

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 6/11/2014
Effective: 6/11/2014

Version: DMCEF 2014 R0
Status: Active

Instrument S/N 100696 Analyst CTF Start Date 9/18/14

1. Diagnostic Test (attached) ☒
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp (2.6V Maximum)
 - ii. Bias
 - iii. Cooler (2.0V Maximum)
 - 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)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1.6 L (1.3L to 1.7L) ☒
5. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 00813020A1 Exp 3/1/15
- ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15
- iii. 0.080g/210L Mnf ILMO Lot 09214080A2 Exp 5/1/16
- iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15
- v. 0.200g/210L Mnf Guth Lot 14130 Exp 5/12/16
 1. Simulator S/N DR5298 Date Calibrated 2/19/14
- vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15
 1. Simulator S/N SD1177 Date Calibrated 2/20/14

6. Functional Tests (attached)

- a. Incomplete ☒
- b. Invalid ☒
- c. Interference ☒

- i. Acetone - Mnf Guth Lot 14030 Level 0.10 Exp 1/20/16
 1. Simulator S/N SD1198 Date Calibrated 2/20/14
- ii. Isopropanol - Mnf Guth Lot 14030 Level 0.10 Exp 1/20/16
 1. Simulator S/N SD1202 Date Calibrated 2/20/14
- iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 1. Simulator S/N DR4161 Date Calibrated 2/19/14

d. RFI ☒

7. Verify stylus is calibrated ☒
8. Reset Options ☒
9. Clear Memory ☒
10. Verification of Calibration ☒
11. Non-Drinking Subject Test (attached) ☒
12. Upload ☒

End Date 9/22/14

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 09/18/2014
Time: 15:48:07

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 45.7°C	PASSED

PUMP INFO

Flow Rate = 4.464 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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Technician Screen

DATAMASTER dnt: 100696

Date: 09/18/2014

Time: 3:47 PM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 45.8°C

Current Barometer 28.8 in

Volume (Ltr) 1.43

Settings

Lamp: 1.74 V

Bias: 80 V

Cooler: 1.90 V

Chopper: 529 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.084 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100696

Date: 01/27/2014
Time: 10:29:23

Ca	=	0.1010		
CAL	=	0.979708	0.800	<= CAL < 1.200
b1	=	0.0002	0.0000	<= b1 < 0.0040
b2	=	0.0065	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xg	=	0.1038	0.0500	<= Xg < 0.2000
a21	=	1.156569	1.050	<= a21 < 1.300
a31	=	0.469475	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100696

Date: 09/19/2014
 Time: 09:24:46

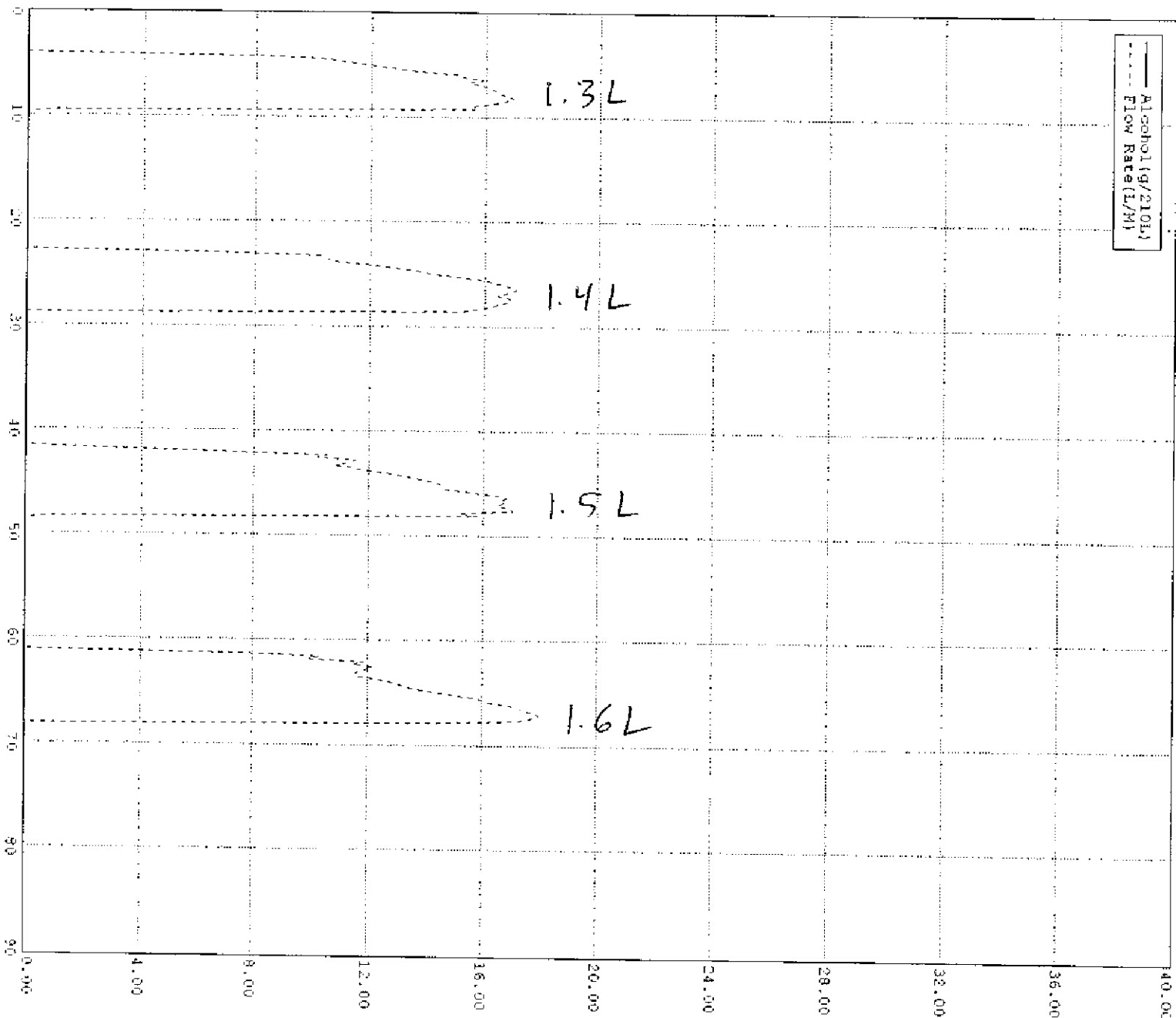
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.95: 0.077
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016

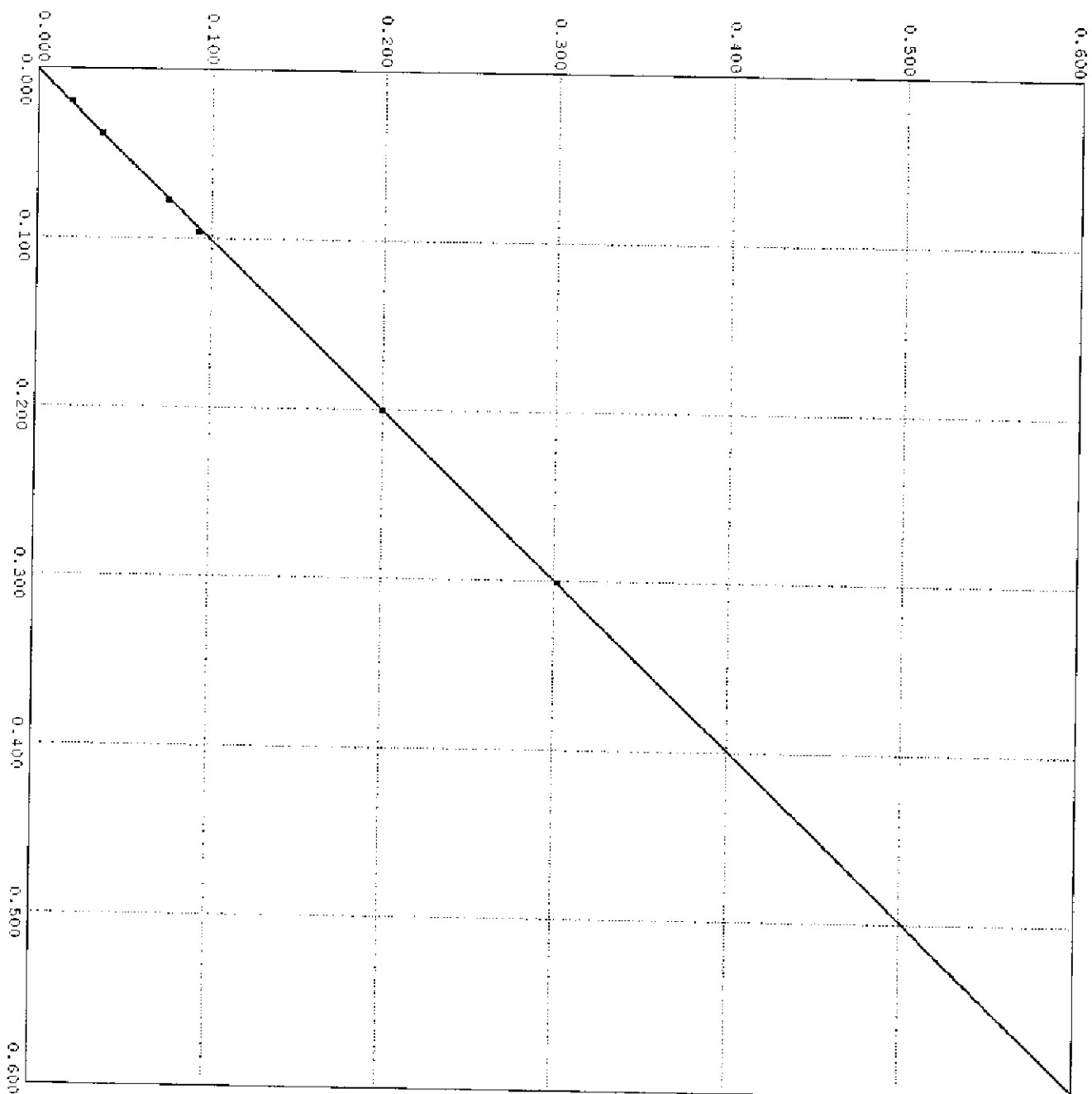
DIAGNOSTIC CHECK	PASSED	09:25
BLANK TEST	0.000	09:25
INTERNAL STANDARD	VERIFIED	09:26
EXTERNAL STANDARD	0.076	09:26
BLANK TEST	0.000	09:27
SUBJECT SAMPLE	0.000	09:28
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.076	09:29
BLANK TEST	0.000	09:30



