

	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form – DMCEF2011R1		
	Issuing Authority – Nita Bolz, Scientific Director		
Approval date: 03/10/11		Effective date: 03/10/11	Archive date: Active

DataMaster DMT Certification Form

Instrument # 100421Analyst CRFDate 10/10/11

1. Diagnostic Test (attached)

2. Voltage Checks

a. Adjust voltages, if needed ☒

i. Lamp

ii. Bias

iii. Cooler

iv. Chopper Frequency

b. Set RFI ☒c. Adjust barometer reading, if needed ☒d. Adjust volume setting, if needed ☒

e. Print Technician Screen (attached)

3. Print Calibration Factors (attached)

4. Volume Test - Minimum 1500 mL ☒

5. Dry Gas Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 15210020A1 Exp 7/1/12ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/13iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 3/1/13iv. 0.100g/210L Mnf ILMO Lot 07611500A3 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 07611200A2 Exp 3/1/13vi. 0.300g/210L Mnf ILMO Lot 07611300A1 Exp 3/1/13

6. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/121. Simulator Calibration Date 12/15/10 SN DR4176ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/121. Simulator Calibration Date 12/16/10 SN SD1198d. RFI ☒7. Calibrate Stylus ☒8. Verify card reader is functional ☒9. Upload ☒10. Reset Options ☒

11. Non-Drinking Subject Test (attached)

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CRF

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 10/10/2011
Time: 13:39:19

VERSIONS

DMT: 1.01
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 47.9°C	PASSED

PUMP INFO

Flow Rate = 5.436 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

INTERNAL STANDARD	PASSED
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CRF

Technician Screen

Joint Base Elmendorf - Richardson
DATAMASTER dmt: 100421

Date: 10/10/2011
Time: 1:54 PM

Temperatures (°C)
Sample Cell: 49.0°C
Breath Tube: 46.4°C

Current Barometer 29.4 in
Volume (Ltr) 1.52

Settings
Lamp: 1.69 V
Bias: 78 V
Cooler: 1.65 V
Chopper: 525 Hz

Voltages (V)
Flow: 1.07 V
Detector: -0.057 V

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CMF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 07/28/2011
Time: 14:46:11

SUPERVISOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

LOT #: 11050
BOTTLE #: 705
EXPIRATION: 04/06/2013

Ca = 0.1000
CAL = 1.000419 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0027 0.0010 <= b2 < 0.0100
b3 = 0.0007 0.0000 <= b3 < 0.0040
Xq = 0.1013 0.0500 <= Xq < 0.2000
a21 = 1.117763 1.050 <= a21 < 1.300
a31 = 0.453616 0.300 <= a31 < 0.800

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CRF

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 10/10/2011
Time: 14:06:52

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

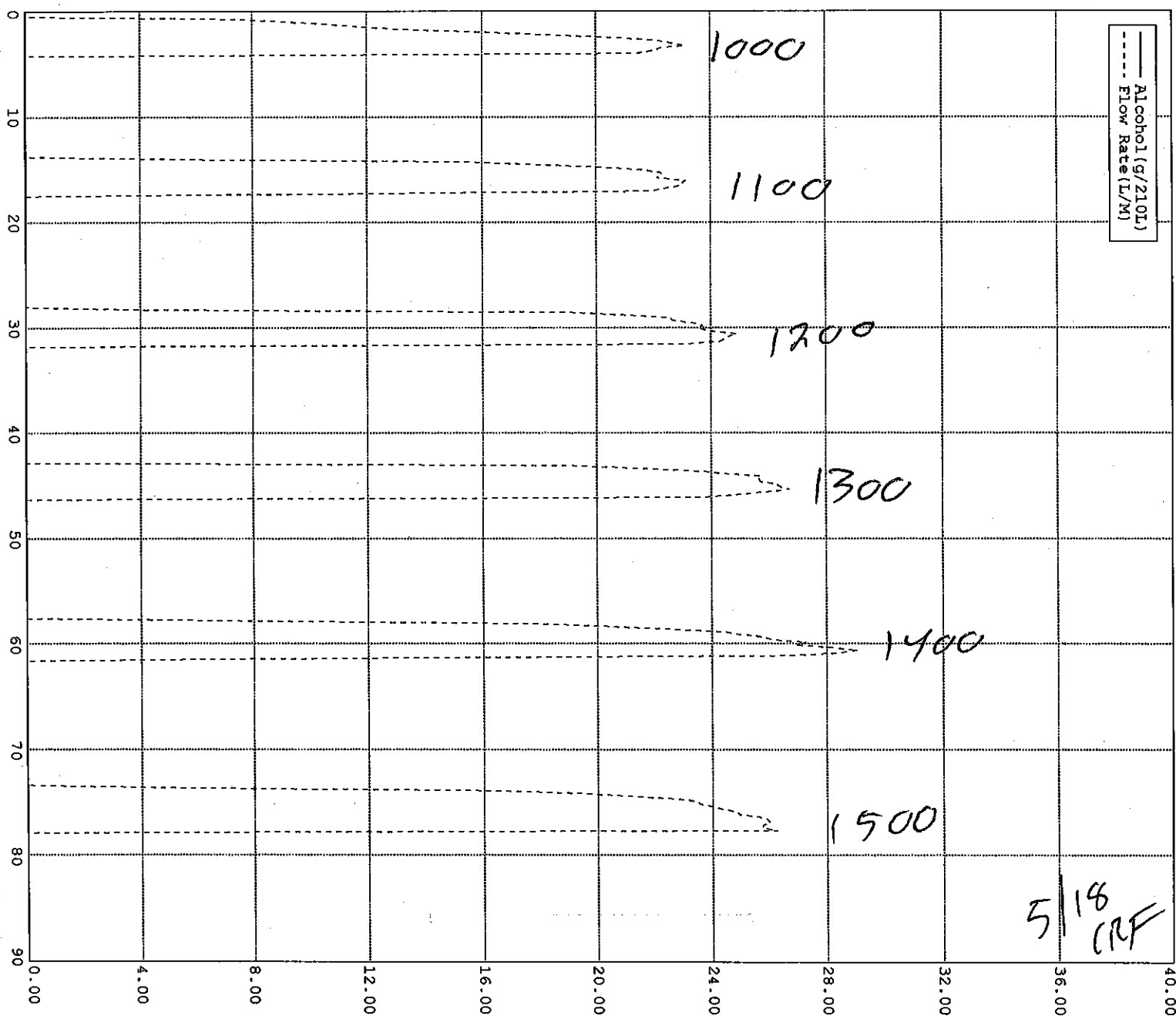
OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

TEST TYPE	PASSED	TIME
DIAGNOSTIC CHECK	0.000	14:08
BLANK TEST	0.000	14:08
INTERNAL STANDARD	0.079	14:08
EXTERNAL STANDARD	0.000	14:09
BLANK TEST	0.000	14:10
SUBJECT SAMPLE	0.000	14:11
BLANK TEST	0.080	14:11
EXTERNAL STANDARD	0.000	14:12
BLANK TEST	0.000	14:12

