

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 2/2/2015
Effective: 2/2/2015

Version: DMCEF 2015 R0
Status: Active

Instrument S/N 100666 Analyst Colleen O'Bryant Start Date 4/20/15

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 ILMO Lot 02915020A2 Exp 3/5/17
- ii. 0.040g/210L Mnf ILMO Lot 02915040A3 Exp 3/5/17
- iii. 0.080g/210L Mnf ILMO Lot 11313080A1 Exp 6/1/15
- iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17
- v. 0.200g/210L Mnf Both Lot 14130 Exp 5/12/16
 1. Simulator S/N SD1200 Date Calibrated 1/20/15
- vi. 0.300g/210L Mnf Both Lot 14070 Exp 10/2/16
 1. Simulator S/N DE6267 Date Calibrated 1/20/15

6. Functional Tests (attached)

- a. Incomplete ☒
- b. Invalid ☒
- c. Interference ☒
- d. Exceeded attempts ☒

i. Acetone - Mnf Both Lot 14110 Level 0.100 Exp 5/1/16

1. Simulator S/N DR4162 Date Calibrated 1/19/15

ii. Isopropanol - Mnf Both Lot 14110 Level 0.100 Exp 5/1/16

1. Simulator S/N DR4163 Date Calibrated 1/19/15

iii. Negative Control - Mnf Both Lot 14030 Level 0.100 Exp 1/20/16

1. Simulator S/N DR4178 Date Calibrated 1/19/15

e. RFI ☒

7. Verify stylus is calibrated ☒

8. Reset Options ☒

9. Clear Memory ☒

10. Verification of Calibration ☒

11. Non-Drinking Subject Test (attached) ☒

12. Upload ☒

13. Remove tank prior to shut down ☒

End Date 4/23/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 04/20/2015
Time: 08:58:01

VERSIONS
DMT: 3.00
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 47.5°C	PASSED

PUMP INFO
Flow Rate = 4.978 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

Technician Screen

DATAMASTER dmt: 100666

Date: 04/20/2015

Time: 9:01 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 47.5°C

Current Barometer 29.4 in

Volume (Ltr) 1.48

Settings

Lamp: 1.62 V

Bias: 80 V

Cooler: 1.61 V

Chopper: 539 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.028 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 05/16/2013
Time: 07:28:58

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.970788 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.0857 0.0500 <= Xq < 0.2000
a21 = 1.140341 1.050 <= a21 < 1.300
a31 = 0.528494 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 04/20/2015
Time: 09:16:20

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME

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

DEPT/AGENCY:

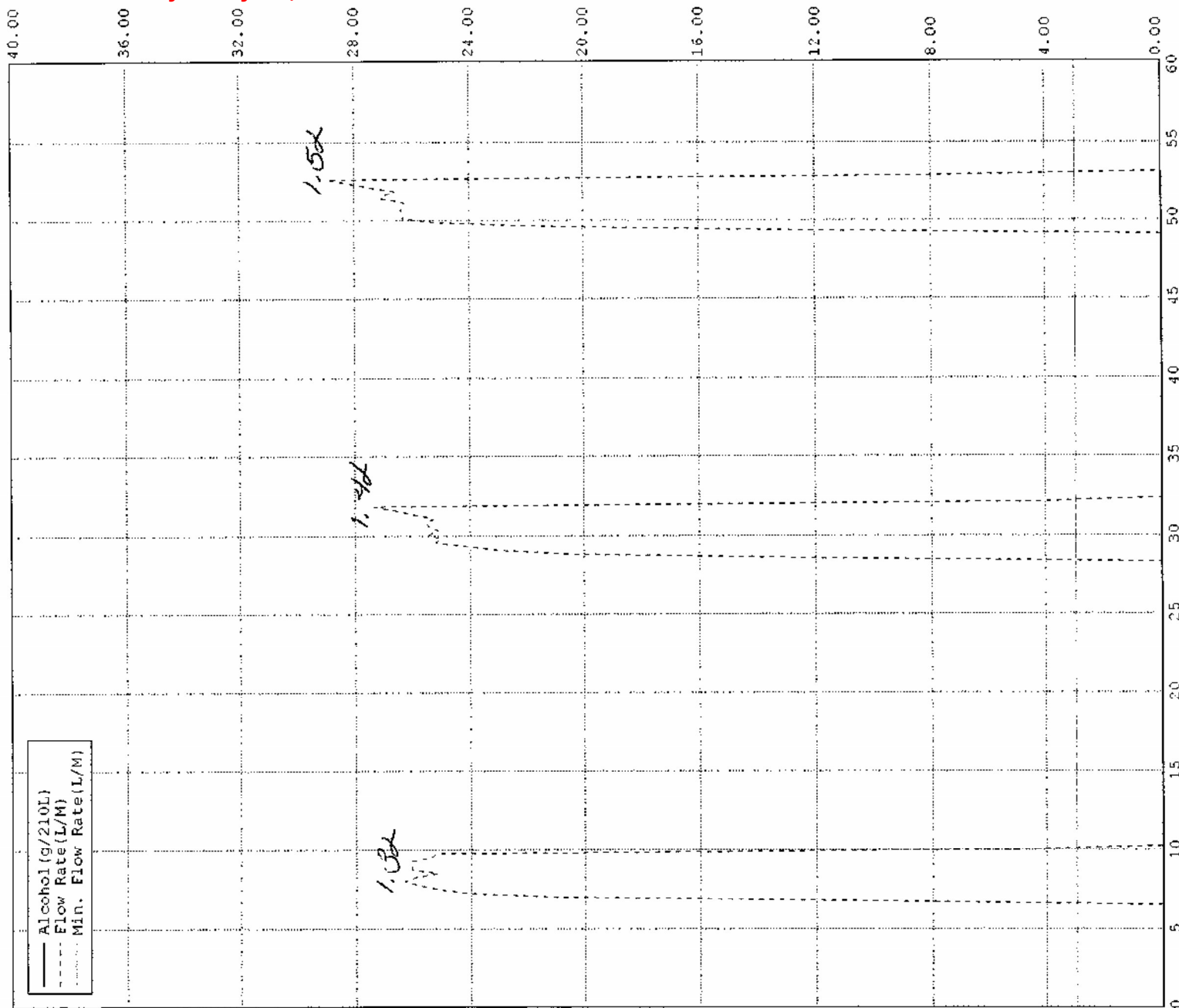
AA1
CASE/REPORT: 15-1234
TEST TYPE: TEST

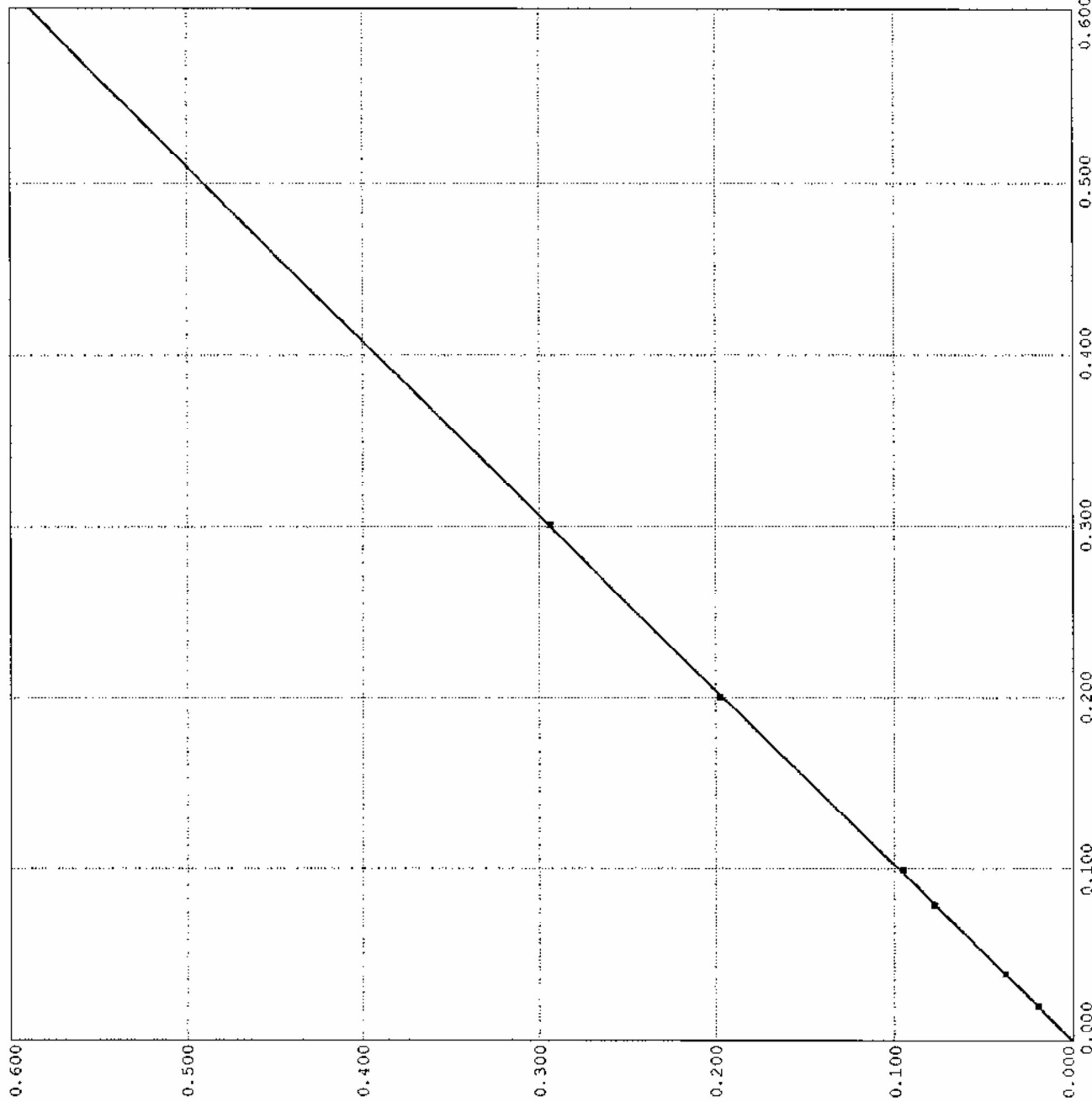
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.41: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	09:20
BLANK TEST	0.000	09:20
INTERNAL STANDARD	VERIFIED	09:20
EXTERNAL STANDARD	0.078	09:20
BLANK TEST	0.000	09:21
SUBJECT SAMPLE (Vol=1.52L)	0.000	09:22
BLANK TEST	0.000	09:23
EXTERNAL STANDARD	0.079	09:23
BLANK TEST	0.000	09:24

