

	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 # 100382Analyst Brandi BarnettDate 3/18/11

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 1600 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 TLMO Lot 02811040A2 Exp 02/01/2013
 - iii. 0.080g/210L Mnf TLMO Lot 33609080A1 Exp 01/01/2012
 - iv. 0.100g/210L Mnf TLMO Lot 05611100A2 Exp 03/01/2013
 - v. 0.200g/210L Mnf TLMO Lot 05611200A3 Exp 02/01/2013
 - vi. 0.300g/210L Mnf ILMO Lot 15210300A3 Exp 07/01/2012
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 DR16267
 - 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: 100382

Date: 03/18/2011
Time: 11:00:41

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 46.3°C PASSED

PUMP INFO

Flow Rate = 5.166 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

2/18/2011

Technician Screen

DATAMASTER dnt: 100382

Date: 03/18/2011
Time: 11:04 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 45.8°C

Current Barometer 30.0 in
Volume (Ltr) 1.46

Settings

Lamp: 1.61 V
Bias: 90 V
Cooler: 1.68 V
Chopper: 528 Hz

voltages (V)

Flow: 1.03 V
Detector: 0.346 V

3/18 BMB

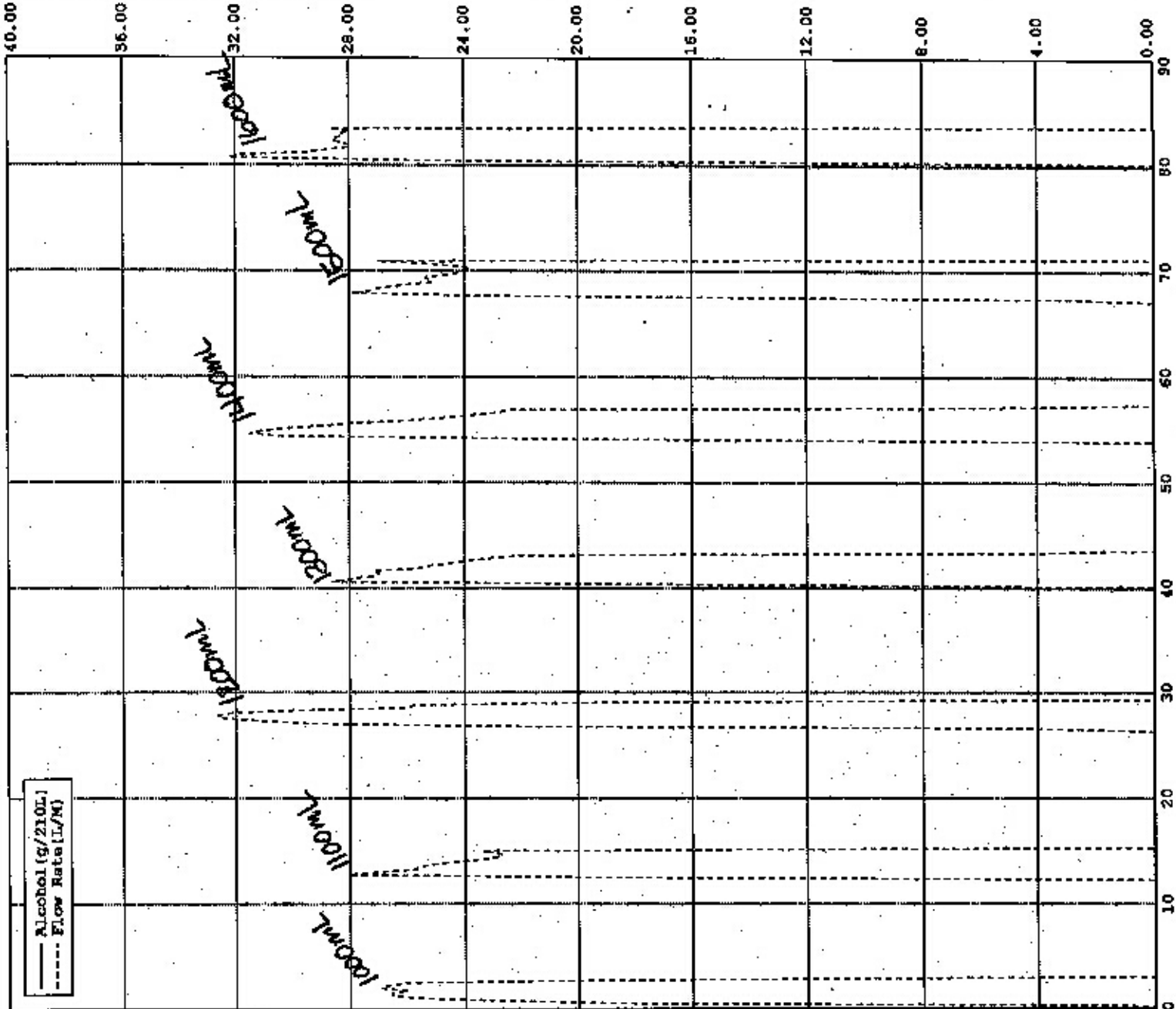
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dat: 100382

Date: 03/08/2011
Time: 12:50:56

Ca	=	0.1000		
CAL	=	0.980421	0.800	<= CAL < 1.200
b1	=	0.0000	0.0030	<= b1 < 0.0040
b2	=	0.0038	0.0010	<= b2 < 0.0100
b3	=	0.0002	0.0000	<= b3 < 0.0040
Xq	=	0.0953	0.0500	<= Xq < 0.2000
a21	=	1.172812	1.050	<= a21 < 1.300
a31	=	0.453890	0.300	<= a31 < 0.800

4/18/08 BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100382

Date: 03/16/2011
 Time: 11:10:35

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

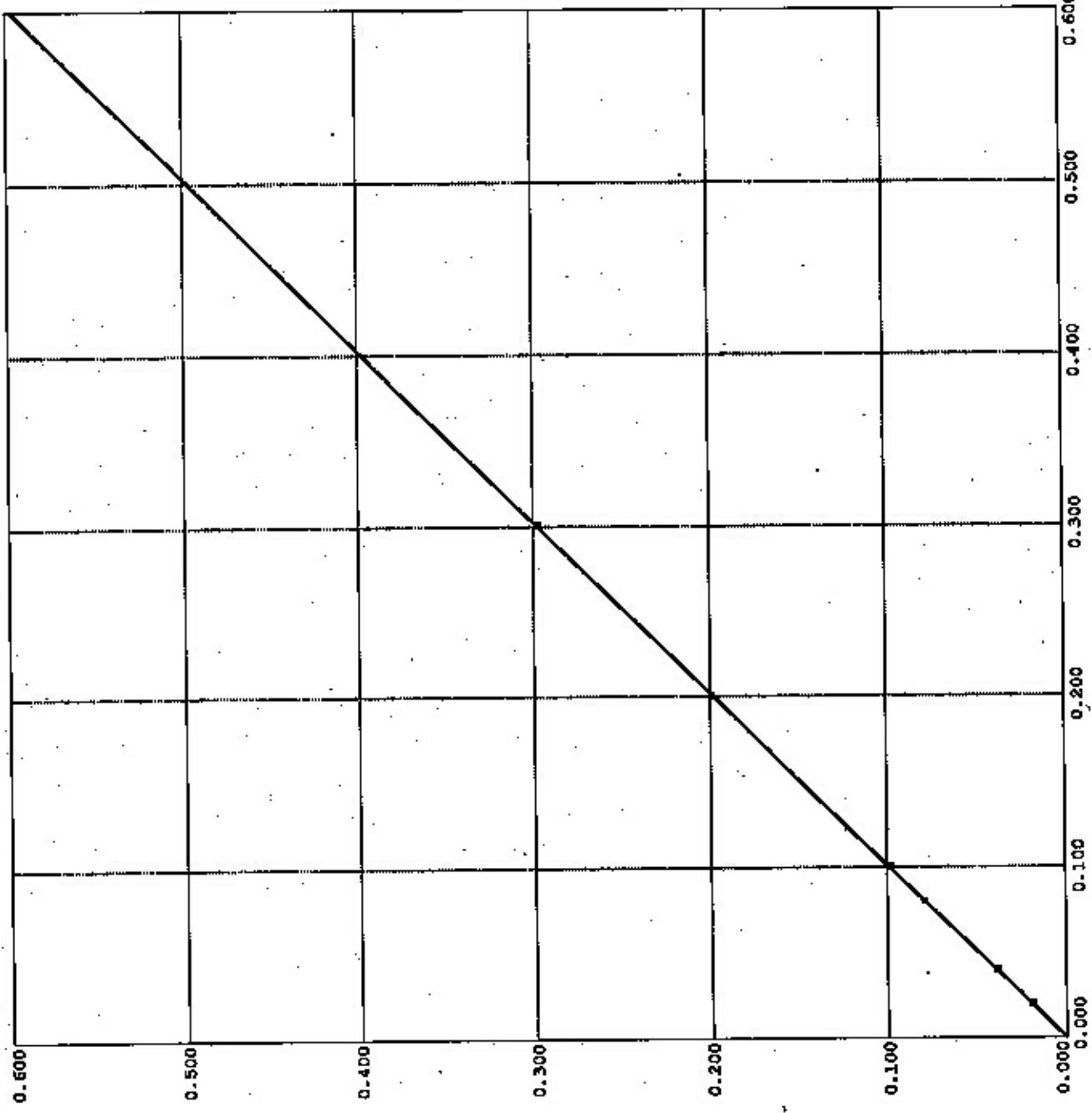
DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.98: 0.080
 LOT #: 3360980AL
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
EXTERNAL STANDARD	0.080	11:12
BLANK TEST	0.000	11:12
SUBJECT SAMPLE	0.000	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.080	11:15
BLANK TEST	0.000	11:16