CRF



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100421

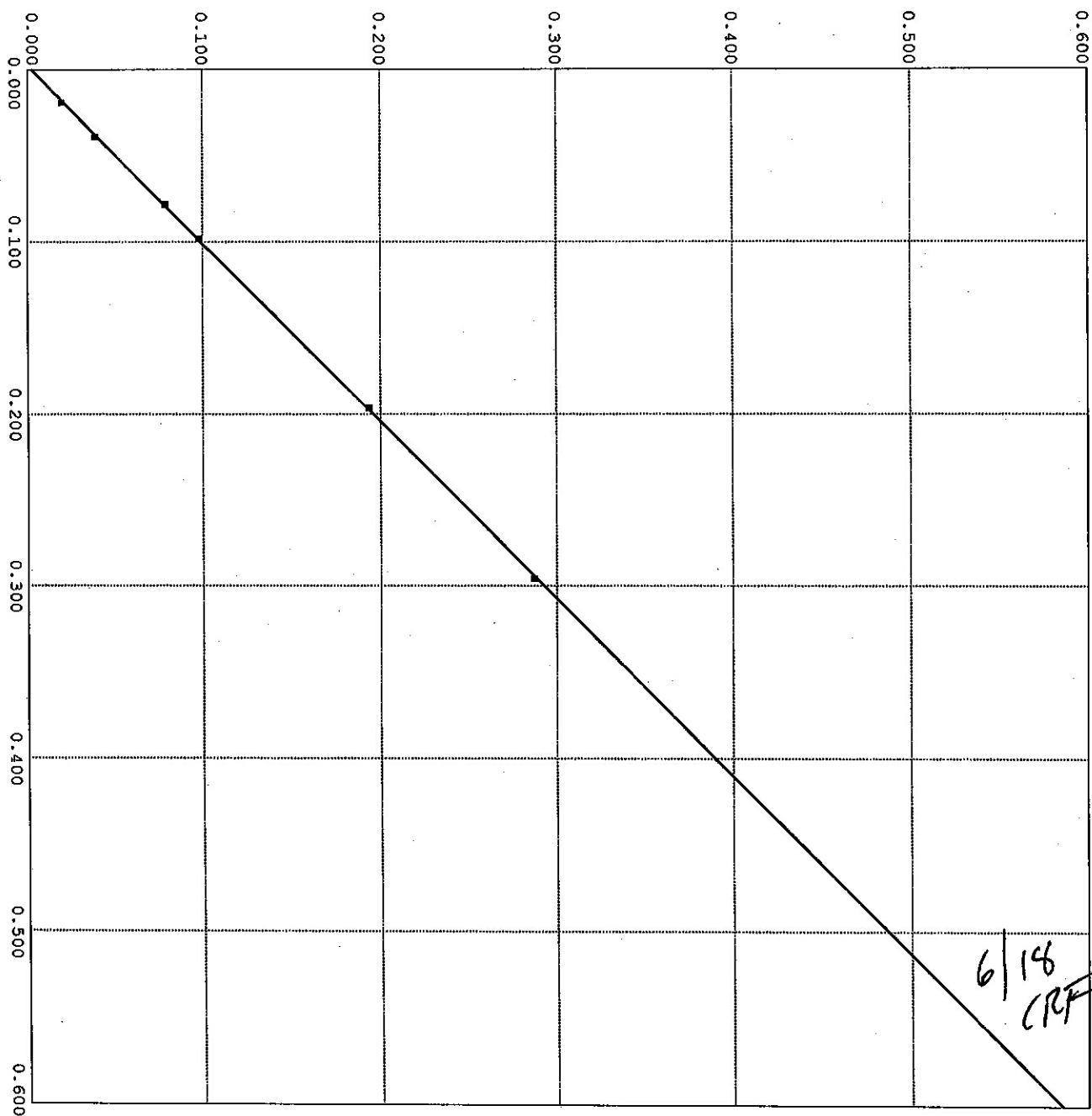
Date: 10/10/2011
Time: 14:19:07

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.039	0.0394	0.0005
0.078	0.0794	0.0005
0.098	0.0990	0.0000
0.196	0.1944	0.0005
0.295	0.2878	0.0004

SLOPE = 0.971274
 R^2 = 0.999917

CRF



LINEARITY CHECK: Control Test 1

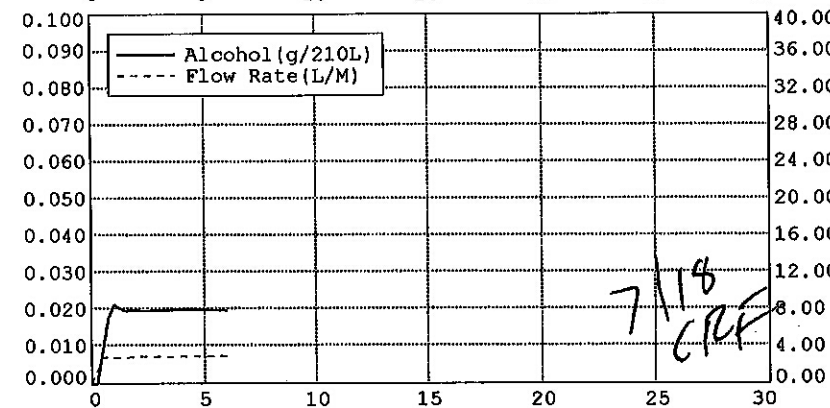
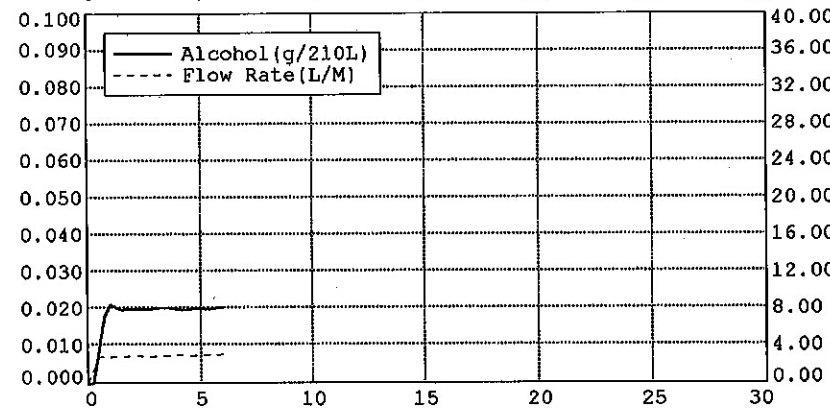
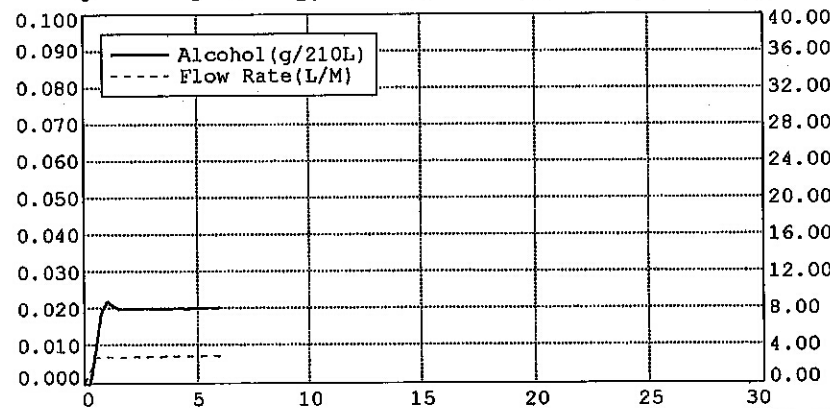
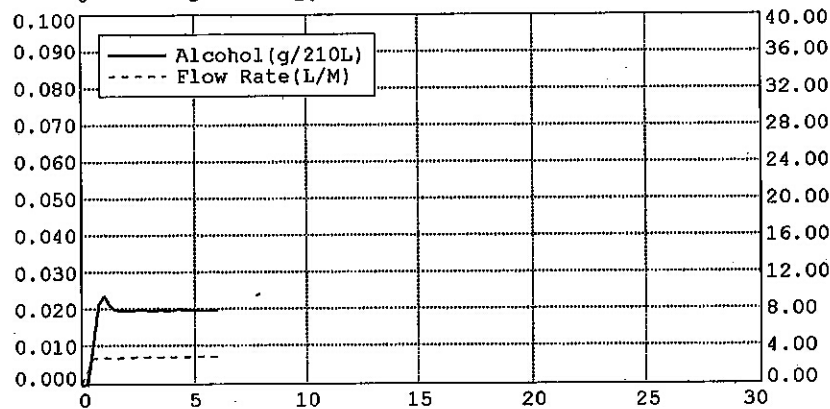
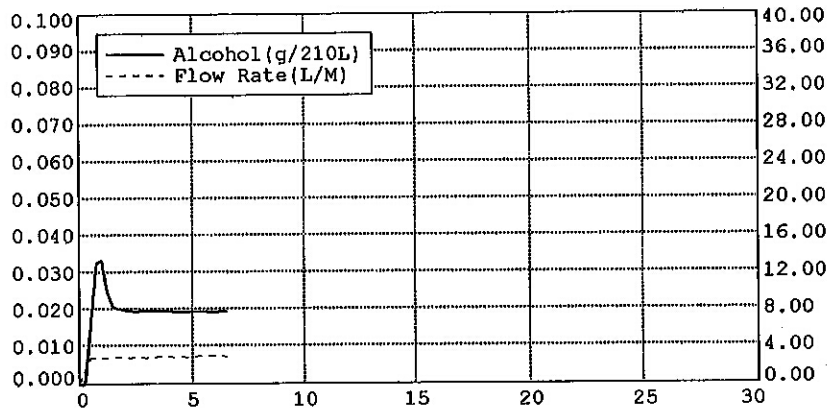
Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 10/10/2011
Time: 14:19:09

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.44: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
EXTERNAL STANDARD	0.020	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.020	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.020	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.020	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.020	14:25
BLANK TEST	0.000	14:25

