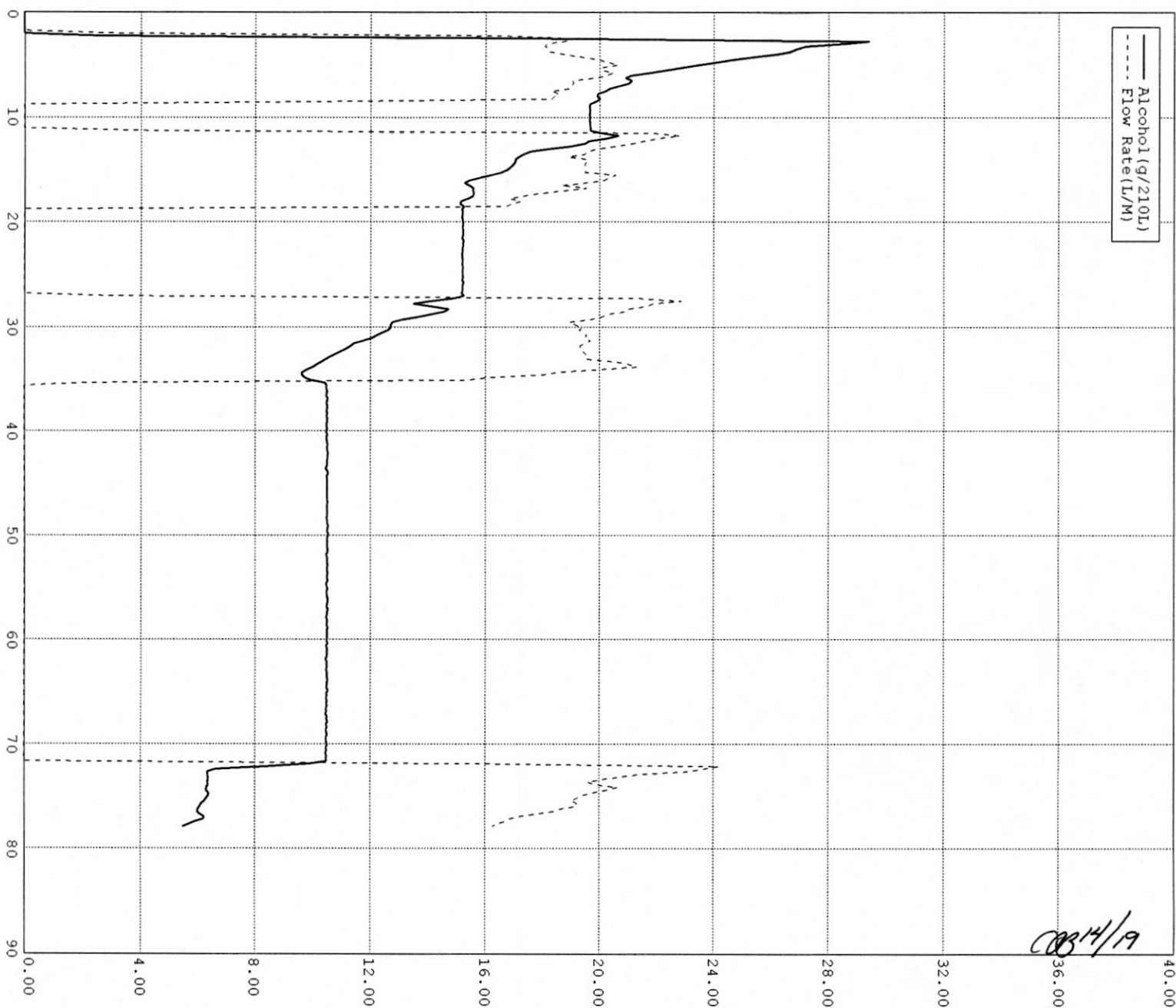
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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 29.38: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:48
BLANK TEST	0.000	09:49
INTERNAL STANDARD	VERIFIED	09:49
EXTERNAL STANDARD	0.077	09:49
BLANK TEST	0.000	09:50
SUBJECT SAMPLE	INVALID	09:51



