

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100374 Analyst Colleen O'Bryant Start Date 7/25/2012
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 1700 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 SD1198 Date Calibrated 01/10/2012vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/20131. Simulator S/N DR5298 Date Calibrated 9/20/2011

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/20131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 07/06/20131. Simulator S/N DR6267 Date Calibrated 01/10/2012iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/20131. Simulator S/N SD1202 Date Calibrated 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 7/25/12

003/19

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100374

Date: 07/25/2012
Time: 06:40:16

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 5.294 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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08/2/19

Technician Screen

DATAMASTER dmt: 100374

Date: 07/25/2012

Time: 6:44 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 47.7°C

Current Barometer 30.2 in

Volume (Ltr) 1.60

Settings

Lamp: 1.62 V

Bias: 80 V

Cooler: 1.48 V

Chopper: 533 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.004 V

03/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100374

Date: 05/18/2011
Time: 14:37:55

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca	=	0.1000		
CAL	=	0.962091	0.800	<= CAL < 1.200
b1	=	0.0003	0.0000	<= b1 < 0.0040
b2	=	0.0070	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0899	0.0500	<= Xq < 0.2000
a21	=	1.196523	1.050	<= a21 < 1.300
a31	=	0.386146	0.300	<= a31 < 0.800

COB 4/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100374

Date: 07/25/2012
Time: 06:45:10

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

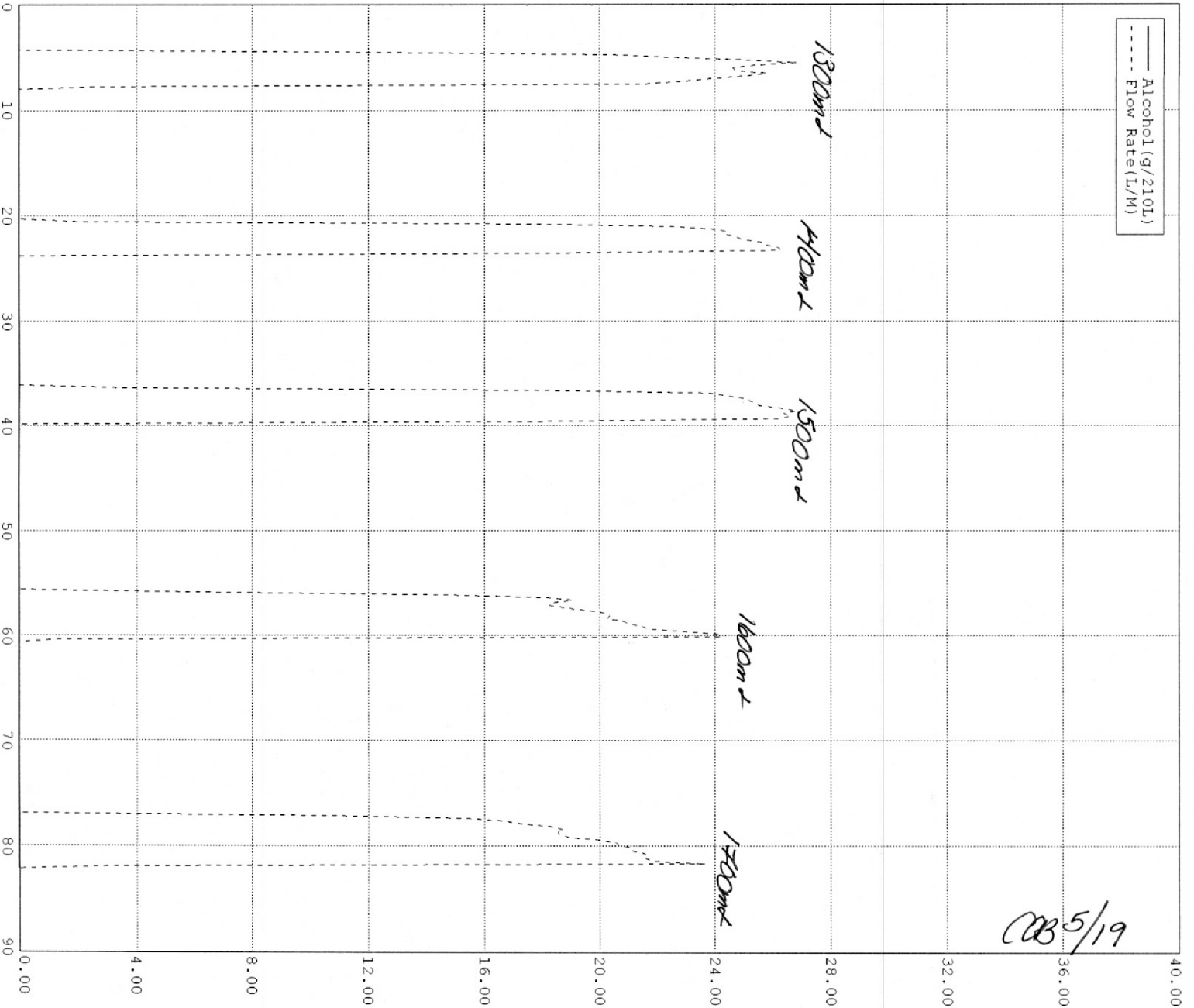
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.14: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	06:46
BLANK TEST	0.000	06:46
INTERNAL STANDARD	VERIFIED	06:46
EXTERNAL STANDARD	0.079	06:46
BLANK TEST	0.000	06:47
SUBJECT SAMPLE	0.000	06:49
BLANK TEST	0.000	06:49
EXTERNAL STANDARD	0.079	06:50
BLANK TEST	0.000	06:51

CRB



LINEARITY CHECK

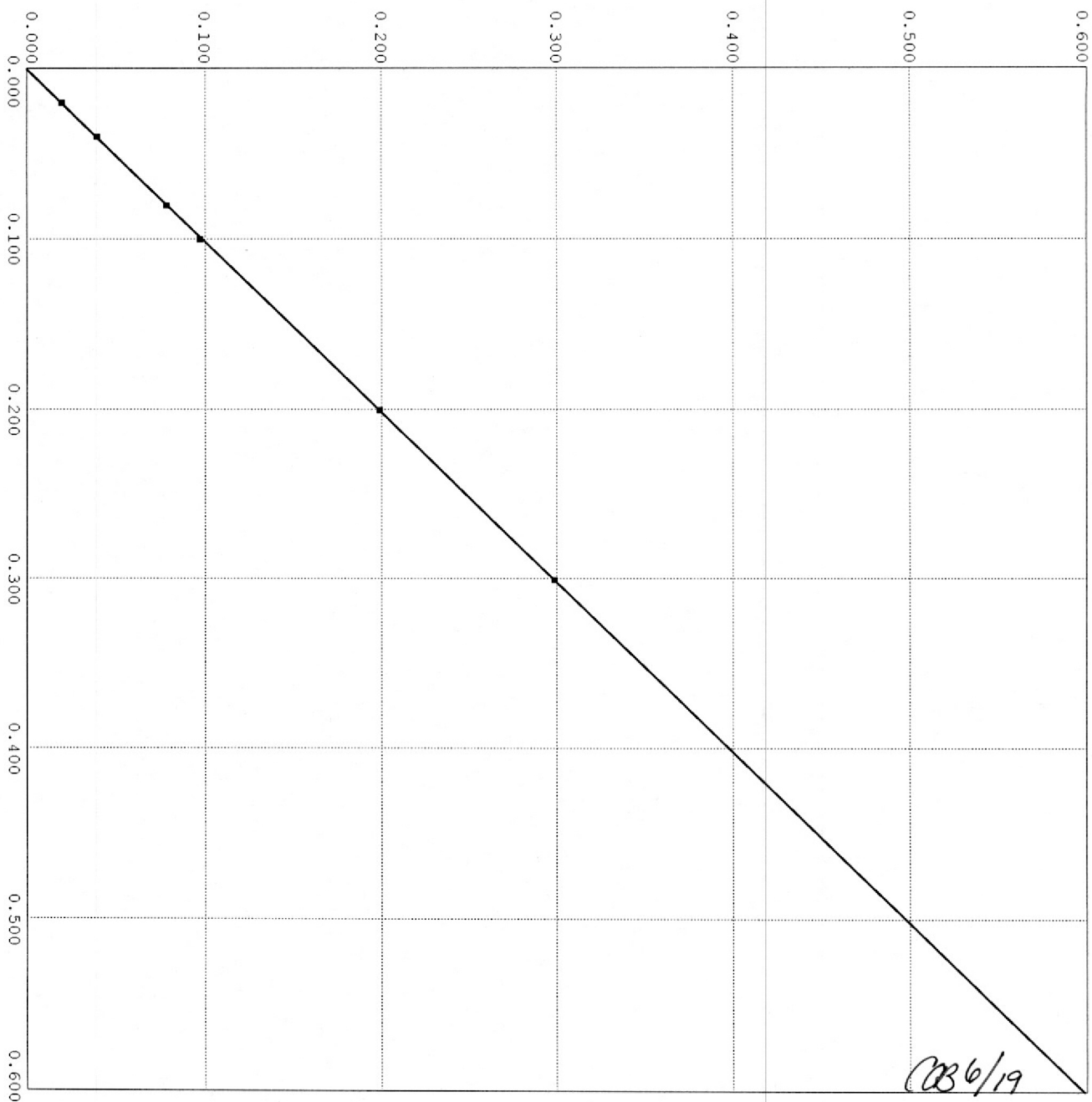
 Alaska Department of Public Safety
 DATAMASTER dmt: 100374

