

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100696 Analyst CFE 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 1600 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 07611100A3 Exp 3/1/13v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/131. Simulator S/N DR4162 Date Calibrated 10/9/12vi. 0.300g/210L Mnf Guth Lot 12050 Exp 3/21/141. 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 7/6/131. Simulator S/N DR5298 Date Calibrated 10/8/12ii. Isopropanol - Mnf Guth Lot 11250 Level 0.10 Exp 12/6/131. Simulator S/N SD1202 Date Calibrated 10/9/12iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N SD1176 Date Calibrated 10/9/12d. 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 1/19End Date 1/9/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 01/08/2013
Time: 12:30:44

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 47.6°C PASSED

PUMP INFO

Flow Rate = 4.425 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
CRF

Technician Screen

DATAMASTER dmt: 100696

Date: 01/08/2013
Time: 12:29 PM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 47.7°C

Current Barometer 29.4 in
Volume (Ltr) 1.45

Settings
Lamp: 1.77 V
Bias: 81 V
Cooler: 1.80 V
Chopper: 533 Hz

Voltages (V)
Flow: 1.05 V
Detector: 0.036 V

3/19
CNE

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100696

Date: 11/01/2011
Time: 10:33:58

Ca = 0.1000
CAL = 1.013410 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0025 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.1047 0.0500 <= Xq < 0.2000
a21 = 1.181861 1.050 <= a21 < 1.300
a31 = 0.476732 0.300 <= a31 < 0.800

4/19
CME

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmc: 100696

Date: 01/08/2013
 Time: 12:53:36

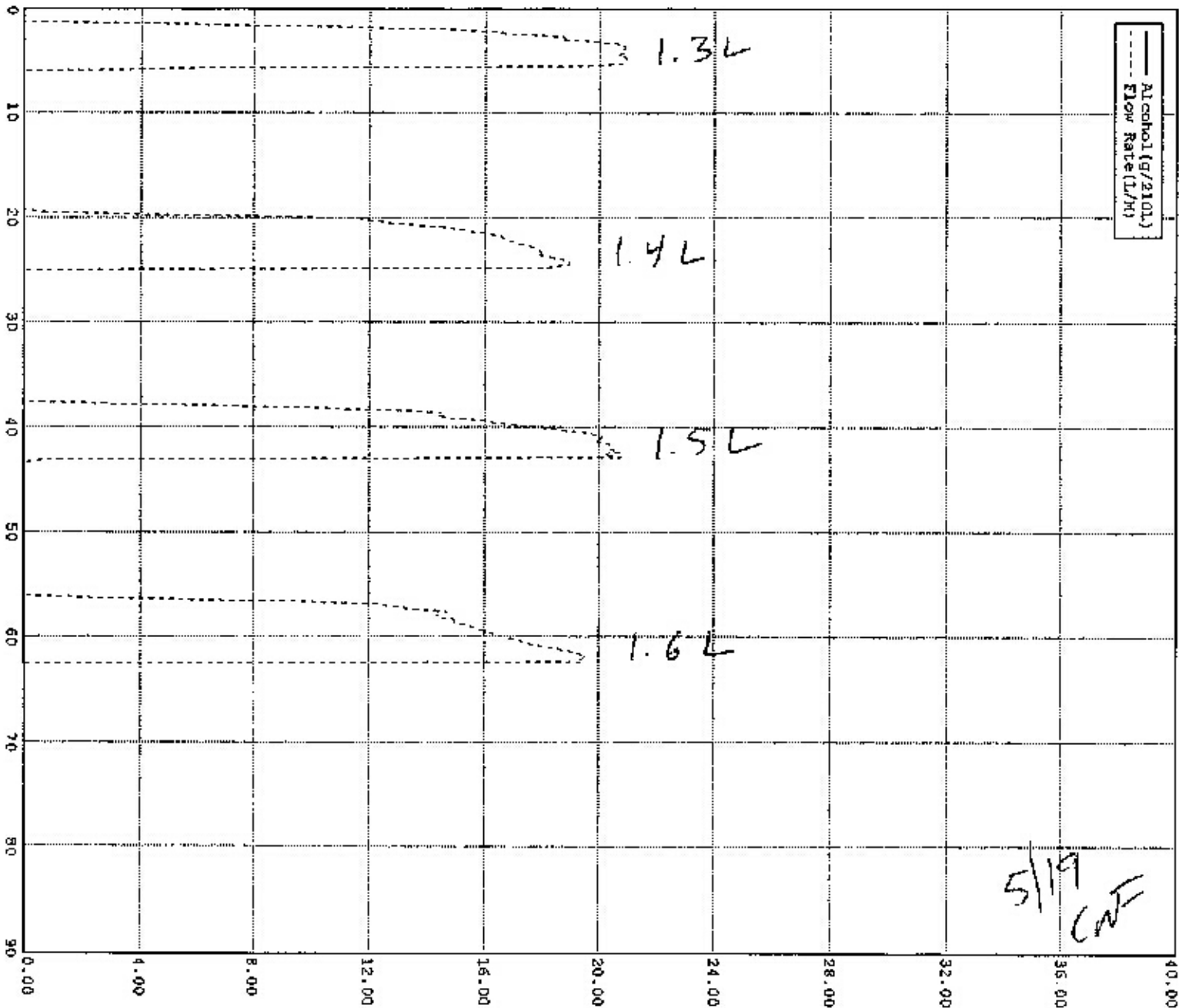
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.45: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	12:54
BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:54
EXTERNAL STANDARD	0.079	12:55
BLANK TEST	0.000	12:56
SUBJECT SAMPLE	0.000	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.080	12:58
BLANK TEST	0.000	12:59



LINEARITY CHECK

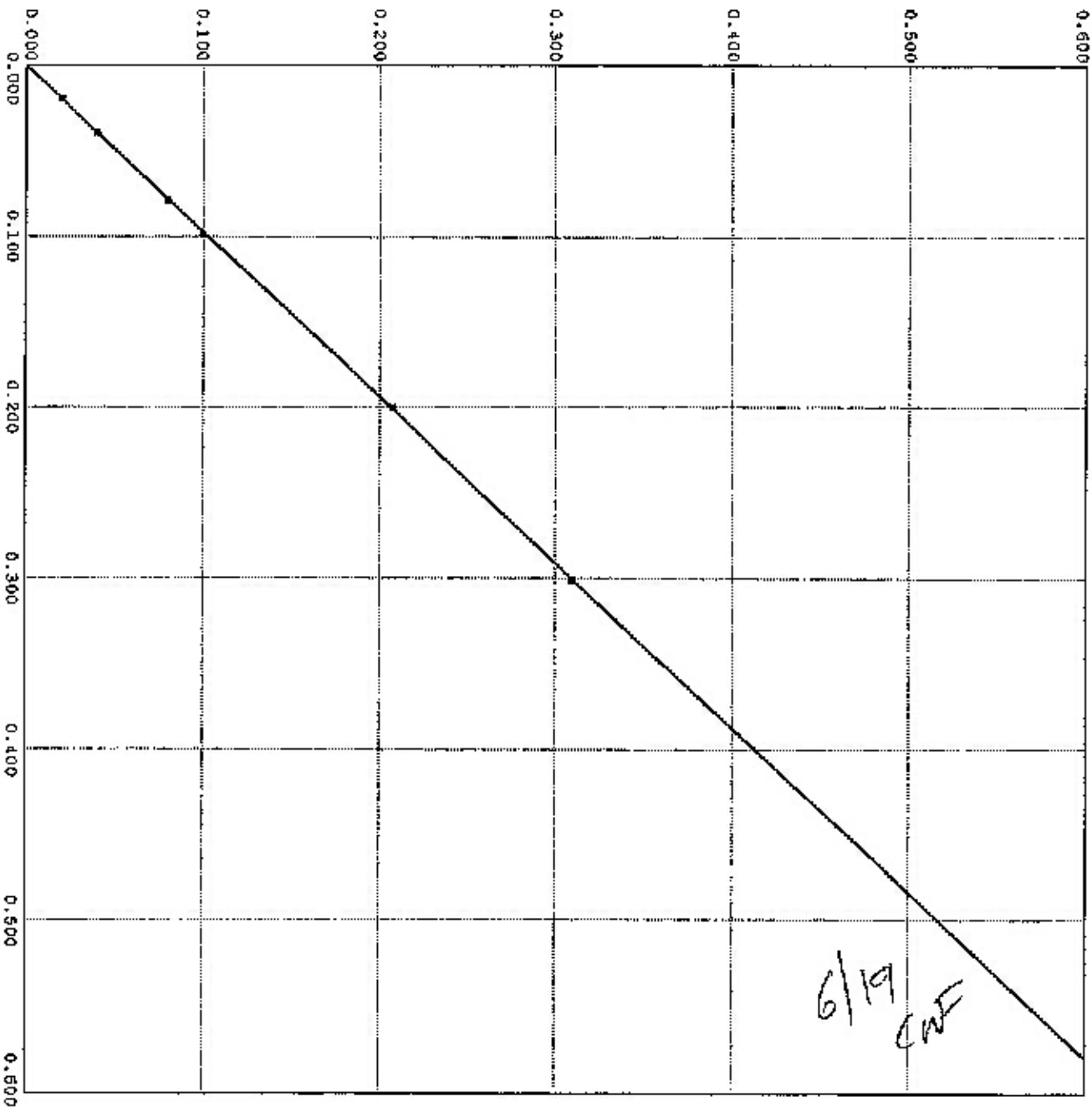
Alaska Department of Public Safety
 DATAMASTER dmt: 100696