BMB

5/18/2011



LINEARITY CHECK

Alaska Department of Public Safety
 DEWMASTER det: 100382

Date: 03/18/2011
 Time: 11:26:29

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0398	0.0004
0.080	0.0800	0.0000
0.100	0.0992	0.0004
0.200	0.2002	0.0013
0.300	0.2984	0.0009

SLOPE = 0.995939
 R² = 0.999998

B111B

6/18/2011

LINEARITY CHECK: Control Test 1

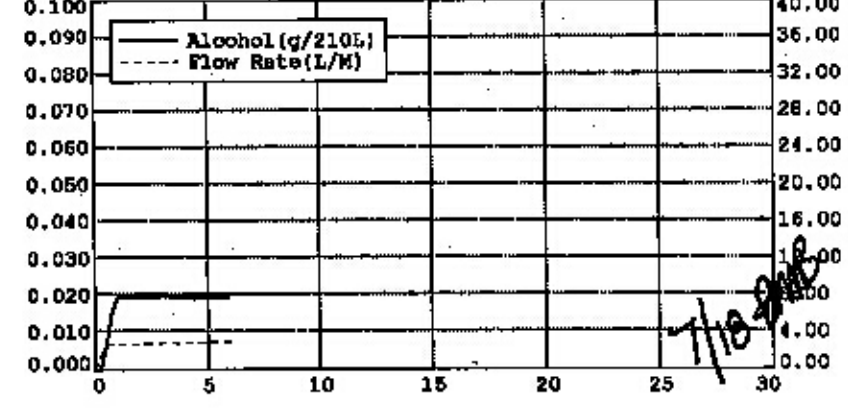
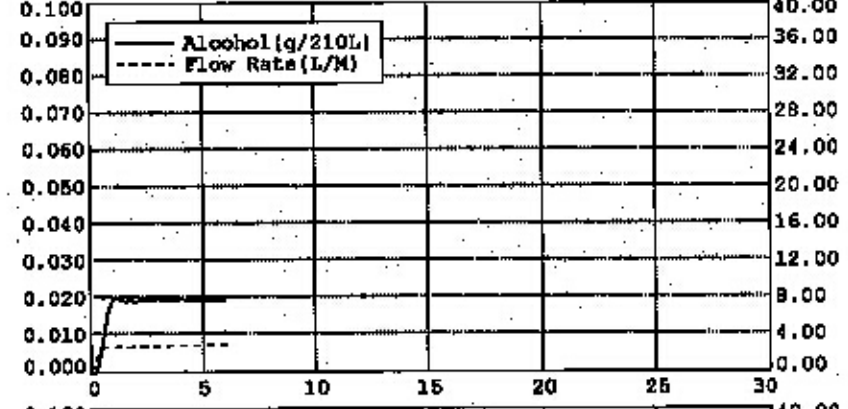
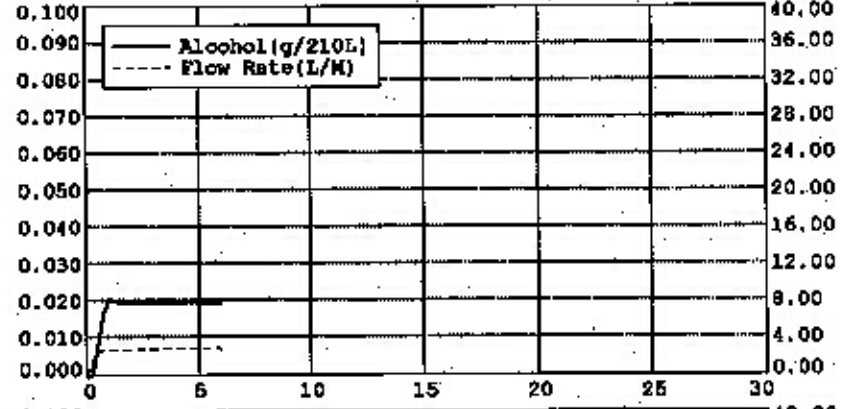
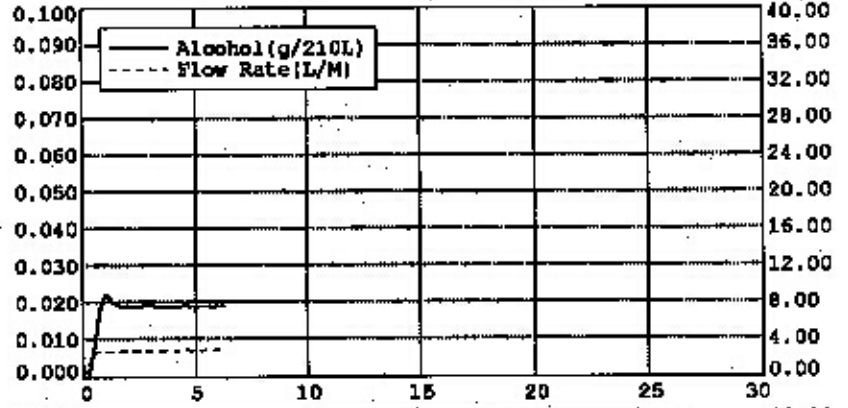
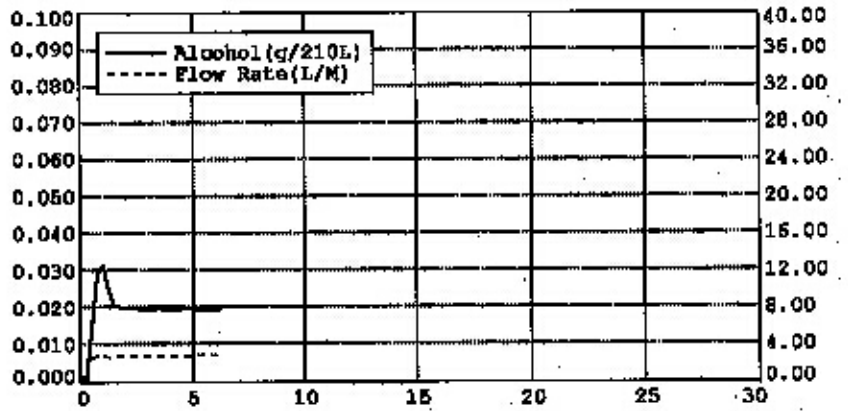
Alaska Department of Public Safety
 DATAMASTER dnt: 100382

Date: 03/18/2011
 Time: 11:26:30

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.98: 0.020
 LOT #: 02811020A1
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:27
INTERNAL STANDARD	VERIFIED	11:27
EXTERNAL STANDARD	0.020	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.020	11:29
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.020	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.020	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.020	11:32
BLANK TEST	0.000	11:33

