

	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 # 100406Analyst CRFDate 10/13/11

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 02811020A1 Exp 2/1/13
 - ii. 0.040g/210L Mnf ILMO Lot 15210040A2 Exp 7/1/12
 - iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 3/1/13
 - iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13
 - v. 0.200g/210L Mnf ILMO Lot 07611200A2 Exp 3/1/13
 - vi. 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 11/17/12
 1. Simulator Calibration Date 12/15/10 SN DR4176
 - ii. Isopropanol - Mnf Guth Lot 10280 Level 0.040 Exp 11/17/12
 1. Simulator Calibration Date 12/16/10 SN SD1198
 - d. 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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DIAGNOSTIC RECORD

Alaska Department of Public Safety
DACANMASTER dmt: 100406

Date: 10/13/2011
Time: 12:58:57

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 46.0°C	PASSED

PUMP INFO

Flow Rate = 1.428 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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CFE

Technician Screen

DATAMASTER dnt: 100406

Date: 10/13/2011
Time: 1:27 PM

Temperatures (°C)

Sample Cell: 49.2°C
Breath Tube: 44.8°C

Current Barometer 29.9 in
Volume (Ltr) 1.52

Settings

Lamp: 1.79 V
Bias: 79 V
Cooler: 1.76 V
Chopper: 519 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.002 V

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CRF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100406

Date: 10/05/2011
Time: 09:07:21

Ca	=	0.1000		
CAL	=	0.968221	0.800	<= CAL < 1.200
b1	=	0.0007	0.0000	<= b1 < 0.0010
b2	=	0.0060	0.0010	<= b2 < 0.0100
b3	=	0.0003	0.0000	<= b3 < 0.0040
Xq	=	0.1008	0.0500	<= Xq < 0.2000
a21	=	1.202874	1.050	<= a21 < 1.300
a31	=	0.483296	0.300	<= a31 < 0.800

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SUBJECT TEST

Alaska Department of Public Safety
 DRUMMASTER dmt: 100406

Date: 10/13/2011
 Time: 13:46:03

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

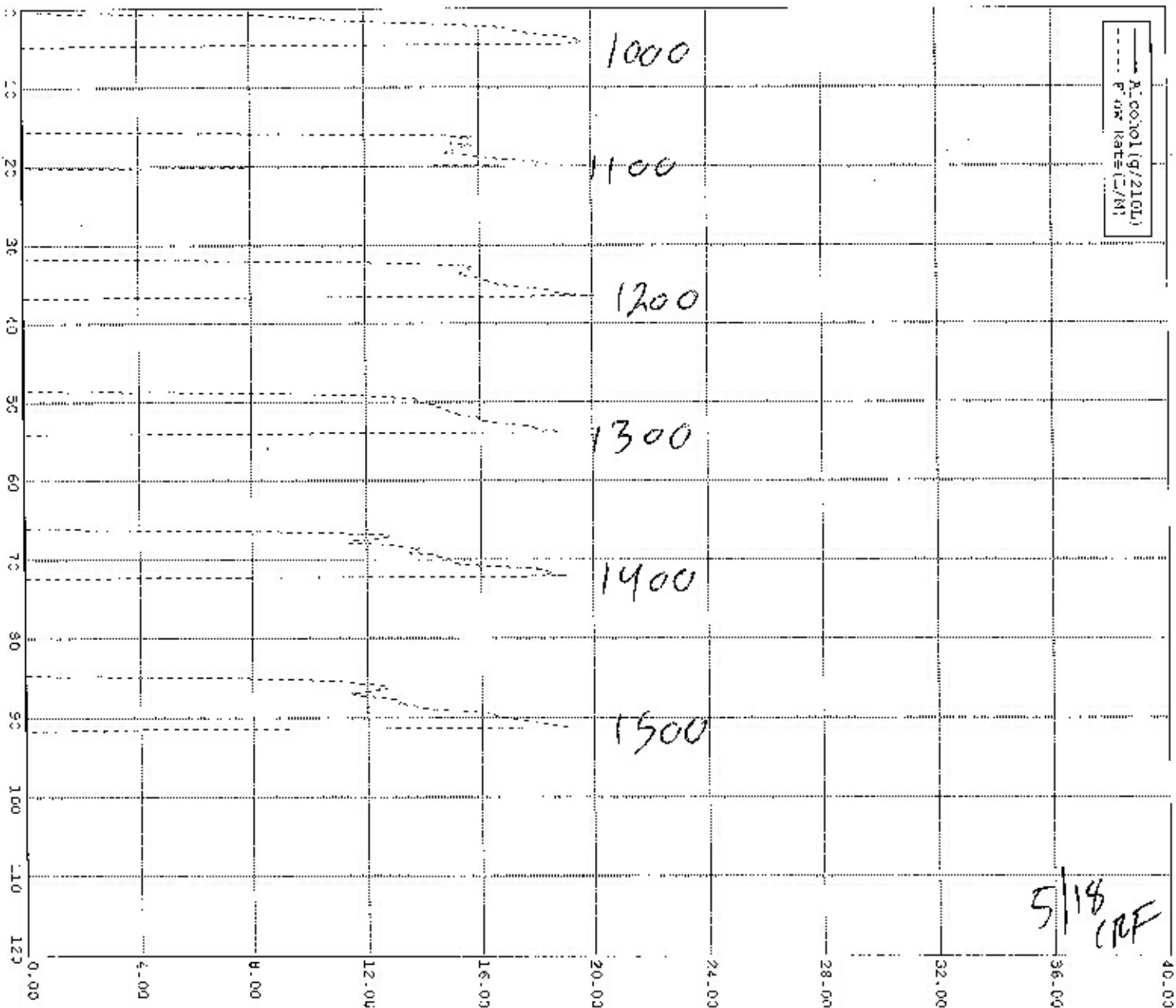
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.080
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.080	13:47
BLANK TEST	0.000	13:48
SUBJECT SAMPLE	0.000	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.080	13:51
BLANK TEST	0.000	13:52