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 11/23/2012
 Time: 09:22:00

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

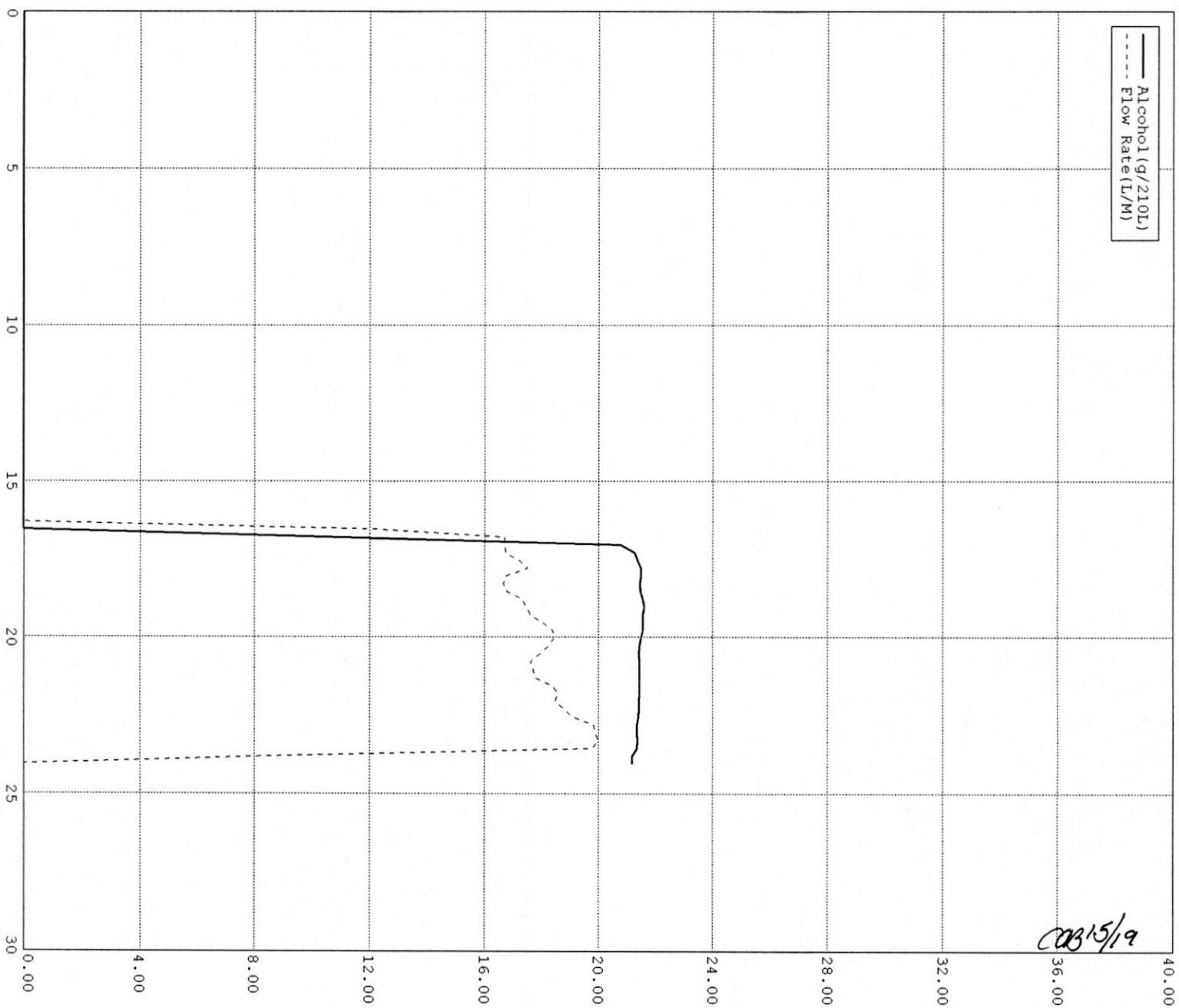
OPERATOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1324
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.36: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:23
BLANK TEST	0.000	09:23
INTERNAL STANDARD	VERIFIED	09:23
Xq = 0.078 (0.22%)	0.078	09:23
EXTERNAL STANDARD	X[1] = 0.0781 (-0.0014)	(0.0028)
BLANK TEST	0.000	09:24
SUBJECT SAMPLE	INTERFERENCE	09:25
X[1] = 0.1060 (-0.0159)	(0.0009)	