CB





LINEARITY CHECK			
----- Alaska Department of Public Safety DATAMASTER dmt: 100666 ----- Date: 04/20/2015 Time: 14:15:45 SUPERVISOR NAME: COLLEEN S O'BRYANT OPERATOR'S #: 6237			
TARGET	AVERAGE	STD. DEV.	
0.020	0.0204	0.0005	
0.039	0.0390	0.0000	
0.079	0.0784	0.0005	
0.099	0.0962	0.0004	
0.200	0.1986	0.0005	
0.300	0.2944	0.0005	
SLOPE		= 0.981749	
R ²		= 0.999894	

CAB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100666

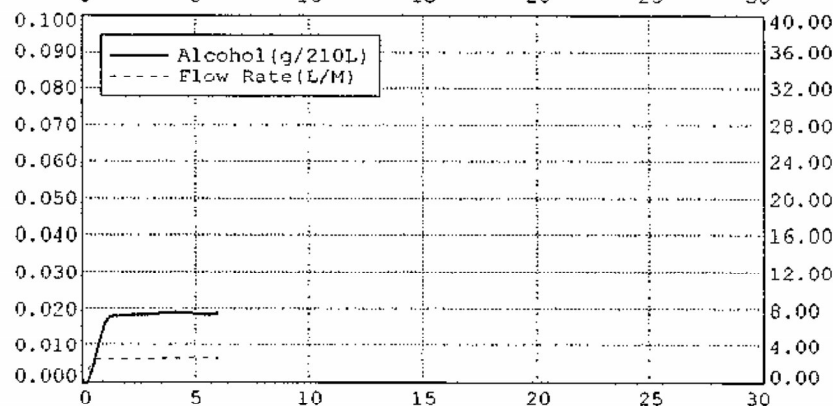
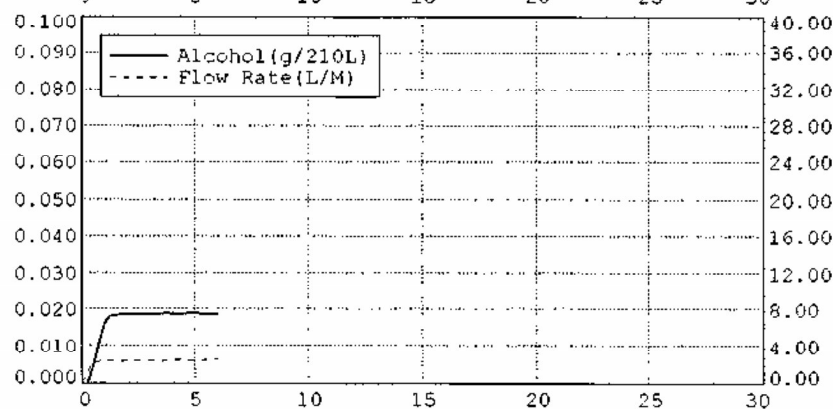
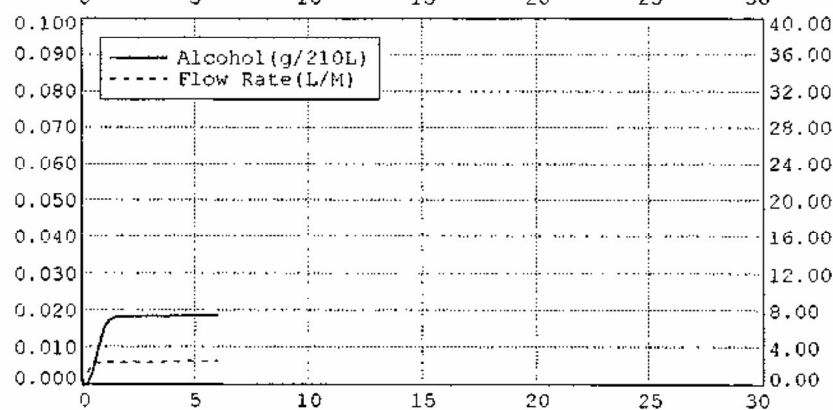
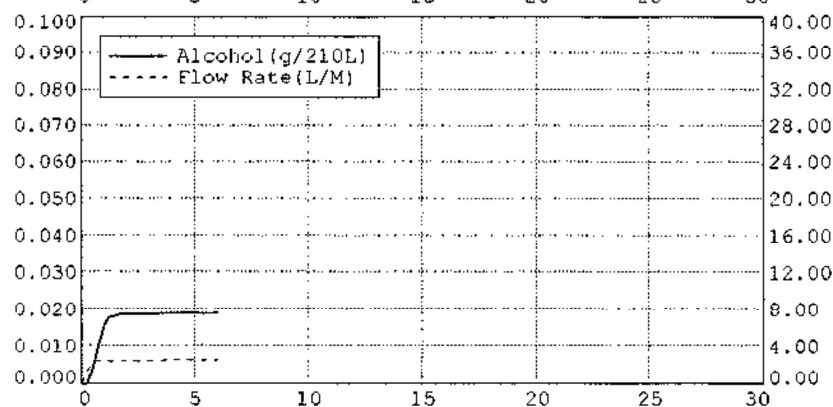
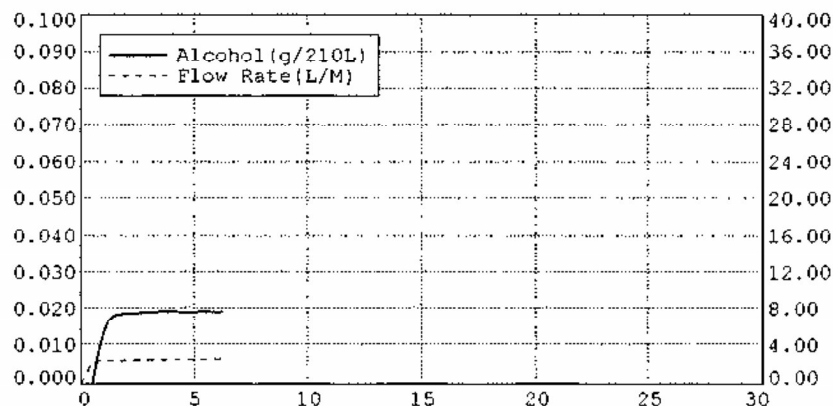
Date: 04/20/2015
Time: 14:15:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.46: 0.020
LOT #: 02915020A2
EXPIRATION: 03/05/2017
TANK PRESSURE: 973 psi

BLANK TEST	0.000	14:24
INTERNAL STANDARD	VERIFIED	14:24
EXTERNAL STANDARD	0.021	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.020	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.020	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.020	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.021	14:29
BLANK TEST	0.000	14:30

Average = 0.0204
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100666

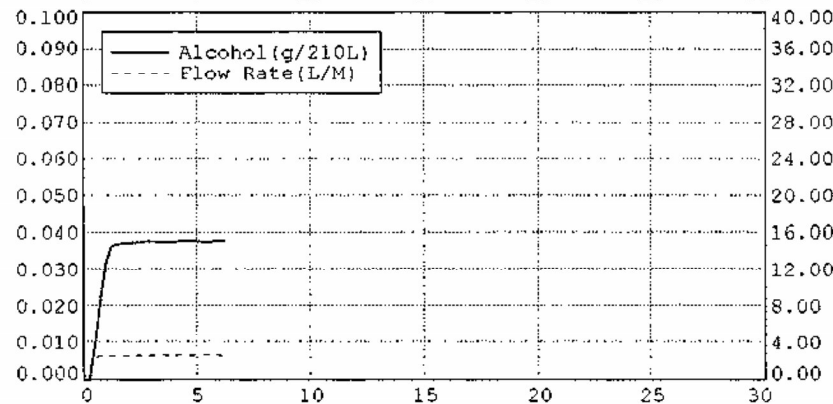
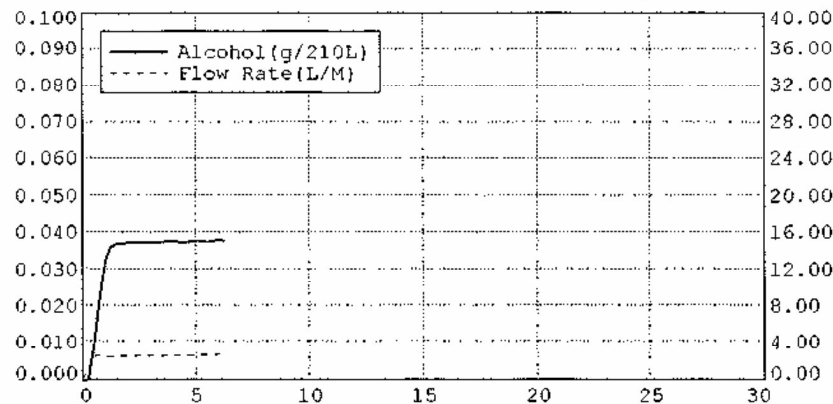
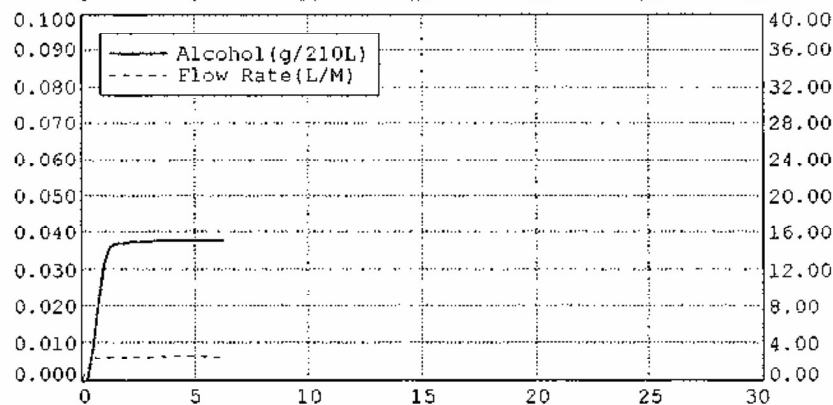
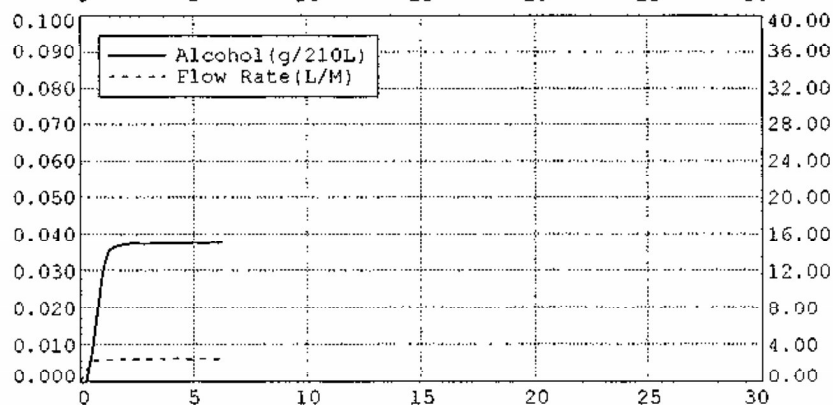
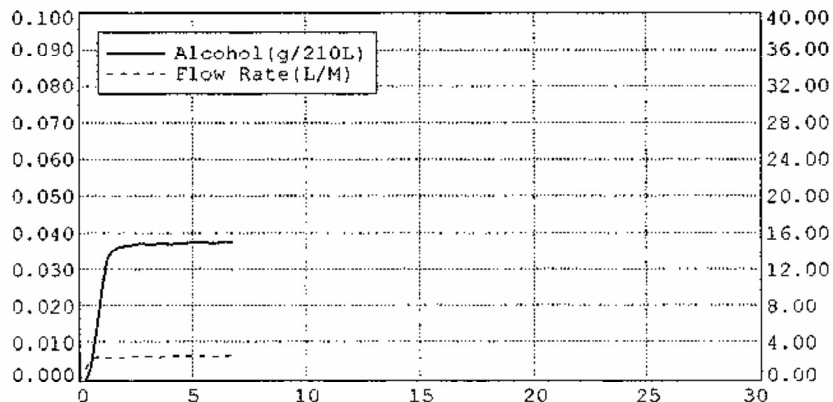
Date: 04/20/2015
Time: 14:34:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.47: 0.039
LOT #: 02915040A3
EXPIRATION: 03/05/2017
TANK PRESSURE: 1048 psi

BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
EXTERNAL STANDARD	0.039	14:37
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.039	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.039	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.039	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.039	14:41
BLANK TEST	0.000	14:42

Average = 0.0390
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100666

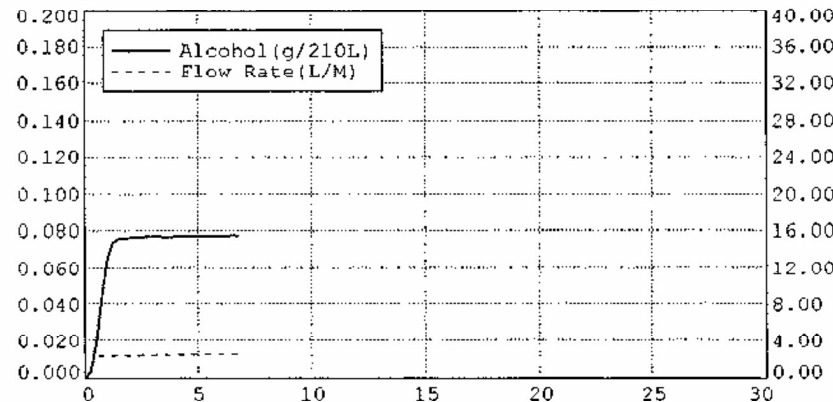
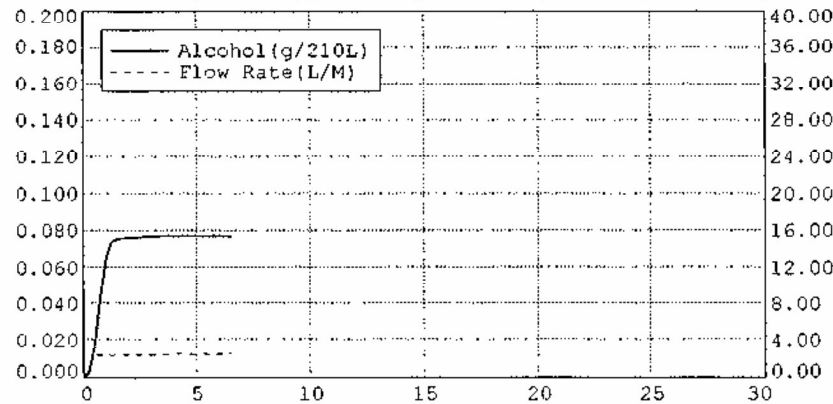
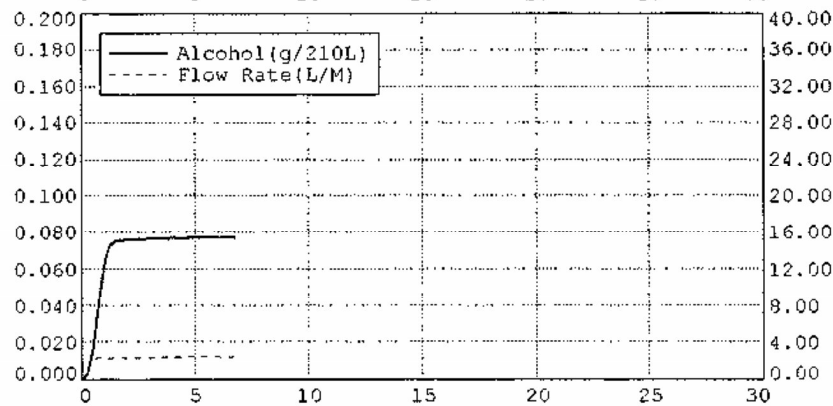
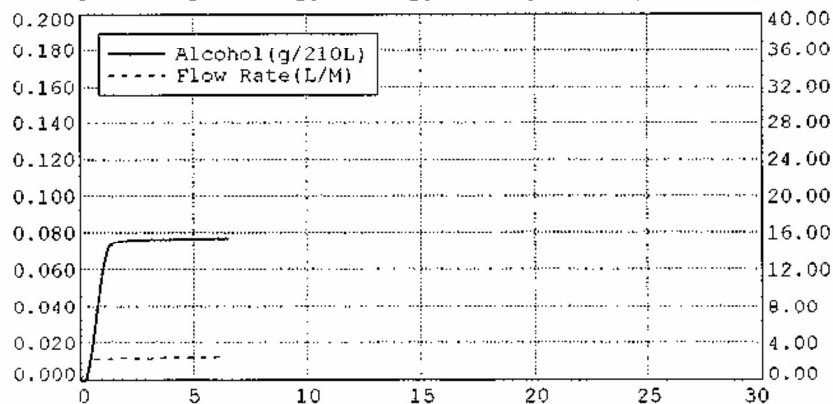
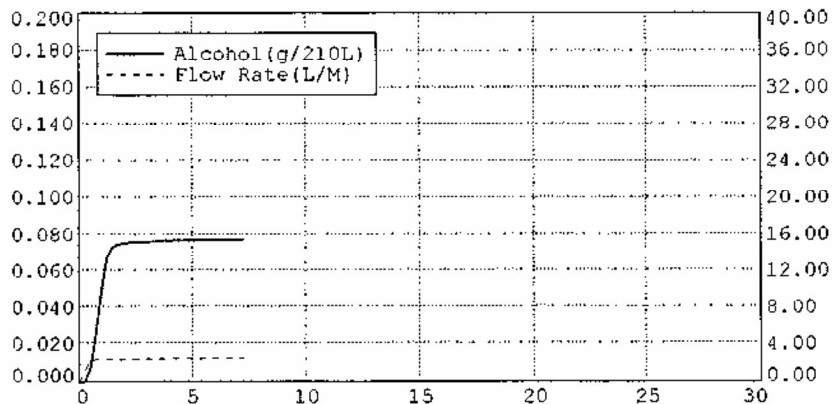
Date: 04/20/2015
Time: 14:42:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.46: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015
TANK PRESSURE: 825 psi

BLANK TEST	0.000	14:44
INTERNAL STANDARD	VERIFIED	14:44
EXTERNAL STANDARD	0.079	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.078	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.078	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.078	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.079	14:48
BLANK TEST	0.000	14:49

