

## Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Issued: 04/04/2012  
Effective: 04/04/2012Version: DMCEF2012 R1  
Status: ActiveInstrument S/N 100415 Analyst C. O'Bryant Start Date 4/5/12  
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 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 07511080A1 Exp 03/01/2013iv. 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 10/11/20131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/121. Simulator S/N DR6267 Date Calibrated 01/10/2012iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/06/20131. 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 4/5/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety  
DATAMASTER dmt: 100415

Date: 04/05/2012  
Time: 10:33:08

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED  
Breath Tube = 48.0°C PASSED

PUMP INFO

Flow Rate = 5.431 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

COB 9/12

Technician Screen

-----  
DATAMASTER dnt: 100415  
-----

Date: 04/05/2012  
Time: 10:12 AM

Temperatures (°C)

Sample Cell: 48.9°C  
Breath Tube: 46.8°C

Current Barometer: 29.8 in  
Volume (Ltr) 1.48

Settings

Lamp: 1.73 V  
Bias: 78 V  
Cooler: 1.71 V  
Chopper: 527 Hz

Voltages (V)

Flow: 1.06 V  
Detector: -0.020 V

0033/19

CALIBRATION FACTORS

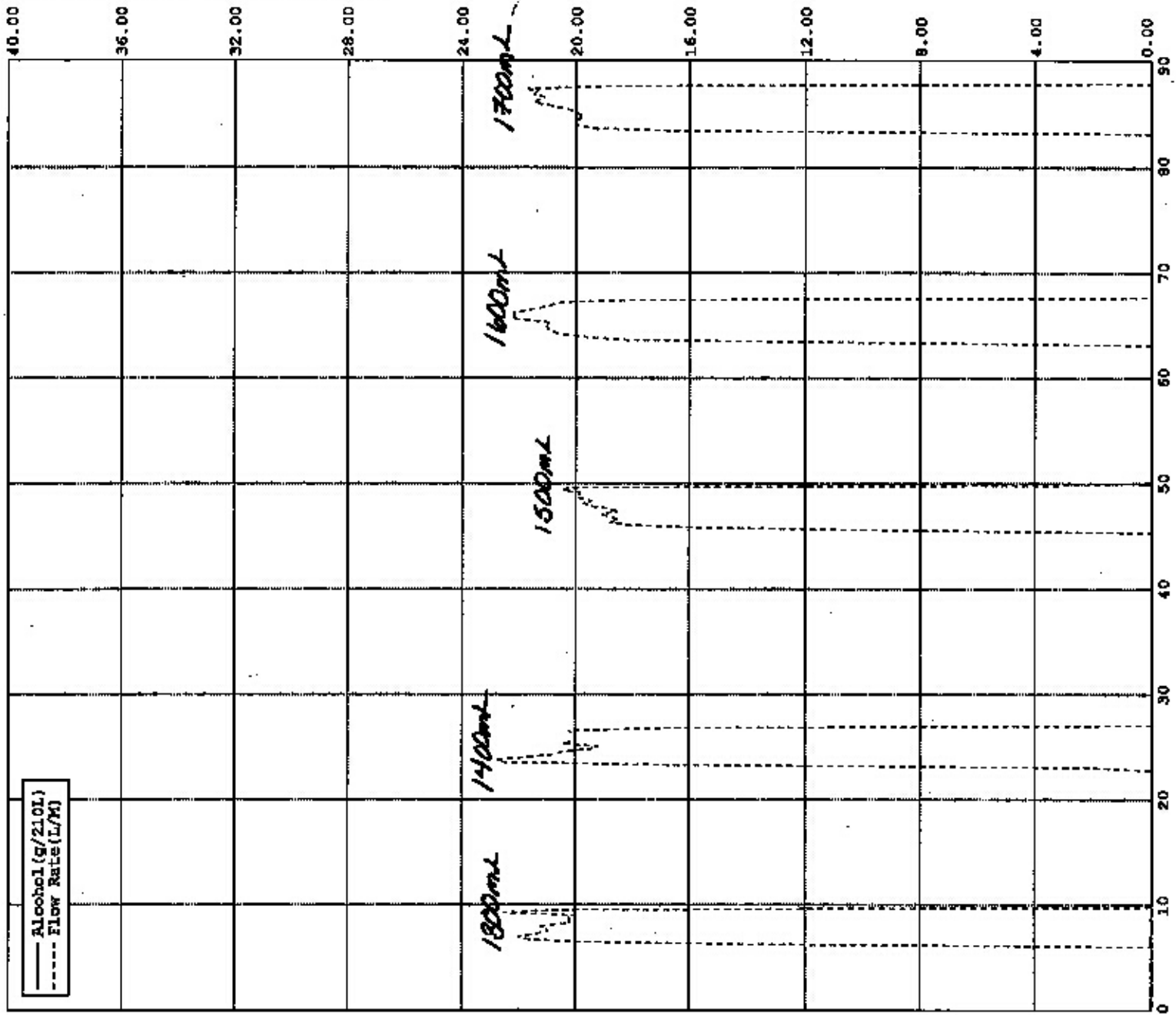
-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100415  
-----

Date: 06/02/2011  
Time: 07:25:35

OPERATOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

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

Ca	=	0.1000		
CAL	=	1.001237	0.800	<= CAL < 1.200
b1	=	0.0006	0.0000	<= b1 < 0.0040
b2	=	0.0044	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Kq	=	0.0970	0.0500	<= Kq < 0.2000
a21	=	1.190899	1.050	<= a21 < 1.300
a31	=	0.428205	0.300	<= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety  
 DATASYS dnt: 100415

Date: 04/05/2012  
 Time: 11:05:50

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: VOLUME TEST

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

DEPT/AGENCY:  
 AAA1

CASE/REPORT: 12-1234  
 TEST TYPE: TEST

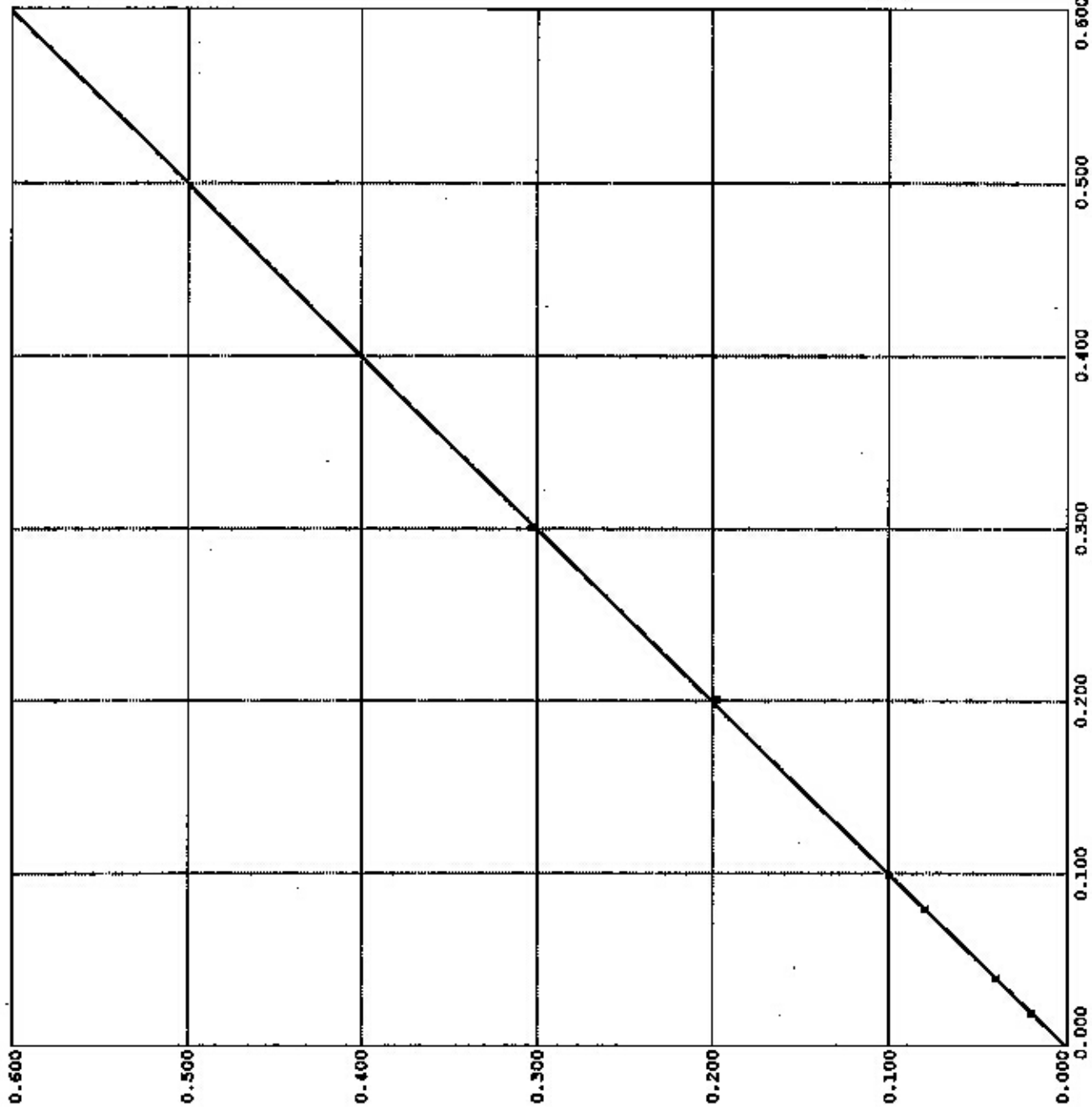
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 25.85: 0.079  
 LOT #: 07511080AL  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:07
BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:07
EXTERNAL STANDARD	0.080	11:07
BLANK TEST	0.000	11:08
SUBJECT SAMPLE	0.000	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.081	11:11
BLANK TEST	0.000	11:12