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100421

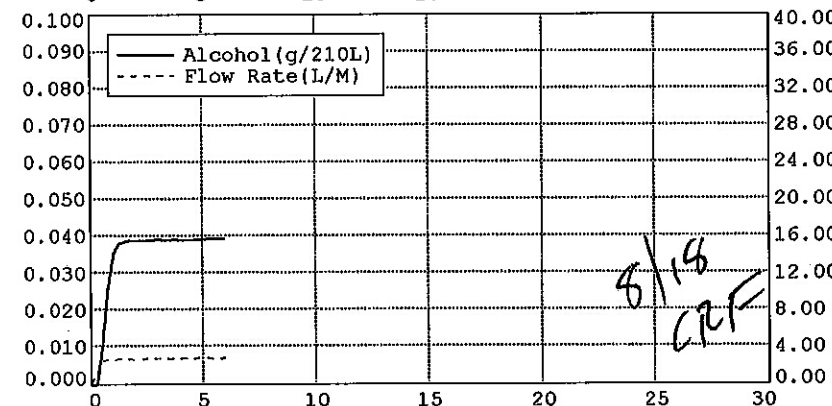
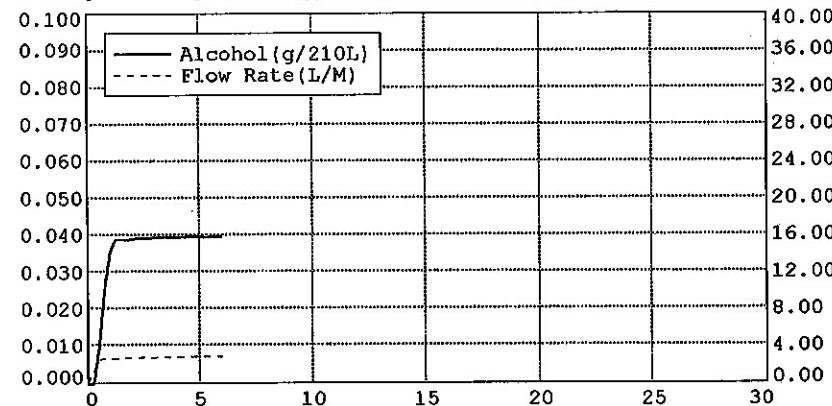
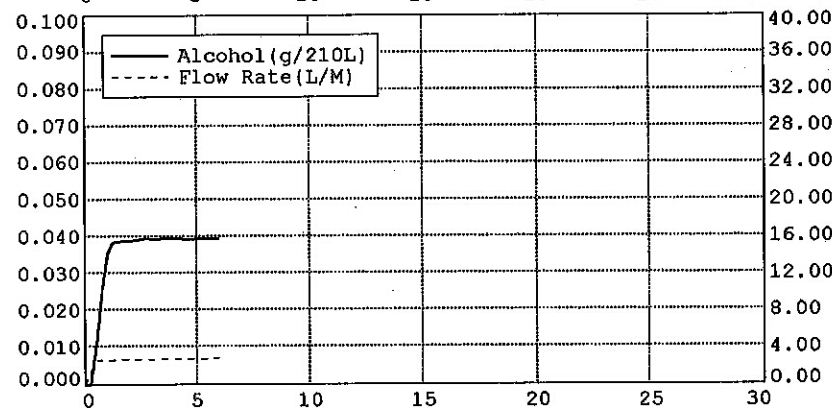
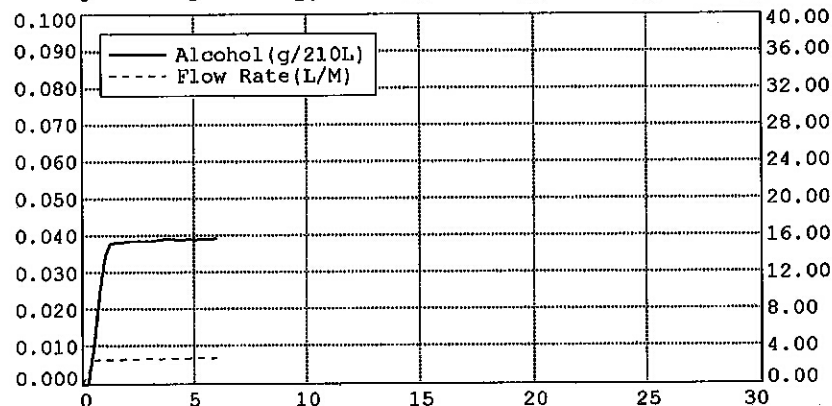
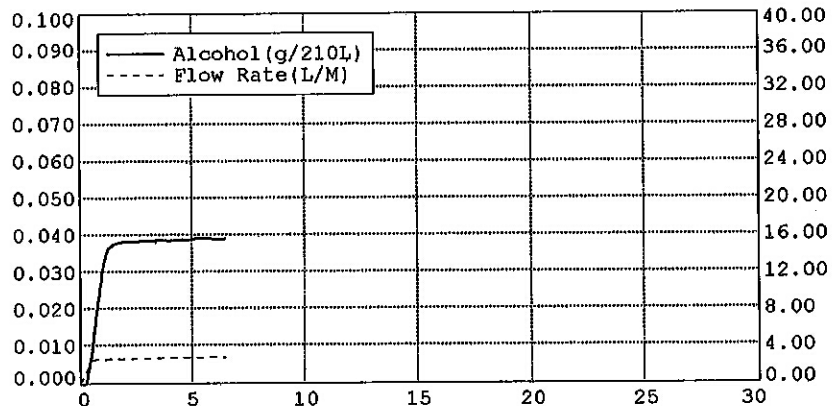
Date: 10/10/2011
Time: 14:27:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.44: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:28
INTERNAL STANDARD	VERIFIED	14:28
EXTERNAL STANDARD	0.039	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.039	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.040	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.040	14:32
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.039	14:33
BLANK TEST	0.000	14:34

Average = 0.0394
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

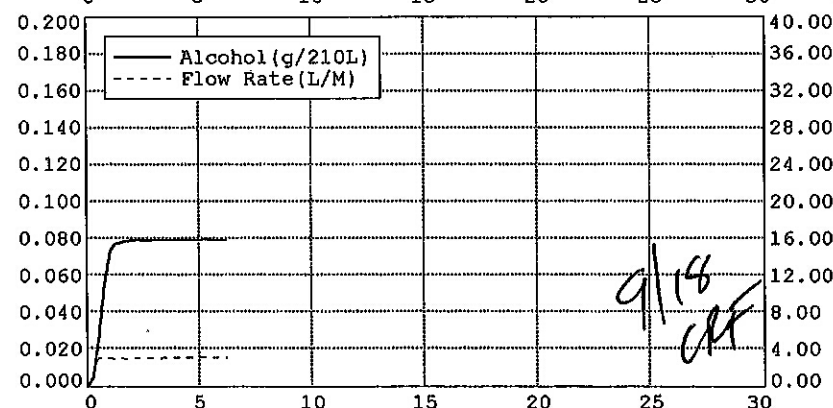
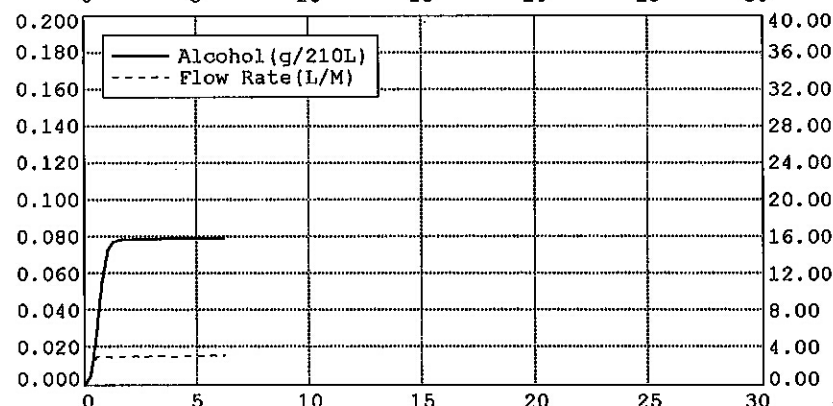
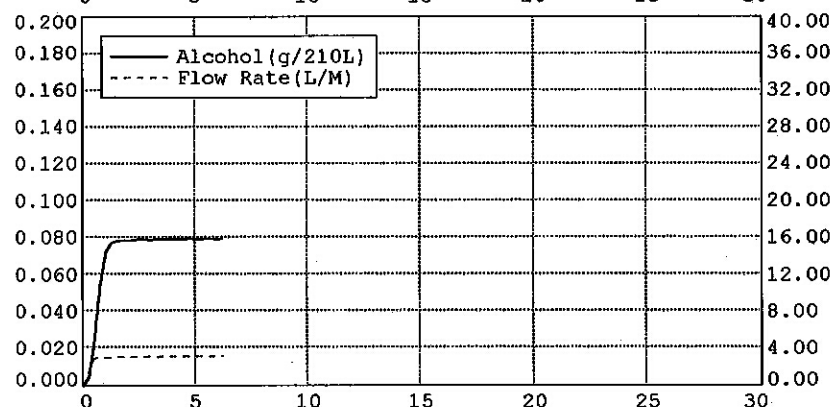
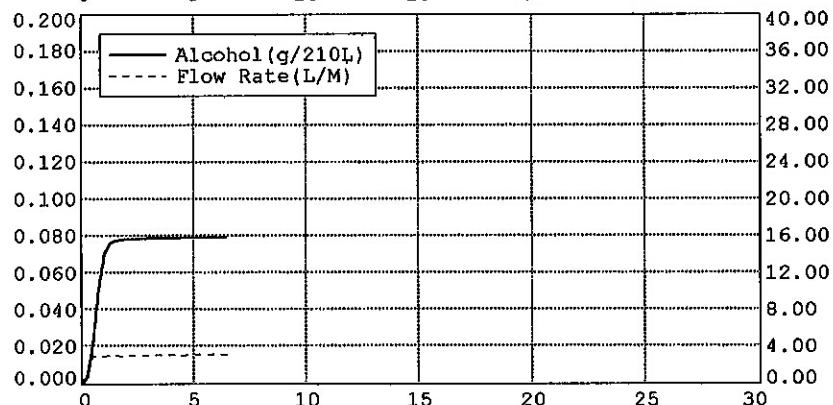
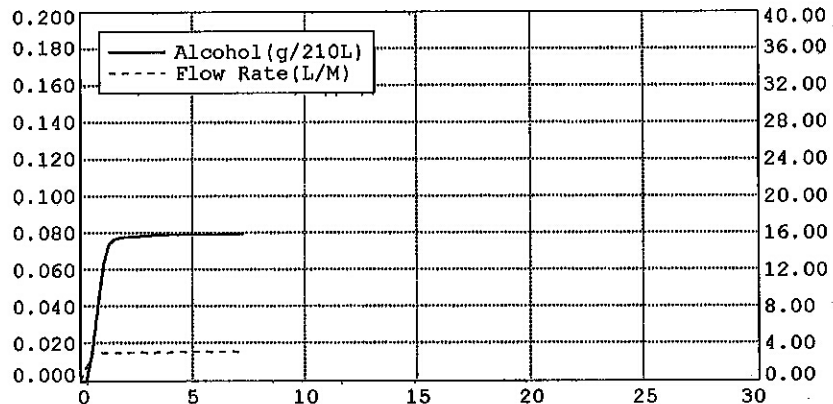
Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 10/10/2011
Time: 14:34:41

