

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 100347 Analyst Colleen OByrne Start Date 12/29/15

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 01315080A3 Exp 2/5/17

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

v. 0.200g/210L Mnf Guth Lot 15130 Exp 5/11/17

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

vi. 0.300g/210L Mnf Guth Lot 15170 Exp 7/20/17

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

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17

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

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

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

iii. Negative Control - Mnf Guth 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 12/30/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 12/29/2015
Time: 09:27:15

VERSIONS
DMT: 3.01
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.30 V PASSED
(1.34 V - 3.12 V)
Cooler Voltage = 2.00 V PASSED
(1.13 V - 2.65 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 552 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 5.332 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

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

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.093 1.04% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100347

Date: 12/29/2015

Time: 1:52 PM

Temperatures (°C)

Sample Cell: 49.4°C

Breath Tube: 46.4°C

Current Barometer 29.5 in

Volume (Ltr) 1.45

Settings

Lamp: 2.41 V

Bias: 80 V

Cooler: 2.00 V

Chopper: 552 Hz

Voltages (V)

Flow: 1.05 V

Detector: -0.039 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 03/22/2011
Time: 14:26:48

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

Ca = 0.1000
CAL = 0.967916 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0053 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0921 0.0500 <= Xq < 0.2000
a21 = 1.175203 1.050 <= a21 < 1.300
a31 = 0.445516 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 12/29/2015
Time: 13:53:06

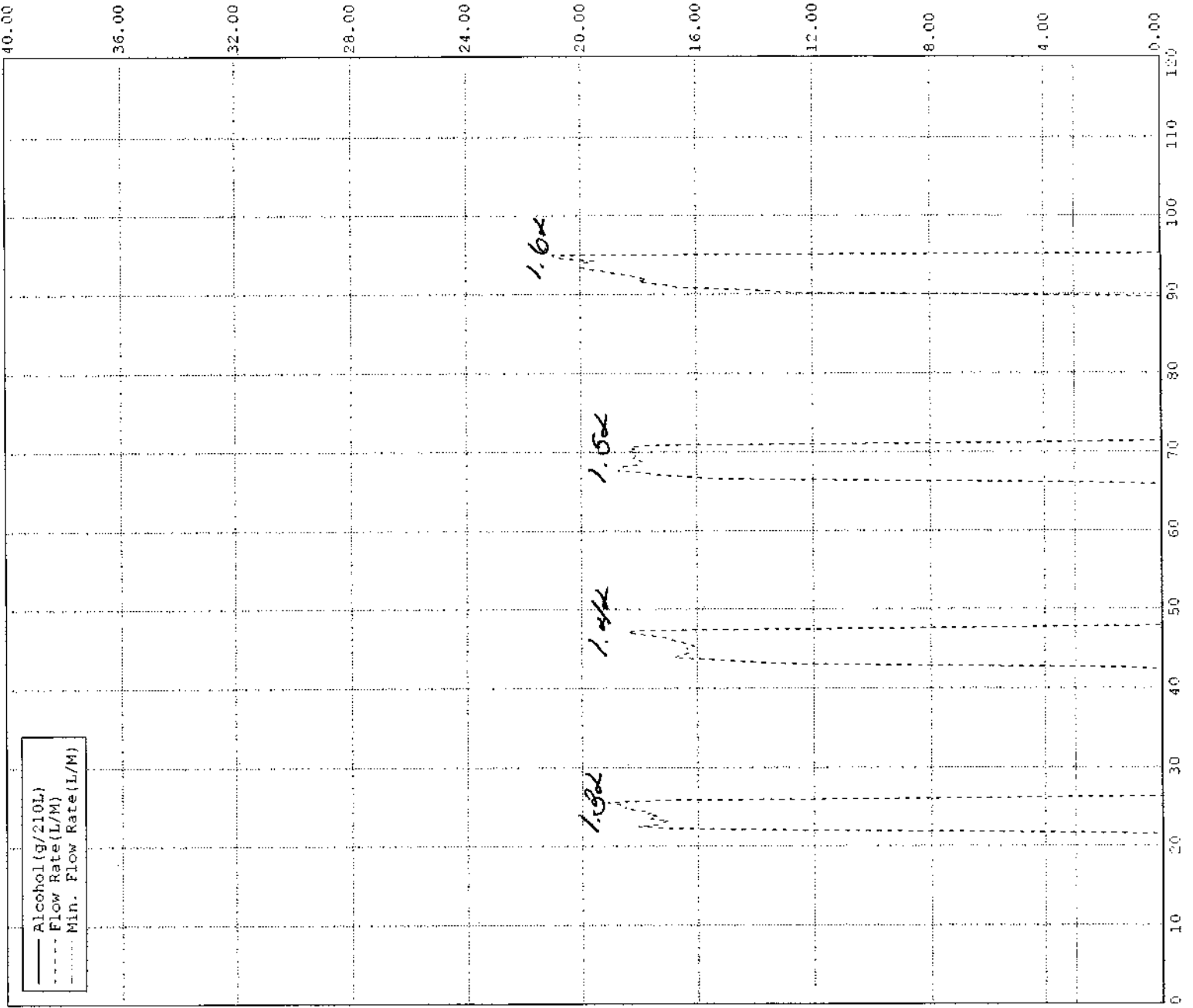
SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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 29.53: 0.079
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	13:54
BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:54
EXTERNAL STANDARD	0.077	13:54
BLANK TEST	0.000	13:55
SUBJECT SAMPLE (Vol=1.55L)	0.000	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.077	13:58
BLANK TEST	0.000	13:59



LINEARITY CHECK

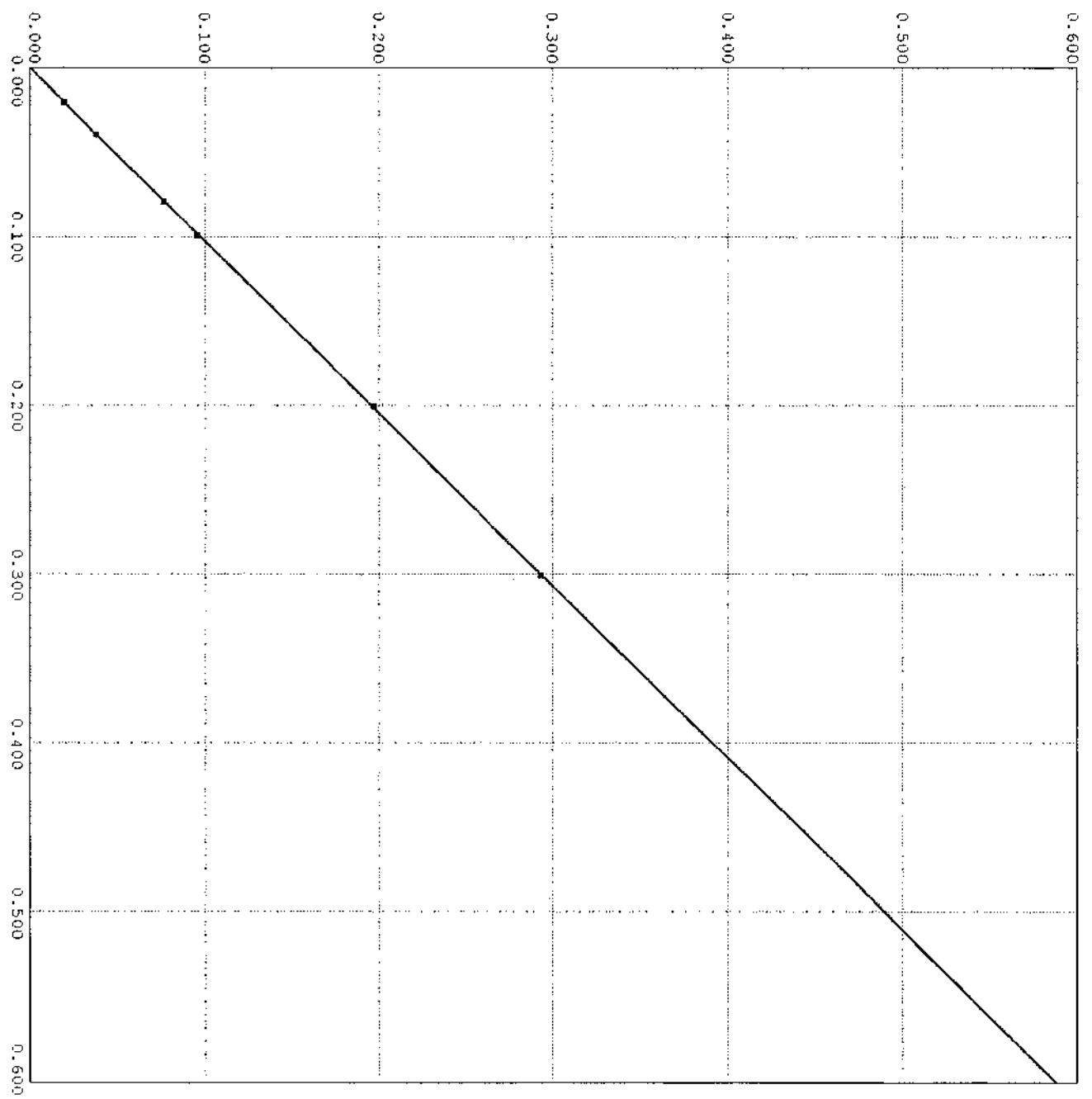
Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 12/29/2015
Time: 14:00:57

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.039	0.0390	0.0000
0.079	0.0774	0.0005
0.099	0.0966	0.0005
0.200	0.1978	0.0008
0.300	0.2940	0.0012