Average = 0.0784
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100666

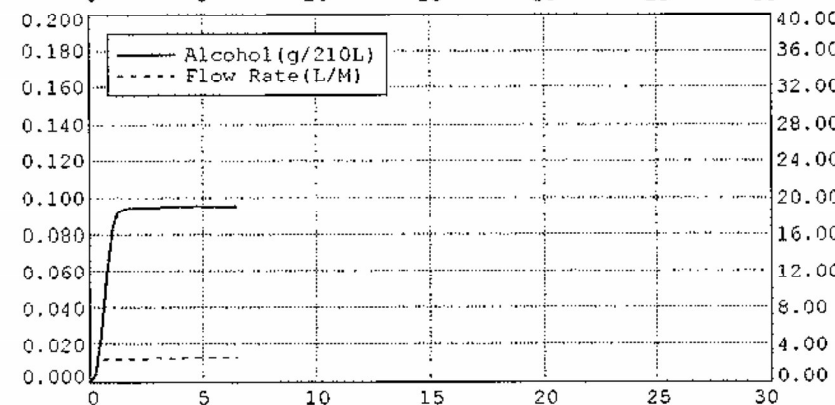
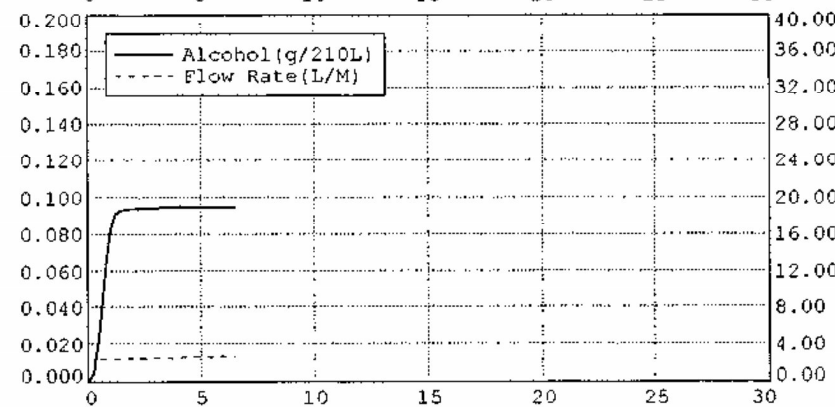
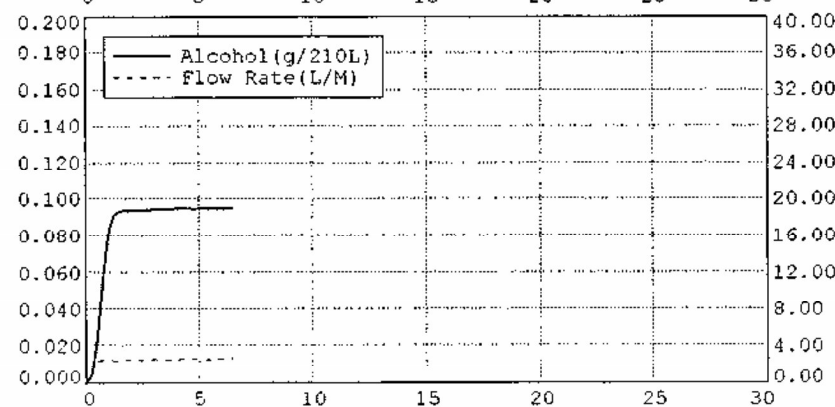
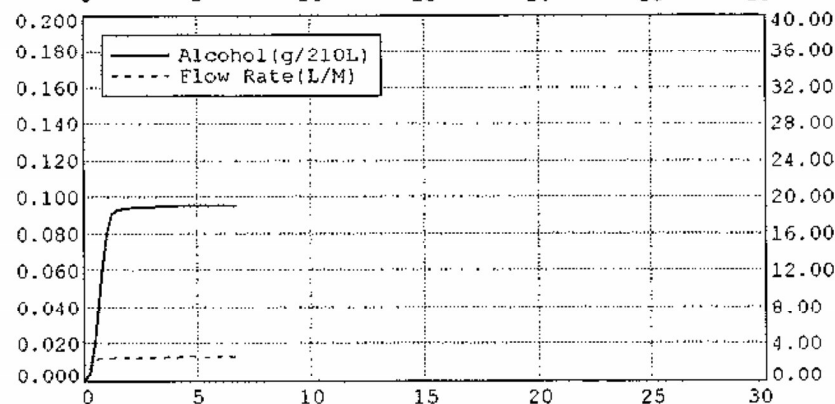
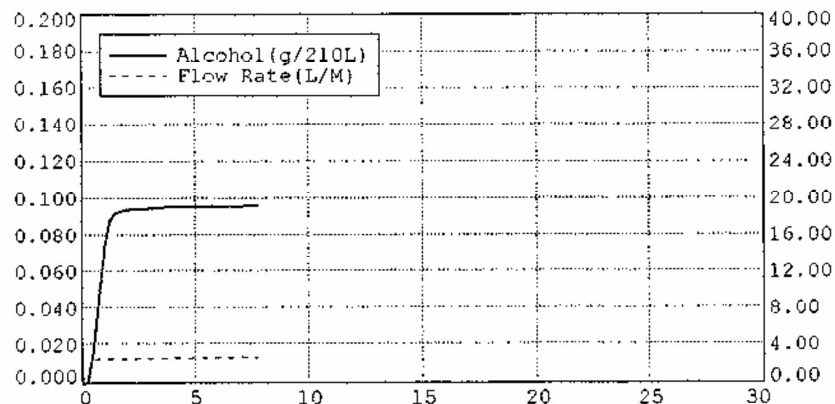
Date: 04/20/2015
Time: 14:50:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.48: 0.099
LOT #: 02915100A1
EXPIRATION: 03/05/2017
TANK PRESSURE: 995 psi

BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:51
EXTERNAL STANDARD	0.097	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.096	14:53
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.096	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.096	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.096	14:56
BLANK TEST	0.000	14:57

Average = 0.0962
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 04/20/2015
Time: 15:00:02

EXTERNAL STANDARD INFORMATION

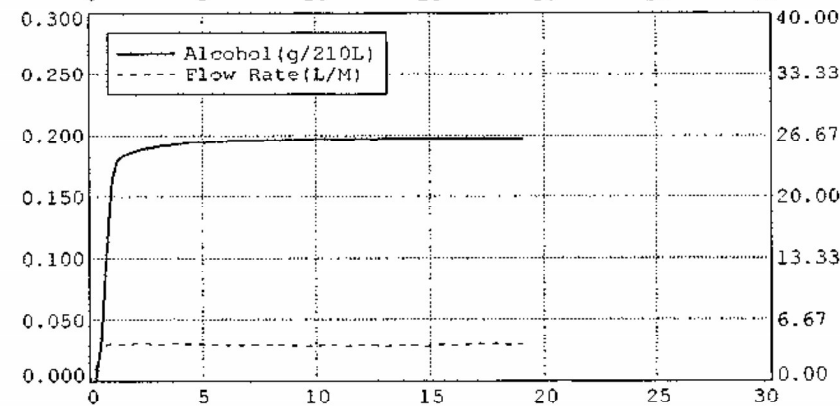
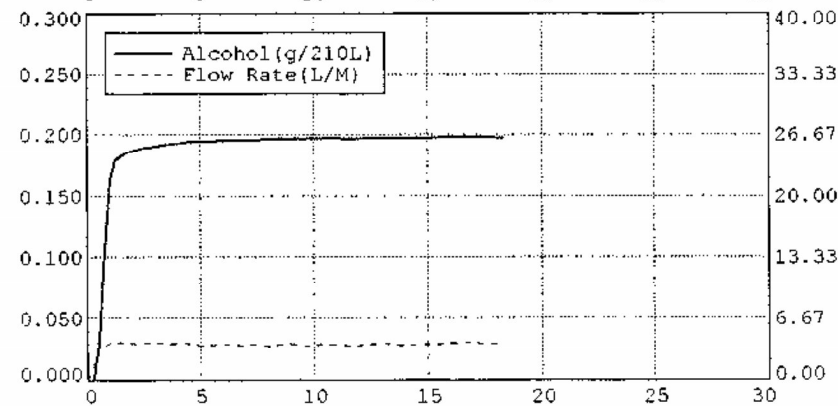
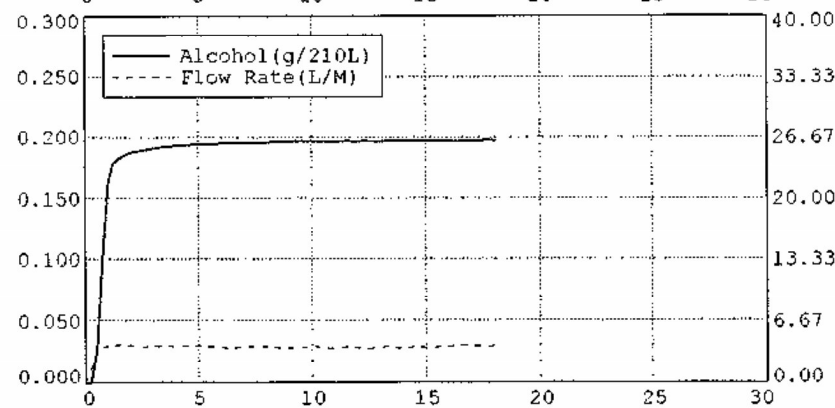
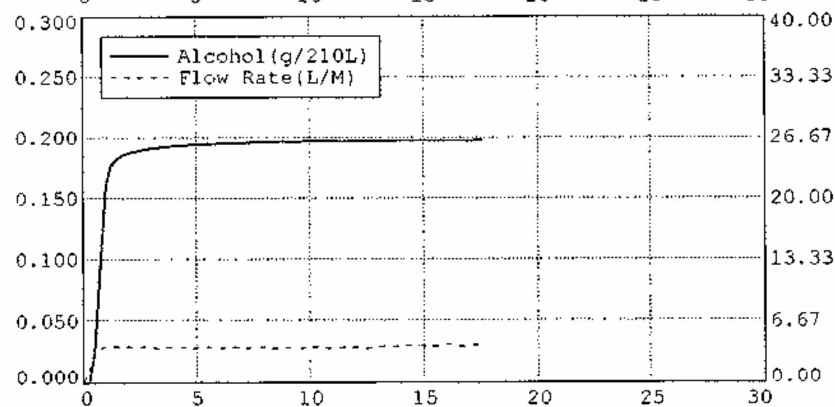
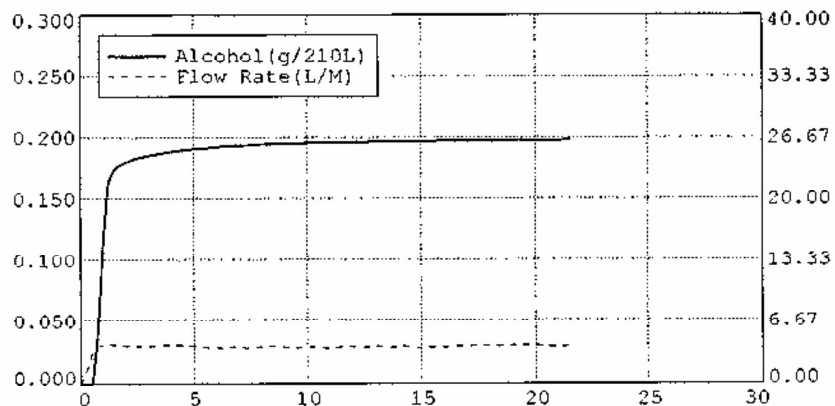
NOMINAL: 0.200

LOT #: 14130

EXPIRATION: 05/12/2016

BLANK TEST	0.000	15:01
INTERNAL STANDARD	VERIFIED	15:01
EXTERNAL STANDARD	0.199	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.198	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.198	15:04
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.199	15:05
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.199	15:06
BLANK TEST	0.000	15:07

