

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMCEF 2015 R1
Status: Active

Instrument S/N 100358 Analyst C. O. Bryant Start Date 8/5/15

1. Diagnostic Test (attached) Internal Standard value $\leq 3.00\%$ Yes

1. Voltage Checks

a. Adjust voltages, if needed

i. Lamp (2.6V Maximum)

ii. Bias

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 1.6 L (1.3L to 1.7L)

4. 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 07214080A1 Exp 4/1/16

iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17

v. 0.200g/210L Mnf Both Lot 13220 Exp 8/5/15

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

vi. 0.300g/210L Mnf Both Lot 14270 Exp 12/2/16

1. Simulator S/N DR6267 Date Calibrated 1/20/15

5. 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 DR4163 Date Calibrated 1/19/15

ii. Isopropanol - Mnf Both Lot 15050 Level 0.100 Exp 3/9/17

1. Simulator S/N SD1176 Date Calibrated 1/20/15

iii. Negative Control - Mnf Both Lot 15050 Level 0.100 Exp 3/9/17

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

e. RFI

6. Verify stylus is calibrated

9. Verification of Calibration

7. Reset Options

10. Non-Drinking Subject Test (attached)

8. Clear Memory

11. Upload

13. Remove tank prior to shut down

End Date 8/6/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 08/05/2015
Time: 09:29:39

VERSIONS

DMT: 3.01
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.68 V PASSED
(1.02 V - 2.38 V)
Cooler Voltage = 1.71 V PASSED
(1.04 V - 2.42 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 537 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 5.160 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.002 V <= 0.010 V)
PUMP OFF PASSED
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.111 0.47% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100358

Date: 08/05/2015

Time: 9:41 AM

Temperatures (°C)

Sample Cell: 48.6°C

Breath Tube: 47.9°C

Current Barometer 29.7 in

Volume (Ltr) 1.48

Settings

Lamp: 1.70 V

Bias: 80 V

Cooler: 1.71 V

Chopper: 536 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.031 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 05/01/2015
Time: 10:44:45

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

Ca = 0.1000
CAL = 0.983330 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0059 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1117 0.0500 <= Xq < 0.2000
a21 = 1.207711 1.050 <= a21 < 1.300
a31 = 0.426403 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 08/05/2015
Time: 10:23:56

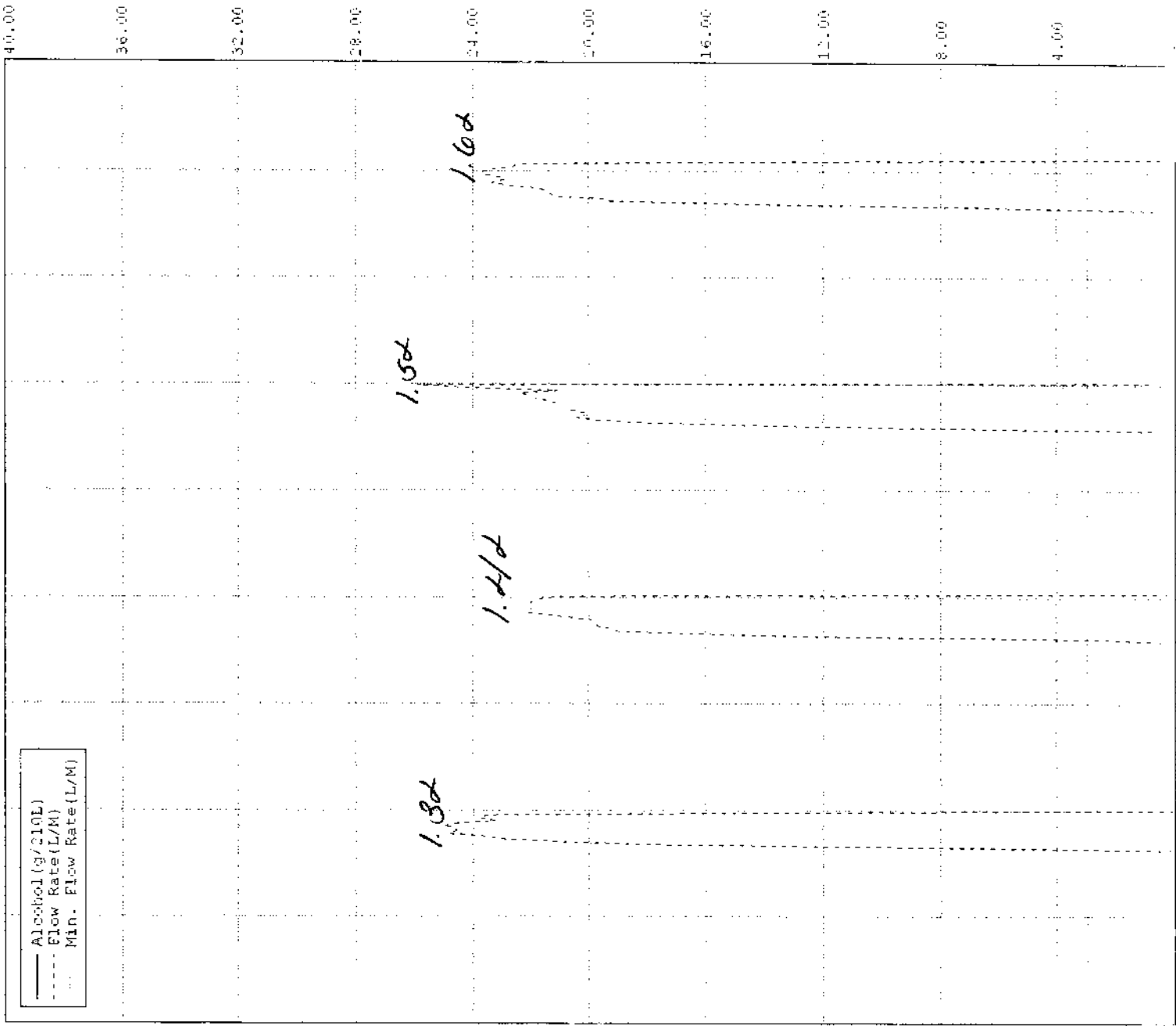
SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: 07214080A1
EXPIRATION: 04/01/2016

DIAGNOSTIC CHECK	PASSED	10:25
BLANK TEST	0.000	10:25
INTERNAL STANDARD	VERIFIED	10:25
EXTERNAL STANDARD	0.077	10:25
BLANK TEST	0.000	10:26
SUBJECT SAMPLE (Vol=1.53L)	0.000	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.075	10:29
BLANK TEST	0.000	10:30



LINEARITY CHECK

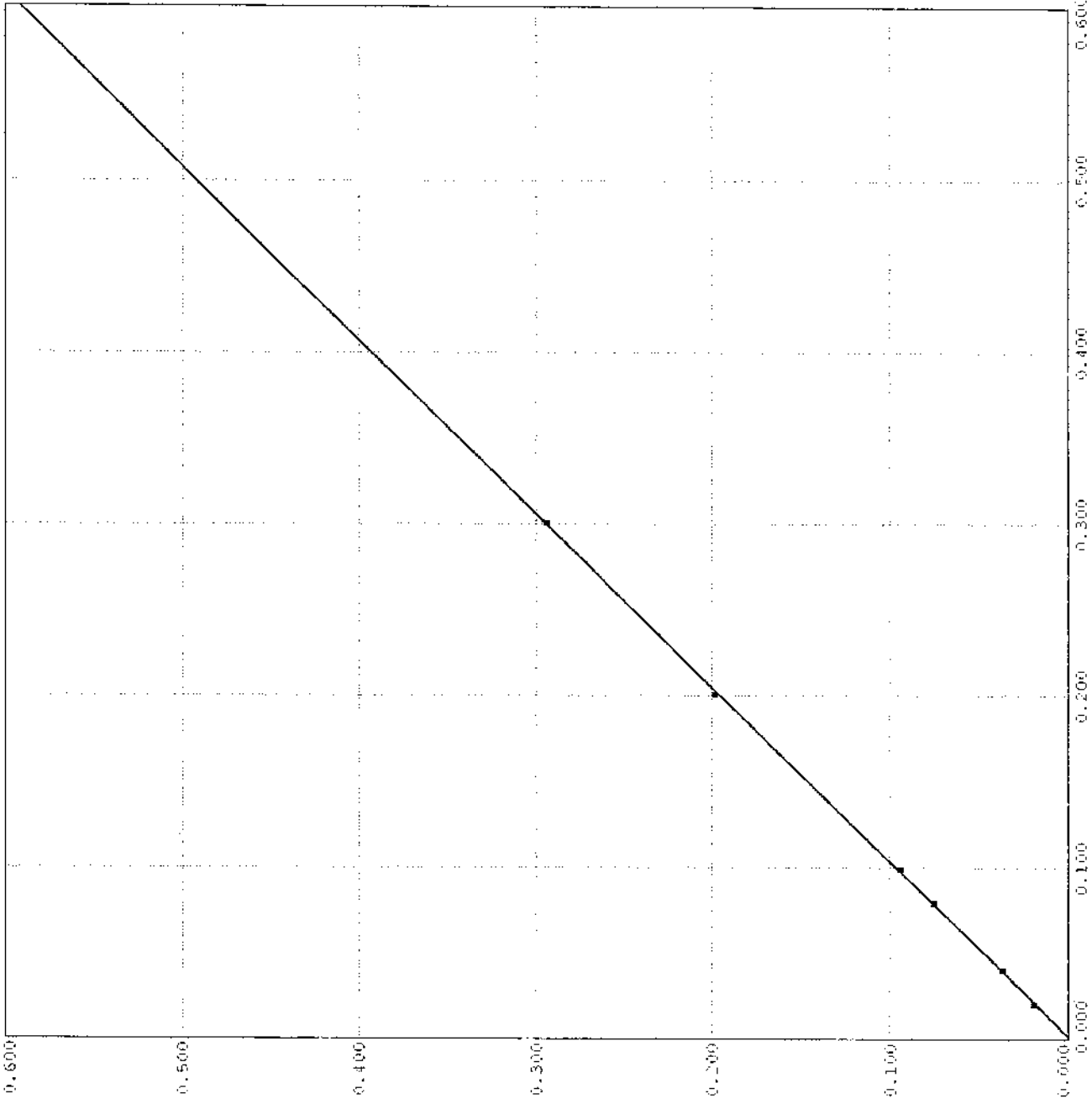
 Alaska Department of Public Safety
 DATAMASTER dmt: 100358