SLOPE = 0.980395
R² = 0.999943



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

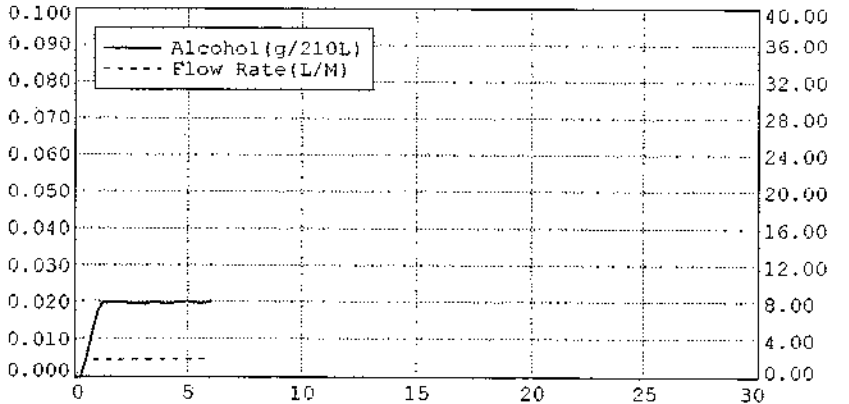
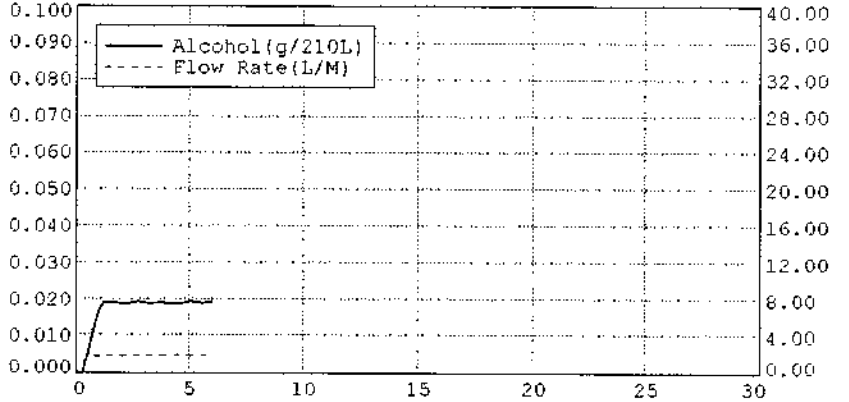
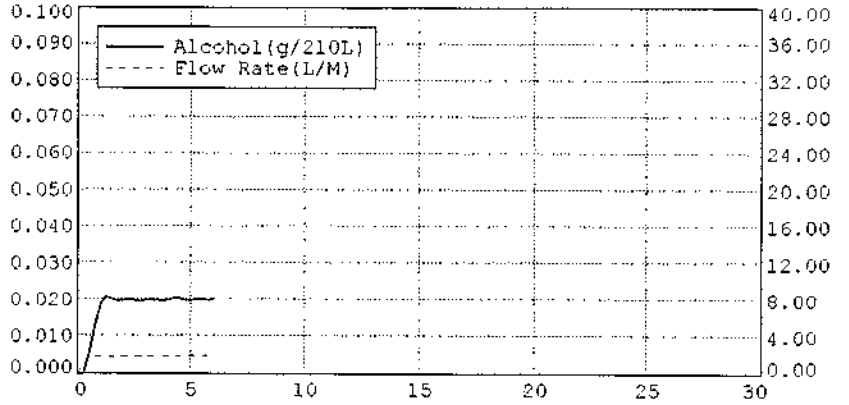
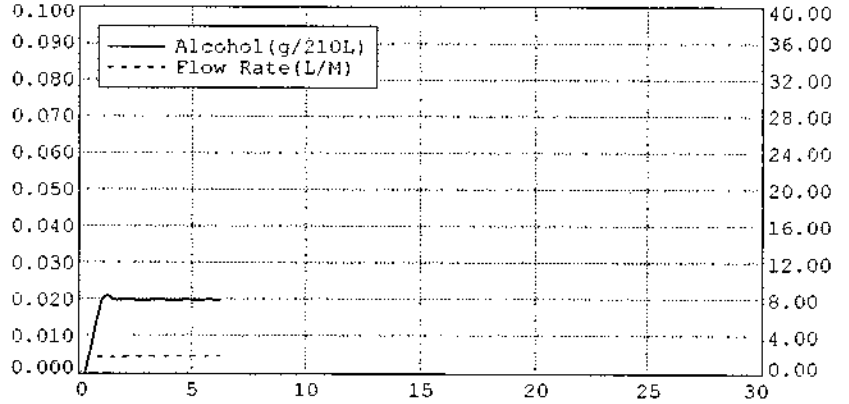
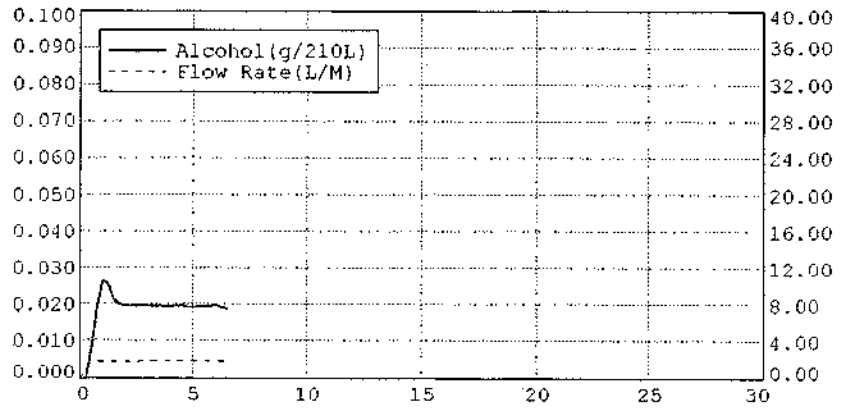
Date: 12/29/2015
 Time: 14:00:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.53: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 581 psi

BLANK TEST	0.000	14:04
INTERNAL STANDARD	VERIFIED	14:04
EXTERNAL STANDARD	0.020	14:05
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.020	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.021	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.020	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.020	14:09
BLANK TEST	0.000	14:10

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

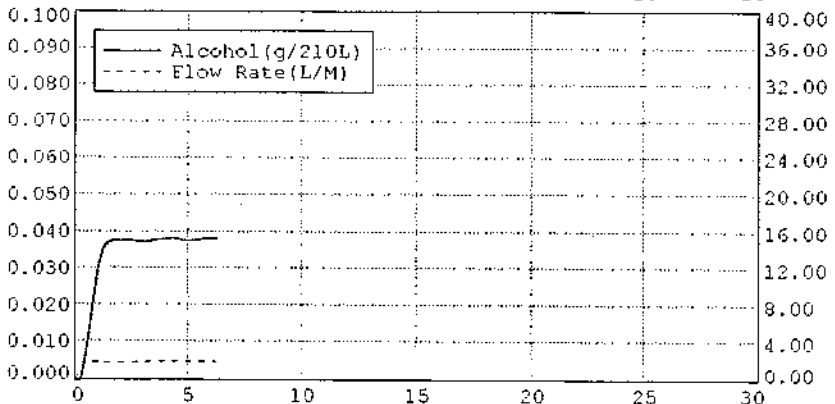
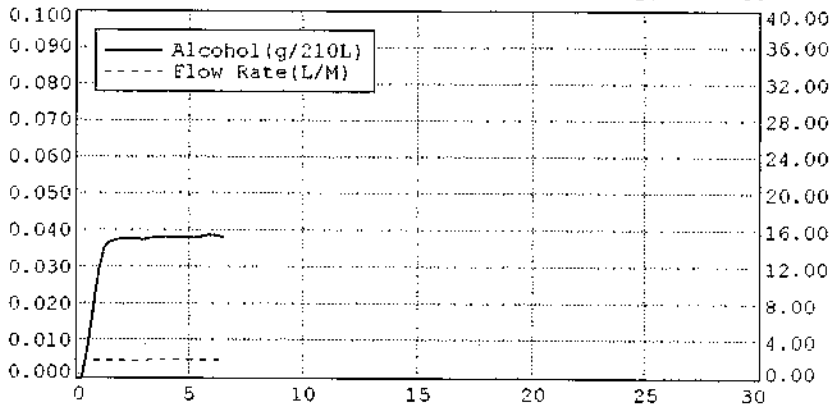
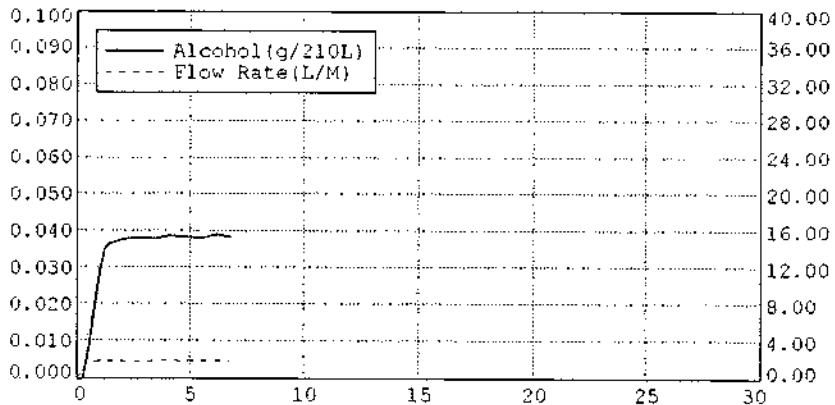
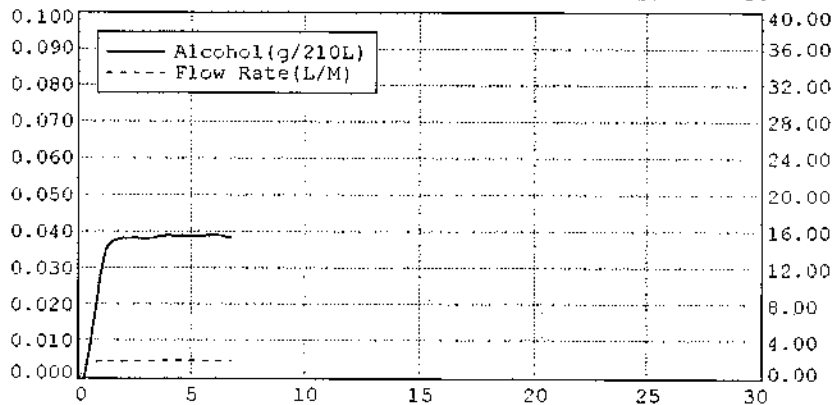
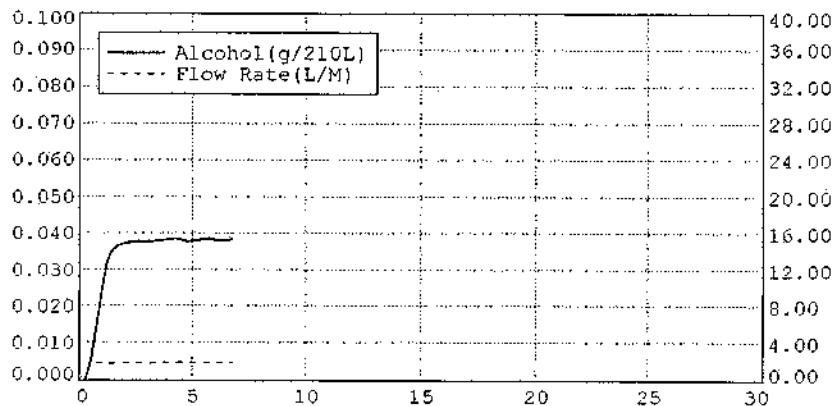
Date: 12/29/2015
 Time: 14:12:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.52: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 606 psi

