

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 01/27/2012
Effective: 01/27/2012

Version: DMCEF2012 R0
Status: Active

Instrument S/N 100 361Analyst CRFStart Date 3/2/12

Ran USB Fixer, updated software to 2.0, ensured instrument was back vented

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 07511080A1 Exp 3/1/13iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/131. Simulator S/N SD1176 Date Calibrated 8/17/11vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/131. Simulator S/N SD1202 Date Calibrated 8/17/11

5. Functional Tests (attached).

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/131. Simulator S/N SD1199 Date Calibrated 1/11/12ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/121. Simulator S/N DIR6267 Date Calibrated 1/10/12d. 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 ☒ W/AEnd Date 3/6/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 03/02/2012
Time: 14:40:09

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 45.1°C	PASSED

PUMP INFO

Flow Rate = 4.641 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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CNF

Technician Screen

DATAMASTER dmt: 100361

Date: 03/02/2012

Time: 2:56 PM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 44.7°C

Current Barometer 29.2 in

Volume (Ltr) 1.58

Settings

Lamp: 1.89 V

Bias: 80 V

Cooler: 1.94 V

Chopper: 531 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.027 V

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CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 05/02/2011
Time: 14:04:52

OPERATOR NAME:
COLLEEN OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2012

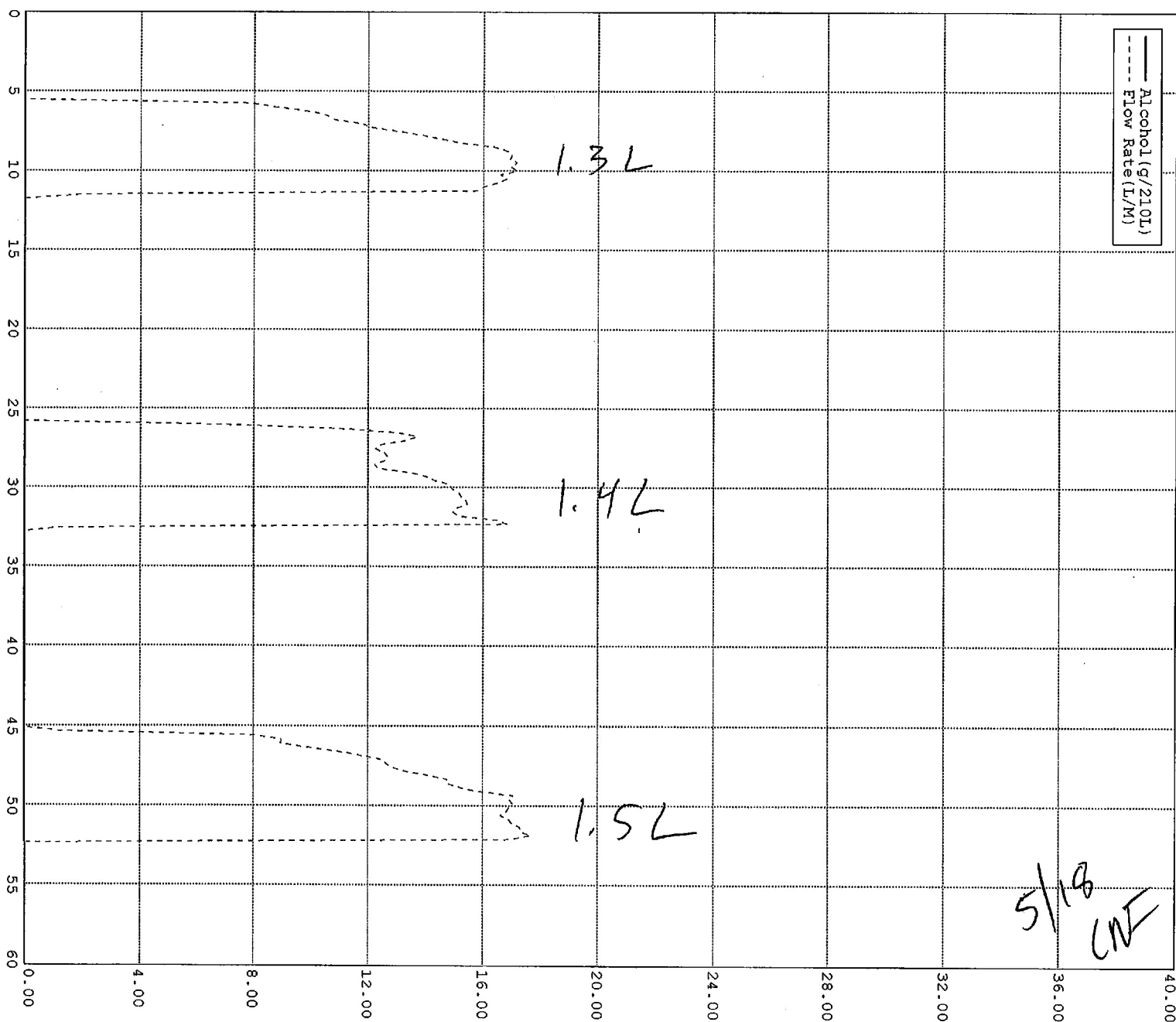
Ca = 0.1000
CAL = 0.999924 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.0749 0.0500 <= Xq < 0.2000
a21 = 1.193542 1.050 <= a21 < 1.300
a31 = 0.505376 0.300 <= a31 < 0.800

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CDE

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361Date: 03/02/2012
Time: 15:42:38SUBJECT 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 29.24: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:43
BLANK TEST	0.000	15:43
INTERNAL STANDARD	VERIFIED	15:43
EXTERNAL STANDARD	0.077	15:44
BLANK TEST	0.000	15:45
SUBJECT SAMPLE	0.000	15:45
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.077	15:47
BLANK TEST	0.000	15:47