CRF



LINERITY CHECK

Alaska Department of Public Safety
DATAMASTER dmc: 100406

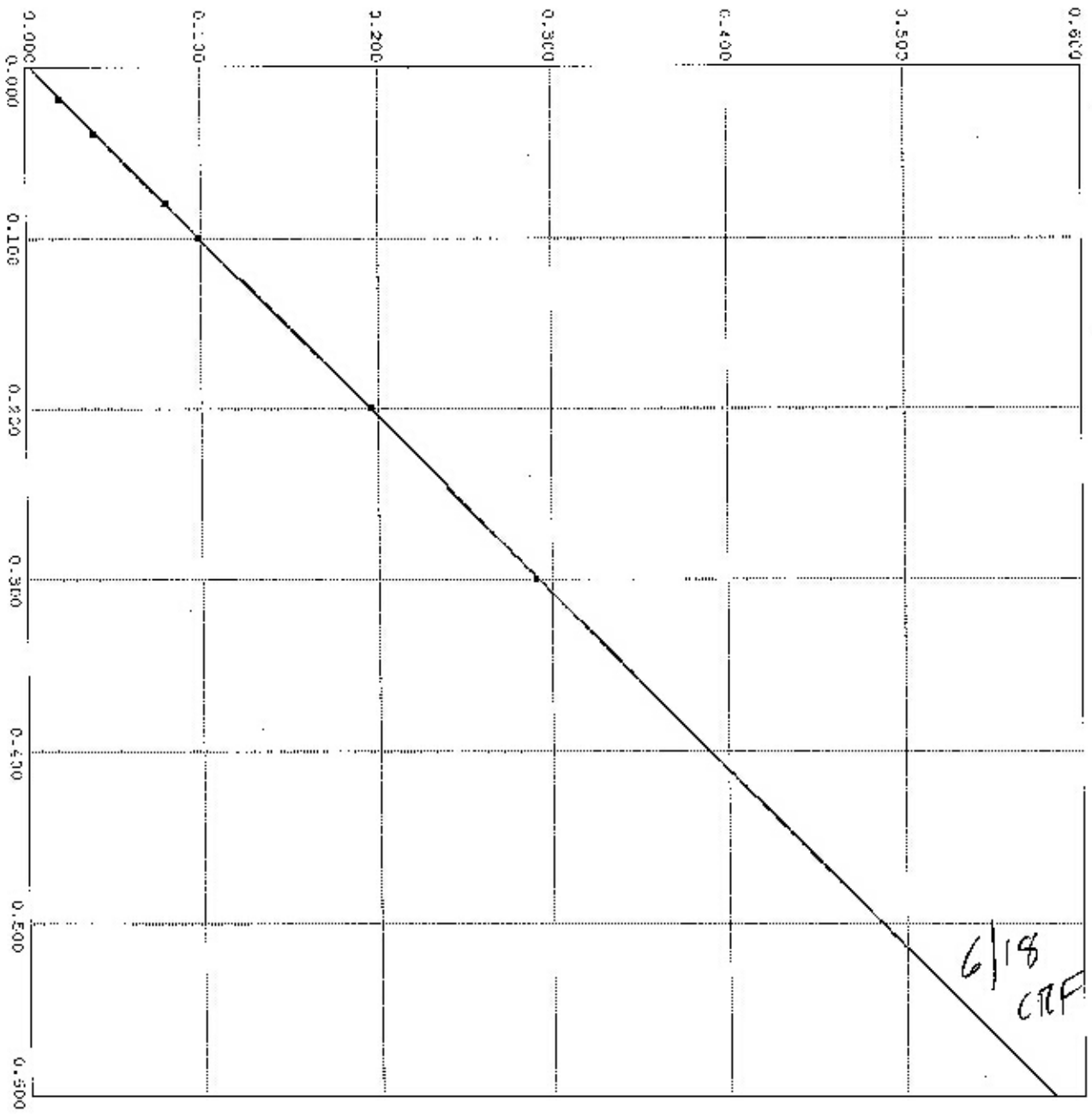
Date: 10/13/2011
Time: 14:10:20

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0004
0.039	0.0400	0.0000
0.079	0.0800	0.0000
0.099	0.1000	0.0000
0.199	0.1968	0.0004
0.299	0.2916	0.0009

SLOPE = 0.969370
R² = 0.999948

CRF



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATA MASTER Cmt: 100406

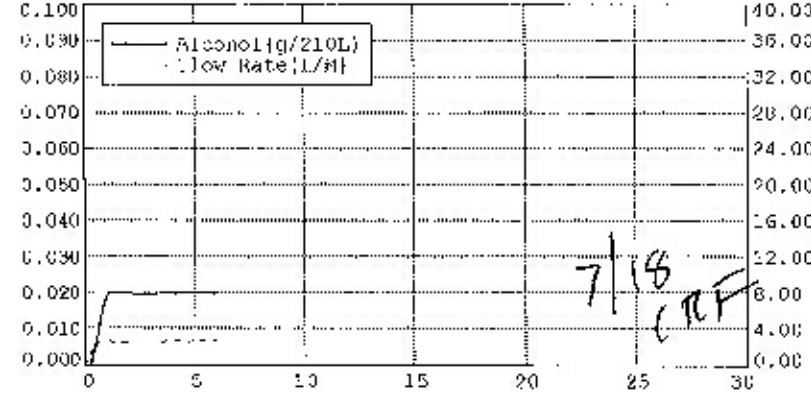
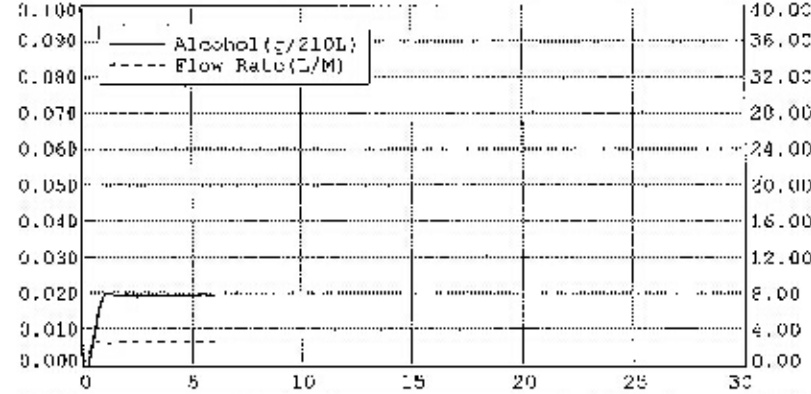
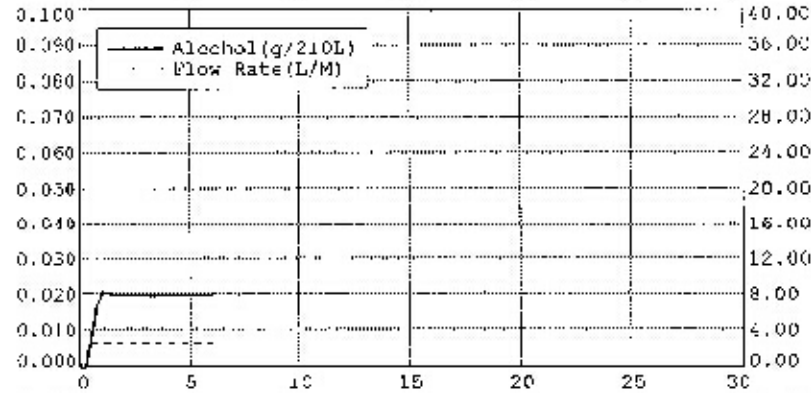
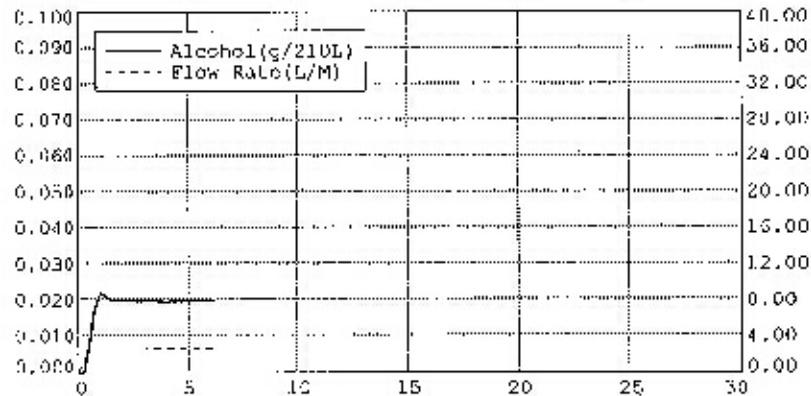
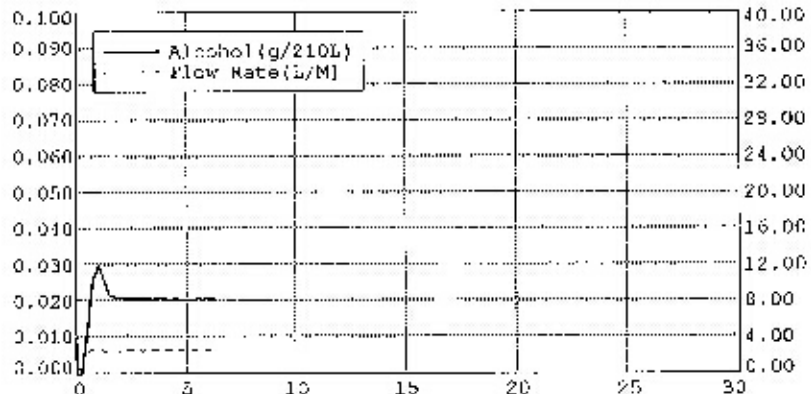
Date: 10/13/2011
 Time: 14:10:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.92: 0.019
 LOT #: 02911020A1
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:11
EXTERNAL STANDARD	0.021	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.020	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.020	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.020	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.020	14:16
BLANK TEST	0.000	14:17

