

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 2/2/2015
Effective: 2/2/2015

Version: DMCEF 2015 R0
Status: Active

Instrument S/N 100688 Analyst CRF Start Date 4/27/15

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 1.5 L (1.3L to 1.7L)

5. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 02915020A2 Exp 3/5/17
- ii. 0.040g/210L Mnf ILMO Lot 02915040A3 Exp 3/5/17
- iii. 0.080g/210L Mnf ILMO Lot 09214080A2 Exp 5/1/16
- iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17
- v. 0.200g/210L Mnf Guth Lot 13220 Exp 8/5/15
 1. Simulator S/N SD1200 Date Calibrated 1/20/15
- vi. 0.300g/210L Mnf Guth Lot 14270 Exp 12/2/16
 1. Simulator S/N DR6267 Date Calibrated 1/20/15

6. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference
- d. Exceeded attempts

i. Acetone - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16

1. Simulator S/N DR4162 Date Calibrated 1/19/15

ii. Isopropanol - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16

1. Simulator S/N DR4163 Date Calibrated 1/19/15

iii. Negative Control - Mnf Guth Lot 14030 Level 0.100 Exp 1/20/16

1. Simulator S/N DR4178 Date Calibrated 1/19/15

e. RFI

7. Verify stylus is calibrated

8. Reset Options

9. Clear Memory

10. Verification of Calibration

11. Non-Drinking Subject Test (attached)

12. Upload

13. Remove tank prior to shut down

End Date 4/28/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100688

Date: 04/27/2015
Time: 10:28:57

VERSIONS
DMT: 3.00
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 47.8°C PASSED

PUMP INFO
Flow Rate = 4.203 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

Technician Screen

DATAMASTER dmt: 100688

Date: 04/27/2015
Time: 10:41 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 47.6°C

Current Barometer 29.4 in
Volume (Ltr) 1.46

Settings

Lamp: 1.86 V
Bias: 80 V
Cooler: 1.91 V
Chopper: 546 Hz

Voltages (V)

Flow: 1.01 V
Detector: 0.014 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100688

Date: 11/01/2011
Time: 09:18:29

Ca = 0.1000
CAL = 0.974947 0.800 <= CAL < 1.200
b1 = 0.0007 0.0000 <= b1 < 0.0040
b2 = 0.0044 0.0010 <= b2 < 0.0100
b3 = 0.0006 0.0000 <= b3 < 0.0040
Xq = 0.0948 0.0500 <= Xq < 0.2000
a21 = 1.147537 1.050 <= a21 < 1.300
a31 = 0.513077 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100688

Date: 04/27/2015
 Time: 10:58:01

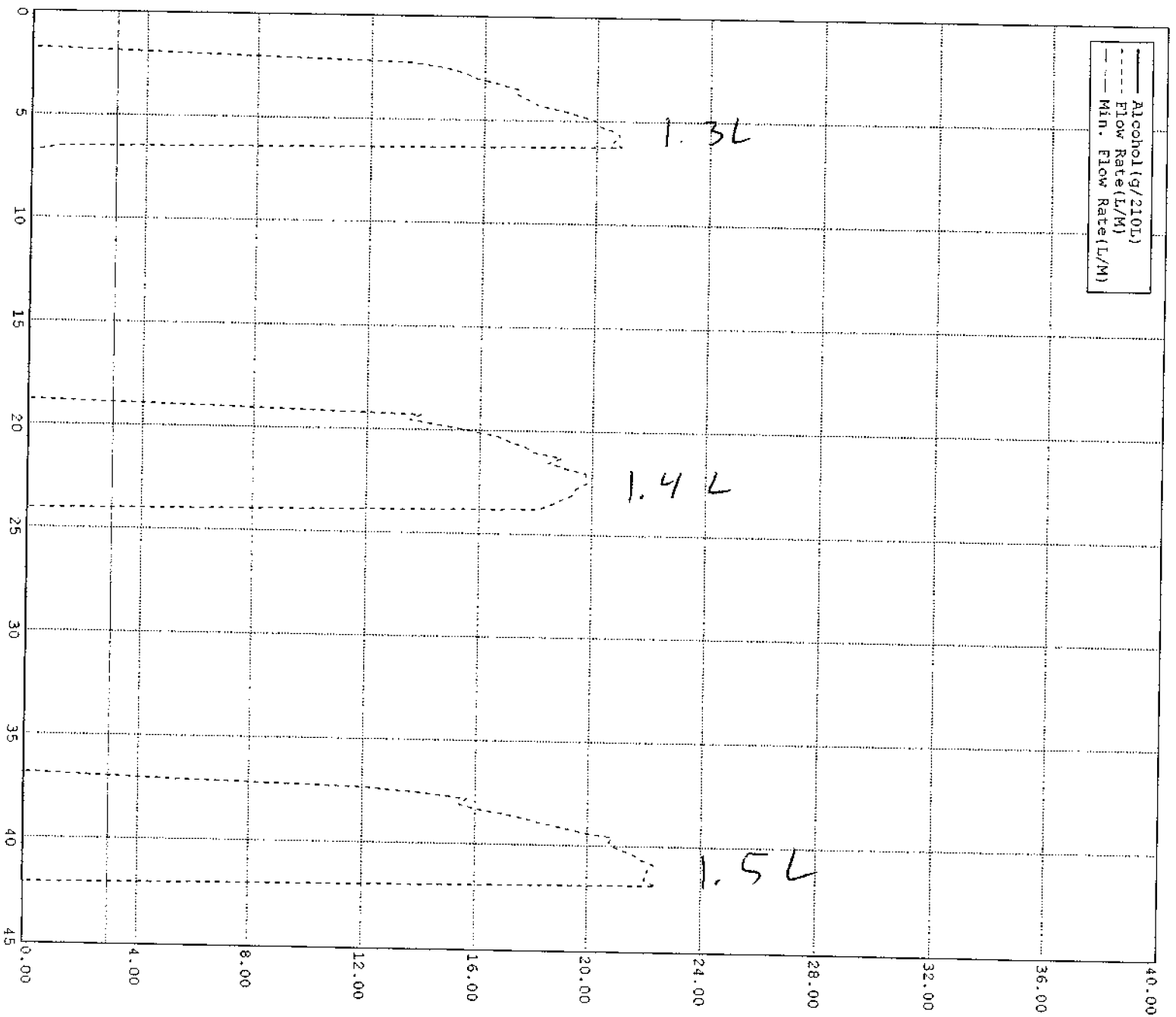
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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: 0.079
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	10:59
BLANK TEST	0.000	10:59
INTERNAL STANDARD	VERIFIED	10:59
EXTERNAL STANDARD	0.078	10:59
BLANK TEST	0.000	11:00
SUBJECT SAMPLE (Vol=1.54L)	0.000	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.078	11:02
BLANK TEST	0.000	11:03



LINEARITY CHECK

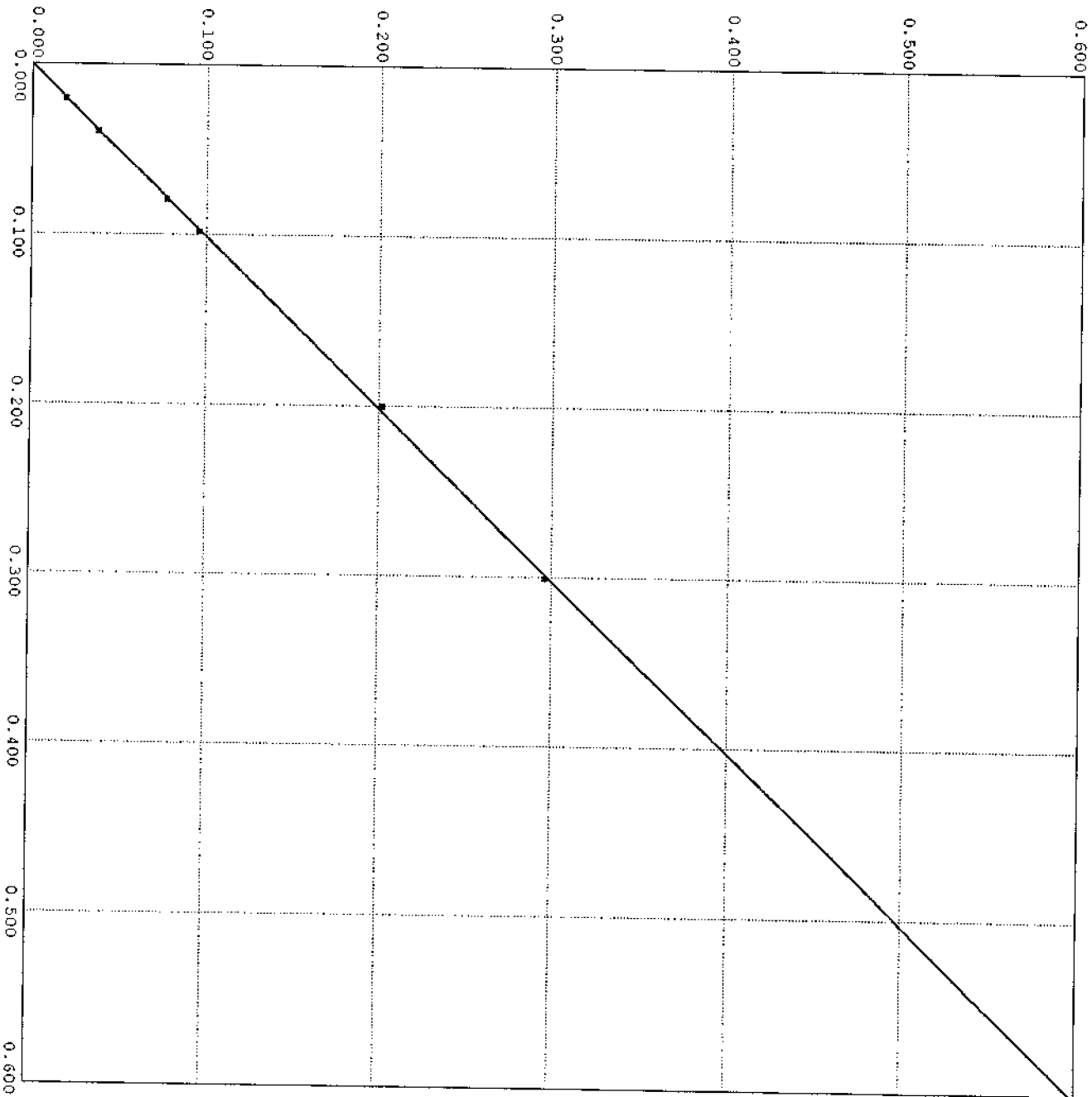
Alaska Department of Public Safety
DATAMASTER dmt: 100688

