

	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form – DMCEF2011R1		
	Issuing Authority – Nita Bolz, Scientific Director		
Approval date: 03/10/11		Effective date: 03/10/11	Archive date: Active

DataMaster DMT Certification Form

Instrument # 100418Analyst Brandi BarnettDate 5/19/11

1. Diagnostic Test (attached)
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp
 - ii. Bias
 - iii. Cooler
 - iv. Chopper Frequency
 - b. Set RFI ☒
 - c. Adjust barometer reading, if needed ☒
 - d. Adjust volume setting, if needed ☒
 - e. Print Technician Screen (attached)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1500 mL ☒
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ☒
 - i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 02/01/2013
 - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013
 - iii. 0.080g/210L Mnf ILMO Lot 02511080A3 Exp 02/01/2013
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2013
 - v. 0.200g/210L Mnf FLMO Lot 07611200A2 Exp 03/01/2013
 - vi. 0.300g/210L Mnf ILMO Lot 07611300A1 Exp 03/01/2013
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/2011
 1. Simulator Calibration Date 10/18/2010 SN DR6267
 - ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/2011
 1. Simulator Calibration Date 08/04/2010 SN SD1202
 - d. RFI ☒
7. Calibrate Stylus ☒
8. Verify card reader is functional ☒
9. Upload ☒
10. Reset Options ☒
11. Non-Drinking Subject Test (attached)

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100418

Date: 05/19/2011
Time: 10:28:54

VERSIONS

DMT: 1.01
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 5.429 L/M	PASSED
-----------------------	--------

DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

INTERNAL STANDARD	PASSED
-------------------	--------

2/10/2013

Technician Screen

DATAMASTER dmt: 100418

Date: 05/19/2011
Time: 10:37 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 47.3°C

Current Barometer 29.7 in
Volume (Ltr) 1.42

Settings

Lamp: 1.83 V
Bias: 79 V
Cooler: 1.71 V
Chopper: 525 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.394 V

3/18/2013

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100418

Date: 05/18/2011
Time: 14:10:12

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca	=	0.1000		
CAL	=	0.984347	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
Xq	=	0.0791	0.0500	<= Xq < 0.2000
a21	=	1.171803	1.050	<= a21 < 1.300
a31	=	0.460593	0.300	<= a31 < 0.800

4/10/08 MB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100418

Date: 05/19/2011
 Time: 10:42:19

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

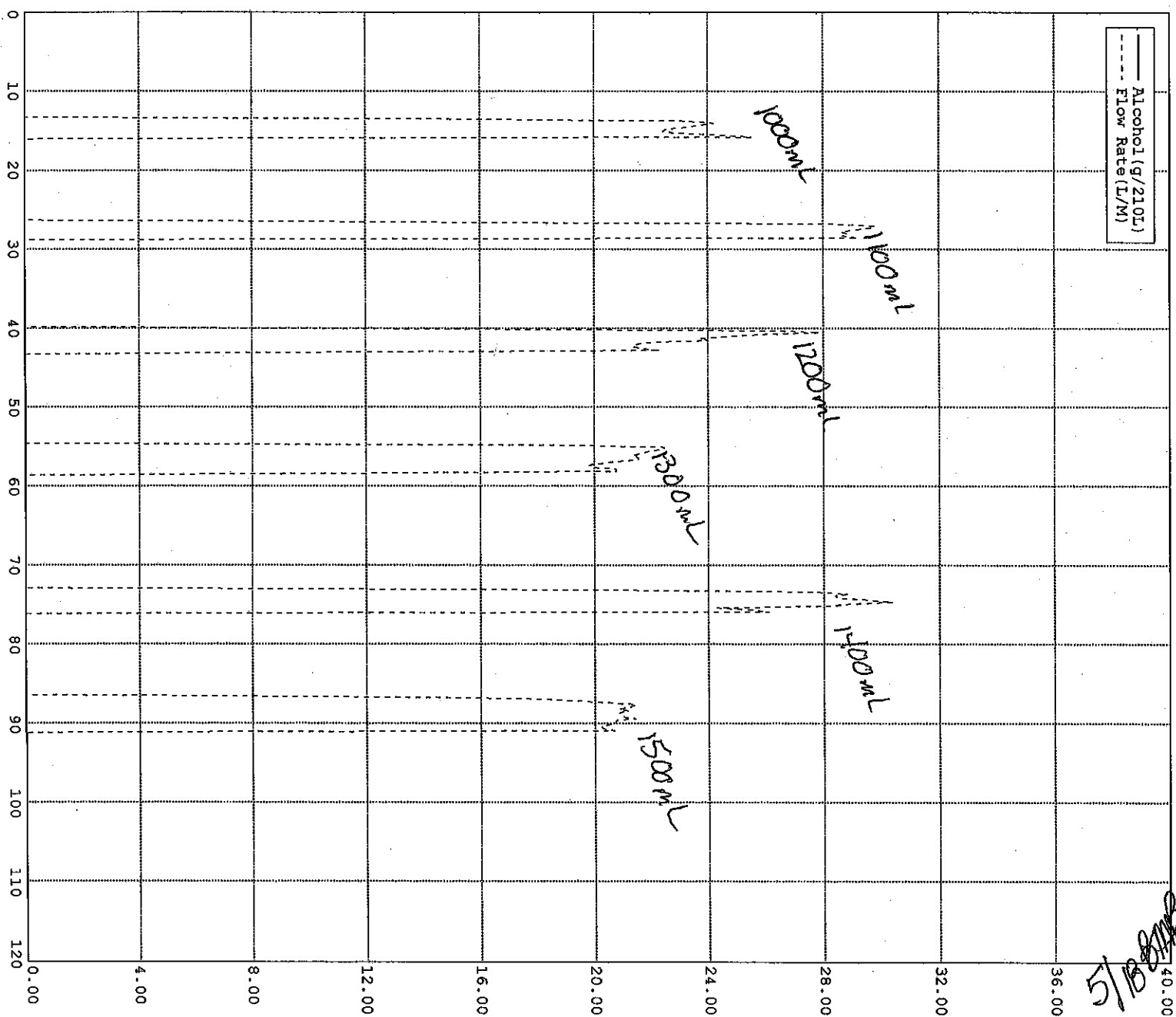
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.72: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:43
BLANK TEST	0.000	10:43
INTERNAL STANDARD	VERIFIED	10:43
EXTERNAL STANDARD	0.080	10:43
BLANK TEST	0.000	10:44
SUBJECT SAMPLE	0.000	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.081	10:47
BLANK TEST	0.000	10:48

BMB



LINEARITY CHECK

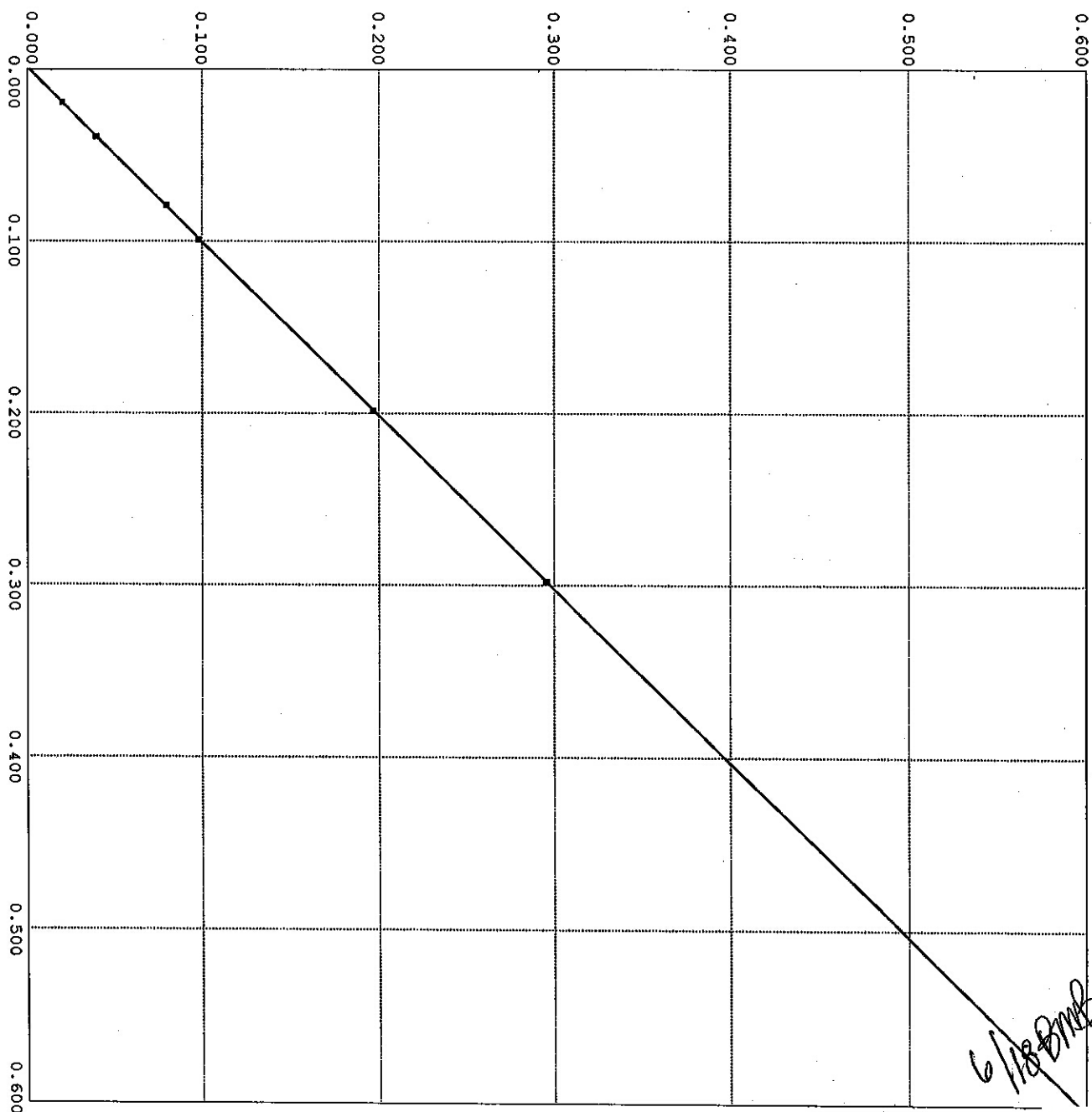
Alaska Department of Public Safety
 DATMASTER dmt: 100418

