

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100685 Analyst CRF Start Date 4/9/12

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 3/1/13

ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13

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 Guth Lot 11120 Exp 7/19/13

1. Simulator S/N SD1176 Date Calibrated 8/17/11

vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/13

1. Simulator S/N DR4176 Date Calibrated 2/21/12

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/13

1. Simulator S/N SD1199 Date Calibrated 1/11/12

ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/12

1. Simulator S/N DR6267 Date Calibrated 1/10/12

iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/13

1. Simulator S/N SD1202 Date Calibrated 8/17/11

d. 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

End Date 4/10/12

CRF
1/19

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dnt: 100685

Date: 04/09/2012
Time: 15:01:05

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 5.829 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

Technician Screen

DATAMASTER dmt: 100685

Date: 04/09/2012
Time: 4:06 PM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 47.6°C

Current Barometer 30.0 in
Volume (Ltr) 1.52

Settings

Lamp: 1.69 V
Bias: 80 V
Cooler: 1.67 V
Chopper: 542 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.014 V

CRF
3/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DANANASTER dnt: 100685

Date: 10/24/2011

Time: 07:27:49

Ca = 0.1000

CAL = 0.998718 0.800 <= CAL < 1.200

b1 = 0.0009 0.0000 <= b1 < 0.0040

b2 = 0.0053 0.0010 <= b2 < 0.0100

b3 = 0.0003 0.0000 <= b3 < 0.0040

Xq = 0.0781 0.0500 <= Xq < 0.2000

a21 = 1.161762 1.050 <= a21 < 1.300

a31 = 0.498372 0.300 <= a31 < 0.800

CRF
4/19

SUBJECT TEST

Alaska Department of Public Safety
 LABORATORY dmc: 100685

Date: 04/09/2012
 Time: 16:09:20

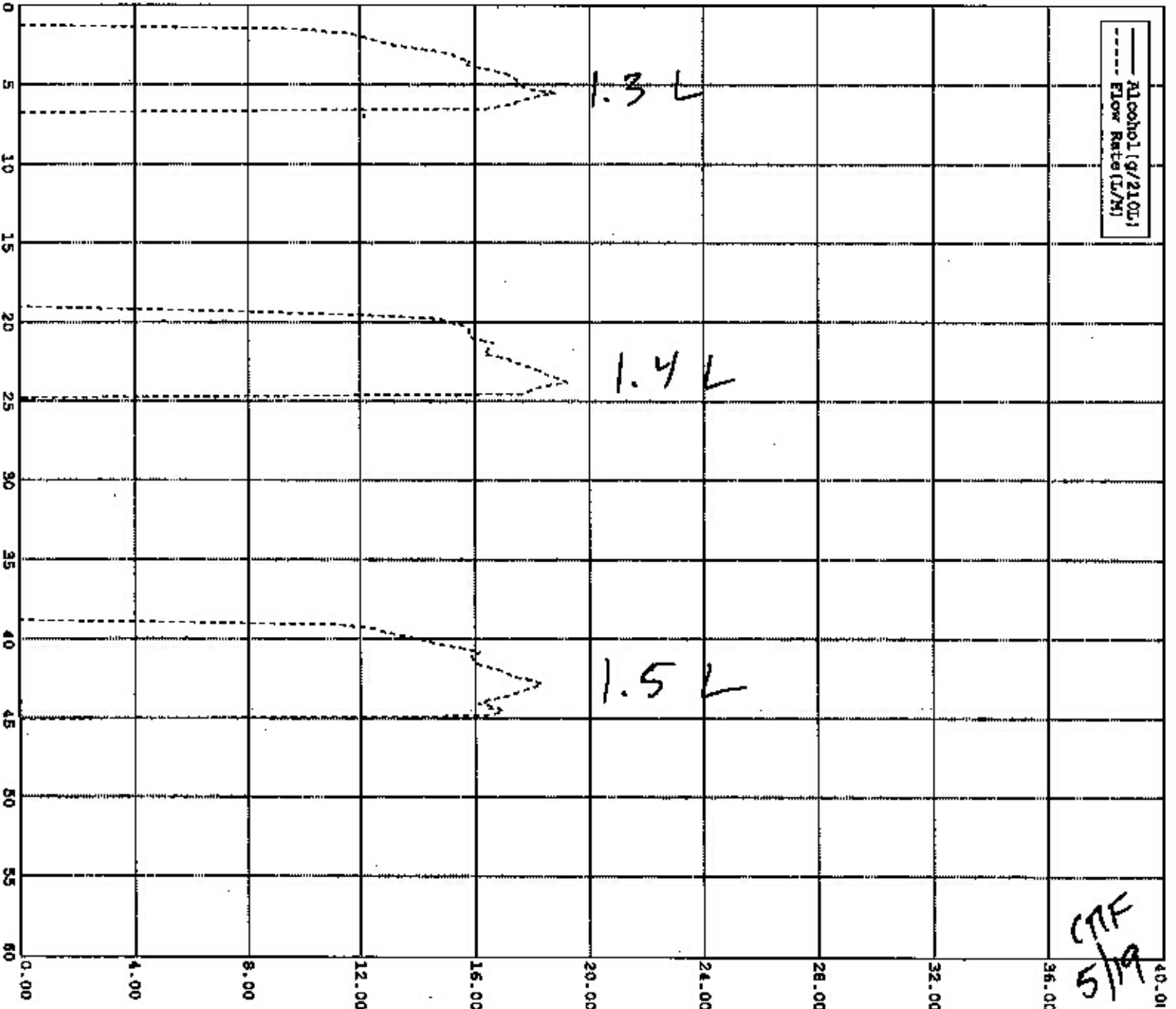
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.97: 0.080
 LOT #: 07511080AL
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	16:10
BLANK TEST	0.000	16:10
INTERNAL STANDARD	VERIFIED	16:10
EXTERNAL STANDARD	0.080	16:10
BLANK TEST	0.000	16:11
SUBJECT SAMPLE	0.000	16:12
BLANK TEST	0.000	16:13
EXTERNAL STANDARD	0.080	16:13
BLANK TEST	0.000	16:14



LINEARITY CHECK

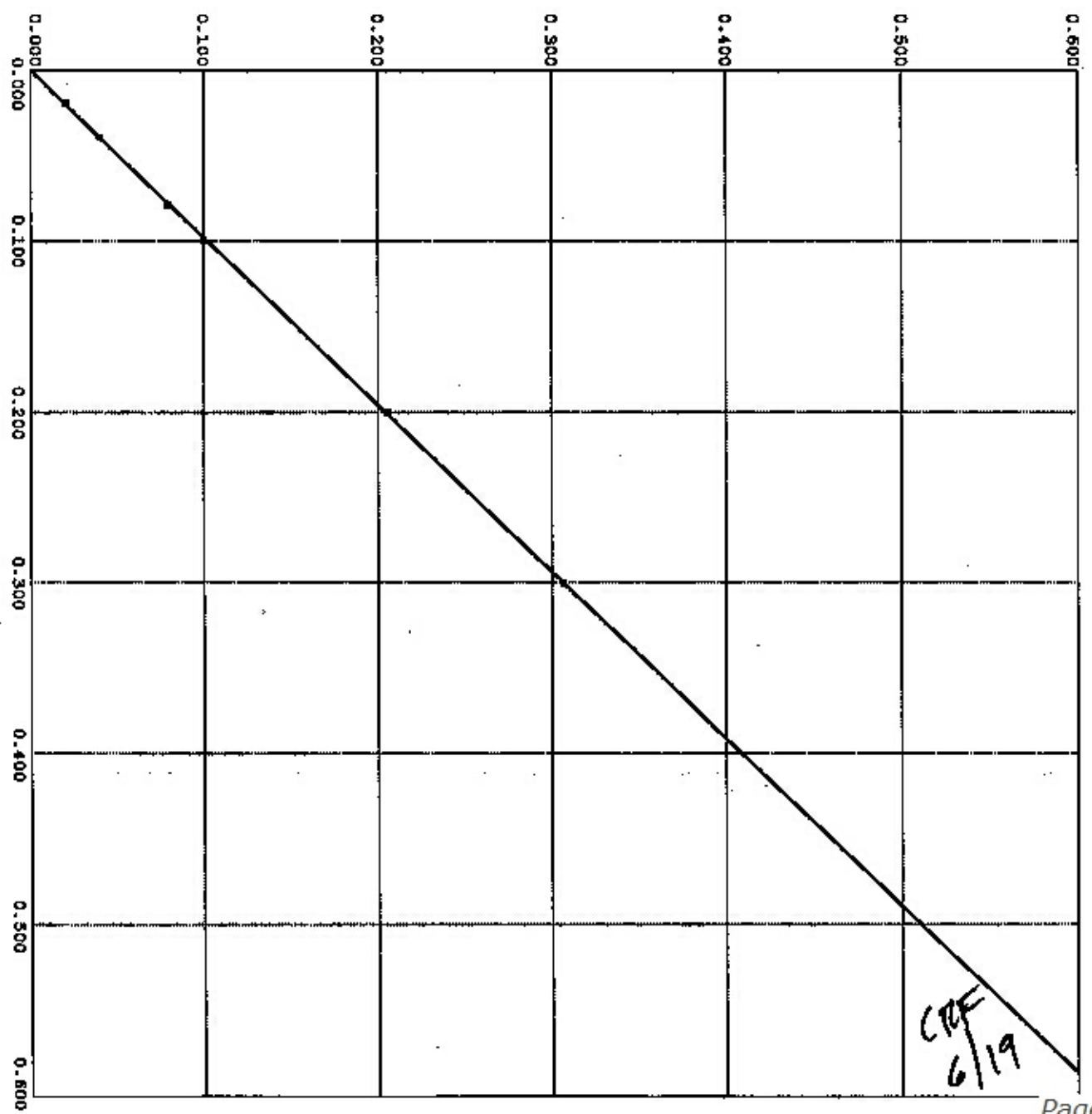
Alaska Department of Public Safety
 DATANMASTER dmc: 100685

