

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 100342 Analyst CTE Start Date 9/19/14

1. Diagnostic Test (attached) ☒
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp (2.6V Maximum)
 - ii. Bias
 - iii. Cooler (2.0V Maximum)
 - 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)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1.4 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 11313080A1 Exp 6/1/15
 - 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: 100342

Date: 09/18/2014
Time: 14:55:18

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 = 4.911 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
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Technician Screen

DATAMASTER dmt: 100342

Date: 09/18/2014

Time: 3:09 PM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 48.0°C

Current Barometer 28.8 in

Volume (Ltr) 1.53

Settings

Lamp: 1.73 V

Bias: 80 V

Cooler: 1.68 V

Chopper: 531 Hz

Voltages (V)

Flow: 1.02 V

Detector: -0.012 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 06/24/2011
Time: 09:44:57

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: REPC0100
BOTTLE #: 10003
EXPIRATION: 09/08/2012

Ca	=	0.1000		
CAL	=	0.963640	0.800	<= CAL < 1.200
b1	=	0.0004	0.0000	<= b1 < 0.0040
b2	=	0.0062	0.0010	<= b2 < 0.0100
b3	=	0.0003	0.0000	<= b3 < 0.0040
Xq	=	0.0913	0.0500	<= Xq < 0.2000
a21	=	1.160994	1.050	<= a21 < 1.300
a31	=	0.474325	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100342

Date: 09/18/2014
 Time: 15:24:02

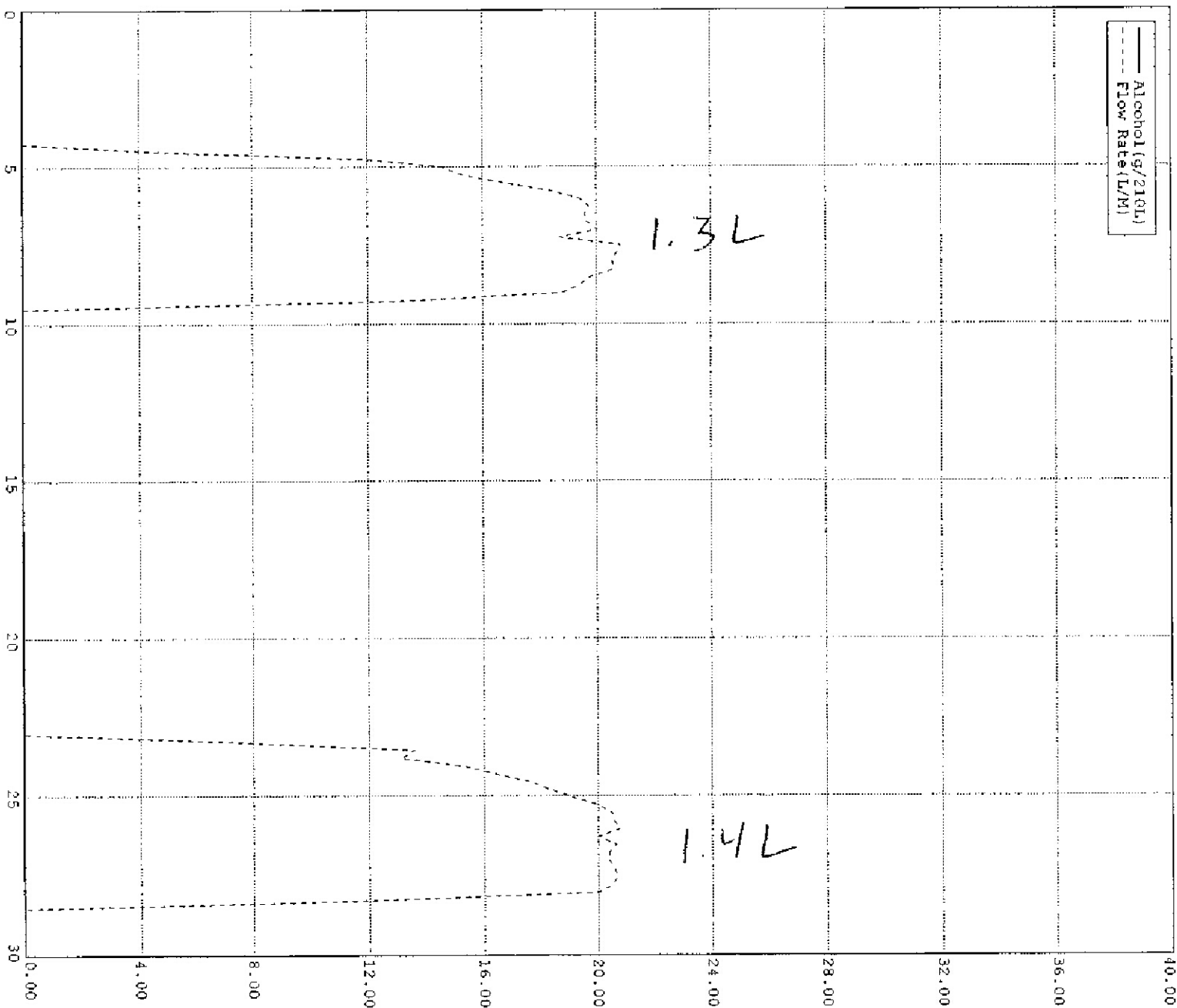
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.76: 0.076
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:25
BLANK TEST	0.000	15:25
INTERNAL STANDARD	VERIFIED	15:25
EXTERNAL STANDARD	0.075	15:25
BLANK TEST	0.000	15:26
SUBJECT SAMPLE	0.000	15:26
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.075	15:28
BLANK TEST	0.000	15:28



LINEARITY CHECK

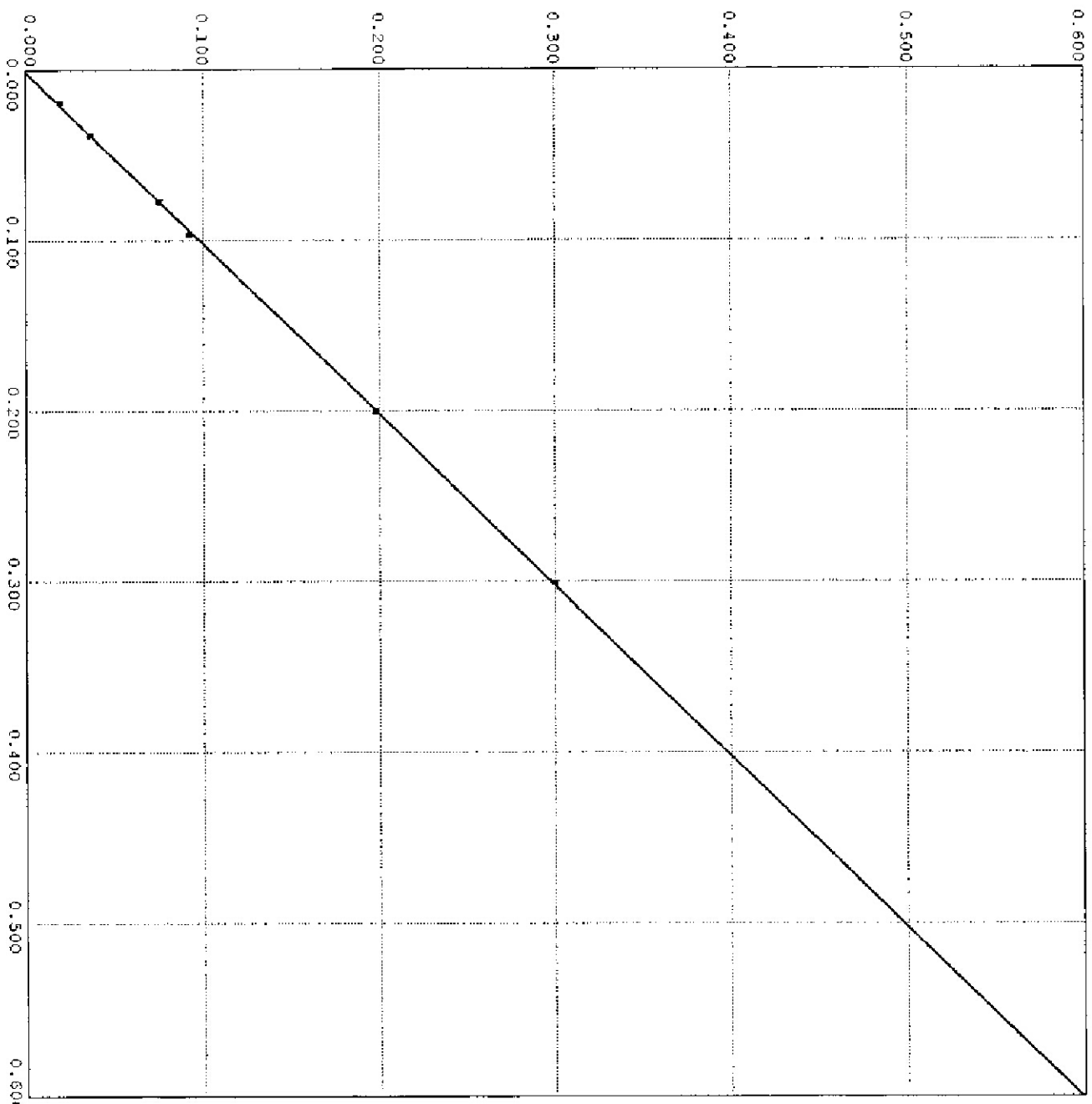
Alaska Department of Public Safety
 DATAMASTER dmt: 100342

