

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100413 Analyst CTF Start Date 6/20/13

Diagnostic Test (attached)

1. Voltage Checks

a. Adjust voltages, if needed

i. Lamp (2.6V Maximum)

ii. Bias (80V)

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 1500 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf ILMO Lot 00813020A1 Exp 3/1/15

ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15

iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14

iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15

v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/14

1. Simulator S/N DR4162 Date Calibrated 10/9/12

vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15

1. Simulator S/N DR4163 Date Calibrated 10/8/12

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 11220 Level 0.10 Exp 10/24/13

1. Simulator S/N DR5298 Date Calibrated 10/8/12

ii. Isopropanol - Mnf Guth Lot 11220 Level 0.10 Exp 10/24/13

1. Simulator S/N SD1202 Date Calibrated 10/9/12

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N SD1176 Date Calibrated 10/9/12

d. RFI

6. Verify stylus is calibrated

7. Verify card reader is functional

8. Reset Options

9. Clear Memory

10. Verification of Calibration

11. Non-Drinking Subject Test (attached)

12. Upload

13. Update agency information and polling status in DM Host Calling Program

End Date 6/20/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dnt: 100413

Date: 06/20/2013
Time: 10:13:28

VERSIONS
DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.915 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 dnt: 100413

Date: 06/20/2013
Time: 11:03 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 48.0°C

Current Barometer 29.5 in
Volume (Ltr) 1.49

Settings
Lamp: 1.82 V
Bias: 79 V
Cooler: 1.61 V
Chopper: 540 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.025 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100413

Date: 04/11/2012
Time: 05:10:23

Ca = 0.1000
CAL = 0.972379 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0043 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.0905 0.0500 <= Xq < 0.2000
a21 = 1.134155 1.050 <= a21 < 1.300
a31 = 0.441149 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER Unit: 100413
 Date: 06/20/2013
 Time: 11:19:30

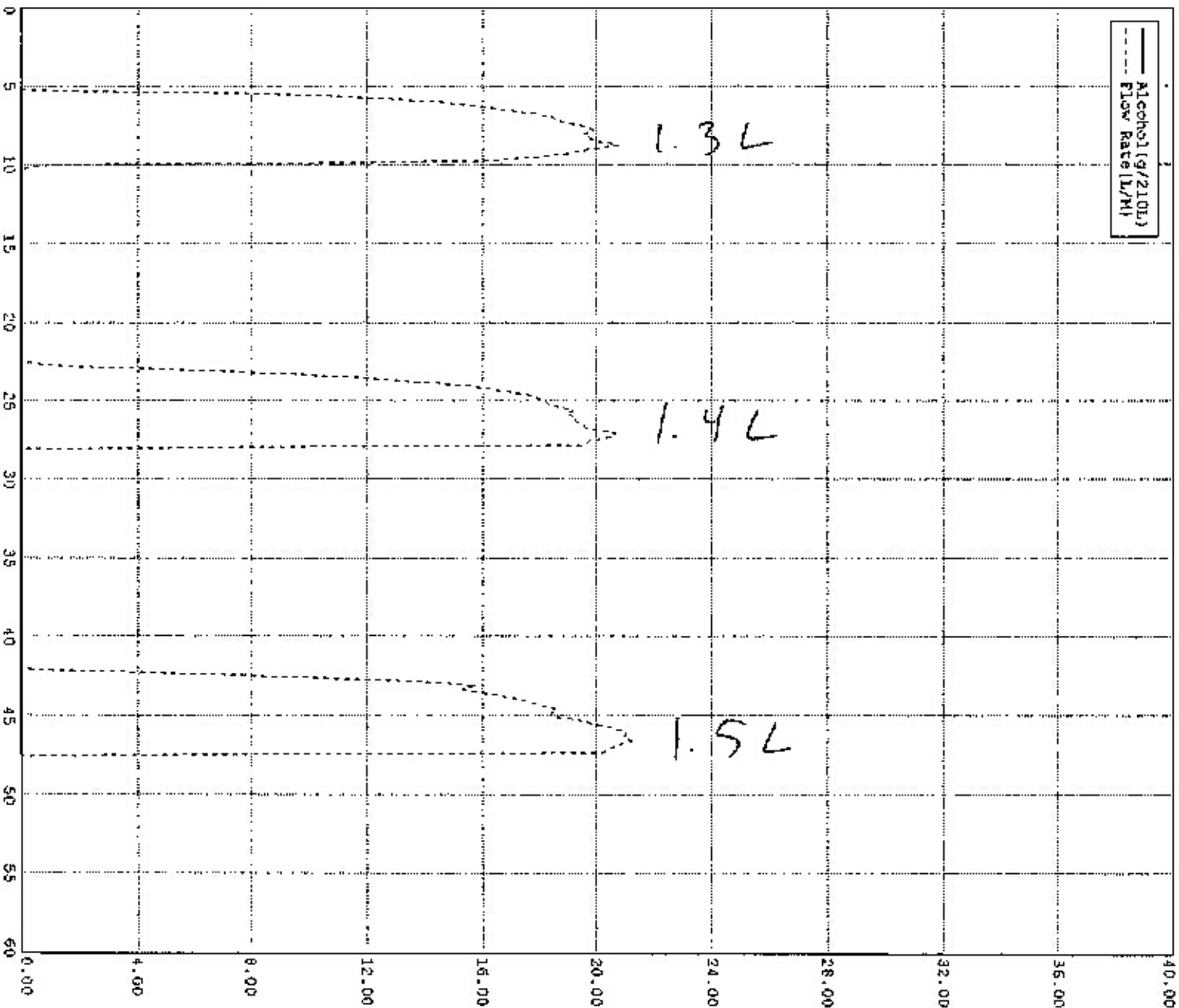
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.50: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:19
BLANK TEST	0.000	11:19
INTERNAL STANDARD	0.077	11:19
EXTERNAL STANDARD	0.000	11:21
BLANK TEST	0.000	11:21
SUBJECT SAMPLE	0.000	11:22
BLANK TEST	0.078	11:23
EXTERNAL STANDARD	0.000	11:24
BLANK TEST	0.000	11:24



LINEARITY CHECK

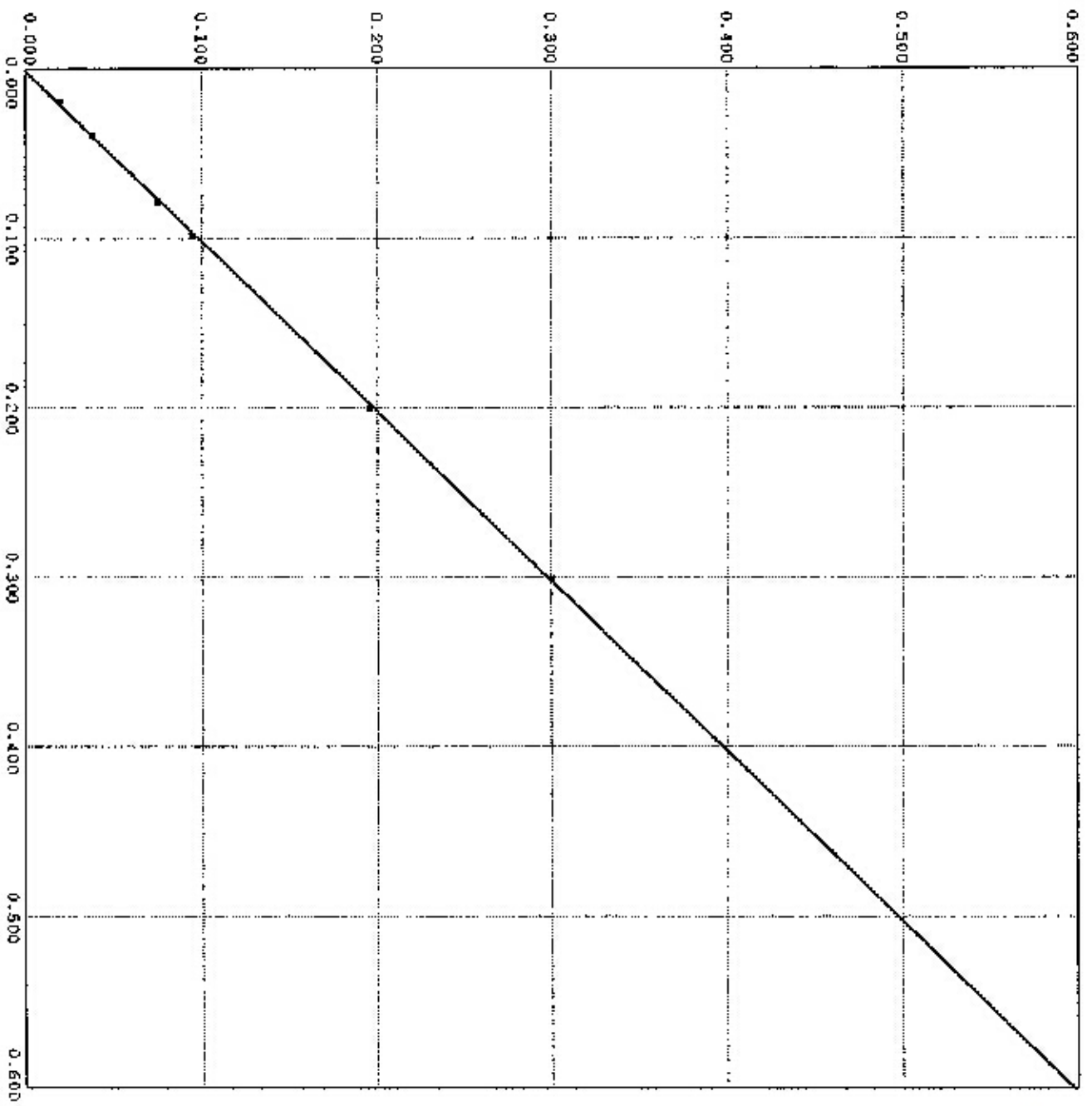
Alaska Department of Public Safety
 DAFWMASTER dnt: 100413

