

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100676 Analyst Colleen O'Bryant Start Date 5/14/2012Diagnostic 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 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 02511080A2 Exp 02/01/2013iv. 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 SD1176 Date Calibrated 08/17/2011vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/20131. Simulator S/N DR4176 Date Calibrated 02/21/2012

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/14/20121. Simulator S/N DR6267 Date Calibrated 9/10/2012iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/06/20131. Simulator S/N SD1202 Date Calibrated 8/17/2011d. 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 5/15/2012

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100676

Date: 05/14/2012
Time: 10:46:52

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 47.1°C	PASSED

PUMP INFO	
Flow Rate = 3.810 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
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COB 2/19

Technician Screen

DATAMASTER dmt: 100676

Date: 05/14/2012

Time: 10:59 AM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 47.2°C

Current Barometer 29.9 in

Volume (Ltr) 1.60

Settings

Lamp: 1.60 V

Bias: 80 V

Cooler: 1.67 V

Chopper: 523 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.062 V

COB 3/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100676

Date: 10/26/2011
Time: 07:46:55

Ca	=	0.1000		
CAL	=	1.005681	0.800	<= CAL < 1.200
b1	=	0.0000	0.0000	<= b1 < 0.0040
b2	=	0.0043	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0882	0.0500	<= Xq < 0.2000
a21	=	1.239164	1.050	<= a21 < 1.300
a31	=	0.566145	0.300	<= a31 < 0.800

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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100676

Date: 05/14/2012
 Time: 11:06:46

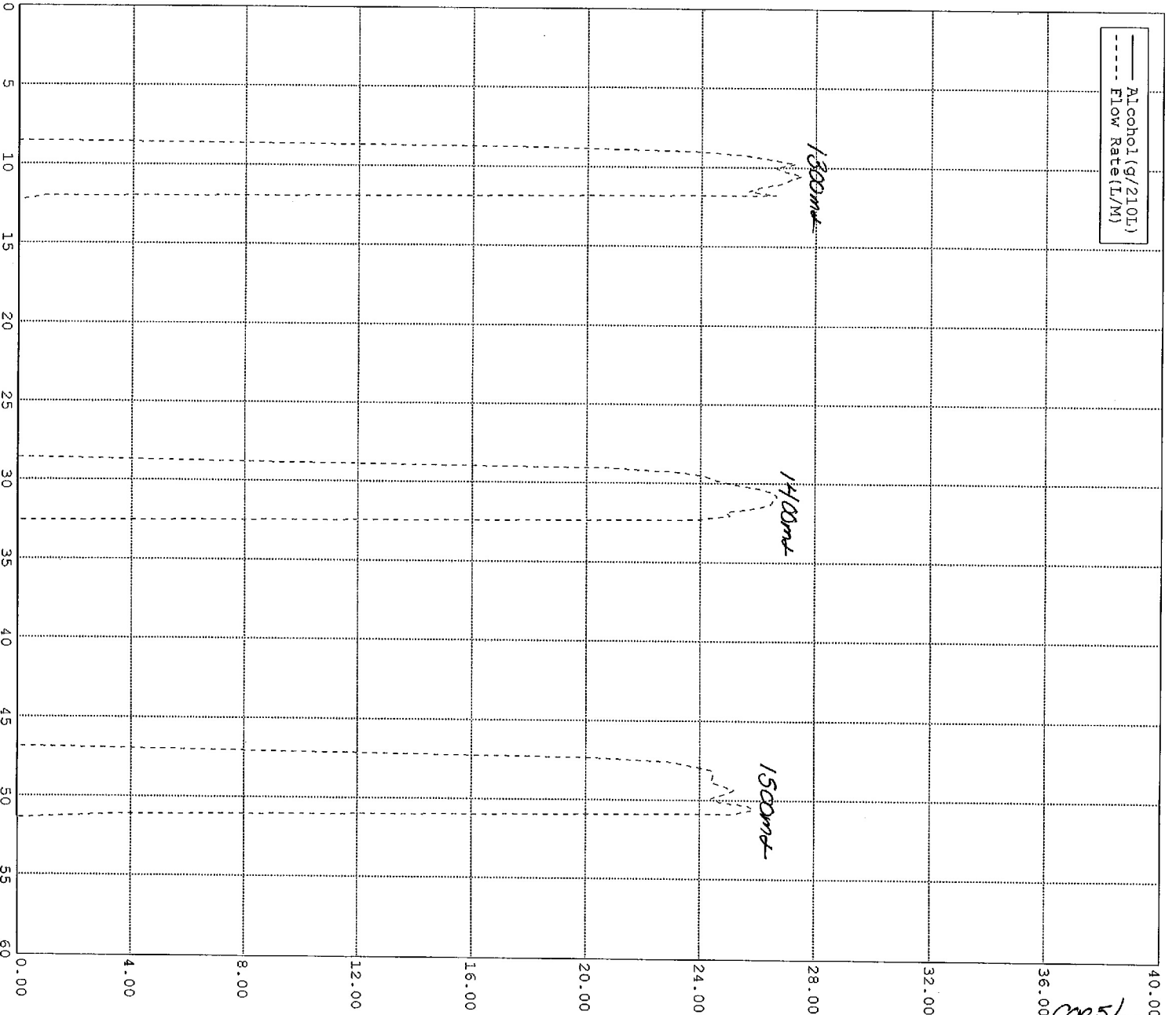
SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.91: 0.079
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:07
BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:08
EXTERNAL STANDARD	0.078	11:08
BLANK TEST	0.000	11:09
SUBJECT SAMPLE	0.000	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.077	11:11
BLANK TEST	0.000	11:12



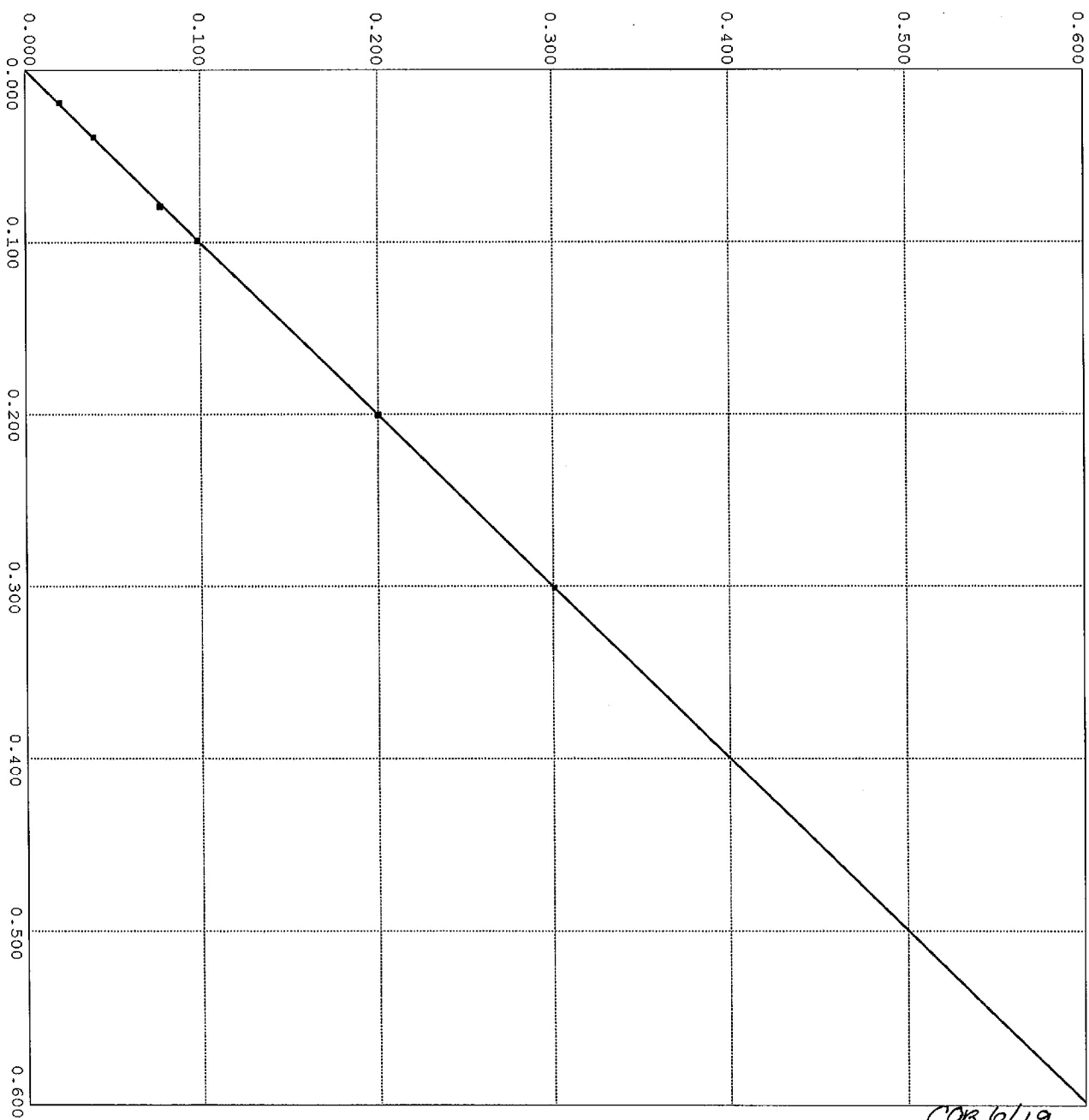
LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100676Date: 05/14/2012
Time: 13:10:25SUPERVISOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0002
0.039	0.0399	0.0002
0.079	0.0780	0.0004
0.099	0.0993	0.0002
0.200	0.2010	0.0002
0.300	0.3016	0.0011