Date: 07/25/2012
 Time: 07:10:49

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0201	0.0001
0.040	0.0402	0.0001
0.080	0.0794	0.0002
0.100	0.0982	0.0003
0.200	0.1997	0.0004
0.300	0.2994	0.0002

SLOPE = 0.998498
 R^2 = 0.999959



CB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100374

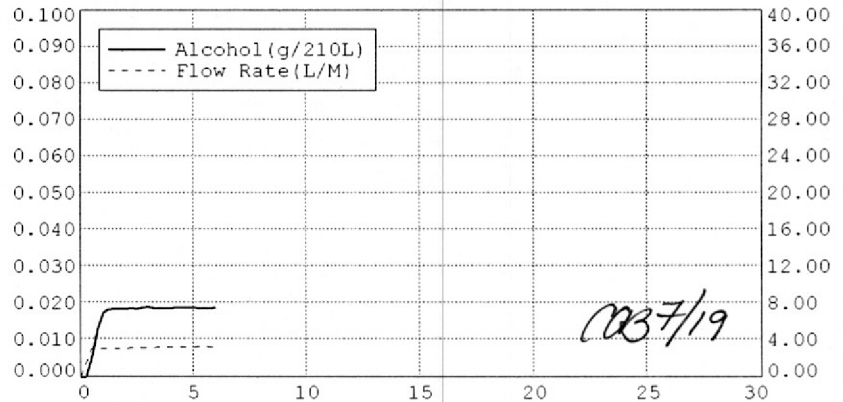
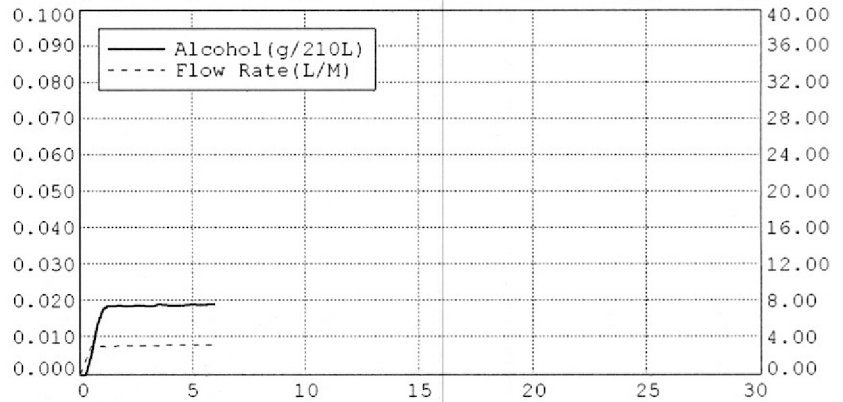
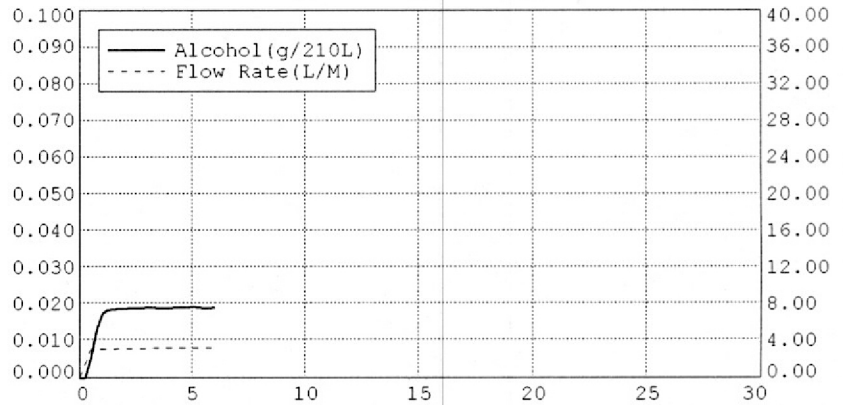
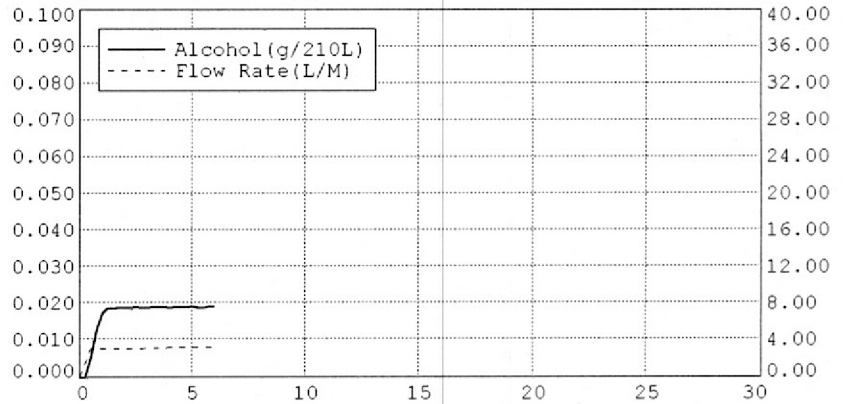
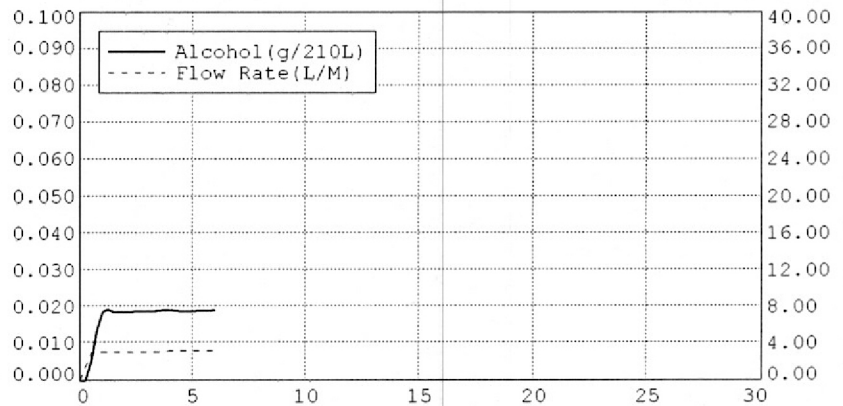
Date: 07/25/2012
Time: 07:10:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 30.15: 0.020
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:19
INTERNAL STANDARD	VERIFIED	07:19
EXTERNAL STANDARD	0.020	07:19
BLANK TEST	0.000	07:20
EXTERNAL STANDARD	0.020	07:20
BLANK TEST	0.000	07:21
EXTERNAL STANDARD	0.020	07:21
BLANK TEST	0.000	07:22
EXTERNAL STANDARD	0.020	07:22
BLANK TEST	0.000	07:23
EXTERNAL STANDARD	0.020	07:23
BLANK TEST	0.000	07:24