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dnt: 100382

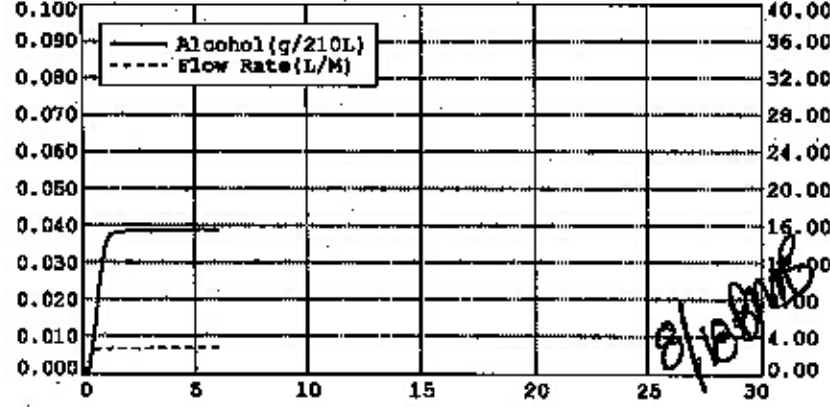
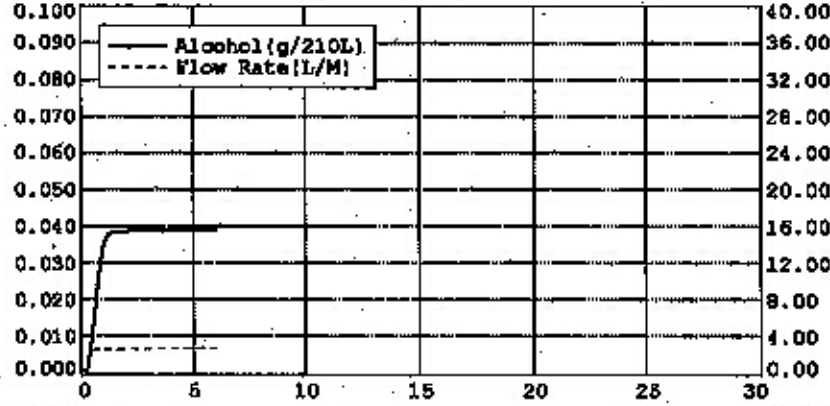
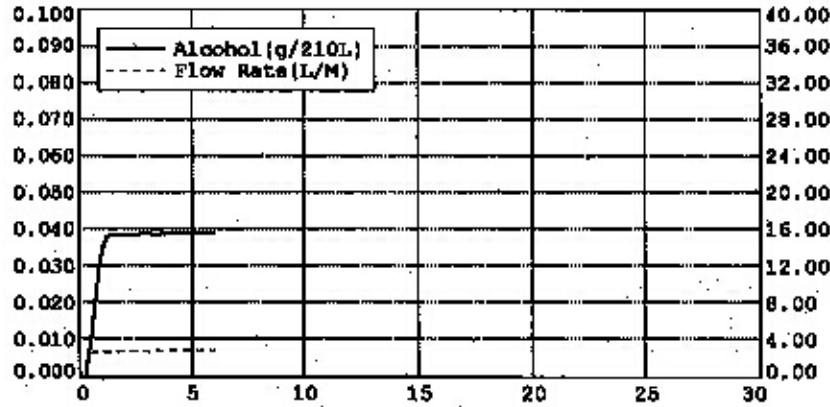
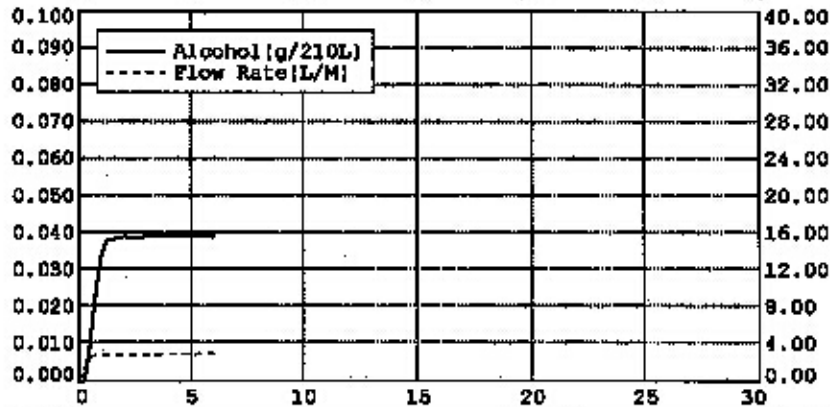
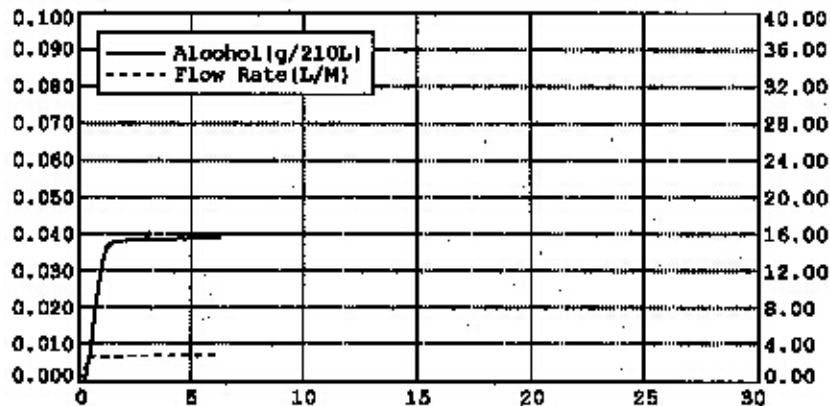
Date: 03/18/2011
 Time: 11:34:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.98: 0.040
 LOT #: 02611040A2
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:35
INTERNAL STANDARD	VERIFIED	11:35
EXTERNAL STANDARD	0.040	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.040	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.039	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.040	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.040	11:40
BLANK TEST	0.000	11:41

Average = 0.0398
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

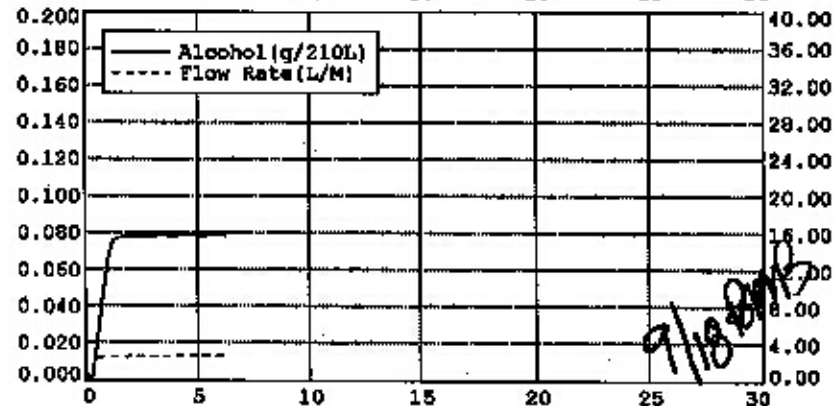
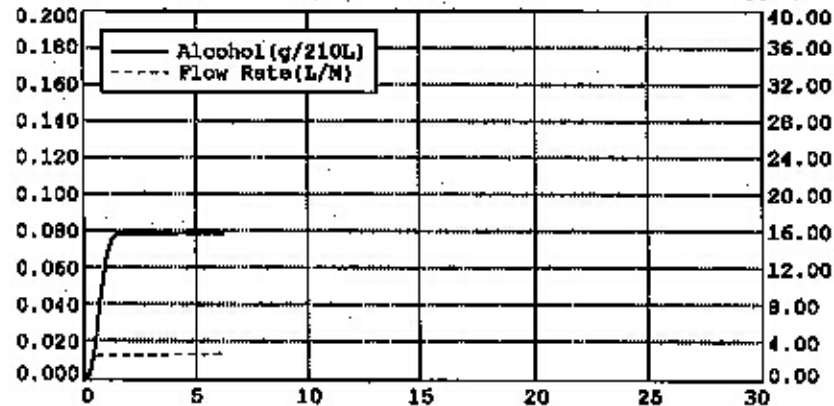
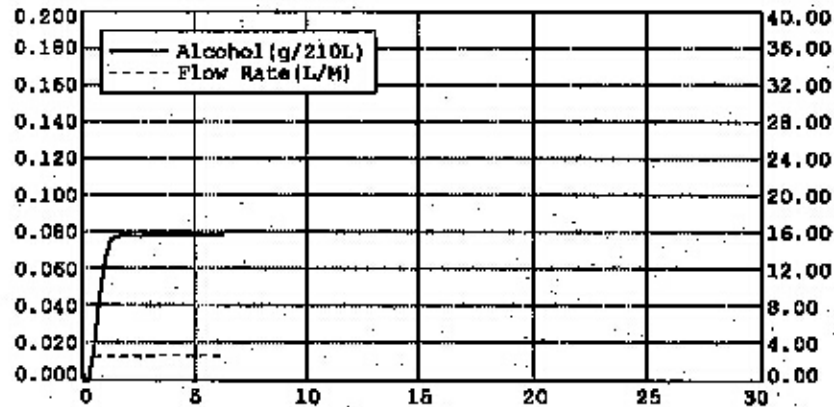
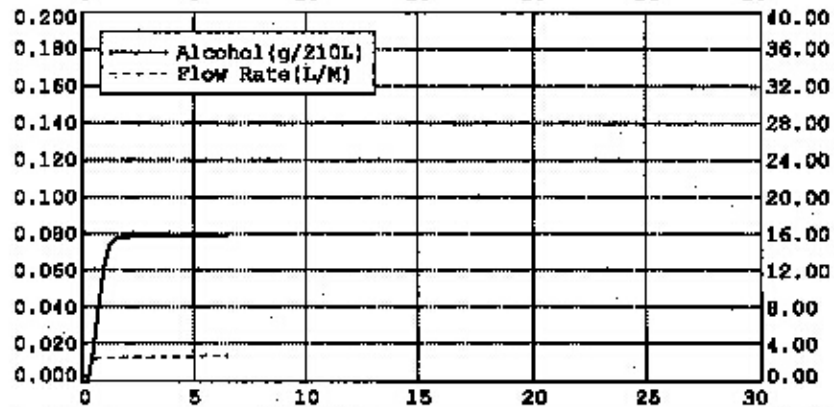
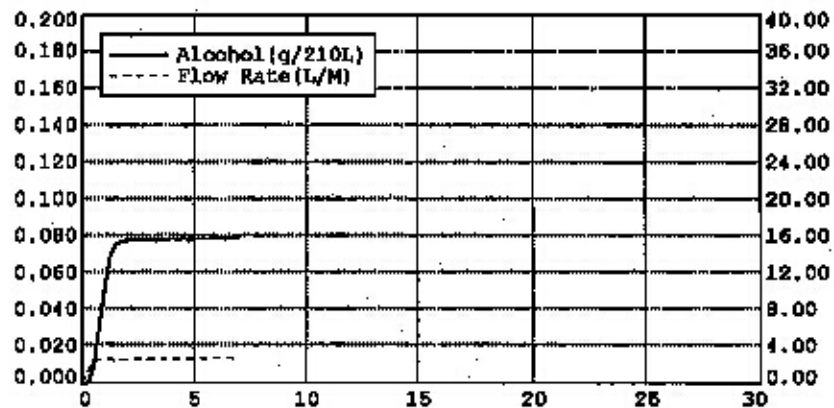
Alaska Department of Public Safety
DATAMASTER dmt; 100382

