

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 01/27/2012

Version: DMCEF2012 R0

Effective: 01/27/2012

Status: Active

Instrument S/N 100668Analyst CRFStart Date 2/28/12

Ran USB Fixer, Updated software to 2.00

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 15210020A1 Exp 7/1/12ii. 0.040g/210L Mnf ILMO Lot 15210040A2 Exp 7/1/12iii. 0.080g/210L Mnf ILMO Lot 02511080A1 Exp 2/1/13iv. 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 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 DR6267 Date Calibrated 1/10/12d. RFI ☒6. Verify stylus is calibrated ☒10. Verification of Calibration ☒7. Verify card reader is functional ☒11. Non-Drinking Subject Test (attached) ☒8. Reset Options ☒12. Upload ☒9. Clear Memory ☒13. Update agency information and polling status in DM Host Calling Program NAEnd Date 3/1/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100668

Date: 02/28/2012
Time: 13:25:50

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 48.0°C	PASSED

PUMP INFO	
Flow Rate = 4.781 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
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2/1/8
W

Technician Screen

DATAMASTER dmt: 100668

Date: 02/28/2012

Time: 2:33 PM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 47.4°C

Current Barometer 29.5 in

Volume (ltr) 1.45

Settings

Lamp: 1.66 V

Bias: 79 V

Cooler: 1.69 V

Chopper: 536 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.043 V

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LF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100668

Date: 09/21/2011
Time: 14:00:28

Ca	=	0.1500		
CAL	=	0.988351	0.800	<= CAL < 1,200
b1	=	0.0000	0.0000	<= b1 < 0.0040
b2	=	0.0016	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0947	0.0500	<= Xq < 0.2000
a21	=	1.169724	1.050	<= a21 < 1,300
a31	=	0.527723	0.300	<= a31 < 0.800

4/18
LF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100668

Date: 02/28/2012
 Time: 14:59:42

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

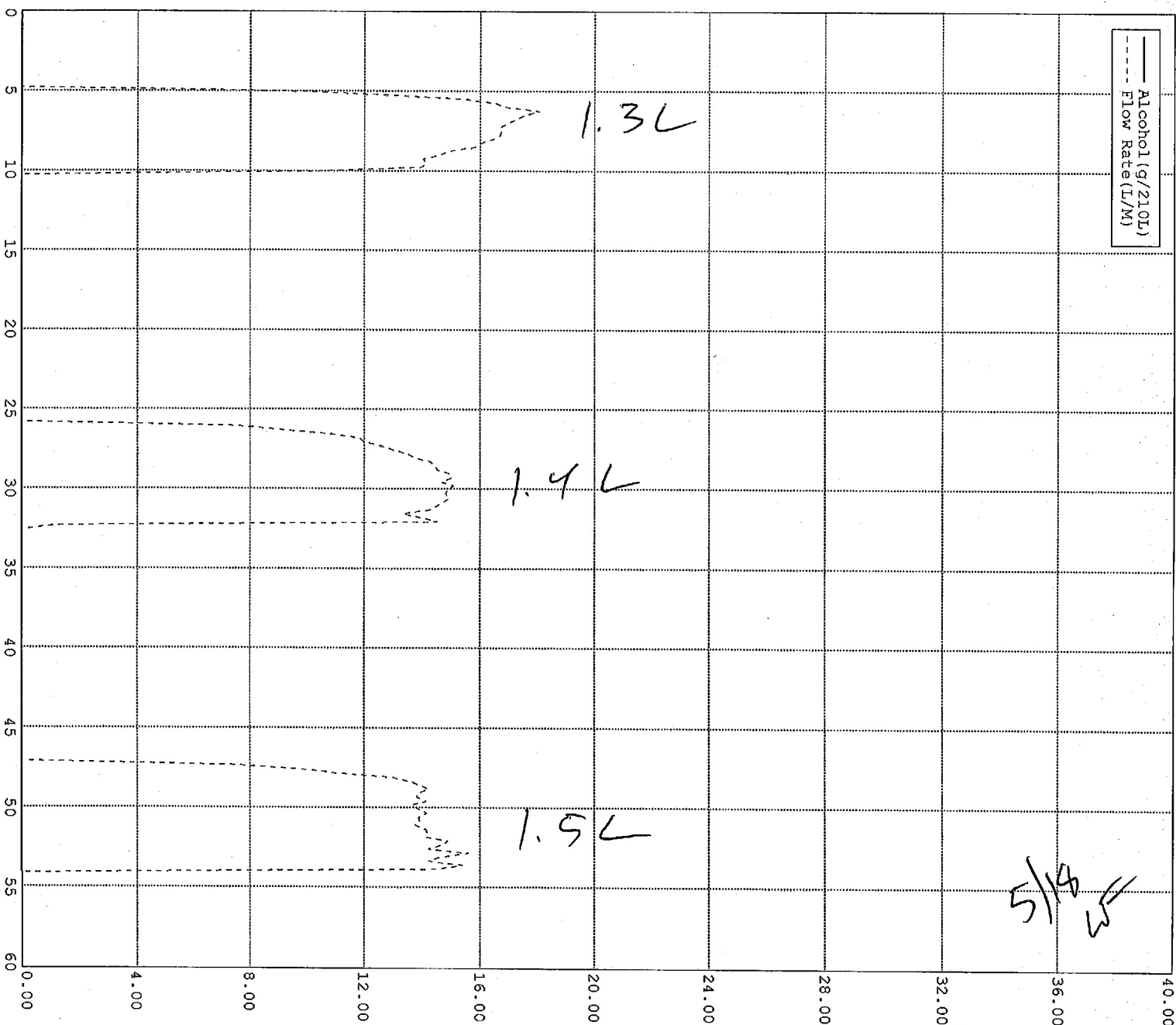
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.48: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:00
BLANK TEST	0.000	15:00
INTERNAL STANDARD	VERIFIED	15:00
EXTERNAL STANDARD	0.078	15:01
BLANK TEST	0.000	15:02
SUBJECT SAMPLE	0.000	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.077	15:04
BLANK TEST	0.000	15:05

CRF



LINEARITY CHECK

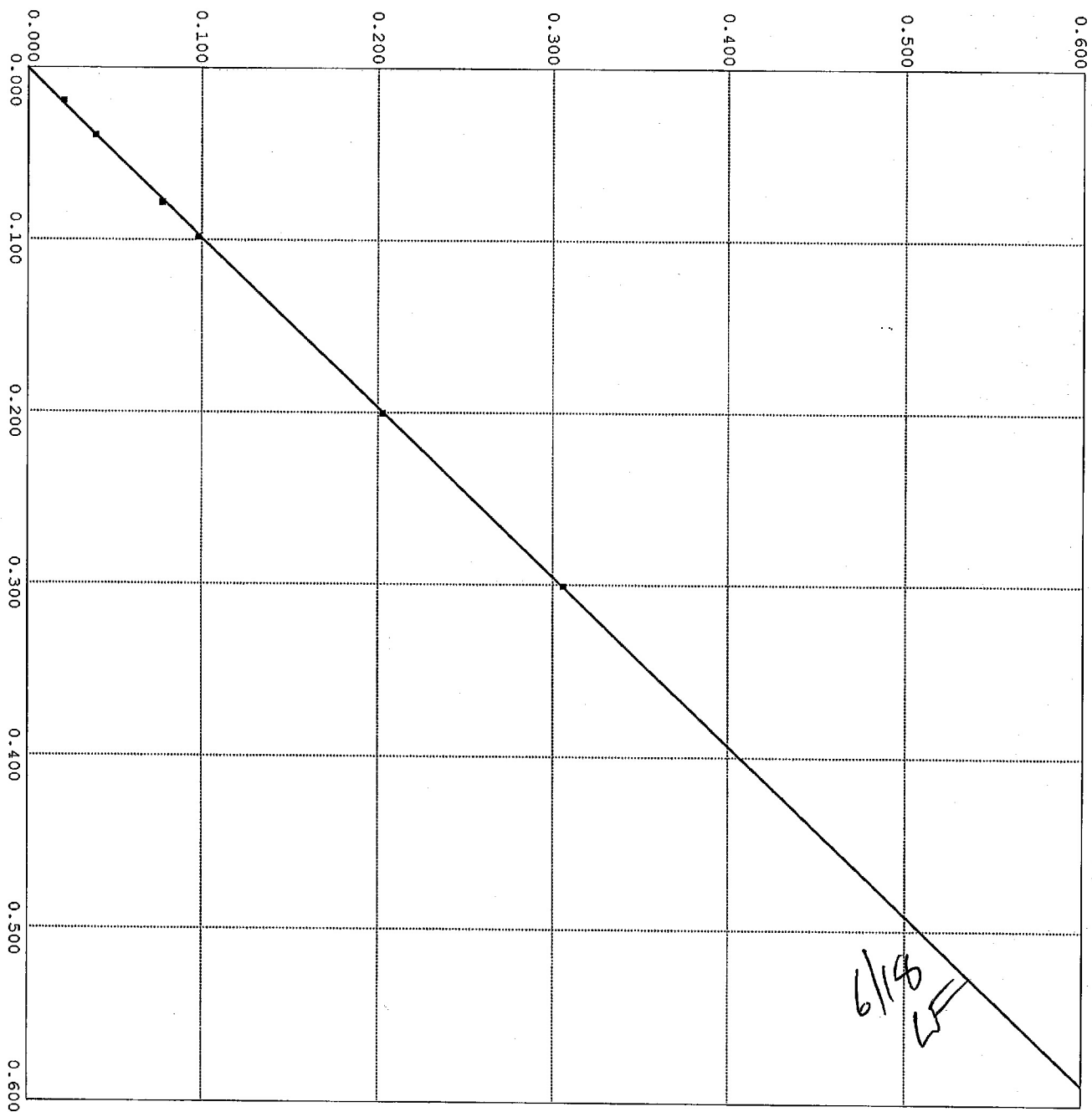
Alaska Department of Public Safety
 DATAMASTER dmt: 100668

