

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012

Effective: 04/04/2012

Version: DMCEF2012 R1

Status: Active

Instrument S/N 100345 Analyst Colleen O'Bryant Start Date 07/23/2012Diagnostic 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 I/mo Lot 07611020A5 Exp 03/01/2013ii. 0.040g/210L Mnf I/mo Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf I/mo Lot 02511080A2 Exp 02/01/2013iv. 0.100g/210L Mnf I/mo 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 09/20/2011

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

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100345

Date: 07/23/2012
Time: 09:28:11

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 5.320 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

037/19

Technician Screen

DATAMASTER dmt: 100345

Date: 07/23/2012

Time: 9:40 AM

Temperatures (°C)

Sample Cell: 48.4°C

Breath Tube: 47.0°C

Current Barometer 30.0 in

Volume (Ltr) 1.52

Settings

Lamp: 1.87 V

Bias: 81 V

Cooler: 1.60 V

Chopper: 532 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.077 V

08/3/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100345

Date: 06/05/2012
Time: 08:26:41

Ca = 0.1010
CAL = 0.985890 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0046 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0970 0.0500 <= Xq < 0.2000
a21 = 1.157983 1.050 <= a21 < 1.300
a31 = 0.513188 0.300 <= a31 < 0.800

0034/19

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100345

Date: 07/23/2012
 Time: 09:43:00

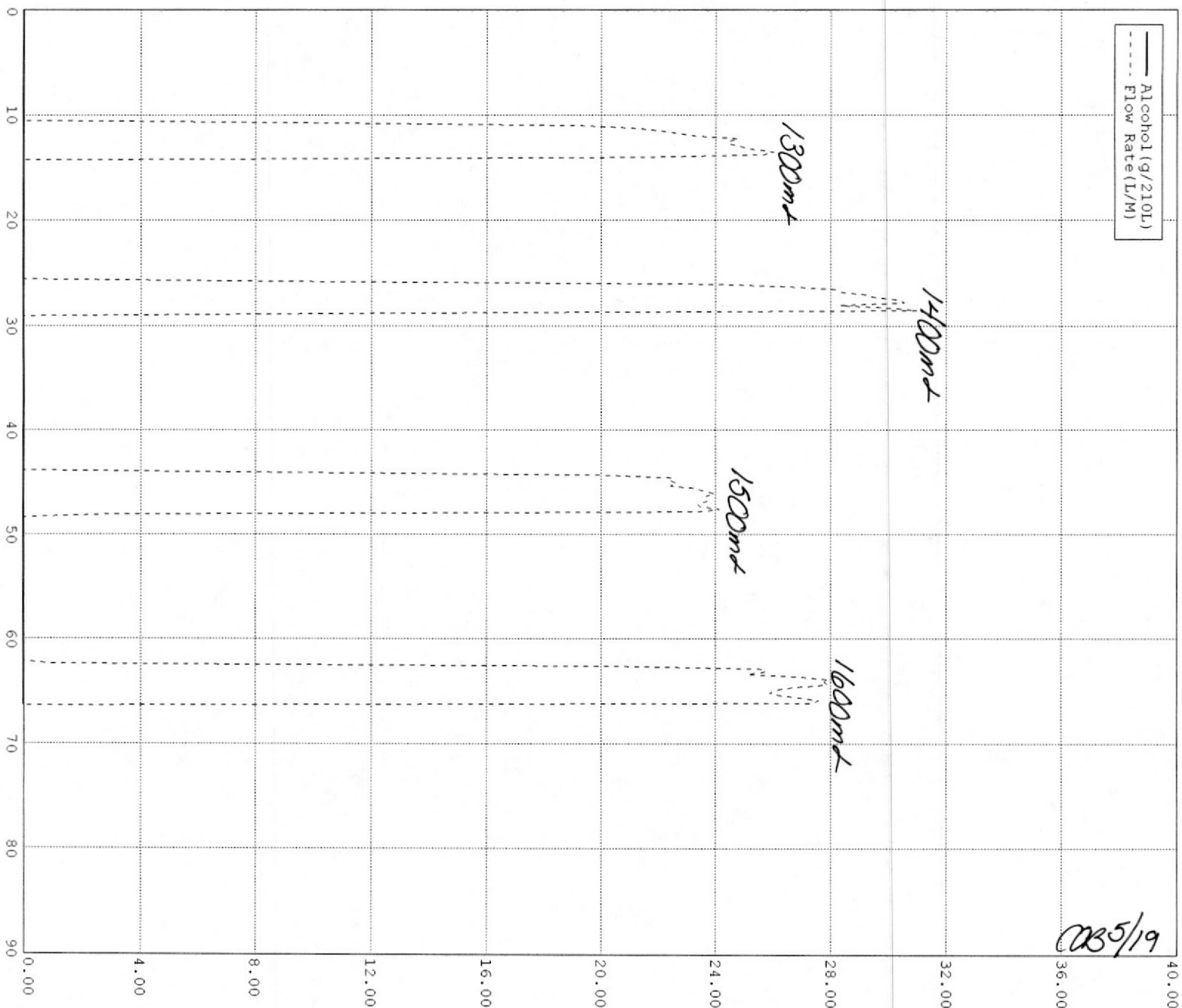
SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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 29.97: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:44
BLANK TEST	0.000	09:44
INTERNAL STANDARD	VERIFIED	09:45
EXTERNAL STANDARD	0.078	09:45
BLANK TEST	0.000	09:46
SUBJECT SAMPLE	0.000	09:47
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.078	09:48
BLANK TEST	0.000	09:49



LINEARITY CHECK

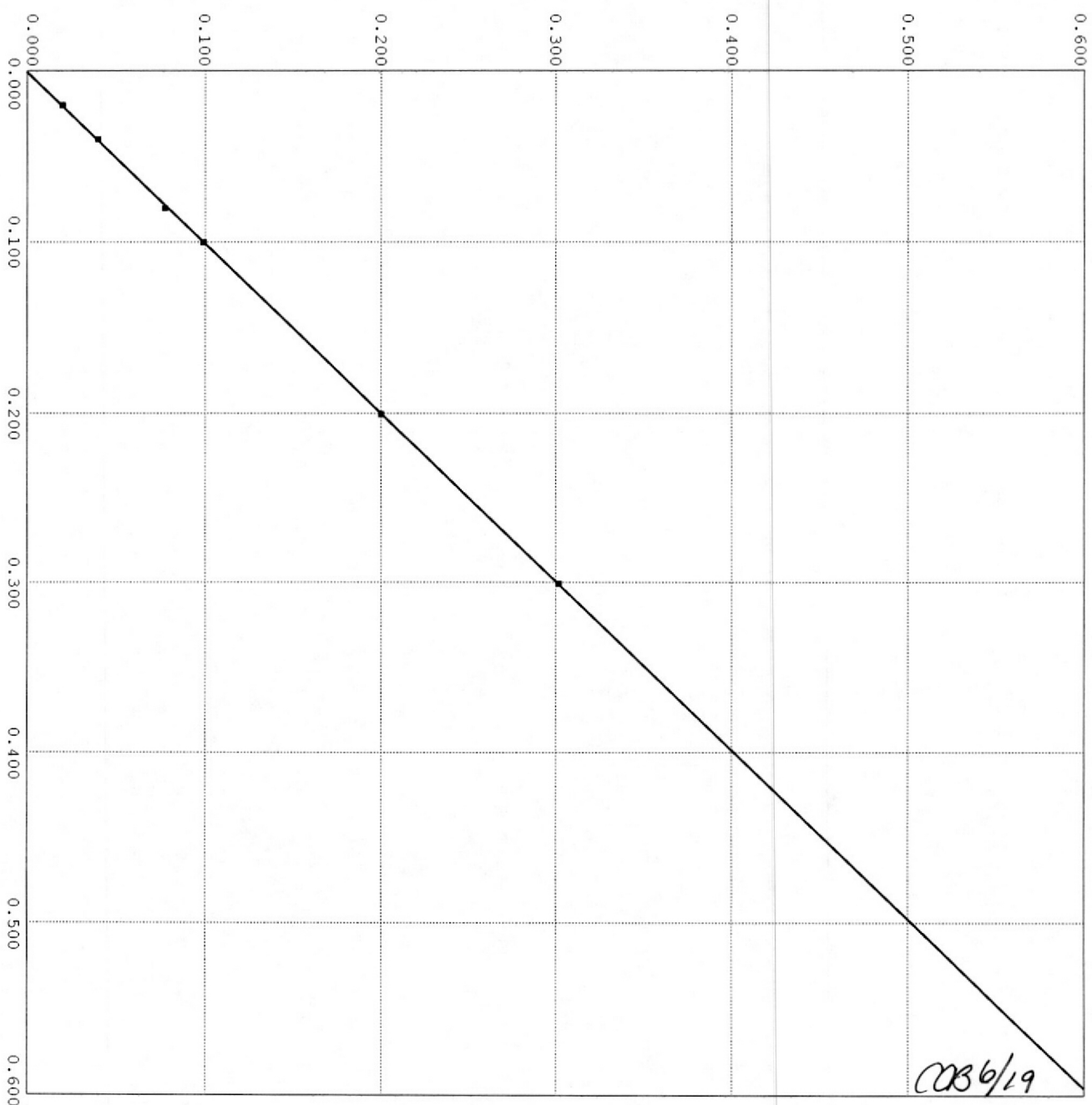
Alaska Department of Public Safety
DATAMASTER dmt: 100345

