

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 100367 Analyst CWF Start Date 8/31/15

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 01315080A2 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 DR4162 Date Calibrated 1/19/15

vi. 0.300g/210L Mnf Guth 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 Guth Lot 14110 Level 0.100 Exp 5/1/16

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 SD1200 Date Calibrated 1/20/15

e. RFI

6. Verify stylus is calibrated

7. Reset Options

8. Clear Memory

9. Verification of Calibration

10. Non-Drinking Subject Test (attached)

11. Upload

13. Remove tank prior to shut down

End Date 9/1/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 08/31/2015
Time: 09:25:18

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 = 46.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.55 V PASSED
(0.90 V - 2.10 V)
Cooler Voltage = 1.69 V PASSED
(1.06 V - 2.48 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 541 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.397 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
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

Xq = 0.081 (0.53%) (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100367

Date: 08/31/2015
Time: 10:04 AM

Temperatures (°C)

Sample Cell: 49.3°C
Breath Tube: 46.9°C

Current Barometer 29.4 in
Volume (Ltr) 1.48

Settings

Lamp: 1.55 V
Bias: 79 V
Cooler: 1.64 V
Chopper: 539 Hz

Voltages (V)

Flow: 1.03 V
Detector: -0.060 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 09/30/2013
Time: 09:33:37

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.942606 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0048 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0814 0.0500 <= Xq < 0.2000
a21 = 1.173194 1.050 <= a21 < 1.300
a31 = 0.380707 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 08/31/2015
Time: 10:07:55

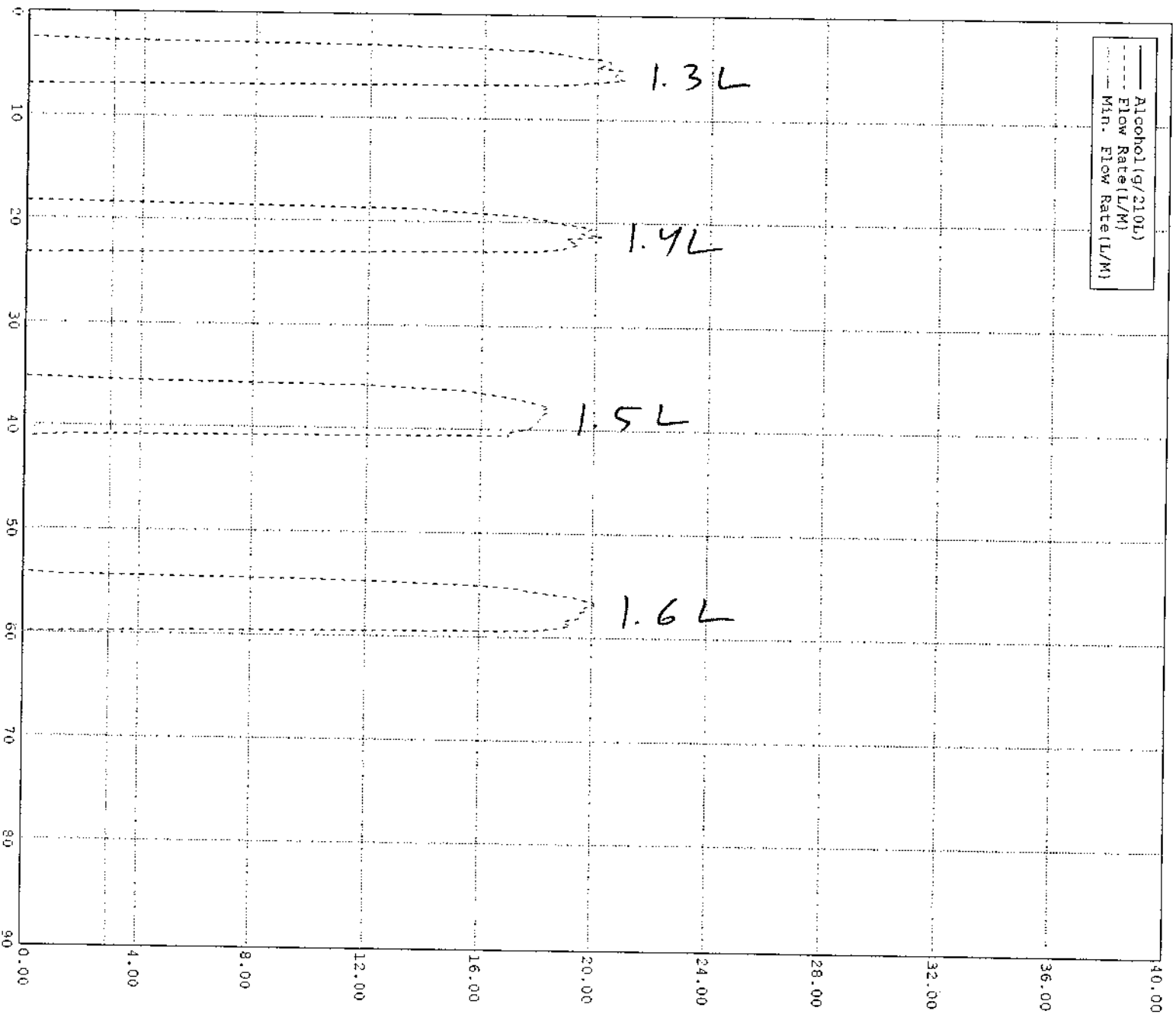
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.38: 0.079
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	10:15
BLANK TEST	0.000	10:15
INTERNAL STANDARD	VERIFIED	10:15
EXTERNAL STANDARD	0.076	10:15
BLANK TEST	0.000	10:16
SUBJECT SAMPLE (Vol=1.55L)	0.000	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.076	10:19
BLANK TEST	0.000	10:20



LINEARITY CHECK

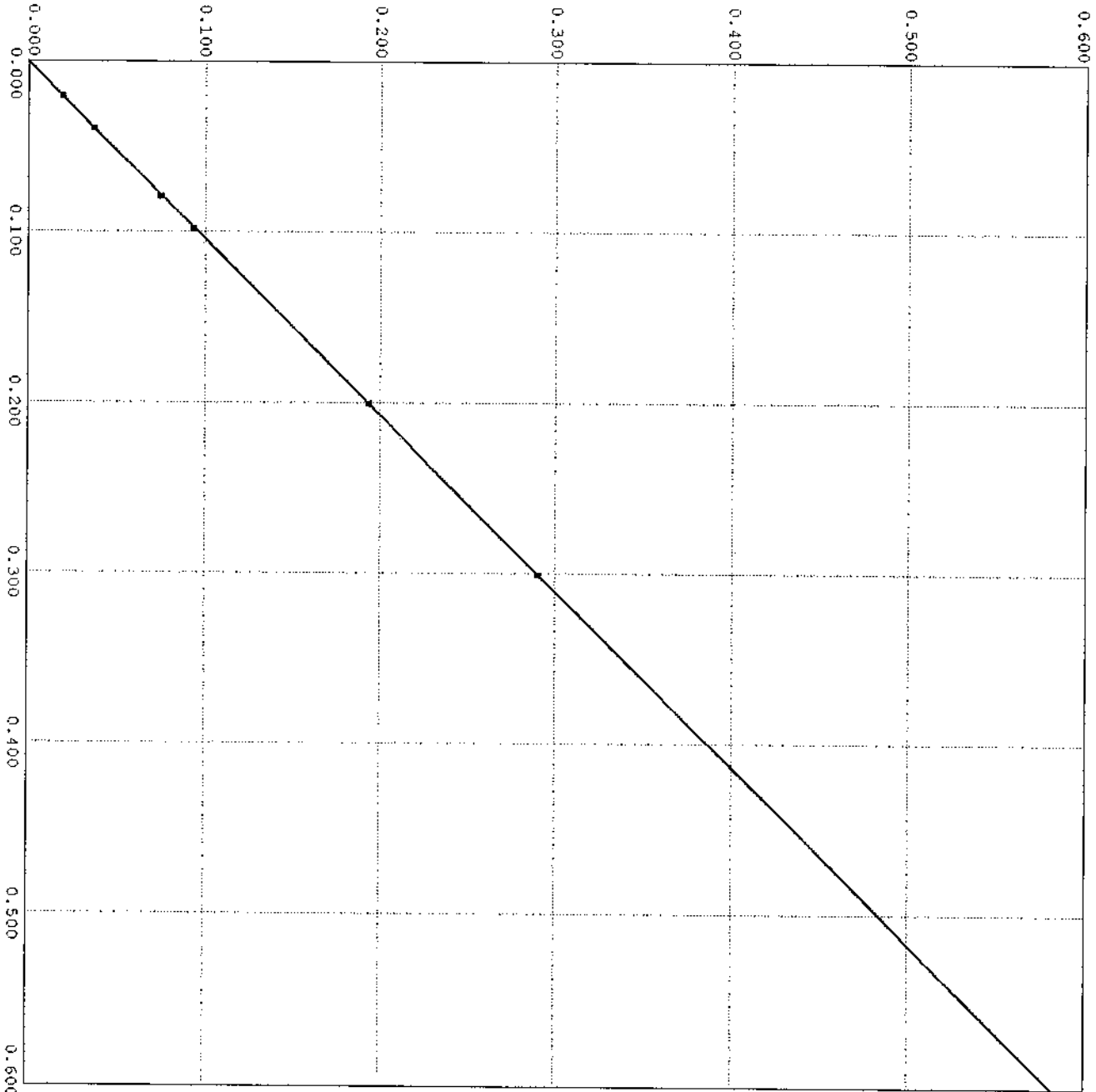
Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 08/31/2015
Time: 12:08:01