BLANK TEST	0.000	14:13
INTERNAL STANDARD	VERIFIED	14:13
EXTERNAL STANDARD	0.039	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.039	14:15
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.039	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.039	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.039	14:18
BLANK TEST	0.000	14:19

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100347

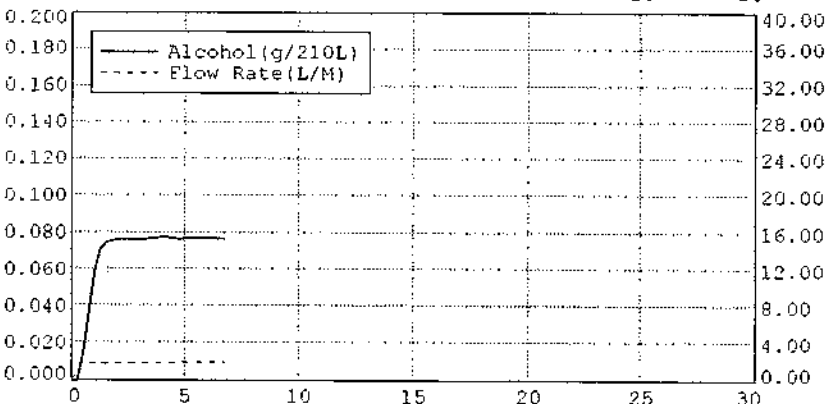
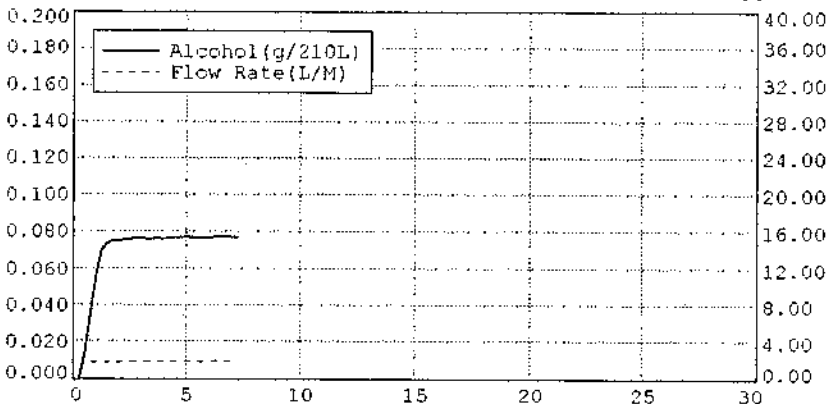
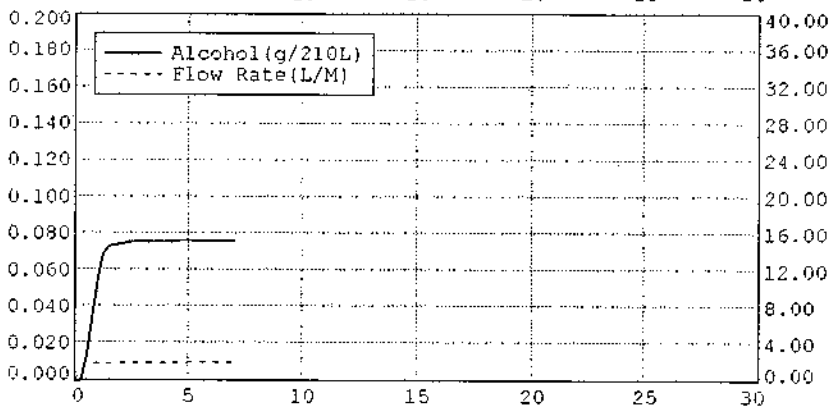
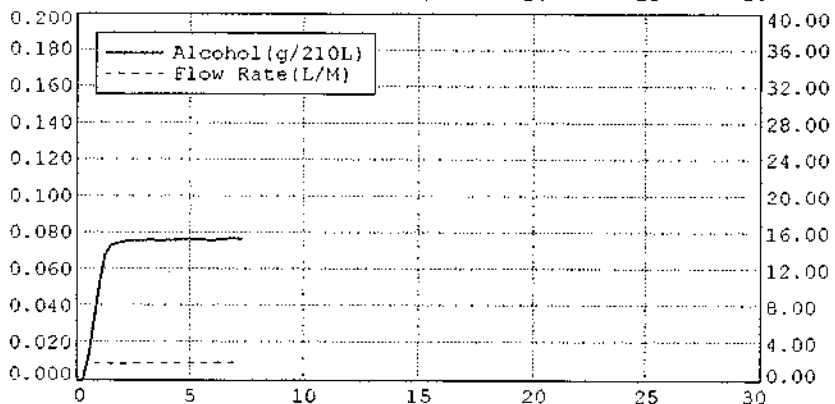
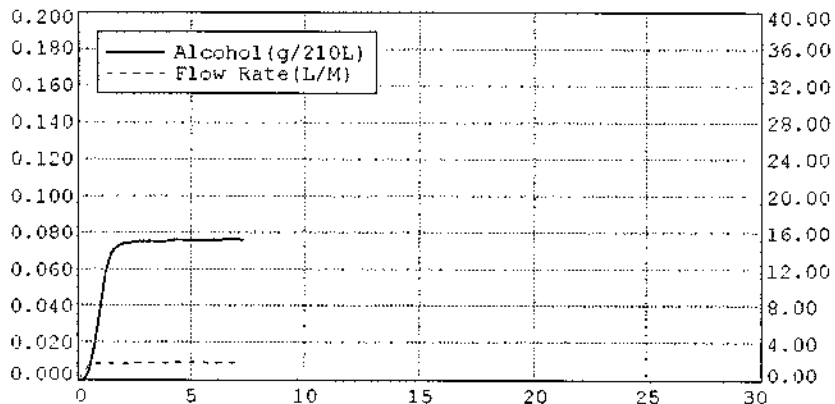
Date: 12/29/2015
Time: 14:21:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.52: 0.079
LOT #: 01315080A3
EXPIRATION: 02/05/2017
TANK PRESSURE: 518 psi

BLANK TEST	0.000	14:22
INTERNAL STANDARD	VERIFIED	14:22
EXTERNAL STANDARD	0.077	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.077	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.077	14:25
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.078	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.078	14:27
BLANK TEST	0.000	14:28