SLOPE = 1.003407
 R^2 = 0.999936

CAB



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LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100676

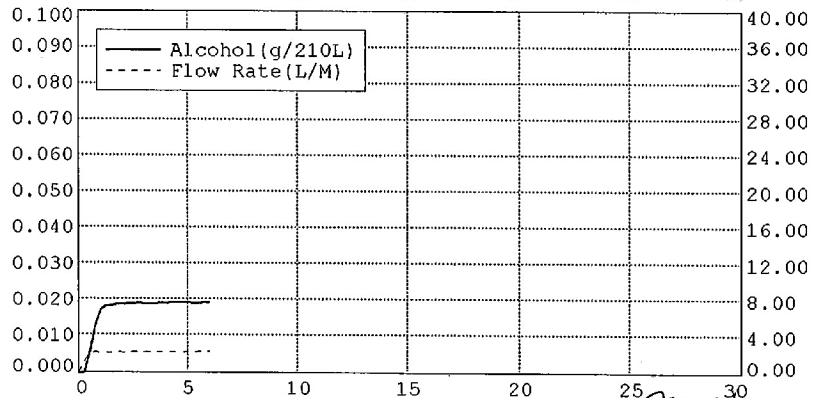
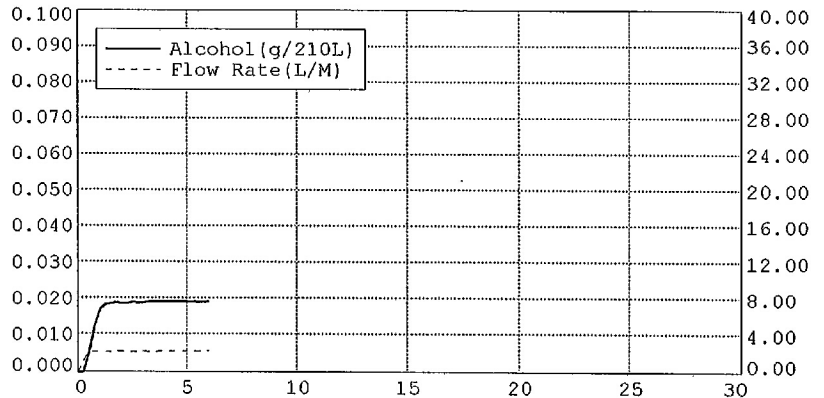
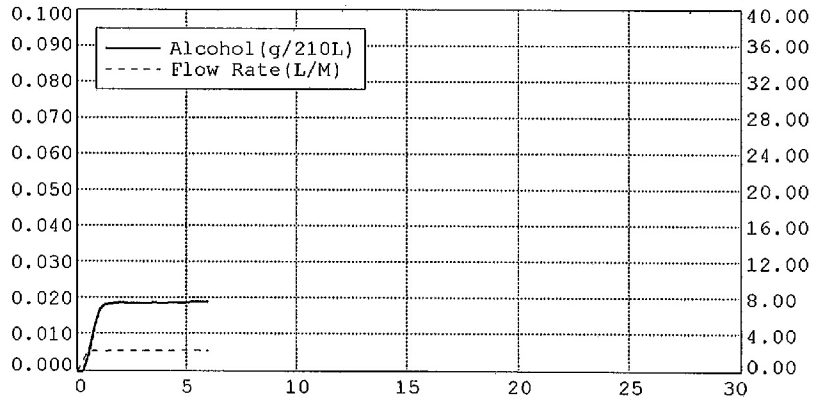
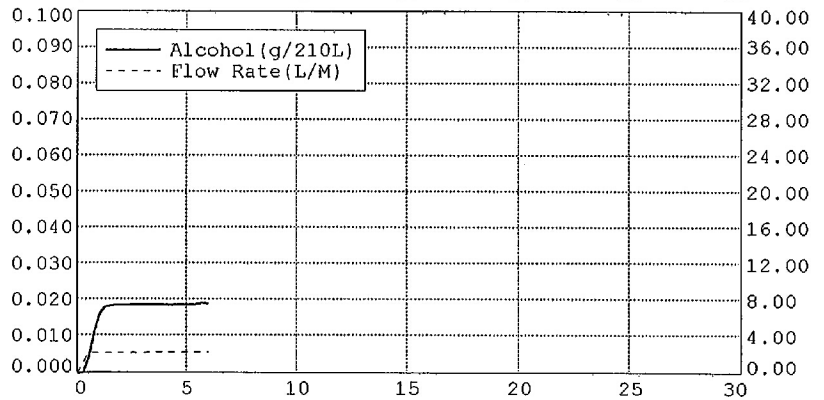
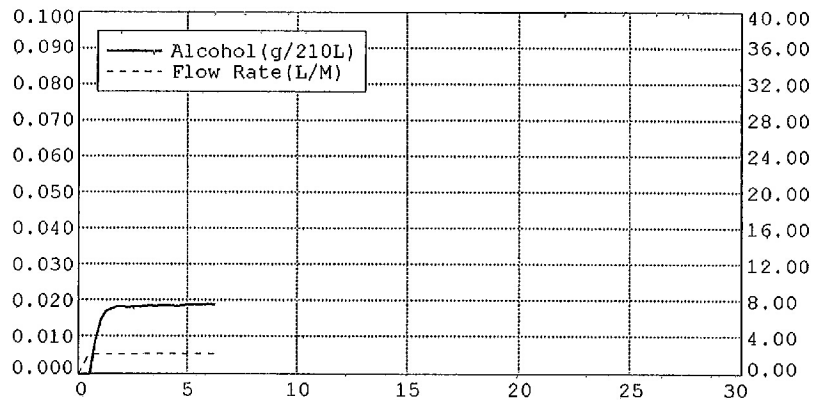
Date: 05/14/2012
Time: 13:10:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.92: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:12
INTERNAL STANDARD	VERIFIED	13:12
EXTERNAL STANDARD	0.020	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.020	13:14
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.020	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.020	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.020	13:17
BLANK TEST	0.000	13:18

Average = 0.0202
Std Dev = 0.0002



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LINEARITY CHECK: Control Test 2

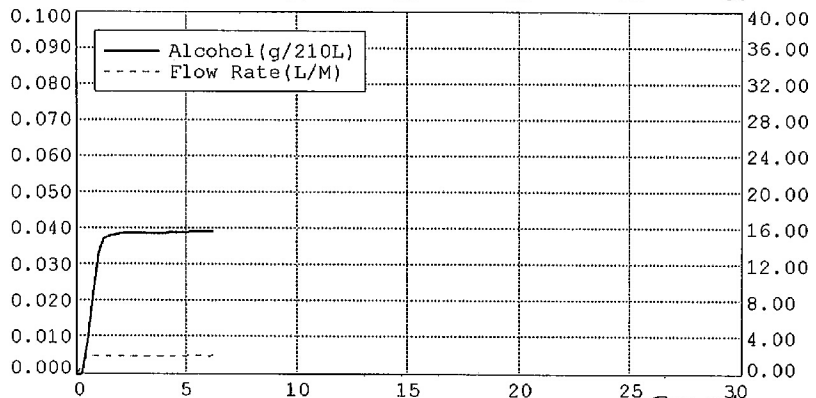
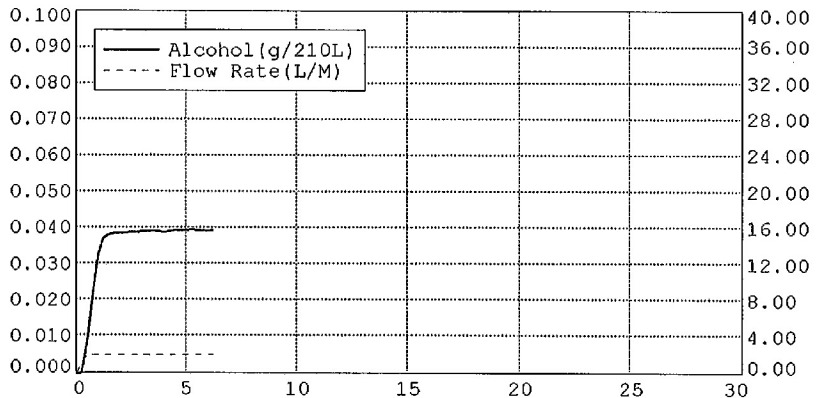
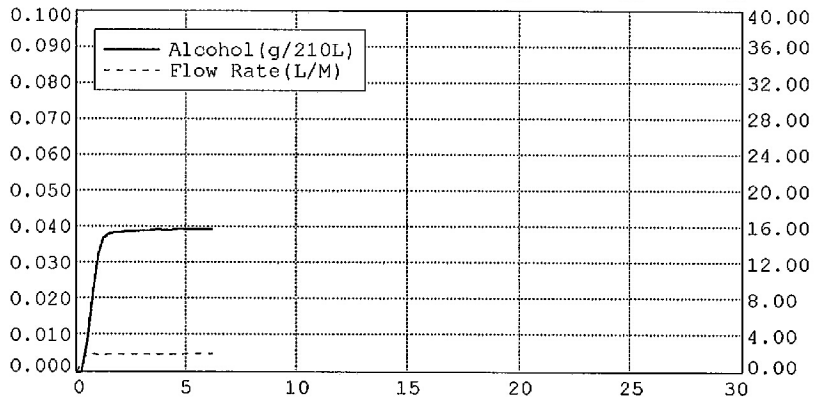
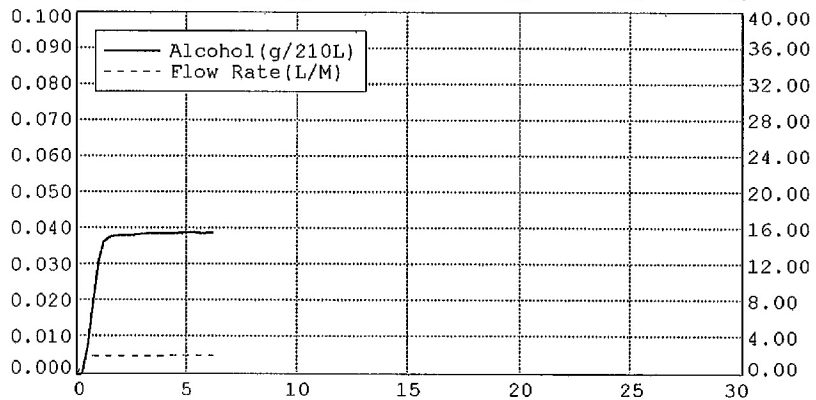
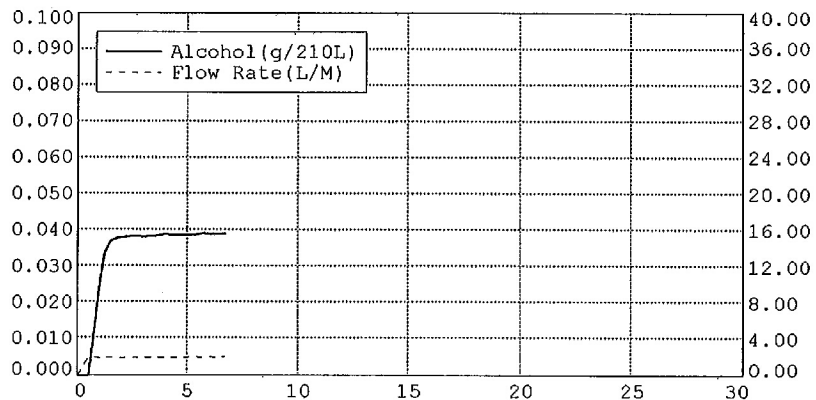
Alaska Department of Public Safety
DATAMASTER dmt: 100676