CAB

CAB 5/19



LINEARITY CHECK	
Alaska Department of Public Safety	
DATA MASTER dmt: 100415	
Date: 04/05/2012	
Time: 11:15:22	
SUPERVISOR NAME:	
COLLEEN S O'BRYANT	
OPERATOR'S #: 6237	
TARGET	STD. DEV.
0.019	0.0003
0.039	0.0003
0.079	0.0001
0.099	0.0004
0.200	0.0005
0.300	0.0008
SLOPE	= 1.000422
R <sup>2</sup>	= 0.999746

*COB*

*COB 6/19*

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100415

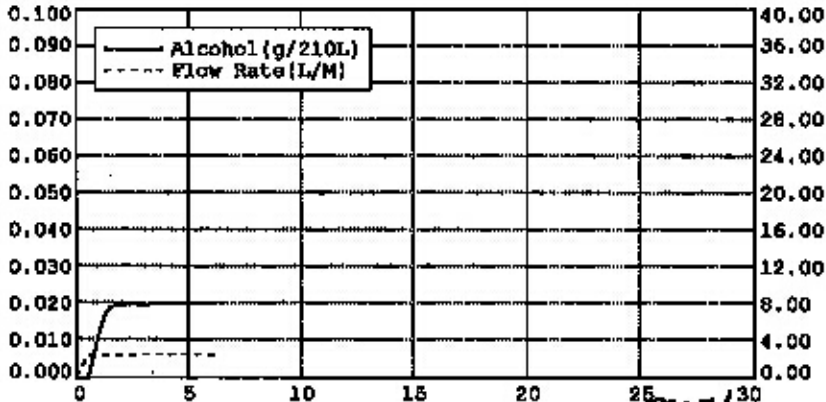
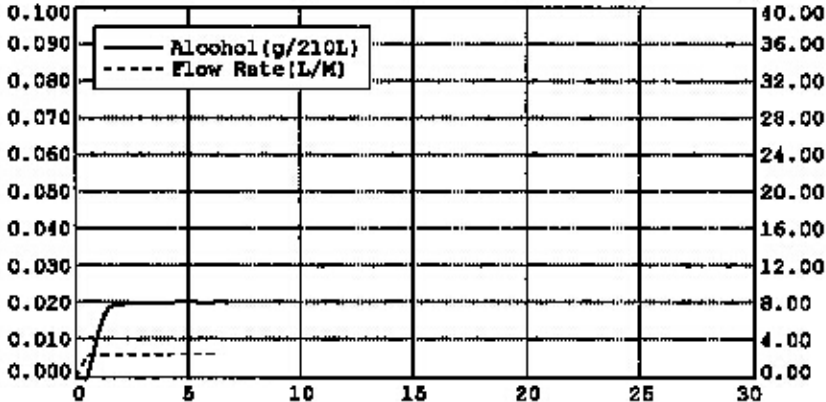
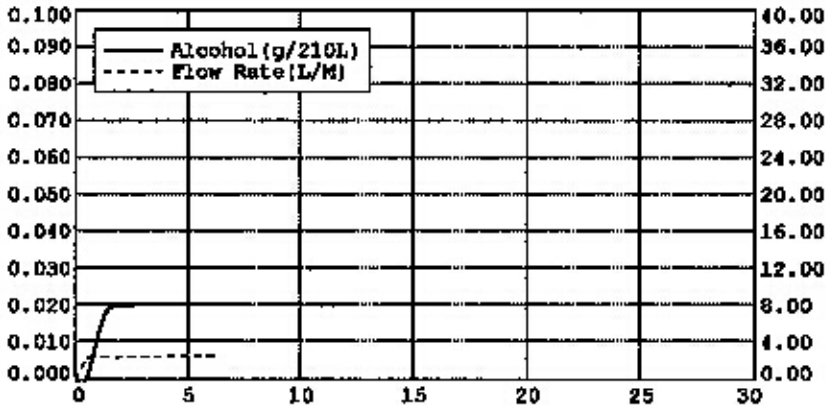
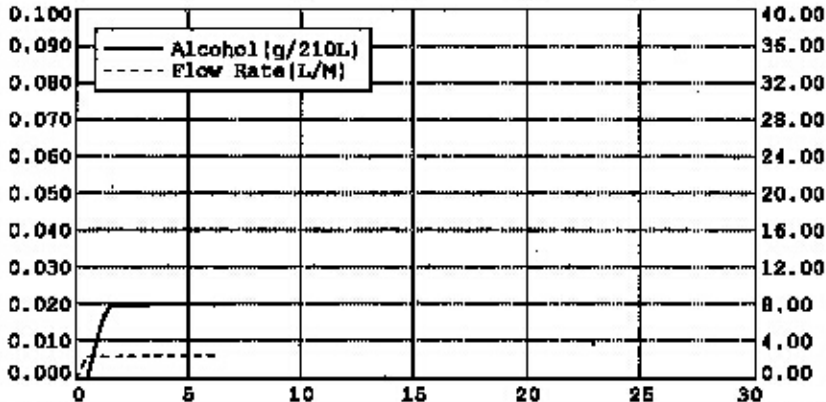
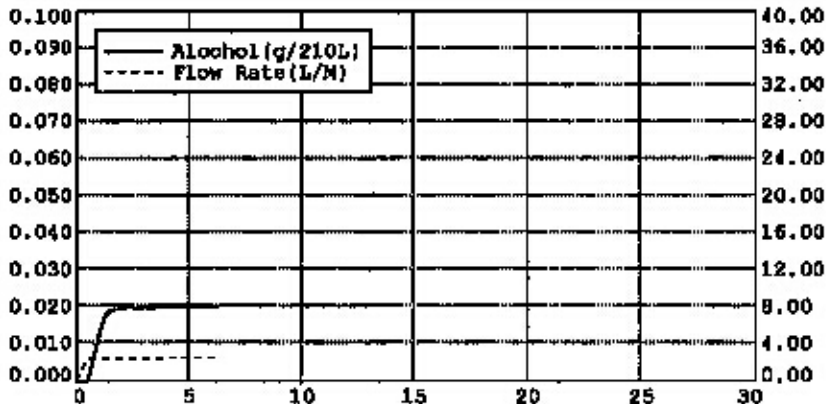
Date: 04/05/2012  
 Time: 11:15:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.85: 0.019  
 LOT #: 07611020A5  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:16
EXTERNAL STANDARD	0.020	11:17
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.021	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.021	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.021	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.020	11:21
BLANK TEST	0.000	11:22