Date: 06/20/2013
 Time: 13:07:52

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0204	0.0002
0.039	0.0390	0.0003
0.078	0.0760	0.0002
0.098	0.0953	0.0004
0.200	0.1966	0.0004
0.300	0.3009	0.0005

SLPBE = 0.999383
 R² = 0.999654



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dnt: 100413

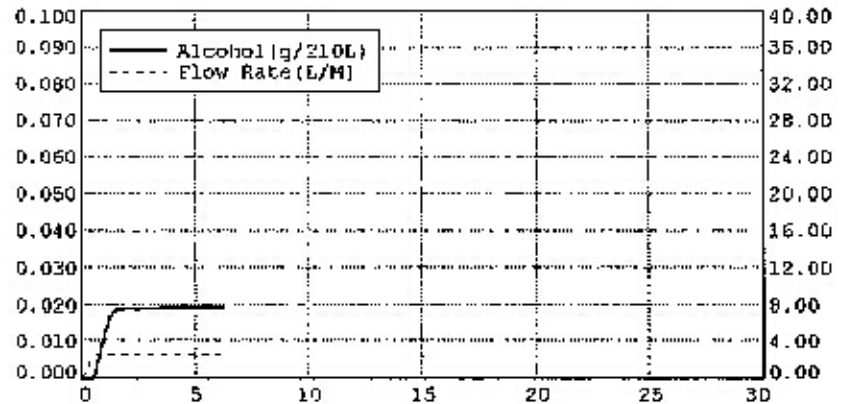
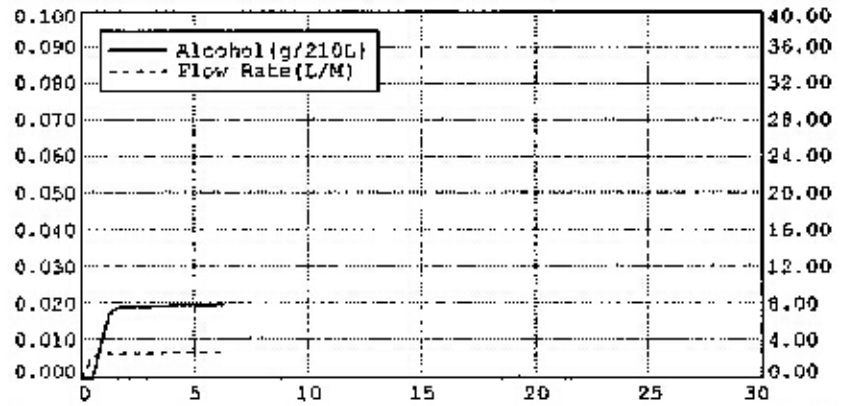
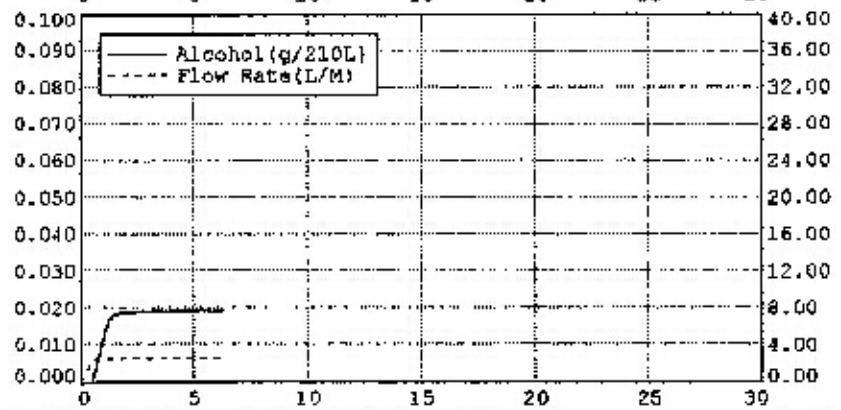
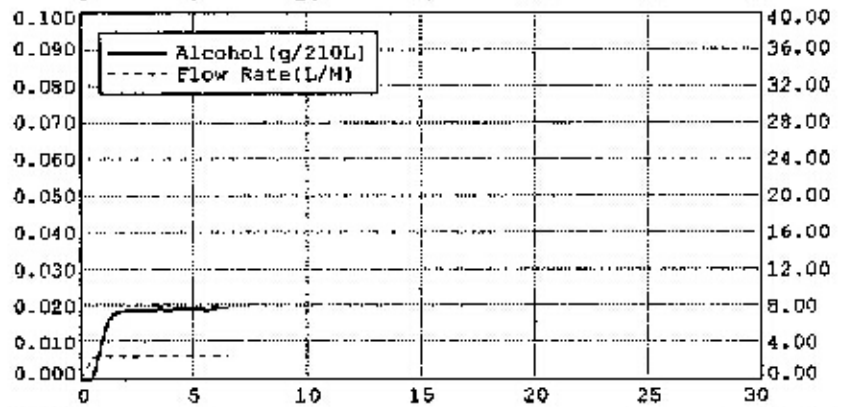
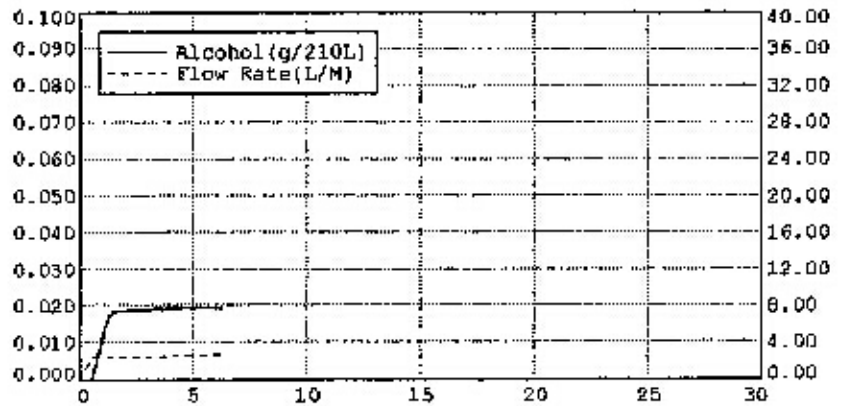
Date: 06/20/2013
Time: 13:07:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.49: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