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0382	0.0004
0.079	0.0758	0.0004
0.098	0.0942	0.0004
0.200	0.1944	0.0005
0.300	0.2912	0.0004

SLOPE = 0.970545
R² = 0.999961



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100367

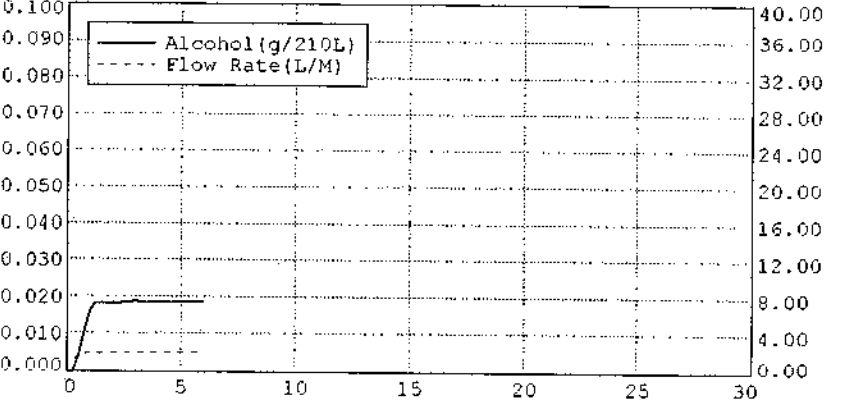
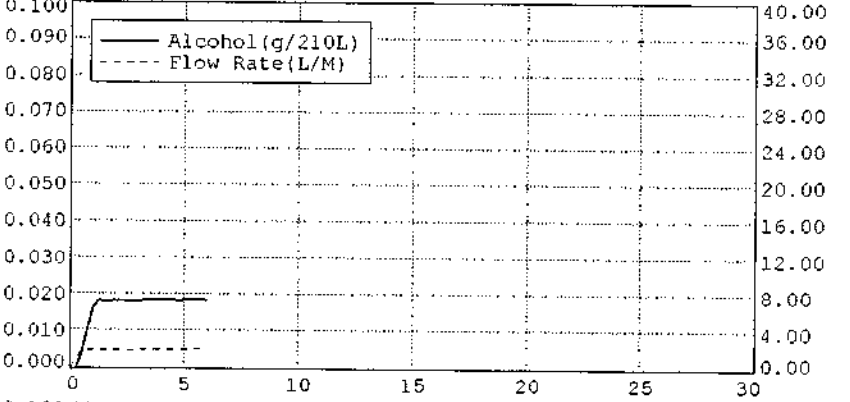
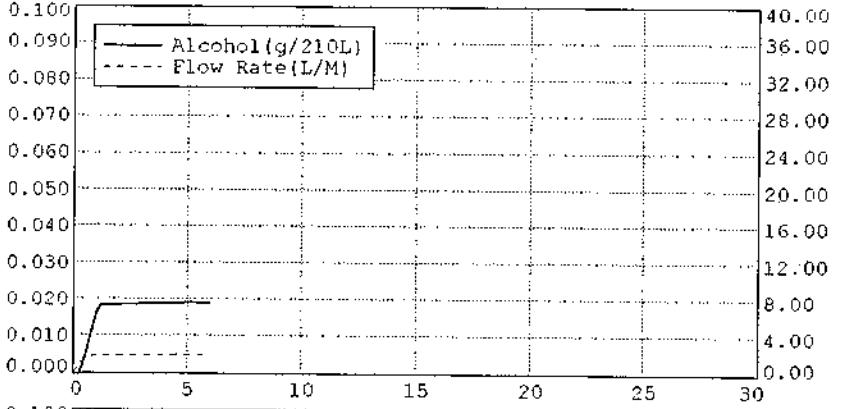
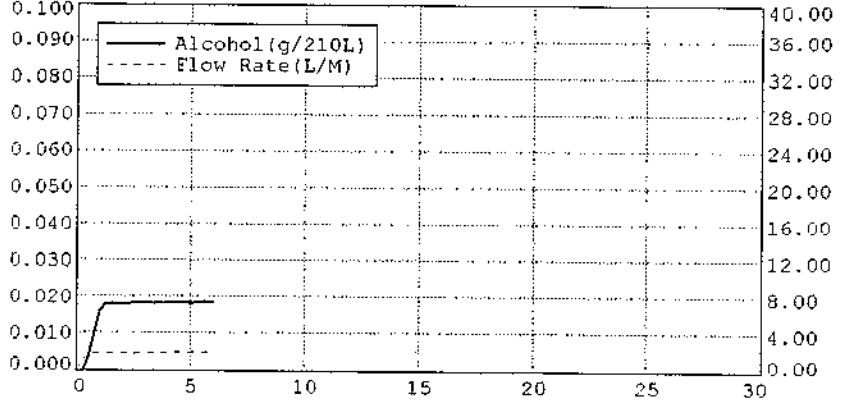
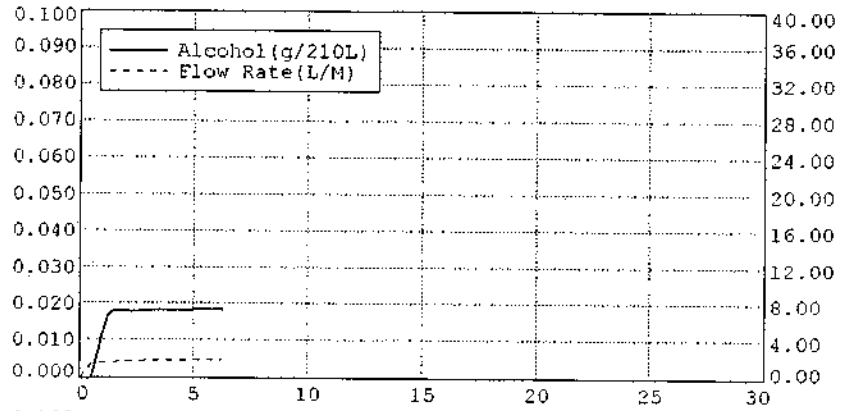
Date: 08/31/2015
 Time: 12:08:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.40: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 402 psi

BLANK TEST	0.000	12:09
INTERNAL STANDARD	VERIFIED	12:09
EXTERNAL STANDARD	0.020	12:09
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.020	12:10
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.020	12:11
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.020	12:13
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.020	12:14
BLANK TEST	0.000	12:15

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100367

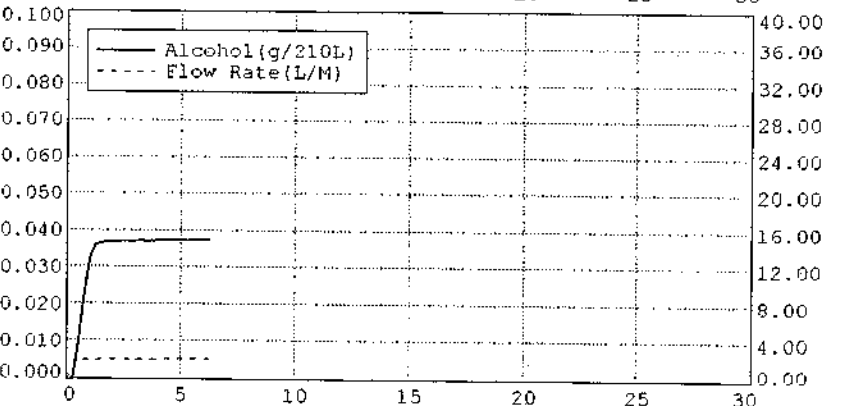
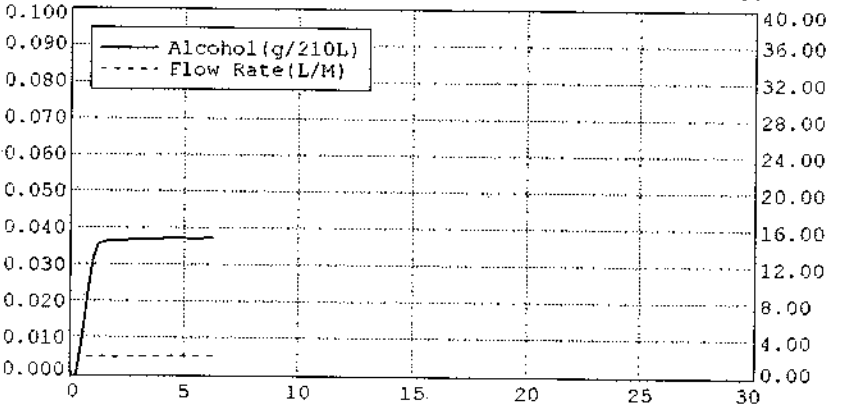
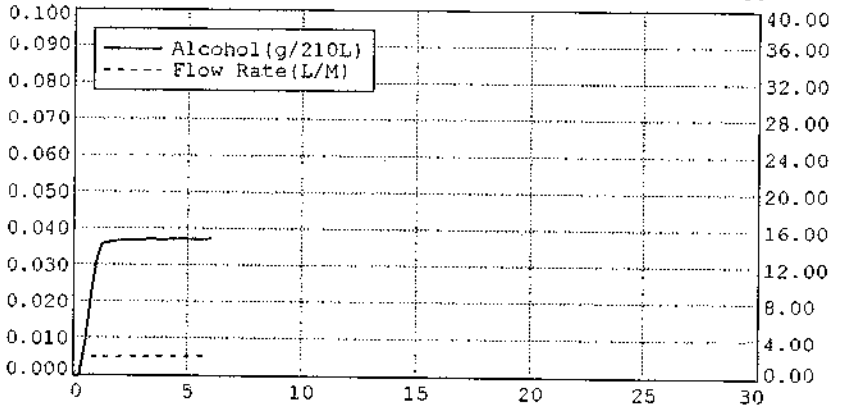
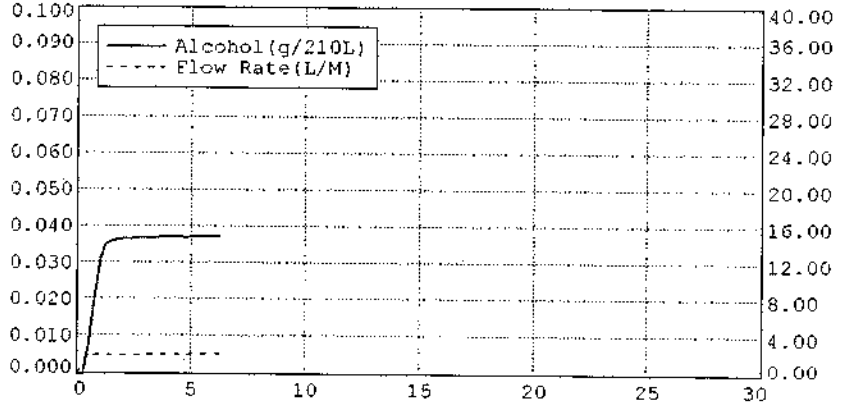
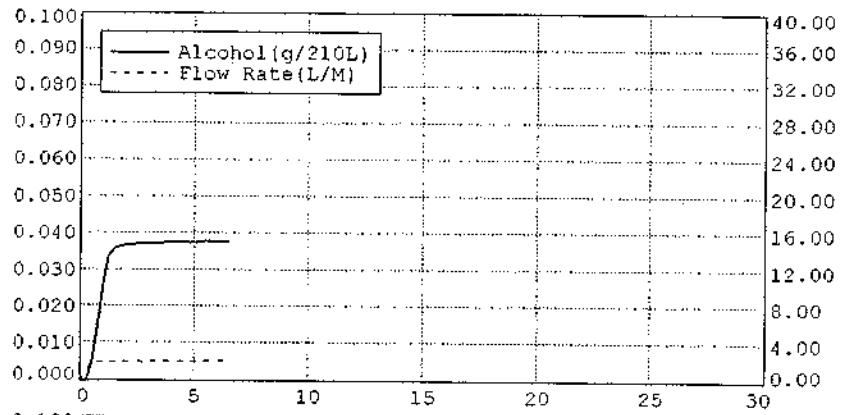
Date: 08/31/2015
 Time: 12:17:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.41: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 492 psi