Date: 02/28/2012
 Time: 15:09:08

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0213	0.0004
0.039	0.0397	0.0001
0.078	0.0780	0.0006
0.098	0.0987	0.0002
0.200	0.2036	0.0004
0.300	0.3069	0.0004

SLOPE = 1.020564
 R^2 = 0.999852



CF

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100668

Date: 02/28/2012

Time: 15:09:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020

TARGET AT 29.48: 0.019

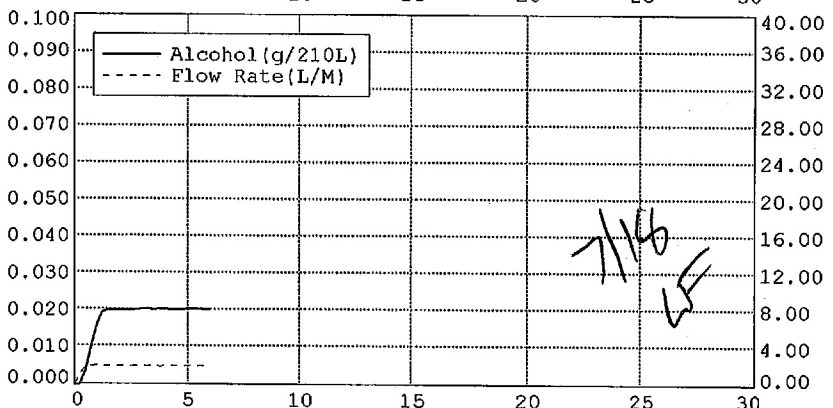
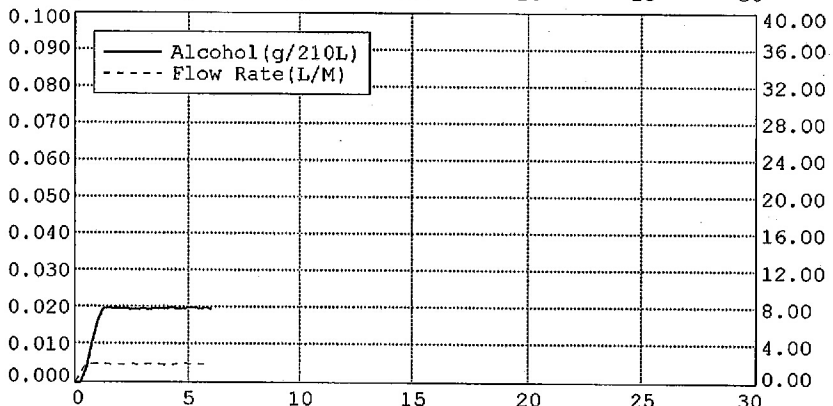
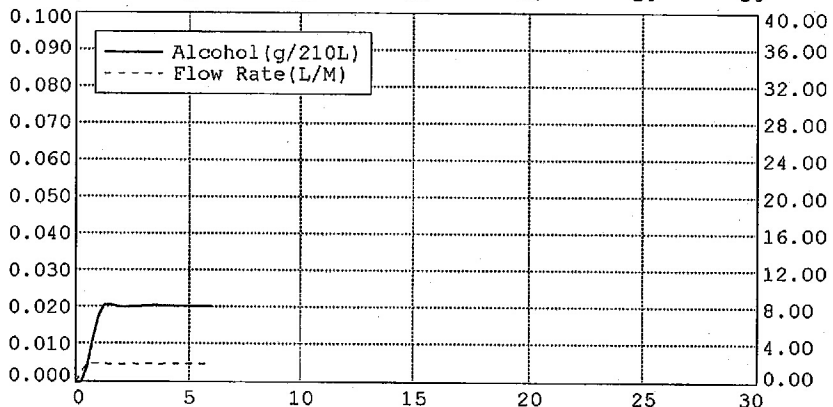
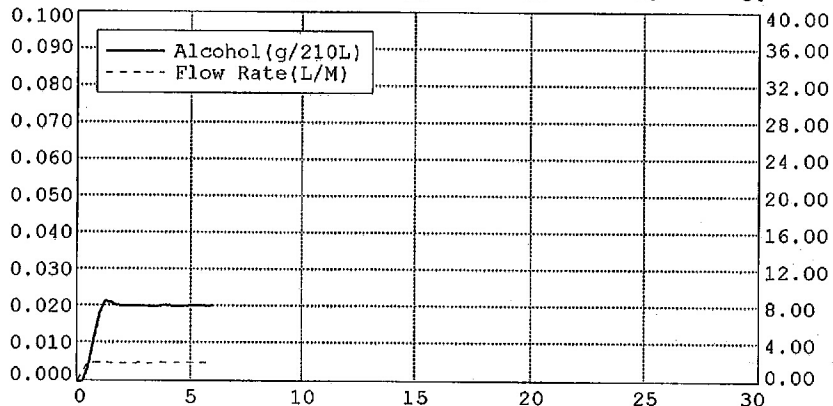
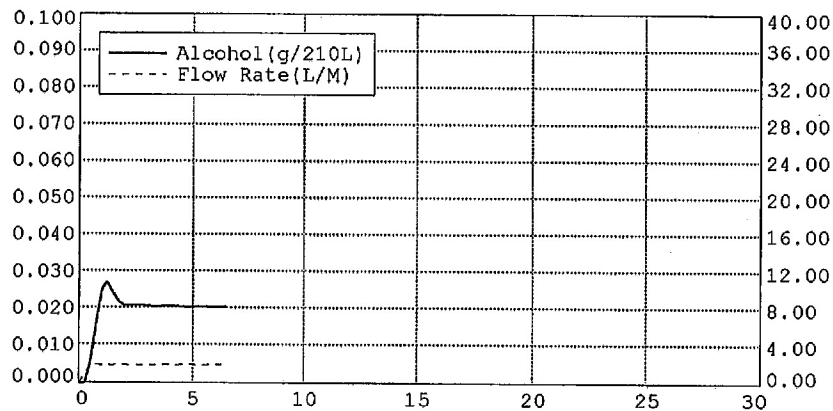
LOT #: 15210020A1

EXPIRATION: 07/01/2012

BLANK TEST	0.000	15:10
INTERNAL STANDARD	VERIFIED	15:10
EXTERNAL STANDARD	0.021	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.021	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.021	15:13
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.020	15:14
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.021	15:15
BLANK TEST	0.000	15:16

