

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

DataMaster DMT Certification Form

Instrument # 100378Analyst CRFDate 6/2/11

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 1600 mL
5. Dry Gas Linearity Test (attached)
 - a. Levels Used
 - i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 2/1/2013
 - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/2013
 - iii. 0.080g/210L Mnf ILMO Lot 02511080A3 Exp 2/1/2013
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/2013
 - v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 3/1/2013
 - vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 3/1/2013
6. Functional Tests (attached)
 - a. Incomplete
 - b. Invalid
 - c. Interference
 - i. Acetone - Mnf Repl6 Lot 09805 Level 0.080 Exp 9/3/2011 WJ
 1. Simulator Calibration Date 10/19/2010 SN DR6267
 - ii. Isopropanol - Mnf Repl6 Lot 09805 Level 0.080 Exp 11/4/2011
 1. Simulator Calibration Date 8/4/2010 SN SD1202
 - d. RFI
7. Calibrate Stylus
8. Verify card reader is functional
9. Upload
10. Reset Options
11. Non-Drinking Subject Test (attached)

11/18 CRF

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dat: 100378

Date: 06/02/2011
Time: 12:51:29

VERSIONS
DMT: 1.02
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
Breath Tube = 46.9°C PASSED

PUMP INFO

Flow Rate = 4.712 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

2/18 CF

Technician Screen

DATAMASTER dnt: 100378

Date: 06/02/2011
Time: 2:31 PM

Temperatures (°C)
Sample Cell: 49.0°C
Breath Tube: 46.0°C

Current Barometer: 29.8 in
Volume (Ltr) 1.47

Settings
Lamp: 1.61 V
Bias: 80 V
Cooler: 1.57 V
Chopper: 532 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.044 V

3/18 CF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dat: 100378

Date: 03/02/2011
Time: 16:36:22

Ca	=	0.1000		
CAL	=	0.979544	0.800	<= CAL < 1.200
b1	=	0.0003	0.0000	<= b1 < 0.0040
b2	=	0.0051	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xg	=	0.0794	0.0500	<= Xg < 0.2000
a21	=	1.179335	1.050	<= a21 < 1.300
a31	=	0.448413	0.300	<= a31 < 0.800

4/18 CF

SUBJECT TEST

Alaska Department of Public Safety
 DATABASE REF: 100378

Date: 06/03/2011
 Time: 09:36:02

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

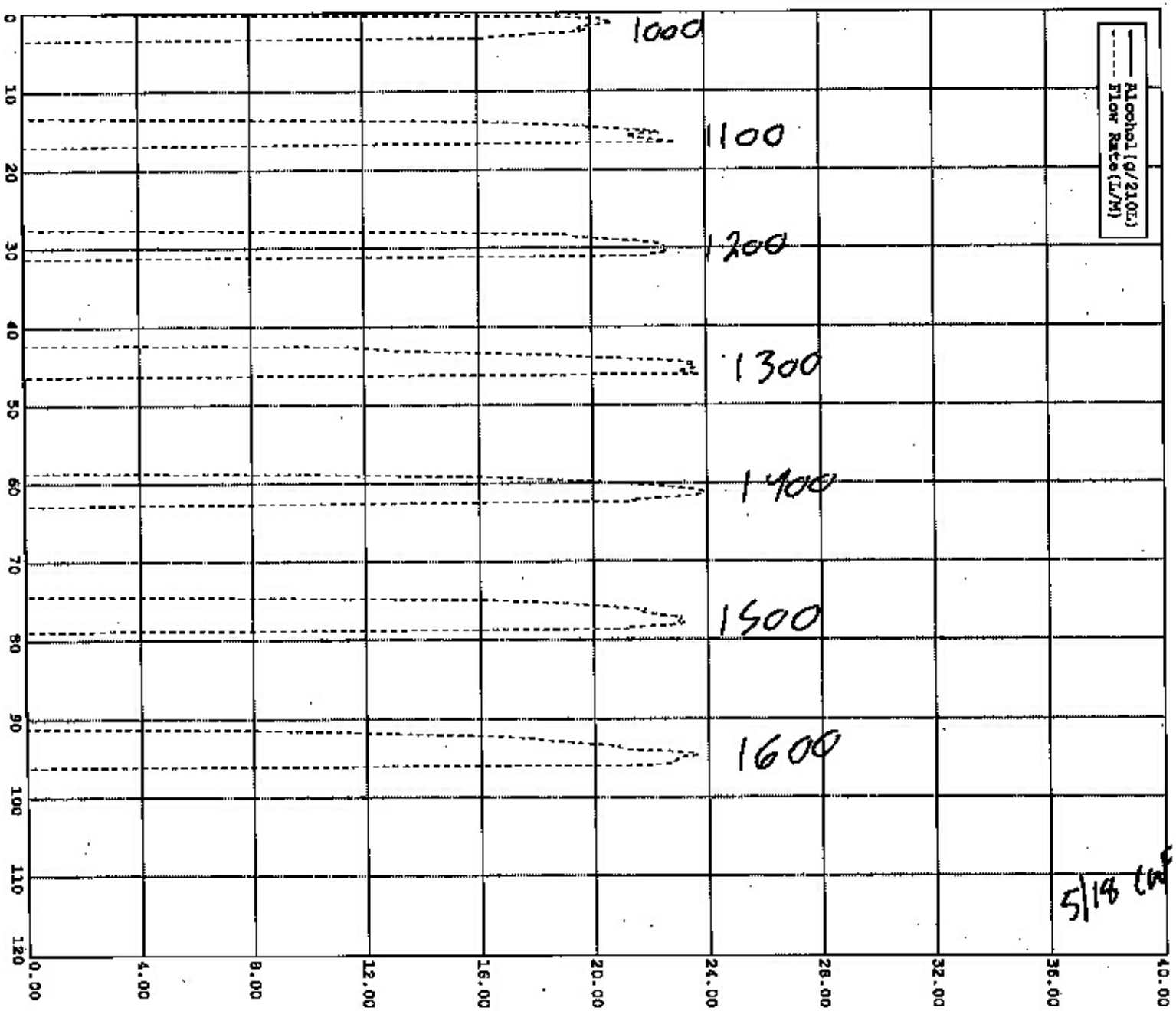
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

INTERNAL STANDARD INFORMATION
 RECORD#: 0.080
 TARGET AT 29.56: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

TEST TYPE	PASSED	09:37
DIAGNOSTIC CHECK	0.000	09:37
BLANK TEST	0.000	09:37
INTERNAL STANDARD	0.079	09:37
EXTERNAL STANDARD	0.000	09:38
BLANK TEST	0.000	09:40
SUBJECT SAMPLE	0.000	09:41
BLANK TEST	0.080	09:41
EXTERNAL STANDARD	0.000	09:42
BLANK TEST	0.000	09:42