Date: 08/05/2015
 Time: 10:38:12

SUPERVISOR NAME:
 COLLEEN S OBRVANT
 OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0380	0.0007
0.079	0.0760	0.0000
0.099	0.0952	0.0004
0.200	0.1990	0.0007
0.300	0.2946	0.0009

SLOPE = 0.988762
 R² = 0.999788



CRB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

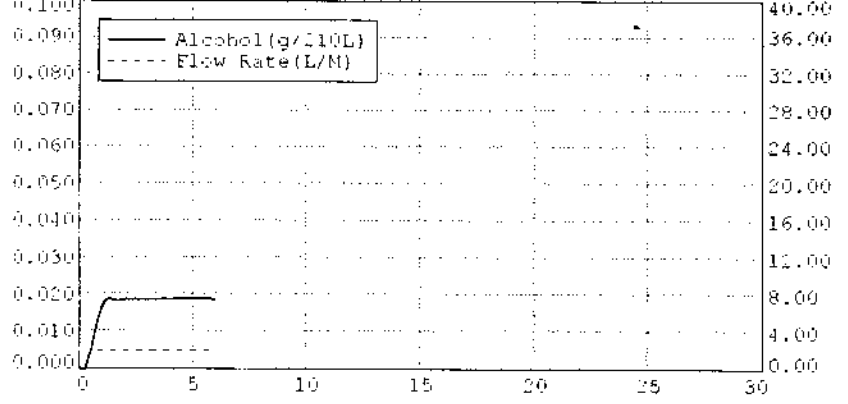
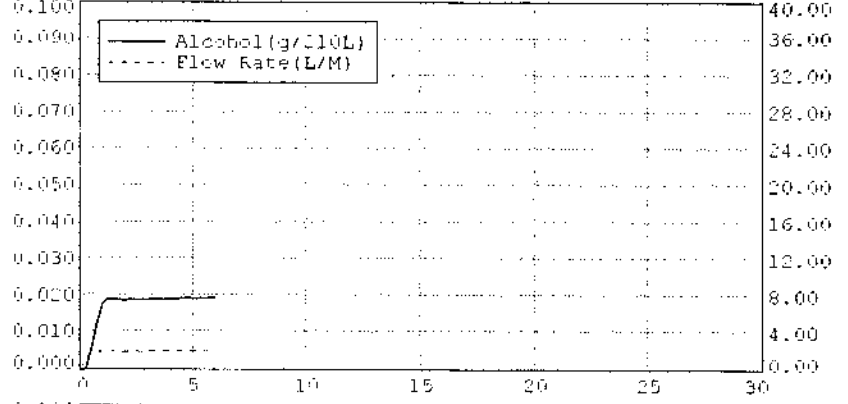
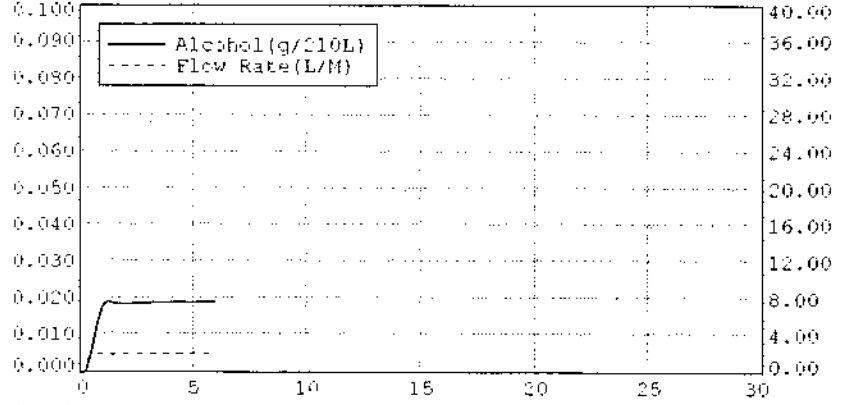
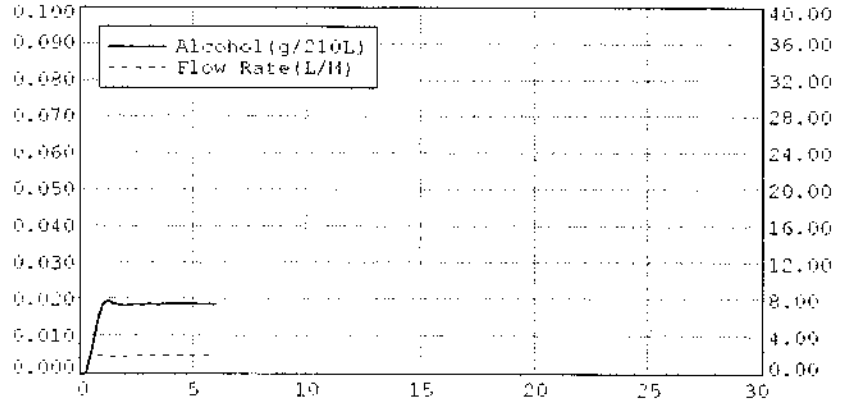
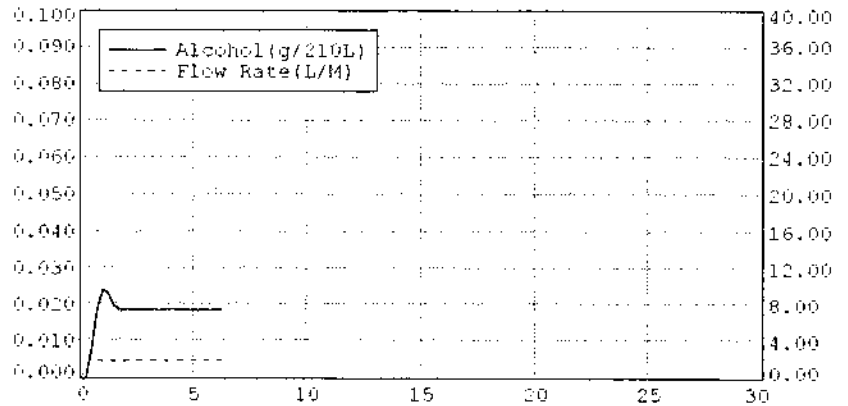
Date: 08/05/2015
 Time: 10:38:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.65: 0.020
 LOT #: ~~0291402072~~ *0291502093* *008 8/5/15*
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 601 psi

BLANK TEST	0.000	10:41
INTERNAL STANDARD	VERIFIED	10:41
EXTERNAL STANDARD	0.020	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.020	10:43
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.020	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.020	10:45
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.020	10:46
BLANK TEST	0.000	10:47