Average = 0.0213

Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100668

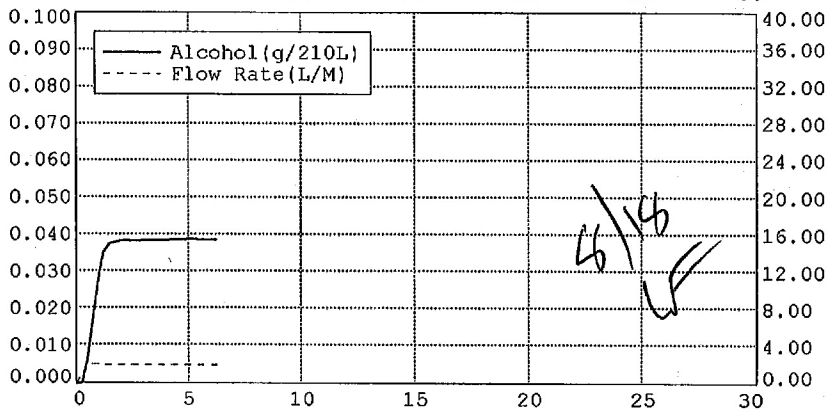
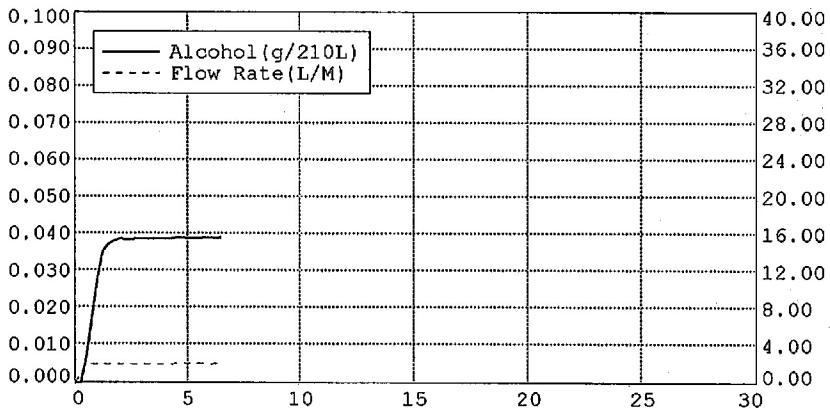
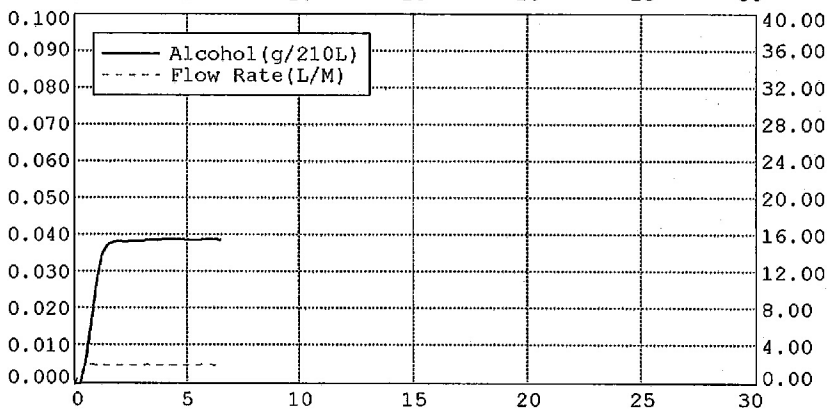
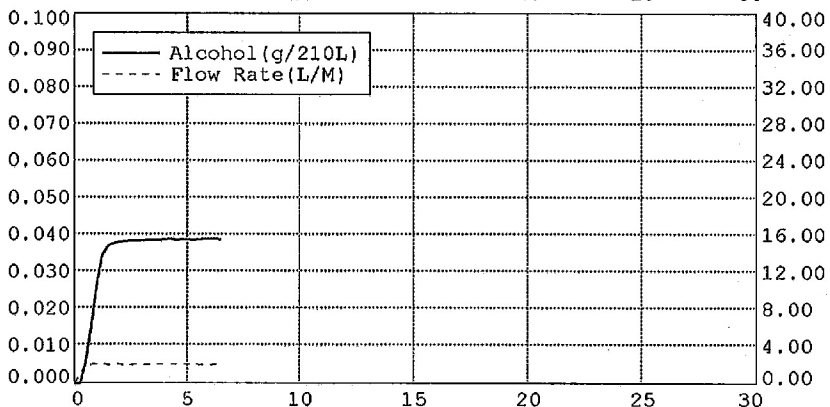
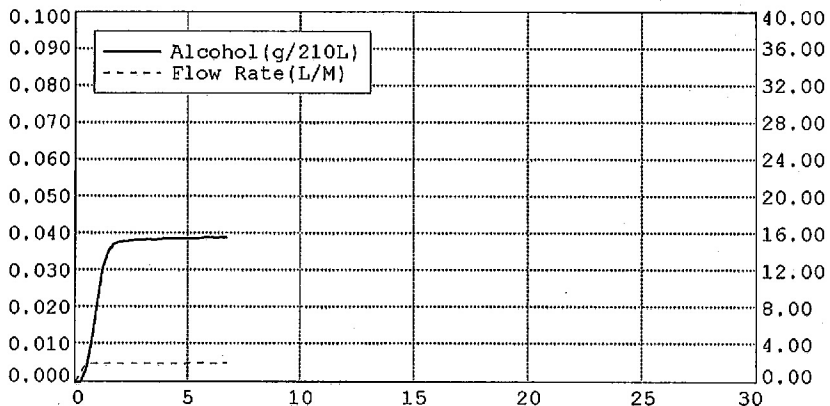
Date: 02/28/2012
Time: 15:19:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.48: 0.039
LOT #: 15210040A2
EXPIRATION: 07/01/2012

BLANK TEST	0.000	15:21
INTERNAL STANDARD	VERIFIED	15:21
EXTERNAL STANDARD	0.039	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.039	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.039	15:23
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.039	15:24
BLANK TEST	0.000	15:25
EXTERNAL STANDARD	0.039	15:25
BLANK TEST	0.000	15:26

Average = 0.0397
Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100668

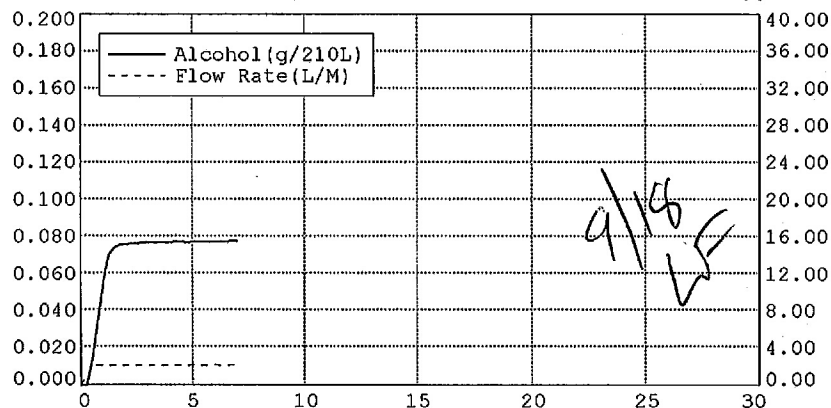
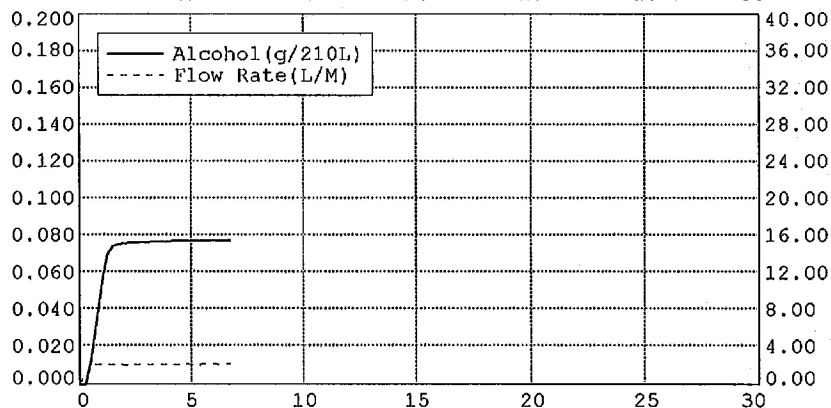
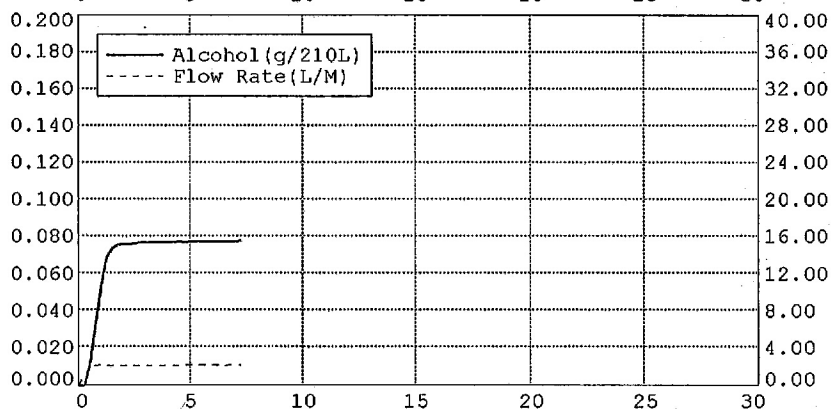
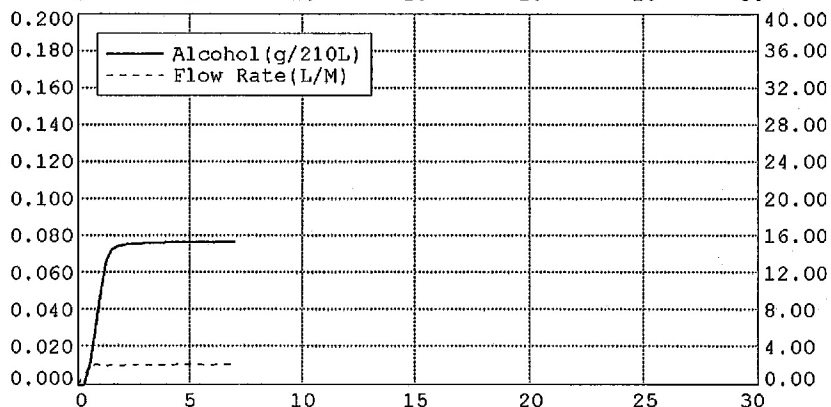
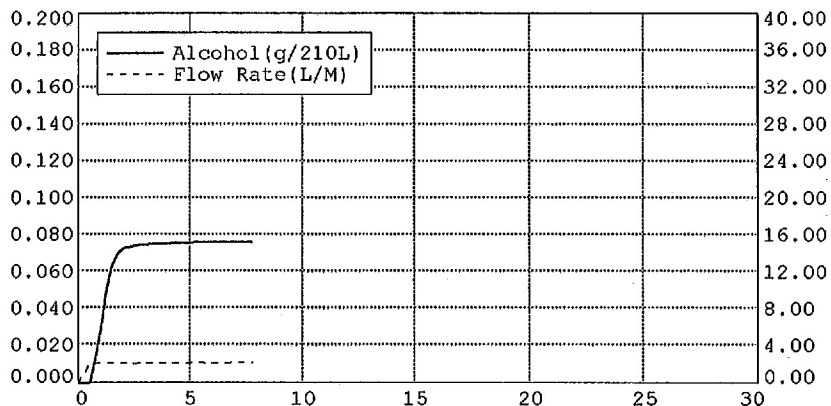
Date: 02/28/2012
Time: 15:52:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOT #: 02511080A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	15:53
INTERNAL STANDARD	VERIFIED	15:53
EXTERNAL STANDARD	0.077	15:53
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.077	15:54
BLANK TEST	0.000	15:55
EXTERNAL STANDARD	0.078	15:55
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.077	15:56
BLANK TEST	0.000	15:57
EXTERNAL STANDARD	0.078	15:58
BLANK TEST	0.000	15:58

