

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100367 Analyst CRF Start Date 1/15/13
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 07611020A5 Exp 3/1/13ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/131. Simulator S/N DR4162 Date Calibrated 10/9/12vi. 0.300g/210L Mnf Guth Lot 12050 Exp 3/21/141. Simulator S/N DR4176 Date Calibrated 2/21/12

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11100 Level 0.10 Exp 7/6/131. Simulator S/N DR5298 Date Calibrated 10/8/12ii. Isopropanol - Mnf Guth Lot 11250 Level 0.10 Exp 12/6/131. Simulator S/N SD1202 Date Calibrated 10/9/12iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N SD1176 Date Calibrated 10/9/12d. 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 1/17/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 01/15/2013
Time: 09:29:14

VERSIONS
DMT: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

| | |
|-------------------------|--------|
| Sample Chamber = 49.0°C | PASSED |
| Breath Tube = 45.5°C | PASSED |

PUMP INFO

| | |
|-----------------------|--------|
| Flow Rate = 4.749 L/M | PASSED |
|-----------------------|--------|

DETECTOR INFO

| | |
|----------|--------|
| PUMP ON | PASSED |
| PUMP OFF | PASSED |

FILTER INFO

| | |
|----------|--------|
| Filter 1 | PASSED |
| Filter 2 | PASSED |
| Filter 3 | PASSED |

INTERNAL STANDARD

| | |
|-------------------|--------|
| INTERNAL STANDARD | PASSED |
|-------------------|--------|

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WF

Technician Screen

DATAMASTER dmt: 100367

Date: 01/15/2013

Time: 9:48 AM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 45.7°C

Current Barometer 29.8 in

Volume (Ltr) 1.53

Settings

Lamp: 1.52 V

Bias: 79 V

Cooler: 1.80 V

Chopper: 535 Hz

Voltages (V)

Flow: 1.03 V

Detector: 0.007 V

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WF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 06/06/2012
Time: 07:17:04

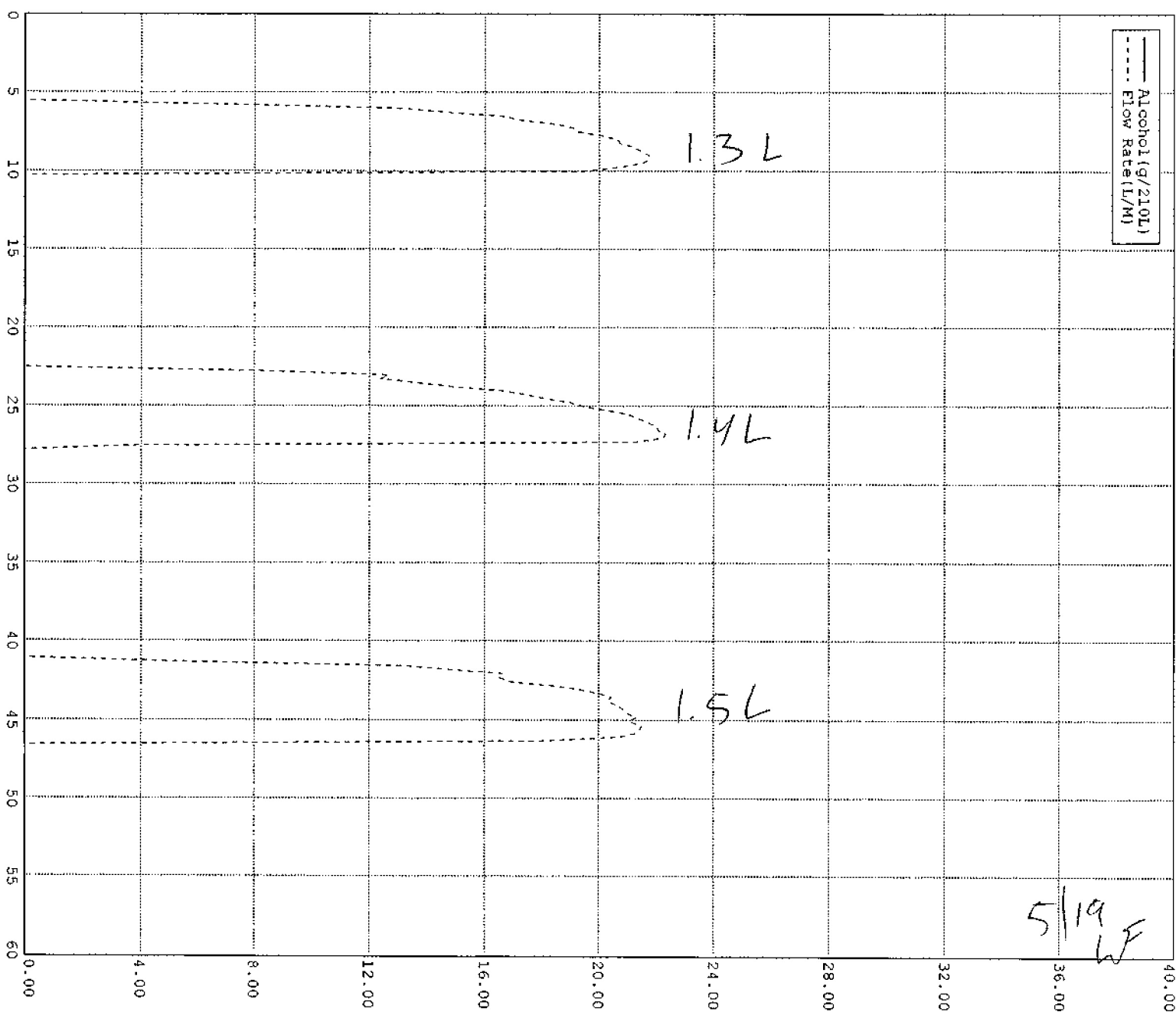
Ca = 0.1000
CAL = 0.987175 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0007 0.0000 <= b3 < 0.0040
Xq = 0.0776 0.0500 <= Xq < 0.2000
a21 = 1.178444 1.050 <= a21 < 1.300
a31 = 0.403915 0.300 <= a31 < 0.800

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WF

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100367Date: 01/15/2013
Time: 13:08:25SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.86: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| DIAGNOSTIC CHECK | PASSED | 13:09 |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 13:09 |
| INTERNAL STANDARD | VERIFIED | 13:09 |
| EXTERNAL STANDARD | 0.081 | 13:10 |
| BLANK TEST | 0.000 | 13:11 |
| SUBJECT SAMPLE | 0.000 | 13:11 |
| BLANK TEST | 0.000 | 13:12 |
| EXTERNAL STANDARD | 0.081 | 13:13 |
| BLANK TEST | 0.000 | 13:13 |

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LF

LINEARITY CHECK

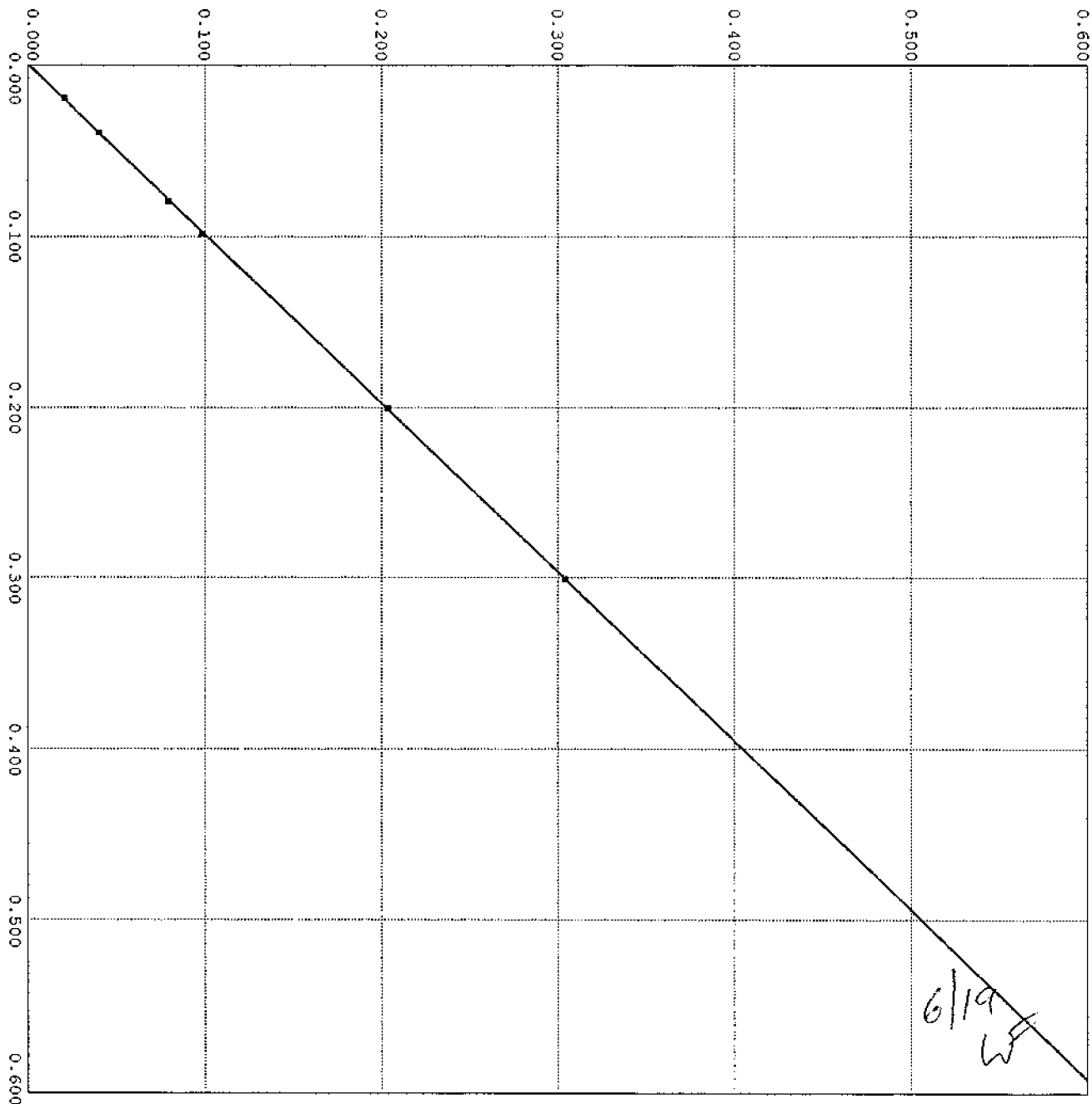
Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 01/16/2013
Time: 12:49:22