Date: 01/08/2013
 Time: 13:28:47

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0209	0.0004
0.039	0.0410	0.0003
0.078	0.0811	0.0003
0.098	0.1004	0.0001
0.200	0.2083	0.0002
0.300	0.3105	0.0005

SLOPE = 1.034136
 R² = 0.999941



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100696

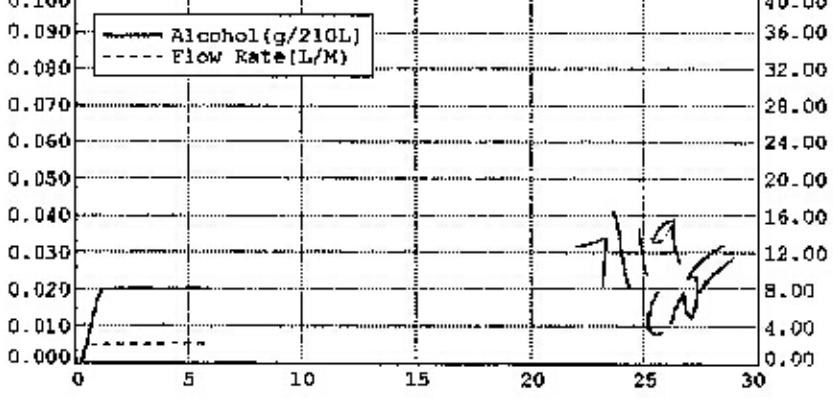
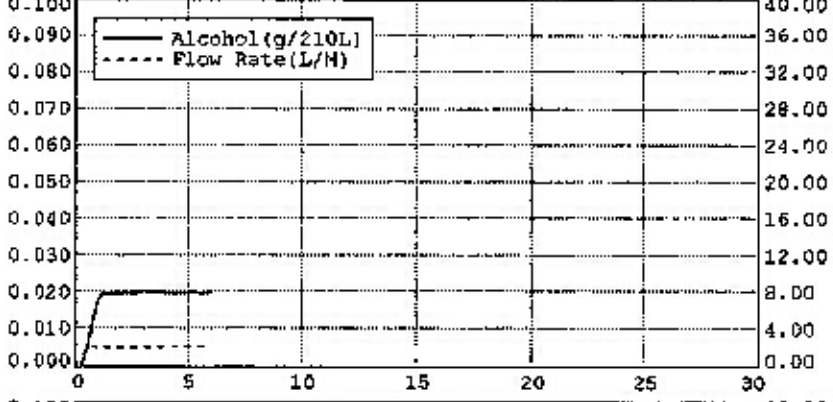
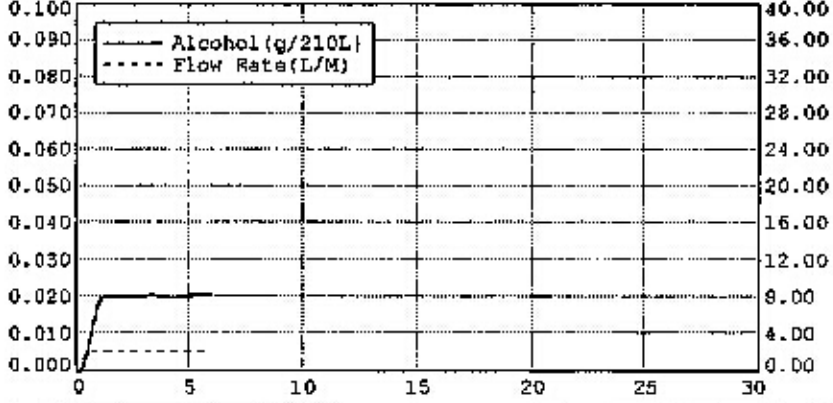
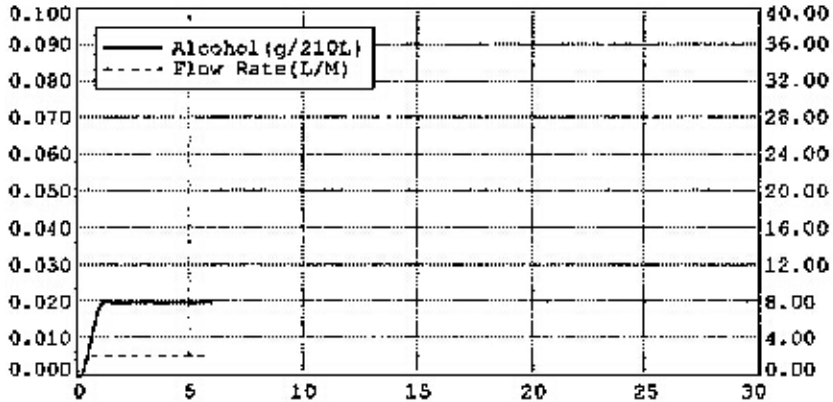
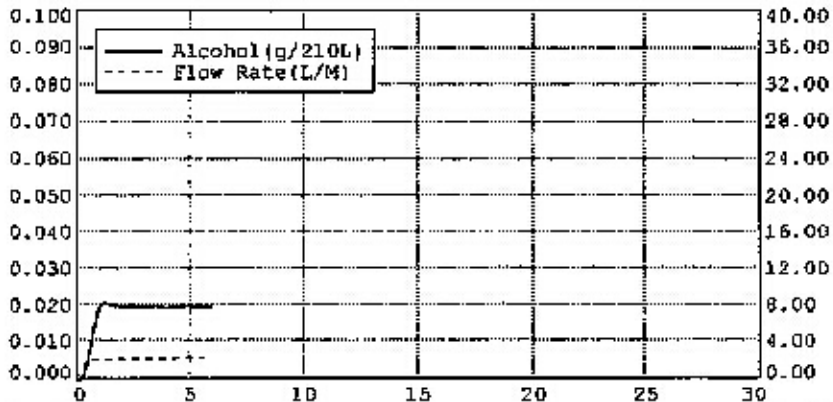
Date: 01/08/2013
 Time: 13:28:47

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:30
INTERNAL STANDARD	VERIFIED	13:30
EXTERNAL STANDARD	0.020	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.020	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.021	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.020	13:34
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.021	13:35
BLANK TEST	0.000	13:36

Average = 0.0209
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100696

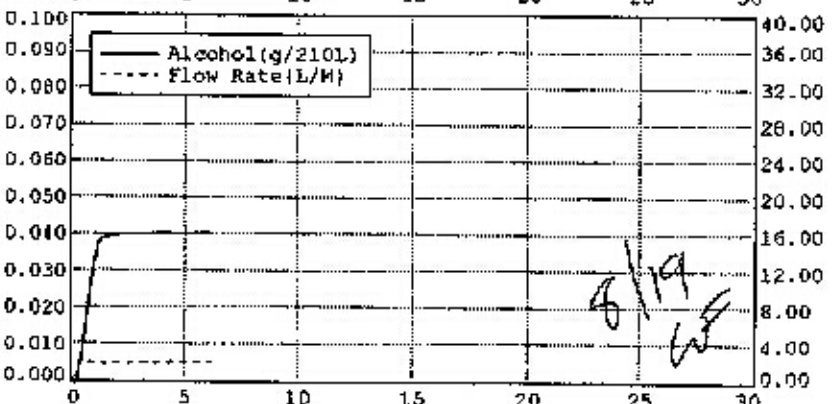
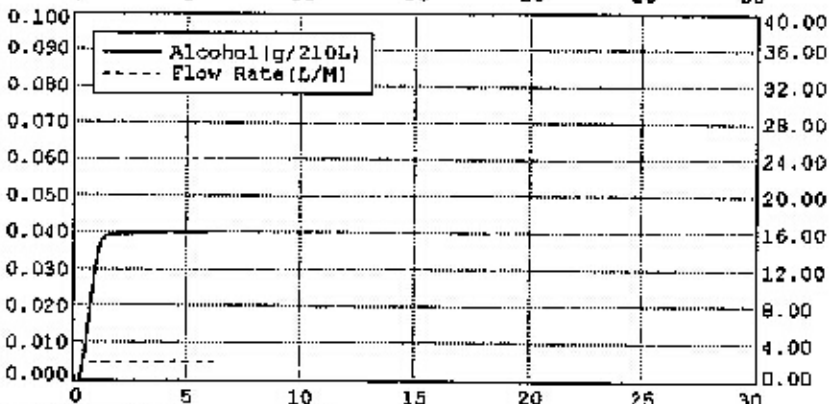
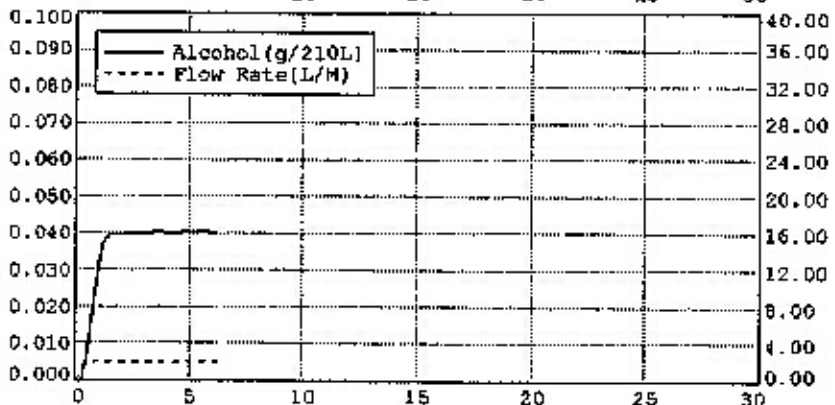
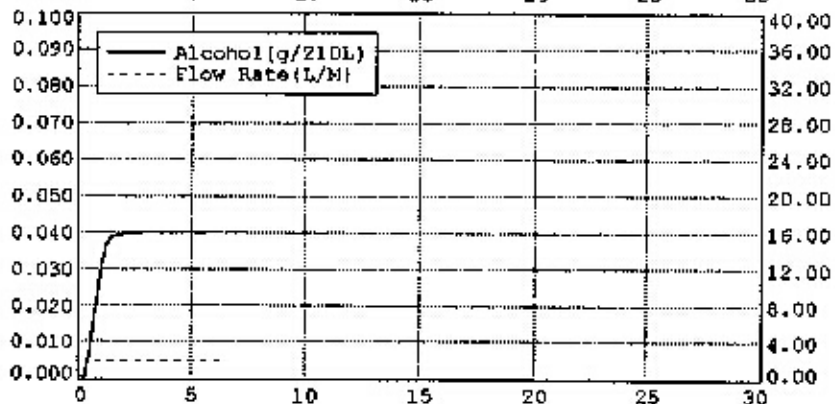
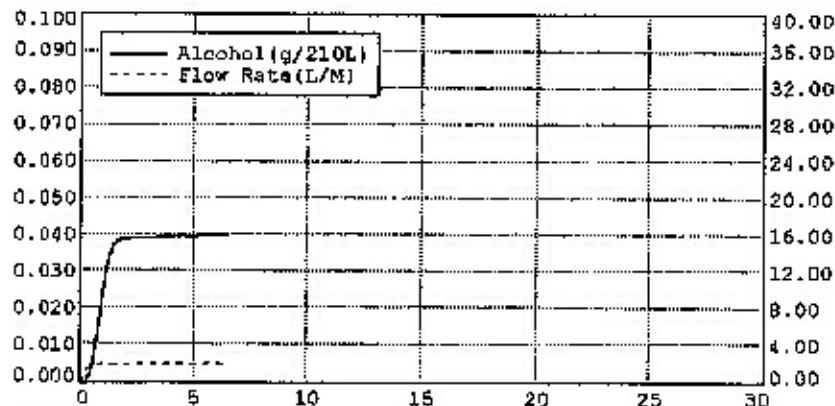
Date: 01/08/2013
 Time: 13:36:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.45: 0.039
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
EXTERNAL STANDARD	0.040	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.041	13:40
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.041	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.040	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.041	13:43
BLANK TEST	0.000	13:44