Date: 04/10/2012
 Time: 09:14:14

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0207	0.0002
0.039	0.0406	0.0001
0.079	0.0758	0.0004
0.099	0.1009	0.0003
0.200	0.2065	0.0004
0.300	0.3070	0.0003

SLOPE = 1.023562
 R² = 0.999901



LINEARITY CHECK: Control Test 1

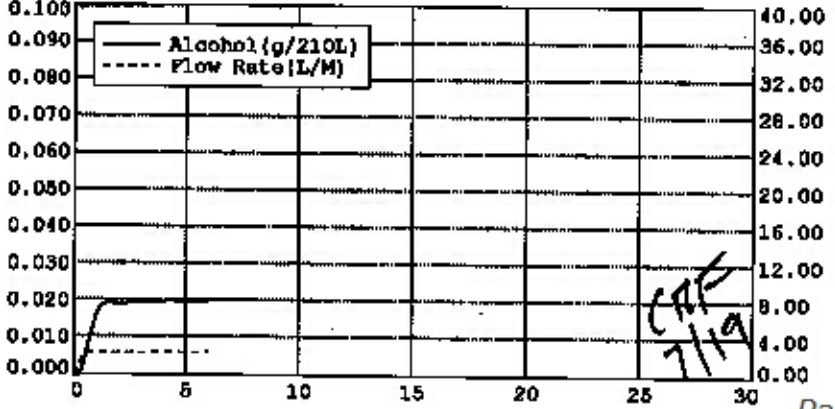
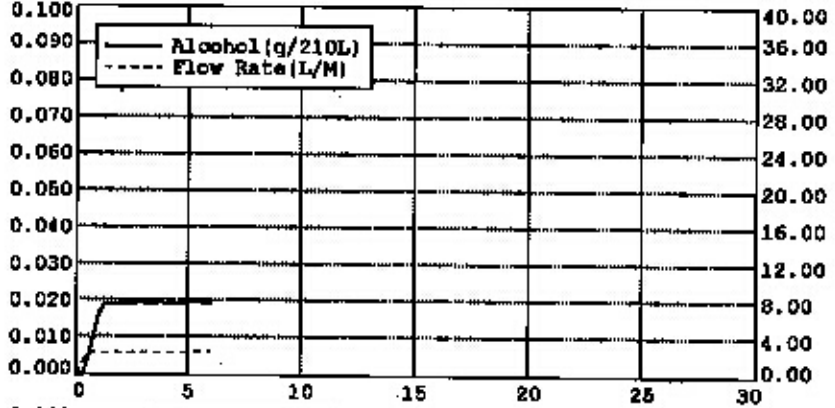
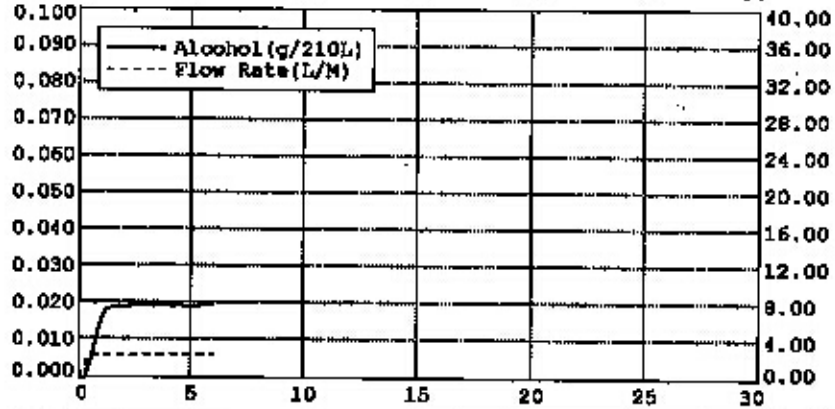
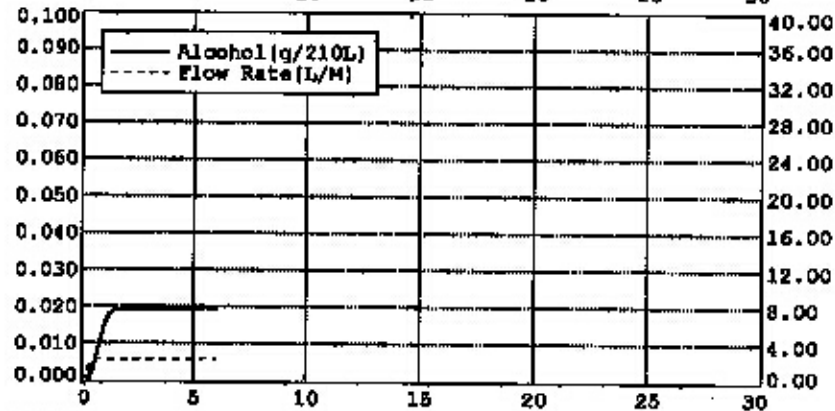
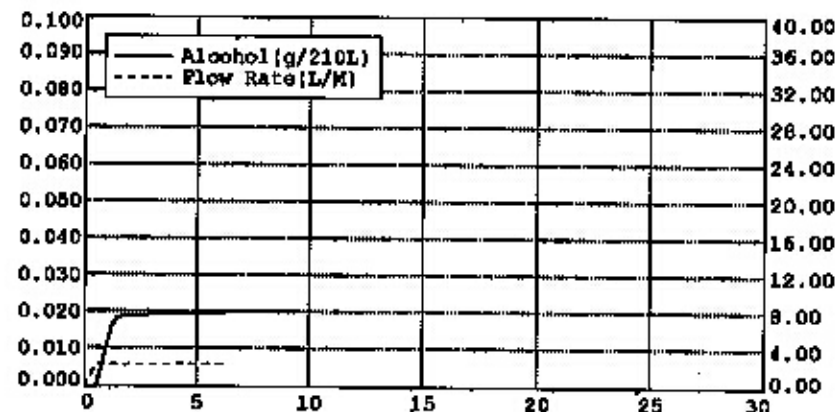
Alaska Department of Public Safety
 DATAMASTER dnt: 100685

Date: 04/10/2012
 Time: 09:14:15

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.78: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:16
INTERNAL STANDARD	VERIFIED	09:16
EXTERNAL STANDARD	0.020	09:16
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.020	09:17
BLANK TEST	0.000	09:18
EXTERNAL STANDARD	0.020	09:18
BLANK TEST	0.000	09:19
EXTERNAL STANDARD	0.020	09:19
BLANK TEST	0.000	09:20
EXTERNAL STANDARD	0.020	09:20
BLANK TEST	0.000	09:21

Average = 0.0207
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

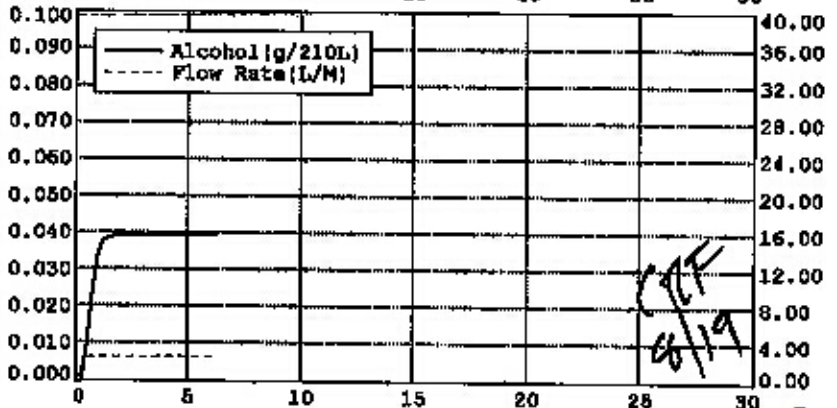
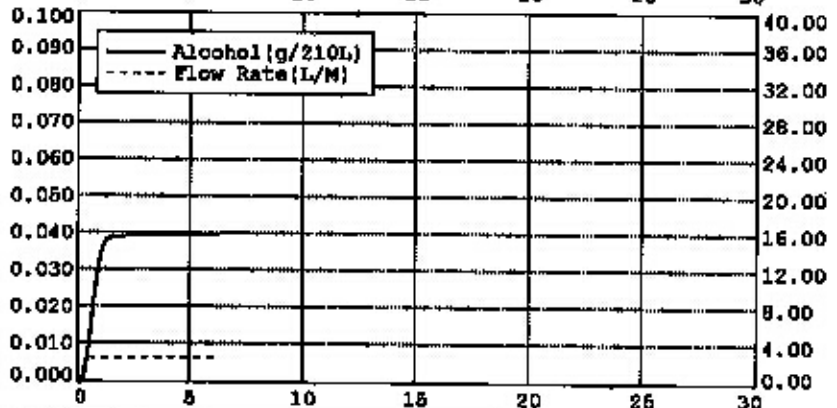
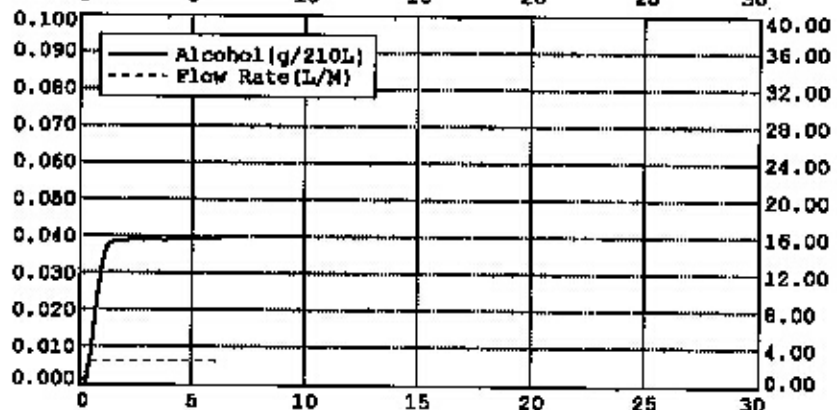
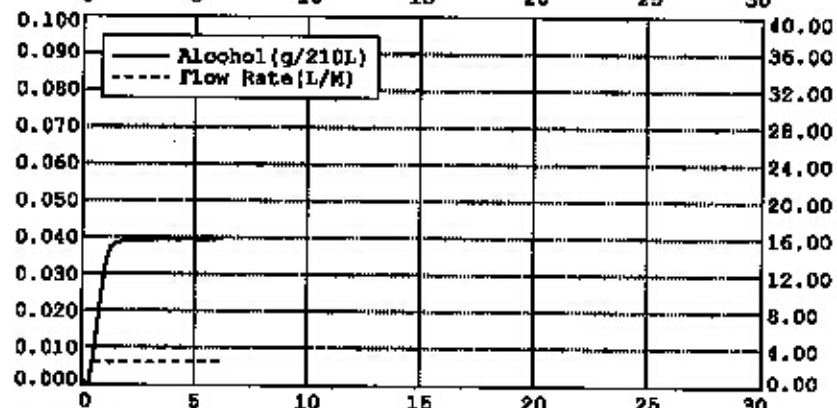
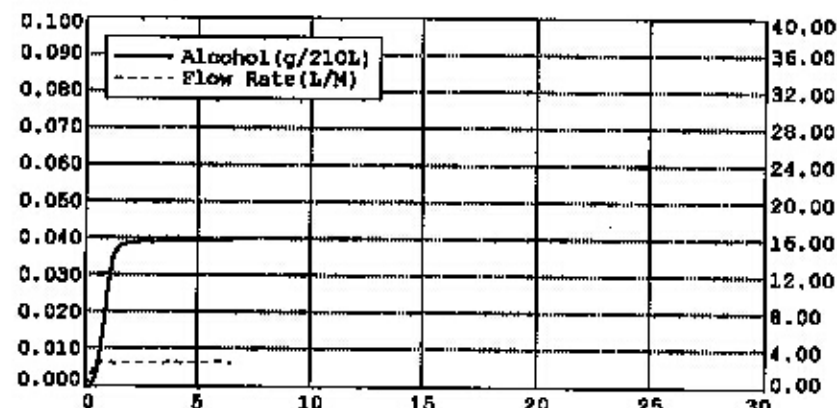
Alaska Department of Public Safety
 DATAMASTER dmt 100685