Date: 04/27/2015
Time: 13:00:37

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0390	0.0000
0.079	0.0780	0.0000
0.098	0.0970	0.0000
0.200	0.2028	0.0008
0.300	0.2970	0.0007

SLOPE = 0.995701
R² = 0.999702



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100688

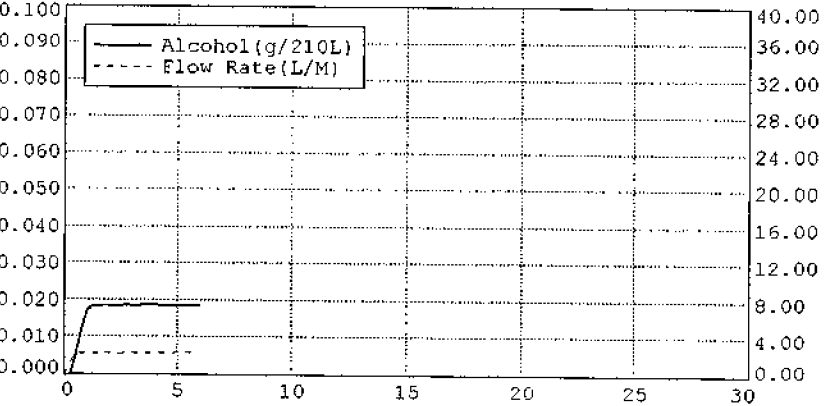
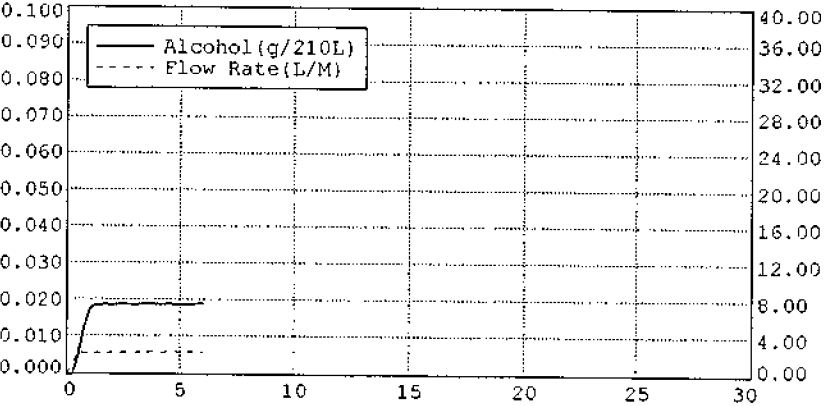
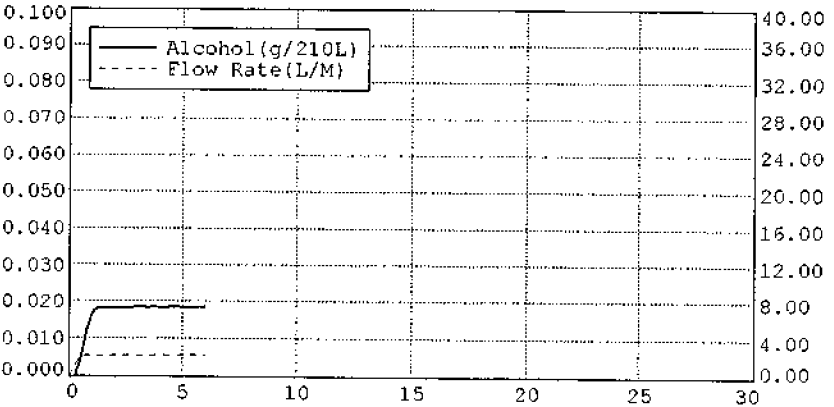
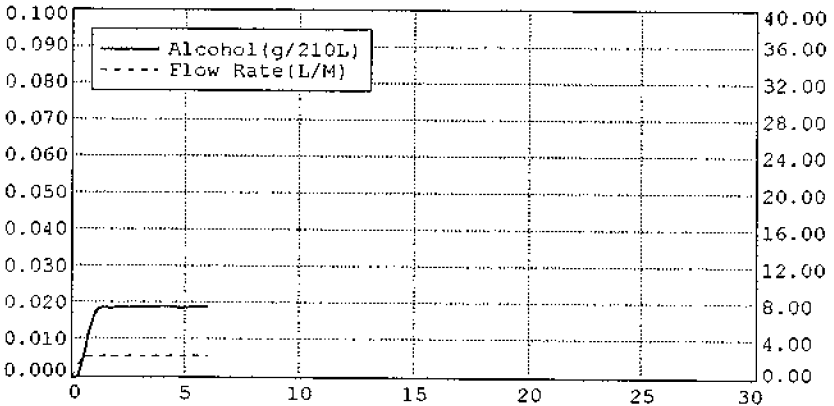
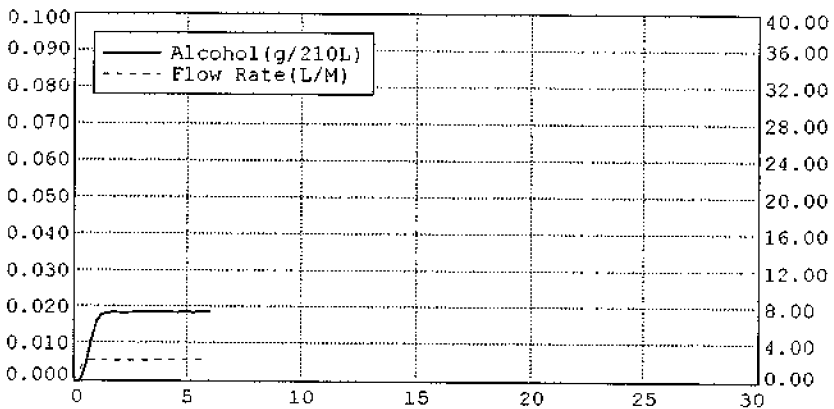
Date: 04/27/2015
 Time: 13:00:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.45: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 917 psi

BLANK TEST	0.000	13:02
INTERNAL STANDARD	VERIFIED	13:02
EXTERNAL STANDARD	0.020	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.020	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.020	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.020	13:06
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.020	13:07
BLANK TEST	0.000	13:07