Date: 09/19/2014
 Time: 09:37:21

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0003
0.038	0.0376	0.0002
0.077	0.0763	0.0005
0.096	0.0929	0.0004
0.200	0.1985	0.0003
0.300	0.3001	0.0008

SLOPE = 0.999157
 R^2 = 0.999831



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100342

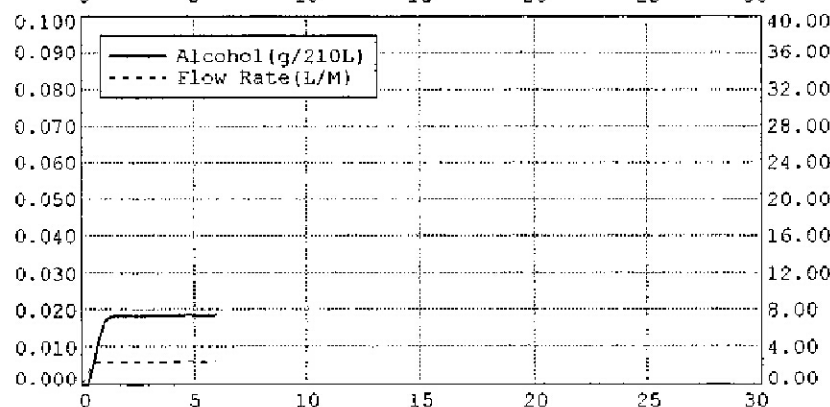
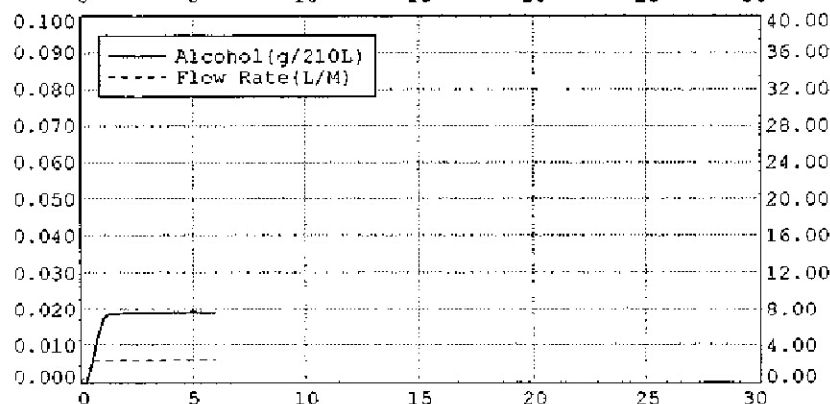
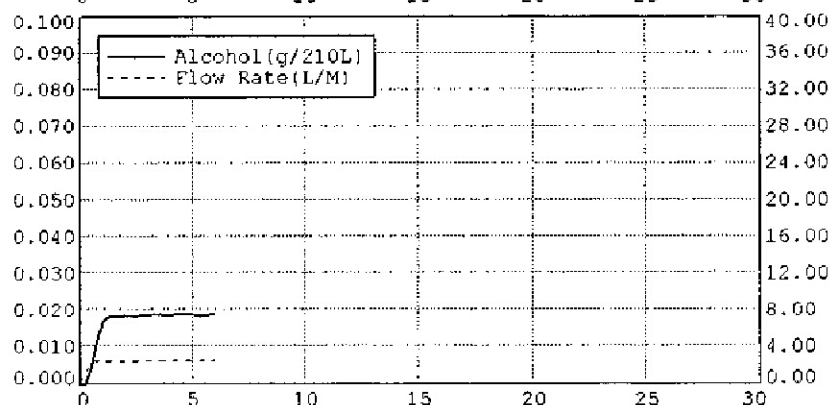
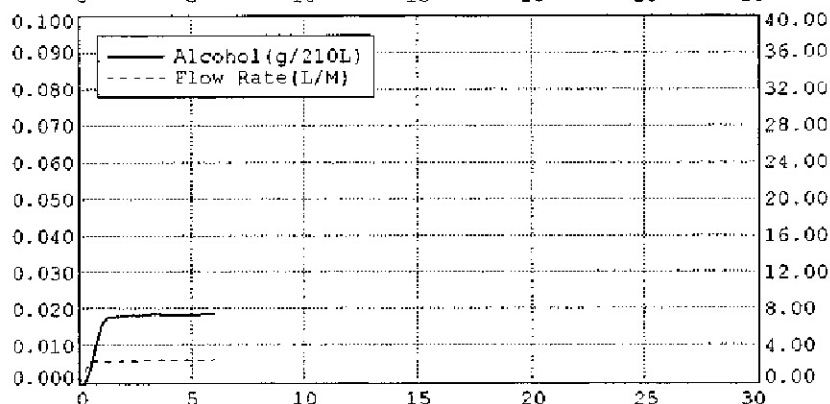
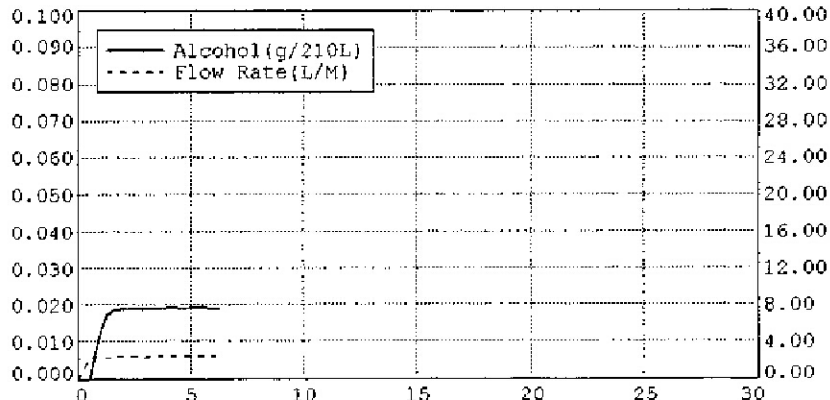
Date: 09/19/2014
Time: 09:37:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 28.94: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:50
INTERNAL STANDARD	VERIFIED	09:50
EXTERNAL STANDARD	0.020	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.019	09:51
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.019	09:53
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.020	09:54
BLANK TEST	0.000	09:55
EXTERNAL STANDARD	0.019	09:55
BLANK TEST	0.000	09:56