Average = 0.1986
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100666

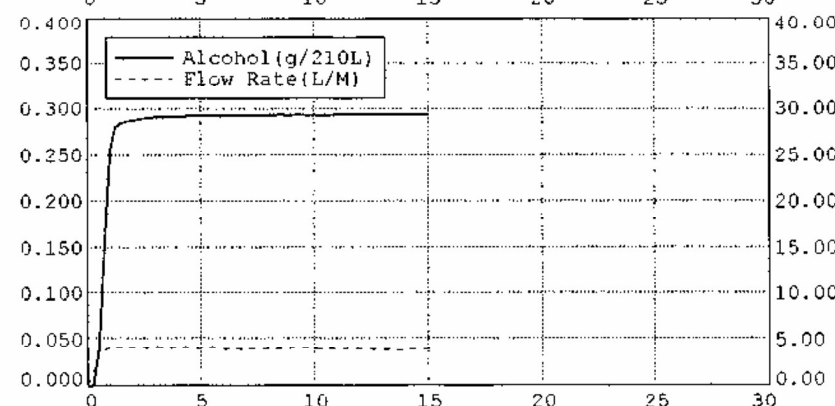
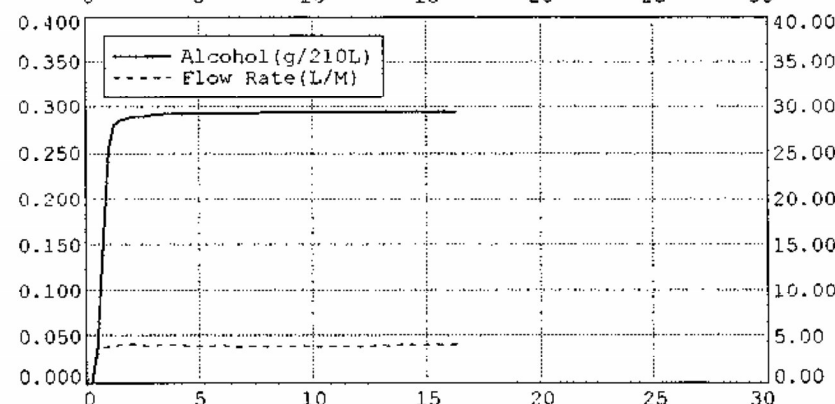
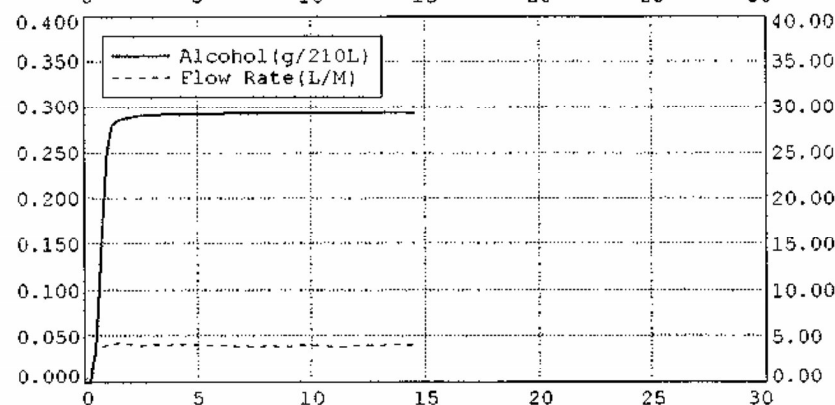
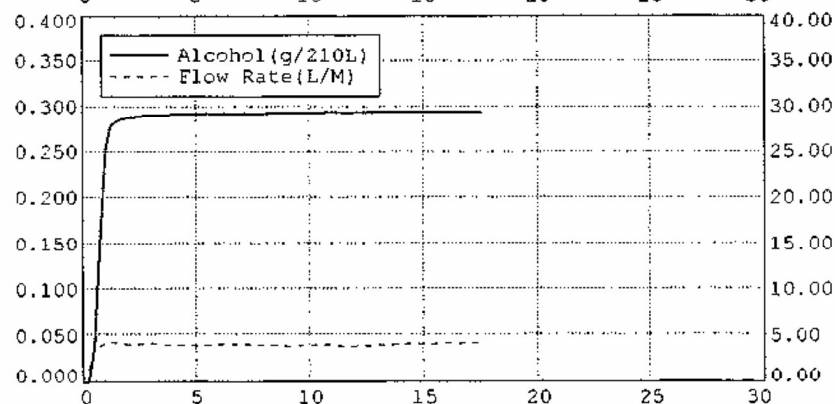
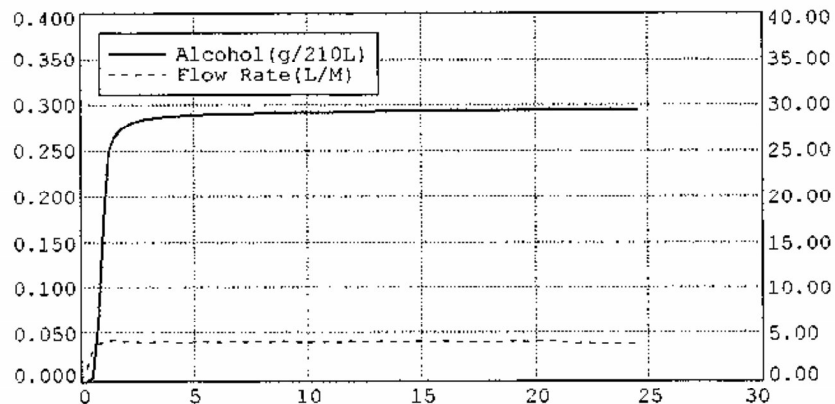
Date: 04/20/2015
Time: 15:10:52

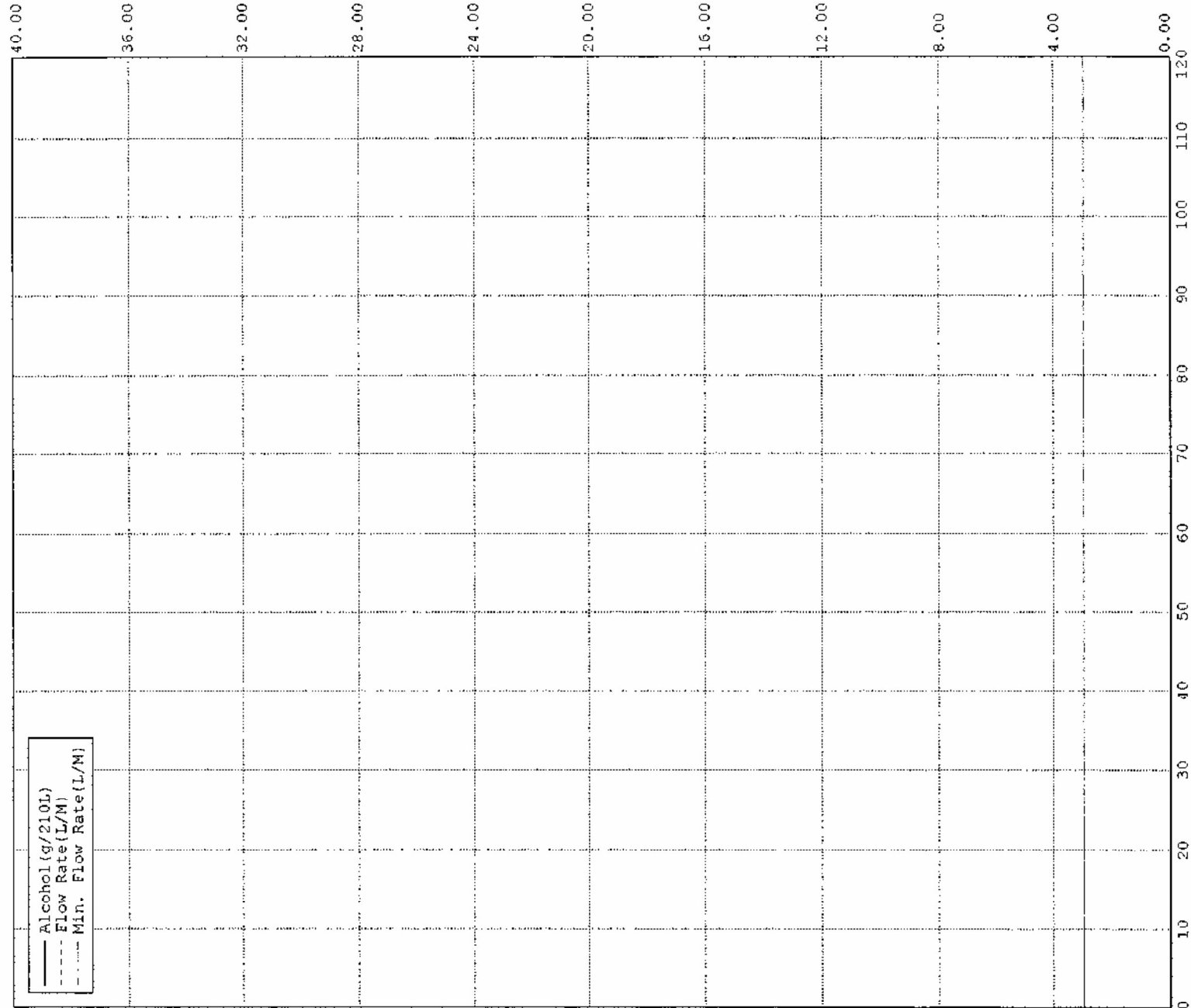
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 14270
EXPIRATION: 12/02/2016

BLANK TEST	0.000	15:11
INTERNAL STANDARD	VERIFIED	15:12
EXTERNAL STANDARD	0.295	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.294	15:13
BLANK TEST	0.000	15:14
EXTERNAL STANDARD	0.294	15:15
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.295	15:16
BLANK TEST	0.000	15:17
EXTERNAL STANDARD	0.294	15:17
BLANK TEST	0.000	15:18