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100688

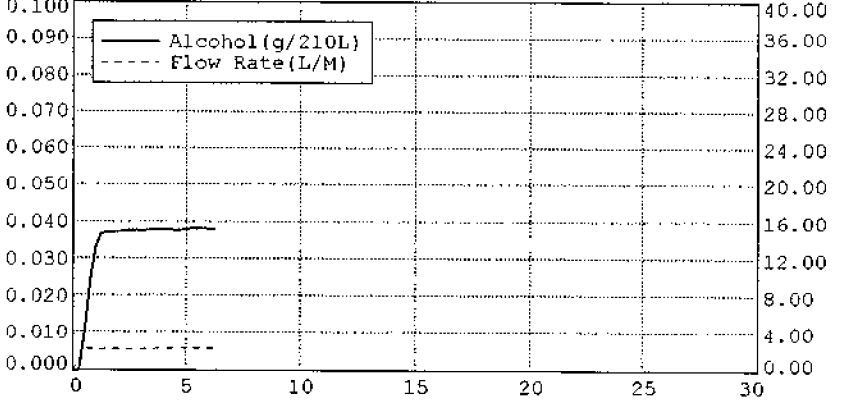
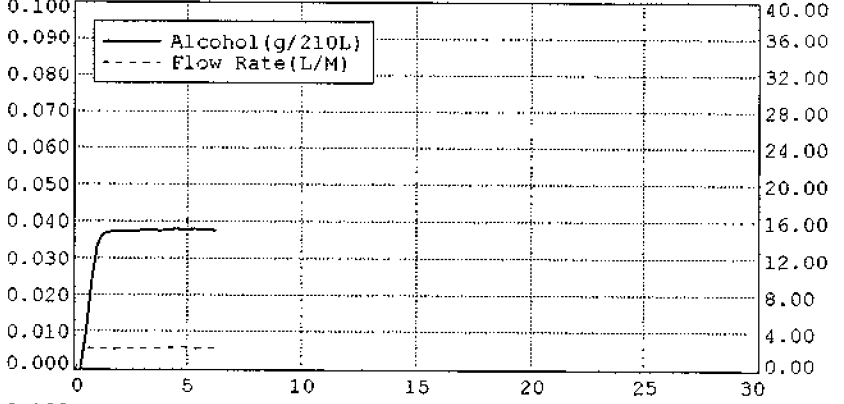
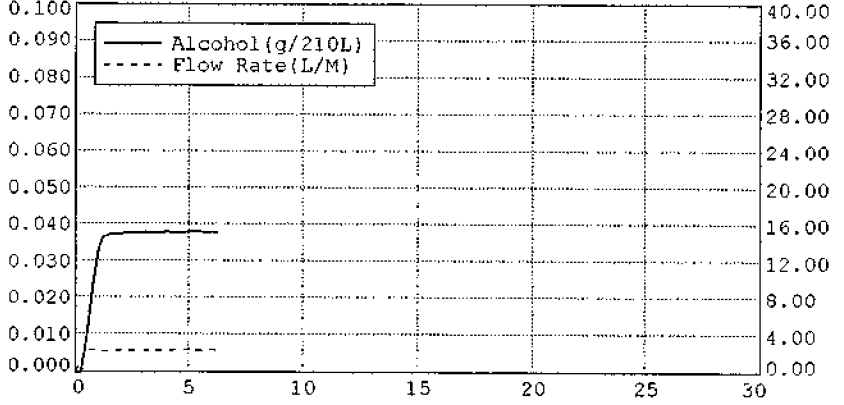
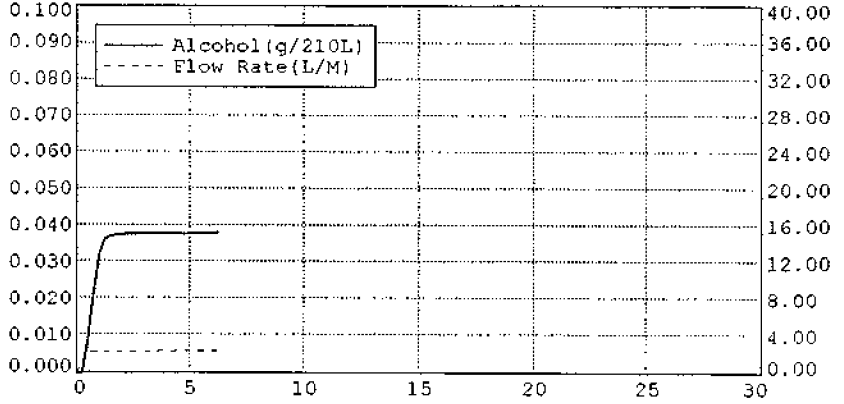
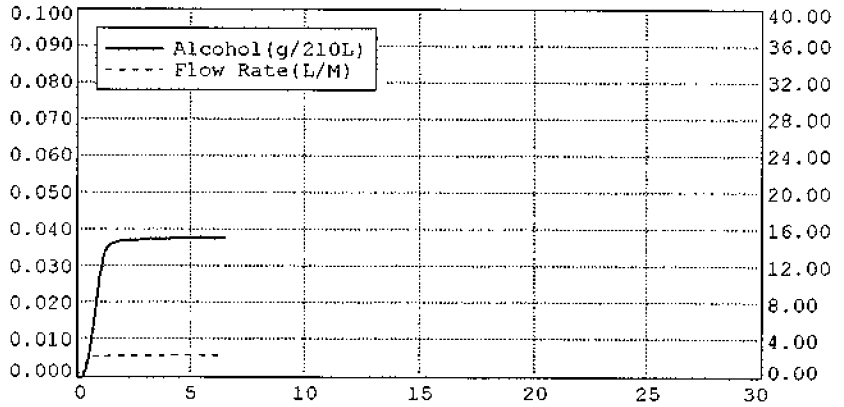
Date: 04/27/2015
 Time: 13:09:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.45: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 984 psi

BLANK TEST	0.000	13:10
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.039	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.039	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.039	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.039	13:14
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.039	13:15
BLANK TEST	0.000	13:16

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100688

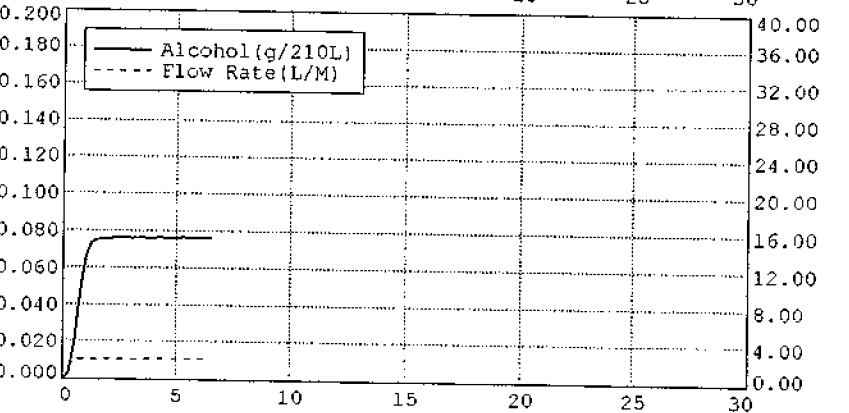
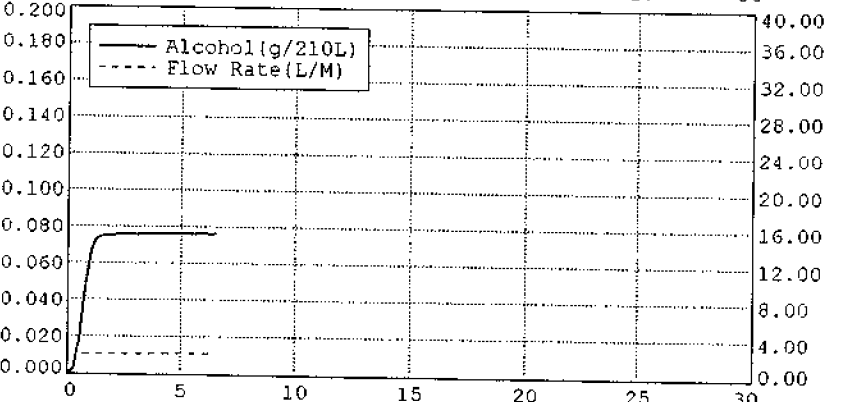
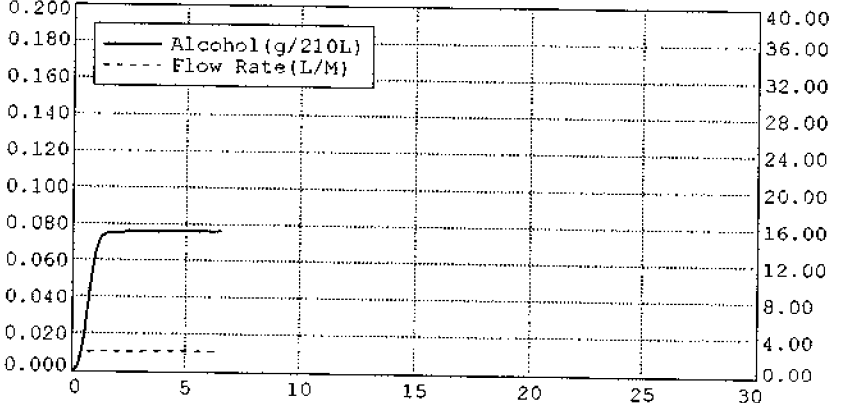
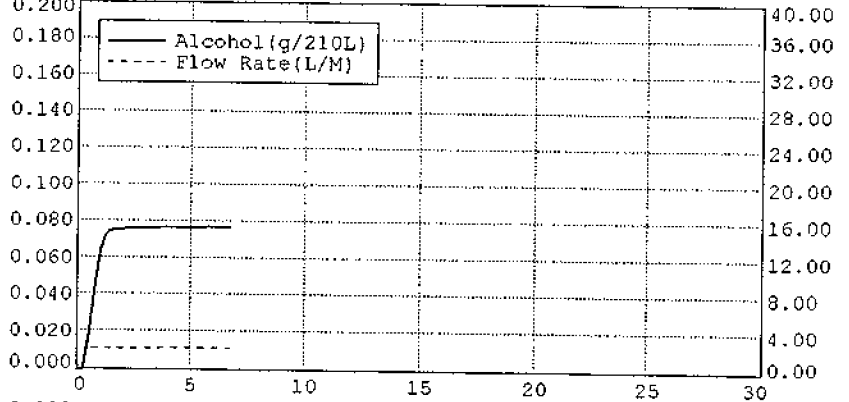
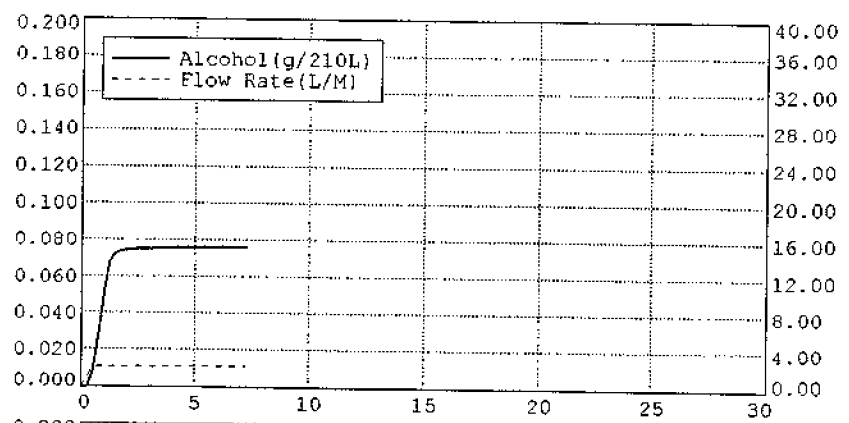
Date: 04/27/2015
 Time: 13:18:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.45: 0.079
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016
 TANK PRESSURE: 848 psi

BLANK TEST	0.000	13:19
INTERNAL STANDARD	VERIFIED	13:19
EXTERNAL STANDARD	0.078	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.078	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.078	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.078	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.078	13:23
BLANK TEST	0.000	13:24