CRF



LINERITY CHECK

Alaska Department of Public Safety
 DATUMASTER dno: 100378

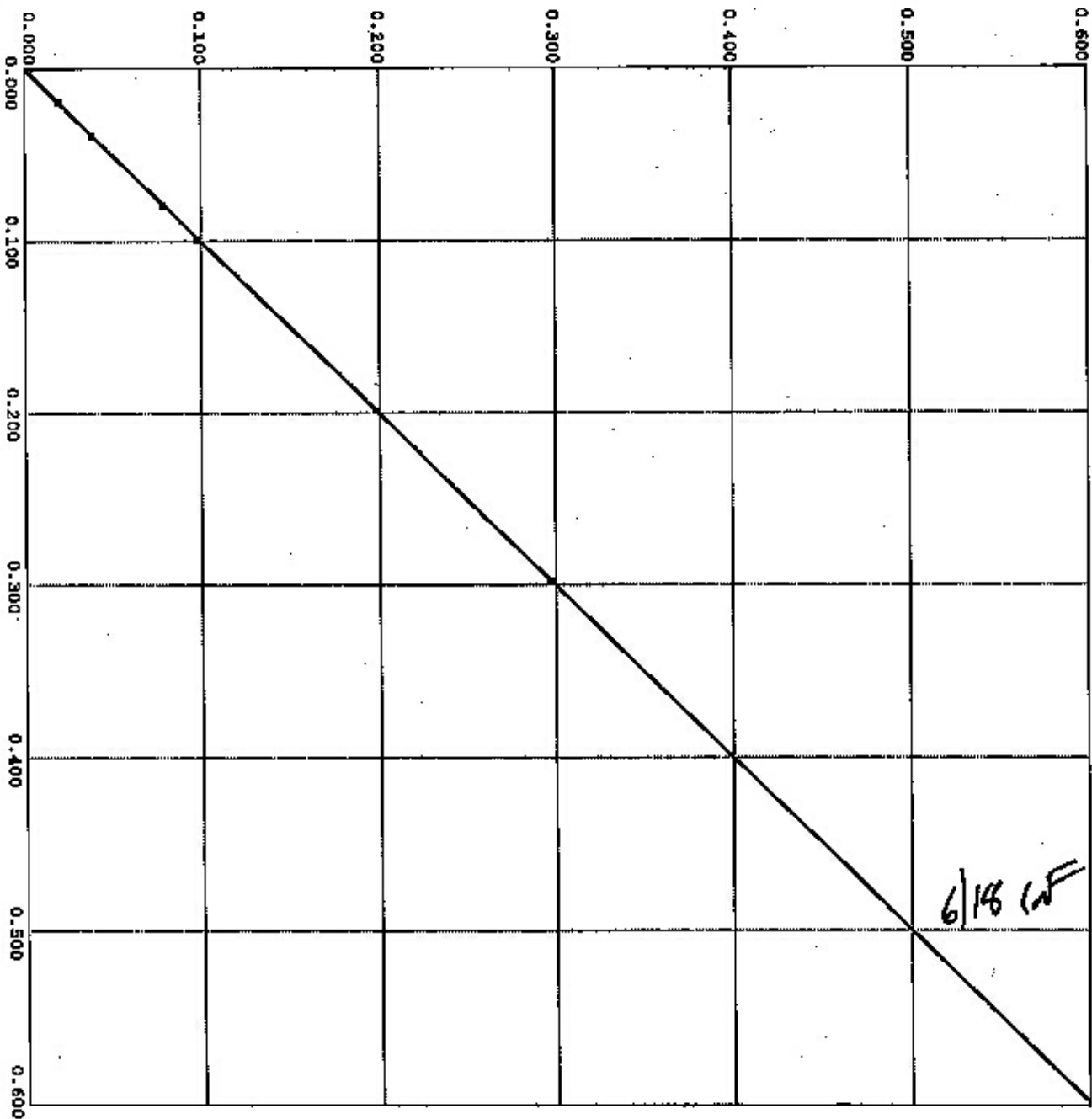
Date: 06/03/2011
 Time: 09:46:07

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0004
0.039	0.0390	0.0000
0.079	0.0790	0.0000
0.099	0.0988	0.0004
0.198	0.1992	0.0018
0.297	0.2980	0.0014

SLOPE = 1.002625
 R² = 0.999984

CRF



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER Chrt: 100378

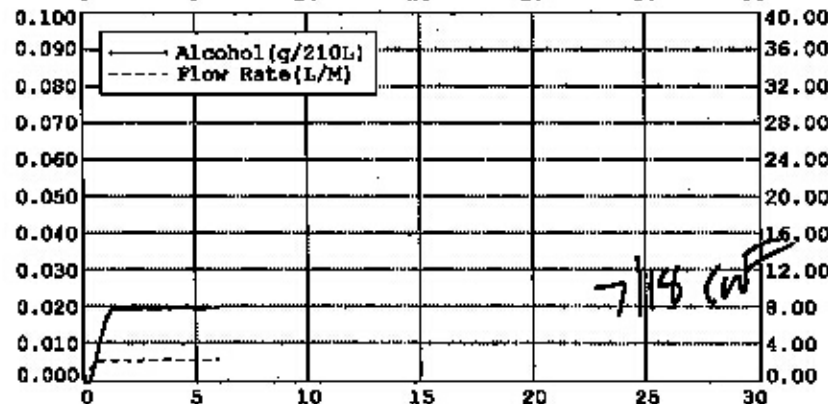
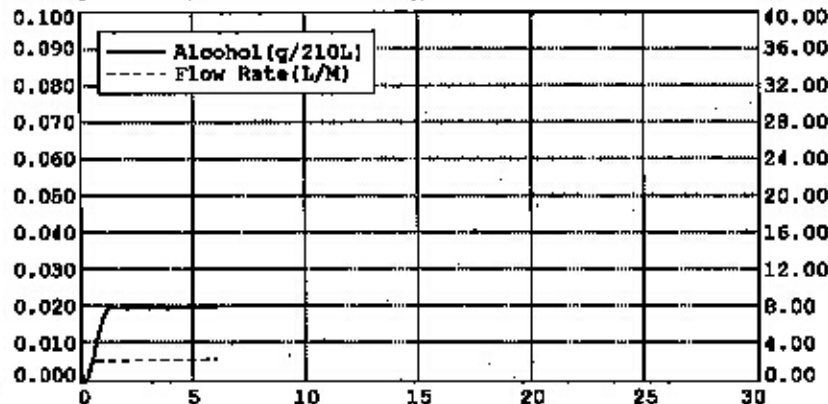
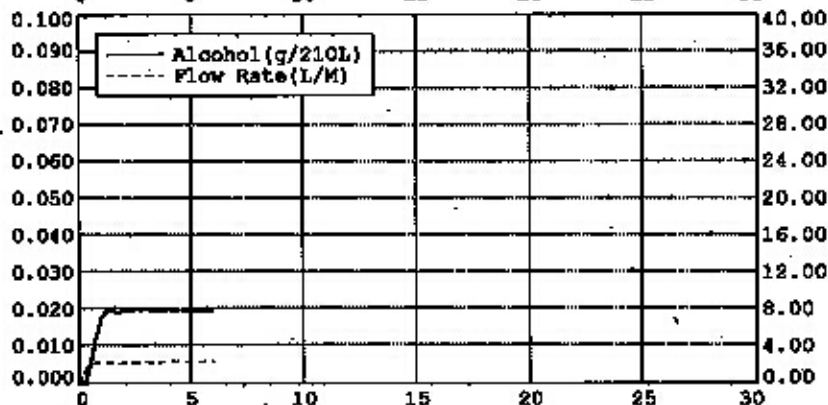
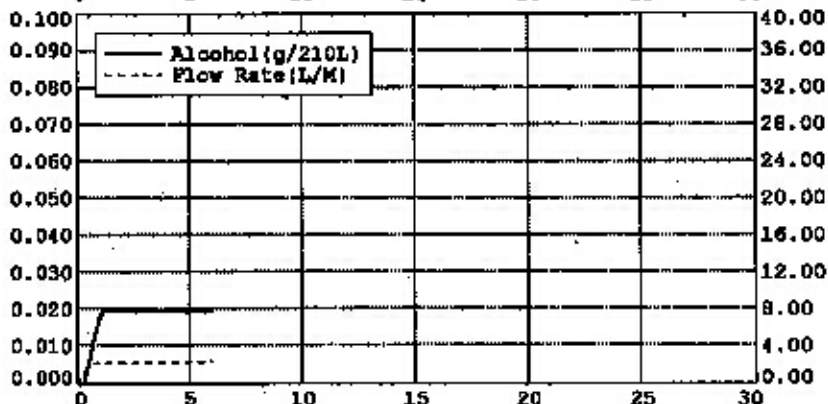
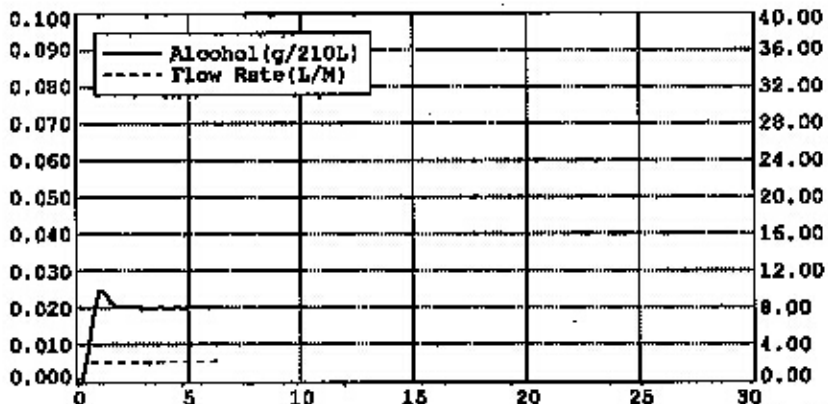
Date: 06/03/2011
 Time: 09:46:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.66: 0.019
 LOT #: 02811020A1
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	09:47
INTERNAL STANDARD	VERIFIED	09:48
EXTERNAL STANDARD	0.021	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.020	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.020	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.020	09:51
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.020	09:52
BLANK TEST	0.000	09:53