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.019 | 0.0212 | 0.0002 |
| 0.039 | 0.0408 | 0.0003 |
| 0.079 | 0.0804 | 0.0002 |
| 0.098 | 0.0995 | 0.0002 |
| 0.200 | 0.2043 | 0.0002 |
| 0.300 | 0.3048 | 0.0004 |

SLOPE = 1.012288
 R^2 = 0.999957



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100367

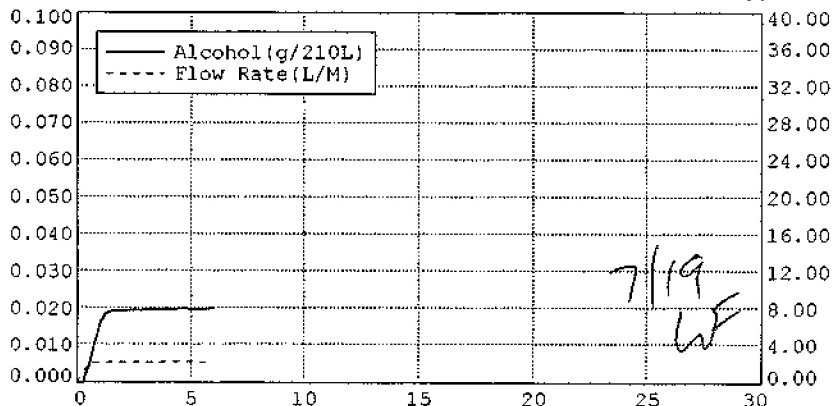
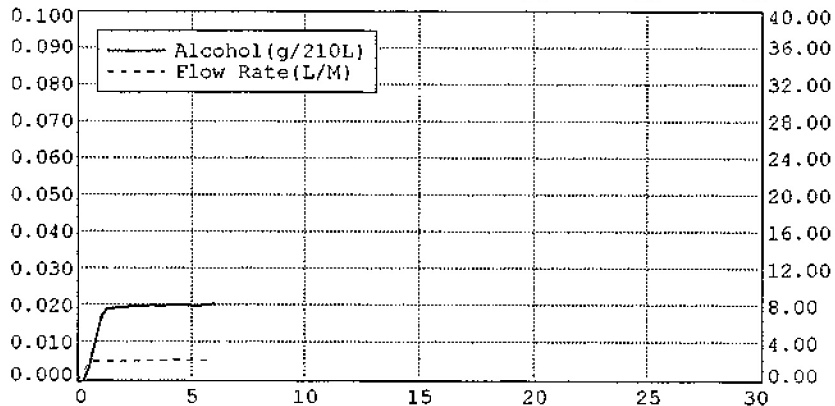
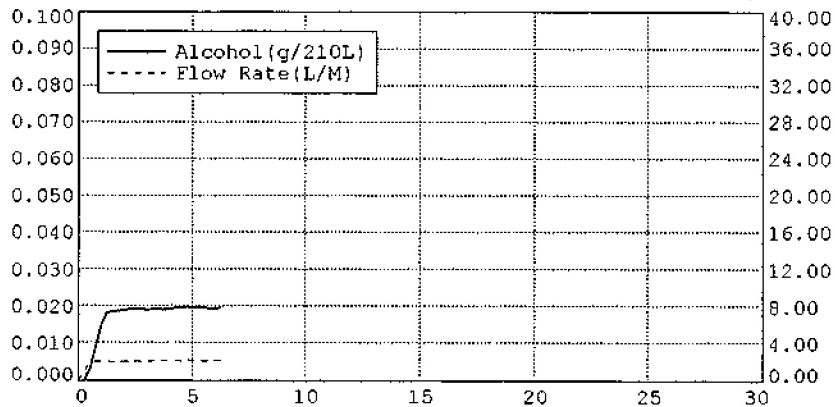
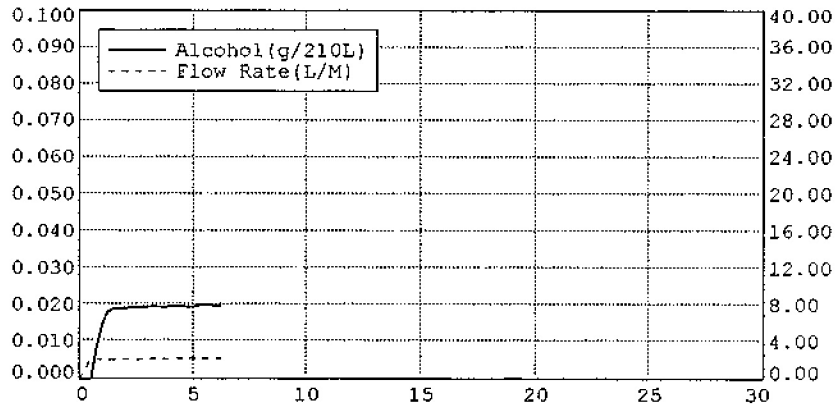
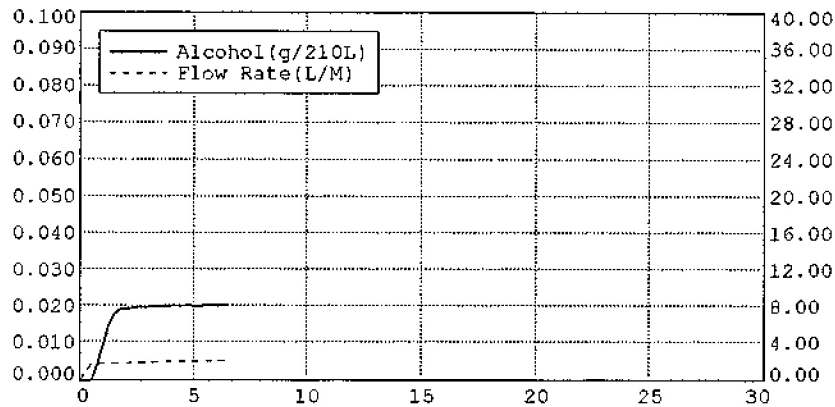
Date: 01/16/2013
Time: 12:49:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.58: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:50 |
| INTERNAL STANDARD | VERIFIED | 12:51 |
| EXTERNAL STANDARD | 0.021 | 12:51 |
| BLANK TEST | 0.000 | 12:52 |
| EXTERNAL STANDARD | 0.020 | 12:52 |
| BLANK TEST | 0.000 | 12:53 |
| EXTERNAL STANDARD | 0.021 | 12:53 |
| BLANK TEST | 0.000 | 12:54 |
| EXTERNAL STANDARD | 0.021 | 12:54 |
| BLANK TEST | 0.000 | 12:55 |
| EXTERNAL STANDARD | 0.021 | 12:55 |
| BLANK TEST | 0.000 | 12:56 |