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

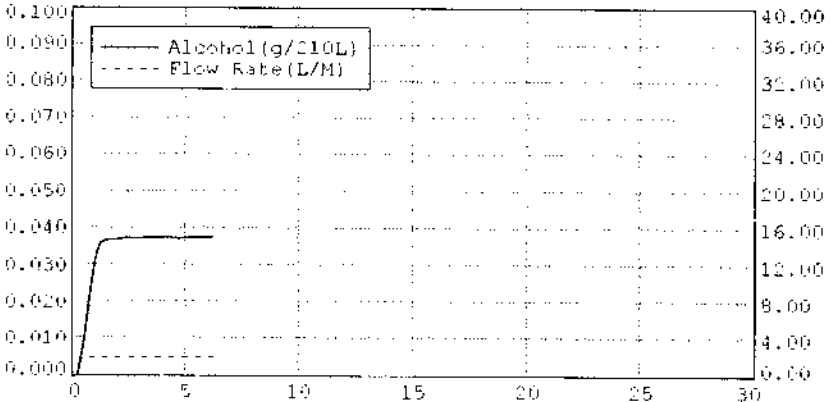
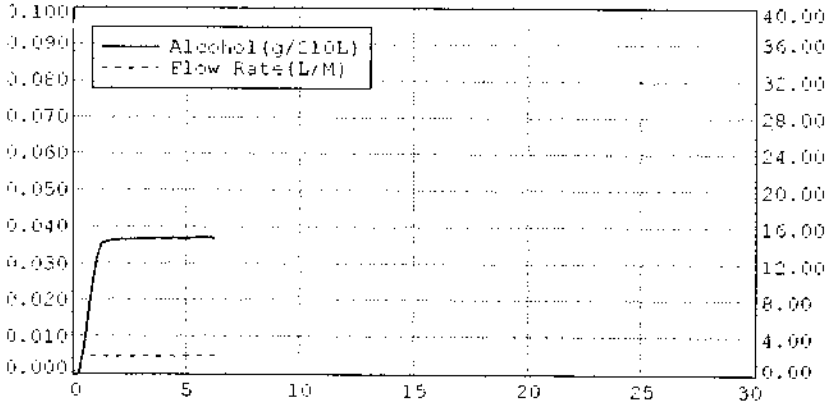
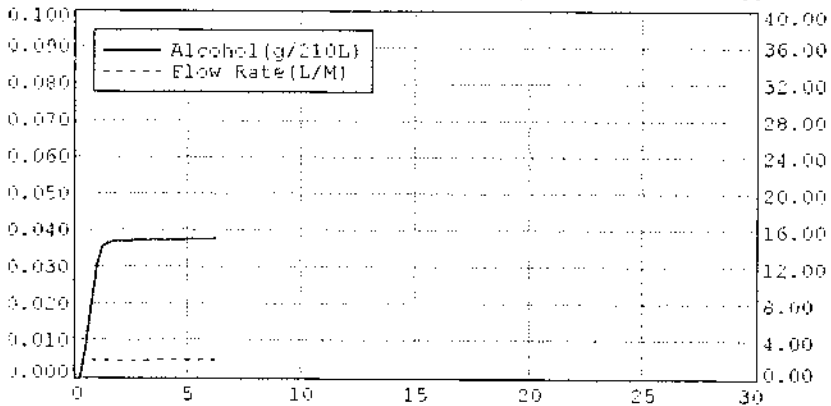
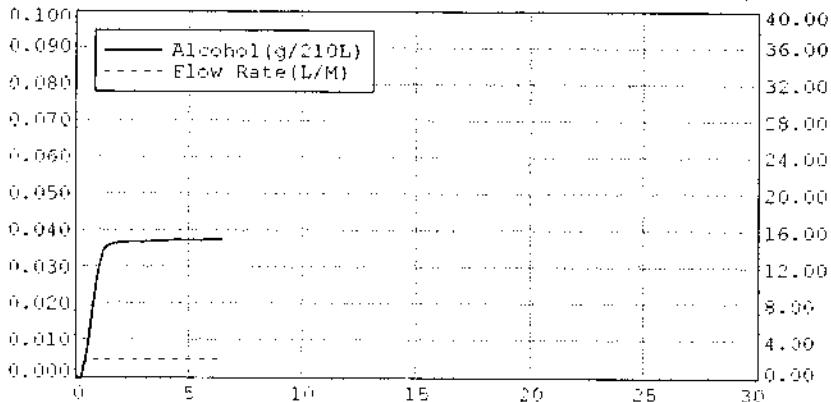
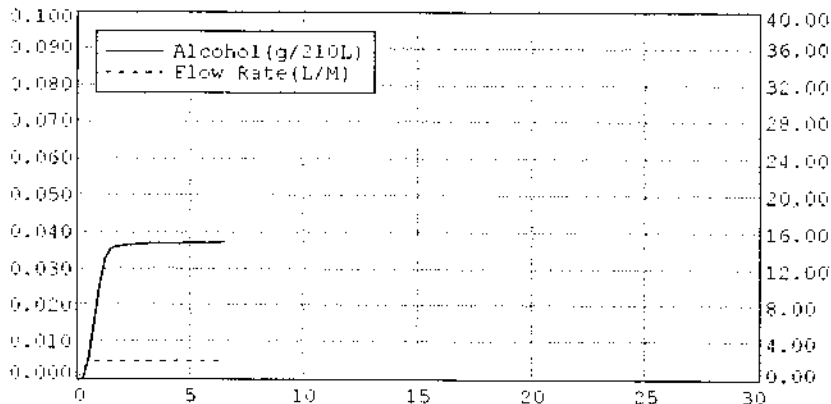
Date: 08/05/2015
 Time: 10:47:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.65: 0.040
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 705 psi

BLANK TEST	0.000	10:49
INTERNAL STANDARD	VERIFIED	10:50
EXTERNAL STANDARD	0.038	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.038	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.037	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.038	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.039	10:54
BLANK TEST	0.000	10:55

Average = 0.0380
 Std Dev = 0.0007



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

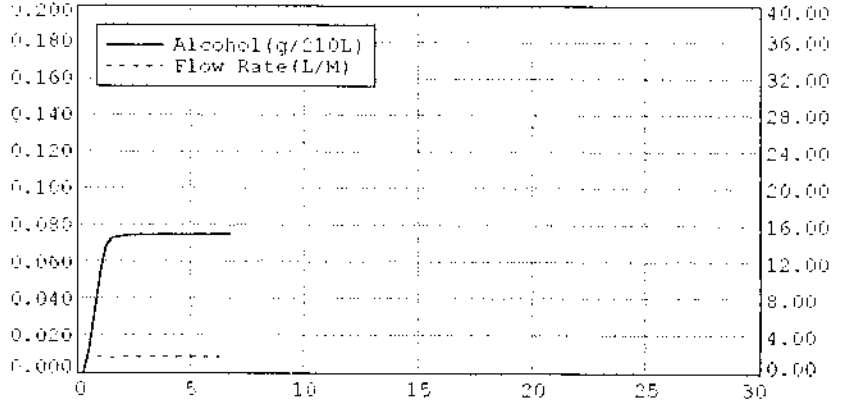
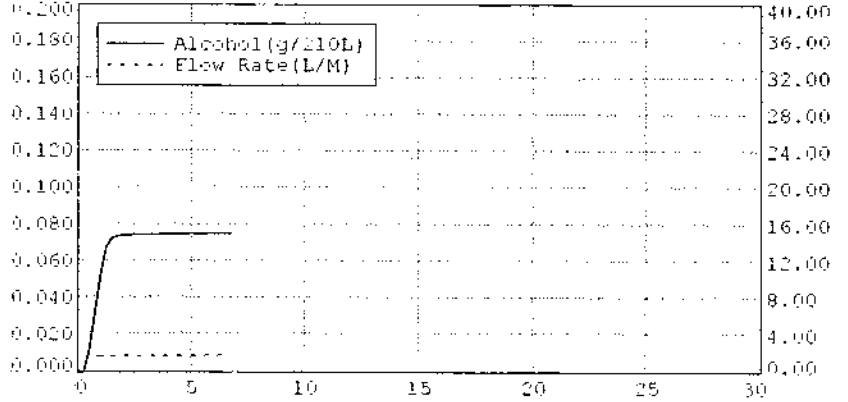
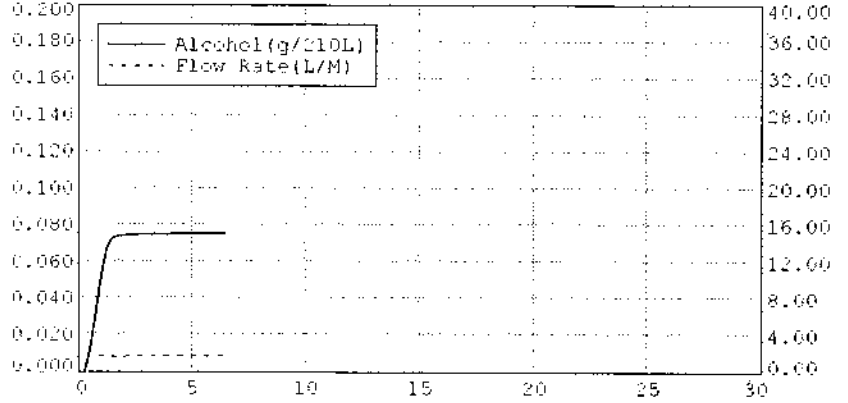
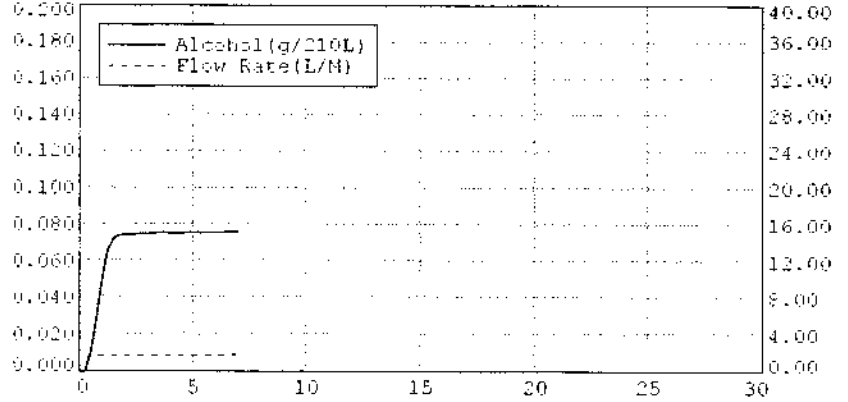
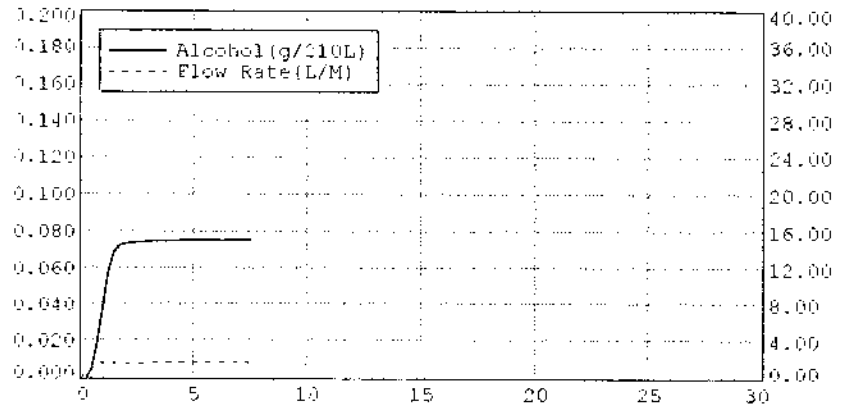
Date: 08/05/2015
 Time: 10:55:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.65: 0.079
 LOT #: 07214080A1
 EXPIRATION: 04/01/2016
 TANK PRESSURE: 266 psi

BLANK TEST	0.000	10:58
INTERNAL STANDARD	VERIFIED	10:58
EXTERNAL STANDARD	0.076	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.076	10:59
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.076	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.076	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.076	11:03
BLANK TEST	0.000	11:04