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

Average = 0.0204
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

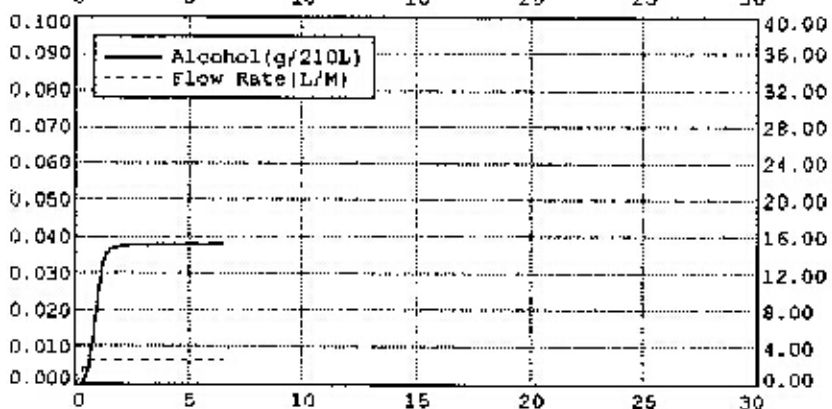
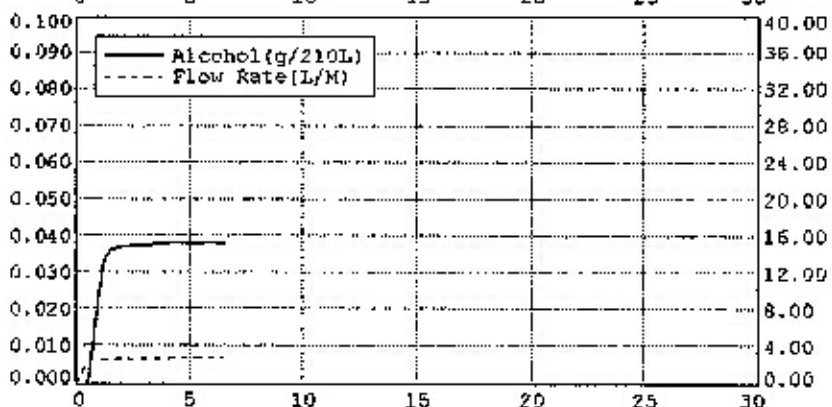
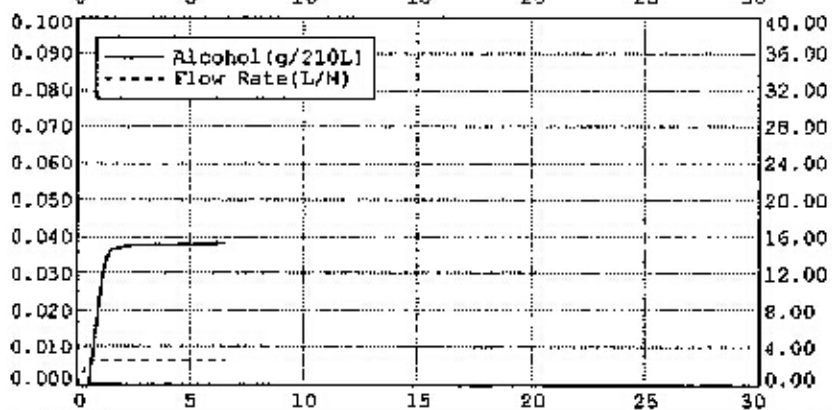
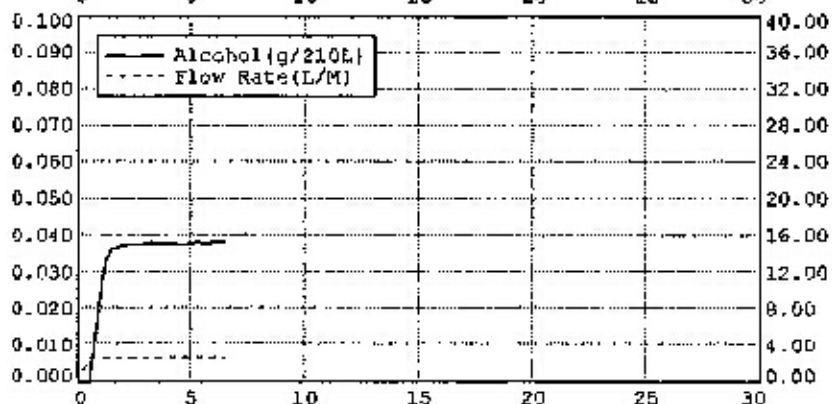
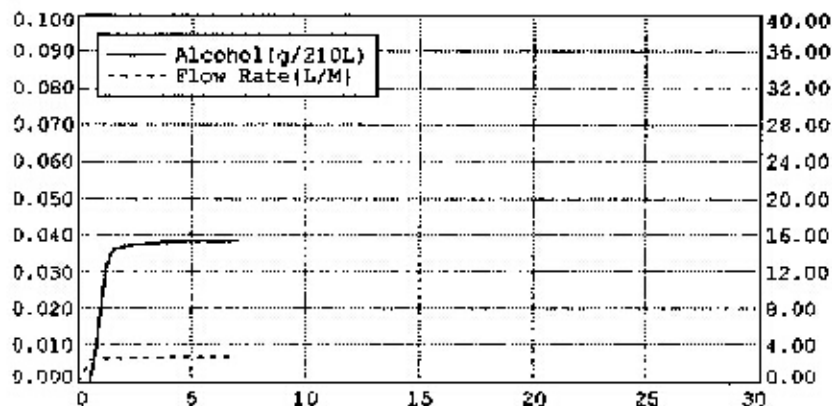
Date: 06/20/2013
 Time: 13:15:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.49: 0.039
 LOT #: D0B13D40A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:16
INTERNAL STANDARD	VERIFIED	13:16
EXTERNAL STANDARD	0.039	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.038	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.038	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.038	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.039	13:21
BLANK TEST	0.000	13:22

Average = 0.0390
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dnt: 100413

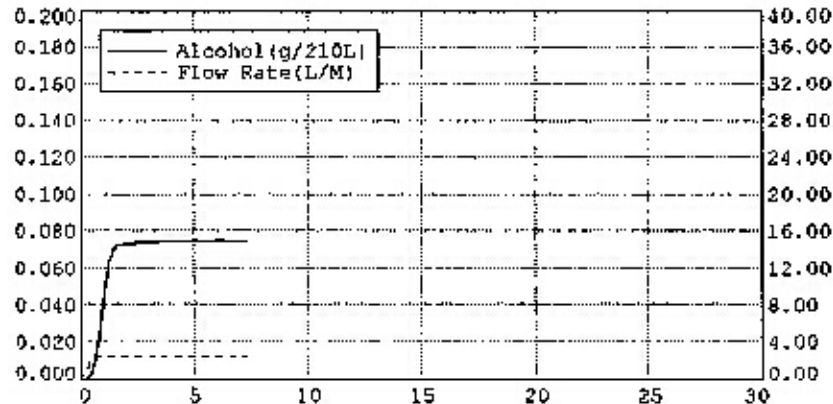
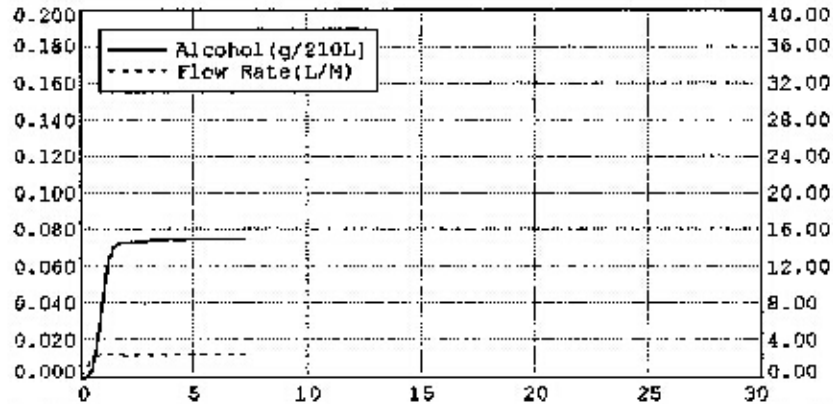
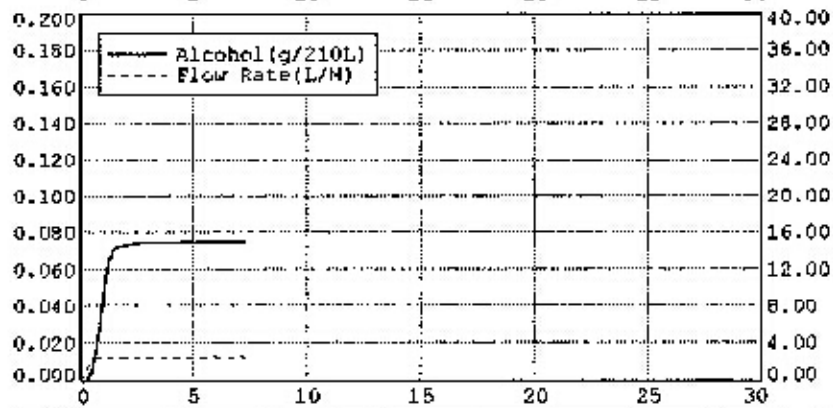
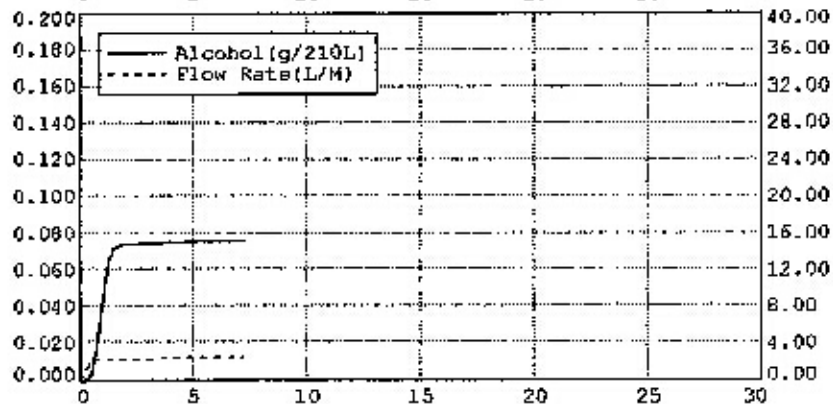
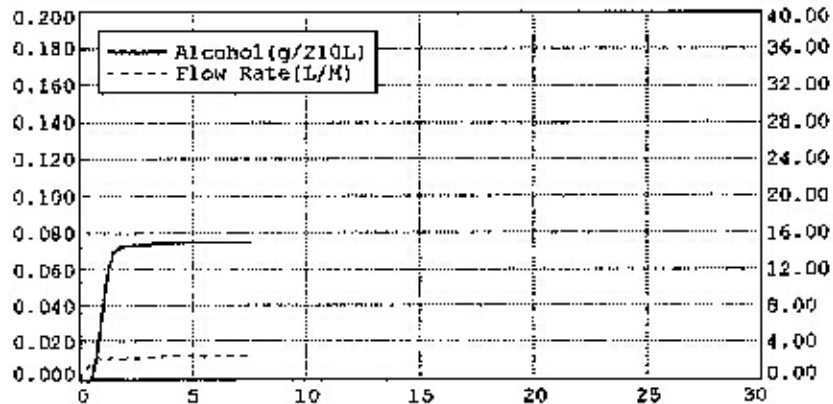
Date: 06/20/2013
 Time: 13:23:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.49: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.078	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.078	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.078	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.075	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.075	13:29
BLANK TEST	0.000	13:30

Average = 0.0760
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dnt: 100413