Date: 04/10/2012
 Time: 09:22:45

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.77: 0.039
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:24
INTERNAL STANDARD	VERIFIED	09:24
EXTERNAL STANDARD	0.040	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.040	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.040	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.040	09:27
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.040	09:28
BLANK TEST	0.000	09:29

Average = 0.0406
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

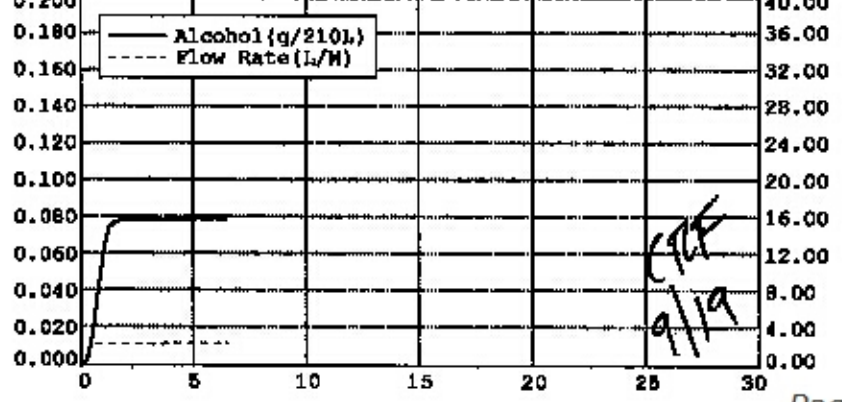
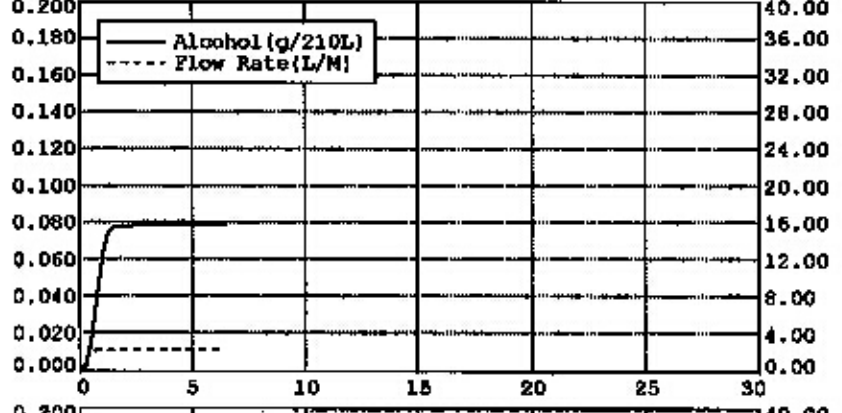
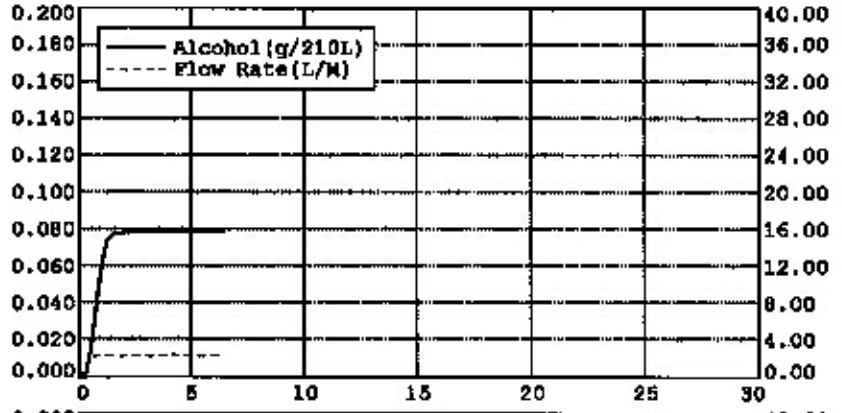
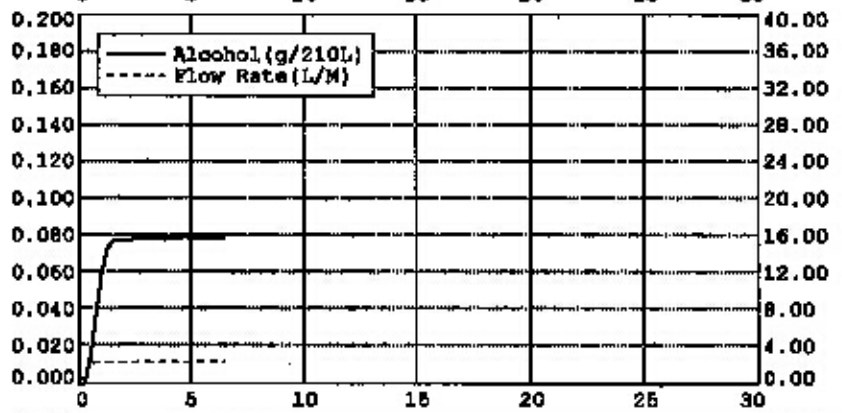
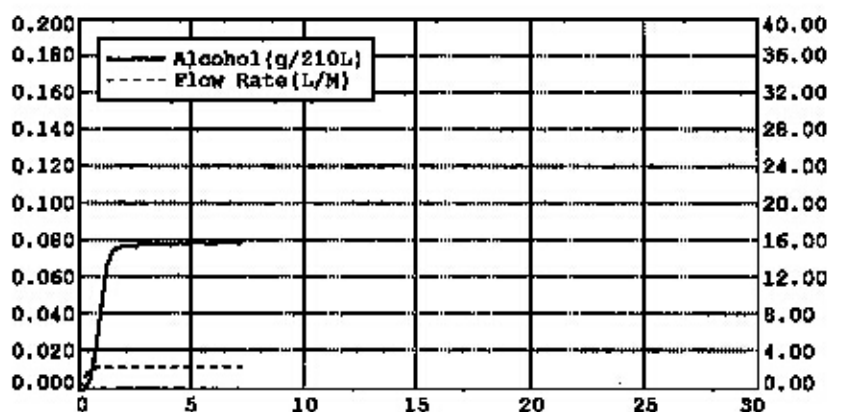
Alaska Department of Public Safety
DATAMASTER dnt: 100685

Date: 04/10/2012
Time: 09:35:10

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.77: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:36
INTERNAL STANDARD	VERIFIED	09:36
EXTERNAL STANDARD	0.079	09:36
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.079	09:37
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.079	09:39
BLANK TEST	0.000	09:39
EXTERNAL STANDARD	0.080	09:40
BLANK TEST	0.000	09:41
EXTERNAL STANDARD	0.079	09:41
BLANK TEST	0.000	09:42

Average = 0.0798
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dnt: 100685