Q



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 11/23/2012
Time: 09:27:57

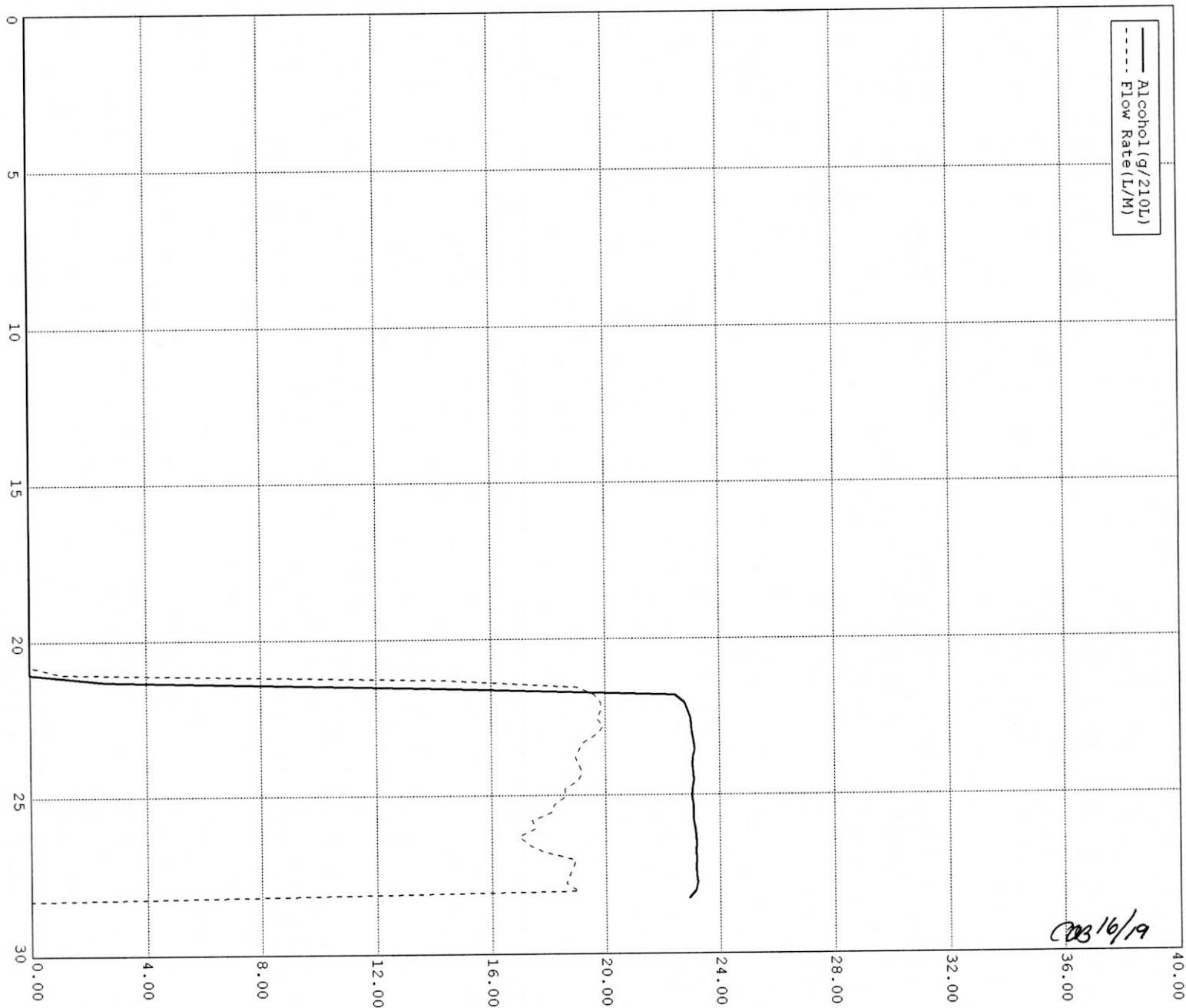
SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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 29.37: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