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.44: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:37
INTERNAL STANDARD	VERIFIED	14:37
EXTERNAL STANDARD	0.080	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.079	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.079	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.079	14:41
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.080	14:42
BLANK TEST	0.000	14:43

Average = 0.0794
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100421

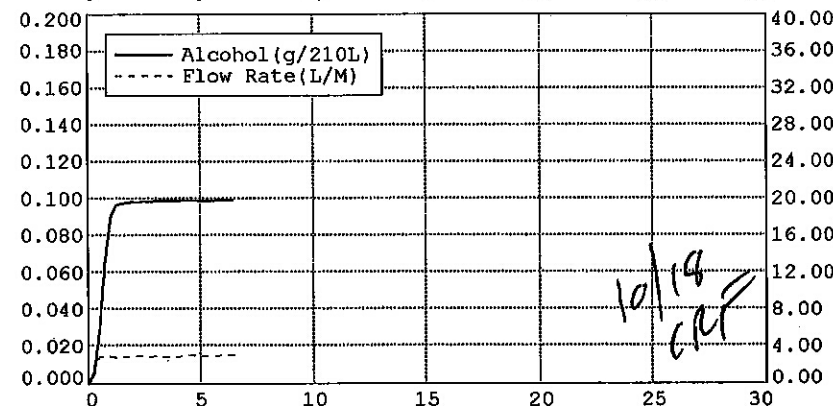
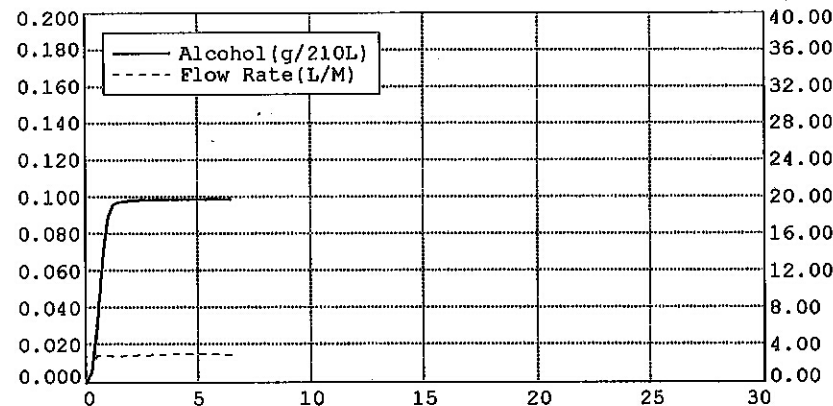
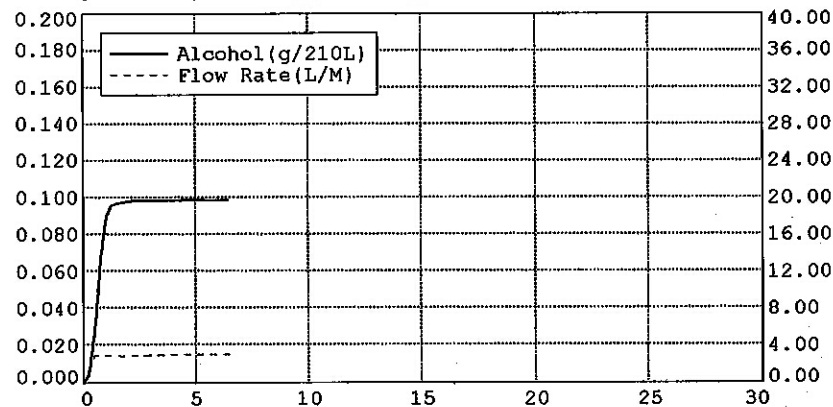
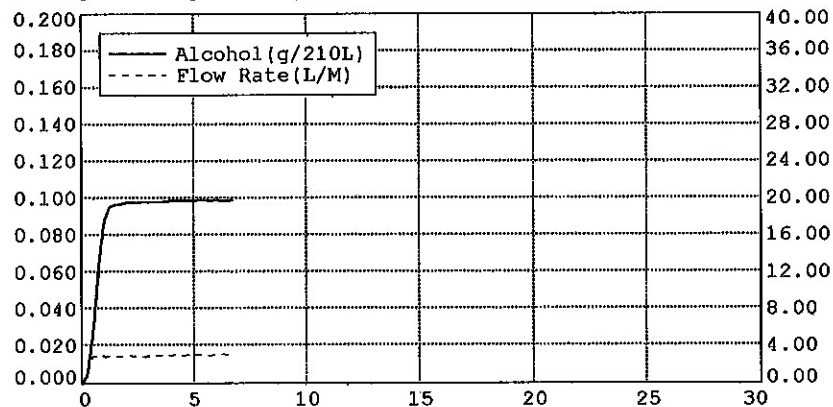
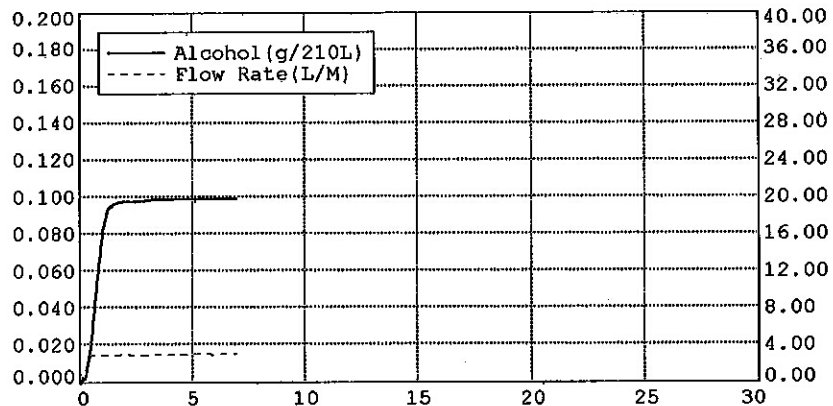
Date: 10/10/2011
Time: 14:44:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.44: 0.098
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:46
INTERNAL STANDARD	VERIFIED	14:46
EXTERNAL STANDARD	0.099	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.099	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.099	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.099	14:50
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.099	14:51
BLANK TEST	0.000	14:52