Average = 0.2944
Std Dev = 0.0005





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 04/22/2015
Time: 15:20:30

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

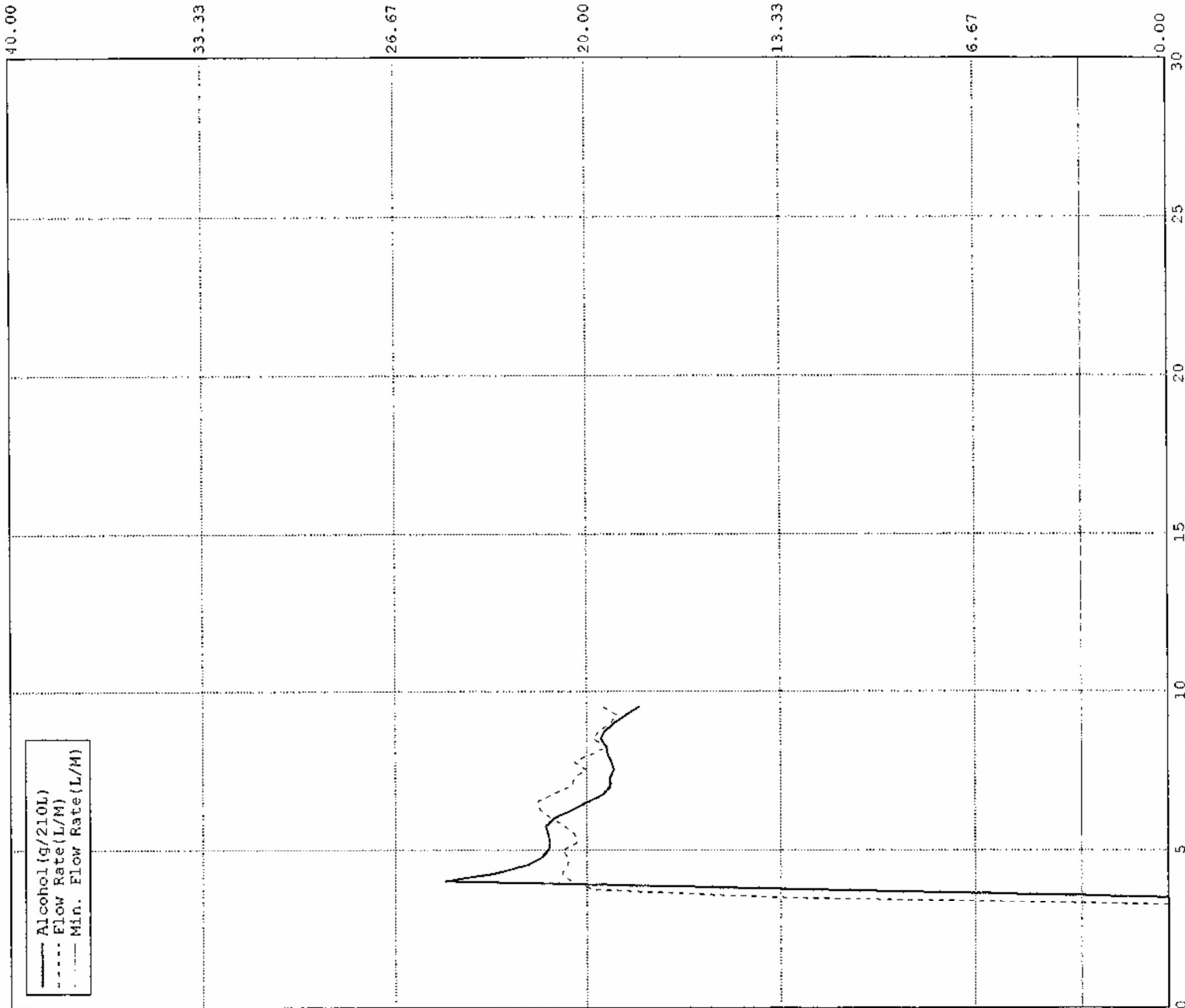
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:21
BLANK TEST	0.000	15:22
INTERNAL STANDARD	VERIFIED	15:22
EXTERNAL STANDARD	0.079	15:22
BLANK TEST	0.000	15:23
SUBJECT SAMPLE	INCOMPLETE	15:25

CB



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100666

Date: 04/22/2015

Time: 15:27:29

SUBJECT NAME:

TEST TEST

LICENSE #: INVALID

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 15-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.78: 0.080