Average = 0.0780
Std Dev = 0.0006



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100668

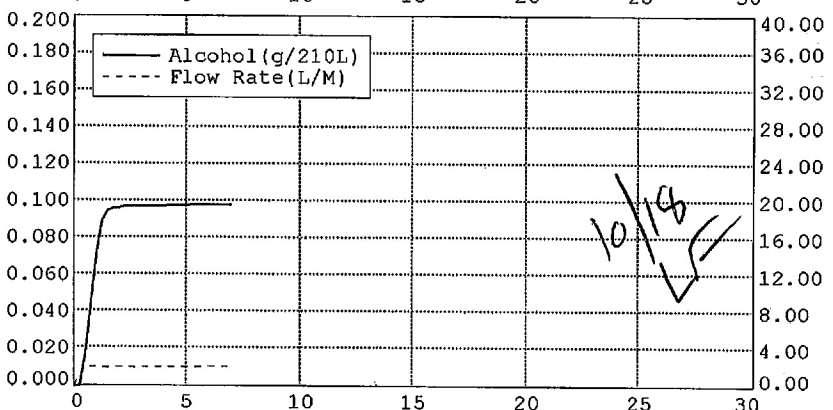
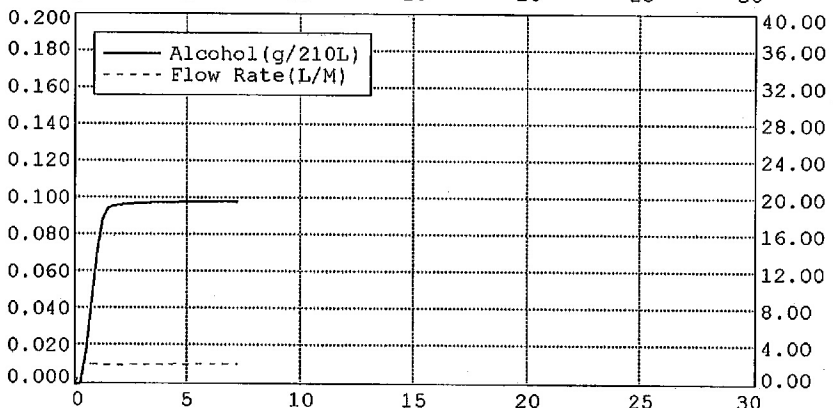
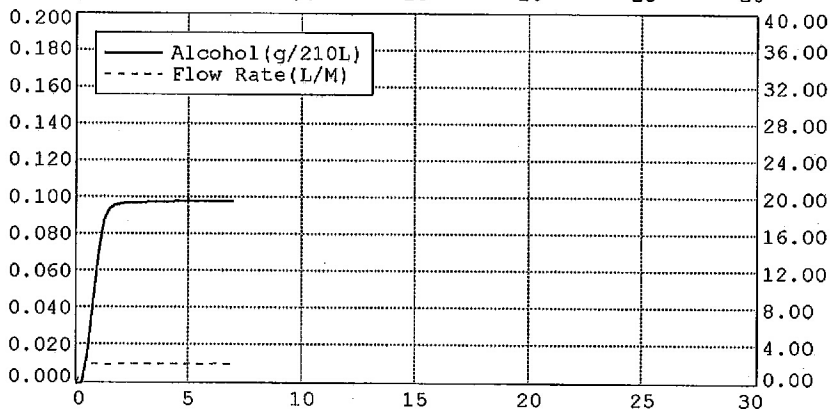
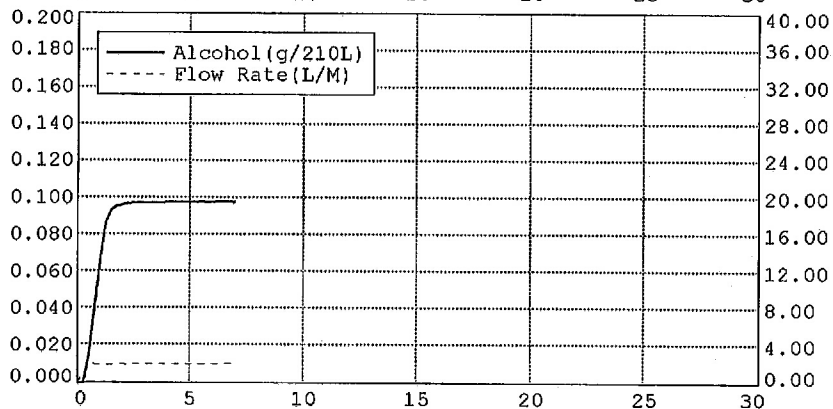
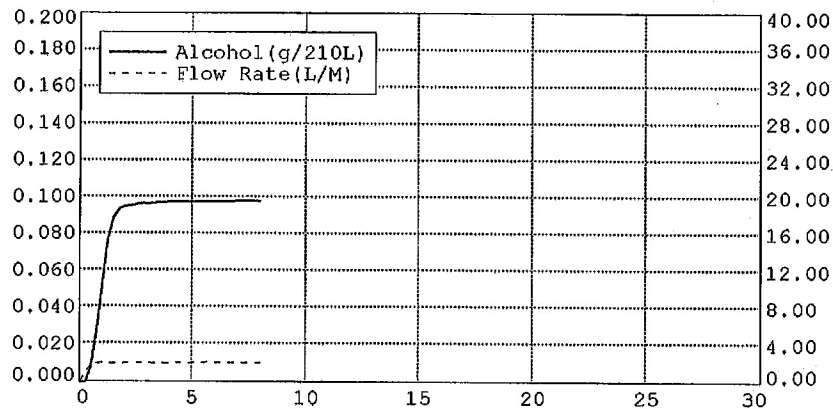
Date: 02/28/2012
Time: 16:01:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.49: 0.098
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	16:03
INTERNAL STANDARD	VERIFIED	16:03
EXTERNAL STANDARD	0.098	16:03
BLANK TEST	0.000	16:04
EXTERNAL STANDARD	0.098	16:04
BLANK TEST	0.000	16:05
EXTERNAL STANDARD	0.099	16:05
BLANK TEST	0.000	16:06
EXTERNAL STANDARD	0.098	16:06
BLANK TEST	0.000	16:07
EXTERNAL STANDARD	0.098	16:08
BLANK TEST	0.000	16:08