Average = 0.0990
Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100421

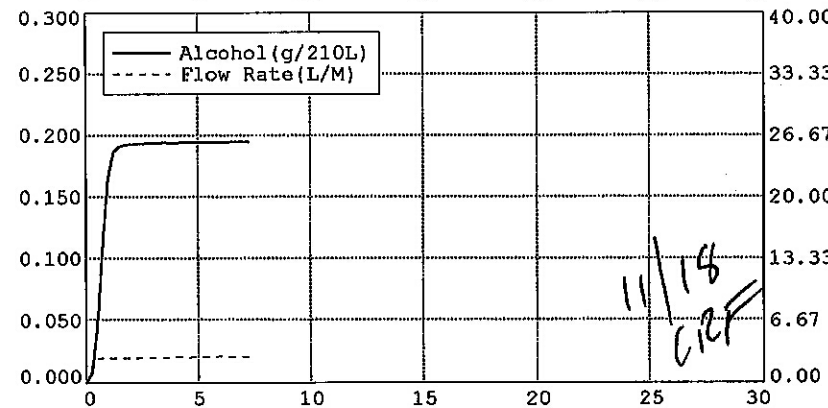
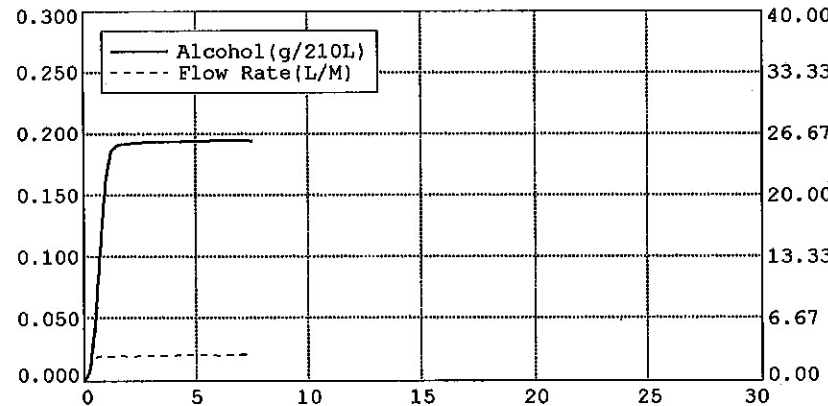
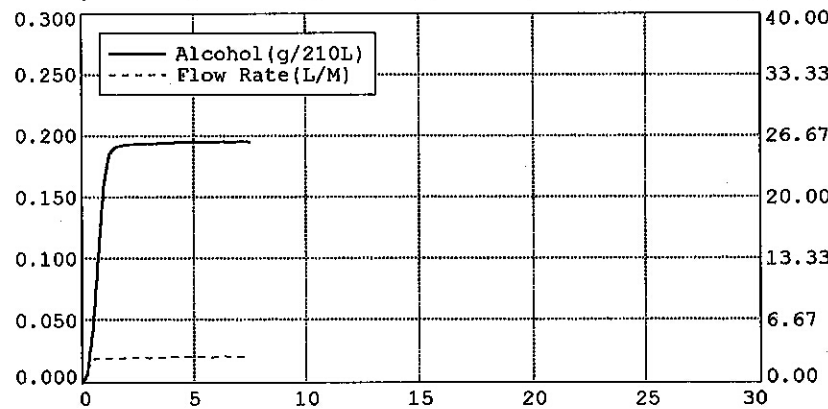
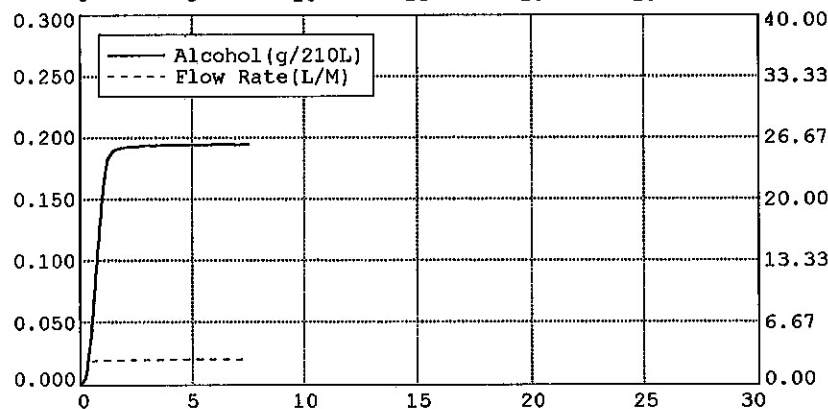
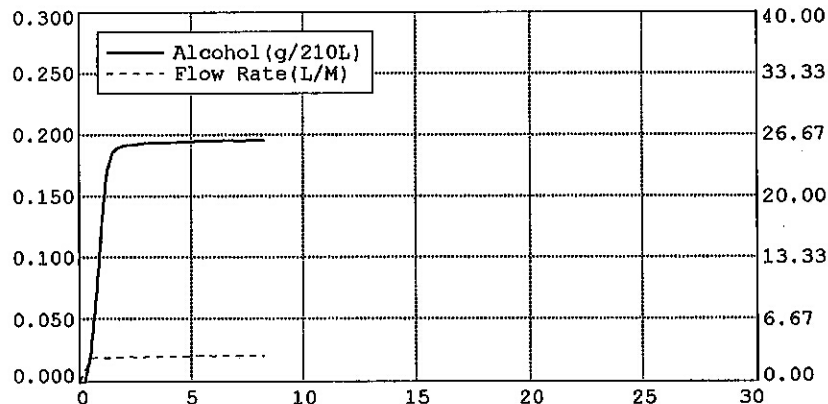
Date: 10/10/2011
Time: 14:53:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.44: 0.196
LOT #: 07611200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:54
INTERNAL STANDARD	VERIFIED	14:55
EXTERNAL STANDARD	0.195	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.194	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.195	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.194	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.194	14:59
BLANK TEST	0.000	15:00

Average = 0.1944
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100421

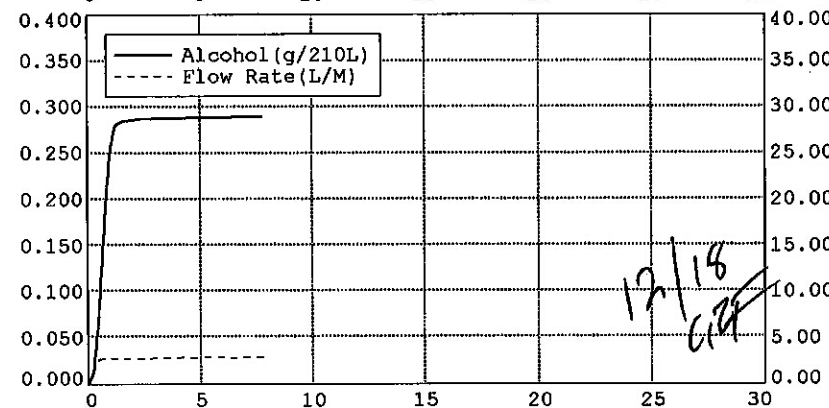
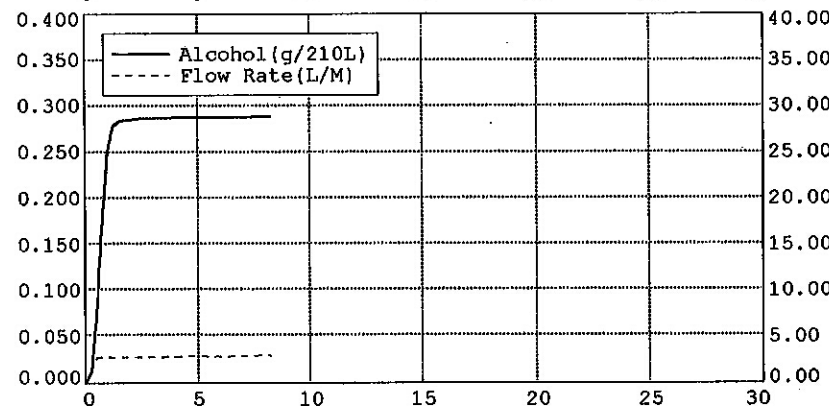
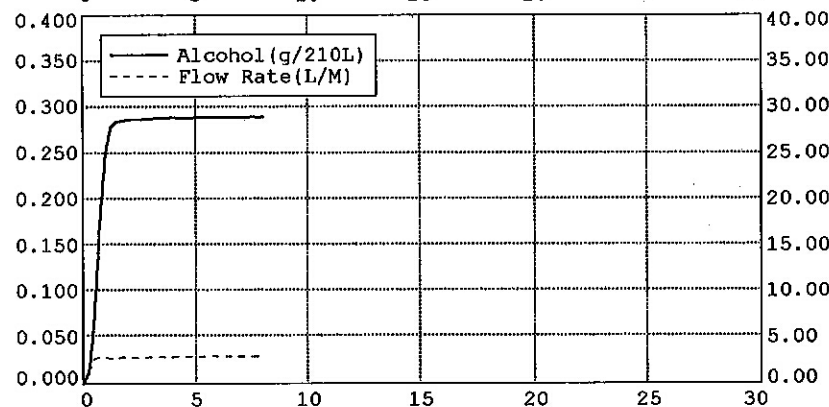
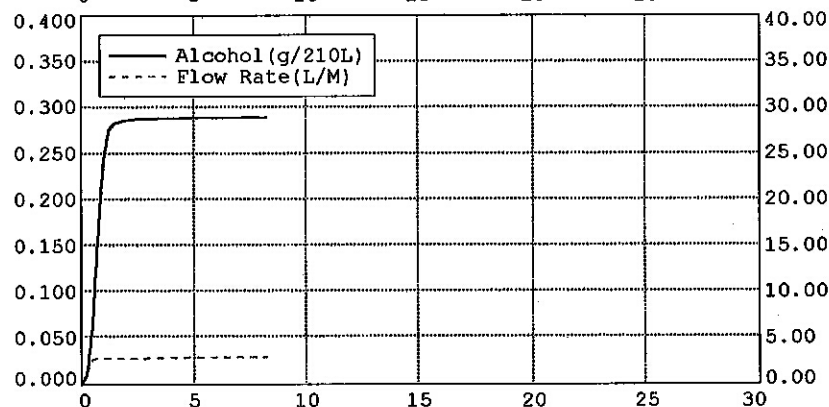
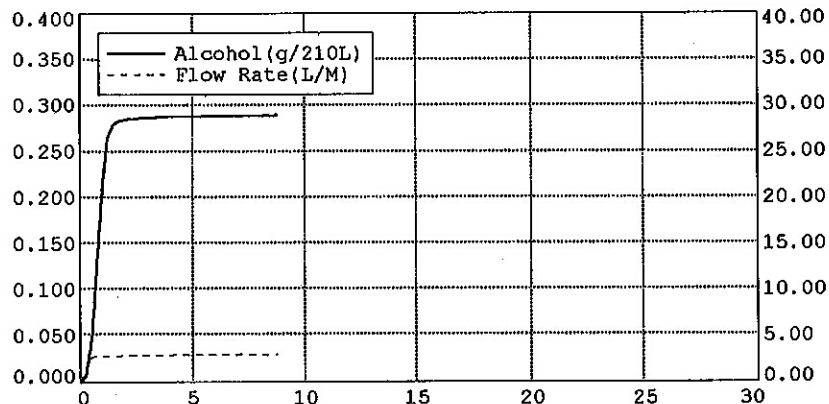
Date: 10/10/2011
Time: 15:01:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.43: 0.295
LOT #: 07611300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:02
INTERNAL STANDARD	VERIFIED	15:02
EXTERNAL STANDARD	0.288	15:03
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.288	15:04
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.288	15:05
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.287	15:06
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.288	15:07
BLANK TEST	0.000	15:08