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

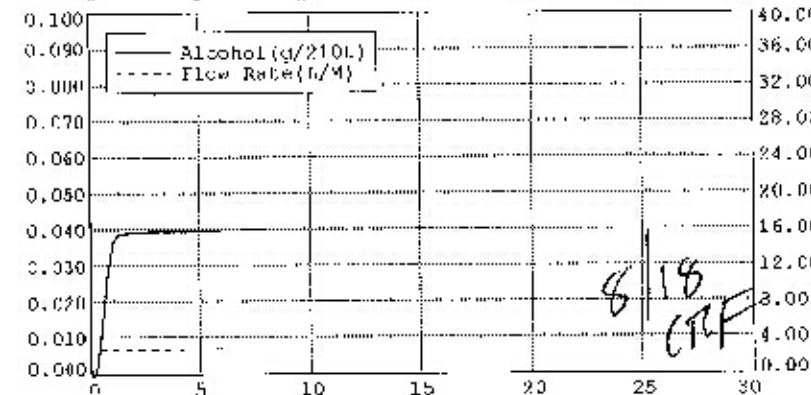
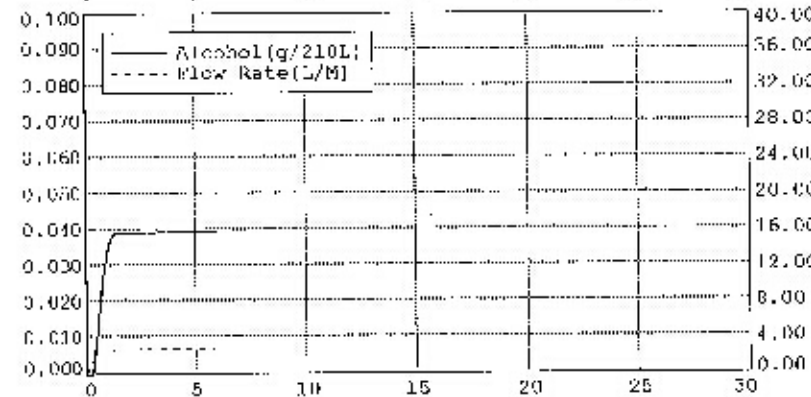
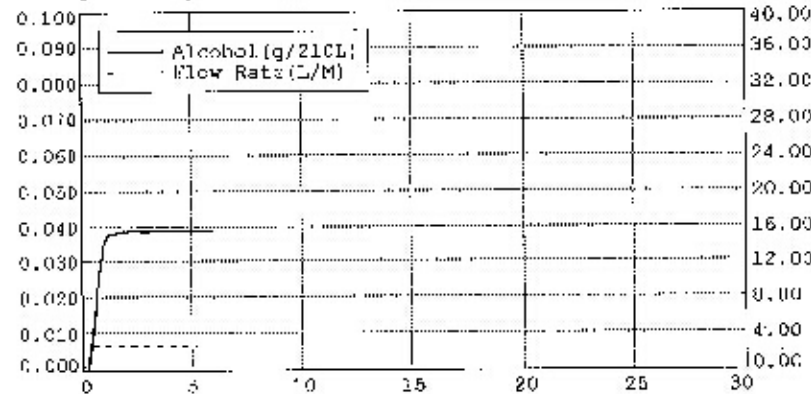
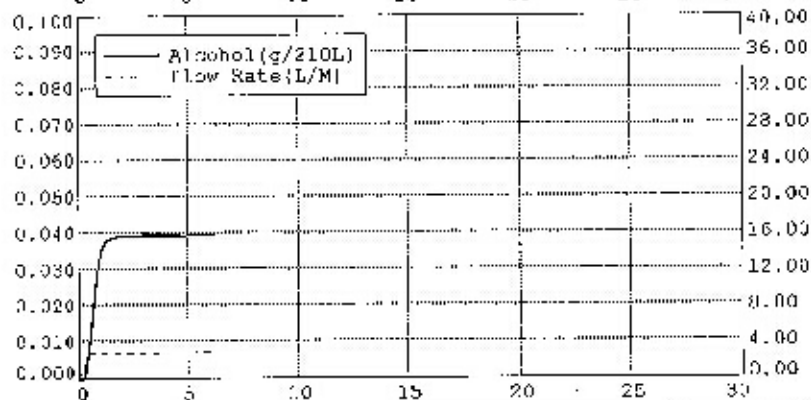
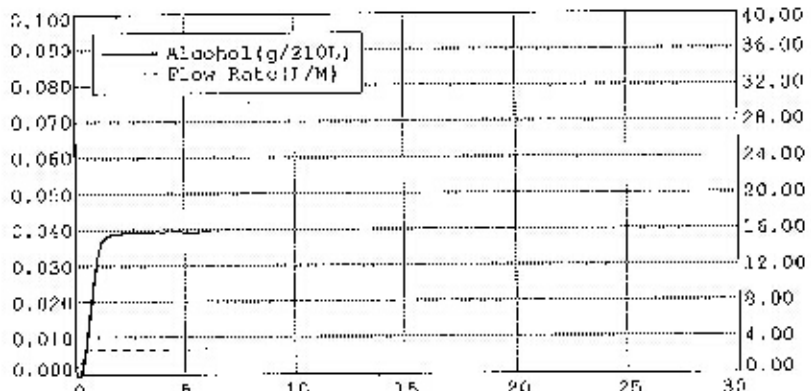
Alaska Department of Public Safety
 DATAMASTER dnt: 100406

Date: 10/13/2011
 Time: 14:18:03

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.92; 0.039
 LOT #: 15210040A2
 EXPIRATION: 07/01/2012

BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:19
EXTERNAL STANDARD	0.040	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.040	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.040	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.040	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.040	14:23
BLANK TEST	0.000	14:24

Average = 0.0400
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

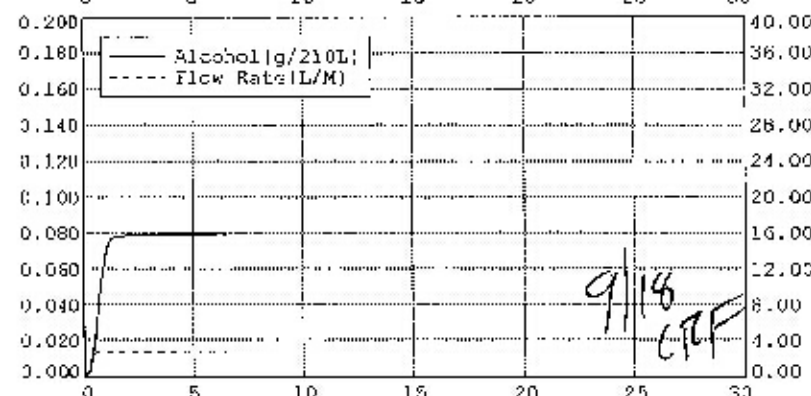
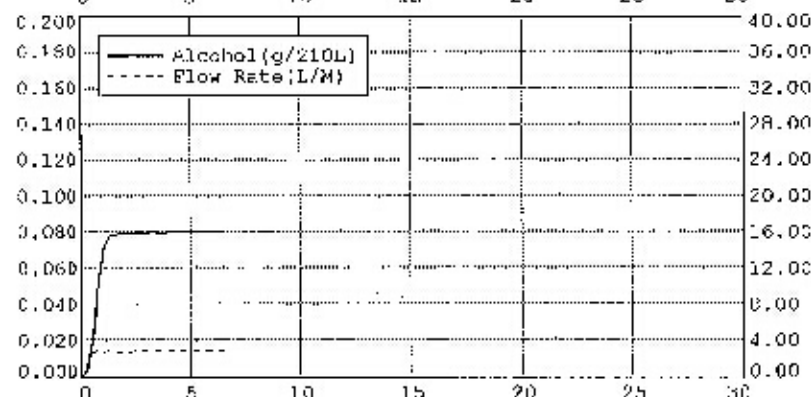
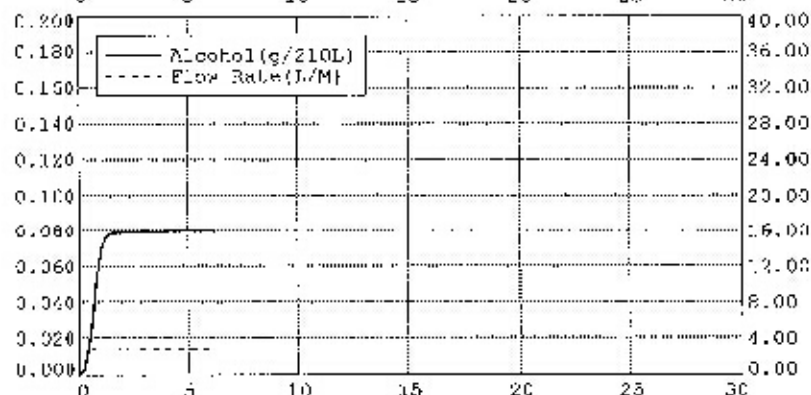
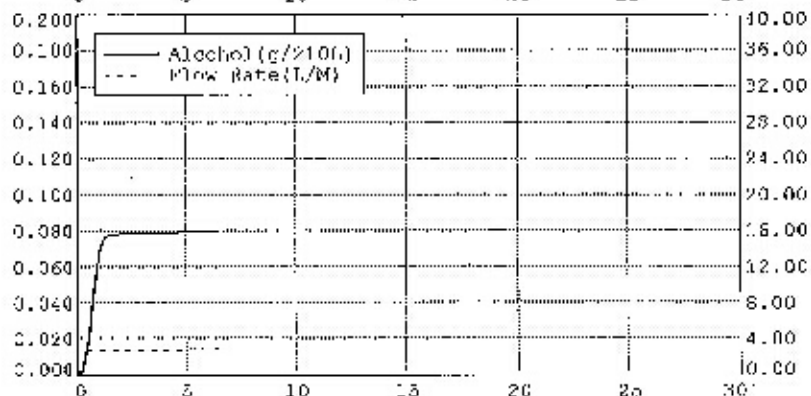
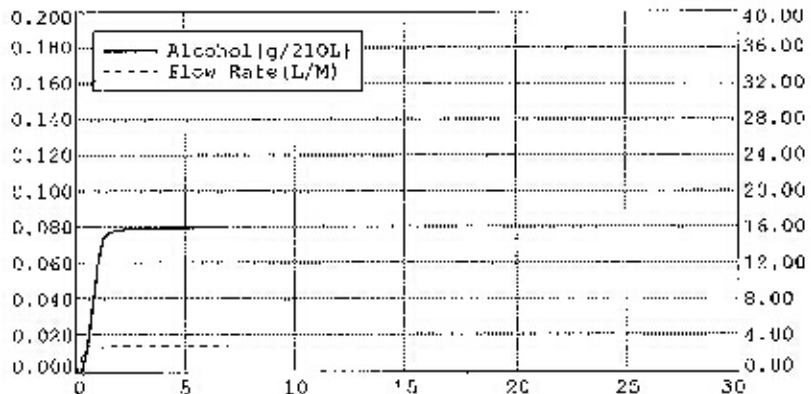
Alaska Department of Public Safety
 DATAMASTER dmt: 100106