Date: 05/19/2011
 Time: 10:53:56

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0206	0.0005
0.039	0.0400	0.0000
0.079	0.0802	0.0004
0.099	0.0990	0.0000
0.198	0.1976	0.0009
0.297	0.2962	0.0015

SLOPE = 0.991660
 $R^2 = 0.999993$

LINEARITY CHECK: Control Test 1

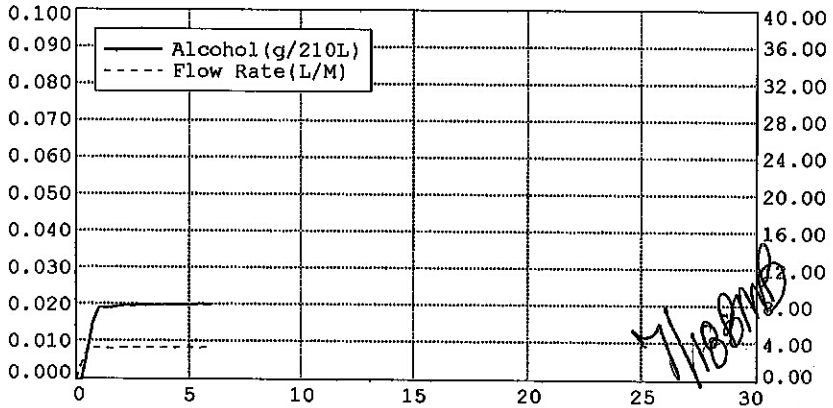
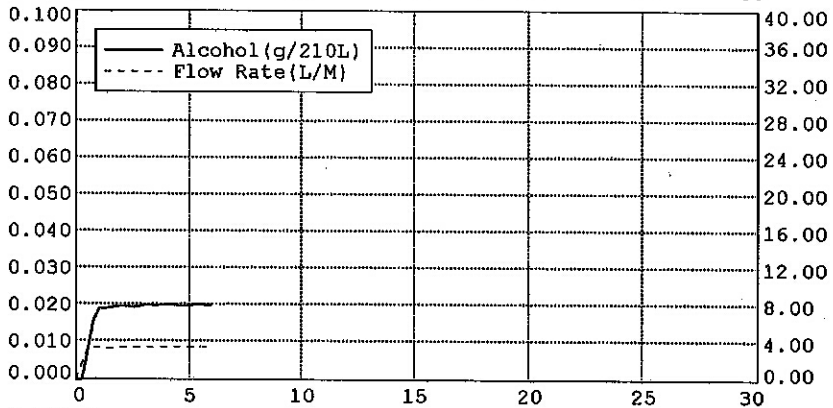
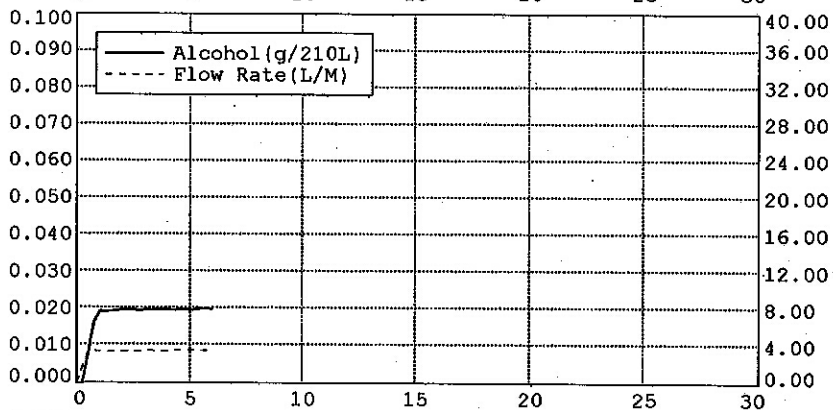
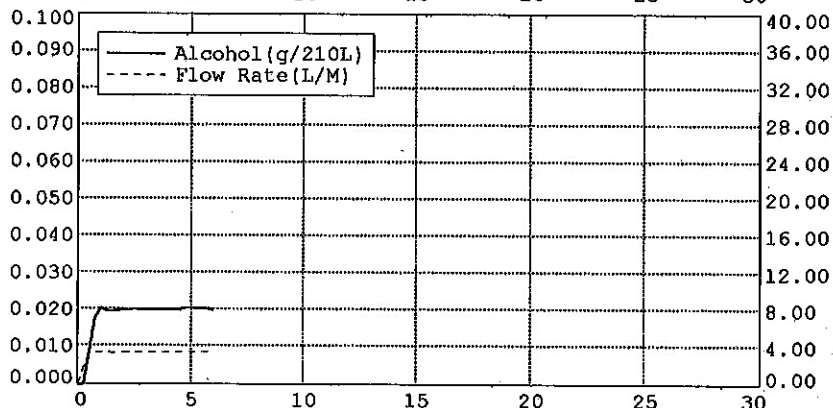
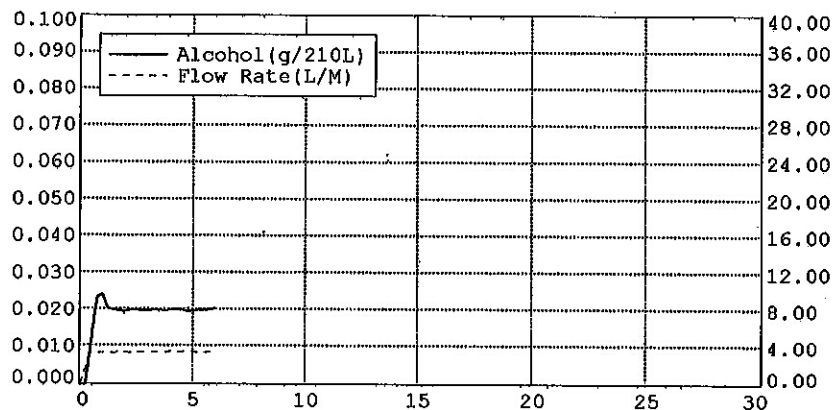
Alaska Department of Public Safety
DATAMASTER dmt: 100418

Date: 05/19/2011
Time: 10:53:58

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.72: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:55
INTERNAL STANDARD	VERIFIED	10:55
EXTERNAL STANDARD	0.021	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.021	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.020	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.020	10:59
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.021	11:00
BLANK TEST	0.000	11:01