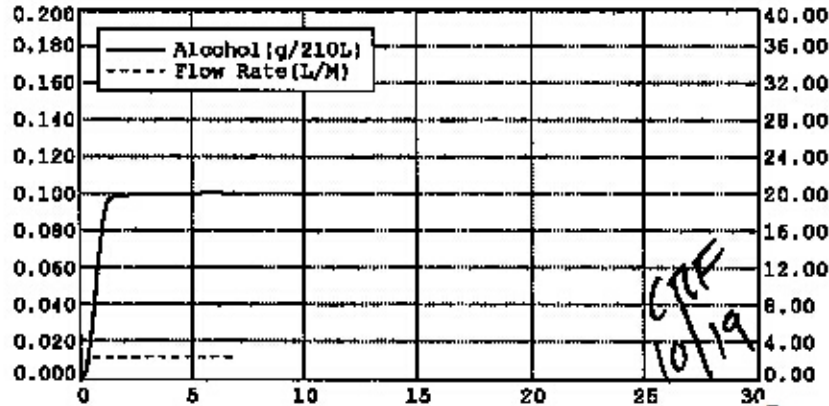
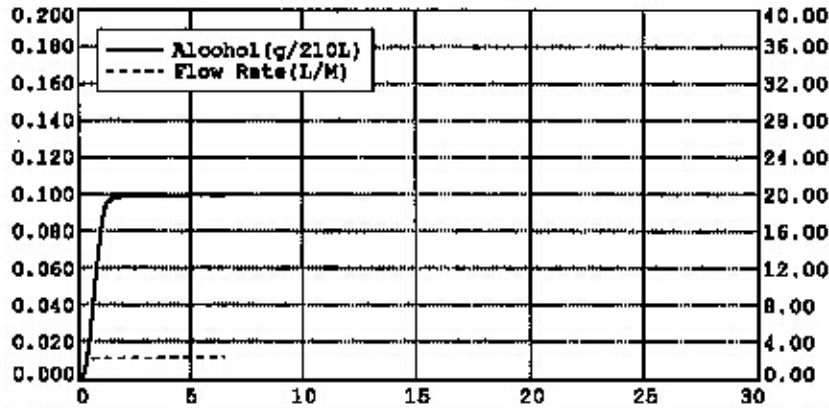
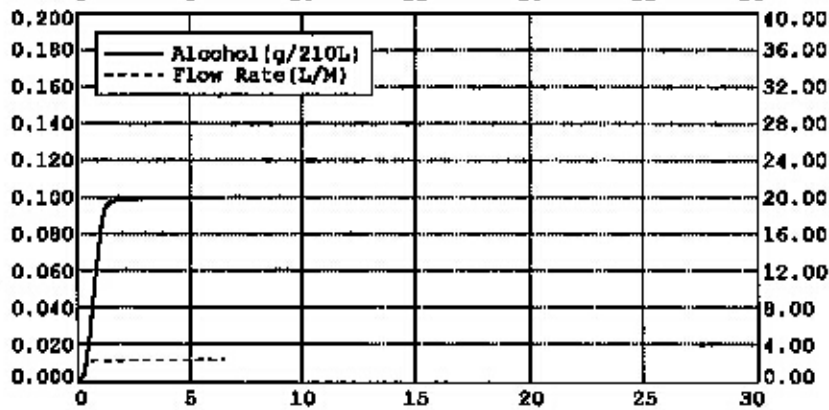
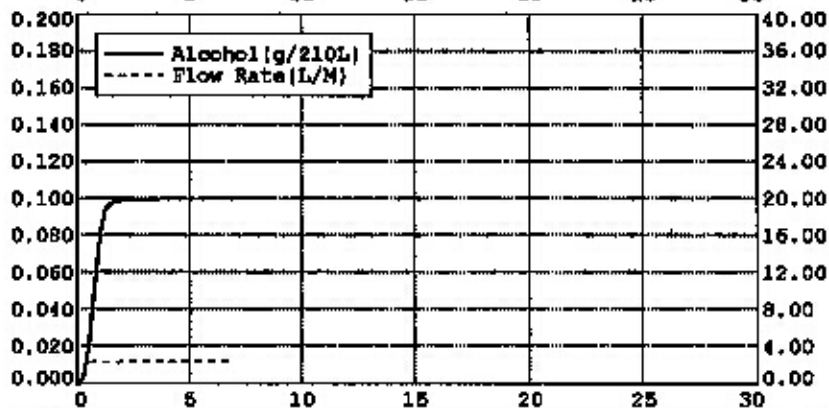
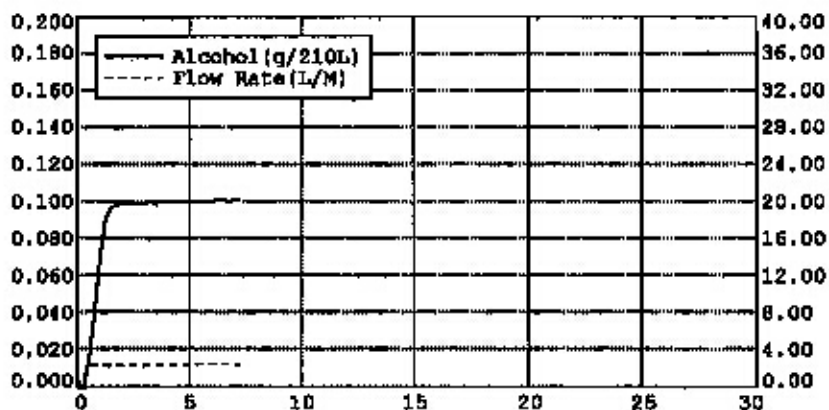
Date: 04/10/2012
Time: 09:45:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.77: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:47
INTERNAL STANDARD	VERIFIED	09:47
EXTERNAL STANDARD	0.101	09:47
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.100	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.100	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.100	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.101	09:52
BLANK TEST	0.000	09:53

Average = 0.1009
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

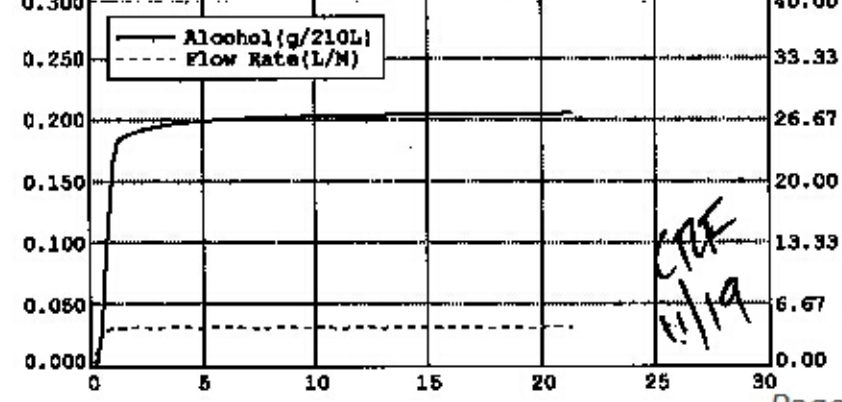
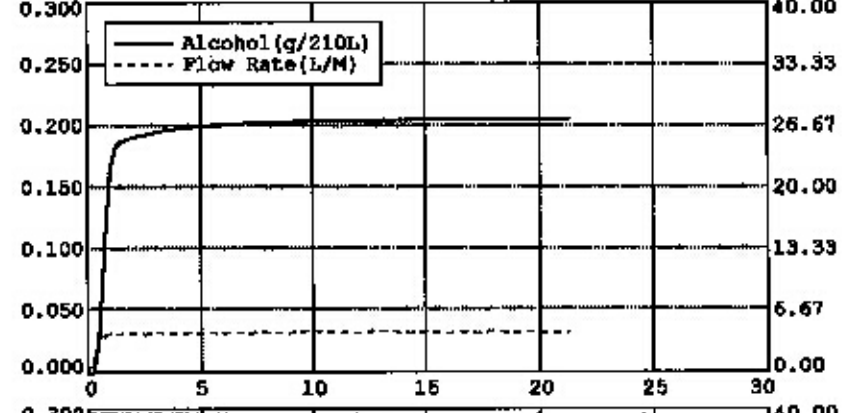
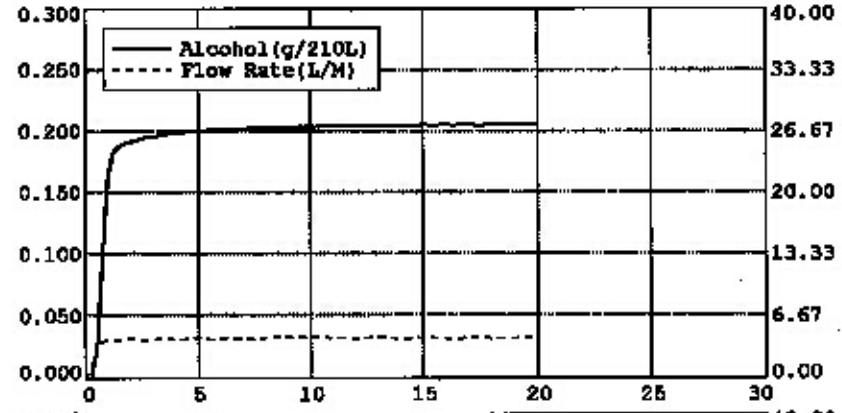
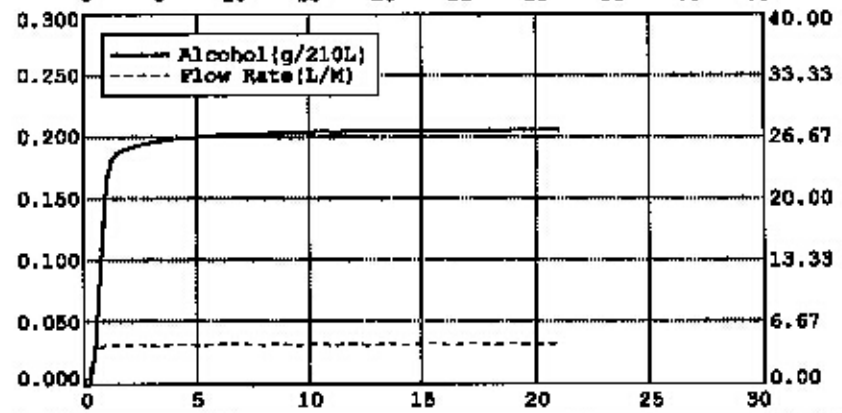
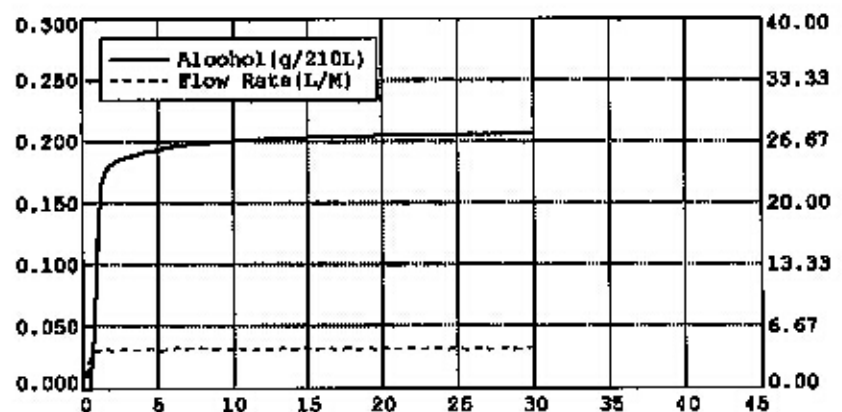
Alaska Department of Public Safety
 DATAMASTER chrt: 100685

