

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 6/11/2014
Effective: 6/11/2014

Version: DMCEF 2014 R0
Status: Active

Instrument S/N 100424 Analyst Colleen O'Bryant Start Date 6/19/14

1. Diagnostic Test (attached) ☒
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp (2.6V Maximum)
 - ii. Bias
 - iii. Cooler (2.0V Maximum)
 - 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)
- iv. Chopper Frequency
- v. Detector Voltage (-0.100V to 0.100V)

3. Print Calibration Factors (attached)

4. Volume Test - Minimum 1.5 L (1.3L to 1.7L) ☒

5. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf I/mo Lot 00813020A1 Exp 3/1/15
- ii. 0.040g/210L Mnf I/mo Lot 00813040A2 Exp 3/1/15
- iii. 0.080g/210L Mnf I/mo Lot 11313080A1 Exp 6/1/15
- iv. 0.100g/210L Mnf I/mo Lot 00813100A3 Exp 3/1/15
- v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/14
 1. Simulator S/N DR4176 Date Calibrated 11/1/13
- vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15
 1. Simulator S/N DR4163 Date Calibrated 11/4/13

6. Functional Tests (attached)

- a. Incomplete ☒
- b. Invalid ☒
- c. Interference ☒

- i. Acetone - Mnf Guth Lot 12120 Level 0.200 Exp 8/10/14
 1. Simulator S/N DR4162 Date Calibrated 11/1/13
- ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 1. Simulator S/N DR6267 Date Calibrated 11/5/13
- iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 1. Simulator S/N DR4177 Date Calibrated 11/5/13

d. RFI ☒

7. Verify stylus is calibrated ☒
8. Reset Options ☒
9. Clear Memory ☒

10. Verification of Calibration ☒
11. Non-Drinking Subject Test (attached) ☒
12. Upload ☒

End Date 6/20/14

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 06/19/2014
Time: 09:47:43

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 = 3.751 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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Technician Screen

DATAMASTER dnt: 100424

Date: 06/19/2014

Time: 9:56 AM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 46.9°C

Current Barometer 29.6 in

Volume (Ltr) 1.55

Settings

Lamp: 1.62 V

Bias: 79 V

Cooler: 1.76 V

Chopper: 523 Hz

Voltages (V)

Flow: 1.04 V

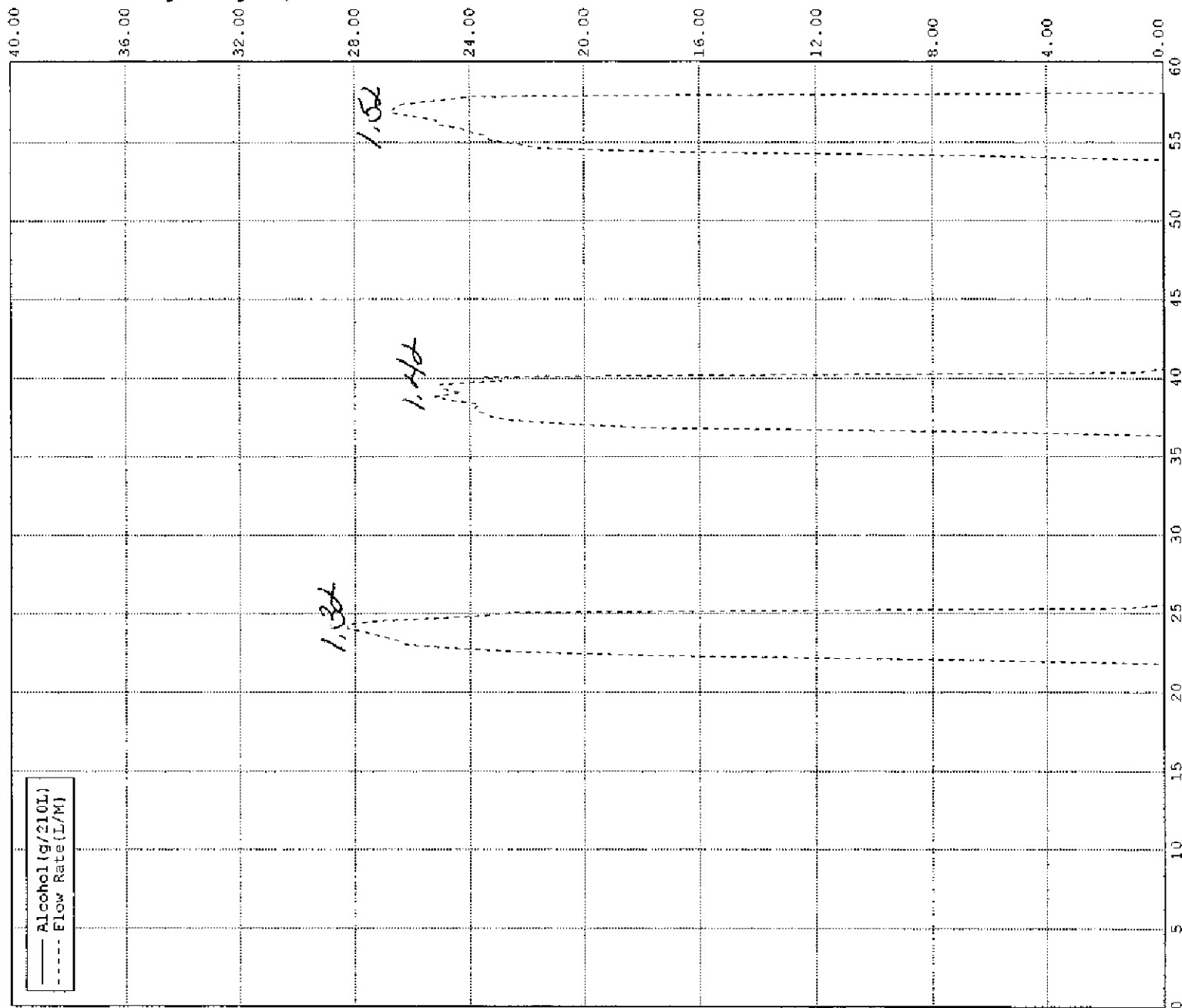
Detector: 0.023 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 01/24/2014
Time: 07:38:53

Ca	=	0.1010		
CAL	=	0.996059	0.800	<= CAL < 1.200
b1	=	0.0003	0.0000	<= b1 < 0.0040
b2	=	0.0047	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0812	0.0500	<= Xq < 0.2000
a21	=	1.133555	1.050	<= a21 < 1.300
a31	=	0.391341	0.300	<= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100424

Date: 06/19/2014
 Time: 09:59:18

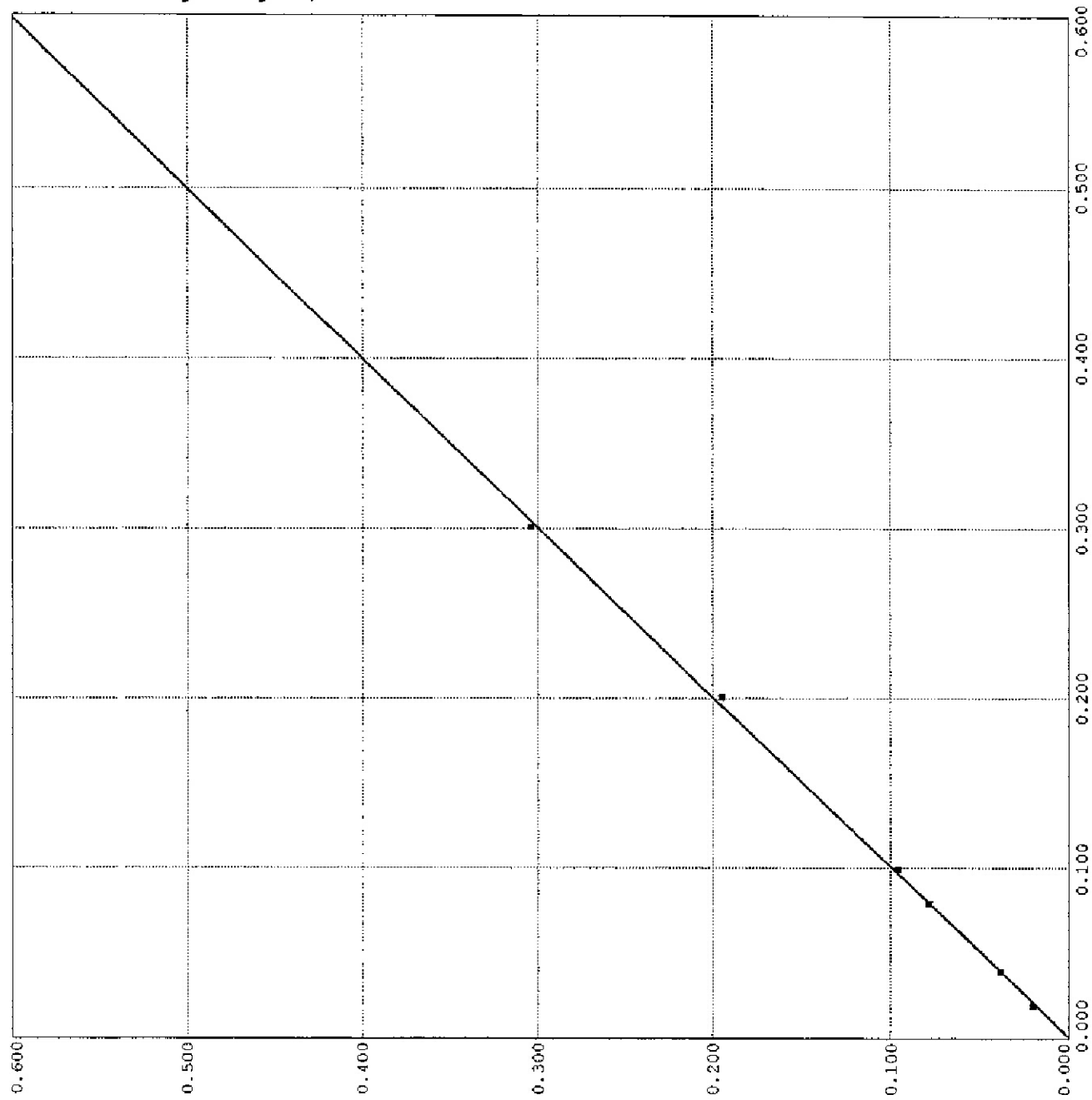
SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
 AAAL
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.64: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	10:00
BLANK TEST	0.000	10:00
INTERNAL STANDARD	VERIFIED	10:00
EXTERNAL STANDARD	0.080	10:00
BLANK TEST	0.000	10:02
SUBJECT SAMPLE	0.000	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.079	10:04
BLANK TEST	0.000	10:05