Average = 0.0206
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

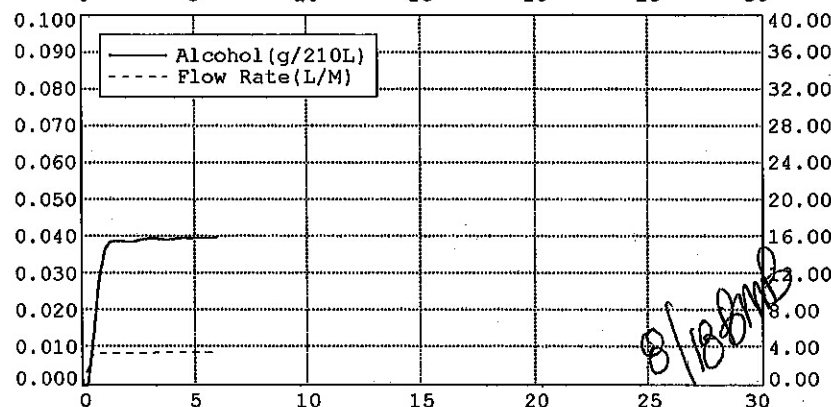
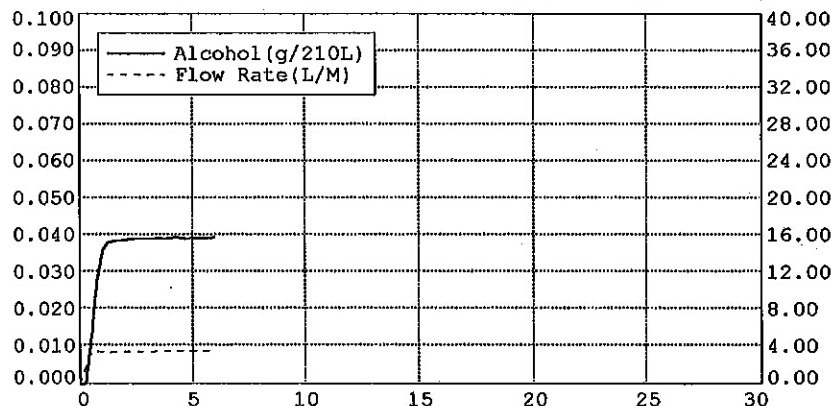
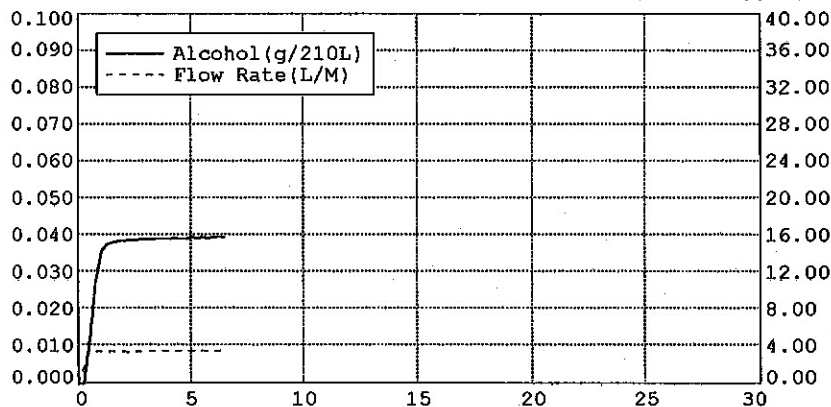
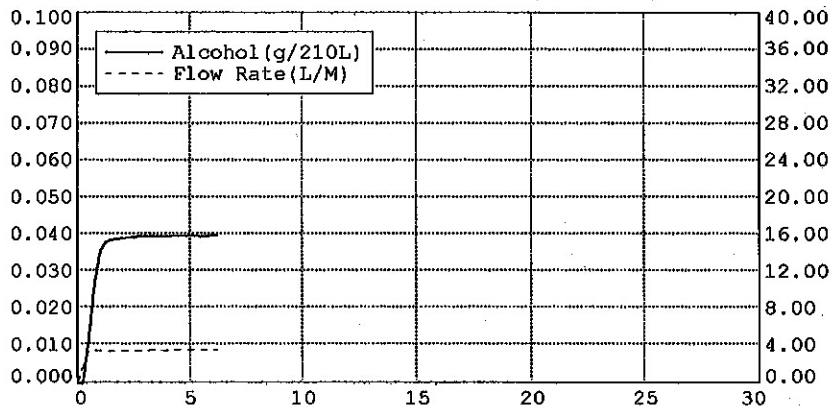
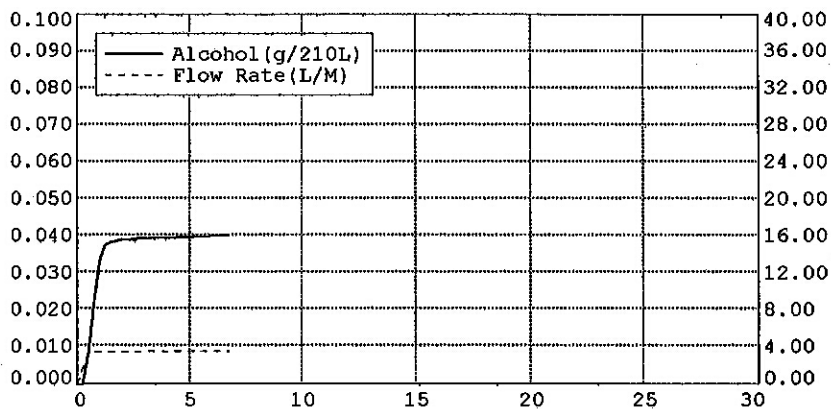
Alaska Department of Public Safety
DATAMASTER dmt: 100418

Date: 05/19/2011
Time: 11:04:27

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.72: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:07
EXTERNAL STANDARD	0.040	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.040	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.040	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.040	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.040	11:11
BLANK TEST	0.000	11:12

Average = 0.0400
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100418

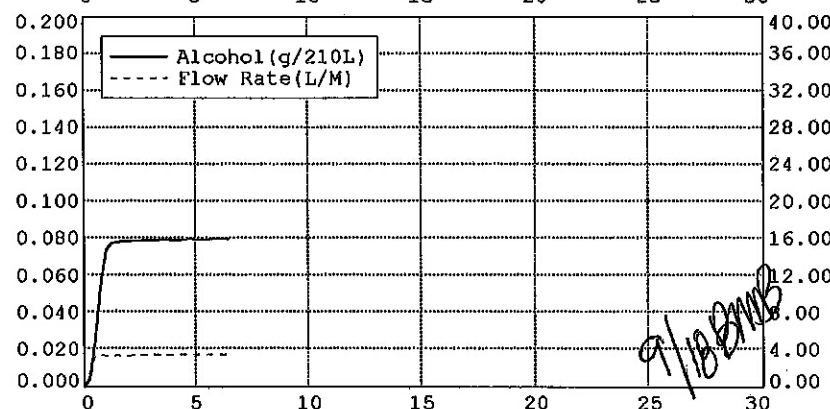
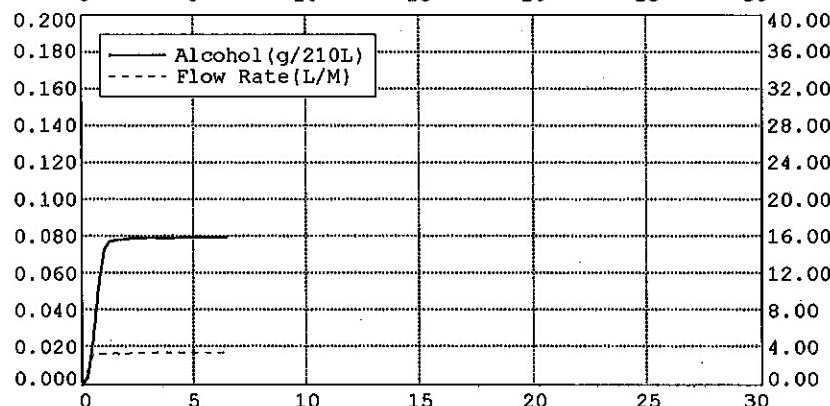
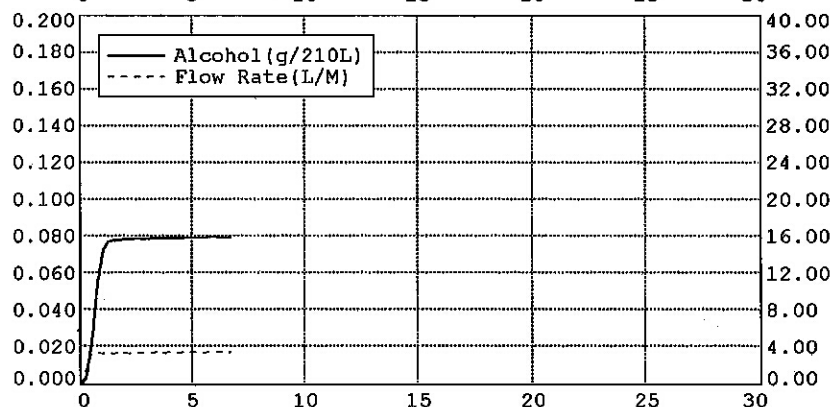
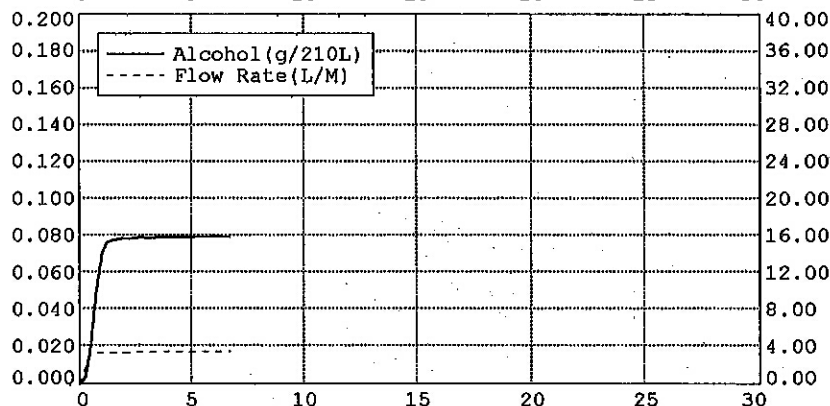
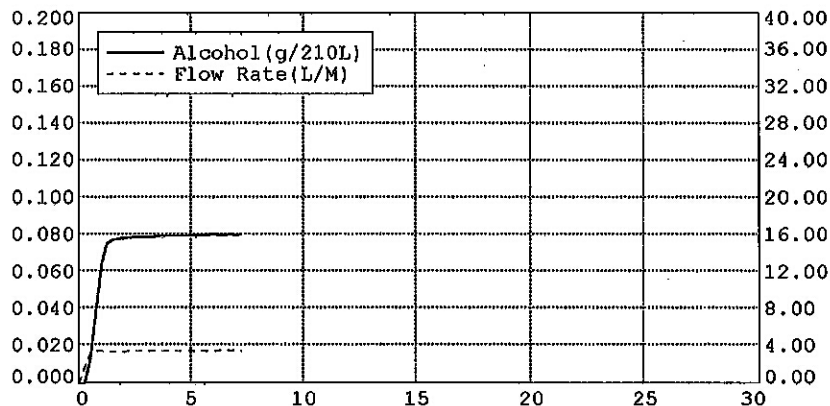
Date: 05/19/2011
Time: 11:14:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.70: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:15
INTERNAL STANDARD	VERIFIED	11:15
EXTERNAL STANDARD	0.081	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.080	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.080	11:18
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.080	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.080	11:20
BLANK TEST	0.000	11:21