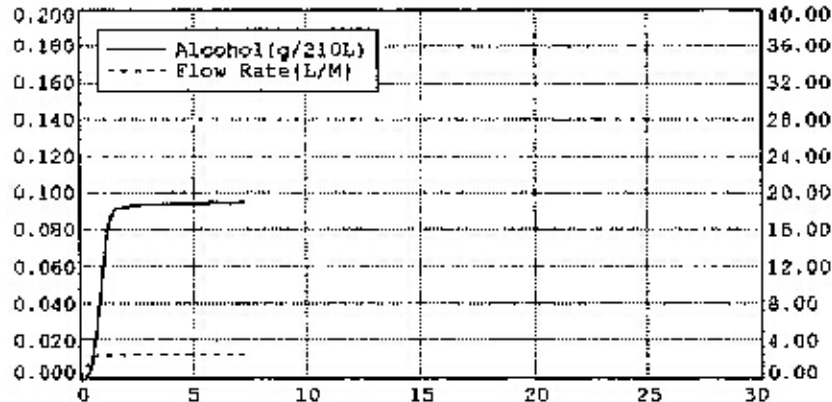
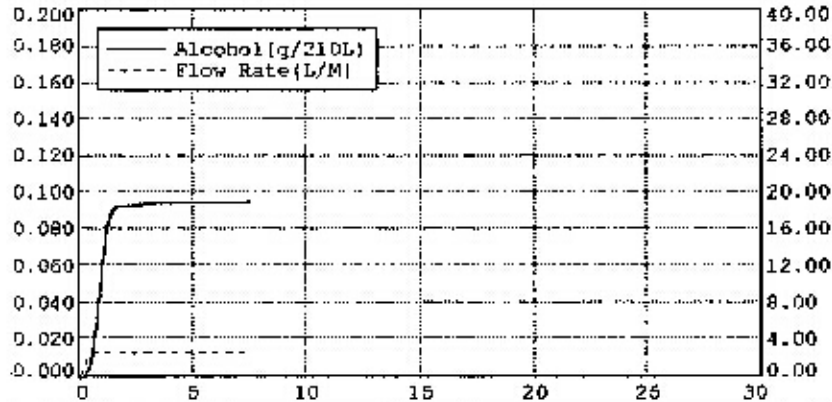
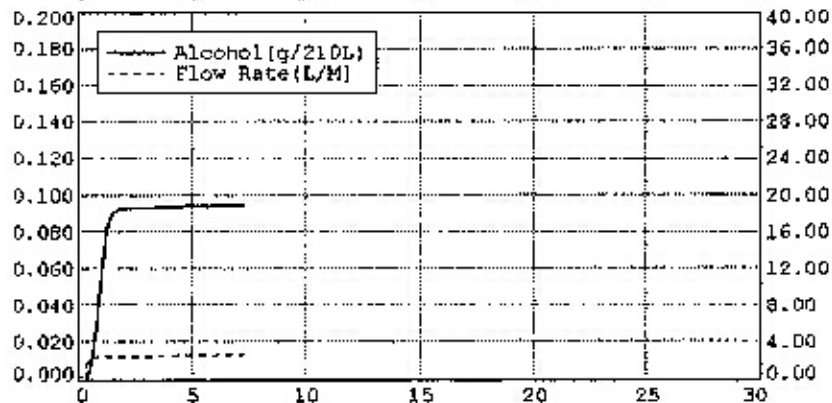
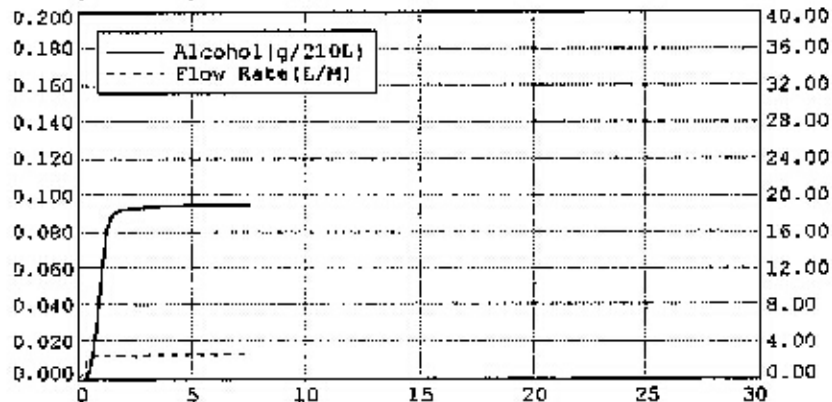
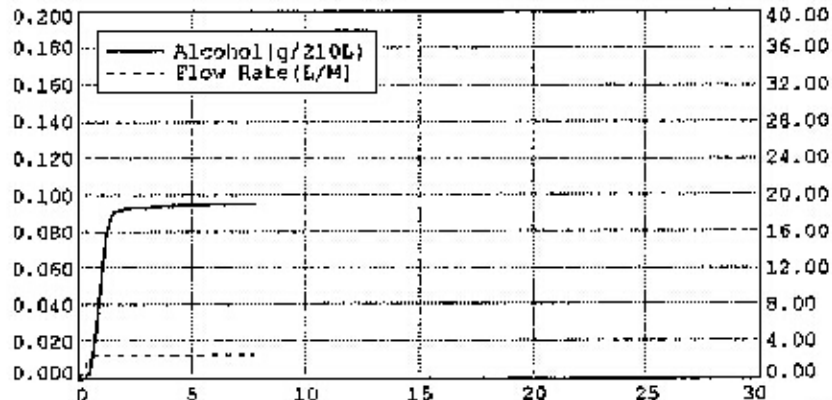
Date: 06/20/2013
 Time: 13:30:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.48: 0.098
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:32
INTERNAL STANDARD	VERIFIED	13:32
EXTERNAL STANDARD	0.096	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.095	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.095	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.095	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.095	13:37
BLANK TEST	0.000	13:38

Average = 0.0953
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER ch#: 100413

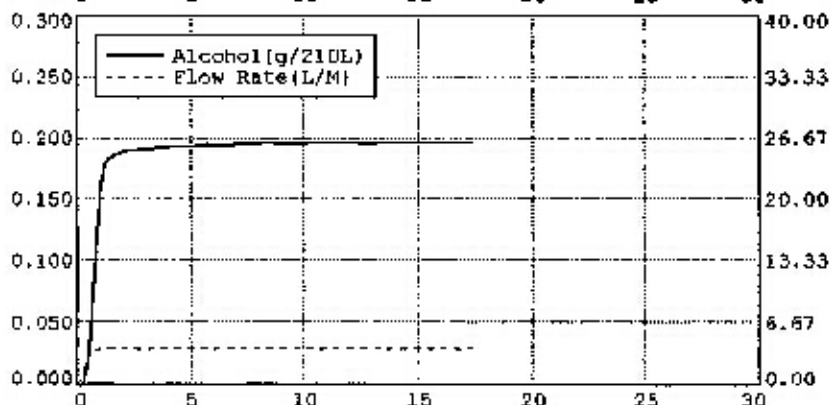
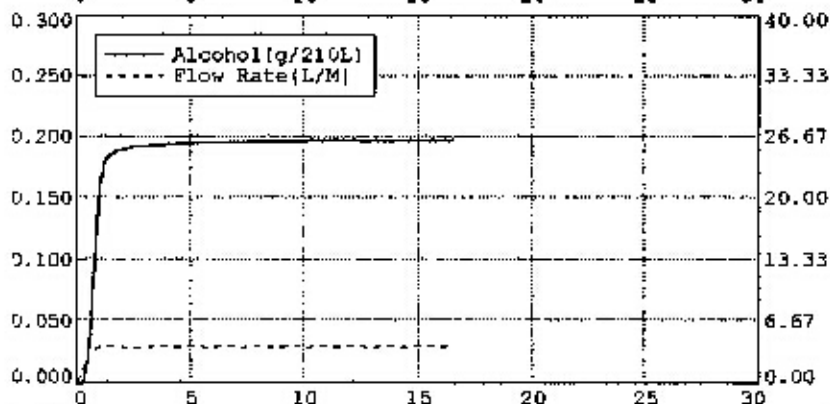
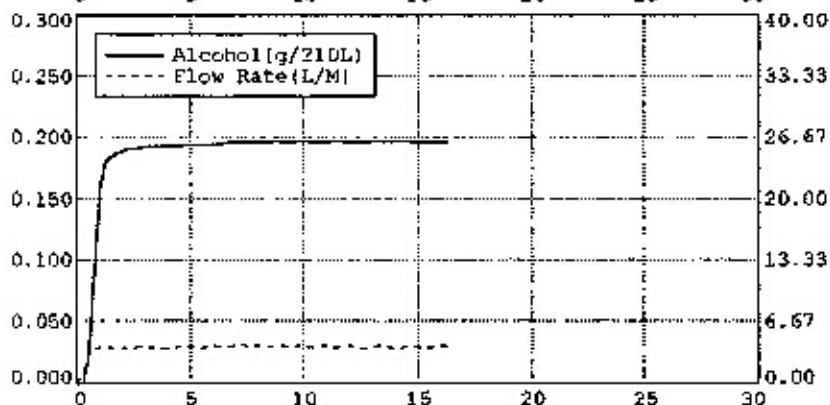
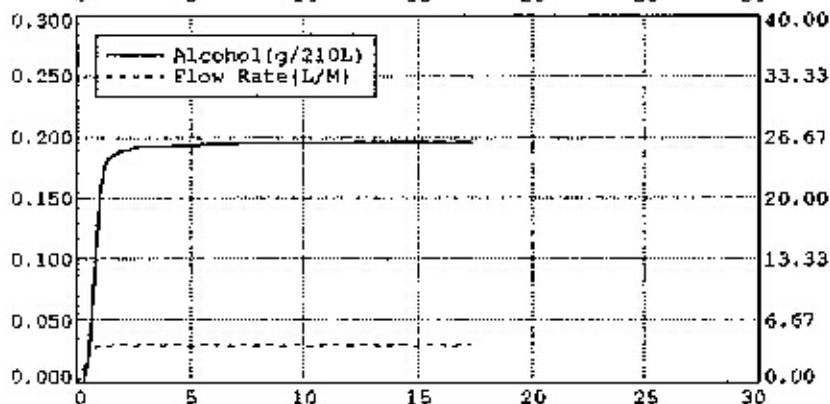
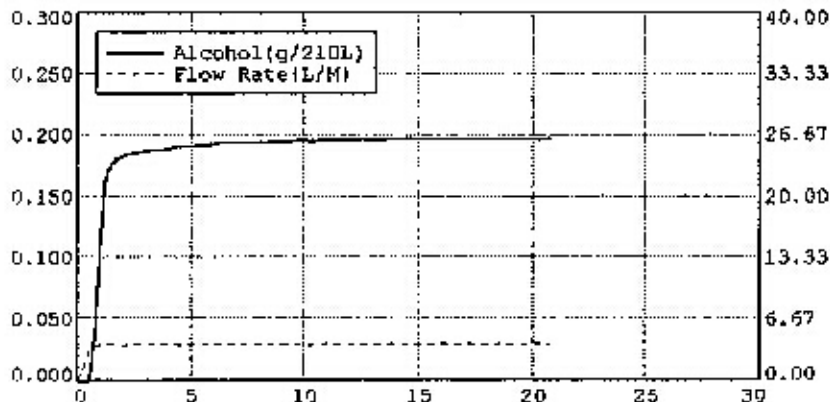
Date: 06/20/2013
 Time: 13:40:33