LOT #: 11313080A1

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

PASSED 15:28

BLANK TEST

0.000 15:28

INTERNAL STANDARD

VERIFIED 15:28

0.079 15:29

EXTERNAL STANDARD

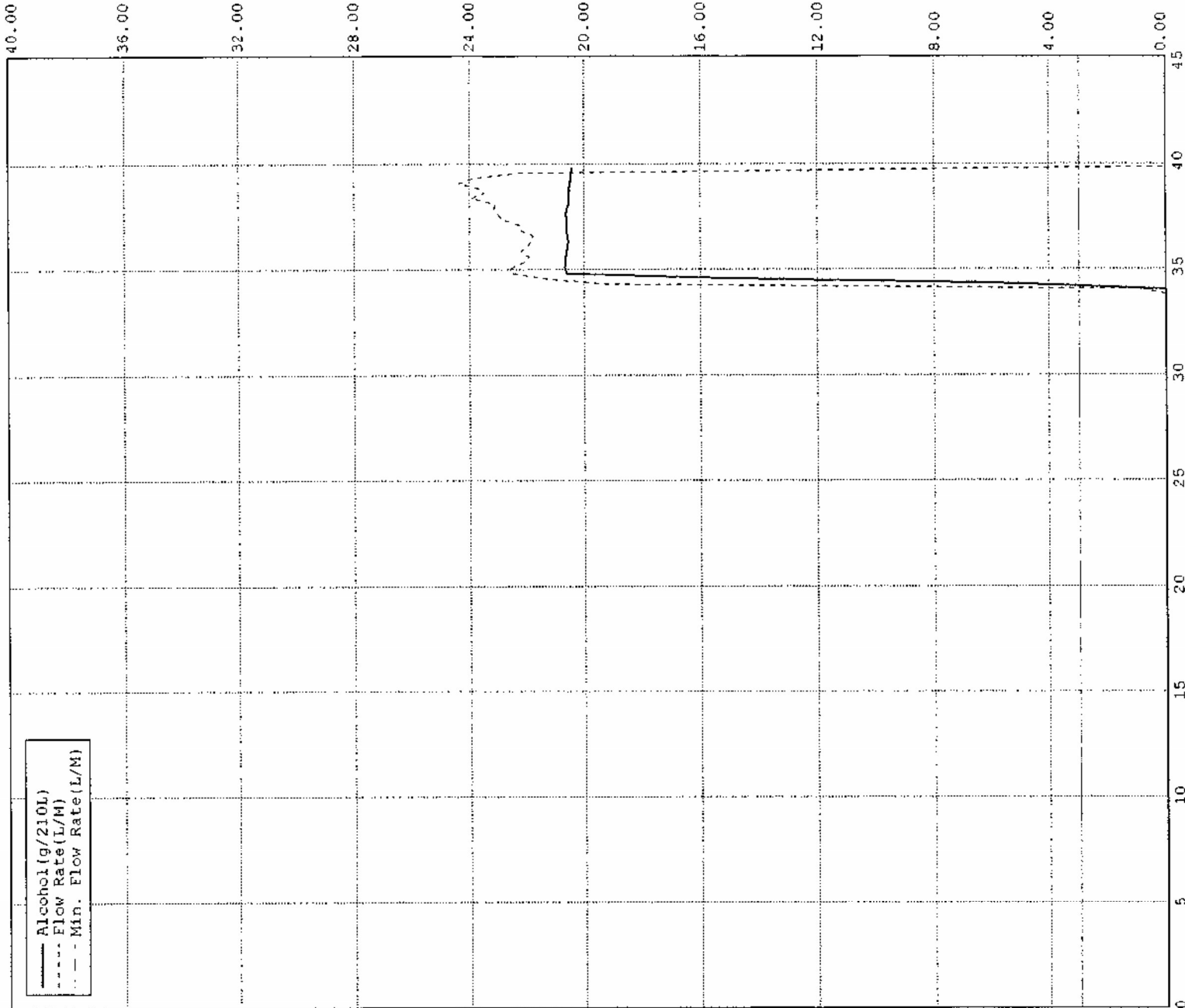
0.000 15:29

BLANK TEST

INVALID 15:30

SUBJECT SAMPLE

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 04/22/2015
Time: 15:35:59

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

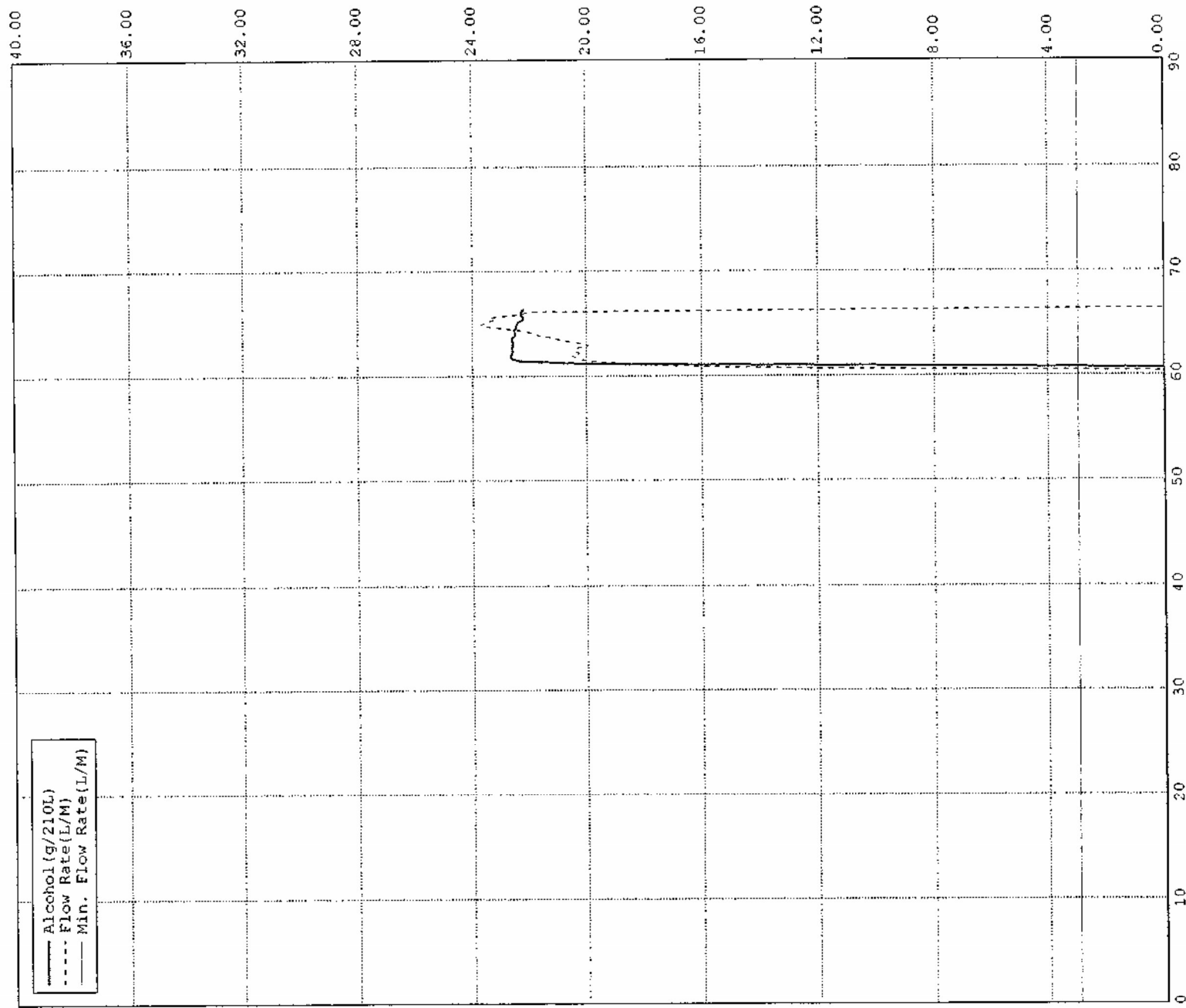
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:39
BLANK TEST	0.000	15:39
INTERNAL STANDARD	VERIFIED	15:39
Xq = 0.088 (2.34%)		
EXTERNAL STANDARD	0.079	15:39
X[1] = 0.0791 (-0.0014)	(0.0016)	
BLANK TEST	0.000	15:40
SUBJECT SAMPLE	XXX	15:41
X[1] = 0.1022 (-0.0178)	(0.0005)	

Interference Detected

Filter 2 average: -0.0015
Filter 3 average: 0.0019

[Signature]



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 04/22/2015
Time: 15:44:27

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

DEPT/AGENCY:
AAAI

CASE/REPORT: 15-1234
TEST TYPE: TEST

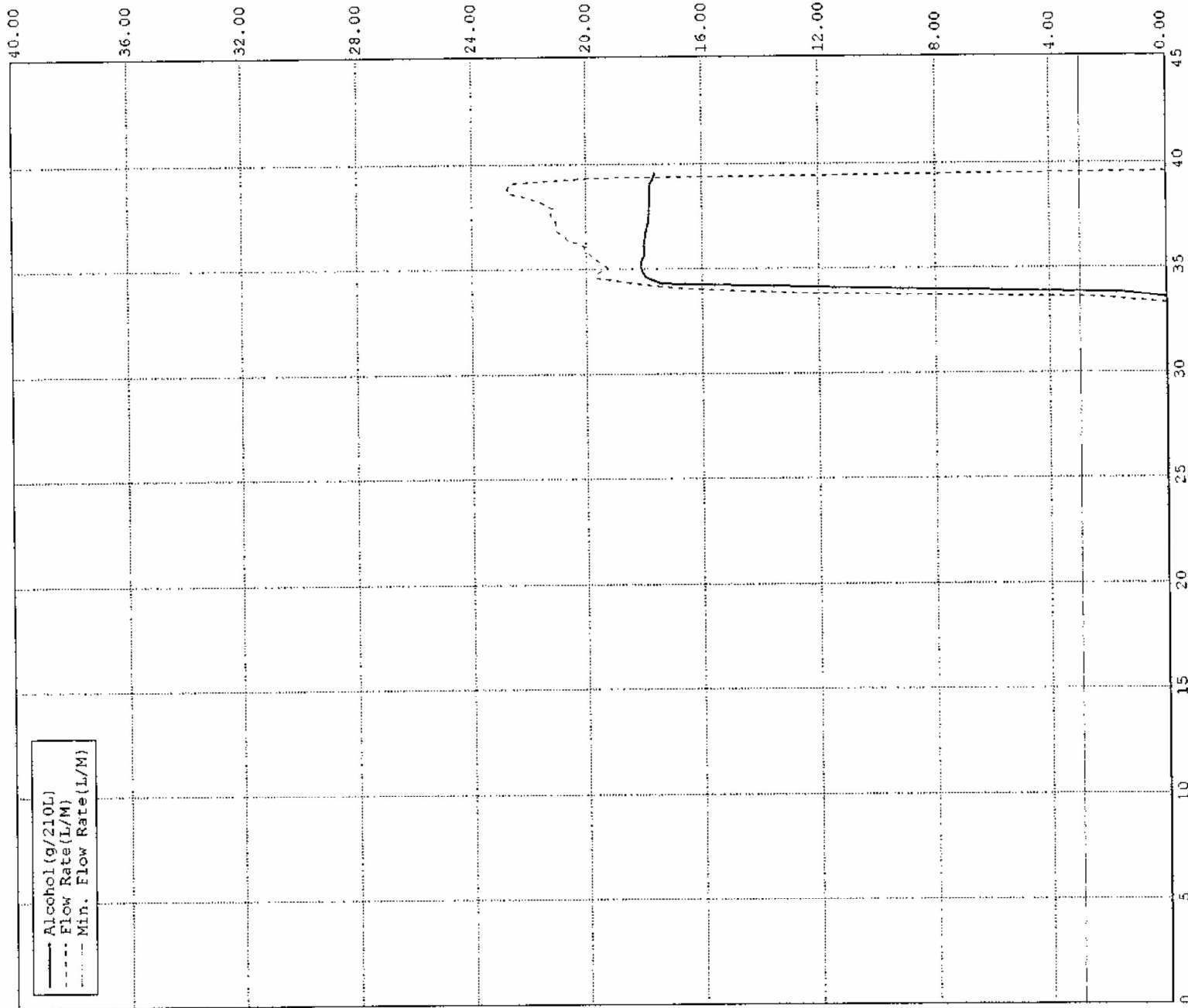
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK PASSED 15:45
BLANK TEST 0.000 15:46
INTERNAL STANDARD VERIFIED 15:46
Xg = 0.088 (2.34%)
EXTERNAL STANDARD 0.079 15:46
X[1] = 0.0790 (-0.0016) (0.0020)
BLANK TEST 0.000 15:47
SUBJECT SAMPLE XXX 15:48
X[1] = 0.1110 (-0.0203) (0.0006)

Interference Detected

CB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

Date: 04/22/2015
 Time: 15:52:10

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEGATIVE

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

DEPT/AGENCY:
 AAA1

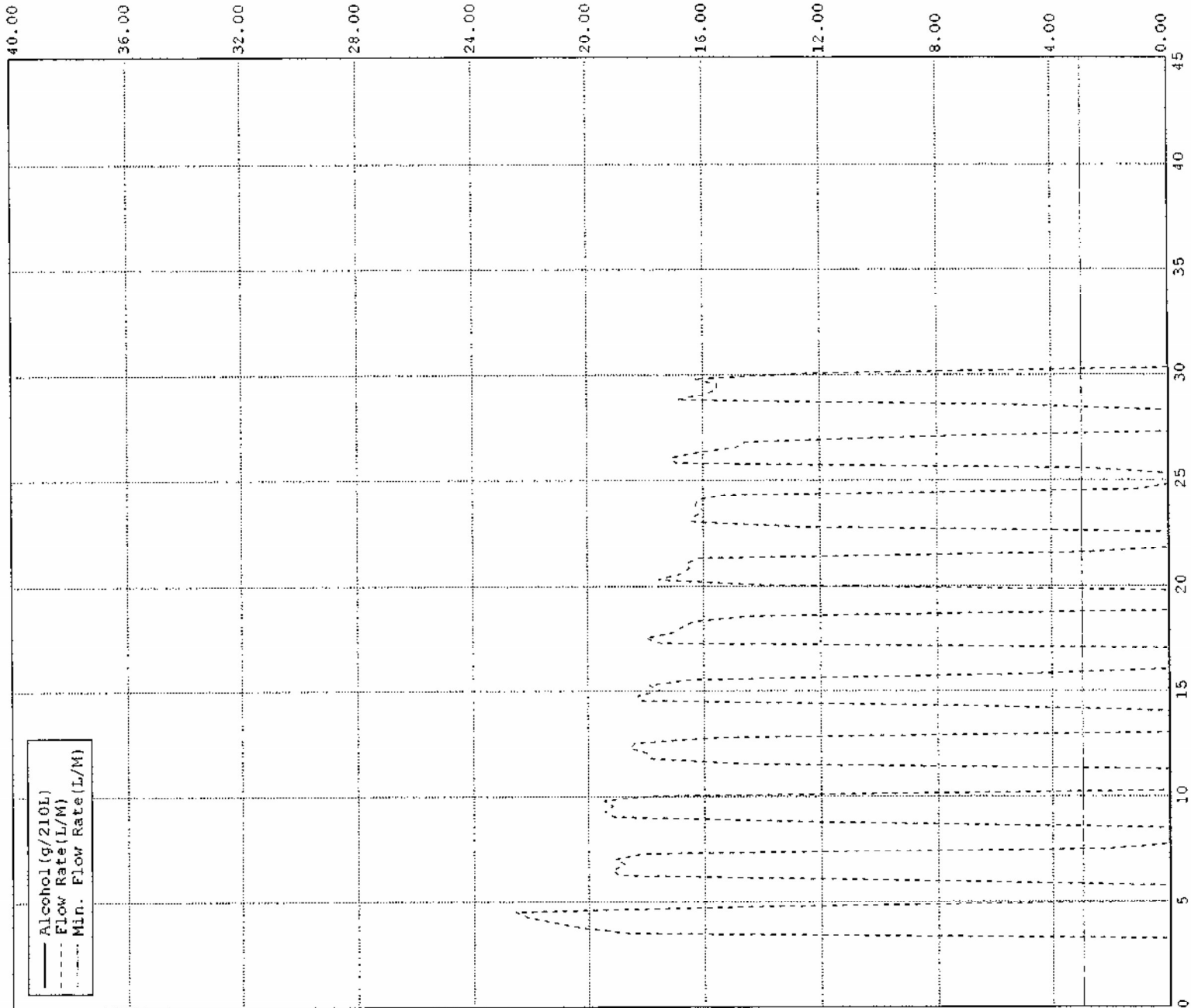
CASE/REPORT: 15-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.77: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:53
BLANK TEST	0.000	15:53
INTERNAL STANDARD	VERIFIED	15:53
$X_q = 0.088$ (2.44%)		
EXTERNAL STANDARD	0.079	15:53
$X[1] = 0.0789$ (-0.0013)	(0.0024)	
BLANK TEST	0.000	15:54
SUBJECT SAMPLE (Vol=1.93L)	0.088	15:55
$X[1] = 0.0884$ (-0.0003)	(0.0007)	
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.079	15:56
$X[1] = 0.0788$ (-0.0016)	(0.0017)	
BLANK TEST	0.000	15:57