Average = 0.0802
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

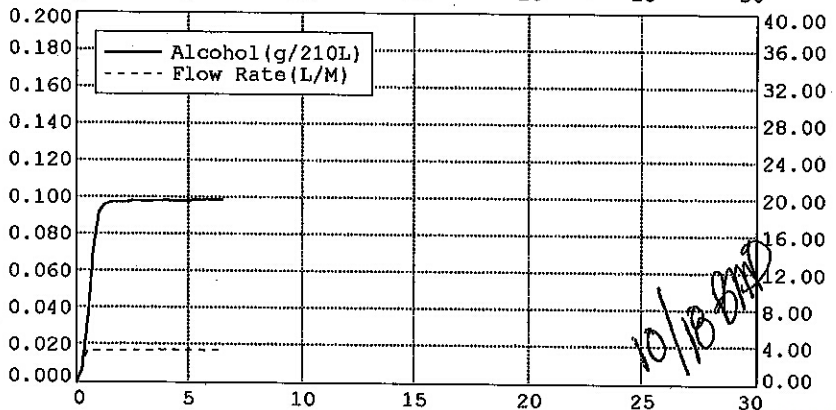
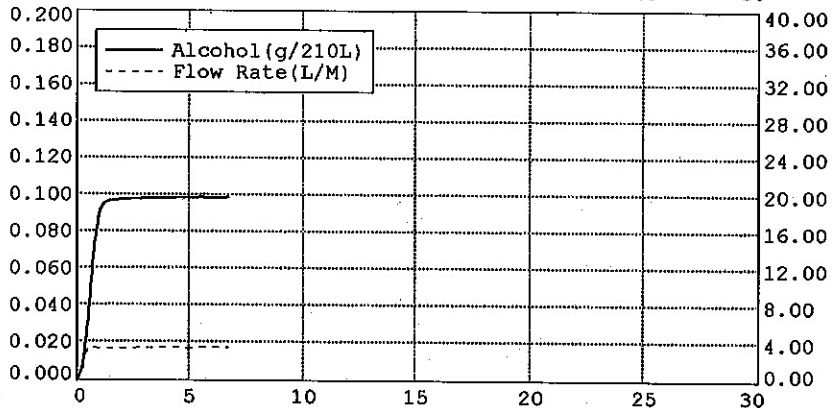
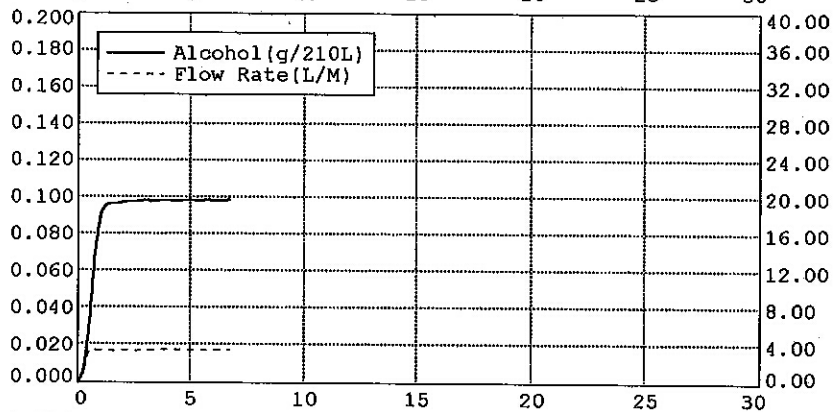
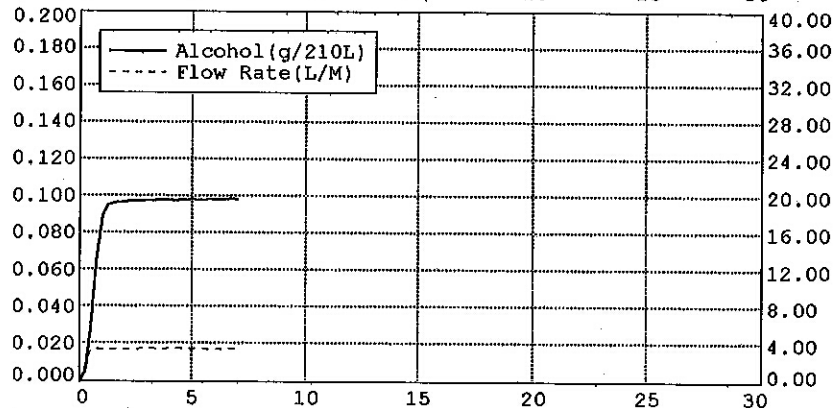
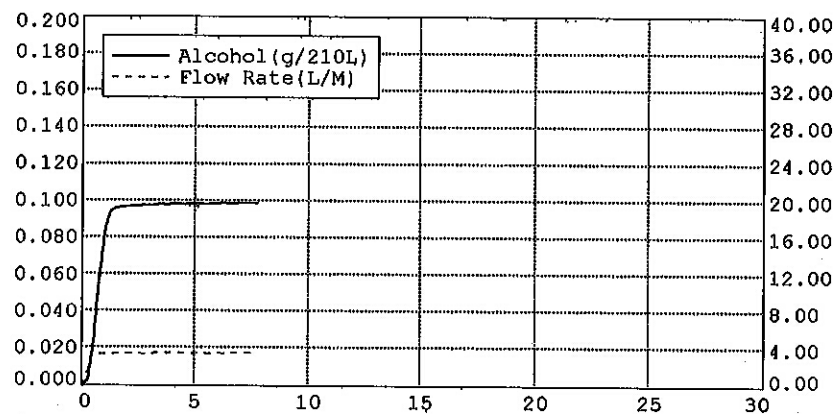
Alaska Department of Public Safety
DATAMASTER dmt: 100418

Date: 05/19/2011
Time: 11:22:23

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.70: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:23
INTERNAL STANDARD	VERIFIED	11:23
EXTERNAL STANDARD	0.099	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.099	11:25
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.099	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.099	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.099	11:28
BLANK TEST	0.000	11:29