Date: 03/18/2011
Time: 11:42:21

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.99: 0.080
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	11:43
INTERNAL STANDARD	VERIFIED	11:43
EXTERNAL STANDARD	0.080	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.080	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.080	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.080	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.080	11:48
BLANK TEST	0.000	11:49

Average = 0.0800
Std Dev = 0.0000



LINEARITY CHECK; Control Test 4

Alaska Department of Public Safety
DATAMASTER dnt: 100382

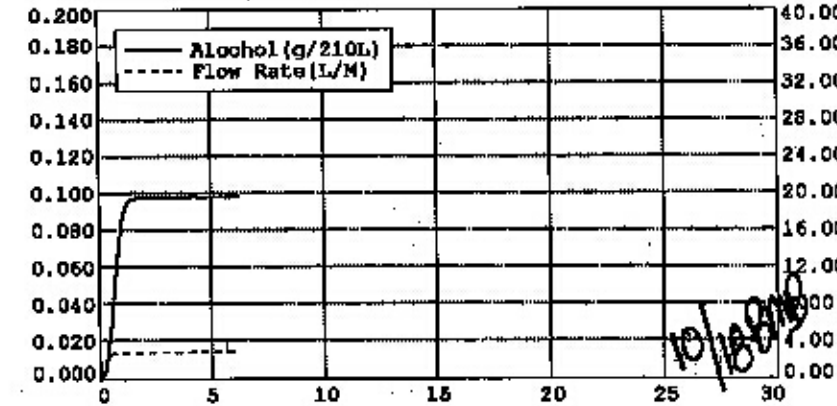
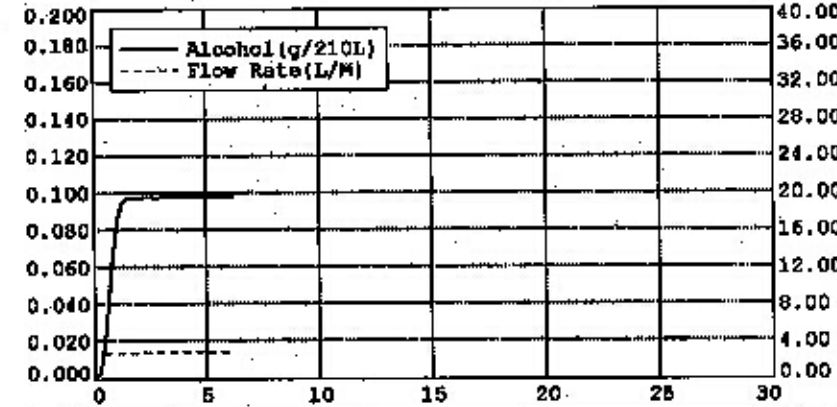
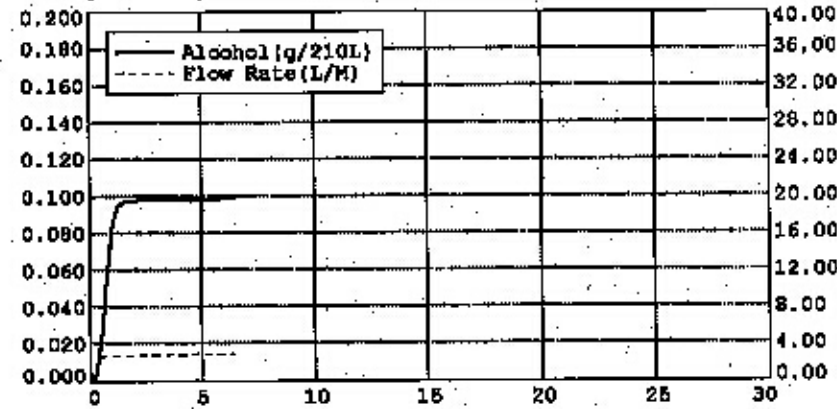
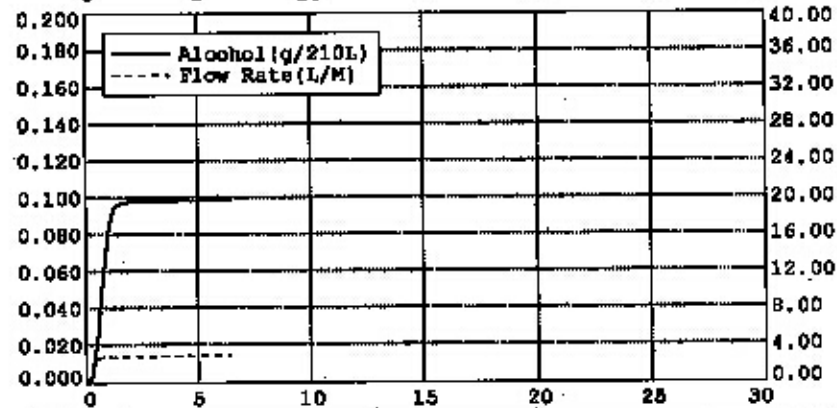
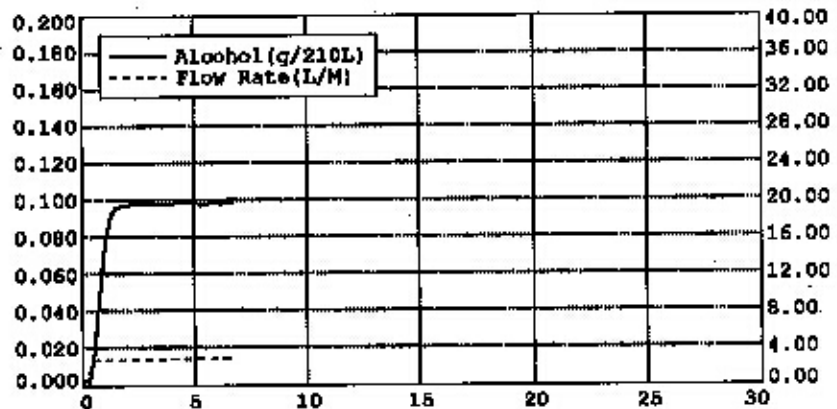
Date: 03/18/2011
Time: 11:50:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.98; 0.100
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:51
INTERNAL STANDARD	VERIFIED	11:51
EXTERNAL STANDARD	0.099	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.100	11:52
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.099	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.099	11:55
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.099	11:56
BLANK TEST	0.000	11:57