Average = 0.0774
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

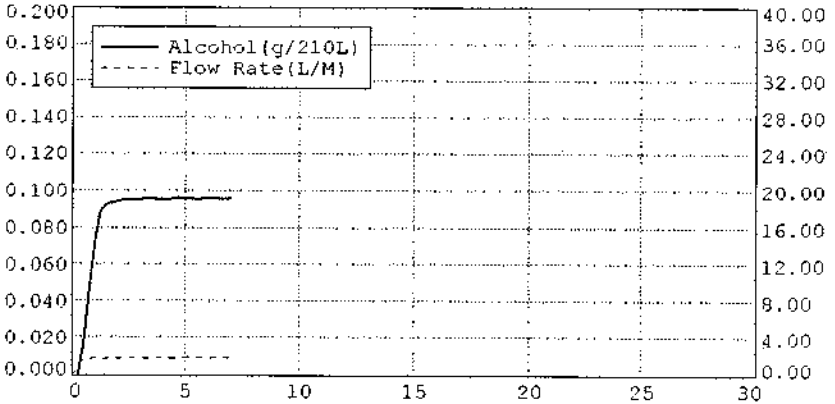
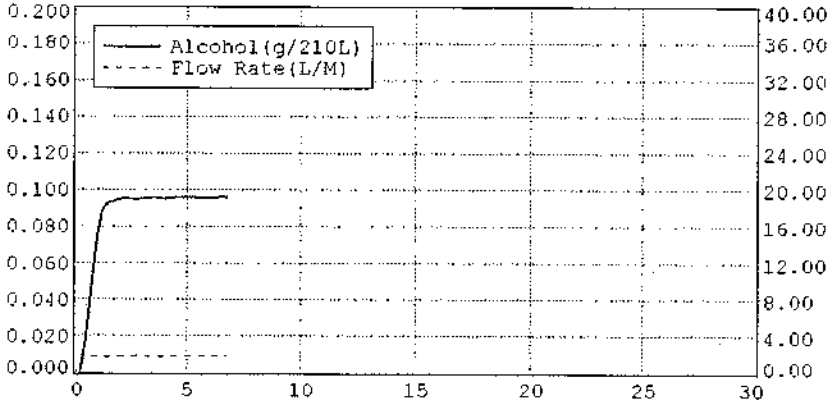
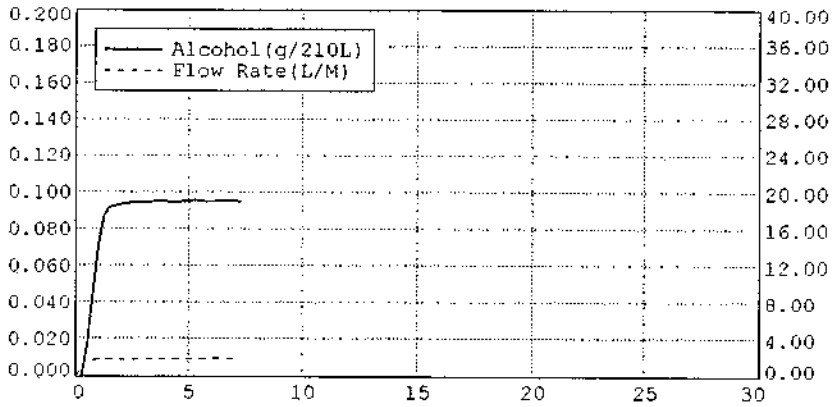
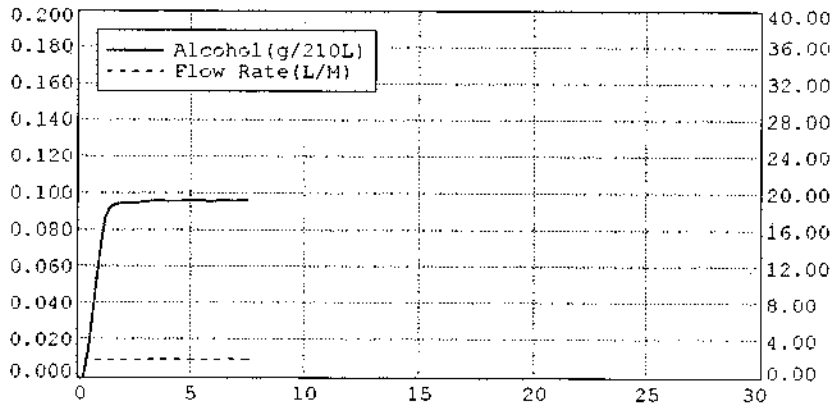
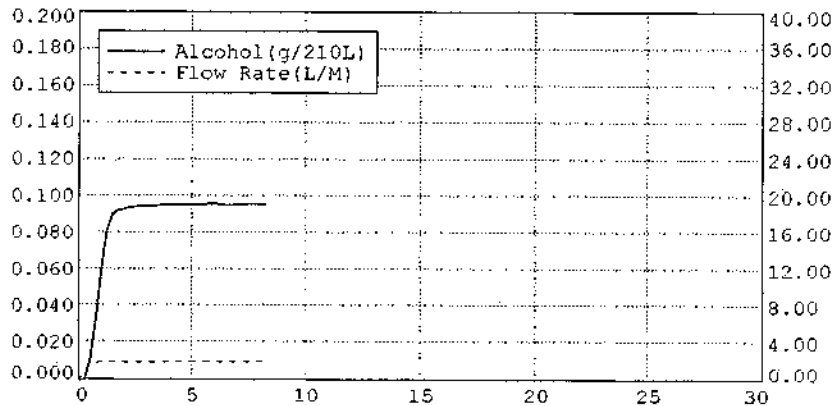
Date: 12/29/2015
 Time: 14:31:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.51: 0.099
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 603 psi

BLANK TEST	0.000	14:32
INTERNAL STANDARD	VERIFIED	14:32
EXTERNAL STANDARD	0.096	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.097	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.096	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.097	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.097	14:37
BLANK TEST	0.000	14:37

Average = 0.0966
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

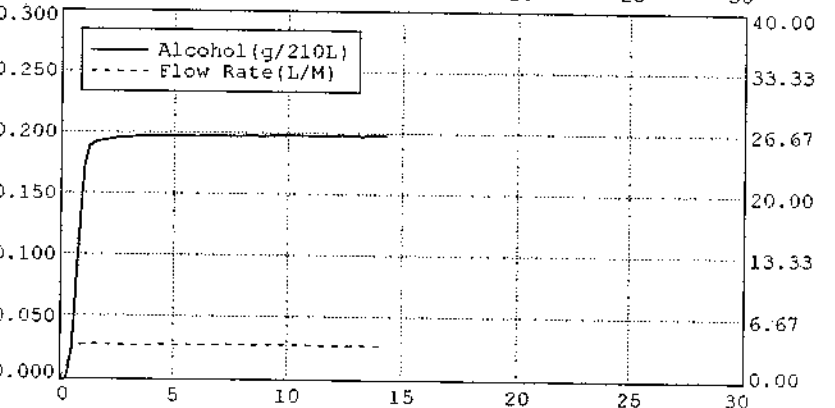
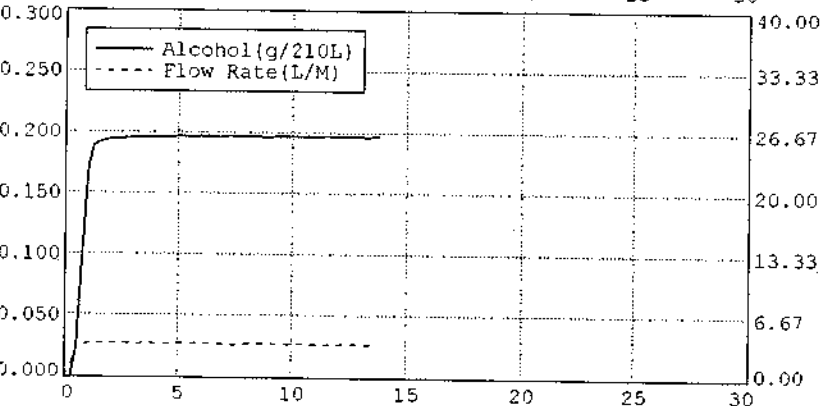
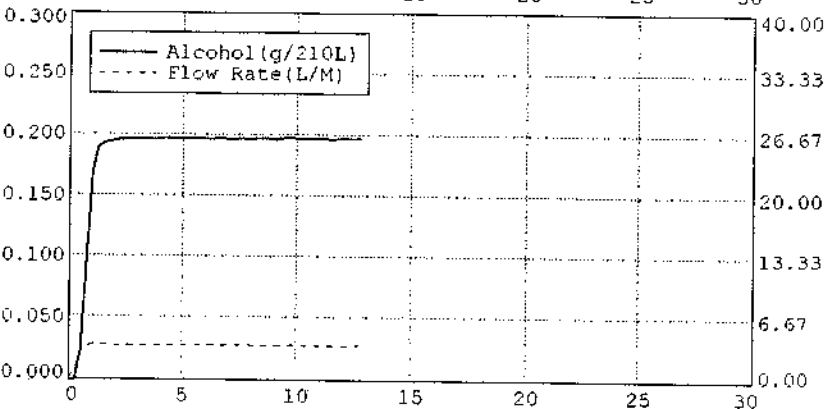
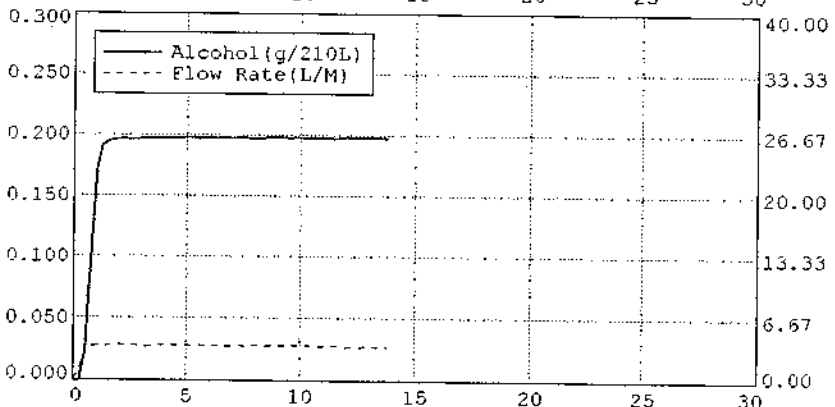
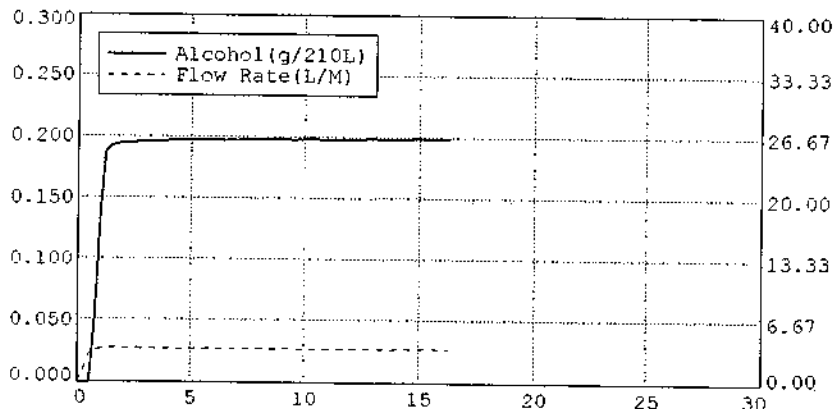
Date: 12/29/2015
 Time: 14:40:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 15130
 EXPIRATION: 05/11/2017

BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:42
EXTERNAL STANDARD	0.199	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.198	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.197	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.197	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.198	14:47
BLANK TEST	0.000	14:48

Average = 0.1978
 Std Dev = 0.0008



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

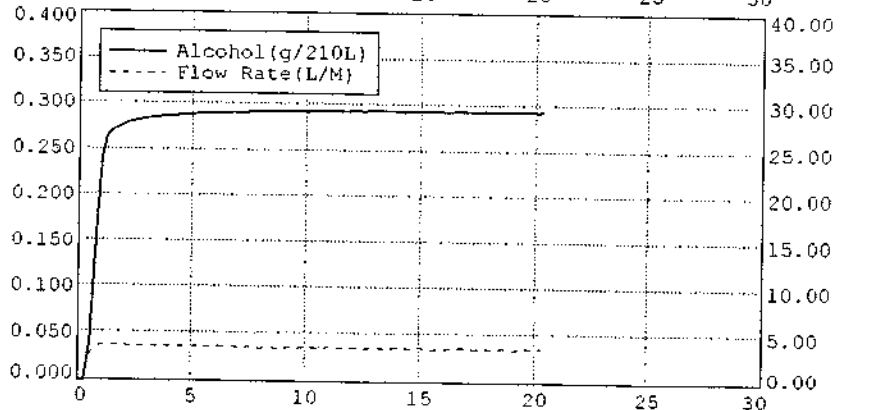
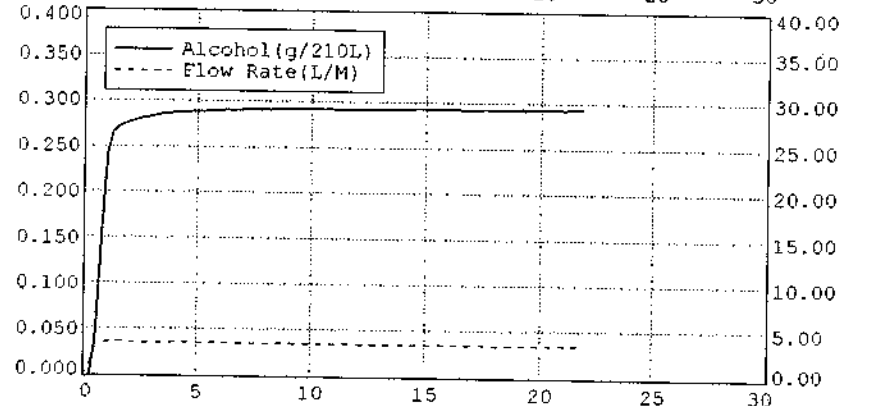
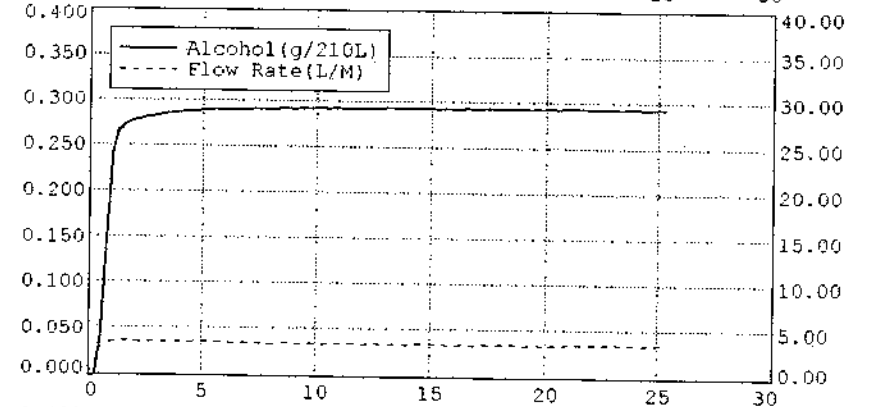
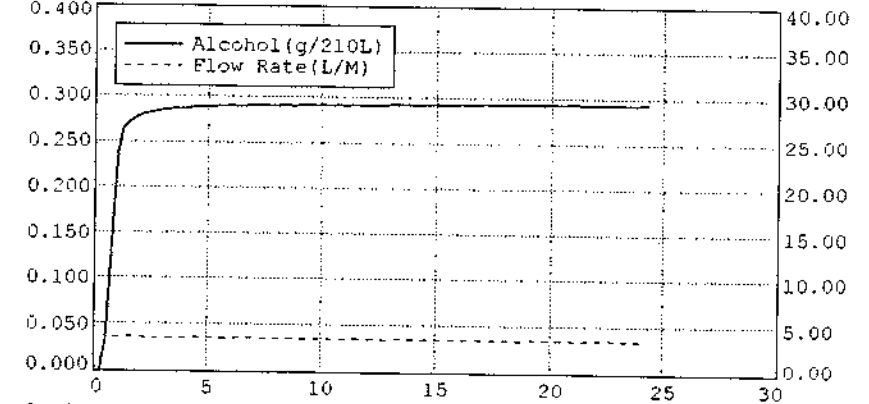
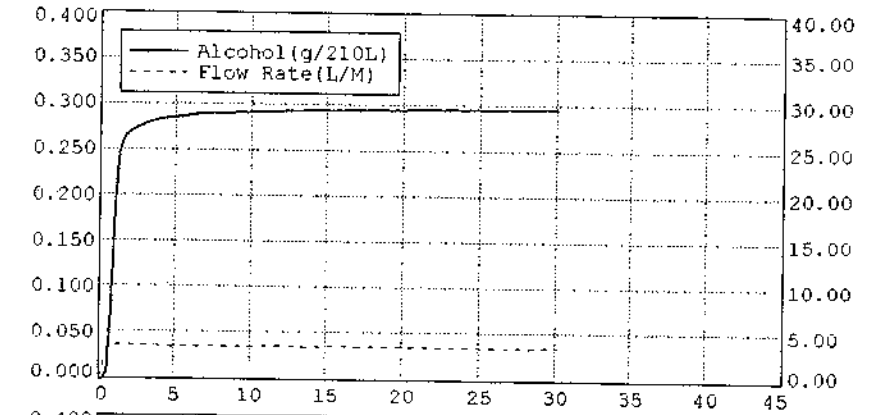
Date: 12/29/2015
 Time: 14:52:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 15170
 EXPIRATION: 07/20/2017

BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
EXTERNAL STANDARD	0.296	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.294	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.293	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.294	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.293	14:59
BLANK TEST	0.000	15:00