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100378

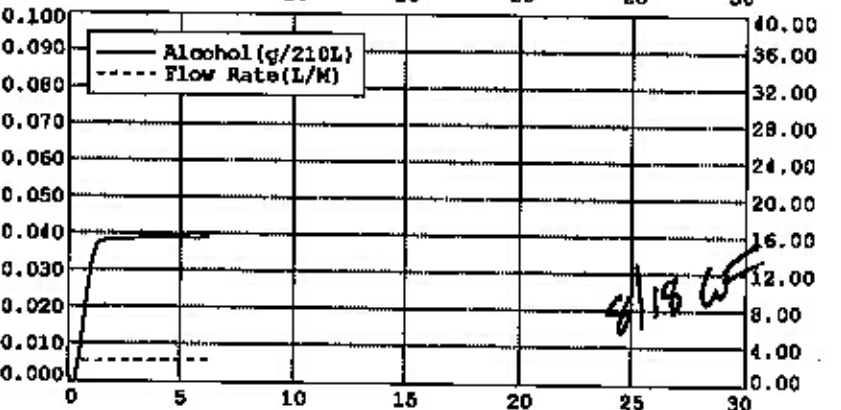
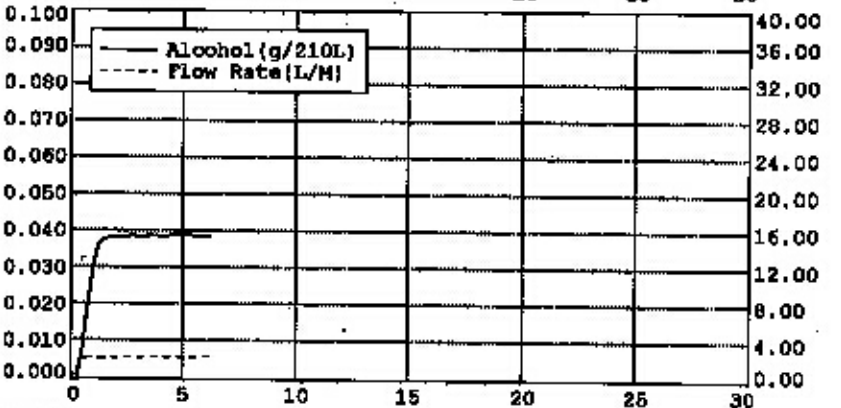
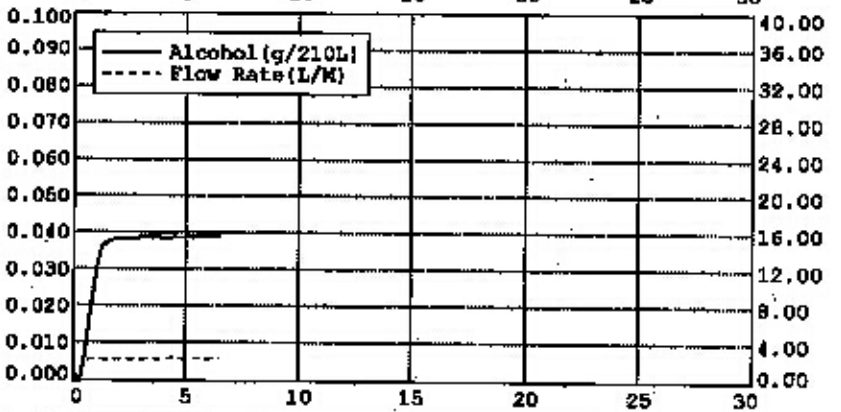
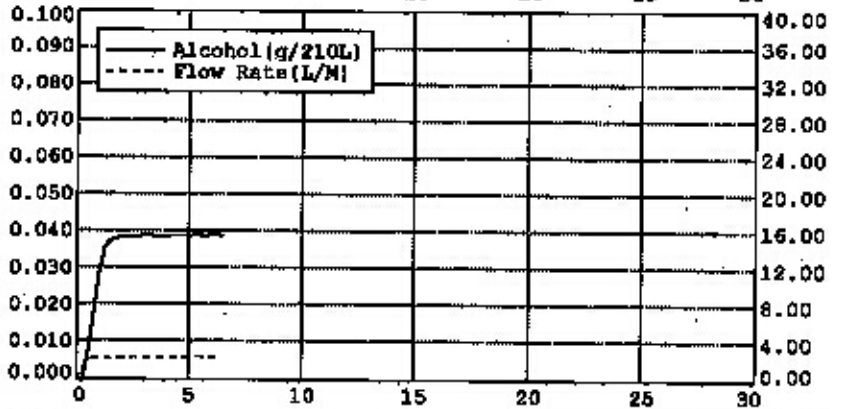
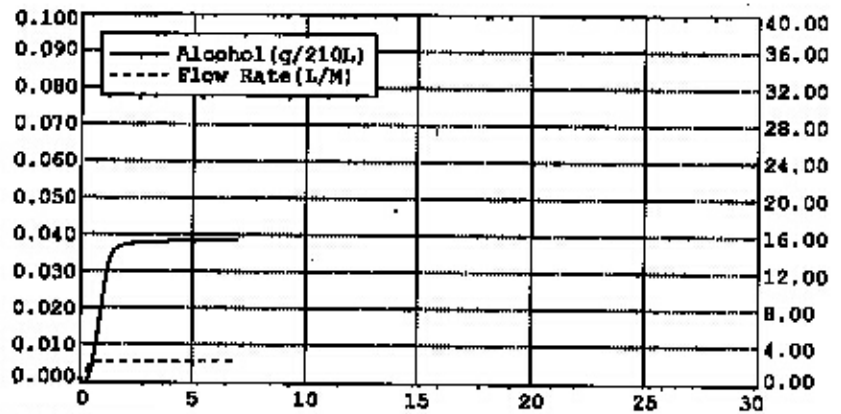
Date: 06/03/2011
 Time: 09:55:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.66: 0.039
 LOT #: 02811040A2
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	09:56
INTERNAL STANDARD	VERIFIED	09:57
EXTERNAL STANDARD	0.039	09:57
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.039	09:58
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.039	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.039	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.039	10:01
BLANK TEST	0.000	10:02

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dnt: 100378

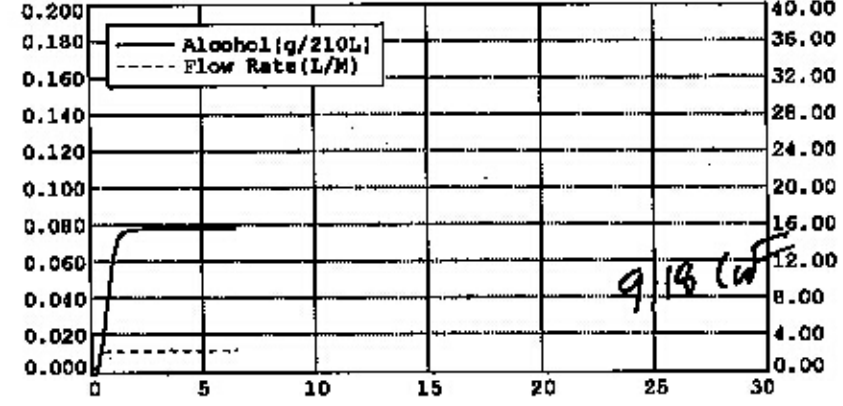
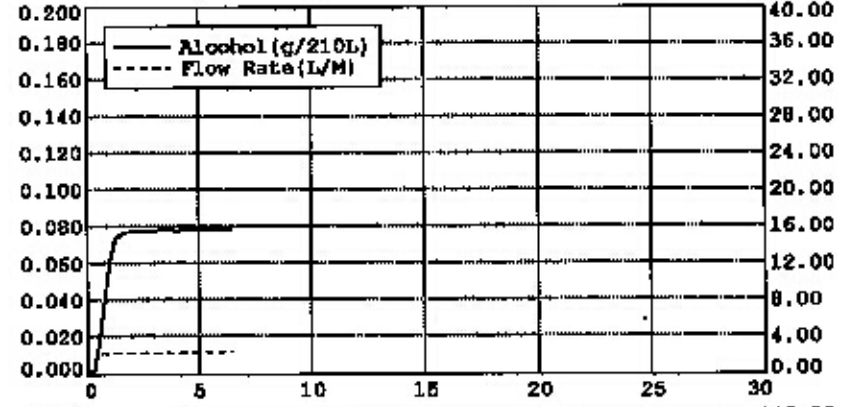
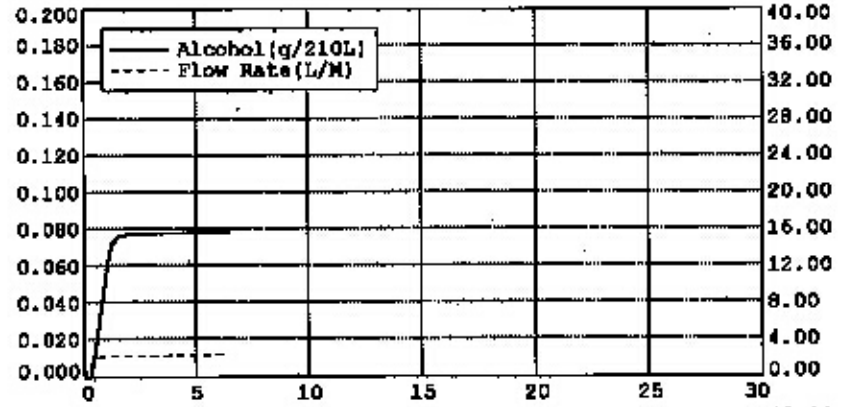
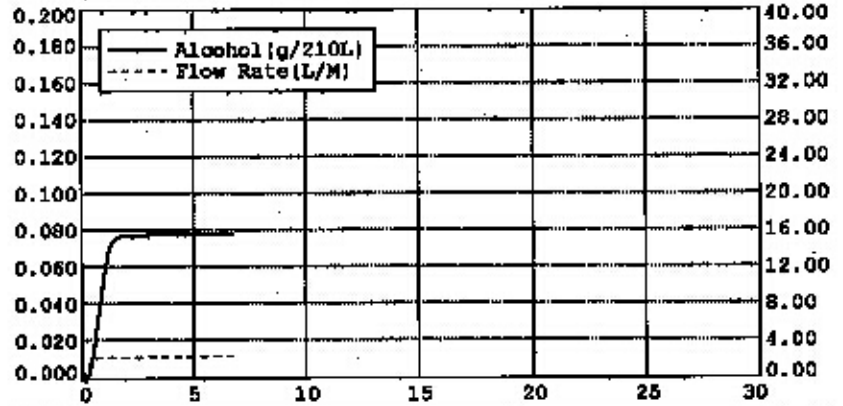
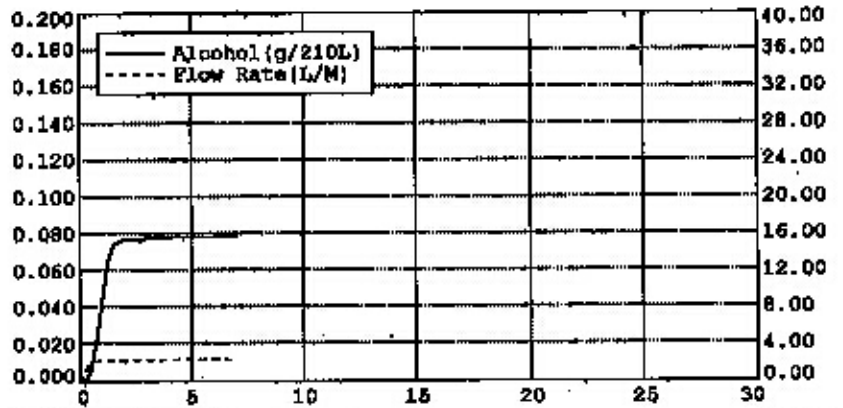
Date: 06/03/2011
 Time: 10:03:44