LINEARITY CHECK

Alaska Department of Public Safety
DATA MASTER dmt: 100696Date: 09/19/2014
Time: 09:36:35SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0003
0.039	0.0382	0.0002
0.077	0.0761	0.0002
0.096	0.0939	0.0001
0.200	0.2007	0.0004
0.300	0.3026	0.0006

SLOPE = 1.008238
 R^2 = 0.999832

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100696

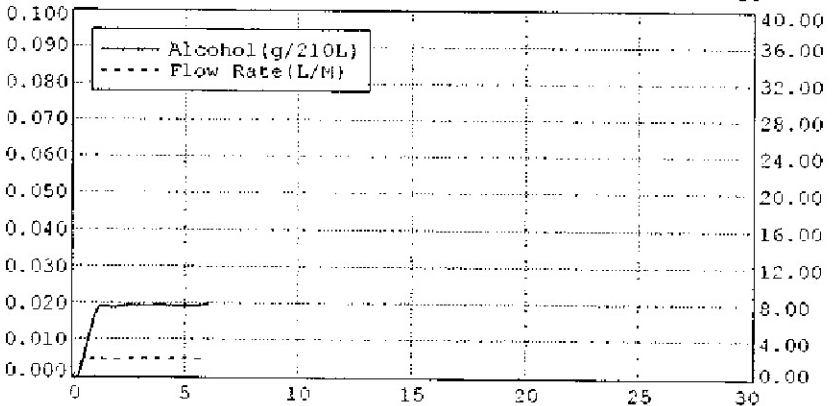
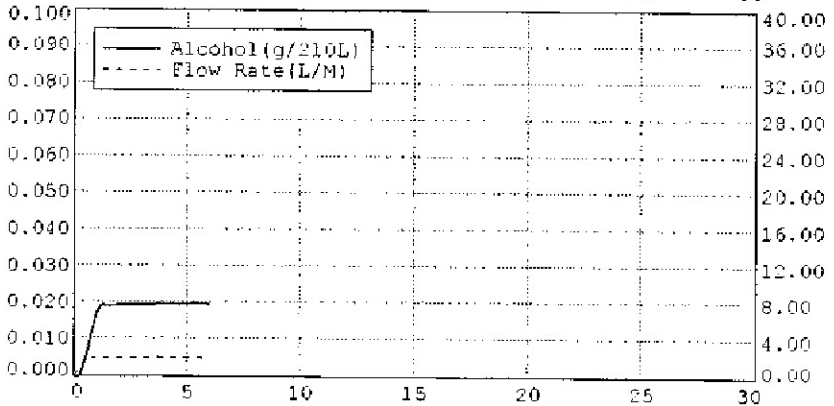
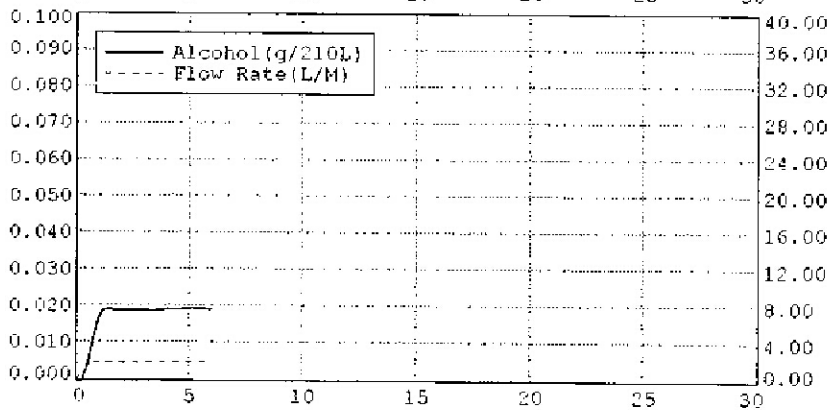
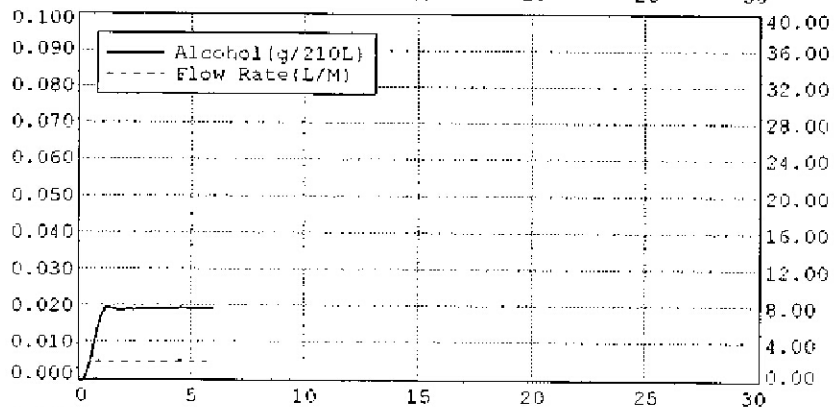
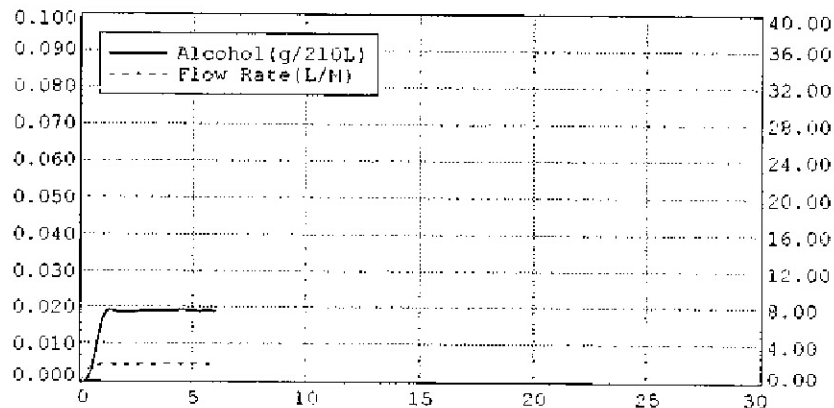
Date: 09/19/2014
Time: 09:36:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 28.96: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:11
INTERNAL STANDARD	VERIFIED	10:11
EXTERNAL STANDARD	0.020	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.020	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.020	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.020	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.020	10:16
BLANK TEST	0.000	10:16