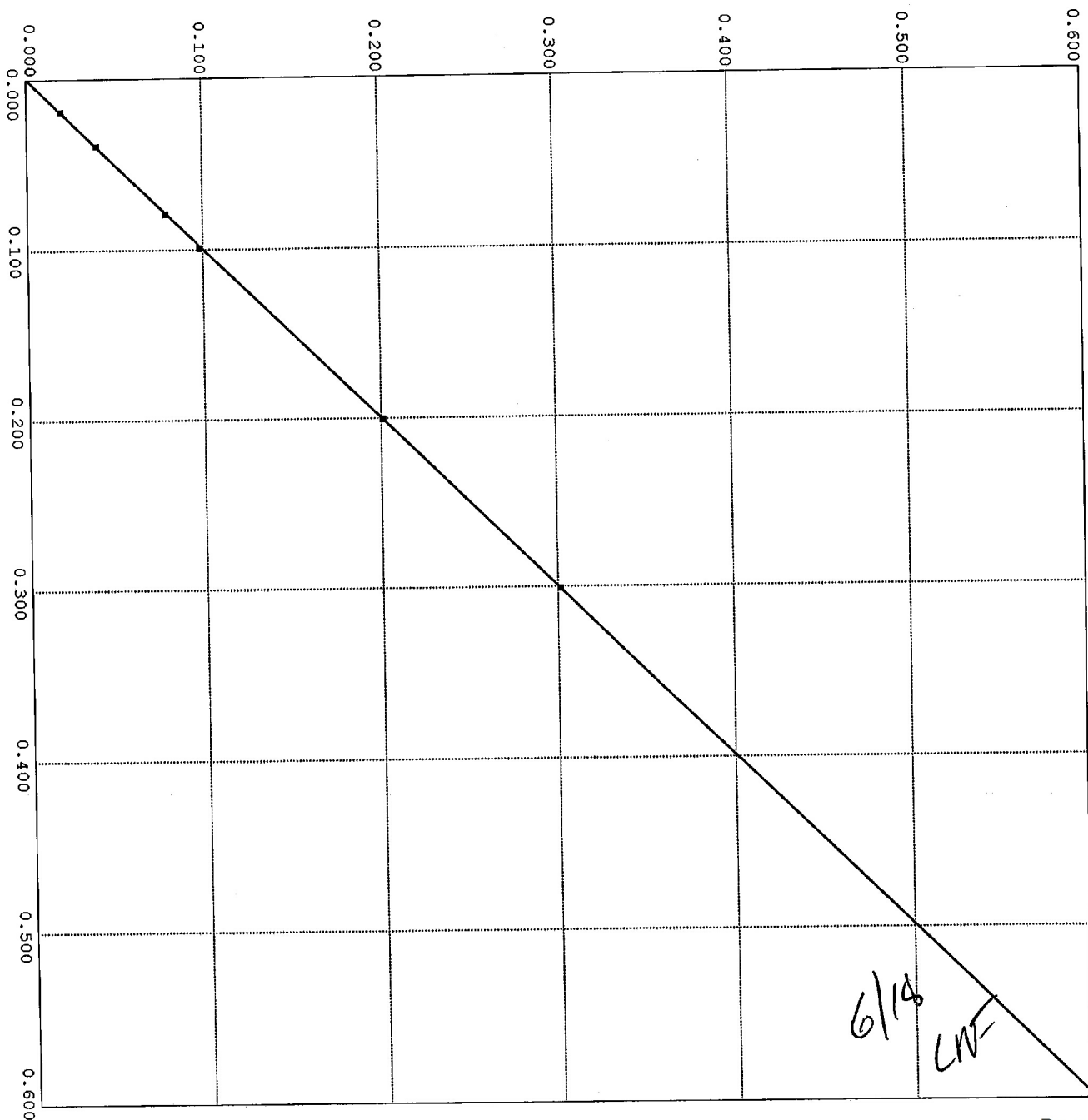


LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100361Date: 03/05/2012
Time: 09:27:59SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0206	0.0002
0.039	0.0406	0.0002
0.079	0.0796	0.0002
0.099	0.0989	0.0004
0.200	0.2018	0.0007
0.300	0.3023	0.0004

SLOPE = 1.003853
 R^2 = 0.999948



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100361

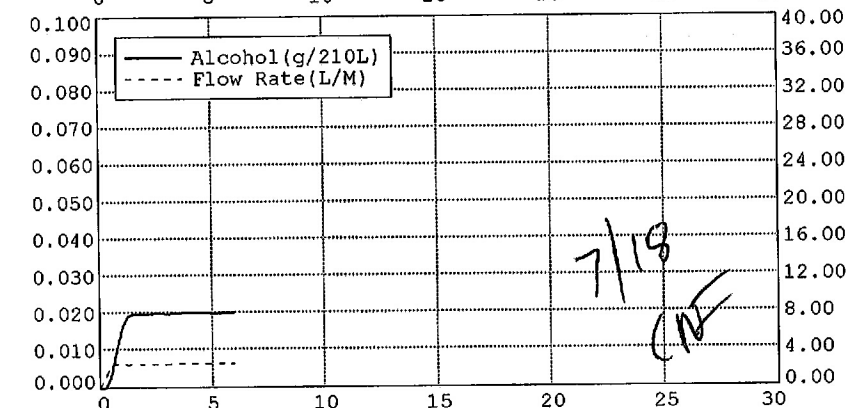
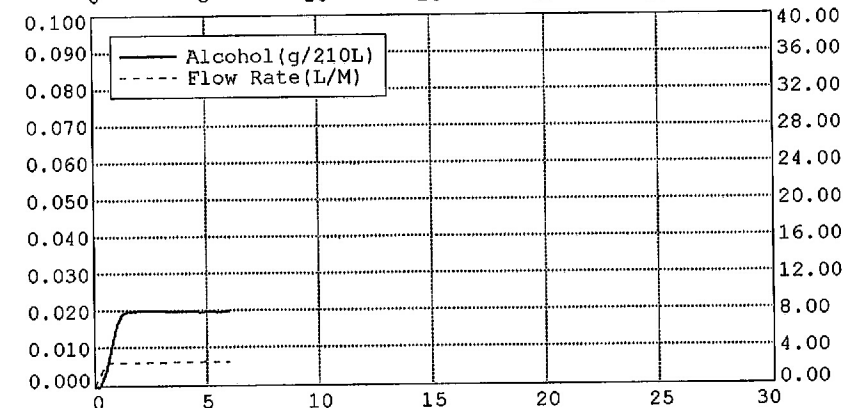
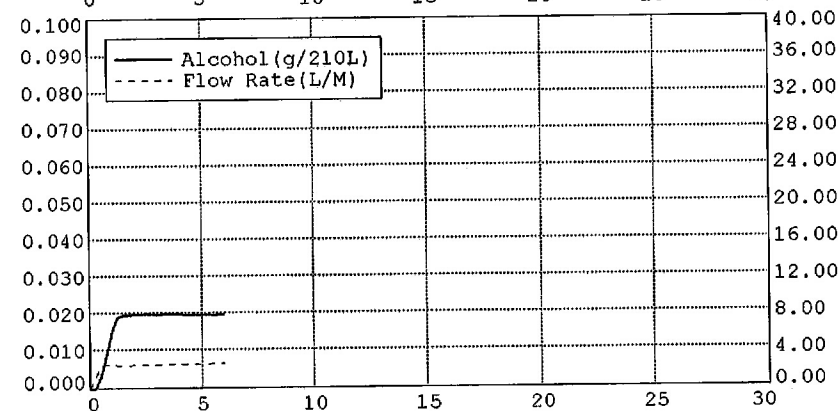
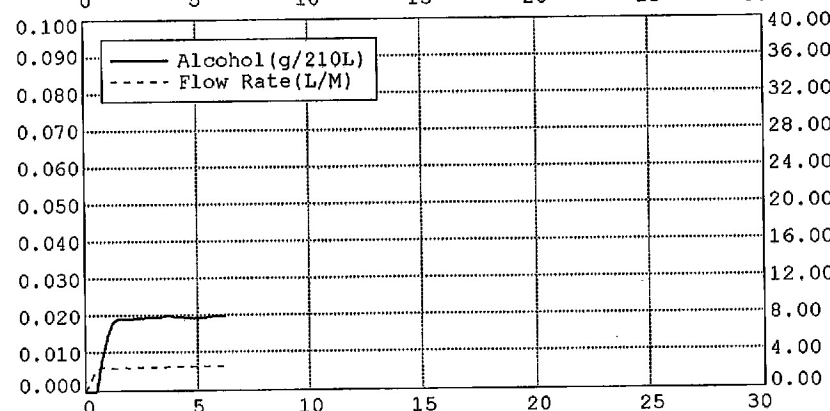
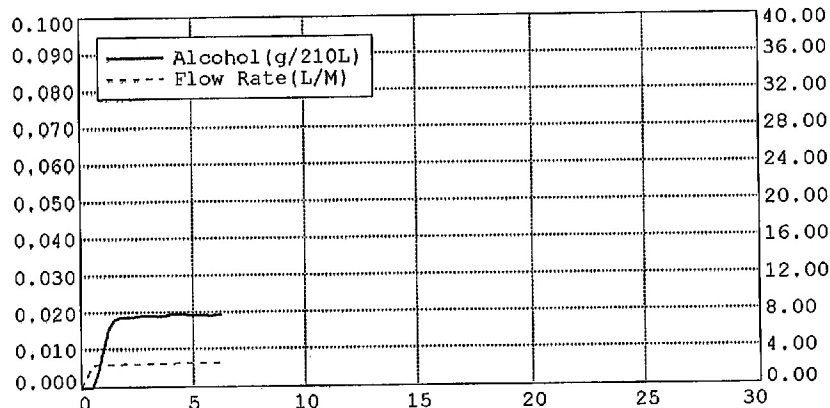
Date: 03/05/2012
Time: 09:28:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.90: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:29
INTERNAL STANDARD	VERIFIED	09:29
EXTERNAL STANDARD	0.020	09:29
BLANK TEST	0.000	09:30
EXTERNAL STANDARD	0.020	09:30
BLANK TEST	0.000	09:31
EXTERNAL STANDARD	0.020	09:31
BLANK TEST	0.000	09:32
EXTERNAL STANDARD	0.020	09:33
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.020	09:34
BLANK TEST	0.000	09:35

