

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100413 Analyst CTF Start Date 1/8/13

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 02012080A1 Exp 3/1/14

iv. 0.100g/210L Mnf ILMO Lot 0761100A3 Exp 3/1/13

v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/13

1. Simulator S/N DR4162 Date Calibrated 10/9/12

vi. 0.300g/210L Mnf Guth Lot 12050 Exp 3/21/14

1. Simulator S/N DR4178 Date Calibrated 2/21/12

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 11100 Level 0.10 Exp 7/6/13

1. Simulator S/N DR5298 Date Calibrated 10/9/12

ii. Isopropanol - Mnf Guth Lot 11250 Level 0.10 Exp 12/6/13

1. Simulator S/N SD1302 Date Calibrated 10/9/12

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N SD1176 Date Calibrated 10/9/12

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 1/9/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dat: 100413

Date: 01/08/2013
Time: 12:36:59

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 49.1°C PASSED

PUMP INFO

Flow Rate = 5.738 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

2/19
CWF

Technician Screen

DATAMASTER dmt: 100413

Date: 01/08/2013
Time: 12:41 PM

Temperatures (°C)
Sample Cell: 49.1°C
Breath Tube: 47.2°C

Current Barometer: 29.4 in
Volume (Ltr): 1.47

Settings
Lamp: 1.82 V
Bias: 79 V
Cooler: 1.64 V
Chopper: 533 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.030 V

3/19
CF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100413

Date: 04/11/2012
Time: 05:10:23

Ca = 0.1000
CAL = 0.972379 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0043 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.0905 0.0500 <= Xq < 0.2000
a21 = 1.134155 1.050 <= a21 < 1.300
a31 = 0.441149 0.300 <= a31 < 0.800

4/11/12
WF

SUBJECT TEST

Alaska Department of Public Safety
 DYNAMETER dnt: 100413

Date: 01/08/2013
 Time: 12:57:44

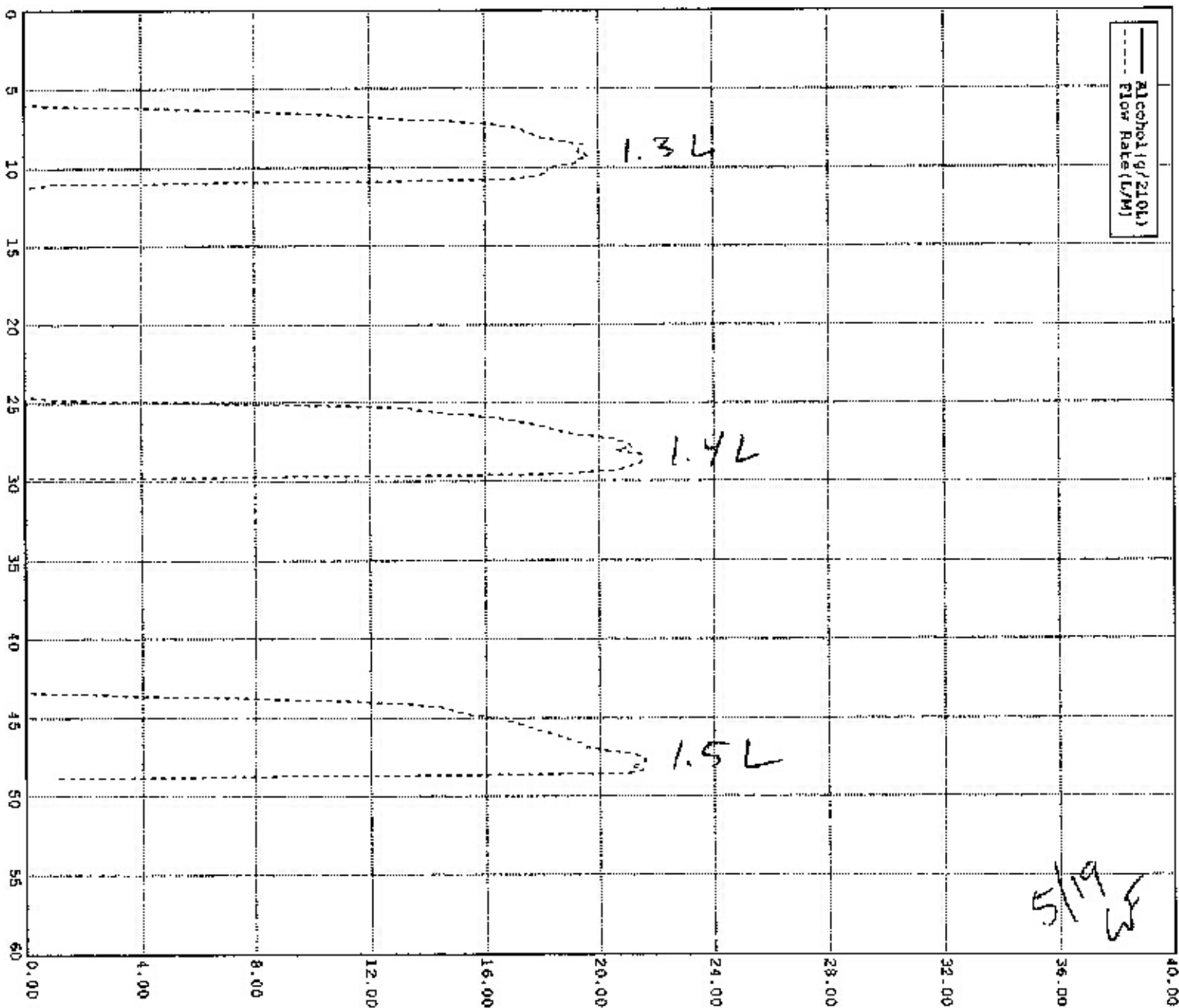
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.44: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	12:58
BLANK TEST	0.000	12:58
INTERNAL STANDARD	VERIFIED	12:58
EXTERNAL STANDARD	0.077	12:59
BLANK TEST	0.000	13:00
SUBJECT SAMPLE	0.000	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.077	13:02
BLANK TEST	0.000	13:03



LINEARITY CHECK

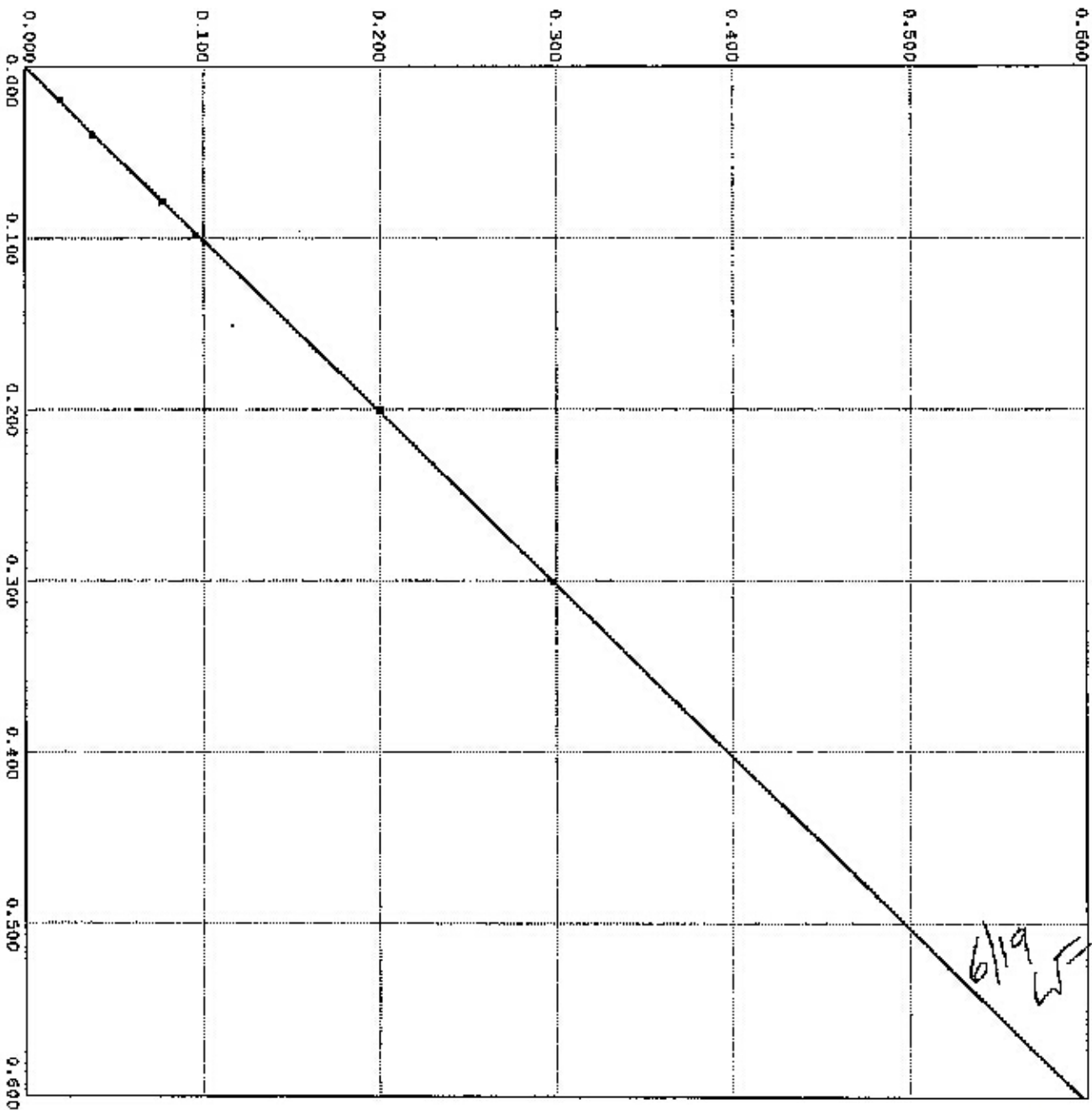
Alaska Department of Public Safety
 DATAMASTER dmc: 100413