Average = 0.2878
Std Dev = 0.0004

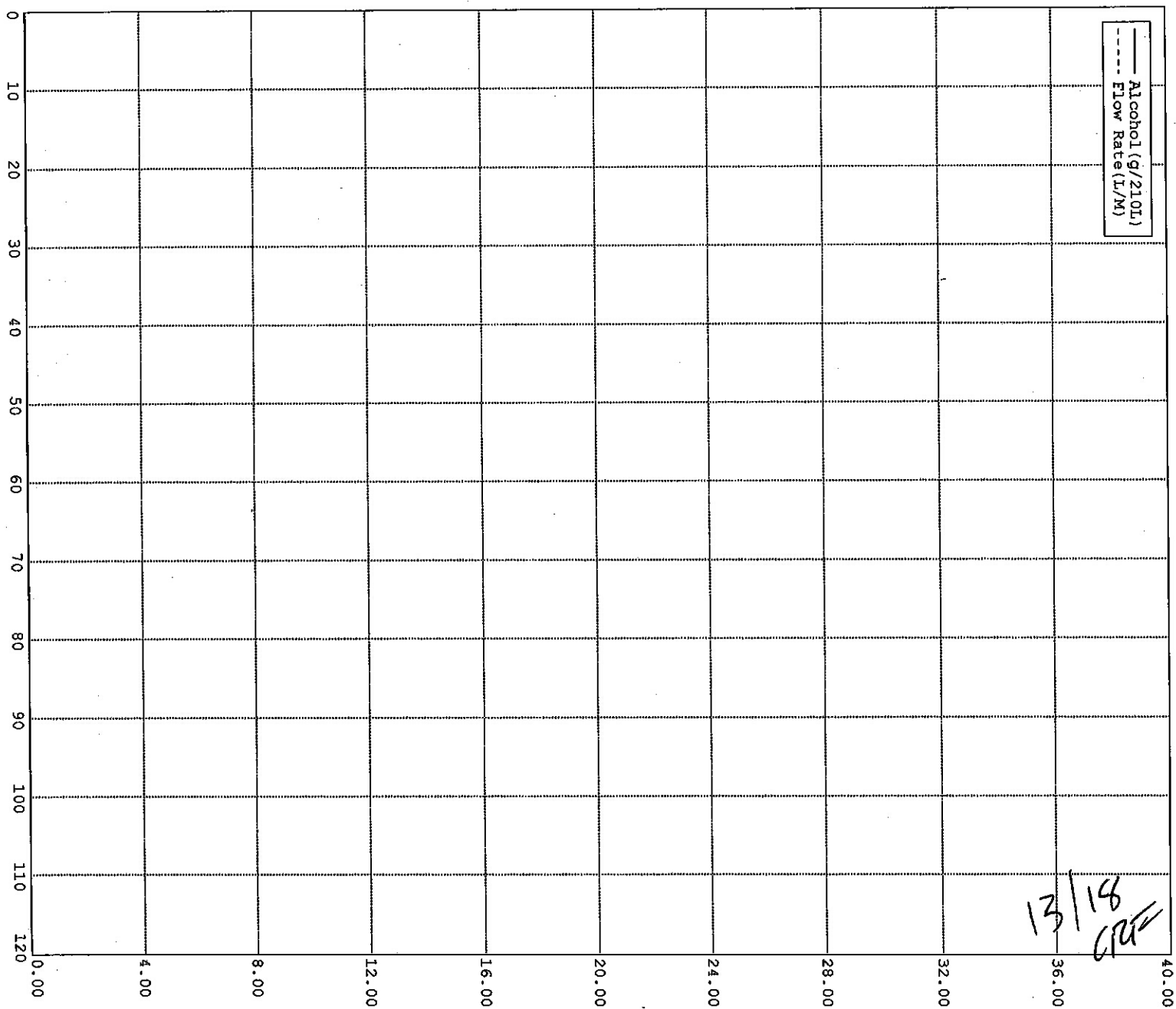


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421Date: 10/11/2011
Time: 08:09:38SUBJECT 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 29.43: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:10
BLANK TEST	0.000	08:10
INTERNAL STANDARD	VERIFIED	08:10
EXTERNAL STANDARD	0.079	08:11
BLANK TEST	0.000	08:12
SUBJECT SAMPLE	INCOMPLETE	08:14

CRF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 10/11/2011
Time: 08:18:19

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

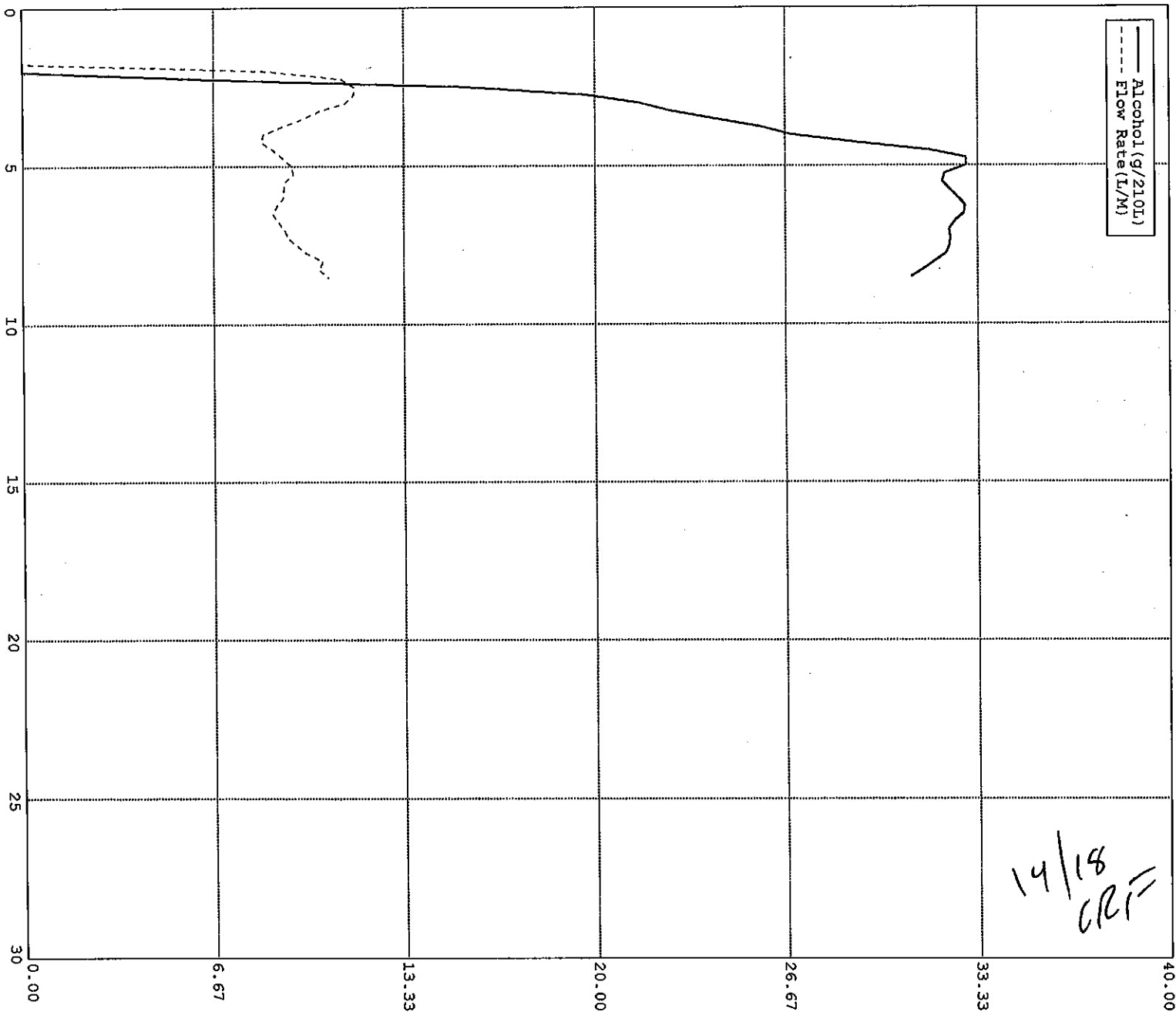
OPERATOR NAME:
INVALID KNOWN MOUTH ETOH
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:23
BLANK TEST	0.000	08:23
INTERNAL STANDARD	VERIFIED	08:23
EXTERNAL STANDARD	0.080	08:23
BLANK TEST	0.000	08:24
SUBJECT SAMPLE	Invalid	08:25