Date: 05/14/2012
Time: 13:21:08

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.92: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:27
INTERNAL STANDARD	VERIFIED	13:27
EXTERNAL STANDARD	0.039	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.039	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.040	13:30
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.040	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.040	13:32
BLANK TEST	0.000	13:33

Average = 0.0399
Std Dev = 0.0002



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LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100676

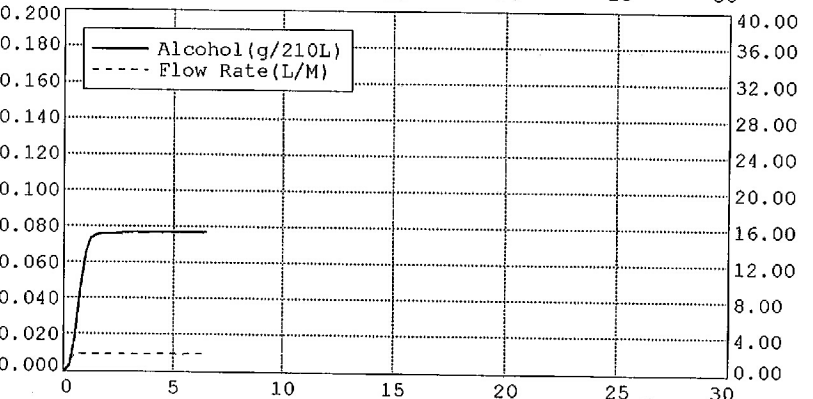
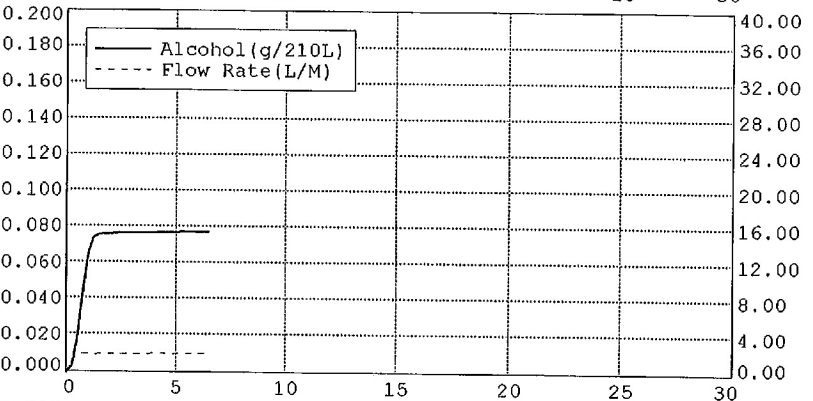
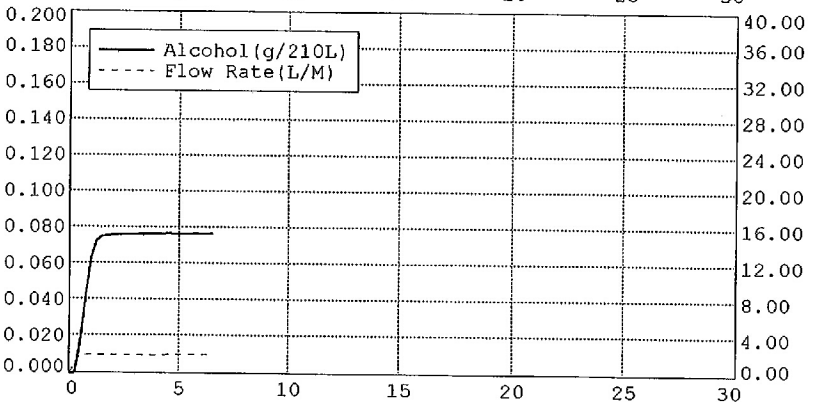
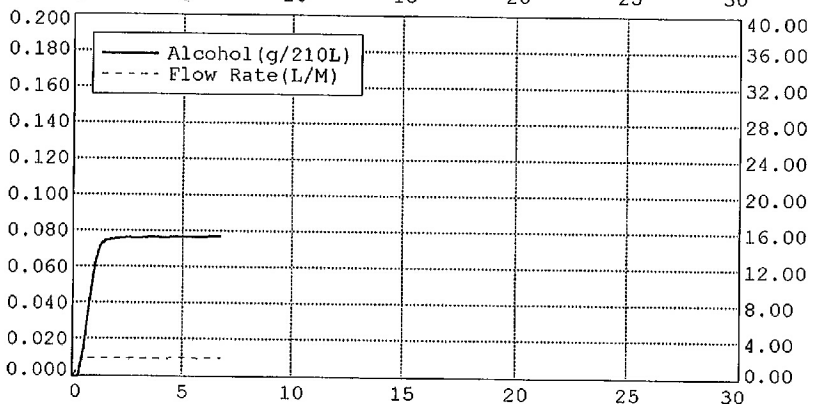
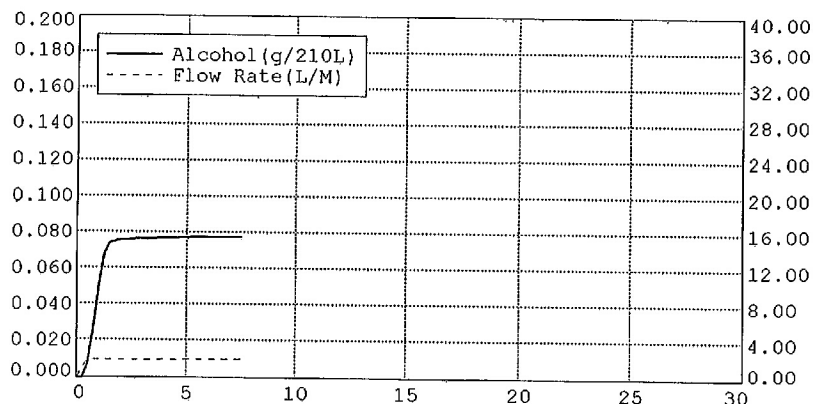
Date: 05/14/2012
Time: 13:36:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.92: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:37
INTERNAL STANDARD	VERIFIED	13:38
EXTERNAL STANDARD	0.078	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.077	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.077	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.078	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.078	13:42
BLANK TEST	0.000	13:43

Average = 0.0780
Std Dev = 0.0004



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LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100676