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:42
INTERNAL STANDARD	VERIFIED	13:42
EXTERNAL STANDARD	0.197	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.196	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.196	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.196	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.196	13:48
BLANK TEST	0.000	13:49

Average = 0.1966
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dnt: 100413

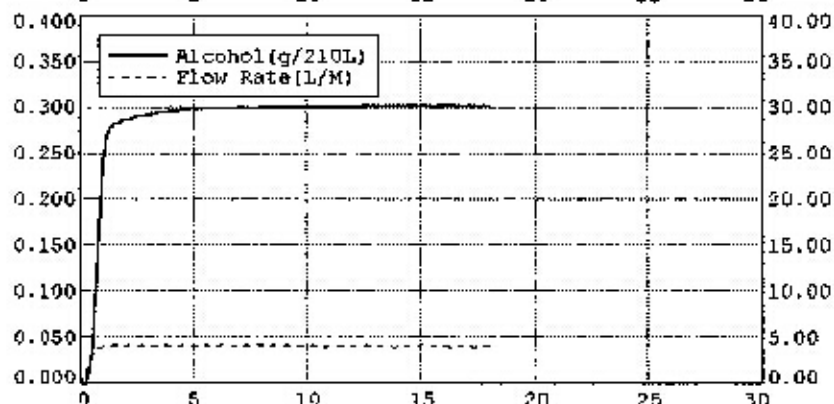
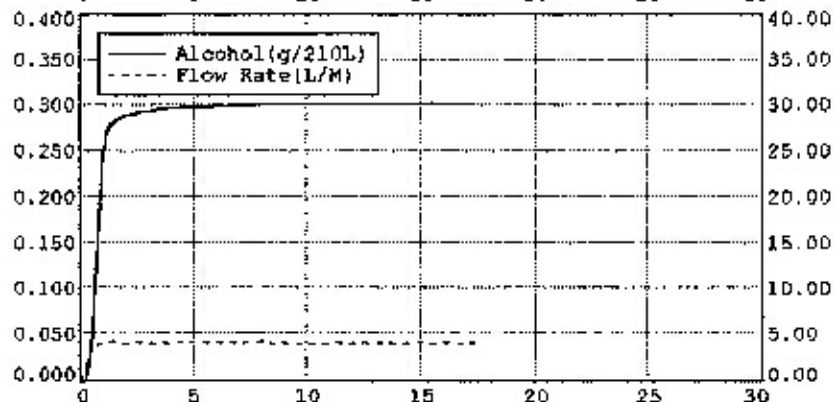
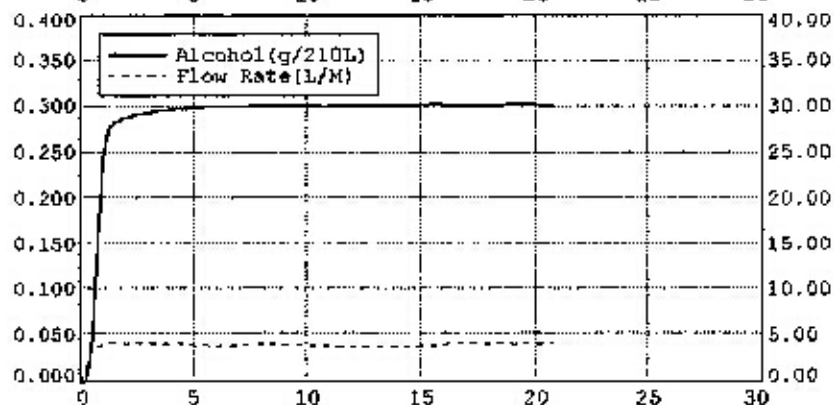
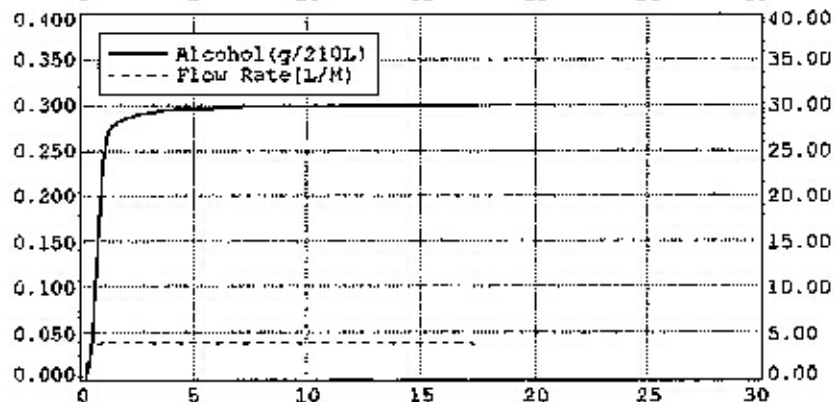
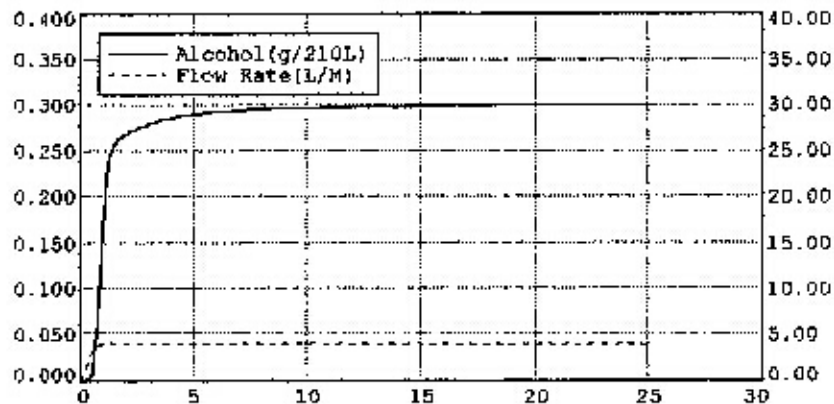
Date: 06/20/2013
 Time: 13:52:22

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:53
INTERNAL STANDARD	VERIFIED	13:53
EXTERNAL STANDARD	0.300	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.300	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.300	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.301	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.301	13:59
BLANK TEST	0.000	14:00

Average = 0.3009
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER date: 100413