Average = 0.0202
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100696

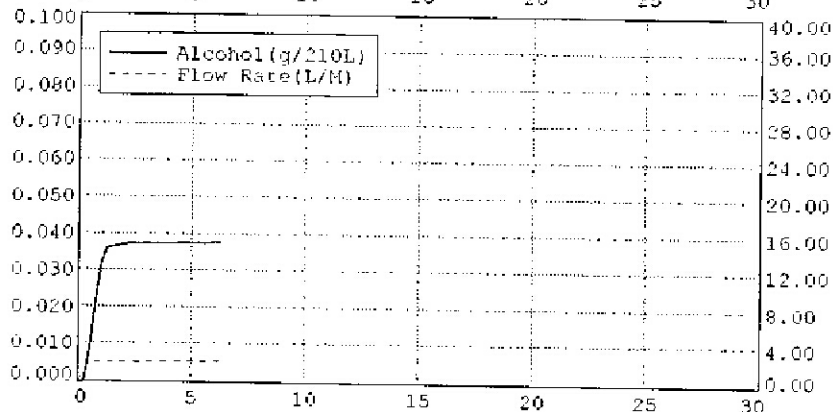
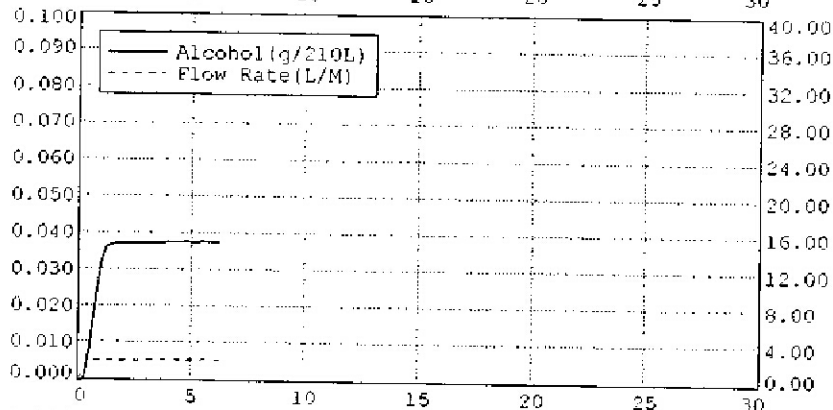
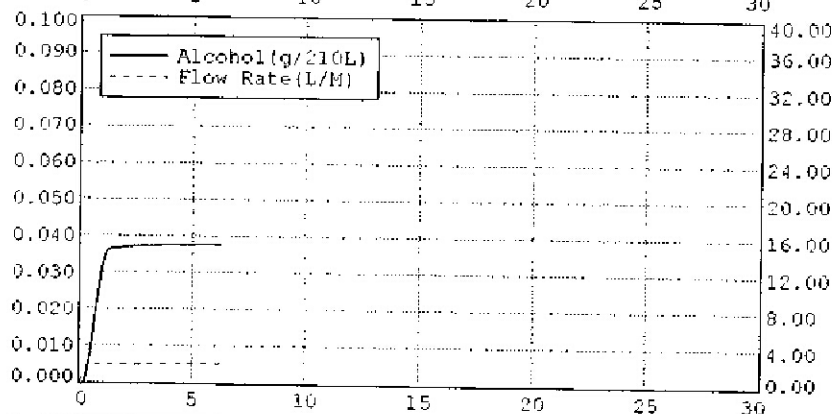
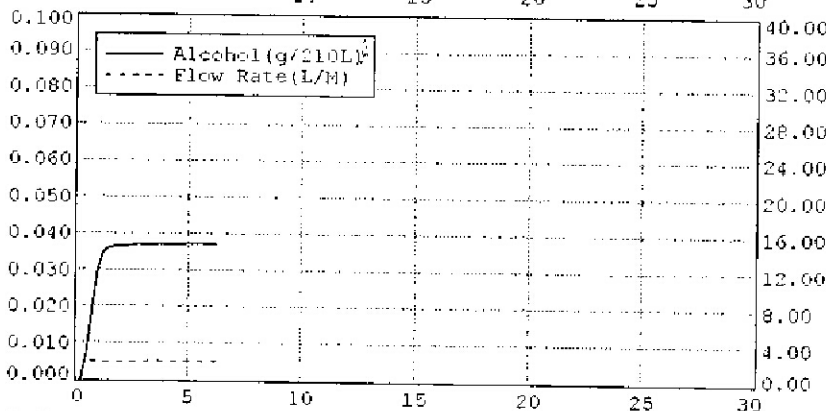
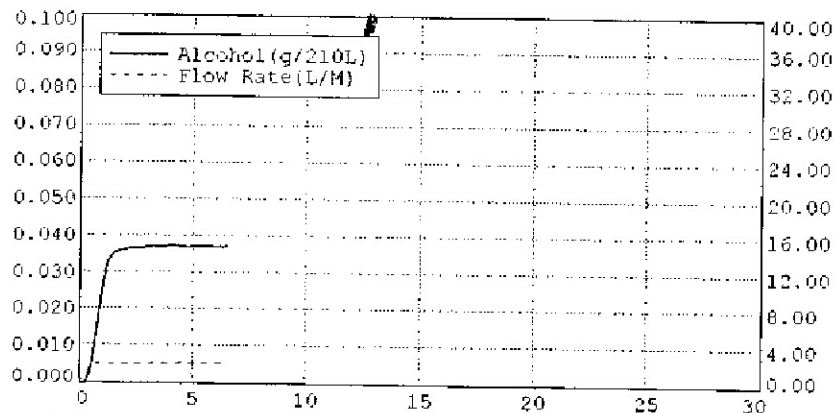
Date: 09/19/2014
Time: 10:19:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 28.96: 0.038
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:21
INTERNAL STANDARD	VERIFIED	10:21
EXTERNAL STANDARD	0.037	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.038	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.038	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.038	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.038	10:25
BLANK TEST	0.000	10:26

Average = 0.0382
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dnt: 100696

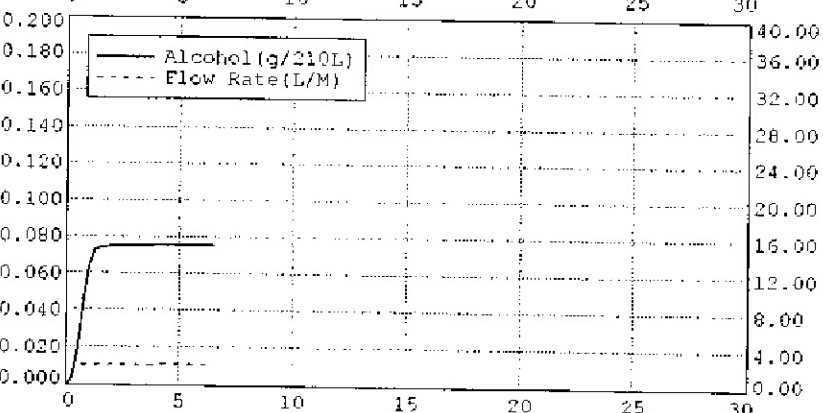
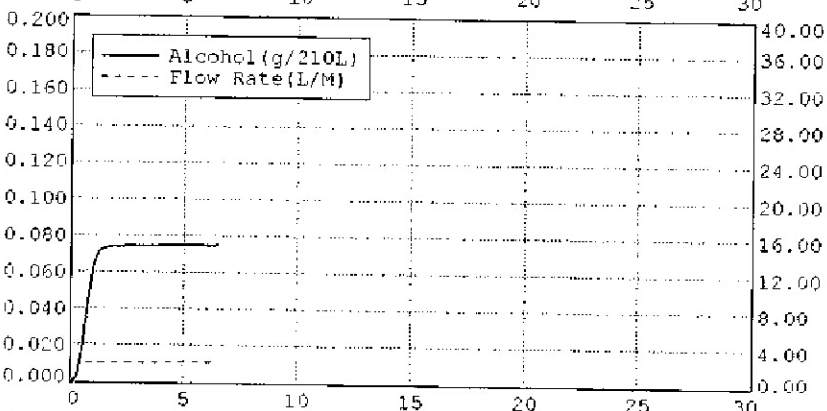
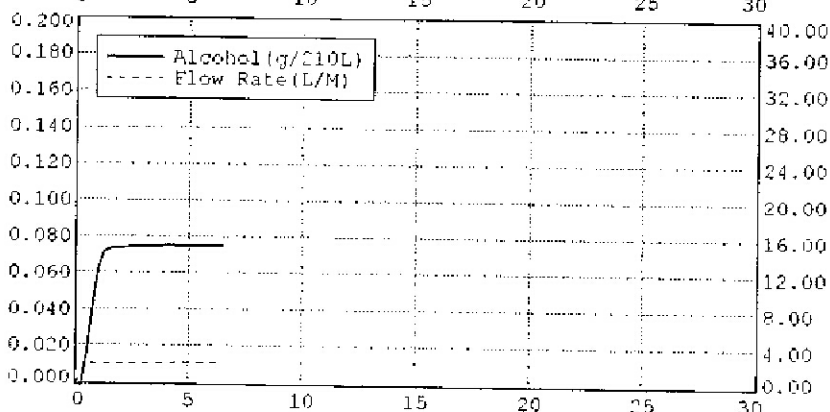
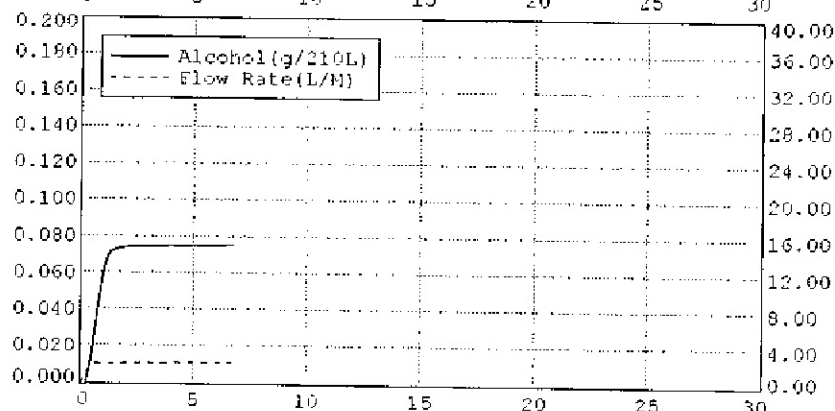
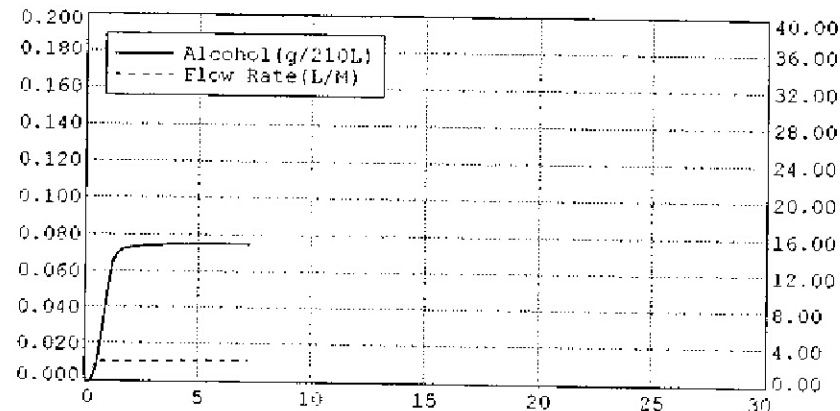
Date: 09/19/2014
Time: 10:29:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.97: 0.077
LOT #: 09214080A2
EXPIRATION: 05/01/2016

BLANK TEST	0.000	10:30
INTERNAL STANDARD	VERIFIED	10:30
EXTERNAL STANDARD	0.076	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.075	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.076	10:33
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.076	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.076	10:35
BLANK TEST	0.000	10:36