Average = 0.0992
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dnt: 100382

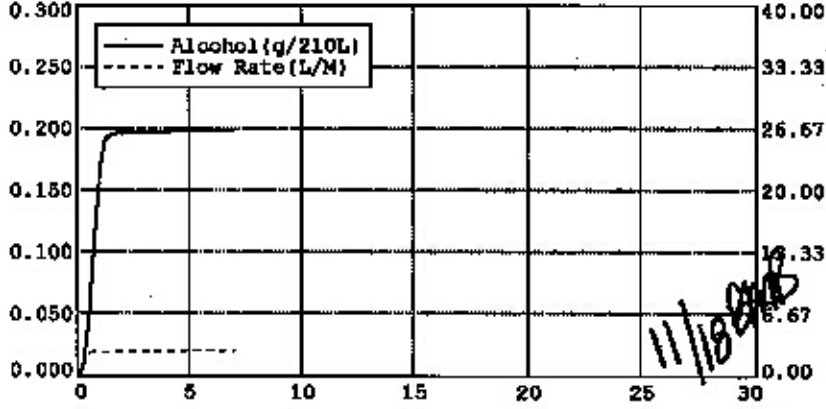
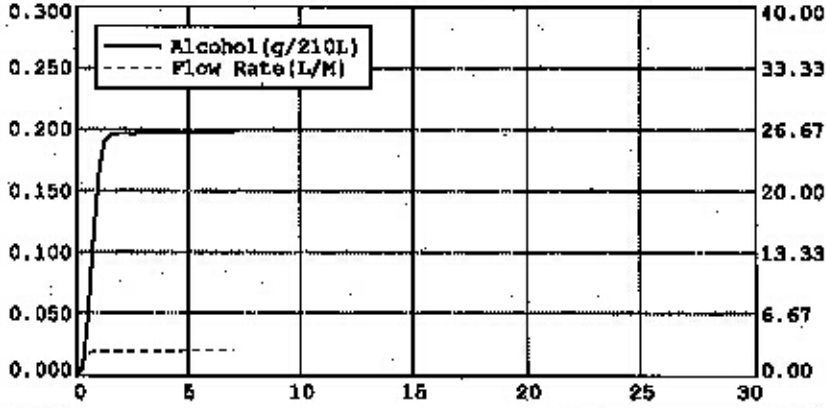
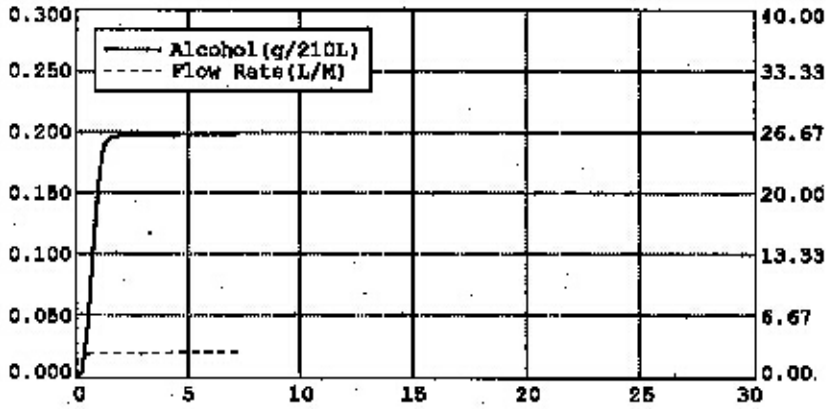
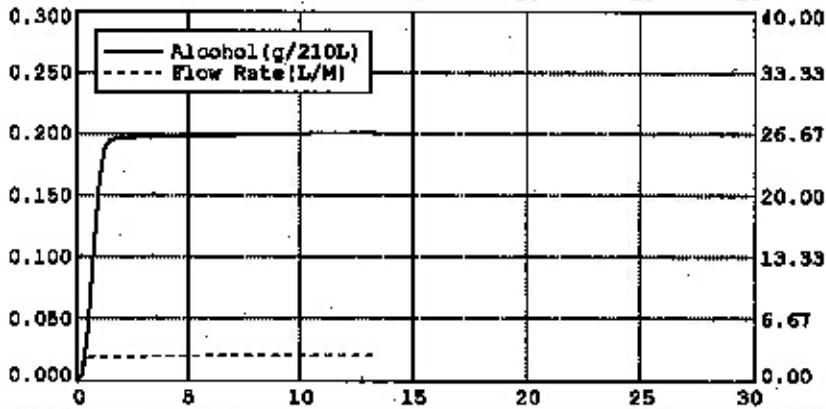
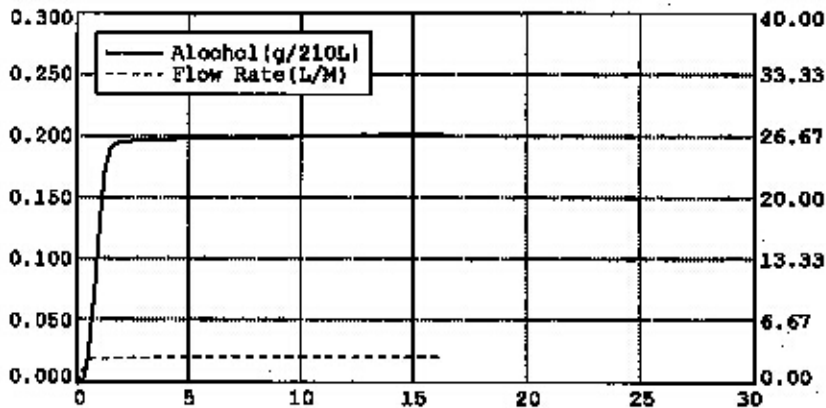
Date: 03/18/2011
 Time: 11:58:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 TARGET AT 29.98; 0.200
 LOT #: 05611200A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:00
INTERNAL STANDARD	VERIFIED	12:00
EXTERNAL STANDARD	0.202	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.201	12:01
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.200	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.199	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.199	12:05
BLANK TEST	0.000	12:06