Average = 0.0410
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dnt: 100696

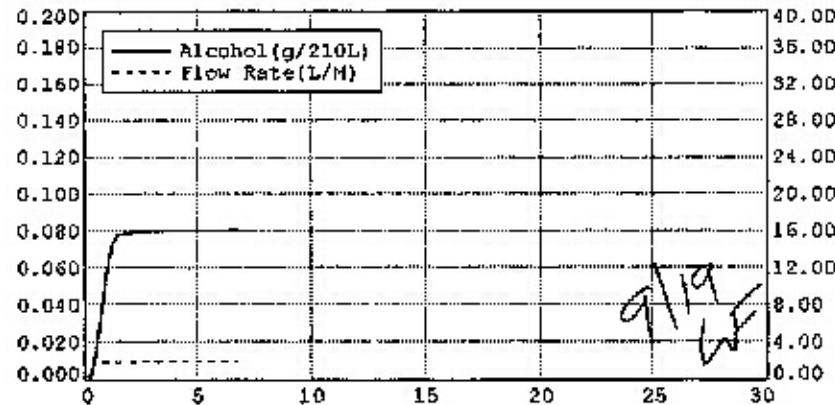
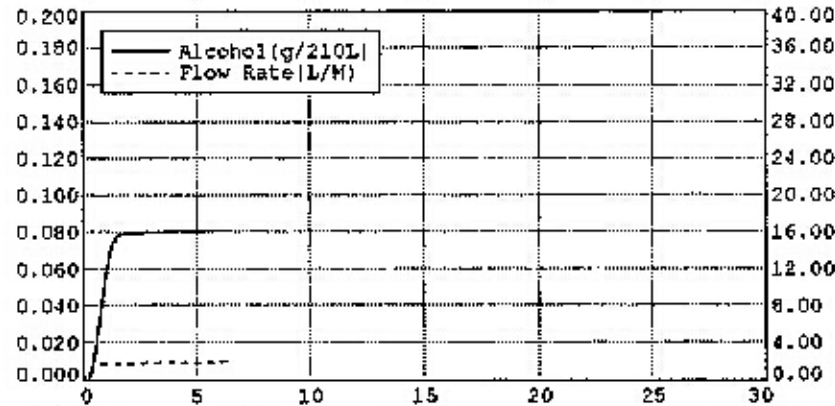
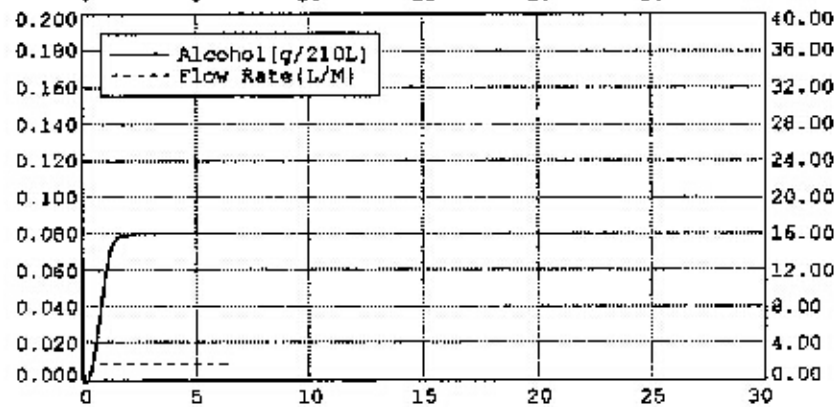
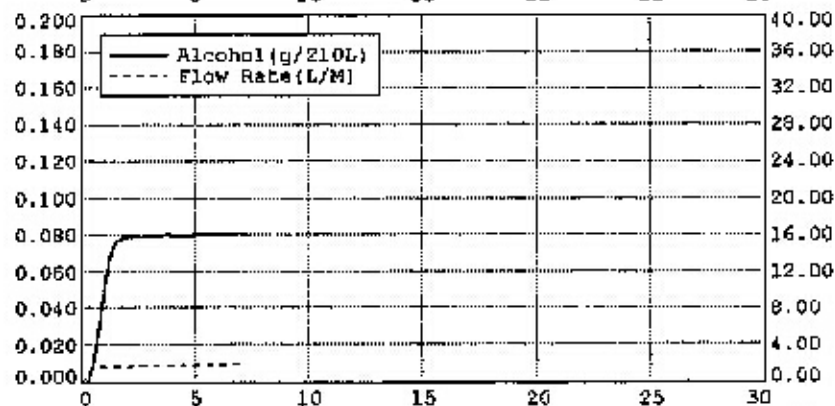
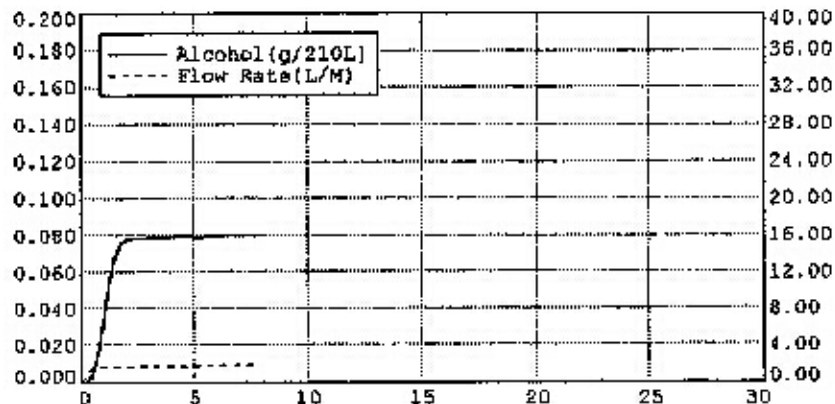
Date: 01/08/2013
Time: 13:46:15

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:48
EXTERNAL STANDARD	0.080	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.081	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.081	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.081	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.081	13:52
BLANK TEST	0.000	13:53