Date: 10/13/2011
 Time: 14:25:47

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92; 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/31/2013

BLANK TEST	0.000	14:26
INTERNAL STANDARD	VERIFIED	14:27
EXTERNAL STANDARD	0.080	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.080	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.080	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.080	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.000	14:31
BLANK TEST	0.000	14:32

Average = 0.0800
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

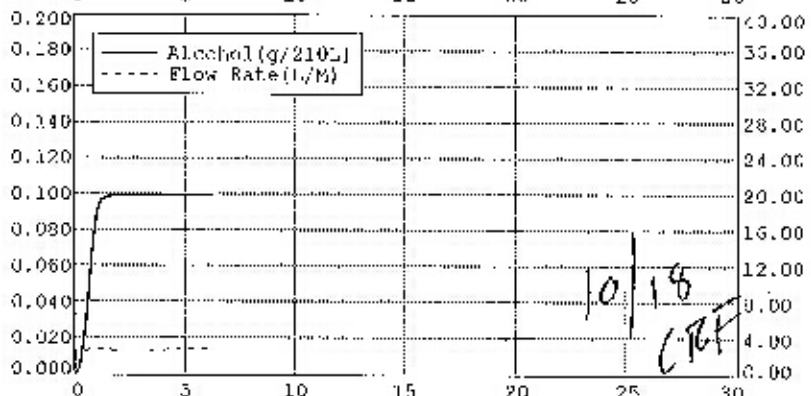
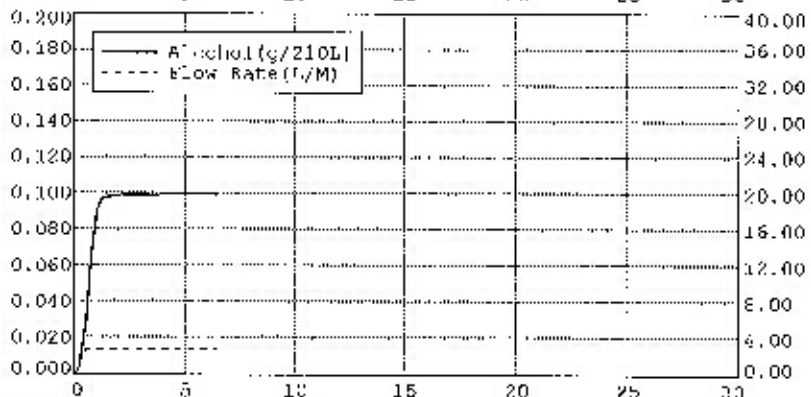
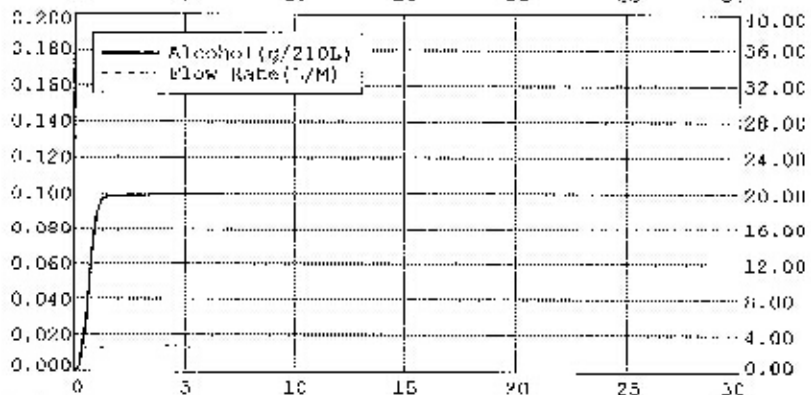
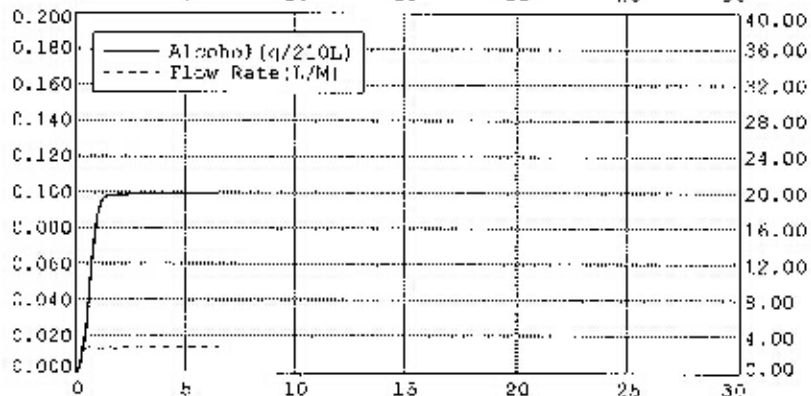
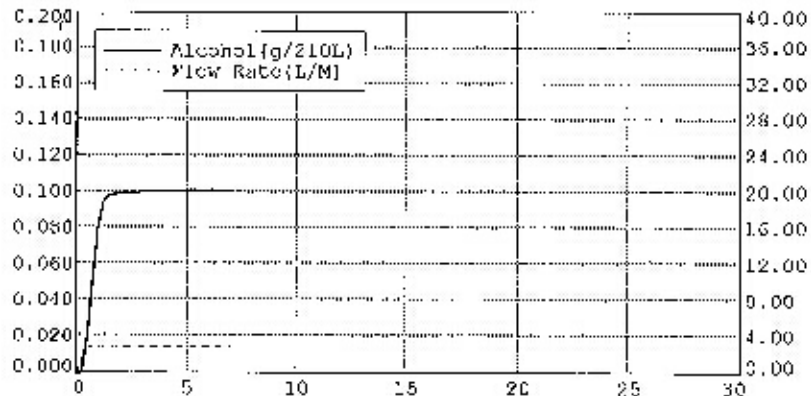
Alaska Department of Public Safety
 DATAMASTER dnt: 100406

Date: 10/13/2011
 Time: 14:33:47

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 29.92: 0.099
 LOT #: 076.1100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:35
INTERNAL STANDARD	VERIFIED	14:35
EXTERNAL STANDARD	0.100	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.100	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.100	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.100	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.100	14:39
BLANK TEST	0.000	14:40

Average = 0.1000
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dnt: 100406