Date: 07/25/2012
Time: 07:04:48

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0205	0.0003
0.040	0.0405	0.0002
0.080	0.0783	0.0003
0.100	0.0999	0.0004
0.200	0.2009	0.0006
0.300	0.3024	0.0004

SLOPE = 1.008245
 R^2 = 0.999916



COB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100345

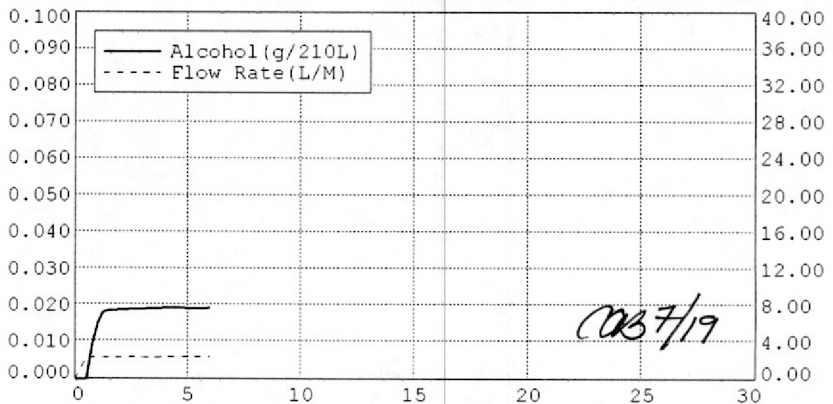
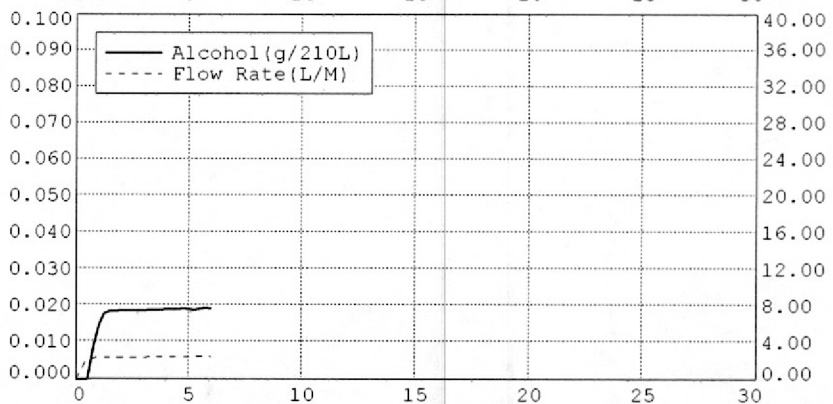
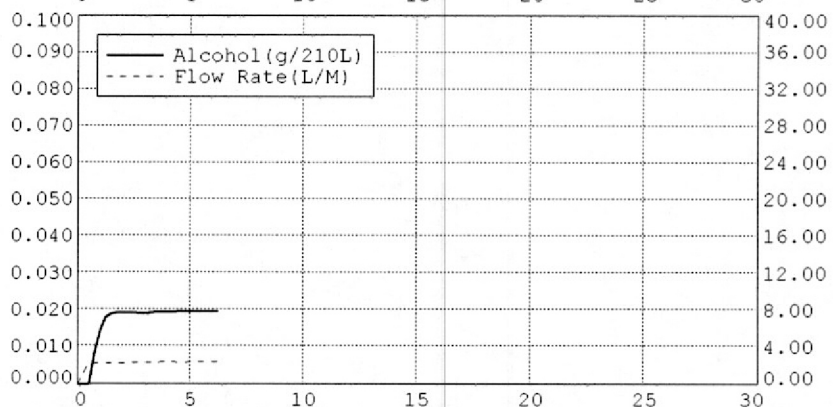
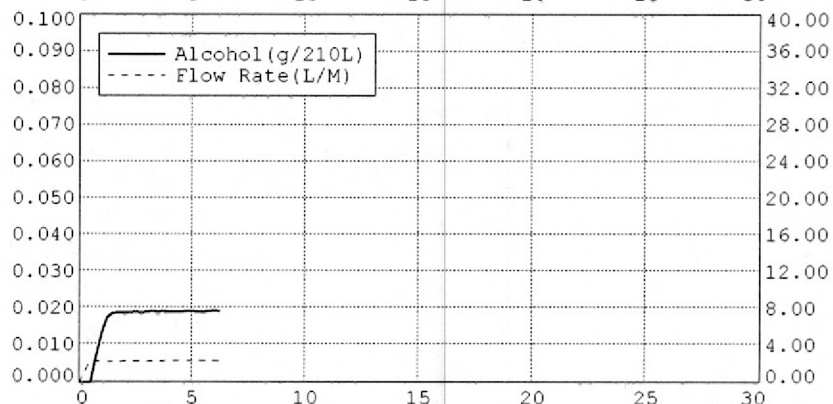
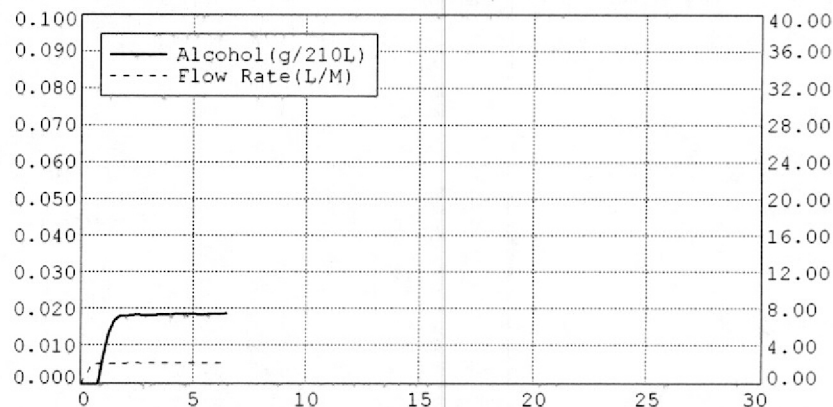
Date: 07/25/2012
Time: 07:04:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 30.09: 0.020
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:06
INTERNAL STANDARD	VERIFIED	07:06
EXTERNAL STANDARD	0.019	07:06
BLANK TEST	0.000	07:07
EXTERNAL STANDARD	0.020	07:07
BLANK TEST	0.000	07:08
EXTERNAL STANDARD	0.020	07:08
BLANK TEST	0.000	07:09
EXTERNAL STANDARD	0.020	07:09
BLANK TEST	0.000	07:10
EXTERNAL STANDARD	0.020	07:10
BLANK TEST	0.000	07:11