Average = 0.0201
Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100374

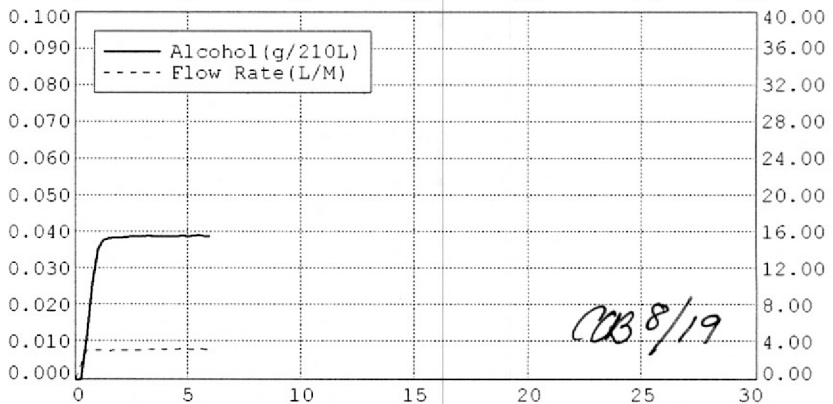
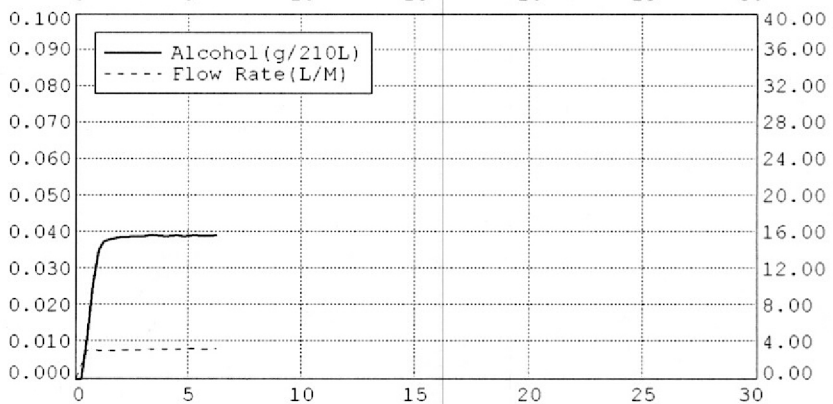
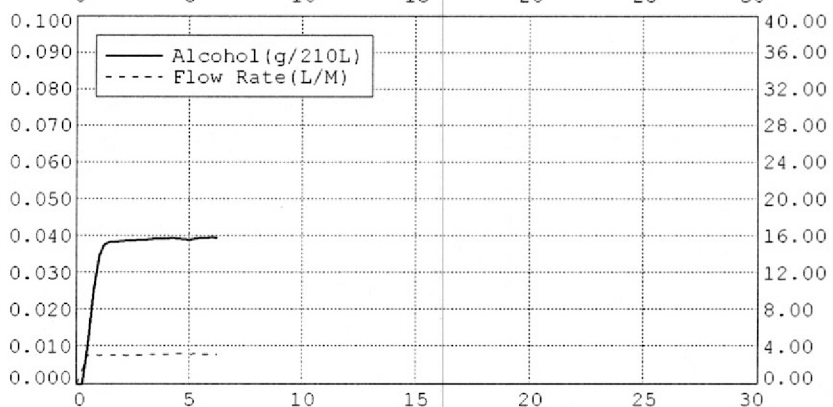
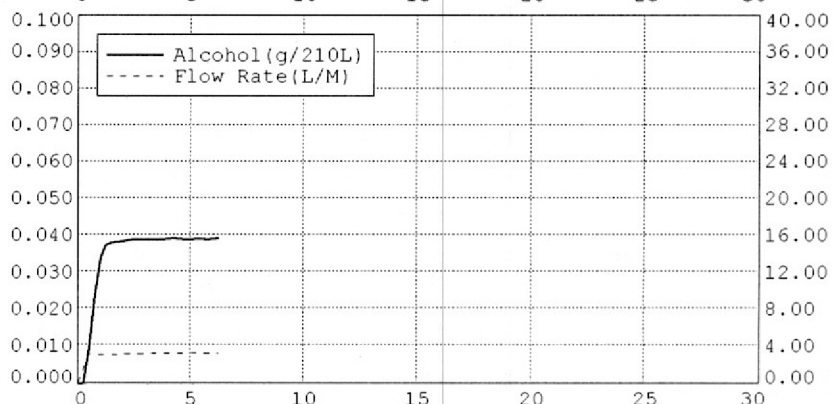
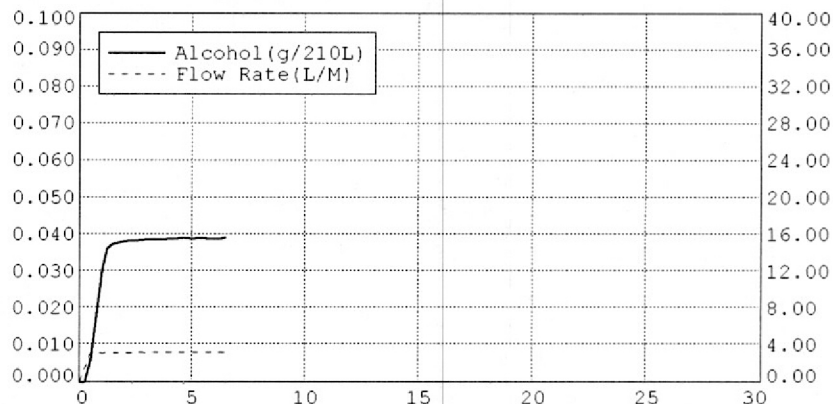
Date: 07/25/2012
Time: 07:26:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 30.15: 0.040
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:28
INTERNAL STANDARD	VERIFIED	07:28
EXTERNAL STANDARD	0.040	07:28
BLANK TEST	0.000	07:29
EXTERNAL STANDARD	0.040	07:29
BLANK TEST	0.000	07:30
EXTERNAL STANDARD	0.040	07:30
BLANK TEST	0.000	07:31
EXTERNAL STANDARD	0.040	07:31
BLANK TEST	0.000	07:32
EXTERNAL STANDARD	0.040	07:32
BLANK TEST	0.000	07:33

Average = 0.0402
Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100374

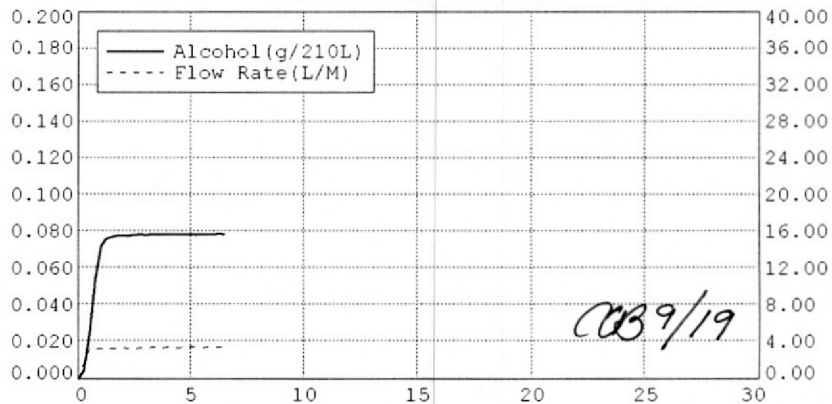
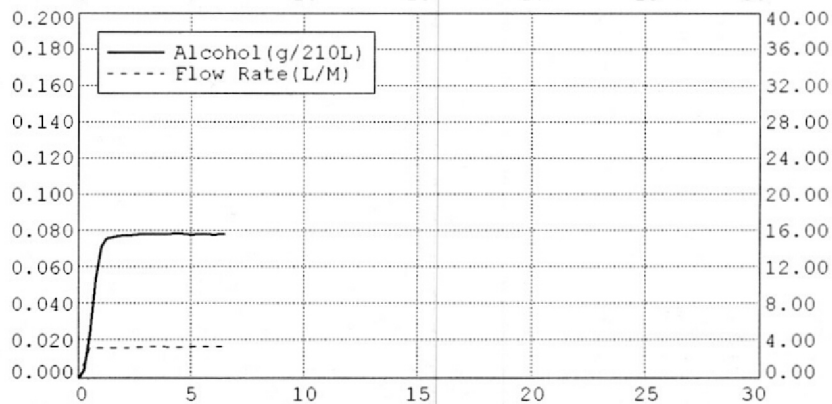
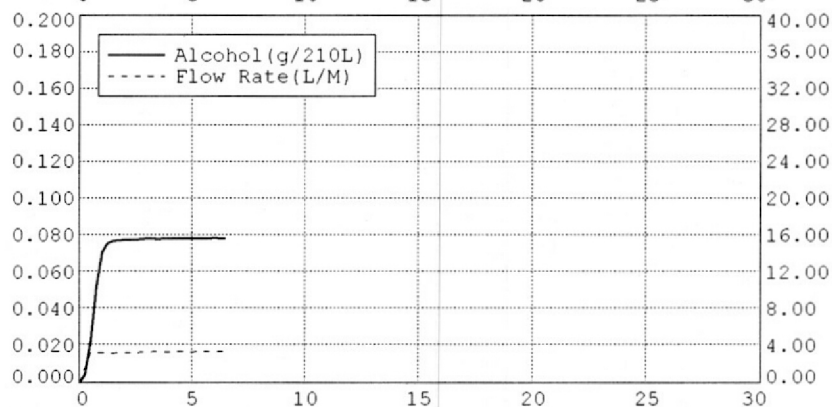
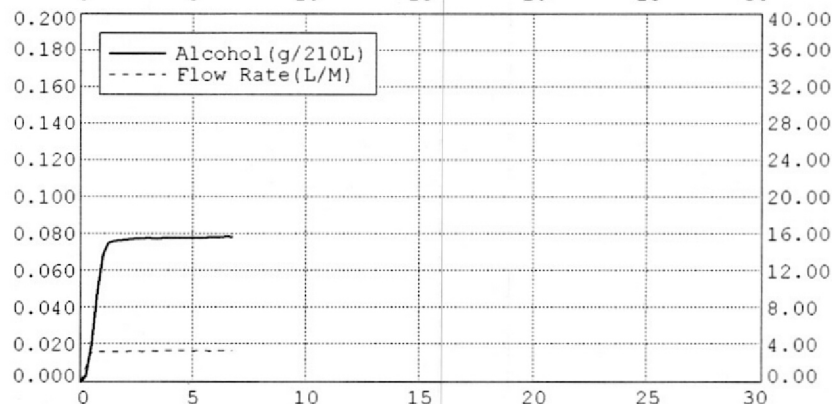
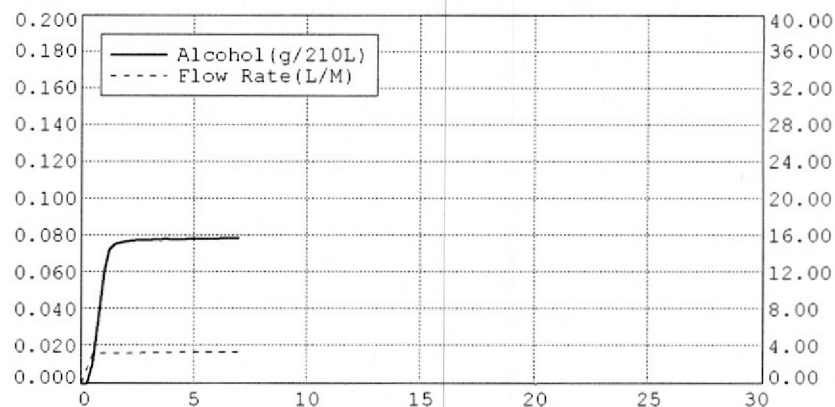
Date: 07/25/2012
Time: 07:39:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.14: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	07:42
INTERNAL STANDARD	VERIFIED	07:42
EXTERNAL STANDARD	0.079	07:42
BLANK TEST	0.000	07:43
EXTERNAL STANDARD	0.079	07:43
BLANK TEST	0.000	07:44
EXTERNAL STANDARD	0.079	07:44
BLANK TEST	0.000	07:45
EXTERNAL STANDARD	0.079	07:45
BLANK TEST	0.000	07:46
EXTERNAL STANDARD	0.079	07:47
BLANK TEST	0.000	07:47