Date: 06/20/2013
 Time: 14:17:53

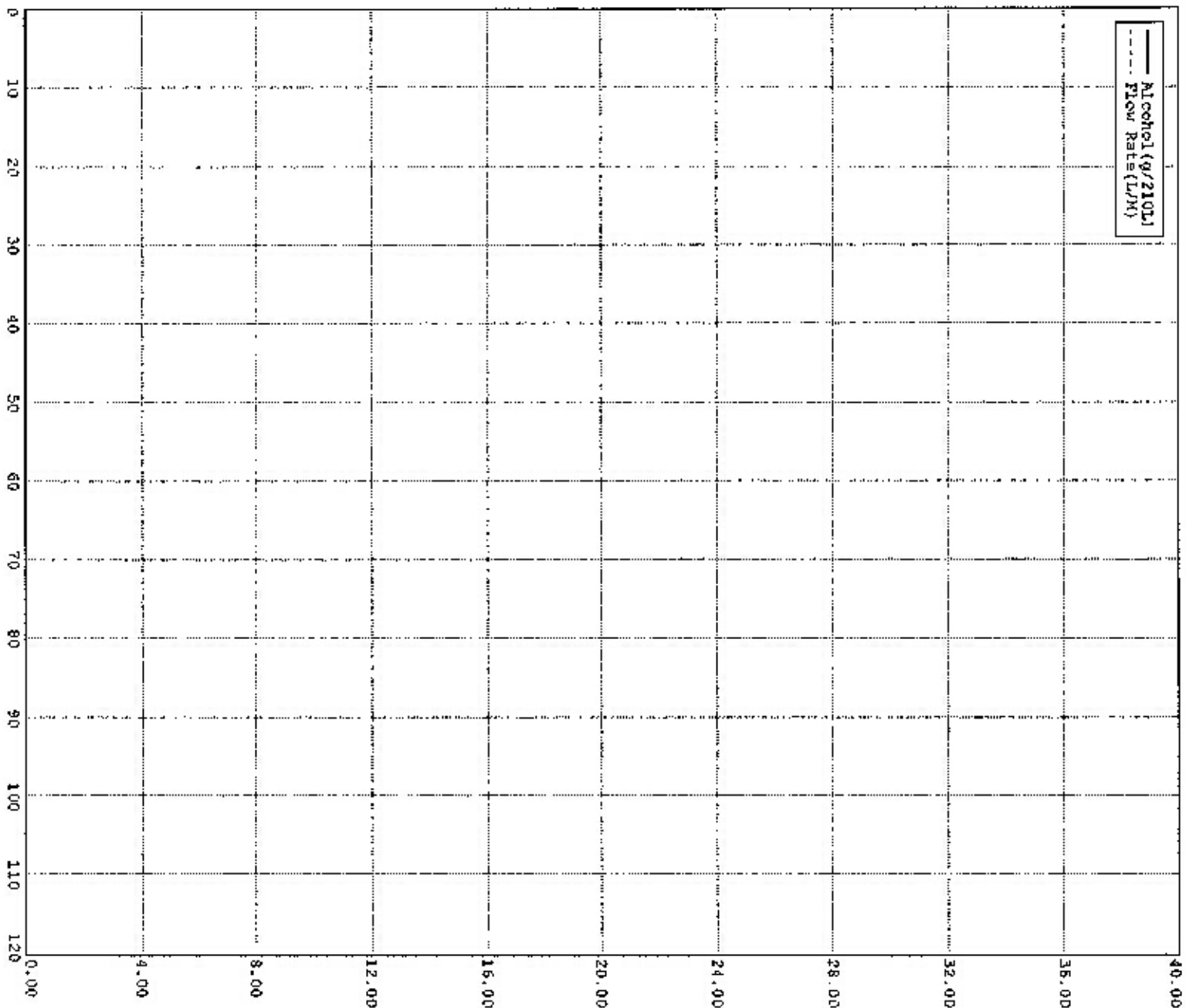
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.48: 0.078
 LOT #: D2012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:18
BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:19
EXTERNAL STANDARD	0.077	14:19
BLANK TEST	0.000	14:20
SUBJECT SAMPLE	INCOMPLETE	14:22



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100413

Date: 06/20/2013
Time: 14:27:23

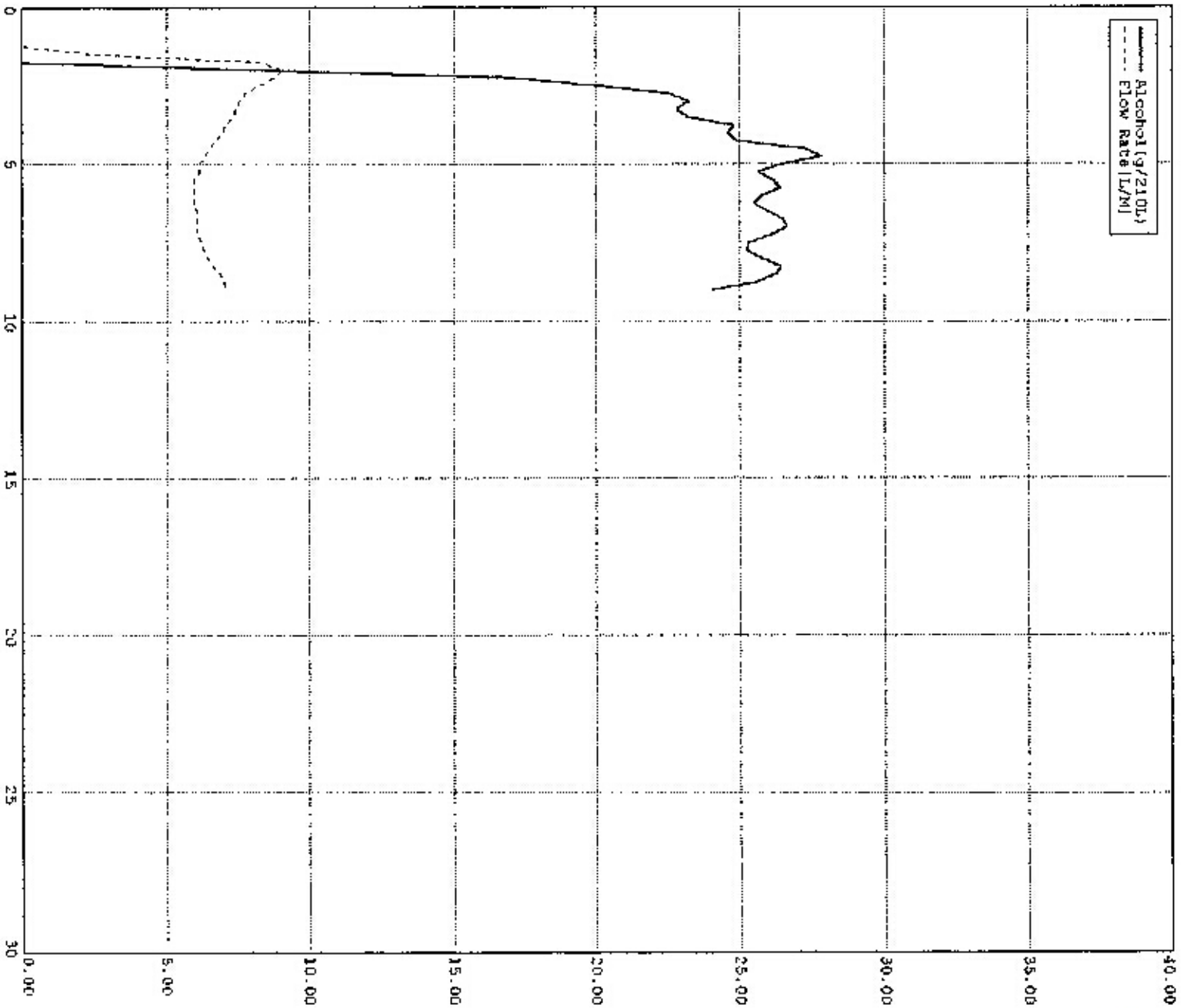
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID MOUTH BLOW
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.49: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:29
BLANK TEST	0.000	14:30
INTERNAL STANDARD	VERIFIED	14:30
EXTERNAL STANDARD	0.077	14:30
BLANK TEST	0.000	14:31
SUBJECT SAMPLE	INVALID	14:31



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100413

Date: 06/20/2013
Time: 14:41:02

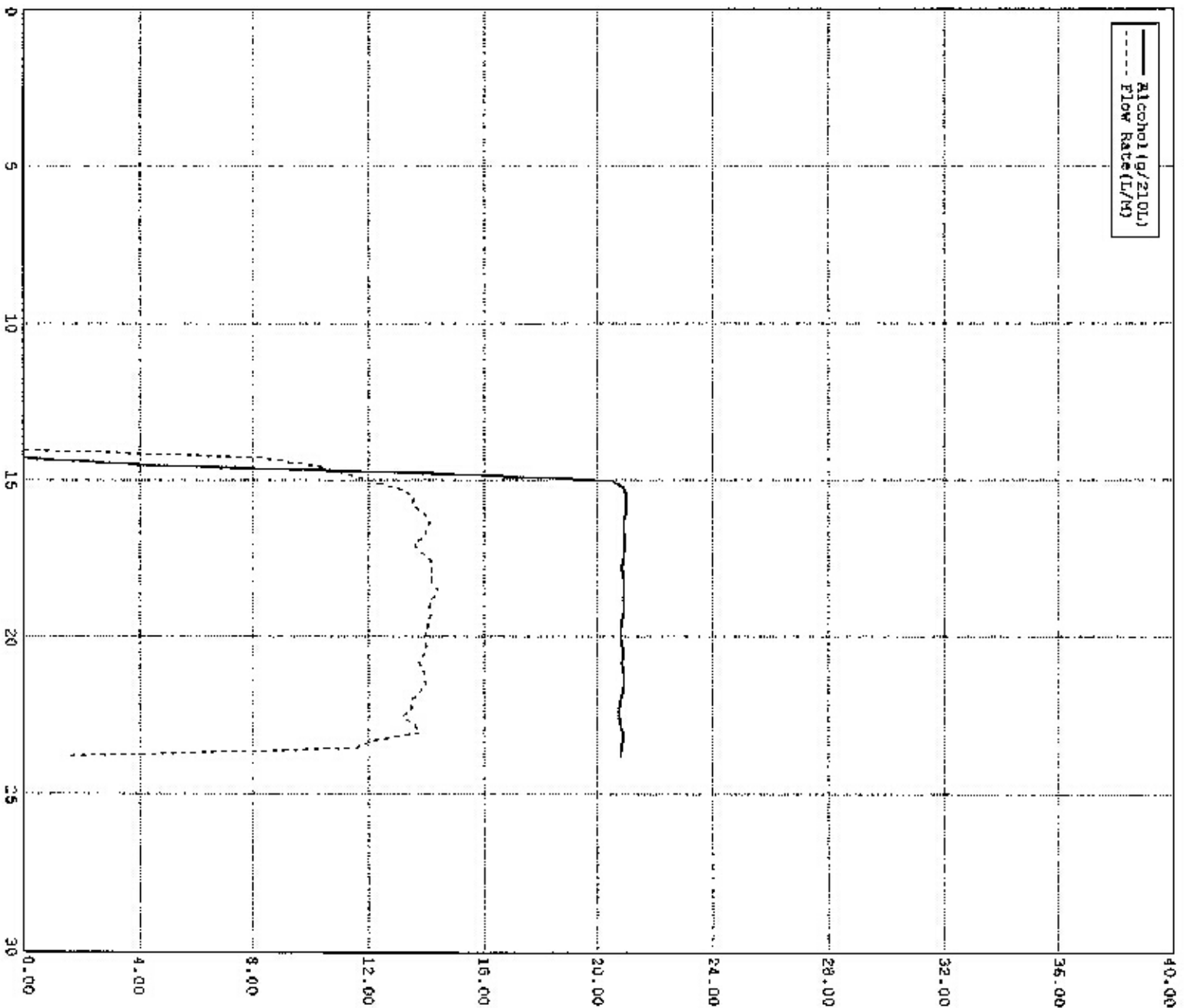
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE ETCH AND ACETONE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOF #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
BLANK TEST PASSED 14:42
INTERNAL STANDARD 0.000 14:42
INTERNAL STANDARD X[2] = 0.091 (0.96%) VERIFIED 14:42
EXTERNAL STANDARD 0.077 14:42
EXTERNAL STANDARD X[1] = 0.0774 (-0.0004) (0.0022)
BLANK TEST 0.000 14:43
SUBJECT SAMPLE INTERFERENCE 14:44
X[1] = 0.1046 (-0.0175) (0.0007)