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER gmt: 100424

Date: 06/19/2014
 Time: 10:16:44

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0211	0.0001
0.039	0.0398	0.0002
0.079	0.0793	0.0004
0.099	0.0969	0.0003
0.200	0.1958	0.0005
0.300	0.3045	0.0007

SLOPE = 1.004061
 R^2 = 0.999205

CB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100424

Date: 06/19/2014

Time: 10:16:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020

TARGET AT 29.64: 0.019

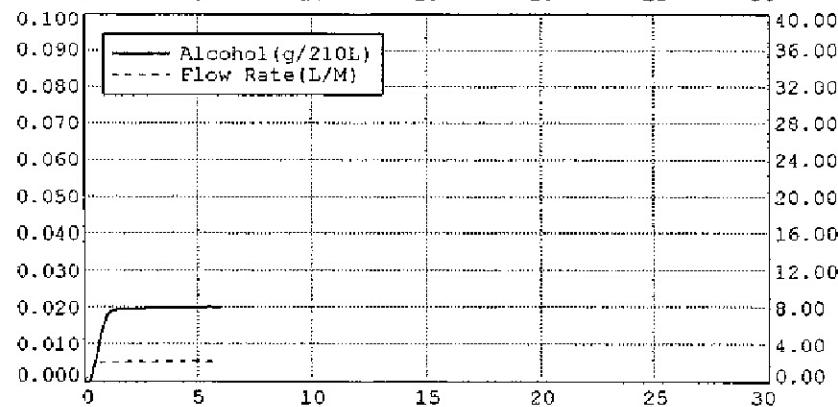
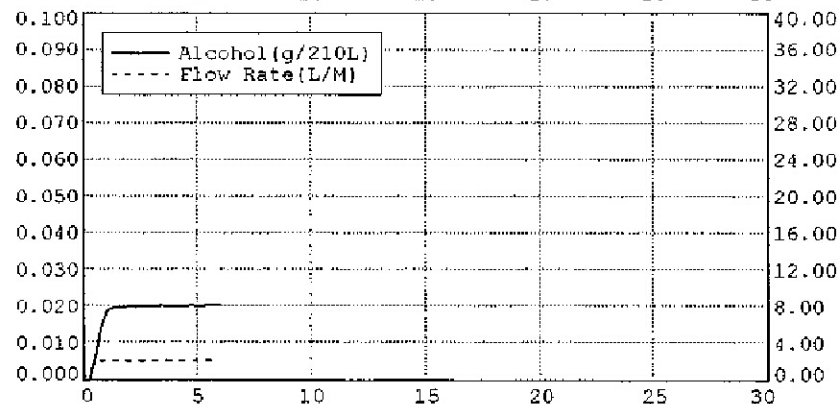
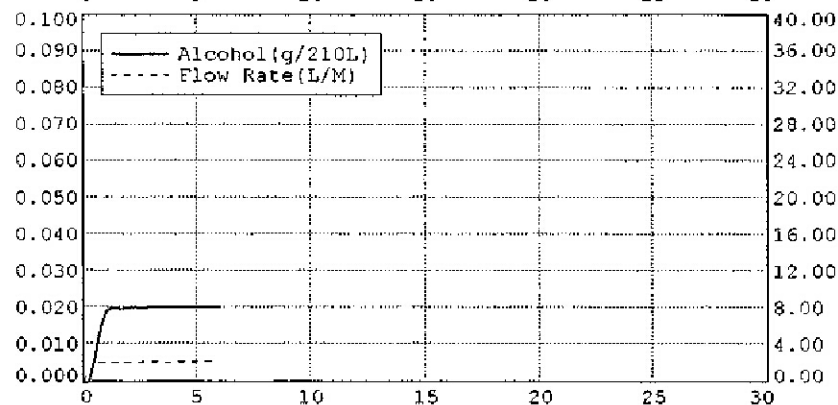
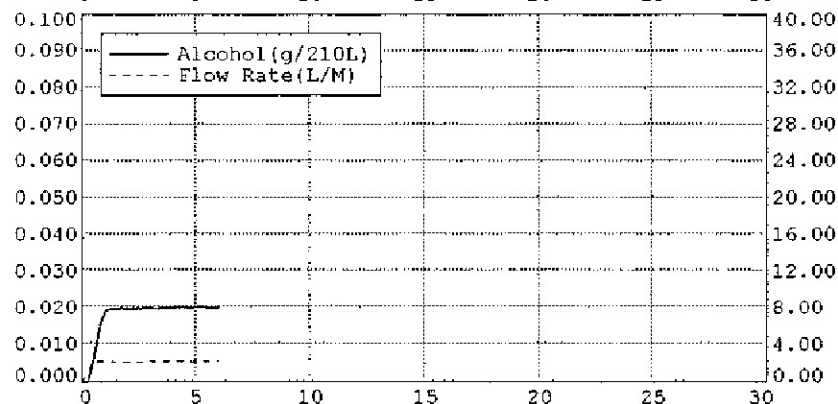
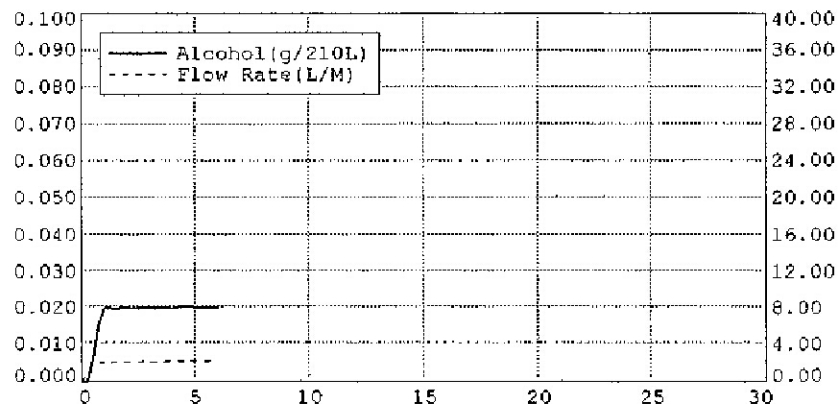
LOT #: 00813020A1

EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:21
INTERNAL STANDARD	VERIFIED	10:21
EXTERNAL STANDARD	0.021	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.021	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.021	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.021	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.021	10:26
BLANK TEST	0.000	10:27