Average = 0.0206
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100361

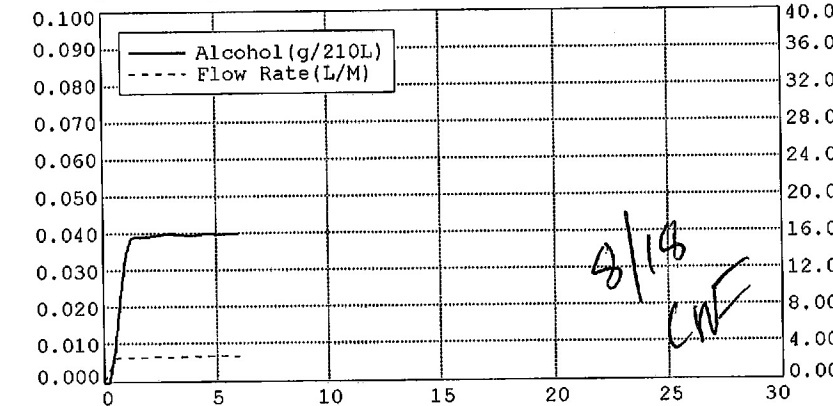
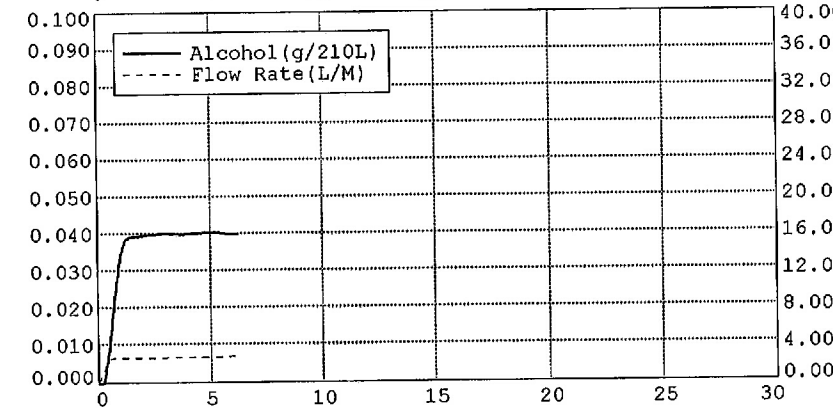
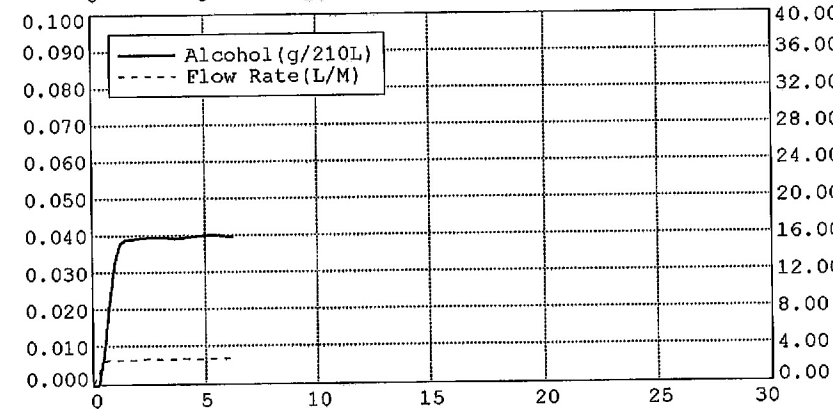
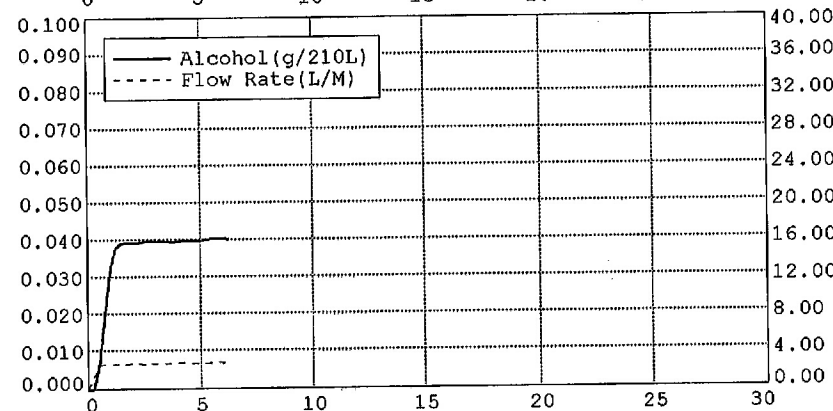
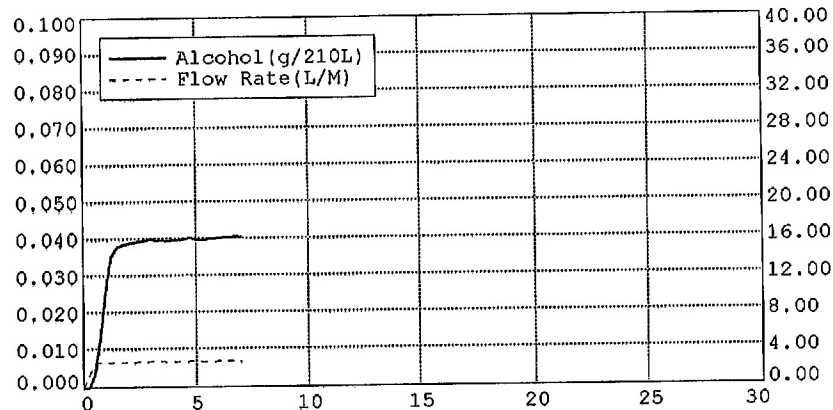
Date: 03/05/2012
Time: 09:36:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.90: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:37
INTERNAL STANDARD	VERIFIED	09:37
EXTERNAL STANDARD	0.040	09:38
BLANK TEST	0.000	09:39
EXTERNAL STANDARD	0.040	09:39
BLANK TEST	0.000	09:40
EXTERNAL STANDARD	0.040	09:40
BLANK TEST	0.000	09:41
EXTERNAL STANDARD	0.040	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.040	09:42
BLANK TEST	0.000	09:43

Average = 0.0406
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

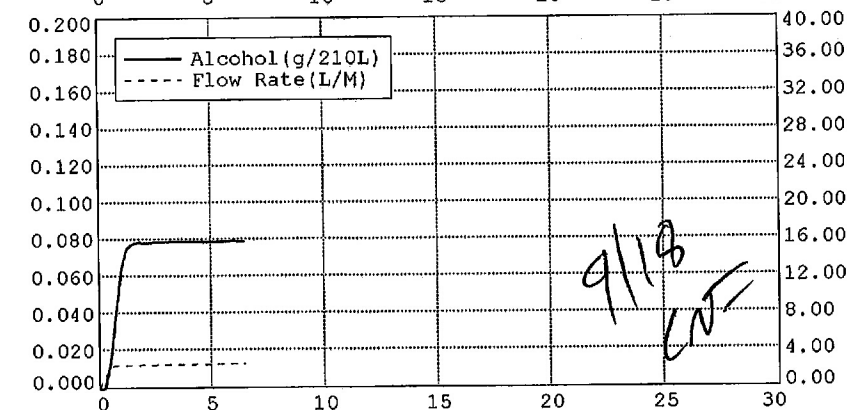
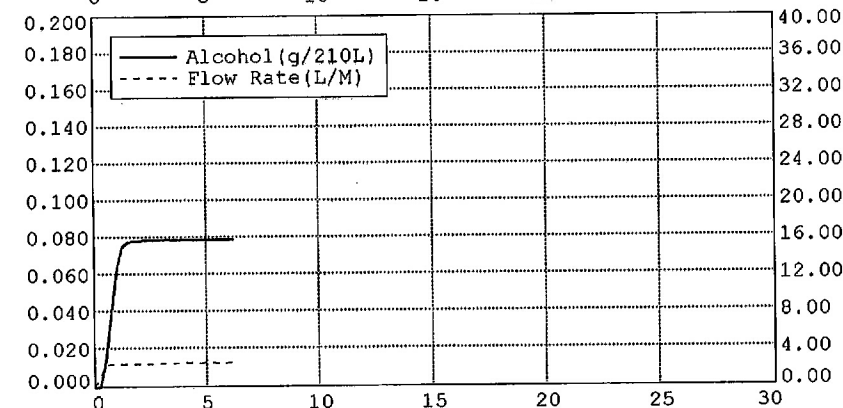
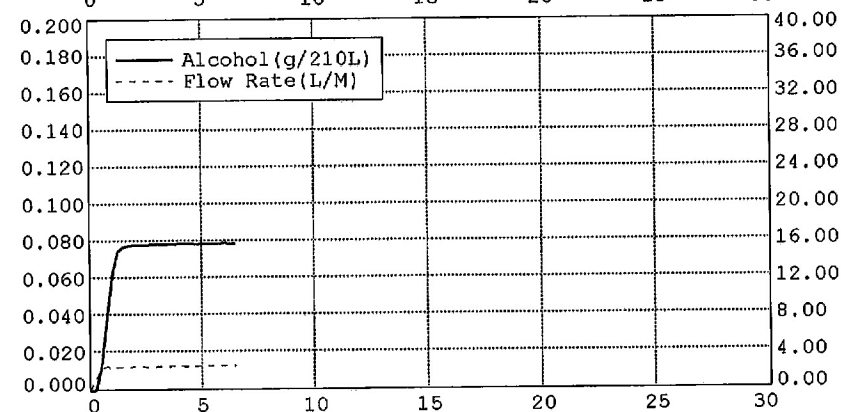
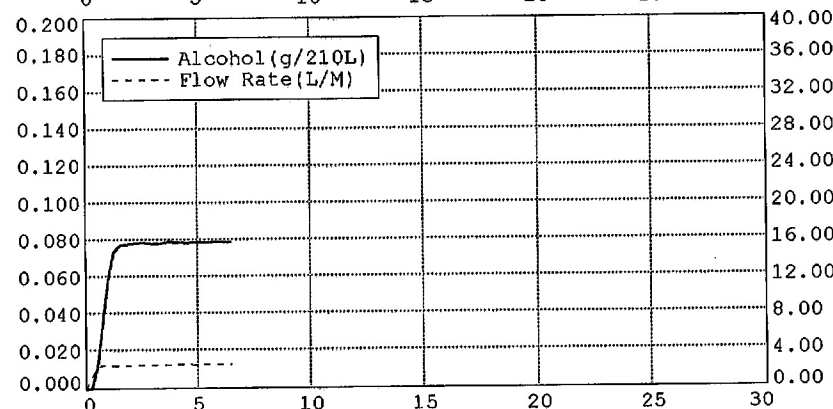
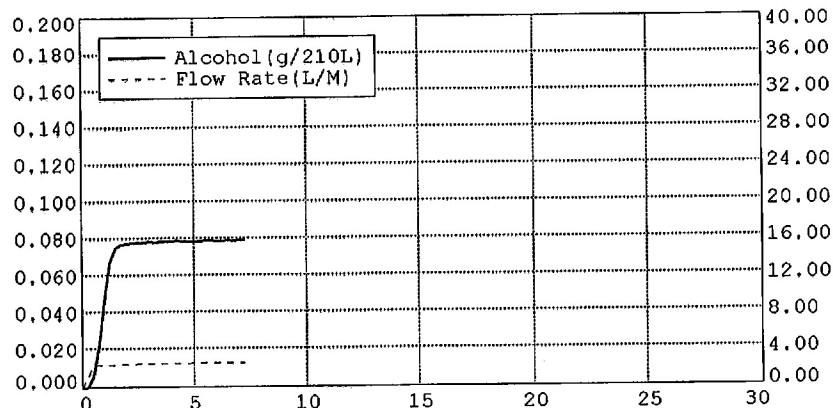
Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 03/05/2012
Time: 09:43:54