Average = 0.0990
Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100418

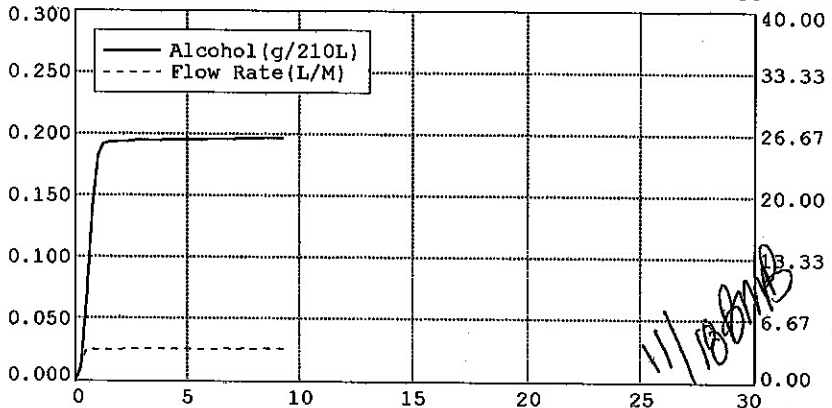
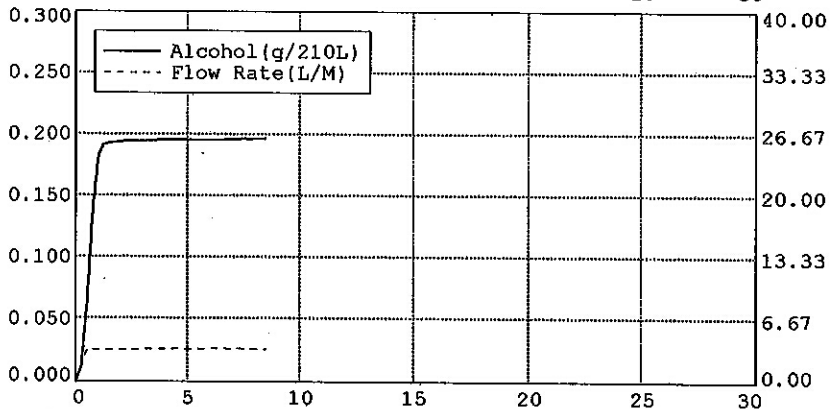
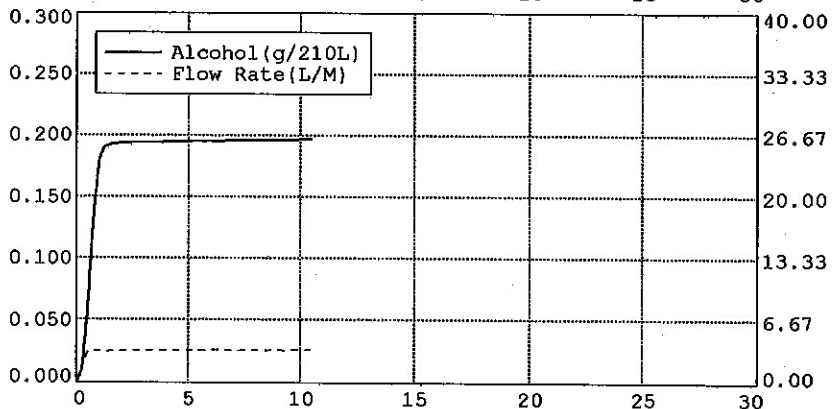
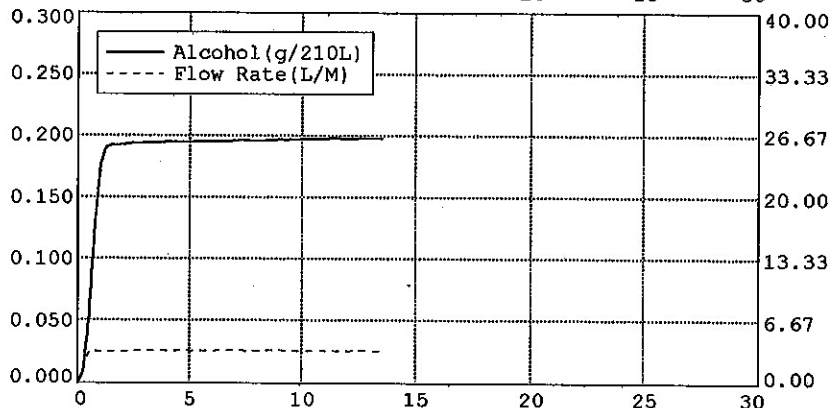
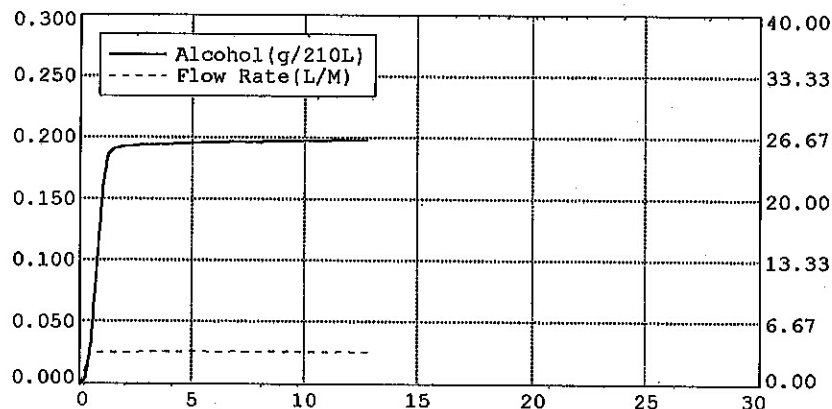
Date: 05/19/2011
Time: 11:30:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.69: 0.198
LOT #: 07611200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:31
INTERNAL STANDARD	VERIFIED	11:31
EXTERNAL STANDARD	0.199	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.198	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.197	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.197	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.197	11:36
BLANK TEST	0.000	11:37

Average = 0.1976
Std Dev = 0.0009



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100418

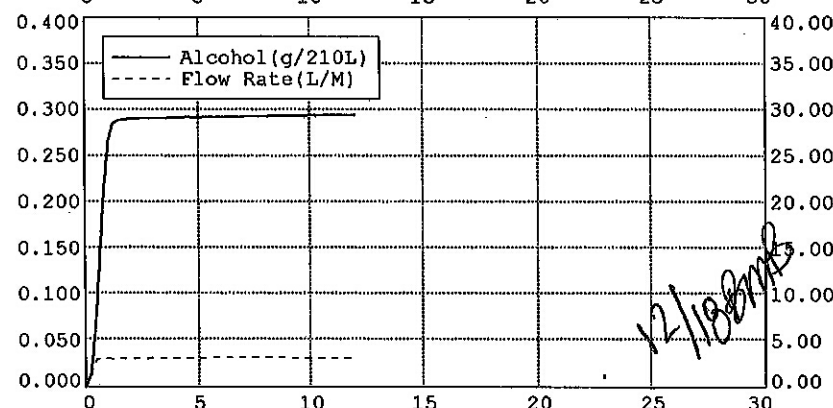
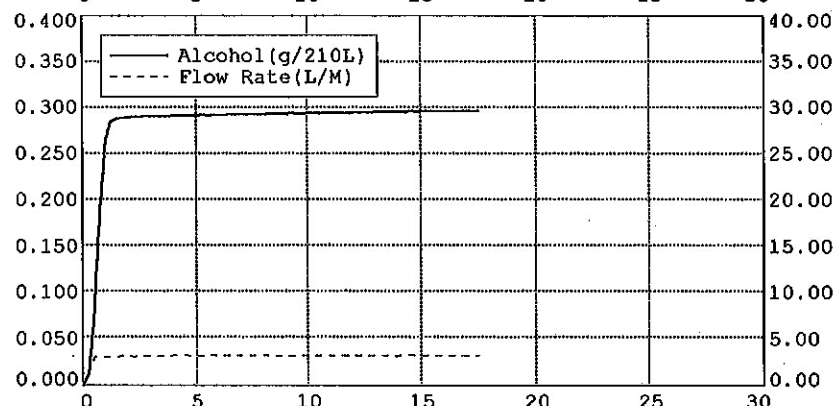
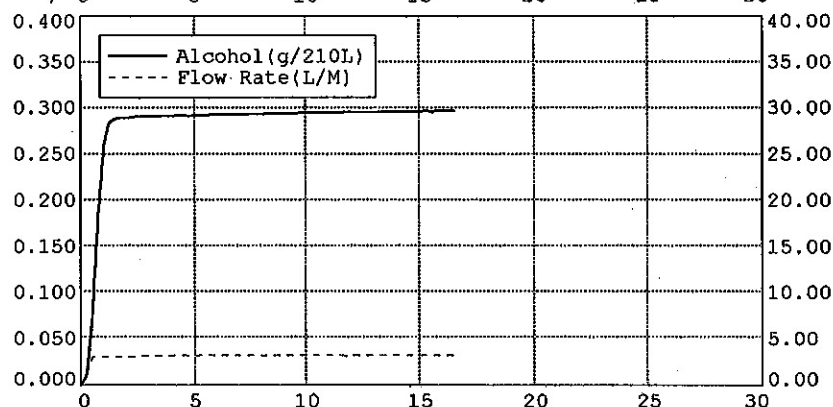
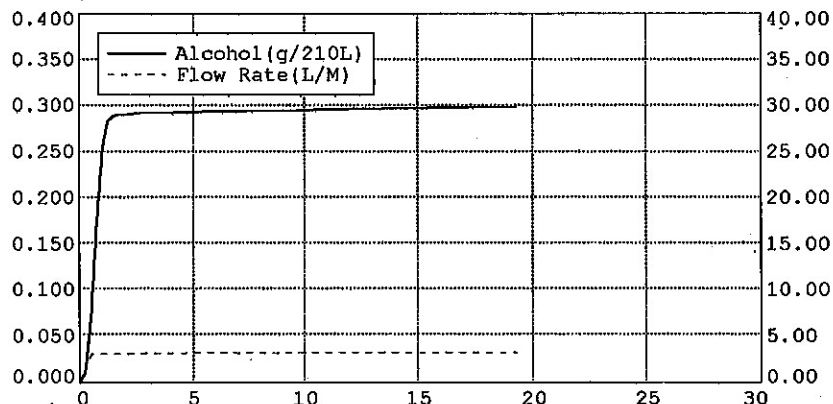
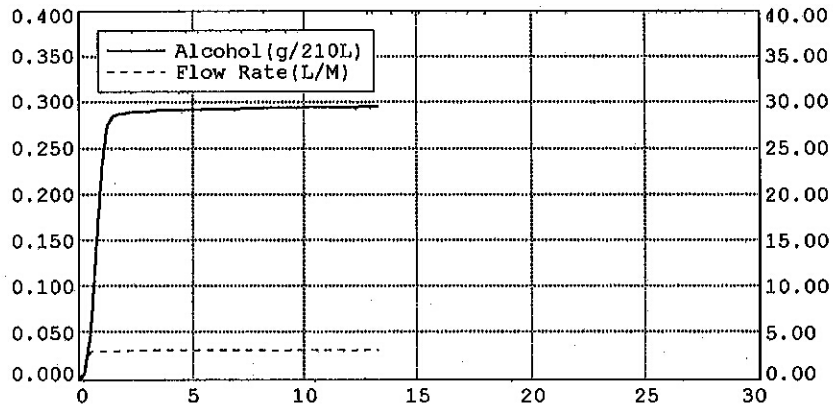
Date: 05/19/2011
Time: 11:38:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.69: 0.297
LOT #: 07611300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:39
INTERNAL STANDARD	VERIFIED	11:40
EXTERNAL STANDARD	0.296	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.298	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.297	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.296	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.294	11:46
BLANK TEST	0.000	11:47