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE# 100413

Date: 06/20/2013
 Time: 14:45:43

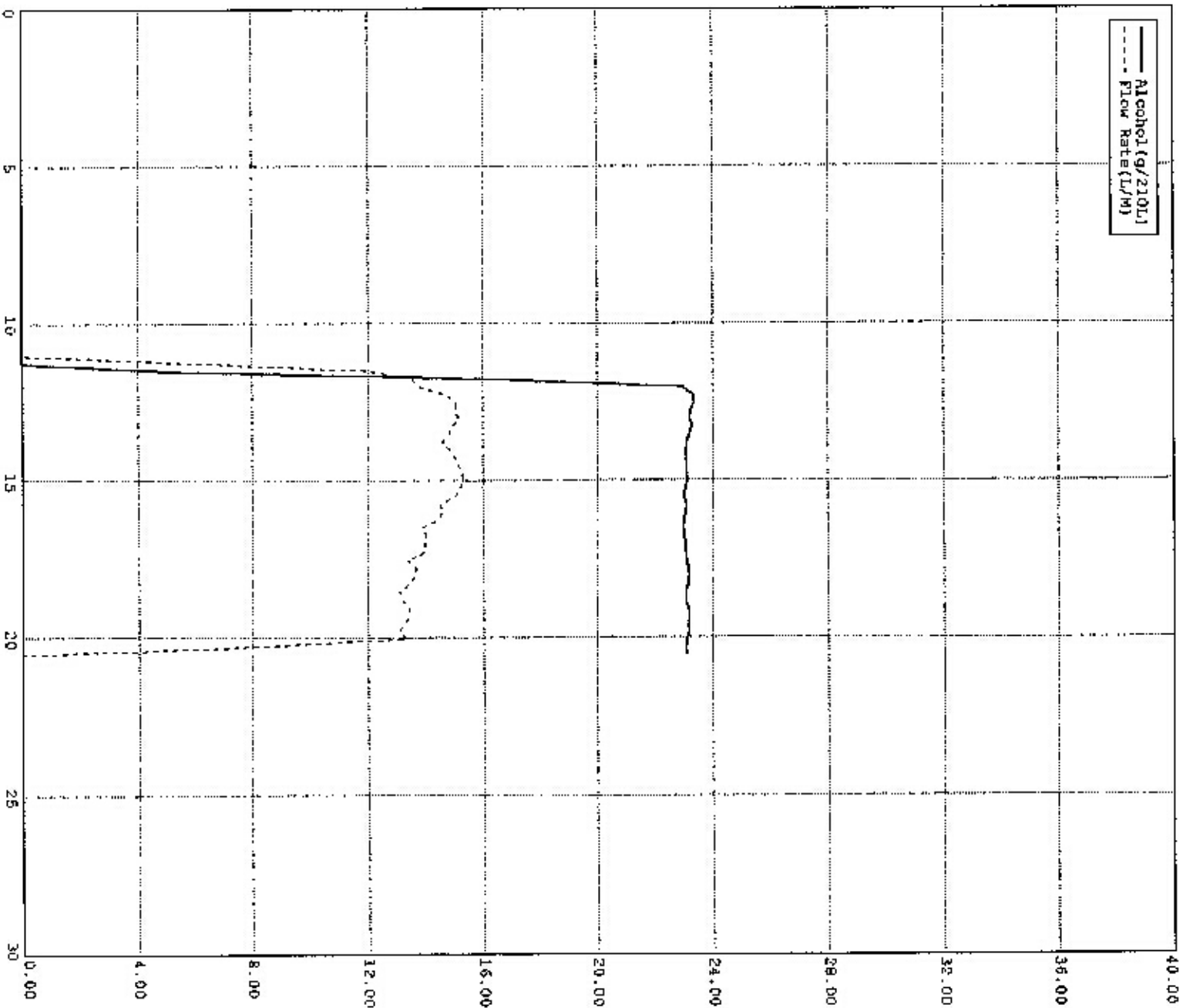
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE FROM AND IPA
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.48: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:46
BLANK TEST	0.000	14:46
INTERNAL STANDARD	VERIFIED	14:47
Xg = 0.092 (1.35%)		
EXTERNAL STANDARD	0.077	14:47
X[1] = 0.079 (0.0005) (0.0021)		
BLANK TEST	0.000	14:48
SUBJECT SAMPLE	INTERFERENCE	14:48
X[1] = 0.1158 (-0.0200) (0.0025)		



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER date: 100413

Date: 06/20/2013
 Time: 14:50:30

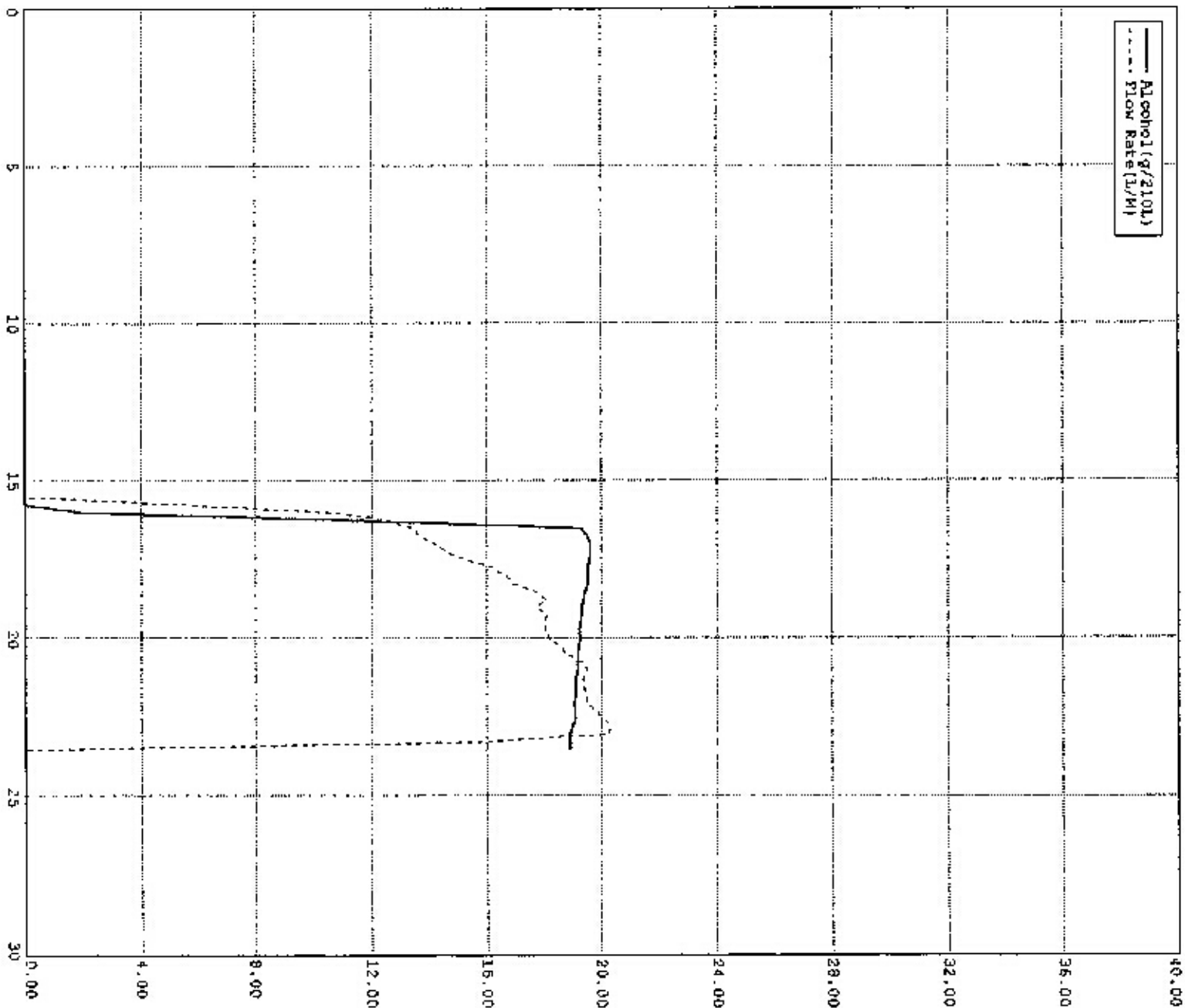
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE FROM ONLY
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.48: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:51
INTERNAL STANDARD	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:51
Xg = 0.092 (1.16%)		
EXTERNAL STANDARD	0.077	14:51
X[1] = 0.0777 (-0.0004) (0.0022)		
BLANK TEST	0.000	14:53
SUBJECT SAMPLE (Vol=2.20L)	0.094	14:53
X[1] = 0.0949 (0.0001) (0.0009)		
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.077	14:54
X[1] = 0.0772 (0.0003) (0.0023)		
BLANK TEST	0.000	14:55