Average = 0.0794
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100374

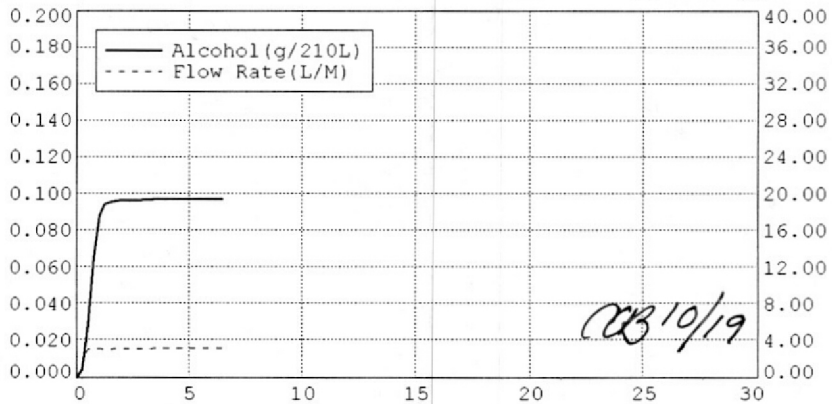
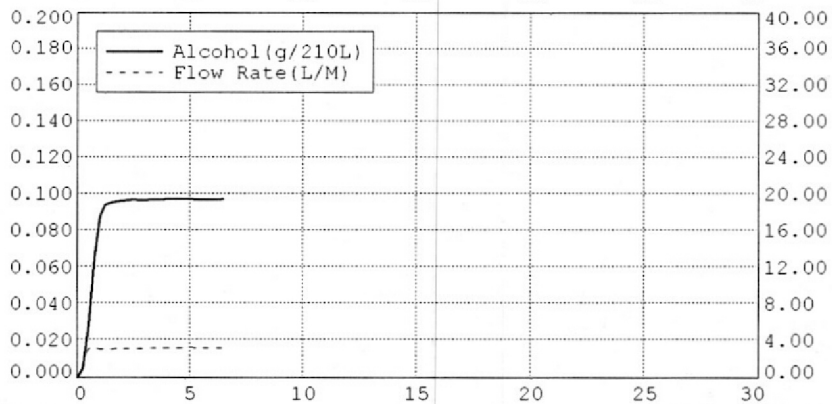
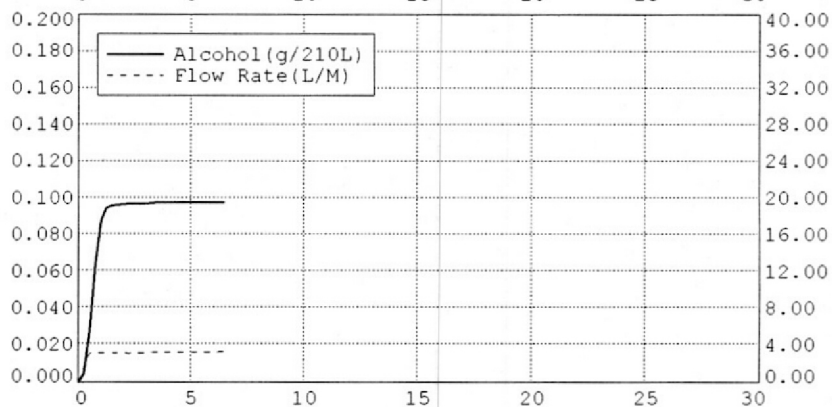
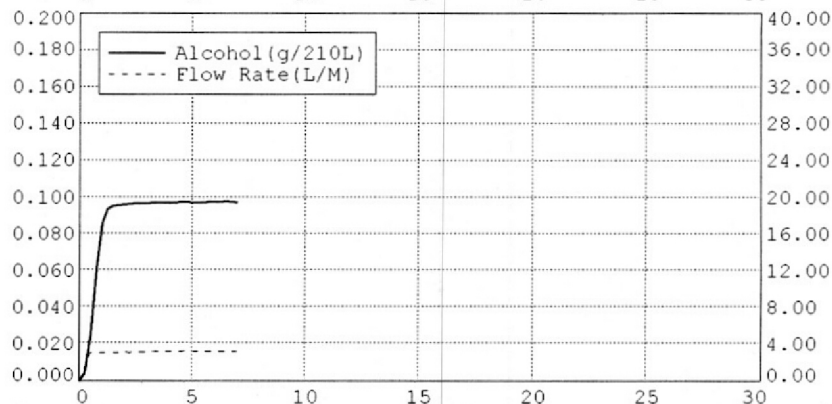
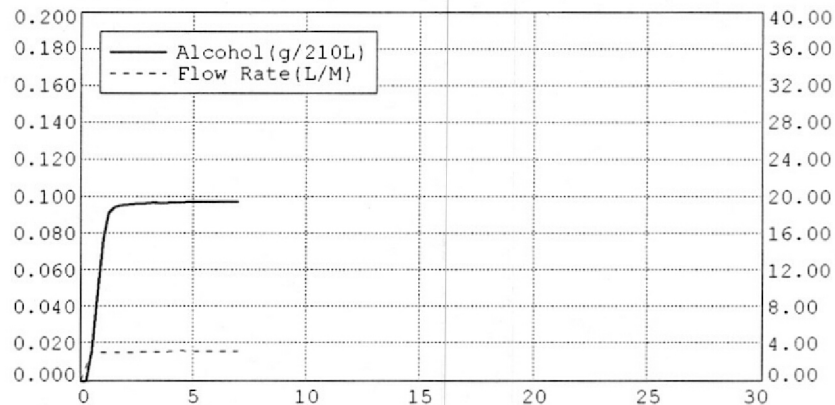
Date: 07/25/2012
Time: 07:52:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 30.14: 0.100
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:54
INTERNAL STANDARD	VERIFIED	07:54
EXTERNAL STANDARD	0.098	07:55
BLANK TEST	0.000	07:56
EXTERNAL STANDARD	0.098	07:56
BLANK TEST	0.000	07:57
EXTERNAL STANDARD	0.098	07:57
BLANK TEST	0.000	07:58
EXTERNAL STANDARD	0.098	07:58
BLANK TEST	0.000	07:59
EXTERNAL STANDARD	0.097	07:59
BLANK TEST	0.000	08:00