Average = 0.0987
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100668

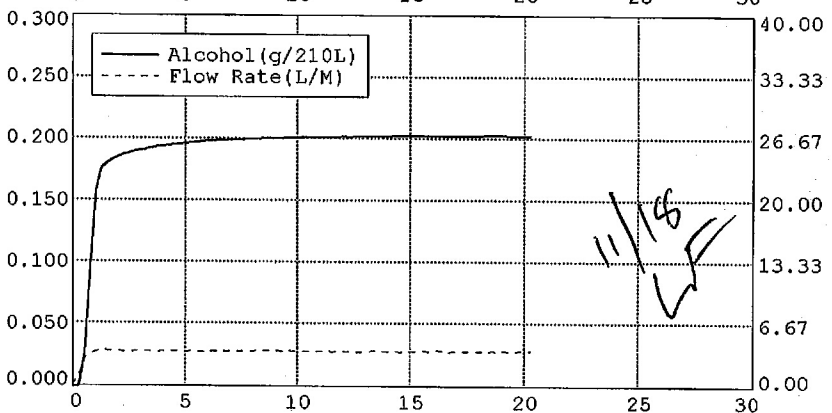
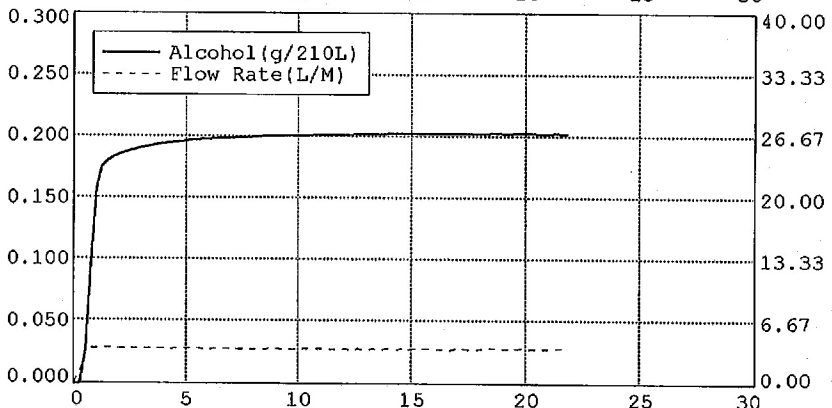
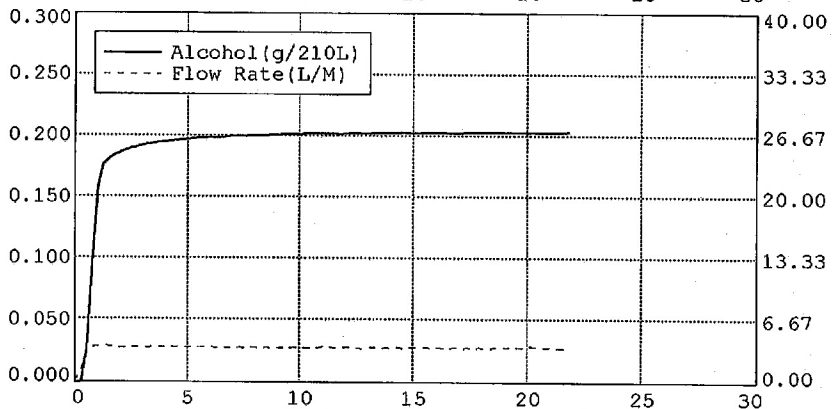
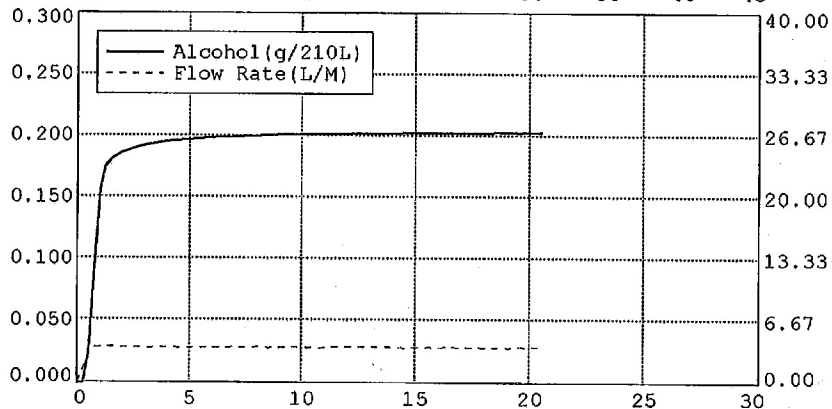
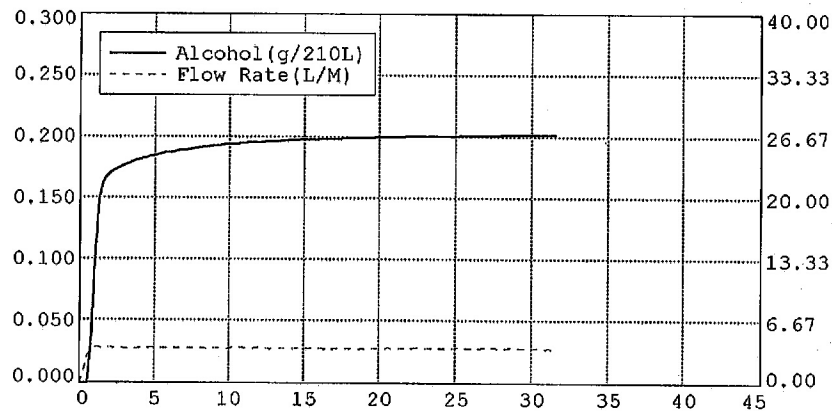
Date: 02/28/2012
Time: 16:12:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

BLANK TEST	0.000	16:13
INTERNAL STANDARD	VERIFIED	16:13
EXTERNAL STANDARD	0.202	16:14
BLANK TEST	0.000	16:15
EXTERNAL STANDARD	0.203	16:15
BLANK TEST	0.000	16:16
EXTERNAL STANDARD	0.204	16:17
BLANK TEST	0.000	16:18
EXTERNAL STANDARD	0.203	16:18
BLANK TEST	0.000	16:19
EXTERNAL STANDARD	0.203	16:20
BLANK TEST	0.000	16:20

Average = 0.2036
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100668

Date: 02/28/2012

Time: 16:33:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300

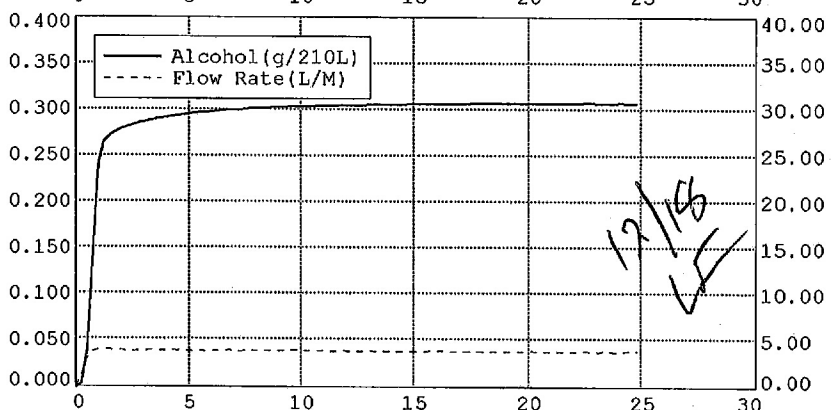
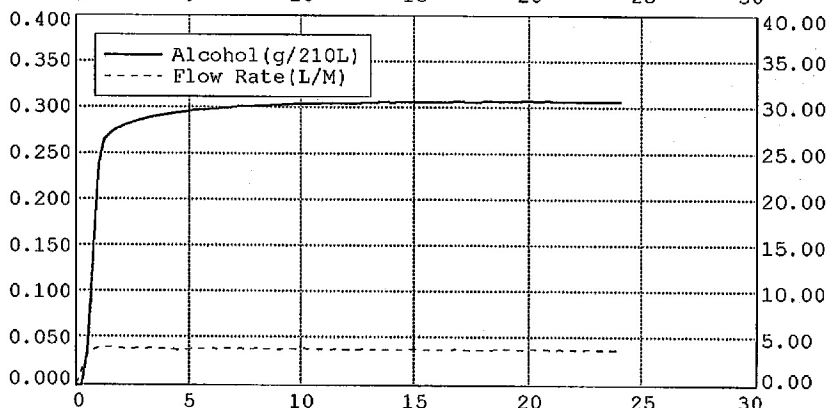
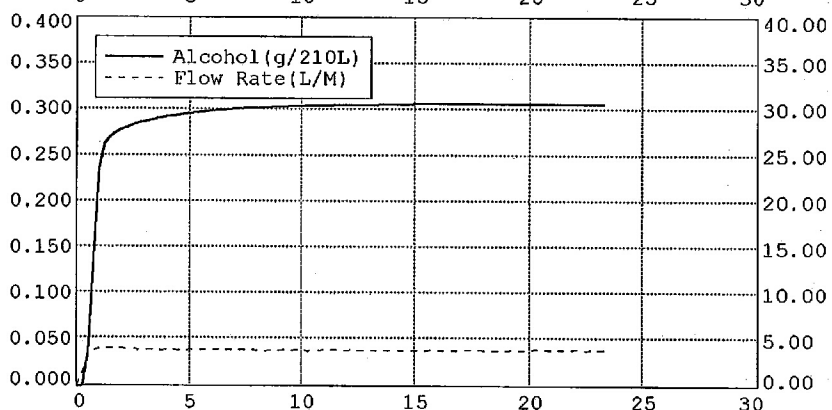
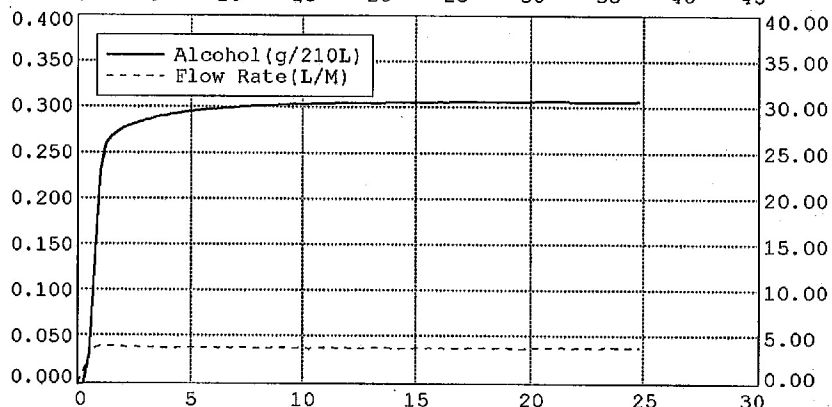
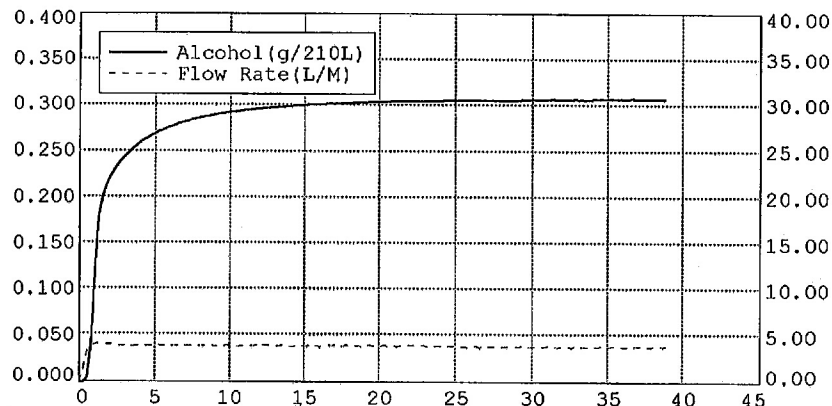
LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	16:34
INTERNAL STANDARD	VERIFIED	16:34
EXTERNAL STANDARD	0.307	16:35
BLANK TEST	0.000	16:36
EXTERNAL STANDARD	0.306	16:37
BLANK TEST	0.000	16:38
EXTERNAL STANDARD	0.306	16:38
BLANK TEST	0.000	16:39
EXTERNAL STANDARD	0.307	16:40
BLANK TEST	0.000	16:41
EXTERNAL STANDARD	0.306	16:41
BLANK TEST	0.000	16:42