BLANK TEST	0.000	12:18
INTERNAL STANDARD	VERIFIED	12:18
EXTERNAL STANDARD	0.039	12:18
BLANK TEST	0.000	12:19
EXTERNAL STANDARD	0.038	12:19
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.038	12:20
BLANK TEST	0.000	12:21
EXTERNAL STANDARD	0.038	12:22
BLANK TEST	0.000	12:22
EXTERNAL STANDARD	0.038	12:23
BLANK TEST	0.000	12:24

Average = 0.0382
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100367

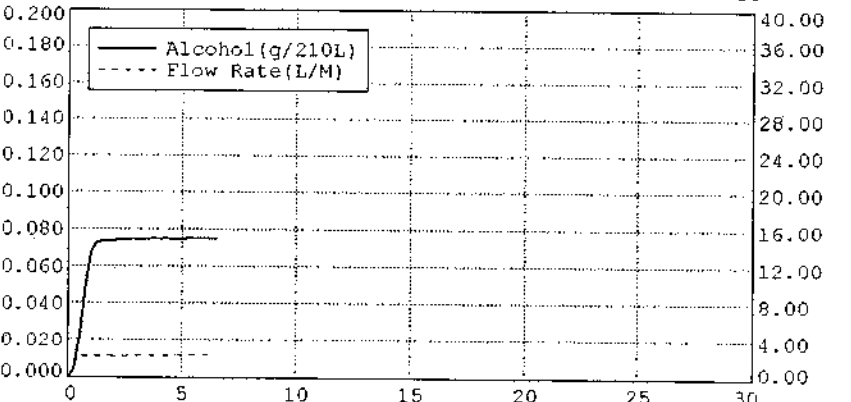
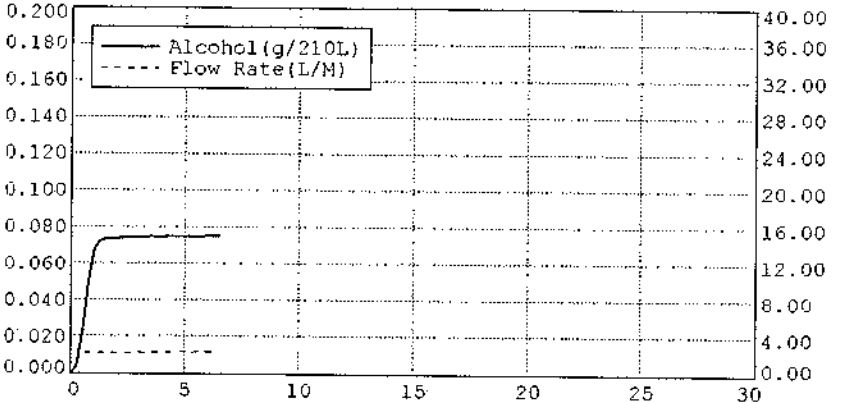
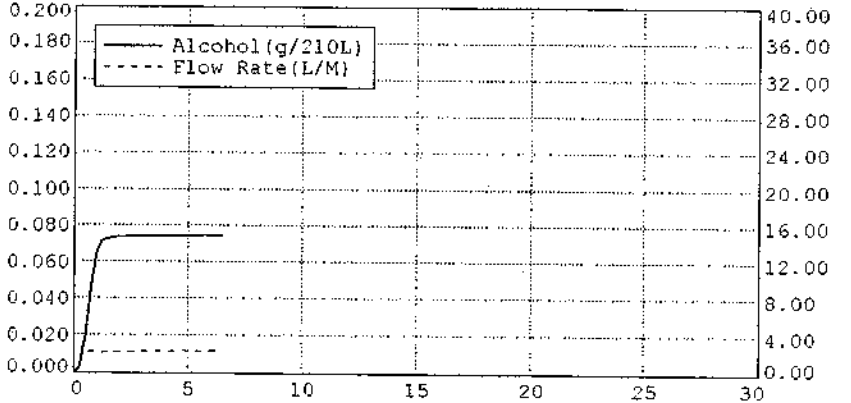
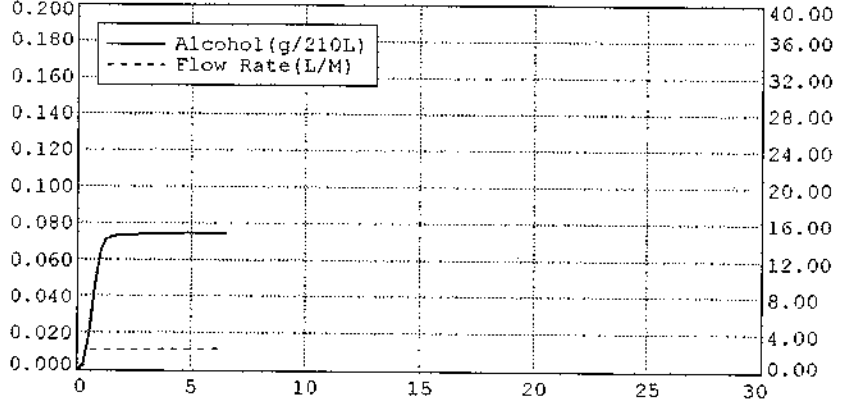
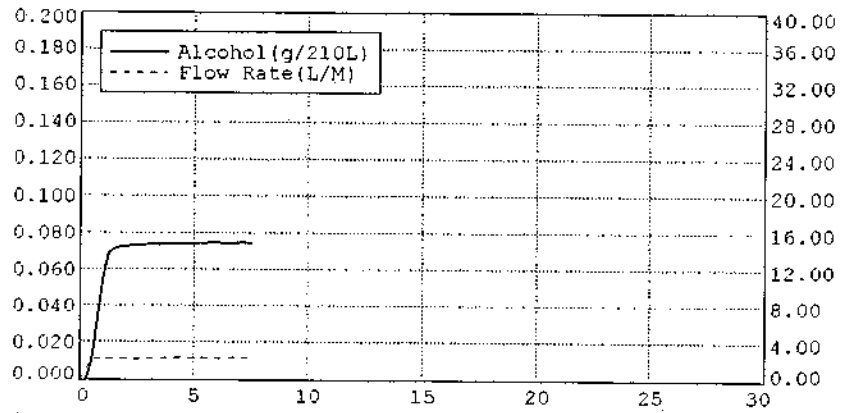
Date: 08/31/2015
 Time: 12:26:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.41: 0.079
 LOT #: 01315080A2
 EXPIRATION: 02/05/2017
 TANK PRESSURE: 1073 psi

BLANK TEST	0.000	12:27
INTERNAL STANDARD	VERIFIED	12:27
EXTERNAL STANDARD	0.076	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.075	12:29
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.076	12:30
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.076	12:31
BLANK TEST	0.000	12:32
EXTERNAL STANDARD	0.076	12:32
BLANK TEST	0.000	12:33