Date: 04/10/2012
 Time: 09:56:20

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

BLANK TEST	0.000	09:57
INTERNAL STANDARD	VERIFIED	09:57
EXTERNAL STANDARD	0.207	09:58
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.206	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.206	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.206	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.206	10:03
BLANK TEST	0.000	10:04

Average = 0.2065
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dnt: 100685

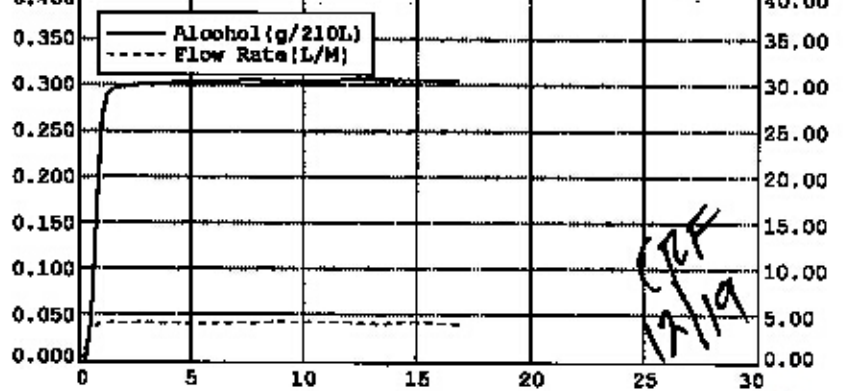
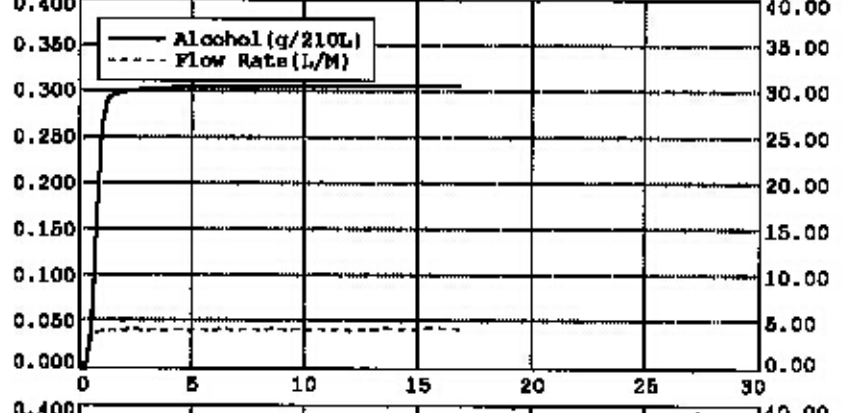
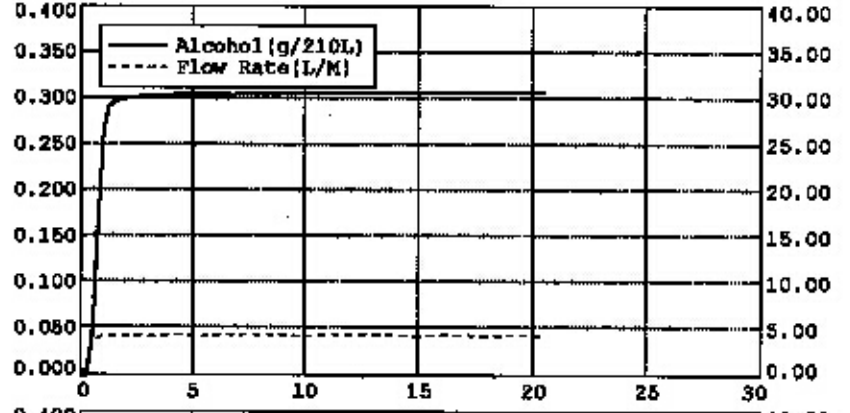
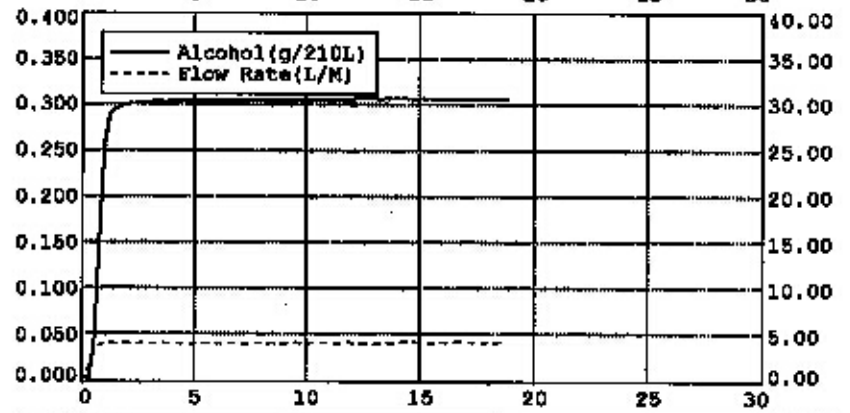
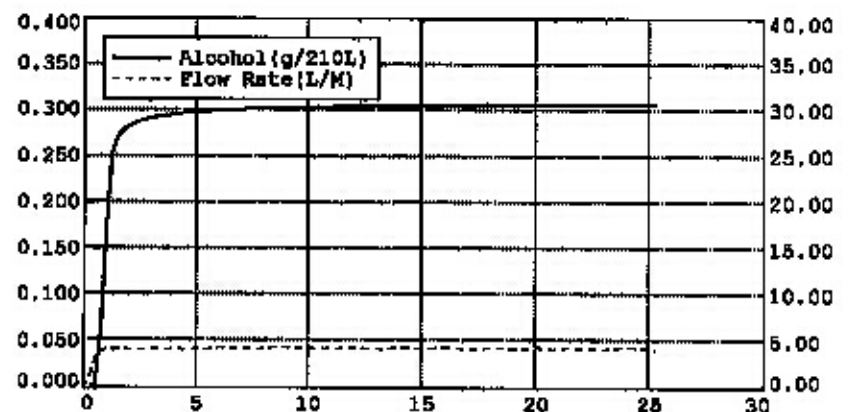
Date: 04/10/2012
 Time: 10:06:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 11110
 EXPIRATION: 07/13/2013

BLANK TEST	0.000	10:07
INTERNAL STANDARD	VERIFIED	10:07
EXTERNAL STANDARD	0.307	10:08
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.307	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.307	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.306	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.307	10:13
BLANK TEST	0.000	10:14