Average = 0.0205
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100345

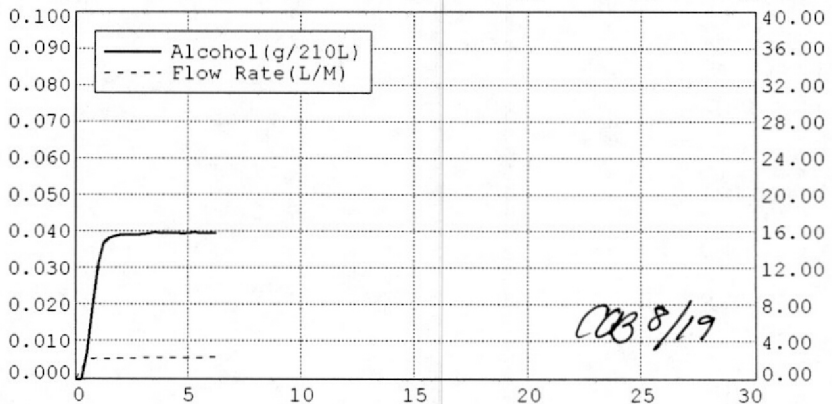
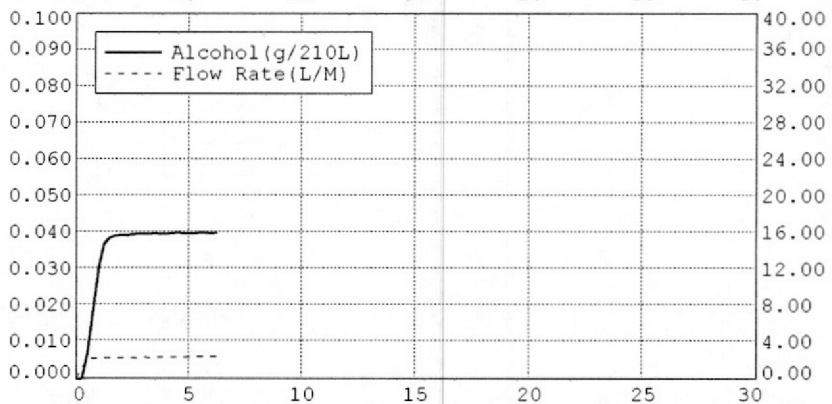
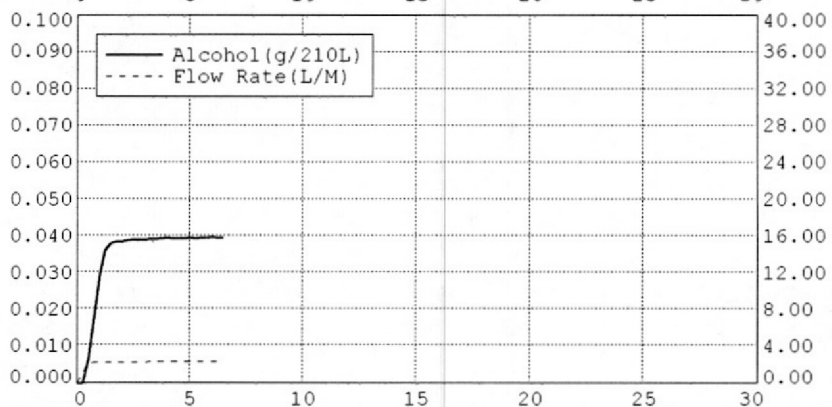
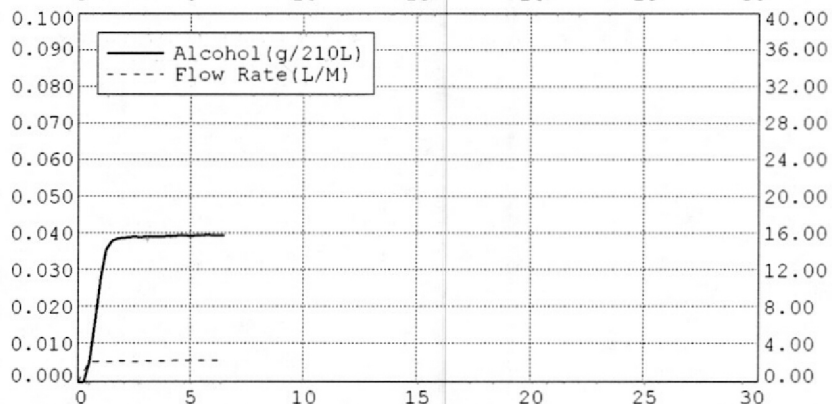
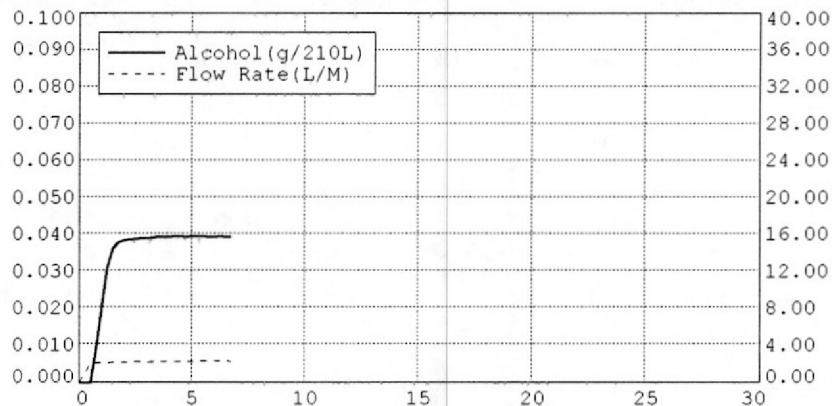
Date: 07/25/2012
Time: 07:12:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 30.09: 0.040
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:14
INTERNAL STANDARD	VERIFIED	07:14
EXTERNAL STANDARD	0.040	07:14
BLANK TEST	0.000	07:15
EXTERNAL STANDARD	0.040	07:15
BLANK TEST	0.000	07:16
EXTERNAL STANDARD	0.040	07:16
BLANK TEST	0.000	07:17
EXTERNAL STANDARD	0.040	07:17
BLANK TEST	0.000	07:18
EXTERNAL STANDARD	0.040	07:18
BLANK TEST	0.000	07:19

Average = 0.0405
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

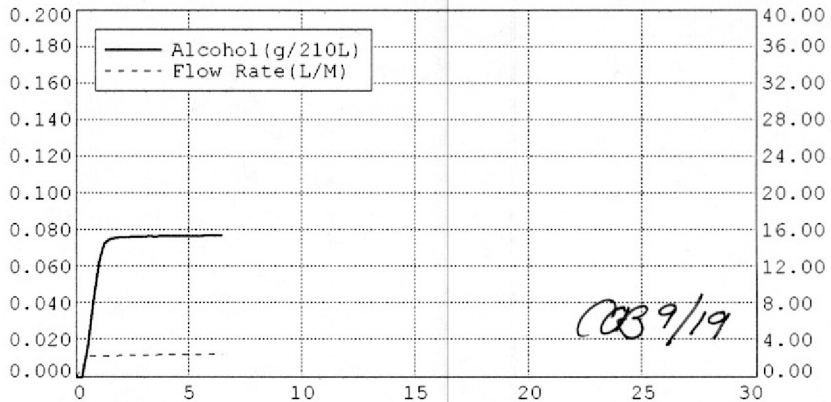
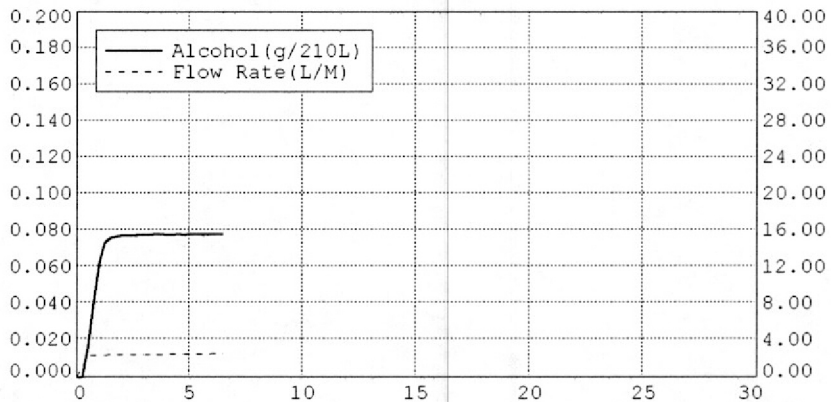
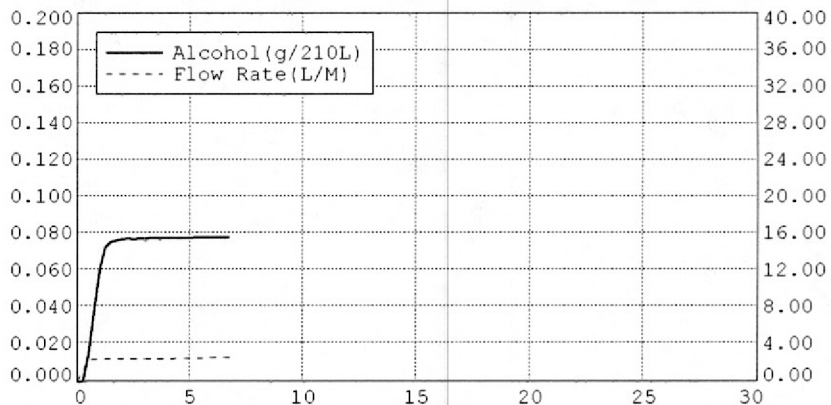
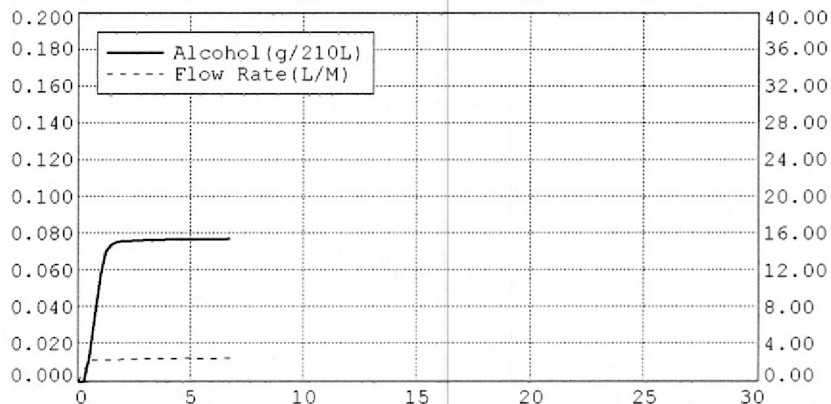
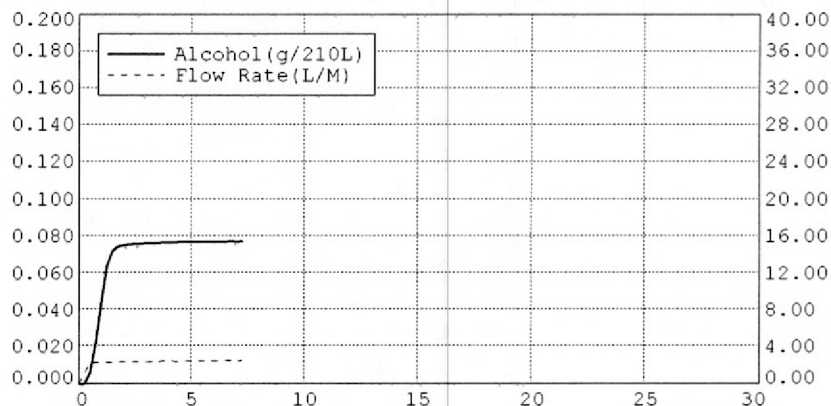
Alaska Department of Public Safety
DATAMASTER dmt: 100345