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.90: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:45
INTERNAL STANDARD	VERIFIED	09:45
EXTERNAL STANDARD	0.079	09:45
BLANK TEST	0.000	09:46
EXTERNAL STANDARD	0.079	09:46
BLANK TEST	0.000	09:47
EXTERNAL STANDARD	0.079	09:47
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.079	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.079	09:49
BLANK TEST	0.000	09:50

Average = 0.0796
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100361

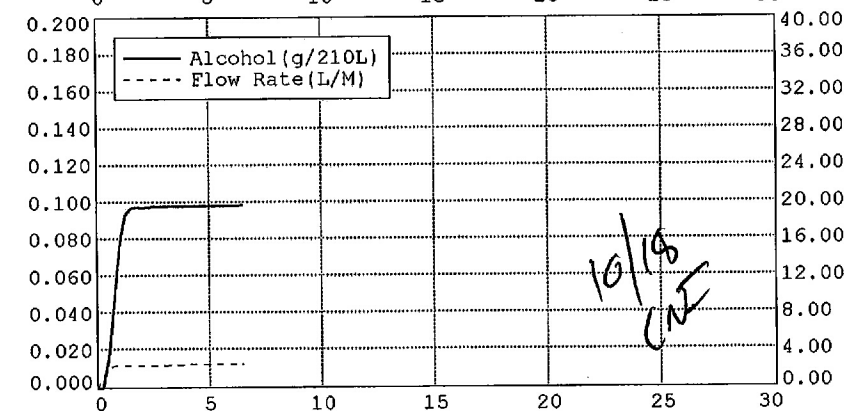
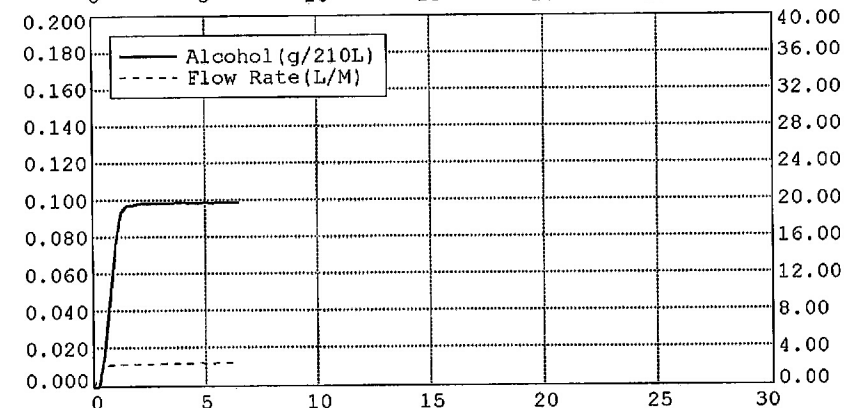
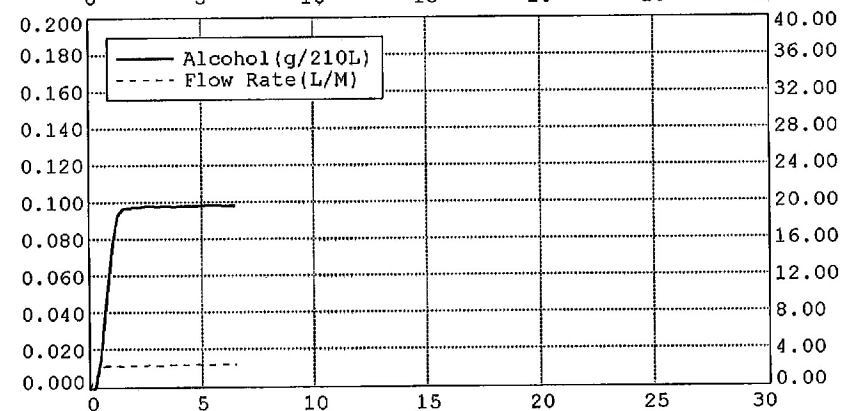
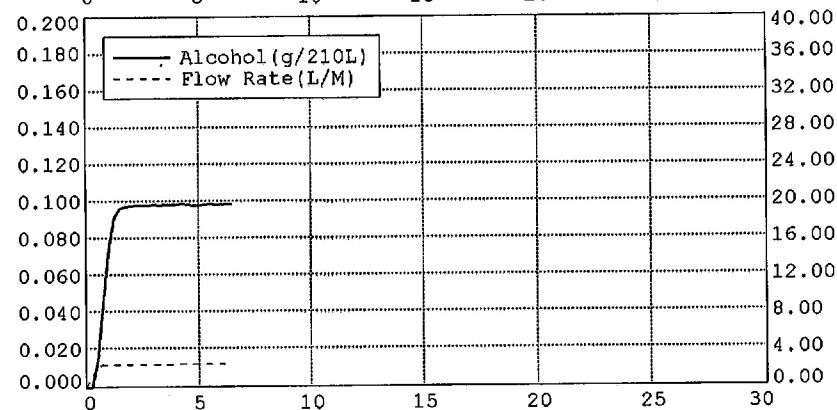
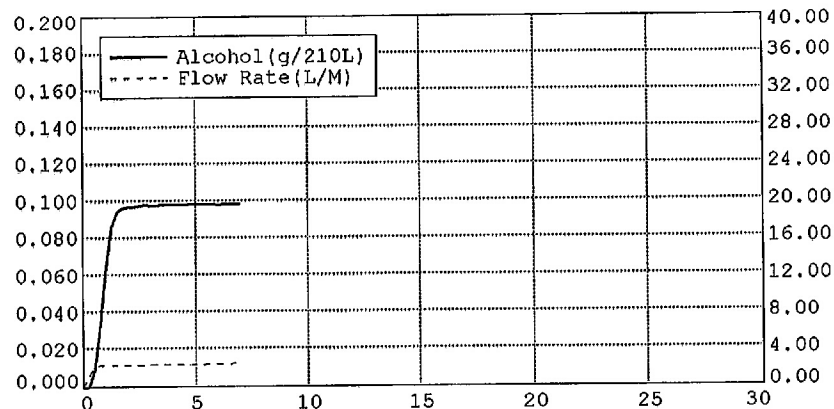
Date: 03/05/2012
Time: 09:52:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.89: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:53
INTERNAL STANDARD	VERIFIED	09:53
EXTERNAL STANDARD	0.098	09:54
BLANK TEST	0.000	09:55
EXTERNAL STANDARD	0.099	09:55
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.099	09:56
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.099	09:57
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.098	09:58
BLANK TEST	0.000	09:59