Average = 0.0210  
 Std Dev = 0.0003



## LINEARITY CHECK: Control Test 2

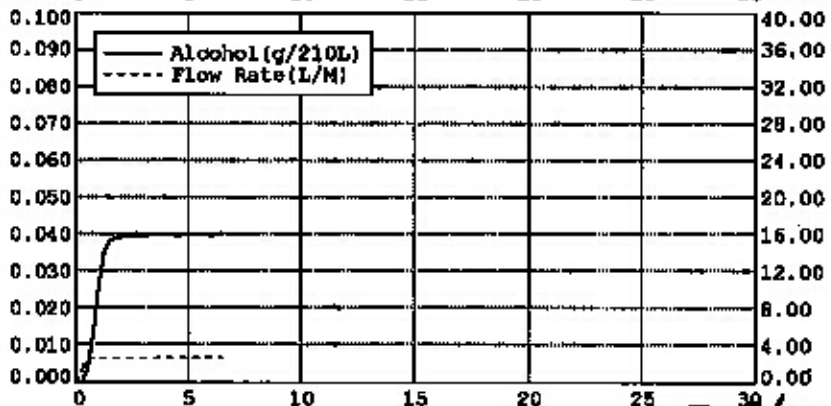
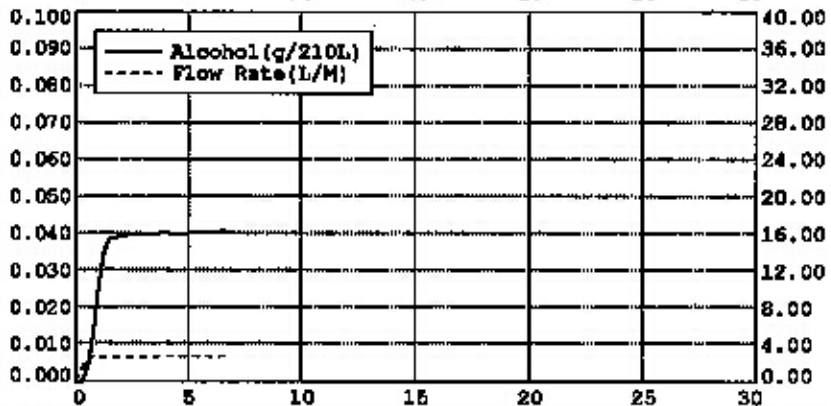
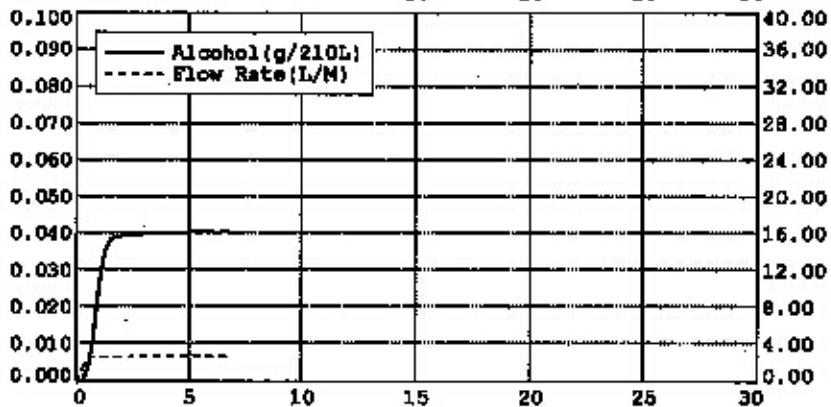
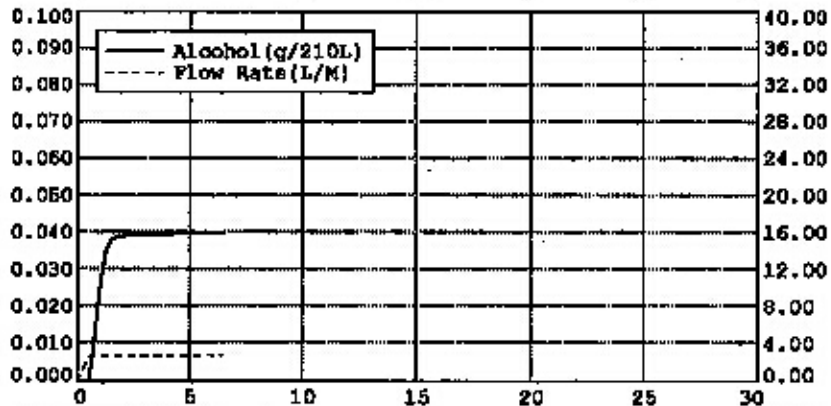
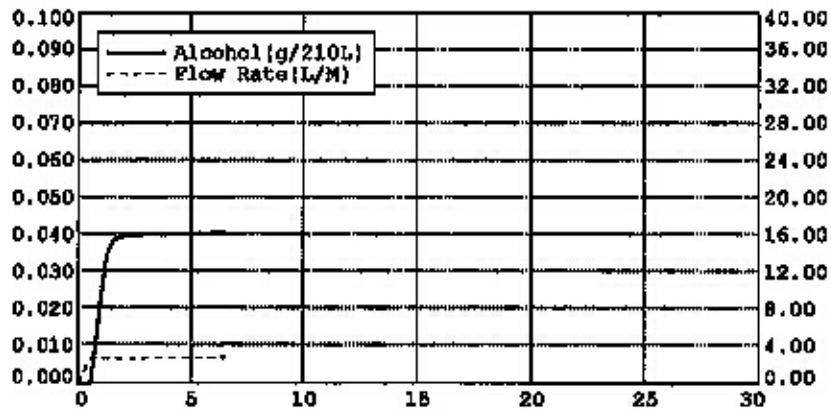
Alaska Department of Public Safety  
 DATAMASTER dnt: 100415

Date: 04/05/2012  
 Time: 11:23:43

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.040  
 TARGET AT 29.85: 0.039  
 LOT #: 07611040A4  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:25
INTERNAL STANDARD	VERIFIED	11:25
EXTERNAL STANDARD	0.041	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.040	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.041	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.041	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.040	11:30
BLANK TEST	0.000	11:31

Average = 0.0410  
 Std Dev = 0.0003





## LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100415

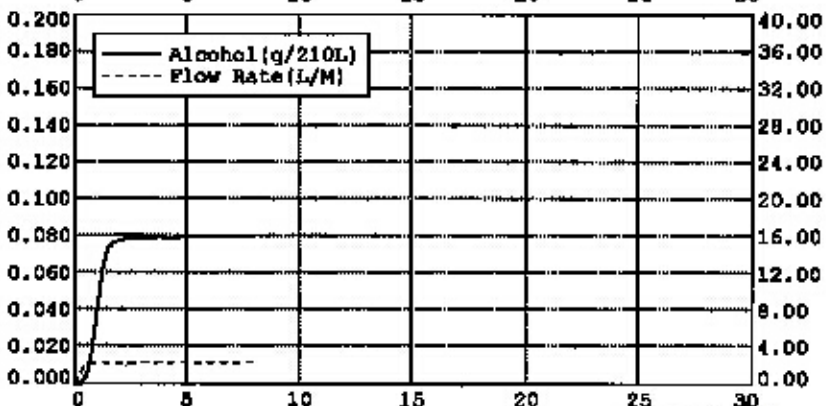
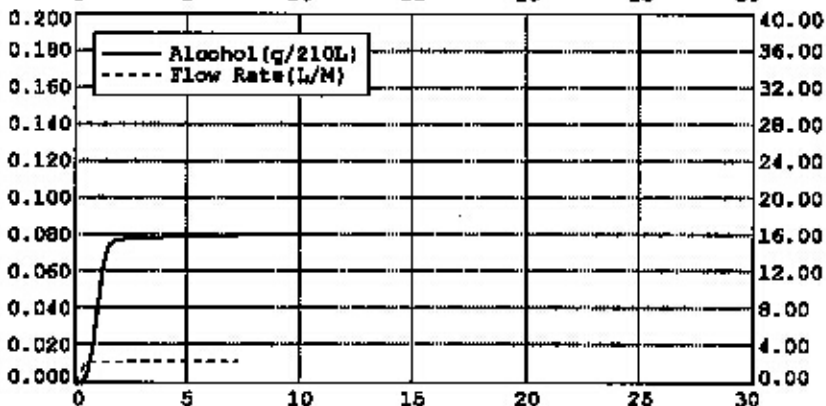
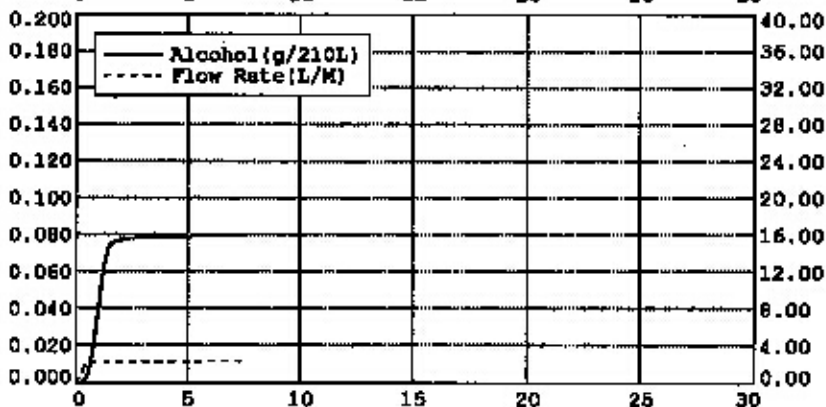
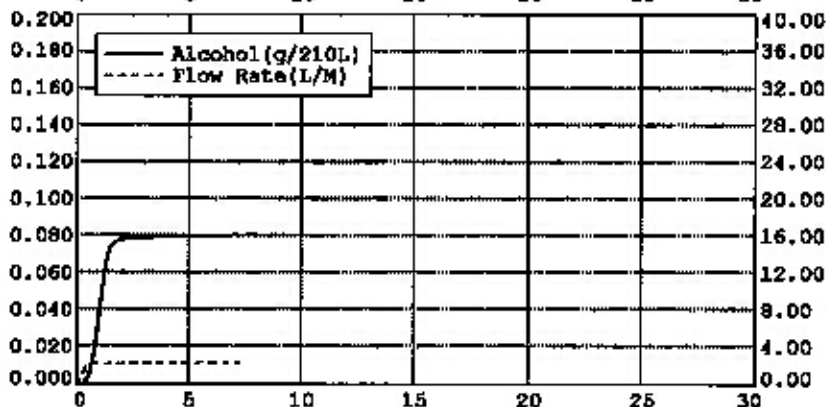
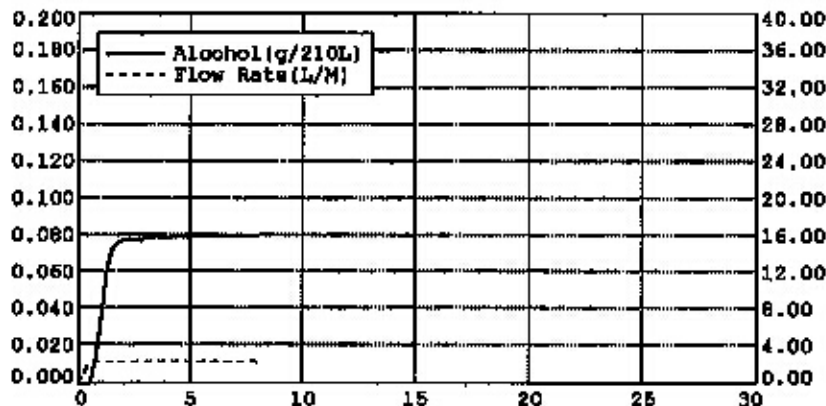
Date: 04/05/2012  
Time: 11:32:14