Date: 07/25/2012
Time: 07:20:50

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.09: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	07:22
INTERNAL STANDARD	VERIFIED	07:22
EXTERNAL STANDARD	0.078	07:23
BLANK TEST	0.000	07:24
EXTERNAL STANDARD	0.078	07:24
BLANK TEST	0.000	07:25
EXTERNAL STANDARD	0.078	07:25
BLANK TEST	0.000	07:26
EXTERNAL STANDARD	0.078	07:26
BLANK TEST	0.000	07:27
EXTERNAL STANDARD	0.078	07:27
BLANK TEST	0.000	07:28

Average = 0.0783
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100345

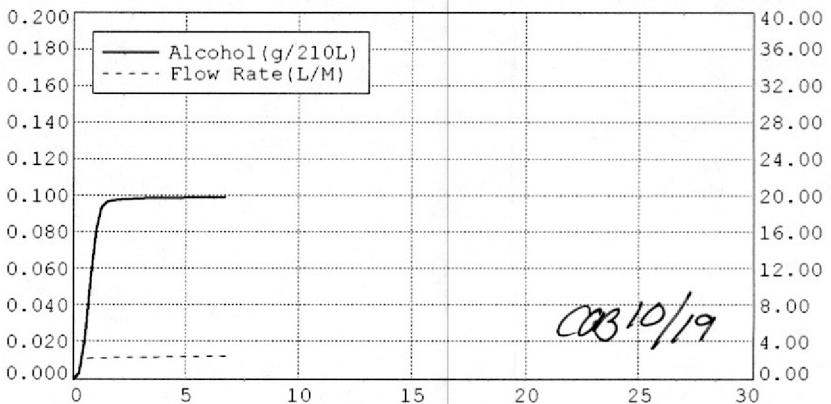
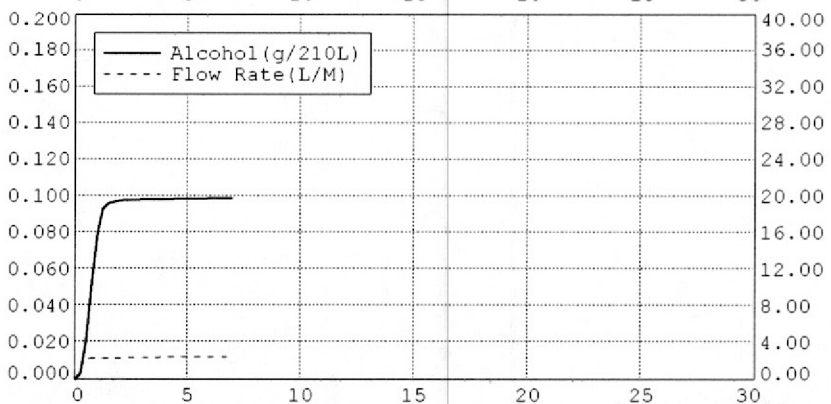
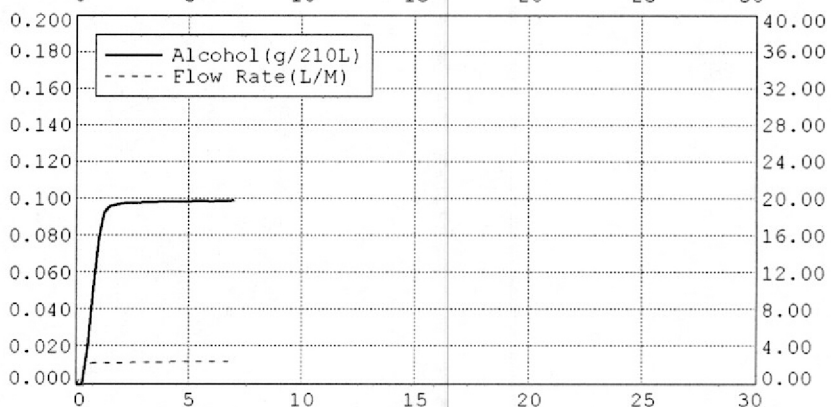
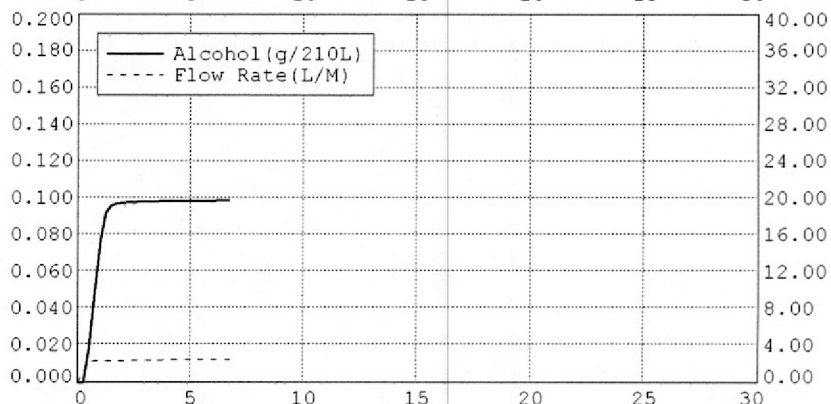
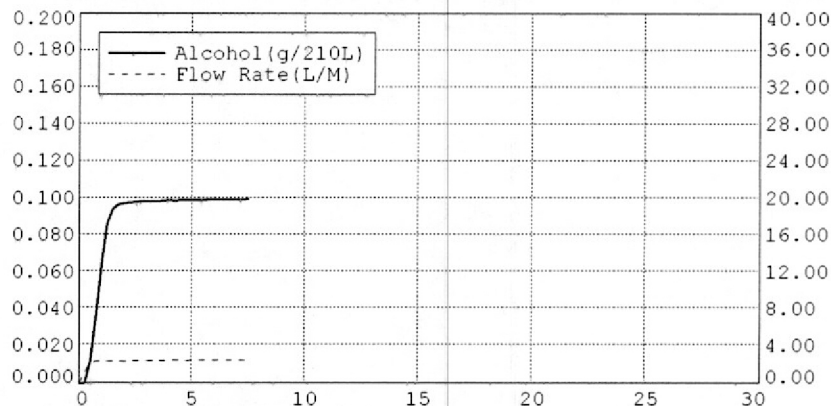
Date: 07/25/2012
Time: 07:28:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 30.09: 0.100
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:31
INTERNAL STANDARD	VERIFIED	07:31
EXTERNAL STANDARD	0.100	07:32
BLANK TEST	0.000	07:32
EXTERNAL STANDARD	0.099	07:33
BLANK TEST	0.000	07:34
EXTERNAL STANDARD	0.099	07:34
BLANK TEST	0.000	07:35
EXTERNAL STANDARD	0.099	07:35
BLANK TEST	0.000	07:36
EXTERNAL STANDARD	0.100	07:36
BLANK TEST	0.000	07:37