Date: 01/08/2013
 Time: 13:19:11

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0203	0.0001
0.039	0.0393	0.0002
0.078	0.0780	0.0003
0.098	0.0967	0.0002
0.200	0.2007	0.0004
0.300	0.2986	0.0004

SLOPE = 0.994547
 R² = 0.999928



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100413

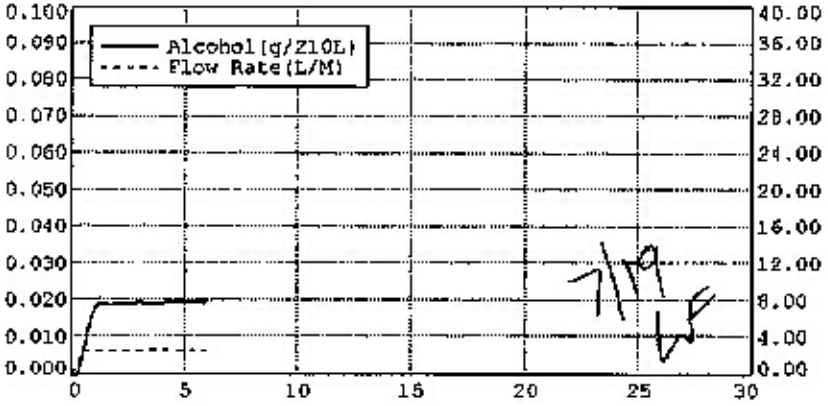
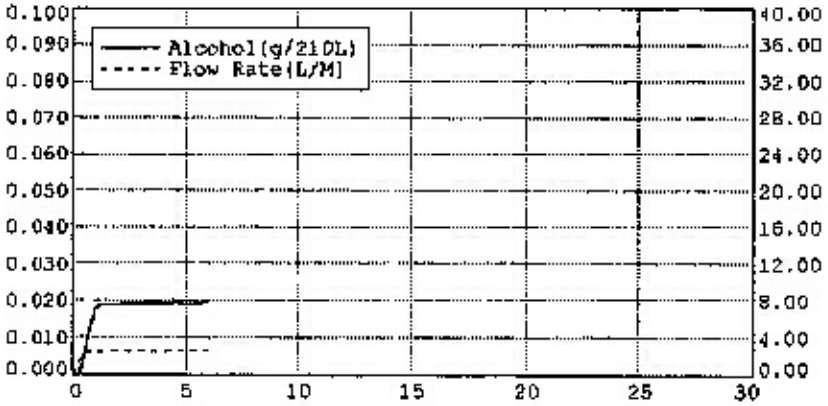
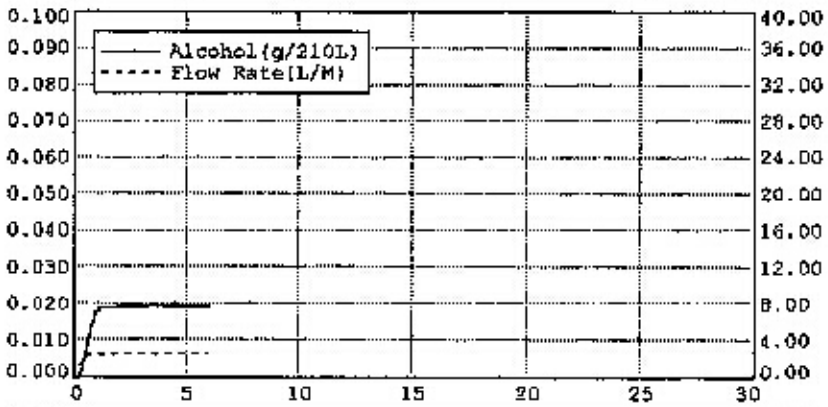
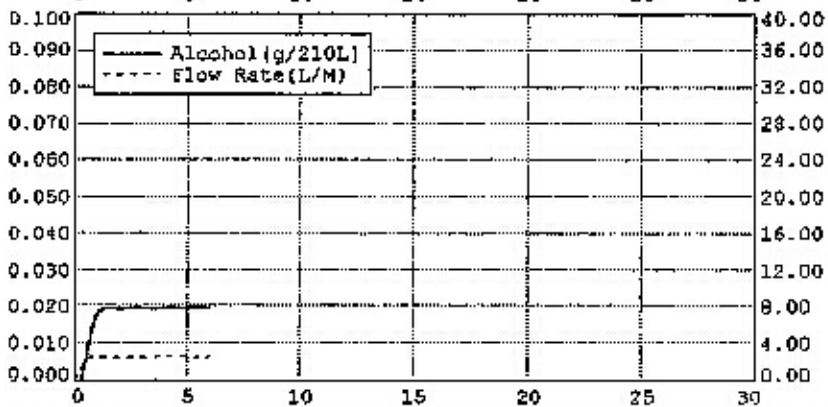
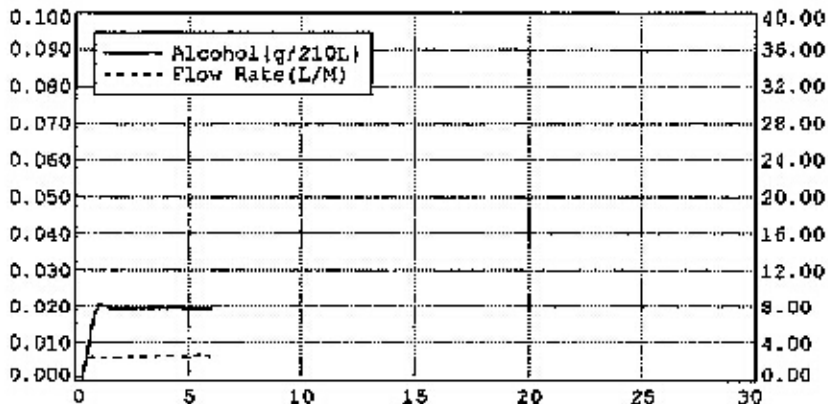
Date: 01/09/2013
 Time: 13:19:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.45: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:20
INTERNAL STANDARD	VERIFIED	13:20
EXTERNAL STANDARD	0.020	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.020	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.020	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.020	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.020	13:25
BLANK TEST	0.000	13:26