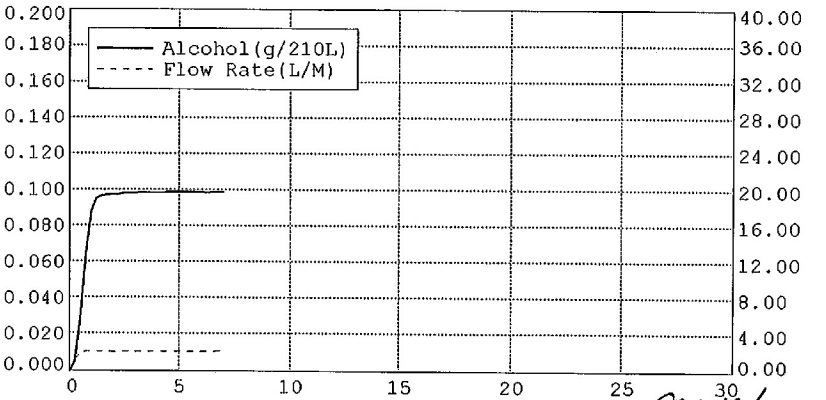
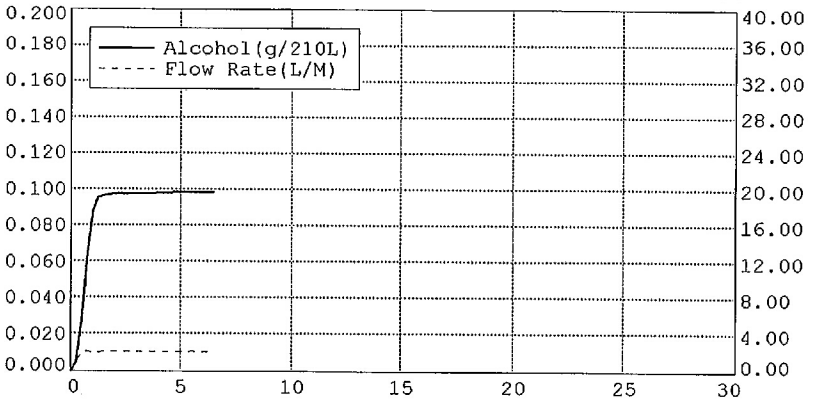
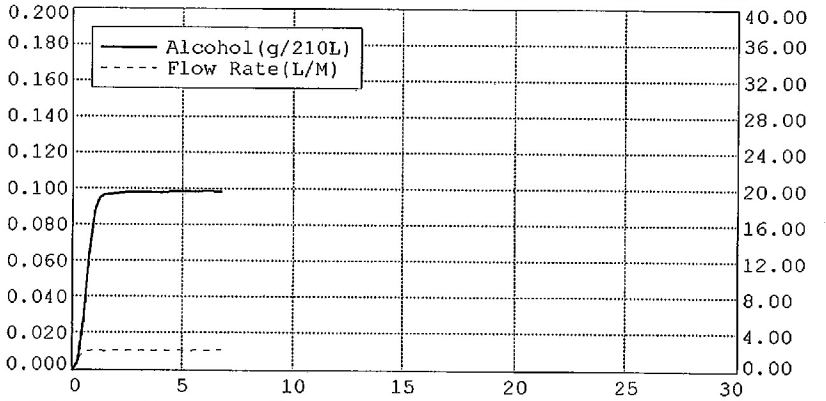
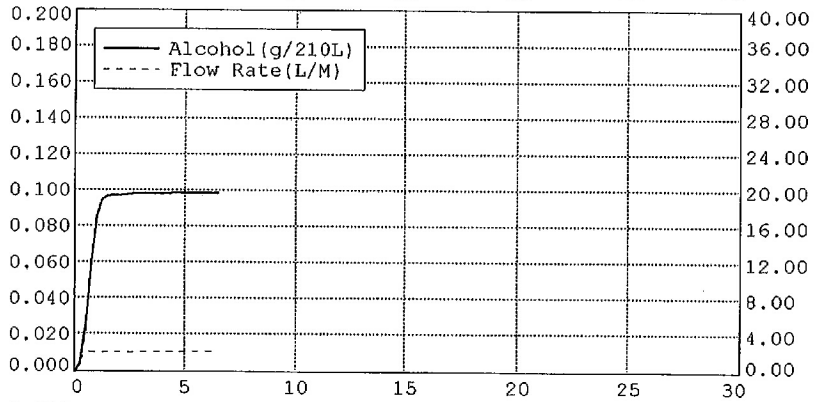
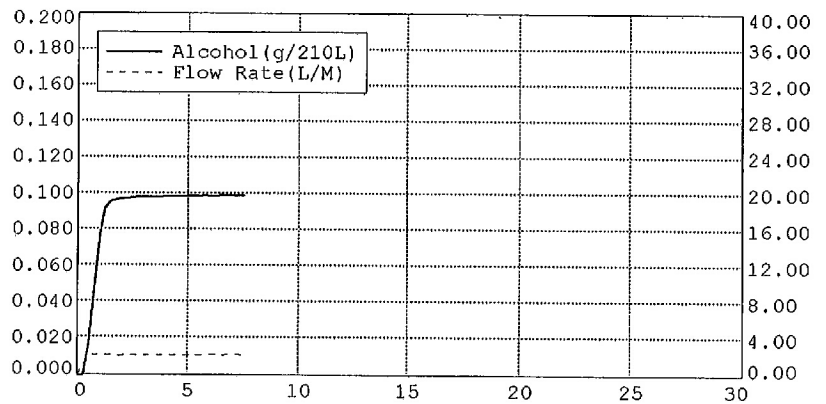
Date: 05/14/2012
Time: 13:45:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.92: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.099	13:48
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.099	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.099	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.099	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.099	13:52
BLANK TEST	0.000	13:53

Average = 0.0993
Std Dev = 0.0002



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LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100676

Date: 05/14/2012
Time: 13:53:46

EXTERNAL STANDARD INFORMATION

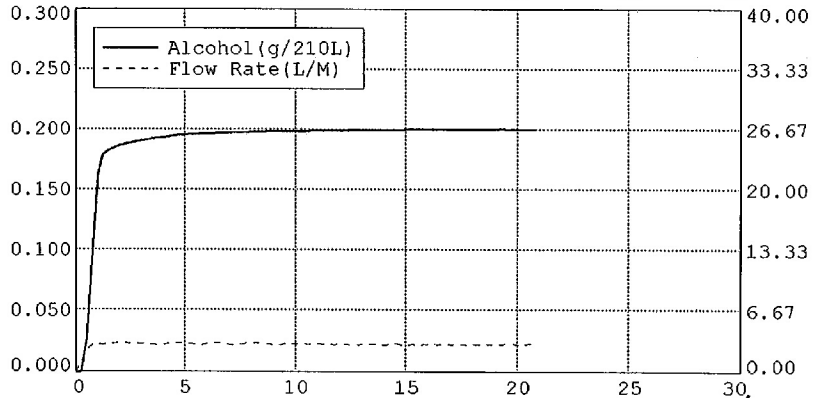
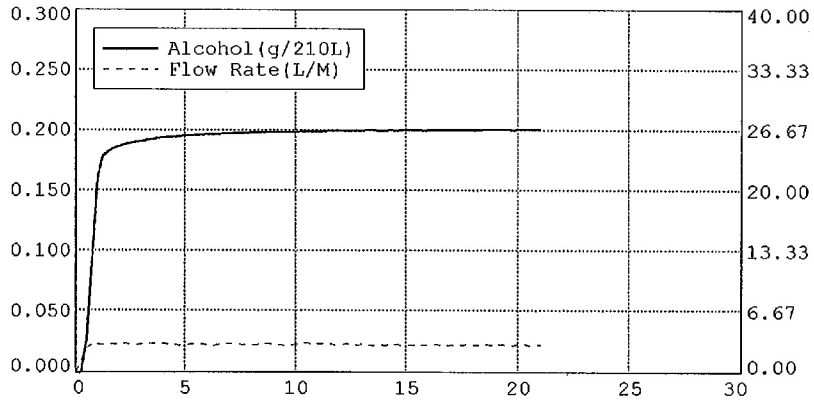
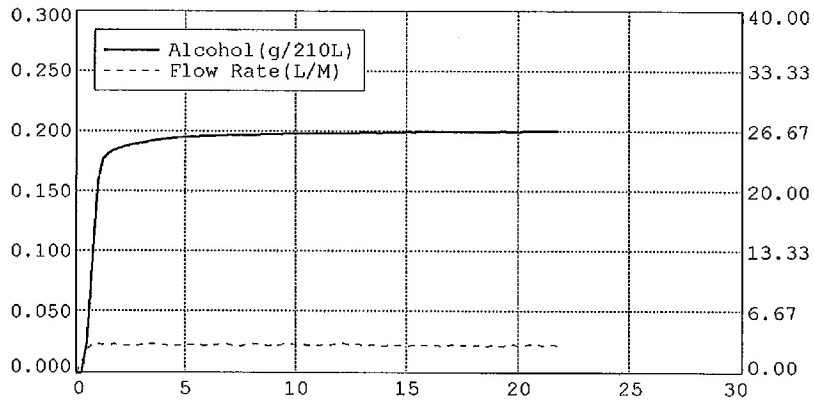
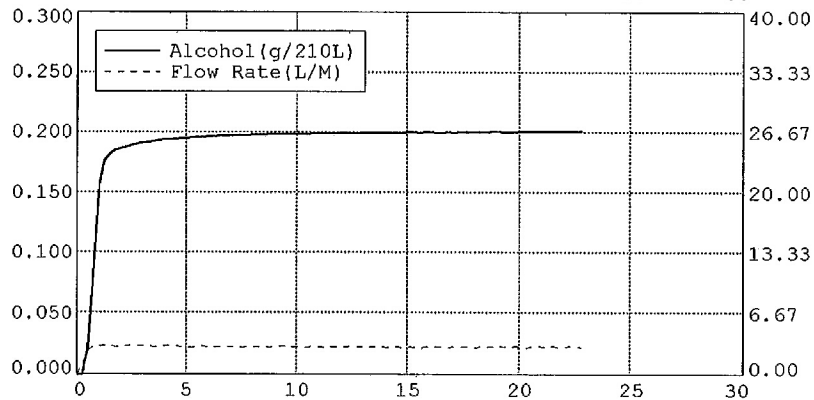
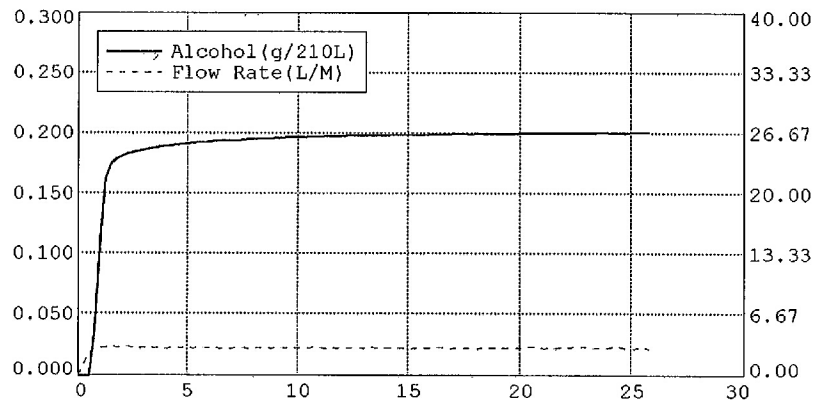
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	13:55
INTERNAL STANDARD	VERIFIED	13:55
EXTERNAL STANDARD	0.201	13:55
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.201	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.200	13:59
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.201	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.201	14:01
BLANK TEST	0.000	14:02