Average = 0.0212
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100367

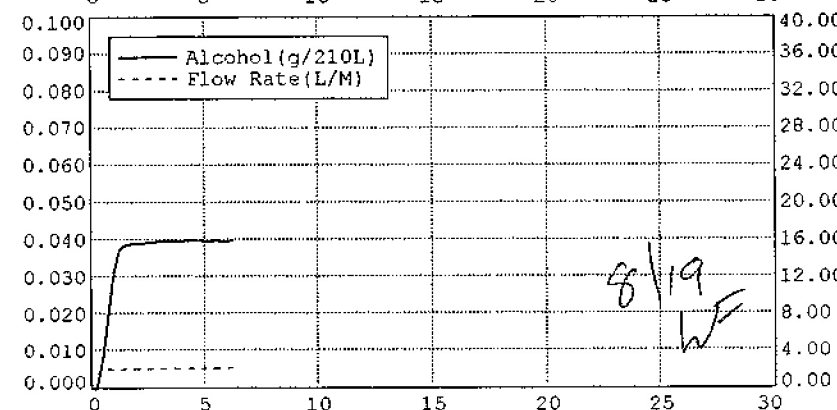
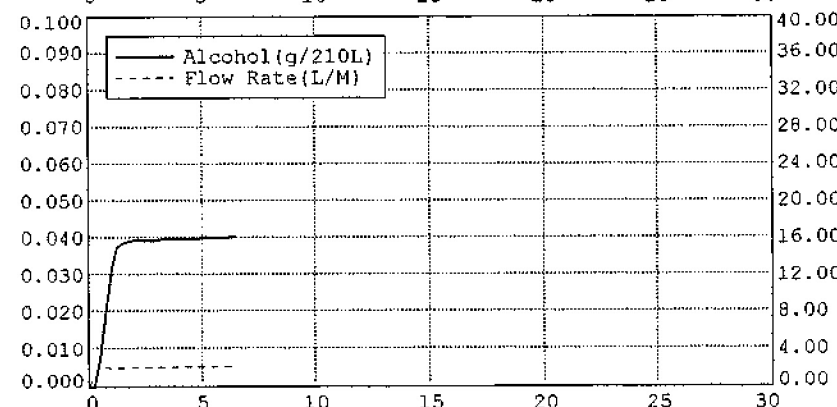
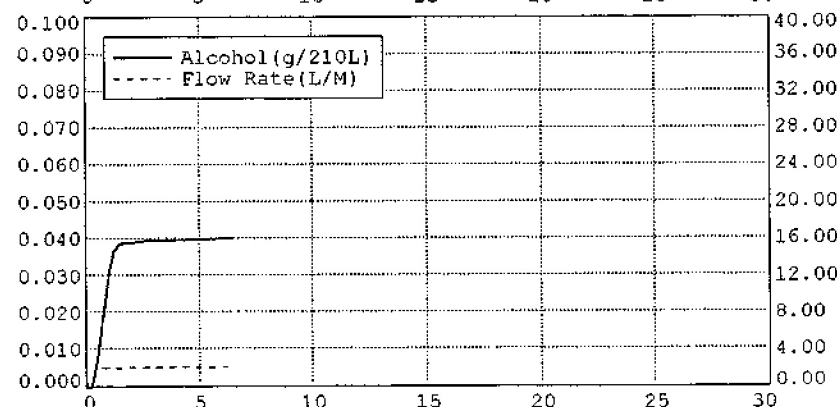
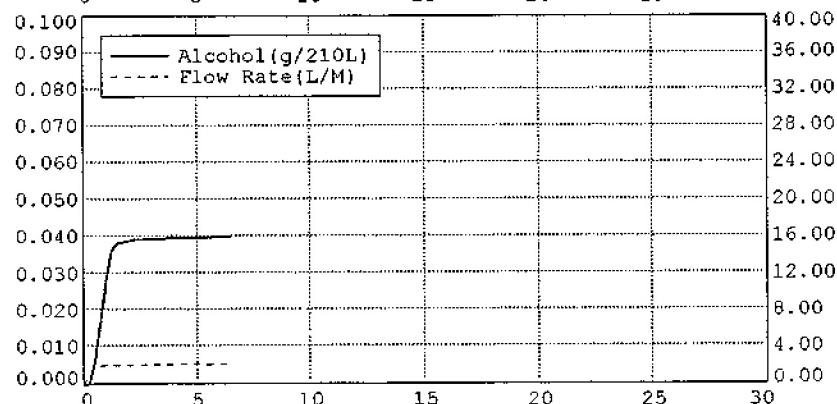
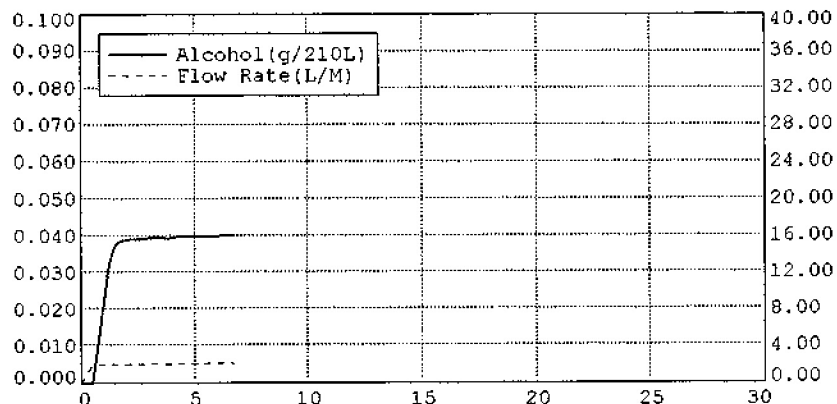
Date: 01/16/2013
Time: 12:58:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.59: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:59 |
| INTERNAL STANDARD | VERIFIED | 12:59 |
| EXTERNAL STANDARD | 0.040 | 13:00 |
| BLANK TEST | 0.000 | 13:00 |
| EXTERNAL STANDARD | 0.040 | 13:01 |
| BLANK TEST | 0.000 | 13:02 |
| EXTERNAL STANDARD | 0.040 | 13:02 |
| BLANK TEST | 0.000 | 13:03 |
| EXTERNAL STANDARD | 0.041 | 13:03 |
| BLANK TEST | 0.000 | 13:04 |
| EXTERNAL STANDARD | 0.040 | 13:04 |
| BLANK TEST | 0.000 | 13:05 |

Average = 0.0408
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100367

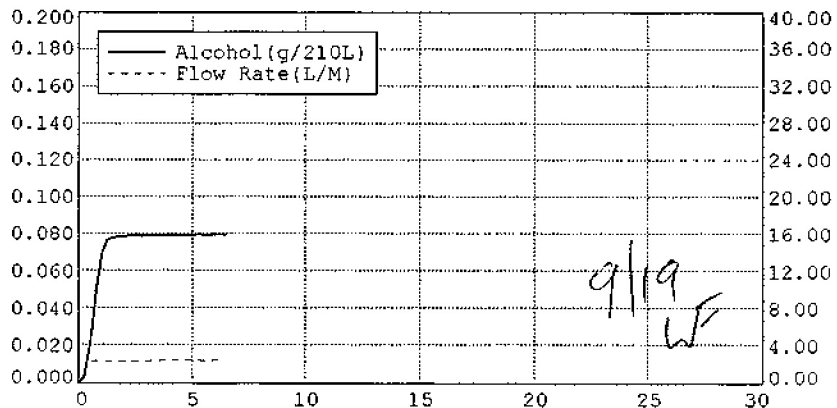
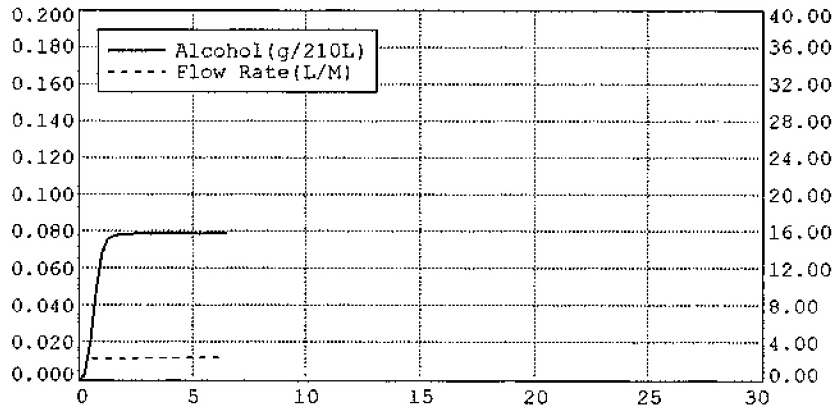
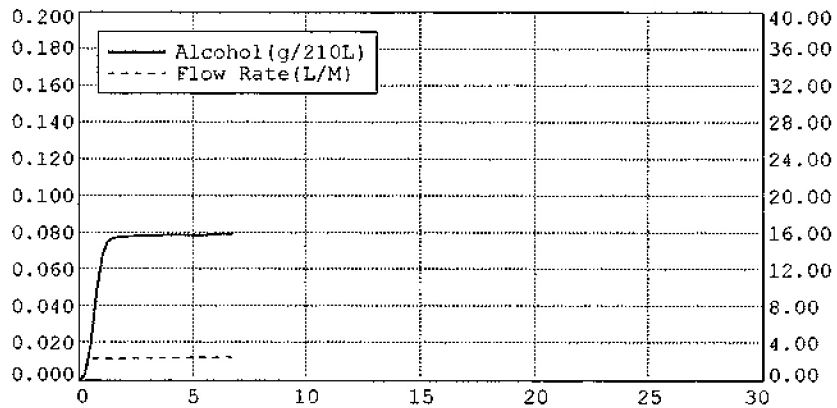
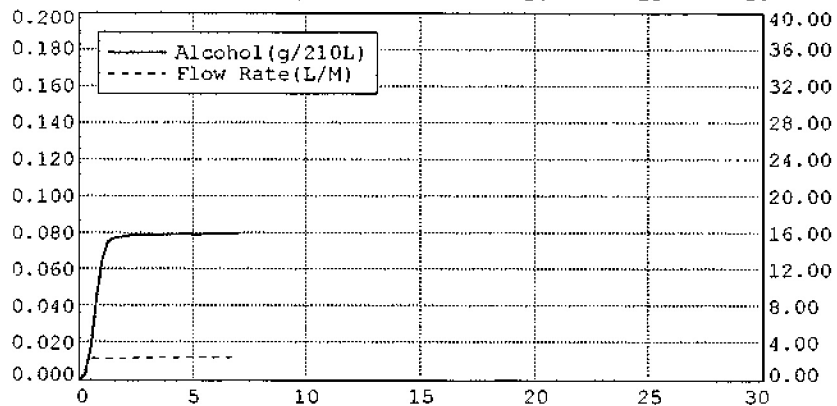
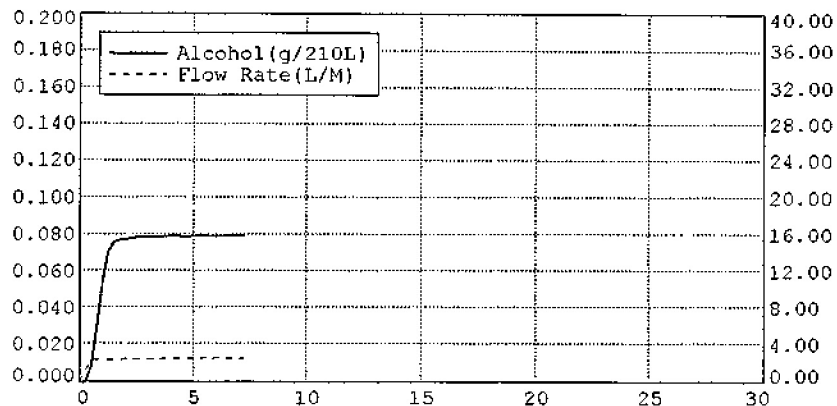
Date: 01/16/2013
Time: 13:07:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.57: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 13:08 |
| INTERNAL STANDARD | VERIFIED | 13:08 |
| EXTERNAL STANDARD | 0.080 | 13:09 |
| BLANK TEST | 0.000 | 13:10 |
| EXTERNAL STANDARD | 0.080 | 13:10 |
| BLANK TEST | 0.000 | 13:11 |
| EXTERNAL STANDARD | 0.080 | 13:11 |
| BLANK TEST | 0.000 | 13:12 |
| EXTERNAL STANDARD | 0.080 | 13:12 |
| BLANK TEST | 0.000 | 13:13 |
| EXTERNAL STANDARD | 0.080 | 13:13 |
| BLANK TEST | 0.000 | 13:14 |