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.86: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:33
INTERNAL STANDARD	VERIFIED	11:33
EXTERNAL STANDARD	0.080	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.080	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.080	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.080	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.080	11:38
BLANK TEST	0.000	11:39

Average = 0.0805  
Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATANMASTER dnt: 100415

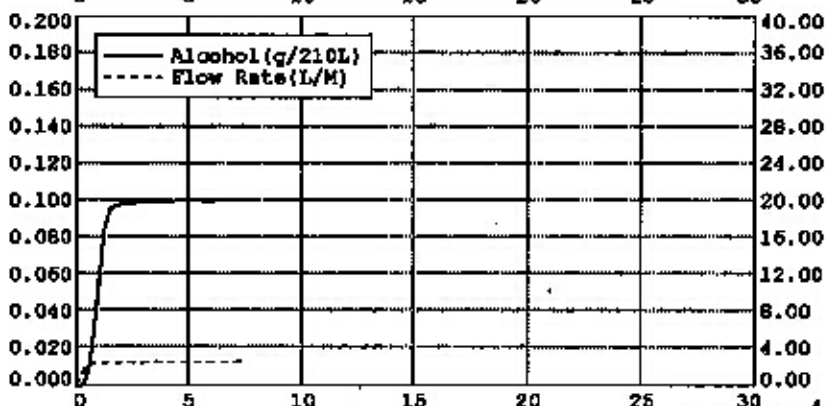
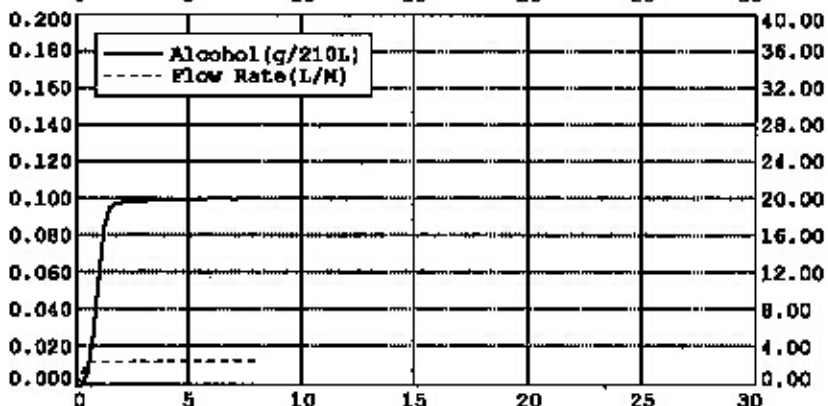
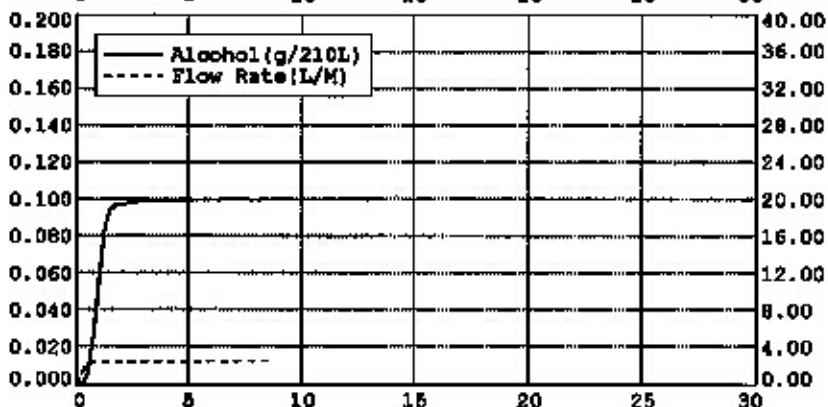
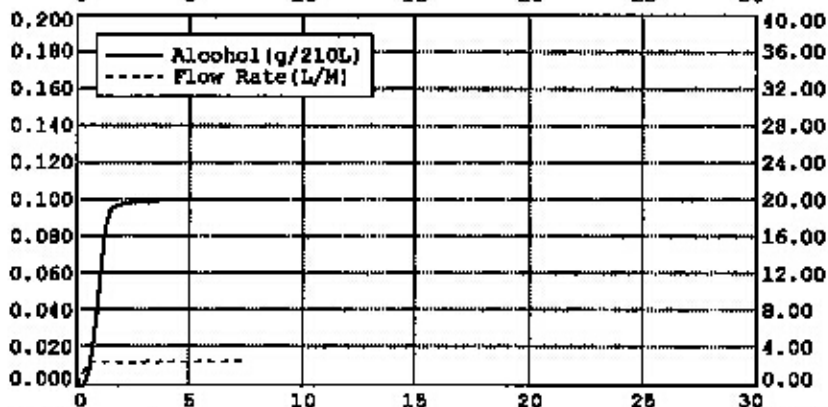
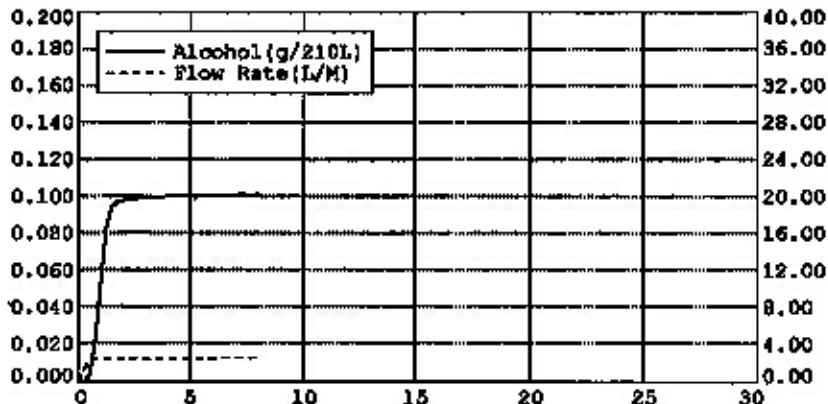
Date: 04/05/2012  
 Time: 11:40:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.87: 0.099  
 LOT #: 07611100A3  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:41
INTERNAL STANDARD	VERIFIED	11:42
EXTERNAL STANDARD	0.101	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.101	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.101	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.101	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.100	11:47
BLANK TEST	0.000	11:47