Average = 0.0211

Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100424

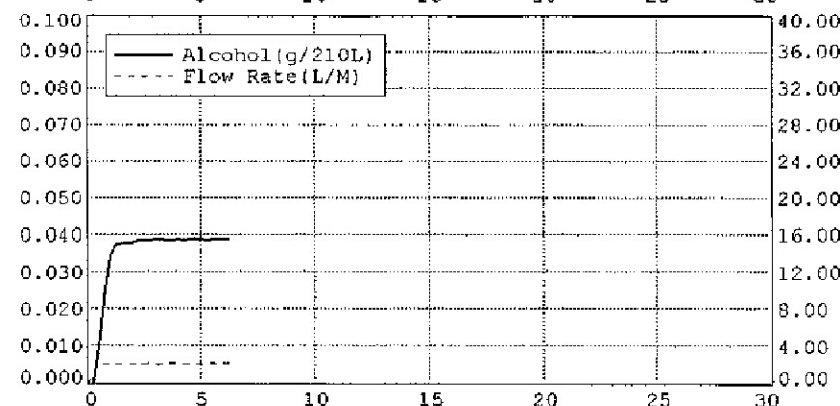
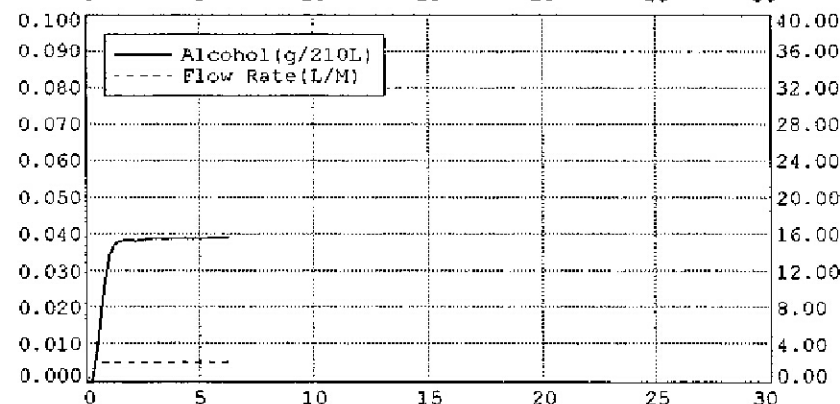
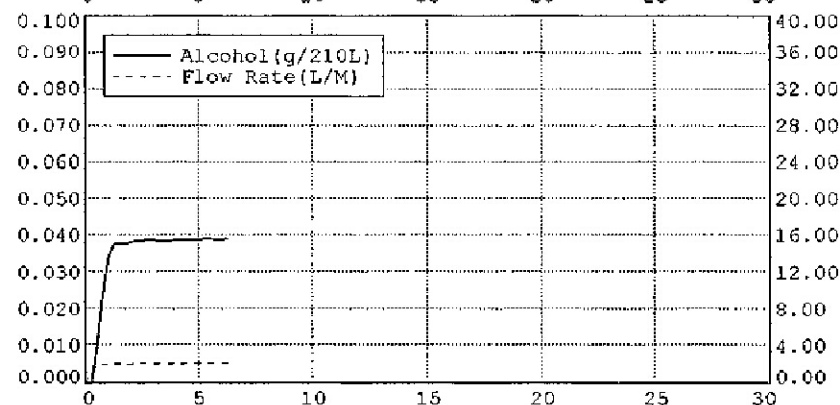
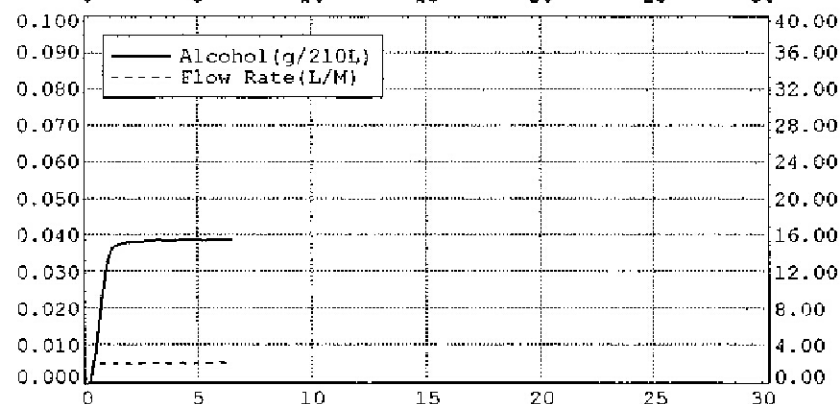
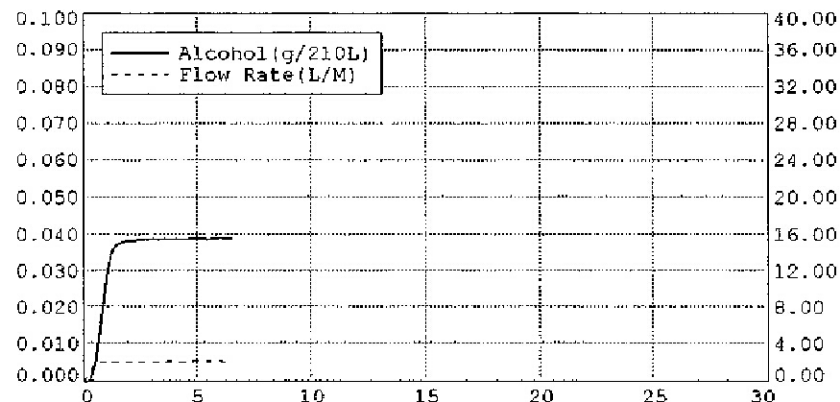
Date: 06/19/2014
Time: 11:08:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.63: 0.039
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	11:09
INTERNAL STANDARD	VERIFIED	11:09
EXTERNAL STANDARD	0.039	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.039	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.039	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.040	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.039	11:14
BLANK TEST	0.000	11:14

Average = 0.0398
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100424

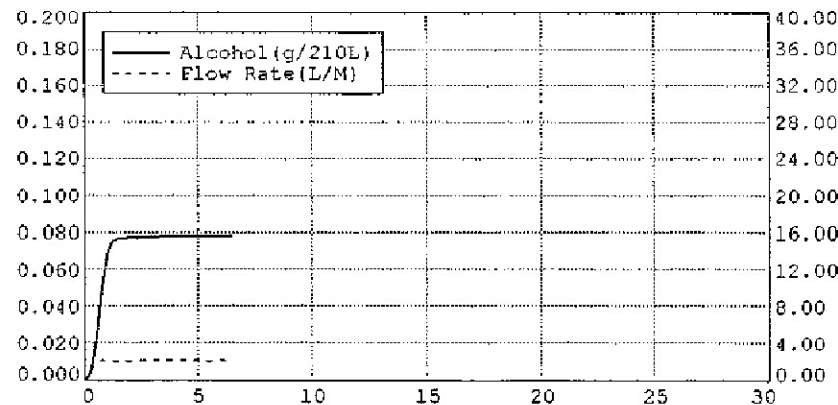
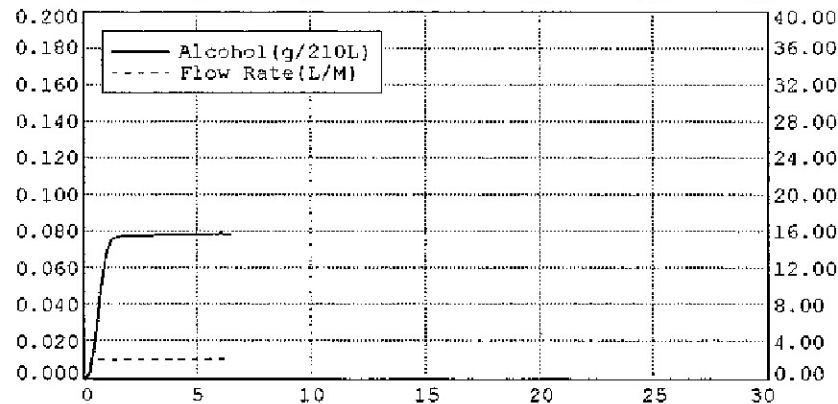
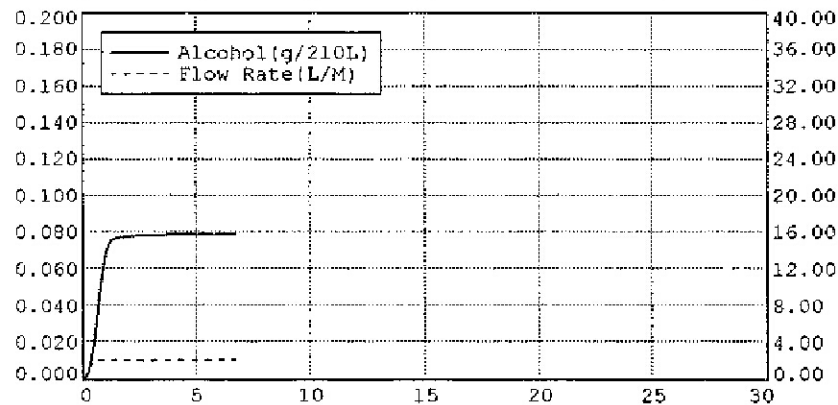
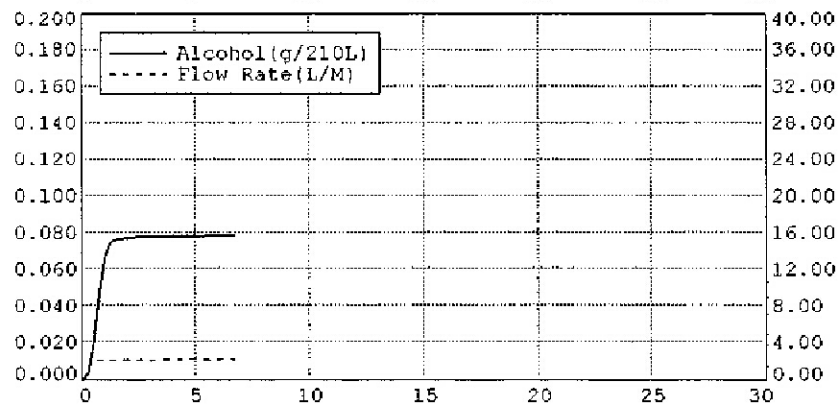
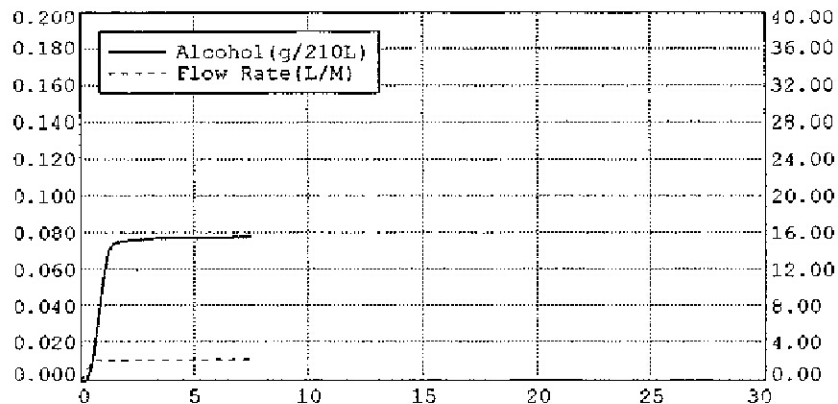
Date: 06/19/2014
Time: 11:16:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

BLANK TEST	0.000	11:17
INTERNAL STANDARD	VERIFIED	11:17
EXTERNAL STANDARD	0.078	11:18
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.079	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.079	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.079	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.079	11:22
BLANK TEST	0.000	11:23