Average = 0.0761
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

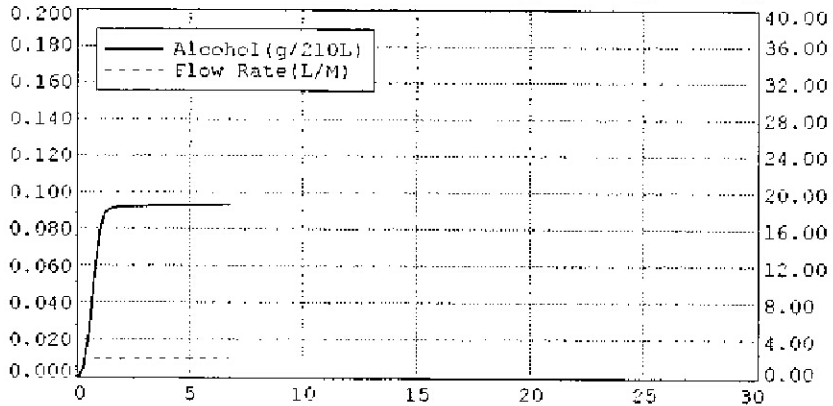
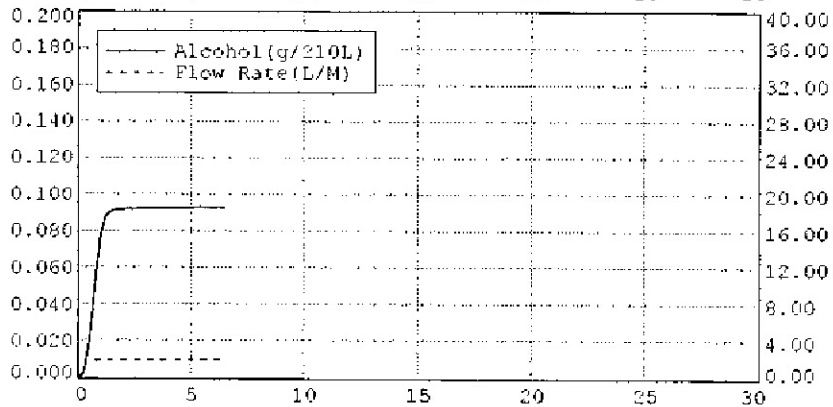
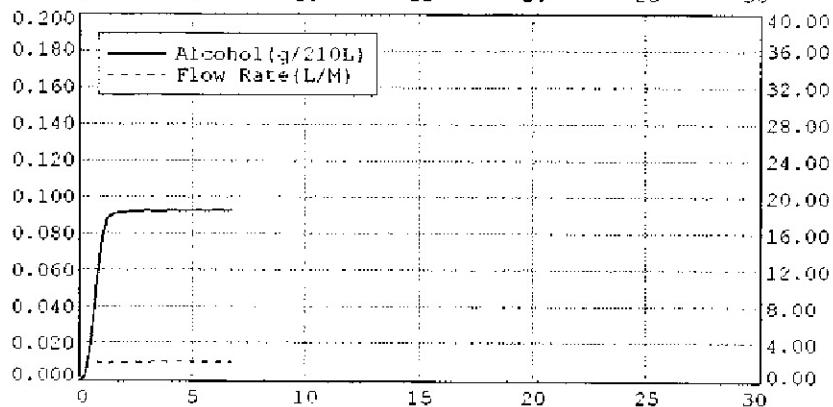
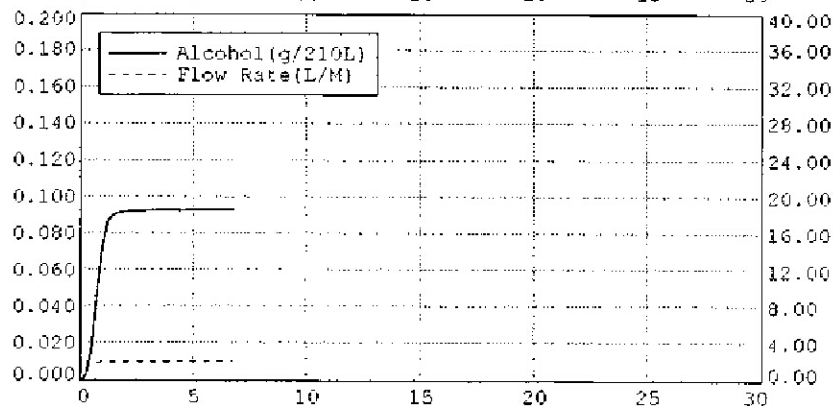
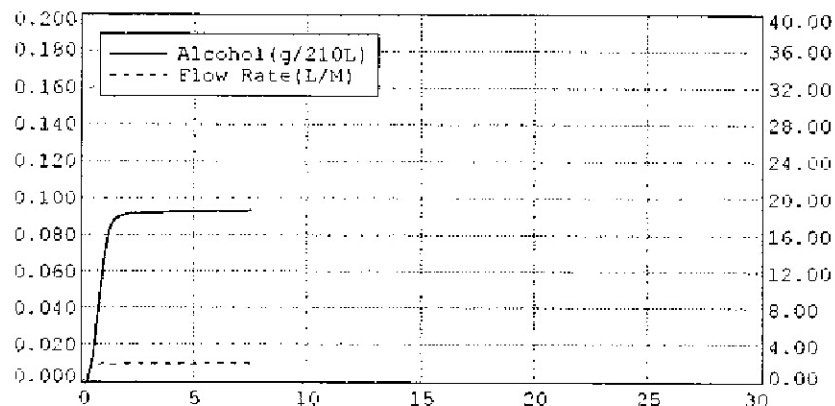
Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 09/19/2014
Time: 10:39:12

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 28.98: 0.096
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
EXTERNAL STANDARD	0.094	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.093	10:42
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.093	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.093	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.094	10:45
BLANK TEST	0.000	10:46

Average = 0.0939
Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100696

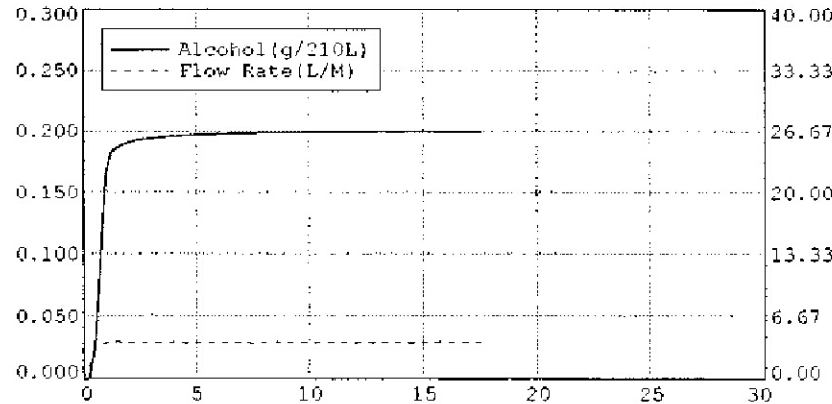
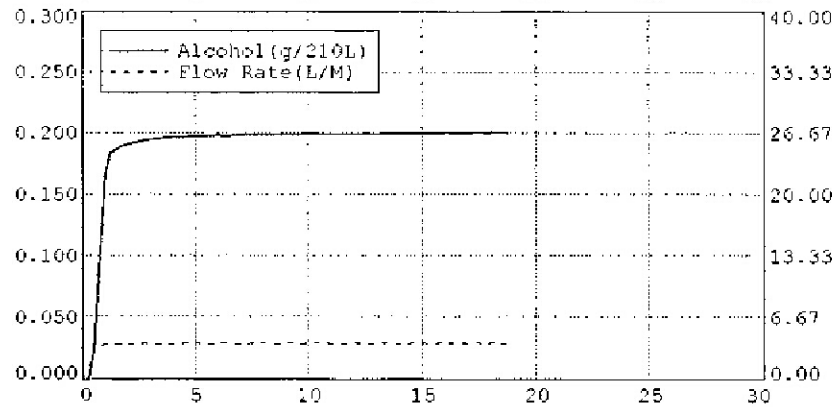
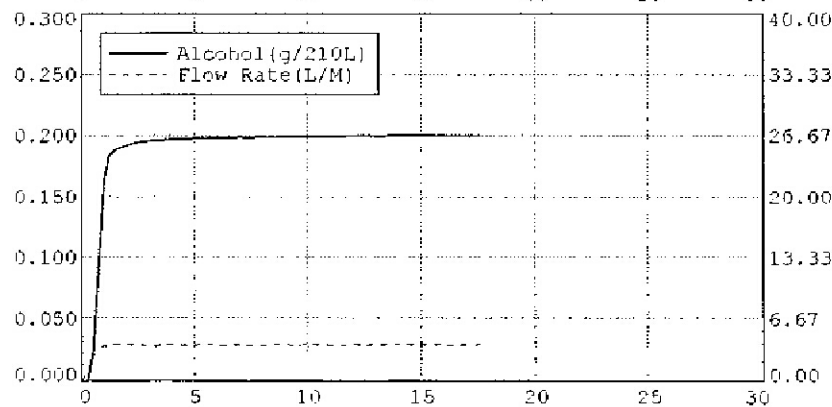
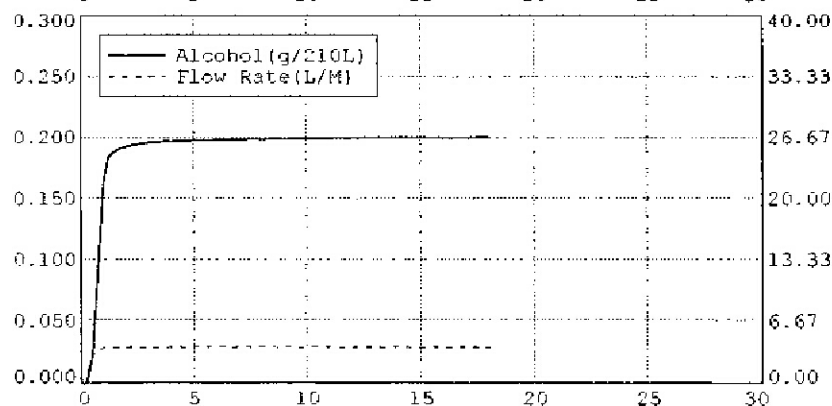
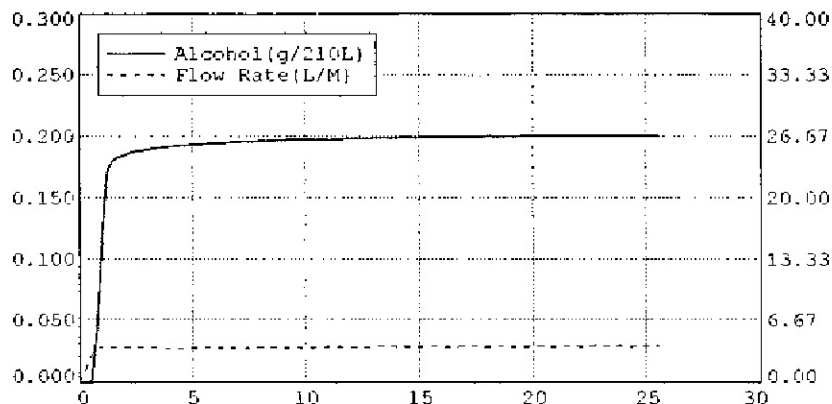
Date: 09/19/2014
Time: 10:51:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 14130
EXPIRATION: 05/12/2016