Average = 0.3069

Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100668

Date: 02/29/2012
 Time: 13:04:08

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

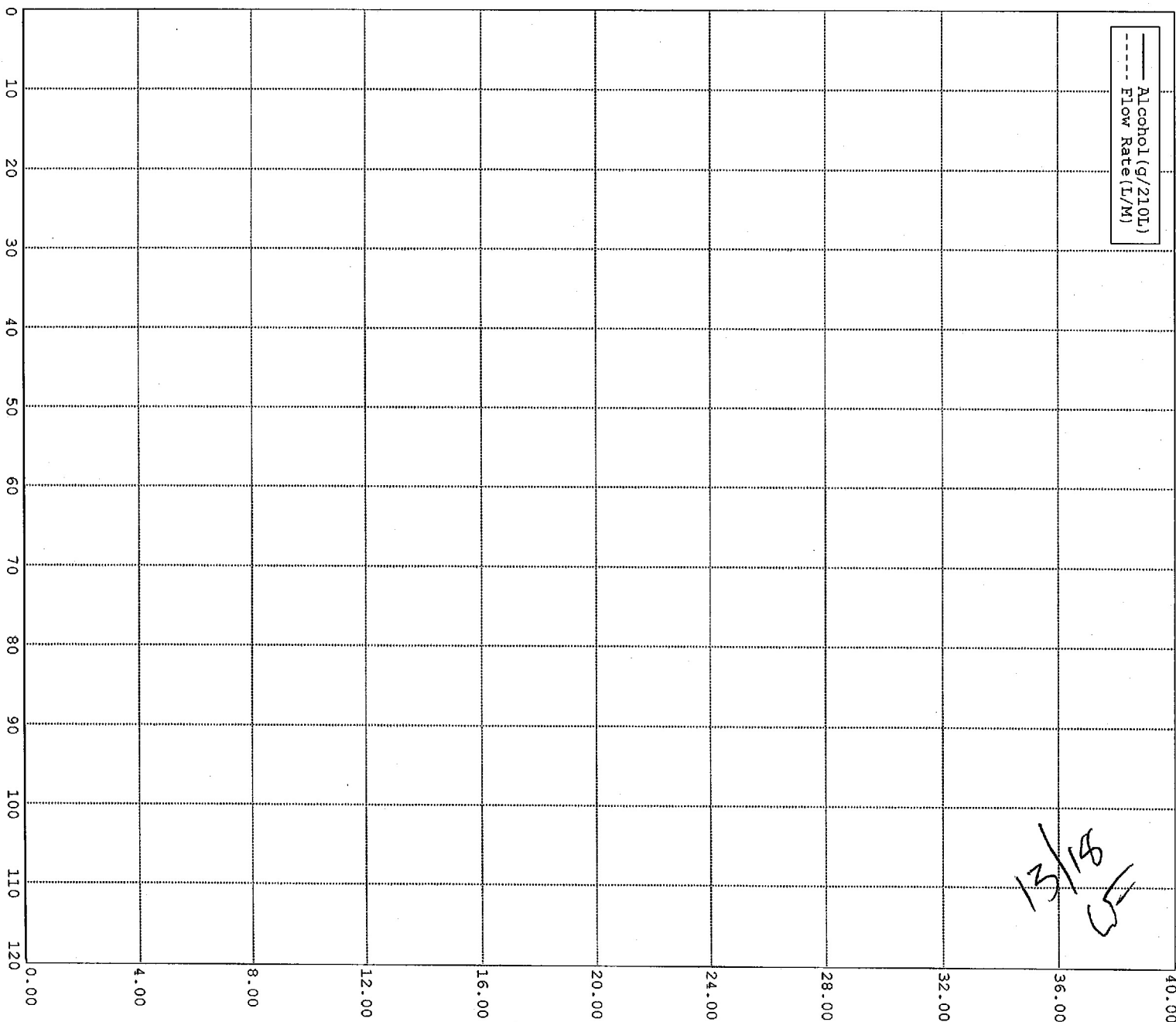
OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.48: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:05
BLANK TEST	0.000	13:05
INTERNAL STANDARD	VERIFIED	13:05
EXTERNAL STANDARD	0.077	13:05
BLANK TEST	0.000	13:06
SUBJECT SAMPLE	INCOMPLETE	13:08

CCF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100668

Date: 02/29/2012
Time: 13:18:24

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

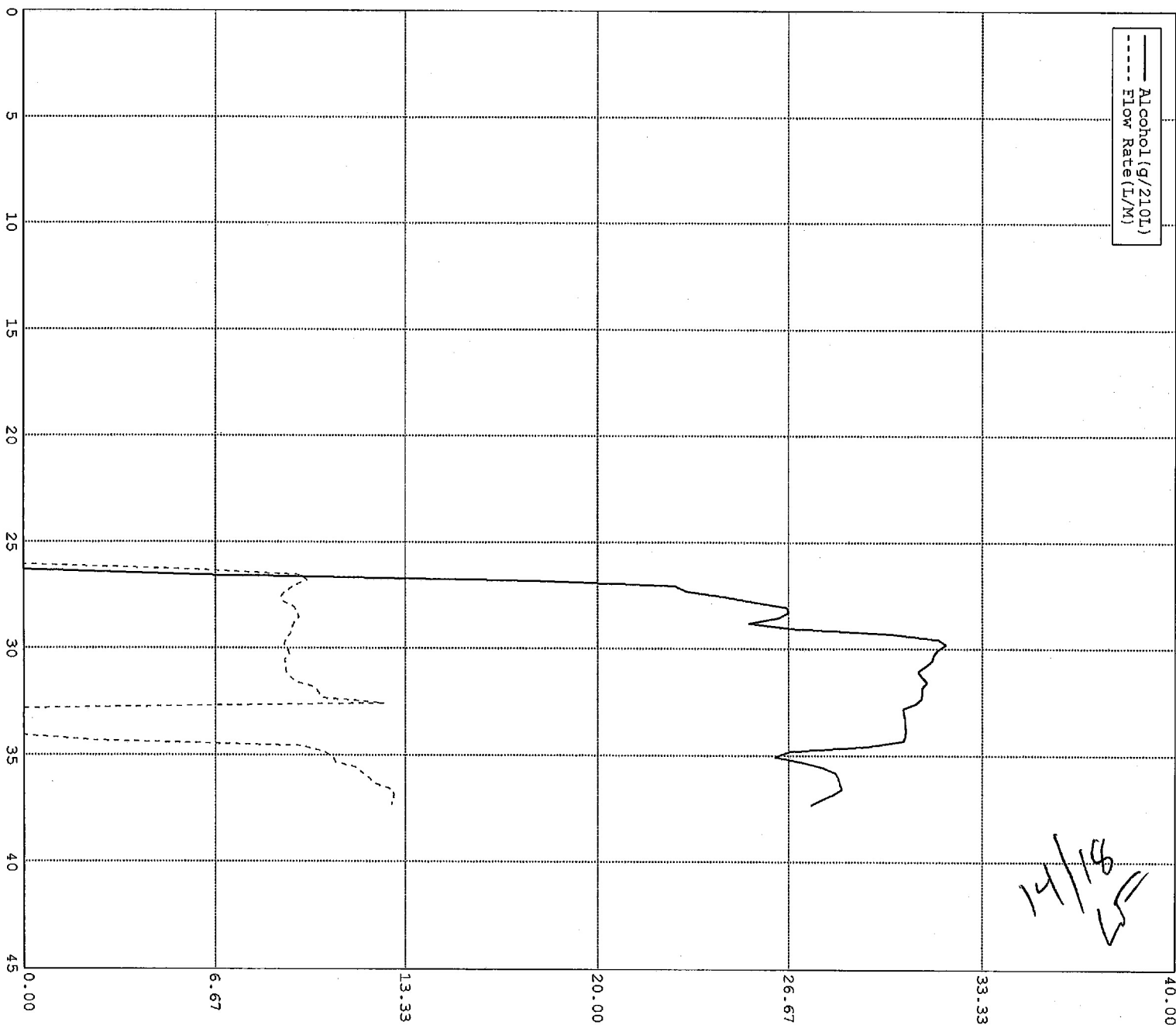
OPERATOR NAME:
INVALID MOUTH ETOH
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOT #: 02511080A1
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:20
BLANK TEST	0.000	13:20
INTERNAL STANDARD	VERIFIED	13:20
EXTERNAL STANDARD	0.077	13:20
BLANK TEST	0.000	13:21
SUBJECT SAMPLE	INVALID	13:22