Average = 0.0804
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100367

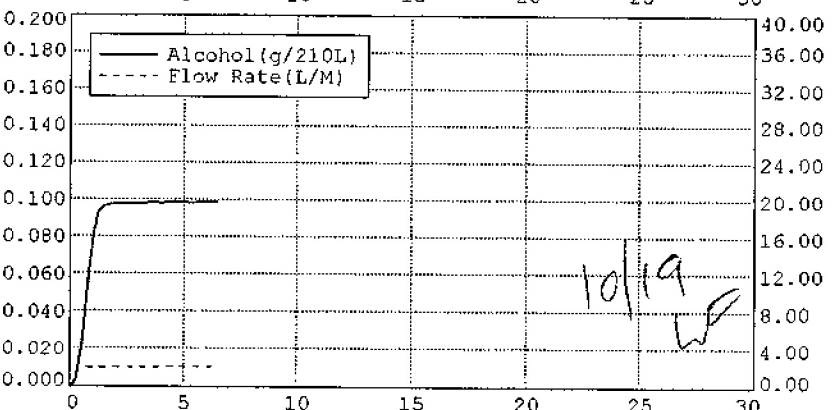
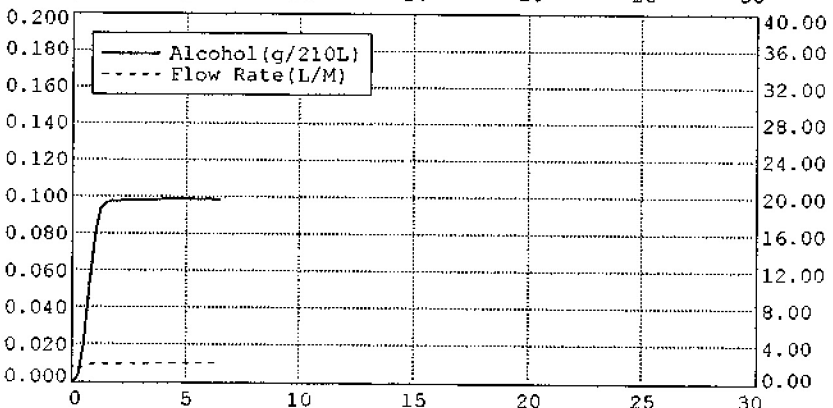
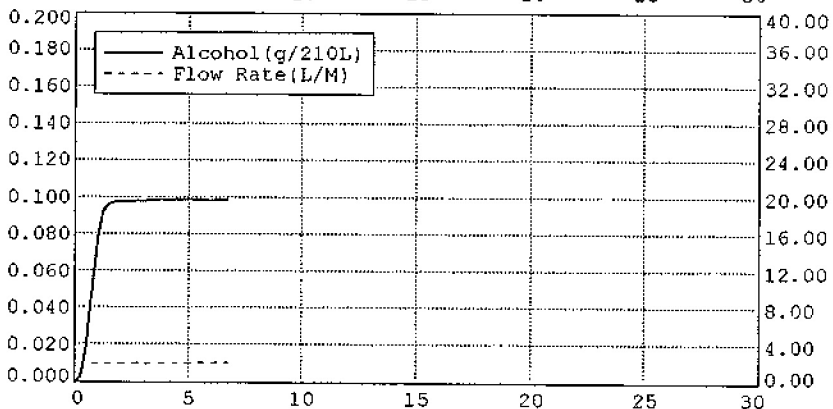
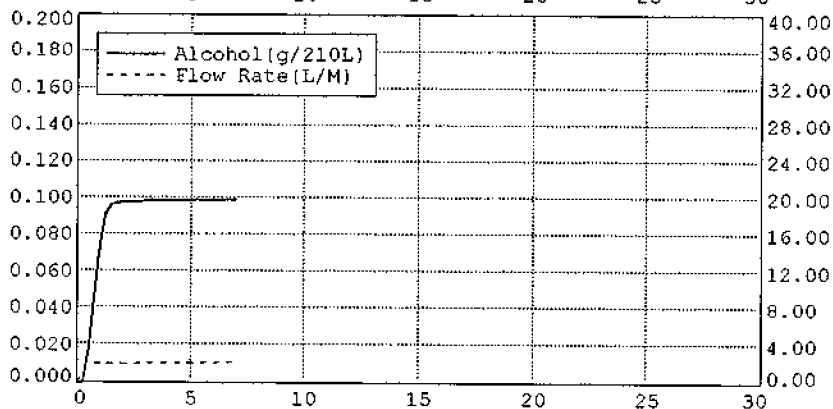
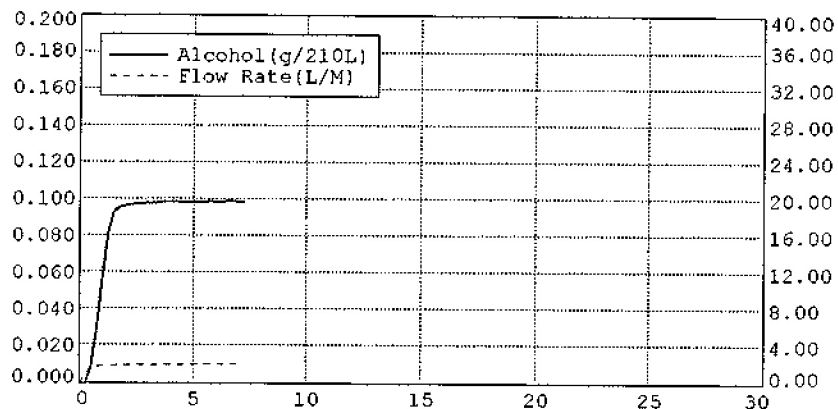
Date: 01/16/2013
Time: 13:21:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.57: 0.098
LOT #: 07611100A3
EXPIRATION: 03/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 13:23 |
| INTERNAL STANDARD | VERIFIED | 13:23 |
| EXTERNAL STANDARD | 0.099 | 13:23 |
| BLANK TEST | 0.000 | 13:24 |
| EXTERNAL STANDARD | 0.099 | 13:24 |
| BLANK TEST | 0.000 | 13:25 |
| EXTERNAL STANDARD | 0.099 | 13:26 |
| BLANK TEST | 0.000 | 13:26 |
| EXTERNAL STANDARD | 0.099 | 13:27 |
| BLANK TEST | 0.000 | 13:28 |
| EXTERNAL STANDARD | 0.099 | 13:28 |
| BLANK TEST | 0.000 | 13:29 |

Average = 0.0995
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100367

Date: 01/16/2013
Time: 13:30:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200