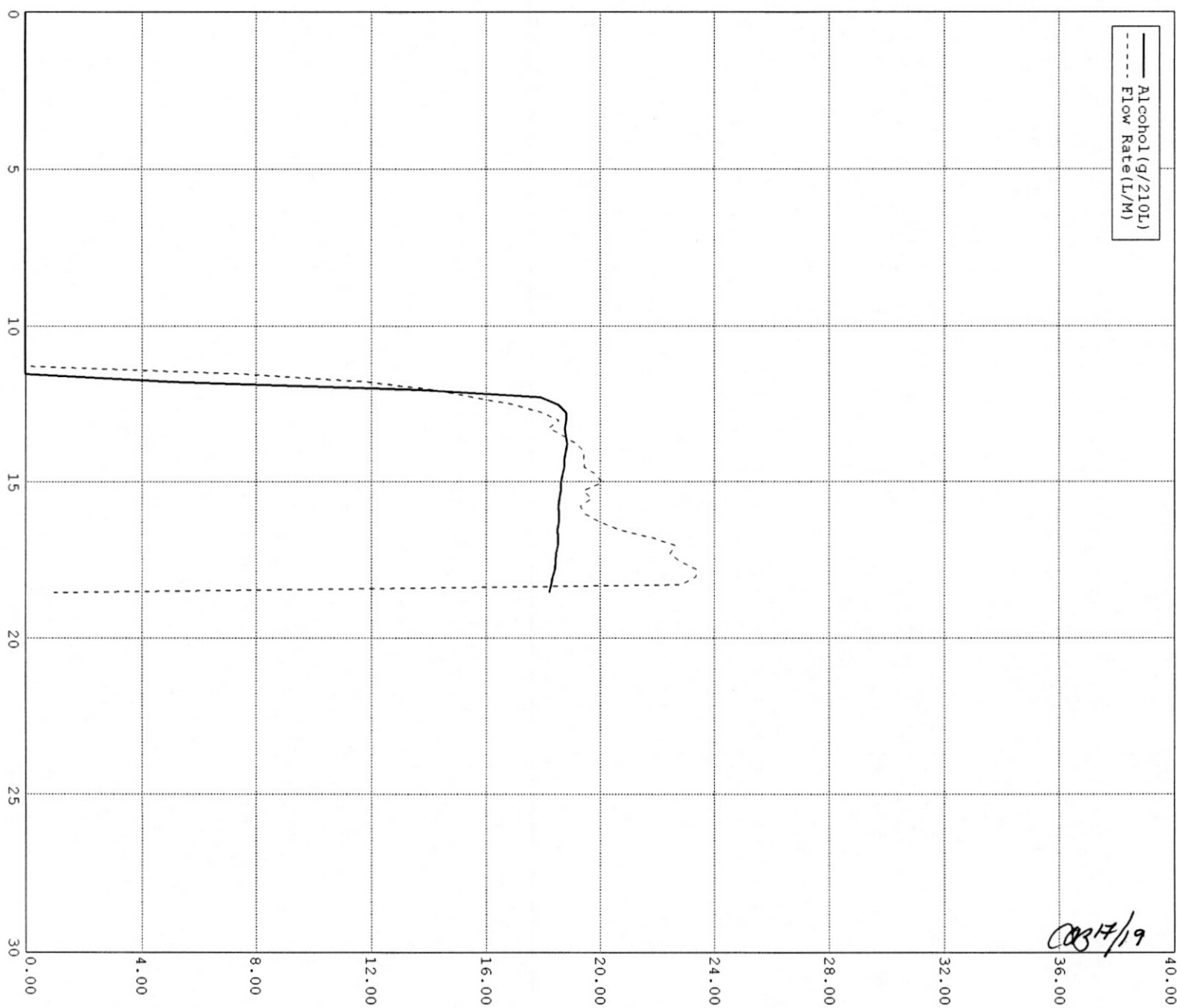
DIAGNOSTIC CHECK	PASSED	09:29
BLANK TEST	0.000	09:29
INTERNAL STANDARD	VERIFIED	09:29
Xq = 0.079 (0.44%)	0.078	09:29
EXTERNAL STANDARD	X[1] = 0.0784 (-0.0010) (0.0033)	
BLANK TEST	0.000	09:30
SUBJECT SAMPLE	INTERFERENCE	09:31
X[1] = 0.1150 (-0.0288) (0.0023)		



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100402Date: 11/23/2012
Time: 09:33:57SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVEOPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.37: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:35
BLANK TEST	0.000	09:35
INTERNAL STANDARD	VERIFIED	09:35
Xq = 0.078 (0.11%)		
EXTERNAL STANDARD	0.077	09:35
X[1] = 0.0779 (-0.0016)	(0.0032)	
BLANK TEST	0.000	09:36
SUBJECT SAMPLE (Vol=2.22L)	0.091	09:37
X[1] = 0.0913 (-0.0008)	(0.0012)	
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.077	09:38
X[1] = 0.0778 (-0.0015)	(0.0026)	
BLANK TEST	0.000	09:39