Average = 0.0758
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100367

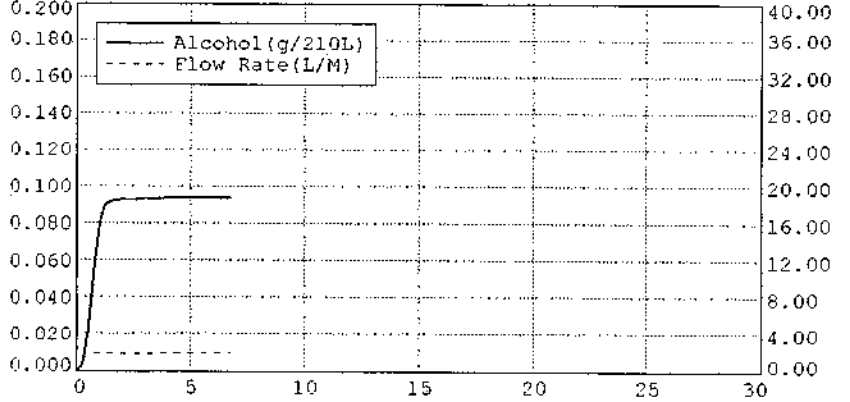
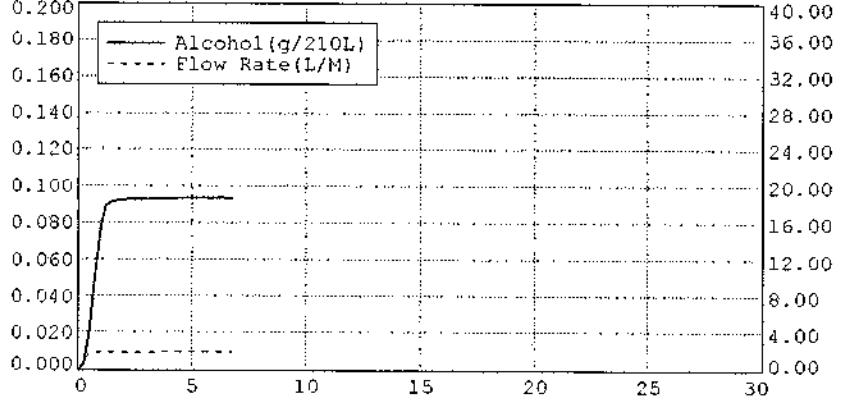
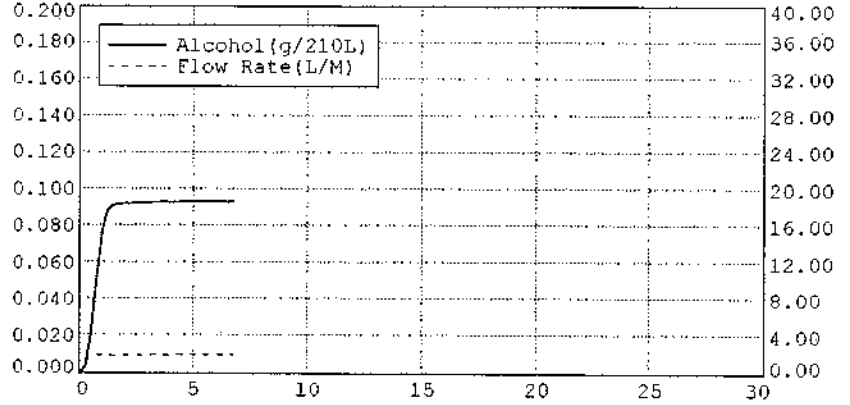
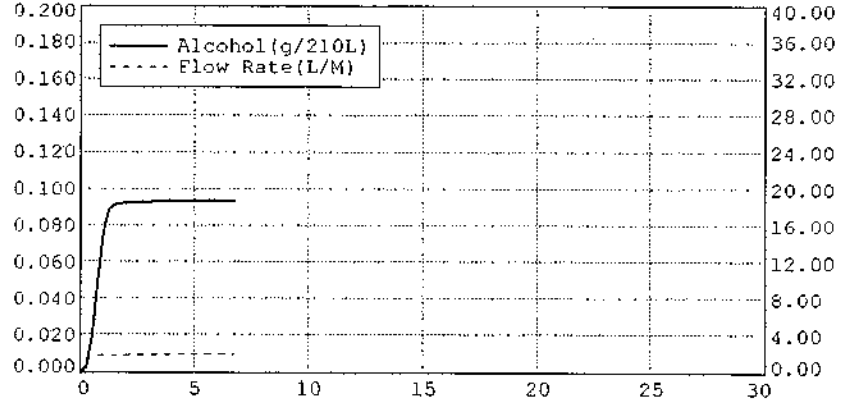
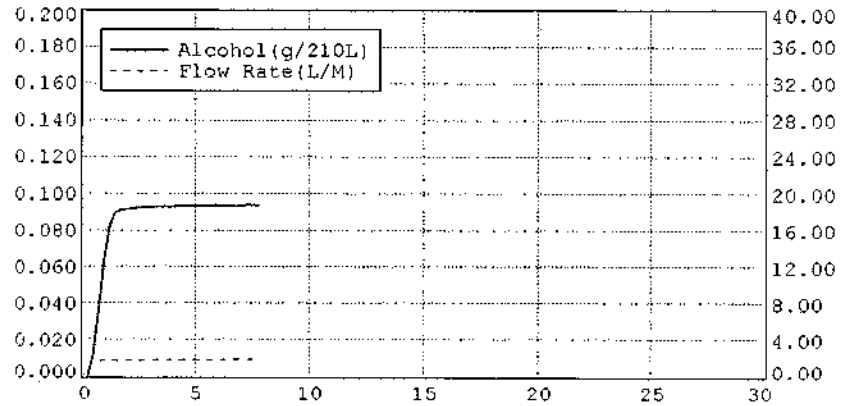
Date: 08/31/2015
 Time: 12:36:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.41: 0.098
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 341 psi

BLANK TEST	0.000	12:37
INTERNAL STANDARD	VERIFIED	12:38
EXTERNAL STANDARD	0.095	12:38
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.094	12:39
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.094	12:40
BLANK TEST	0.000	12:41
EXTERNAL STANDARD	0.094	12:41
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.094	12:42
BLANK TEST	0.000	12:43

Average = 0.0942
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100367

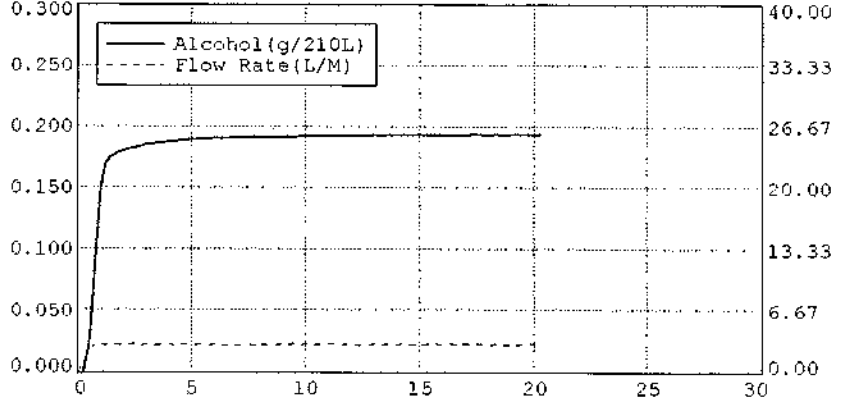
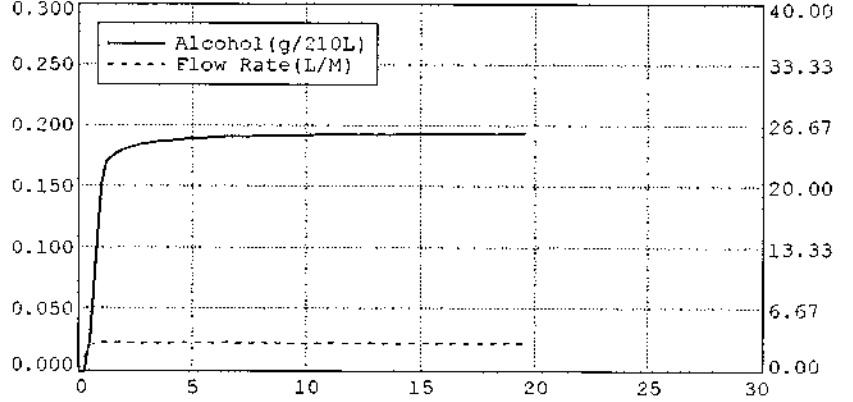
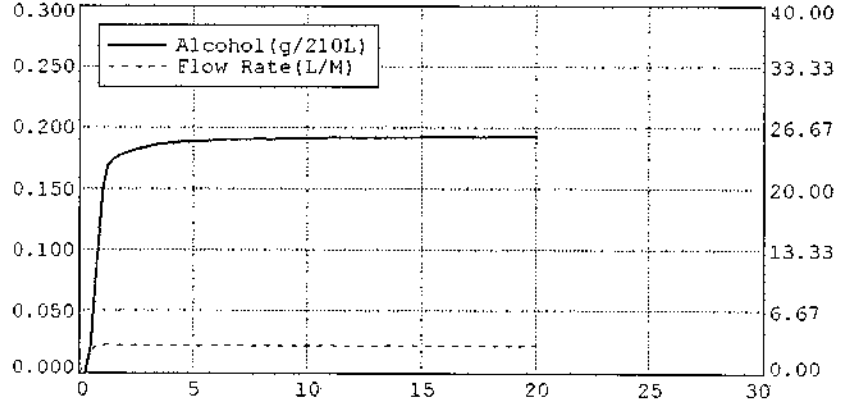
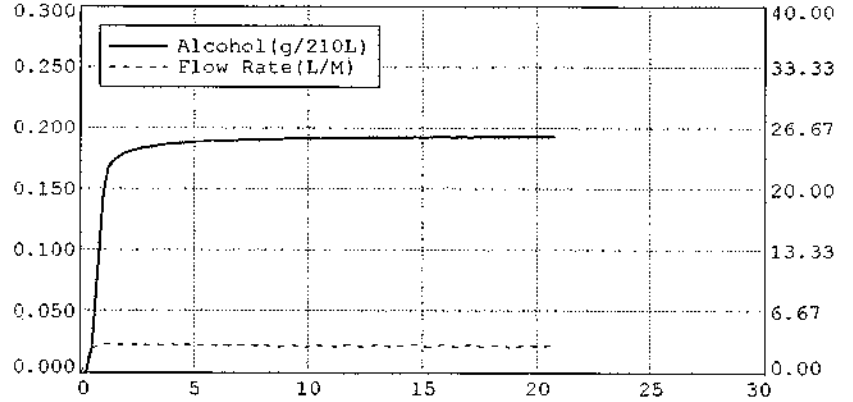
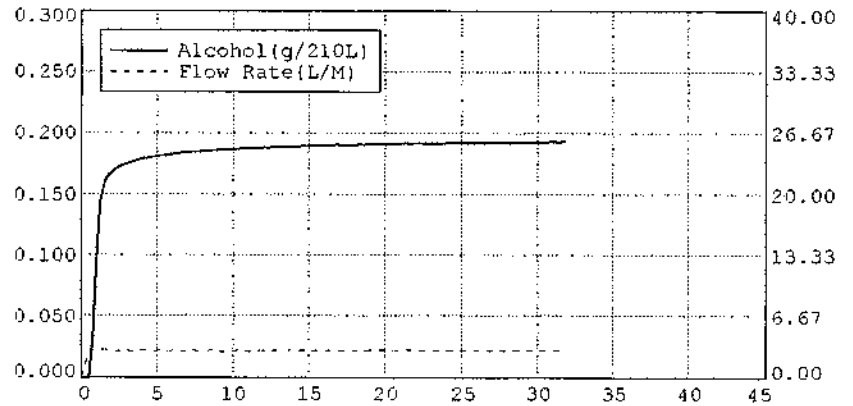
Date: 08/31/2015
 Time: 12:46:22