Average = 0.2962
Std Dev = 0.0015



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100418

Date: 05/19/2011
 Time: 13:01:40

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

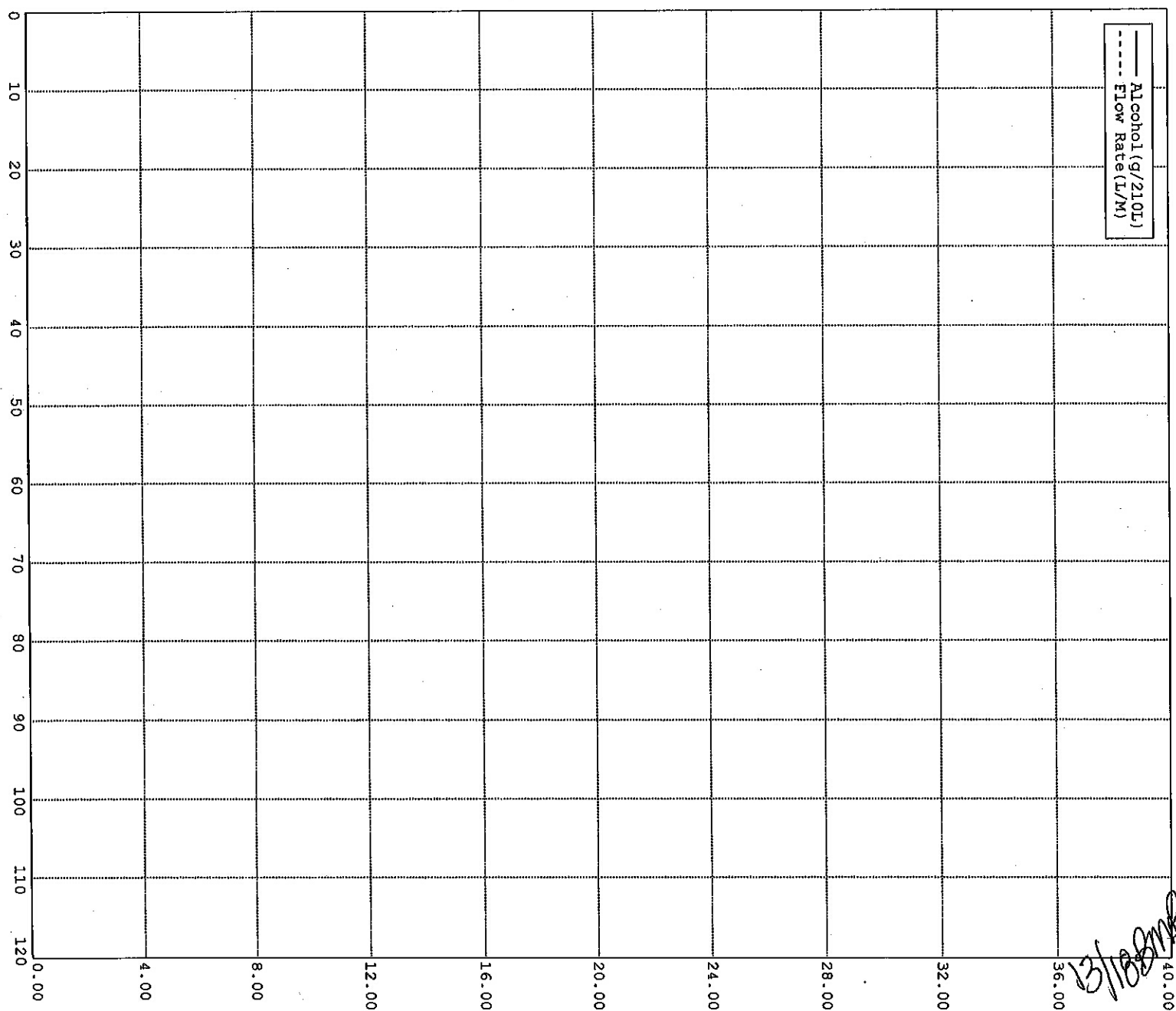
DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.69: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:05
BLANK TEST	0.000	13:05
INTERNAL STANDARD	VERIFIED	13:05
EXTERNAL STANDARD	0.080	13:05
BLANK TEST	0.000	13:06
SUBJECT SAMPLE	INCOMPLETE	13:08

BMB

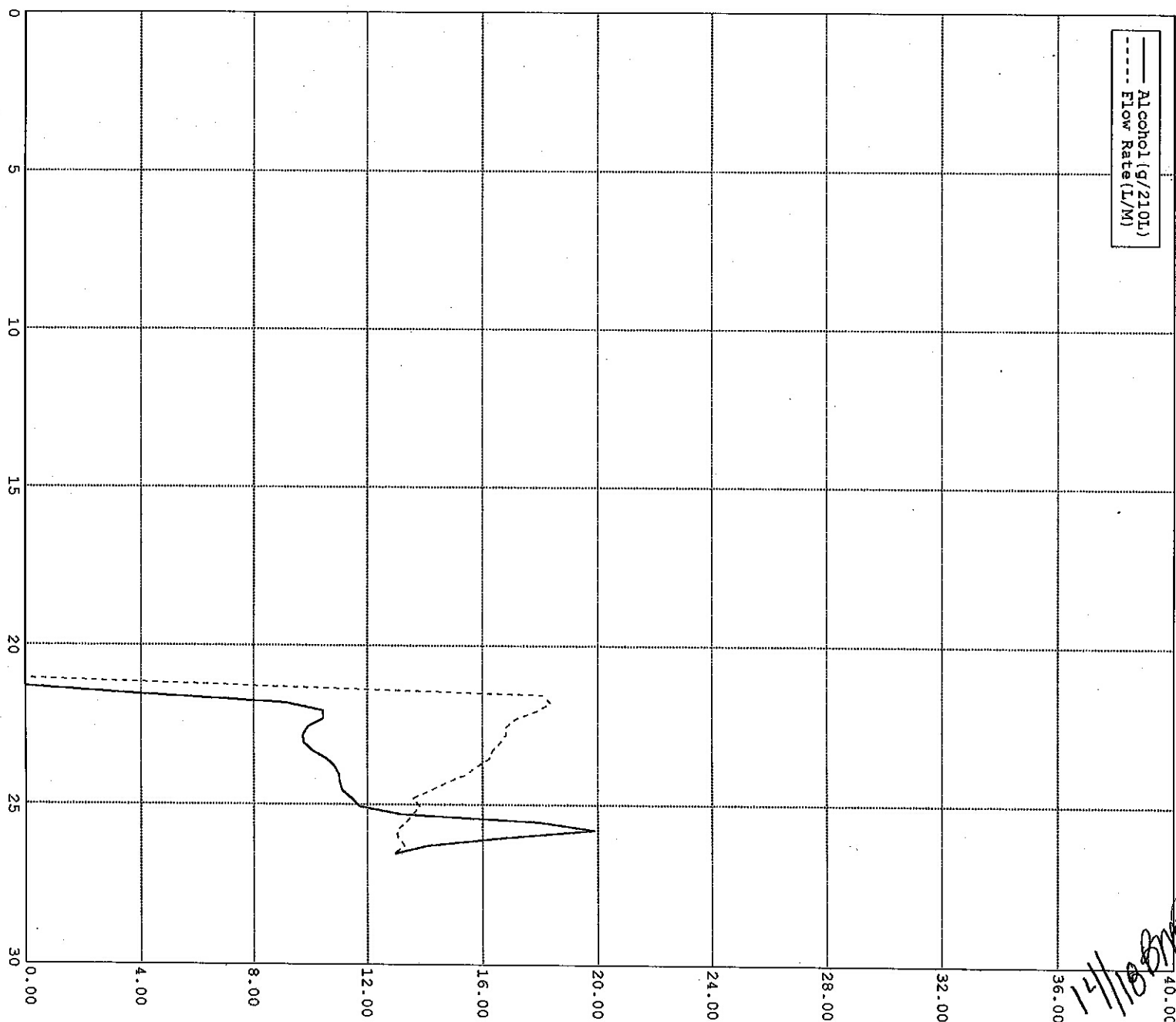


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100418Date: 05/19/2011
Time: 13:13:57SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INVALID XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.68: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:14
BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.080	13:15
BLANK TEST	0.000	13:16
SUBJECT SAMPLE	Invalid	13:16