Average = 0.2940
 Std Dev = 0.0012



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 12/30/2015
Time: 09:50:25

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

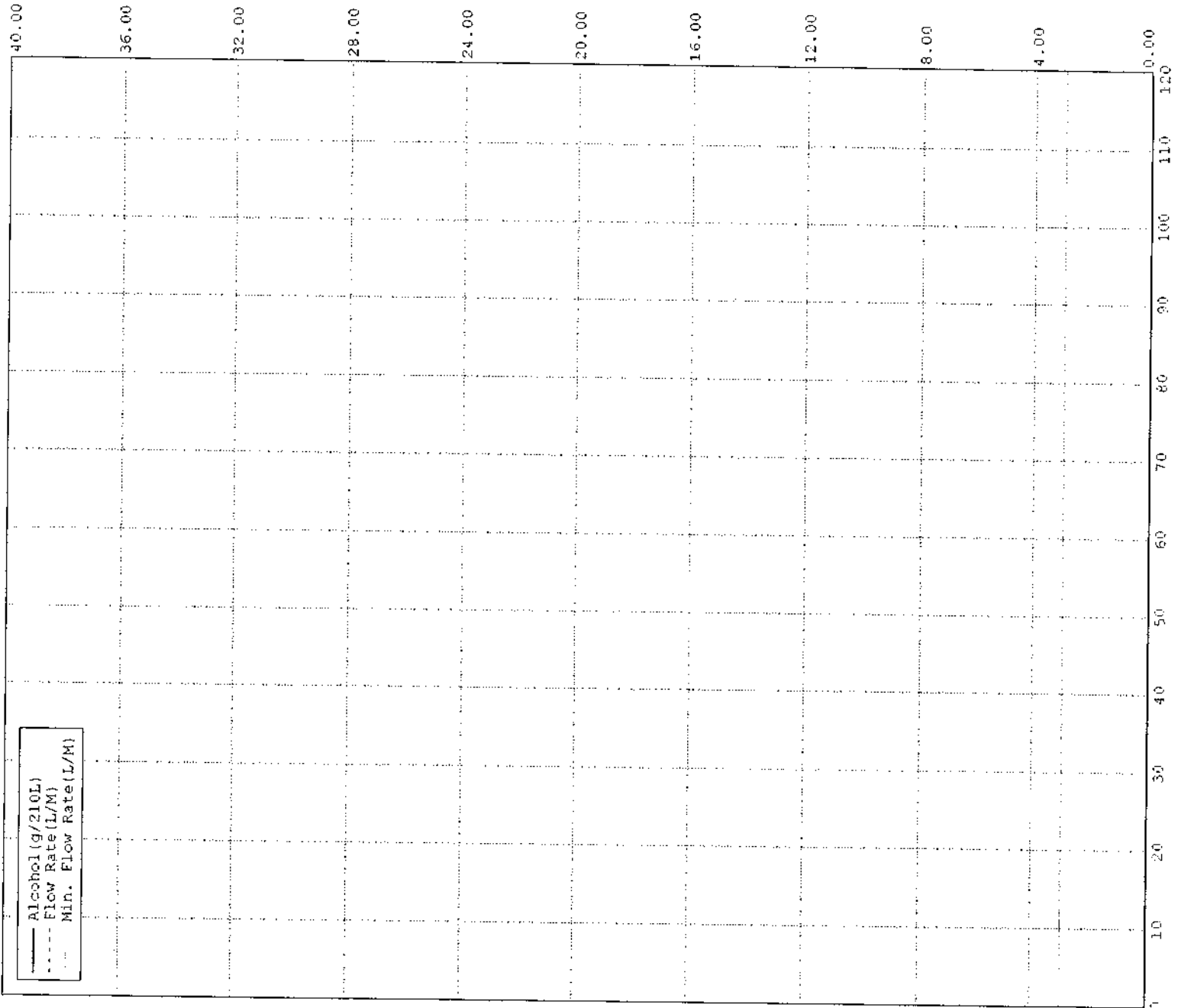
DEPT/AGENCY:
AAA1

CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.24: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	09:51
BLANK TEST	0.000	09:51
INTERNAL STANDARD	VERIFIED	09:51
EXTERNAL STANDARD	0.076	09:51
BLANK TEST	0.000	09:52
SUBJECT SAMPLE	INCOMPLETE	09:54



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 12/30/2015
Time: 10:03:55

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAA1

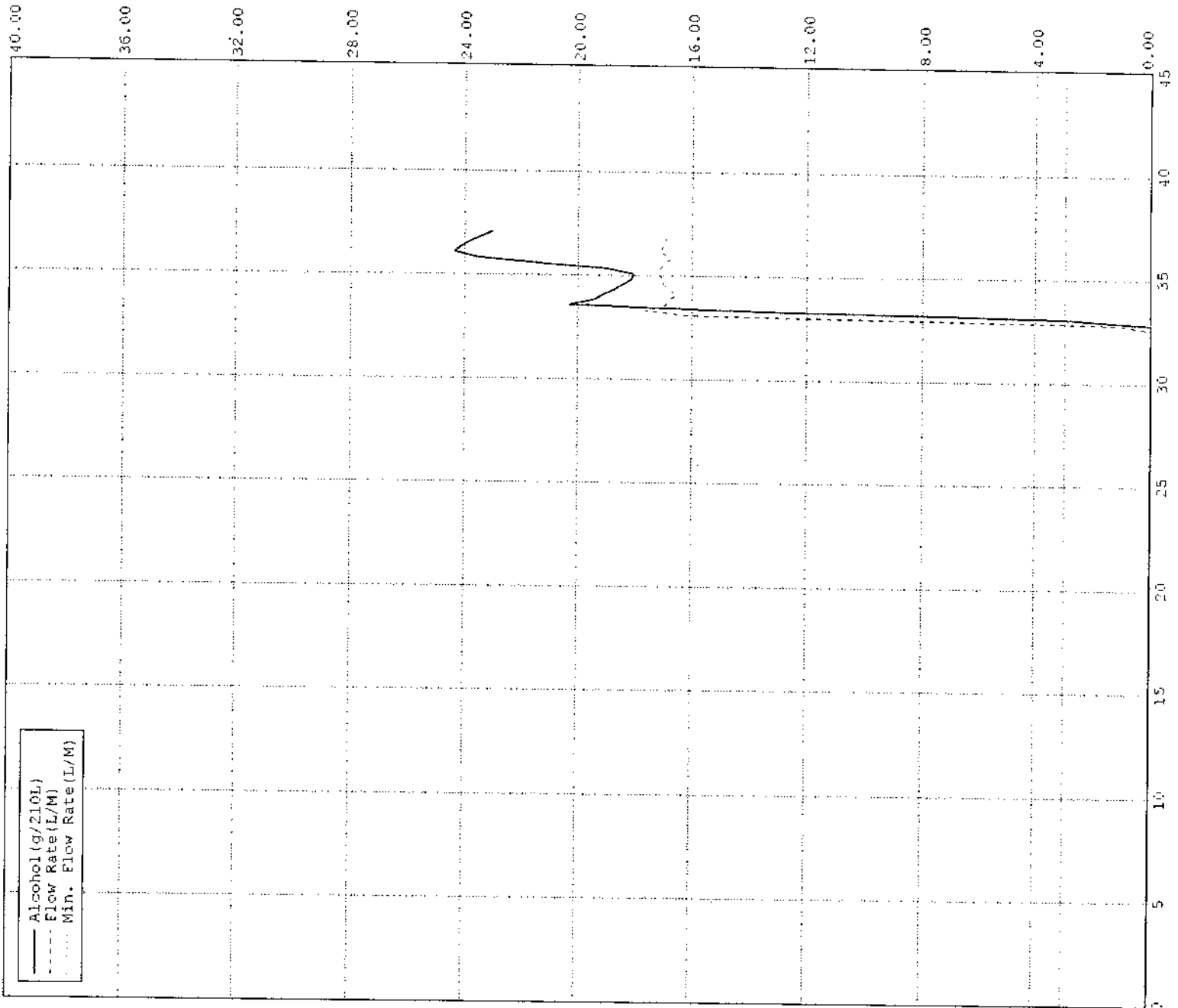
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

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

COB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100347

Date: 12/30/2015
Time: 10:24:31

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 15-1234
TEST TYPE: TEST

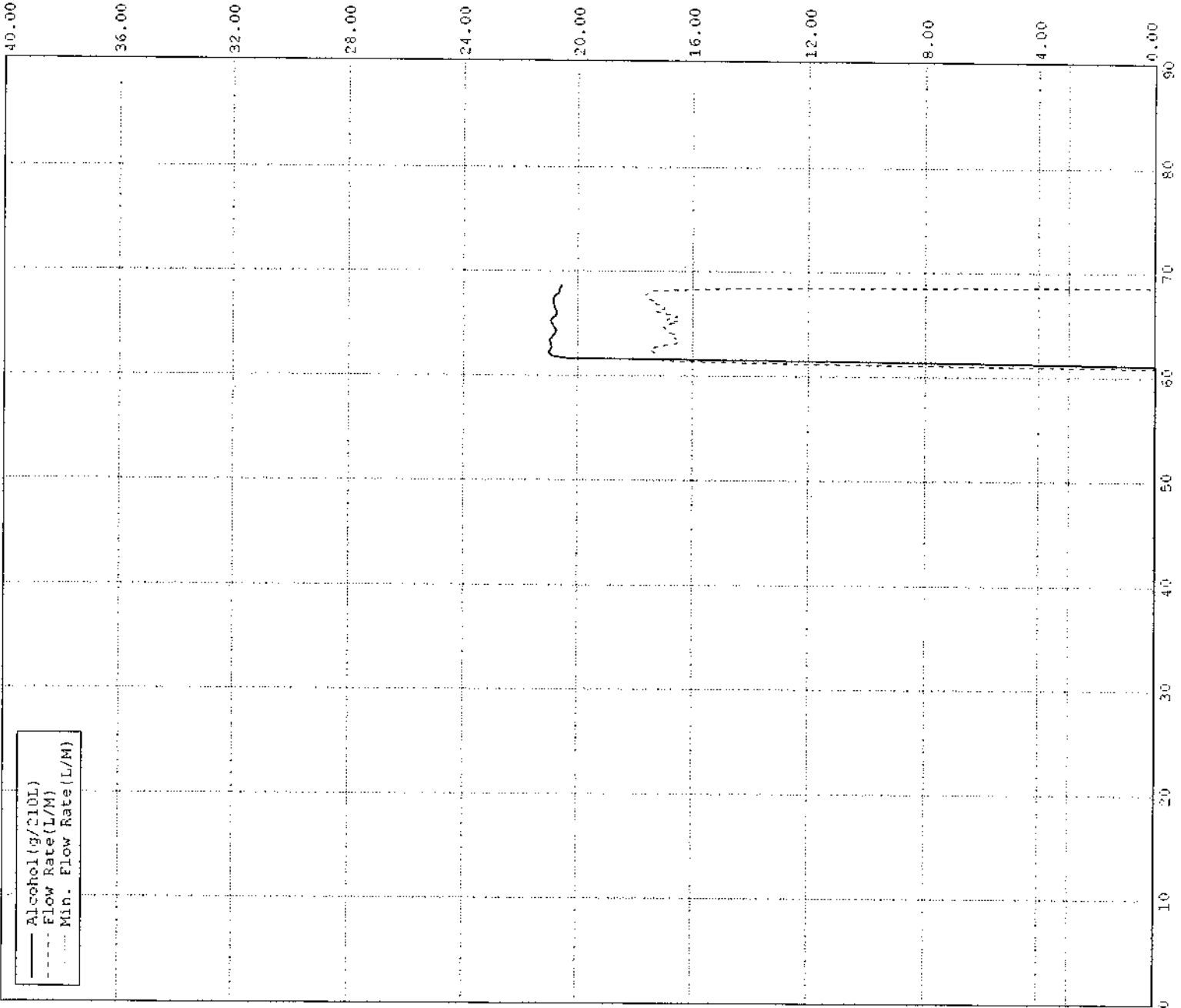
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.28: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 10:25
BLANK TEST 0.000 10:25
INTERNAL STANDARD VERIFIED 10:25
Xq = 0.093 (1.14%)
EXTERNAL STANDARD 0.076 10:26
X[1] = 0.0762 (0.0000) (0.0025)
BLANK TEST 0.000 10:27
SUBJECT SAMPLE XXX 10:28
X[1] = 0.1031 (-0.0161) (0.0001)