Average = 0.0203
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

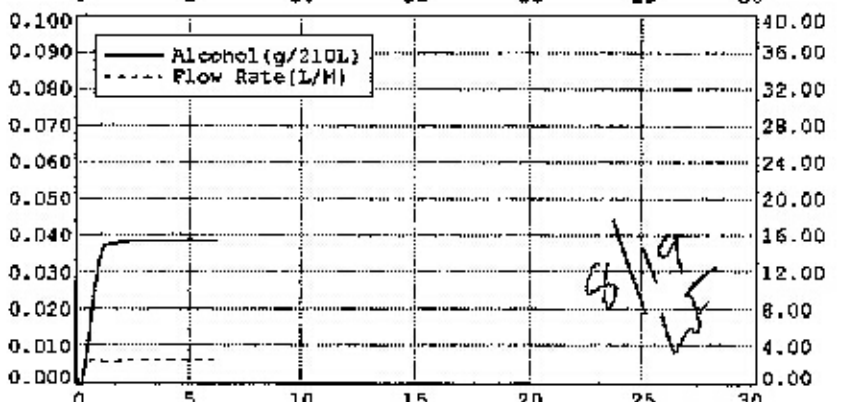
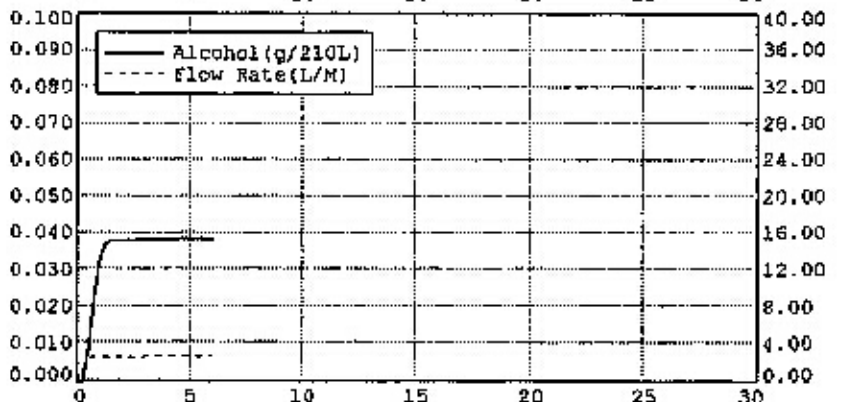
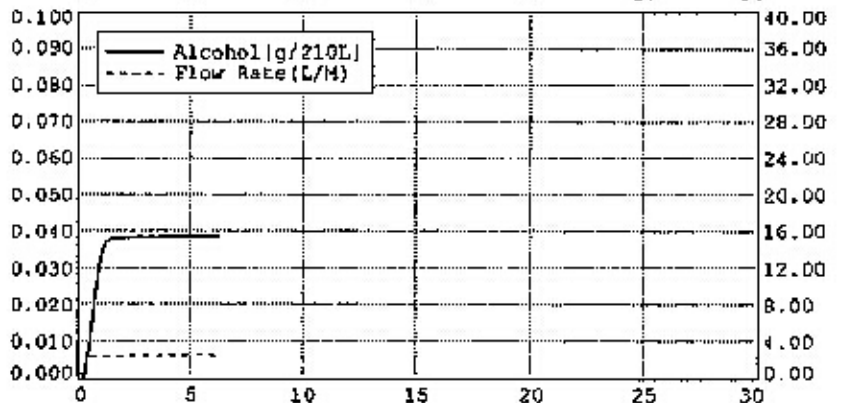
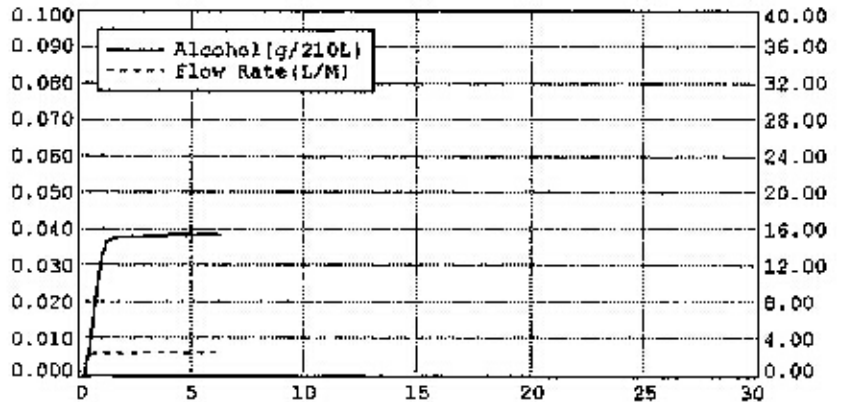
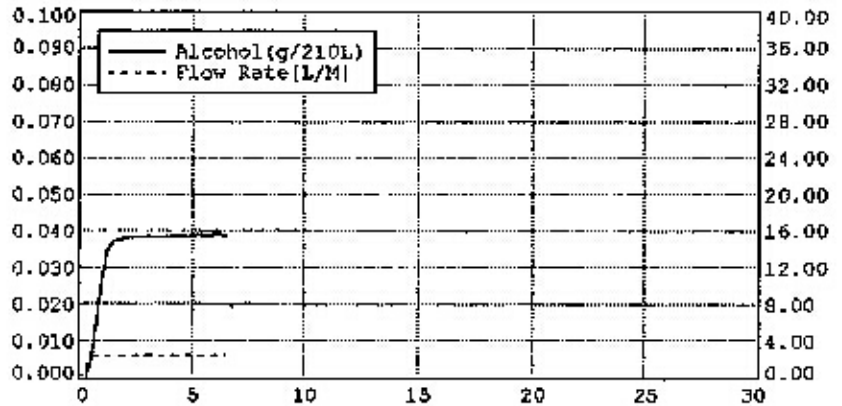
Date: 01/08/2013
 Time: 13:27:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.46: 0.039
 LOT #: 07611040R4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:28
INTERNAL STANDARD	VERIFIED	13:28
EXTERNAL STANDARD	0.039	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.039	13:30
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.039	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.039	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.039	13:33
BLANK TEST	0.000	13:34

Average = 0.0393
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dnt: 100413

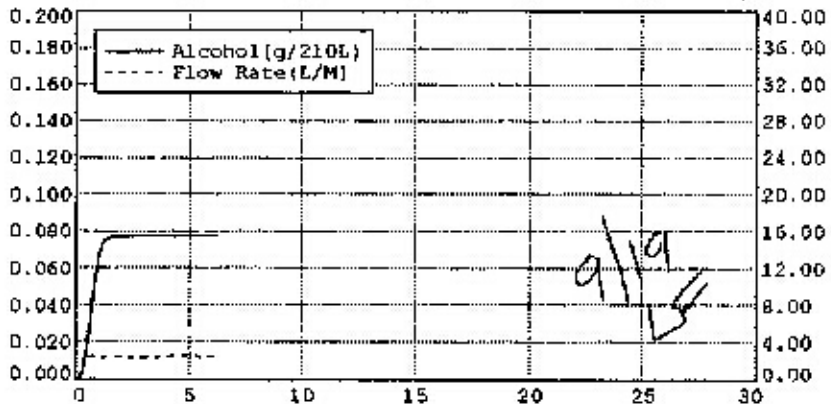
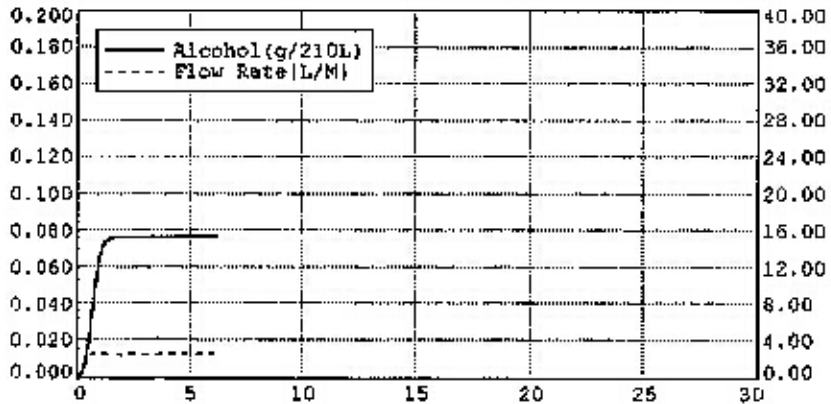
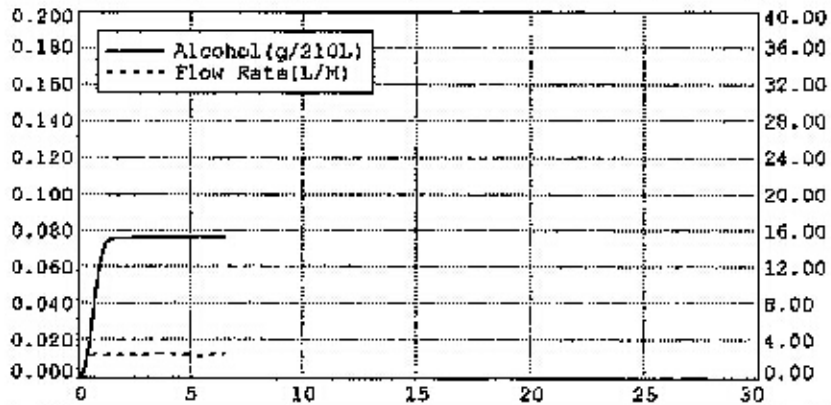
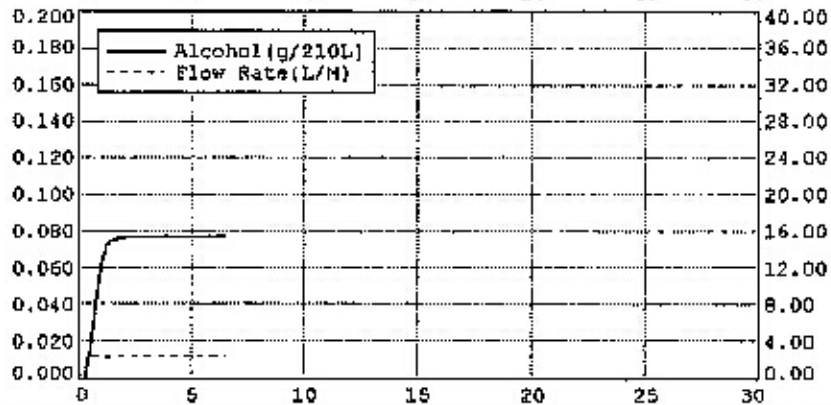
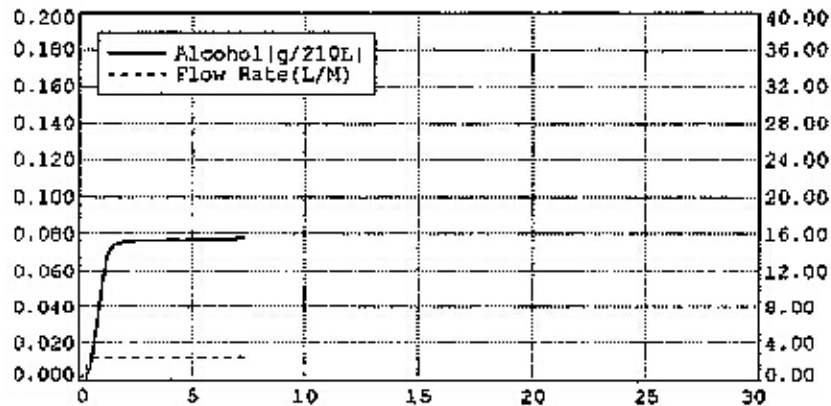
Date: 01/08/2013
Time: 13:34:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.46: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	13:36
INTERNAL STANDARD	VERIFIED	13:36
EXTERNAL STANDARD	0.078	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.078	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.077	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.077	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.078	13:40
BLANK TEST	0.000	13:41