Average = 0.0780
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100688

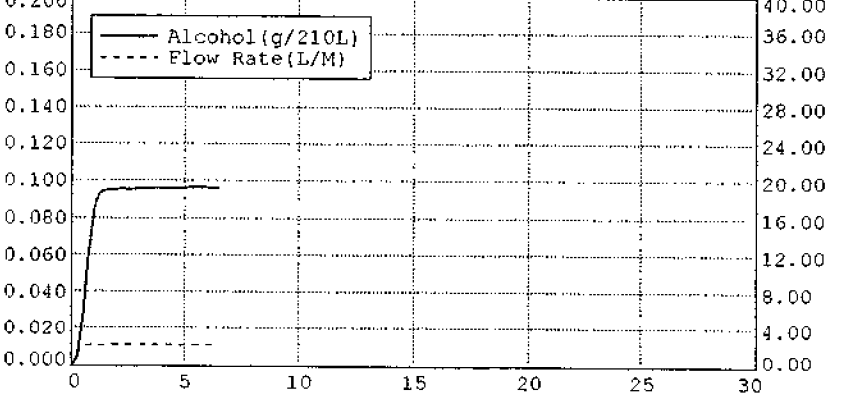
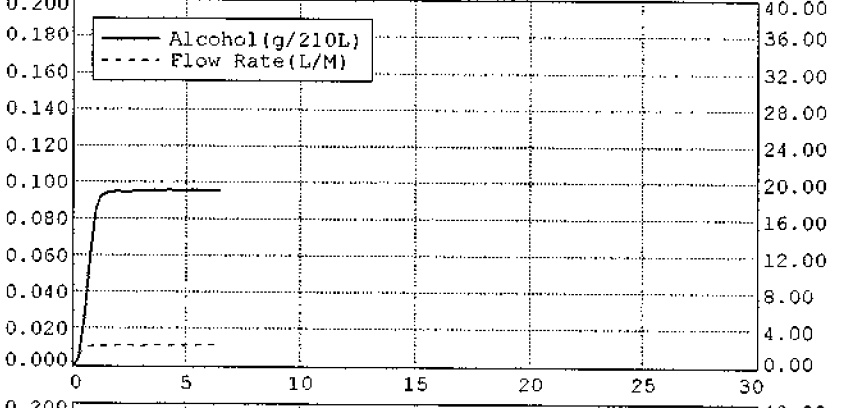
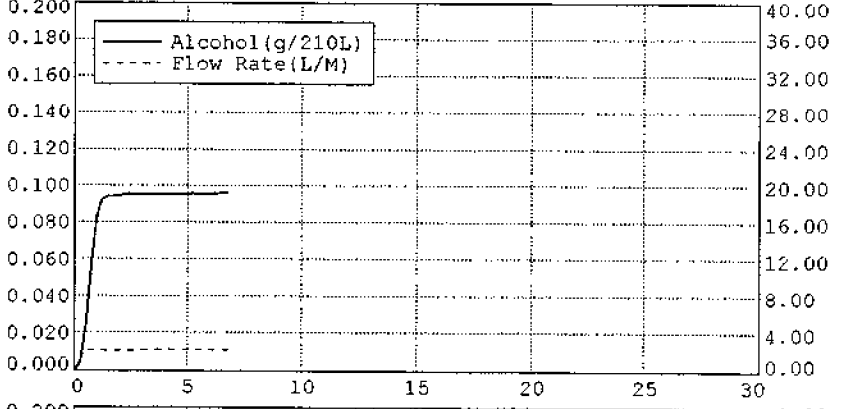
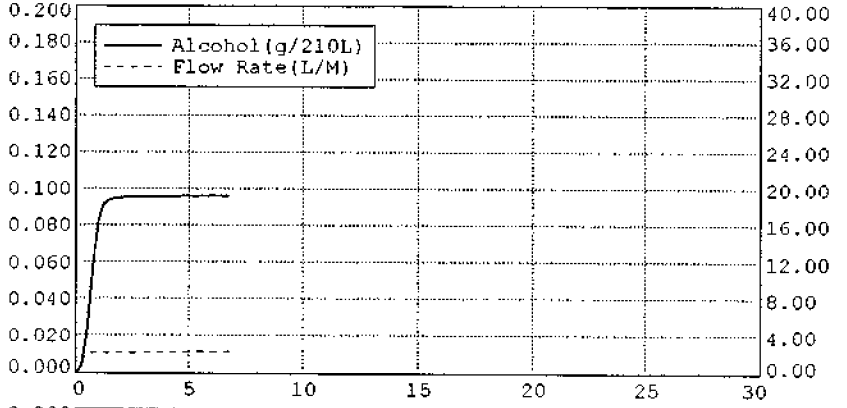
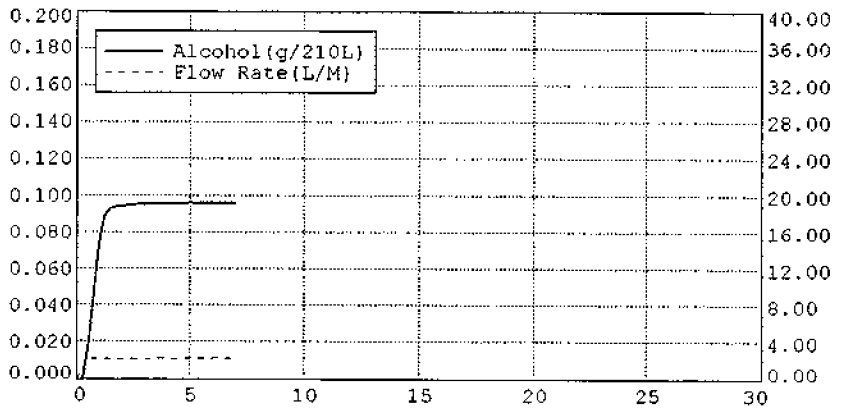
Date: 04/27/2015
 Time: 13:25:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.45: 0.098
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 936 psi

BLANK TEST	0.000	13:26
INTERNAL STANDARD	VERIFIED	13:27
EXTERNAL STANDARD	0.097	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.097	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.097	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.097	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.097	13:31
BLANK TEST	0.000	13:32

Average = 0.0970
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100688

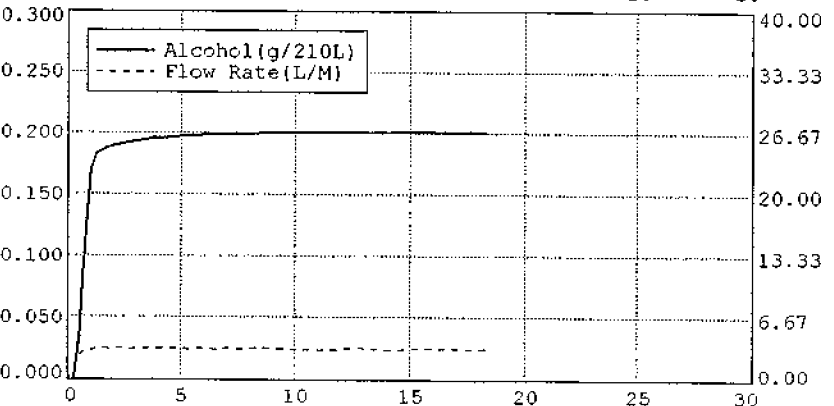
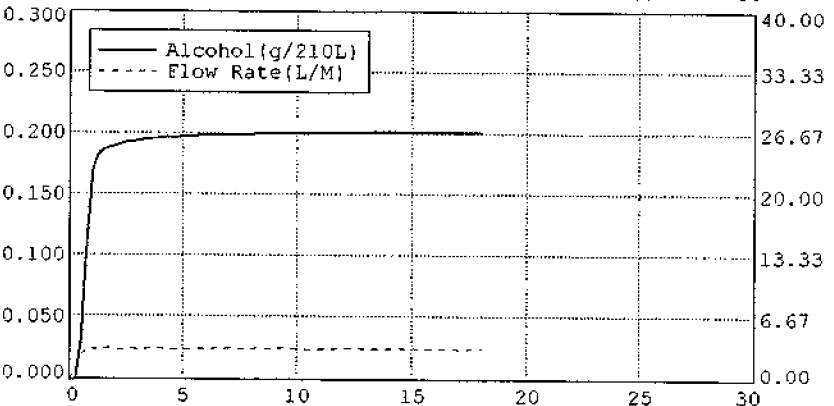
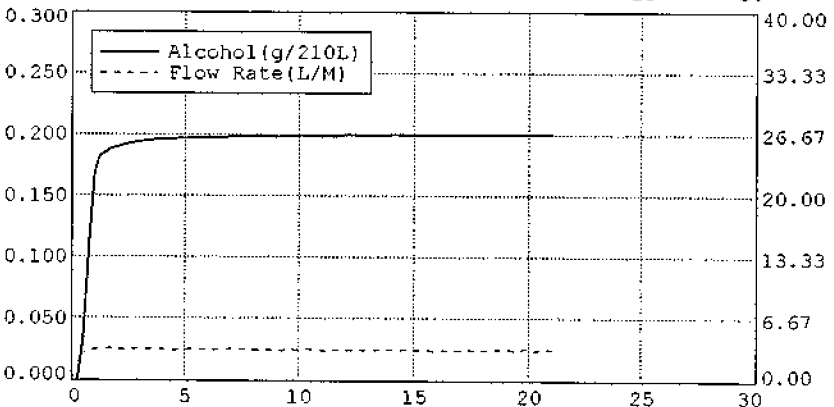
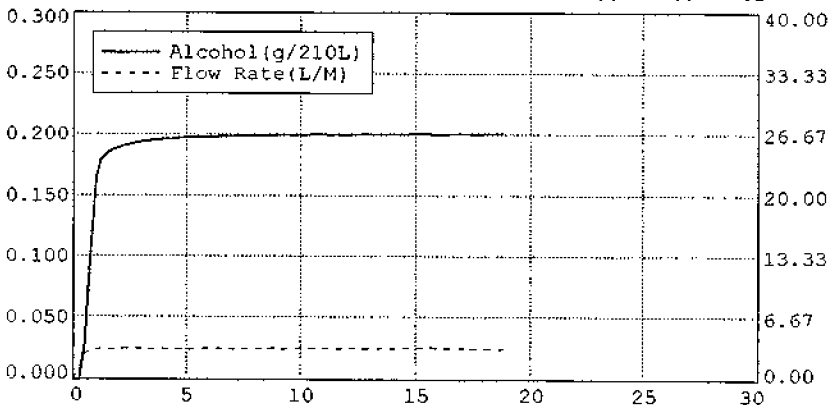
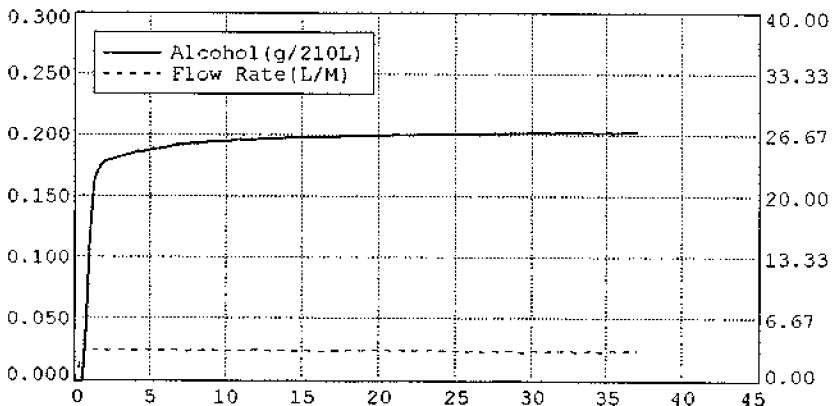
Date: 04/27/2015
 Time: 13:34:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 13220
 EXPIRATION: 08/05/2015