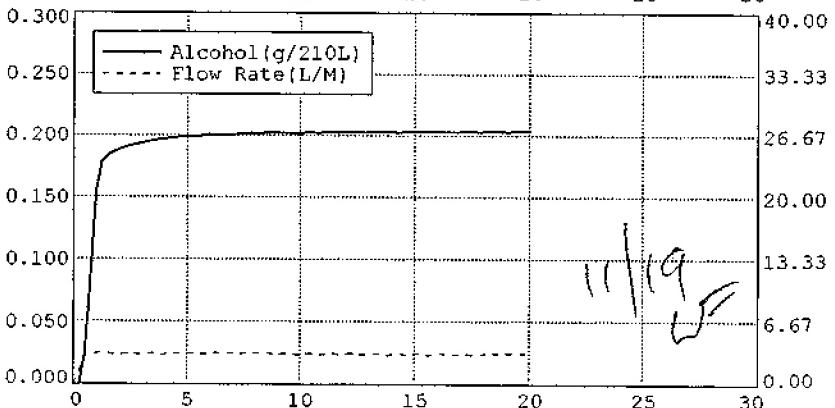
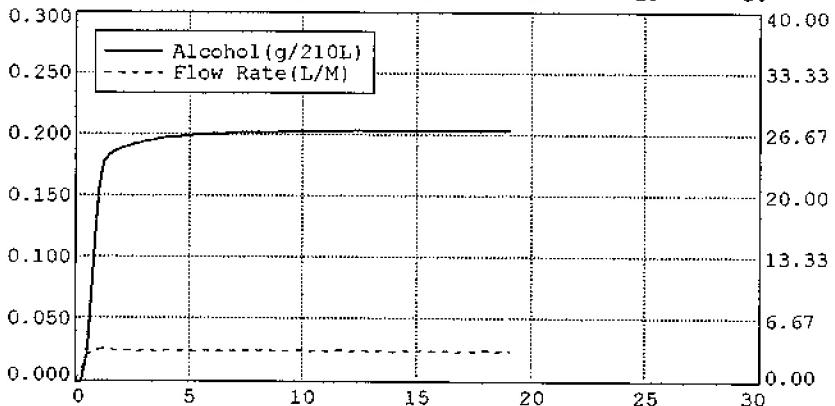
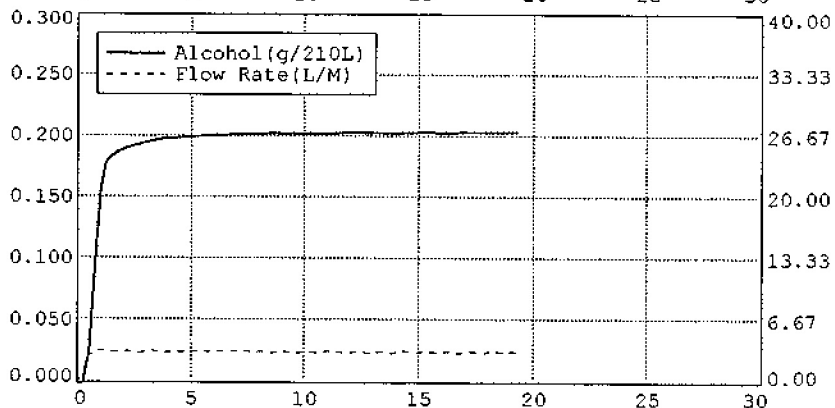
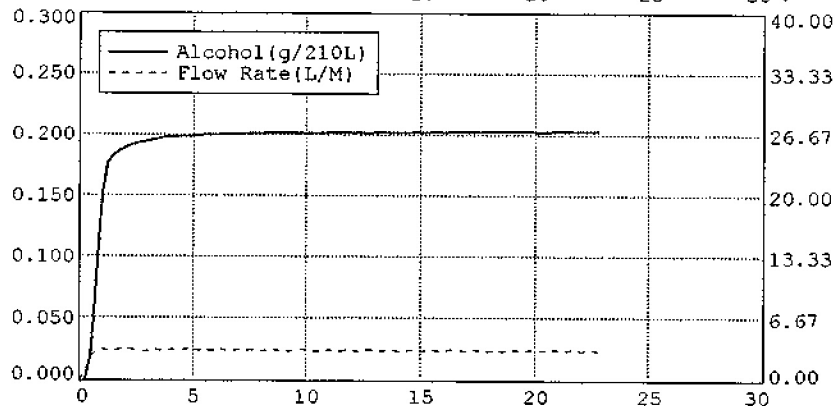
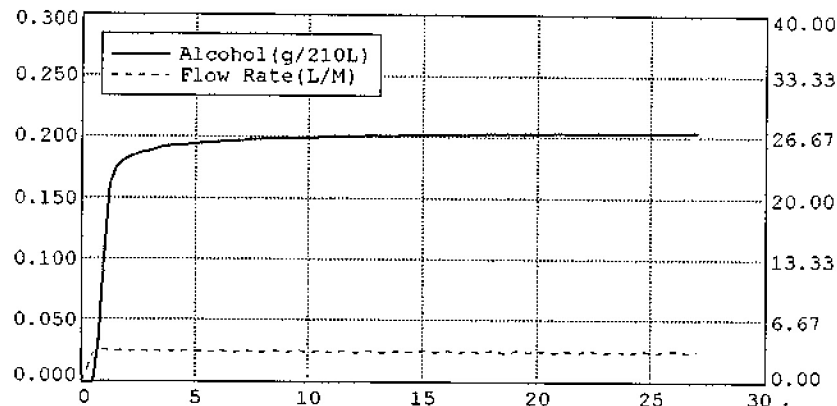
LOT #: 11120

EXPIRATION: 07/19/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 13:31 |
| INTERNAL STANDARD | VERIFIED | 13:32 |
| EXTERNAL STANDARD | 0.204 | 13:32 |
| BLANK TEST | 0.000 | 13:33 |
| EXTERNAL STANDARD | 0.204 | 13:34 |
| BLANK TEST | 0.000 | 13:34 |
| EXTERNAL STANDARD | 0.204 | 13:35 |
| BLANK TEST | 0.000 | 13:36 |
| EXTERNAL STANDARD | 0.204 | 13:36 |
| BLANK TEST | 0.000 | 13:37 |
| EXTERNAL STANDARD | 0.204 | 13:38 |
| BLANK TEST | 0.000 | 13:39 |

Average = 0.2043

Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100367

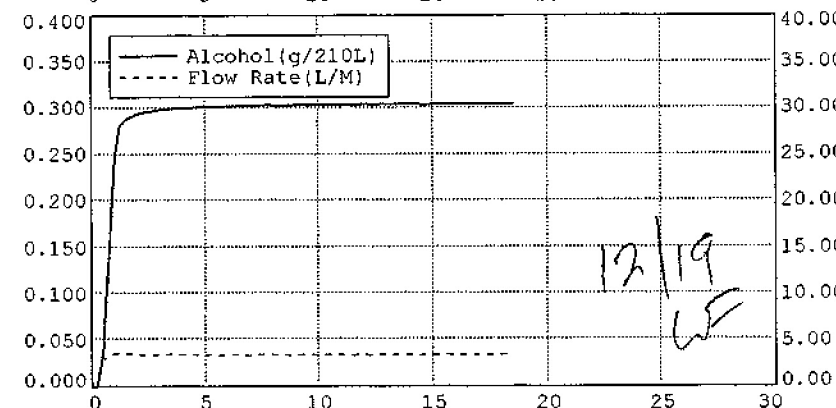
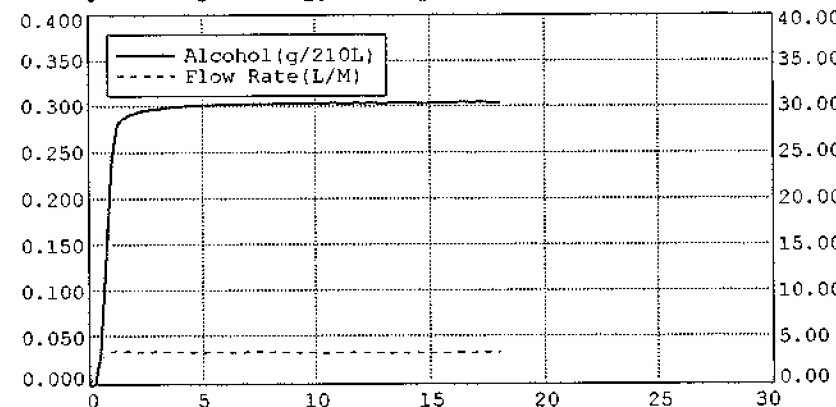
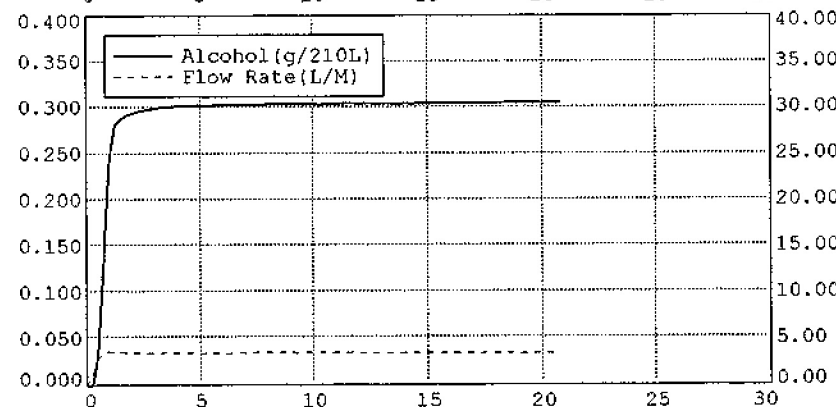
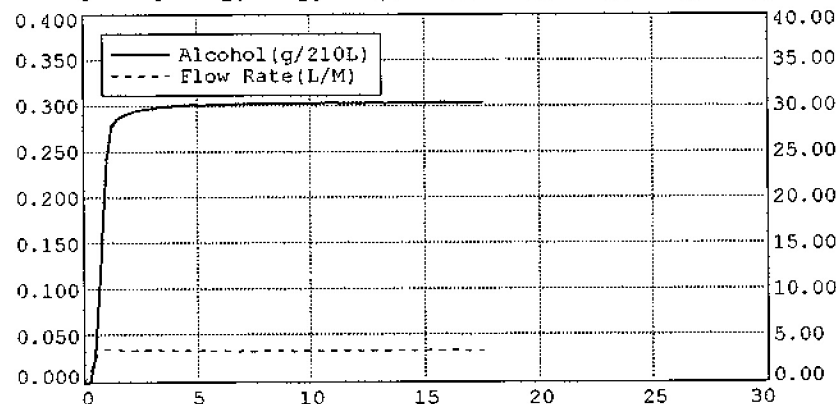
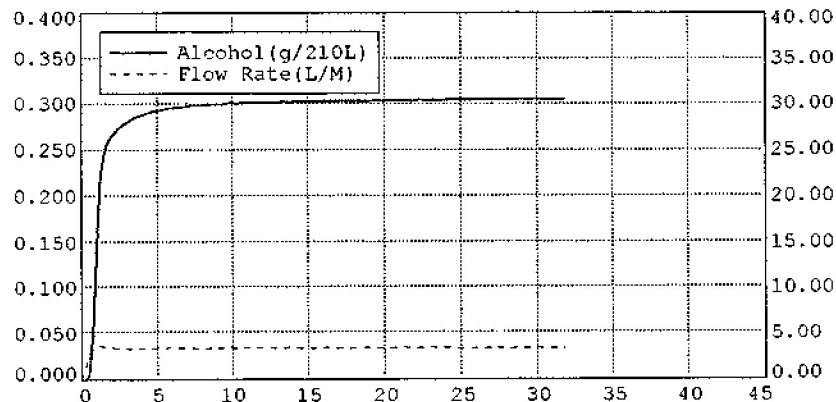
Date: 01/16/2013
Time: 13:41:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 12050
EXPIRATION: 03/21/2014