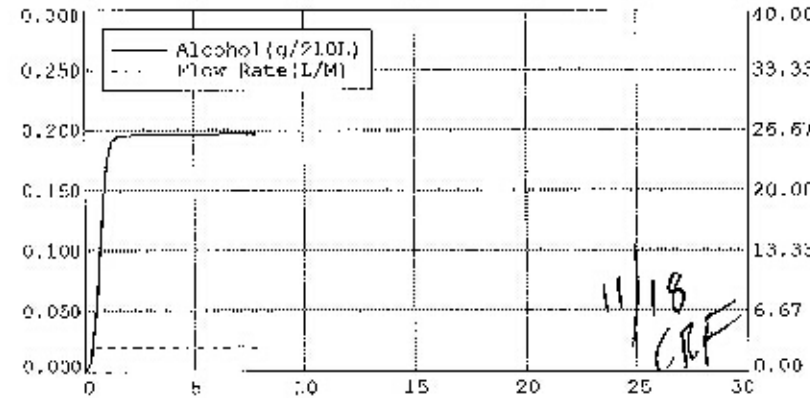
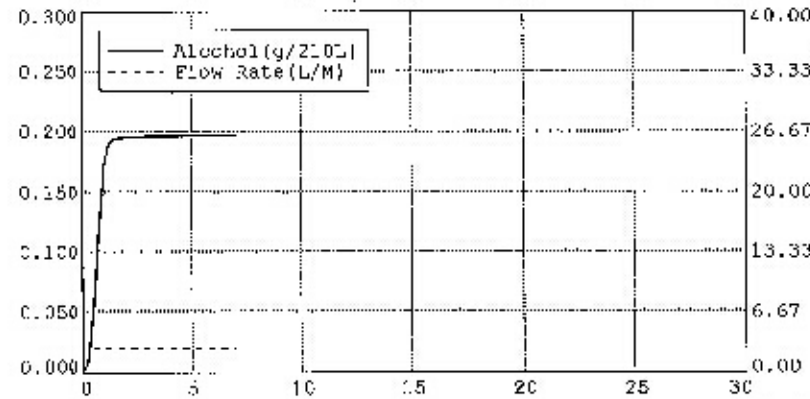
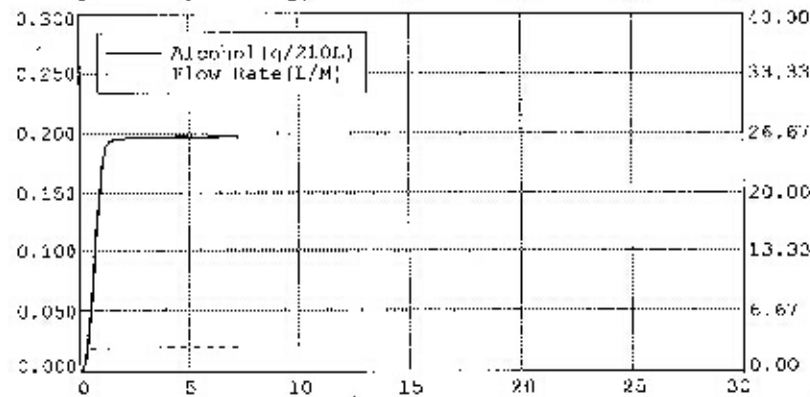
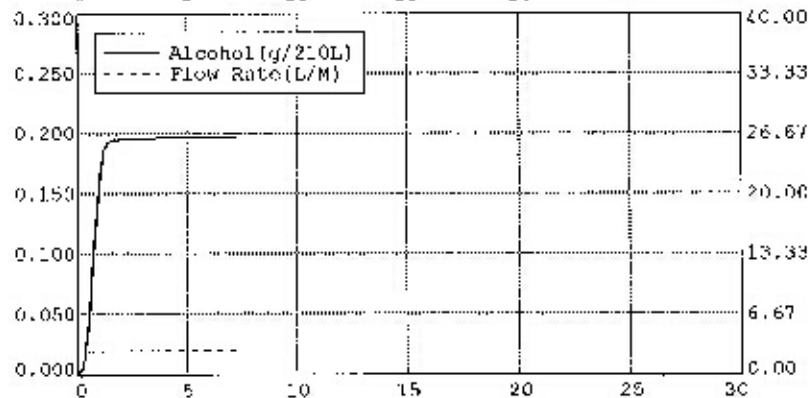
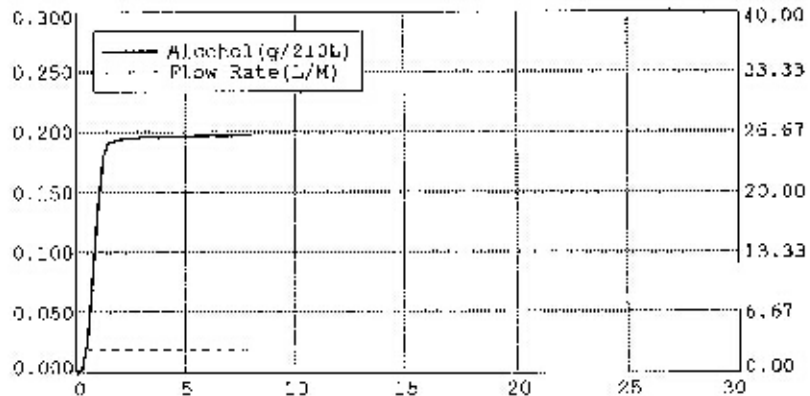
Date: 10/13/2011
 Time: 14:42:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 TARGET AT 29.92: 0.199
 LOT #: 07611200A2
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:44
INTERNAL STANDARD	VERIFIED	14:44
EXTERNAL STANDARD	0.197	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.196	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.197	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.197	14:48
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.197	14:49
BLANK TEST	0.000	14:50