Average = 0.0793
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100424

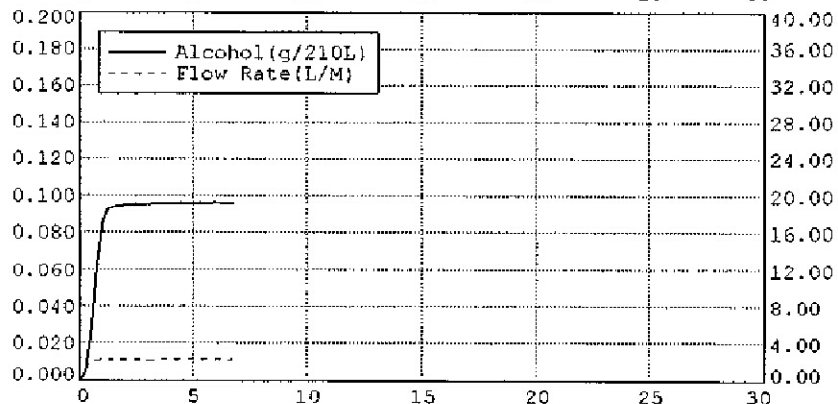
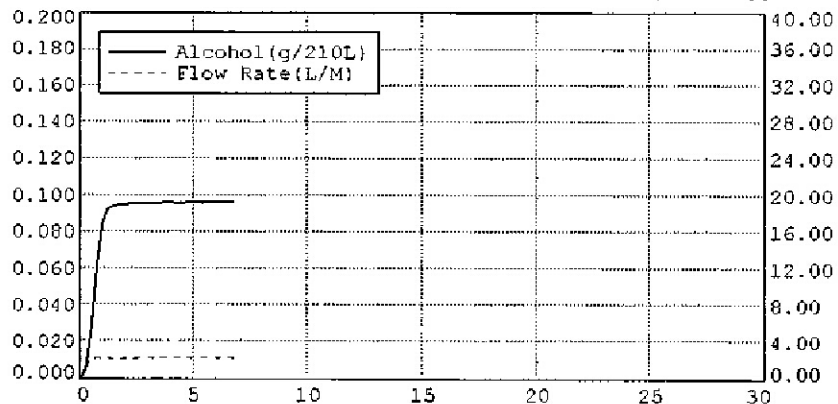
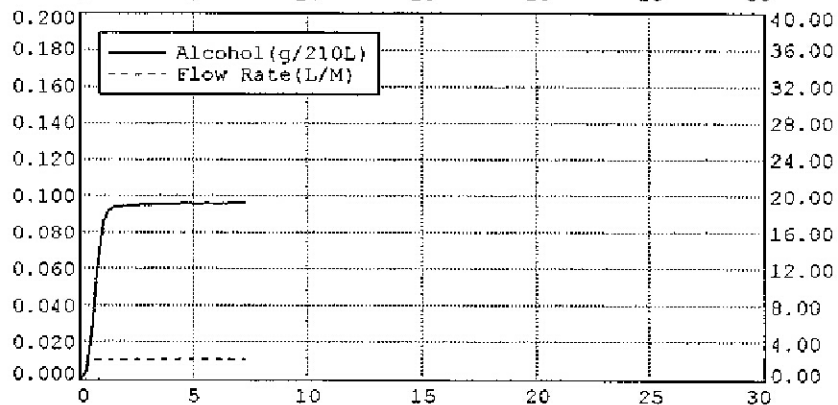
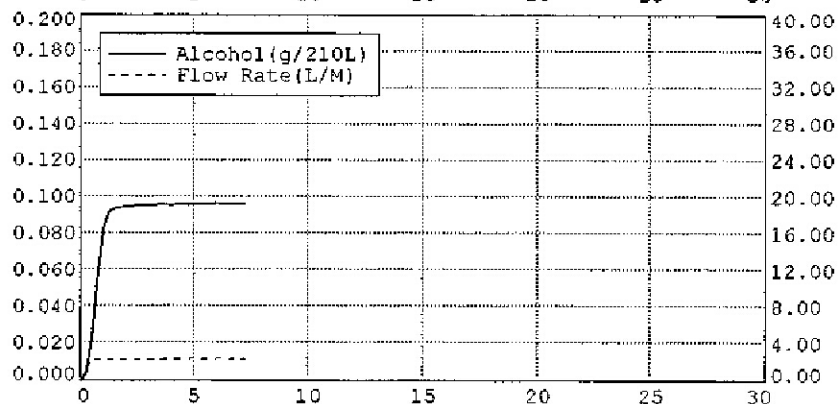
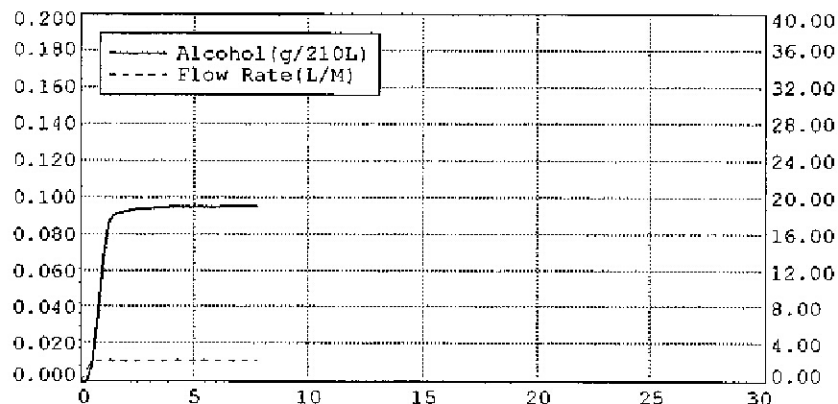
Date: 06/19/2014
Time: 13:20:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.63: 0.099
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:22
EXTERNAL STANDARD	0.096	13:23
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.097	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.097	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.097	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.097	13:27
BLANK TEST	0.000	13:28

Average = 0.0969
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100424

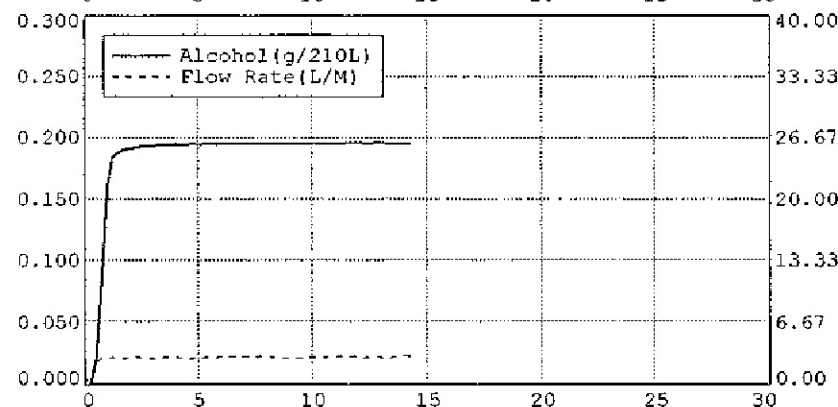
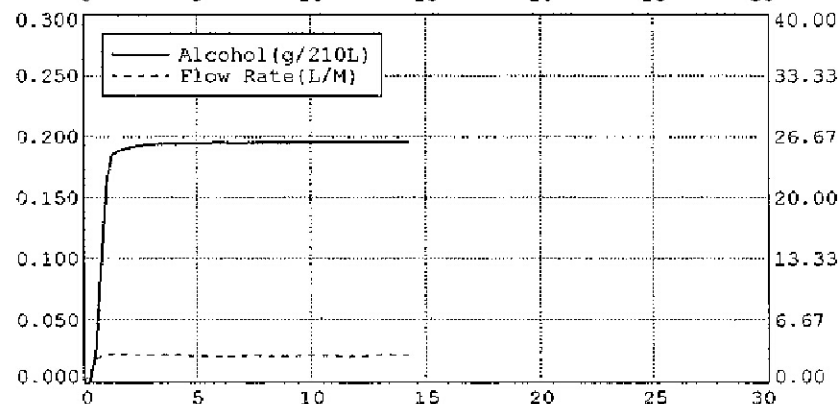
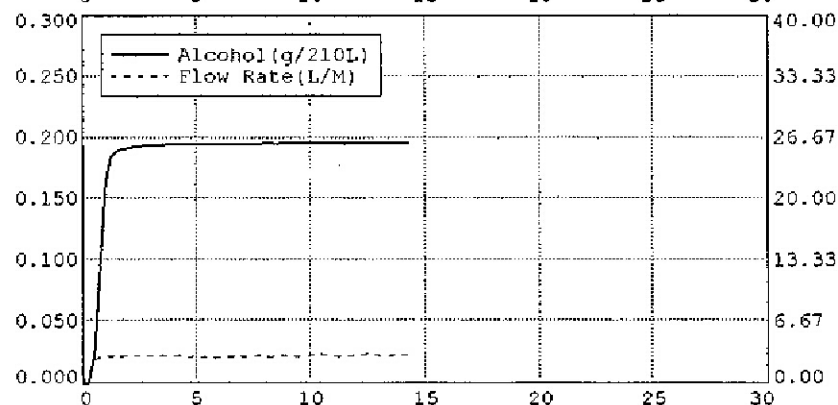
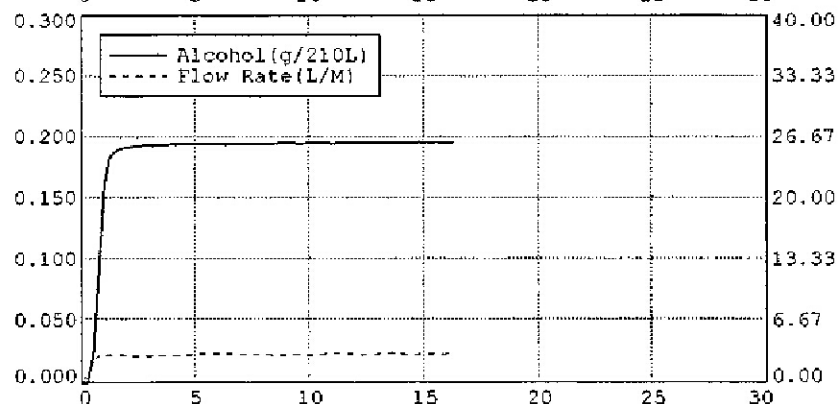
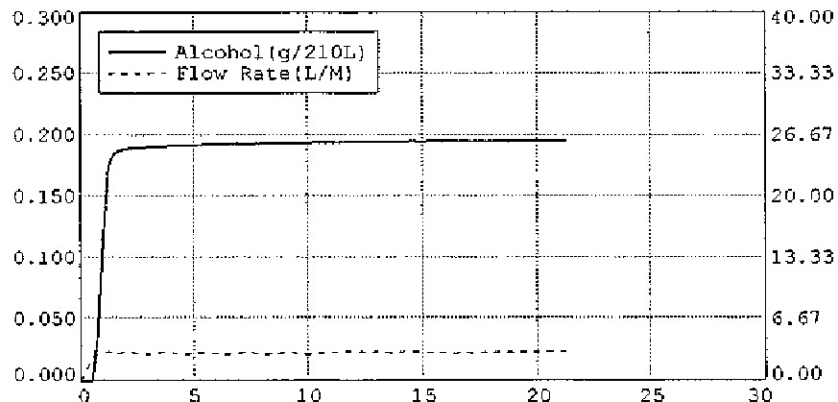
Date: 06/19/2014
Time: 13:28:40