Average = 0.0999
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

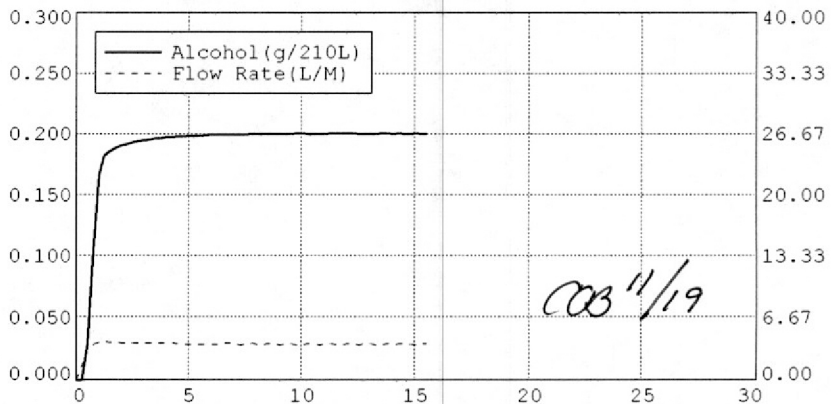
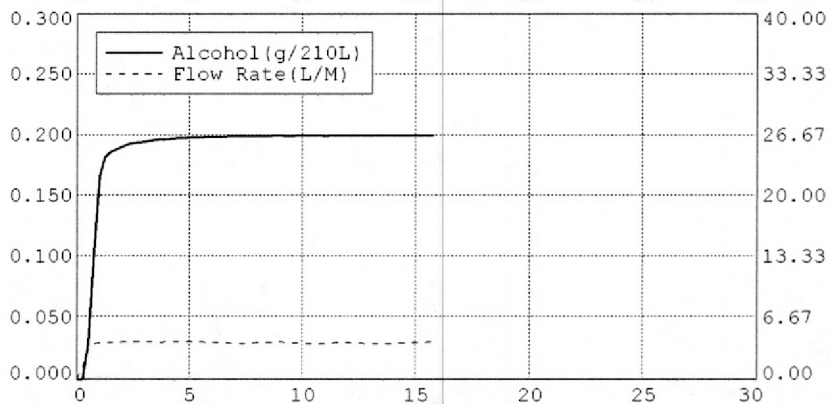
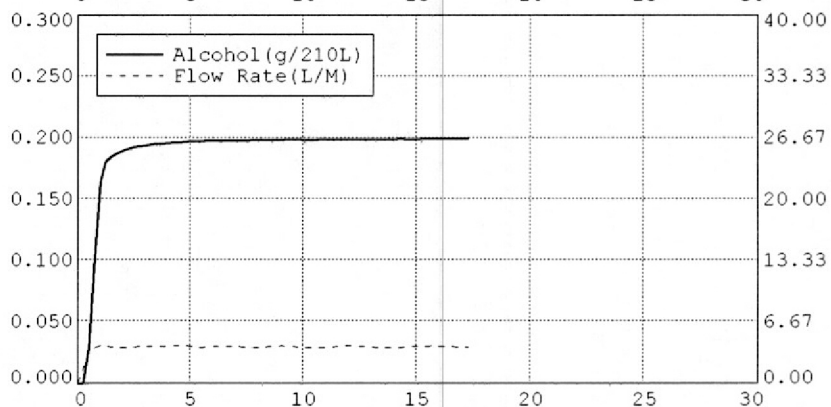
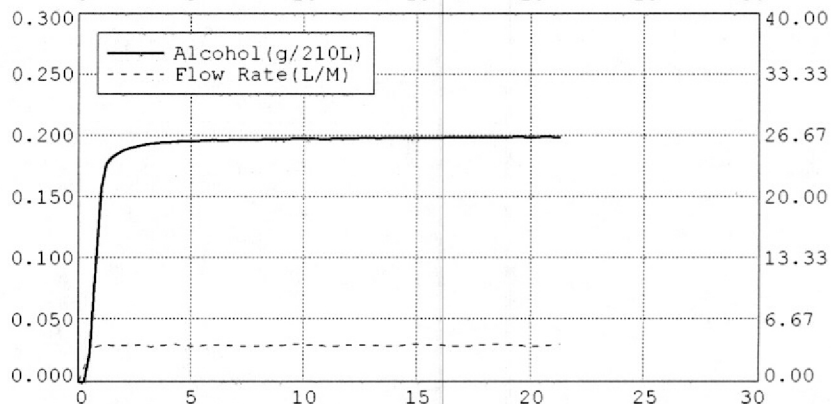
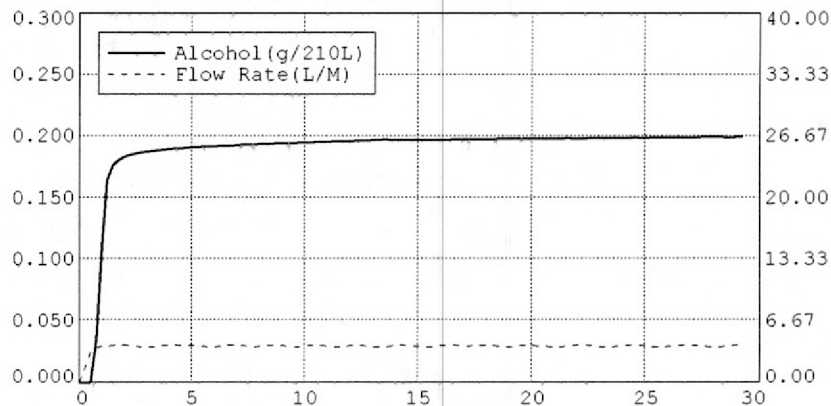
Alaska Department of Public Safety
DATAMASTER dmt: 100345

Date: 07/25/2012
Time: 07:40:44

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

BLANK TEST	0.000	07:45
INTERNAL STANDARD	VERIFIED	07:45
EXTERNAL STANDARD	0.200	07:46
BLANK TEST	0.000	07:47
EXTERNAL STANDARD	0.200	07:48
BLANK TEST	0.000	07:48
EXTERNAL STANDARD	0.200	07:49
BLANK TEST	0.000	07:50
EXTERNAL STANDARD	0.201	07:50
BLANK TEST	0.000	07:51
EXTERNAL STANDARD	0.201	07:51
BLANK TEST	0.000	07:52

Average = 0.2009
Std Dev = 0.0006



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100345

Date: 07/25/2012
Time: 07:55:23

EXTERNAL STANDARD INFORMATION

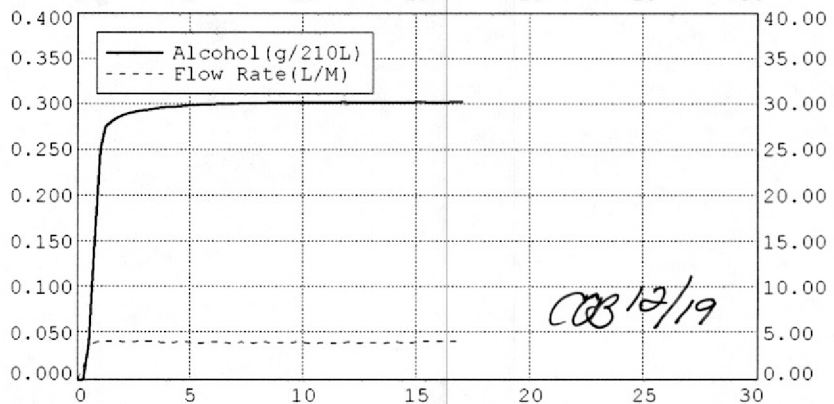
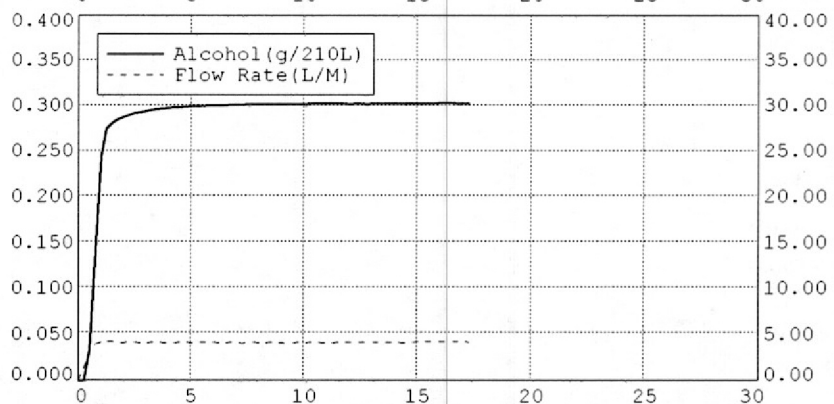
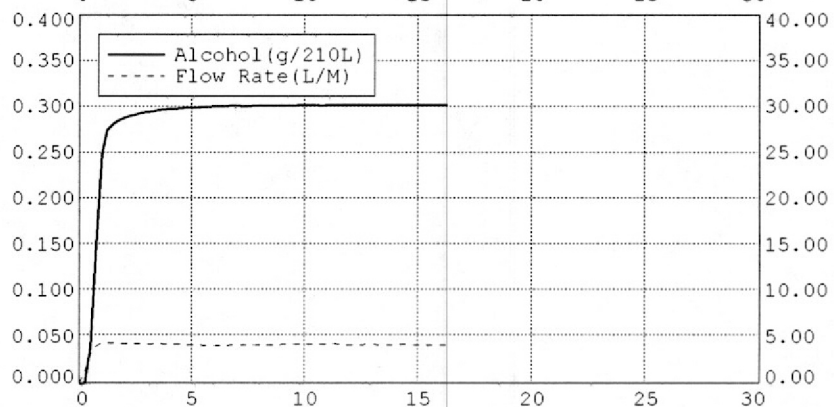
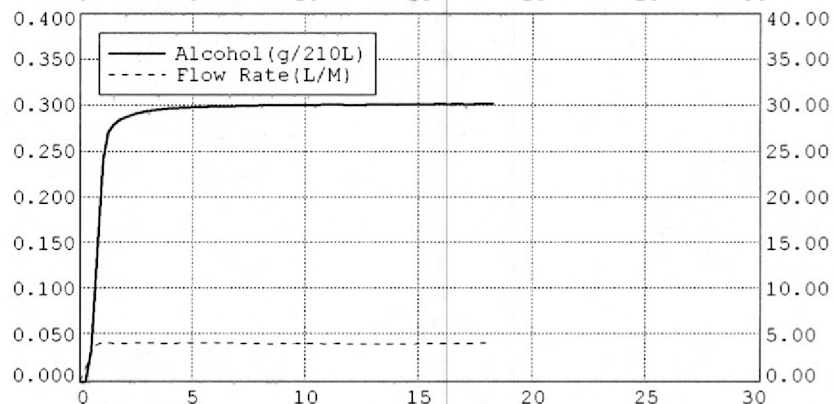
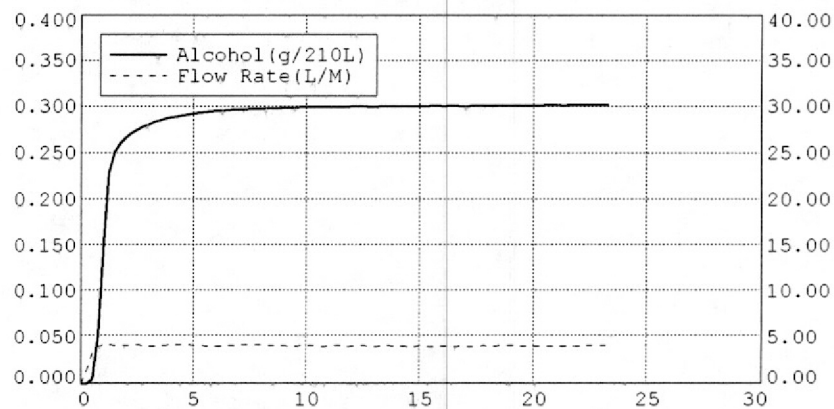
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	07:58
INTERNAL STANDARD	VERIFIED	07:58
EXTERNAL STANDARD	0.302	07:58
BLANK TEST	0.000	08:00
EXTERNAL STANDARD	0.302	08:00
BLANK TEST	0.000	08:01
EXTERNAL STANDARD	0.302	08:01
BLANK TEST	0.000	08:02
EXTERNAL STANDARD	0.302	08:03
BLANK TEST	0.000	08:03
EXTERNAL STANDARD	0.302	08:04
BLANK TEST	0.000	08:05