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 13:42 |
| INTERNAL STANDARD | VERIFIED | 13:42 |
| EXTERNAL STANDARD | 0.305 | 13:43 |
| BLANK TEST | 0.000 | 13:44 |
| EXTERNAL STANDARD | 0.304 | 13:44 |
| BLANK TEST | 0.000 | 13:45 |
| EXTERNAL STANDARD | 0.304 | 13:46 |
| BLANK TEST | 0.000 | 13:46 |
| EXTERNAL STANDARD | 0.304 | 13:47 |
| BLANK TEST | 0.000 | 13:48 |
| EXTERNAL STANDARD | 0.304 | 13:48 |
| BLANK TEST | 0.000 | 13:49 |

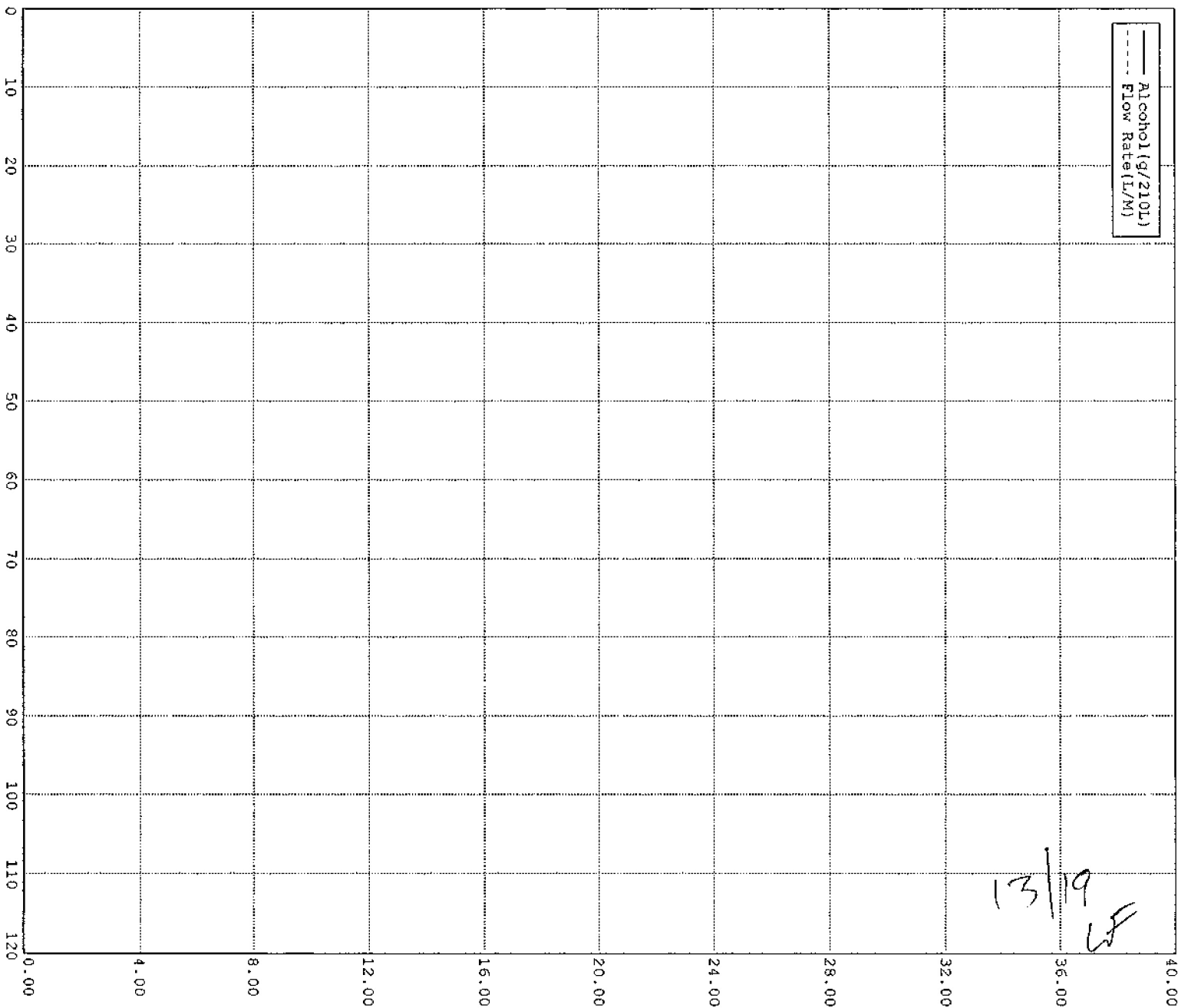
Average = 0.3048
Std Dev = 0.0004



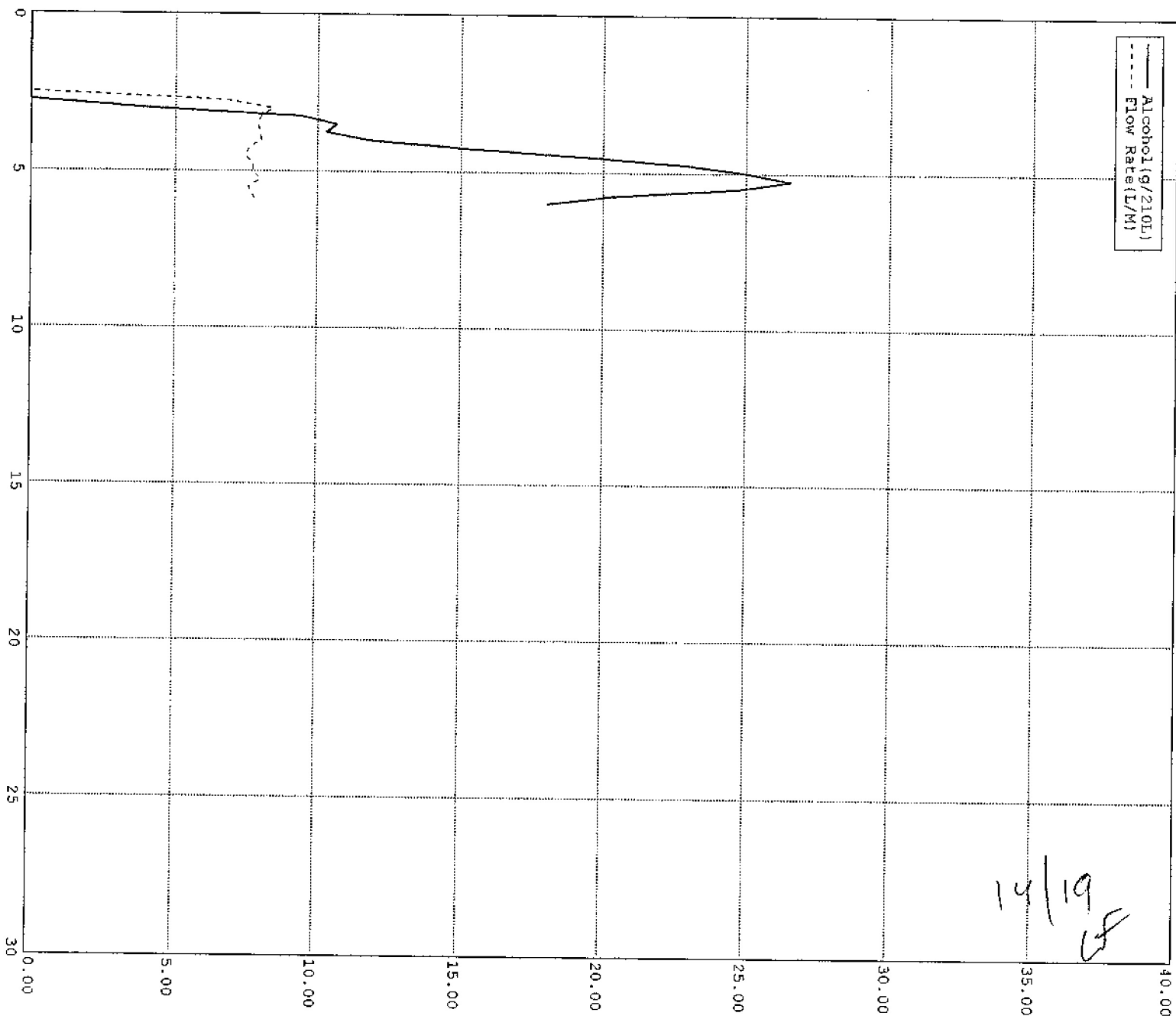
SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367Date: 01/16/2013
Time: 14:03:33SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.56: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| DIAGNOSTIC CHECK | PASSED | 14:04 |
|-------------------|------------|-------|
| BLANK TEST | 0.000 | 14:04 |
| INTERNAL STANDARD | VERIFIED | 14:04 |
| EXTERNAL STANDARD | 0.079 | 14:05 |
| BLANK TEST | 0.000 | 14:06 |
| SUBJECT SAMPLE | INCOMPLETE | 14:08 |