Average = 0.0811
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100696

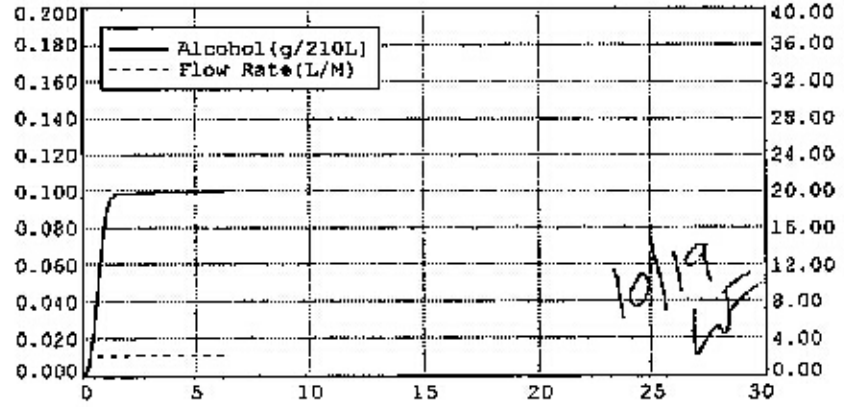
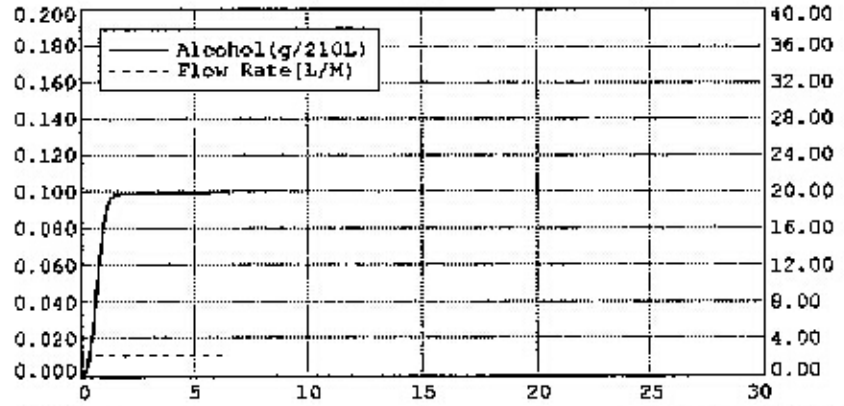
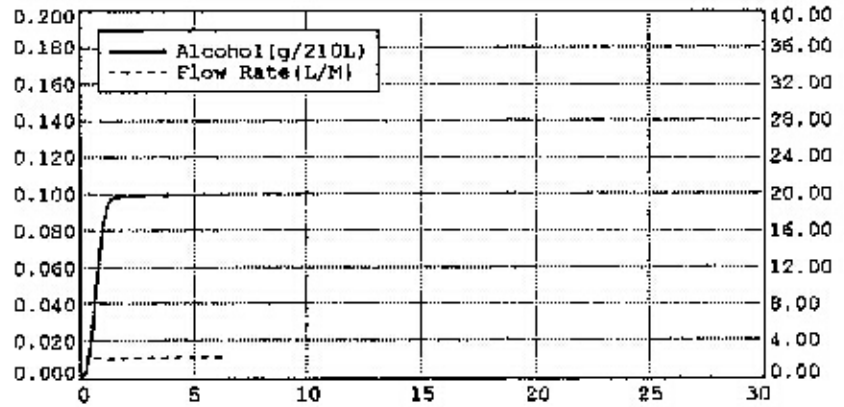
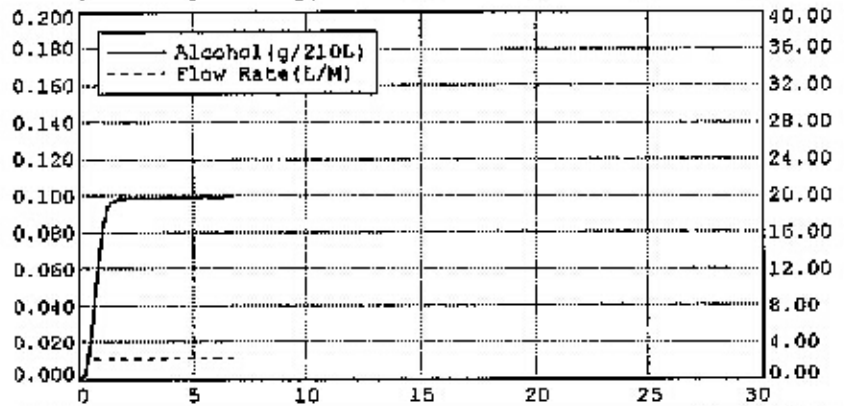
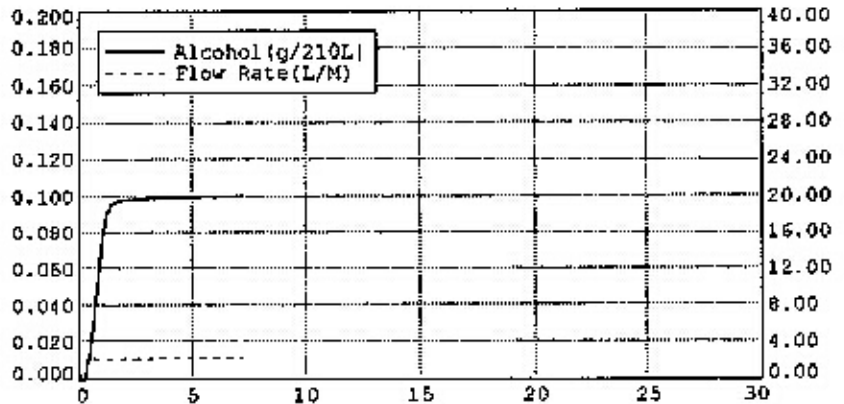
Date: 01/08/2013
 Time: 13:56:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.47: 0.098
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.100	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.100	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.100	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.100	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.100	14:02
BLANK TEST	0.000	14:03

Average = 0.1004
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100696

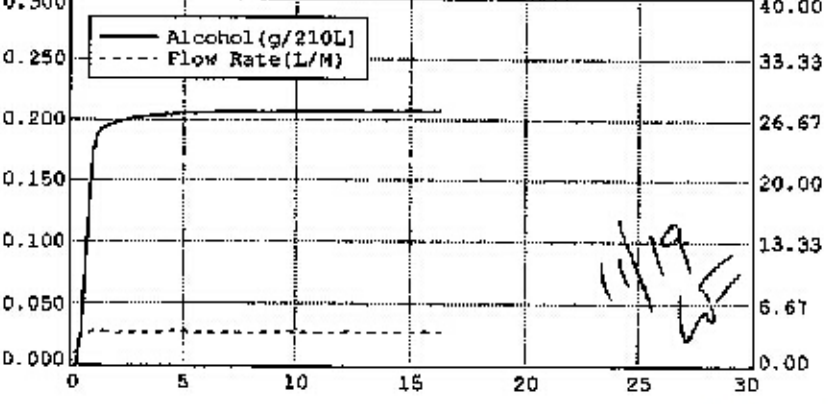
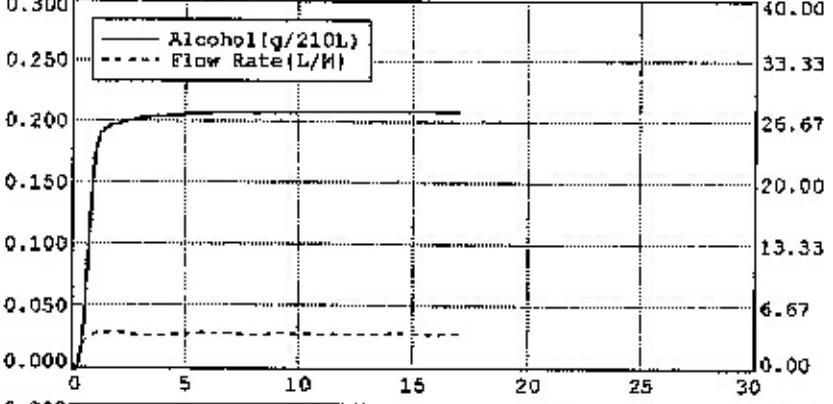
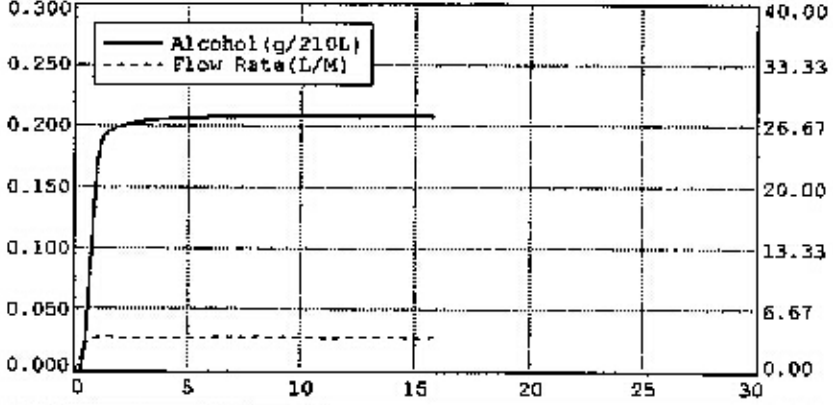
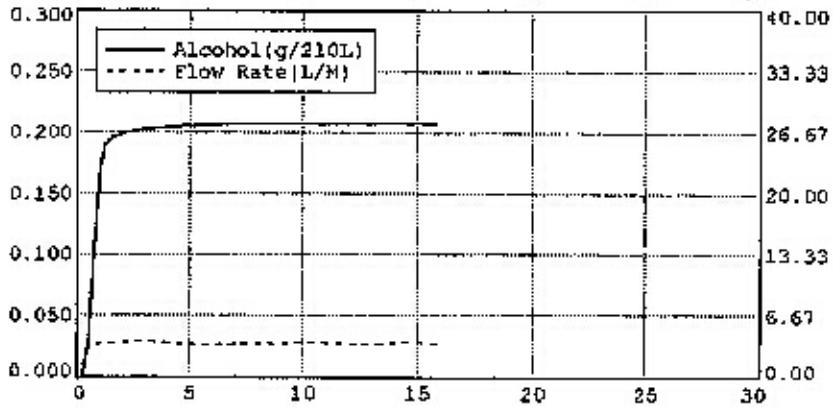
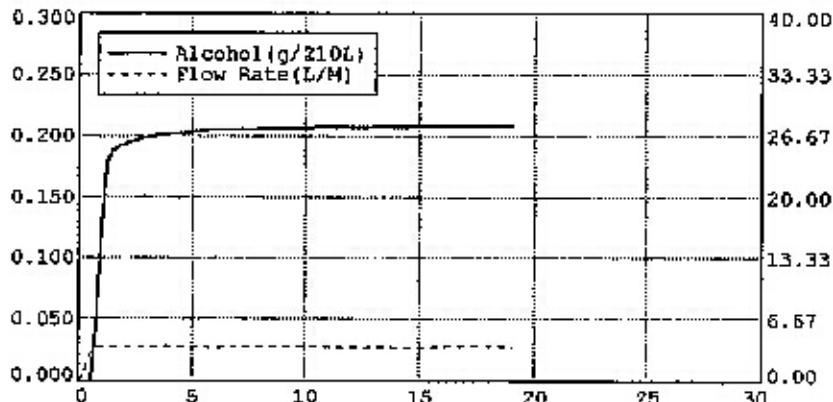
Date: 01/08/2013
 Time: 14:04:27