Average = 0.1968
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100406

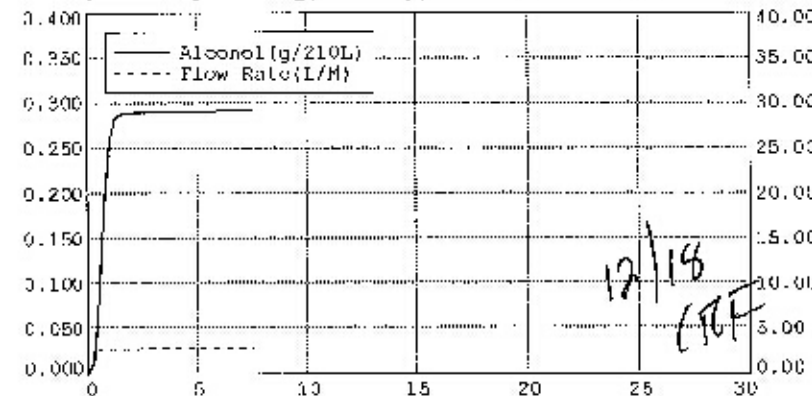
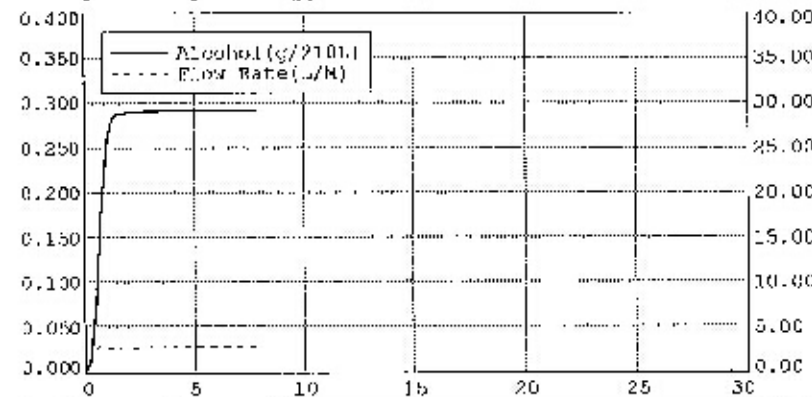
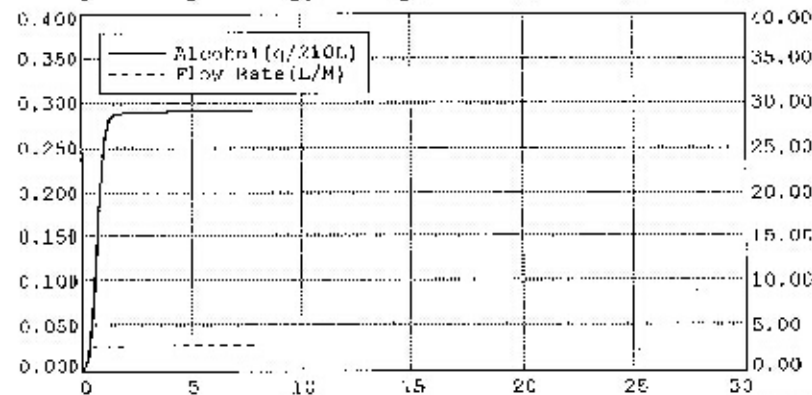
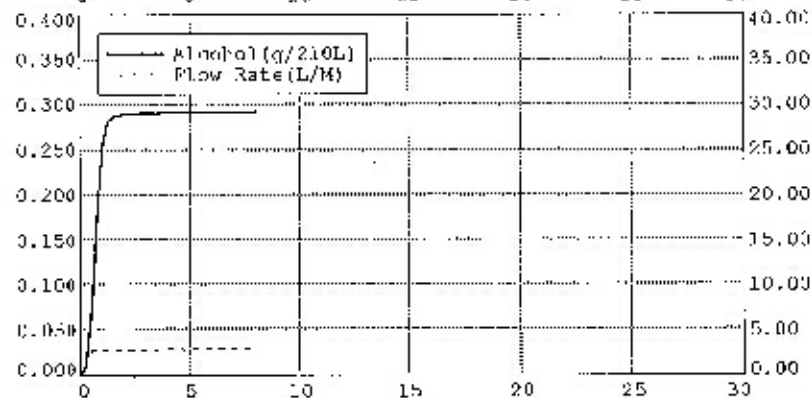
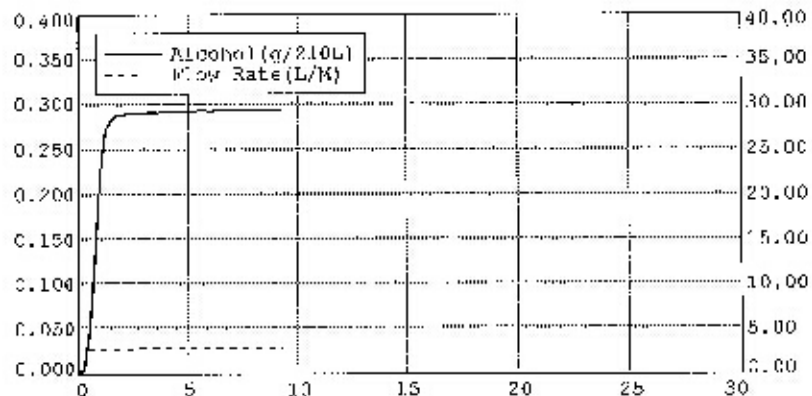
Date: 10/13/2011
Time: 14:51:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.92: 0.299
LOT #: 07611300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:53
EXTERNAL STANDARD	0.293	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.292	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.291	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.291	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.291	14:57
BLANK TEST	0.000	14:58

Average = 0.2916
Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
 DISTRICT: 100406

Date: 10/13/2011
 Time: 15:12:46

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

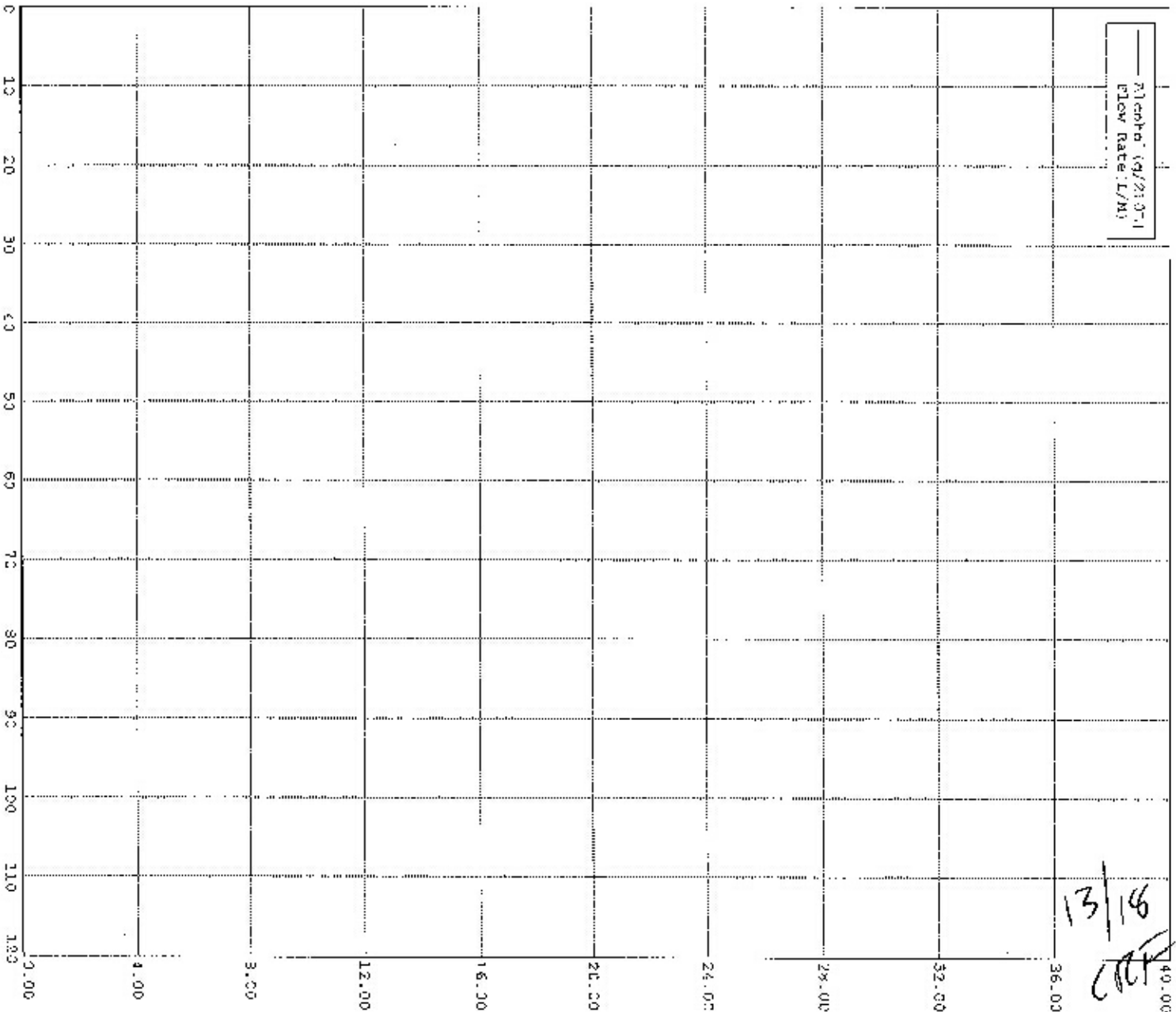
OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TAGGED AT 29.91: 0.078
 LOT #: 0751108CAL
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:13
BLANK TEST	0.000	15:13
INTERNAL STANDARD	VALIDATED	15:14
EXTERNAL STANDARD	0.080	15:14
BLANK TEST	0.000	15:15
SUBJECT SAMPLE	INCOMPLETE	15:17

CF



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dttc: 100906

Date: 10/13/2011
 Time: 15:27:38

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

DEPT/AGENCY:

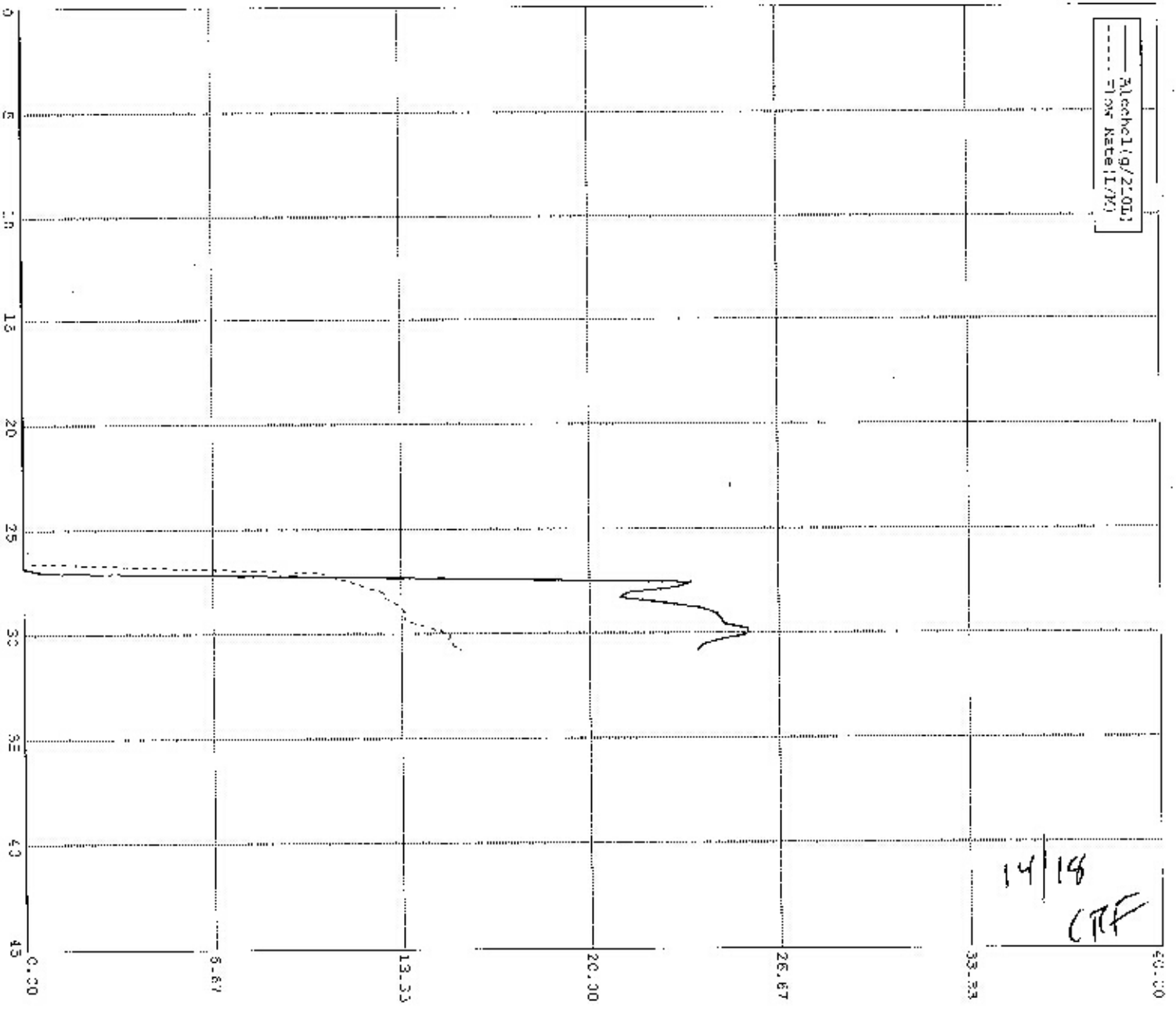
XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.50: 0.079
 IOT #: 07911083AL
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:29
BLANK TEST	0.000	15:29
INTERNAL STANDARD	VERIFIED	15:29
EXTERNAL STANDARD	0.080	15:29
BLANK TEST	0.000	15:30
SUBJECT SAMPLE	INVALID	15:31

CRF



SUBJECT TEST

Alaska Department of Public Safety
 DIAGNOSTIC Unit: 100406

Date: 10/16/2011
 Time: 09:06:43

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.35: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/31/2013

DIAGNOSTIC CHECK	PASSED	09:07
BLANK TEST	0.000	09:07
INTERNAL STANDARD	VERIFIED	09:07
EXTERNAL STANDARD	3.078	09:08
BLANK TEST	2.000	09:05
SUBJECT SAMPLE	INTERFERENCE	09:09

CRF



SUBJECT TEST

Alaska Department of Public Safety
PARAMETER date: 100906

Date: 10/14/2011
Time: 09:20:22

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

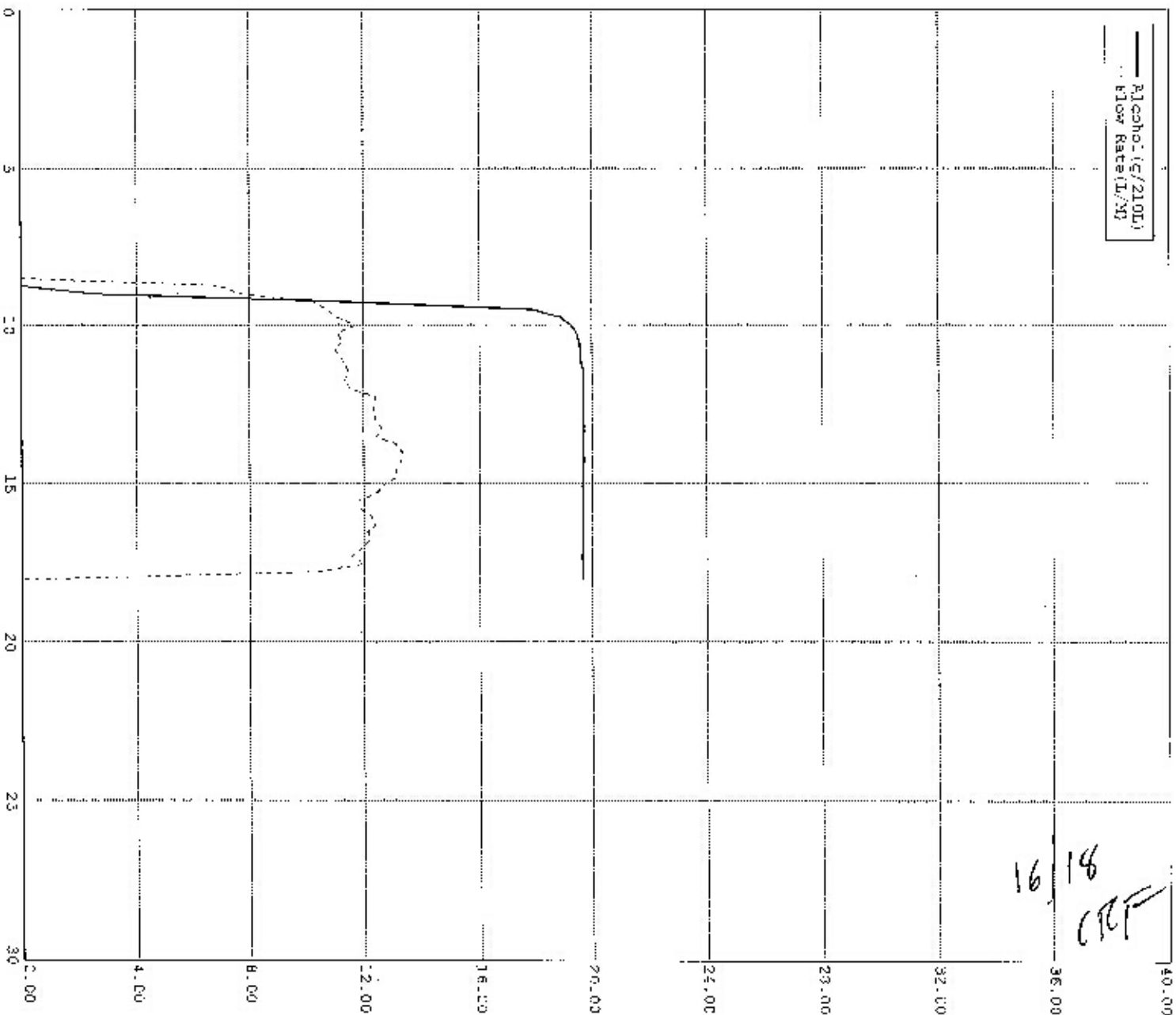
OPERATOR NAME:
INTERFERENCE FROM AND IPA
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.39: 0.078
LOT #: 07511082A1
EXPIRATION: 03/01/2013

DESCRIPTION	RESULT	TIME
DAGNOSTIC CHECK	PASSED	09:21
BLANK TEST	0.000	09:21
INTERNAL STANDARD	VERIFIED	09:21
EXTERNAL STANDARD	0.078	09:21
RIANR TRSP	0.000	09:22
SUBJECT SAMPLE	INTERFERENCE	09:23