Average = 0.0760
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

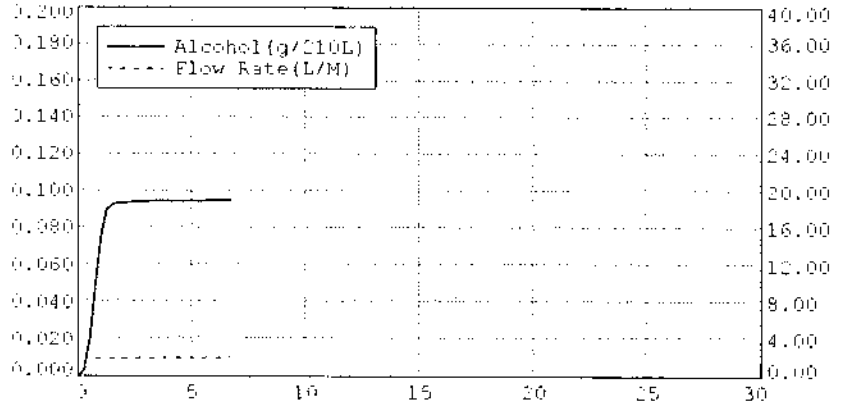
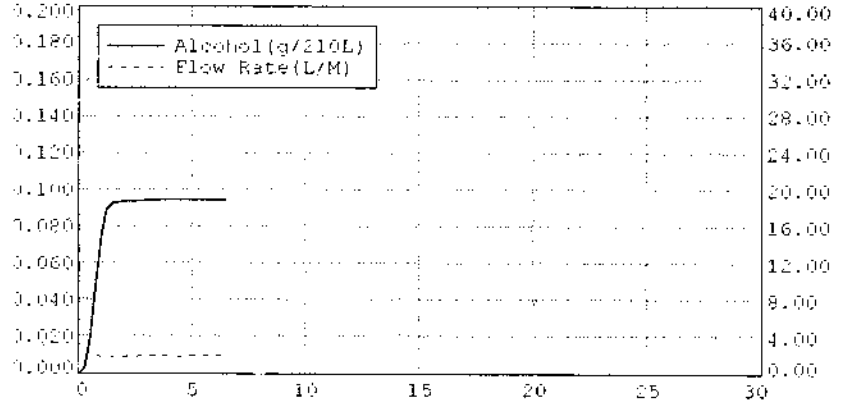
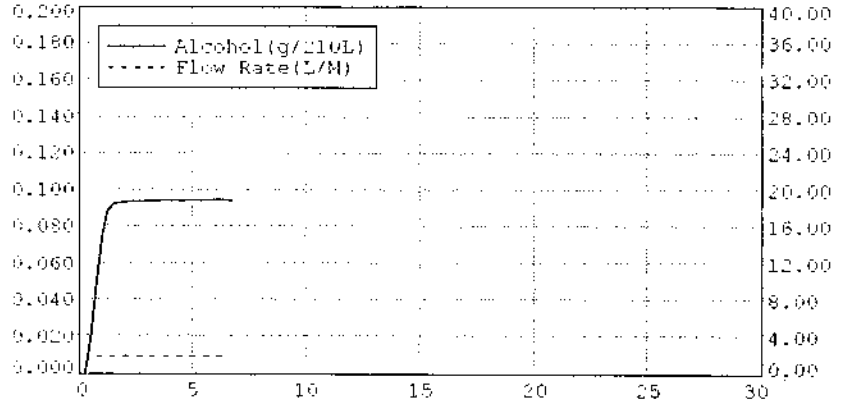
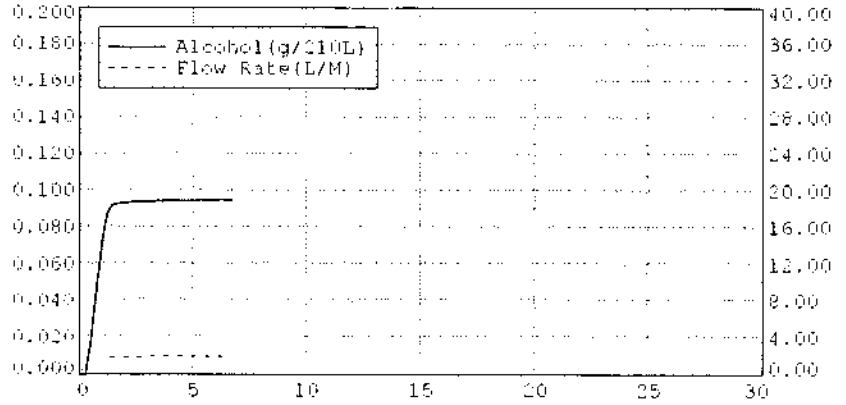
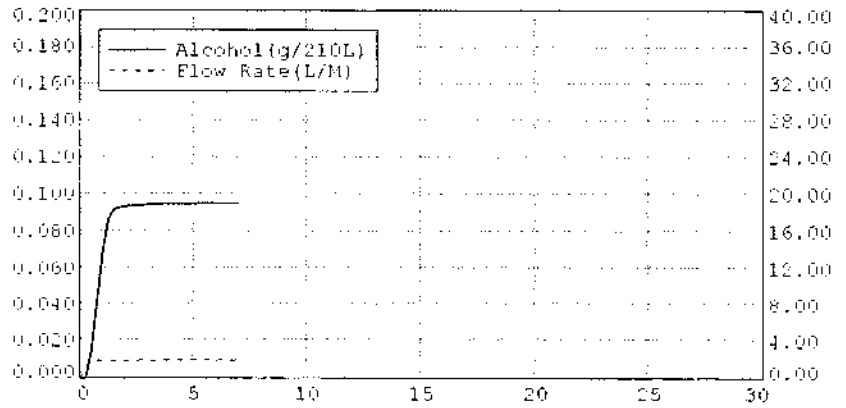
Date: 08/05/2015
 Time: 11:08:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.66: 0.099
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 569 psi

BLANK TEST	0.000	11:09
INTERNAL STANDARD	VERIFIED	11:09
EXTERNAL STANDARD	0.096	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.095	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.095	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.095	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.095	11:14
BLANK TEST	0.000	11:15

Average = 0.0952
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

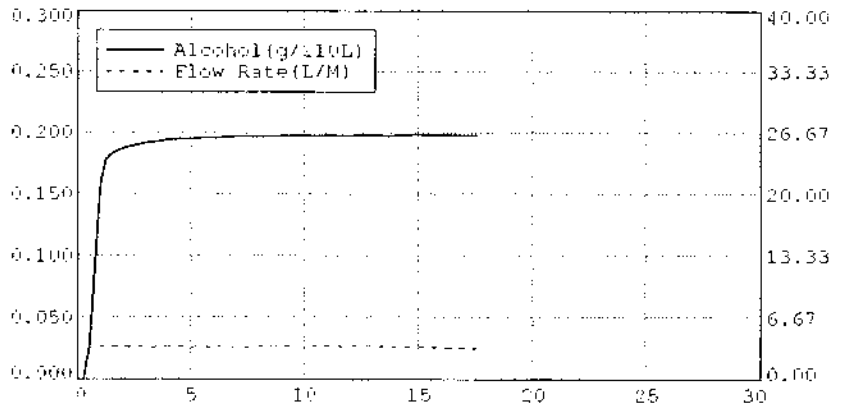
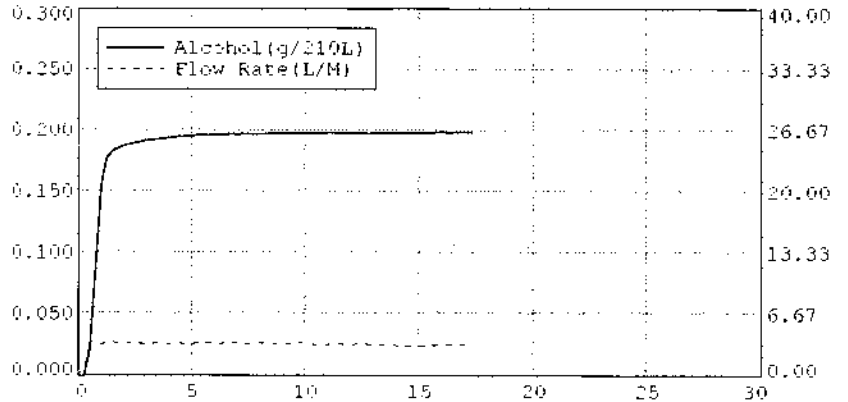
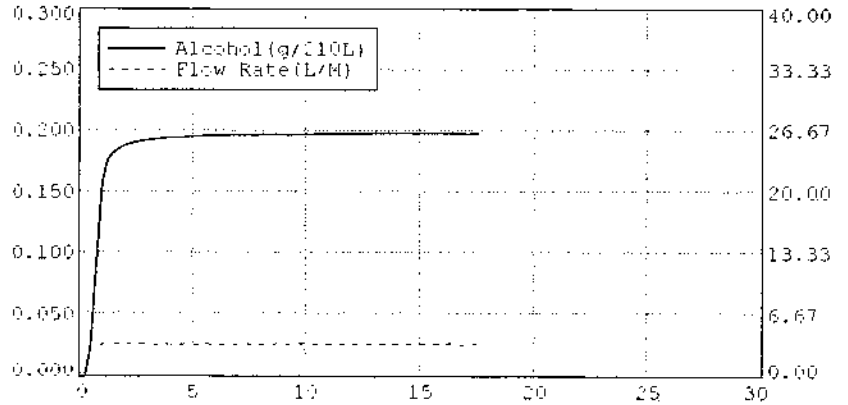
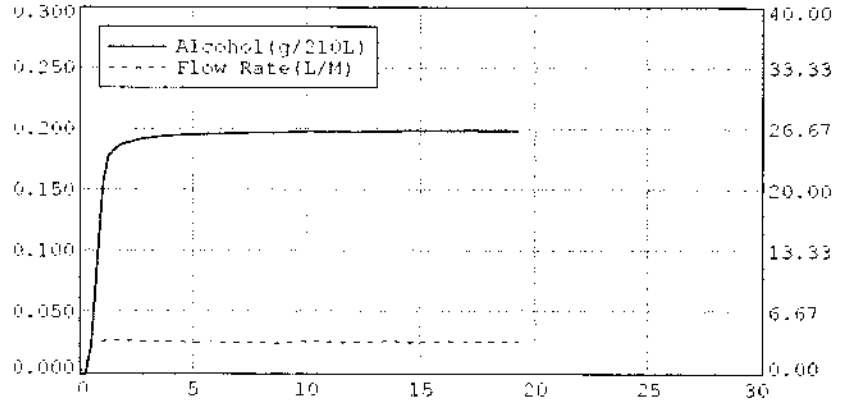
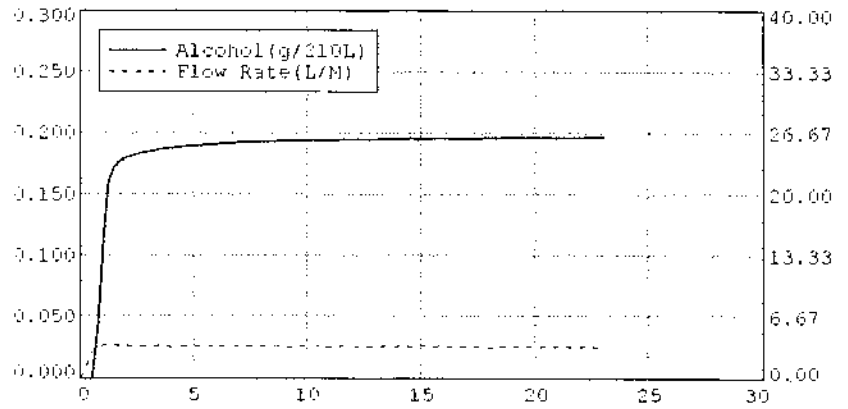
Date: 08/05/2015
 Time: 11:15:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 13220
 EXPIRATION: 08/05/2015