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:06
INTERNAL STANDARD	VERIFIED	14:06
EXTERNAL STANDARD	0.208	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.208	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.208	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.208	14:11
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.208	14:12
BLANK TEST	0.000	14:13

Average = 0.2083
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

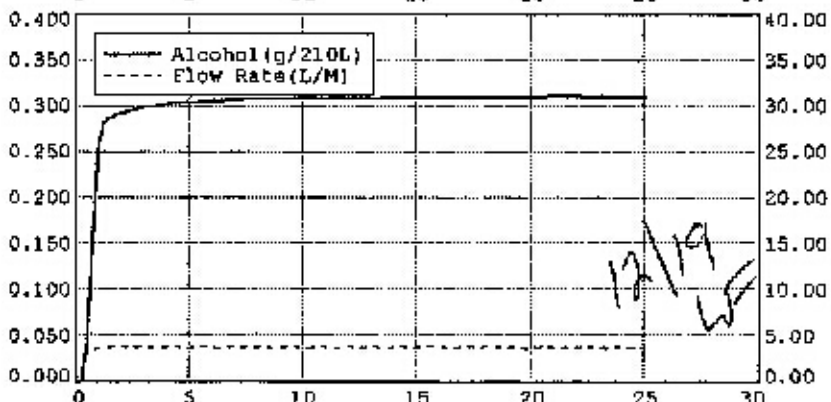
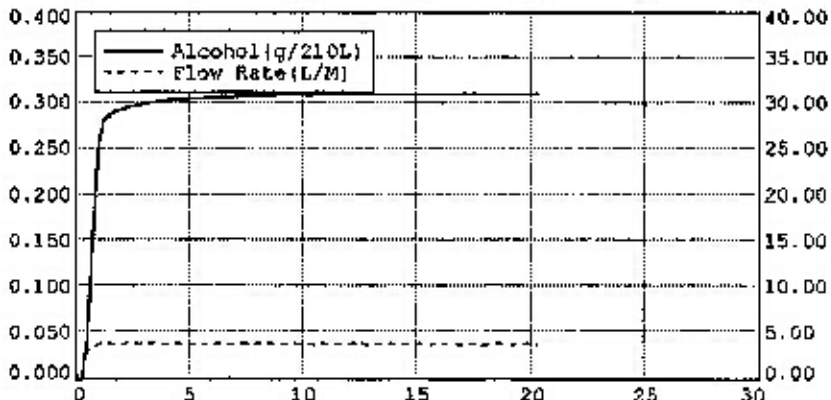
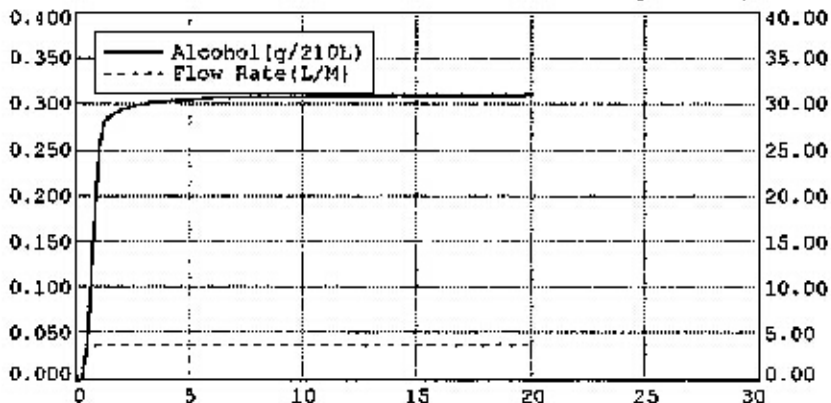
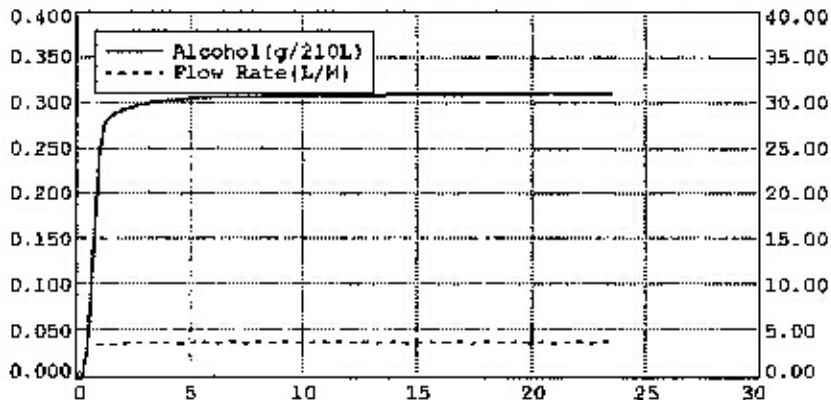
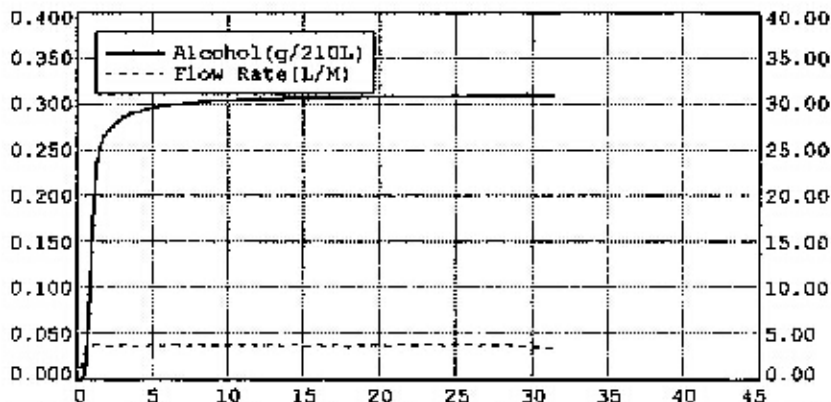
Alaska Department of Public Safety
 DAFMASTER dmt: 100696

Date: 01/09/2013
 Time: 14:15:36

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 12050
 EXPIRATION: 03/21/2014

BLANK TEST	0.000	14:16
INTERNAL STANDARD	VERIFIED	14:16
EXTERNAL STANDARD	0.310	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.310	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.310	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.310	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.311	14:23
BLANK TEST	0.000	14:24