Average = 0.0200
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100342

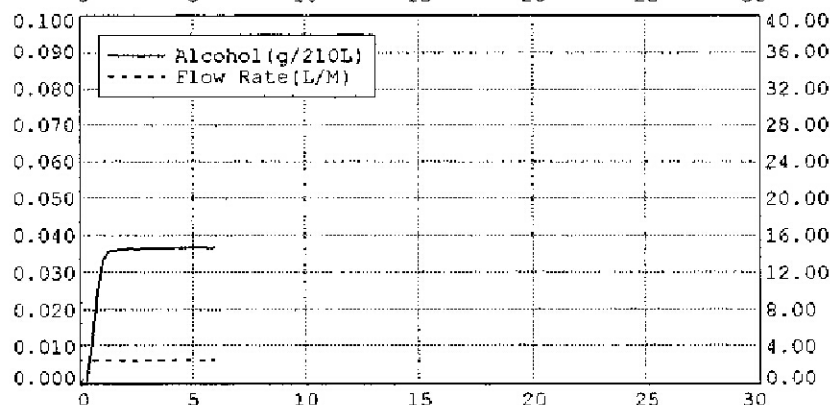
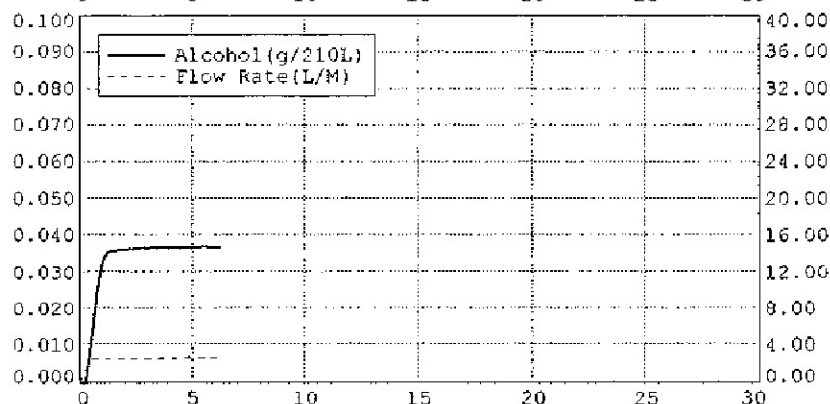
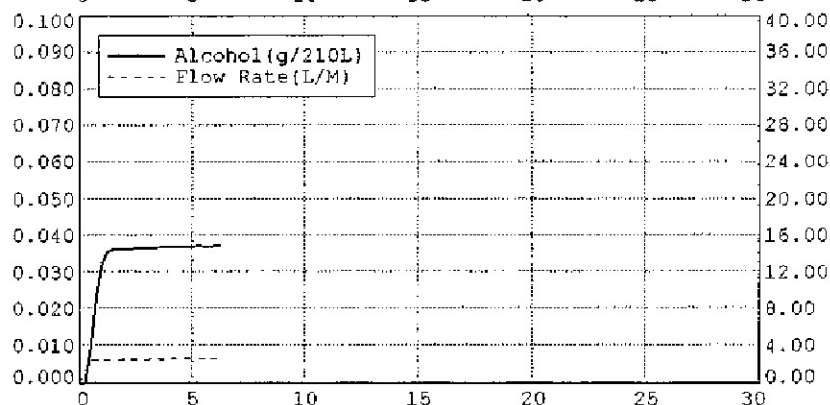
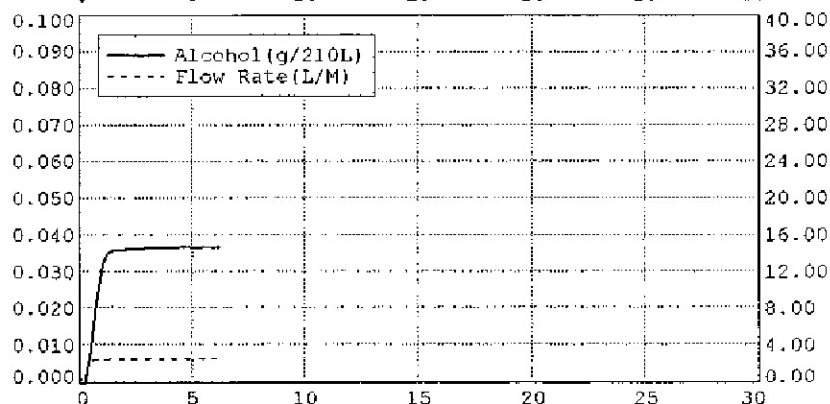
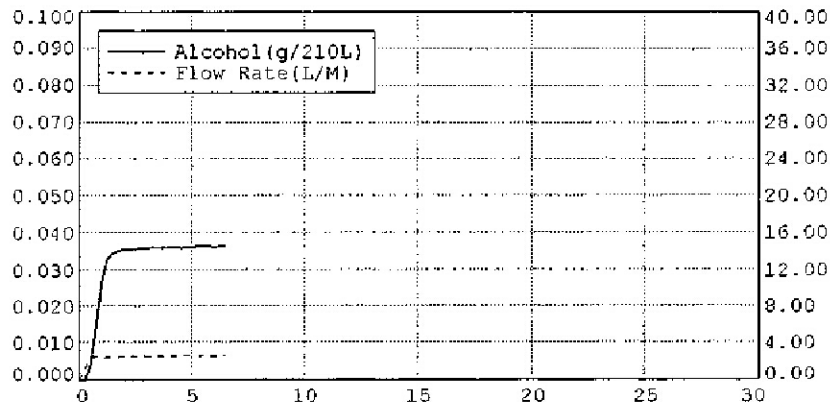
Date: 09/19/2014
Time: 09:58:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 28.94: 0.038
LOT #: 00813040A2
EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	09:59
EXTERNAL STANDARD	0.037	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.037	10:01
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.037	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.037	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.037	10:04
BLANK TEST	0.000	10:05

Average = 0.0376
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dnt: 100342

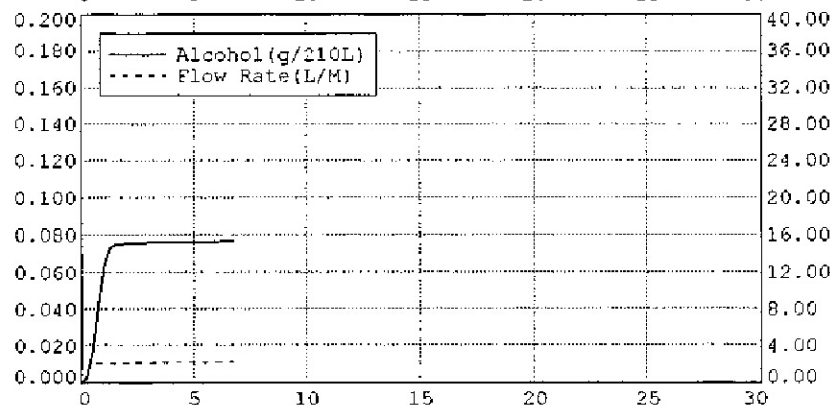
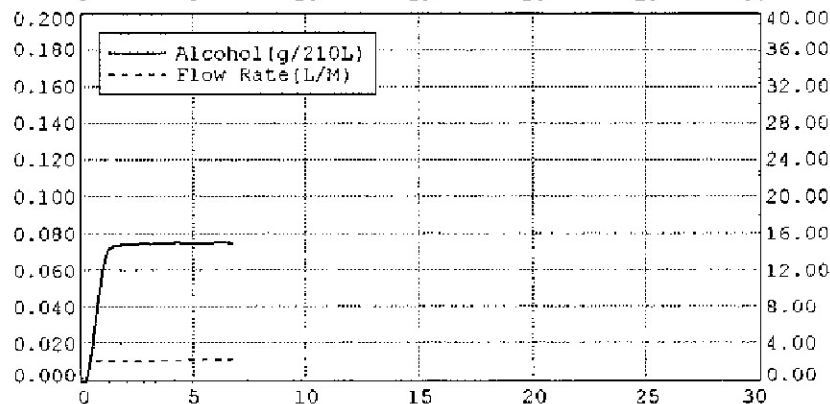
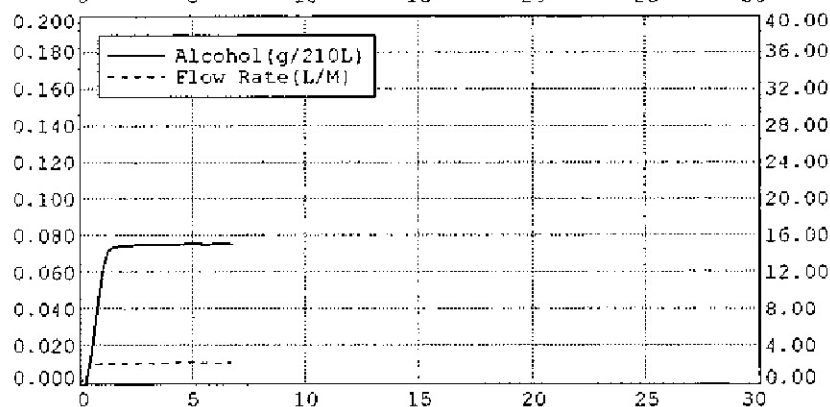
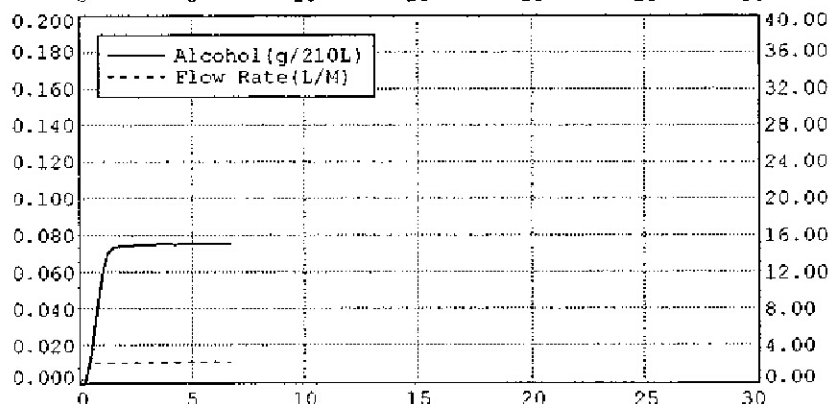
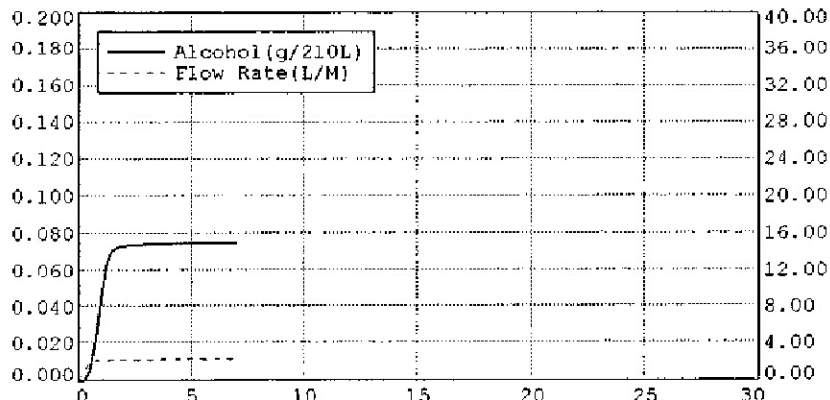
Date: 09/19/2014
Time: 10:07:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.95: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