CRF

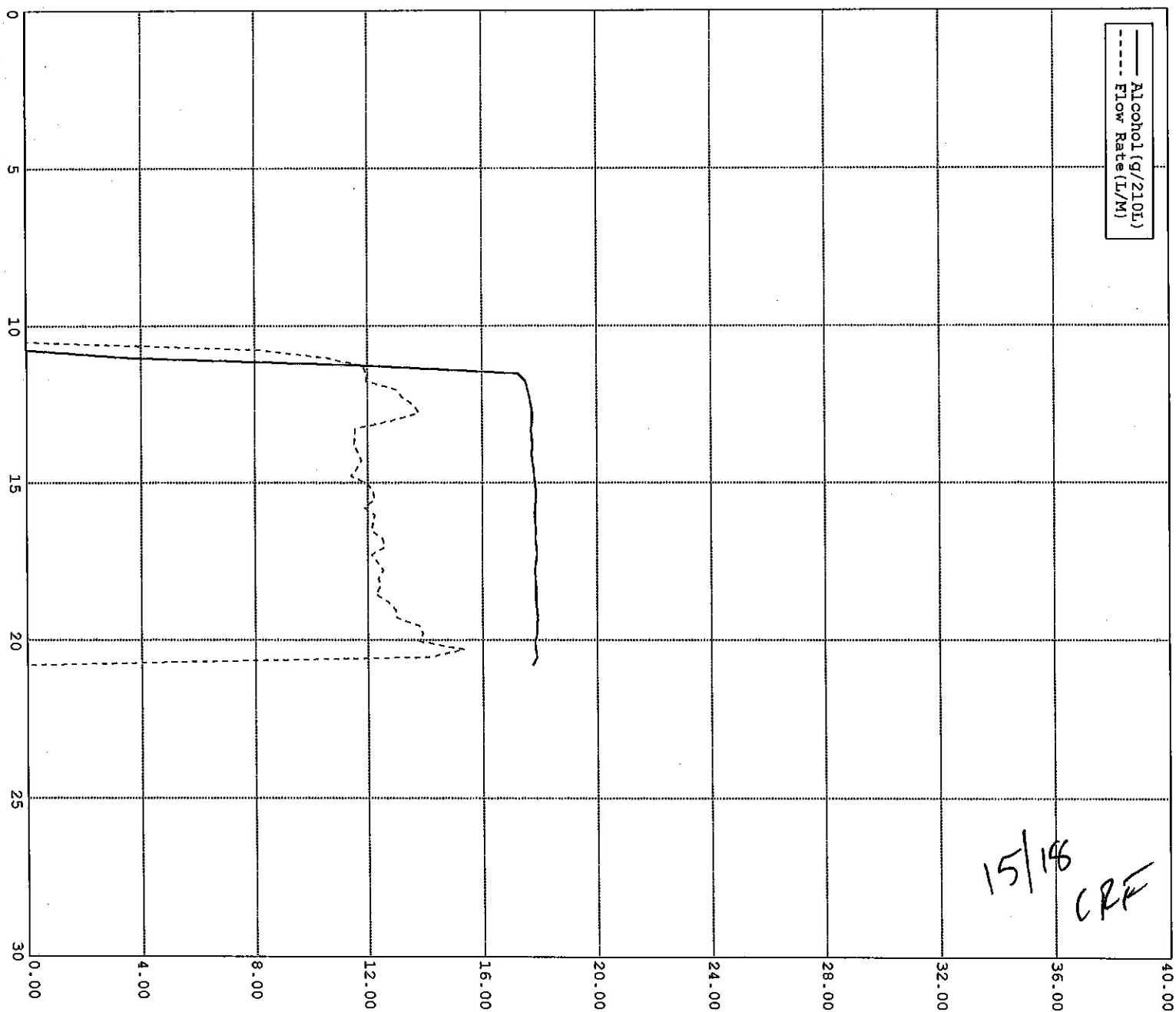


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421Date: 10/11/2011
Time: 08:36:05SUBJECT 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 29.43: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:37
BLANK TEST	0.000	08:37
INTERNAL STANDARD	VERIFIED	08:37
EXTERNAL STANDARD	0.079	08:38
BLANK TEST	0.000	08:39
SUBJECT SAMPLE	INTERFERENCE	08:39

CRF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 10/11/2011
Time: 08:27:38

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

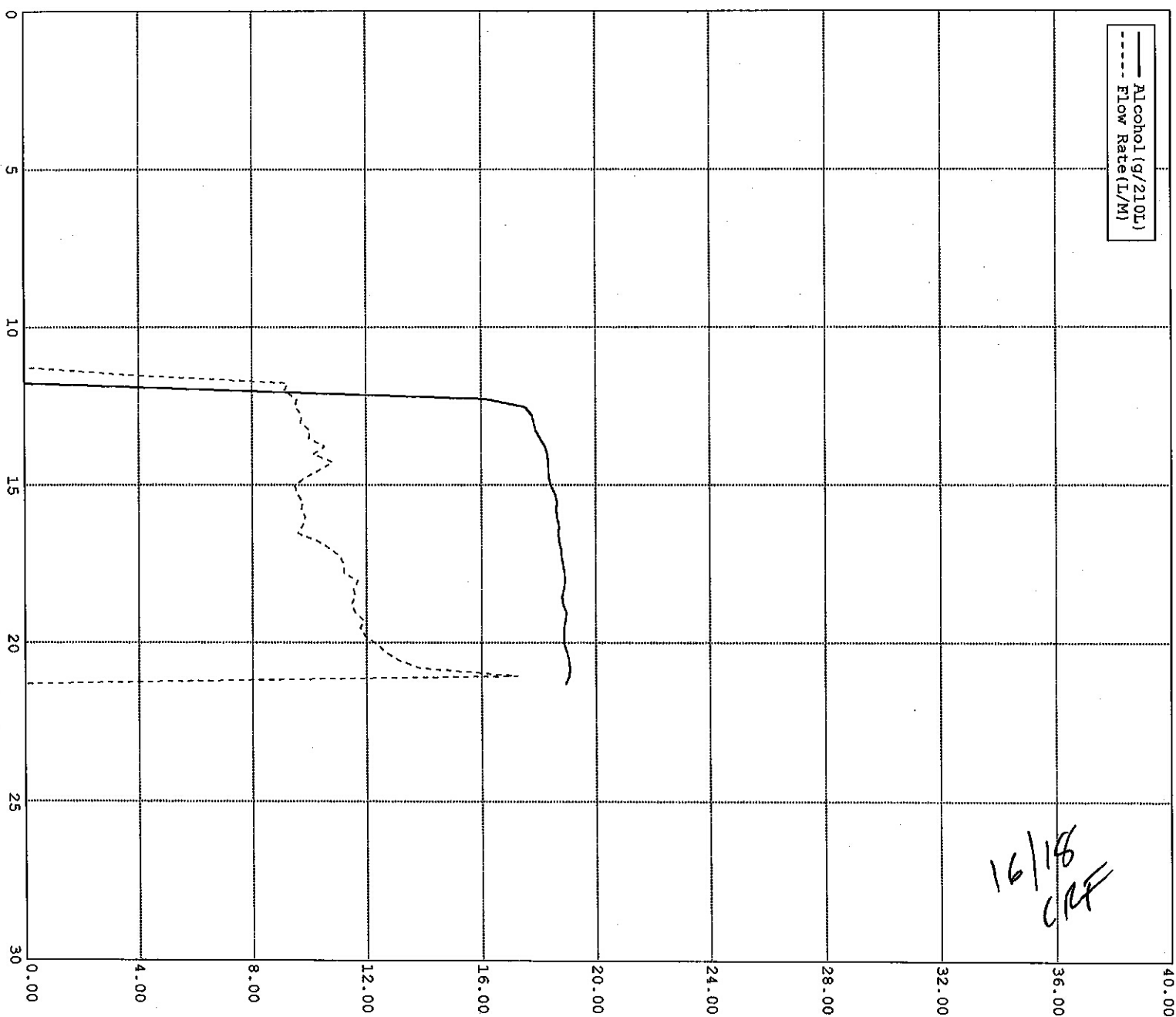
OPERATOR NAME:
INTERFERENCE ETOH AND IPA
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:29
BLANK TEST	0.000	08:29
INTERNAL STANDARD	VERIFIED	08:29
EXTERNAL STANDARD	0.079	08:29
BLANK TEST	0.000	08:30
SUBJECT SAMPLE	INTERFERENCE	08:31