Average = 0.3024
Std Dev = 0.0004



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100345

Date: 07/25/2012
 Time: 08:17:21

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

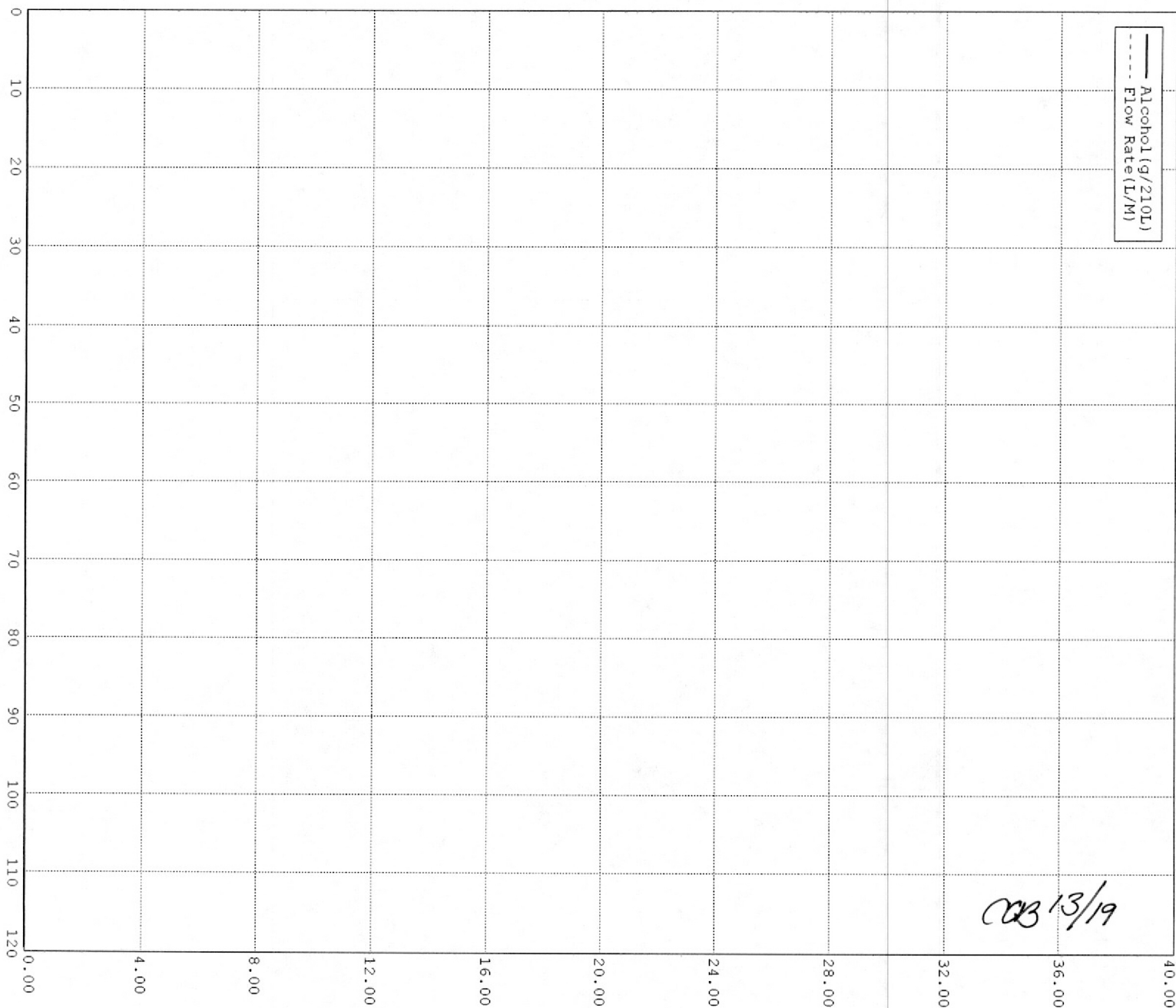
OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.09: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	08:58
BLANK TEST	0.000	08:58
INTERNAL STANDARD	VERIFIED	08:58
EXTERNAL STANDARD	0.077	08:59
BLANK TEST	0.000	08:59
SUBJECT SAMPLE	INCOMPLETE	09:02

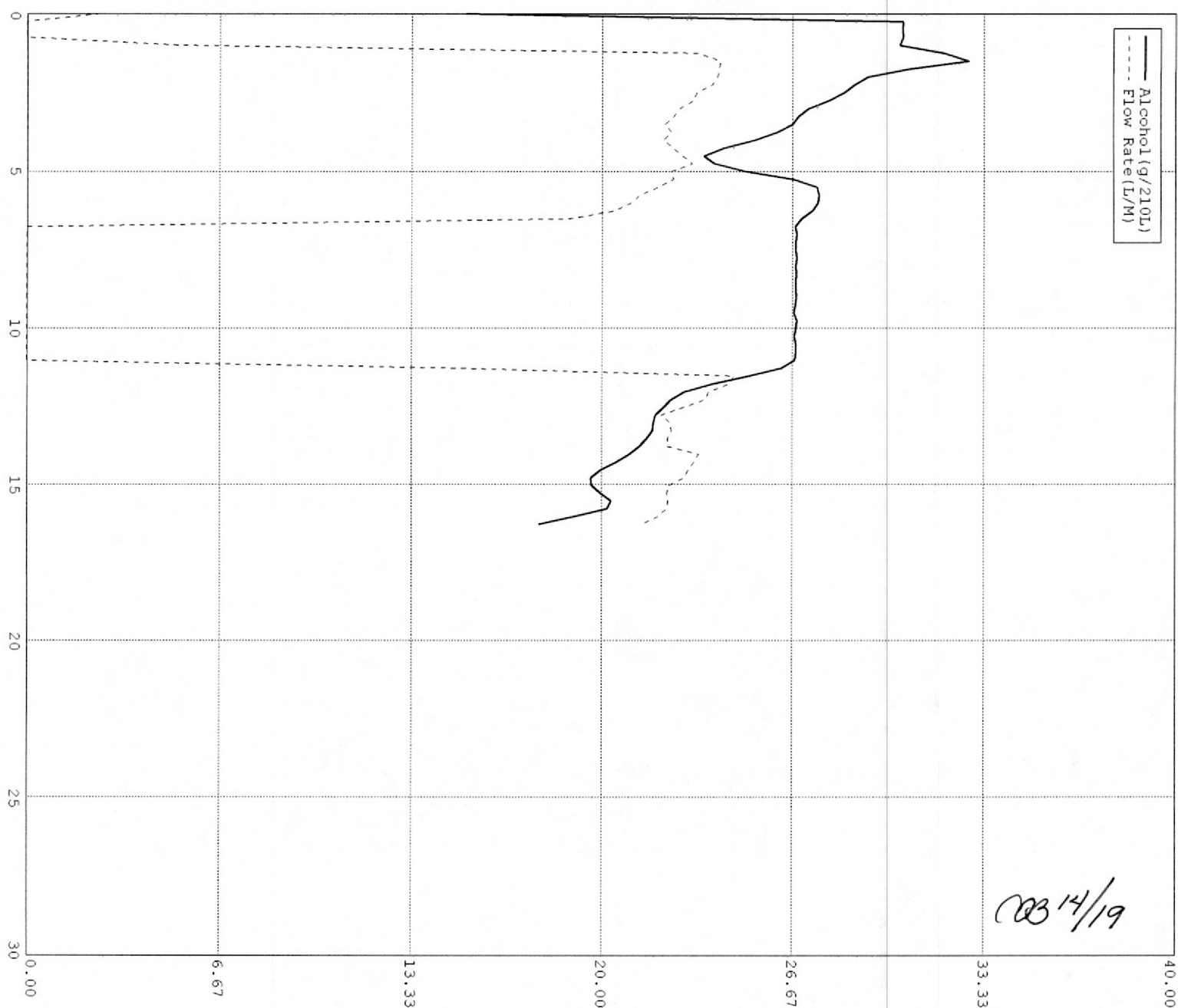
CRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100345
-----Date: 07/25/2012
Time: 09:04:52SUBJECT NAME:
TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.09: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 09:07
INTERNAL STANDARD VERIFIED 09:07
EXTERNAL STANDARD 0.078 09:08
BLANK TEST 0.000 09:08
SUBJECT SAMPLE INVALID 09:09