BLANK TEST	0.000	10:09
INTERNAL STANDARD	VERIFIED	10:09
EXTERNAL STANDARD	0.075	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.076	10:10
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.076	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.076	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.077	10:14
BLANK TEST	0.000	10:14

Average = 0.0763
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100342

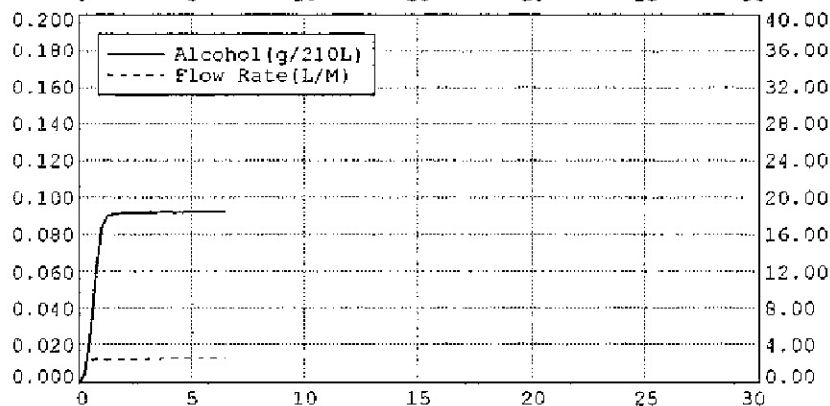
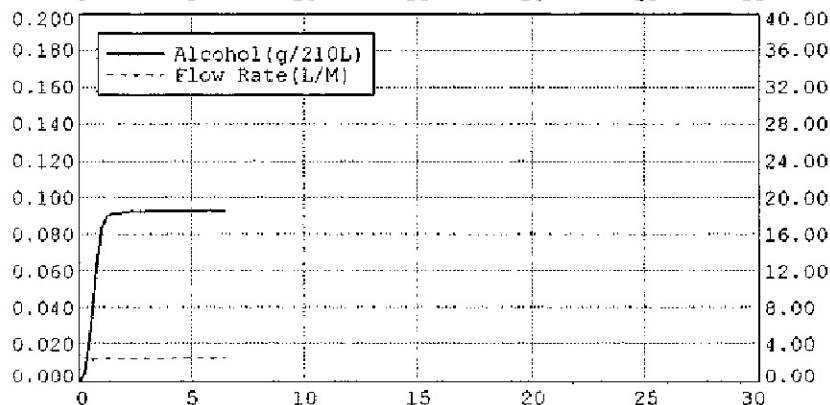
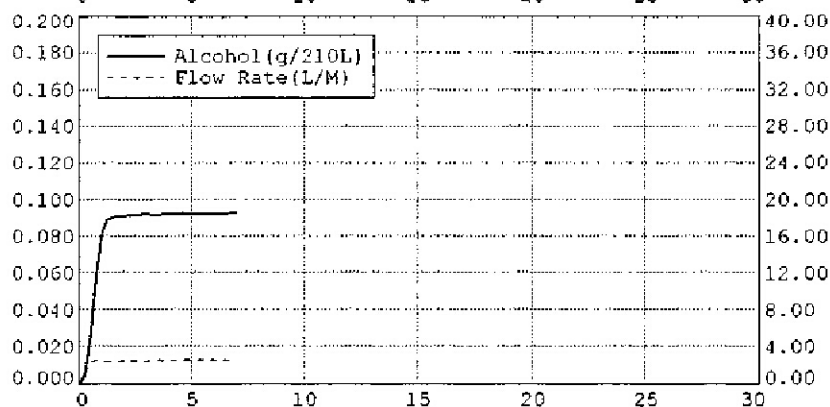
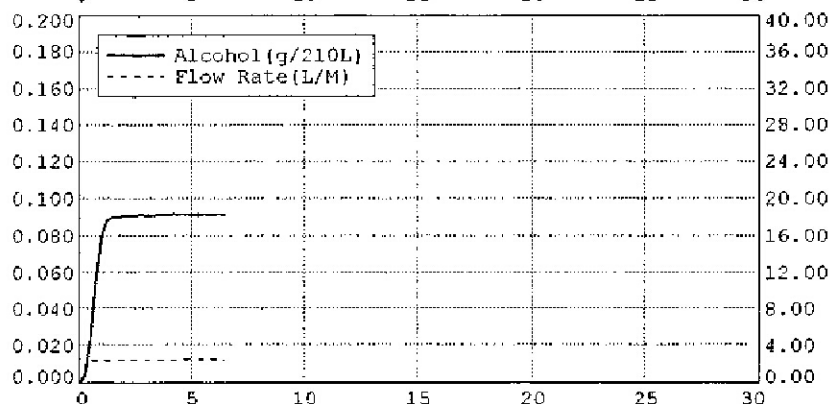
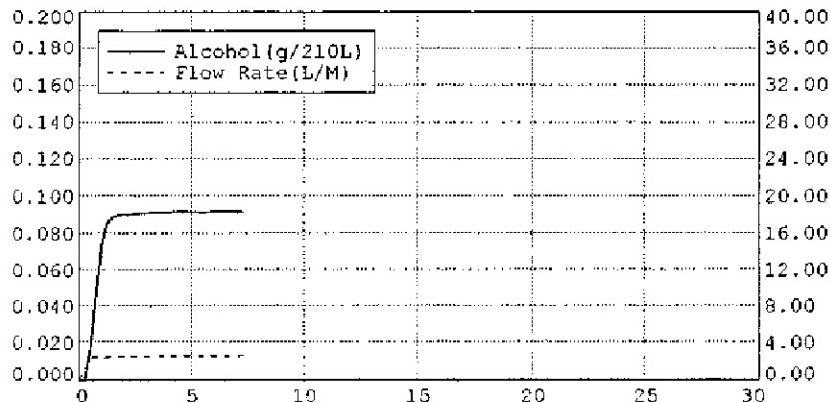
Date: 09/19/2014
Time: 10:17:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 28.95: 0.096
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:18
INTERNAL STANDARD	VERIFIED	10:18
EXTERNAL STANDARD	0.092	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.092	10:20
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.093	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.093	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.093	10:23
BLANK TEST	0.000	10:24

Average = 0.0929
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100342

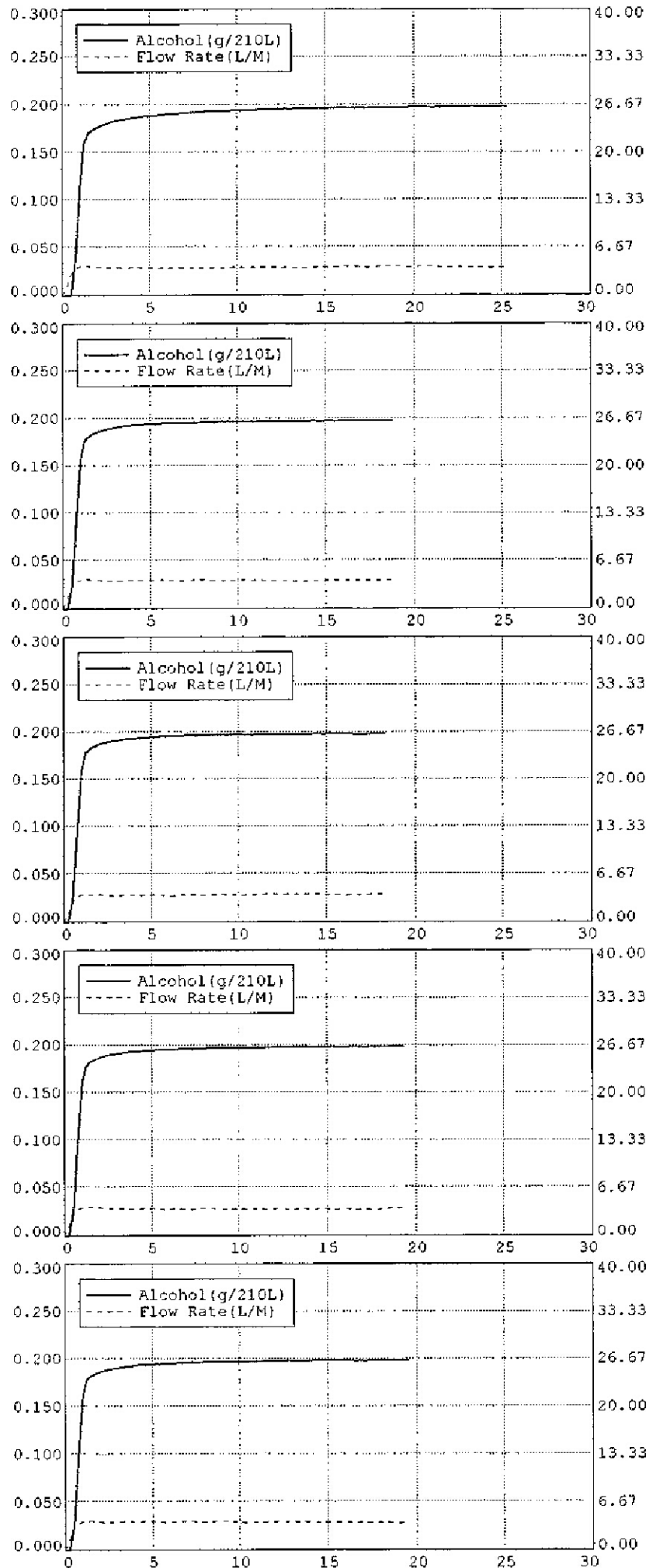
Date: 09/19/2014
Time: 10:26:38

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	10:28
INTERNAL STANDARD	VERIFIED	10:28
EXTERNAL STANDARD	0.198	10:29
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.198	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.198	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.198	10:33
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.198	10:34
BLANK TEST	0.000	10:35