Average = 0.0989
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

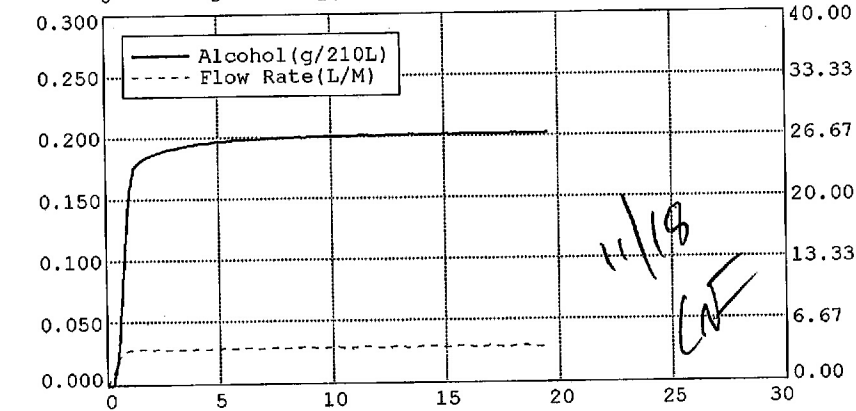
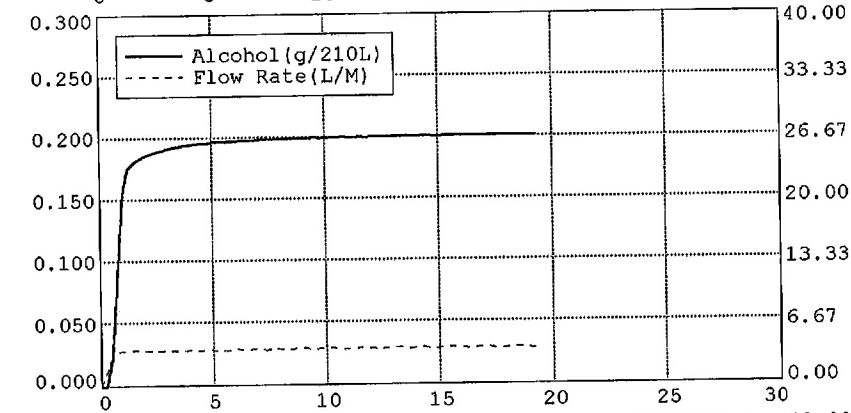
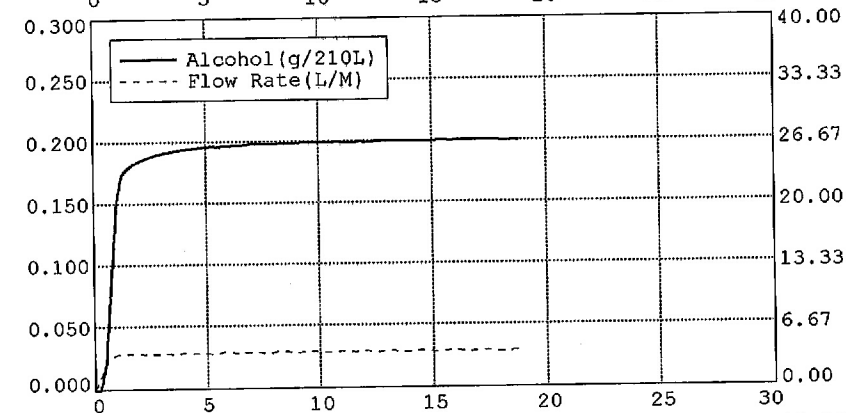
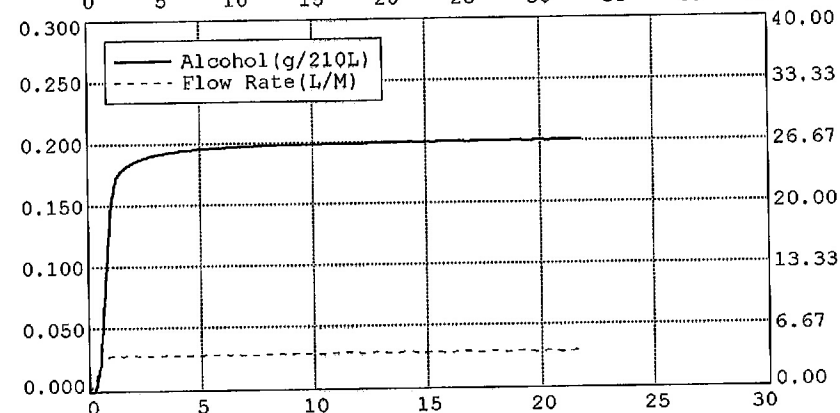
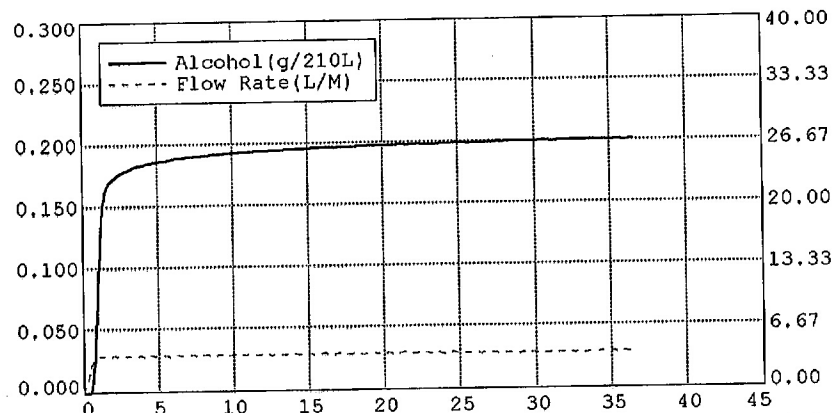
Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 03/05/2012
Time: 10:01:07

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

BLANK TEST	0.000	10:02
INTERNAL STANDARD	VERIFIED	10:02
EXTERNAL STANDARD	0.201	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.201	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.201	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.201	10:07
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.203	10:08
BLANK TEST	0.000	10:09