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 12120
EXPIRATION: 08/10/2014

BLANK TEST	0.000	13:29
INTERNAL STANDARD	VERIFIED	13:29
EXTERNAL STANDARD	0.195	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.195	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.196	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.196	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.196	13:35
BLANK TEST	0.000	13:36

Average = 0.1958
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100424

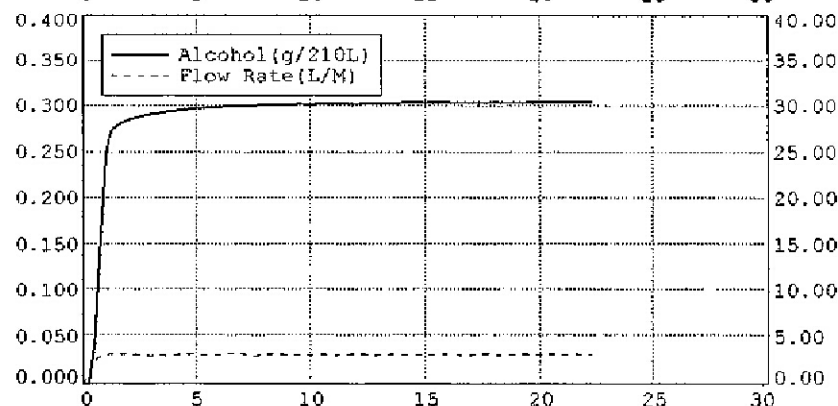
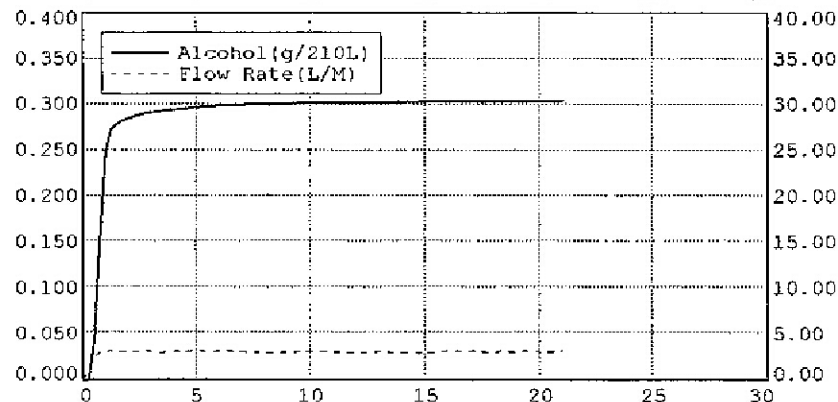
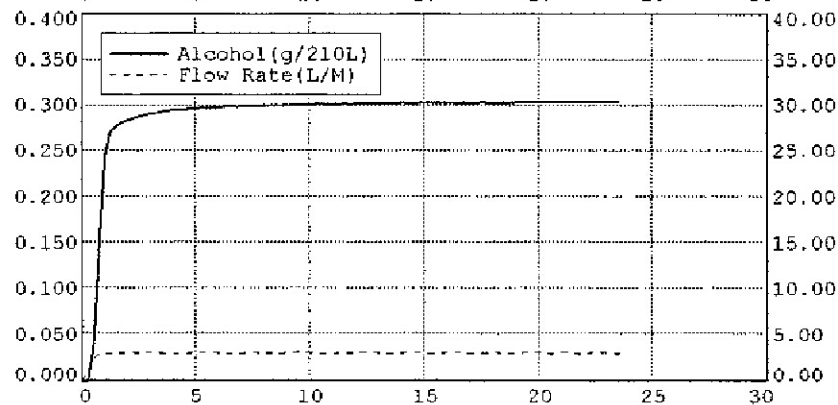
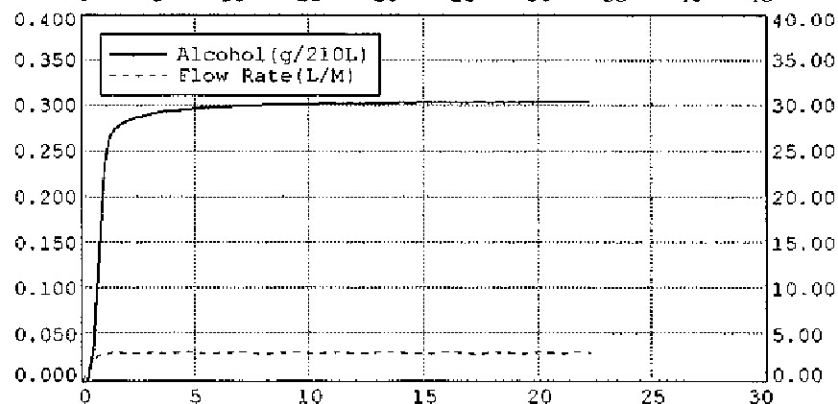
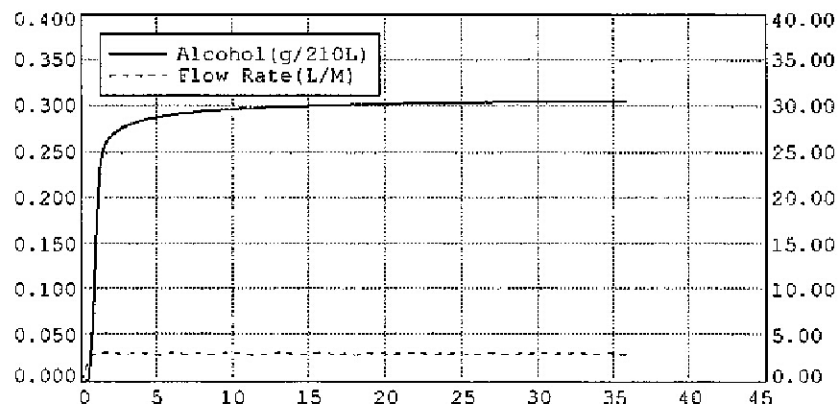
Date: 06/19/2014
Time: 13:40:34

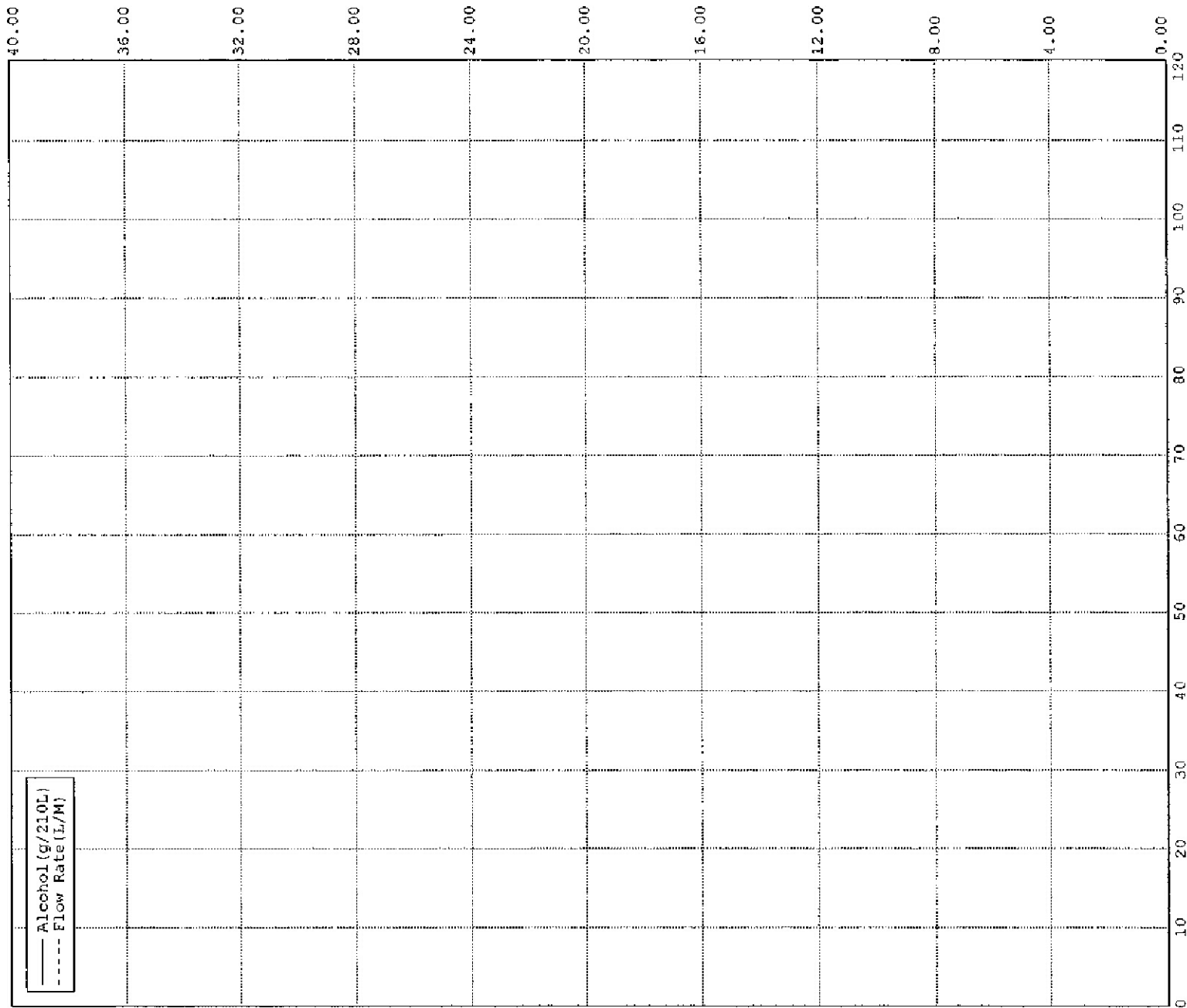
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 13080
EXPIRATION: 03/19/2015