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.66: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:05
INTERNAL STANDARD	VERIFIED	10:05
EXTERNAL STANDARD	0.079	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.079	10:06
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.079	10:07
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.079	10:08
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.079	10:10
BLANK TEST	0.000	10:10

Average = 0.0790
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dat: 100376

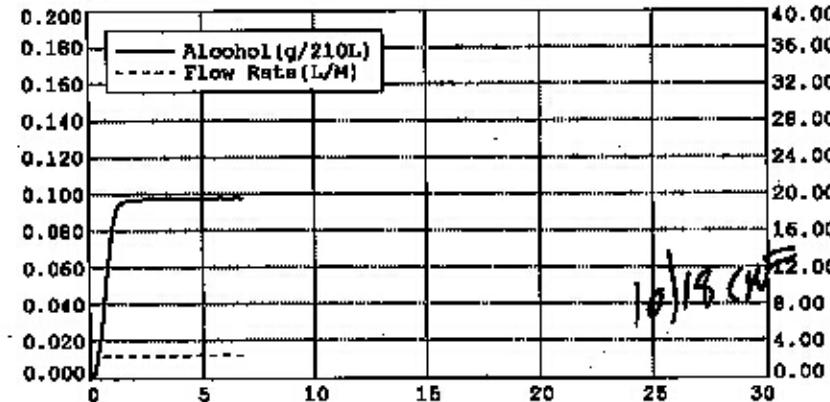
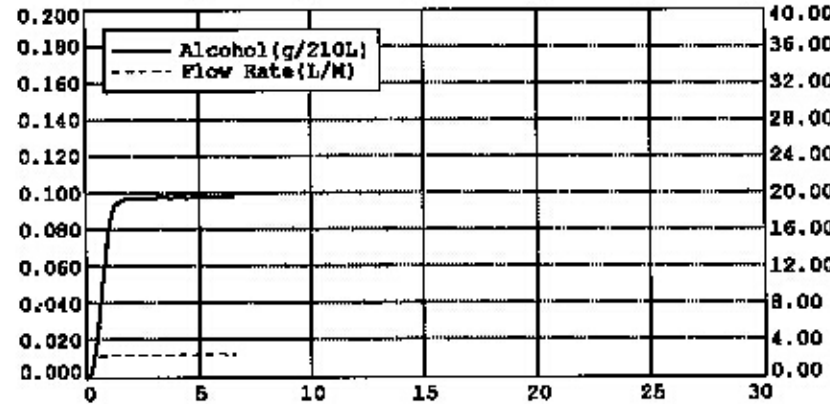
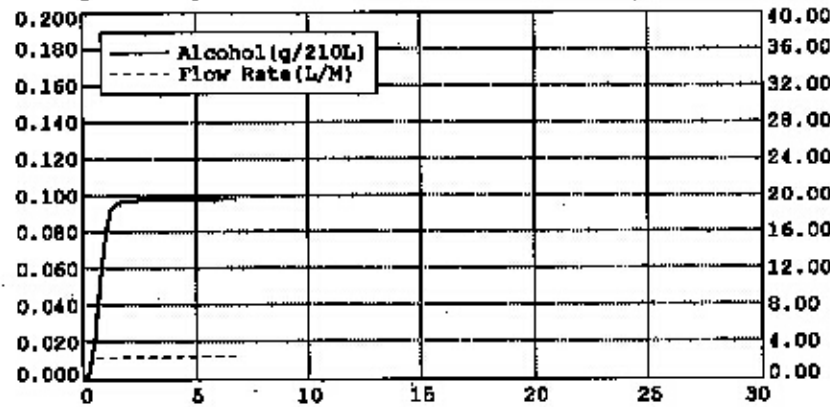
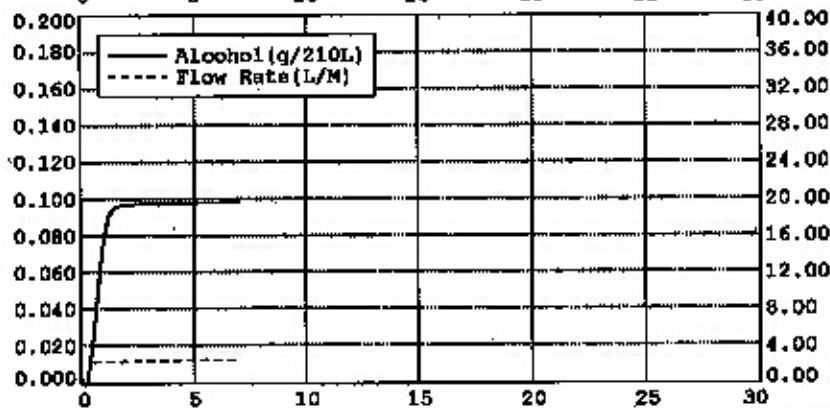
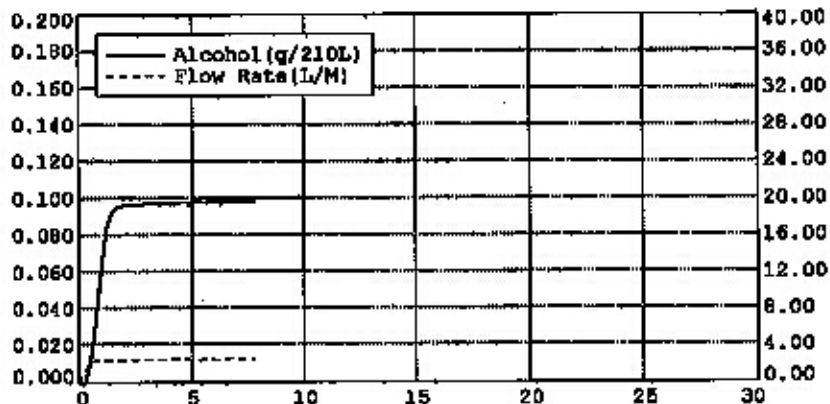
Date: 06/03/2011
 Time: 10:21:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.66: 0.099
 LOT #: 05611100A2
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:22
EXTERNAL STANDARD	0.099	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.099	10:24
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.099	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.099	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.098	10:27
BLANK TEST	0.000	10:28