Average = 0.2002
 Std Dev = 0.0013



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dnt: 100382

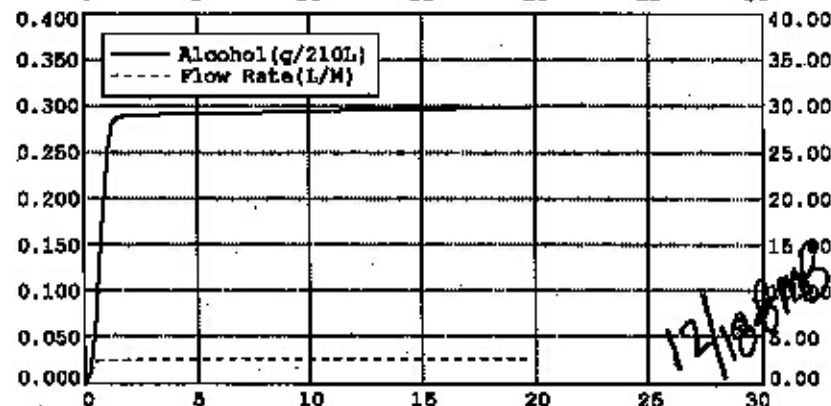
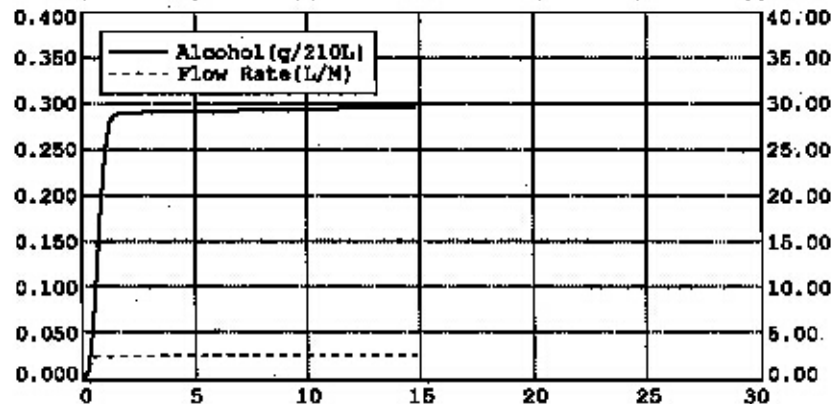
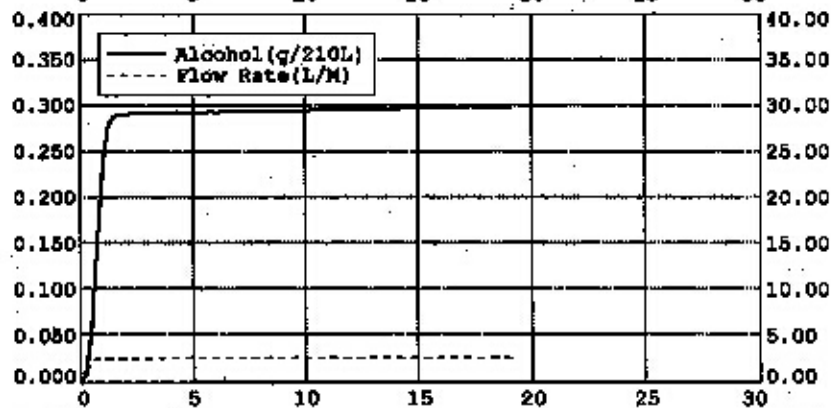
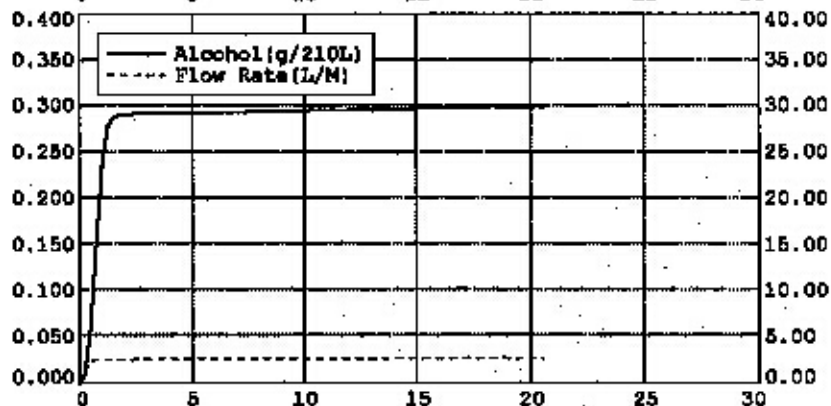
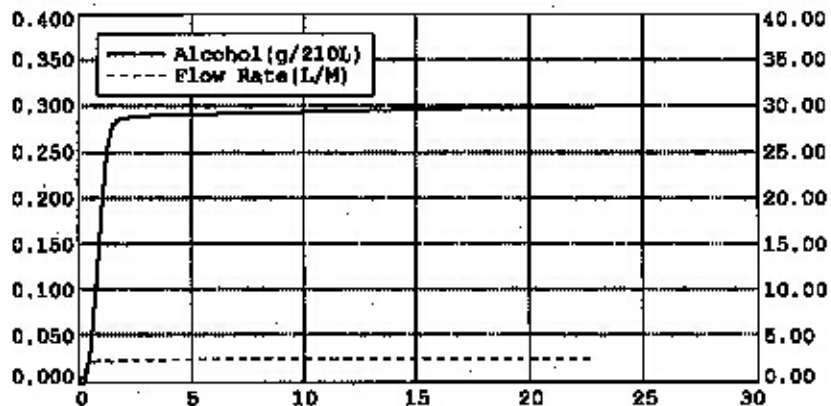
Date: 03/18/2011
Time: 12:08:16

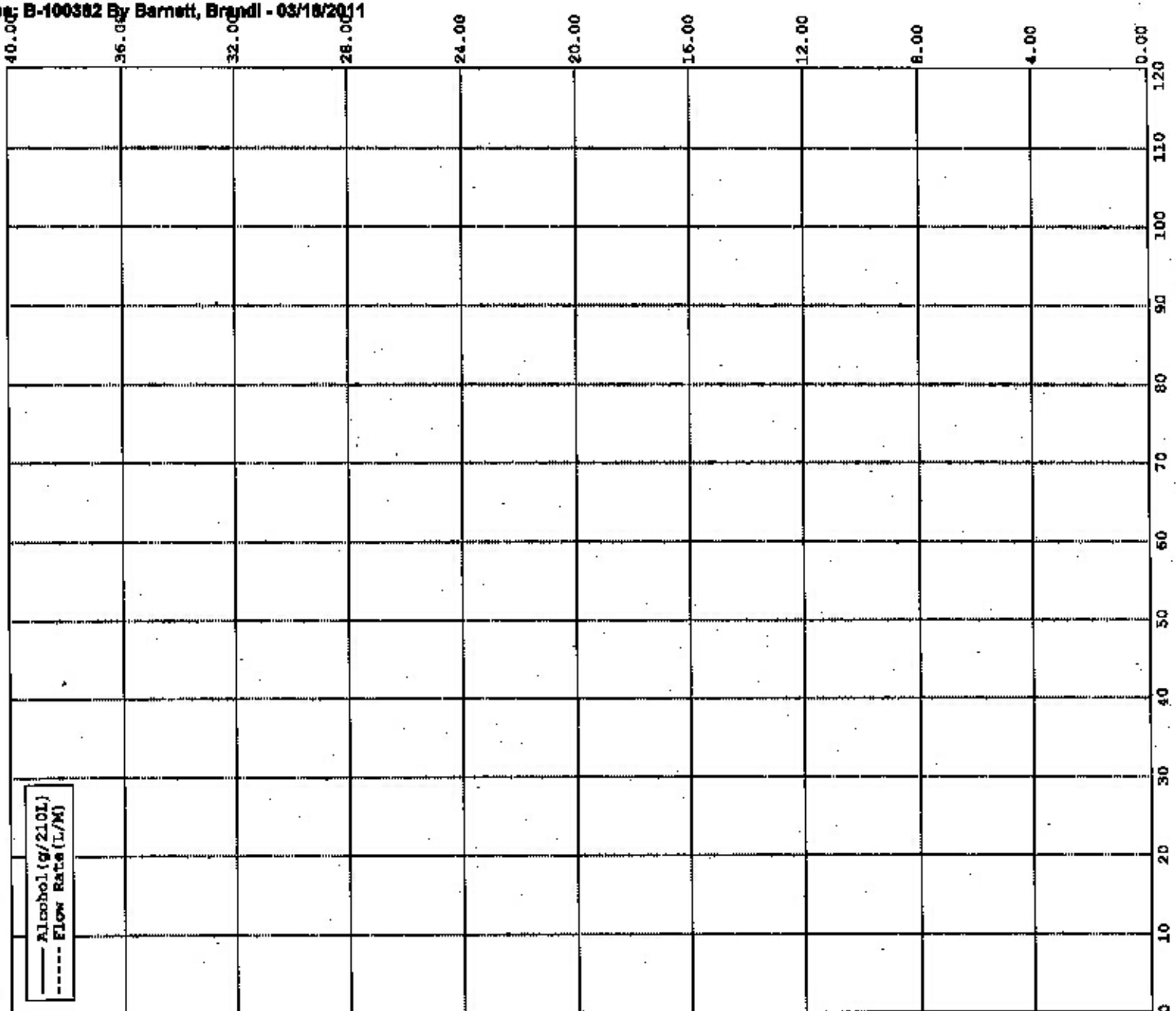
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.99: 0.300
LOT #: 15210300A3
EXPIRATION: 07/01/2012

BLANK TEST	0.000	12:09
INTERNAL STANDARD	VERIFIED	12:09
EXTERNAL STANDARD	0.299	12:09
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.298	12:11
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.299	12:13
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.297	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.299	12:16
BLANK TEST	0.000	12:17

