

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100353 Analyst CRF Start Date 4/27/12Diagnostic 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 3/1/13ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14iv. 0.100g/210L Mnf ILMO Lot 0761100A3 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 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 10/11/131. 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 1/10/12iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/131. Simulator S/N SD1202 Date Calibrated 8/17/11d. 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 4/30/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 04/27/2012
Time: 10:54:36

VERSIONS

DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 47.9°C	PASSED

PUMP INFO

Flow Rate = 5.246 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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CRF

Technician Screen

DATAMASTER dmt: 100353

Date: 04/27/2012

Time: 11:21 AM

Temperatures (°C)

Sample Cell: 49.5°C

Breath Tube: 47.3°C

Current Barometer 29.6 in

Volume (Ltr) 1.57

Settings

Lamp: 2.09 V

Bias: 79 V

Cooler: 2.05 V

Chopper: 536 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.013 V

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CRF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 03/15/2011
Time: 06:51:36

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

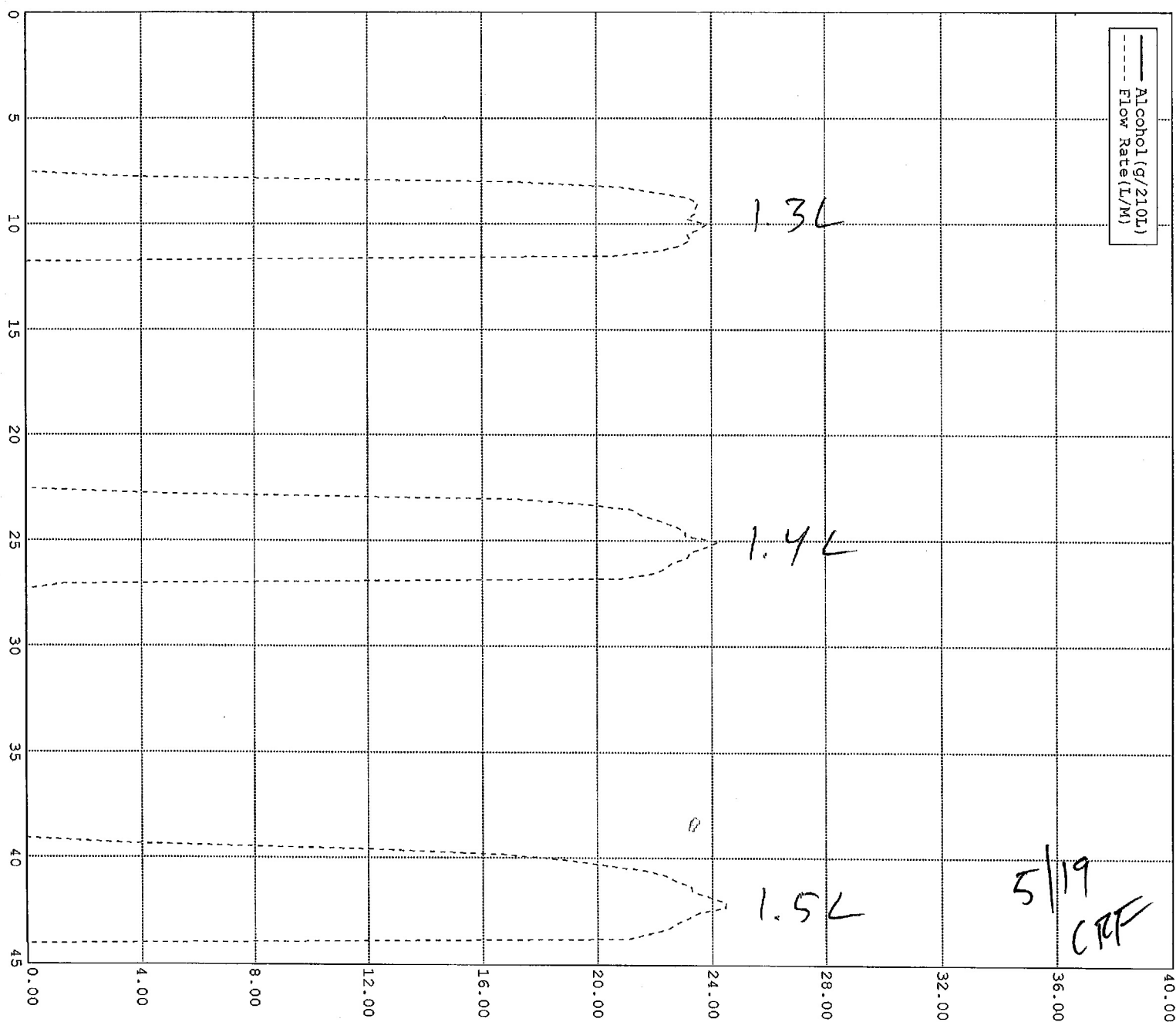
Ca = 0.1000
CAL = 0.984793 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0894 0.0500 <= Xq < 0.2000
a21 = 1.178135 1.050 <= a21 < 1.300
a31 = 0.526358 0.300 <= a31 < 0.800

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CRF

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353Date: 04/27/2012
Time: 13:24:04SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.57: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:34
BLANK TEST	0.000	13:34
INTERNAL STANDARD	VERIFIED	13:34
EXTERNAL STANDARD	0.079	13:34
BLANK TEST	0.000	13:35
SUBJECT SAMPLE	0.000	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.079	13:37
BLANK TEST	0.000	13:38



LINEARITY CHECK

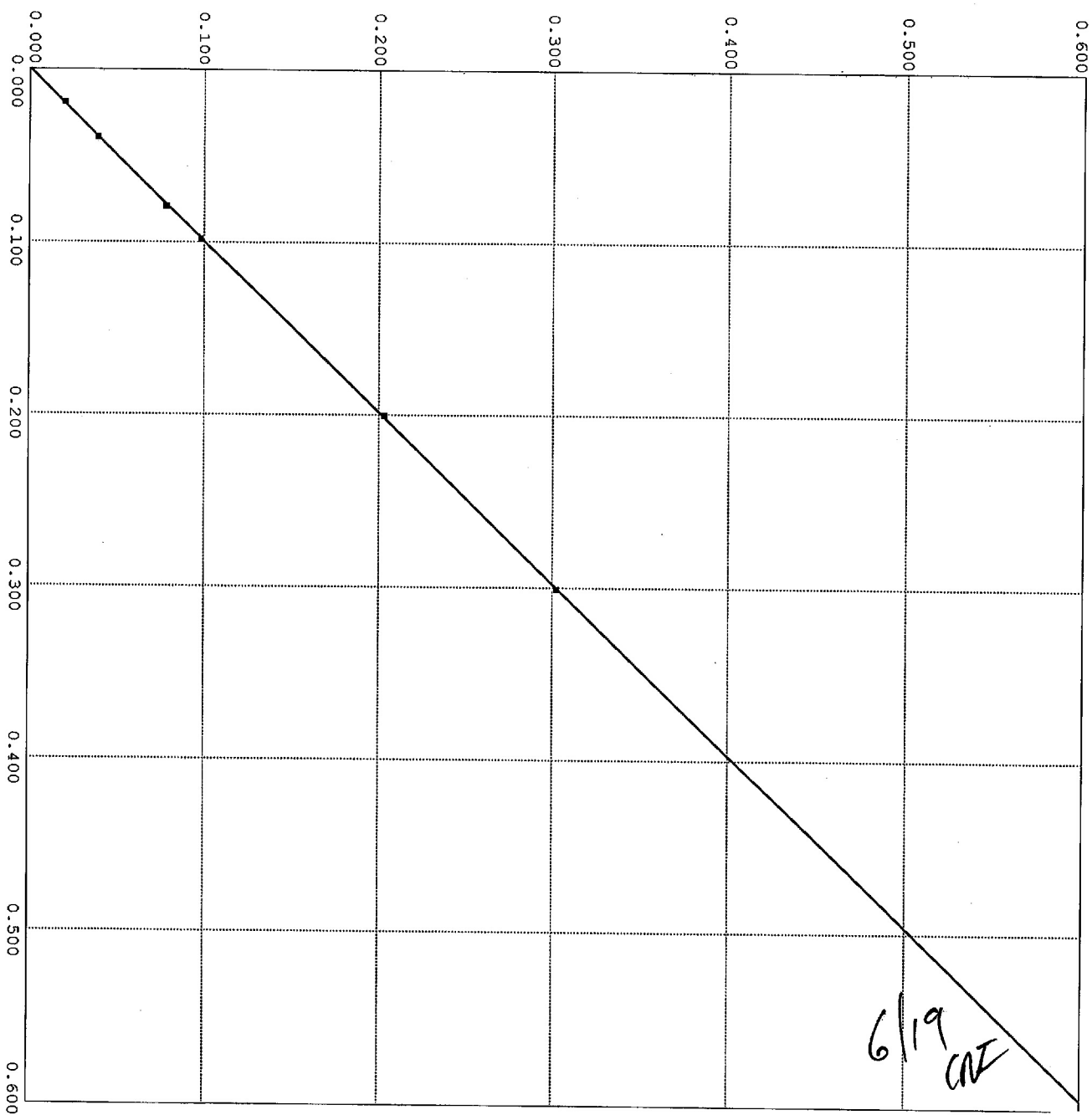
Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 04/27/2012
Time: 13:58:44