Average = 0.2010
Std Dev = 0.0002



CAB 4/19

LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100676

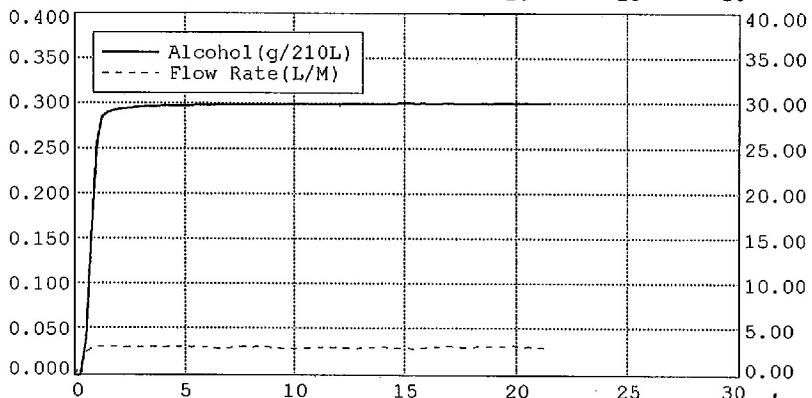
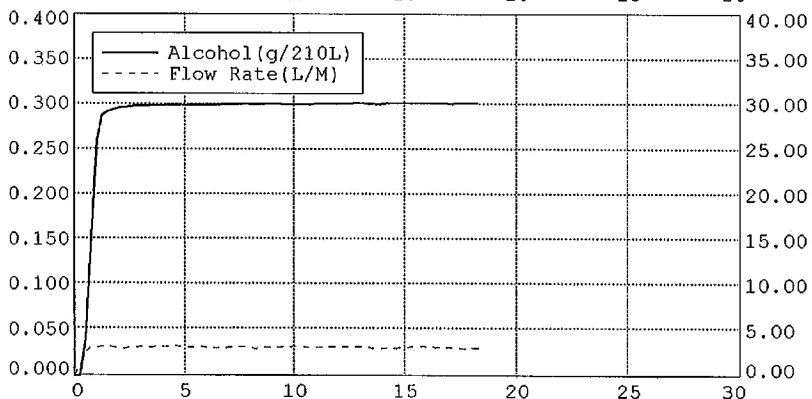
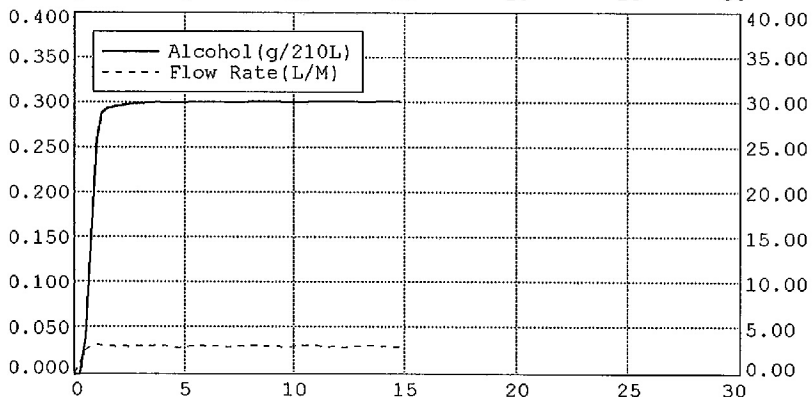
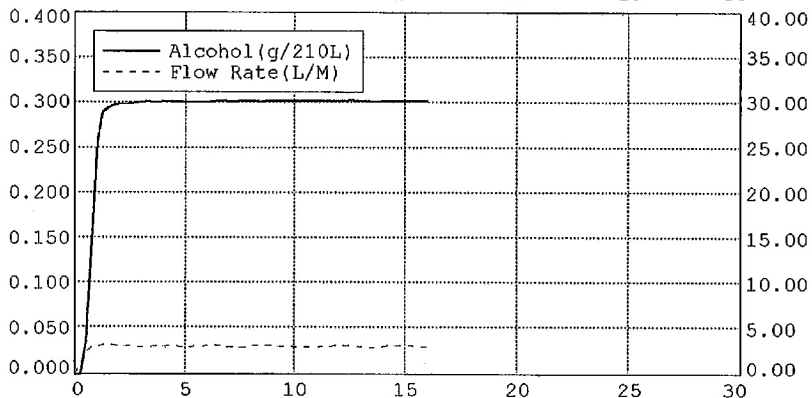
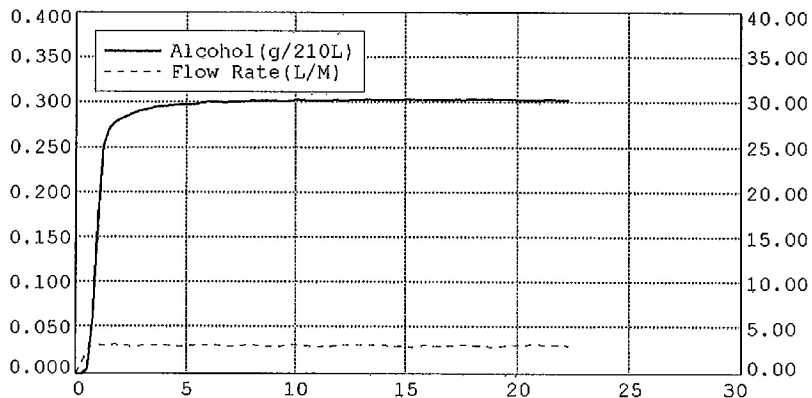
Date: 05/14/2012
Time: 14:06:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 11110
EXPIRATION: 07/13/2013

BLANK TEST	0.000	14:07
INTERNAL STANDARD	VERIFIED	14:08
EXTERNAL STANDARD	0.303	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.302	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.301	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.300	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.300	14:13
BLANK TEST	0.000	14:14