Average = 0.3106
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmc: 100696

Date: 01/08/2013
 Time: 15:02:53

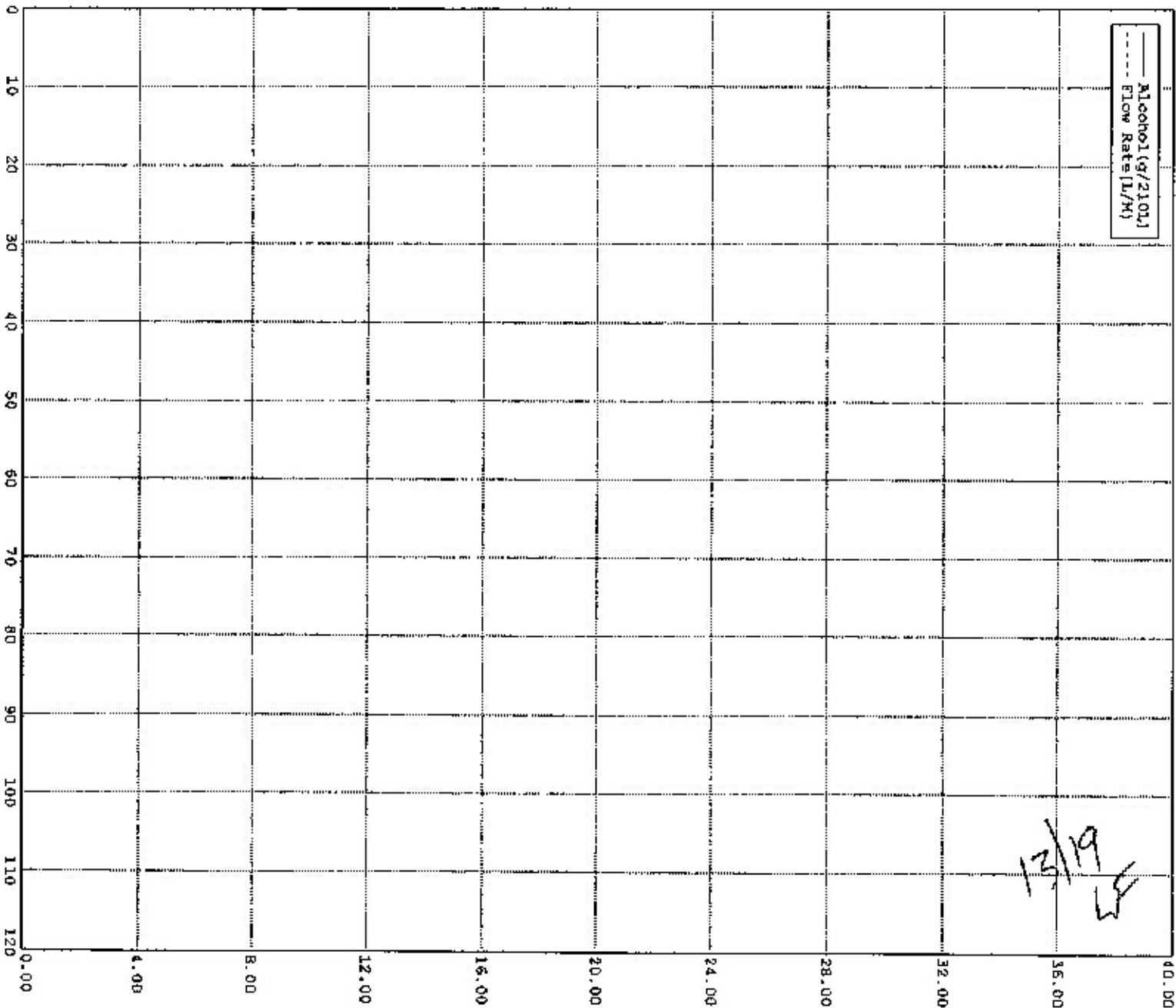
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.50: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

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



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmr: 100696

Date: 01/09/2013
 Time: 09:21:13

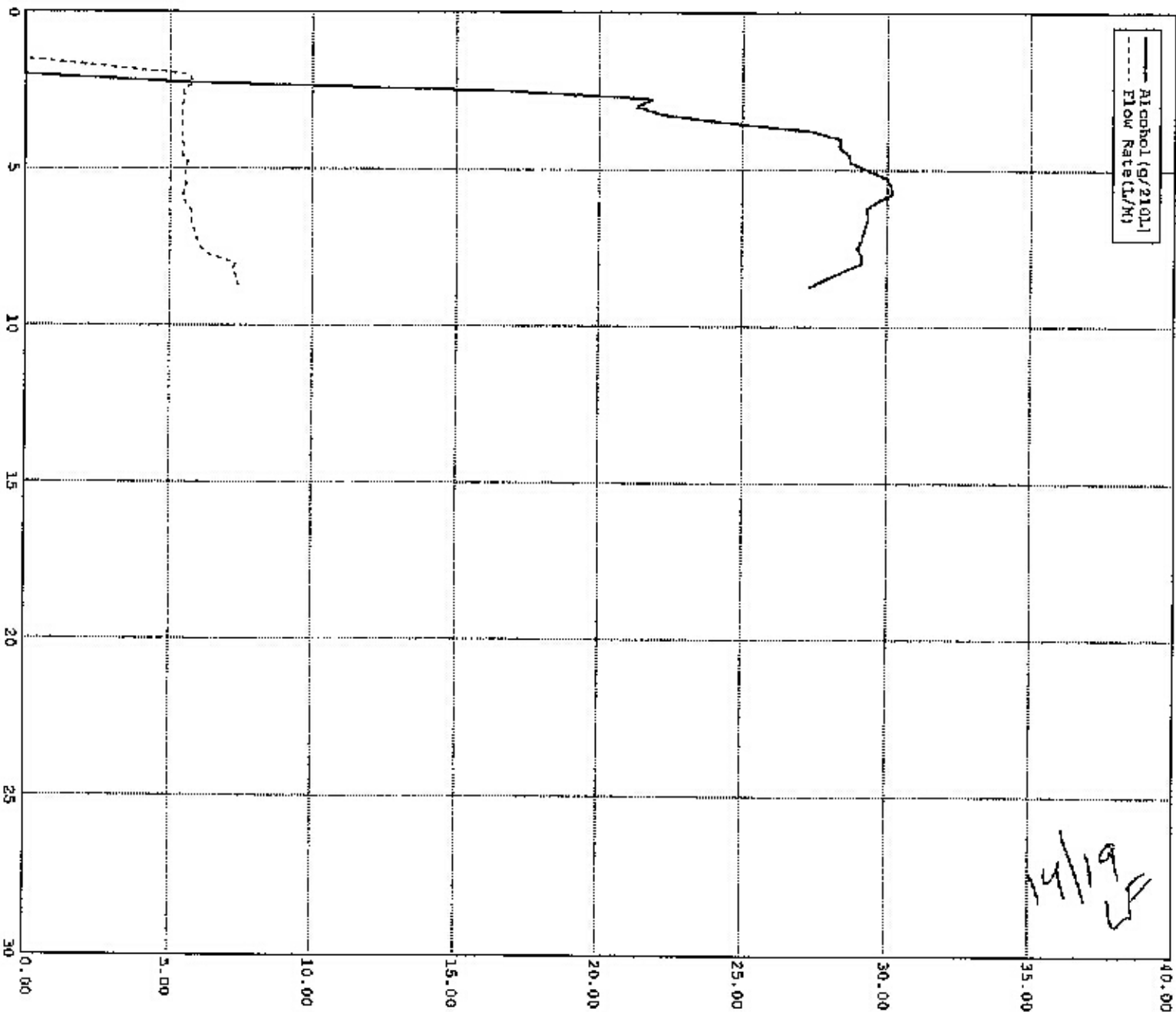
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET RT 29.78: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:25
BLANK TEST	0.000	09:25
INTERNAL STANDARD	VERIFIED	09:25
EXTERNAL STANDARD	0.081	09:25
BLANK TEST	0.000	09:26
SUBJECT SAMPLE	INVALID	09:26



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100896

Date: 01/09/2013
 Time: 09:34:08

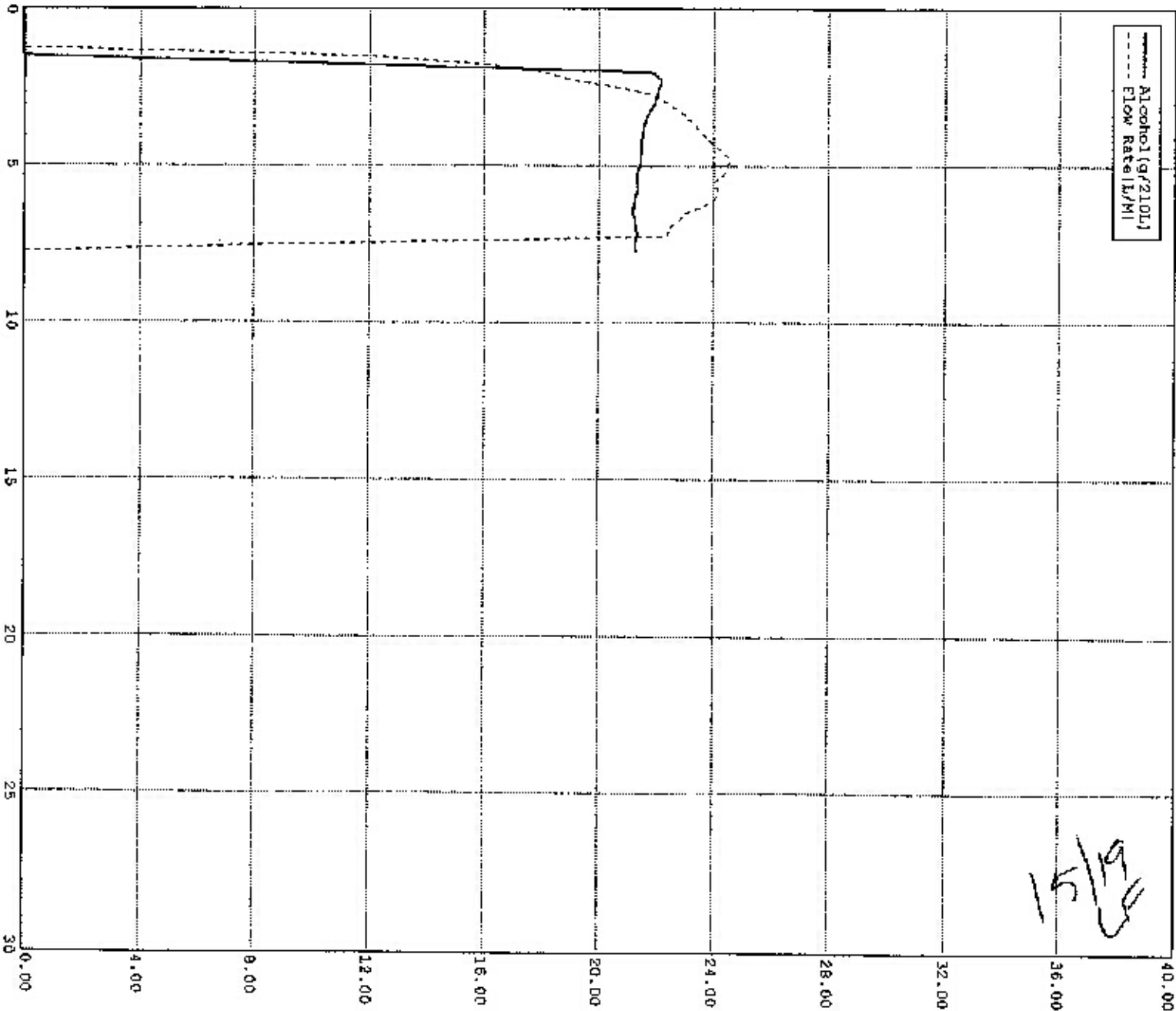
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE ETOH AND ACETONE
 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	09:36
BLANK TEST	0.000	09:36
INTERNAL STANDARD	VERIFIED	09:37
K1 = 0.104 (0.84%)		
EXTERNAL STANDARD	0.080	09:37
X[1] = 0.0808 (0.0001)	(0.0013)	
BLANK TEST	0.000	09:38
SUBJECT SAMPLE	INTERFERENCE	09:38
X[1] = 0.1069 (-0.0180)	(0.0000)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100696