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0208	0.0005
0.039	0.0401	0.0003
0.079	0.0795	0.0003
0.098	0.0989	0.0002
0.200	0.2040	0.0003
0.300	0.3029	0.0006

SLOPE = 1.008719
 R^2 = 0.999920



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100353

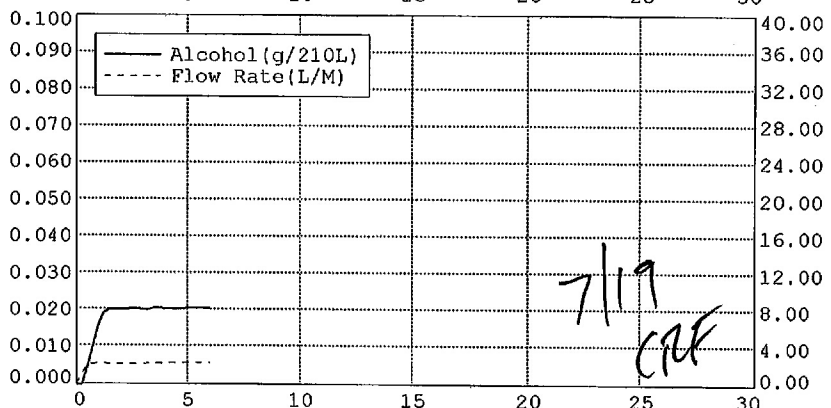
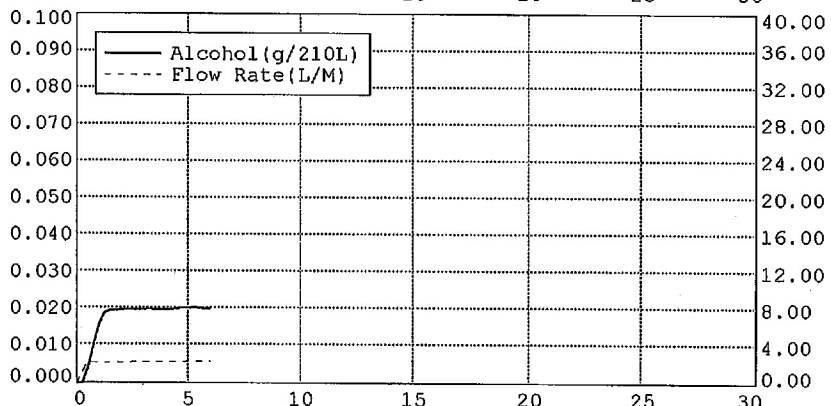
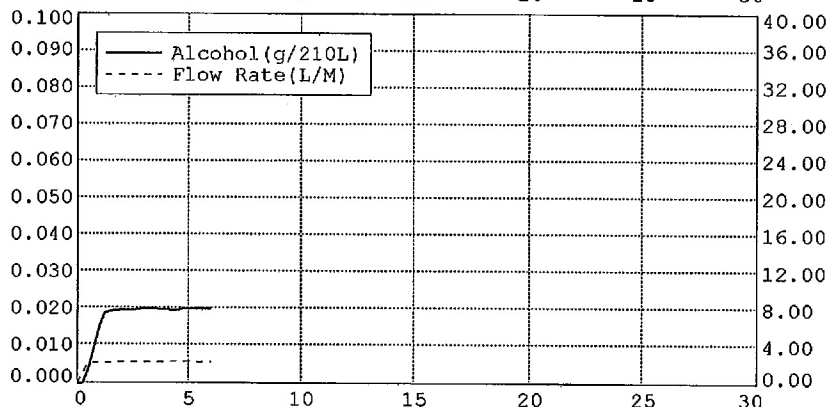
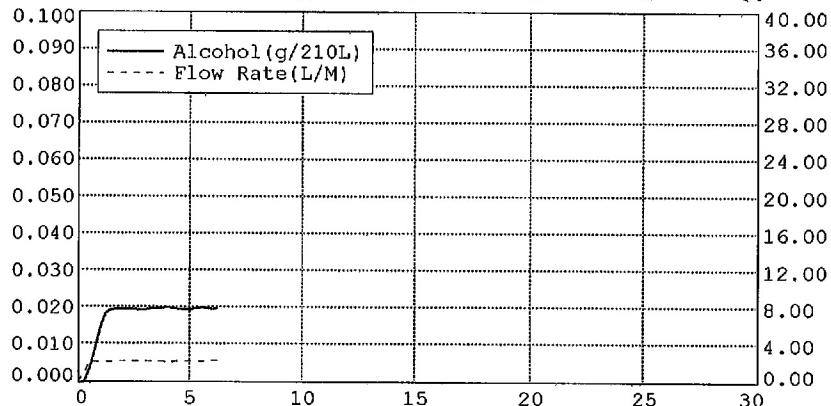
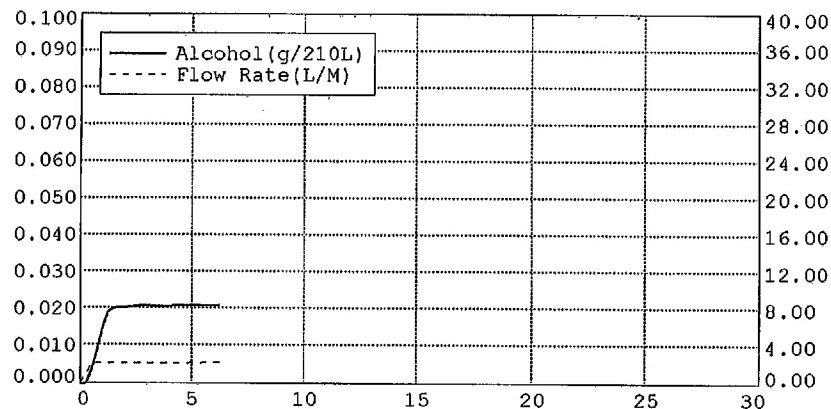
Date: 04/27/2012
Time: 13:58:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.56: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.021	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.020	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.020	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.020	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.021	14:34
BLANK TEST	0.000	14:34