BMS

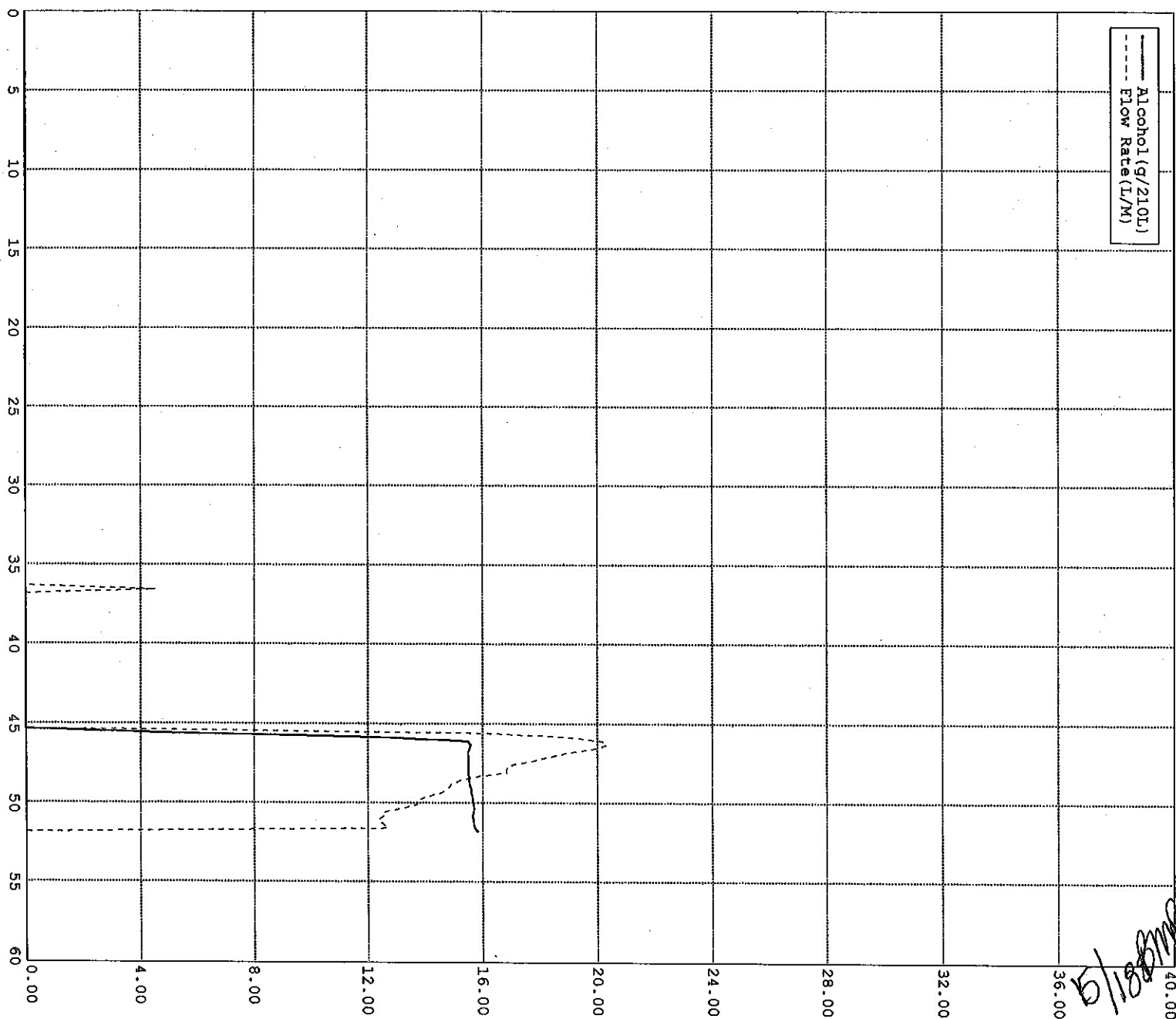


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100418Date: 05/19/2011
Time: 13:23:07SUBJECT NAME:
TEST TEST
LICENSE #: INTEREREOPERATOR NAME:
ETHANOL AND ACETONE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:24
BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.081	13:24
BLANK TEST	0.000	13:25
SUBJECT SAMPLE	INTERERENCE	13:26

BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100418

Date: 05/19/2011
 Time: 13:28:57

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

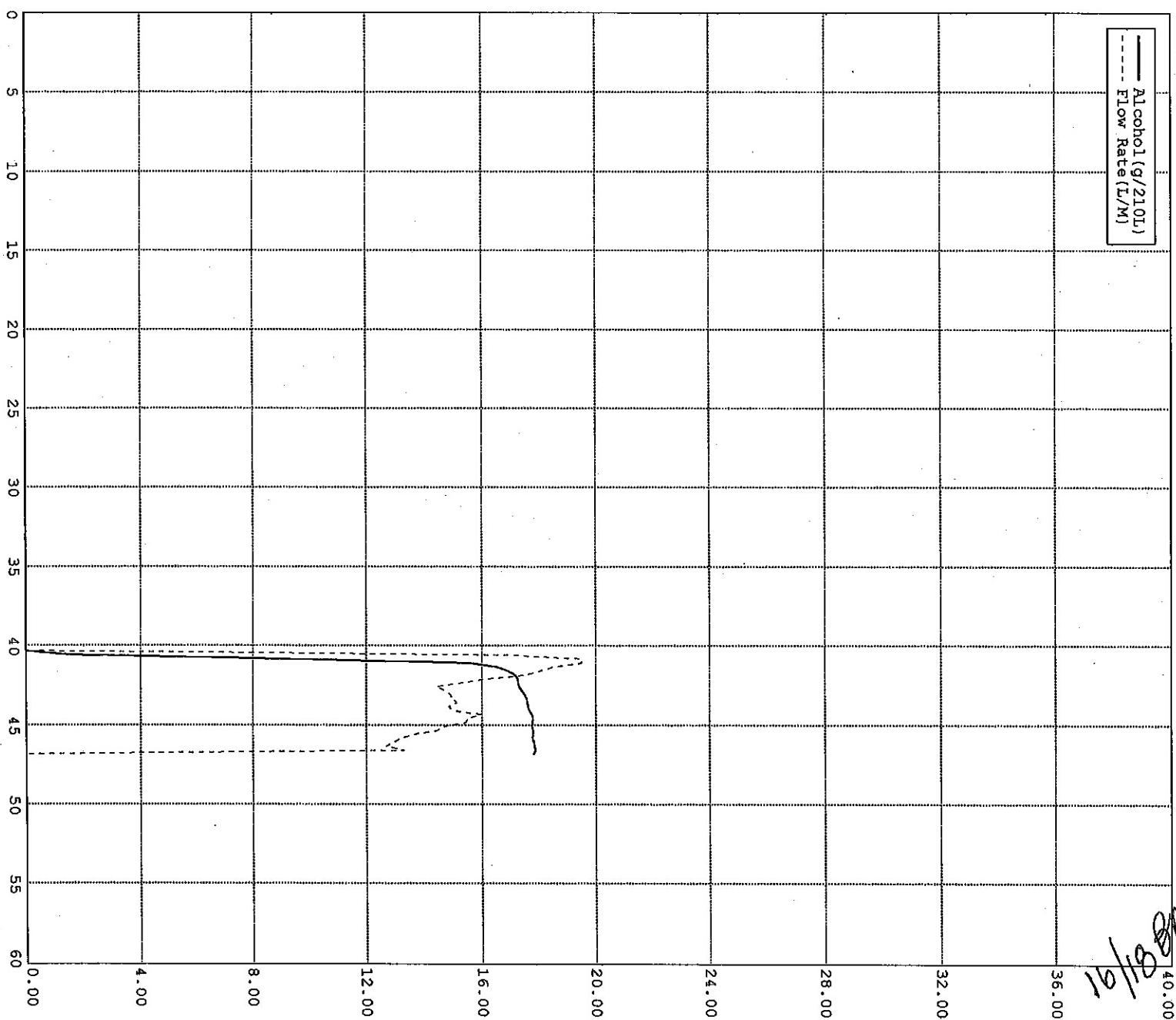
OPERATOR NAME:
 ETHANOL AND ISOPROPNOL
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.68: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:30
BLANK TEST	0.000	13:30
INTERNAL STANDARD	VERIFIED	13:30
EXTERNAL STANDARD	0.081	13:30
BLANK TEST	0.000	13:31
SUBJECT SAMPLE	INTERFERENCE	13:32