Average = 0.2018
Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

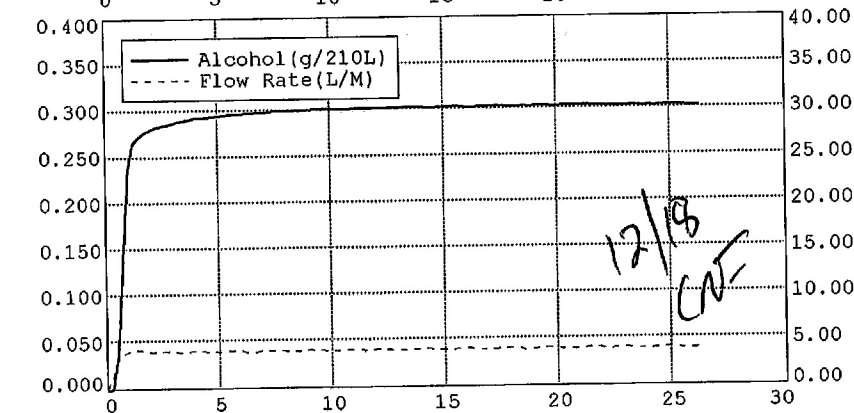
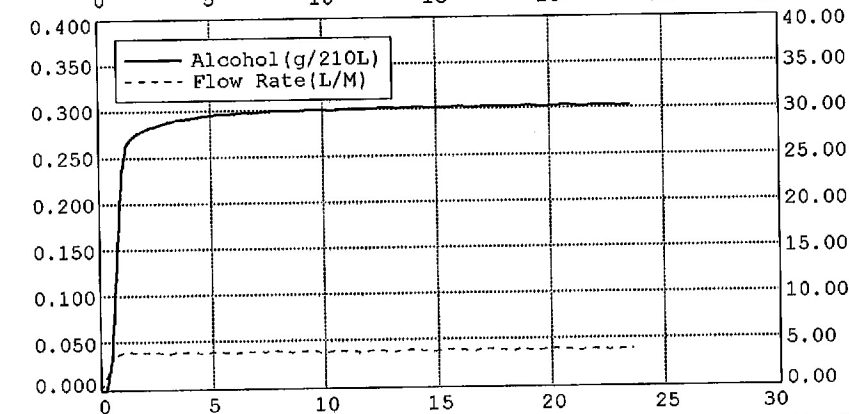
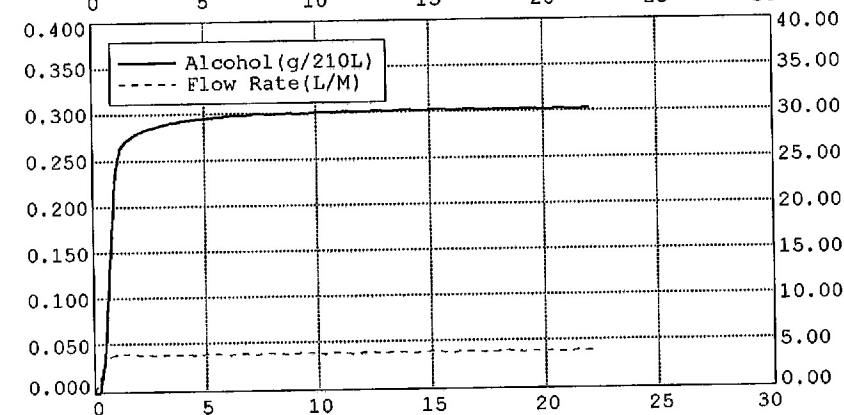
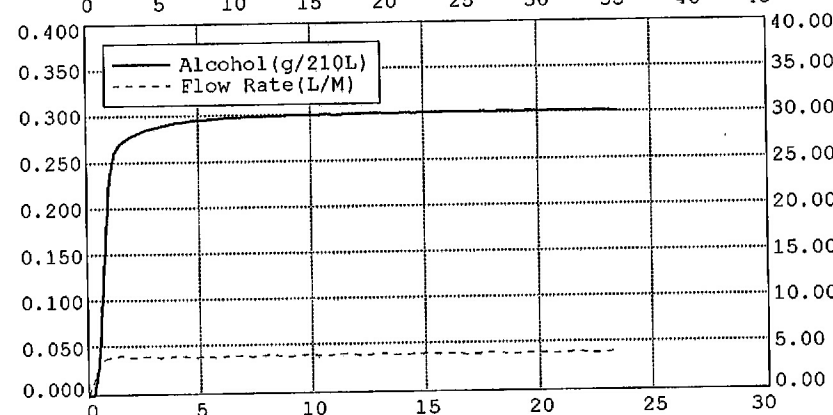
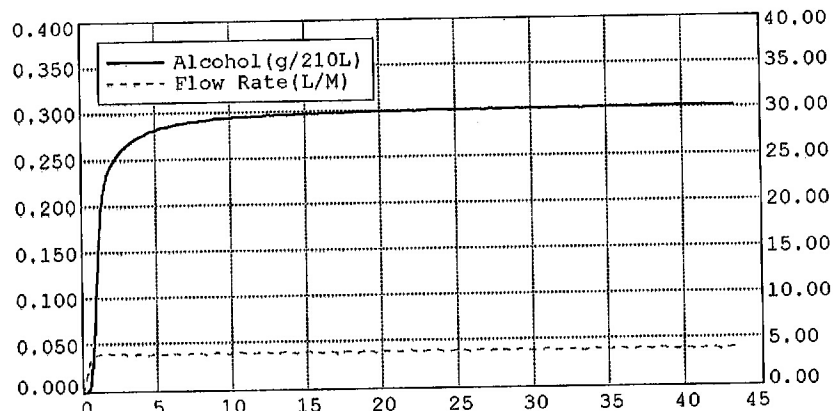
Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 03/05/2012
Time: 10:13:12

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
LOT #: 11110
EXPIRATION: 07/13/2013

BLANK TEST	0.000	10:14
INTERNAL STANDARD	VERIFIED	10:14
EXTERNAL STANDARD	0.302	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.301	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.302	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.302	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.302	10:21
BLANK TEST	0.000	10:21

Average = 0.3023
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100361

Date: 03/05/2012
Time: 10:30:46

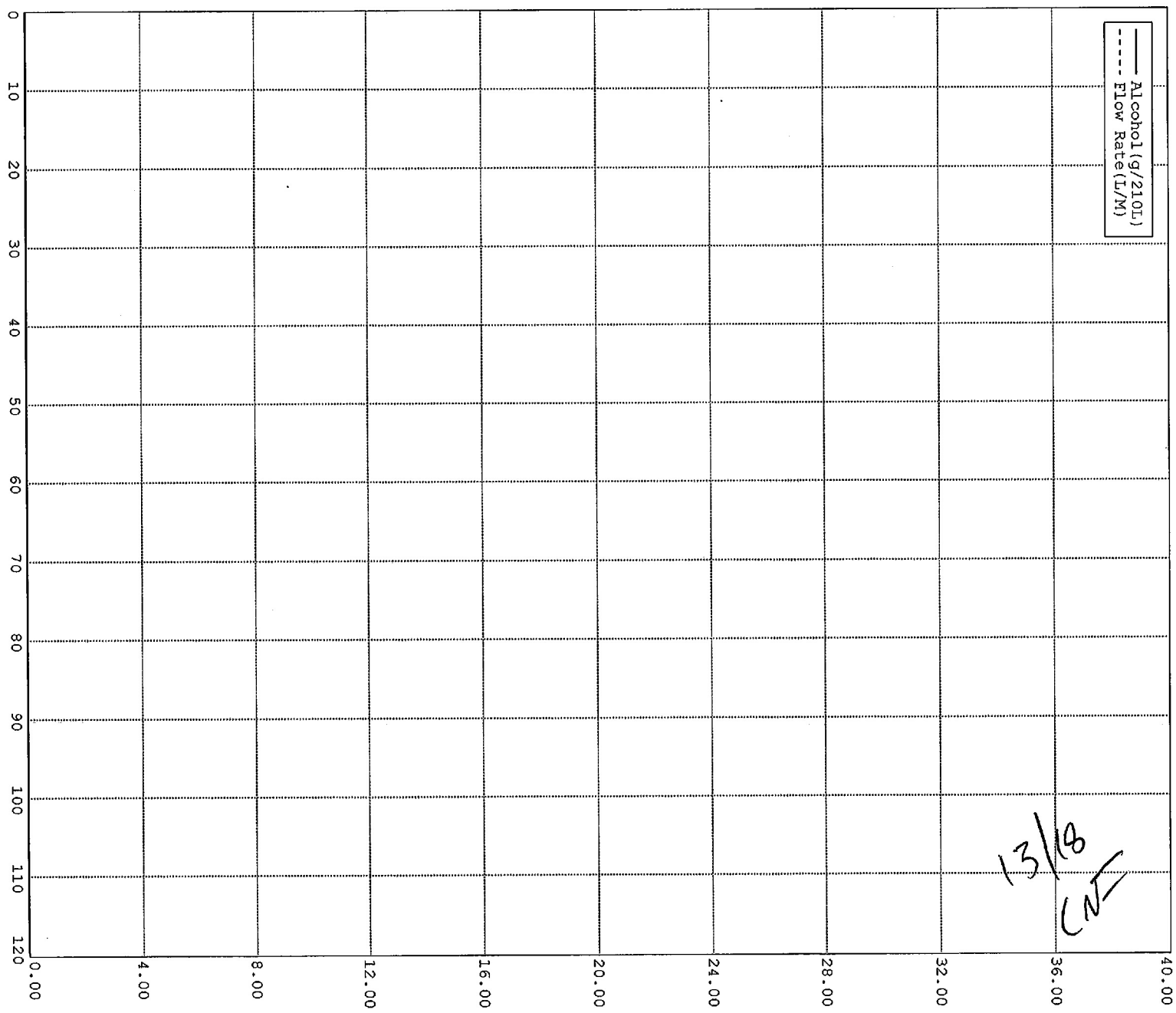
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.88: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:31
BLANK TEST	0.000	10:31
INTERNAL STANDARD	VERIFIED	10:32
EXTERNAL STANDARD	0.078	10:32
BLANK TEST	0.000	10:33
SUBJECT SAMPLE	INCOMPLETE	10:35