Average = 0.0208
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100353

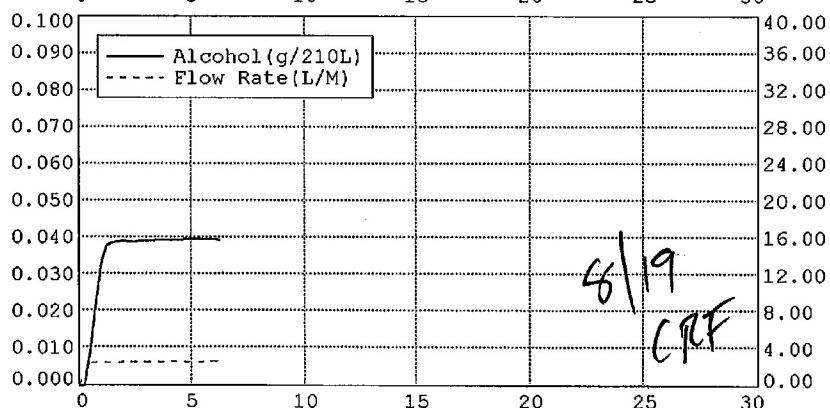
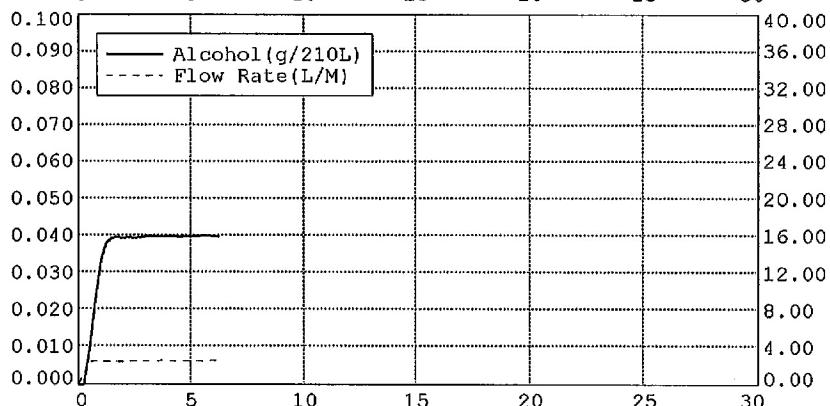
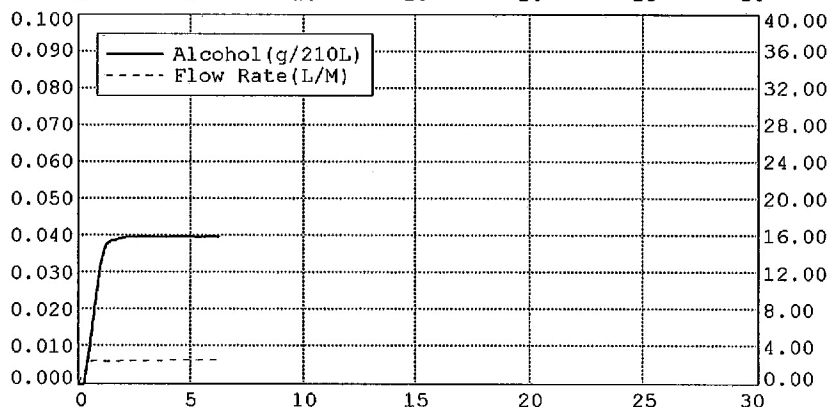
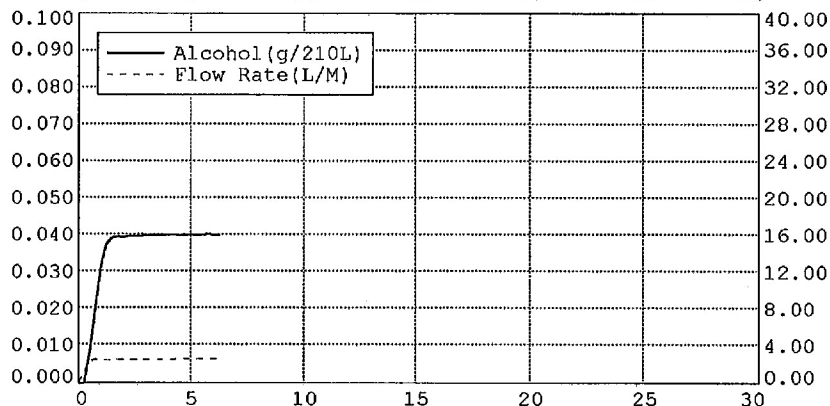
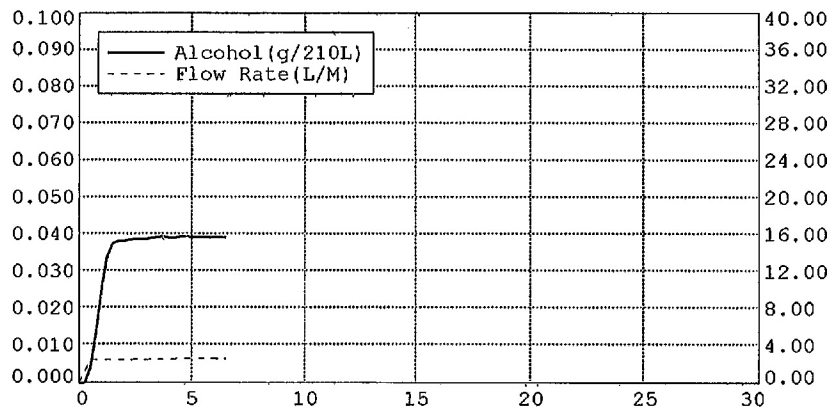
Date: 04/27/2012
Time: 14:38:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.56: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:39
INTERNAL STANDARD	VERIFIED	14:39
EXTERNAL STANDARD	0.039	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.040	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.040	14:42
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.040	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.039	14:44
BLANK TEST	0.000	14:45

Average = 0.0401
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100353

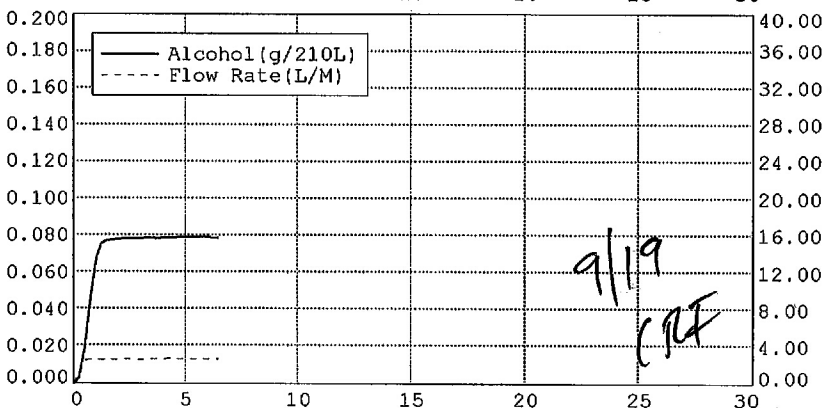
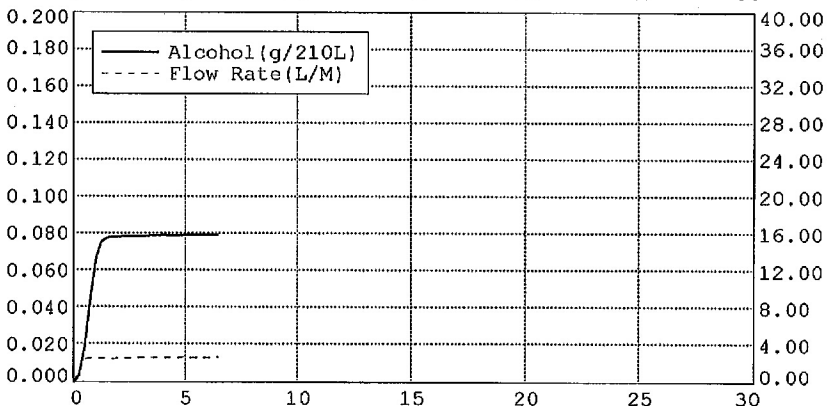
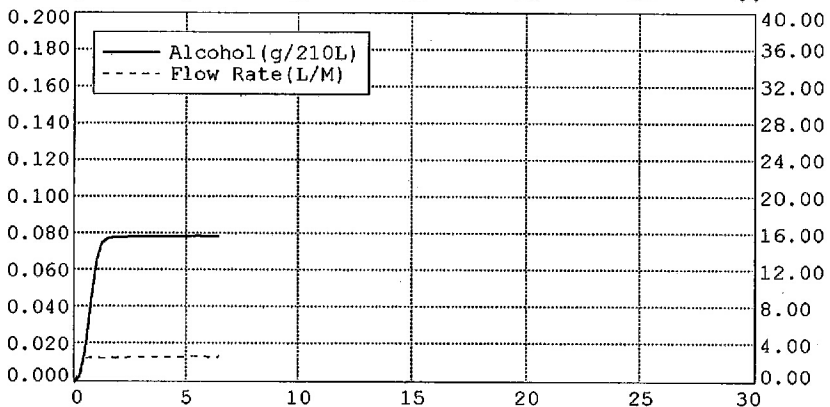
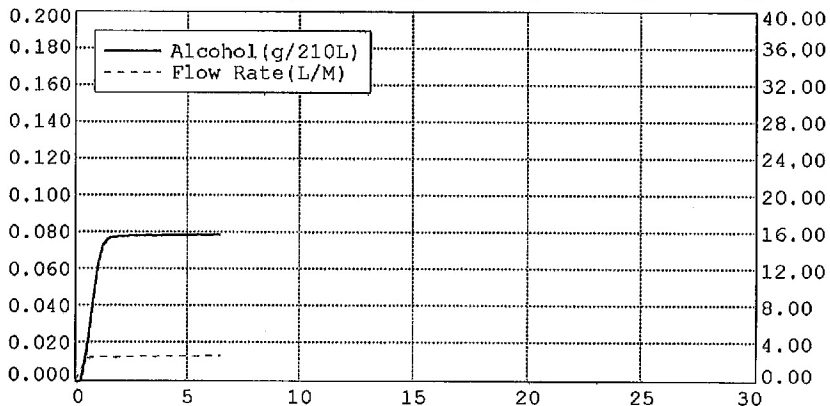
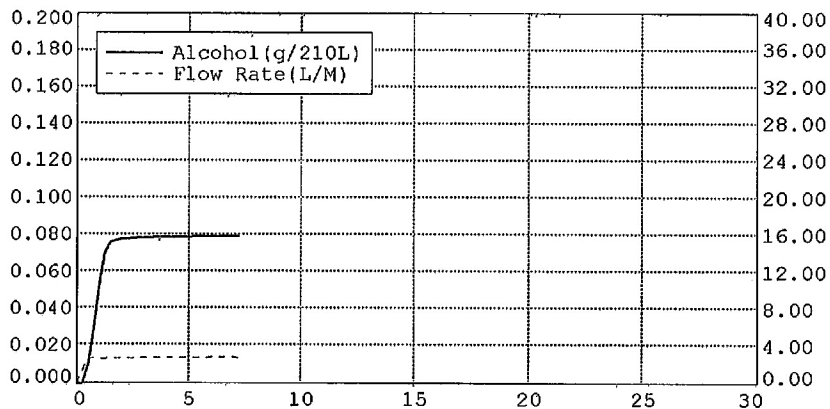
Date: 04/27/2012
Time: 14:47:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.56: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:48
INTERNAL STANDARD	VERIFIED	14:48
EXTERNAL STANDARD	0.079	14:49
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.079	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.079	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.079	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.079	14:53
BLANK TEST	0.000	14:54