Average = 0.3070
 Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100685

Date: 04/10/2012
Time: 10:34:53

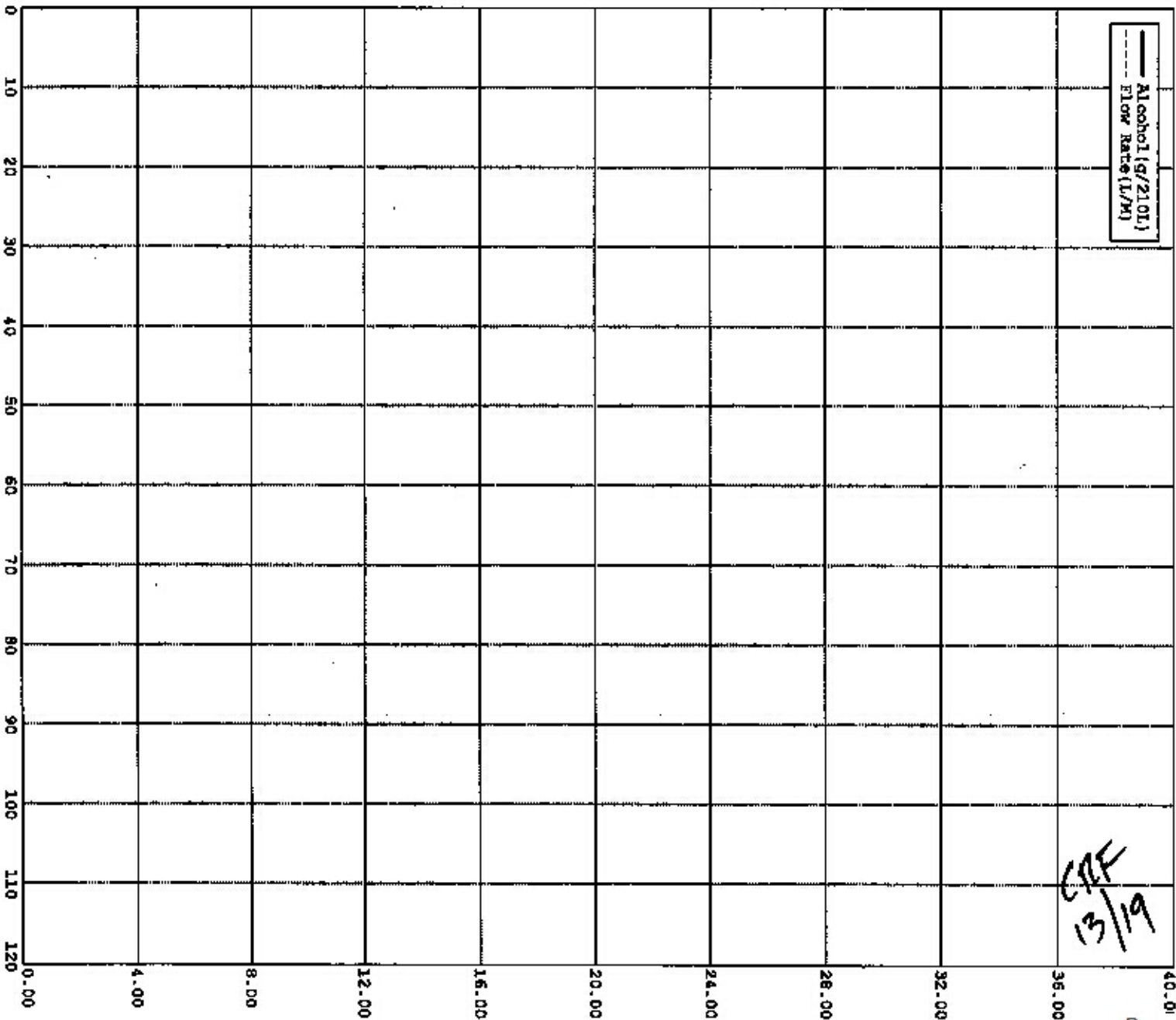
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
MCDMNT: 0.080
TARGET AT 29.77: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK
BLANK TEST PASSED 10:35
INTERNAL STANDARD VERIFIED 10:36
EXTERNAL STANDARD 0.079 10:36
BLANK TEST 0.000 10:37
SUBJECT SAMPLE INCOMPLETE 10:39



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER date: 100665

Date: 04/10/2012
Time: 10:43:59

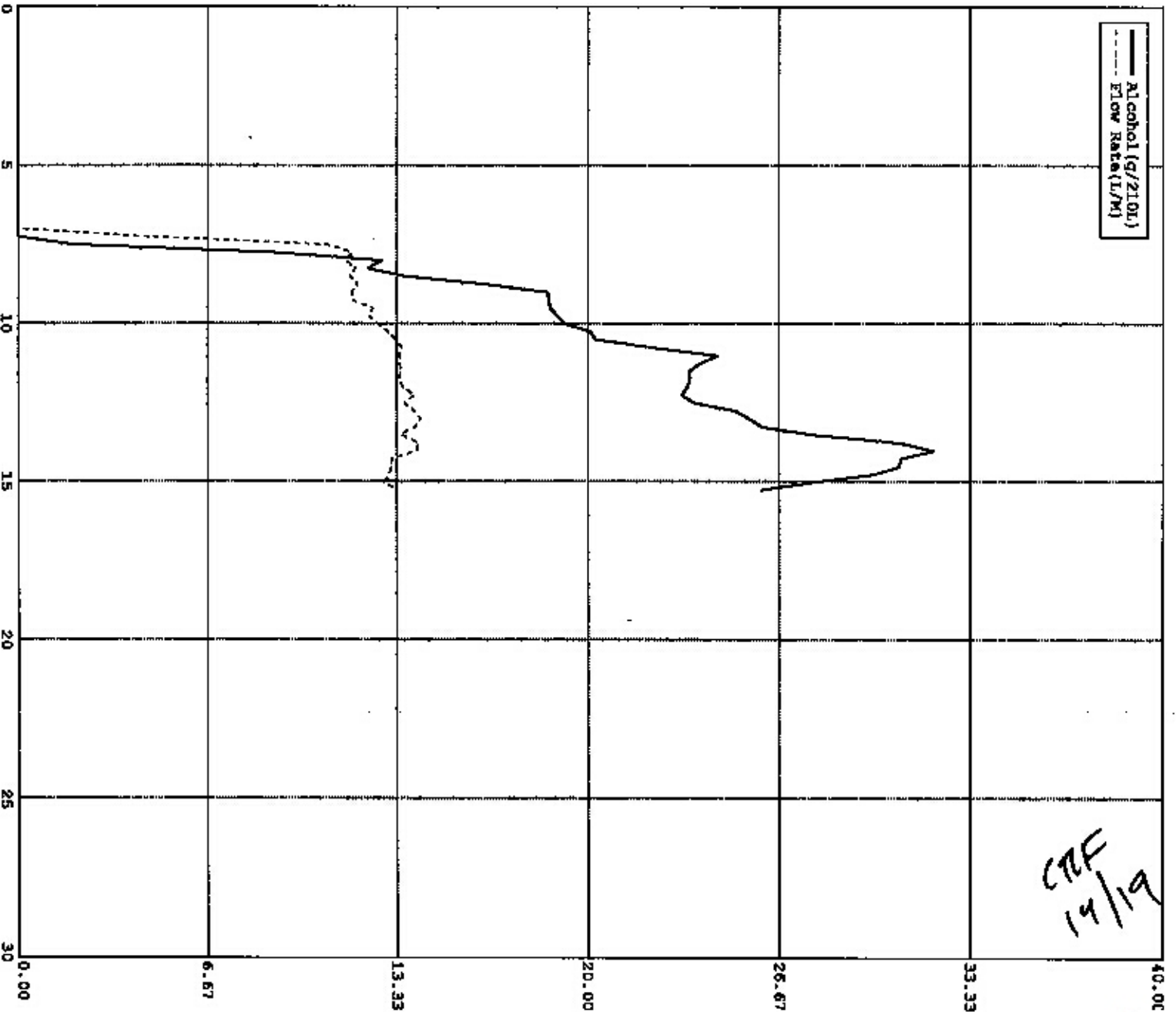
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID MOTOR SCORE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
MONITOR: 0.080
TARGET AT 29.77: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:47
BLANK TEST	0.000	10:47
INTERNAL STANDARD	VARIFIED	10:48
EXTERNAL STANDARD	0.080	10:48
BLANK TEST	0.000	10:49
SUBJECT SAMPLE	INVALID	10:49



SUBJECT TEST

Alaska Department of Public Safety
DATABASE# dnt: 100685

Date: 04/10/2012
Time: 11:21:49

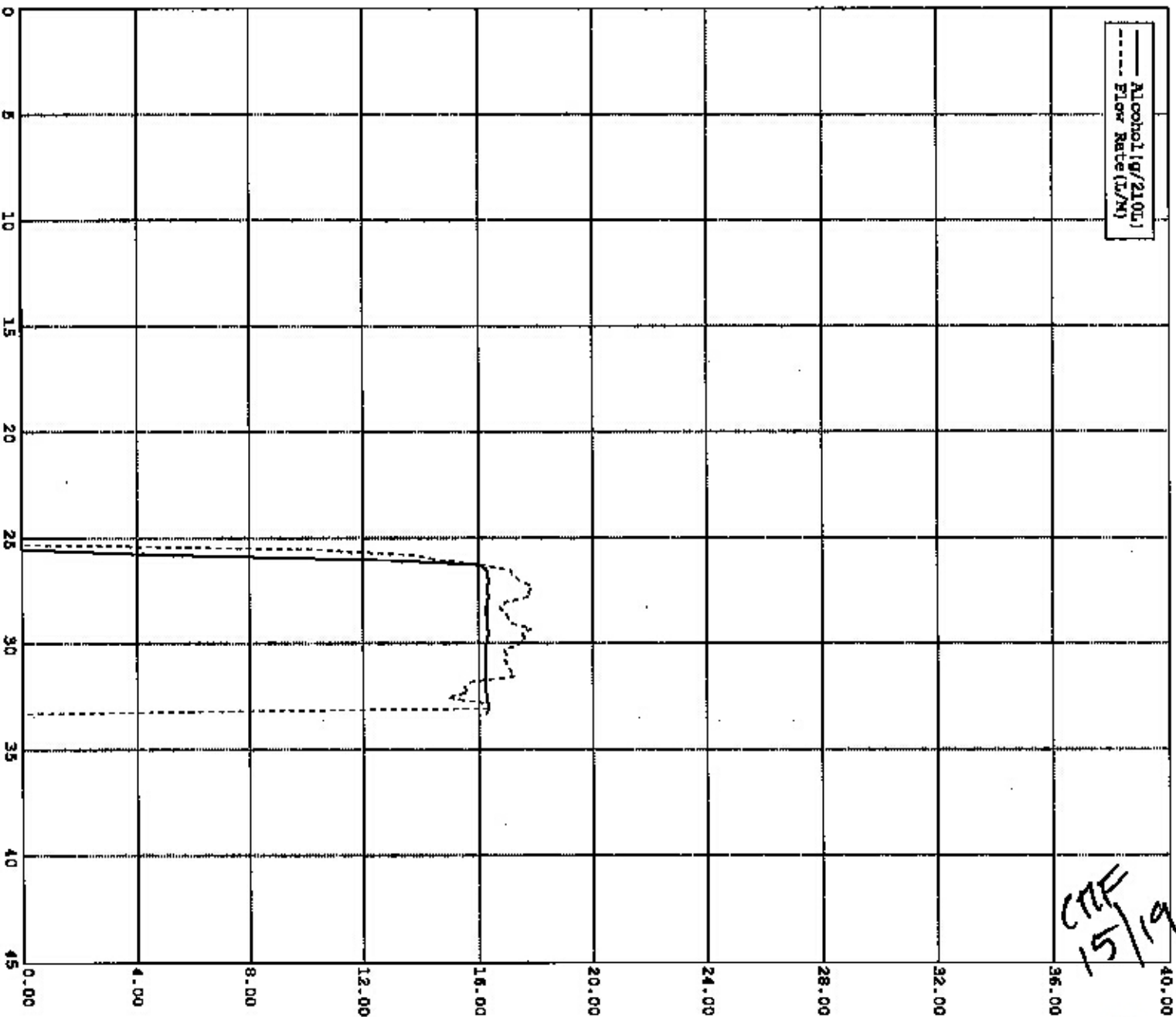
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE FICHE AND ACFTONS
OPERATOR'S #: XXXX