BLANK TEST	0.000	13:41
INTERNAL STANDARD	VERIFIED	13:41
EXTERNAL STANDARD	0.305	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.305	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.303	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.303	13:47
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.304	13:48
BLANK TEST	0.000	13:49

Average = 0.3045
Std Dev = 0.0007





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER cmt: 100424

Date: 06/19/2014
 Time: 14:07:09

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

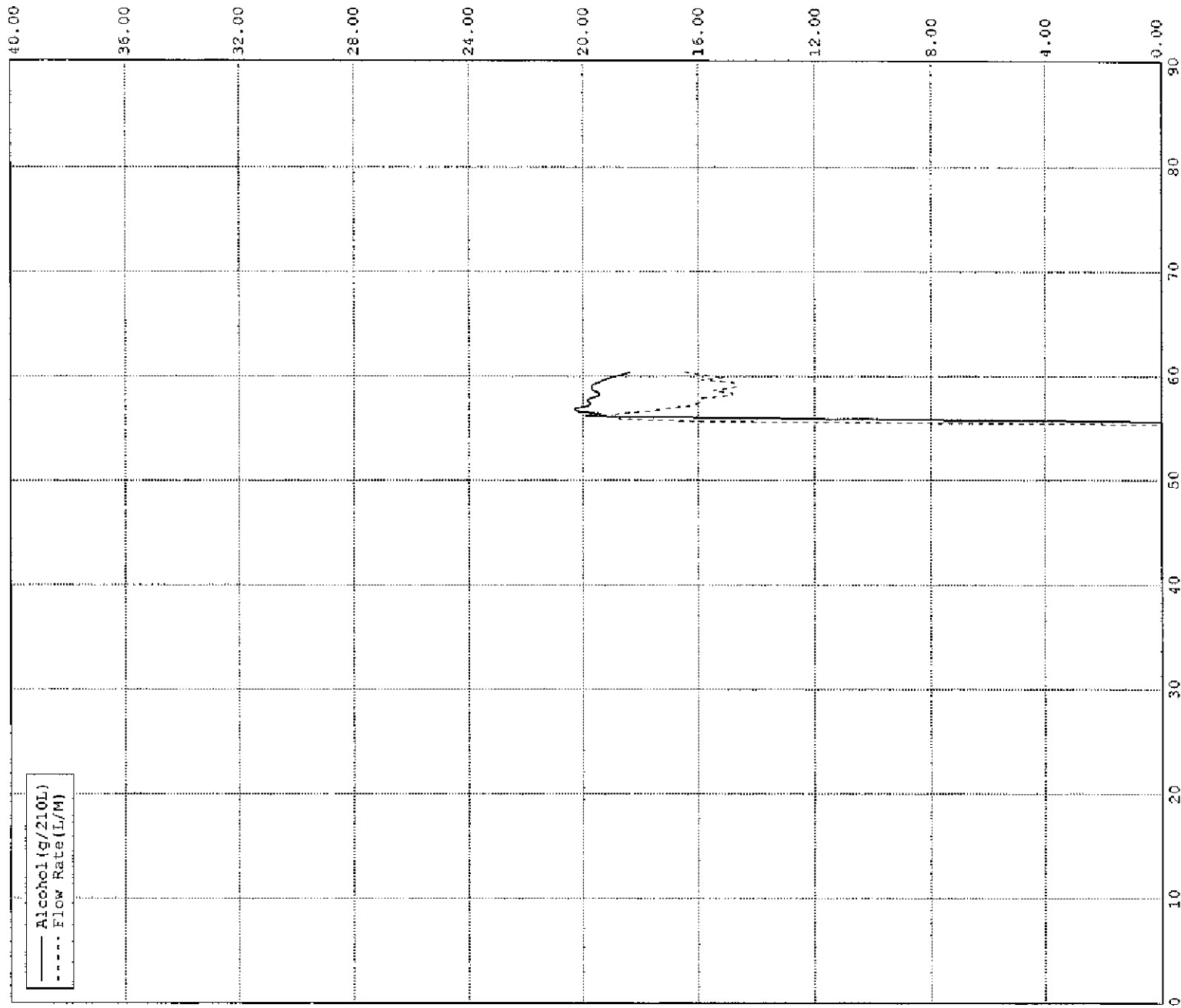
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 5237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:08
BLANK TEST	0.000	14:08
INTERNAL STANDARD	VERIFIED	14:08
EXTERNAL STANDARD	0.079	14:08
BLANK TEST	0.000	14:09
SUBJECT SAMPLE	INCOMPLETE	14:11



SUBJECT TEST

Alaska Department of Public Safety
 DATACASTER dmt: 100424

Date: 06/19/2014
 Time: 14:14:32

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

DEPT/AGENCY:
 AAA1

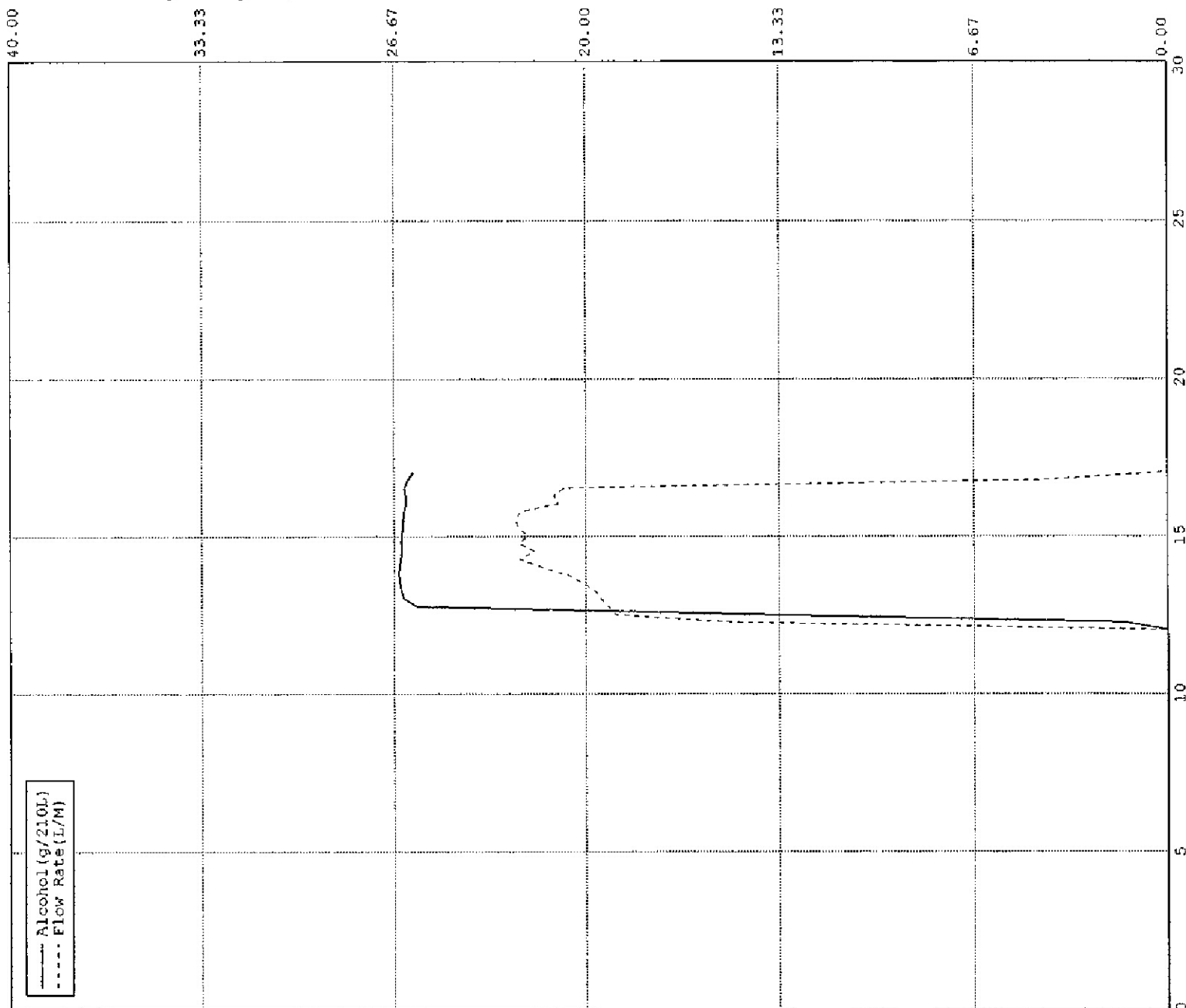
CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:16
BLANK TEST	0.000	14:16
INTERNAL STANDARD	VERIFIED	14:16
EXTERNAL STANDARD	0.078	14:17
BLANK TEST	0.000	14:18
SUBJECT SAMPLE	INVALID	14:19