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:48
INTERNAL STANDARD	VERIFIED	12:48
EXTERNAL STANDARD	0.194	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.194	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.194	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.195	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.195	12:54
BLANK TEST	0.000	12:55

Average = 0.1944
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100367

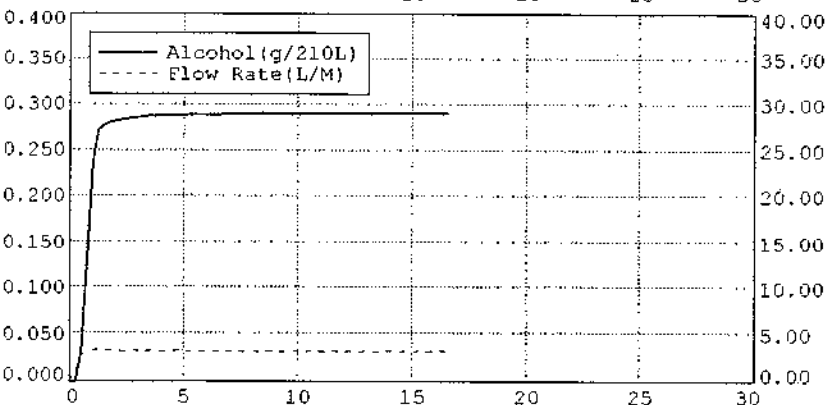
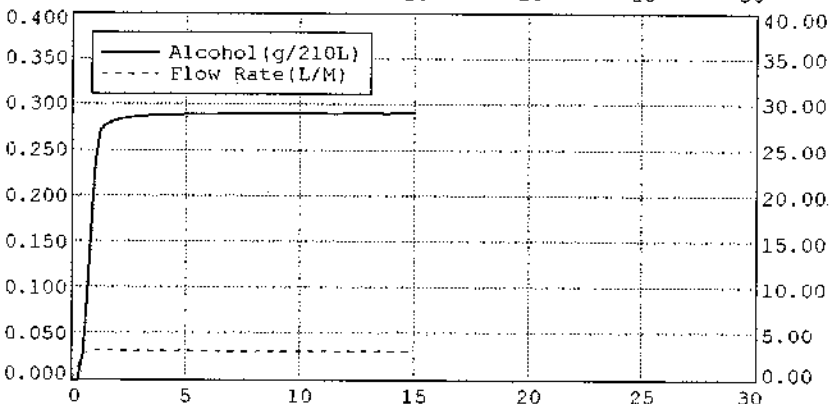
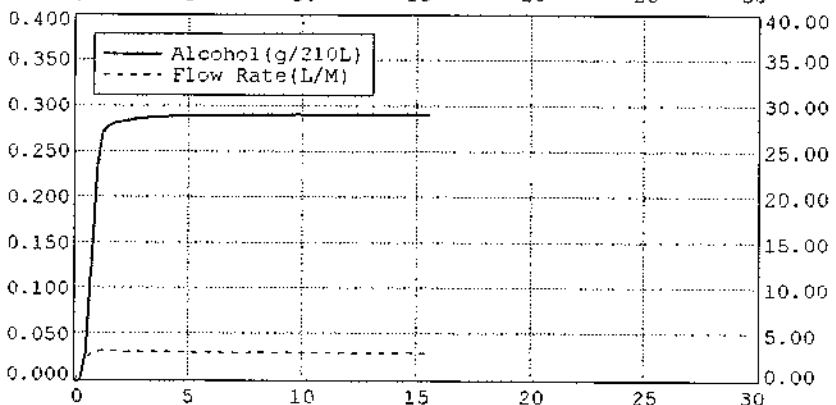
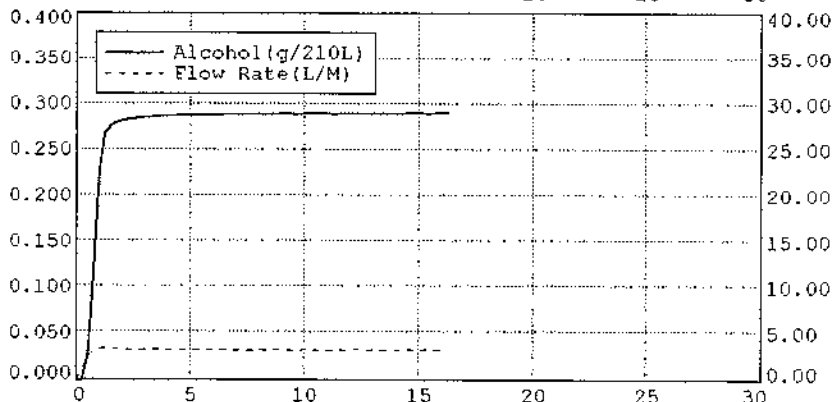
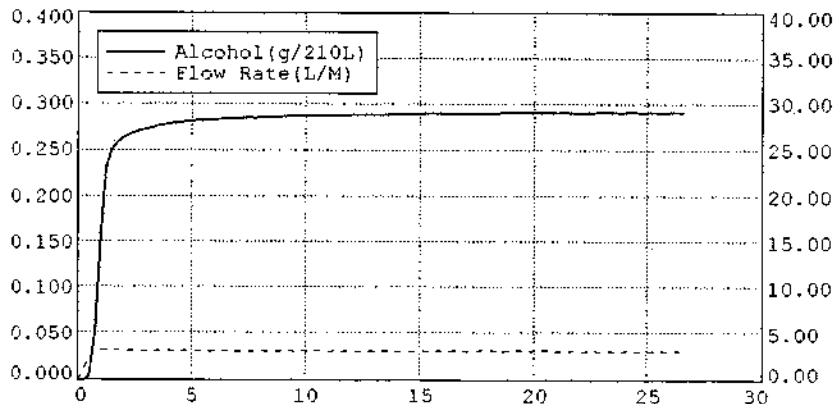
Date: 08/31/2015
 Time: 12:57:19

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:58
INTERNAL STANDARD	VERIFIED	12:58
EXTERNAL STANDARD	0.292	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.291	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.291	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.291	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.291	13:04
BLANK TEST	0.000	13:05

Average = 0.2912
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 09/01/2015
Time: 12:03:28