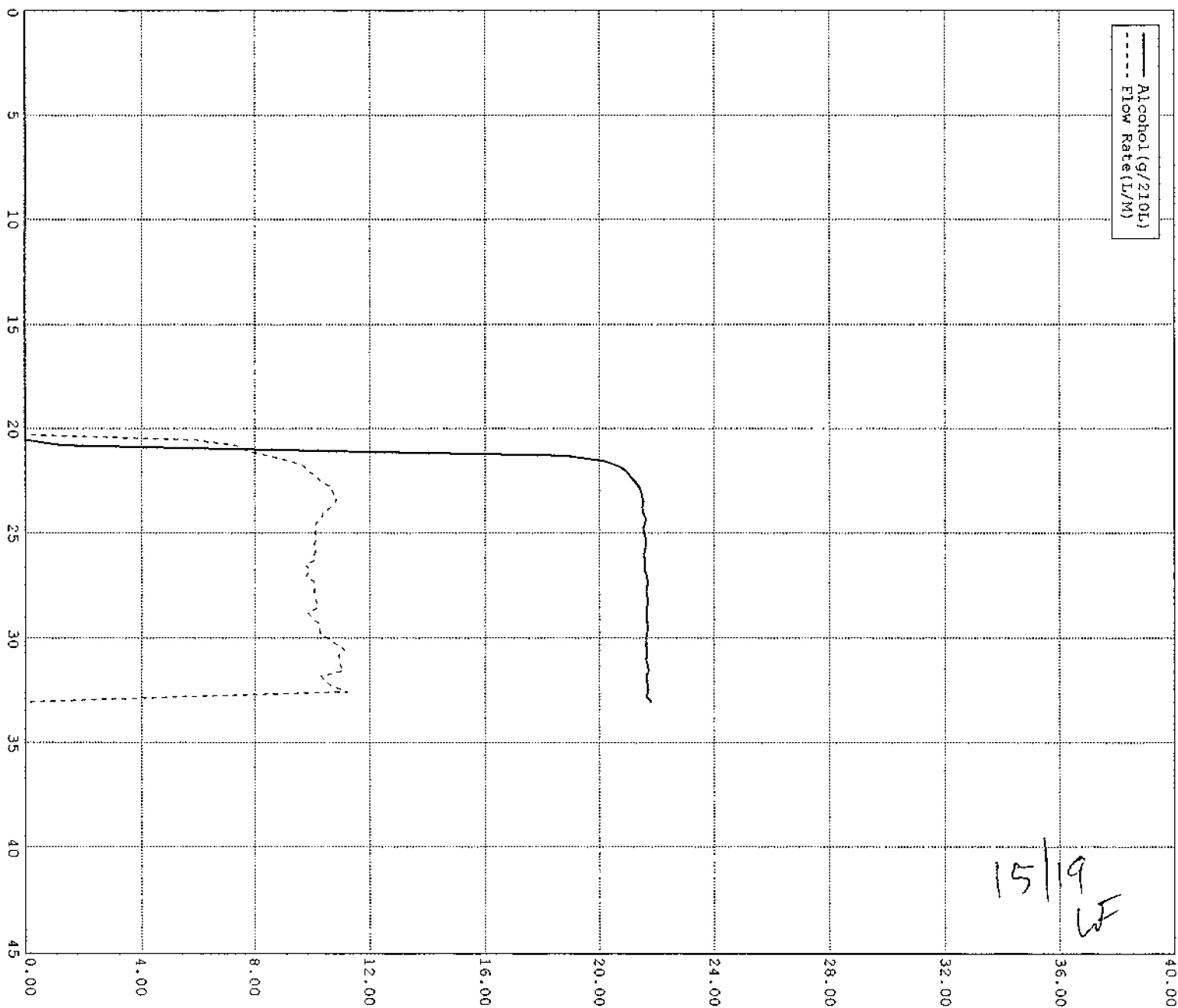
SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367Date: 01/16/2013
Time: 14:13:31SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INVALID MOUTH ETOH
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.56: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014DIAGNOSTIC CHECK
BLANK TEST PASSED 14:17
INTERNAL STANDARD VERIFIED 14:17
EXTERNAL STANDARD 0.080 14:18
BLANK TEST 0.000 14:18
SUBJECT SAMPLE INVALID 14:19

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100367Date: 01/16/2013
Time: 15:09:34SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE ETOH AND ACETONE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.53: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

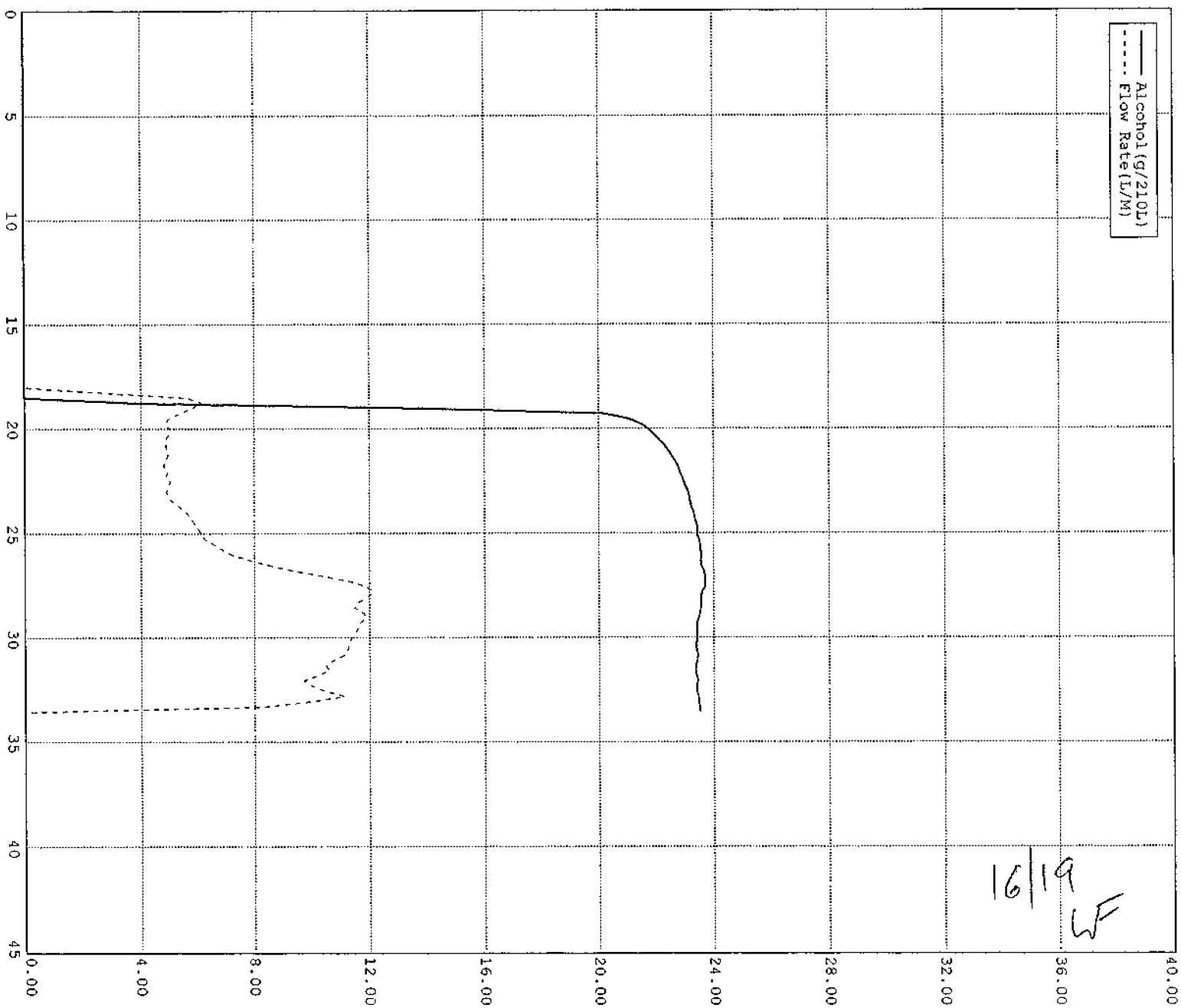
| DIAGNOSTIC CHECK | PASSED | 15:10 |
|-------------------------|--------------|-------|
| BLANK TEST | 0.000 | 15:10 |
| INTERNAL STANDARD | VERIFIED | 15:10 |
| Xq = 0.080 (2.80%) | | |
| EXTERNAL STANDARD | 0.080 | 15:11 |
| X[1] = 0.0800 (-0.0007) | (0.0029) | |
| BLANK TEST | 0.000 | 15:12 |
| SUBJECT SAMPLE | INTERFERENCE | 15:12 |
| X[1] = 0.1091 (-0.0137) | (0.0022) | |



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367Date: 01/16/2013
Time: 15:25:39SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE ETOH AND IPA
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.52: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