Date: 01/09/2013
 Time: 09:42:22

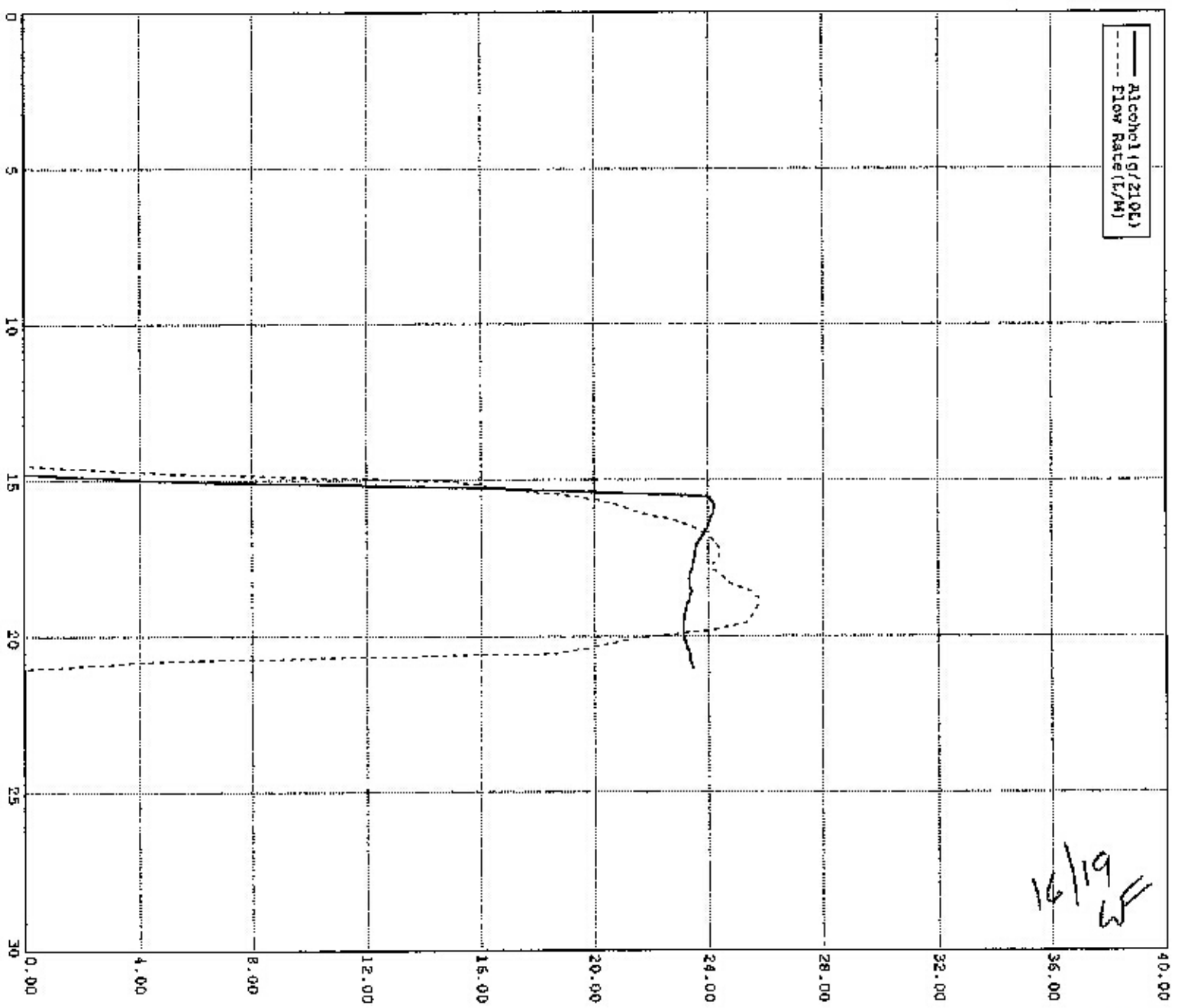
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.79: 0.079
 LOT #: 02012090A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:45
BLANK TEST	0.000	09:55
INTERNAL STANDARD	VERIFIED	09:45
Xq = 0.105 (0.08%)		
EXTERNAL STANDARD	0.081	09:45
X[1] = 0.0816 (0.0010)	0.0015	
BLANK TEST	0.000	09:46
SUBJECT SAMPLE	INTERFERENCE	09:47
X[1] = 0.1173 (-0.0280)	(-0.0001)	



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dttc: 100696

Date: 01/09/2013
 Time: 10:07:30

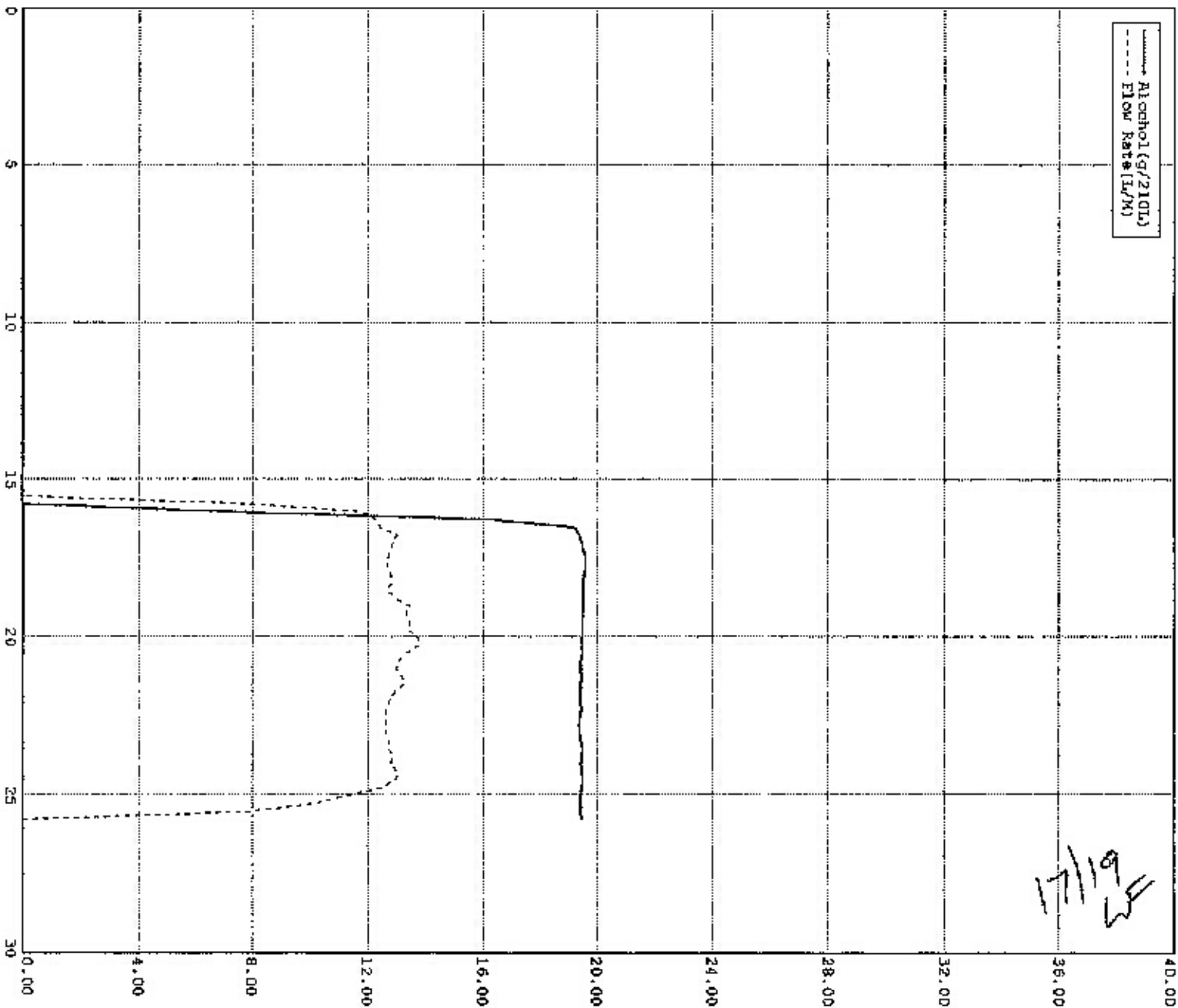
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE FROM 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 #: 02012080X1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:10
BLANK TEST	0.000	10:10
INTERNAL STANDARD	VERIFIED	10:10
XQ = 0.105 (0.17%)		
EXTERNAL STANDARD	0.081	10:10
X[1] = 0.0812 (0.0013)	0.000	10:11
BLANK TEST	0.000	10:12
SUBJECT SAMPLE (Vol=2.10L)	0.098	10:12
X[1] = 0.0981 (-0.0022)	0.000	10:13
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.081	10:13
X[1] = 0.0812 (0.0009)	0.000	10:14
BLANK TEST	0.000	10:14