Average = 0.0795
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100353

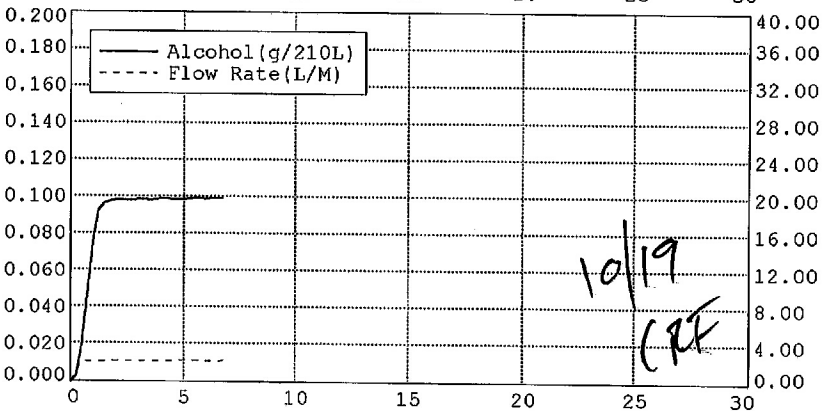
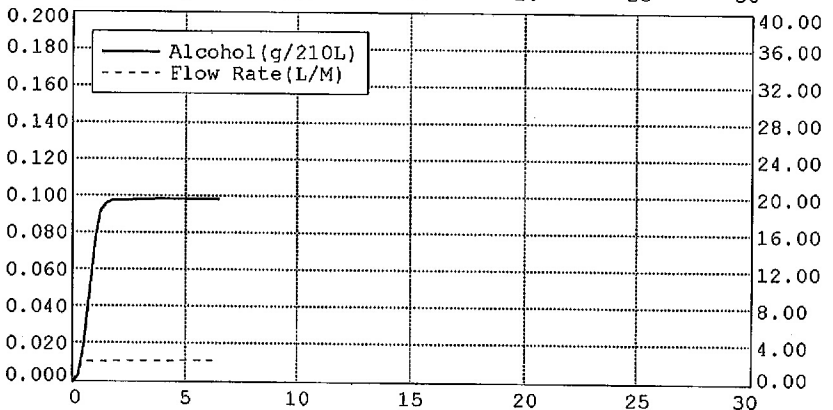
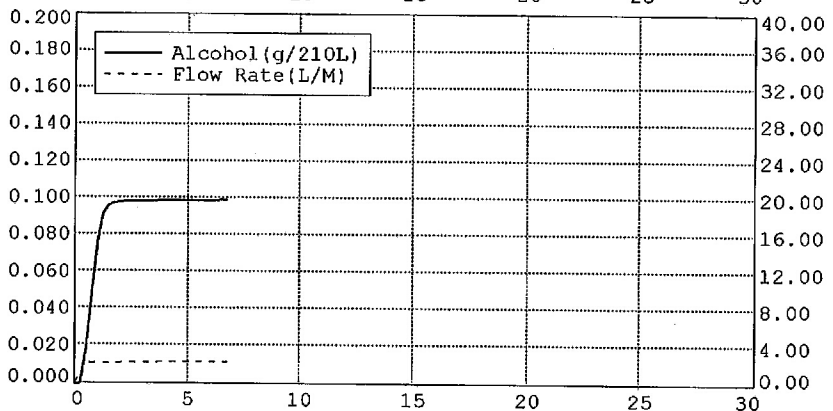
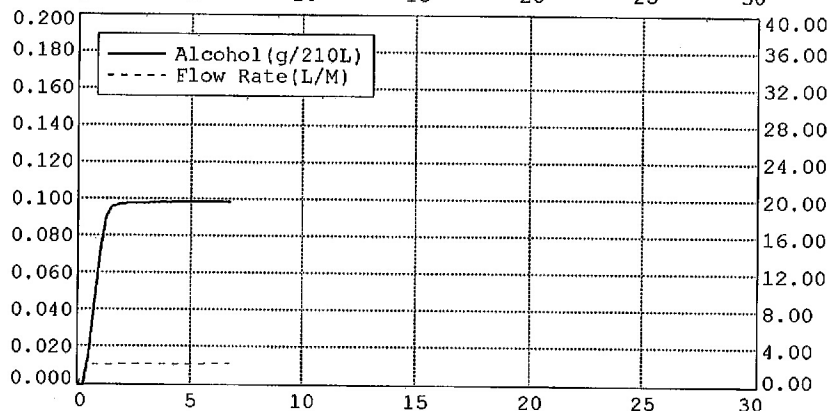
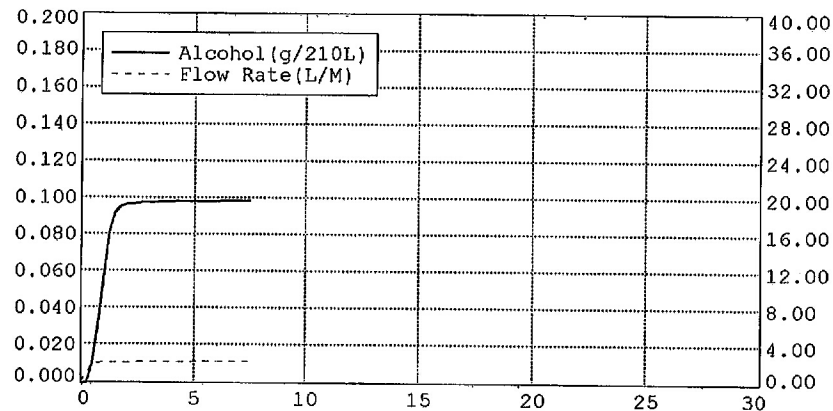
Date: 04/27/2012
Time: 14:57:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.56: 0.098
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:58
INTERNAL STANDARD	VERIFIED	14:58
EXTERNAL STANDARD	0.098	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.098	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.098	15:01
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.098	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.099	15:03
BLANK TEST	0.000	15:04

Average = 0.0989
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 04/27/2012
Time: 15:07:50