Average = 0.2984
Std Dev = 0.0009





SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER chmt: 100382

Date: 03/18/2011
 Time: 11:18:51

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 XXXX

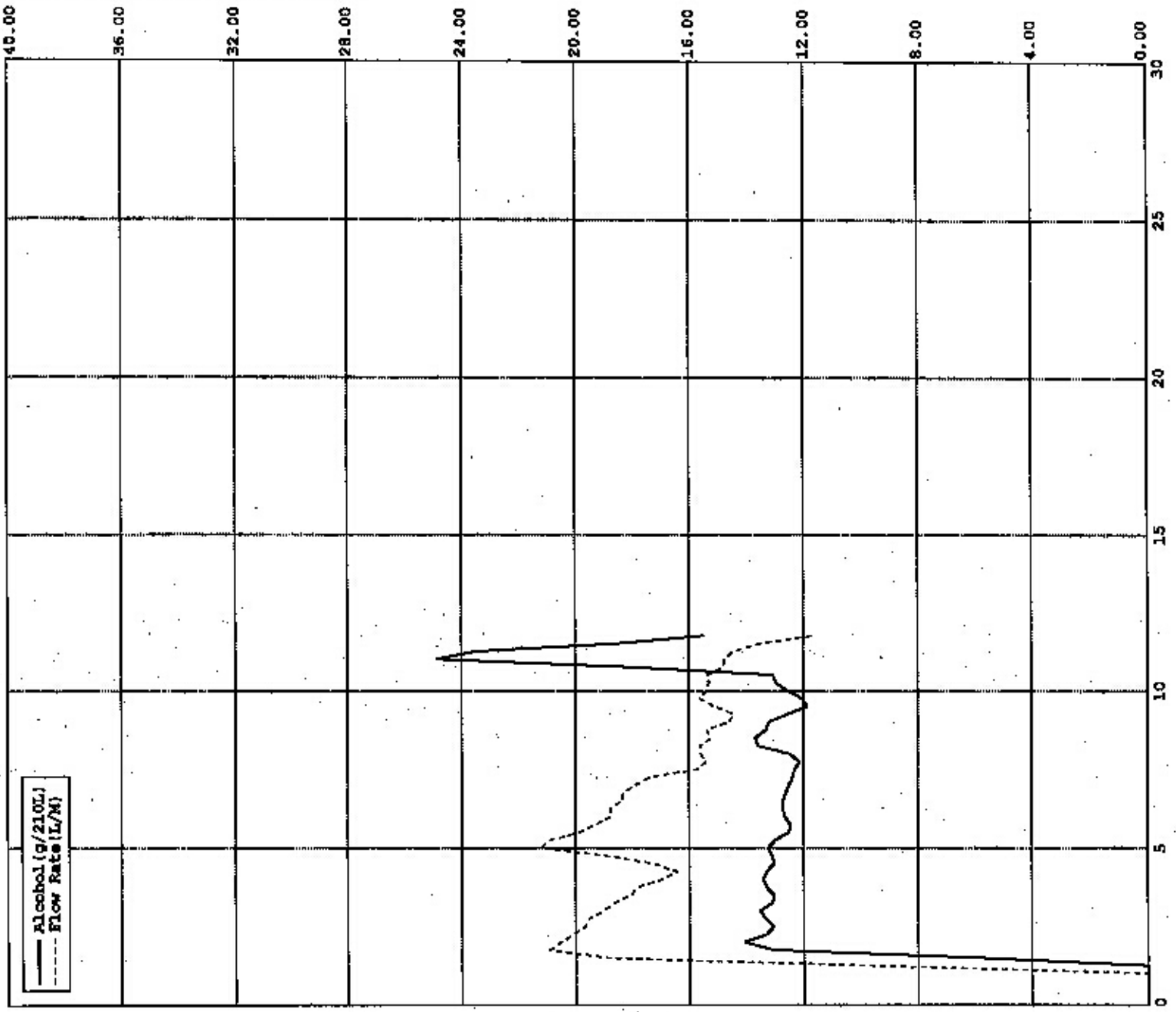
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.99: 0.080
 LOT #: 336090H0A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	11:19
BLANK TEST	0.000	11:19
INTERNAL STANDARD	VERIFIED	11:20
EXTERNAL STANDARD	0.075	11:20
BLANK TEST	0.000	11:21
SUBJECT SAMPLE	INCOMPLETE	11:23

BMB

13/11/18 BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAPRINTER dmt: 100382

Date: 03/18/2011
 Time: 13:36:45

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INVALID XXXX
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 KNOWN MOUTH ALCOHOL
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.98: 0.080
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	13:38
BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
EXTERNAL STANDARD	0.079	13:38
BIAS TEST	0.000	13:39
SUBJECT SAMPLE	Invalid	13:39

BMB
 14/18 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAWASTER dmt: 100382