Average = 0.0780
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dnt: 100413

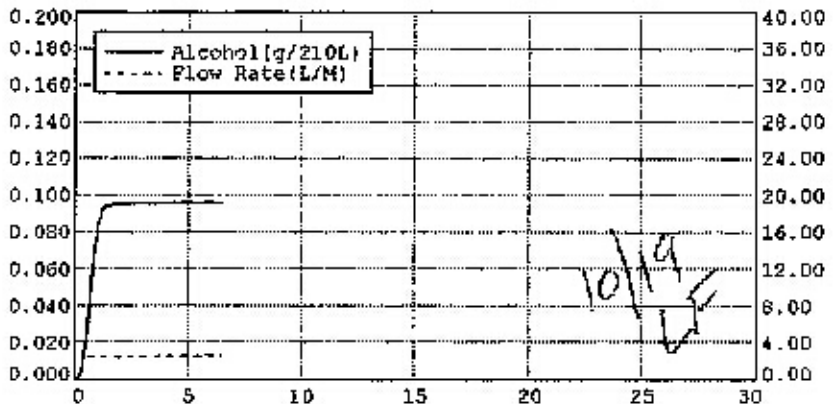
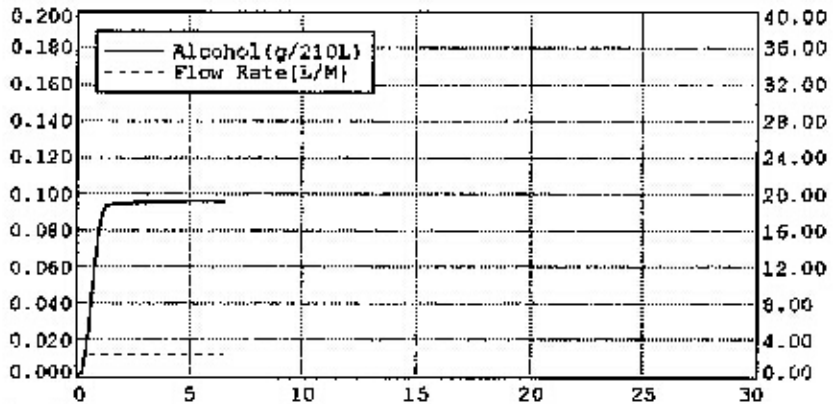
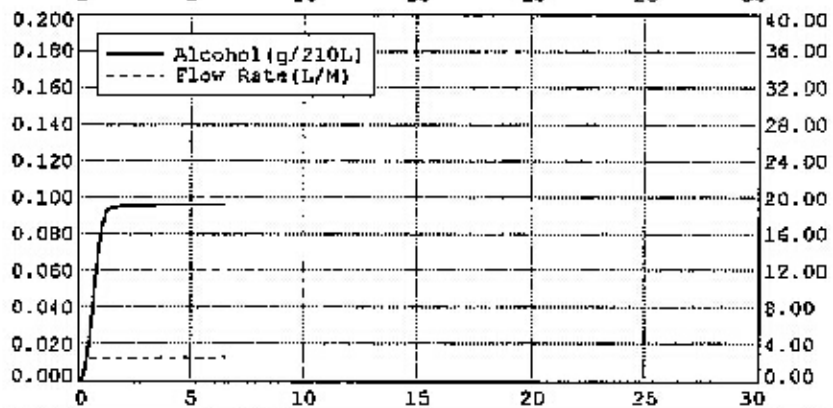
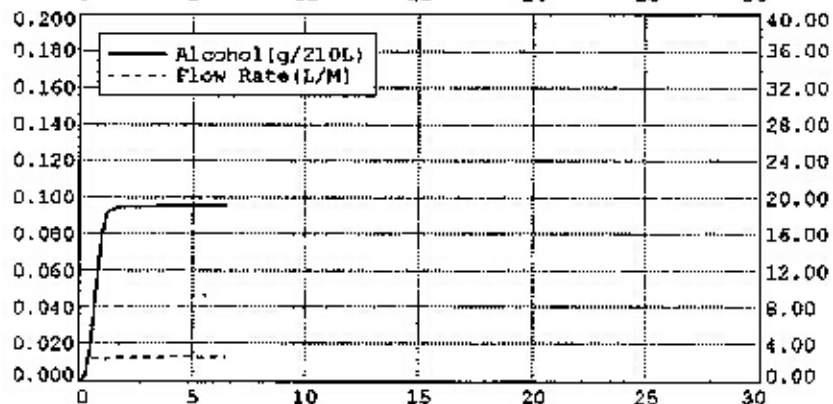
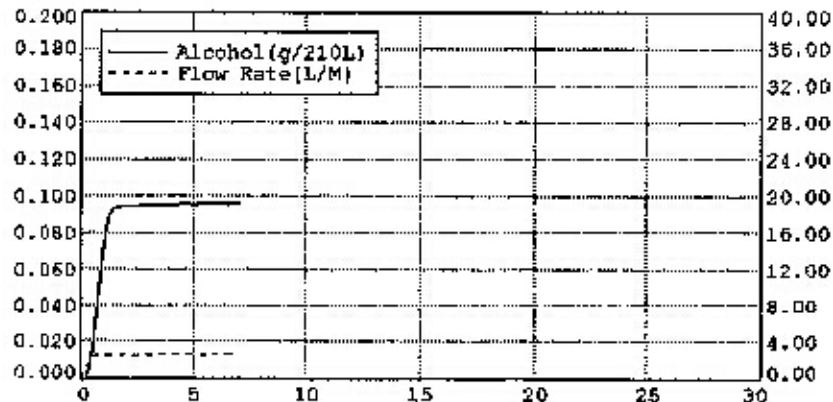
Date: 01/08/2013
 Time: 13:43:44

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.46: 0.098
 LOT #: 07511100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:45
EXTERNAL STANDARD	0.096	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.096	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.096	13:48
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.097	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.096	13:50
BLANK TEST	0.000	13:51

Average = 0.0957
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dnt: 100413

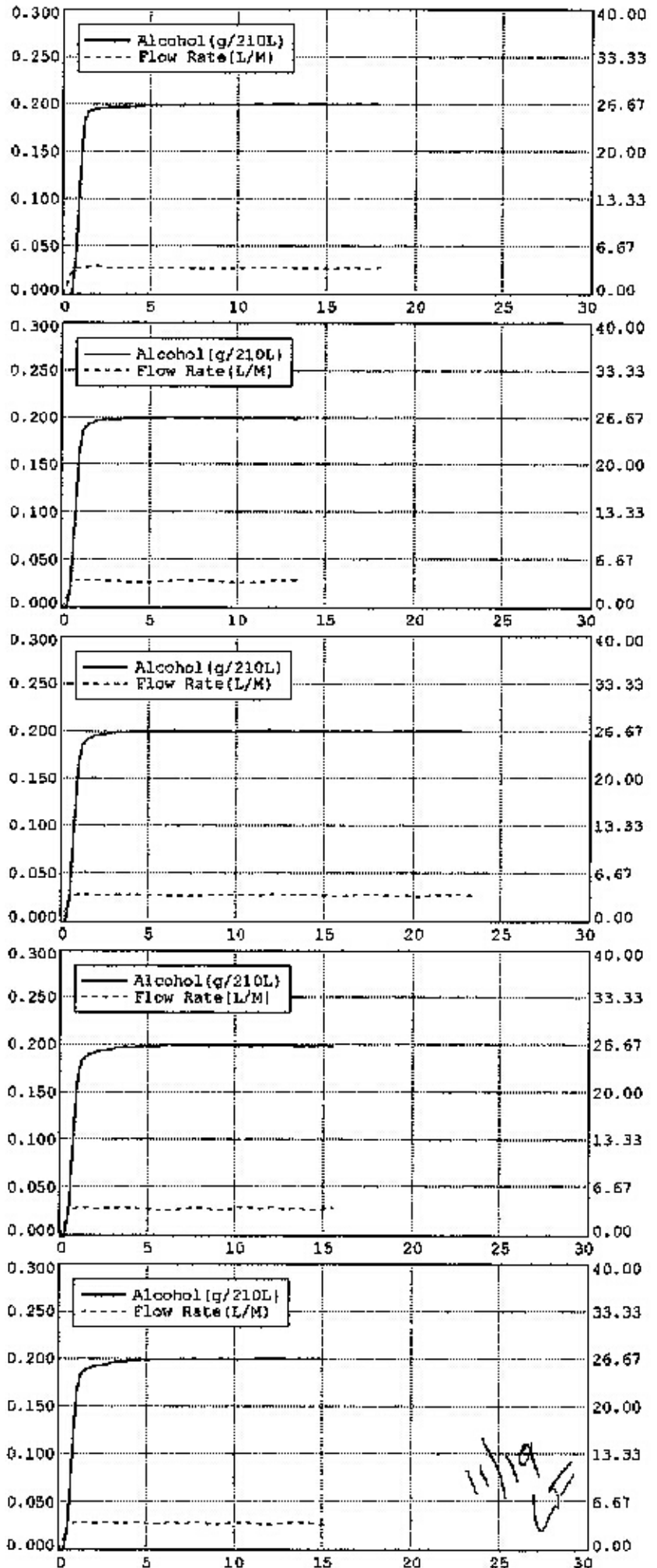
Date: 01/08/2013
 Time: 13:53:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 11120
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:54
EXTERNAL STANDARD	0.201	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.200	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.201	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.200	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.200	14:00
BLANK TEST	0.000	14:01