Average = 0.1985
Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100342

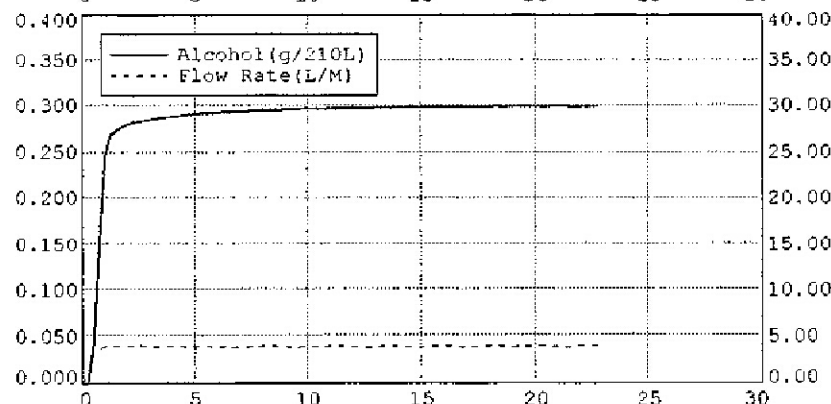
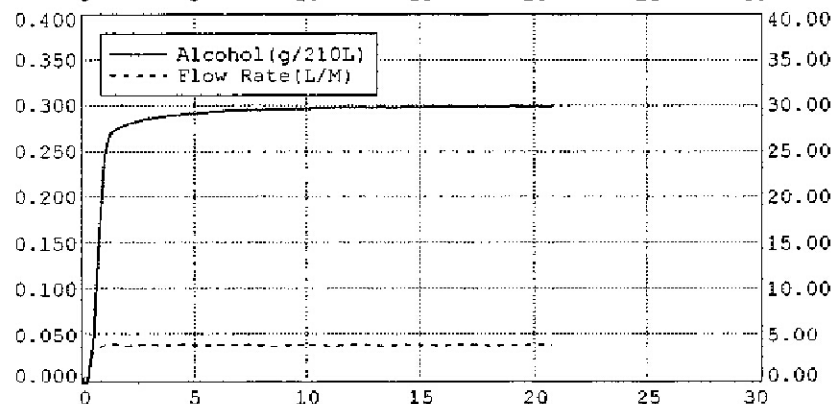
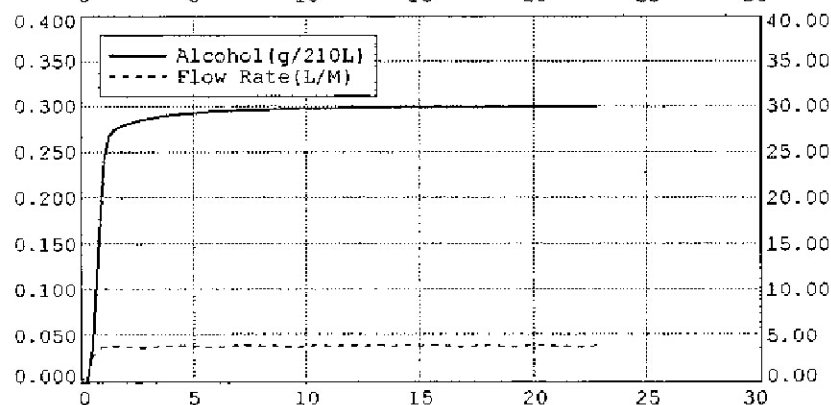
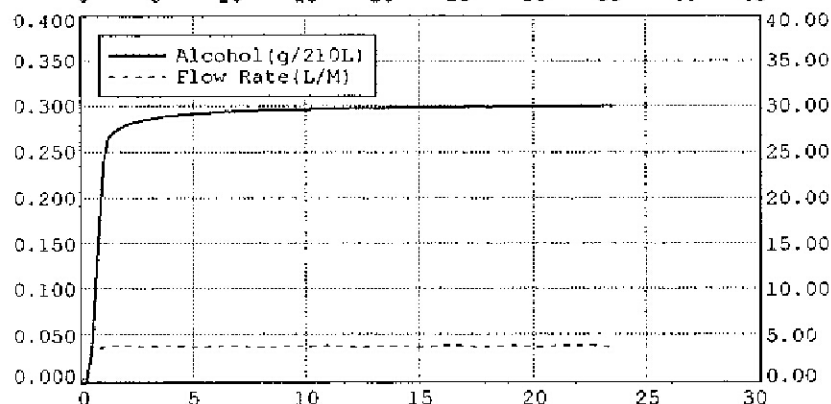
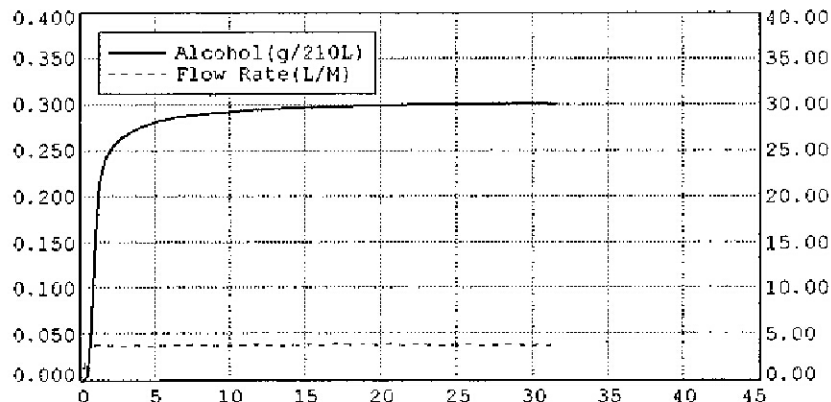
Date: 09/19/2014
Time: 10:36:41

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	10:37
INTERNAL STANDARD	VERIFIED	10:37
EXTERNAL STANDARD	0.301	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.300	10:40
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.300	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.299	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.299	10:44
BLANK TEST	0.000	10:45

Average = 0.3001
Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100342

Date: 09/19/2014
Time: 11:14:47

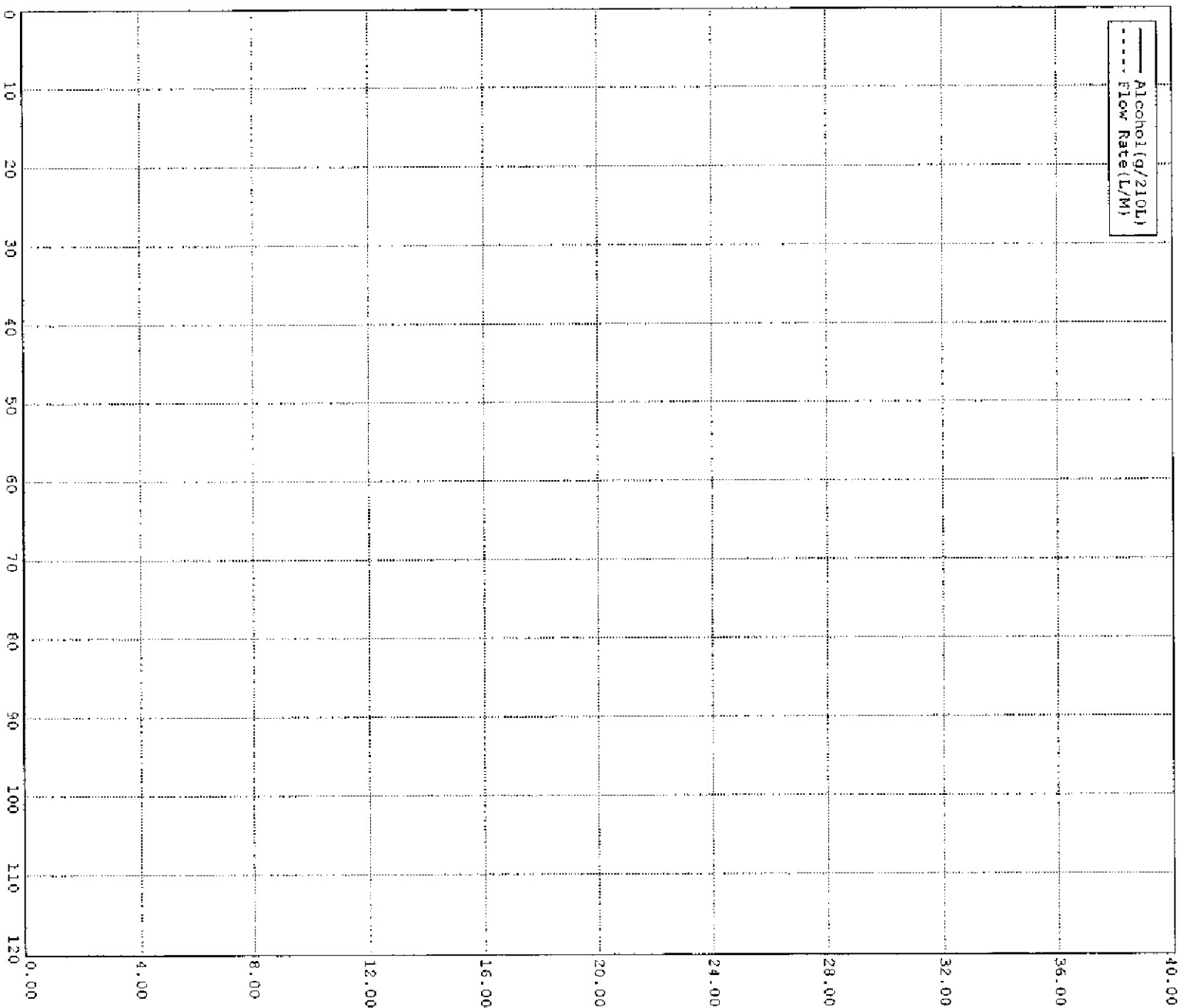
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.58: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	11:16
BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:16
EXTERNAL STANDARD	0.076	11:17
BLANK TEST	0.000	11:18
SUBJECT SAMPLE	INCOMPLETE	11:20