Average = 0.0988
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

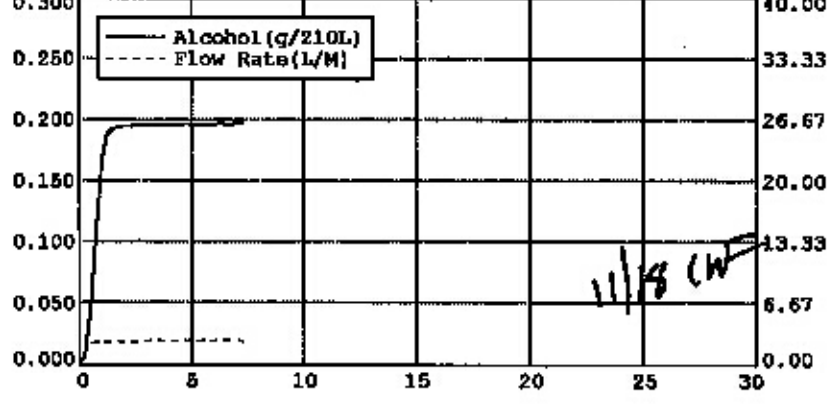
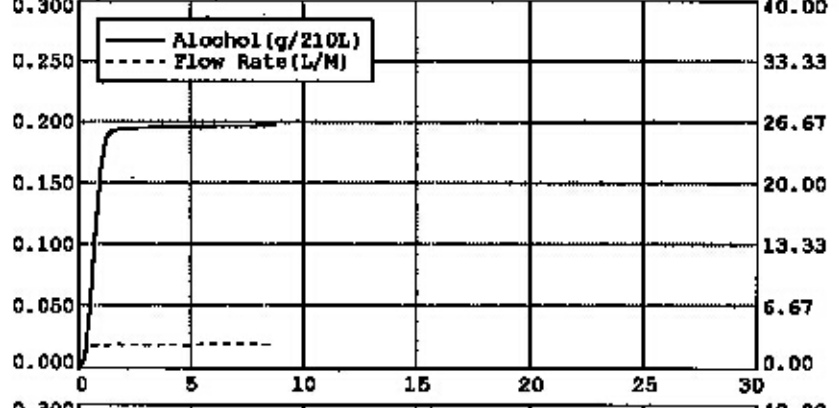
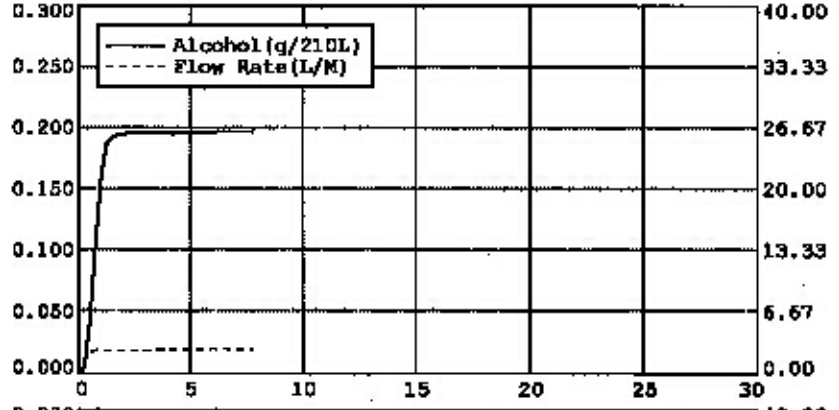
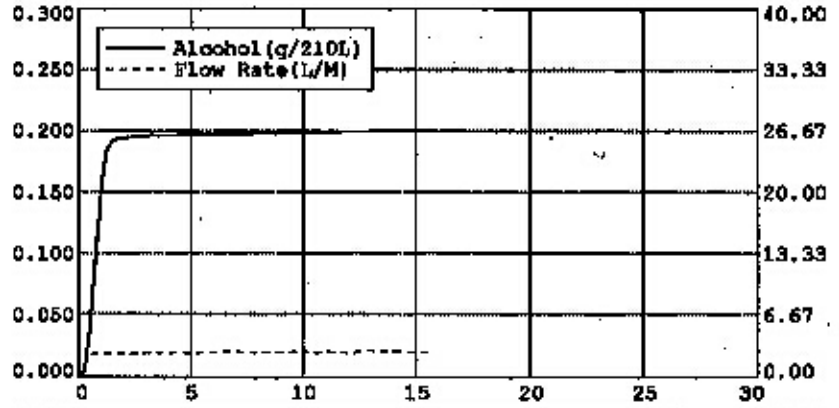
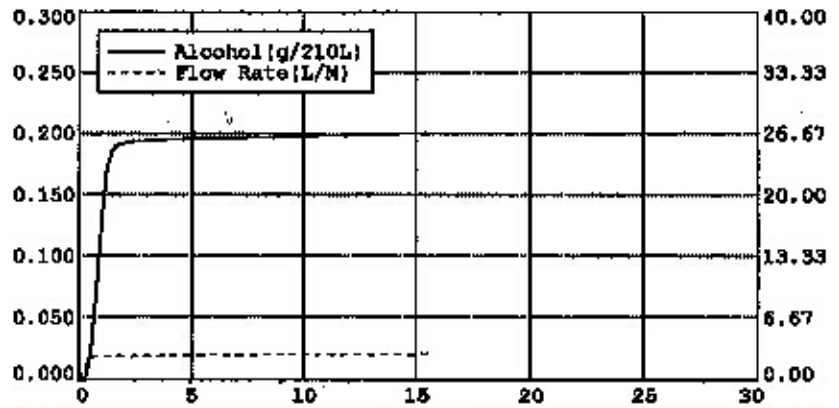
Alaska Department of Public Safety
 DATAMASTER dnt: 100378

Date: 06/03/2011
 Time: 10:29:40

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 TARGET AT 29.66: 0.198
 LOT #: 07411200A2
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:31
INTERNAL STANDARD	VERIFIED	10:31
EXTERNAL STANDARD	0.201	10:31
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.201	10:33
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.198	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.199	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.197	10:37
BLANK TEST	0.000	10:39

Average = 0.1992
 Std Dev = 0.0018



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER cat: 100378

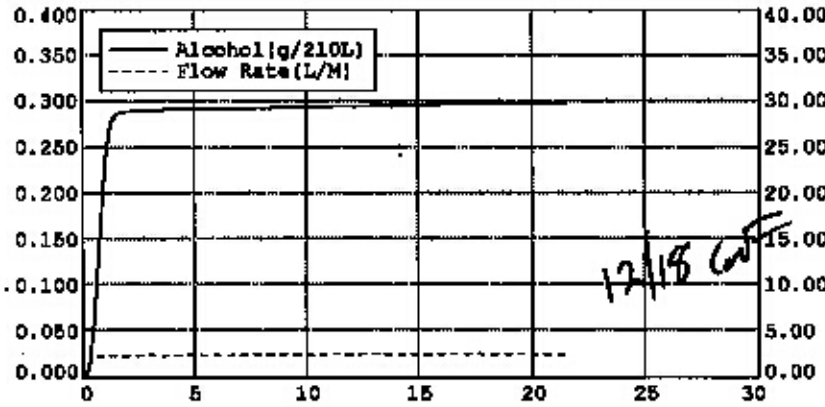
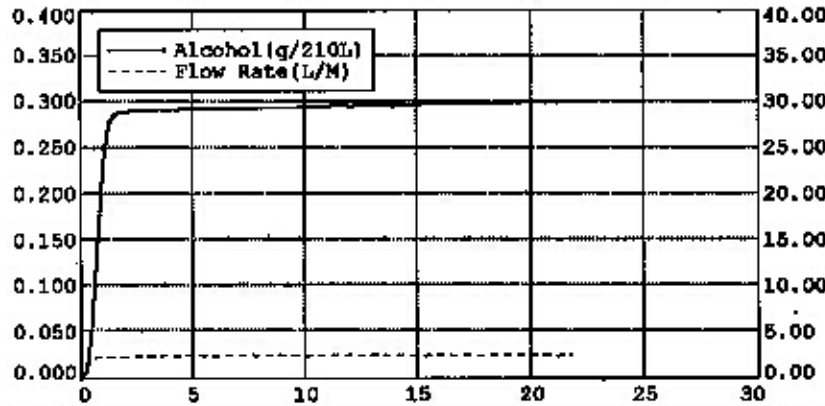
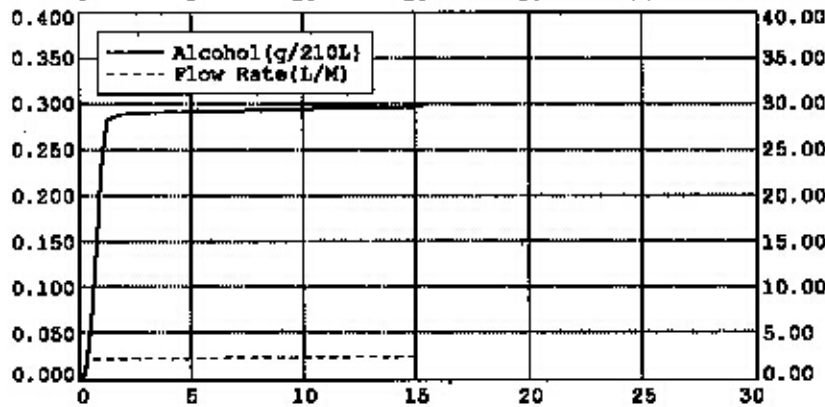
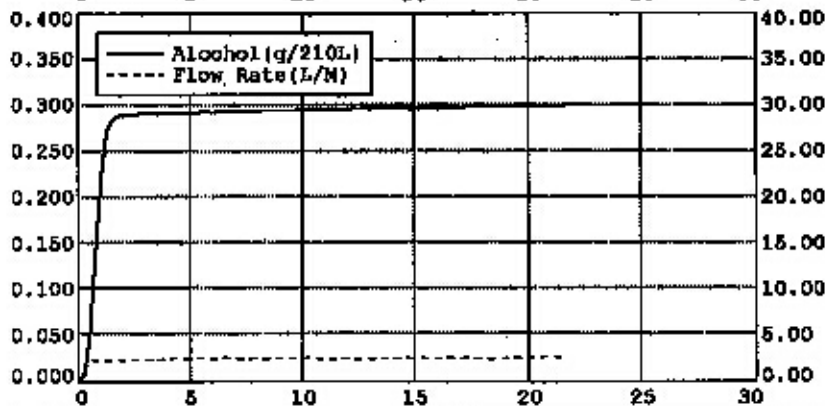
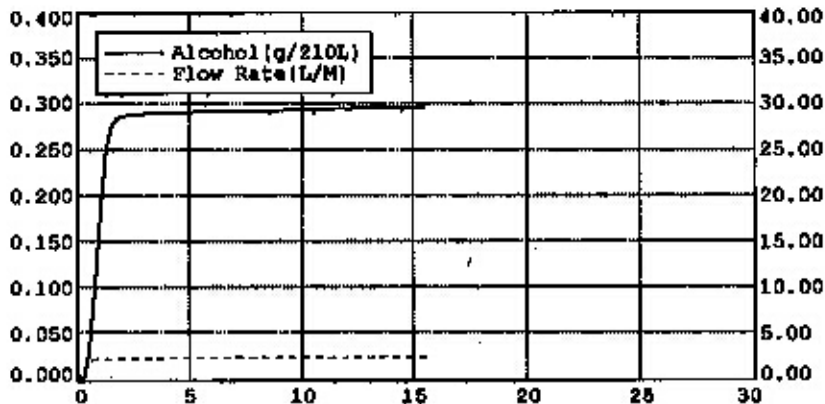
Date: 06/03/2011
 Time: 10:39:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.66: 0.297
 LOT #: 07411300A1
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
EXTERNAL STANDARD	0.297	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.299	10:42
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.296	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.299	10:45
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.299	10:48
BLANK TEST	0.000	10:49