BLANK TEST	0.000	11:17
INTERNAL STANDARD	VERIFIED	11:17
EXTERNAL STANDARD	0.198	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.200	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.199	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.199	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.199	11:23
BLANK TEST	0.000	11:24

Average = 0.1990
 Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

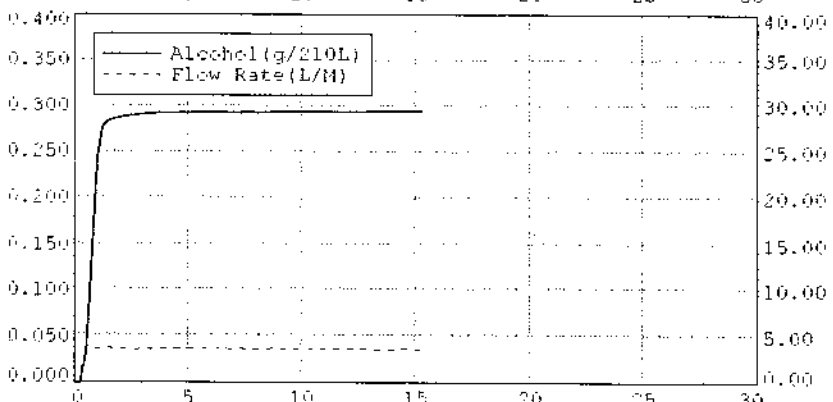
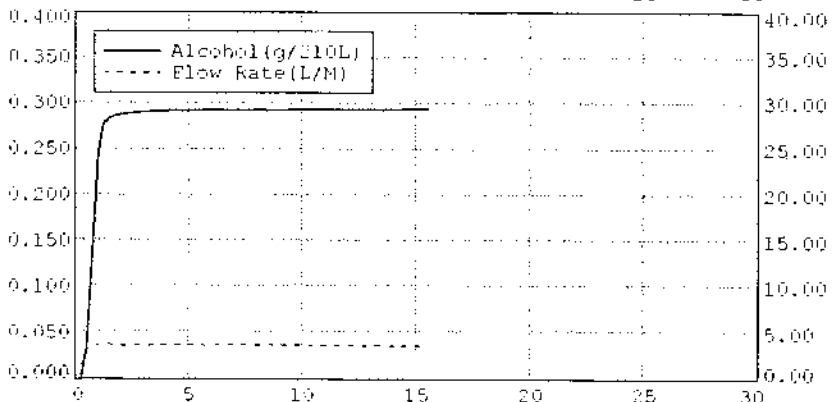
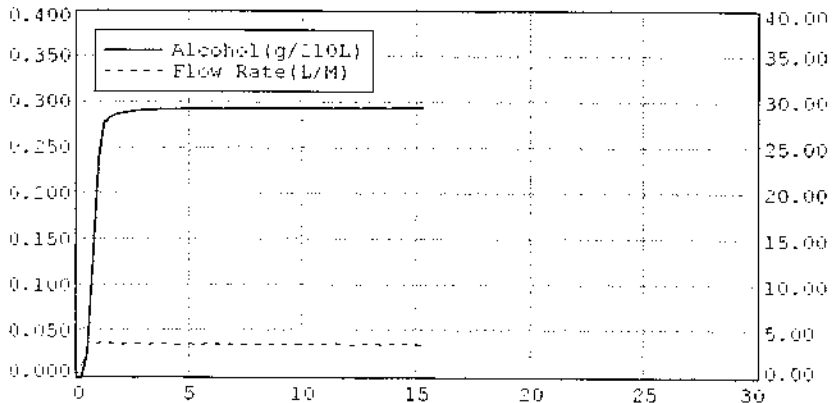
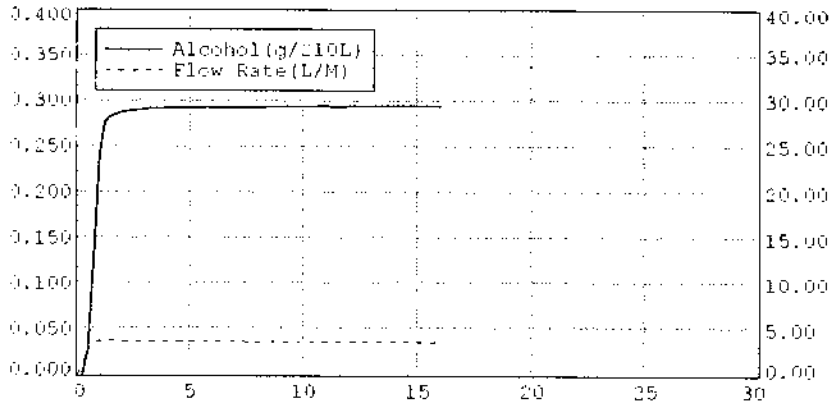
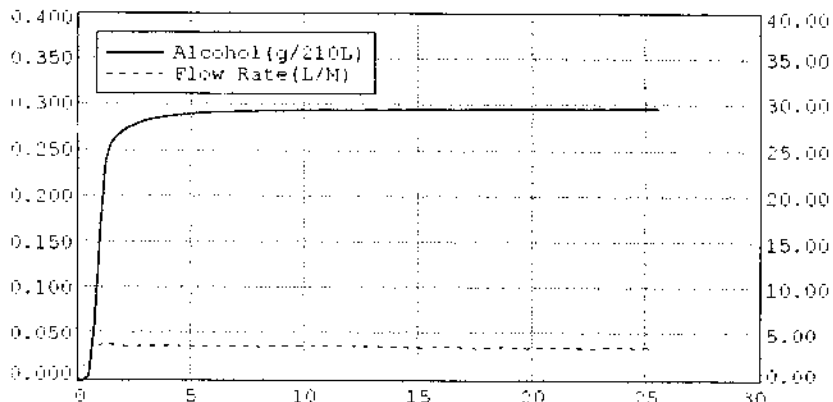
Date: 08/05/2015
 Time: 11:25:22

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:26
INTERNAL STANDARD	VERIFIED	11:26
EXTERNAL STANDARD	0.296	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.295	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.294	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.294	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.294	11:32
BLANK TEST	0.000	11:33

Average = 0.2946
 Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dme: 100358

Date: 08/05/2015
Time: 11:47:34

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

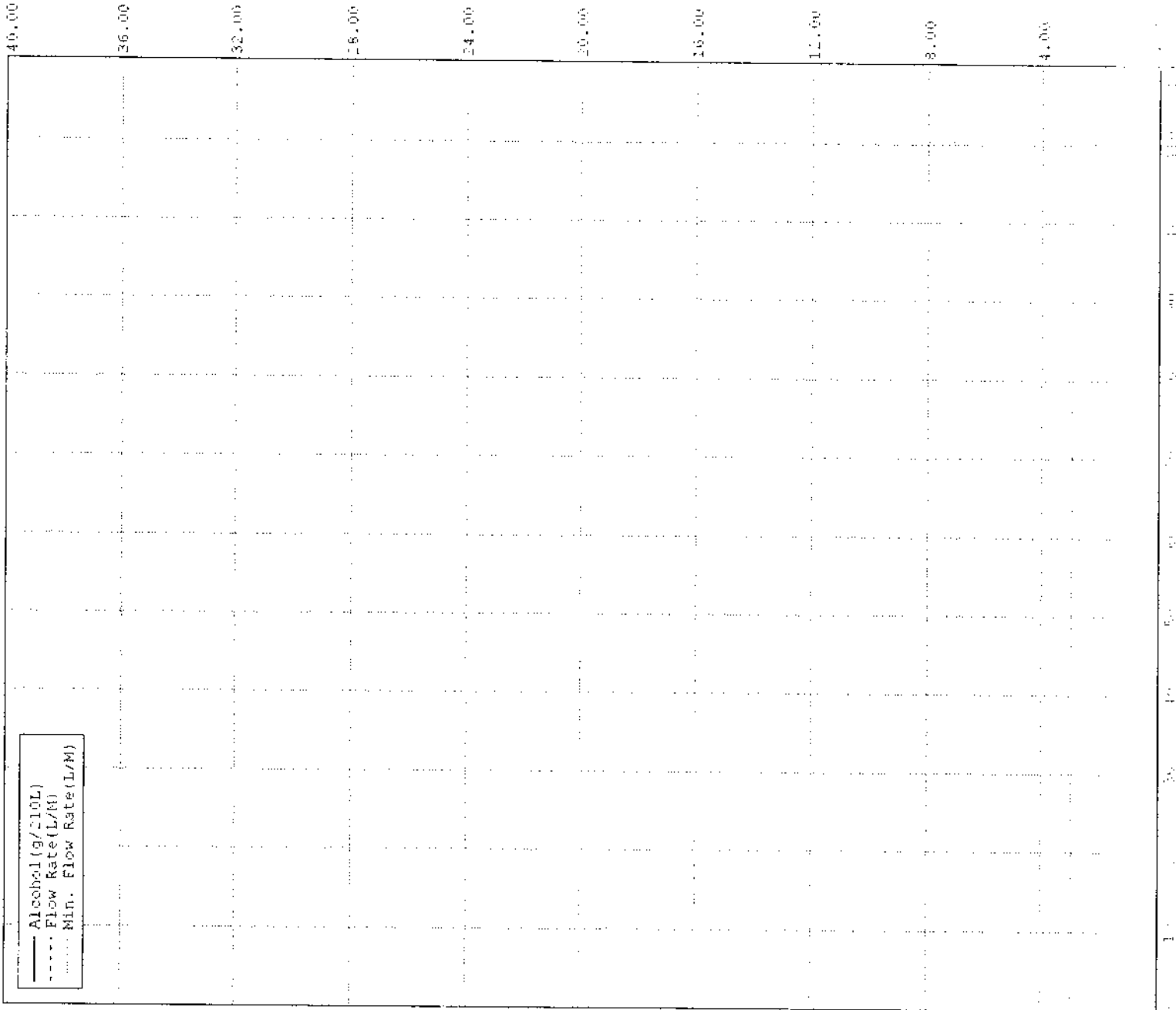
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: 07214080A1
EXPIRATION: 04/01/2016