COB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100424

Date: 06/19/2014
Time: 14:21:36

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

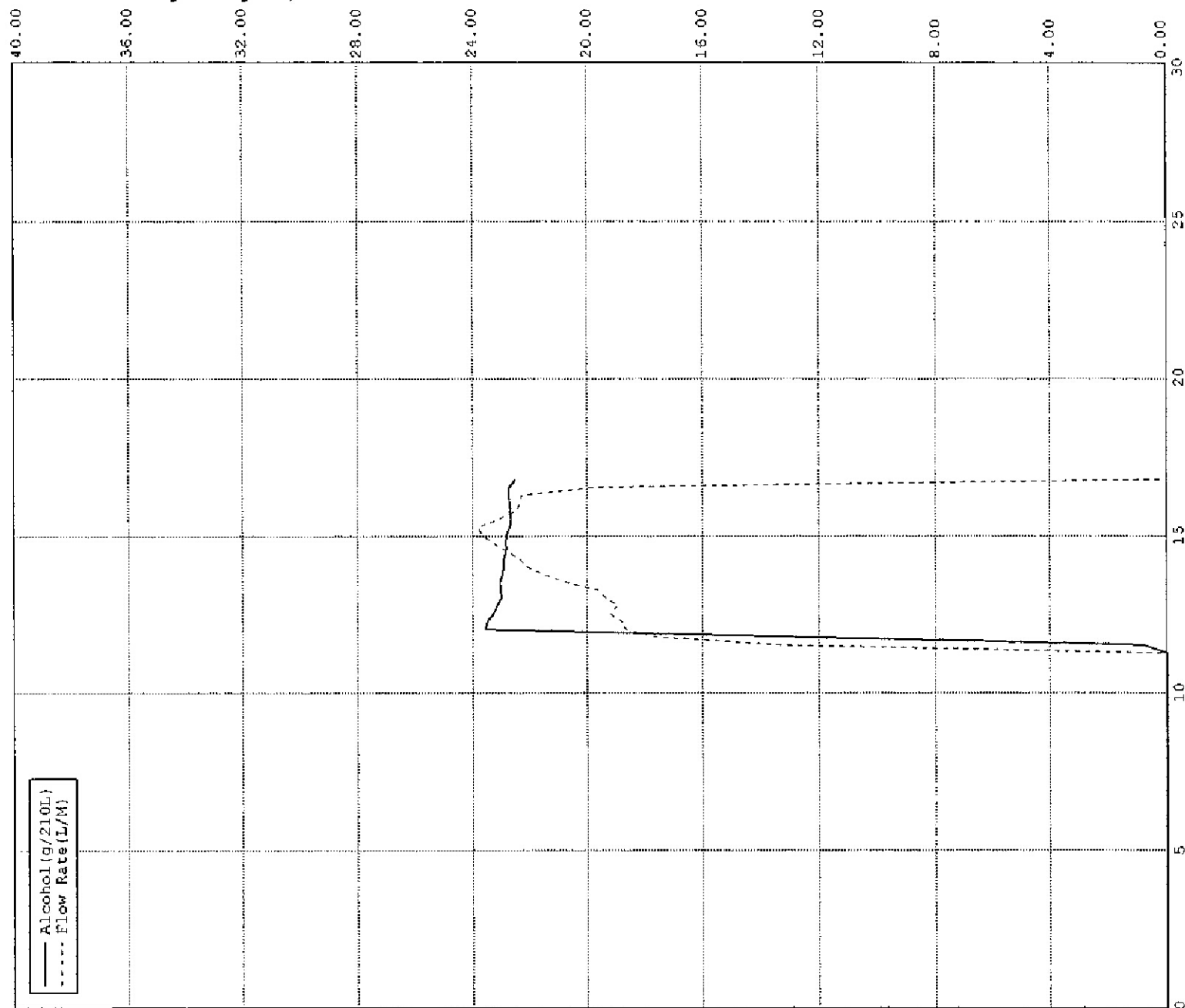
DEPT/AGENCY:
AAA1
CASE/REPORT: 14-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:25
BLANK TEST	0.000	14:25
INTERNAL STANDARD	VERIFIED	14:26
$X_q = 0.081$ (0.32%)		
EXTERNAL STANDARD	0.079	14:26
$X[1] = 0.0798$ (-0.0010) (0.0013)		
BLANK TEST	0.000	14:27
SUBJECT SAMPLE	INTERFERENCE	14:27
$X[1] = 0.1948$ (-0.0187) (-0.0012)		



SUBJECT TEST

Alaska Department of Public Safety
 DATA/MASTER dnt: 100424

Date: 06/19/2014
 Time: 14:31:06

SUBJECT NAME:

TEST TEST
 LICENSE #: INT-IPA

OPERATOR NAME:

COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1
 CASE/REPORT: 14-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.61: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

PASSED 14:40
 BLANK TEST 0.000 14:40
 INTERNAL STANDARD VERIFIED 14:40

Xq = 0.081 (0.00%)

EXTERNAL STANDARD

0.079 14:40

X[1] = 0.0797 (-0.0014) (0.0010)

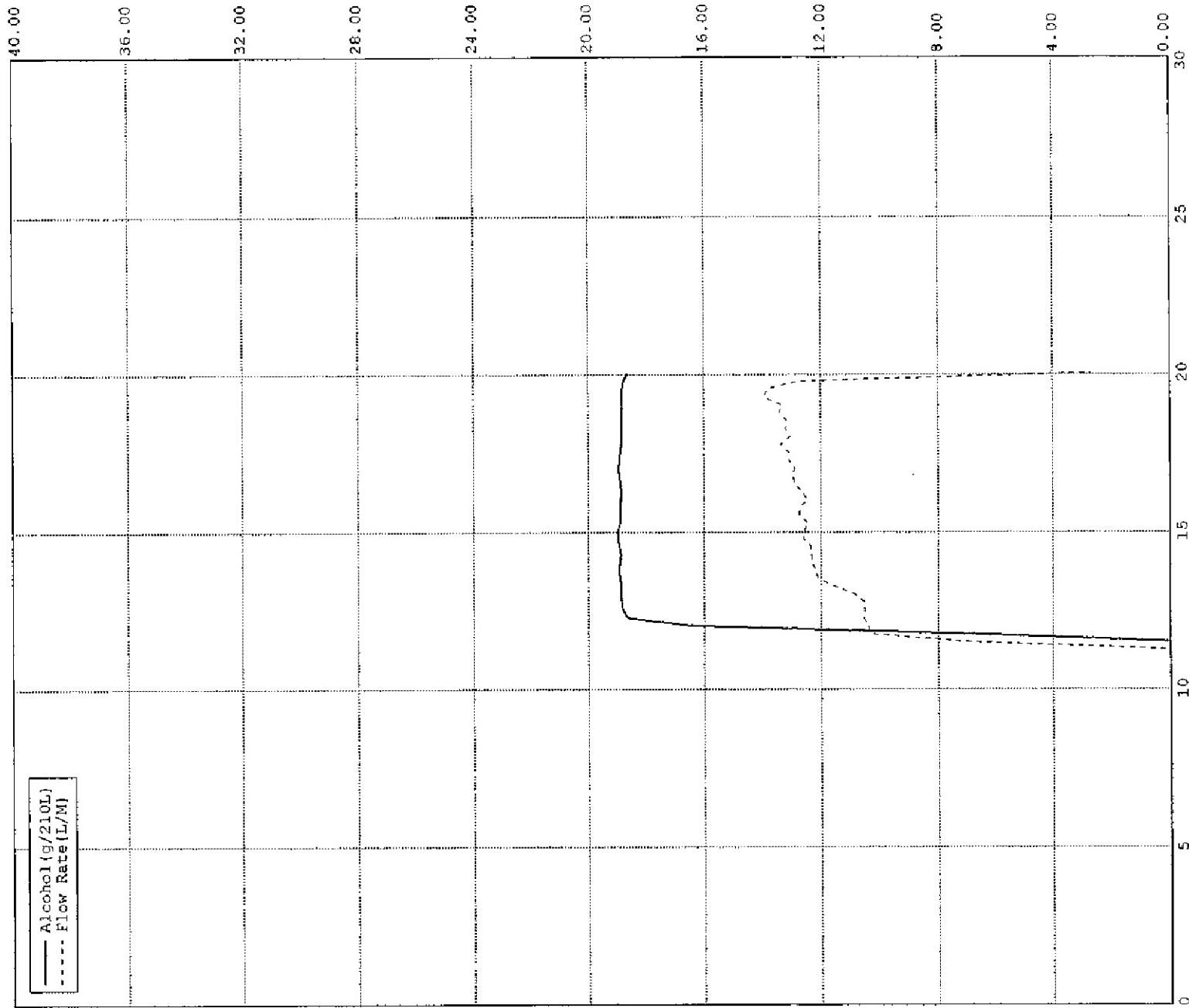
BLANK TEST

0.000 14:41

SUBJECT SAMPLE

INTERFERENCE 14:42

X[1] = 0.1127 (-0.0198) (0.0007)