Average = 0.2007
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dnt: 100413

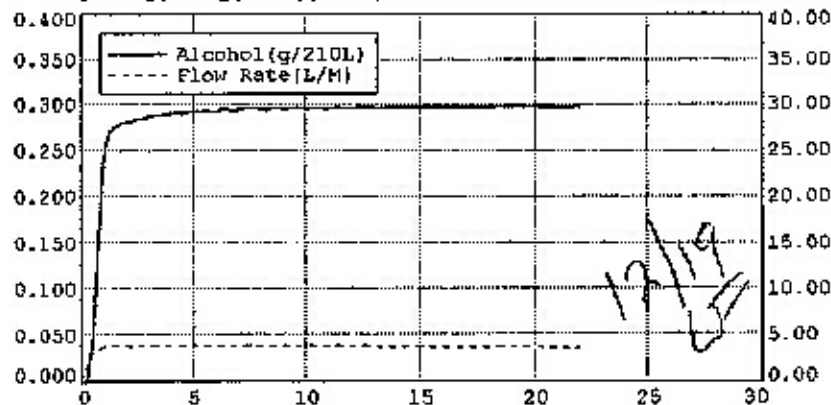
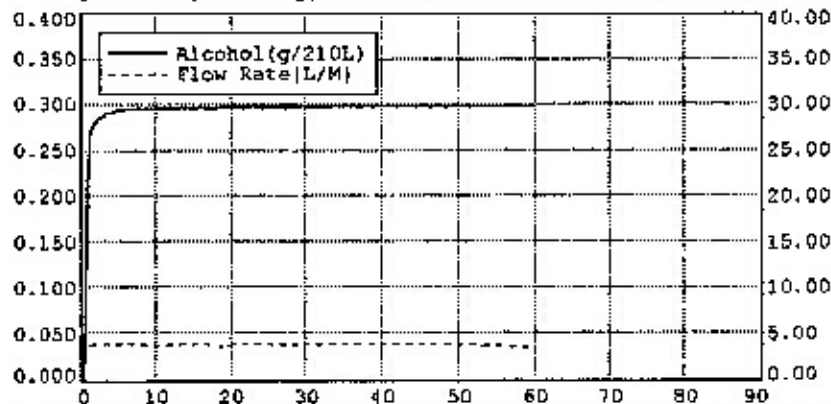
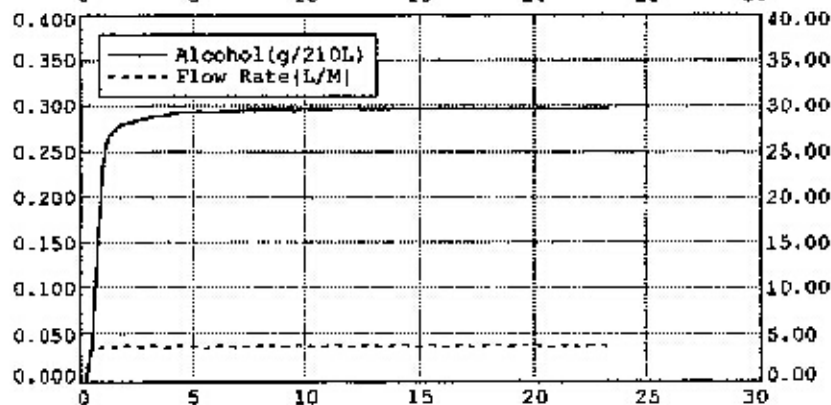
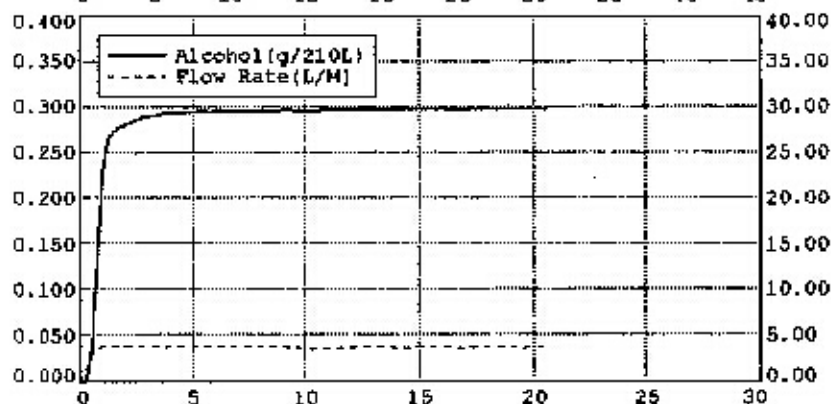
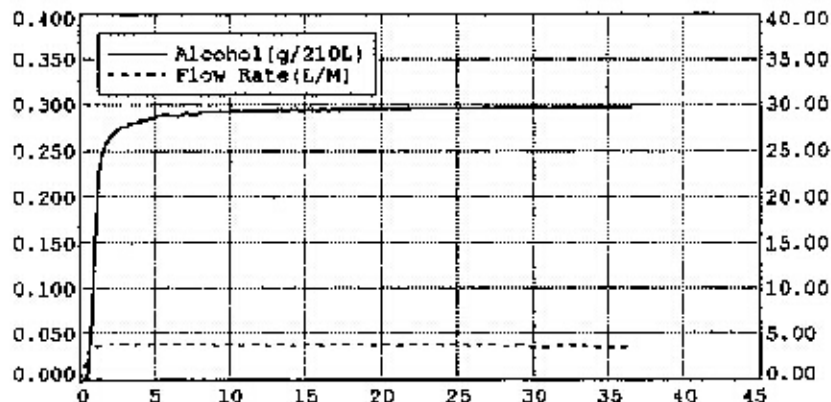
Date: 01/08/2013
Time: 14:02:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 12050
EXPIRATION: 03/21/2014

BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:04
EXTERNAL STANDARD	0.298	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.298	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.298	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.299	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.298	14:11
BLANK TEST	0.000	14:12

Average = 0.2986
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100413

Date: 01/08/2013
 Time: 15:01:48

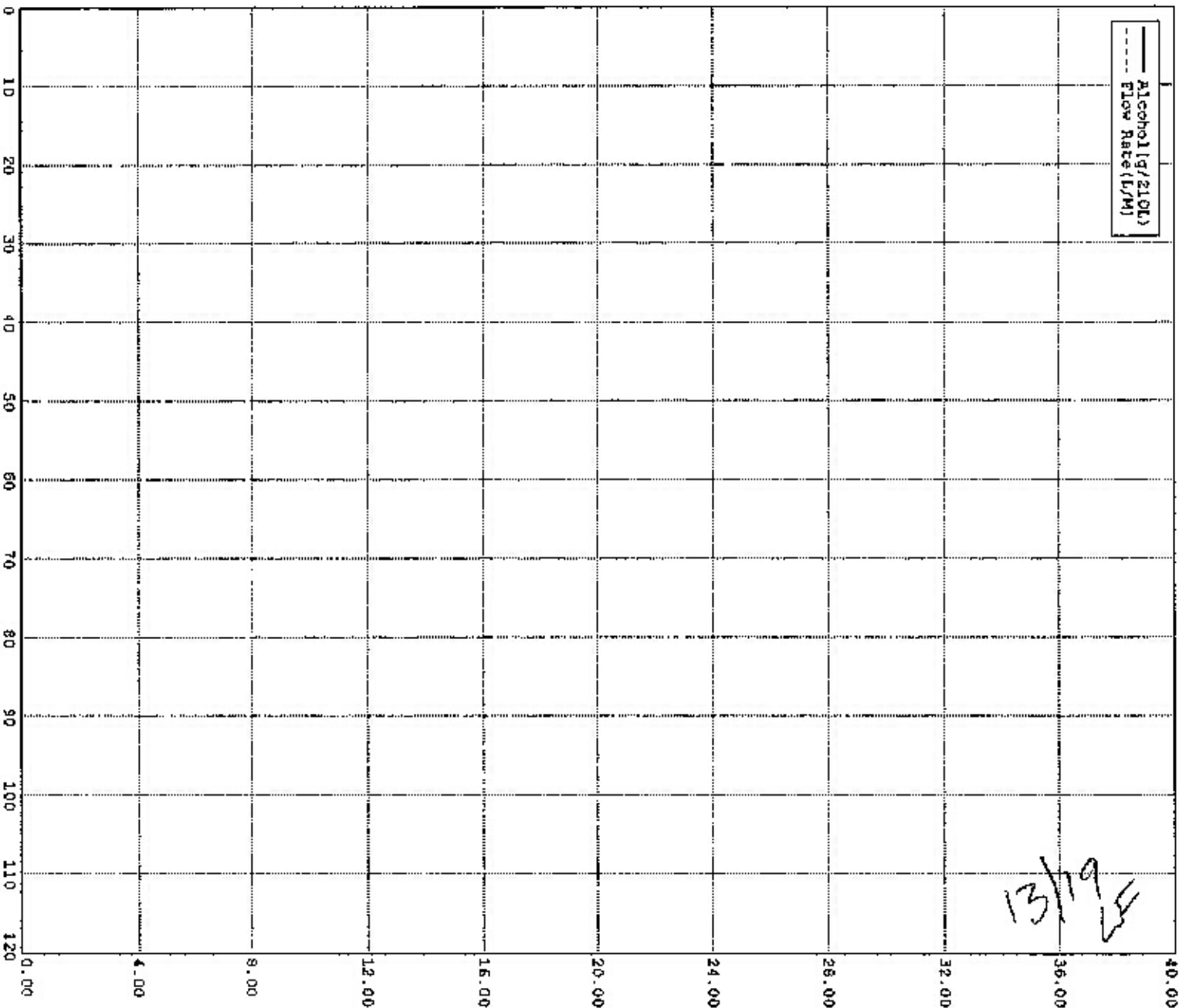
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 #: 02012080A1
 EXPIRATION: 02/01/2014