DIAGNOSTIC CHECK PASSED 11:56
BLANK TEST 0.000 11:56
INTERNAL STANDARD VERIFIED 11:56
EXTERNAL STANDARD 0.076 11:56
BLANK TEST 0.000 11:57
SUBJECT SAMPLE INCOMPLETE 11:59

Alcohol(g/210L)
Flow Rate(L/M)
Min. Flow Rate(L/M)



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100358

Date: 08/06/2015
Time: 09:23:49

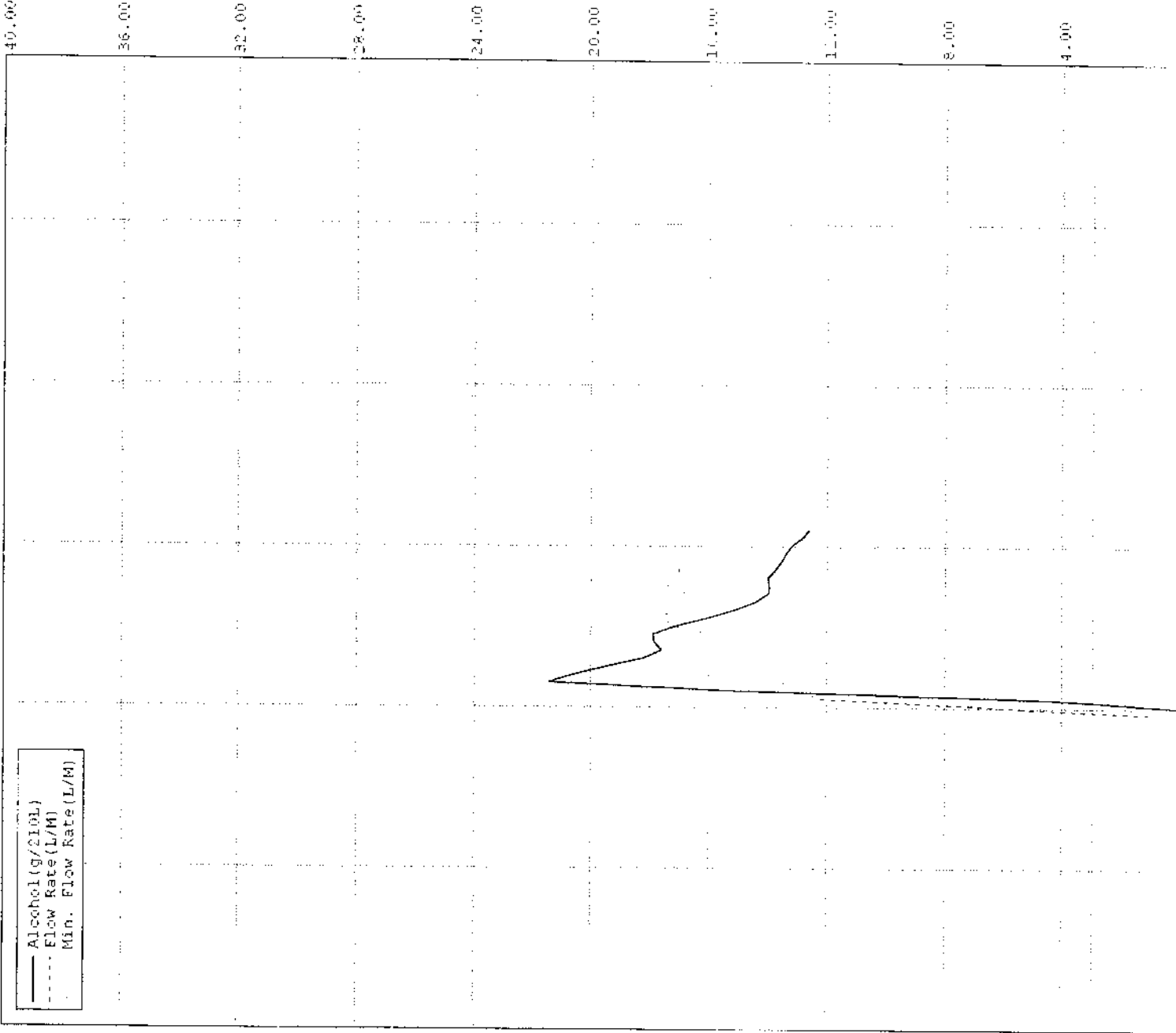
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: 07214080A1
EXPIRATION: 04/01/2016

DIAGNOSTIC CHECK
BLANK TEST PASSED 09:25
INTERNAL STANDARD 0.000 09:25
EXTERNAL STANDARD VERIFIED 09:25
BLANK TEST 0.076 09:25
SUBJECT SAMPLE 0.000 09:26
INVALID 09:27



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: I00358

Date: 08/06/2015
Time: 09:32:24

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: 07214080A1
EXPIRATION: 04/01/2016

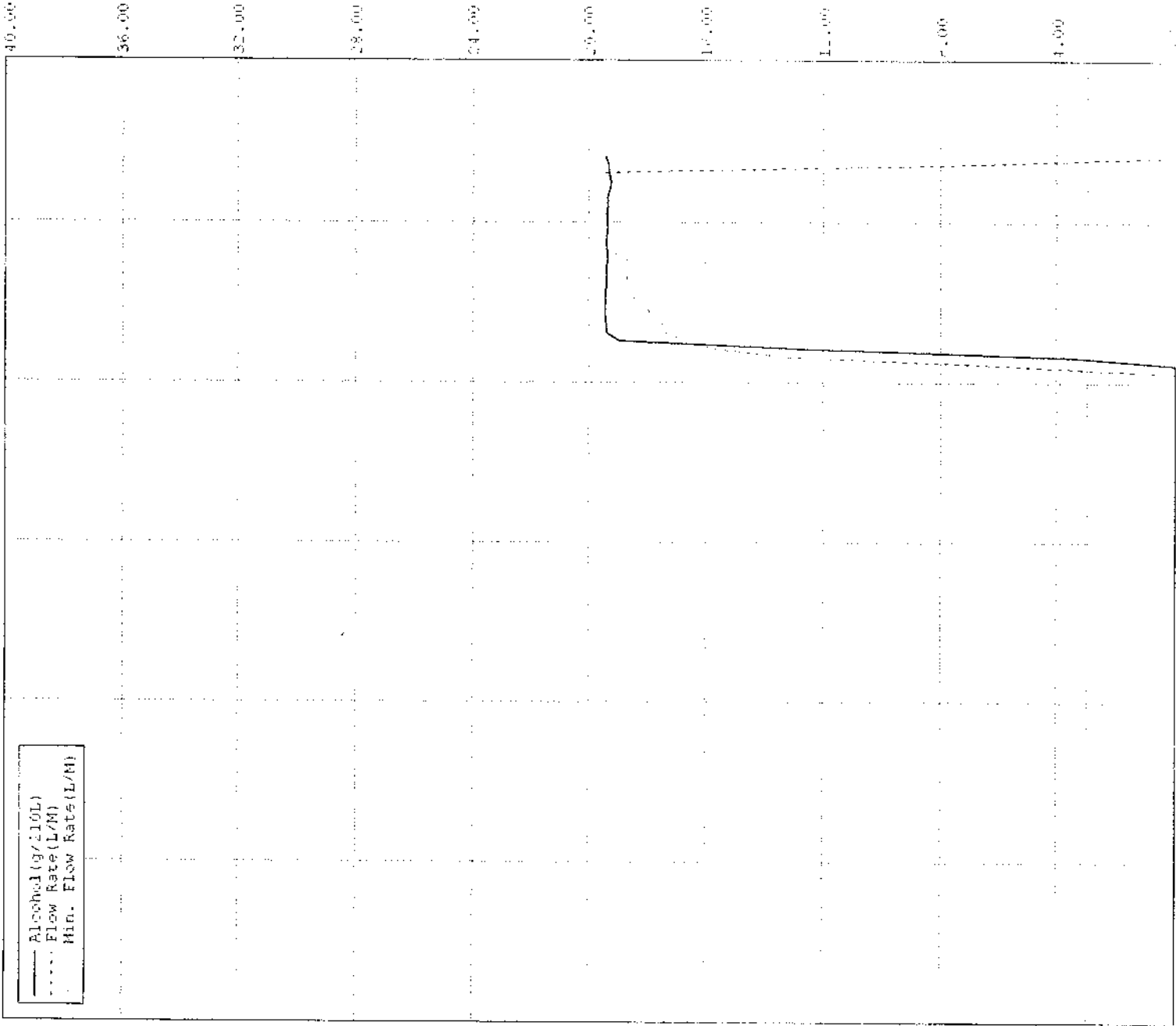
DIAGNOSTIC CHECK PASSED 09:35
BLANK TEST 0.000 09:35
INTERNAL STANDARD VERIFIED 09:35
Xq = 0.111 (0.55%)
EXTERNAL STANDARD 0.076 09:36
X[1] = 0.0762 (-0.0004) (0.0015)
BLANK TEST 0.000 09:37
SUBJECT SAMPLE XXX 09:37
X[1] = 0.0979 (-0.0143) (-0.0006)