Average = 0.1012  
 Std Dev = 0.0004



## LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
 DATAMASTER dnt: 100415

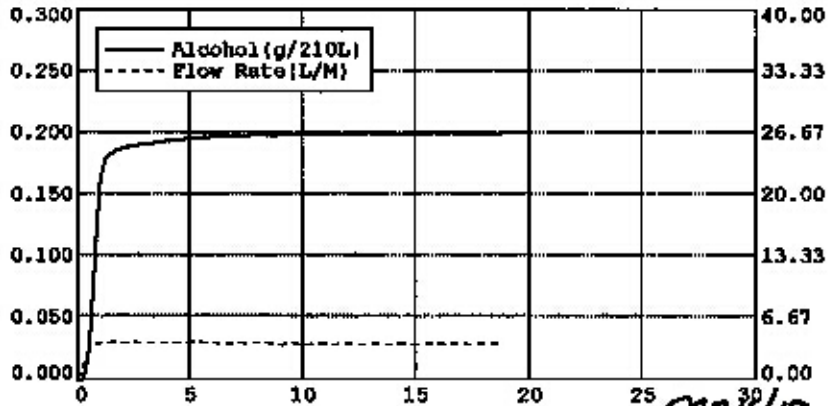
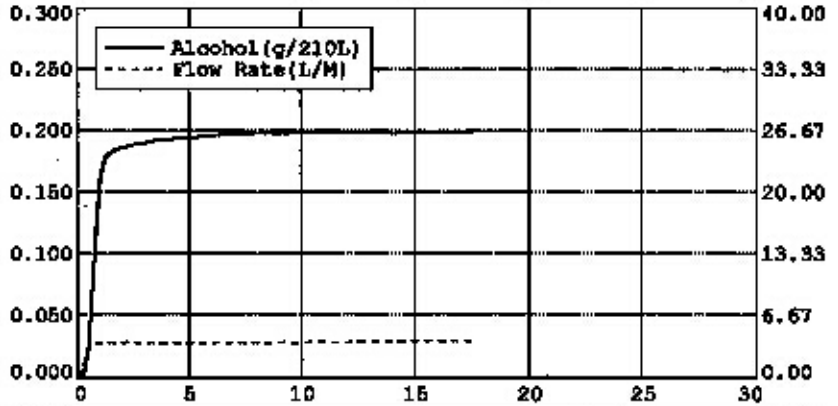
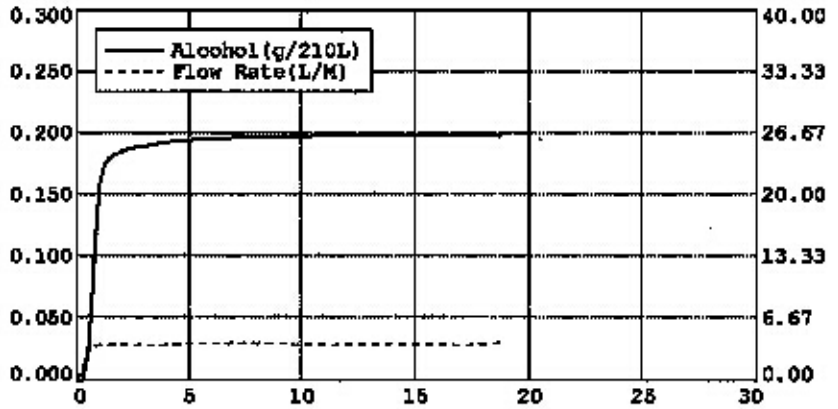
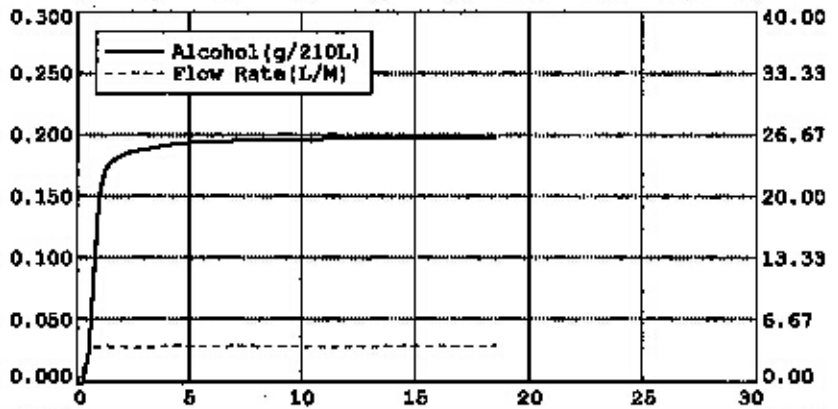
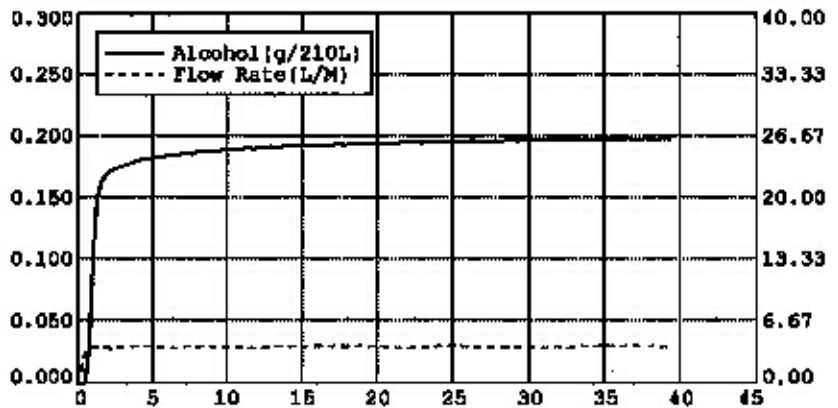
Date: 04/05/2012  
 Time: 11:48:21

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
 LOT #: 11120  
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	11:49
INTERNAL STANDARD	VERIFIED	11:49
EXTERNAL STANDARD	0.197	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.198	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.198	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.198	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.199	11:55
BLANK TEST	0.000	11:56

Average = 0.1984  
 Std Dev = 0.0005



## LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
DATAMASTER dnt: 100415

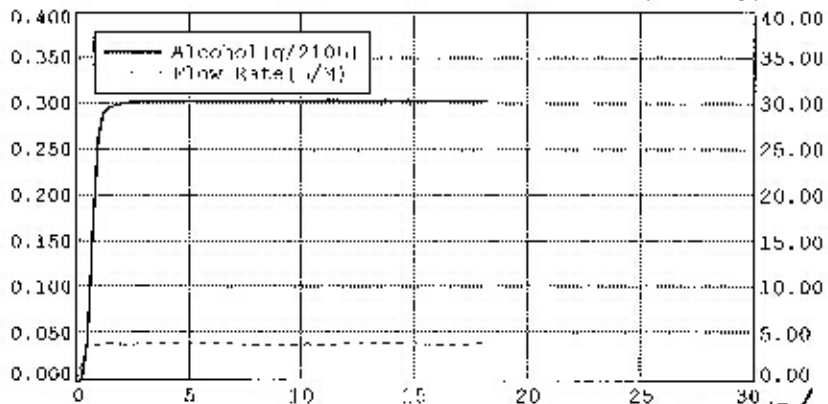
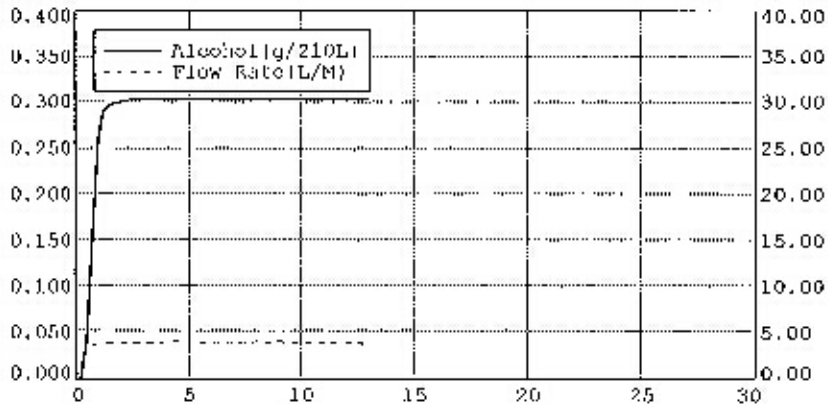
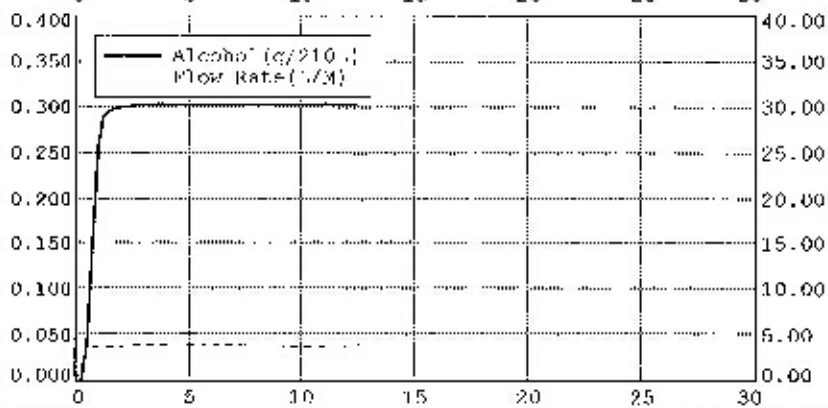
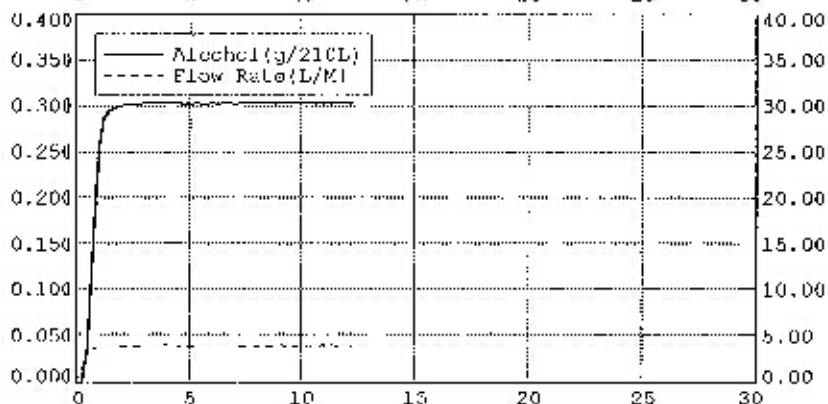
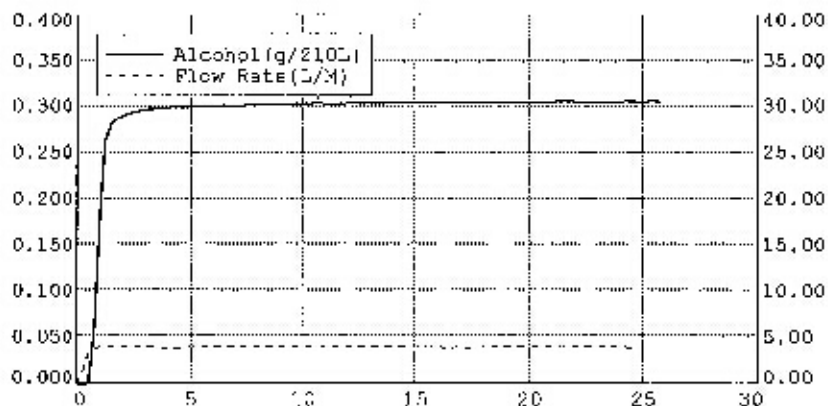
Date: 04/05/2012  
Time: 12:00:31