Average = 0.2980
 Std Dev = 0.0014



SUBJECT TEST

Alaska Department of Public Safety
LABORATORY dnt: 100378

Date: 06/03/2011
Time: 10:56:56

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

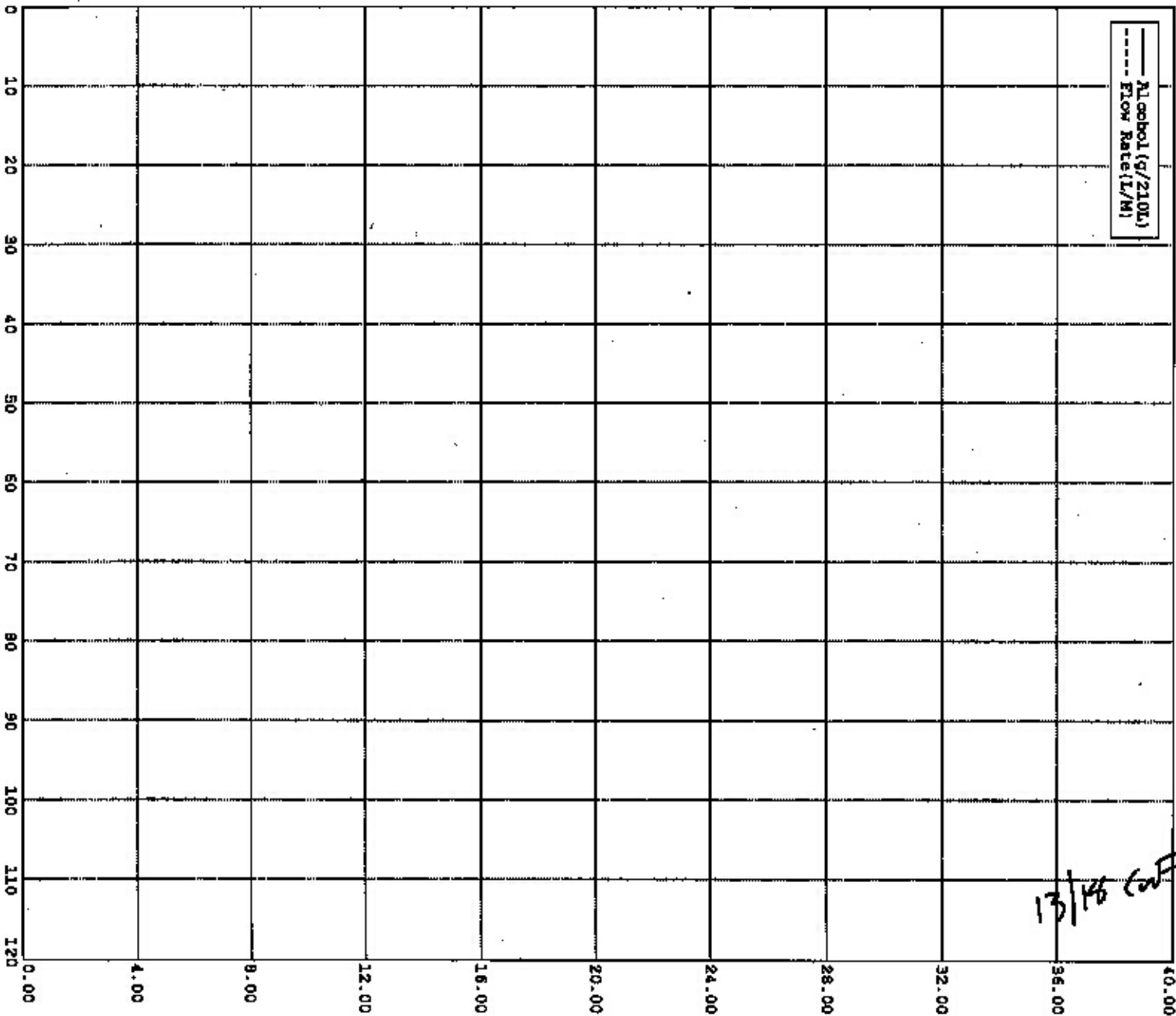
OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NORMAL: 0.080
TARGET AT 29.66: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:59
BLANK TEST	0.000	10:59
INTERNAL STANDARD	VERIFIED	10:59
EXTERNAL STANDARD	0.079	10:59
BLANK TEST	0.000	11:00
SUBJECT SAMPLE	INCOMPLETE	11:02

CRF



SUBJECT TEST

Alaska Department of Public Safety
DIAGNOSTIC dmt: 100378

Date: 06/03/2011
Time: 11:04:18

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

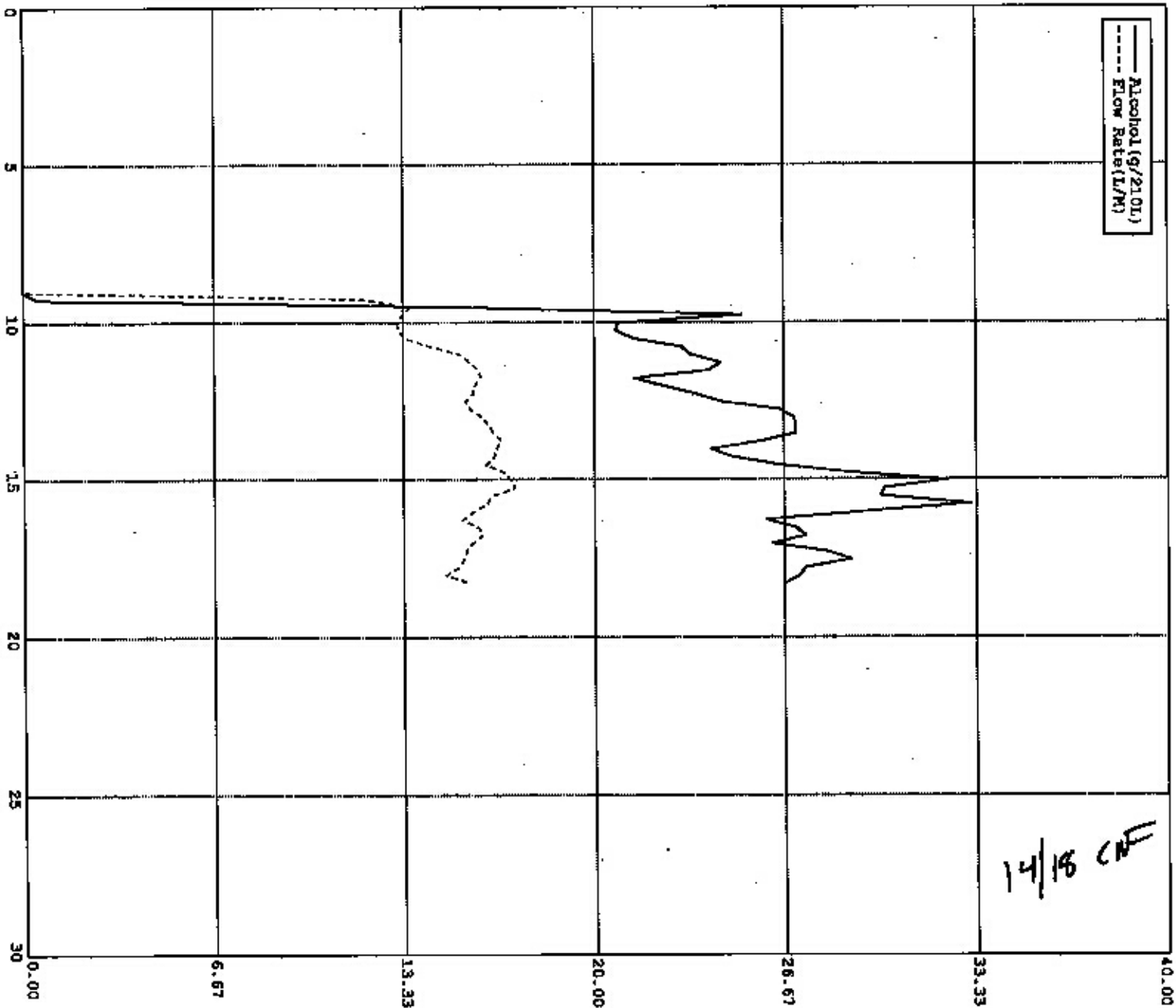
OPERATOR NAME:
INVALID KNOWN NORTH ALACROB
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.67: 0.079
LOT #: 0251108023
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	11:05
INTERNAL STANDARD	VERIFIED	11:06
EXTERNAL STANDARD	0.079	11:06
BLANK TEST	0.000	11:07
SUBJECT SAMPLE	INVALID	11:07