BLANK TEST	0.000	13:35
INTERNAL STANDARD	VERIFIED	13:35
EXTERNAL STANDARD	0.204	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.202	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.202	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.203	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.203	13:41
BLANK TEST	0.000	13:42

Average = 0.2028
 Std Dev = 0.0008



LINEARITY CHECK: Control Test 6

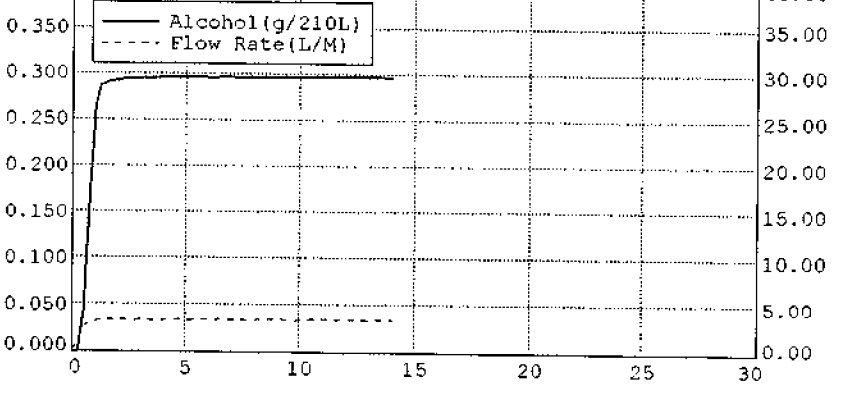
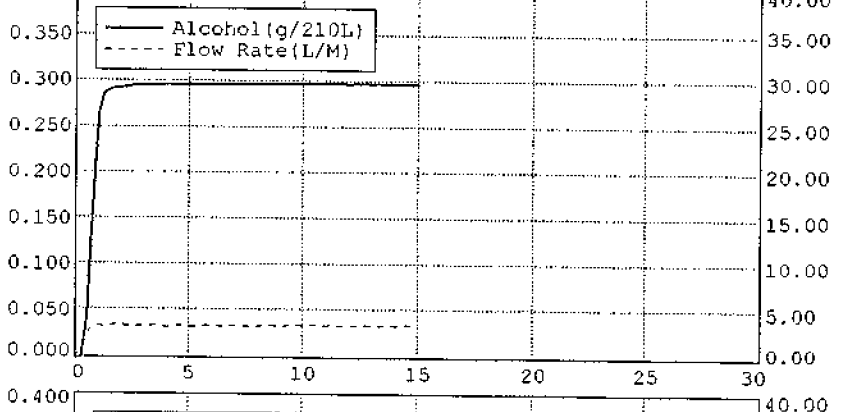
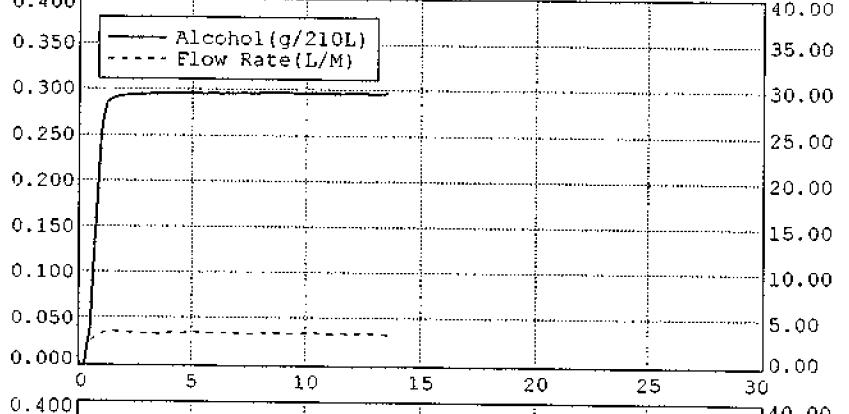
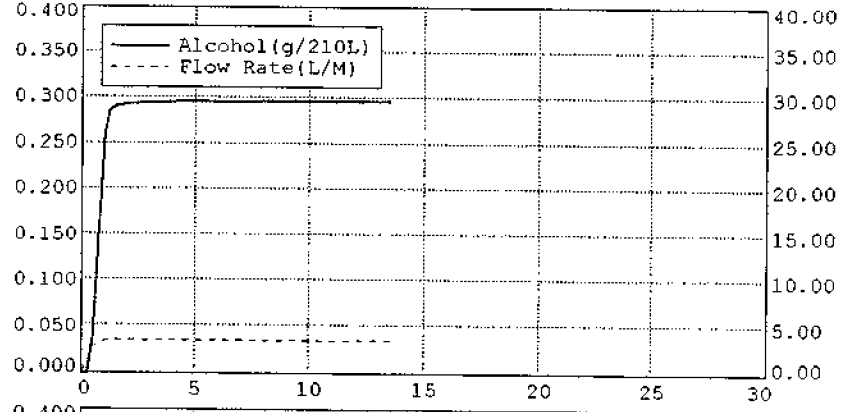
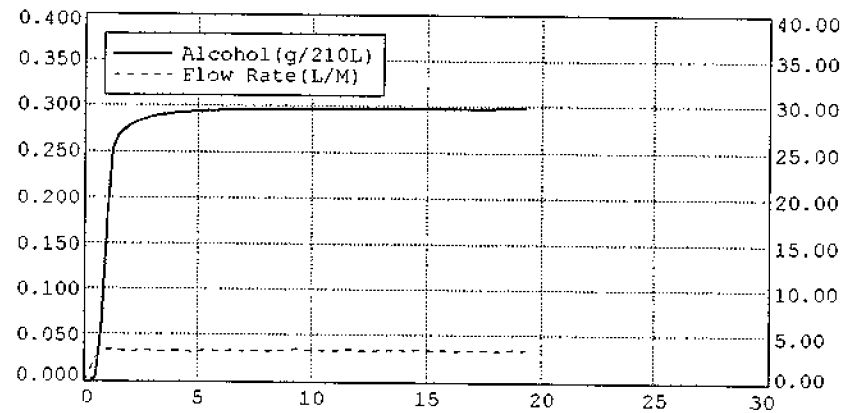
Alaska Department of Public Safety
 DATAMASTER dmt: 100688

Date: 04/27/2015
 Time: 13:44:29

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 14270
 EXPIRATION: 12/02/2016

BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:45
EXTERNAL STANDARD	0.298	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.296	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.297	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.297	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.297	13:51
BLANK TEST	0.000	13:52