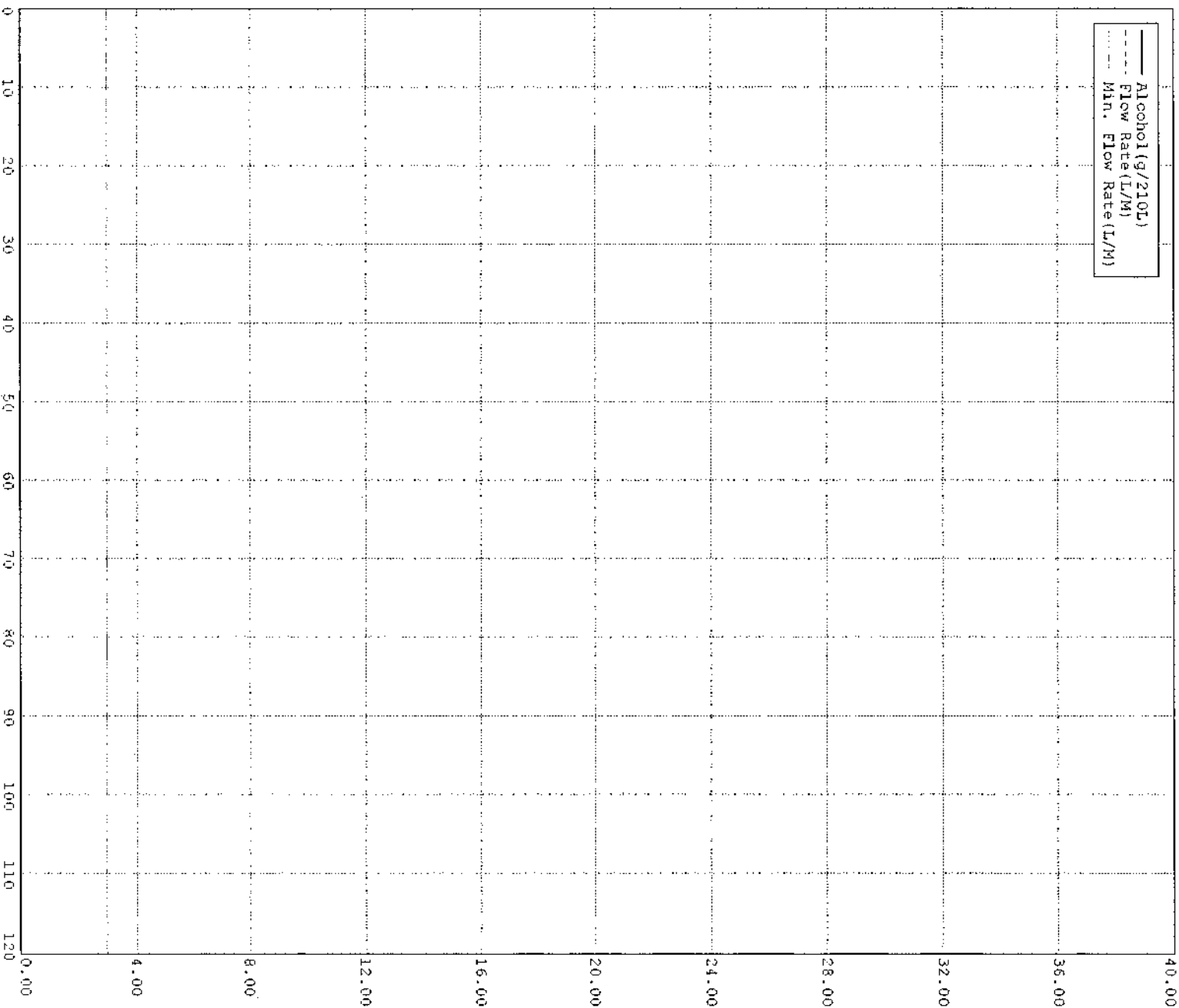
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	12:04
BLANK TEST	0.000	12:04
INTERNAL STANDARD	VERIFIED	12:04
EXTERNAL STANDARD	0.076	12:04
BLANK TEST	0.000	12:05
SUBJECT SAMPLE	INCOMPLETE	12:07



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 09/01/2015
Time: 12:10:49

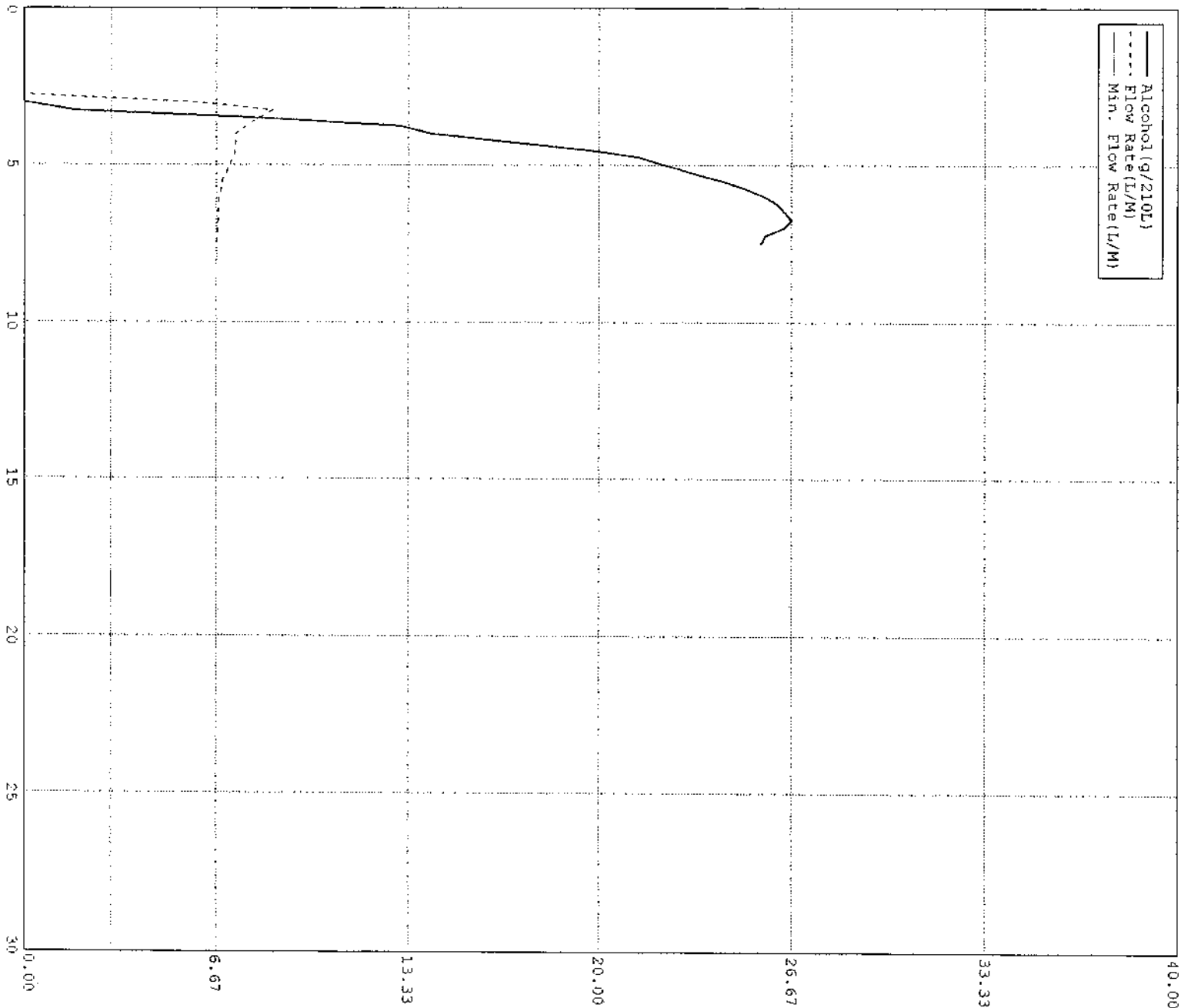
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID XXXX
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	12:14
BLANK TEST	0.000	12:15
INTERNAL STANDARD	VERIFIED	12:15
EXTERNAL STANDARD	0.077	12:15
BLANK TEST	0.000	12:16
SUBJECT SAMPLE	INVALID	12:16



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 09/01/2015
Time: 12:25:09

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE ACETONE
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 01315080A2
EXPIRATION: 02/05/2017

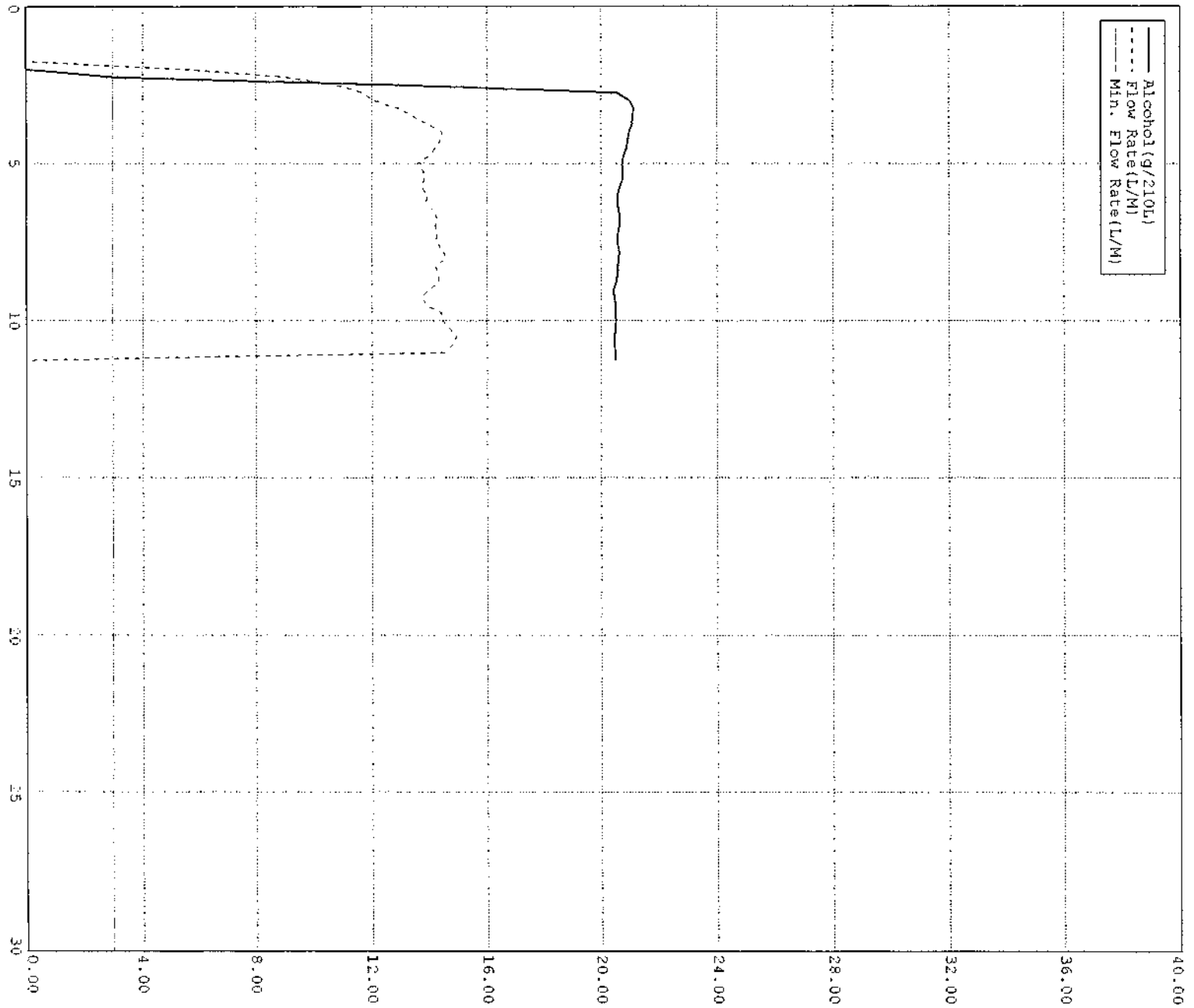
DIAGNOSTIC CHECK	PASSED	12:29
BLANK TEST	0.000	12:29
INTERNAL STANDARD	VERIFIED	12:29
Xq = 0.082 (0.64%)		
EXTERNAL STANDARD	0.077	12:29
X[1] = 0.0771 (0.0001)	(0.0012)	
BLANK TEST	0.000	12:30
SUBJECT SAMPLE	XXX	12:30
X[1] = 0.1026 (-0.0115)	(-0.0004)	