BLANK TEST	0.000	10:54
INTERNAL STANDARD	VERIFIED	10:54
EXTERNAL STANDARD	0.201	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.200	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.200	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.200	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.200	11:00
BLANK TEST	0.000	11:00

Average = 0.2007
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100696

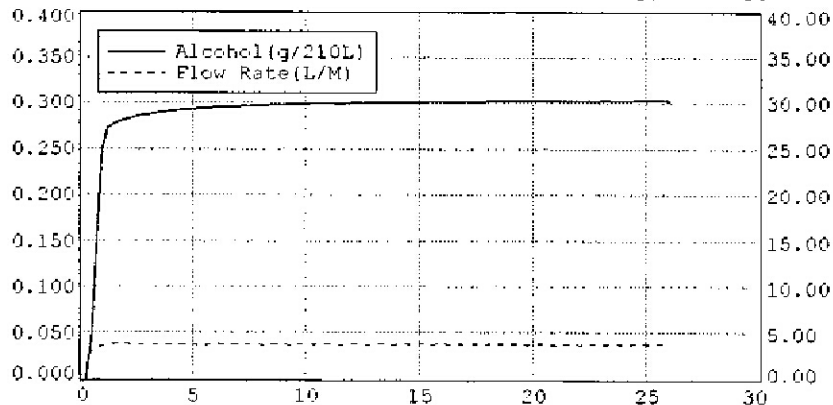
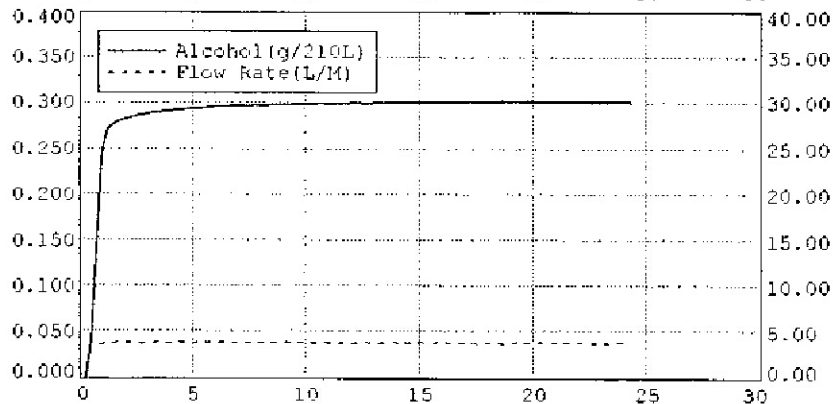
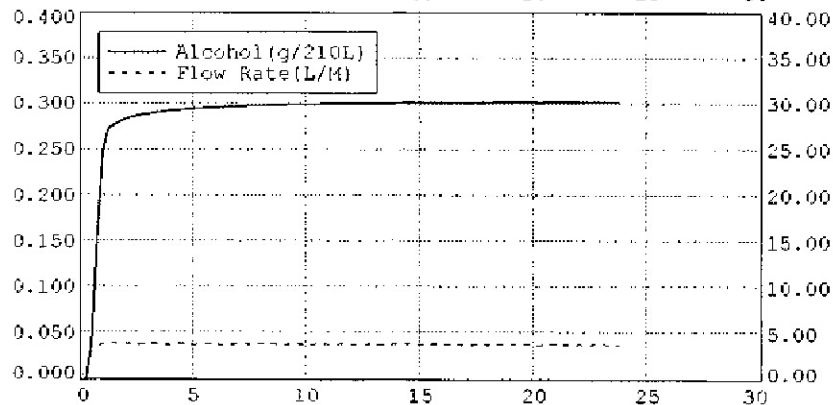
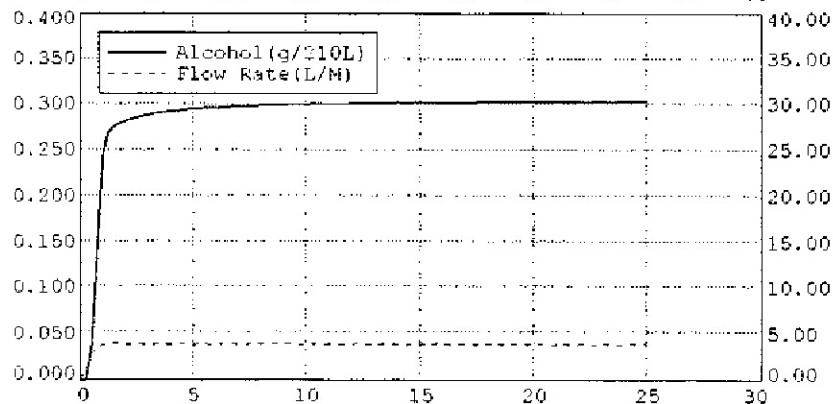
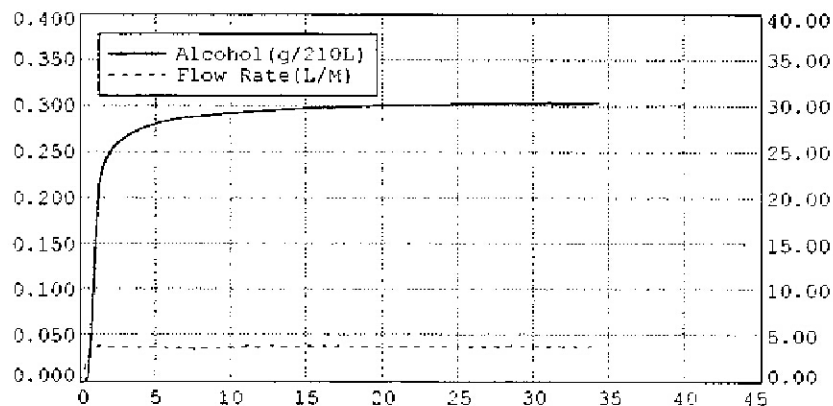
Date: 09/19/2014
Time: 11:03:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 13080
EXPIRATION: 03/19/2015

BLANK TEST	0.000	11:04
INTERNAL STANDARD	VERIFIED	11:04
EXTERNAL STANDARD	0.303	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.303	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.302	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.301	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.302	11:10
BLANK TEST	0.000	11:11