Average = 0.3016
Std Dev = 0.0011



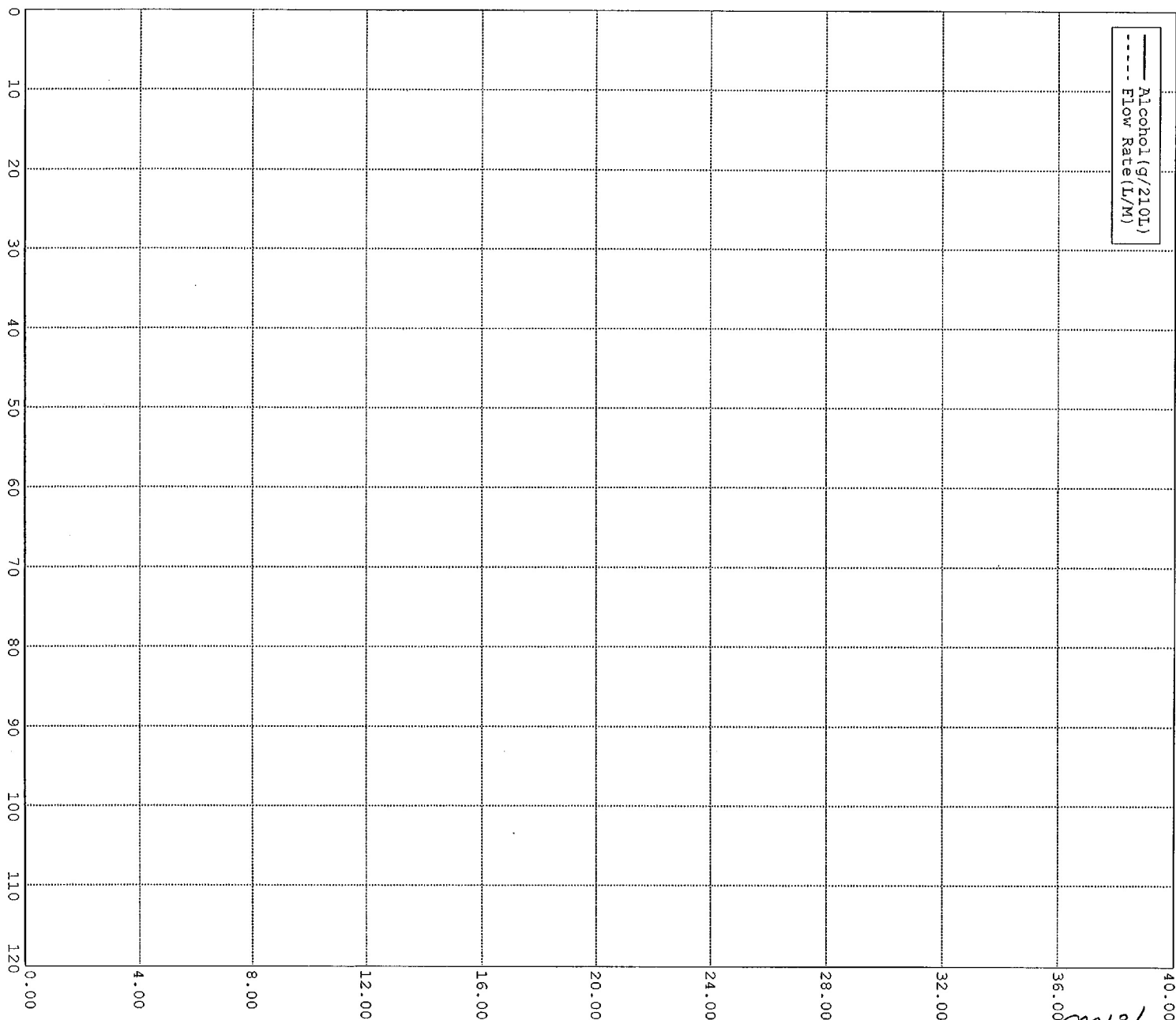
COB 12/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100676Date: 05/14/2012
Time: 14:21:01SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETEOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:26
BLANK TEST	0.000	14:26
INTERNAL STANDARD	VERIFIED	14:27
EXTERNAL STANDARD	0.077	14:27
BLANK TEST	0.000	14:28
SUBJECT SAMPLE	INCOMPLETE	14:30

CAB

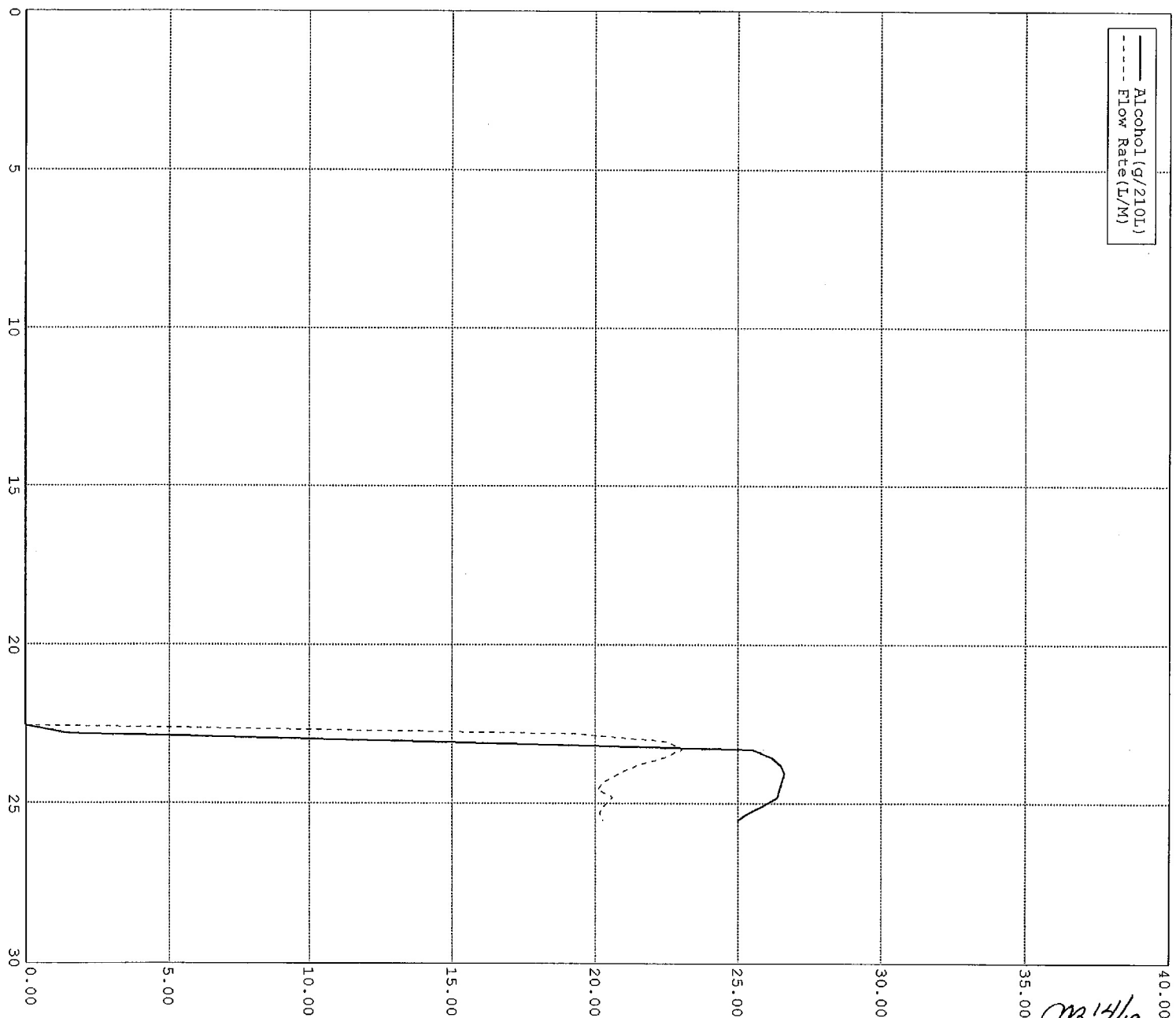


CAB 5/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100676Date: 05/14/2012
Time: 14:34:11SUBJECT 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 29.92: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 14:35
INTERNAL STANDARD VERIFIED 14:35
EXTERNAL STANDARD 0.077 14:35
BLANK TEST 0.000 14:36
SUBJECT SAMPLE INVALID 14:37

COB



COB 5/14/19

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmtc: 100676

Date: 05/14/2012
 Time: 14:50:35

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

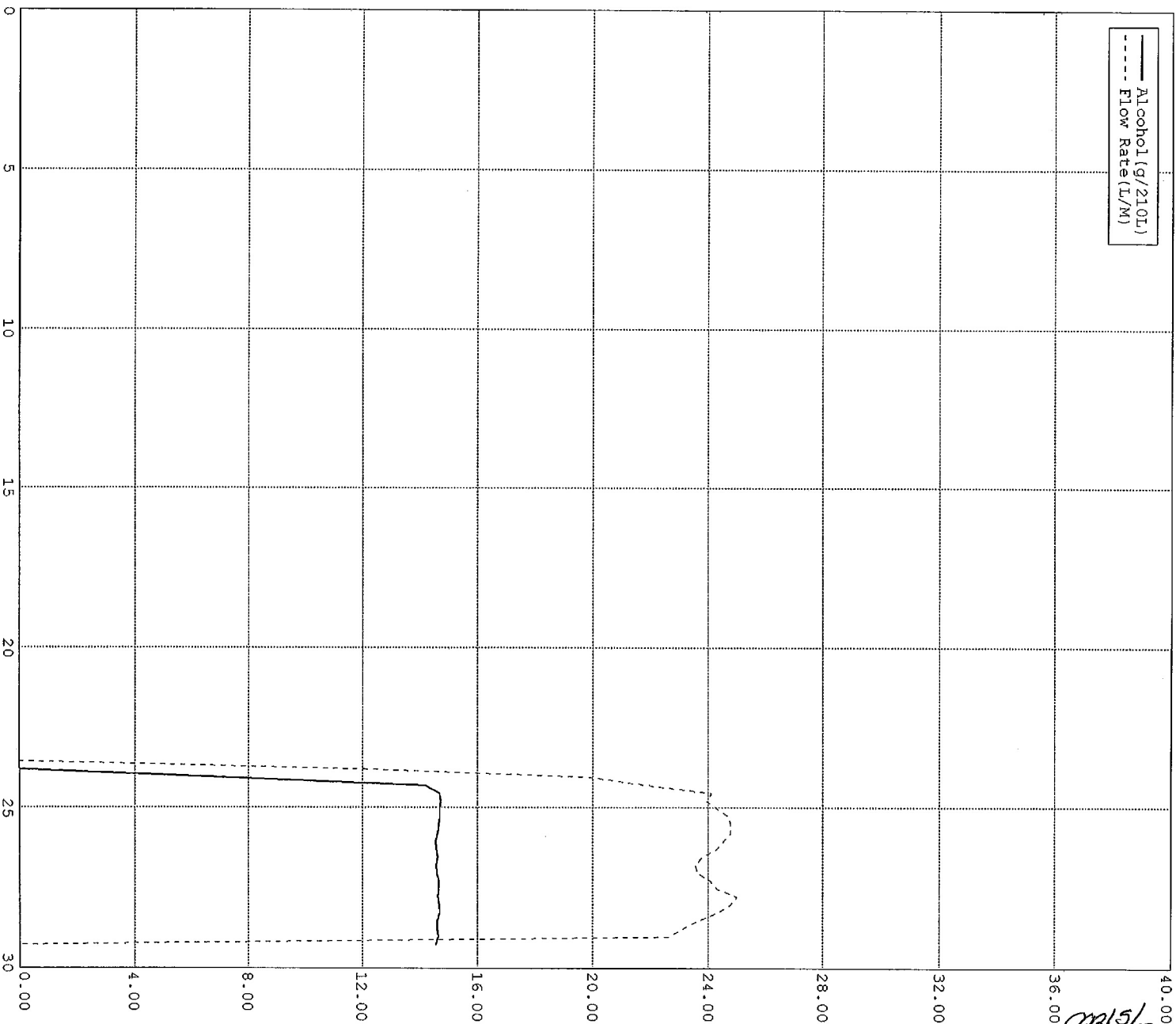
OPERATOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.079
 LOT #: 0251080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:52
BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:52
Xq = 0.088 (0.20%)		
EXTERNAL STANDARD	0.077	14:53
X[1] = 0.0776 (0.0004)	(0.0024)	
BLANK TEST	0.000	14:54
SUBJECT SAMPLE	INTERFERENCE	14:54
X[1] = 0.0734 (-0.0128)	(-0.0004)	