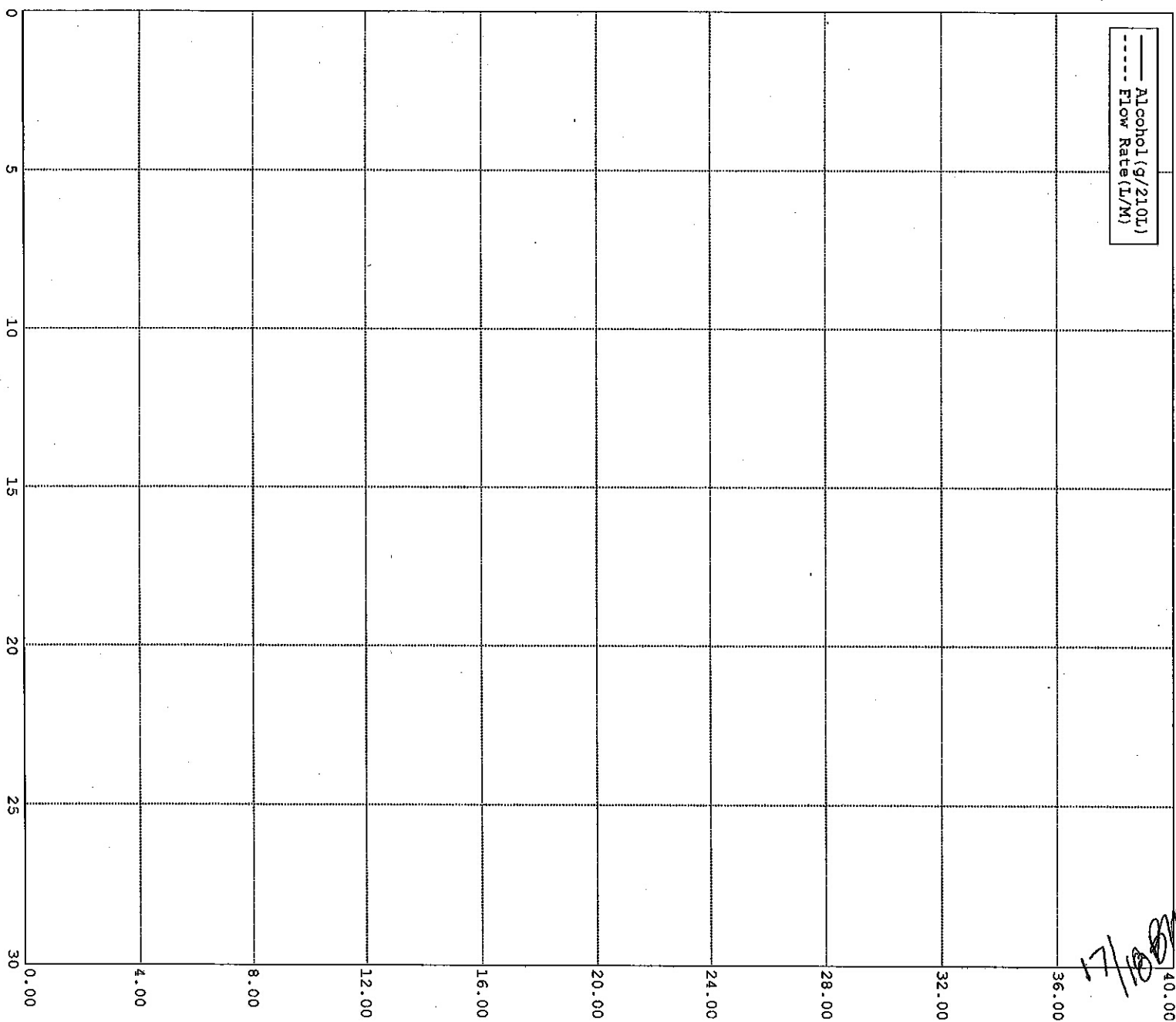
BM B



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100418Date: 05/19/2011
Time: 13:38:12SUBJECT NAME:
TEST TEST
LICENSE #: RFIOPERATOR NAME:
XXXX XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AF 29.68: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 13:39
INTERNAL STANDARD VERIFIED 13:39
EXTERNAL STANDARD 0.080 13:39
BLANK TEST 0.000 13:40

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100418

Date: 05/19/2011
 Time: 14:00:11

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

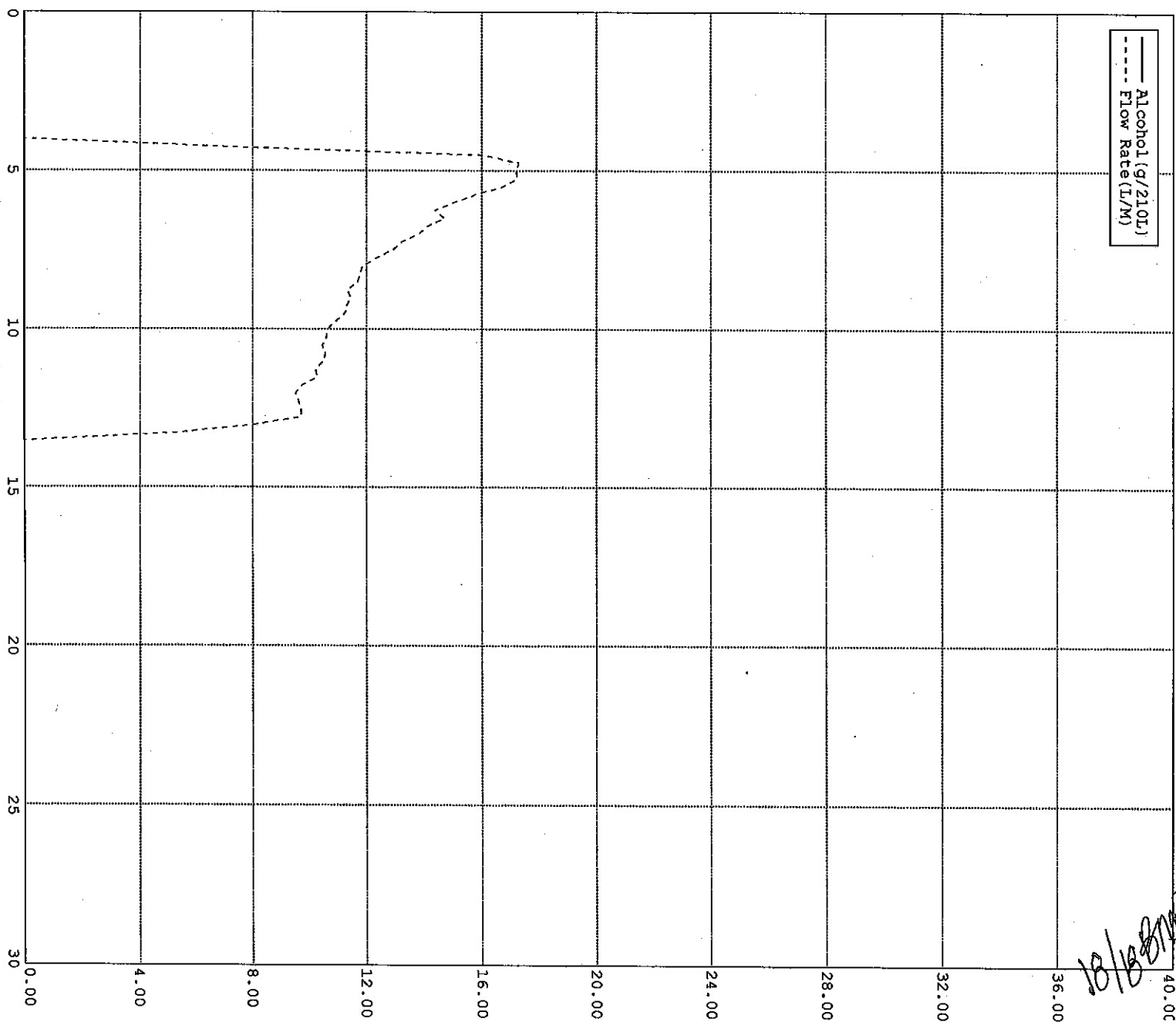
OPERATOR NAME:
 BRANDI M BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 NON DRINKING SUBJECT TEST
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.67: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:01
BLANK TEST	0.000	14:01
INTERNAL STANDARD	VERIFIED	14:01
EXTERNAL STANDARD	0.080	14:01
BLANK TEST	0.000	14:02
SUBJECT SAMPLE	0.000	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.080	14:04
BLANK TEST	0.000	14:04

BM B



Final page for report

\

\ANCSCLSAN01\JTRAX\CASEDOCS\B-100418\B-100418 ECF-20140

2/18/2014