DIAGNOSTIC CHECK	PASSED	15:14
BLANK TEST	0.000	15:14
INTERNAL STANDARD	VERIFIED	15:14
EXTERNAL STANDARD	0.078	15:14
BLANK TEST	0.000	15:15
SUBJECT SAMPLE	INCOMPLETE	15:17



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

Date: 01/09/2013
 Time: 09:20:19

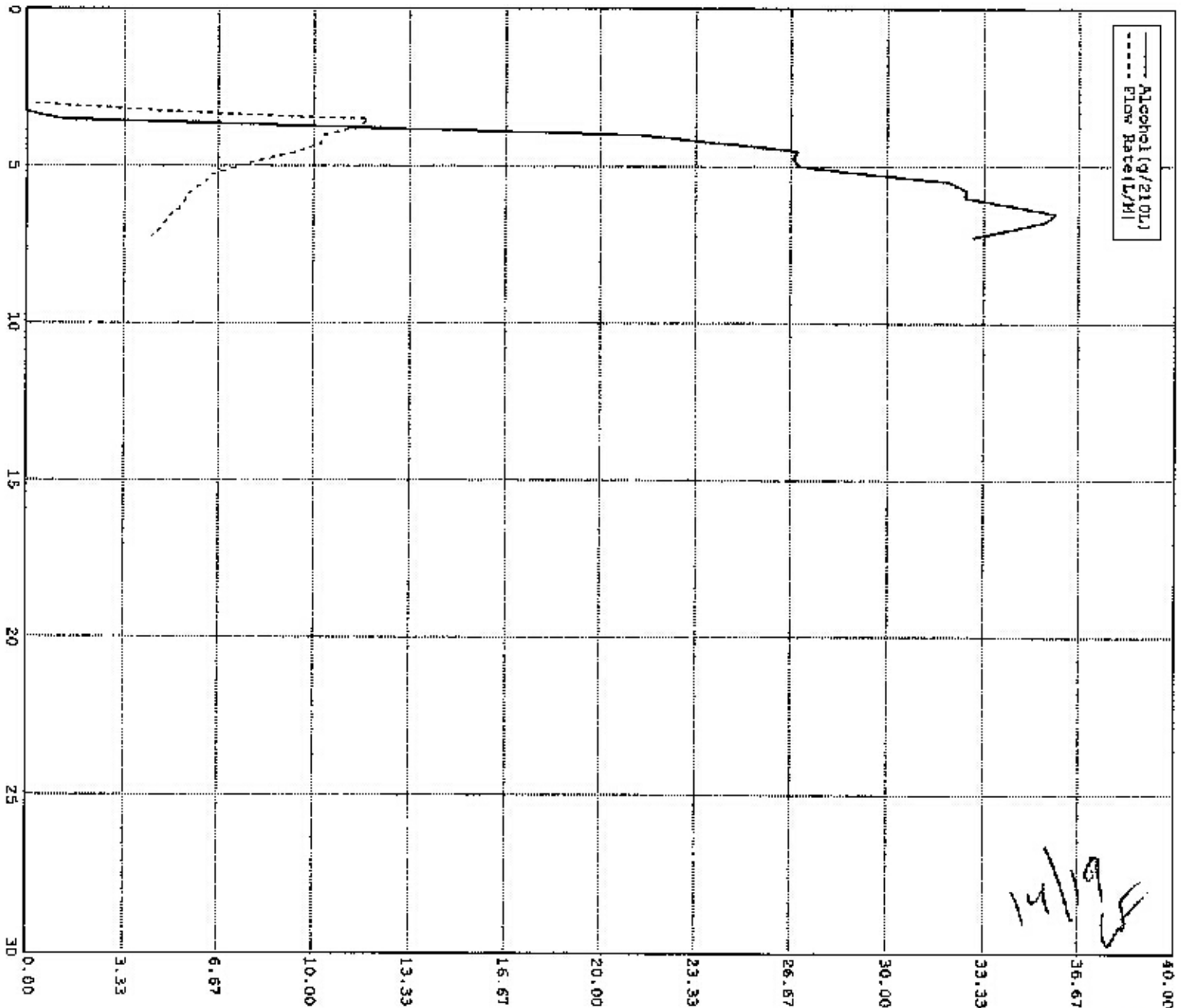
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INVALID MOUTH ALCOHOL
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:24
BLANK TEST	0.000	09:24
INTERNAL STANDARD	VERIFIED	09:24
EXTERNAL STANDARD	0.079	09:24
BLANK TEST	0.000	09:25
SUBJECT SAMPLE	INVALID	09:26



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

Date: 01/09/2013
 Time: 09:33:26

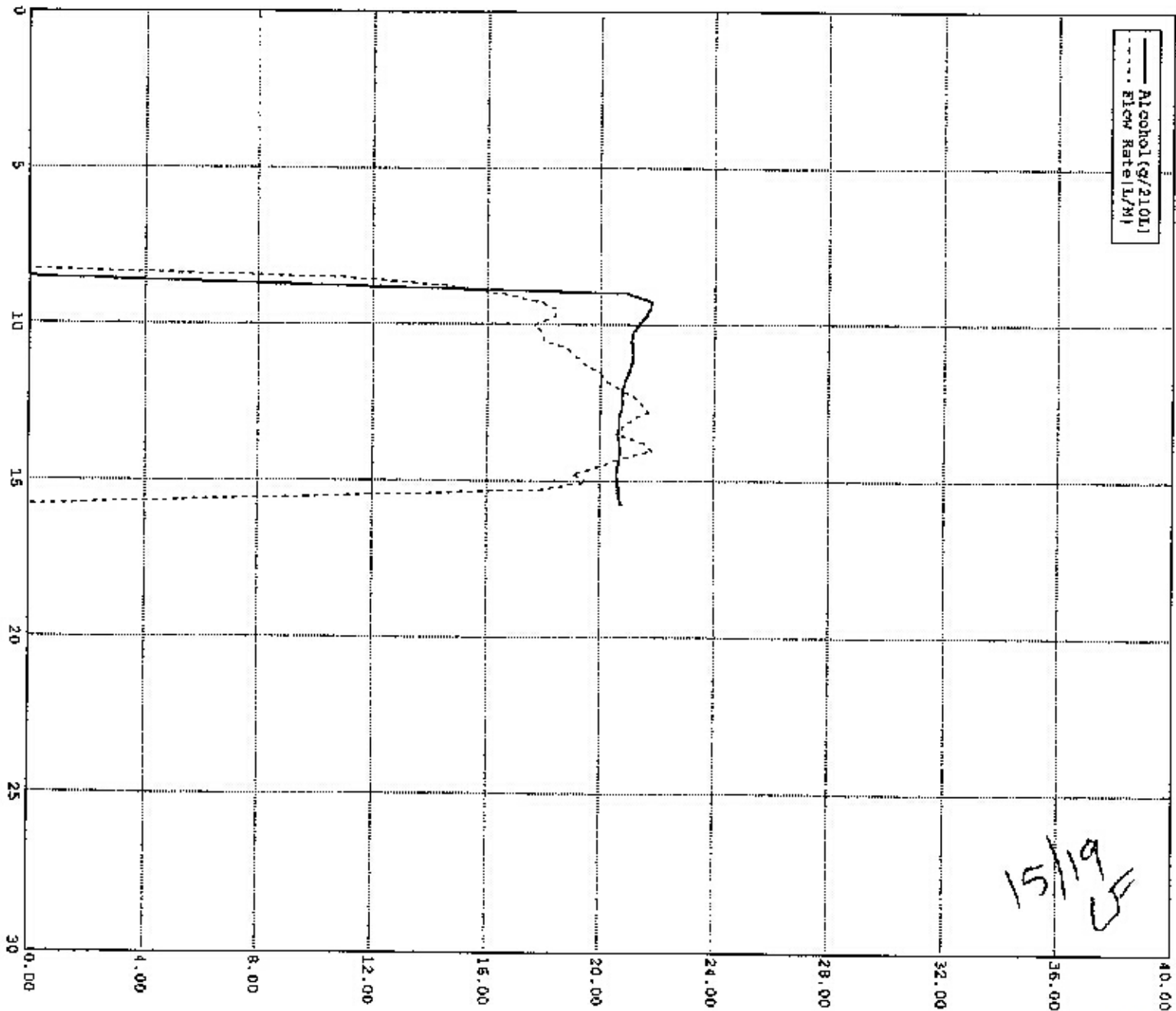
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE FLOW AND ACTIONS
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:35
BLANK TEST	0.000	09:35
INTERNAL STANDARD	VERIFIED	09:35
Xq = 0.091 (0.00%)		
EXTERNAL STANDARD	0.078	09:36
X[1] = 0.0785 (-0.0018) (0.0011)		
BLANK TEST	0.000	09:37
SUBJECT SAMPLE	INTERFERENCE	09:37
X[1] = 0.1039 (-0.0191) (-0.0003)		