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 03/05/2012
Time: 14:30:13

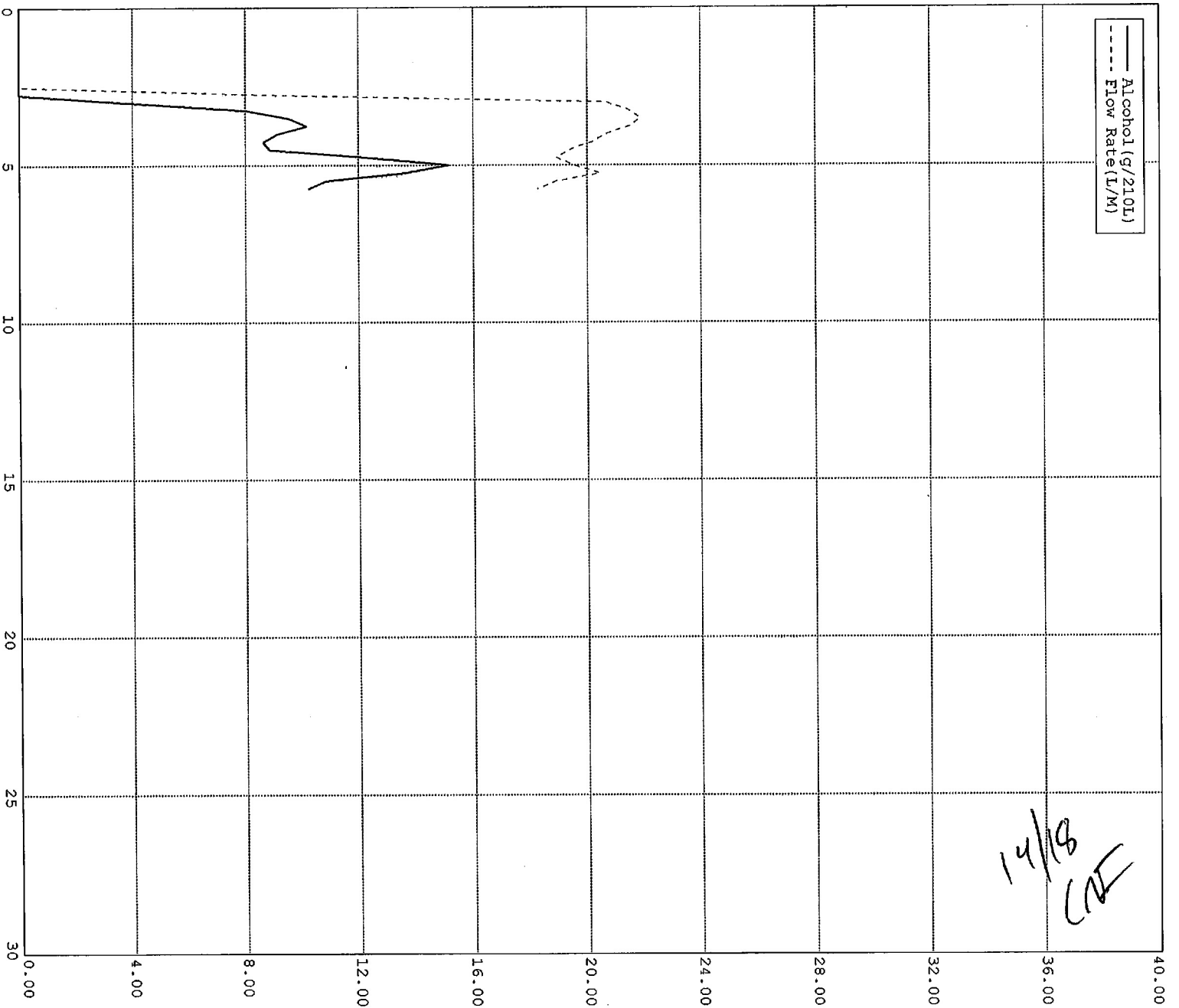
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.82: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:33
BLANK TEST	0.000	14:33
INTERNAL STANDARD	VERIFIED	14:33
EXTERNAL STANDARD	0.078	14:34
BLANK TEST	0.000	14:35
SUBJECT SAMPLE	INVALID	14:35



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100361

Date: 03/05/2012
Time: 15:00:18

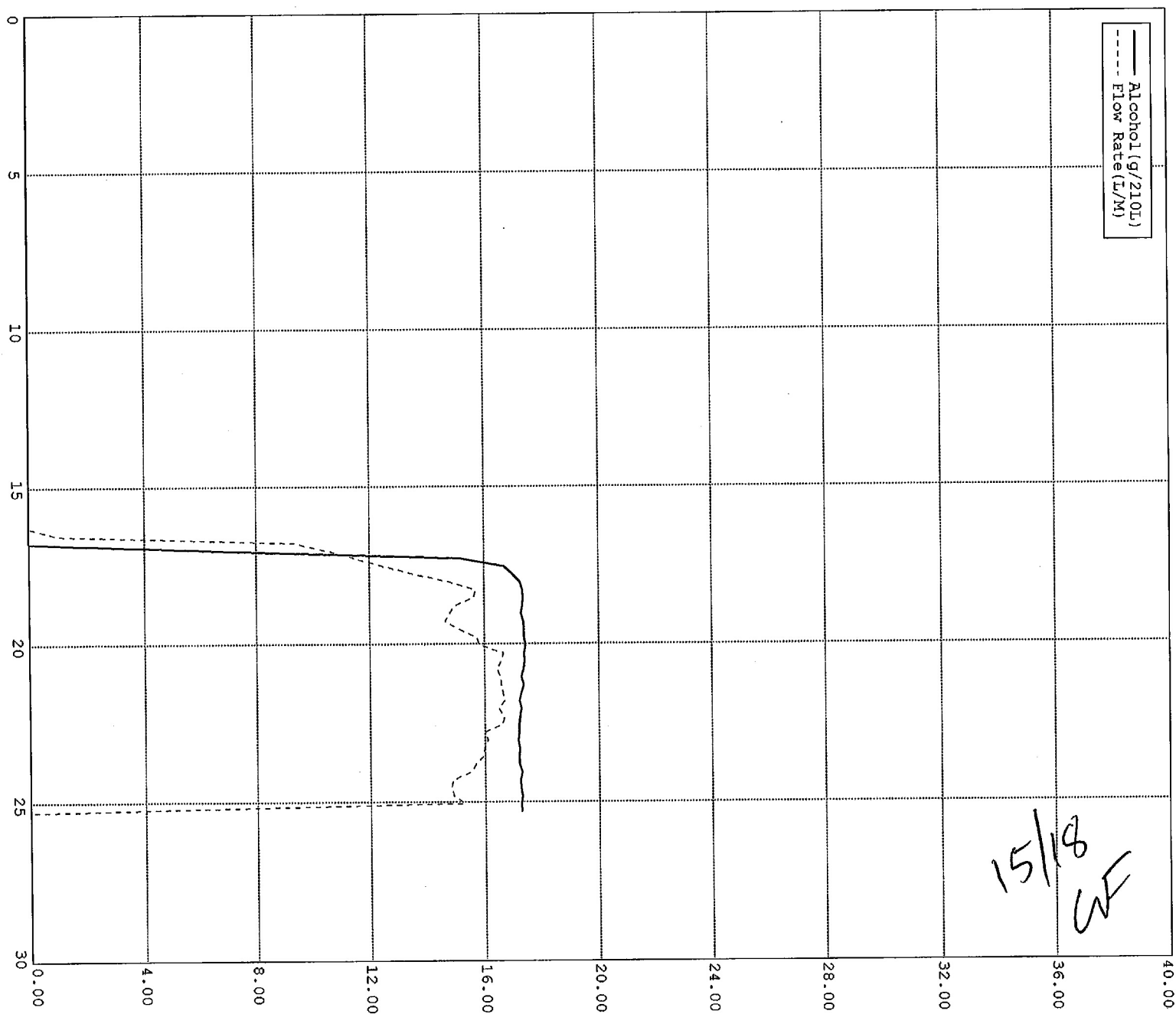
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.81: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:01
BLANK TEST	0.000	15:01
INTERNAL STANDARD	VERIFIED	15:01
EXTERNAL STANDARD	0.079	15:02
BLANK TEST	0.000	15:02
SUBJECT SAMPLE	INTERFERENCE	15:03