SUBJECT TEST

 Alaska Department of Public Safety
 DATA MASTER dmt: 100402

Date: 11/23/2012
 Time: 09:53:27

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

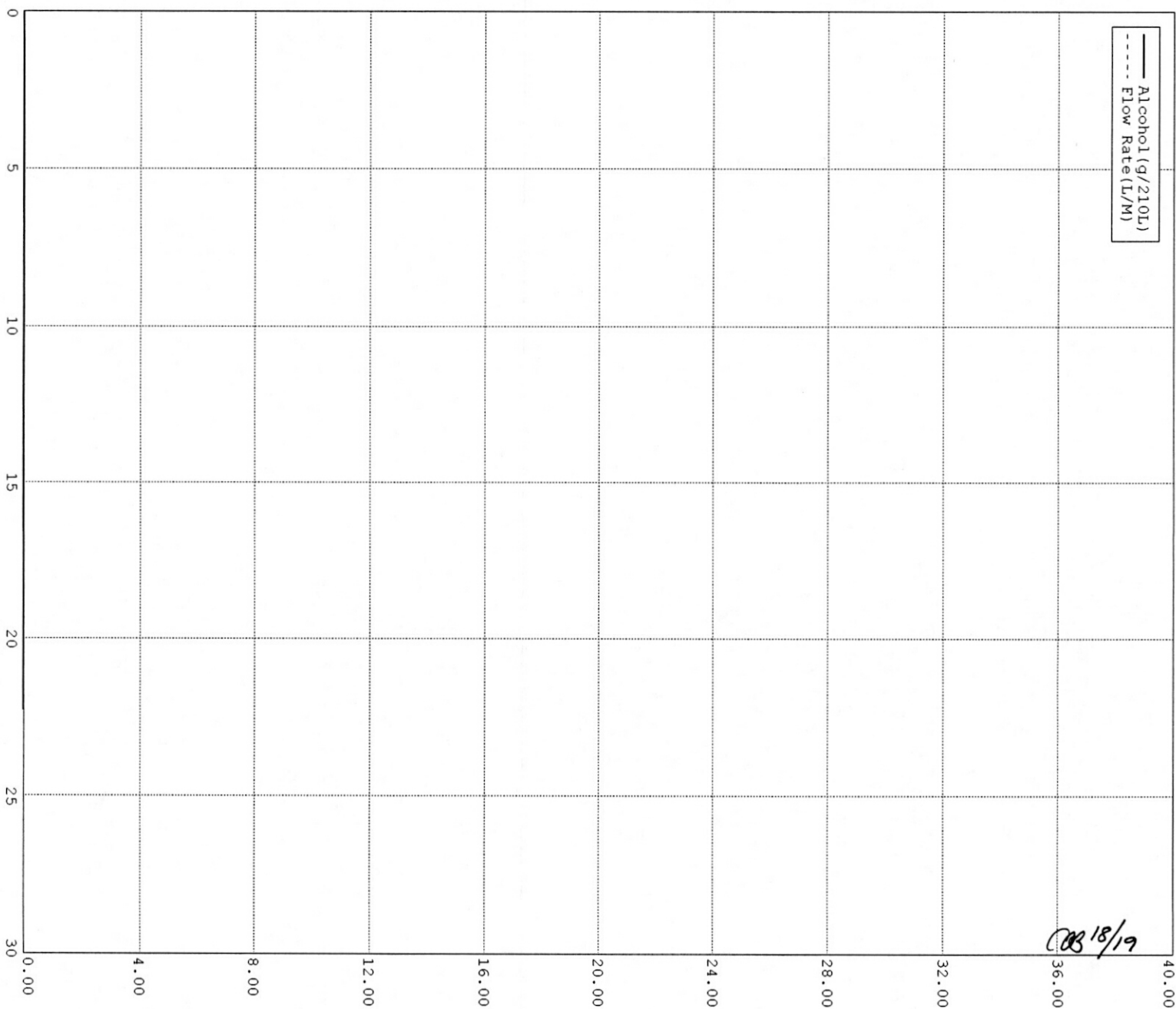
OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.39: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:55
BLANK TEST	0.000	09:55
INTERNAL STANDARD	VERIFIED	09:55
EXTERNAL STANDARD	0.077	09:55
BLANK TEST	0.000	09:56