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100342

Date: 09/19/2014
Time: 13:53:25

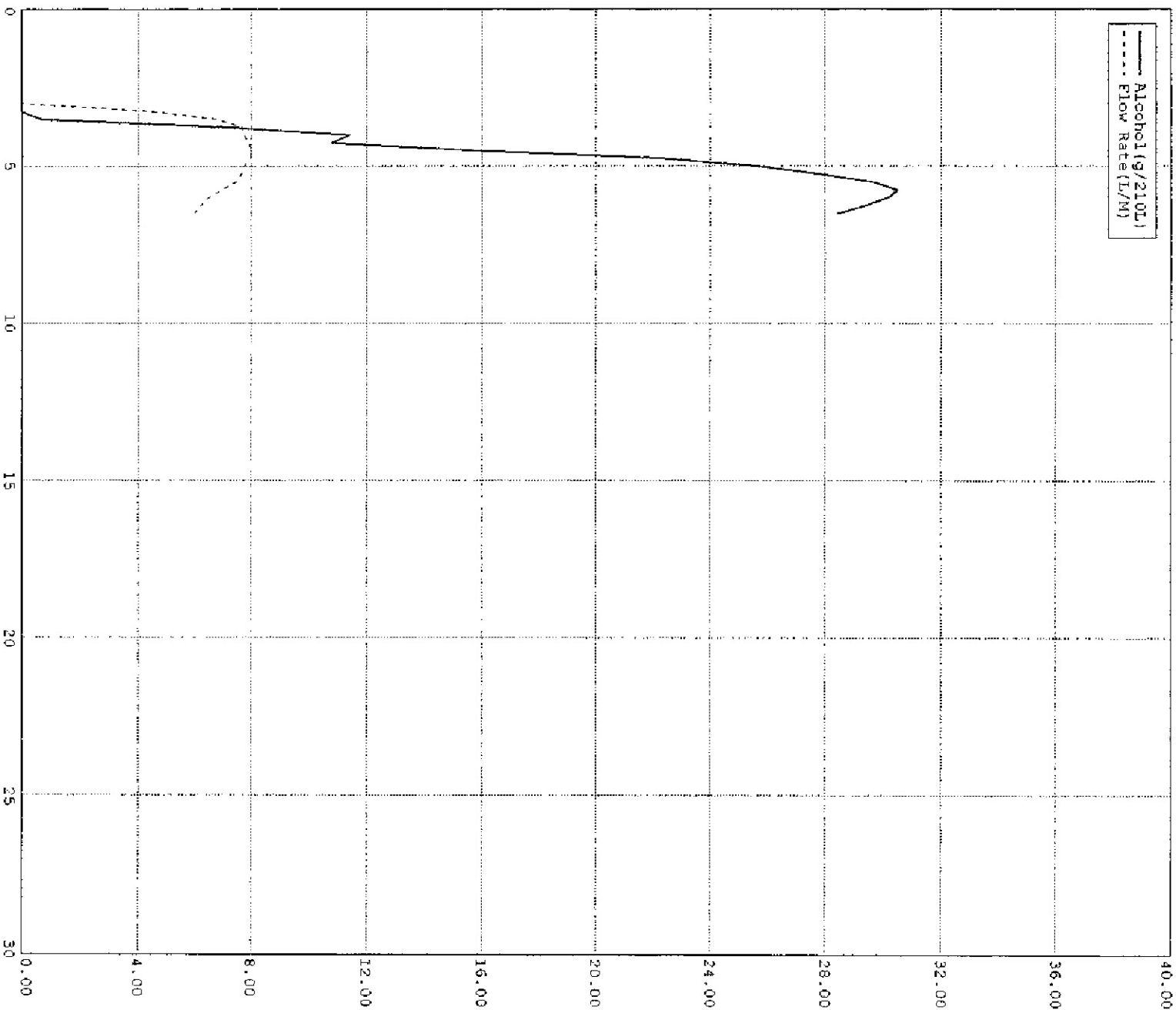
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR 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 #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	13:57
BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.075	13:57
BLANK TEST	0.000	13:58
SUBJECT SAMPLE	INVALID	13:59



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100342

Date: 09/19/2014
Time: 14:14:44

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE ACETONE
OPERATOR'S #: XXXX

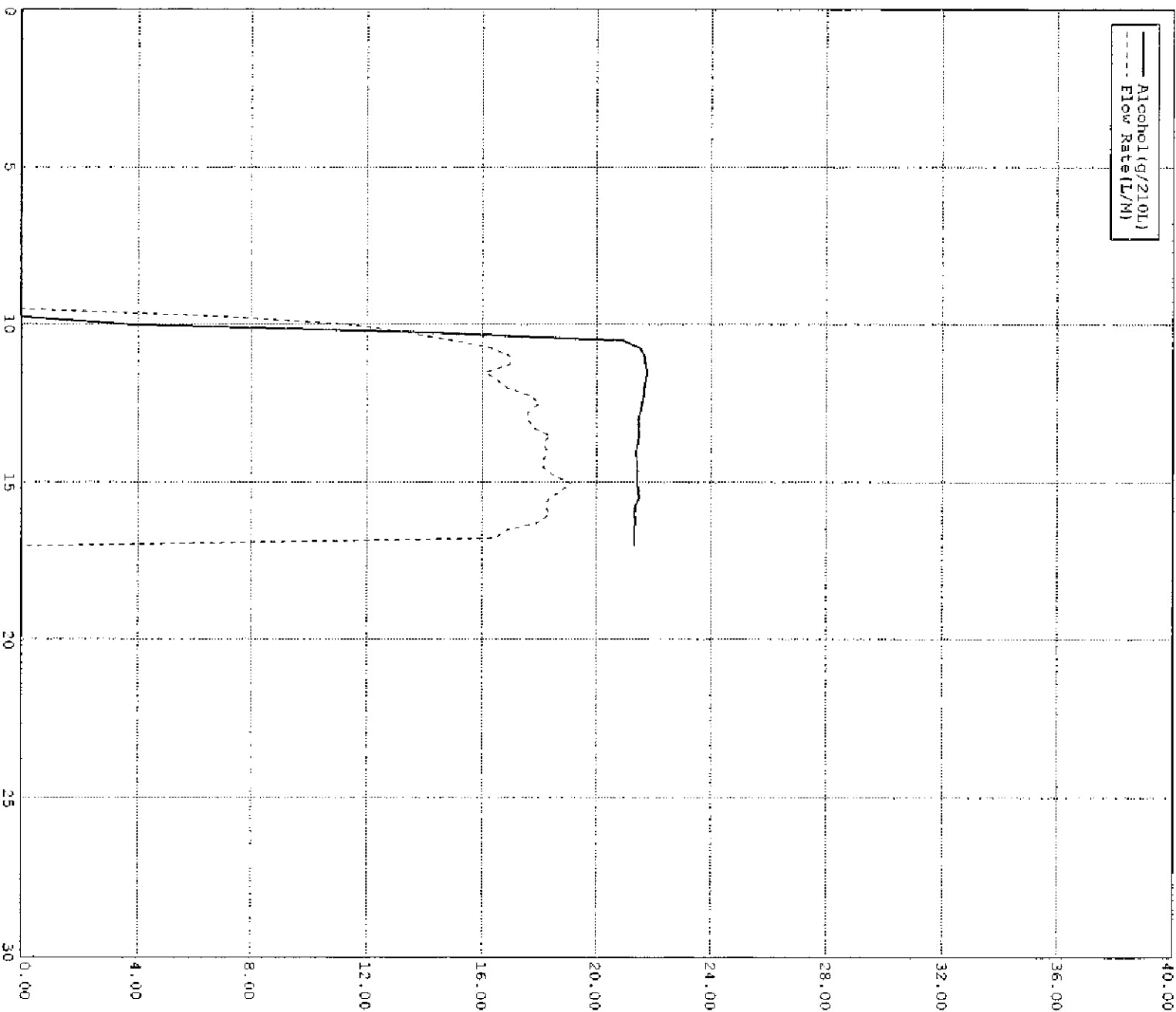
DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.03: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:21
BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
Xq = 0.091 (0.108)		
EXTERNAL STANDARD	0.076	14:22
X[1] = 0.0760 (-0.0021) (0.0017)		
BLANK TEST	0.000	14:23
SUBJECT SAMPLE	INTERFERENCE	14:23
X[1] = 0.1071 (-0.0148) (0.0014)		