Interference Detected

Filter 2 avg = -0.0003
Filter 3 avg = 0.0018



Alcohol(g/210L)
Flow Rate(L/M)
Min. Flow Rate(L/M)



40.00
36.00
32.00
28.00
24.00
20.00
16.00
12.00
8.00
4.00

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER cmt: 100358

Date: 08/06/2015
Time: 09:40:52

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

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

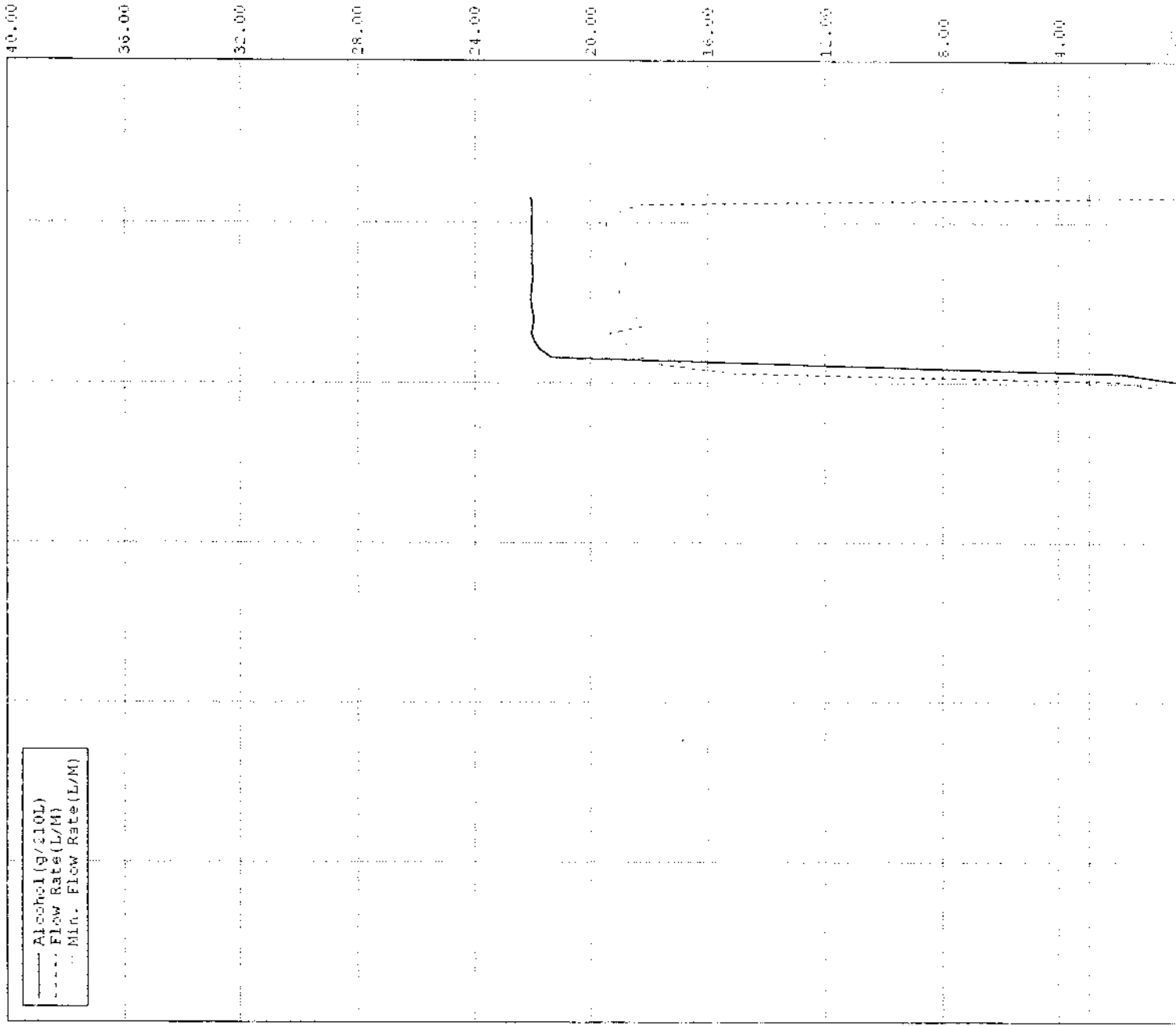
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: 07214080A1
EXPIRATION: 04/01/2016

DIAGNOSTIC CHECK	PASSED	09:41
BLANK TEST	0.000	09:42
INTERNAL STANDARD	VERIFIED	09:42
Xq = 0.111 (0.95%)		
EXTERNAL STANDARD	0.076	09:42
X[1] = 0.0762 (-0.0001)	(0.0018)	
BLANK TEST	0.000	09:43
SUBJECT SAMPLE	XXX	09:43
X[1] = 0.1114 (-0.0220)	(0.0005)	

Interference Detected

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 08/06/2015
Time: 09:47:25

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

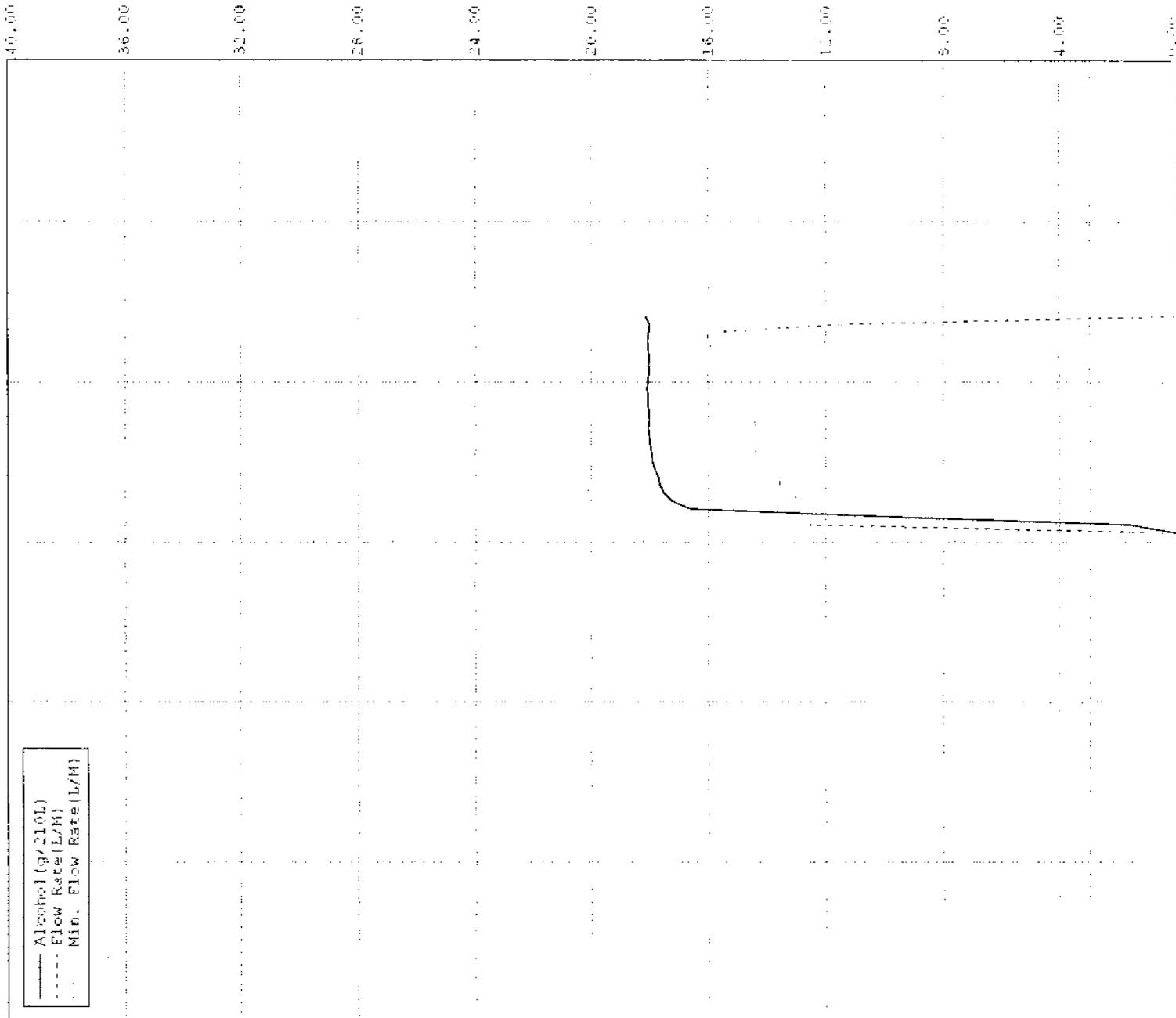
DEPT/AGENCY:
AAA1
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: 07214080A1
EXPIRATION: 04/01/2016