CRF



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100668

Date: 02/29/2012
 Time: 14:30:30

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

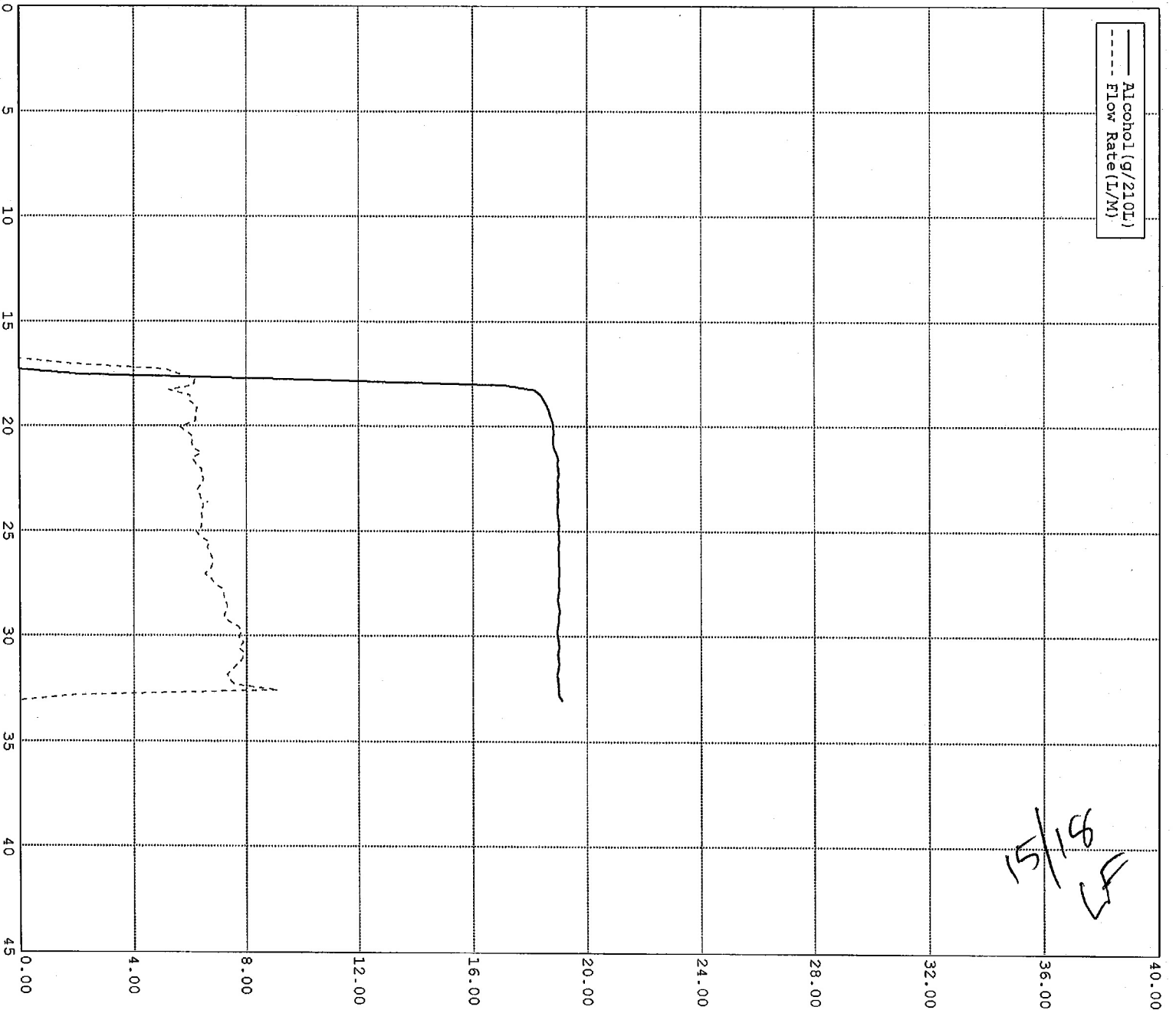
OPERATOR NAME:
 INTERFERENCE ETOH AND ACETONE
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.47: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:33
BLANK TEST	0.000	14:33
INTERNAL STANDARD	VERIFIED	14:33
EXTERNAL STANDARD	0.077	14:33
BLANK TEST	0.000	14:34
SUBJECT SAMPLE	INTERFERENCE	14:35

CRF



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100668

Date: 02/29/2012
 Time: 14:47:11

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

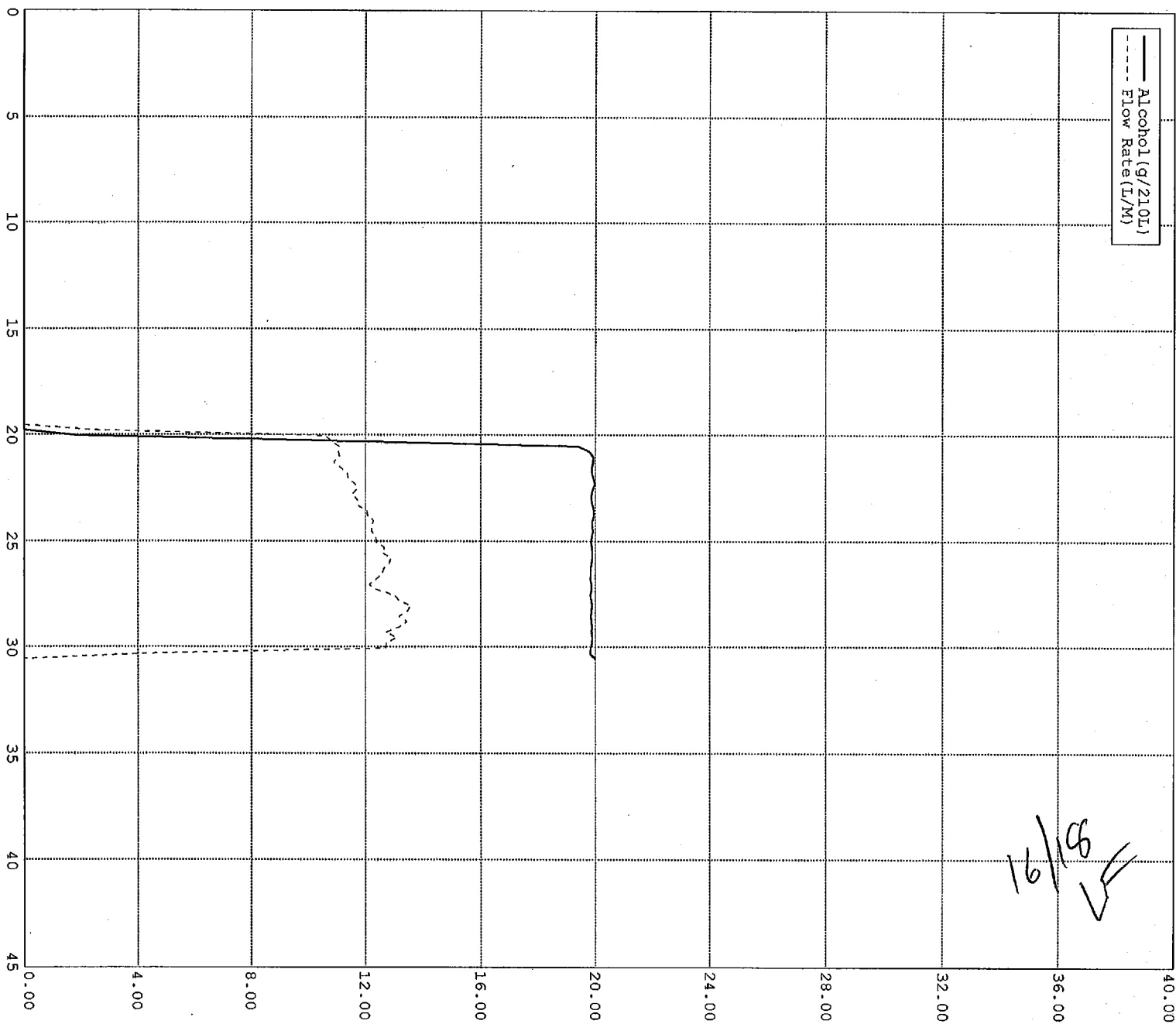
OPERATOR NAME:
 INTERFERENCE ETOH AND IPA
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.46: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:48
BLANK TEST	0.000	14:48
INTERNAL STANDARD	VERIFIED	14:48
EXTERNAL STANDARD	0.078	14:49
BLANK TEST	0.000	14:50
SUBJECT SAMPLE	INTERFERENCE	14:50