Average = 0.2970
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100688

Date: 04/27/2015
 Time: 14:37:09

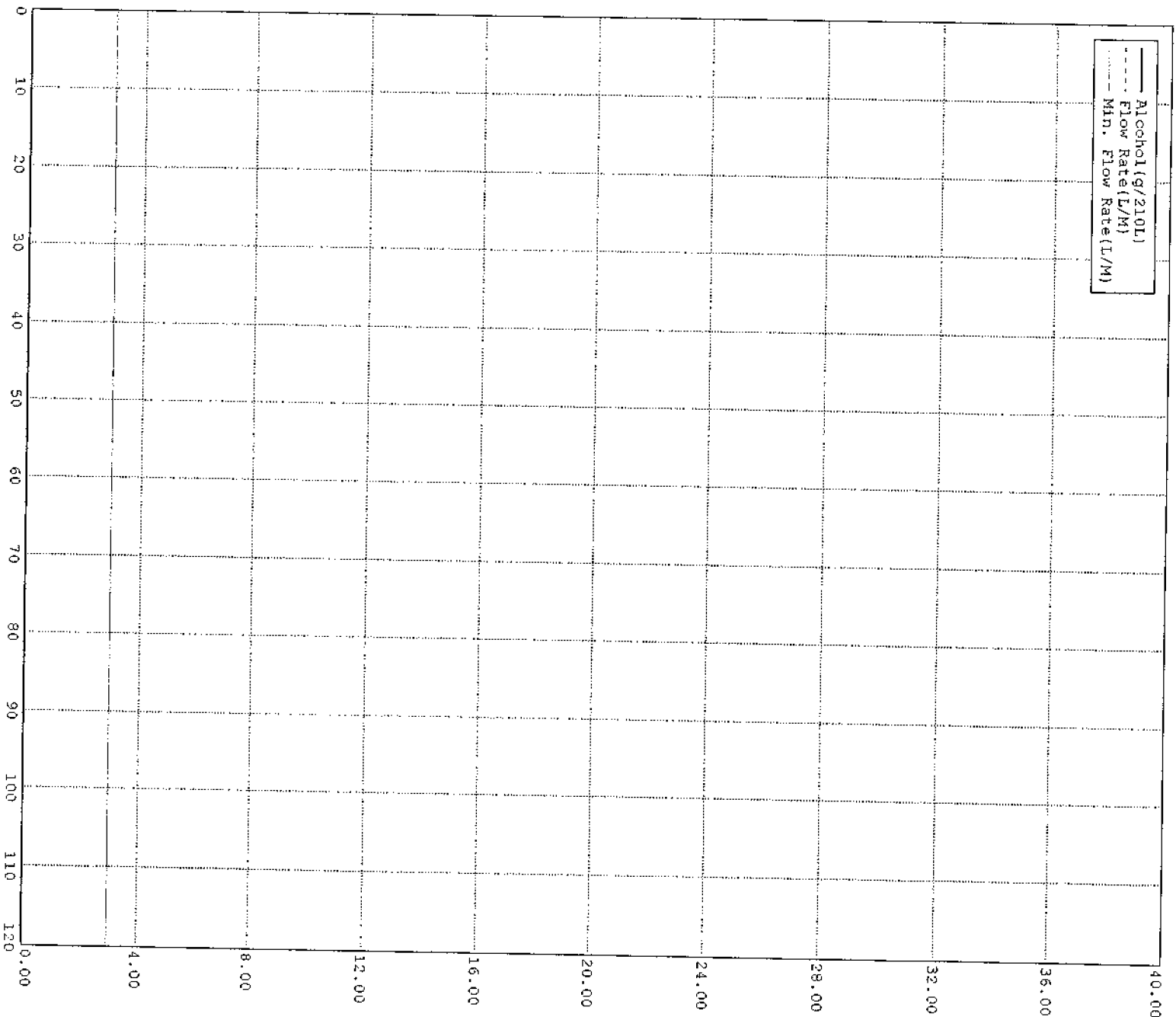
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.45: 0.079
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	14:38
BLANK TEST	0.000	14:38
INTERNAL STANDARD	VERIFIED	14:38
EXTERNAL STANDARD	0.077	14:38
BLANK TEST	0.000	14:39
SUBJECT SAMPLE	INCOMPLETE	14:41



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100688

Date: 04/27/2015
Time: 14:49:22

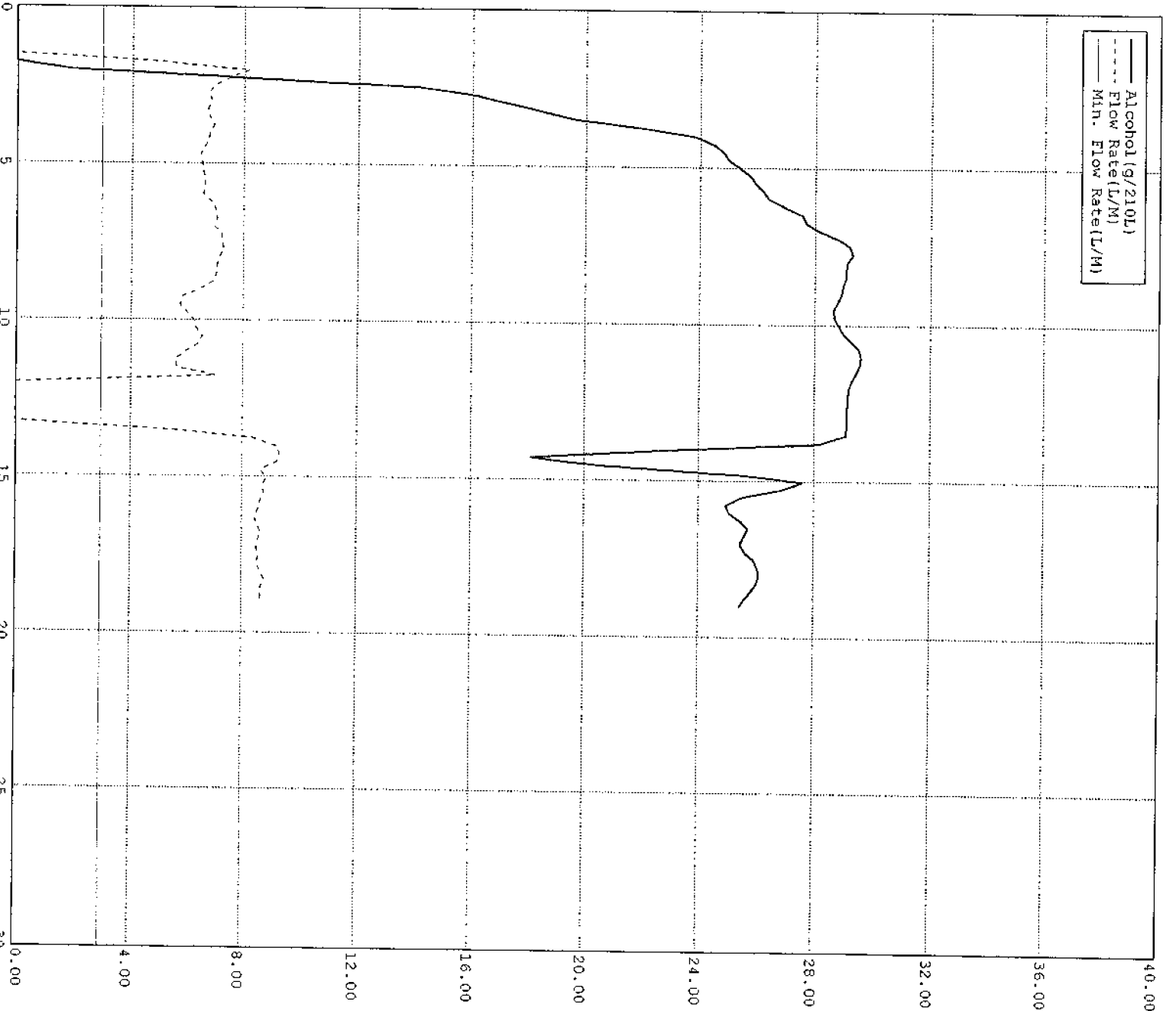
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MOUTH ETOH
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.079
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	14:52
BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:52
EXTERNAL STANDARD	0.078	14:53
BLANK TEST	0.000	14:53
SUBJECT SAMPLE	INVALID	14:54



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100688

Date: 04/27/2015
Time: 15:34:09

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

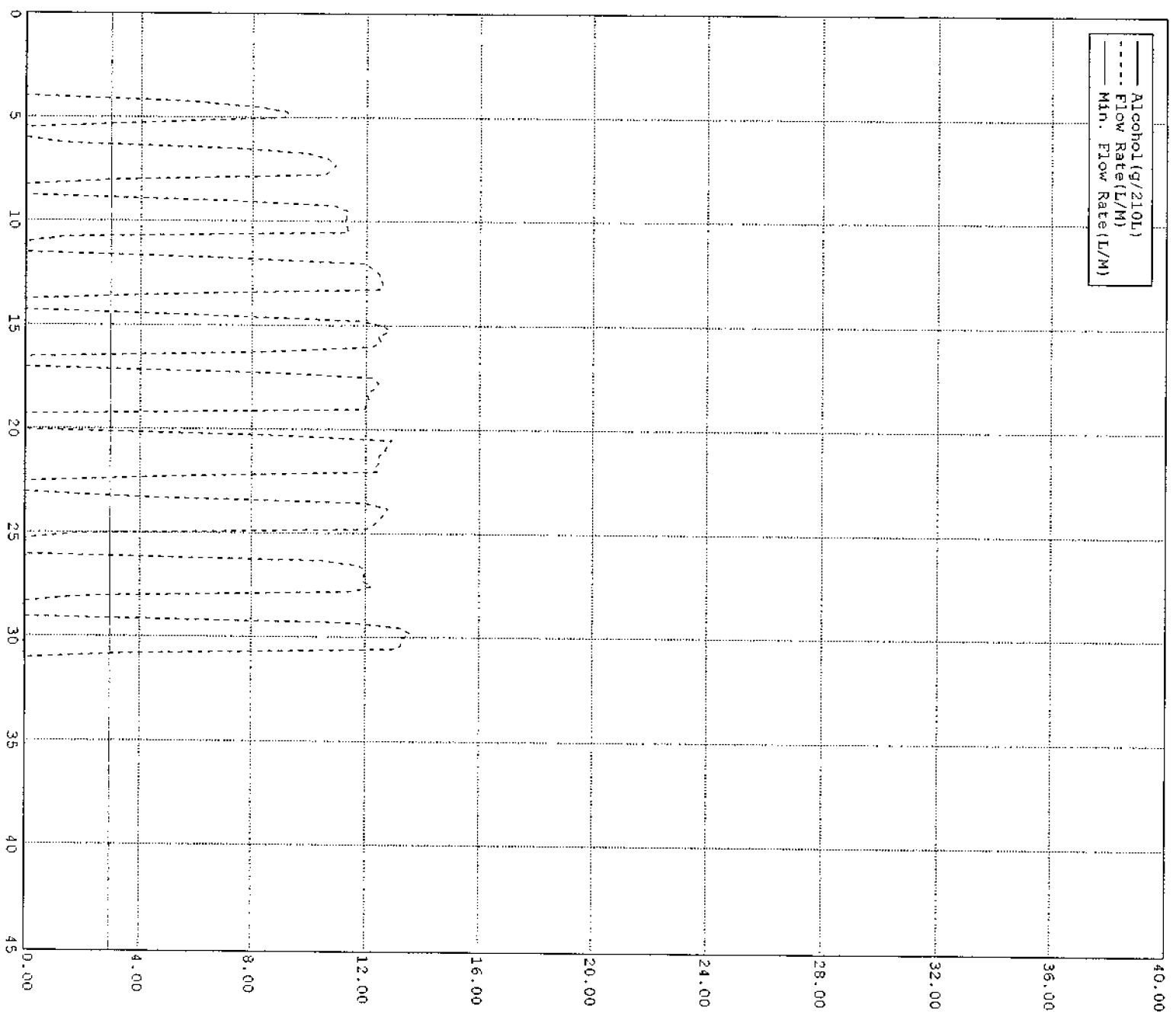
OPERATOR NAME:
EXCEEDED ATTEMPTS
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.079
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	15:36
BLANK TEST	0.000	15:36
INTERNAL STANDARD	VERIFIED	15:36
EXTERNAL STANDARD	0.078	15:36
BLANK TEST	0.000	15:37
SUBJECT SAMPLE	XXX	15:38