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100413

Date: 06/20/2013
 Time: 15:19:41

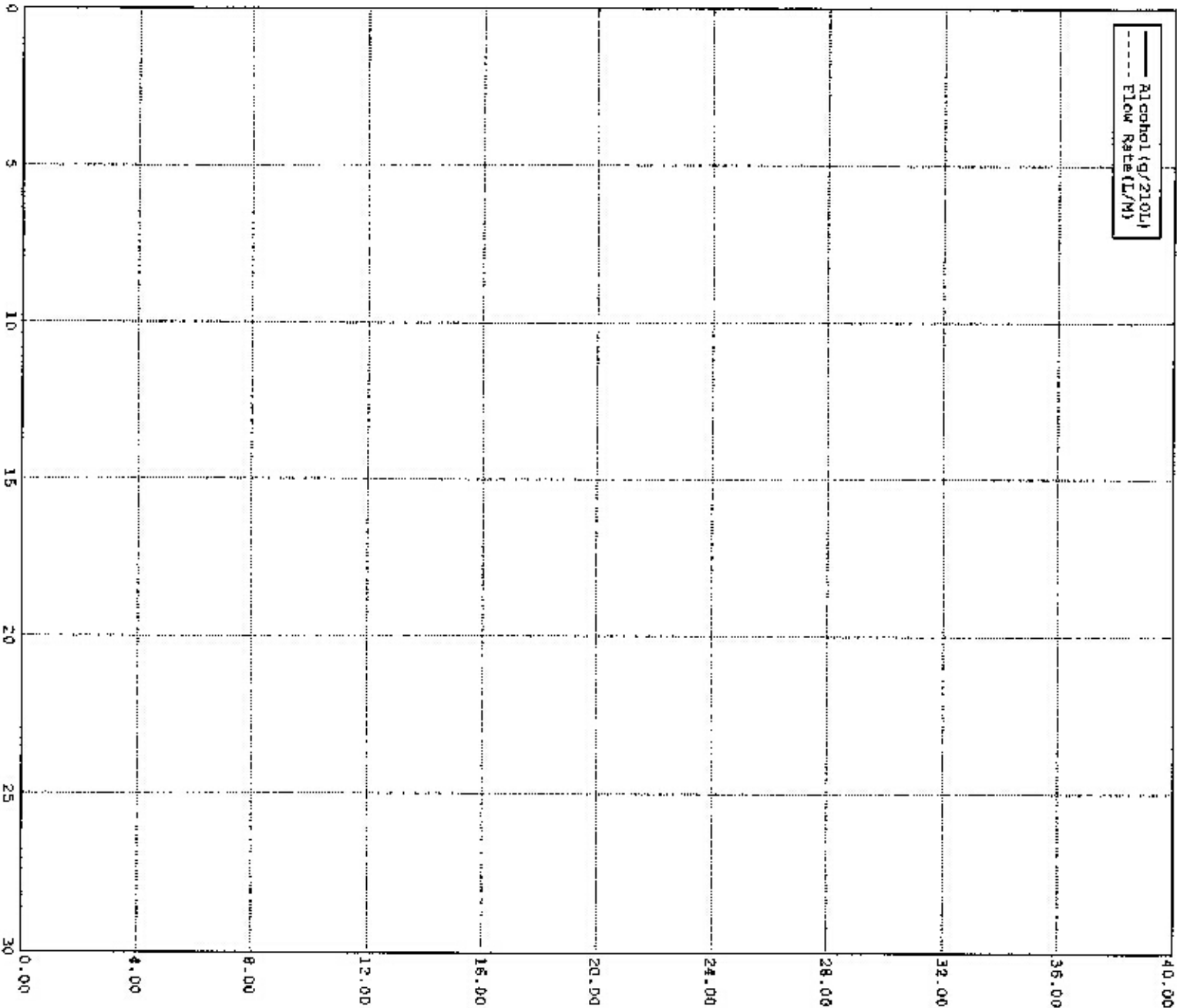
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 RTI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.48: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:21
BLANK TEST	0.000	15:21
INTERNAL STANDARD	VERIFIED	15:21
EXTERNAL STANDARD	0.077	15:21
BLANK TEST	0.000	15:22
REF DETECTED		



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnr: 100413

Date: 06/20/2013
Time: 15:44:01

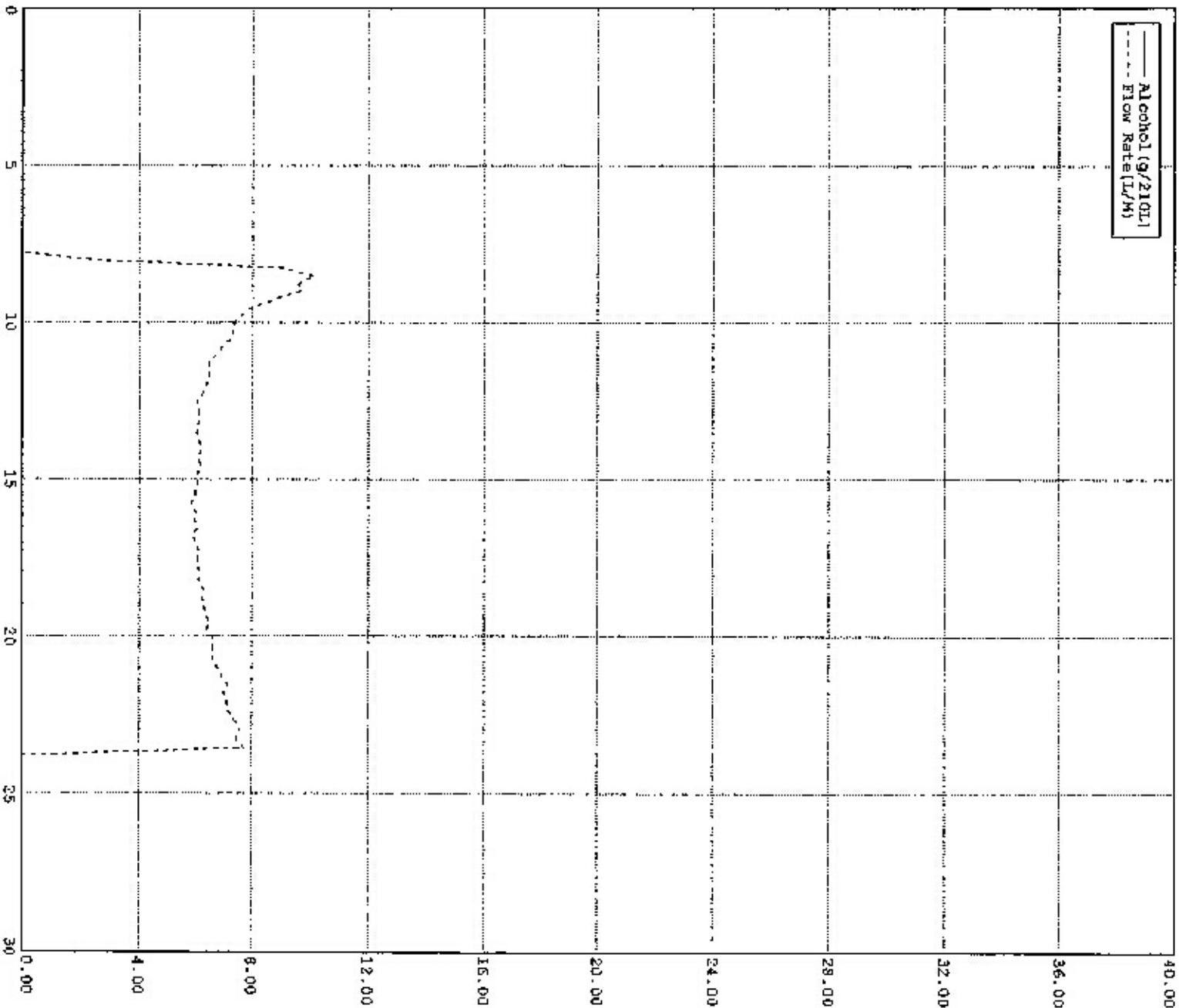
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:45
BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
EXTERNAL STANDARD	0.078	15:45
BLANK TEST	0.000	15:46
SUBJECT SAMPLE	0.000	15:47
BLANK TEST	0.000	15:47
EXTERNAL STANDARD	0.078	15:48
BLANK TEST	0.000	15:49



Final page for report

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2/18/2014