Filter 2 Avg = -0.0018
Filter 3 Avg = 0.0017

CTF
9/22/14



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

Date: 09/19/2014
 Time: 14:28:01

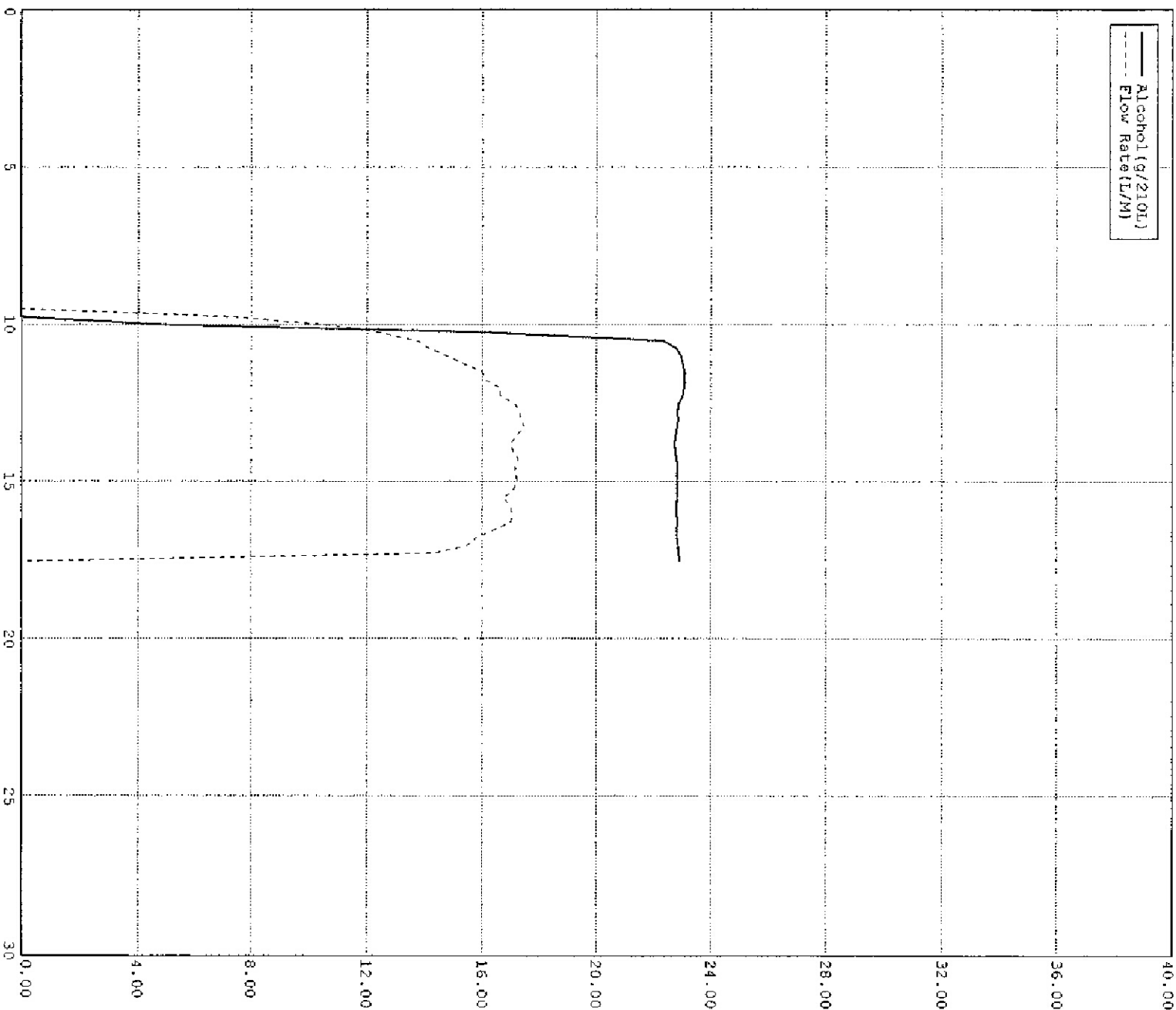
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:32
BLANK TEST	0.000	14:32
INTERNAL STANDARD	VERIFIED	14:32
X _g = 0.092 (0.57%)		
EXTERNAL STANDARD	0.076	14:32
X _[1] = 0.0766 (-0.0014) (0.0020)		
BLANK TEST	0.000	14:33
SUBJECT SAMPLE	INTERFERENCE	14:34
X _[1] = 0.1148 (-0.0270) (0.0007)		



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100342

Date: 09/19/2014
 Time: 14:39:33

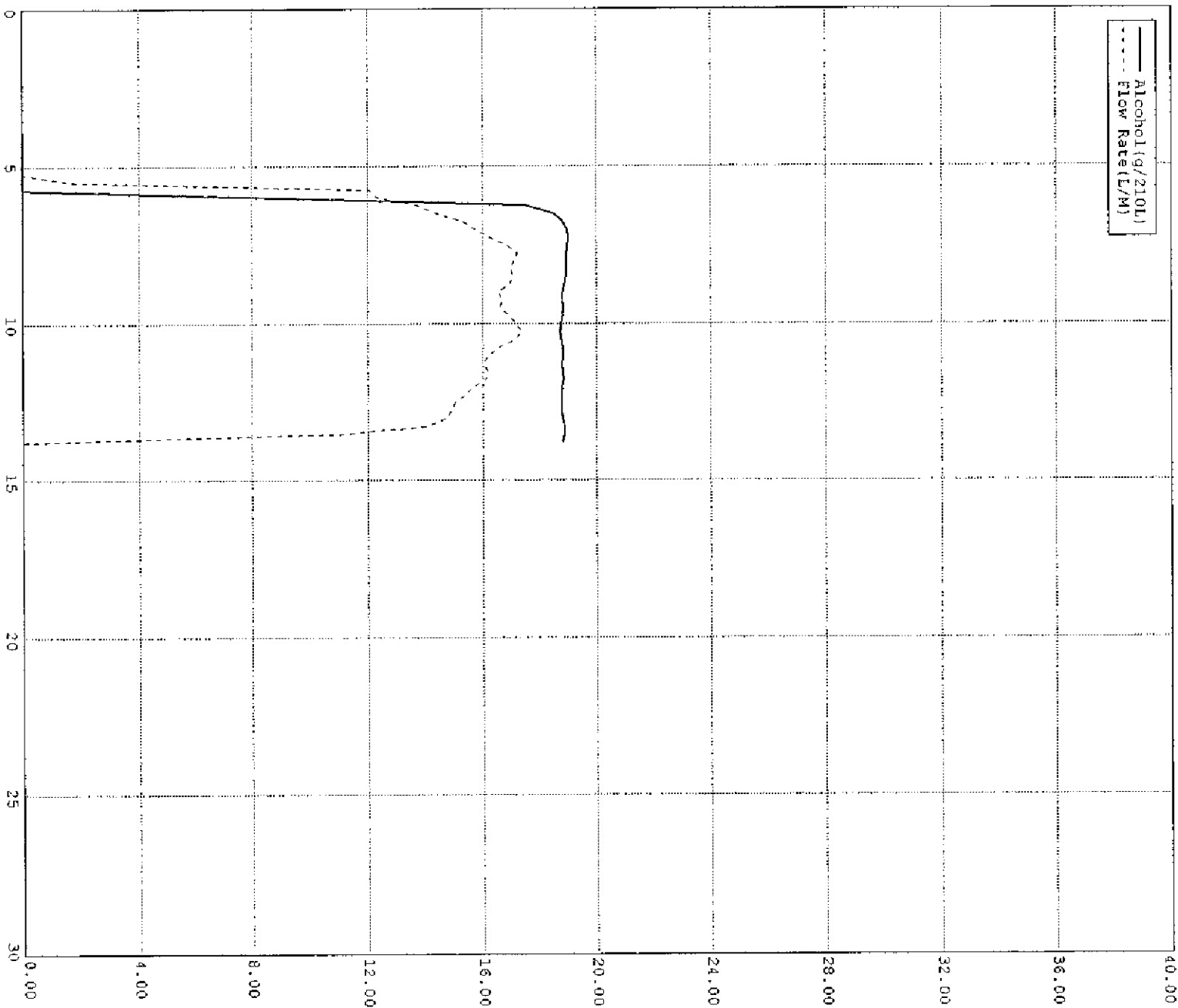
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:45
INTERNAL STANDARD	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:46
Xg = 0.092 (0.67%)		
EXTERNAL STANDARD	0.076	14:46
X[1] = 0.0763 (-0.0017)	(0.0017)	
BLANK TEST	0.000	14:47
SUBJECT SAMPLE (Vol=2.10L)	0.095	14:47
X[1] = 0.0950 (-0.0007)	(-0.0002)	
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.077	14:48
X[1] = 0.0771 (-0.0019)	(0.0013)	
BLANK TEST	0.000	14:49