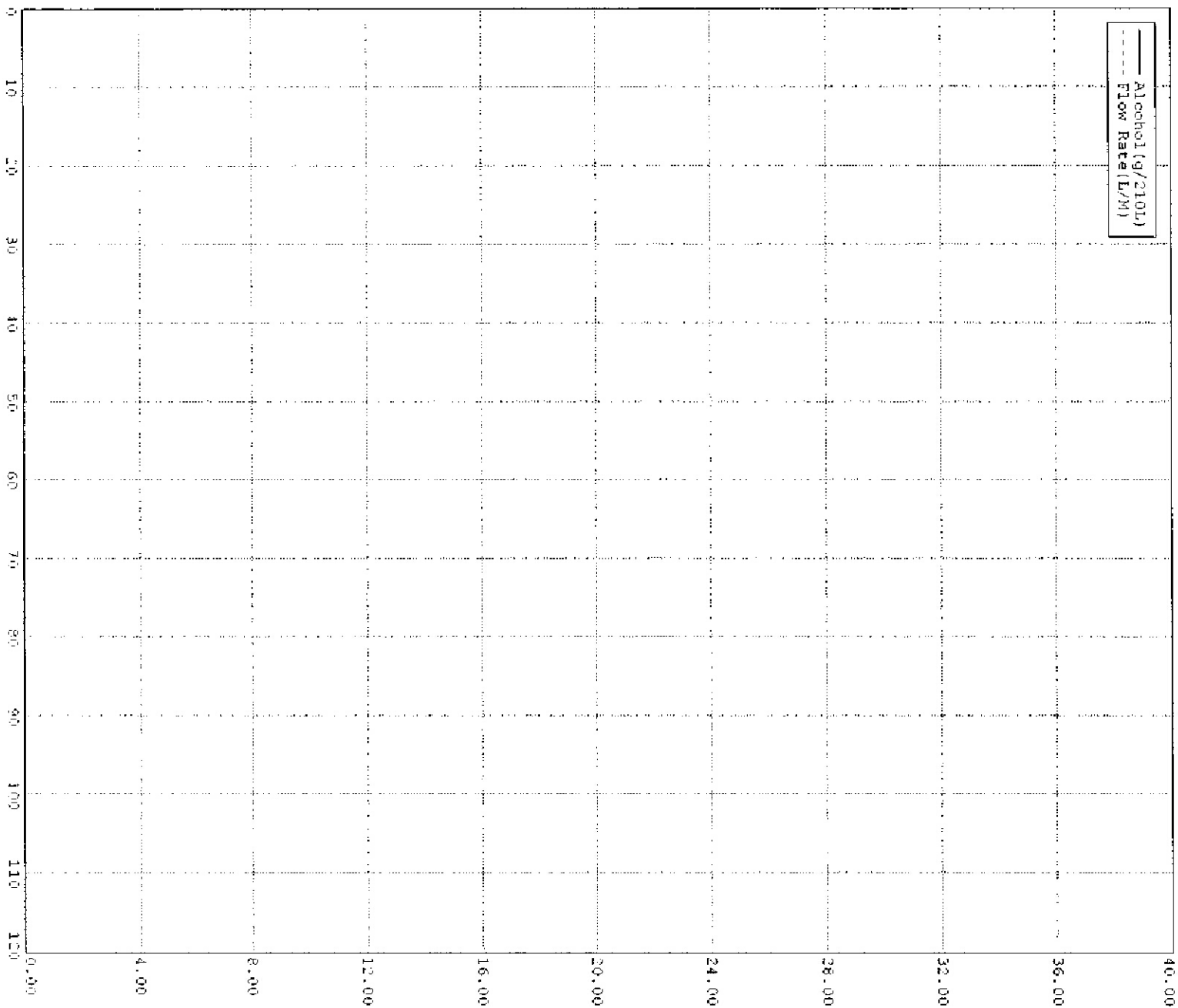
Average = 0.3026
Std Dev = 0.0006



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100696Date: 09/19/2014
Time: 11:16:02SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.99: 0.077
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	11:17
BLANK TEST	0.000	11:17
INTERNAL STANDARD	VERIFIED	11:17
EXTERNAL STANDARD	0.075	11:17
BLANK TEST	0.000	11:18
SUBJECT SAMPLE	INCOMPLETE	11:20



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100696Date: 09/19/2014
Time: 13:52:57

SUBJECT NAME:

TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INVALID MOUTH ETOH
OPERATOR'S #: XXXX

DEPT/AGENCY:

XXXX

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

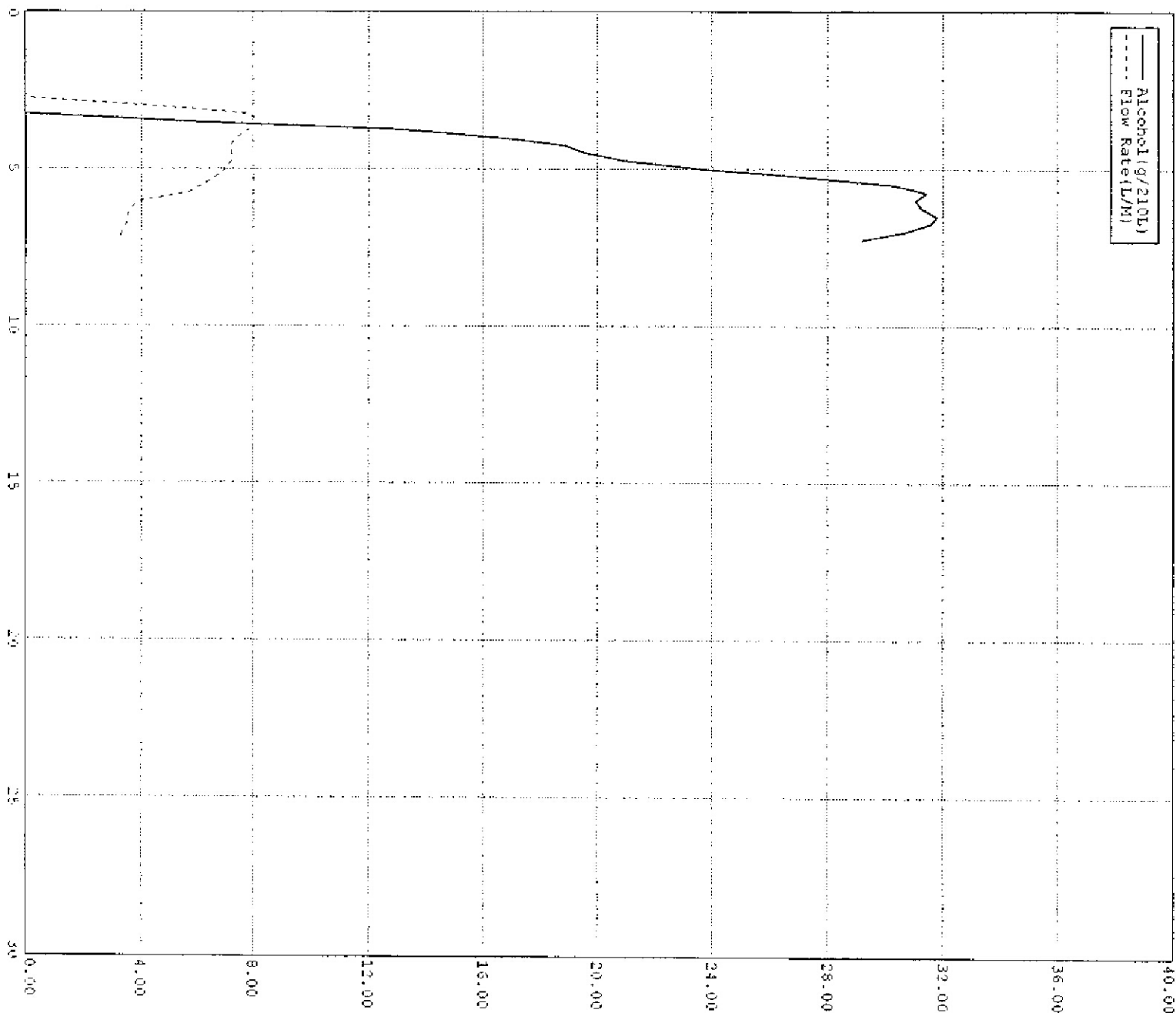
TARGET AT 29.02: 0.077

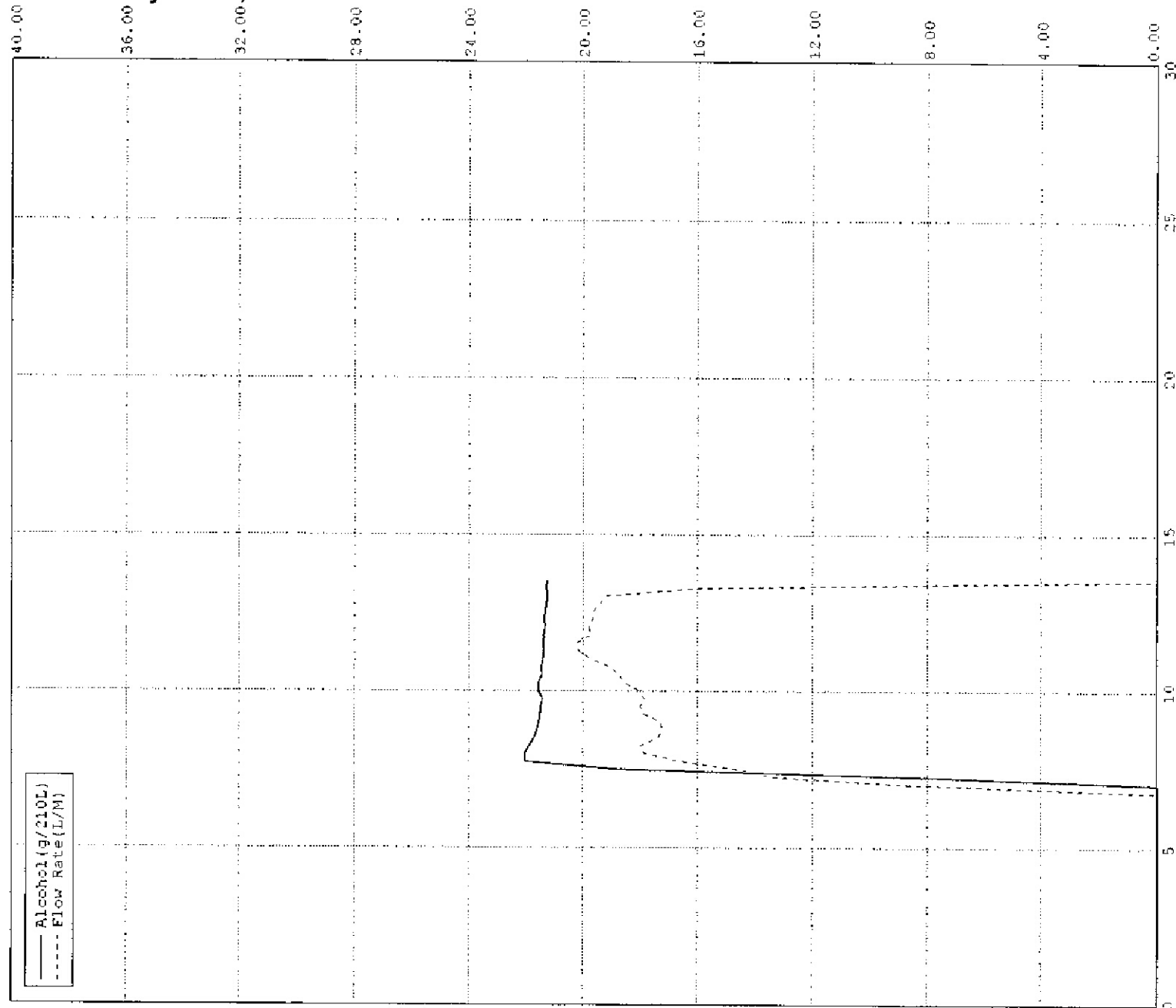
LOT #: 09214080A2

EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK

BLANK TEST	PASSED	13:57
INTERNAL STANDARD	0.000	13:57
EXTERNAL STANDARD	VERIFIED	13:57
0.076		13:57
BLANK TEST	0.000	13:58
SUBJECT SAMPLE	INVALID	13:58