Average = 0.0982
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100374

Date: 07/25/2012
Time: 08:04:05

EXTERNAL STANDARD INFORMATION

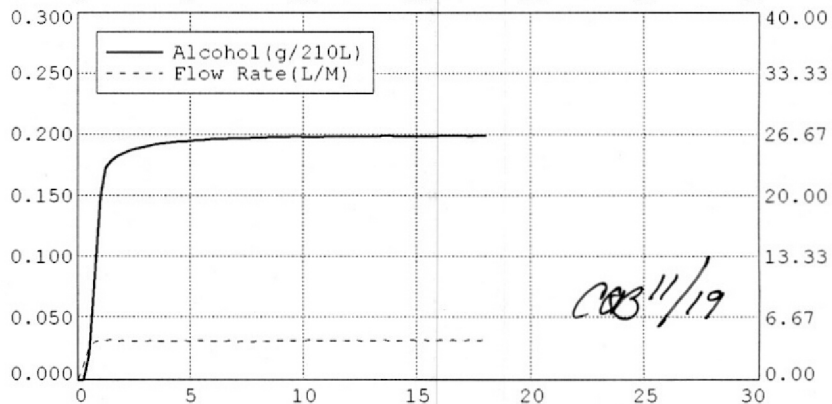
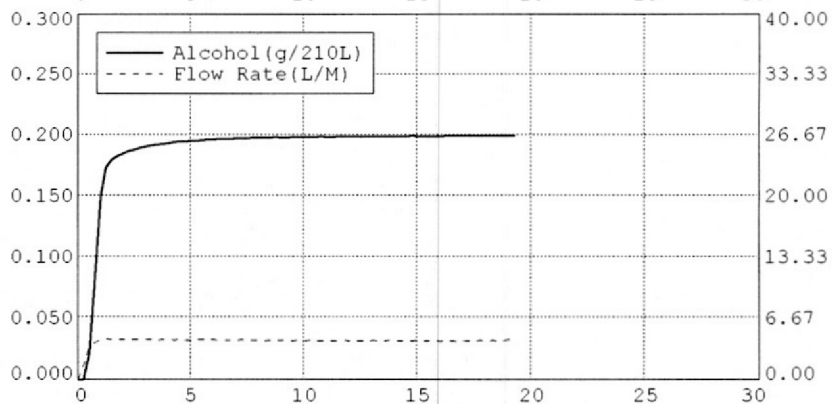
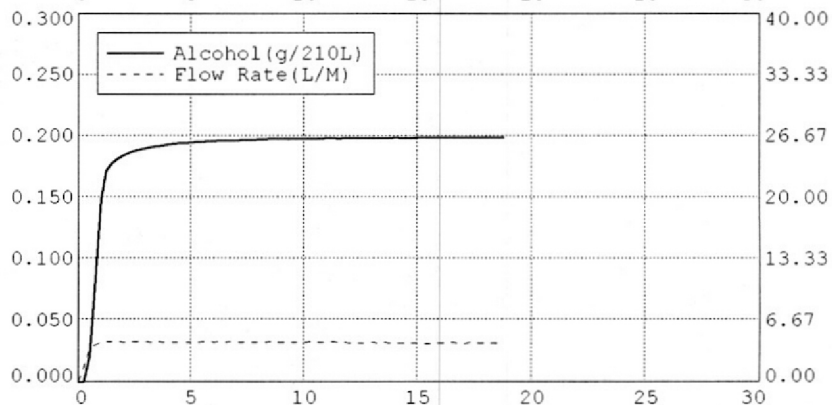
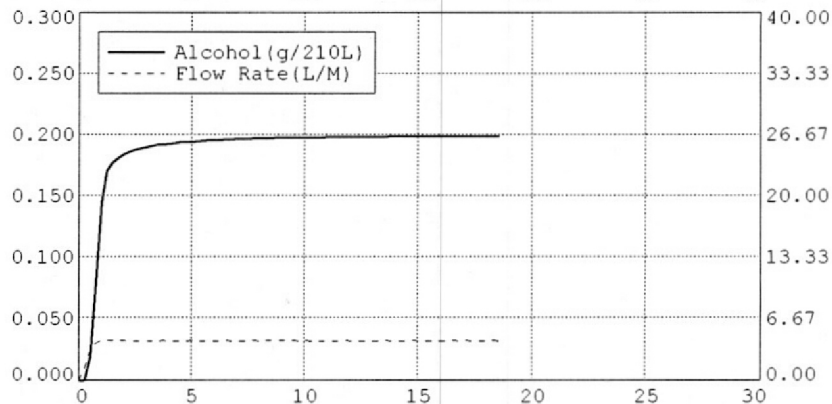
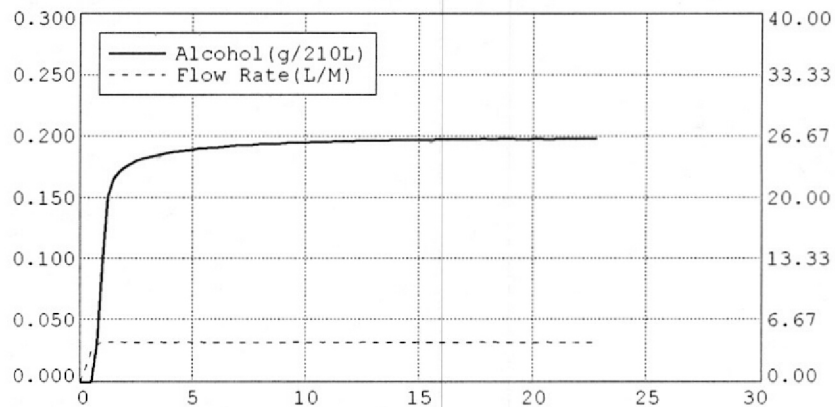
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	08:07
INTERNAL STANDARD	VERIFIED	08:07
EXTERNAL STANDARD	0.199	08:08
BLANK TEST	0.000	08:09
EXTERNAL STANDARD	0.199	08:09
BLANK TEST	0.000	08:10
EXTERNAL STANDARD	0.199	08:11
BLANK TEST	0.000	08:12
EXTERNAL STANDARD	0.200	08:12
BLANK TEST	0.000	08:13
EXTERNAL STANDARD	0.199	08:13
BLANK TEST	0.000	08:14

Average = 0.1997
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100374

Date: 07/25/2012
Time: 08:16:36

EXTERNAL STANDARD INFORMATION

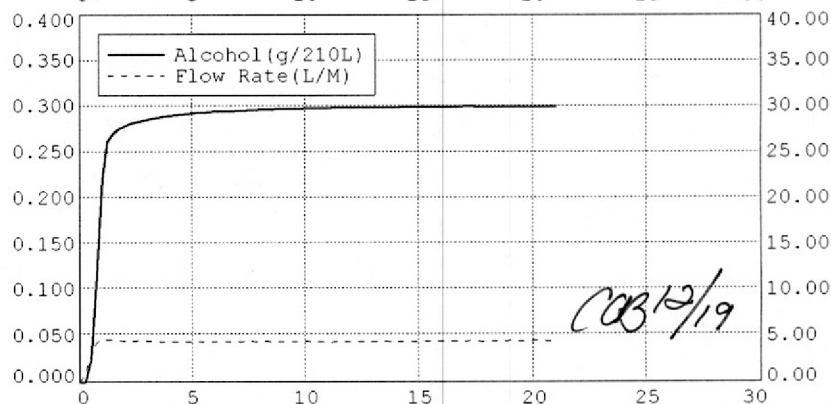
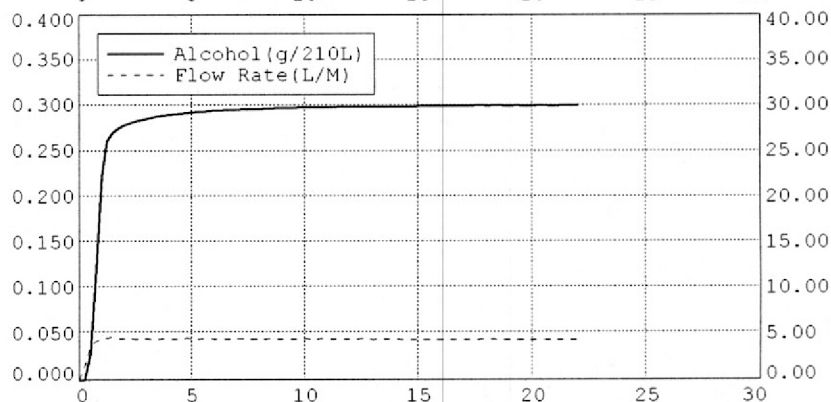
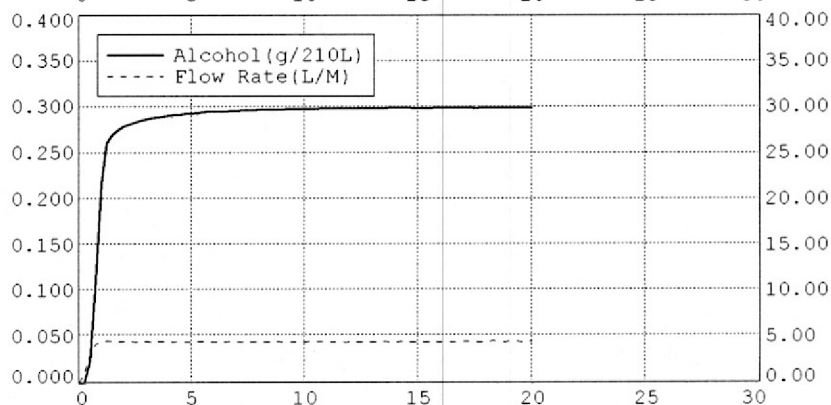
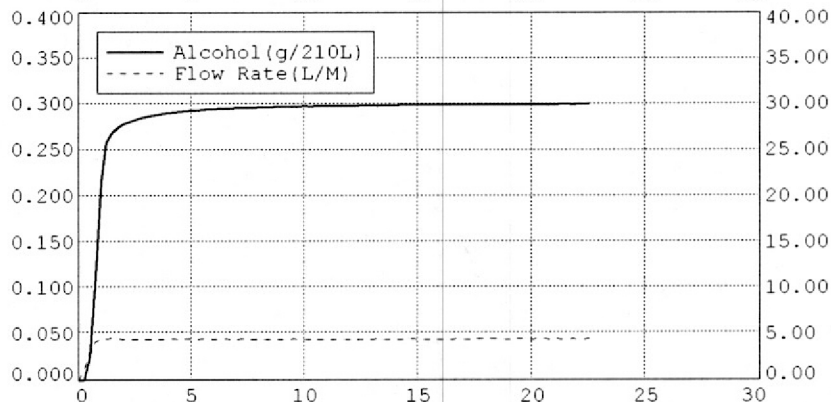
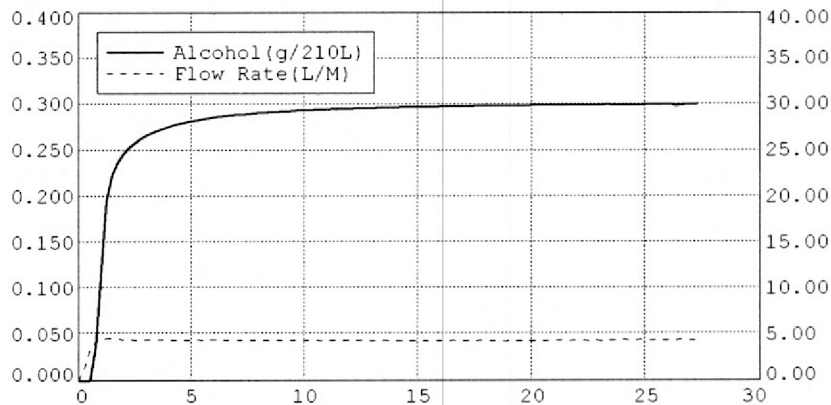
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	08:19
INTERNAL STANDARD	VERIFIED	08:19
EXTERNAL STANDARD	0.299	08:19
BLANK TEST	0.000	08:20
EXTERNAL STANDARD	0.299	08:21
BLANK TEST	0.000	08:22
EXTERNAL STANDARD	0.299	08:22
BLANK TEST	0.000	08:23
EXTERNAL STANDARD	0.299	08:24
BLANK TEST	0.000	08:25
EXTERNAL STANDARD	0.299	08:25
BLANK TEST	0.000	08:26