Interference Detected

COB



SUBJECT TEST

Alaska Department of Public Safety
DAPMASTER dmt: 100347

Date: 12/30/2015
Time: 10:31:23

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

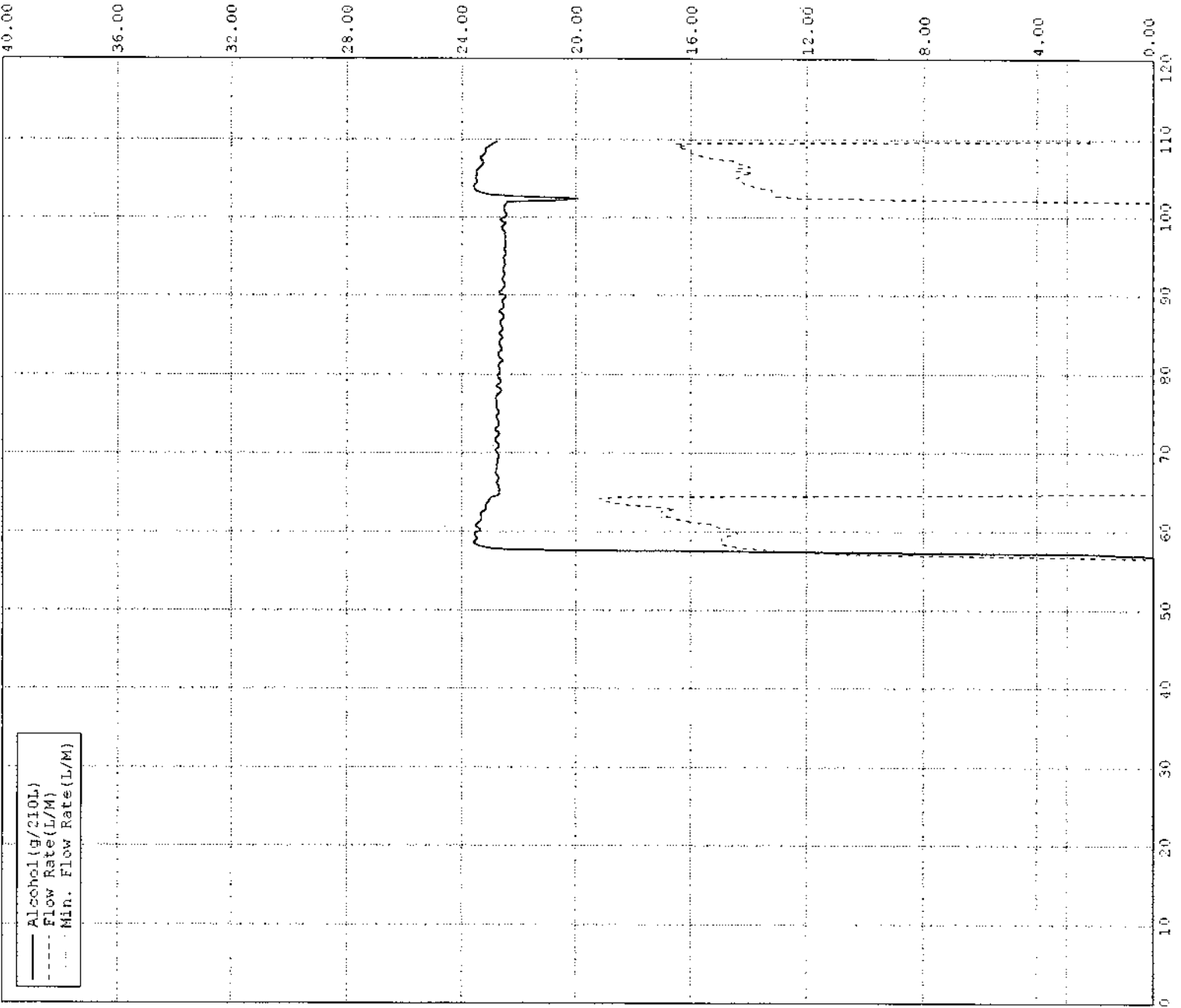
DEPT/AGENCY:
AAA1
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.28: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	10:34
BLANK TEST	0.000	10:34
INTERNAL STANDARD	VERIFIED	10:34
Xq = 0.092 (0.38%)		
EXTERNAL STANDARD	0.076	10:34
X[1] = 0.0761 (-0.0014) (0.0020)		
BLANK TEST	0.000	10:35
SUBJECT SAMPLE	XXX	10:37
X[1] = 0.1147 (-0.0228) (0.0009)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

Date: 12/30/2015
 Time: 10:42:28

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

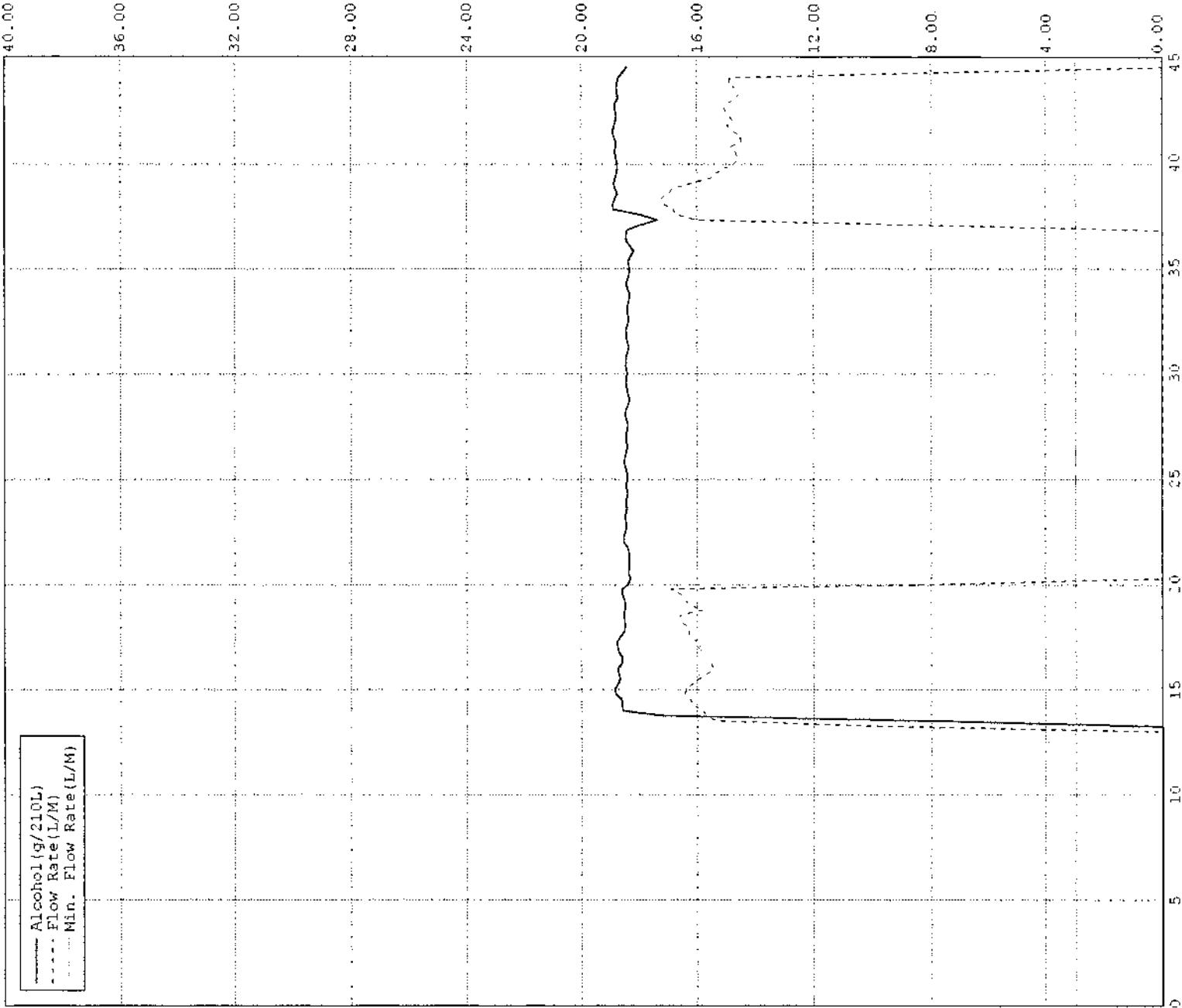
EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.29: 0.078
 LOT #: 01315080A3
 EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	10:43
BLANK TEST	0.000	10:43
INTERNAL STANDARD	VERIFIED	10:44
Xg = 0.093 (0.57%)		
EXTERNAL STANDARD	0.077	10:44
X[1] = 0.0765 (-0.0007) (0.0030)		
BLANK TEST	0.000	10:45
SUBJECT SAMPLE (Vol=1.86L)	0.093	10:46
X[1] = 0.0934 (-0.0005) (0.0010)		
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.076	10:47
X[1] = 0.0760 (-0.0013) (0.0020)		
BLANK TEST	0.000	10:48