Interference Detected

Filter 2 Average = -0.0007

Filter 3 Average = 0.0007

CRF 9/1/15



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 09/01/2015
Time: 12:32:44

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

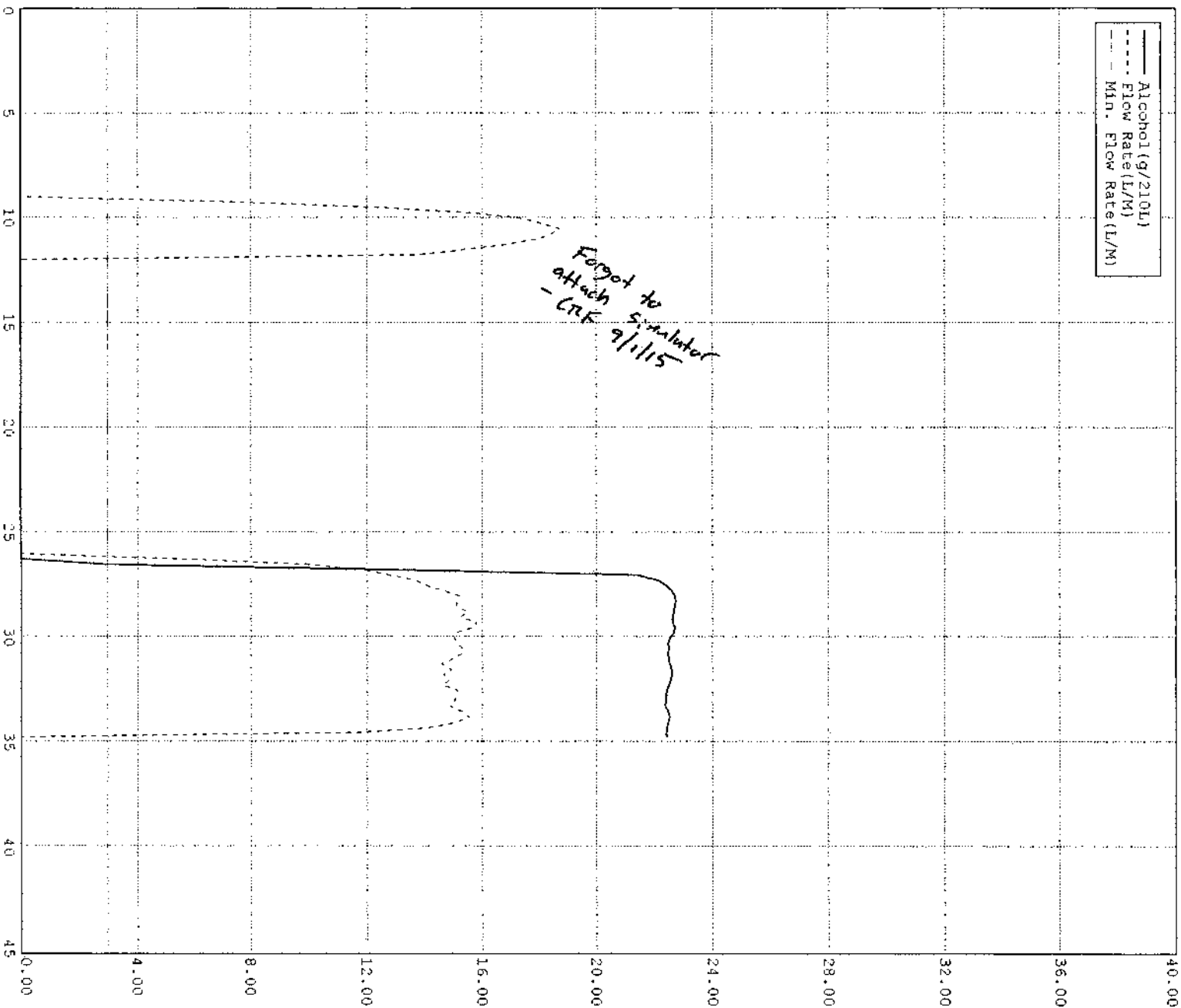
OPERATOR NAME:
INTERFERENCE IPA
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 12:36
BLANK TEST 0.000 12:36
INTERNAL STANDARD VERIFIED 12:36
Xq = 0.082 (0.75%)
EXTERNAL STANDARD 0.077 12:36
X[1] = 0.0773 (-0.0005) (0.0009)
BLANK TEST 0.000 12:37
SUBJECT SAMPLE XXX 12:38
X[1] = 0.1126 (-0.0243) (-0.0005)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 09/01/2015
Time: 12:40:38

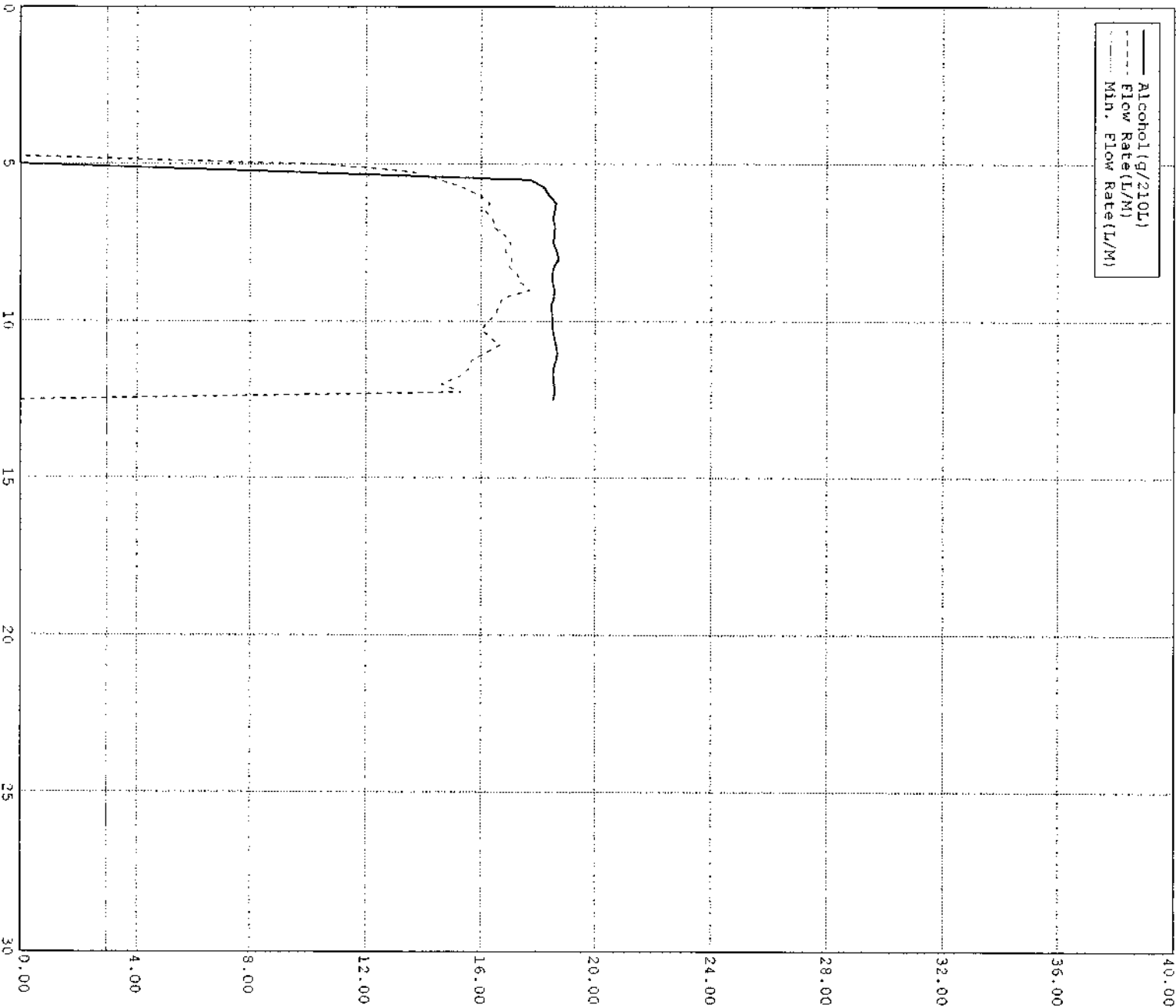
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE NEGATIVE
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	12:43
INTERNAL STANDARD	0.000	12:43
INTERNAL STANDARD	VERIFIED	12:43
Xq = 0.081 (0.32%)		
EXTERNAL STANDARD	0.076	12:43
X[1] = 0.0764 (-0.0010) (0.0009)		
BLANK TEST	0.000	12:44
SUBJECT SAMPLE (Vol=2.00L)	0.093	12:44
X[1] = 0.0937 (0.0004) (0.0003)		
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.077	12:45
X[1] = 0.0766 (-0.0014) (-0.0001)		
BLANK TEST	0.000	12:46