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100688

Date: 04/27/2015
Time: 14:57:03

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE ACETONE
OPERATOR'S #: XXXX

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

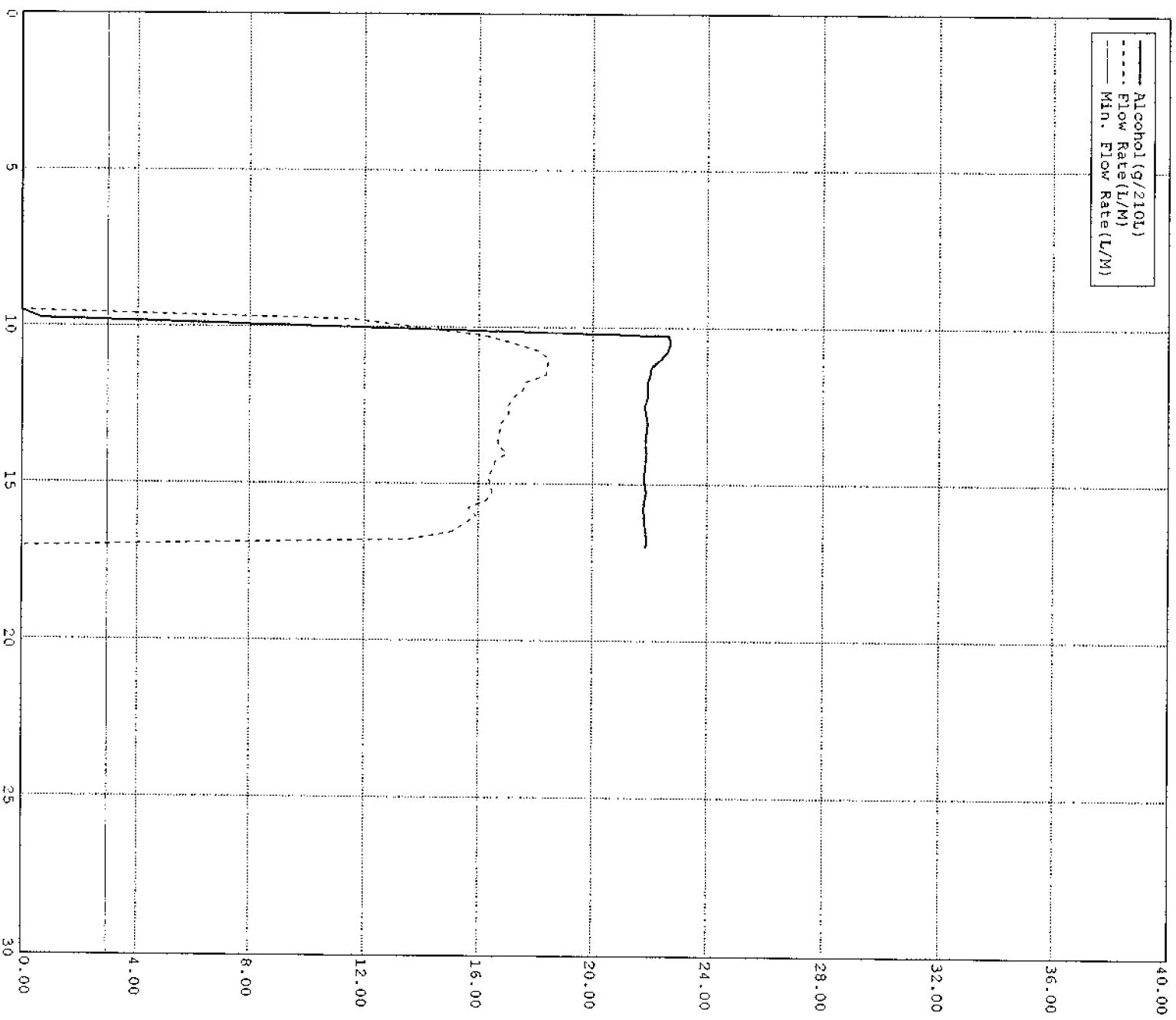
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.079
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	14:59
BLANK TEST	0.000	14:59
INTERNAL STANDARD	VERIFIED	14:59
Xq = 0.096 (1.20%)	0.077	14:59
EXTERNAL STANDARD	X[1] = 0.0769 (0.0007)	0.0030
BLANK TEST	0.000	15:00
SUBJECT SAMPLE	X[1] = 0.1101 (-0.0132)	0.0037

Interference Detected

Filter 2 Avg. = 0.0006
Filter 3 Avg. = 0.0034

CNF 4/28/15



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100688

Date: 04/27/2015
Time: 15:06:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

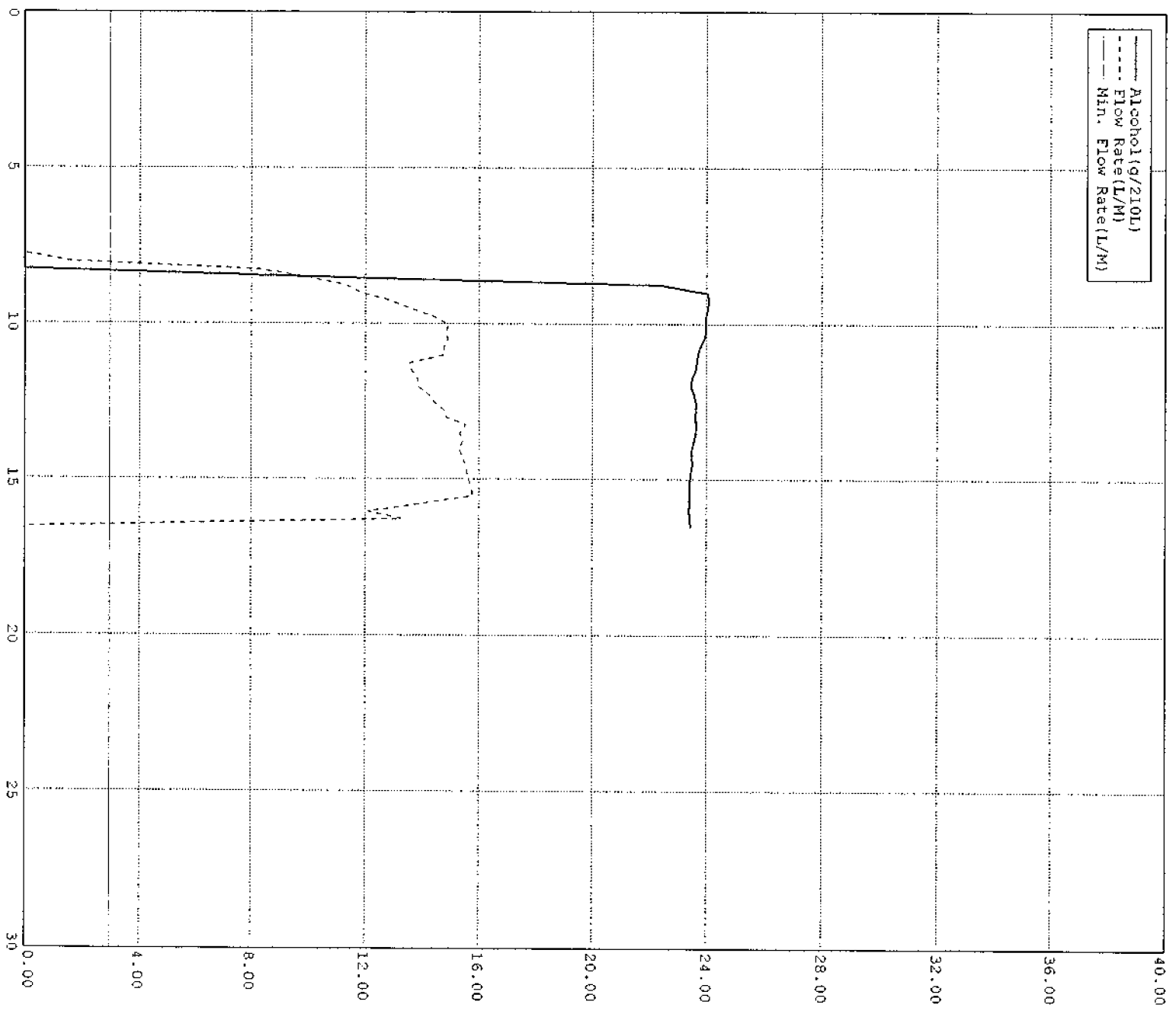
OPERATOR NAME:
INTERFERENCE IPA
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.079
IOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	15:07
BLANK TEST	0.000	15:07
INTERNAL STANDARD	VERIFIED	15:08
Xq = 0.096 (1.57%)		
EXTERNAL STANDARD	0.078	15:08
X[1] = 0.0776 (0.0003)	(0.0037)	
BLANK TEST	0.000	15:09
SUBJECT SAMPLE	XXX	15:09
X[1] = 0.1178 (-0.0199)	(0.0027)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100688