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100696

Date: 09/19/2014
 Time: 14:14:13

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE ACETONE
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 XXXX

CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

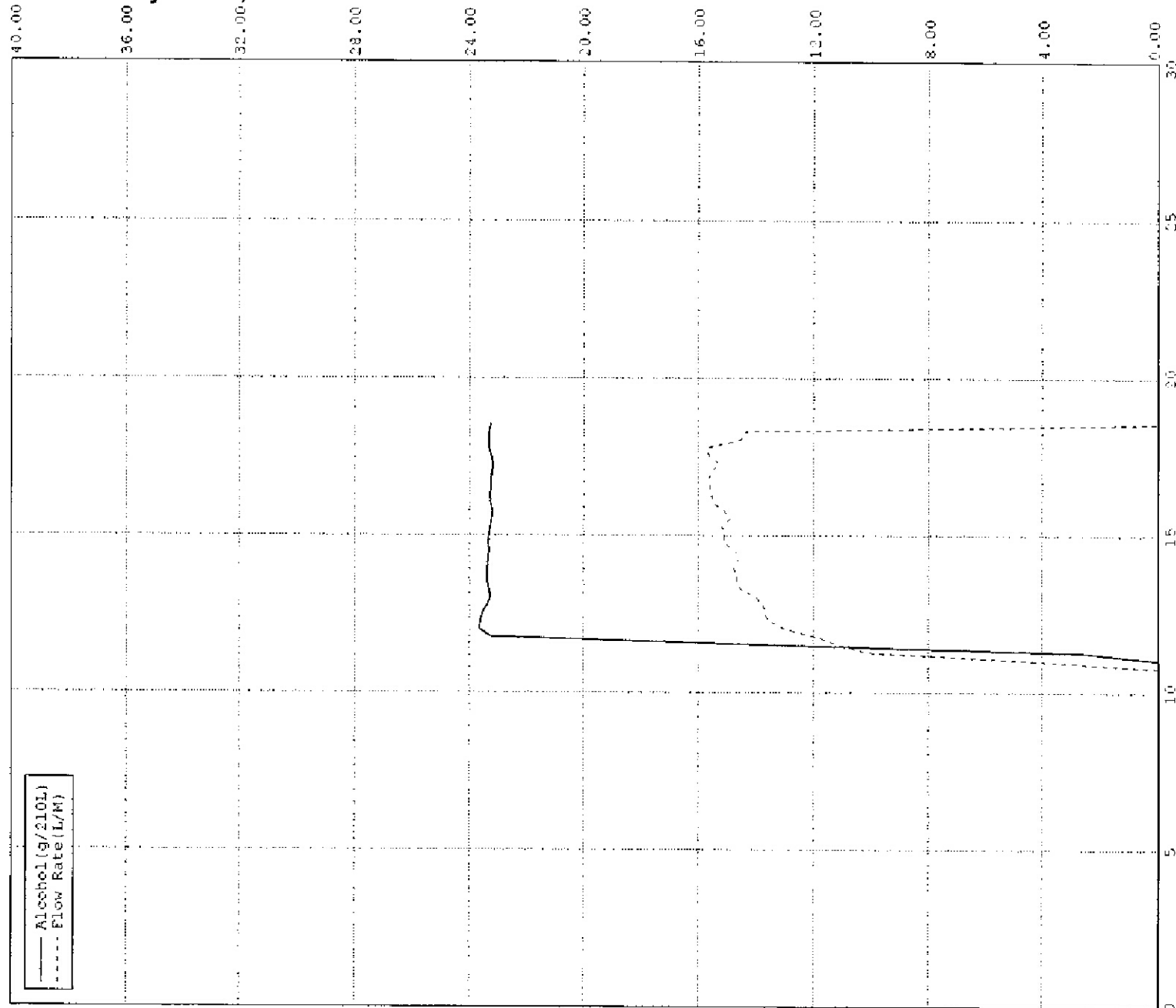
NOMINAL: 0.080
 TARGET AT 29.03: 0.077
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	14:20
BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
$X_q = 0.103$ (0.42%)		
EXTERNAL STANDARD	0.076	14:20
$X[1] = 0.0764$ (-0.0018) (0.0011)		
BLANK TEST	0.000	14:21
SUBJECT SAMPLE	INTERFERENCE	14:21
$X[1] = 0.1065$ (-0.0159) (-0.0001)		

Filter 2 Avg = -0.0017

Filter 3 Avg = 0.0013

CTF
 9/22/14



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100696

Date: 09/19/2014
 Time: 14:27:45

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

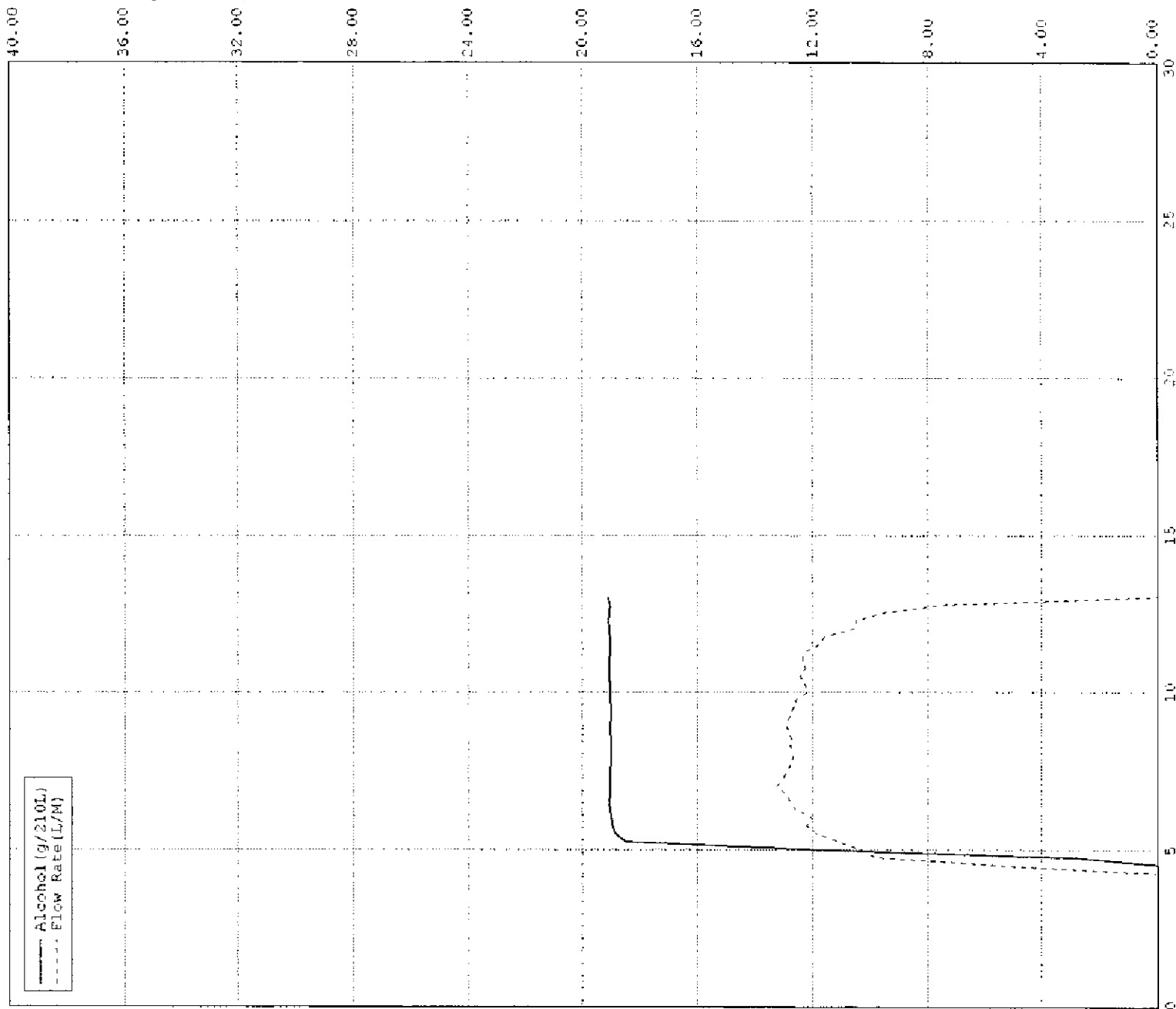
OPERATOR NAME:
 INTERFERENCE IPA
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.03: 0.077
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	14:30
BLANK TEST	0.000	14:30
INTERNAL STANDARD	VERIFIED	14:30
$X_q = 0.104$ (0.08%)		
EXTERNAL STANDARD	0.076	14:31
$X[1] = 0.0767$ (-0.0013)	(0.0020)	
BLANK TEST	0.000	14:32
SUBJECT SAMPLE	INTERFERENCE	14:32
$X[1] = 0.1156$ (-0.0236)	(0.0002)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100696