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 03/05/2012
 Time: 14:48:36

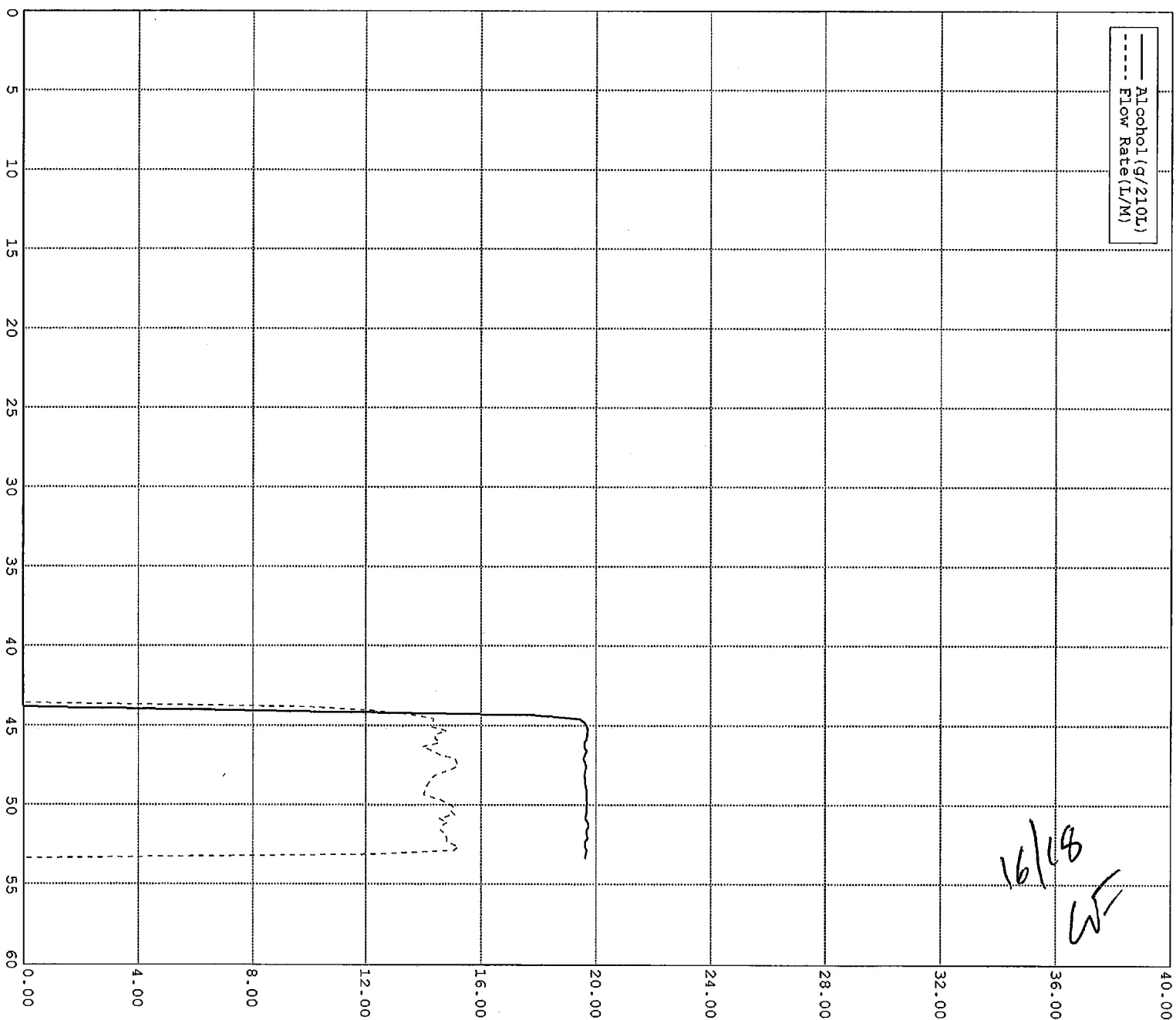
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.82: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:53
BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
EXTERNAL STANDARD	0.079	14:53
BLANK TEST	0.000	14:54
SUBJECT SAMPLE	INTERFERENCE	14:55



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 03/05/2012
Time: 14:40:24

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

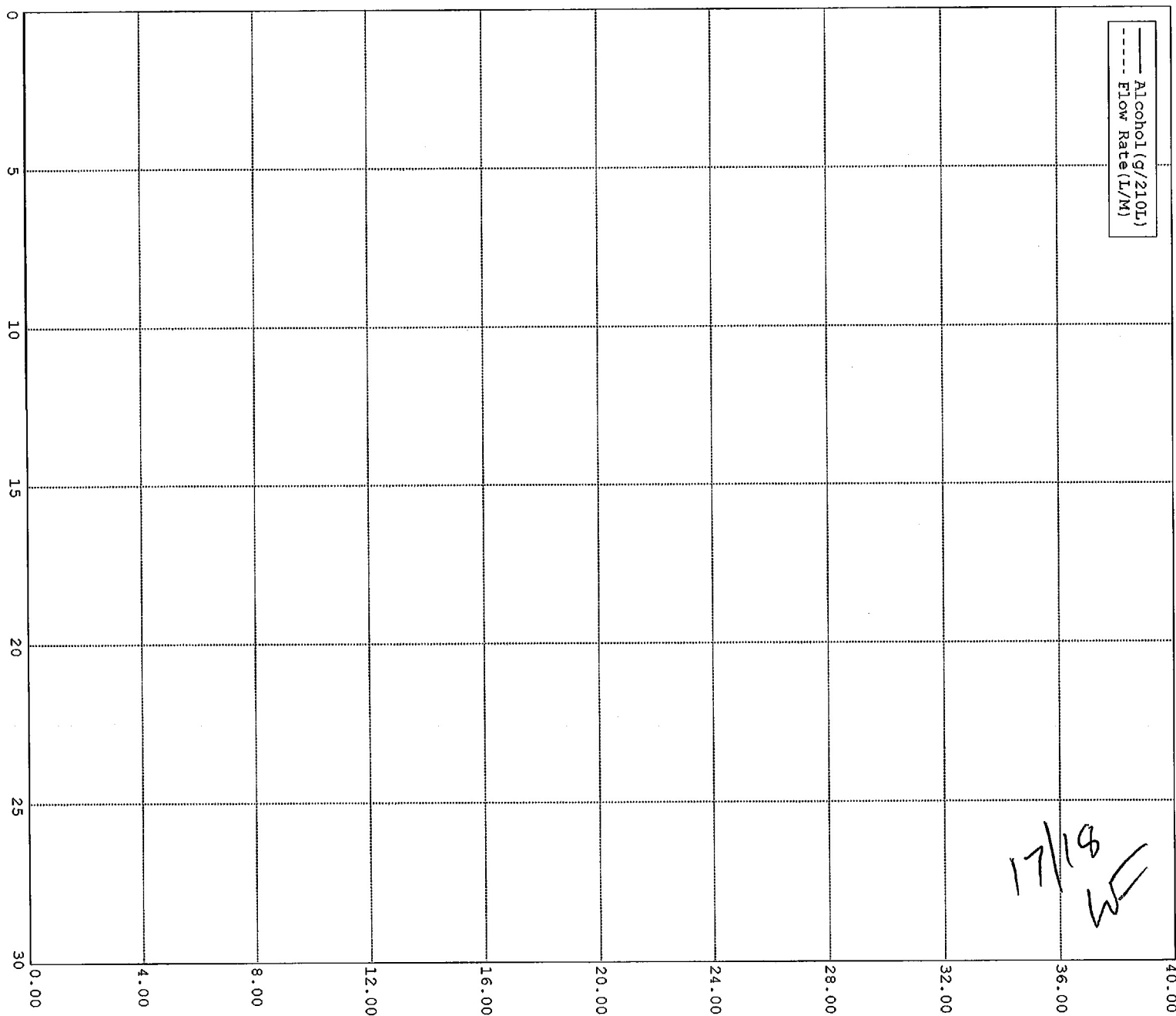
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.83: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK
BLANK TEST PASSED 14:41
INTERNAL STANDARD VERIFIED 14:41
EXTERNAL STANDARD 0.079 14:41
BLANK TEST 0.000 14:42

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100361

Date: 03/05/2012

Time: 15:53:47

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 29.76: 0.079

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

	PASSED
BLANK TEST	0.000 15:54
INTERNAL STANDARD	0.000 15:55
EXTERNAL STANDARD	0.079 15:55
BLANK TEST	0.000 15:56
SUBJECT SAMPLE	0.000 15:56
BLANK TEST	0.000 15:57
EXTERNAL STANDARD	0.079 15:57
BLANK TEST	0.000 15:58