CRT



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CRT

SUBJECT TEST

Alaska Department of Public Safety
 DATAPASTER dmc: 100406

Date: 10/13/2011
 Time: 15:35:52

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

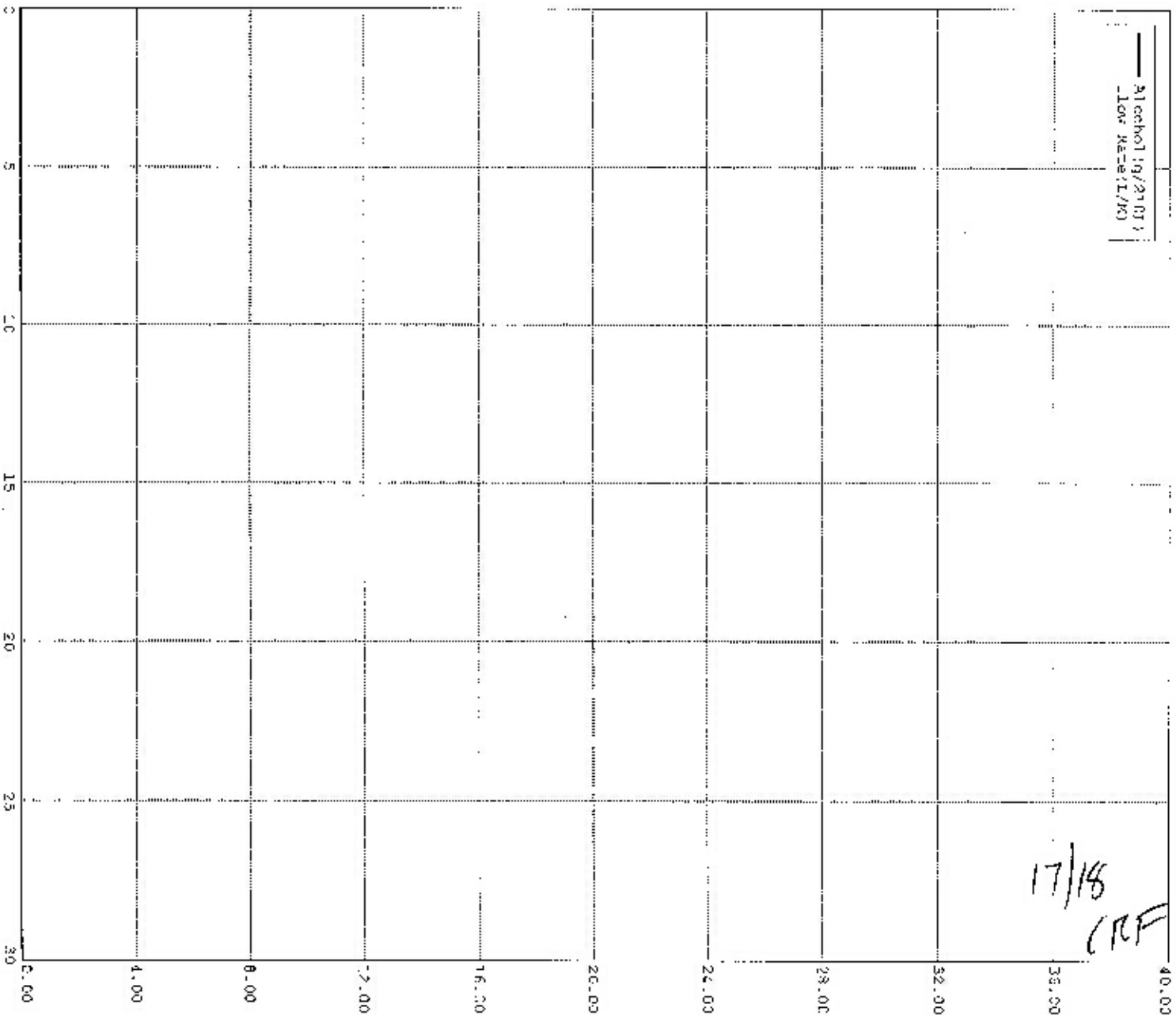
DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TRST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET RT 29.90: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:36
BLANK TEST	0.000	15:37
INTERNAL STANDARD	VERIFIED	15:37
EXTERNAL STANDARD	0.080	15:37
BLANK TEST	0.000	15:38

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
DATABASE dmc: 100406

Date: 10/14/2011
Time: 09:55:40

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

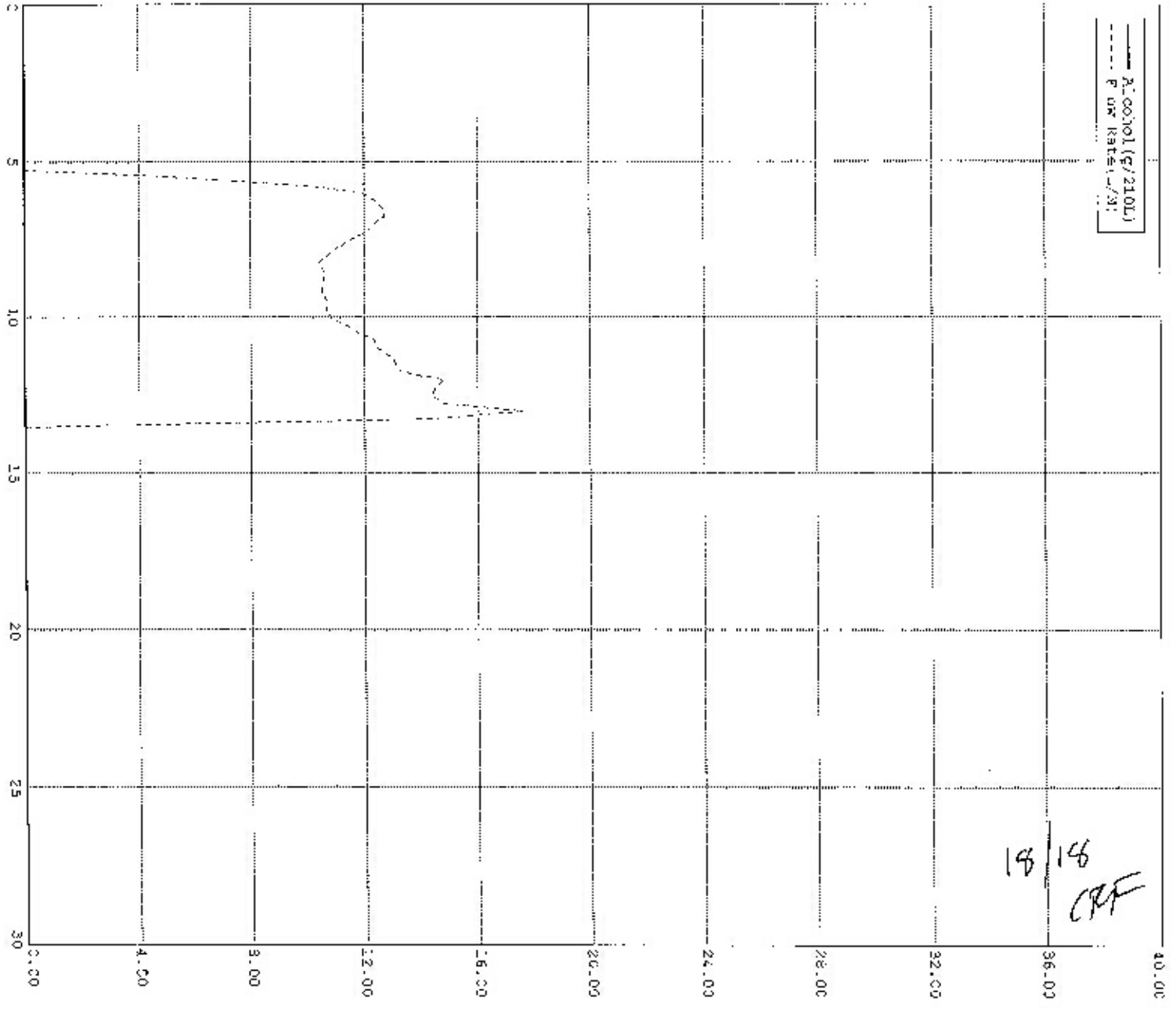
OPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.39: 0.078
LOT #: 07511082A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:56
BLANK TEST	0.000	09:56
INTERNAL STANDARD	VERIFIED	09:56
EXTERNAL STANDARD	0.078	09:57
BLANK TEST	0.000	09:58
SUBJECT SAMPLE	0.000	09:58
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.078	09:59
BLANK TEST	0.000	10:00

CRF



10/14/11
CRF

Final page for report

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2/18/2014