Date: 09/19/2014
 Time: 14:39:16

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE NEGATIVE
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 XXXX

CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.04: 0.077
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016

TEST TYPE	TIME	RESULT
DIAGNOSTIC CHECK	14:44	PASSED
BLANK TEST	14:44	0.000
INTERNAL STANDARD	14:44	VERIFIED
$x_g = 0.104 (0.34\%)$		
EXTERNAL STANDARD	14:44	0.076
$x_{[1]} = 0.0769 (-0.0017)$	14:44	(0.0012)
BLANK TEST	14:45	0.000
SUBJECT SAMPLE (Vol=1.67L)	14:45	0.096
$x_{[1]} = 0.0961 (0.0012)$	14:45	(-0.0008)
BLANK TEST	14:46	0.000
EXTERNAL STANDARD	14:47	0.076
$x_{[1]} = 0.0761 (-0.0018)$	14:47	(0.0009)
BLANK TEST	14:47	0.000

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100696

Date: 09/22/2014
 Time: 08:17:45

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

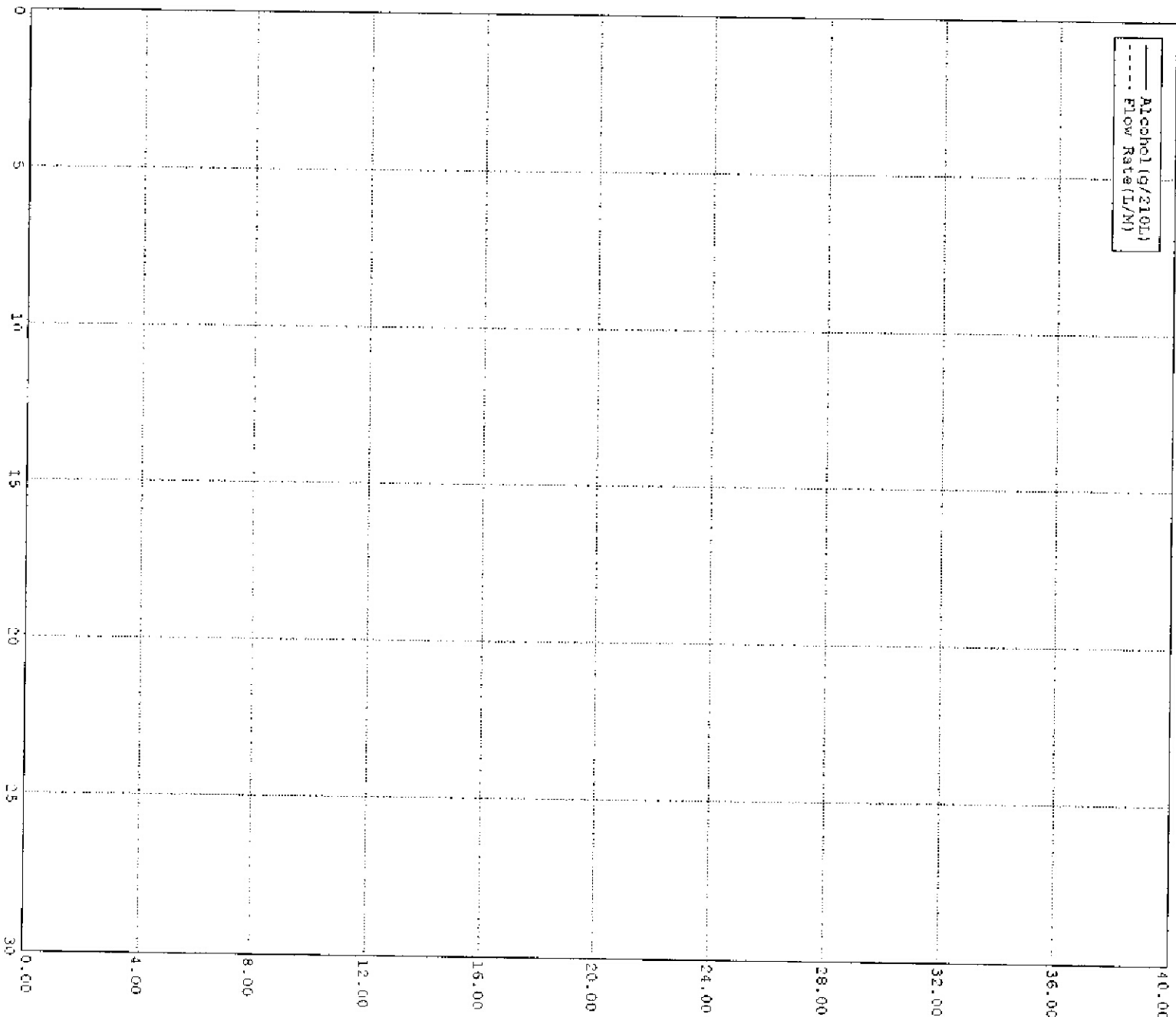
OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 25.32: 0.078
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	08:19
BLANK TEST	0.000	08:19
INTERNAL STANDARD	VERIFIED	08:20
EXTERNAL STANDARD	0.077	08:20
BLANK TEST	0.000	08:21

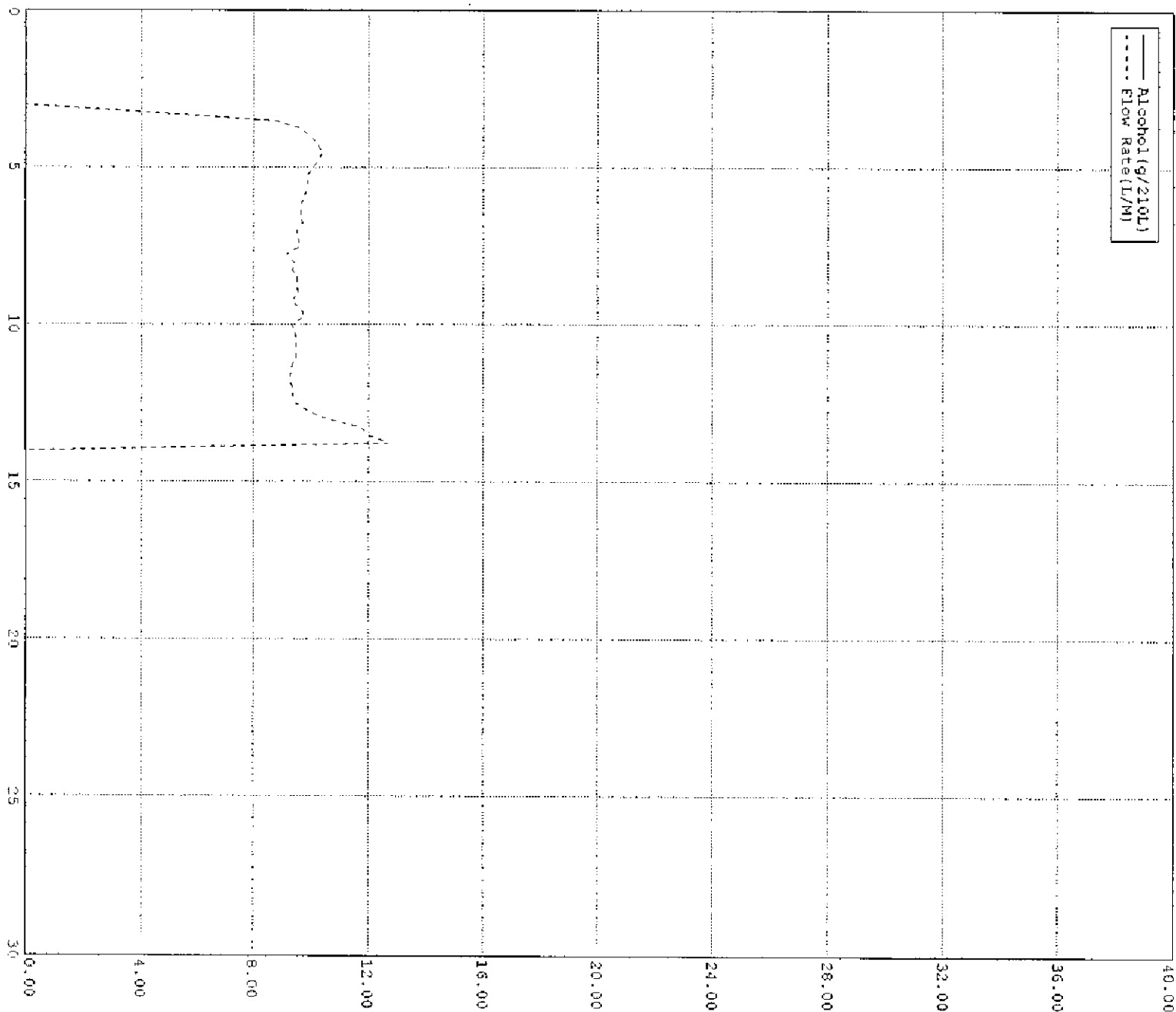
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100696Date: 09/22/2014
Time: 08:45:55SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.33: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	08:48
BLANK TEST	0.000	08:48
INTERNAL STANDARD	VERIFIED	08:48
EXTERNAL STANDARD	0.077	08:48
BLANK TEST	0.000	08:49
SUBJECT SAMPLE	0.000	08:49
BLANK TEST	0.000	08:50
EXTERNAL STANDARD	0.077	08:50
BLANK TEST	0.000	08:51



Final page for report

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12/2/2014