DIAGNOSTIC CHECK	PASSED	09:48
BLANK TEST	0.000	09:48
INTERNAL STANDARD	VERIFIED	09:48
Xq = 0.111 (0.71%)		
EXTERNAL STANDARD	0.076	09:49
X[1] = 0.0761 (0.0000) (0.0025)		
BLANK TEST	0.000	09:50
SUBJECT SAMPLE (Vol=1.56L)	0.091	09:50
X[1] = 0.0918 (0.0020) (0.0006)		
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.076	09:51
X[1] = 0.0757 (-0.0006) (0.0015)		
BLANK TEST	0.000	09:52

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 08/06/2015
Time: 09:56:51

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: 07214080A1
EXPIRATION: 04/01/2016

DIAGNOSTIC CHECK PASSED 09:57
BLANK TEST 0.000 09:58
INTERNAL STANDARD VERIFIED 09:58
EXTERNAL STANDARD 0.076 09:58
BLANK TEST 0.000 09:59
SUBJECT SAMPLE XXX 10:00

Maximum Attempts Exceeded

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)

40.00
36.00
32.00
28.00
24.00
20.00
16.00
12.00
8.00
4.00

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 08/06/2015
Time: 10:02:23

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

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

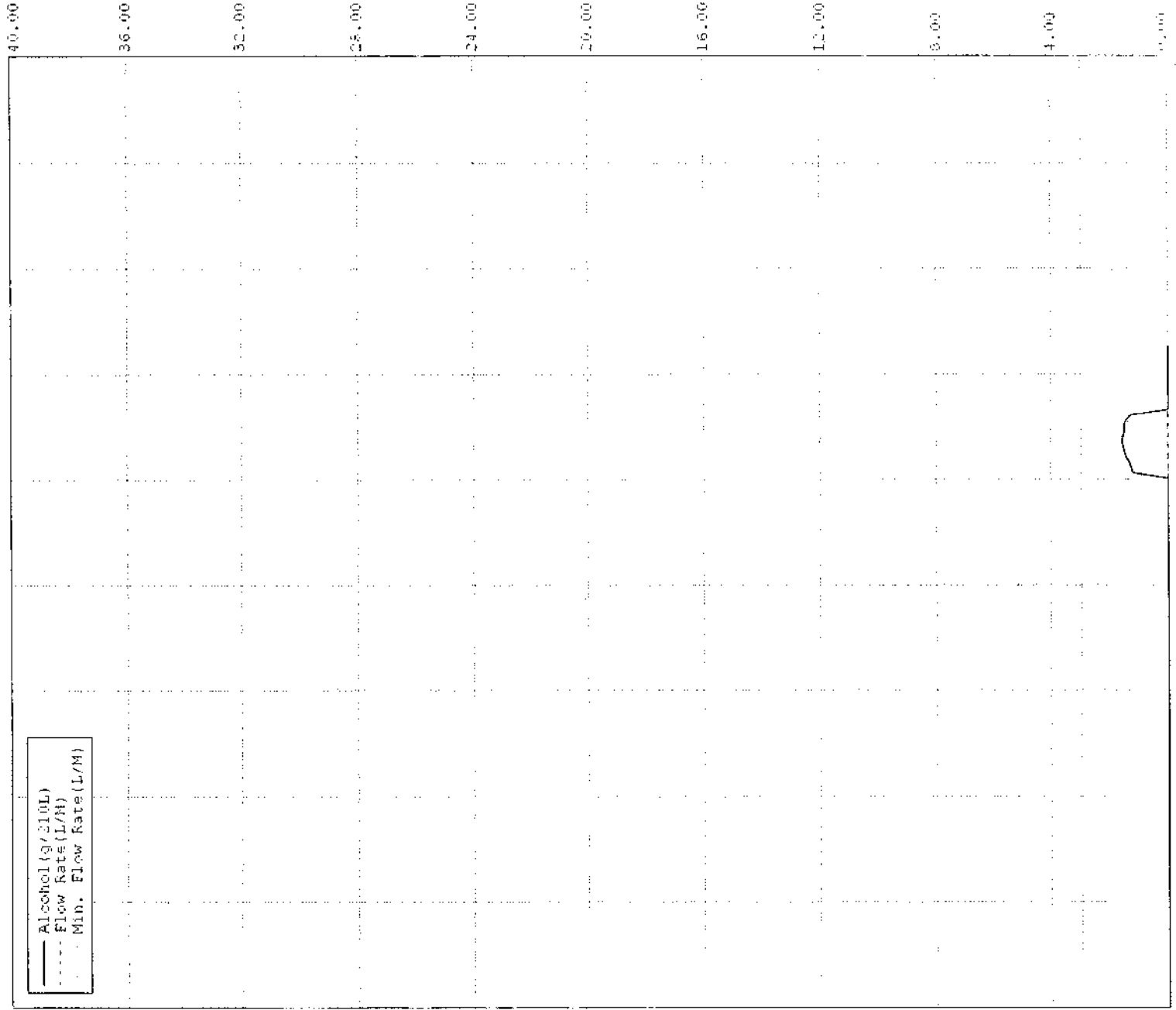
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: 07214080A1
EXPIRATION: 04/01/2016

DIAGNOSTIC CHECK PASSED 10:03
BLANK TEST 0.000 10:03
INTERNAL STANDARD VERIFIED 10:03
EXTERNAL STANDARD 0.076 10:04
BLANK TEST 0.000 10:05

RFI DETECTED

CRB

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100358

Date: 08/06/2015

Time: 10:18:59

SUBJECT NAME:

TEST TEST

LICENSE #: NONDRINKING

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 15-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

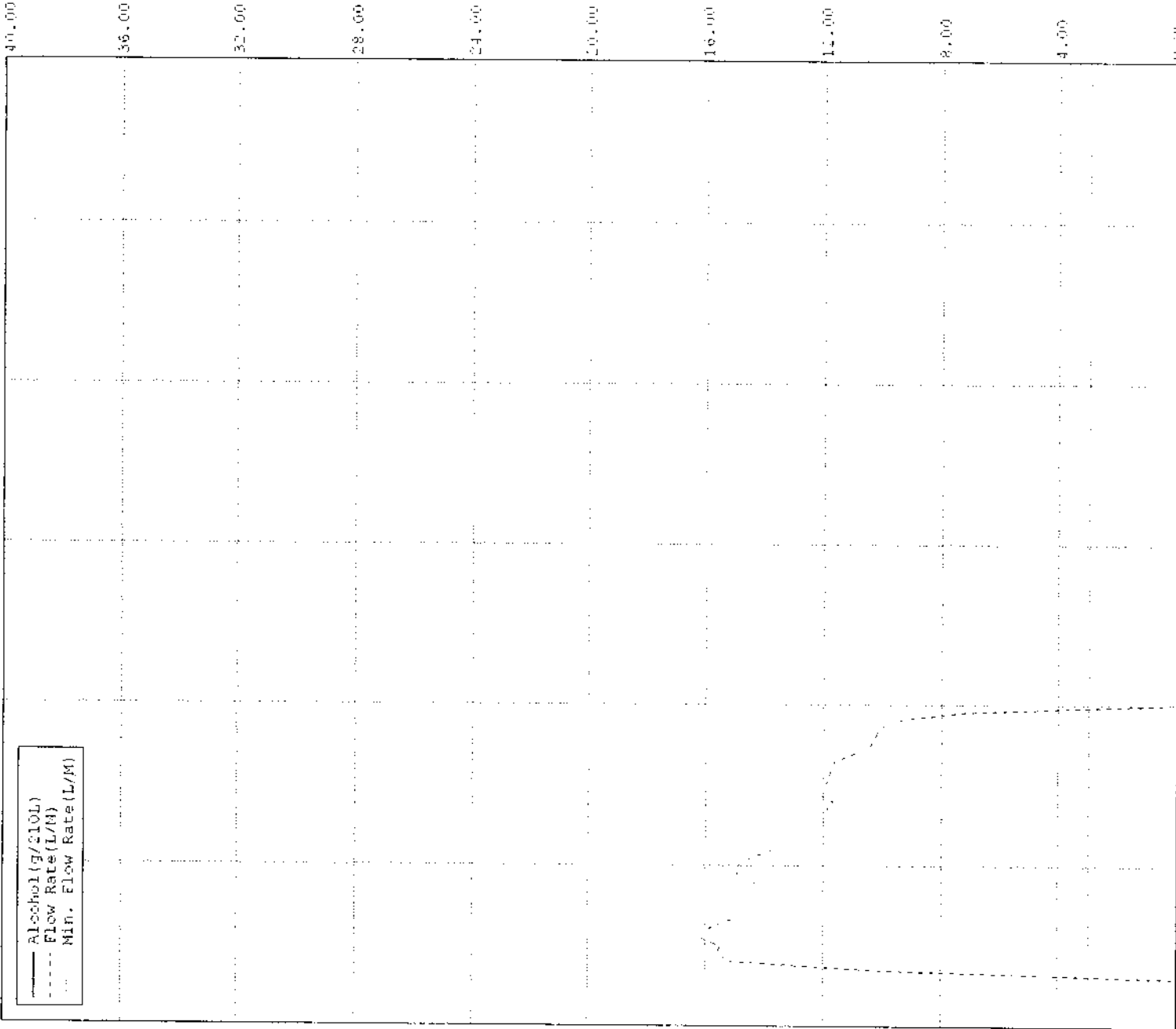
TARGET AT 29.65: 0.079

LOT #: 07214080A1

EXPIRATION: 04/01/2016

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	10:20
INTERNAL STANDARD	VERIFIED	10:20
EXTERNAL STANDARD	0.077	10:21
BLANK TEST	0.000	10:22
SUBJECT SAMPLE (Vol=1.78L)	0.000	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.077	10:23
BLANK TEST	0.000	10:24

Alcohol(g/100L)
Flow Rate(L/M)
Min. Flow Rate(L/M)



CSB