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100424

Date: 06/19/2014
 Time: 14:59:54

SUBJECT NAME:

TEST TEST

LICENSE #: INT-NEG

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 14-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.62: 0.079

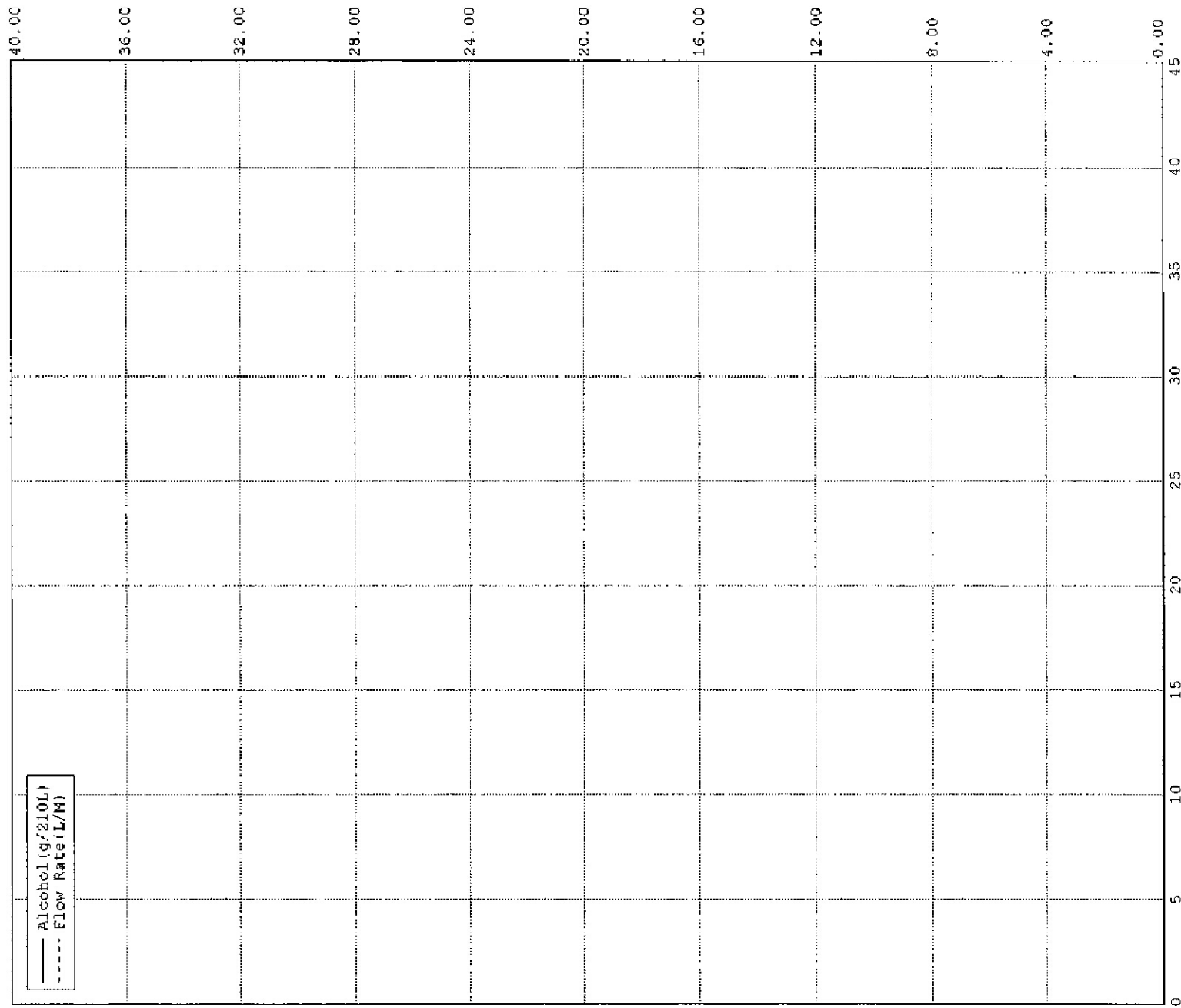
LOT #: 11313080A1

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:01
BLANK TEST	0.000	15:01
INTERNAL STANDARD	VERIFIED	15:01
$X_Q = 0.081$ (0.32%)		
EXTERNAL STANDARD	0.078	15:01
$X[1] = 0.0788$ (-0.0027)	(0.0009)	
BLANK TEST	0.000	15:02
SUBJECT SAMPLE (Vol=1.74L)	0.093	15:03
$X[1] = 0.0939$ (-0.0002)	(-0.0005)	
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.079	15:04
$X[1] = 0.0792$ (-0.0011)	(0.0015)	
BLANK TEST	0.000	15:05

Filter 2 average (-0.0015)
 Filter 3 average (-0.0011)

TS



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100424

Date: 06/19/2014
 Time: 15:07:04

SUBJECT NAME:
 TEST TEST
 LICENSE #: REI

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

DEPT/AGENCY:
 AAAA

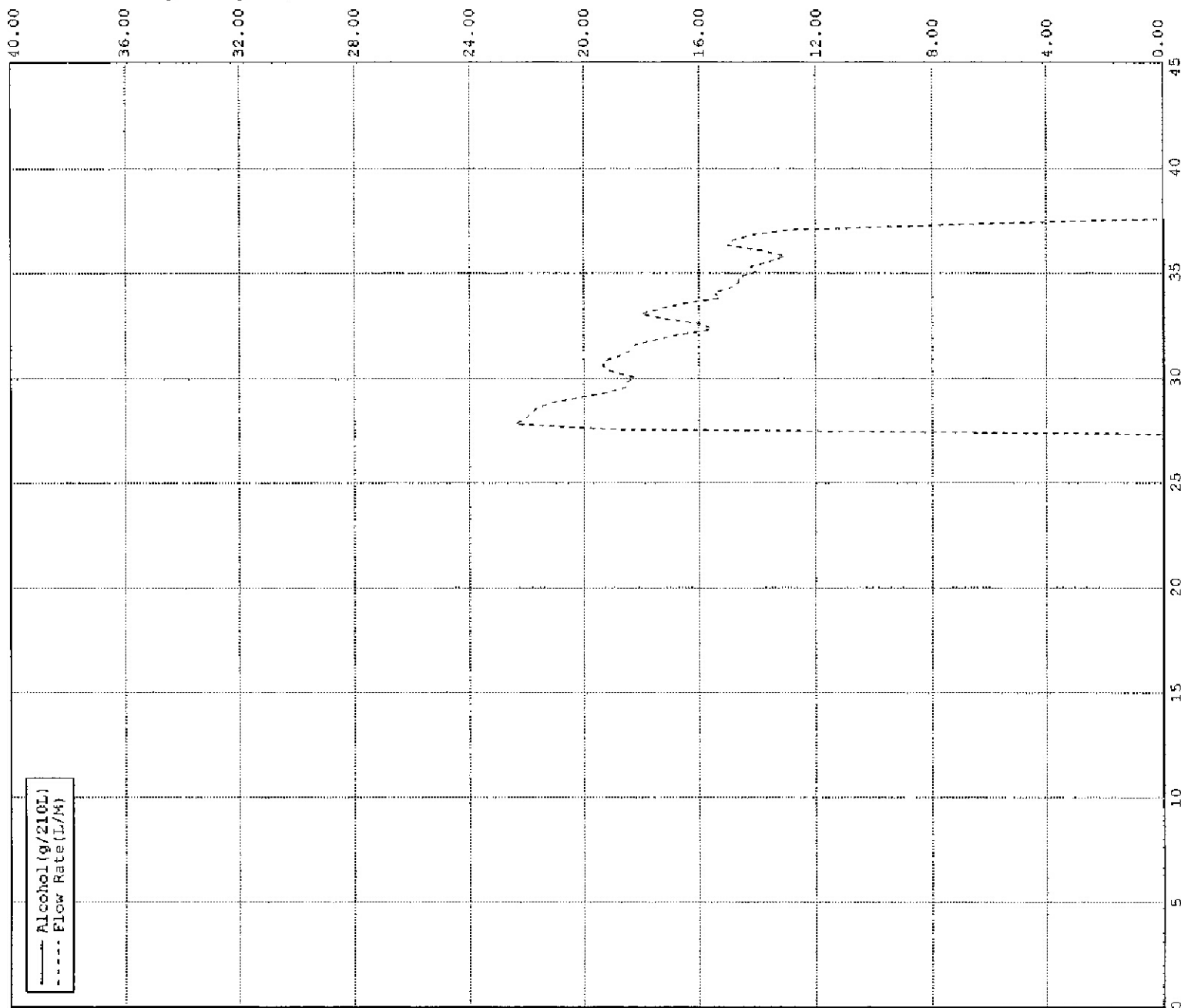
CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.61: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK
 BLANK TEST PASSED 15:08
 INTERNAL STANDARD VERIFIED 15:08
 EXTERNAL STANDARD 0.079 15:08
 BLANK TEST 0.000 15:09

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100424

Date: 06/19/2014
 Time: 15:20:57

SUBJECT NAME:
 TEST TEST
 LICENSE #: NONDRINKING

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

DEPT/AGENCY:
 AAAA
 CASE/REPORT: 14-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.61: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	15:21
BLANK TEST	0.000	15:22
INTERNAL STANDARD	VERIFIED	15:22
EXTERNAL STANDARD	0.080	15:22
BLANK TEST	0.000	15:23
SUBJECT SAMPLE	0.000	15:24
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.080	15:25
BLANK TEST	0.000	15:26

CB

Final page for report

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7/10/2014