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100413

Date: 01/09/2013
 Time: 09:41:40

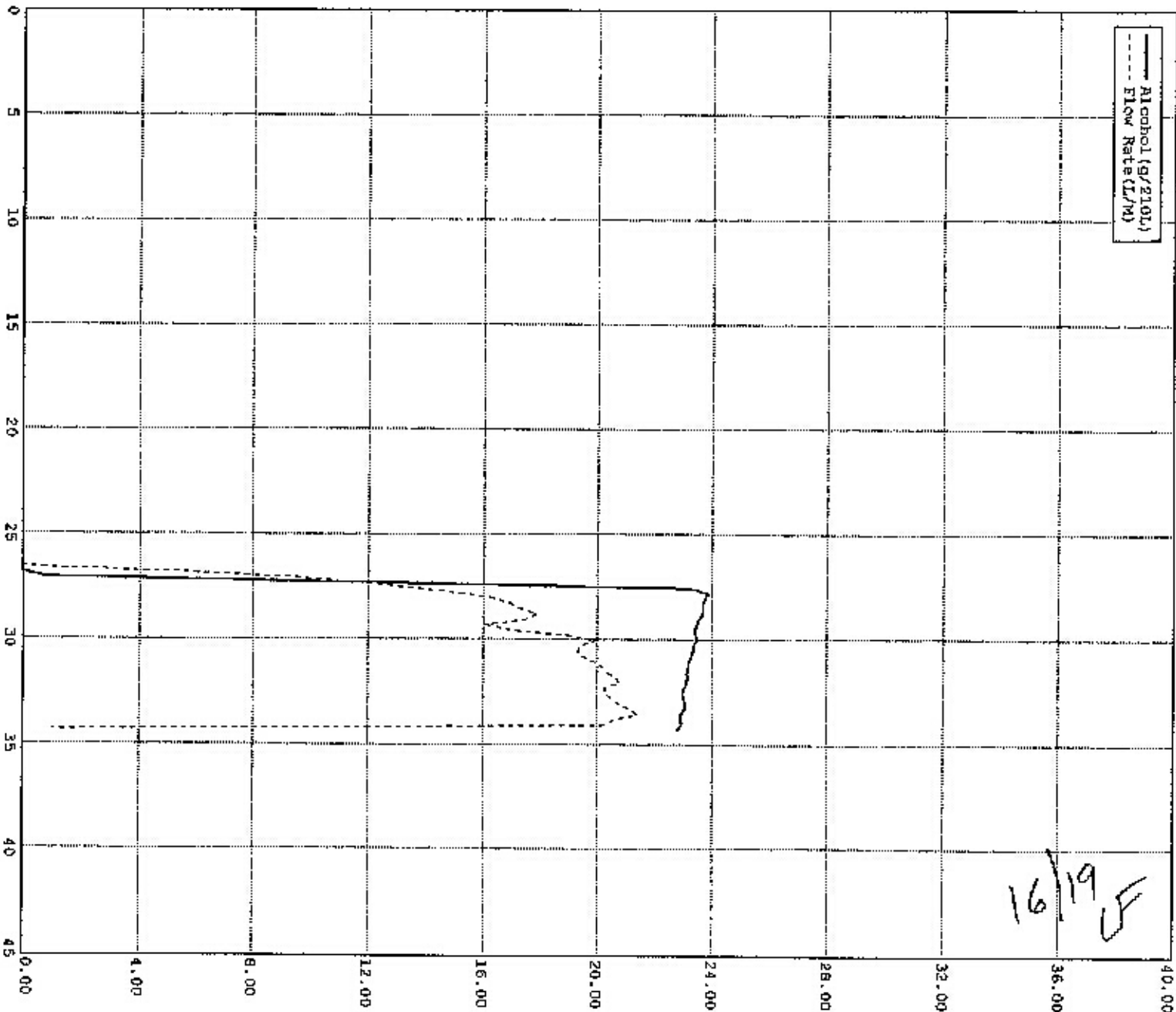
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.79: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:44
BLANK TEST	0.000	09:44
INTERNAL STANDARD	VERIFIED	09:44
Xq = 0.091 (0.29%)		
EXTERNAL STANDARD	0.078	09:44
X[1] = 0.0786 (-0.0019) (0.0015)		
BLANK TEST	0.000	09:45
SUBJECT SAMPLE	INTERFERENCE	09:45
X[1] = 0.1145 (-0.0219) (0.0010)		



SUBJECT TEST

Alaska Department of Public Safety
 DATASTRM dwt: 100413

Date: 01/09/2013
 Time: 10:06:22

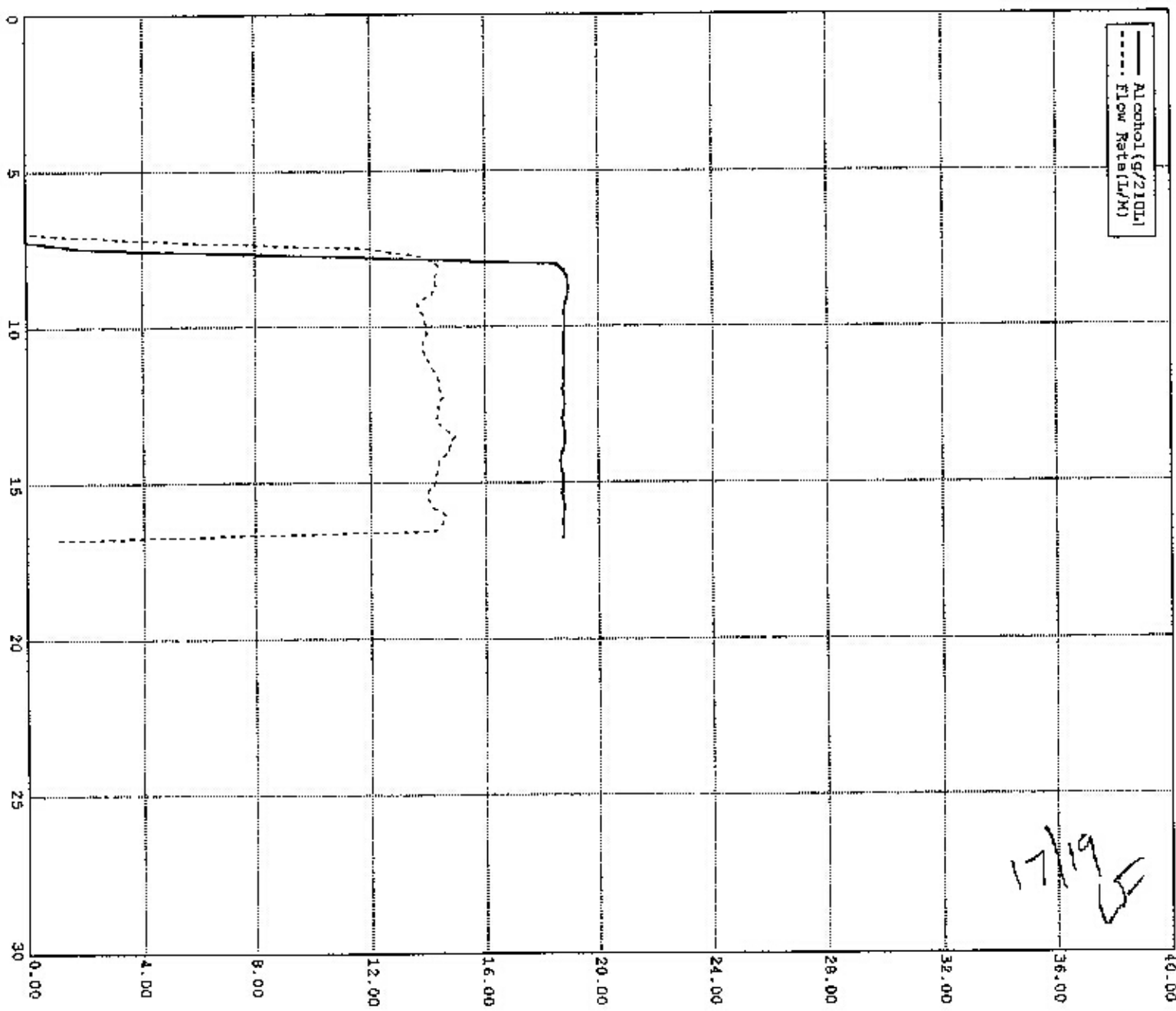
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 02013080AL
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:07
INTERNAL STANDARD	0.000	10:07
INTERNAL STANDARD	VERIFIED	10:07
Xq = 0.090 (0.29%)		
EXTERNAL STANDARD	0.078	10:07
X[1] = 0.0794 (-0.0008)	(0.0024)	
BLANK TEST	0.000	10:08
SUBJECT SAMPLE (Vol=2.21L)	0.094	10:09
X[1] = 0.0942 (-0.0015)	(0.0008)	
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.078	10:10
X[1] = 0.0785 (-0.0010)	(0.0018)	
BLANK TEST	0.000	10:11