CRF



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100378

Date: 06/03/2011
Time: 13:33:29

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

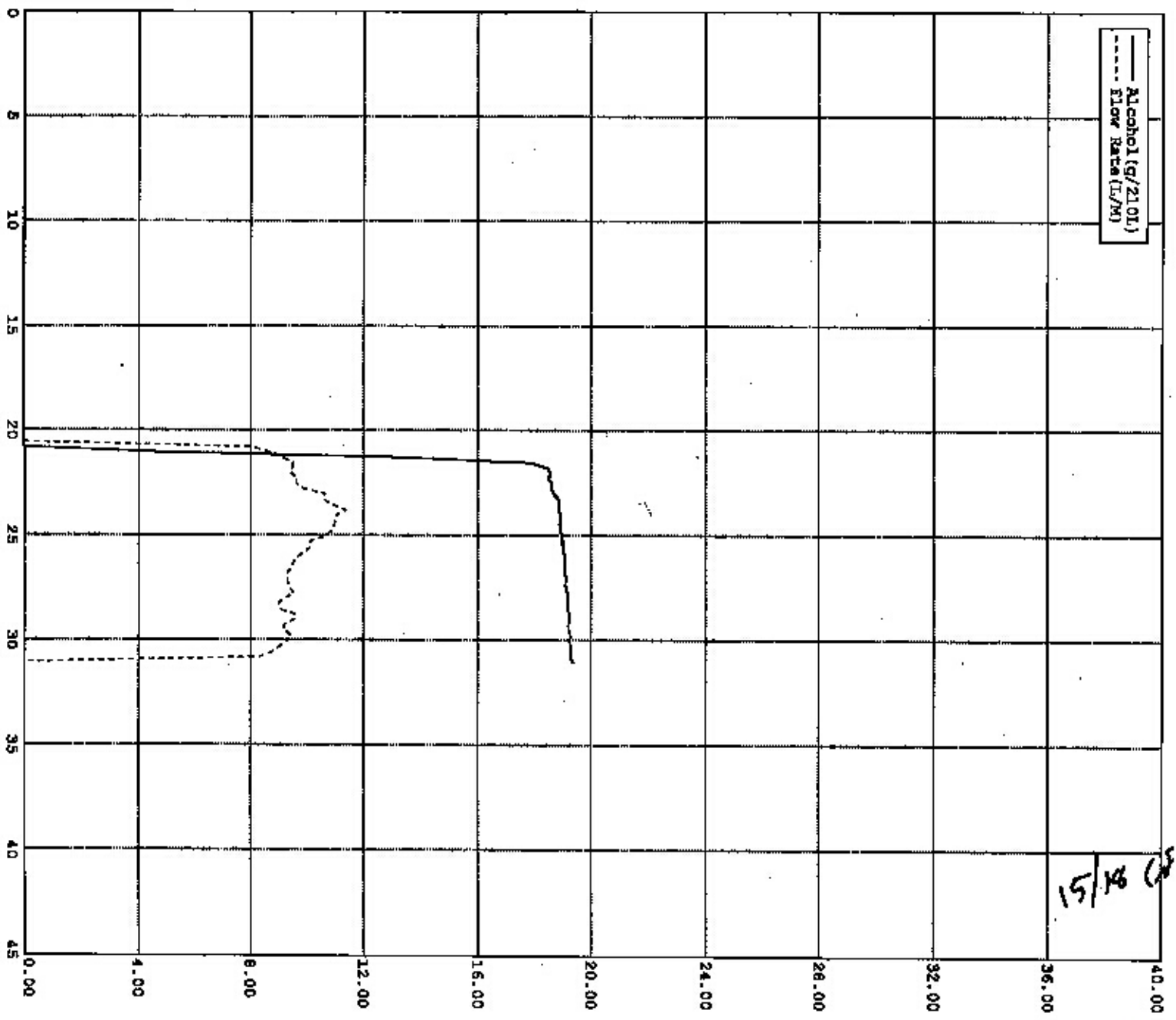
OPERATOR NAME:
INTERFERENCE ETOB AND ACETONE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
MATERIAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 0251108093
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:36
BLANK TEST	0.000	13:36
INTERNAL STANDARD	VERIFIED	13:36
EXTERNAL STANDARD	0.079	13:36
BLANK TEST	0.000	13:37
SUBJECT SAMPLE	INTERFERENCE	13:38

CRF



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100378

Date: 06/03/2011
 Time: 13:42:53

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

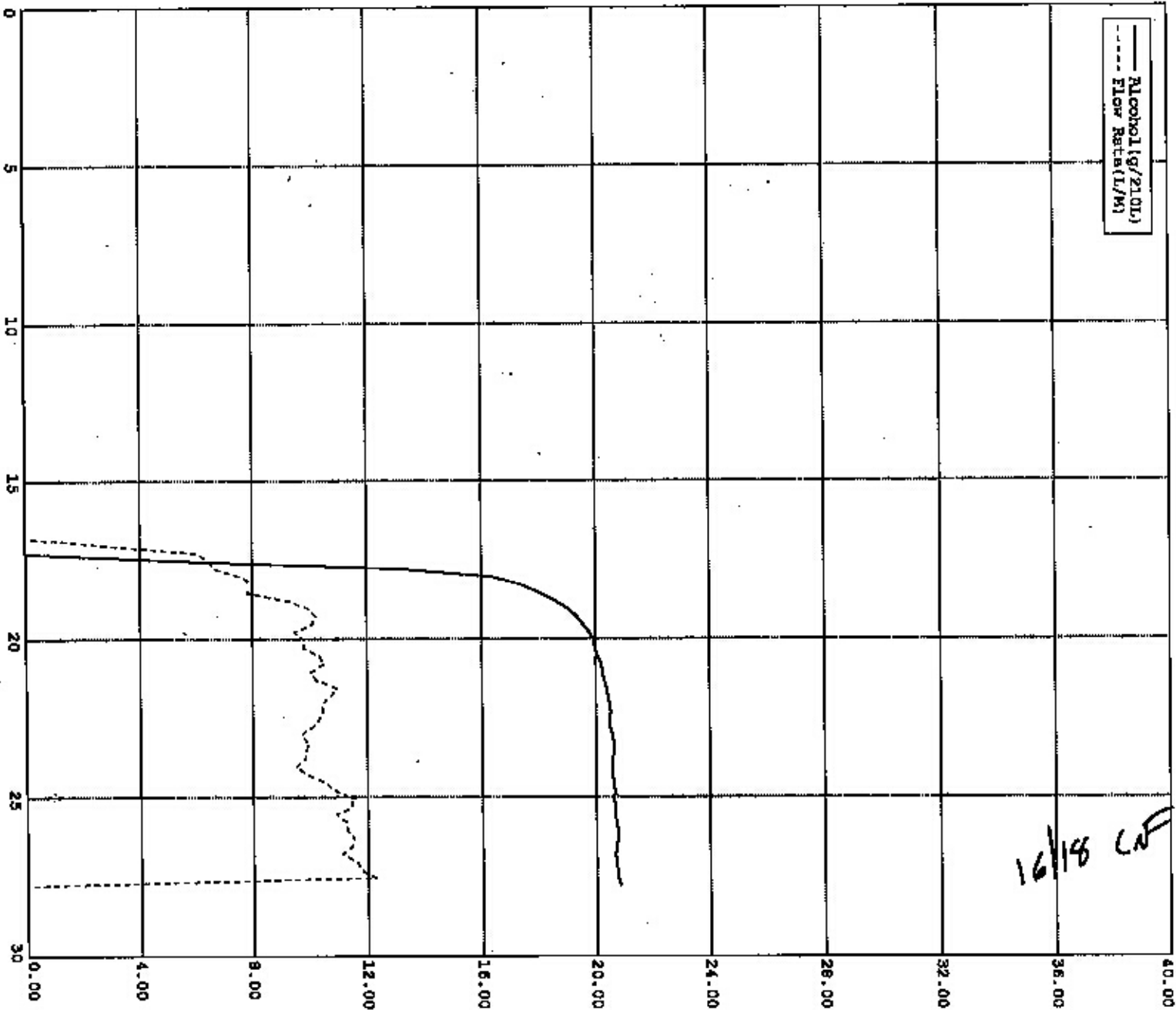
OPERATOR NAME:
 INTERFERENCE ETCR AND IPA
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AE 29.64: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:43
BLANK TEST	0.000	13:44
INTERNAL STANDARD	VERIFIED	13:44
EXTERNAL STANDARD	0.080	13:44
BLANK TEST	0.000	13:45
SUBJECT SAMPLES	INTERFERENCE	13:45