CB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100676

Date: 05/14/2012
 Time: 14:57:13

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

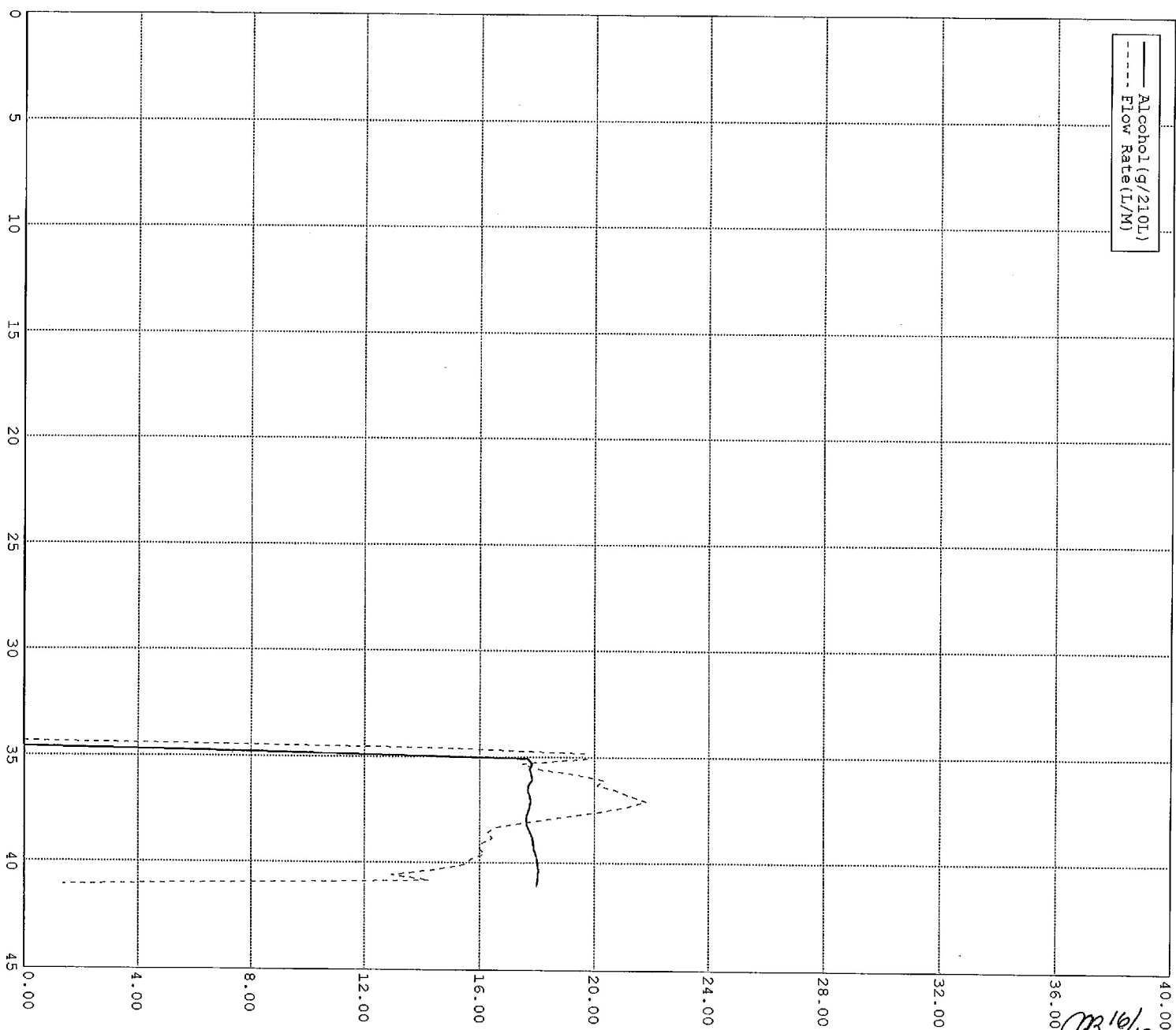
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:58
BLANK TEST	0.000	14:58
INTERNAL STANDARD	VERIFIED	14:58
Xq = 0.088 (0.40%)		
EXTERNAL STANDARD	0.077	14:59
X[1] = 0.0776 (0.0002)	(0.0020)	
BLANK TEST	0.000	15:00
SUBJECT SAMPLE	INTERFERENCE	15:00
X[1] = 0.0905 (-0.0248)	(0.0003)	

CRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100676Date: 05/14/2012
Time: 15:03:14SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

BLANK TEST PASSED 15:07
INTERNAL STANDARD VERIFIED 15:08

Xq = 0.088 (0.00%)

EXTERNAL STANDARD 0.077 15:08
X[1] = 0.0777 (0.0003) (0.0019)BLANK TEST 0.000 15:09
SUBJECT SAMPLE (Vol=2.19L) 0.089 15:10

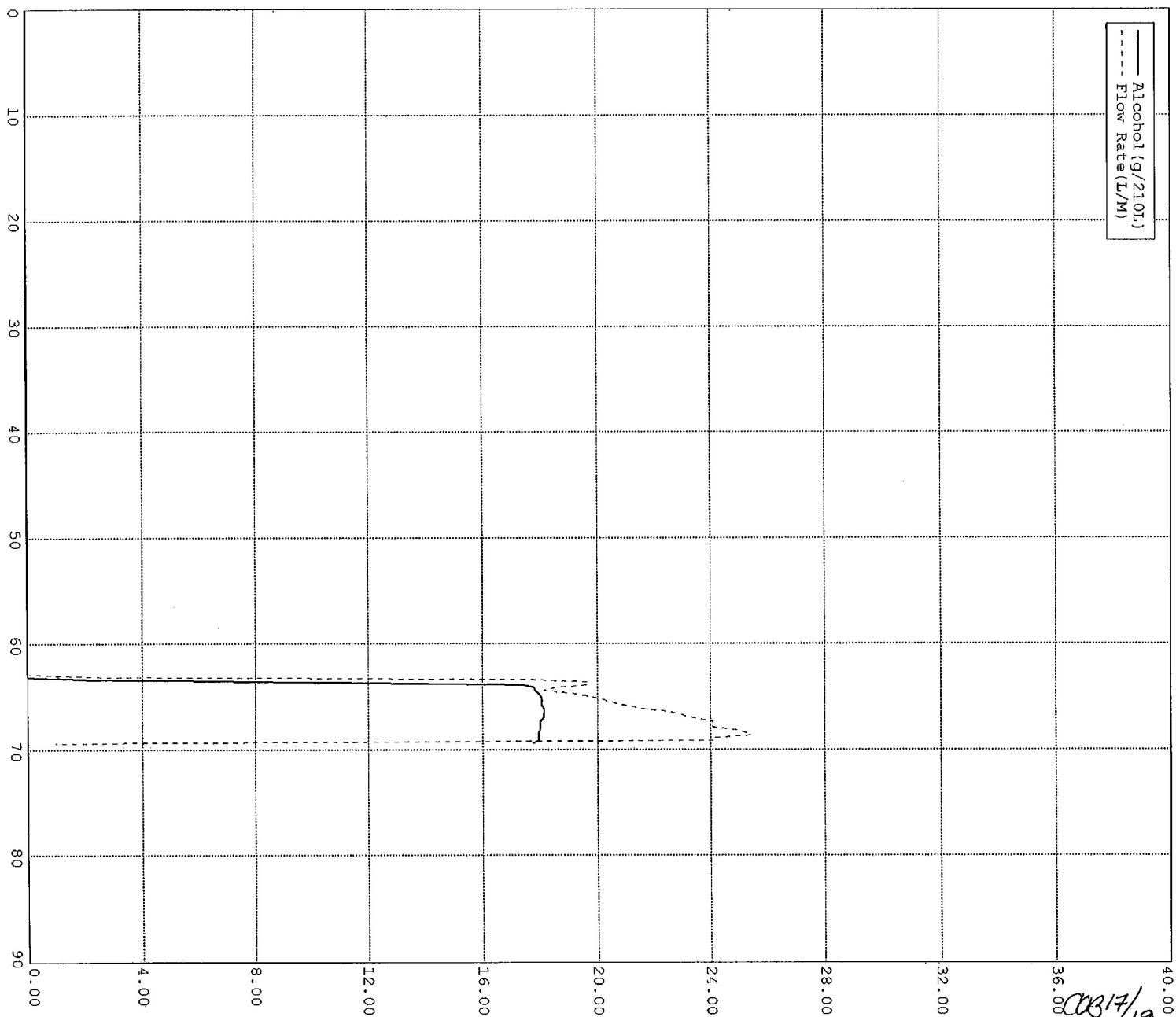
X[1] = 0.0892 (-0.0005) (-0.0003)