## EXTERNAL STANDARD INFORMATION

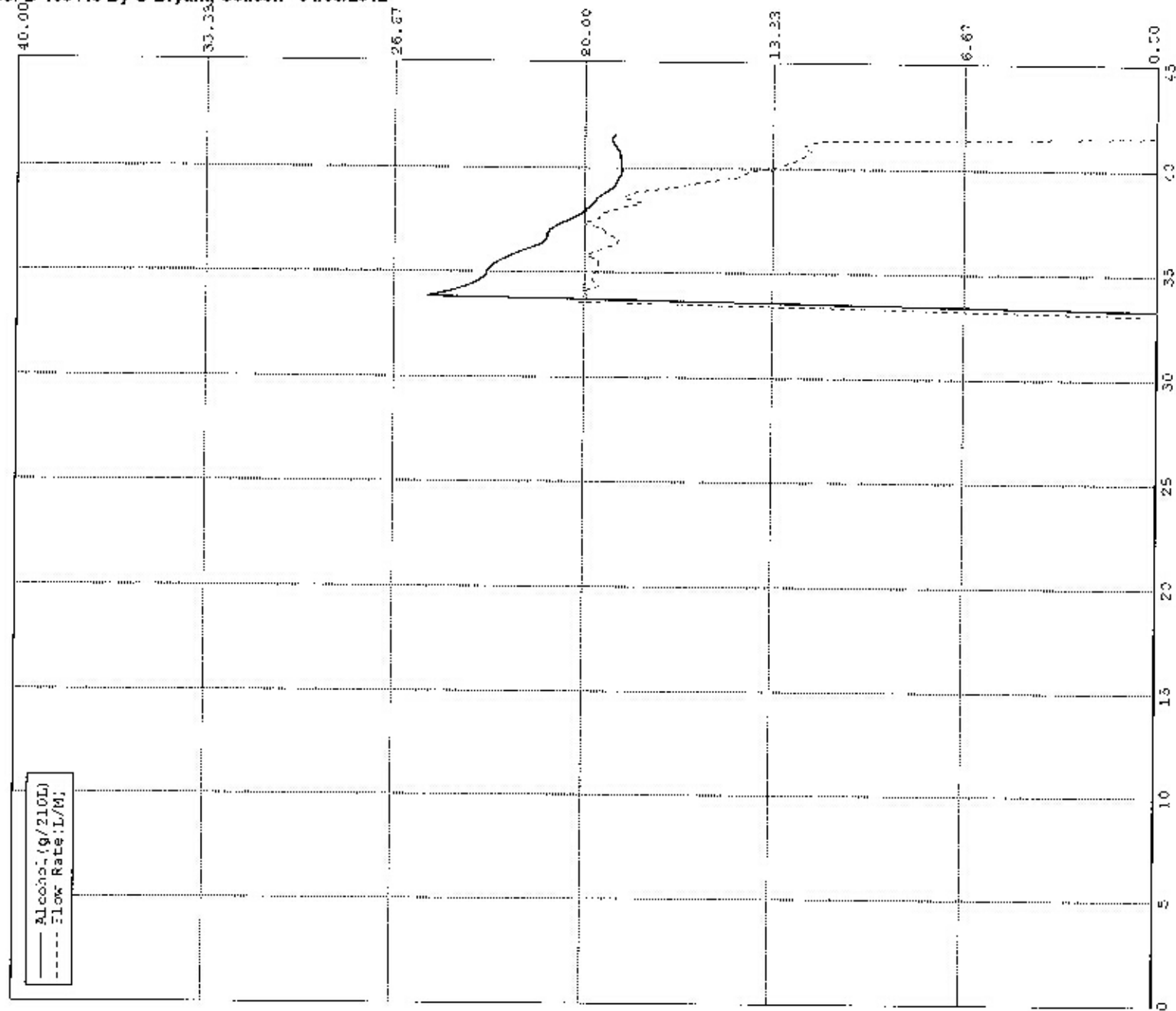
NOMINAL: 0.300  
LOT #: 11110  
EXPIRATION: 07/13/2013

BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:01
EXTERNAL STANDARD	0.304	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.302	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.303	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.303	12:05
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.303	12:07
BLANK TEST	0.000	12:08

Average = 0.3036  
Std Dev = 0.0008







**SUBJECT TEST**

-----  
 Alaska Department of Public Safety  
 DATAMASTER Unit: 100415  
 -----  
 Date: 04/05/2012  
 Time: 12:41:15

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** INVALID

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

**DEPT/AGENCY:**  
 AAAA

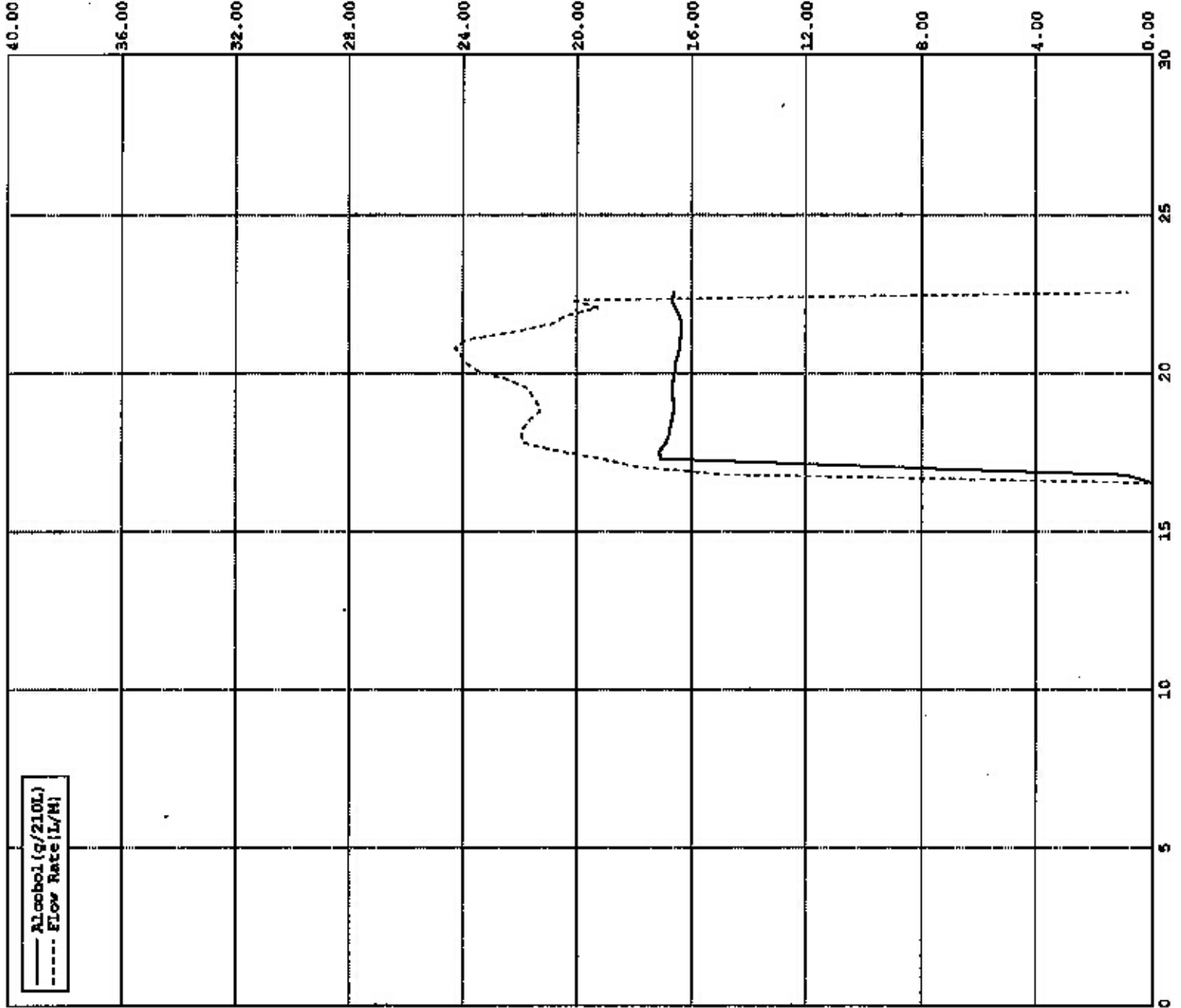
**CASE/REPORT:** 12-1234  
**TEST TYPE:** TEST