EXTERNAL STANDARD INFORMATION

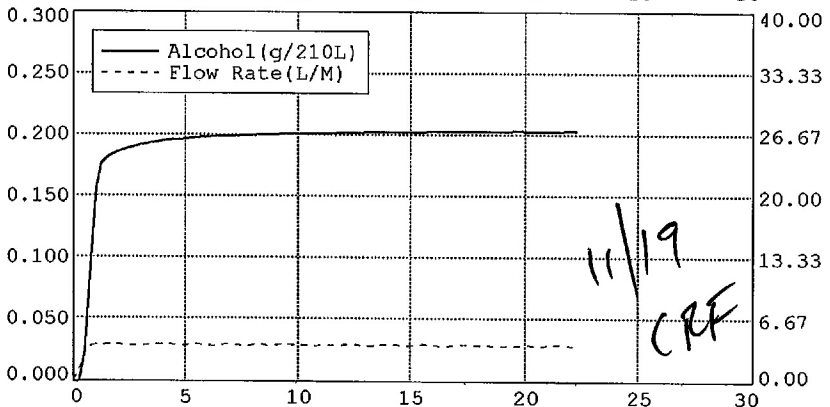
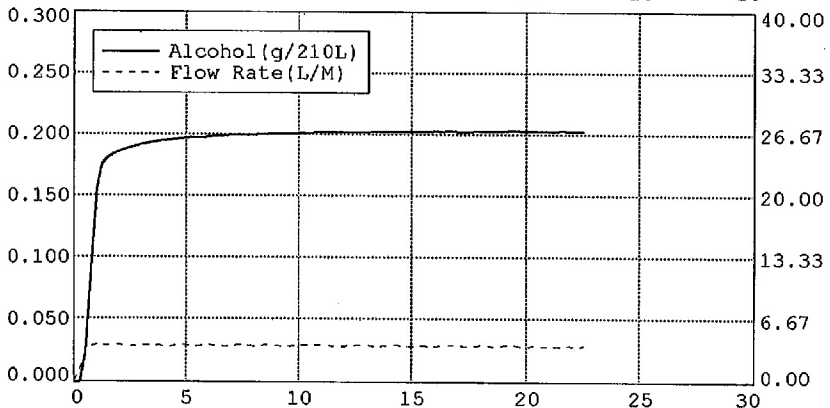
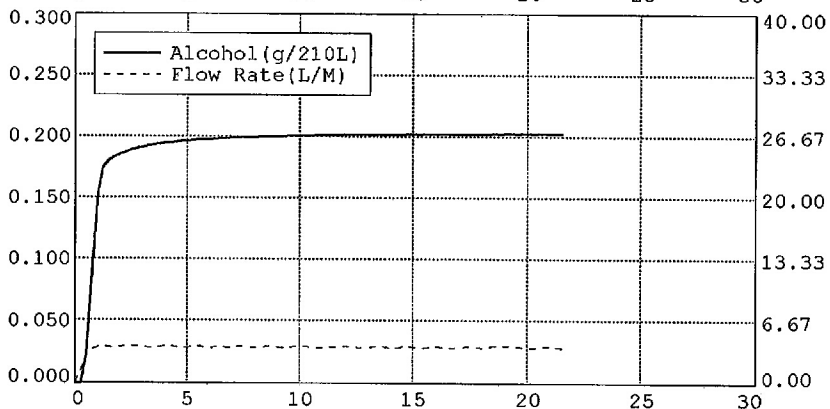
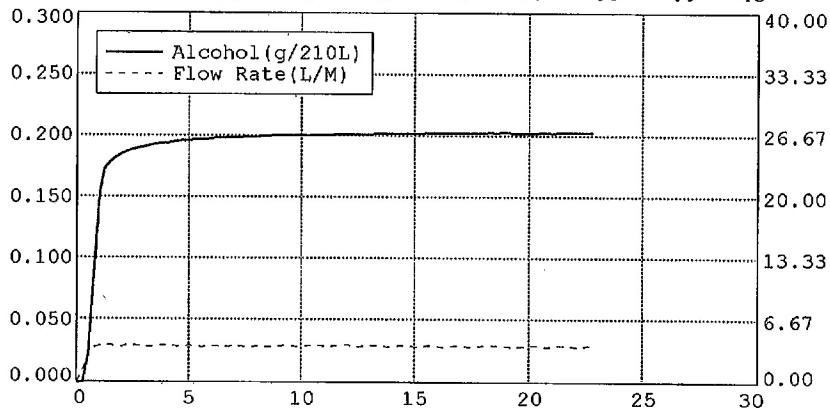
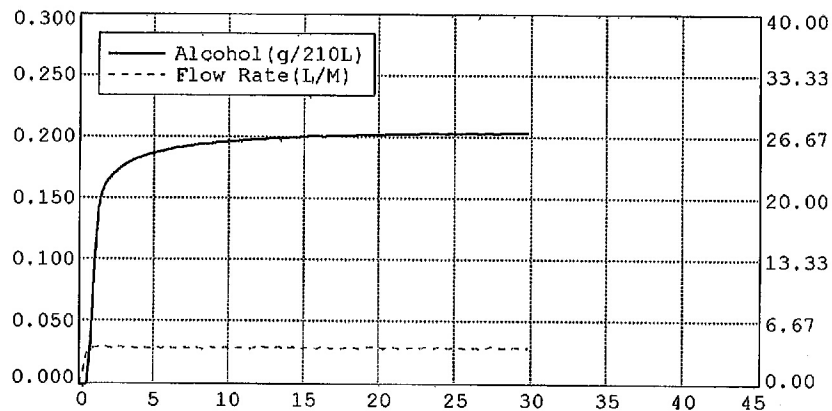
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	15:09
INTERNAL STANDARD	VERIFIED	15:09
EXTERNAL STANDARD	0.204	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.203	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.203	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.203	15:14
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.204	15:15
BLANK TEST	0.000	15:16

Average = 0.2040
Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 04/27/2012

Time: 15:19:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300

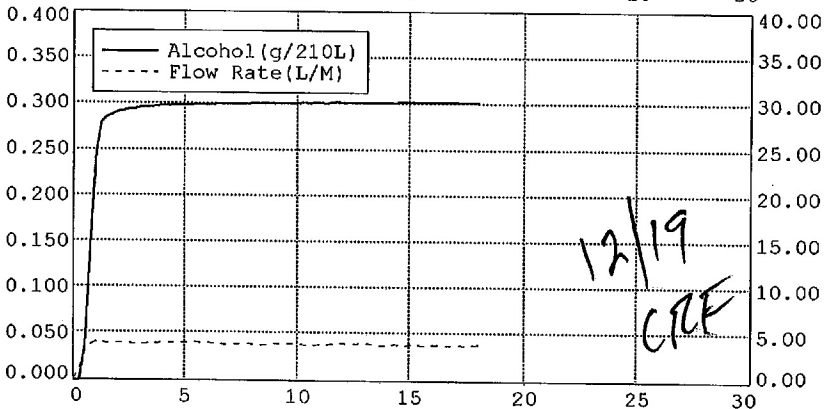
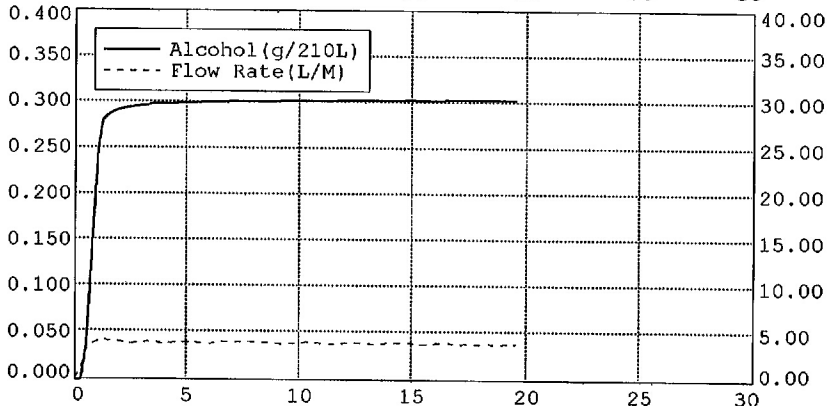
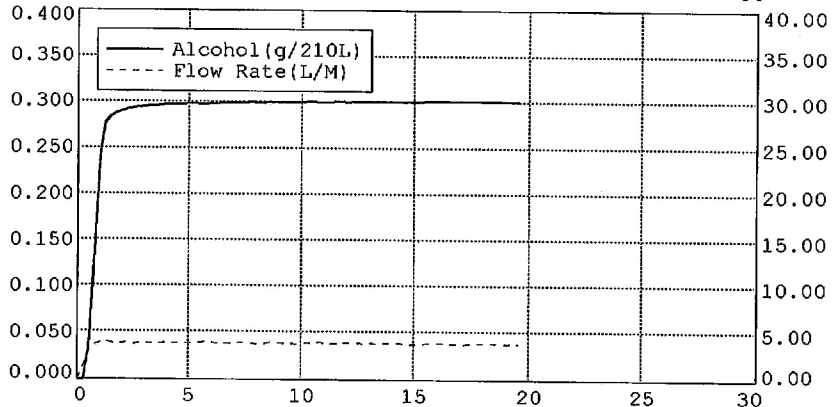
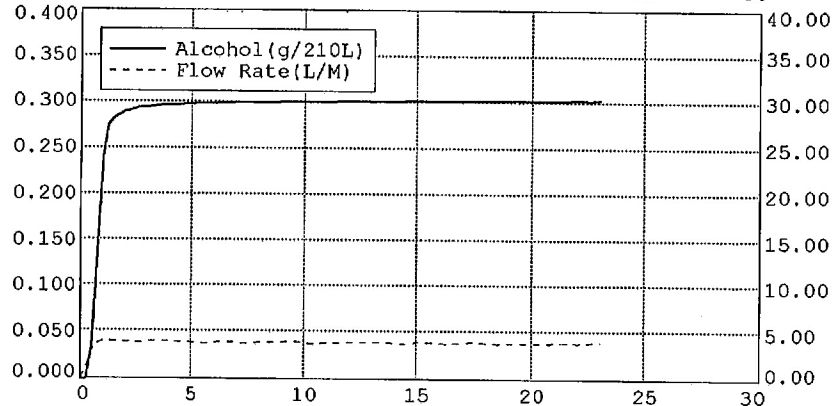
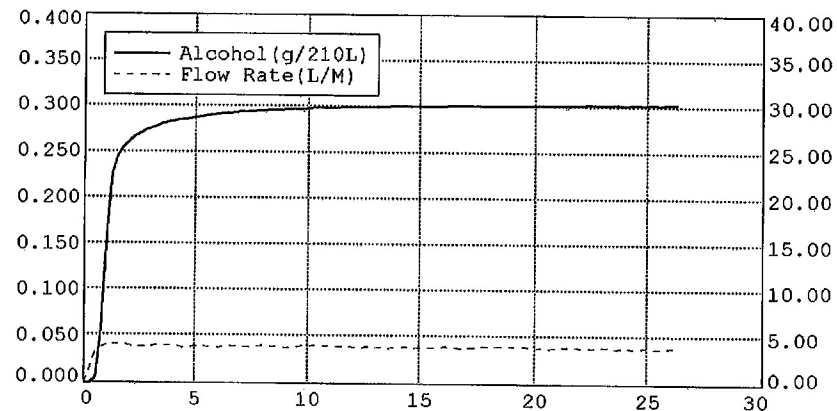
LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	15:20
INTERNAL STANDARD	VERIFIED	15:21
EXTERNAL STANDARD	0.303	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.303	15:23
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.302	15:24
BLANK TEST	0.000	15:25
EXTERNAL STANDARD	0.303	15:25
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.302	15:27
BLANK TEST	0.000	15:28