Average = 0.2994
Std Dev = 0.0002

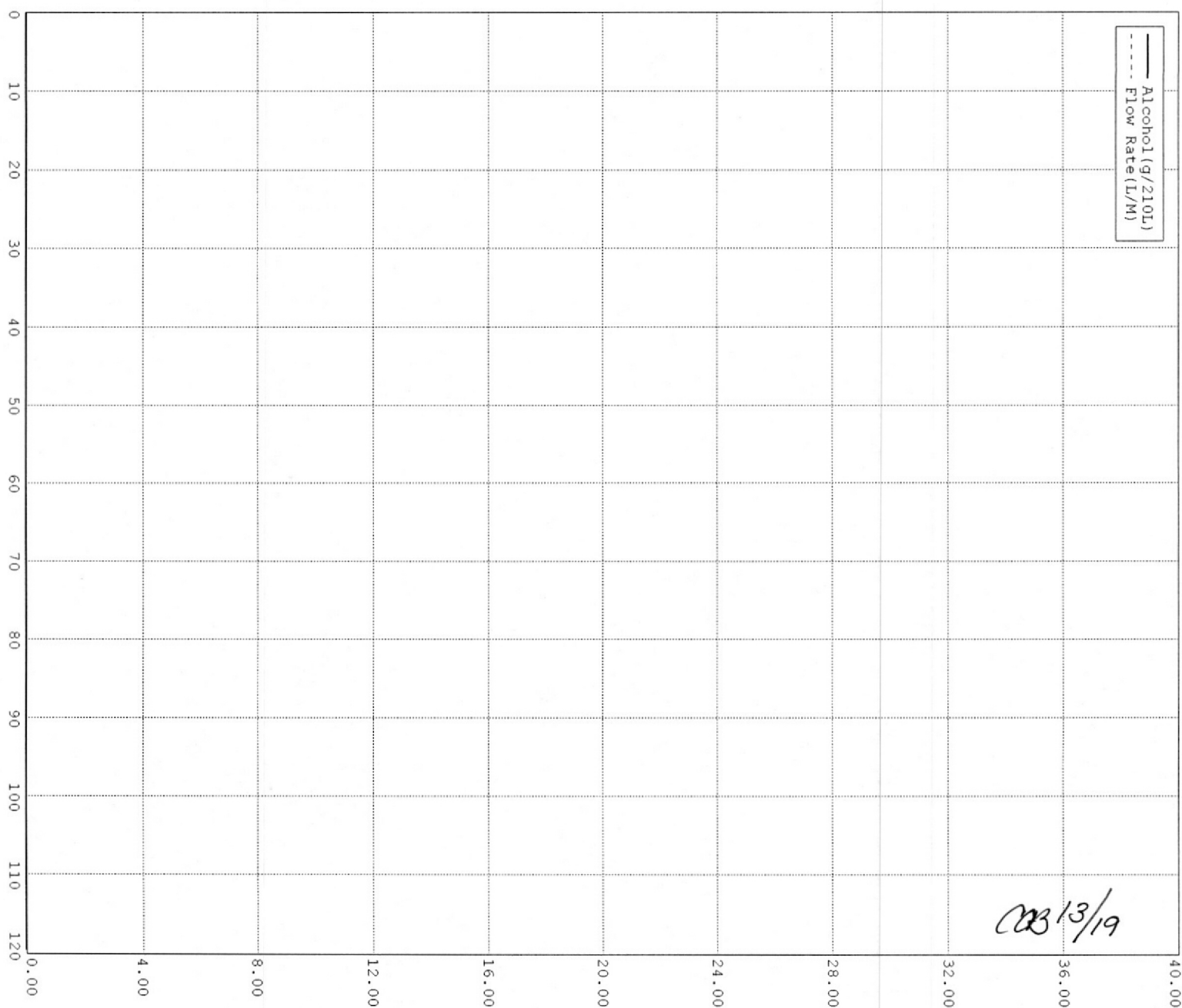


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100374Date: 07/25/2012
Time: 08:33:42SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETEOPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.14: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:54
BLANK TEST	0.000	08:54
INTERNAL STANDARD	VERIFIED	08:55
EXTERNAL STANDARD	0.082	08:55
BLANK TEST	0.000	08:56
SUBJECT SAMPLE	INCOMPLETE	08:58

OB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100374

Date: 07/25/2012
Time: 09:01:48

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

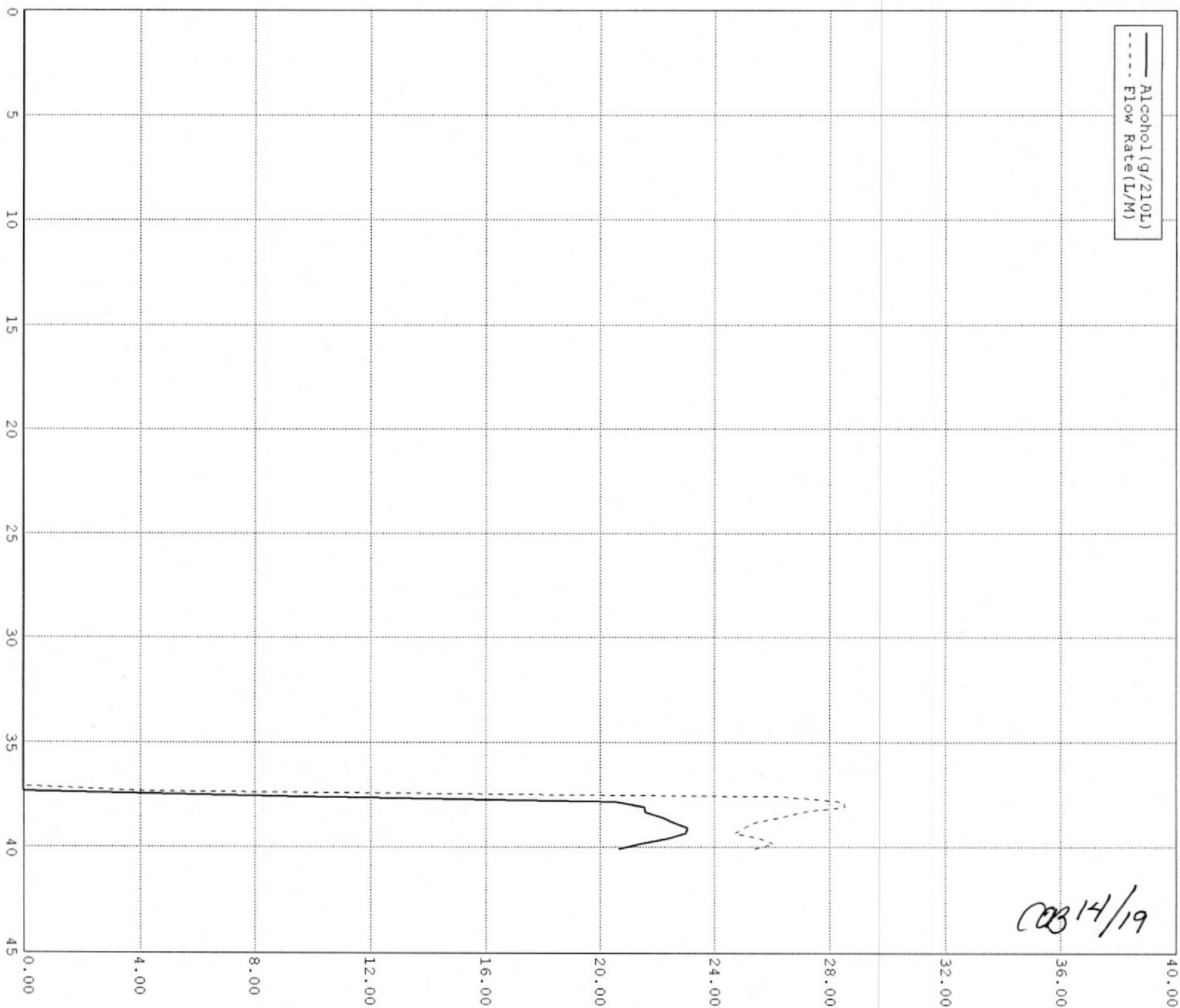
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.15: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:03
BLANK TEST	0.000	09:03
INTERNAL STANDARD	VERIFIED	09:04
EXTERNAL STANDARD	0.079	09:04
BLANK TEST	0.000	09:05
SUBJECT SAMPLE	INVALID	09:06