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100696

Date: 01/09/2013
 Time: 10:35:05

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

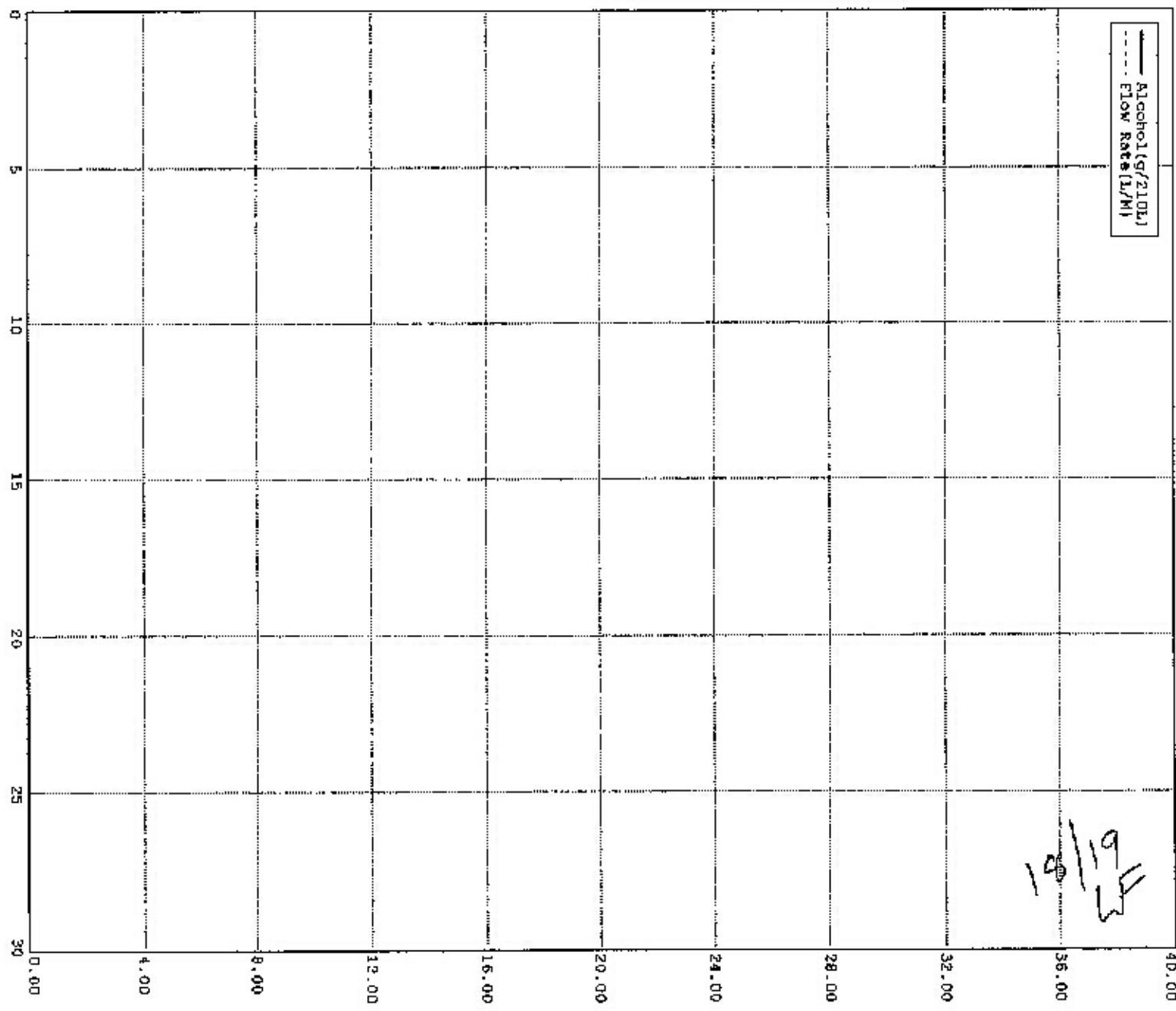
OPERATOR NAME:
 RTI XXXX
 OPERATOR'S #: XXXX

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	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:36
EXTERNAL STANDARD	0.081	10:37
BLANK TEST	0.000	10:37

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE dnt: 100696

Date: 01/09/2013
 Time: 10:54:29

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

DEPT/AGENCY:

XXXX

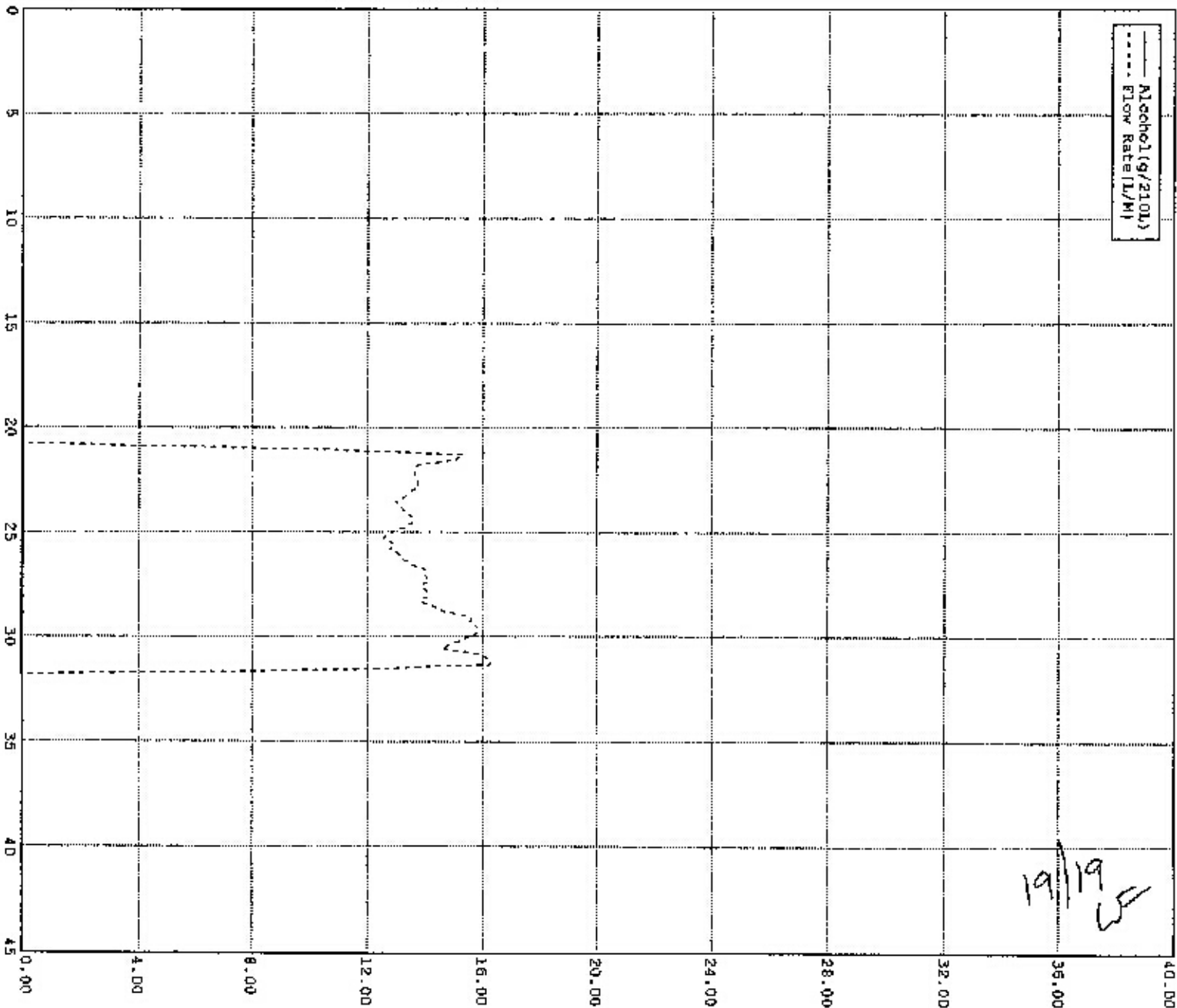
CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK	PASSED	11:06
BLANK TEST	0.000	11:06
INTERNAL STANDARD	VERIFIED	11:07
EXTERNAL STANDARD	0.081	11:07
BLANK TEST	0.000	11:08
SUBJECT SAMPLE	0.000	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.081	11:09
BLANK TEST	0.000	11:10



Final page for report

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2/13/2014