BLANK TEST 0.000 15:11

EXTERNAL STANDARD 0.077 15:11
X[1] = 0.0774 (-0.0003) (0.0012)

BLANK TEST 0.000 15:12

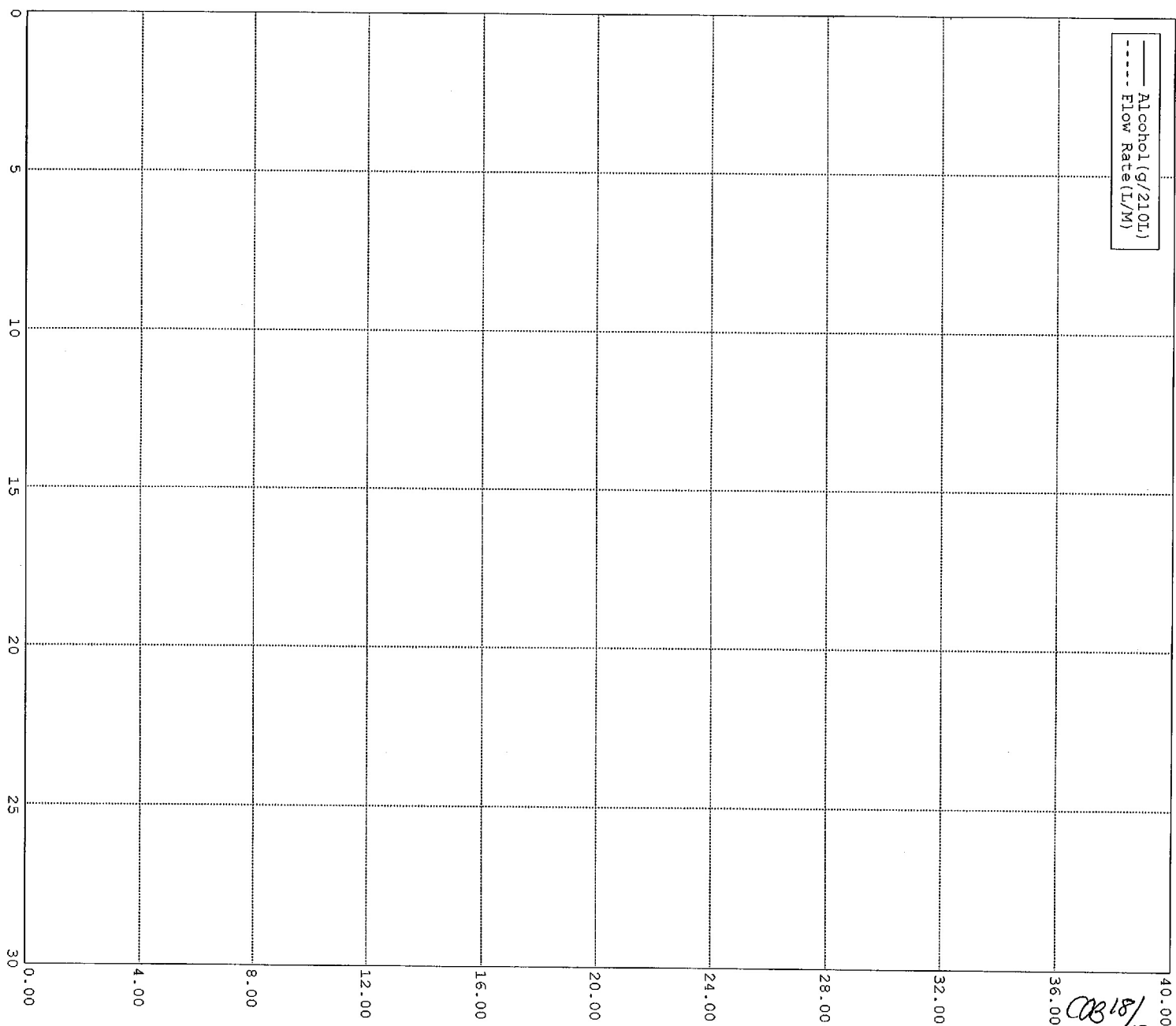
MS



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100676Date: 05/14/2012
Time: 15:18:22SUBJECT NAME:
TEST TEST
LICENSE #: RFIOPERATOR NAME:
COLLEEN S. OBRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 15:20
INTERNAL STANDARD VERIFIED 15:20
EXTERNAL STANDARD 0.078 15:20
BLANK TEST 0.000 15:21

RFI DETECTED

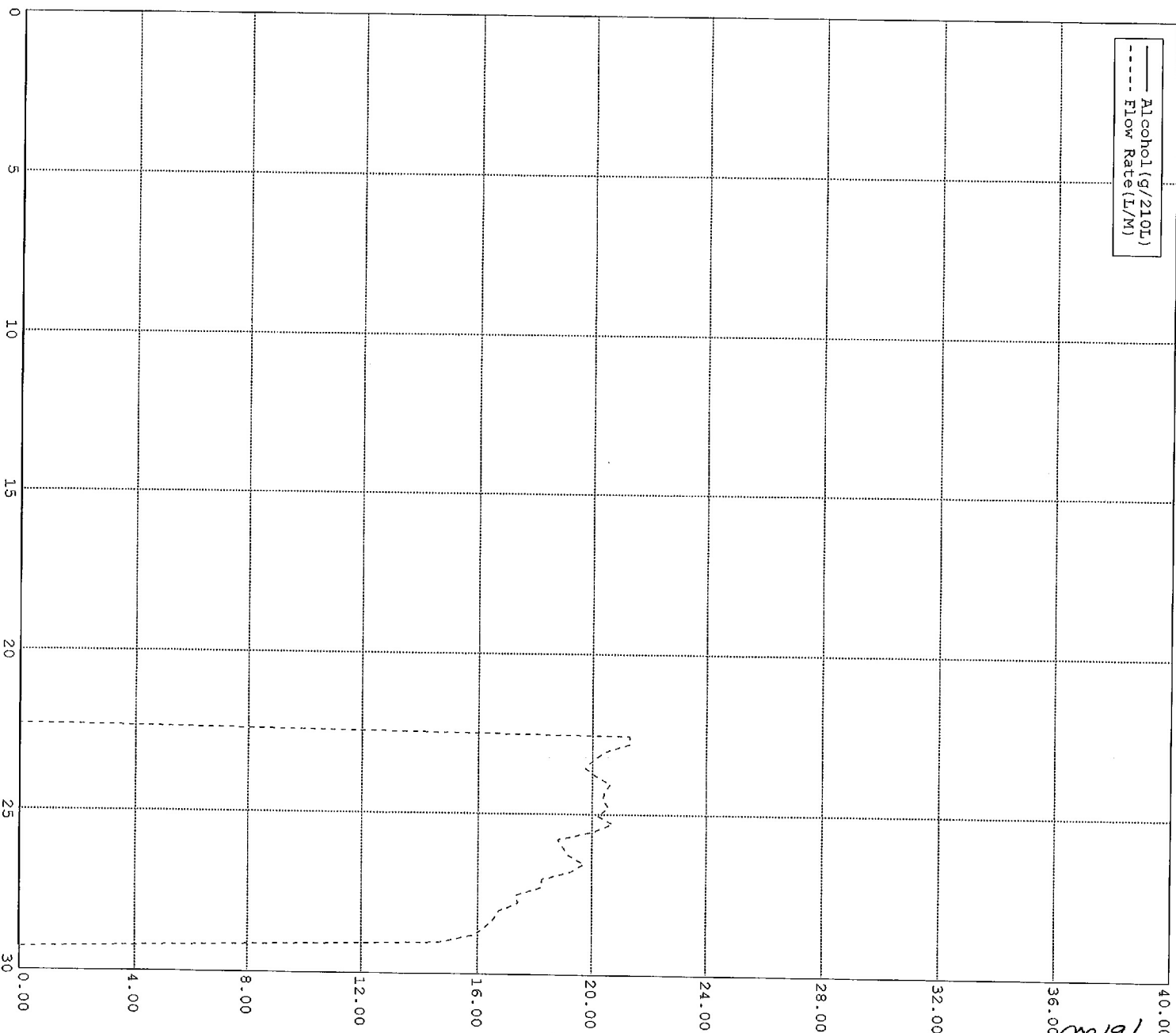


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100676Date: 05/15/2012
Time: 07:38:52SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKINGOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAA1CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.13: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	07:40
BLANK TEST	0.000	07:40
INTERNAL STANDARD	VERIFIED	07:40
EXTERNAL STANDARD	0.078	07:41
BLANK TEST	0.000	07:42
SUBJECT SAMPLE	0.000	07:42
BLANK TEST	0.000	07:43
EXTERNAL STANDARD	0.078	07:43
BLANK TEST	0.000	07:44

CAB



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Final page for report

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11/19/2013