**EXTERNAL STANDARD INFORMATION**  
 NOMINAL: 0.080  
 TARGET AT 29.88: 0.079  
 LOT #: 07521080A1  
 EXPIRATION: 03/01/2013

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	12:46
BLANK TEST	0.000	12:46
INTERNAL STANDARD	VERIFIED	12:46
EXTERNAL STANDARD	0.080	12:46
BLANK TEST	0.000	12:47
SUBJECT SAMPLE	INVALID	12:48

*COB*

*COB 4/19*



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATA MASTER dmt: 100415

Date: 04/05/2012  
 Time: 12:53:21

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** INT-ACETONE

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

**DEPT/AGENCY:**  
 AAAI

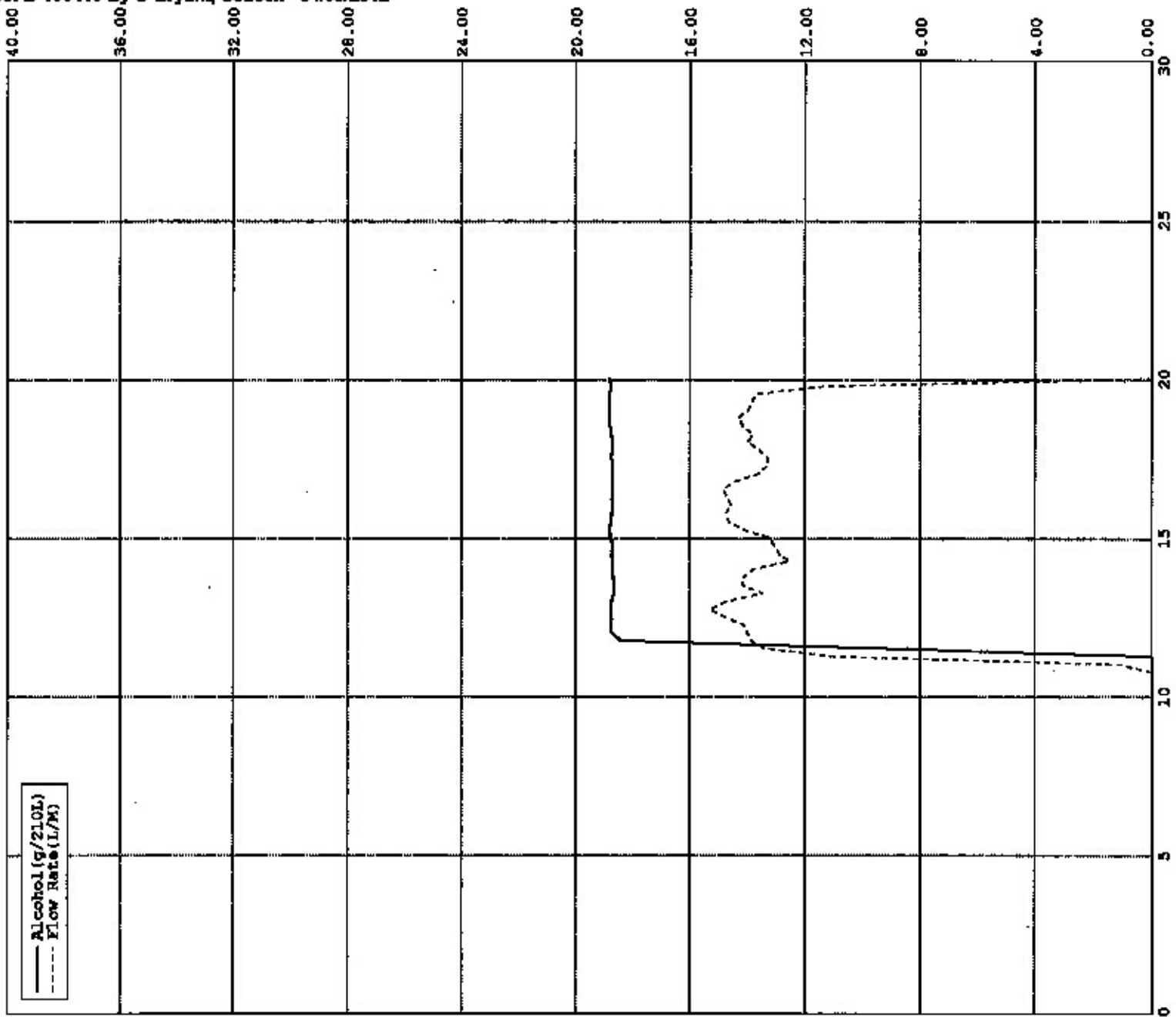
**CASE/REPORT:** 12-1234  
**TEST TYPE:** TEST

**EXTERNAL STANDARD INFORMATION**  
 NOMINAL: 0.080  
 TARGET AT 29.88: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

**DIAGNOSTIC CHECK** PASSED 12:57  
**BLANK TEST** 0.000 12:57  
**INTERNAL STANDARD** VERIFIED 12:57  
 Xg = 0.097 (0.18%)  
**EXTERNAL STANDARD** 0.080 12:58  
 X[1] = 0.0806 (-0.0003) (0.0027)  
**BLANK TEST** 0.000 12:59  
**SUBJECT SAMPLE INTERFERENCE** 12:59  
 X[1] = 0.0838 (-0.0121) (0.0010)