Average = 0.3029

Std Dev = 0.0006



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 04/30/2012
Time: 08:23:50

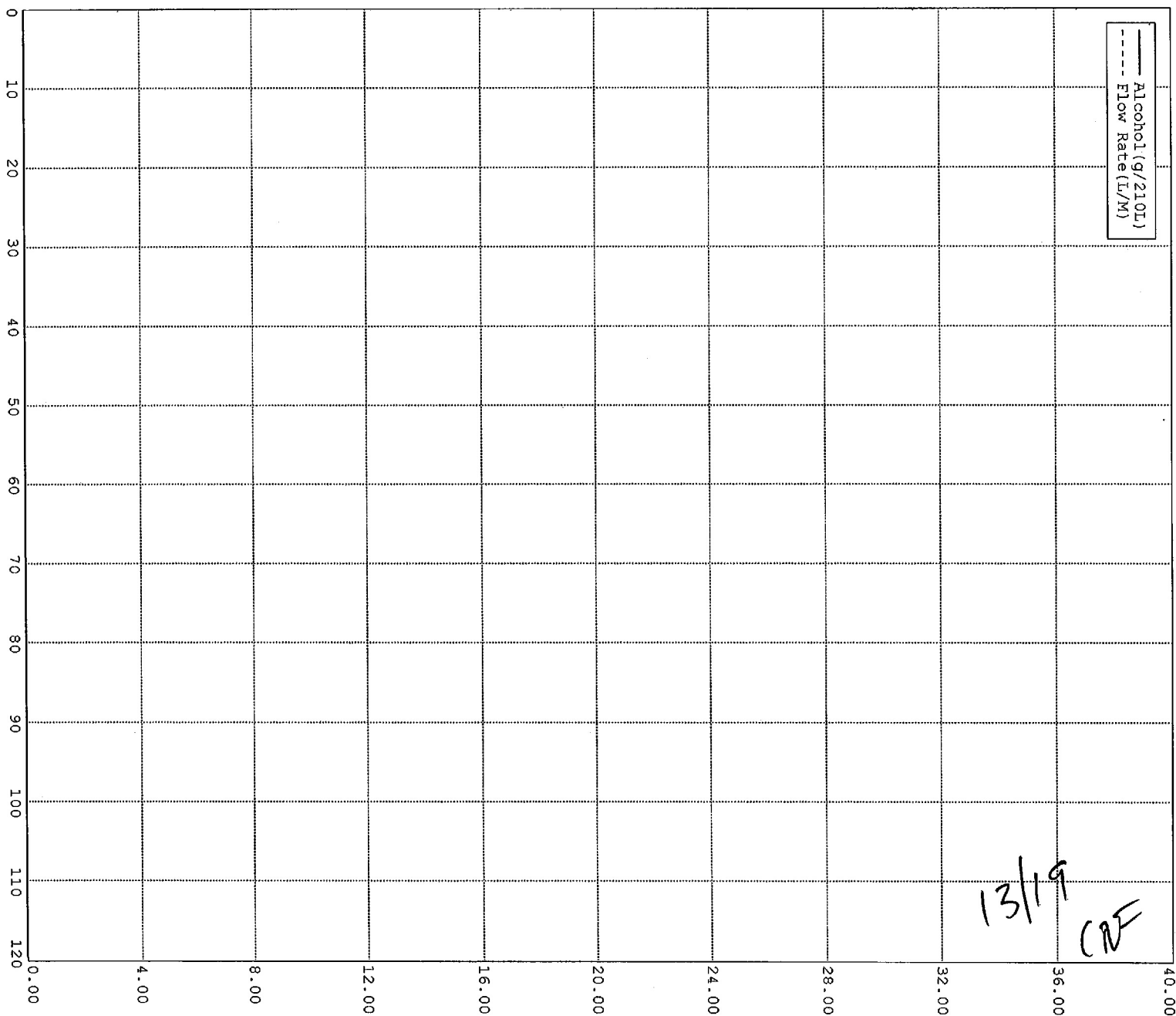
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

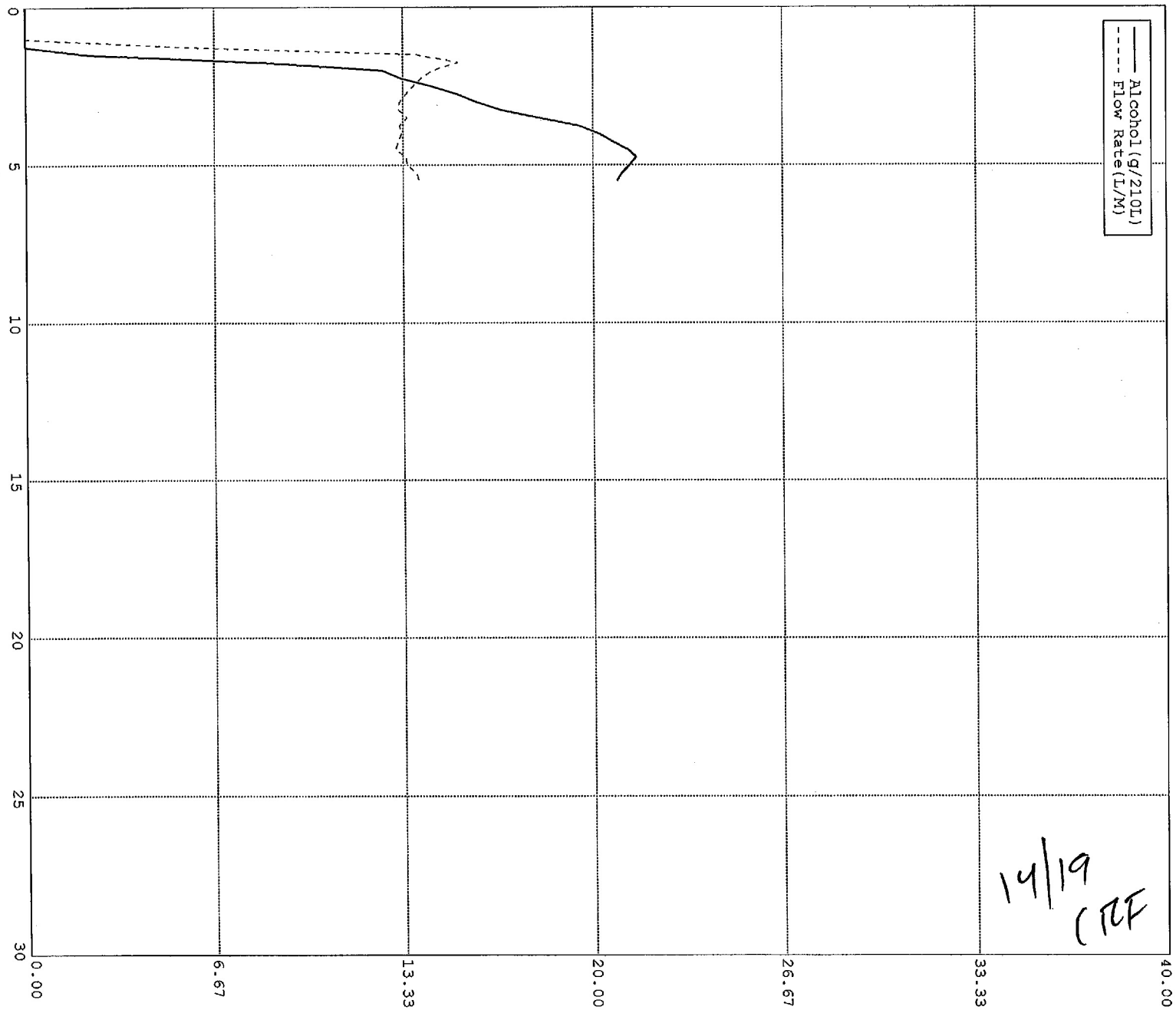
DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:25
BLANK TEST	0.000	08:25
INTERNAL STANDARD	VERIFIED	08:26
EXTERNAL STANDARD	0.078	08:26
BLANK TEST	0.000	08:27
SUBJECT SAMPLE	INCOMPLETE	08:29