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	11:27
BULK TEST	0.000	11:27
INTERNAL STANDARD	VERIFIED	11:28
Xq = 0.079 (0.89%)		
EXTERNAL STANDARD	0.079	11:28
X[1] = 0.0798 (-0.0011) (0.0036)		
BULK TEST	0.000	11:29
SUBJECT SAMPLE	INTERFERENCE	11:29
X[1] = 0.0821 (-0.0139) (0.0009)		



SUBJECT TEST

Alaska Department of Public Safety
LABORATORY dmc: 100685

Date: 04/10/2012
Time: 11:43:35

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

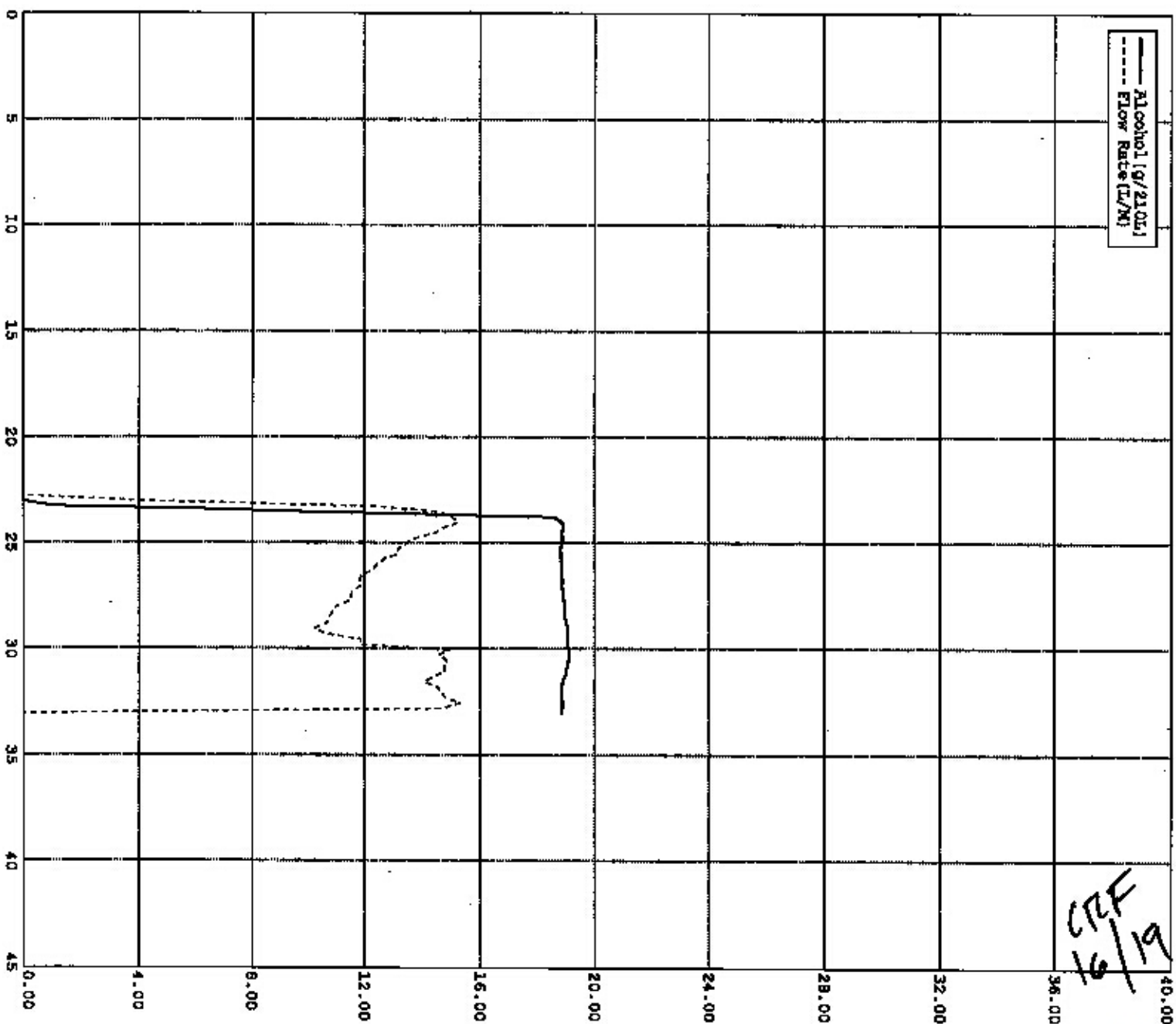
OPERATOR NAME:
INTERFERENCE BYCE AND IPA
OPERATOR'S #: XXXX

DEPT/AGENCY:

XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.75: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:46
BLANK TEST	0.000	11:46
INTERNAL STANDARD	VERIFIED	11:46
X[4] = 0.079 (0.78%)		
EXTERNAL STANDARD	0.079	11:46
X[1] = 0.0799 (0.0001) (0.0040)		
BLANK TEST	0.000	11:47
SUBJECT SAMPLE	INTERFERENCE	11:48
X[1] = 0.0947 (-0.0211) (0.0022)		



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE# dmt: 100685

Date: 04/10/2012
 Time: 13:41:21

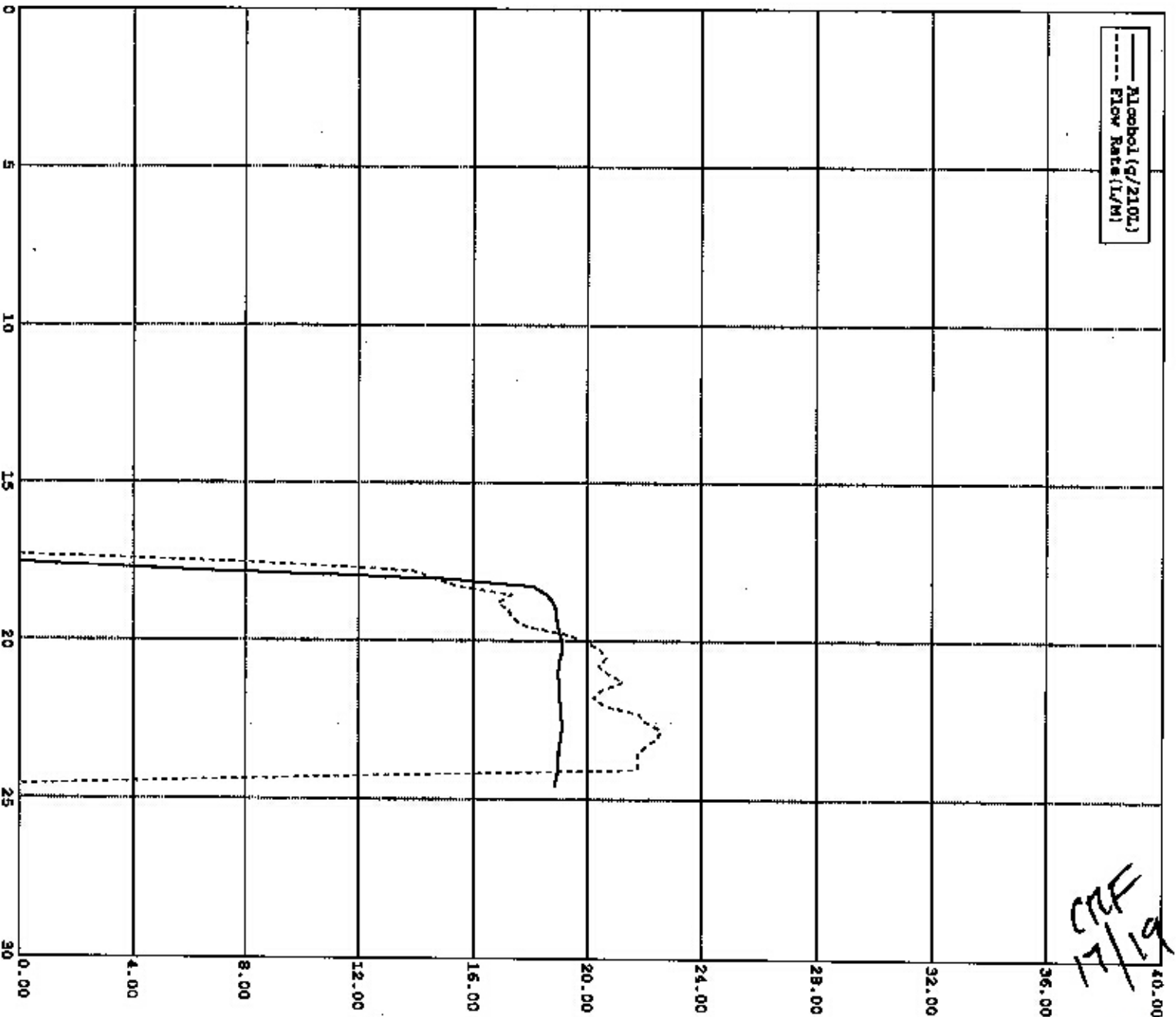
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE FREE ONLY
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.71: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:47
BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
Xq = 0.078 (0.44%)		
EXTERNAL STANDARD	0.079	13:47
X[1] = 0.0795 (-0.0003)	(0.0026)	
BLANK TEST	0.000	13:48
SUBJECT SAMPLE (Vol=2.21L)	0.054	13:48
X[1] = 0.0948 (-0.0011)	(0.0013)	
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.079	13:50
X[1] = 0.0792 (-0.0006)	(0.0032)	
BLANK TEST	0.000	13:51