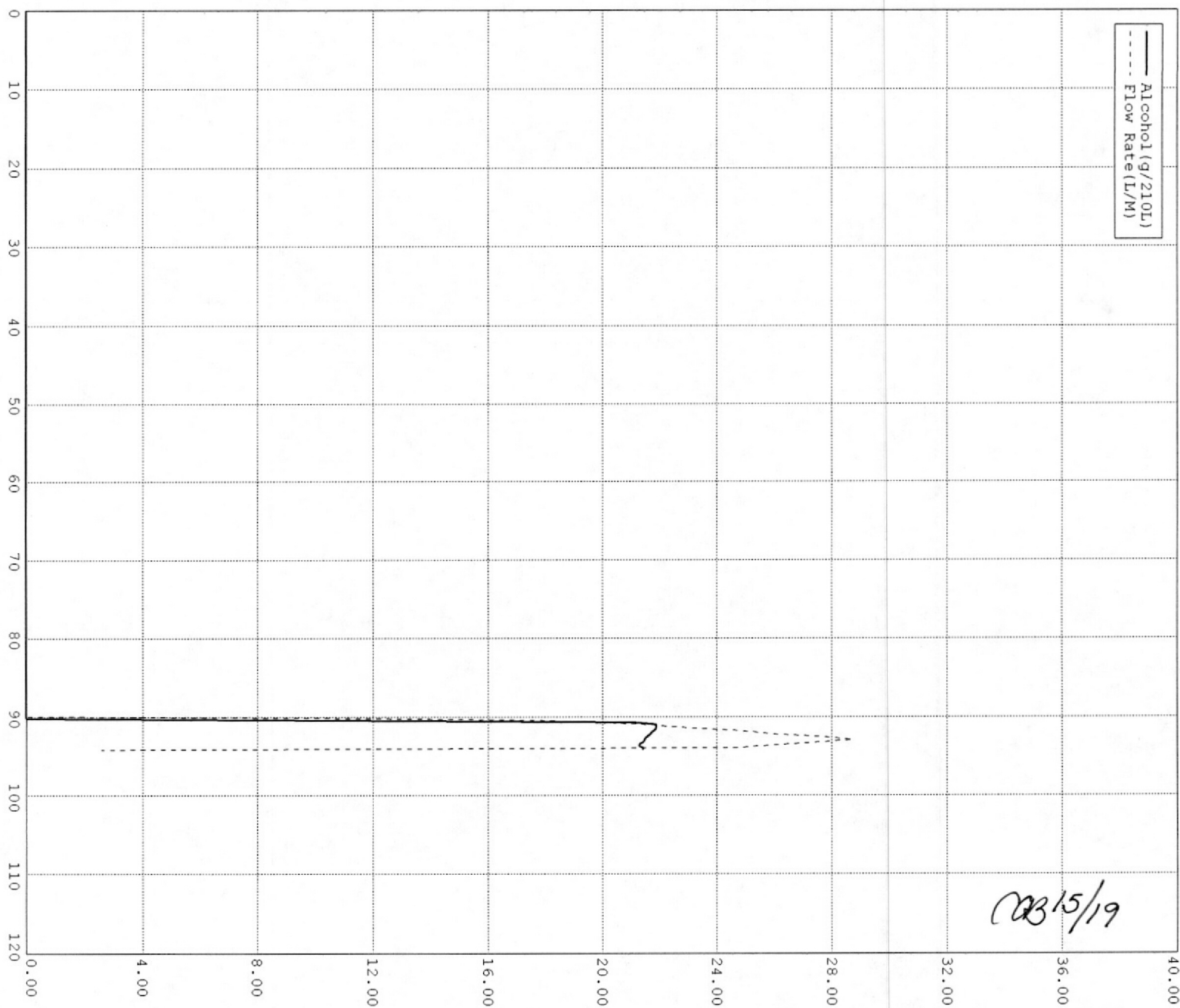
CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100345
-----Date: 07/25/2012
Time: 09:15:14SUBJECT NAME:
TEST TEST
LICENSE #: INT- ACETONEOPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.09: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:18
BLANK TEST	0.000	09:18
INTERNAL STANDARD	VERIFIED	09:18
Xq = 0.097 (0.27%)		
EXTERNAL STANDARD	0.078	09:18
X[1] = 0.0782 (0.0004)	(0.0034)	
BLANK TEST	0.000	09:19
SUBJECT SAMPLE	INTERFERENCE	09:21
X[1] = 0.1068 (-0.0121)	(0.0032)	

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

SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100345

Date: 07/25/2012
 Time: 09:32:58

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

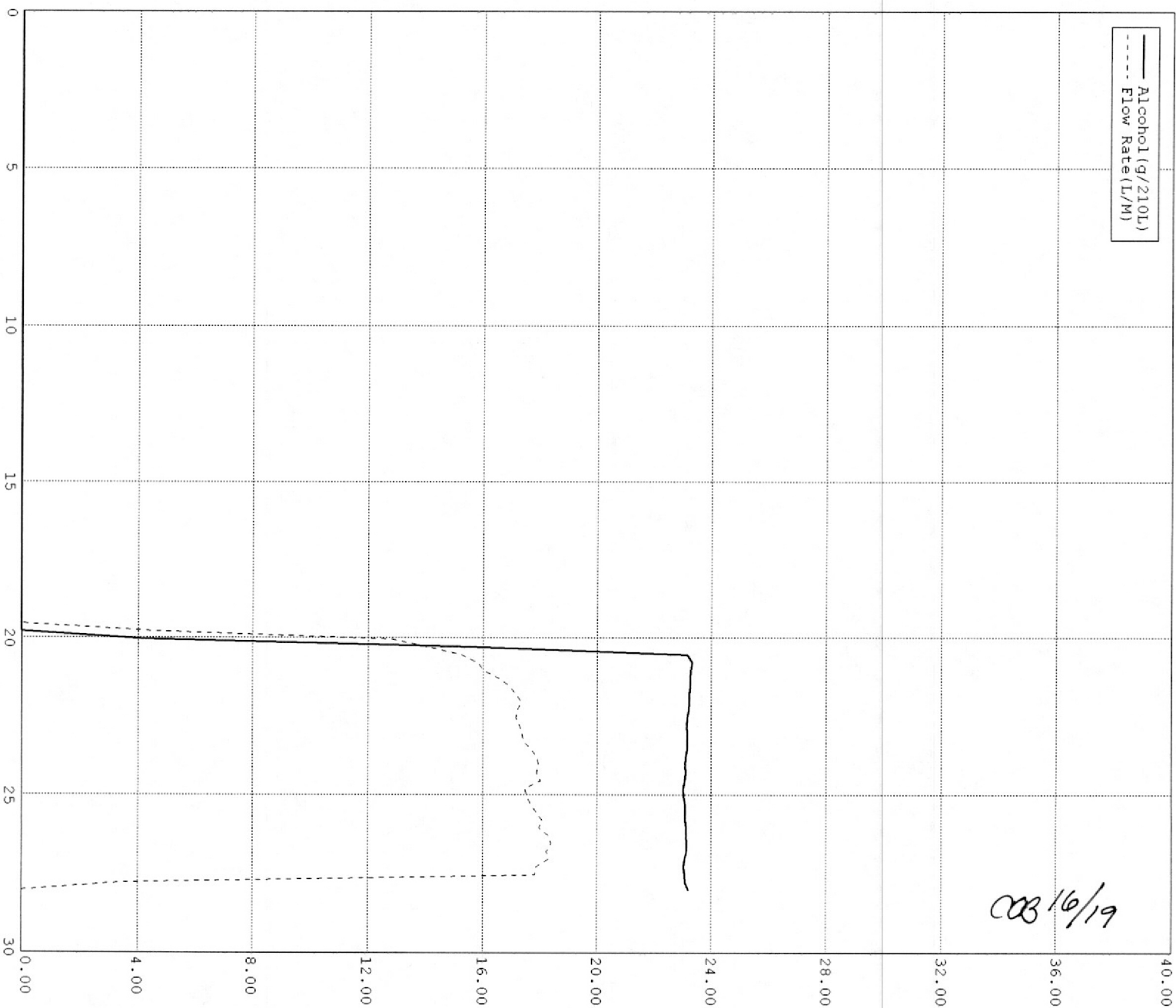
OPERATOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.09: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:34
BLANK TEST	0.000	09:34
INTERNAL STANDARD	VERIFIED	09:34
Xq = 0.097 (0.27%)		
EXTERNAL STANDARD	0.078	09:35
X[1] = 0.0780 (-0.0001)	(0.0032)	
BLANK TEST	0.000	09:35
SUBJECT SAMPLE	INTERFERENCE	09:36
X[1] = 0.1158 (-0.0223)	(0.0026)	