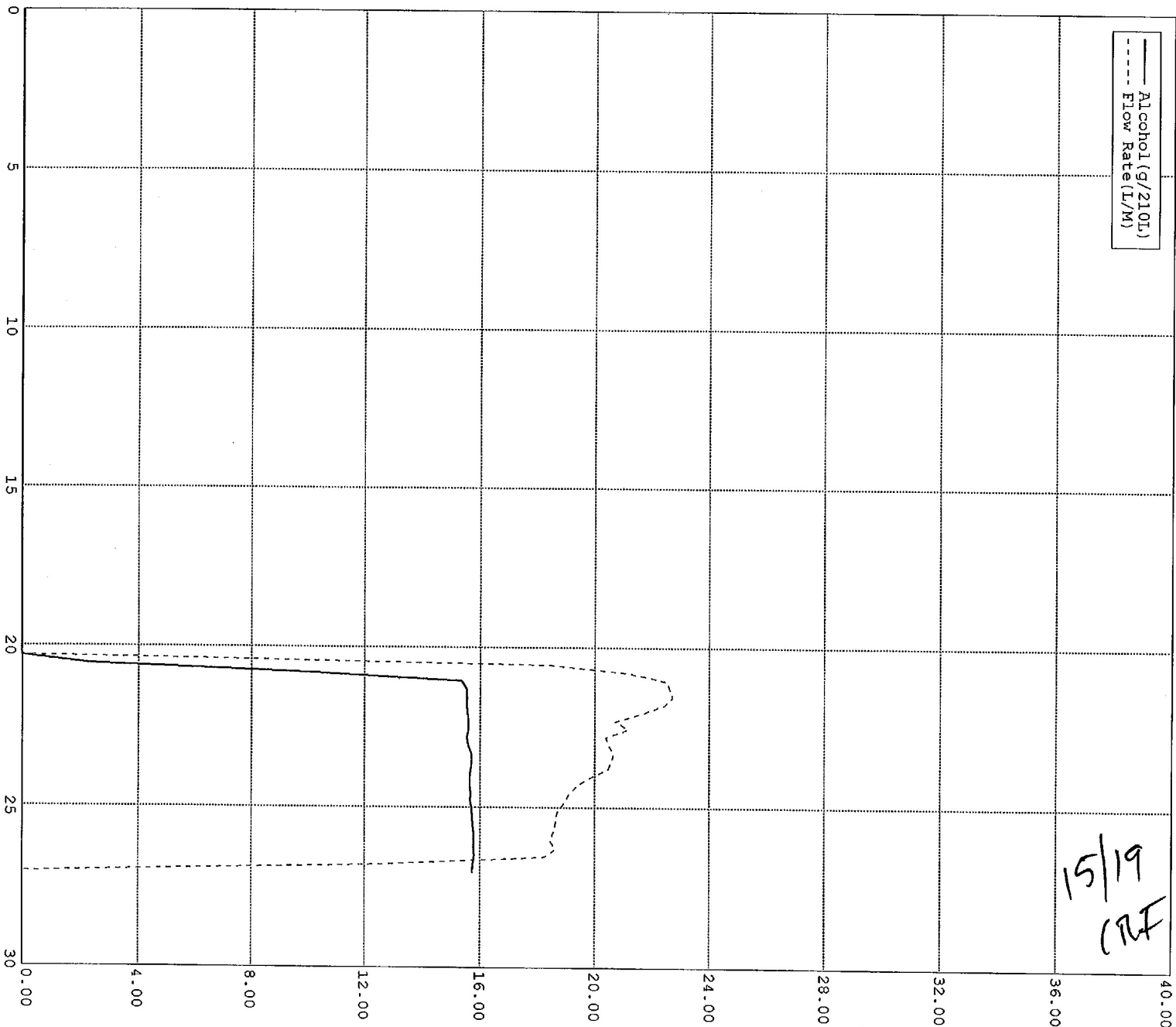
SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353Date: 04/30/2012
Time: 09:29:35SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INVALID MOUTH ETOH
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 09:34
INTERNAL STANDARD VERIFIED 09:34
EXTERNAL STANDARD 0.079 09:35
BLANK TEST 0.000 09:36
SUBJECT SAMPLE INVALID 09:36

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100353Date: 04/30/2012
Time: 10:08:48SUBJECT 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 29.50: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK		PASSED
BLANK TEST		10:50
INTERNAL STANDARD	0.000	10:50
Xq = 0.091 (1.66%)	VERIFIED	10:50
EXTERNAL STANDARD	0.079	10:50
X[1] = 0.0794 (-0.0005) (0.0029)		
BLANK TEST	0.000	10:51
SUBJECT SAMPLE	INTERFERENCE	10:52
X[1] = 0.0788 (-0.0117) (0.0015)		



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100353

Date: 04/30/2012
 Time: 11:08:05

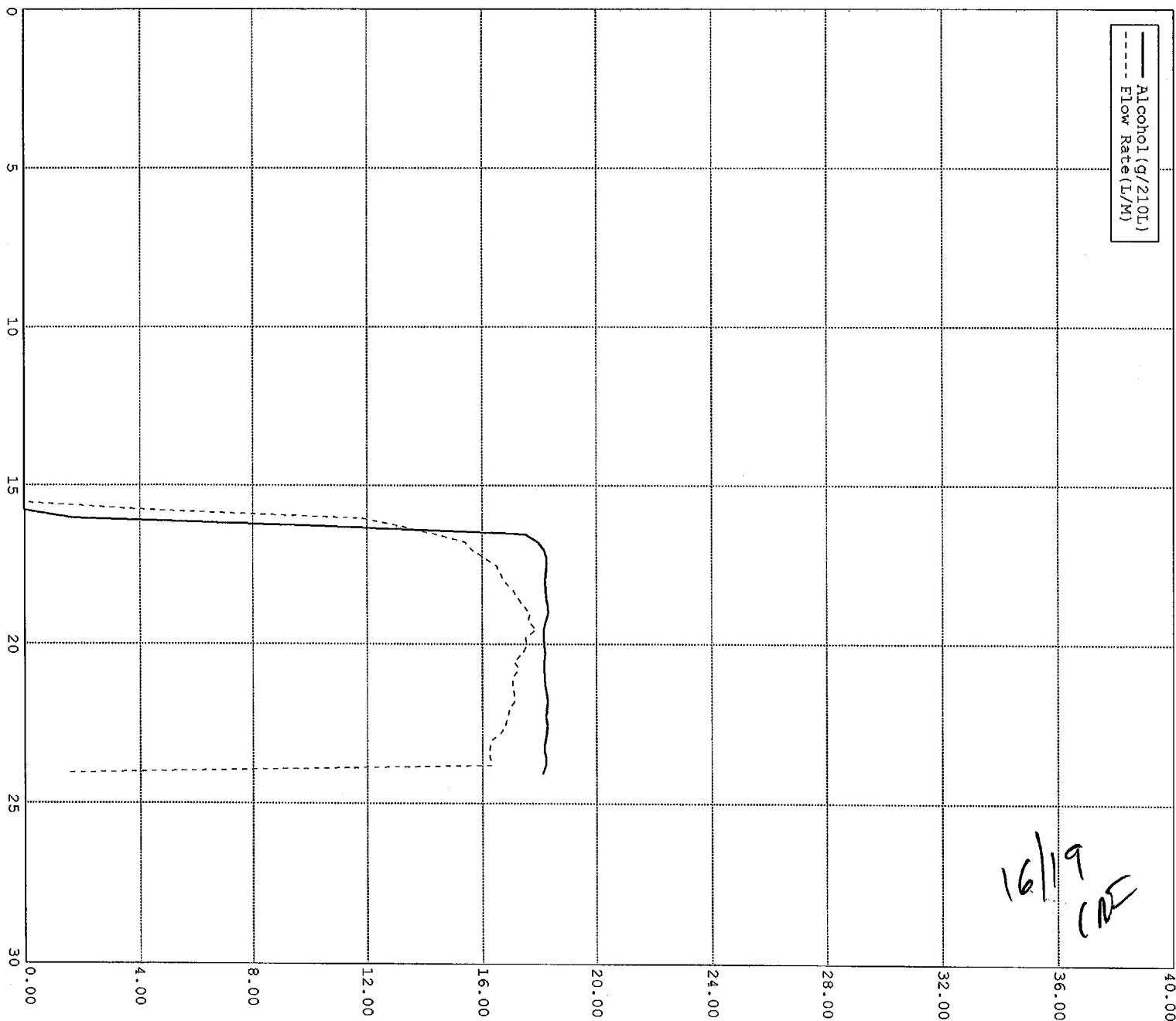
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.51: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:09
BLANK TEST	0.000	11:09
INTERNAL STANDARD	VERIFIED	11:10
X _g = 0.091 (2.15%)		
EXTERNAL STANDARD	0.079	11:10
X[1] = 0.0792 (-0.0008) (0.0032)		
BLANK TEST	0.000	11:11
SUBJECT SAMPLE	INTERFERENCE	11:11
X[1] = 0.0914 (-0.0229) (0.0022)		