*CAB*

*04/15/12*



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAGASTER dmt: 100415

Date: 04/05/2012  
 Time: 13:25:35

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INT-IPA

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

DEPT/AGENCY:  
 AAAA

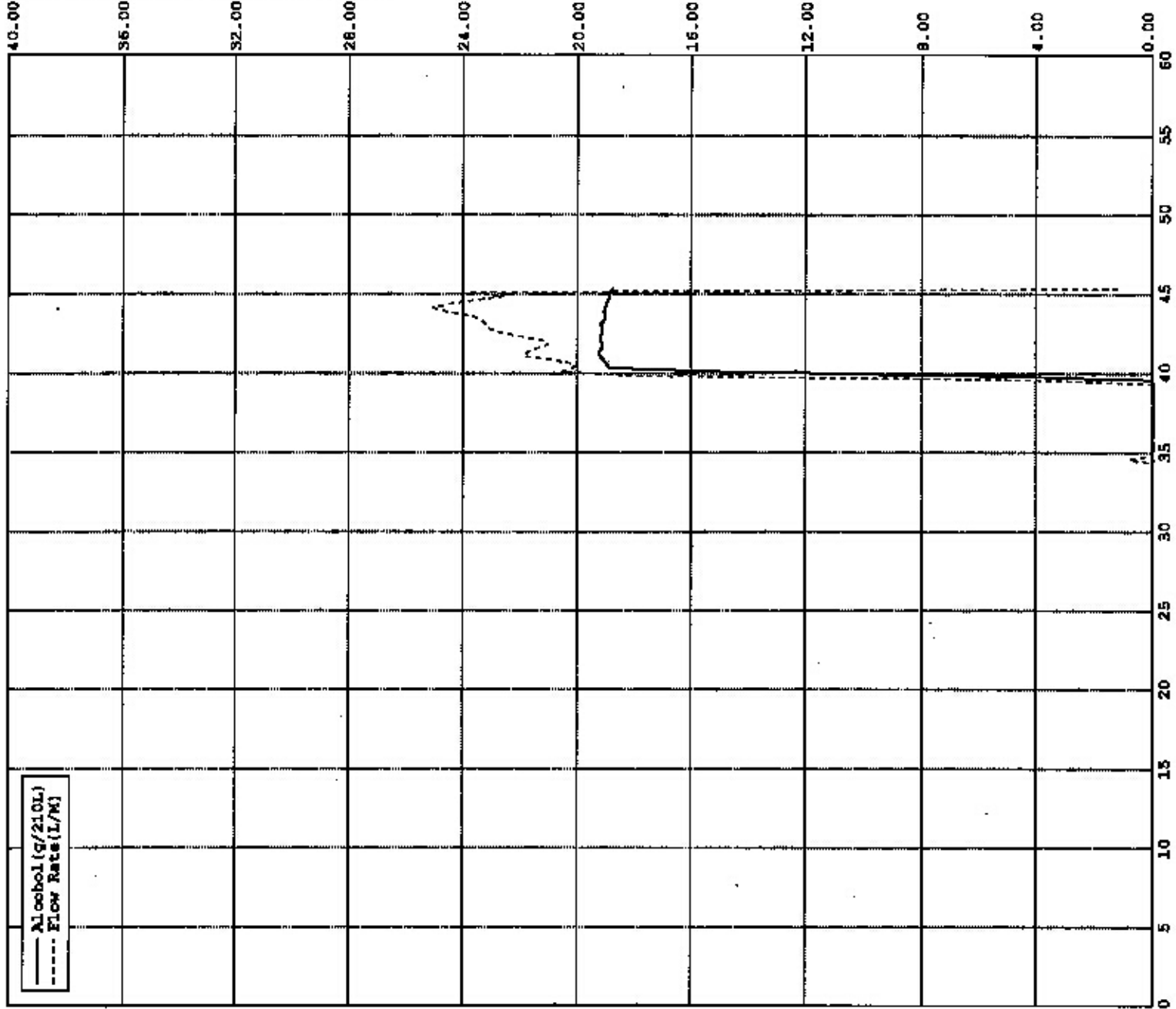
CASE/REPORT: 12-1234  
 TEST TYPE: TEST

**EXTERNAL STANDARD INFORMATION**  
 NOMINAL: 0.080  
 TARGET AT 29.68: 0.079  
 LOT #: 07511080AL  
 EXPIRATION: 03/01/2013

**DIAGNOSTIC CHECK** PASSED 13:28  
 BLANK TEST 0.000 13:28  
 INTERNAL STANDARD VERIFIED 13:28  
 Xq = 0.097 (0.45%) 0.080 13:28  
 EXTERNAL STANDARD X[L] = 0.0803 (-0.0005) (0.0039)  
 BLANK TEST 0.000 13:29  
 SUBJECT SAMPLE INTERFERENCE X[L] = 0.0943 (-0.0282) (0.0032) 13:30

CUB  
 04/16/12





**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER Unit: 100415

Date: 04/05/2012  
 Time: 13:03:34

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** MEG CONTROL

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

**DEPT/AGENCY:**  
 AAAA

**CASE/REPORT:** 12-1234  
**TEST TYPE:** TEST

**EXTERNAL STANDARD INFORMATION**  
 NOMINAL: 0.080  
 TARGET AT 29.88: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	13:08
BLANK TEST	0.000	13:09
INTERNAL STANDARD	VERIFIED	13:09
Xq = 0.096 (9.63%)	0.080	13:09
EXTERNAL STANDARD	0.080	13:10
X[1] = 0.0808 (-0.0004)	(0.0025)	13:10
BLANK TEST	0.000	13:11
SUBJECT SAMPLE (Vol=2.06L)	0.094	13:11
X[1] = 0.0941 (-0.0010)	(0.0012)	13:12
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.080	13:12
X[1] = 0.0800 (-0.0003)	(0.0022)	13:13
BLANK TEST	0.000	13:13

CSB  
0037/27

Alcohol (g/210L) Flow Rate (L/M)	0	5	10	15	20	25	30
40.00							
36.00							
32.00							
28.00							
24.00							
20.00							
16.00							
12.00							
8.00							
4.00							
0.00							

SUBJECT TEST

Alaska Department of Public Safety  
 DATA MASTER dmt: 100415

Date: 04/05/2012  
 Time: 13:32:47

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: RFI  
 OPERATOR NAME:  
 COLLEEN S OBRYANT  
 OPERATOR'S #: 6237

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

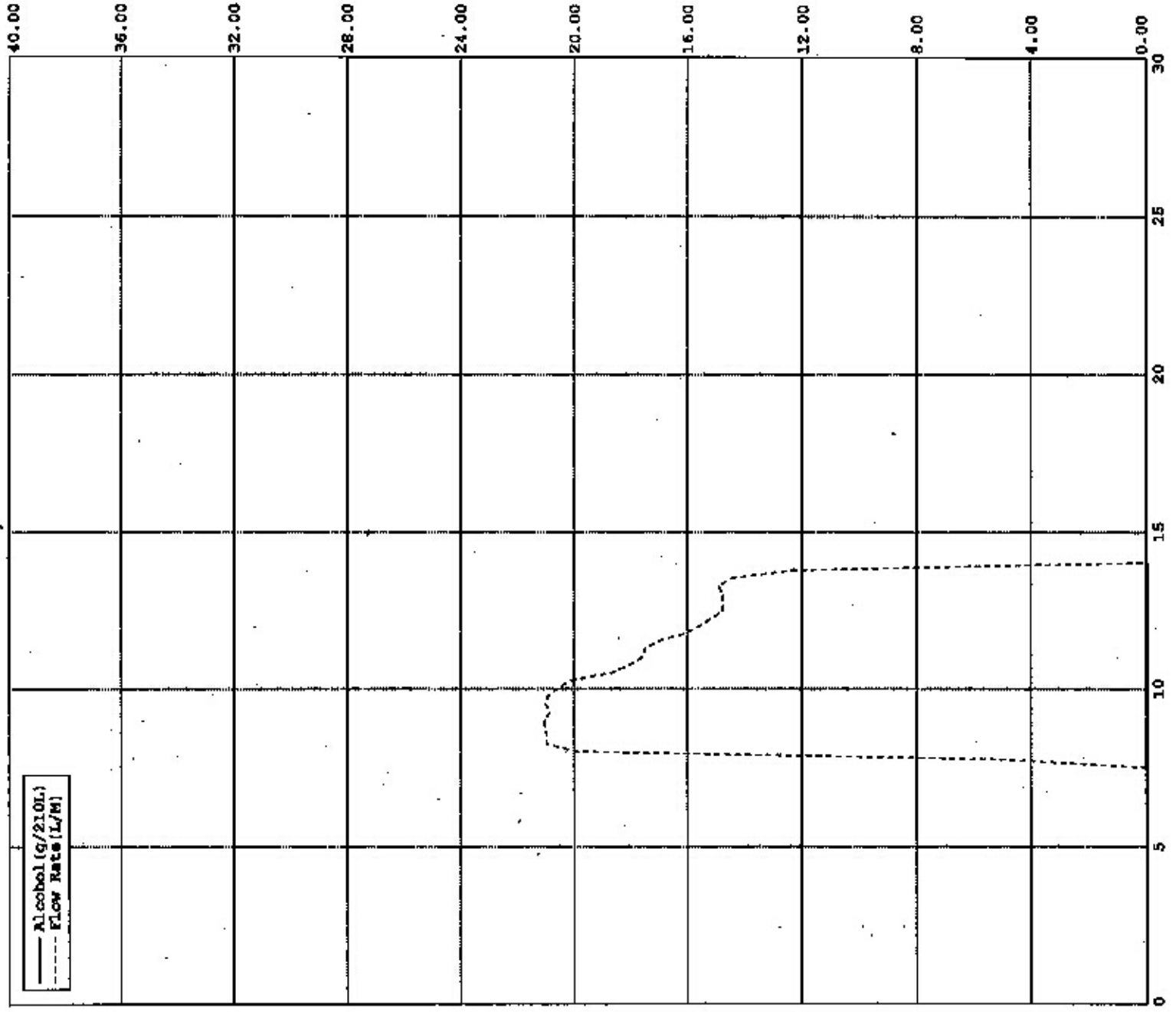
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.88: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK PASSED 13:33  
 BLANK TEST 0.000 13:33  
 INTERNAL STANDARD VERIFIED 13:34  
 EXTERNAL STANDARD 0.080 13:34  
 BLANK TEST 0.000 13:35

RFI DETECTED

04/05/12



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER dmt: 100415

Date: 04/05/2012  
 Time: 13:49:09

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: NON-DRINKING

OPERATOR NAME:  
 COLLIER S ORRYANT  
 OPERATOR'S #: 6237

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

**EXTERNAL STANDARD INFORMATION**

NOMINAL: 0.080  
 TARGET AT 29.88: 0.079  
 LOT #: 07511080AL  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:50
BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:50
EXTERNAL STANDARD	0.061	13:51
BLANK TEST	0.000	13:52
SUBJECT SAMPLE	0.000	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.060	13:53
BLANK TEST	0.000	13:54

*COB*

*COB 4/19*

Final page for report

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2/18/2014