Date: 04/27/2015
Time: 15:14:29

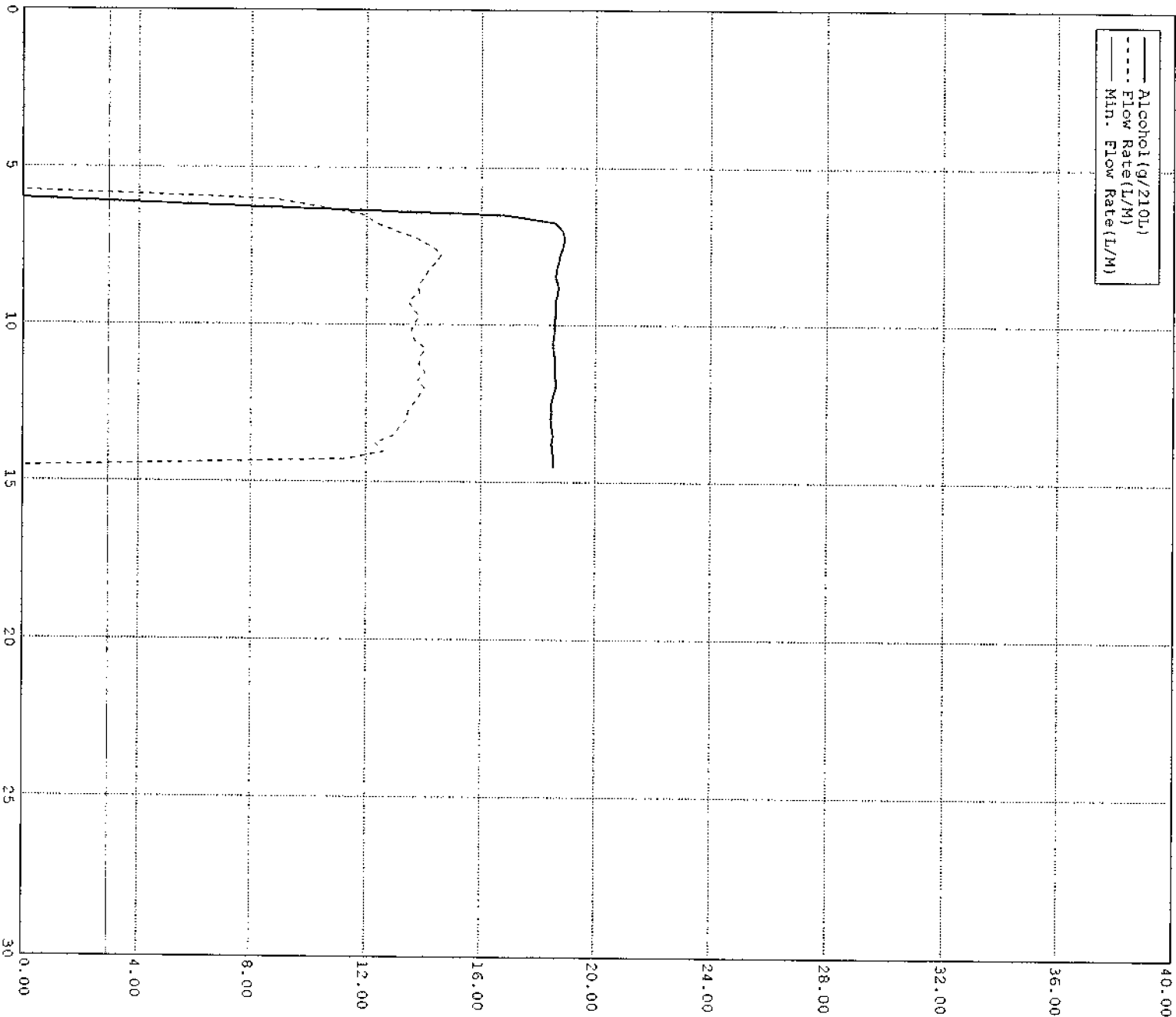
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE NEGATIVE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.079
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	15:16
BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
Xq = 0.097 (2.40%)	0.078	15:16
EXTERNAL STANDARD	0.000	
X[1] = 0.0779 (0.0014)	0.000	
BLANK TEST	0.000	15:17
SUBJECT SAMPLE (Vol=1.89L)	0.093	15:17
X[1] = 0.0934 (0.0008)	0.0020	
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.077	15:18
X[1] = 0.0767 (-0.0001)	0.0027	
BLANK TEST	0.000	15:19



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100688

Date: 04/27/2015
Time: 15:46:18

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

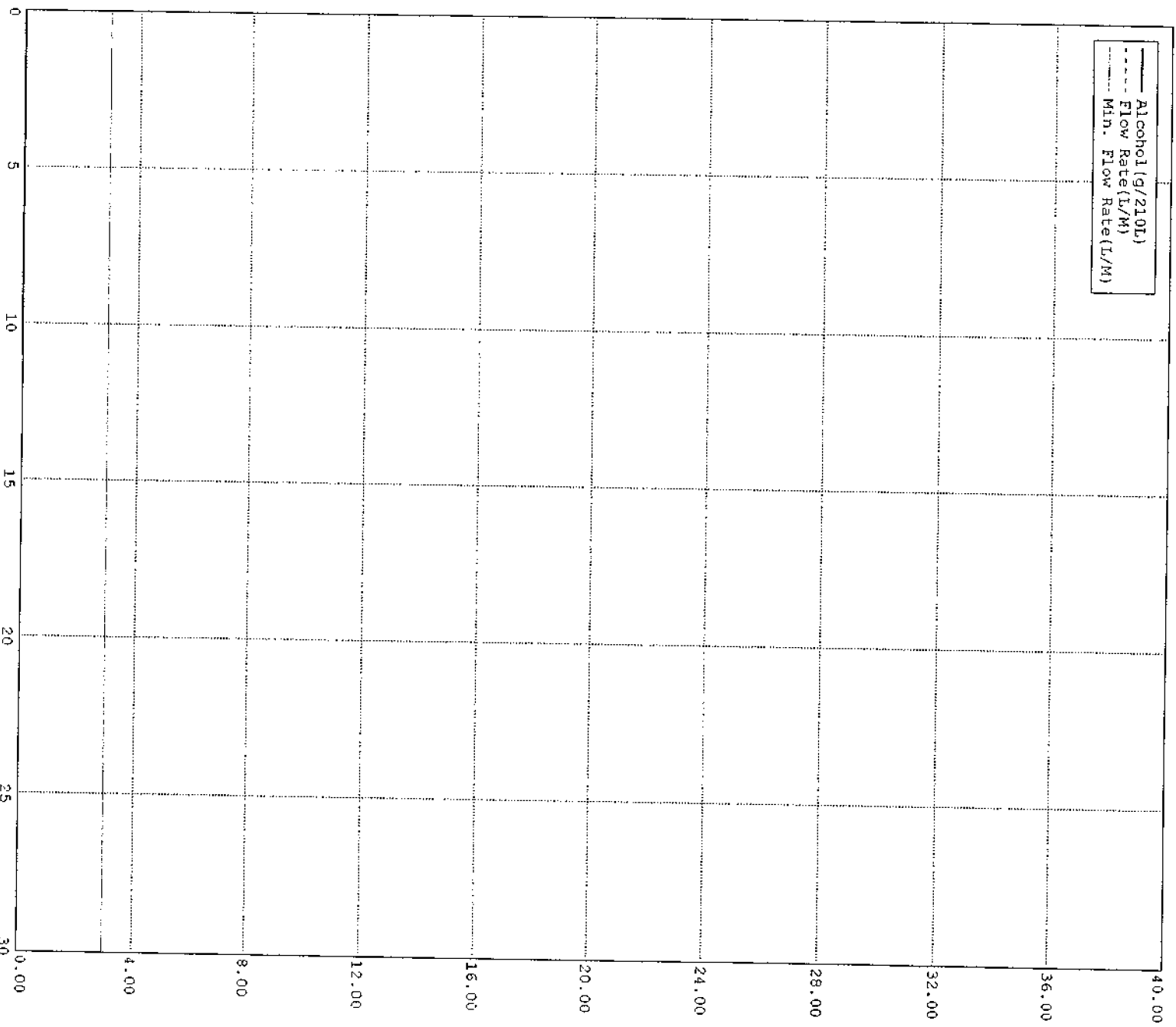
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.44: 0.079
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK
BLANK TEST PASSED 15:48
INTERNAL STANDARD VERIFIED 15:48
EXTERNAL STANDARD 0.078 15:48
BLANK TEST 0.000 15:49

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100688

Date: 04/28/2015
Time: 08:50:00

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 29.26: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK PASSED 08:51
BLANK TEST 0.000 08:51
INTERNAL STANDARD VERIFIED 08:51
EXTERNAL STANDARD 0.077 08:51
BLANK TEST 0.000 08:52
SUBJECT SAMPLE (Vol=2.54IL) 0.000 08:52
BLANK TEST 0.000 08:53
EXTERNAL STANDARD 0.077 08:53
BLANK TEST 0.000 08:54