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100367

Date: 09/01/2015
Time: 13:12:23

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

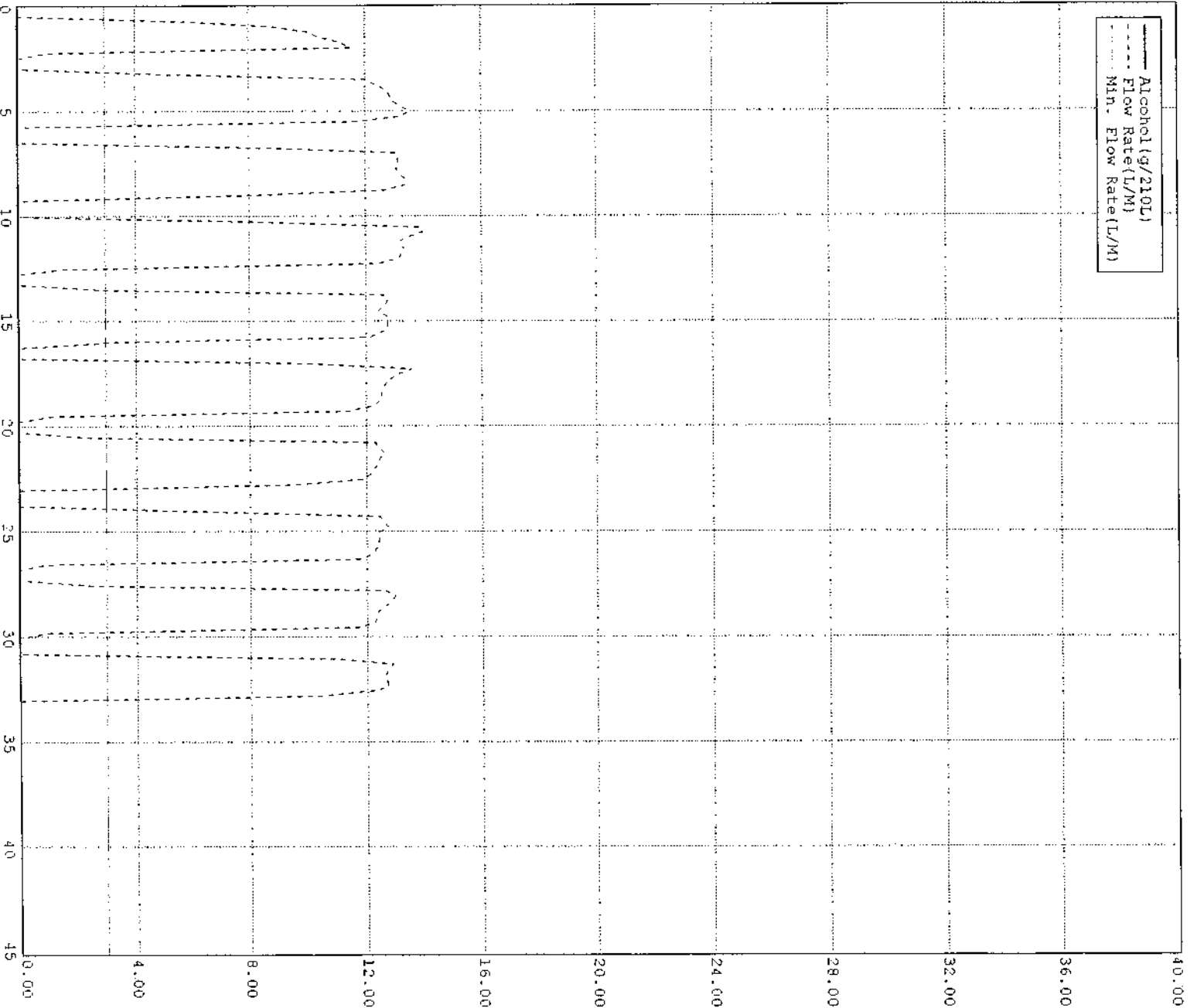
OPERATOR NAME:
EXCEEDED ATTEMPTS
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	13:16
BLANK TEST	0.000	13:16
INTERNAL STANDARD	VERIFIED	13:16
EXTERNAL STANDARD	0.077	13:16
BLANK TEST	0.000	13:17
SUBJECT SAMPLE	XXX	13:18

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 09/01/2015
Time: 13:21:03

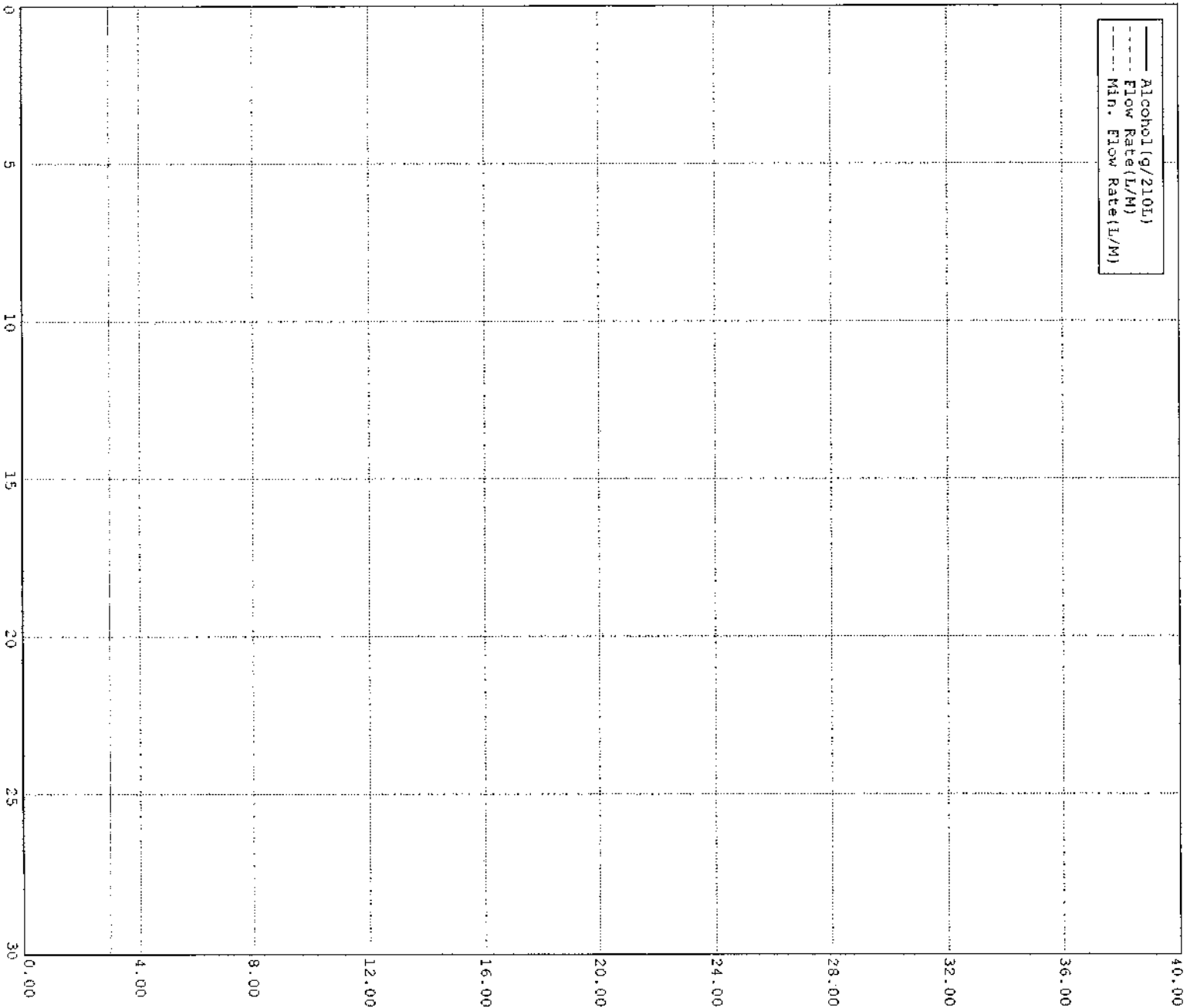
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK PASSED 13:22
BLANK TEST 0.000 13:22
INTERNAL STANDARD VERIFIED 13:22
EXTERNAL STANDARD 0.077 13:22
BLANK TEST 0.000 13:23
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 09/01/2015
Time: 13:38:24

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX
OPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: 01315080A2
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	13:41
BLANK TEST	0.000	13:41
INTERNAL STANDARD	VERIFIED	13:41
EXTERNAL STANDARD	0.077	13:41
BLANK TEST	0.000	13:42
SUBJECT SAMPLE (Vol=2.51L)	0.000	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.077	13:44
BLANK TEST	0.000	13:45