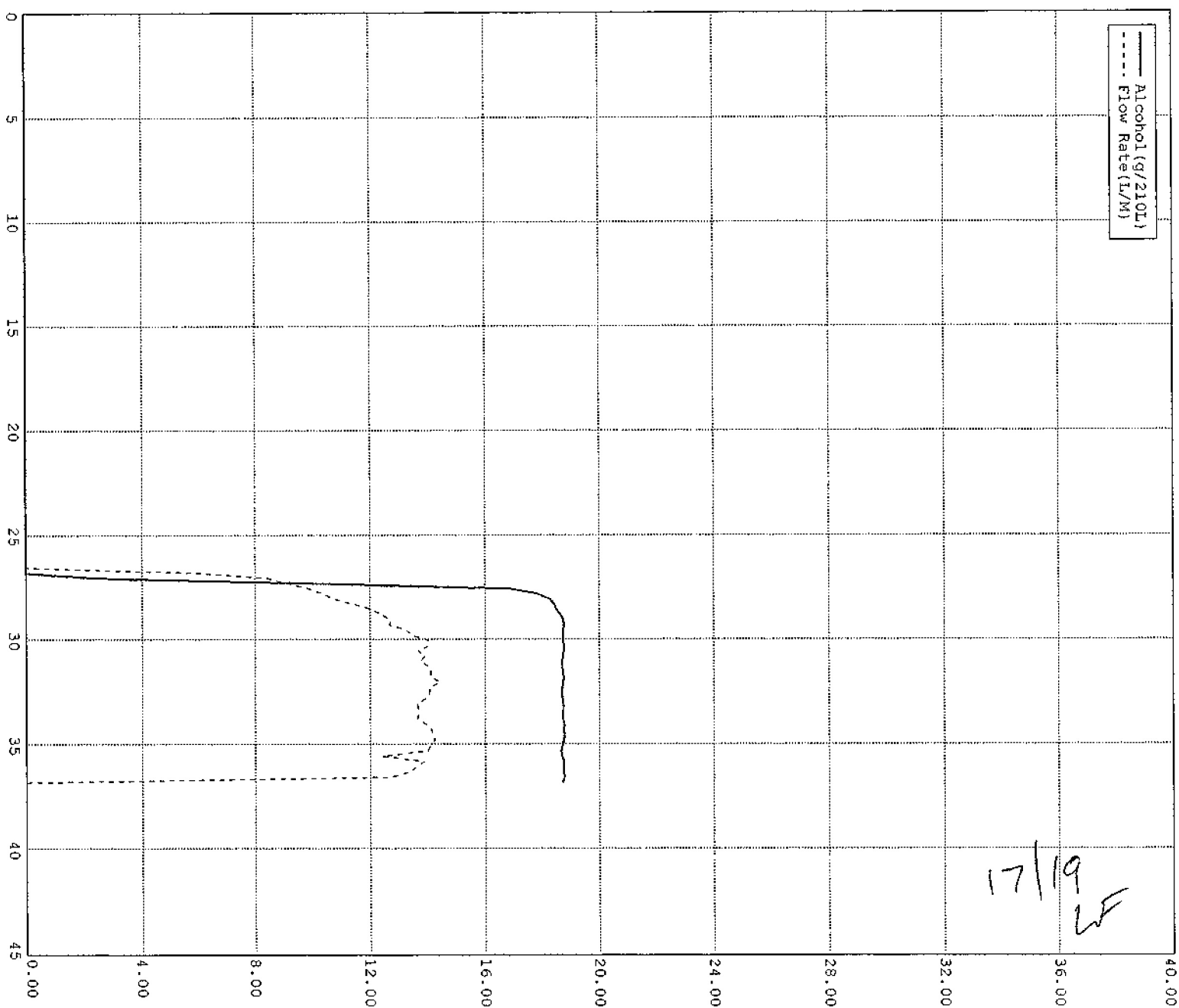
| DIAGNOSTIC CHECK | PASSED | 15:30 |
|----------------------------------|--------------|-------|
| BLANK TEST | 0.000 | 15:30 |
| INTERNAL STANDARD | VERIFIED | 15:31 |
| Xg = 0.080 (3.35%) | | |
| EXTERNAL STANDARD | 0.080 | 15:31 |
| X[1] = 0.0806 (-0.0009) (0.0017) | | |
| BLANK TEST | 0.000 | 15:32 |
| SUBJECT SAMPLE | INTERFERENCE | 15:32 |
| X[1] = 0.1180 (-0.0277) (0.0015) | | |



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100367Date: 01/16/2013
Time: 15:36:17SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE ETOH ONLY
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.52: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| DIAGNOSTIC CHECK | PASSED | 15:44 |
|--------------------------------|----------|-------|
| BLANK TEST | 0.000 | 15:44 |
| INTERNAL STANDARD | VERIFIED | 15:44 |
| X ₉ = 0.080 (3.02%) | | |
| EXTERNAL STANDARD | 0.080 | 15:44 |
| X[1] = 0.0804 (-0.0007) | (0.0018) | |
| BLANK TEST | 0.000 | 15:45 |
| SUBJECT SAMPLE (Vol=2.15L) | 0.094 | 15:46 |
| X[1] = 0.0943 (-0.0002) | (0.0013) | |
| BLANK TEST | 0.000 | 15:47 |
| EXTERNAL STANDARD | 0.079 | 15:47 |
| X[1] = 0.0798 (-0.0002) | (0.0019) | |
| BLANK TEST | 0.000 | 15:48 |



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100367

Date: 01/17/2013

Time: 08:38:57

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 29.30: 0.078

LOT #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

BLANK TEST

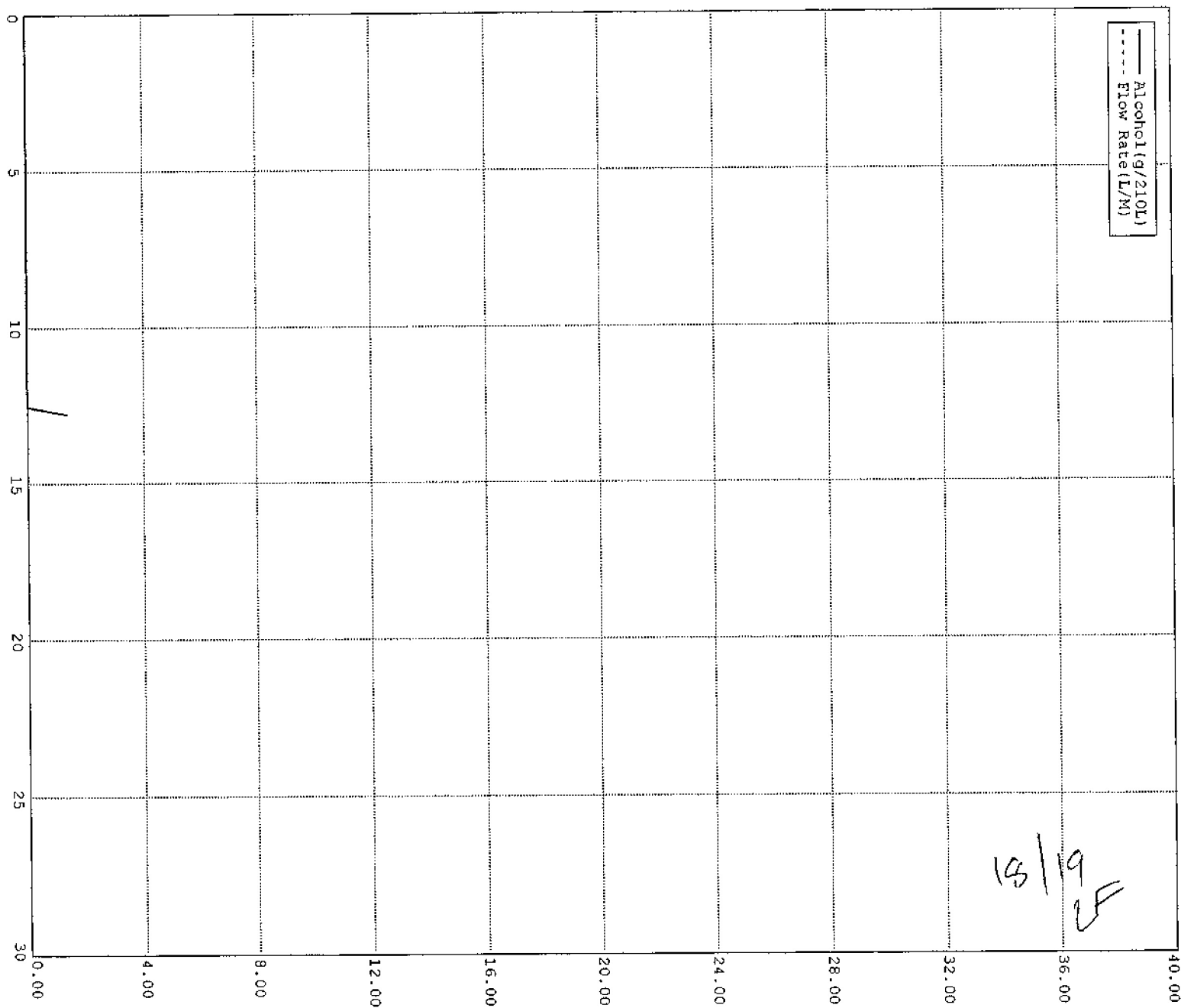
INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

RFI DETECTED

| | PASSED | 08:39 |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 08:40 |
| INTERNAL STANDARD | VERIFIED | 08:40 |
| EXTERNAL STANDARD | 0.080 | 08:40 |
| BLANK TEST | 0.000 | 08:41 |



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100367Date: 01/17/2013
Time: 09:19:51SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.30: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| DIAGNOSTIC CHECK | PASSED | 09:22 |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 09:22 |
| INTERNAL STANDARD | VERIFIED | 09:22 |
| EXTERNAL STANDARD | 0.079 | 09:22 |
| BLANK TEST | 0.000 | 09:23 |
| SUBJECT SAMPLE | 0.000 | 09:24 |
| BLANK TEST | 0.000 | 09:24 |
| EXTERNAL STANDARD | 0.080 | 09:25 |
| BLANK TEST | 0.000 | 09:26 |