SUBJECT TEST

Alaska Department of Public Safety
 REGISTER date: 100685

Date: 04/10/2012
 Time: 13:58:49

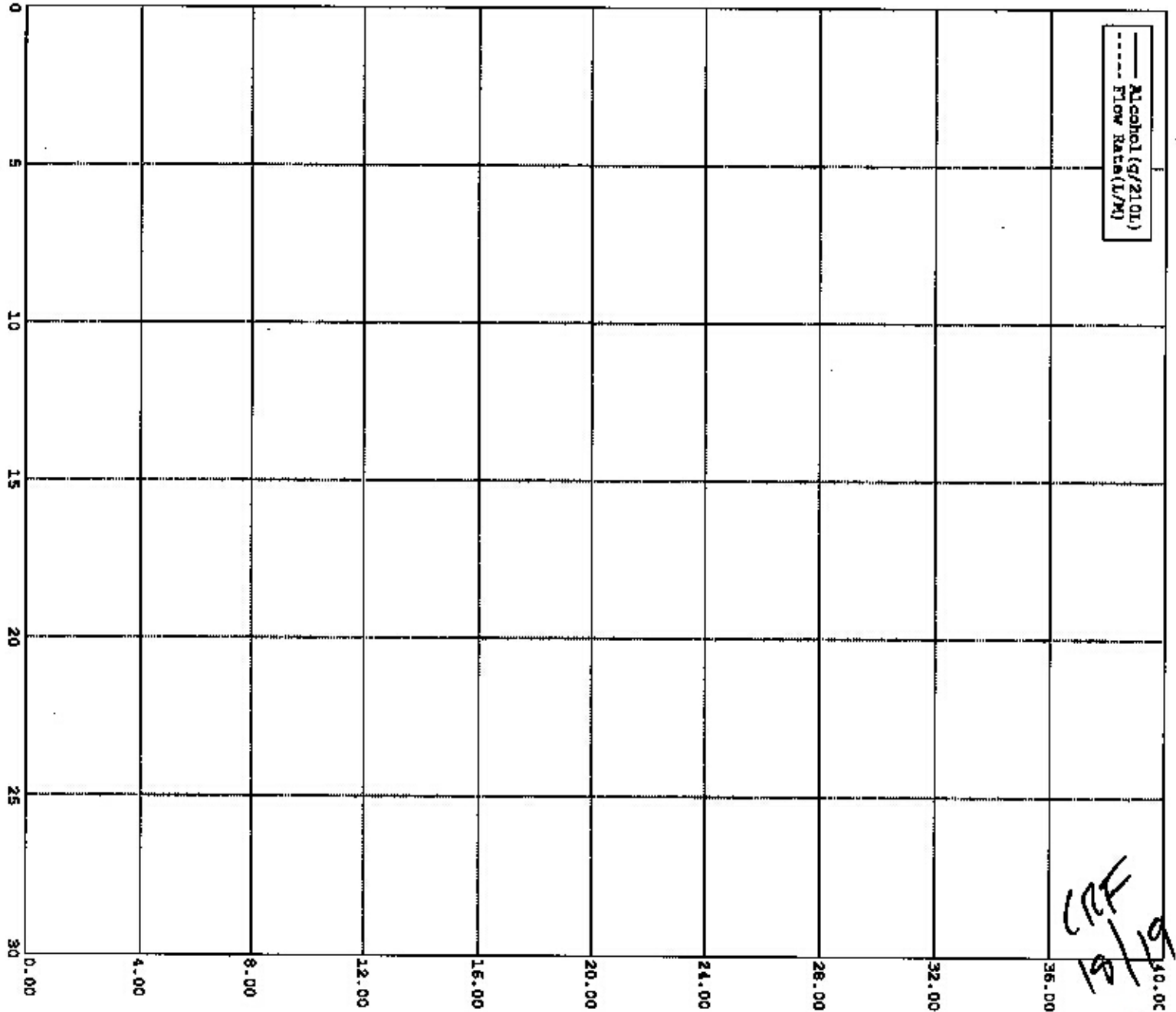
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NORMAL: 0.080
 TARGET AT 29.71: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK PASSED 14:00
 BLANK TEST 0.000 14:00
 INTERNAL STANDARD VERIFIED 14:00
 EXTERNAL STANDARD 0.080 14:01
 BLANK TEST 0.000 14:02
 RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DARAMASTER dnr: 100685

Date: 04/10/2012
Time: 14:31:19

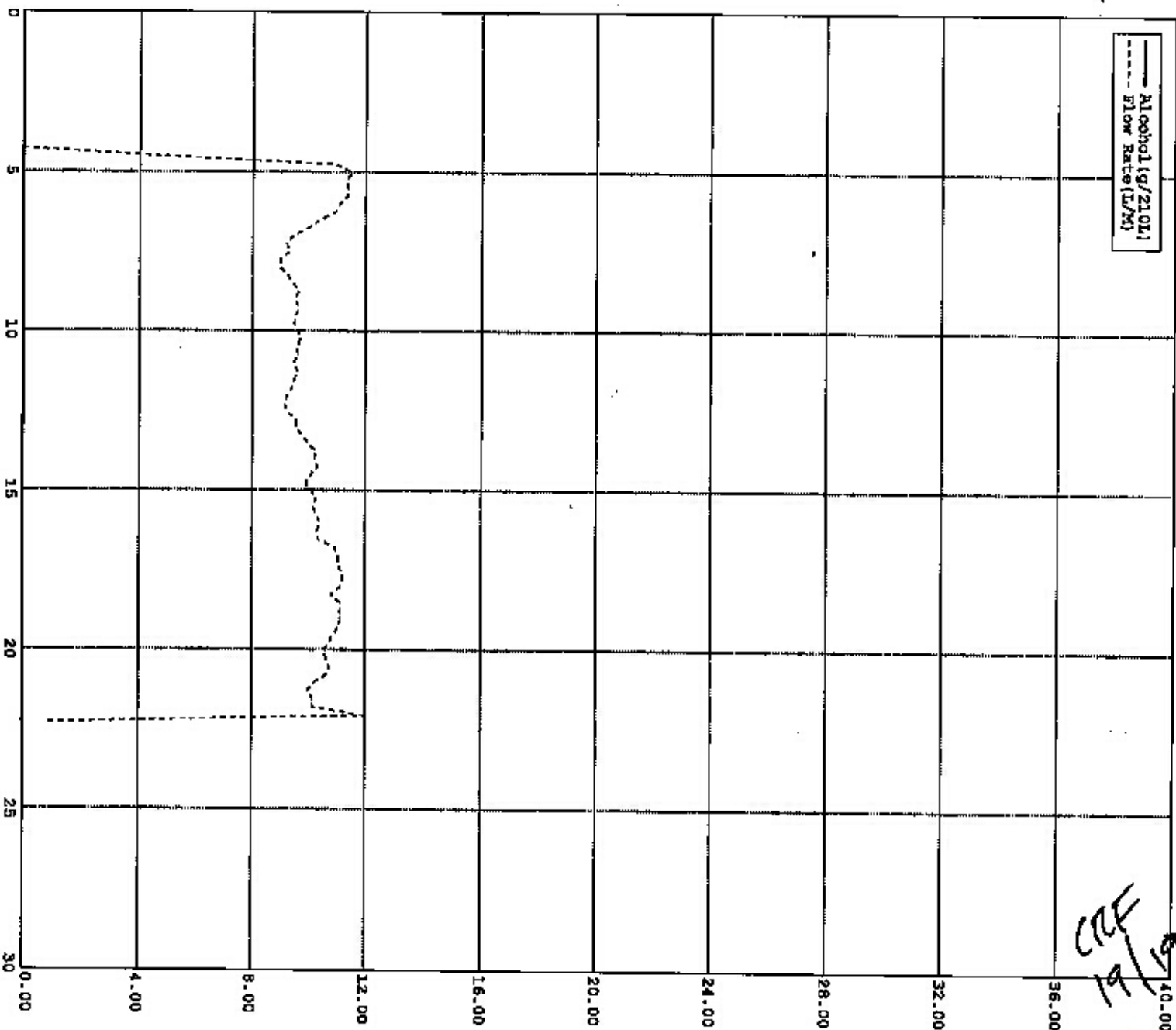
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

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

INTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AVE 29.70: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:35
BLANK TEST	0.000	14:35
INTERNAL STANDARD	VERIFIED	14:36
EXTERNAL STANDARD	0.079	14:36
BLANK TEST	0.000	14:37
SUBJECT SAMPLE	0.000	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.079	14:38
BLANK TEST	0.000	14:39



Final page for report

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2/12/2014