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100353

Date: 04/30/2012
 Time: 11:21:58

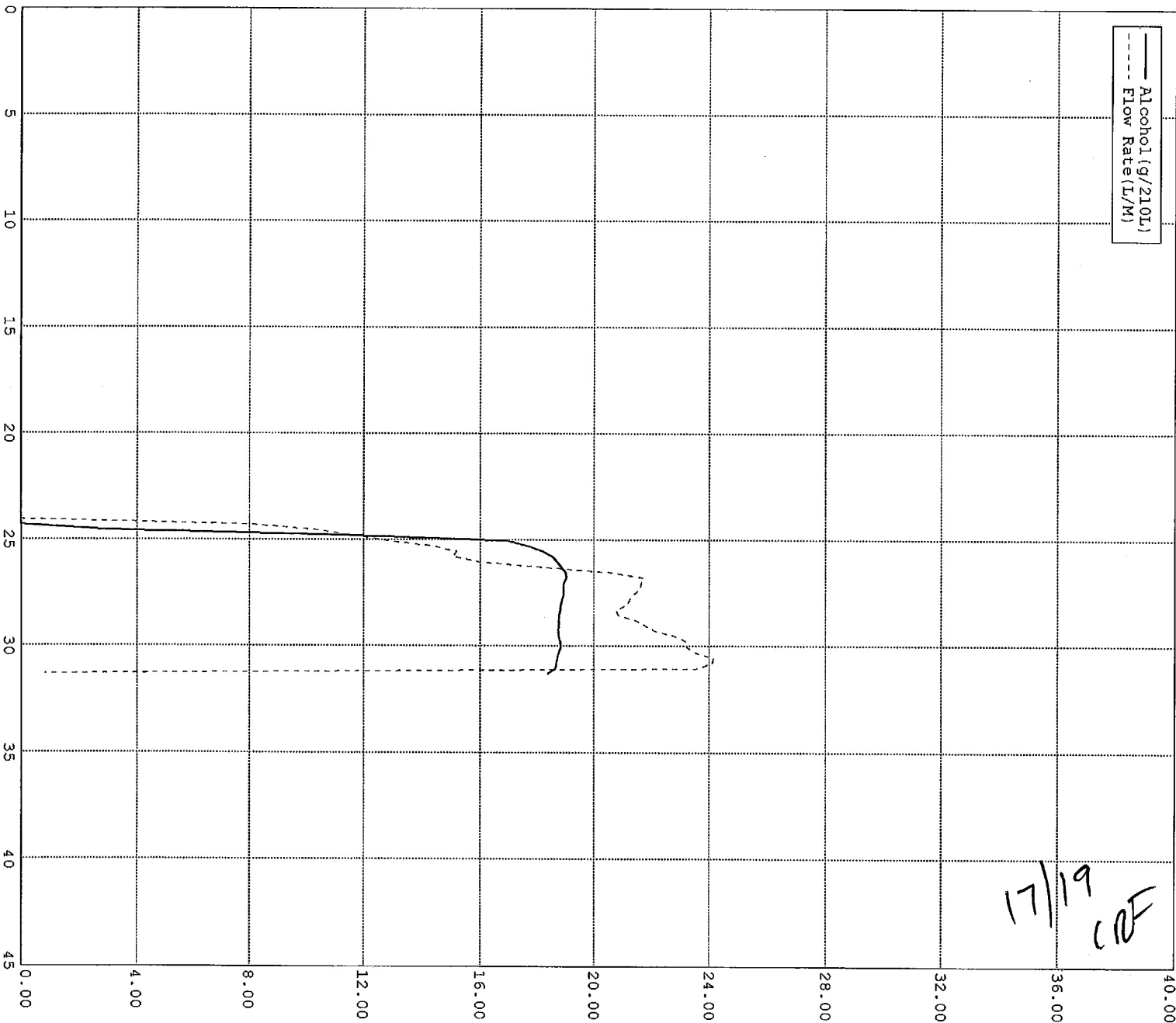
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.50: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:24
BLANK TEST	0.000	11:24
INTERNAL STANDARD	VERIFIED	11:24
Xq = 0.091 (1.56%)		
EXTERNAL STANDARD	0.079	11:24
X[1] = 0.0795 (-0.0003)	(0.0028)	
BLANK TEST	0.000	11:25
SUBJECT SAMPLE (Vol=2.26L)	0.092	11:26
X[1] = 0.0925 (-0.0004)	(0.0010)	
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.078	11:27
X[1] = 0.0788 (-0.0009)	(0.0021)	
BLANK TEST	0.000	11:28



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100353

Date: 04/30/2012
 Time: 11:40:47

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

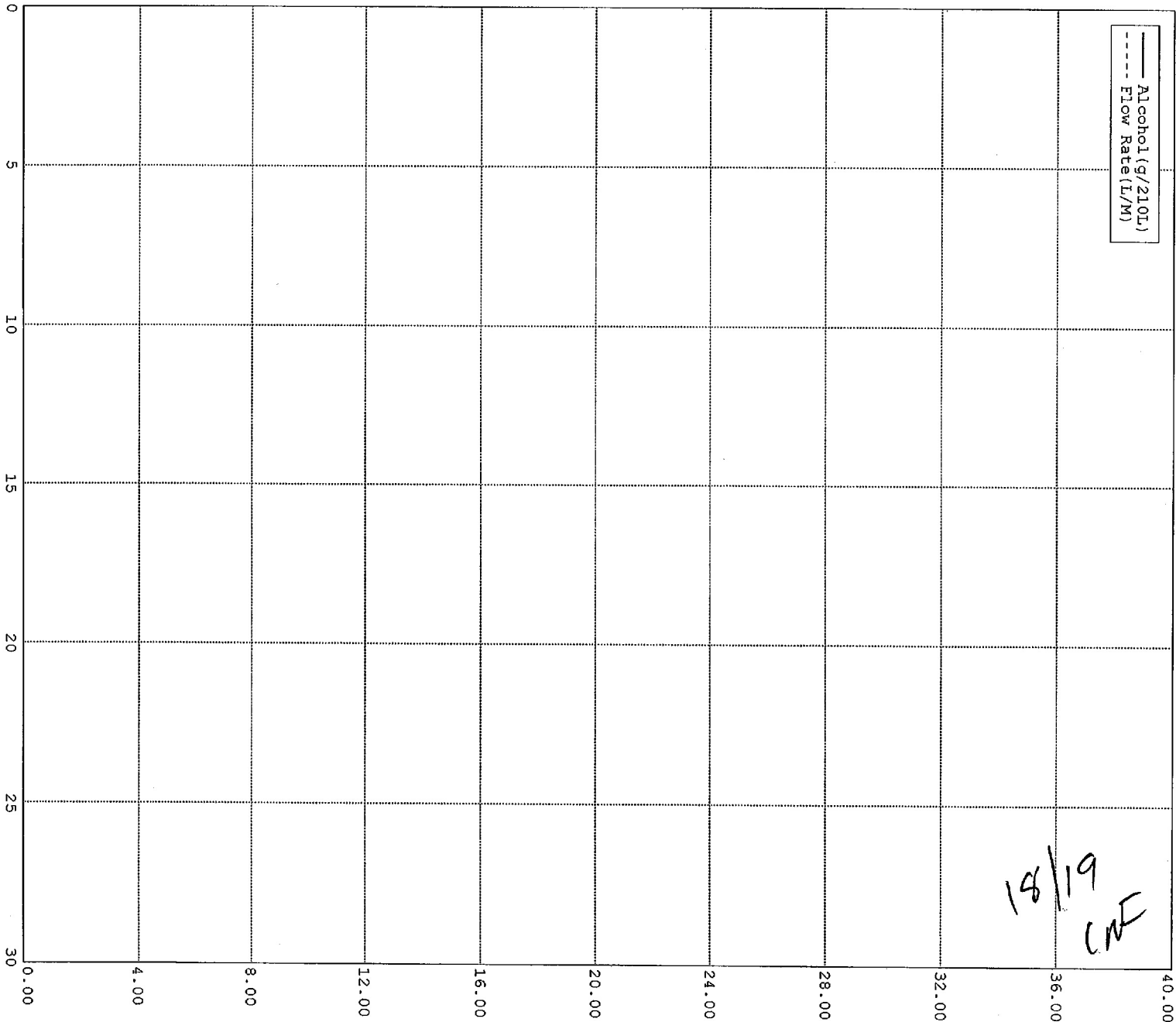
OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.50: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:43
BLANK TEST	0.000	11:43
INTERNAL STANDARD	VERIFIED	11:43
EXTERNAL STANDARD	0.079	11:43
BLANK TEST	0.000	11:44

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 04/30/2012
Time: 13:40:26

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 #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:47
BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.079	13:47
BLANK TEST	0.000	13:48
SUBJECT SAMPLE	0.000	13:49
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.079	13:50
BLANK TEST	0.000	13:51