CR



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100374

Date: 07/25/2012
 Time: 09:30:02

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

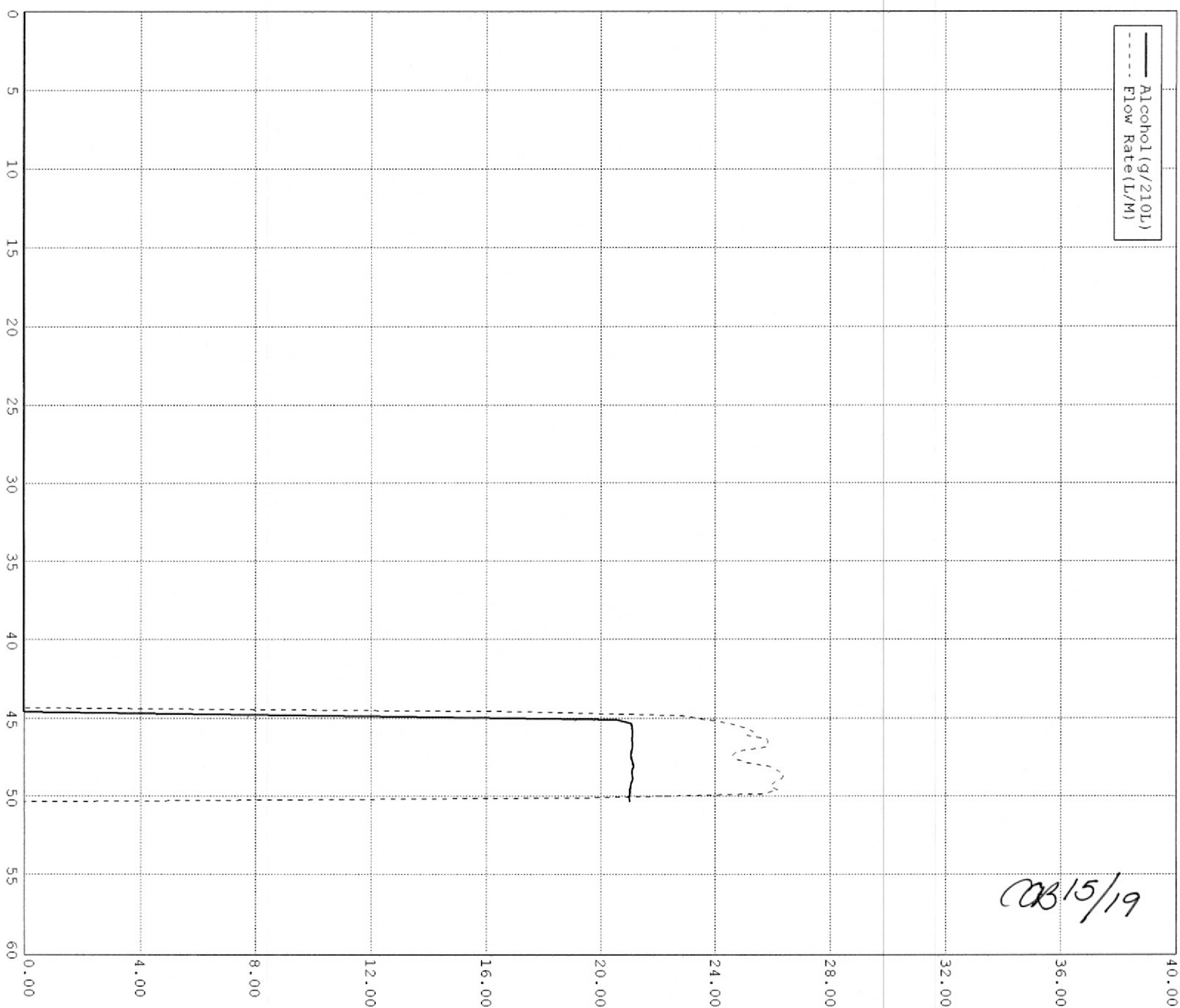
OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.14: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:31
BLANK TEST	0.000	09:31
INTERNAL STANDARD	VERIFIED	09:31
XG = 0.030 (0.19%)		
EXTERNAL STANDARD	0.079	09:31
X[1] = 0.0794 (-0.0013)	(0.0018)	
BLANK TEST	0.000	09:32
SUBJECT SAMPLE	INTERFERENCE	09:33
X[1] = 0.1047 (-0.0144)	(0.0003)	

CB



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100374

Date: 07/25/2012
 Time: 09:20:48

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT - IPA

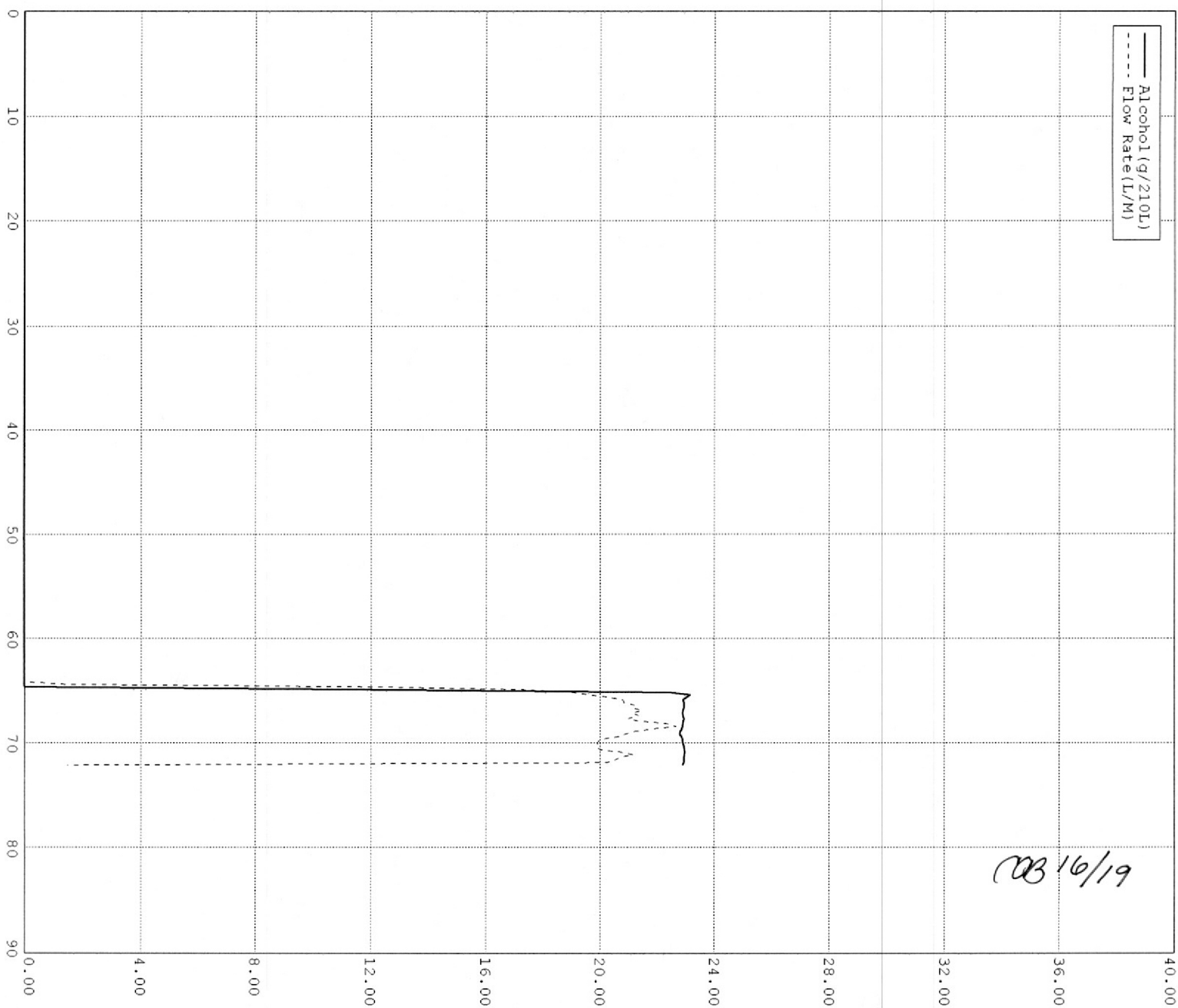
OPERATOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.14: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:22
BLANK TEST	0.000	09:22
INTERNAL STANDARD	VERIFIED	09:22
Xq = 0.090 (0.10%)		
EXTERNAL STANDARD	0.079	09:22
X[1] = 0.0794 (-0.0018) (0.0015)		
BLANK TEST	0.000	09:23
SUBJECT SAMPLE	INTERFERENCE	09:24
X[1] = 0.1142 (-0.0303) (0.0007)		