(203)



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100666

Date: 04/23/2015
Time: 08:28:55

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

DEPT/AGENCY:
AAA1

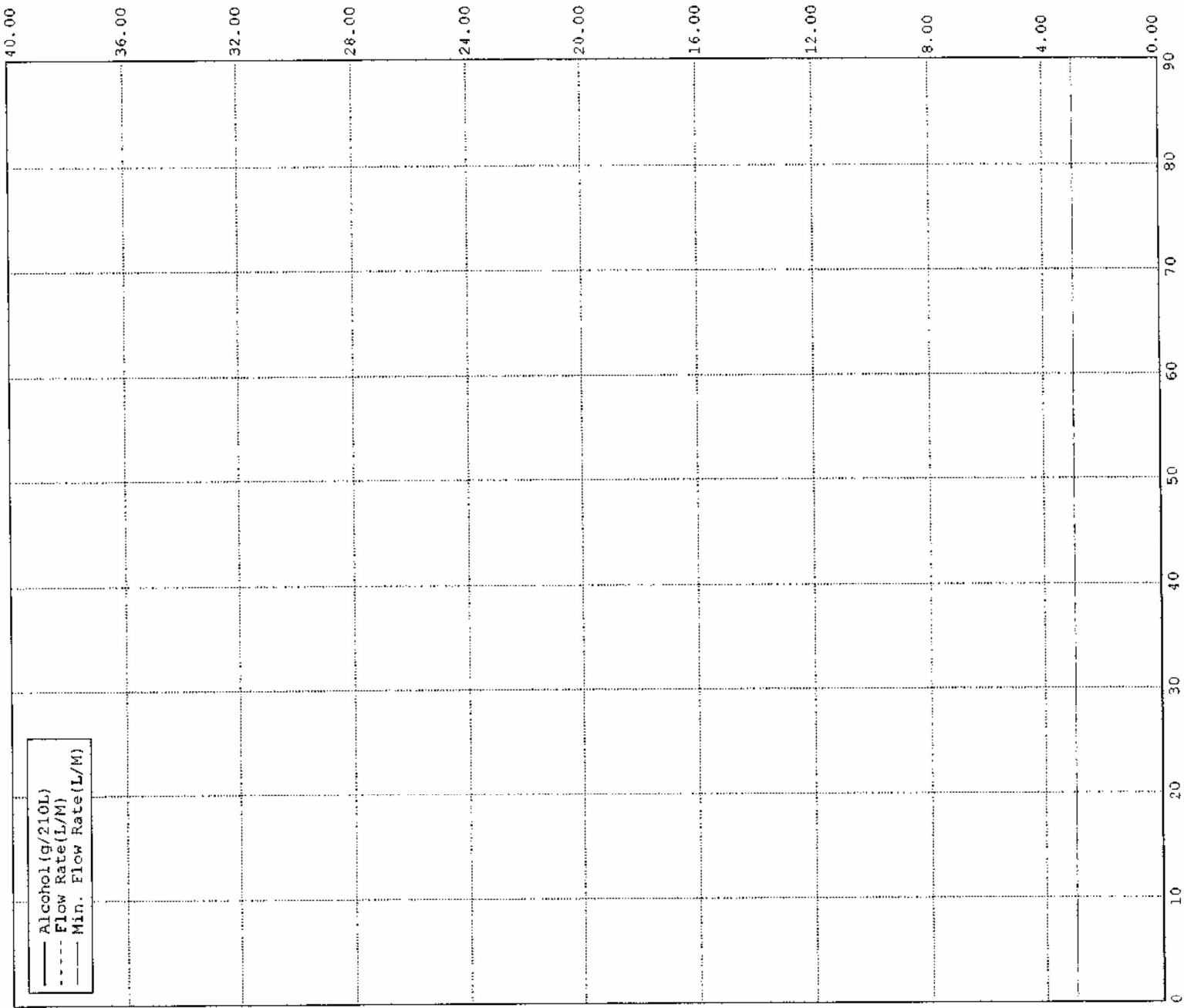
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.75: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK PASSED 08:32
BLANK TEST 0.000 08:32
INTERNAL STANDARD VERIFIED 08:32
EXTERNAL STANDARD 0.079 08:32
BLANK TEST 0.000 08:33
SUBJECT SAMPLE XXX 08:34

Maximum Attempts Exceeded

CB



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100666

Date: 04/23/2015

Time: 08:36:26

SUBJECT NAME:

TEST TEST

LICENSE #: RFI

OPERATOR NAME:

COLLEEN S OBRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 15-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.74: 0.080

LOT #: 11313080A1

EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

PASSED 08:38

0.000 08:38

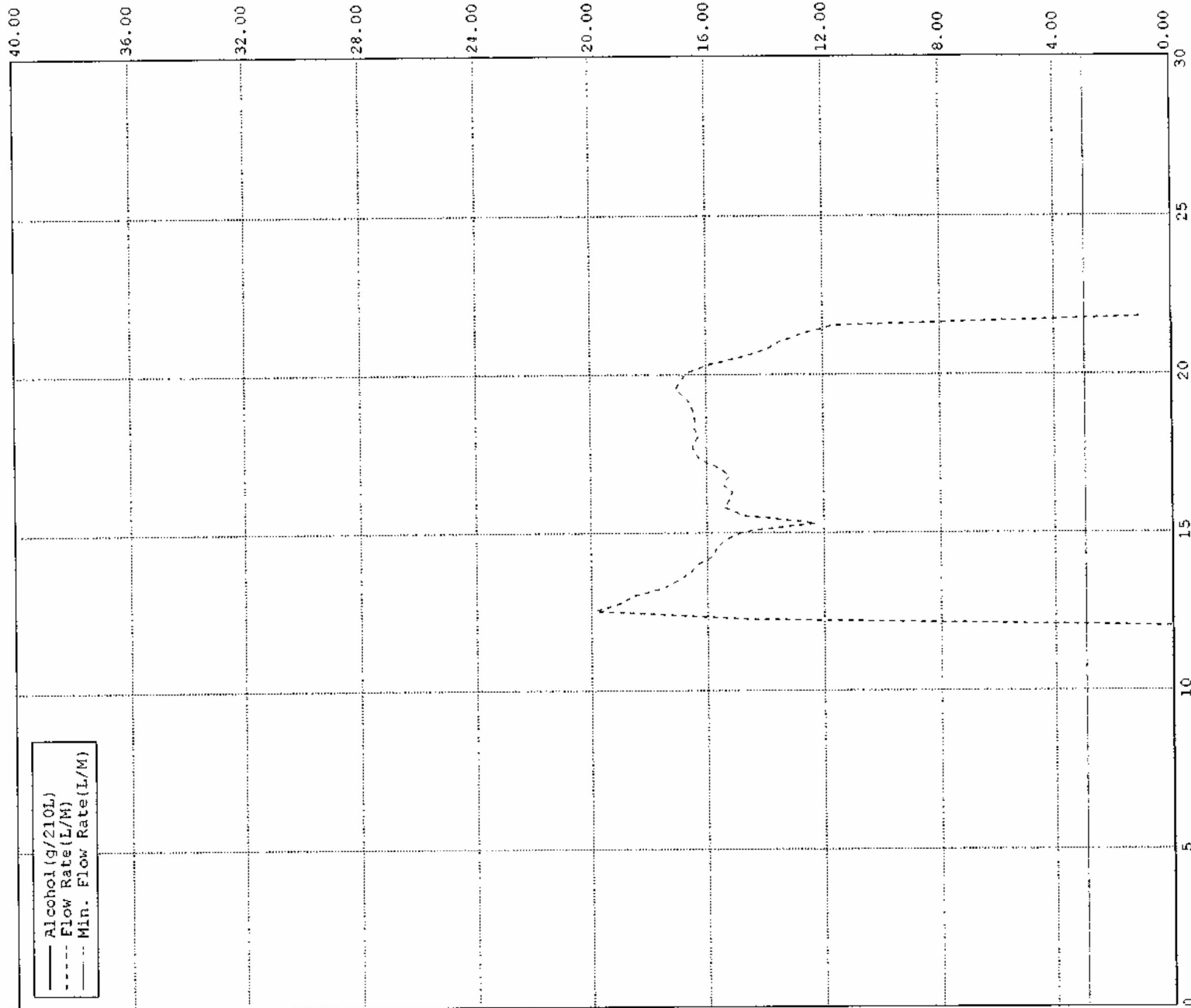
VERIFIED 08:38

0.079 08:38

0.000 08:39

RFI DETECTED

OK



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

Date: 04/23/2015
 Time: 08:55:22

SUBJECT NAME:
 TEST TEST
 LICENSE #: NONDRINKING

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 15-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.74: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	08:58
BLANK TEST	0.000	08:58
INTERNAL STANDARD	VERIFIED	08:58
EXTERNAL STANDARD	0.079	08:58
BLANK TEST	0.000	08:59
SUBJECT SAMPLE (Vol=2.51L)	0.000	08:59
BLANK TEST	0.000	09:00
EXTERNAL STANDARD	0.080	09:00
BLANK TEST	0.000	09:01

CS