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100413

Date: 01/09/2013
 Time: 10:35:07

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

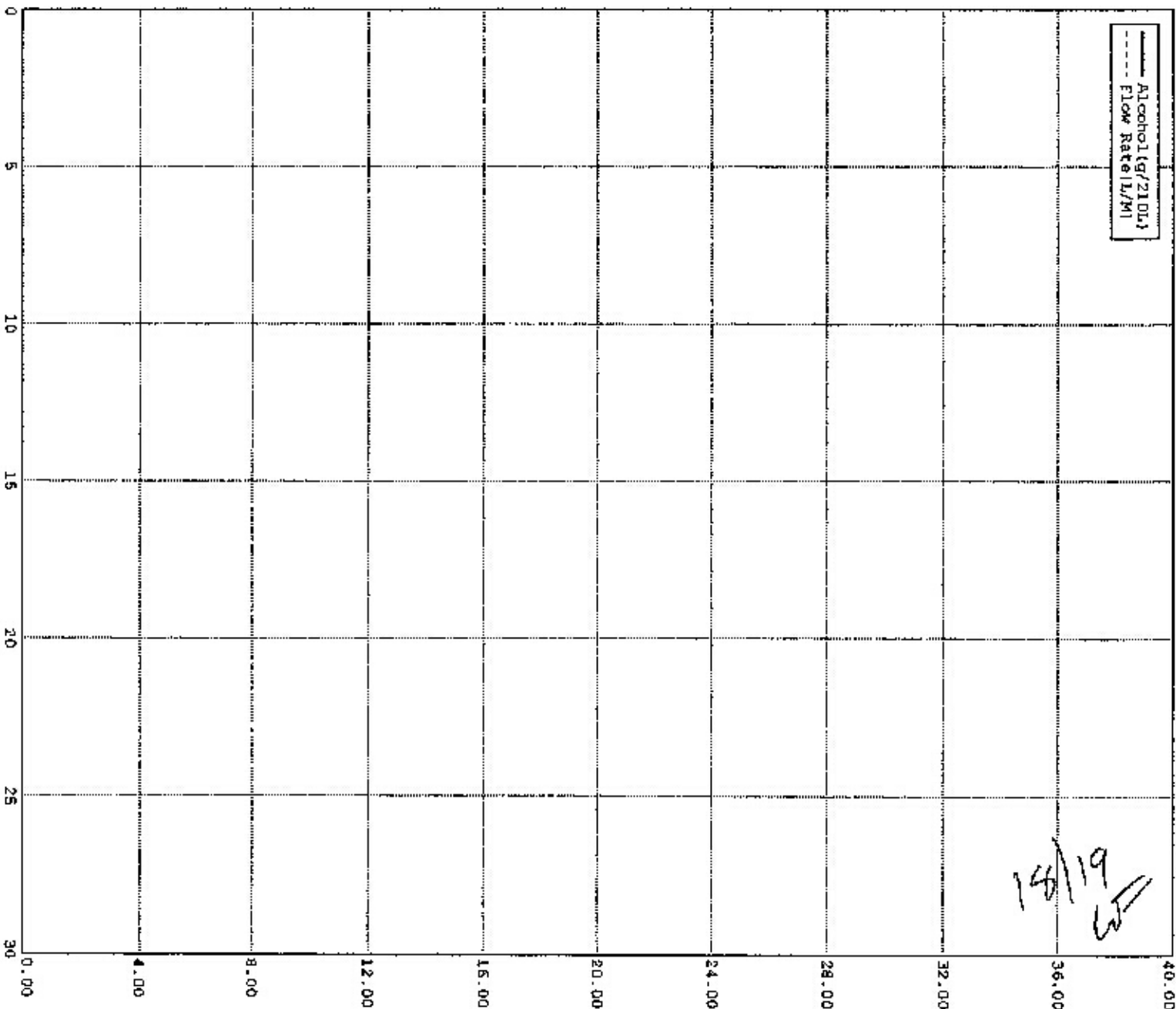
OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:36
BLANK TEST	0.080	10:36
INTERNAL STANDARD	VERIFIED	10:36
EXTERNAL STANDARD	0.079	10:36
BLANK TEST	0.080	10:37

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100413

Date: 01/09/2013
 Time: 10:53:36

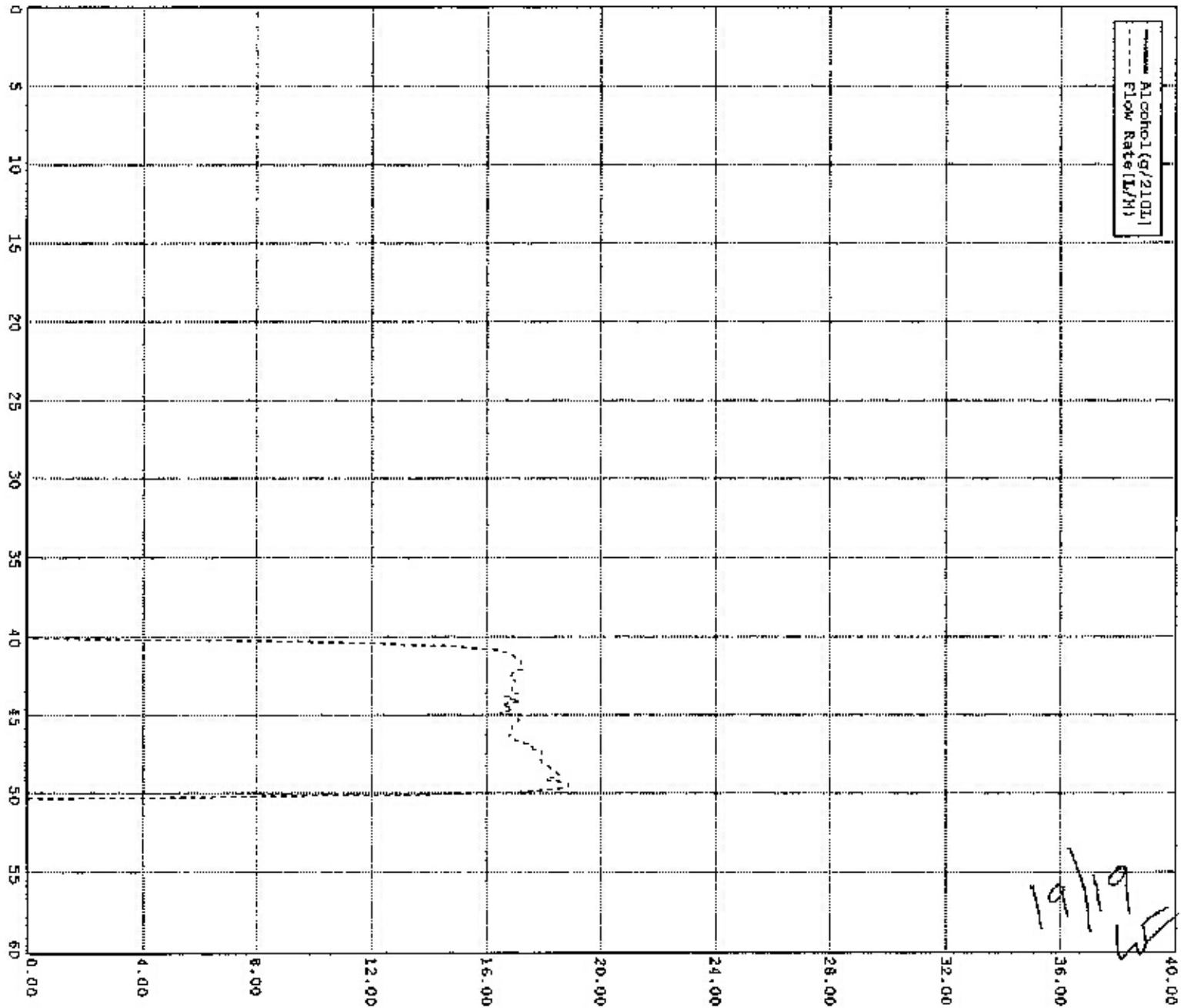
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	11:06
INTERNAL STANDARD	0.078	11:06
EXTERNAL STANDARD	0.000	11:07
BLANK TEST	0.000	11:08
SUBJECT SAMPLE	0.000	11:09
BLANK TEST	0.078	11:09
EXTERNAL STANDARD	0.000	11:10



Final page for report

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2/18/2014