CB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100374

Date: 07/25/2012
 Time: 09:13:28

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT - NEG

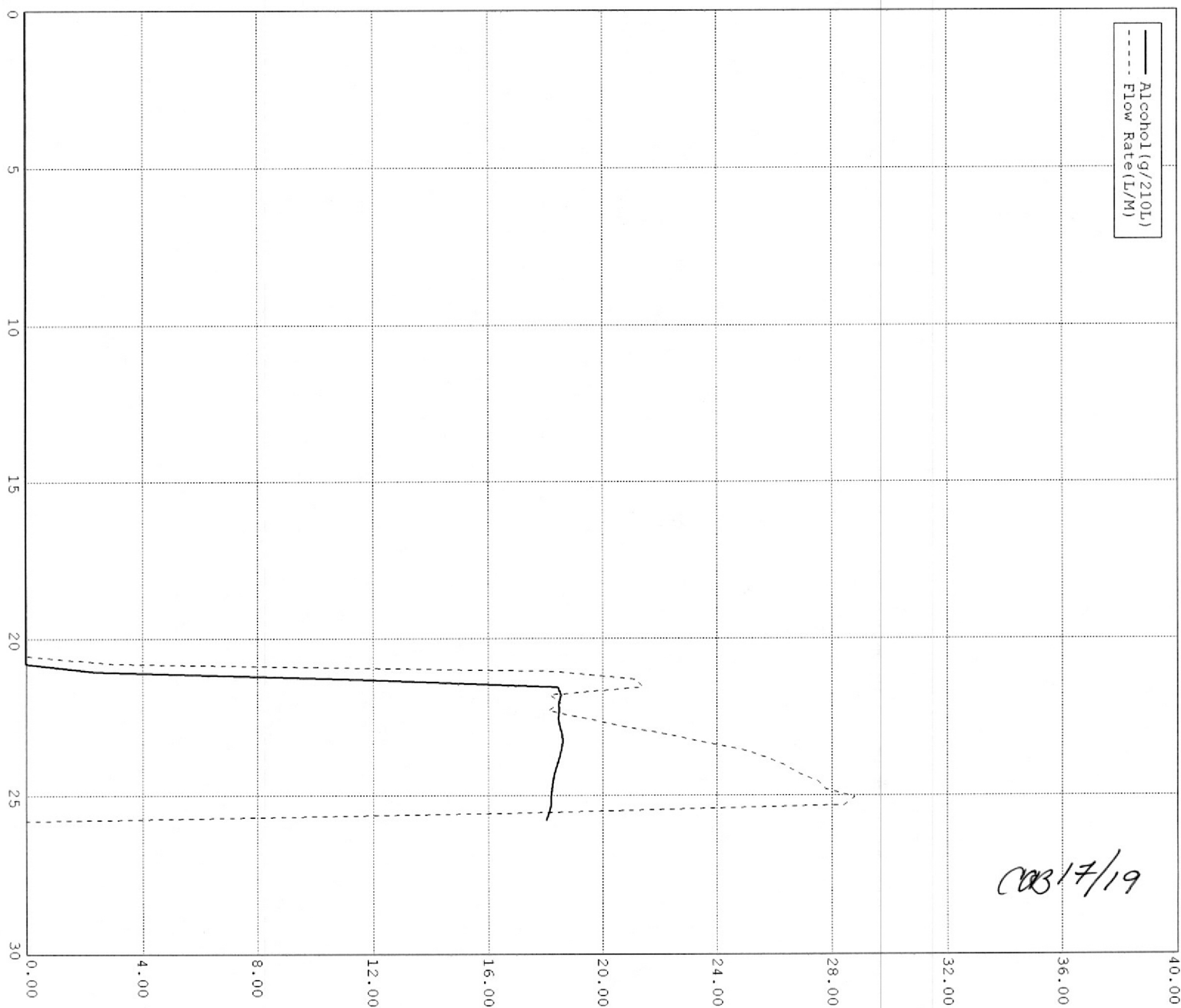
OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.14: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:14
BLANK TEST	0.000	09:14
INTERNAL STANDARD	VERIFIED	09:15
Xq = 0.090 (0.19%)		
EXTERNAL STANDARD	0.079	09:15
X[1] = 0.0796 (-0.0018)	(0.0023)	
BLANK TEST	0.000	09:16
SUBJECT SAMPLE (Vol=1.83L)	0.090	09:16
X[1] = 0.0904 (0.0000)	(0.0006)	
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.079	09:17
X[1] = 0.0792 (-0.0018)	(0.0012)	
BLANK TEST	0.000	09:18

CS

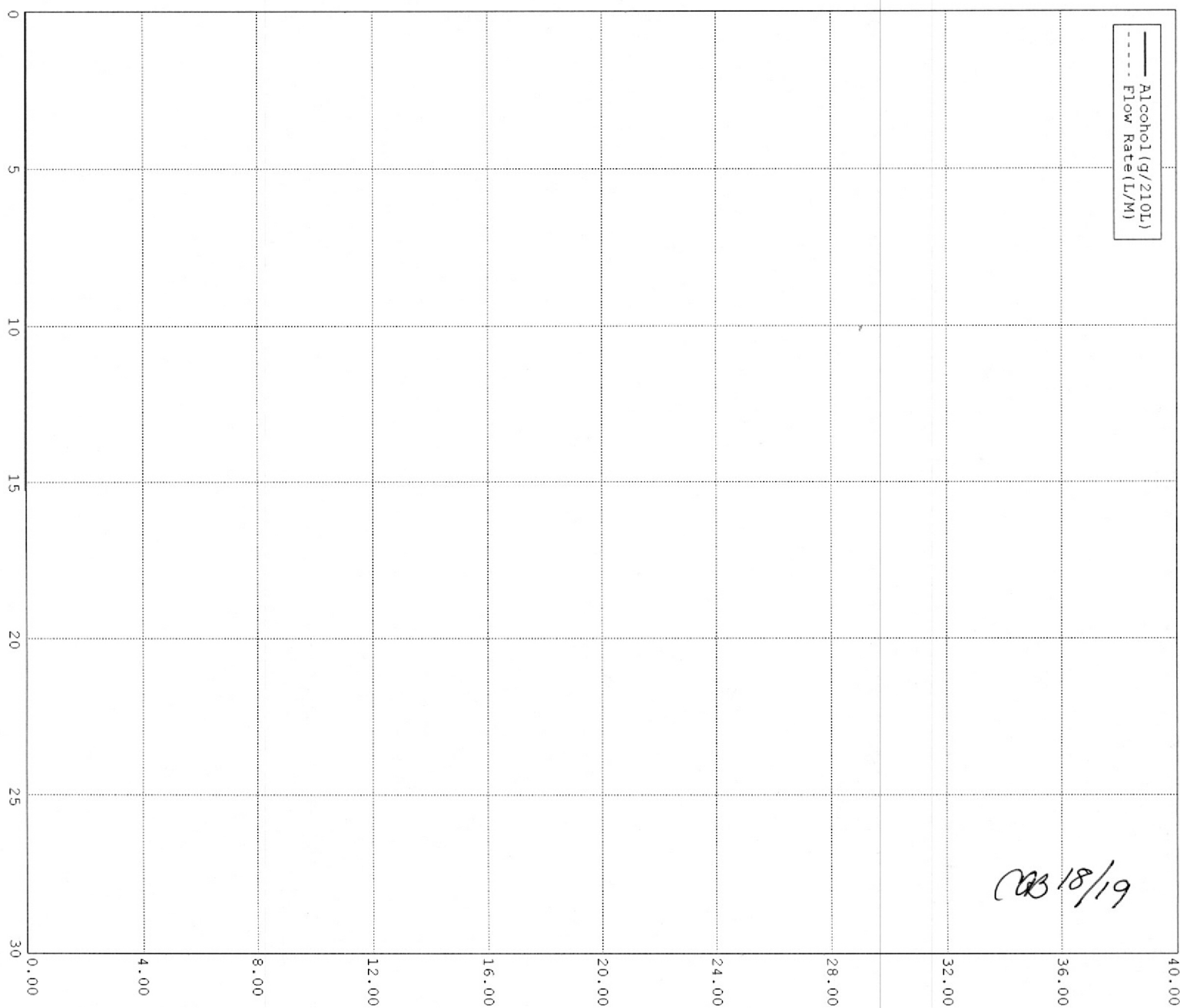


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100374Date: 07/25/2012
Time: 09:42:58SUBJECT NAME:
TEST TEST
LICENSE #: RFIOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.14: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:02
BLANK TEST	0.000	10:02
INTERNAL STANDARD	VERIFIED	10:02
EXTERNAL STANDARD	0.079	10:03
BLANK TEST	0.000	10:04

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100374Date: 07/25/2012
Time: 10:18:13SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKINGOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.14: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:19
BLANK TEST	0.000	10:19
INTERNAL STANDARD	VERIFIED	10:19
EXTERNAL STANDARD	0.079	10:19
BLANK TEST	0.000	10:20
SUBJECT SAMPLE	0.000	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.080	10:22
BLANK TEST	0.000	10:22

CB