Filter 2 avg = -0.0009

Filter 3 avg = 0.0004

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 12/30/2015
Time: 10:50:33

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

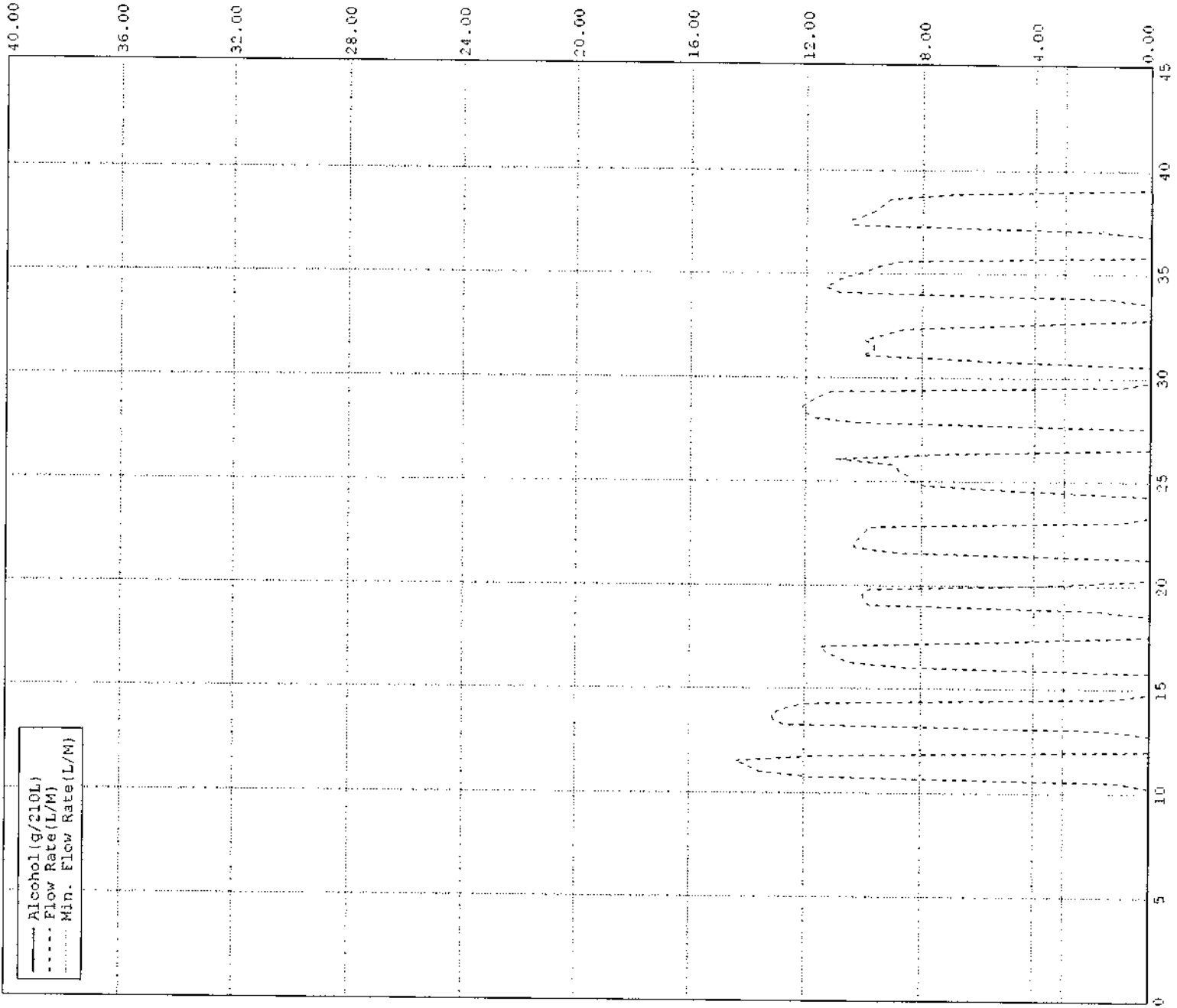
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.30: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 10:51
BLANK TEST 0.000 10:51
INTERNAL STANDARD VERIFIED 10:51
EXTERNAL STANDARD 0.077 10:52
BLANK TEST 0.000 10:52
SUBJECT SAMPLE XXX 10:53

Maximum Attempts Exceeded

(Handwritten initials)



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 12/30/2015
Time: 10:55:22

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:

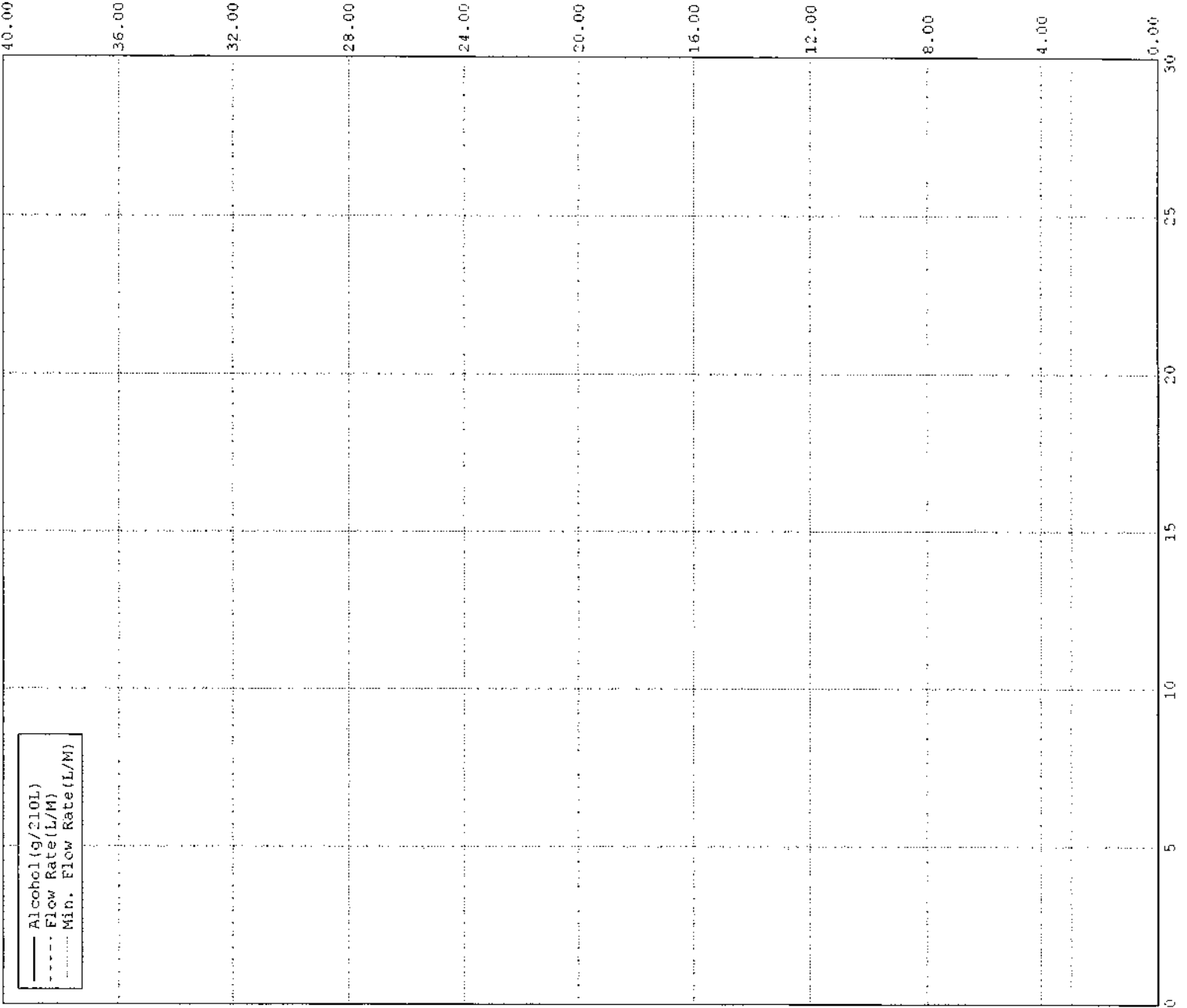
AAAA
CASE/REPORT: 15-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.29: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 10:56
BLANK TEST 0.000 10:56
INTERNAL STANDARD VERIFIED 10:56
EXTERNAL STANDARD 0.077 10:56
BLANK TEST 0.000 10:57

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 12/30/2015
Time: 11:11:13

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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 29.30: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	11:13
BLANK TEST	0.000	11:13
INTERNAL STANDARD	VERIFIED	11:13
EXTERNAL STANDARD	0.077	11:13
BLANK TEST	0.000	11:14
SUBJECT SAMPLE (Vol=2.27L)	0.000	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.077	11:16
BLANK TEST	0.000	11:17

CAB