CRF



SUBJECT TEST

Alaska Department of Public Safety
 DATASTAR dnt: 100378

Date: 06/03/2011
 Time: 13:54:18

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

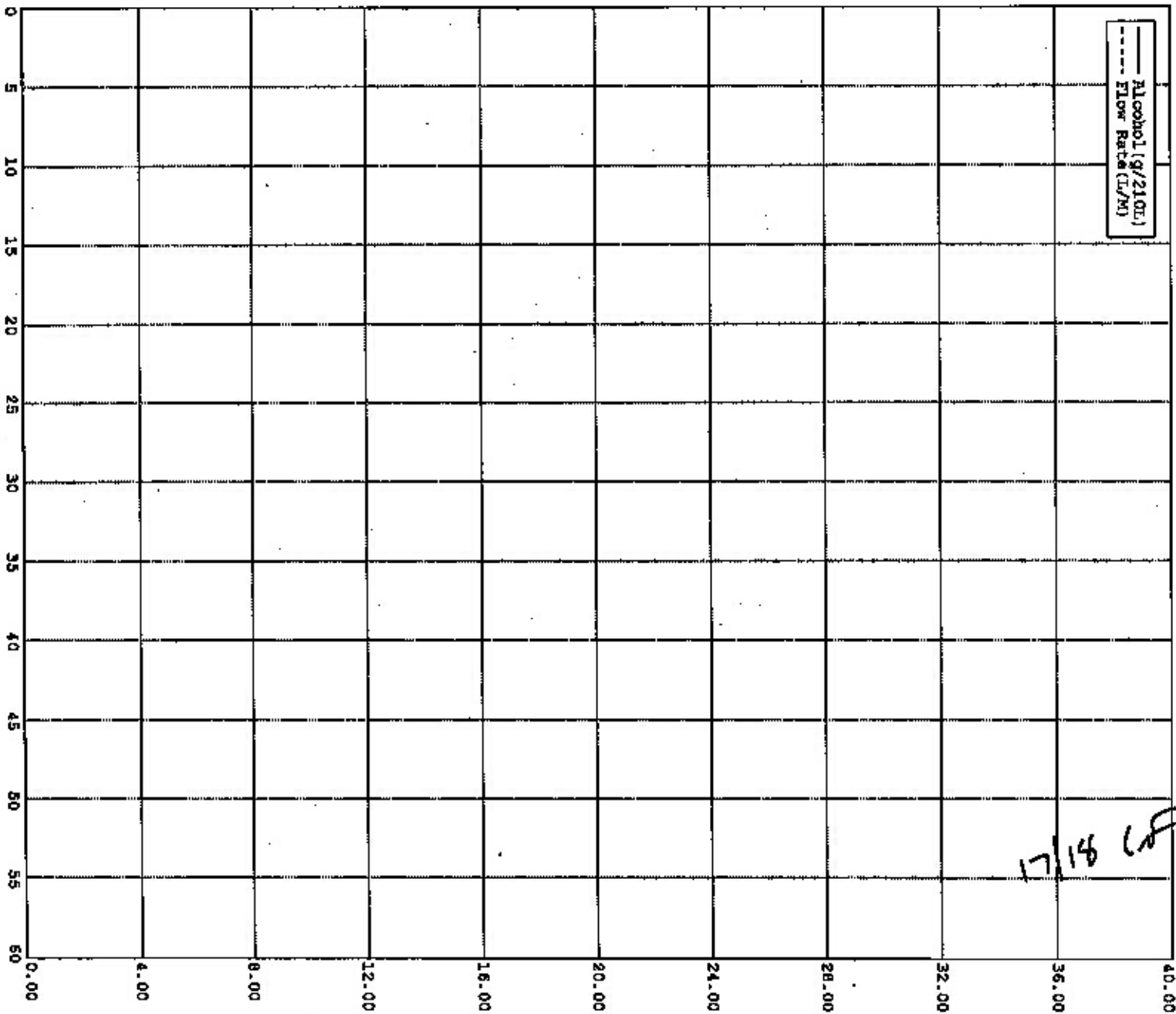
OPERATOR NAME:
 RET XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.64: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:55
BLANK TEST	0.000	13:55
INTERNAL STANDARD	VERIFIED	13:55
EXTERNAL STANDARD	0.079	13:55
BLANK TEST	0.000	13:56

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100378

Date: 06/03/2011
 Time: 14:18:34

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

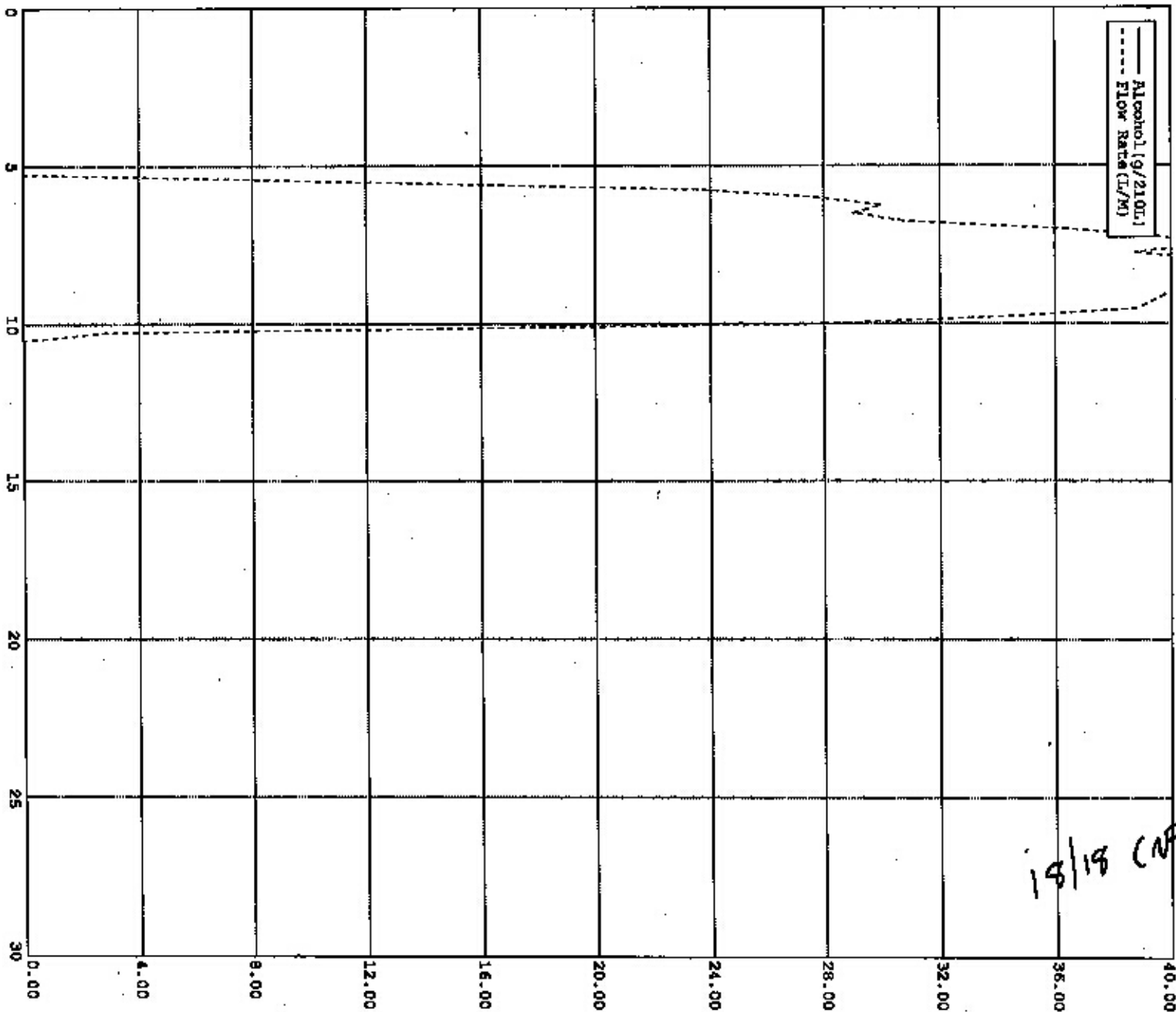
DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.64: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:19
BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:19
EXTERNAL STANDARD	0.080	14:20
BLANK TEST	0.000	14:21
SUBJECT SAMPLE	0.000	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.079	14:22
BLANK TEST	0.000	14:23

CRF



Final page for report

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7/3/2014