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100342

Date: 09/22/2014
 Time: 08:17:50

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

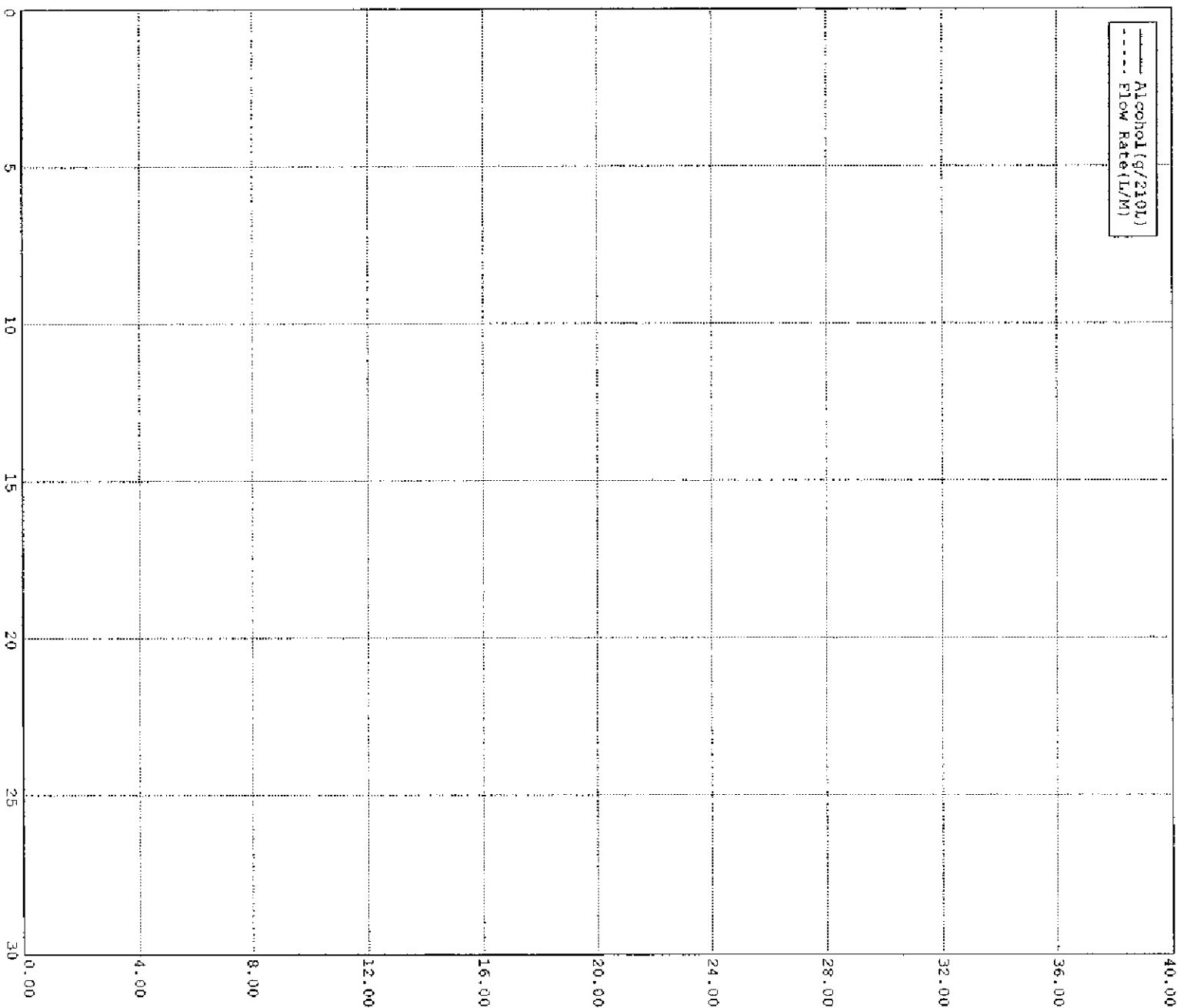
OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.31: 0.078
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

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

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAWASTER dmt: 100342

Date: 09/22/2014
Time: 08:46:12

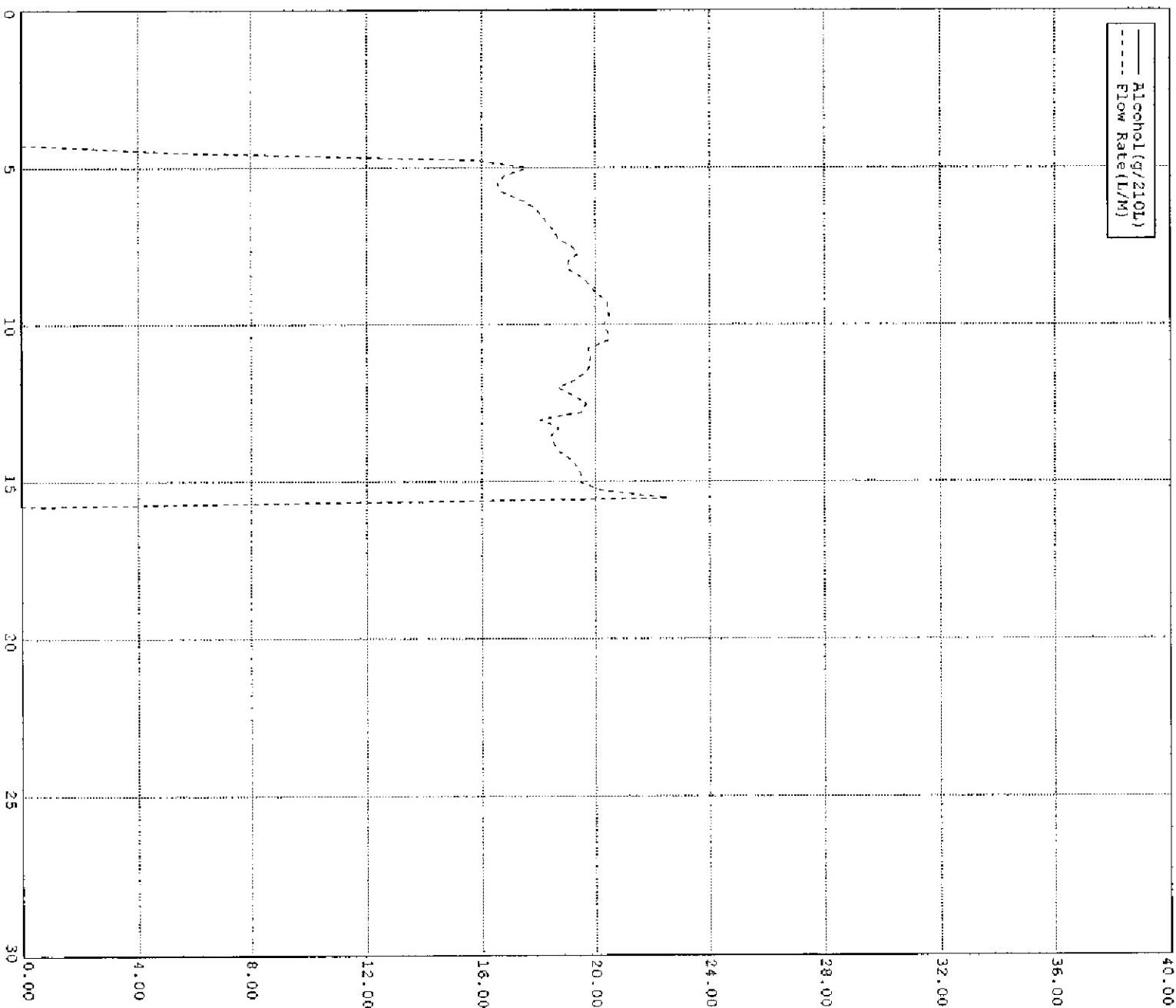
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7134

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	08:48
BLANK TEST	0.000	08:48
INTERNAL STANDARD	0.077	08:48
EXTERNAL STANDARD	0.000	08:49
BLANK TEST	0.000	08:50
SUBJECT SAMPLE	0.000	08:51
BLANK TEST	0.078	08:51
EXTERNAL STANDARD	0.000	08:52
BLANK TEST	0.000	08:52



Final page for report

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10/13/2014