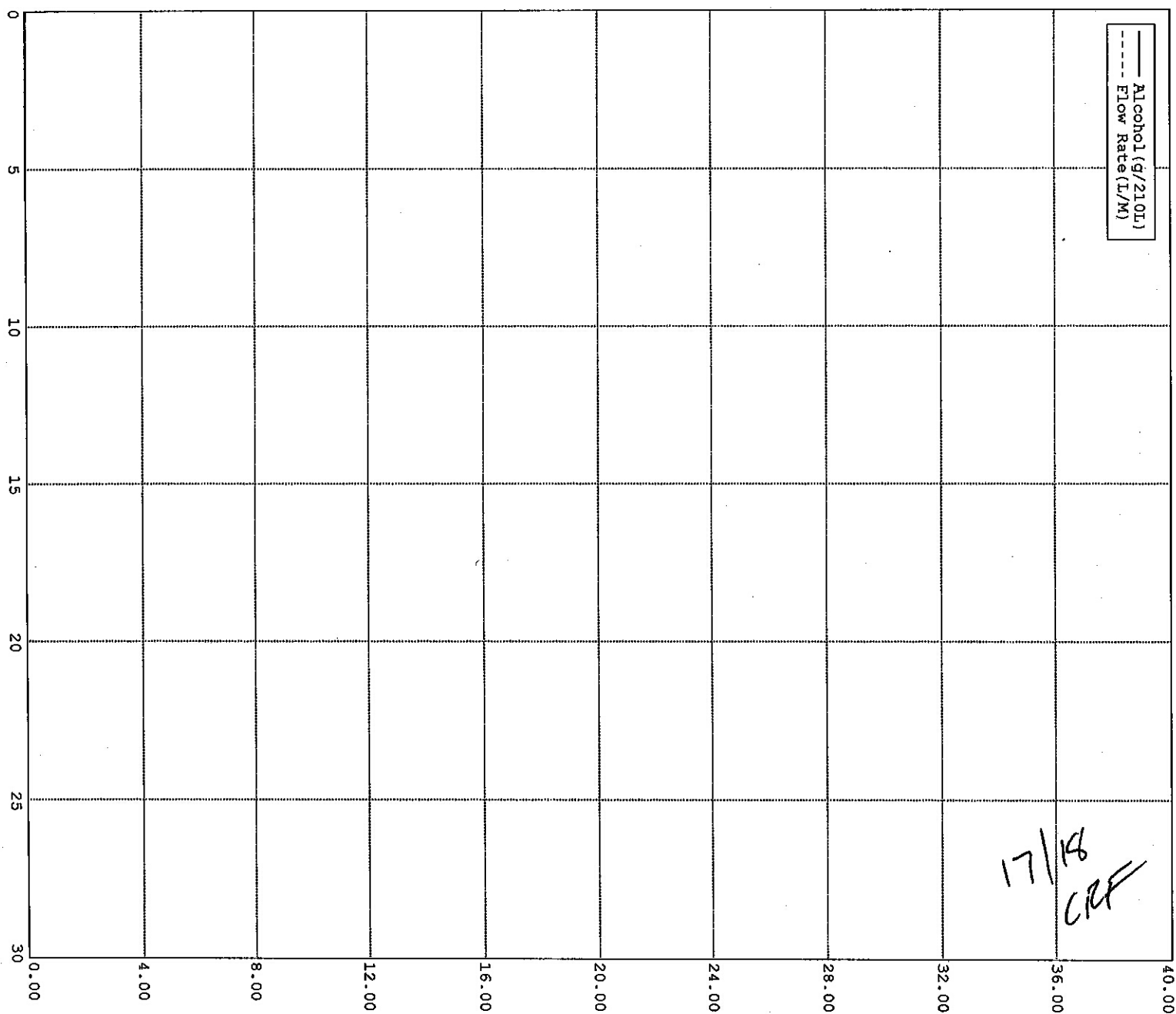
CRF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421Date: 10/11/2011
Time: 08:43:21SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.44: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 08:44
INTERNAL STANDARD VERIFIED 08:44
EXTERNAL STANDARD 0.080 08:45
BLANK TEST 0.000 08:45

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100421

Date: 10/11/2011
Time: 08:54:06

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

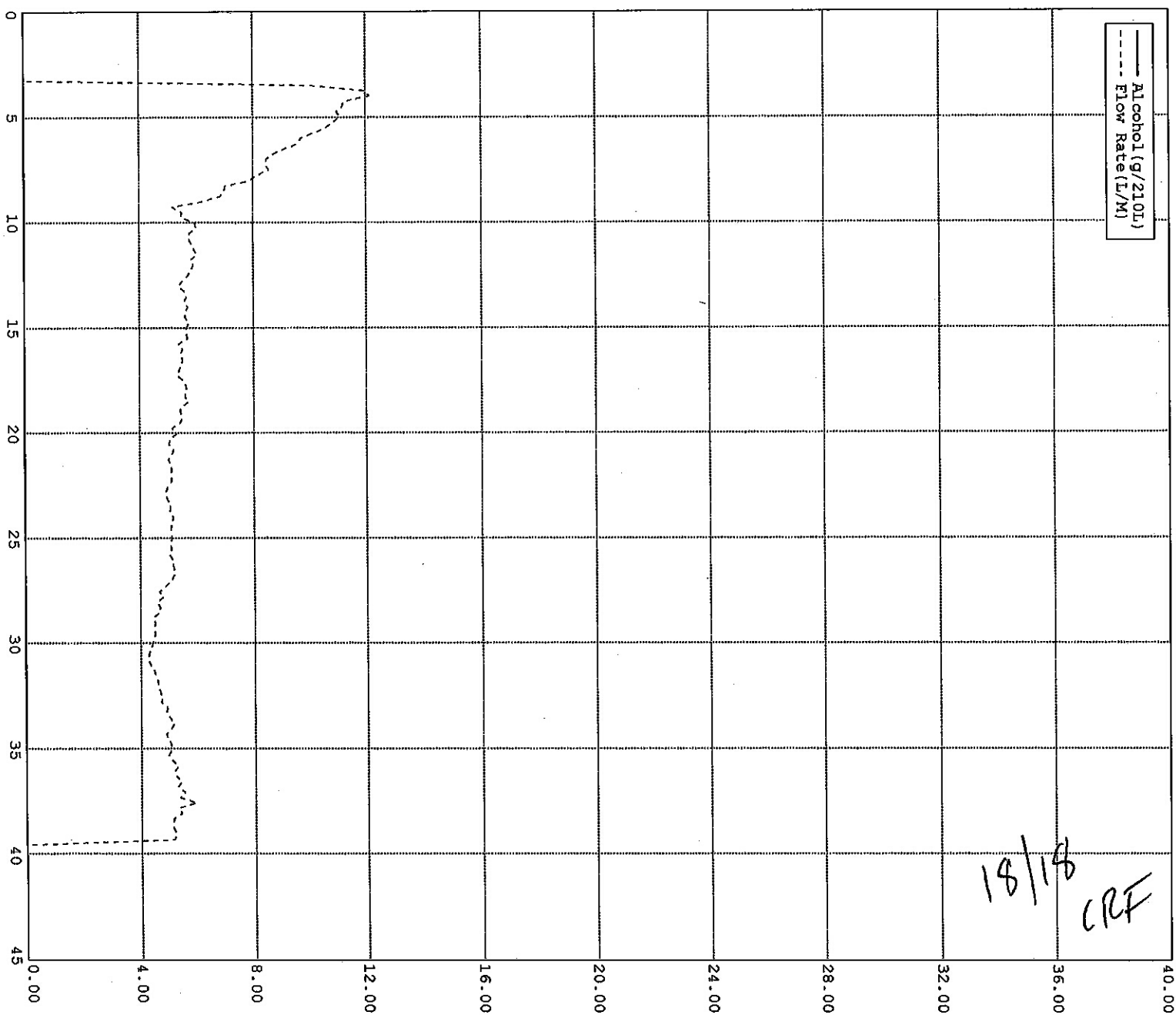
OPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:55
BLANK TEST	0.000	08:55
INTERNAL STANDARD	VERIFIED	08:55
EXTERNAL STANDARD	0.079	08:55
BLANK TEST	0.000	08:56
SUBJECT SAMPLE	0.000	08:57
BLANK TEST	0.000	08:58
EXTERNAL STANDARD	0.080	08:58
BLANK TEST	0.000	08:59

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Final page for report

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2/18/2014