CRT



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100668

Date: 02/29/2012
Time: 14:57:55

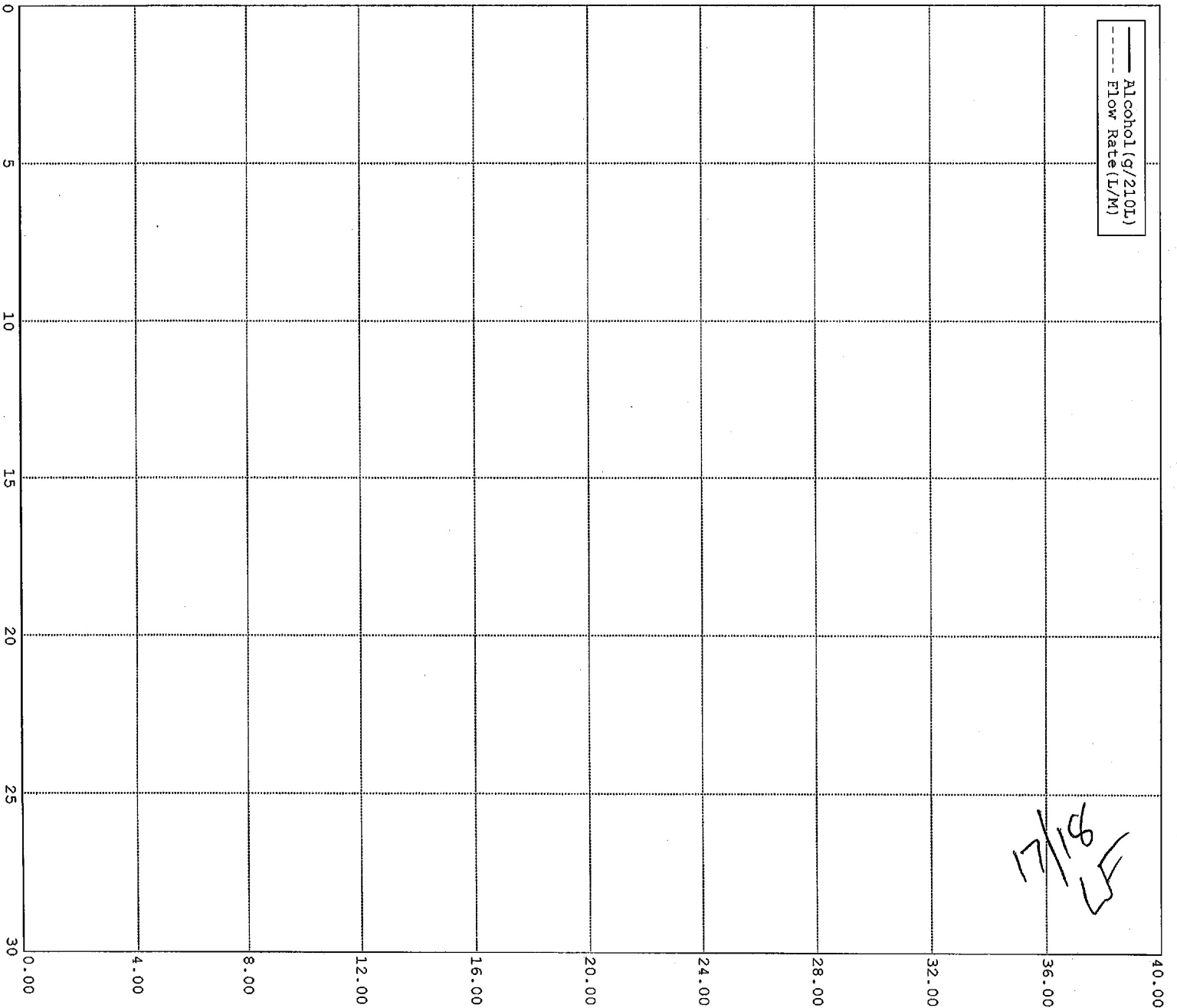
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.47: 0.078
LOT #: 02511080A1
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK
BLANK TEST PASSED 14:58
INTERNAL STANDARD VERIFIED 14:59
EXTERNAL STANDARD VERIFIED 14:59
BLANK TEST 0.078 14:59
RFI DETECTED 0.000 15:00



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100668

Date: 02/29/2012
 Time: 16:11:08

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

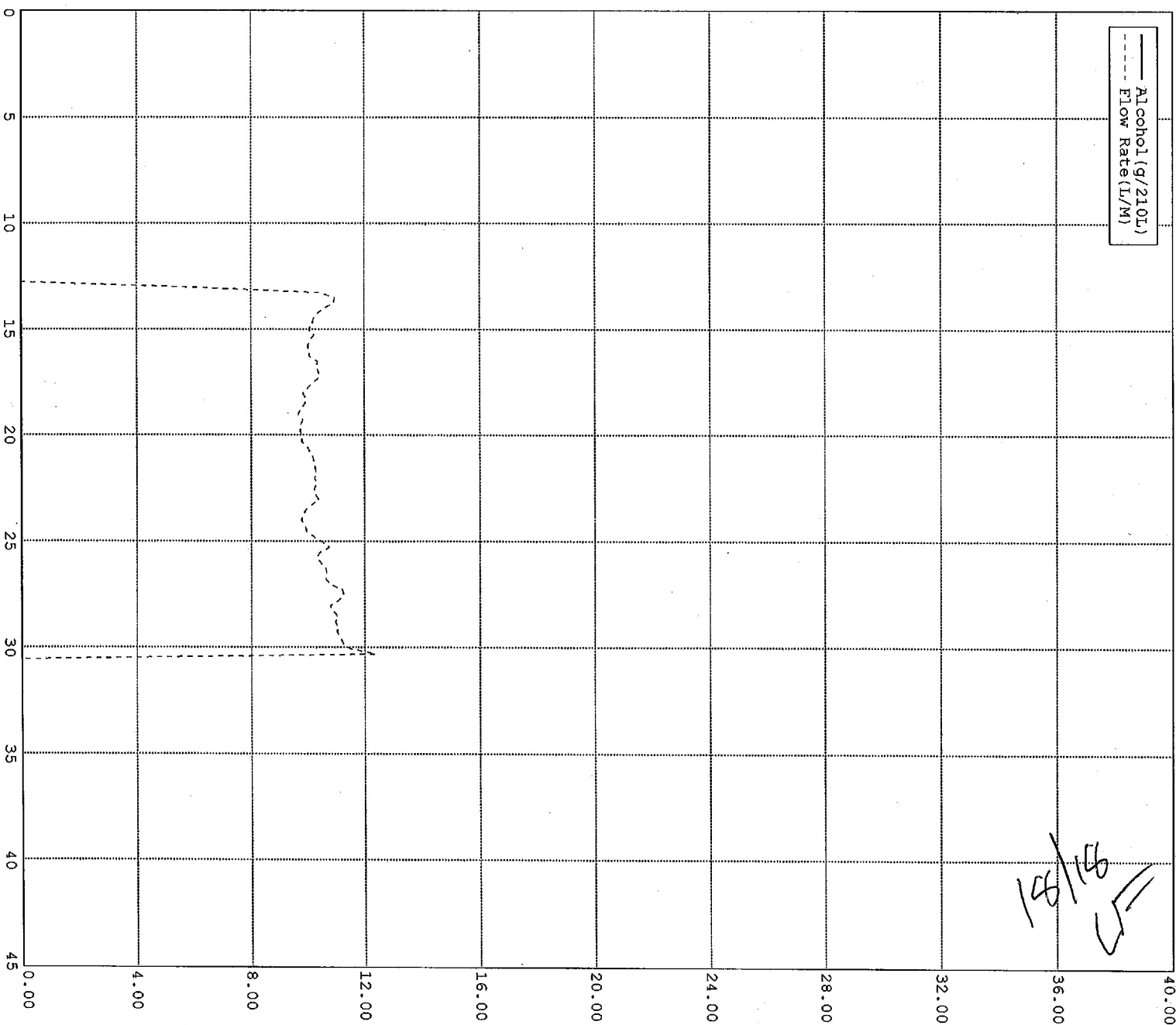
OPERATOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.49: 0.078
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	16:13
BLANK TEST	0.000	16:13
INTERNAL STANDARD	VERIFIED	16:13
EXTERNAL STANDARD	0.078	16:14
BLANK TEST	0.000	16:15
SUBJECT SAMPLE	0.000	16:15
BLANK TEST	0.000	16:16
EXTERNAL STANDARD	0.078	16:16
BLANK TEST	0.000	16:17

CRF



Final page for report

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