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

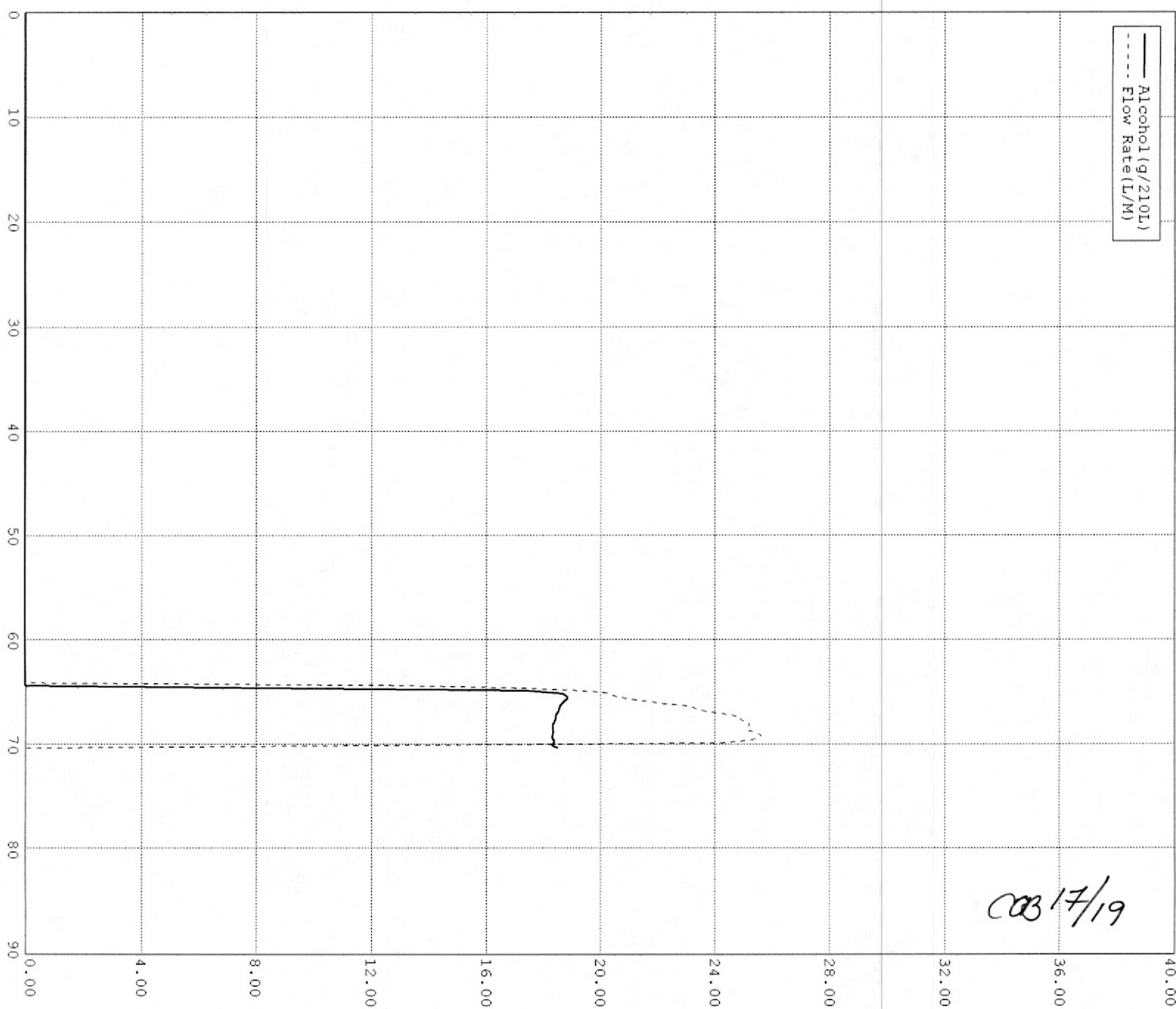


SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100345Date: 07/25/2012
Time: 09:24:10SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.09: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:25
BLANK TEST	0.000	09:25
INTERNAL STANDARD	VERIFIED	09:25
Xq = 0.097 (0.18%)		
EXTERNAL STANDARD	0.078	09:25
X[1] = 0.0781 (0.0005)	(0.0030)	
BLANK TEST	0.000	09:26
SUBJECT SAMPLE (Vol=2.24L)	0.091	09:27
X[1] = 0.0919 (0.0010)	(0.0017)	
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.078	09:29
X[1] = 0.0782 (-0.0002)	(0.0022)	
BLANK TEST	0.000	09:30

CAB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100345

Date: 07/25/2012
Time: 09:46:09

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

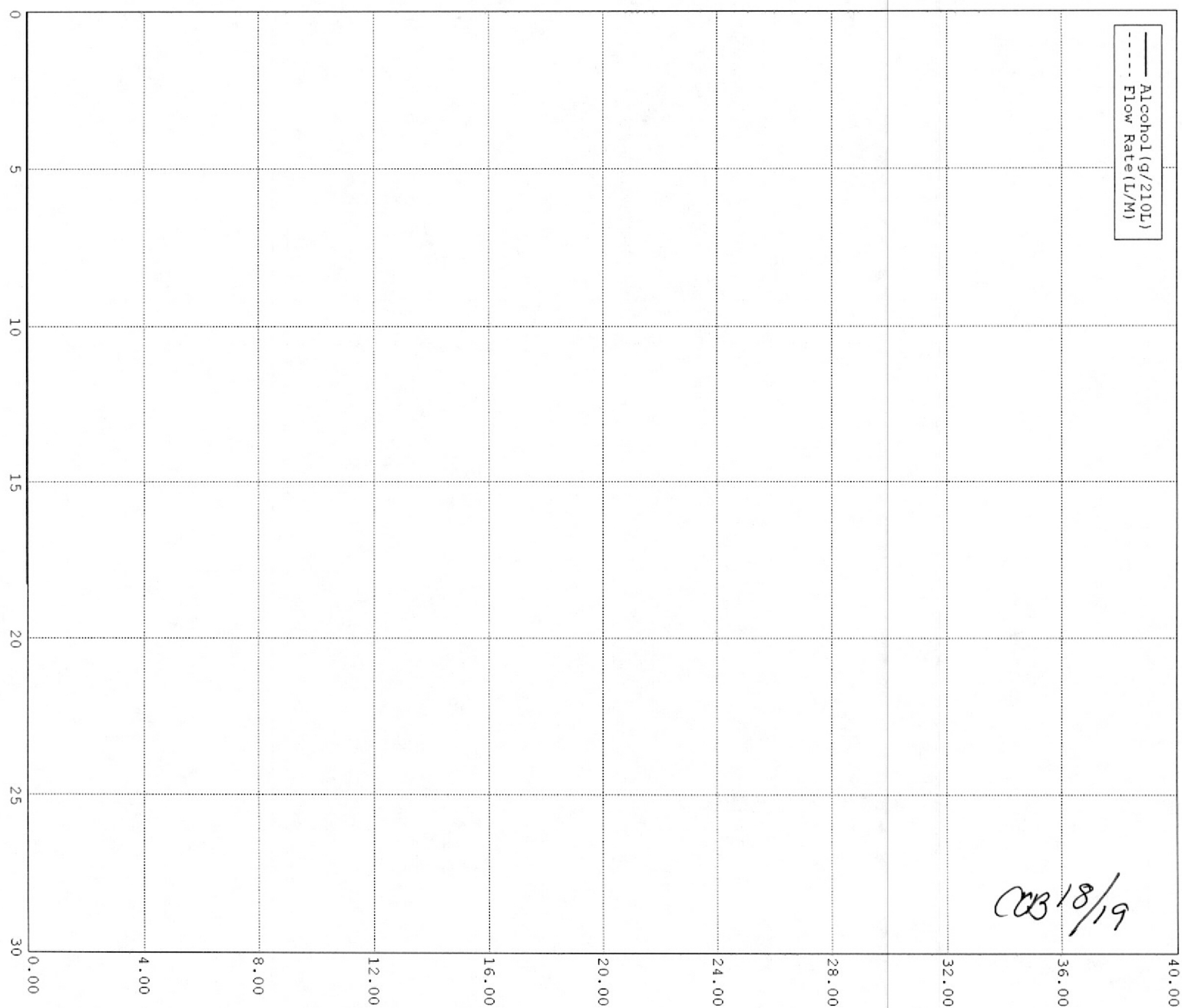
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.09: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:06
BLANK TEST	0.000	10:06
INTERNAL STANDARD	VERIFIED	10:06
EXTERNAL STANDARD	0.078	10:06
BLANK TEST	0.000	10:07

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100345Date: 07/25/2012
Time: 10:18:37SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKINGOPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.09: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:19
BLANK TEST	0.000	10:19
INTERNAL STANDARD	VERIFIED	10:19
EXTERNAL STANDARD	0.079	10:20
BLANK TEST	0.000	10:21
SUBJECT SAMPLE	0.000	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.078	10:22
BLANK TEST	0.000	10:23

CK