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402
-----Date: 11/23/2012
Time: 10:08:37SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKINGOPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 12-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

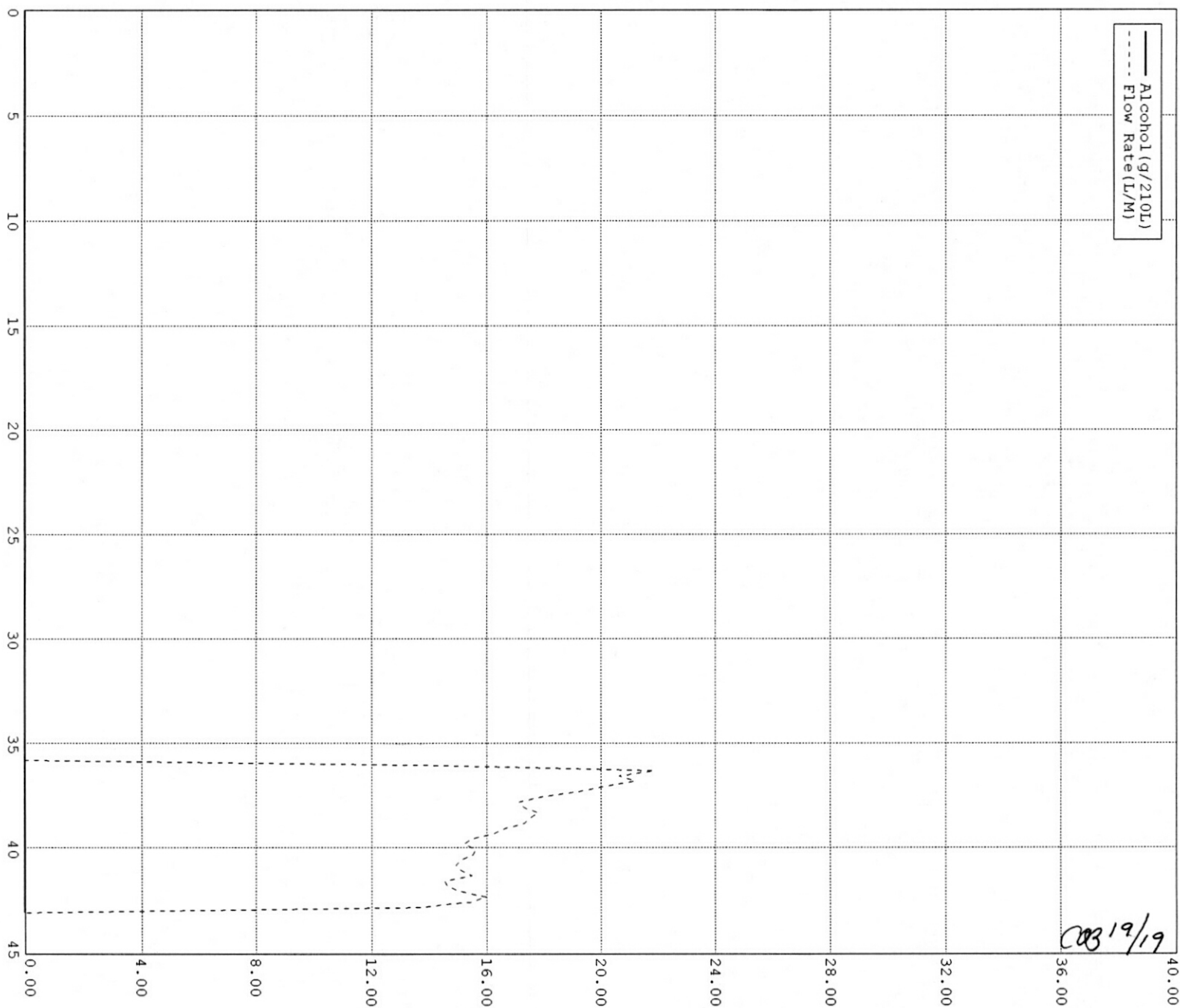
NOMINAL: 0.080

TARGET AT 29.39: 0.078

LOT #: 02012080A1

EXPIRATION: 03/01/2014

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



Final page for report

\

\ANCSCLSAN01\JTRAX\CASEDOCS\B-100402\B-100402 ECF-20131

12/10/2013