Date: 03/18/2011
Time: 13:43:52

SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERE

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

DEPT/AGENCY:
XXXX

CASE/REPORT: XXXX
TEST TYPE: TEST

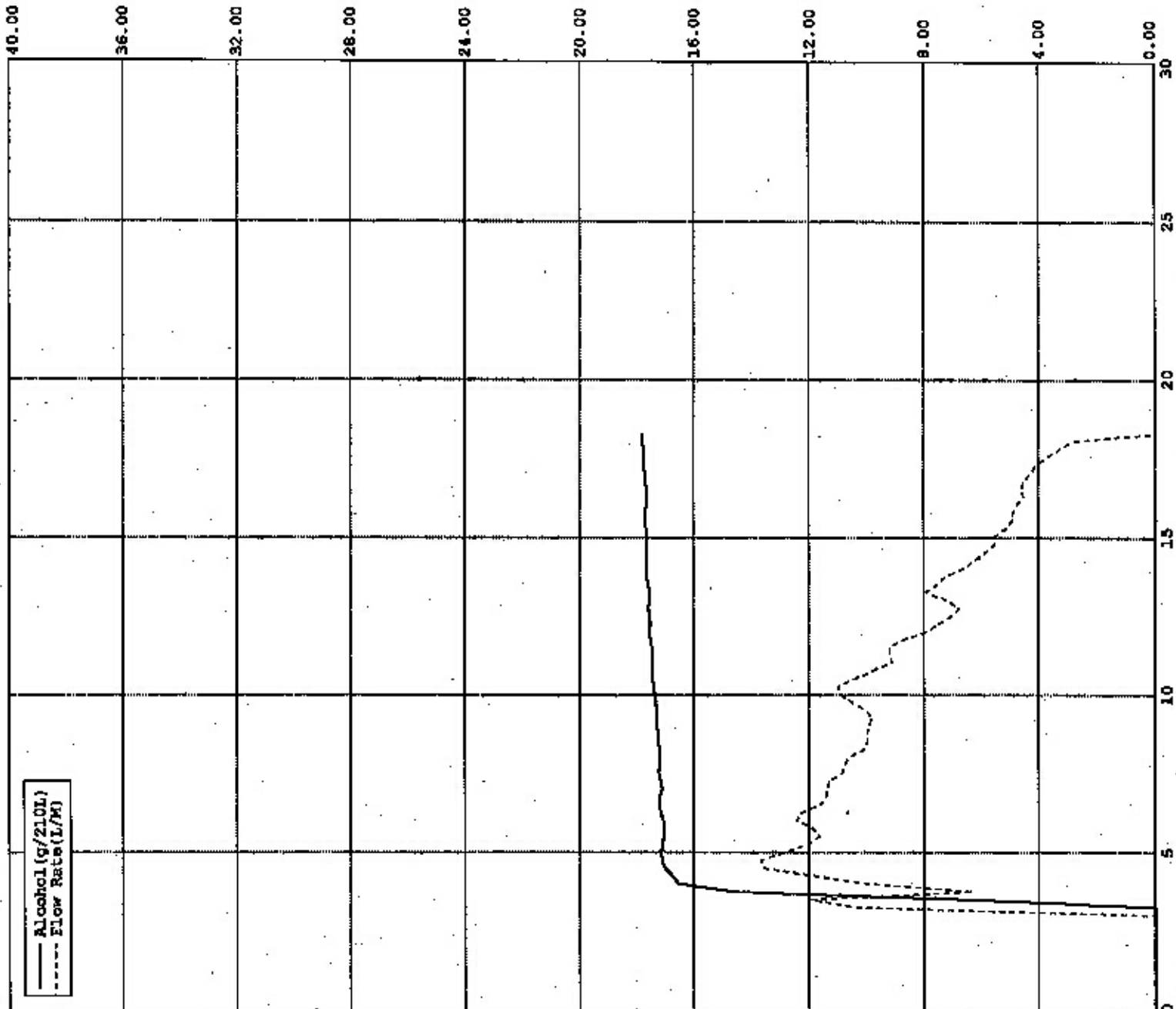
EXTERNAL STANDARD INFORMATION

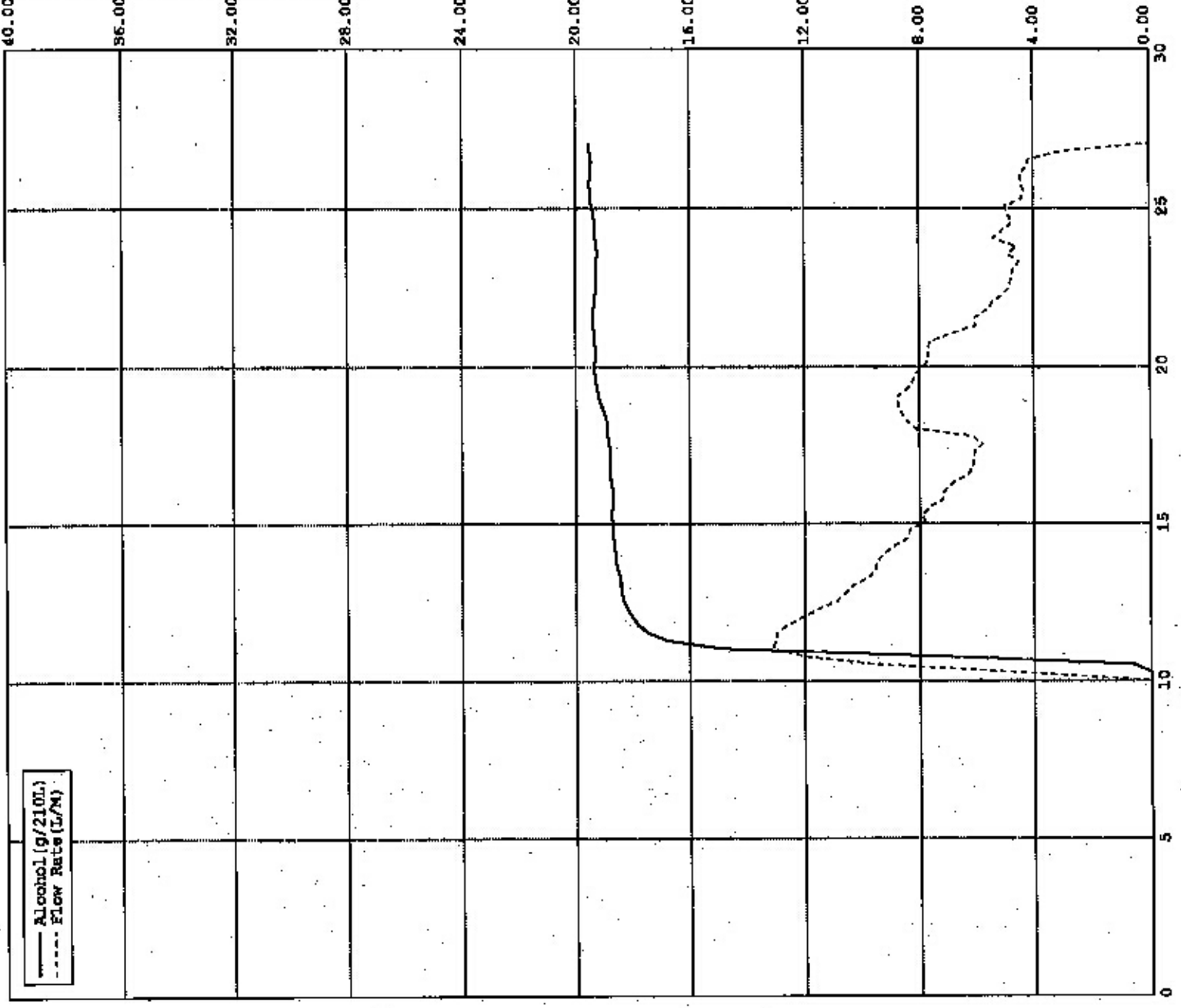
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	13:44
BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:45
EXTERNAL STANDARD	0.081	13:45
BLANK TEST	0.000	13:46
SUBJECT SAMPLE	INTERFERENCE	13:46

BMS

15/18





SUBJECT TEST

Alaska Department of Public Safety
 DRAMMASTER dmt: 100382

Date: 03/18/2011
 Time: 13:55:47

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

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

DEPT/AGENCY:
 XXXX

CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.99: 0.080
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	13:56
BLANK TEST	0.000	13:56
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.080	13:57
BLANK TEST	0.000	13:58
SUBJECT SAMPLE	INTERFERENCE	13:58

Handwritten signature: BMB
Handwritten date: 16/10/2011

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100382

Date: 03/18/2011
Time: 13:33:08

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
RADIO FREQUENCY INTERFERE
OPERATOR'S #: EEE

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

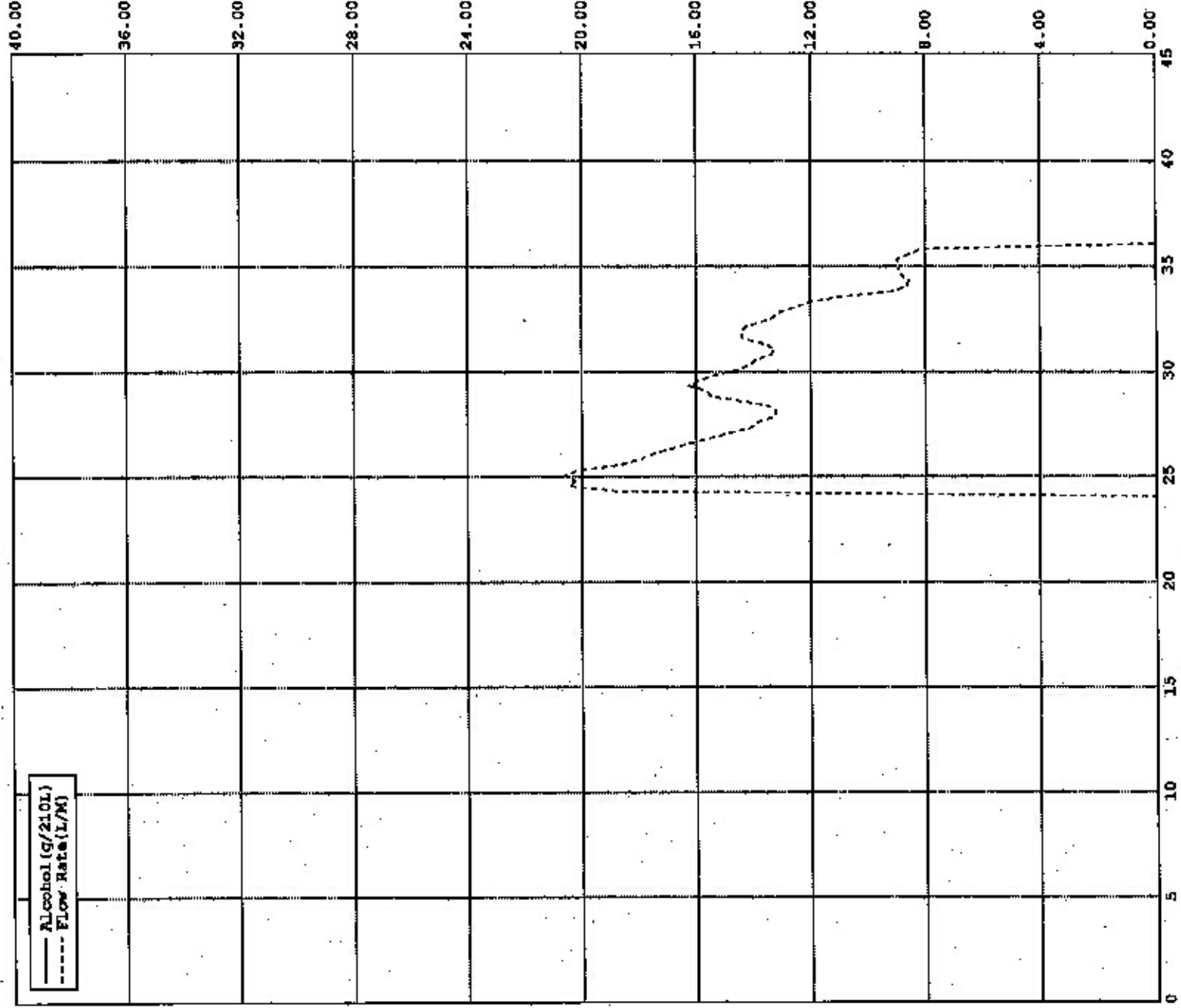
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.99: 0.080
LOT #: 3360900A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	13:34
BLANK TEST	0.000	13:34
INTERNAL STANDARD	VERIFIED	13:34
EXTERNAL STANDARD	0.078	13:34

RFI Detected

17/180MB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100382

Date: 03/18/2011
 Time: 14:21:41

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.99: 0.080
 LOT #: 3360980A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:22
BLANK TEST	0.000	14:22
INTERNAL STANDARD	VERIFIED	14:23
EXTERNAL STANDARD	0.079	14:23
BLANK TEST	0.000	14:24
SUBJECT SAMPLE	0.000	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.080	14:26
BLANK TEST	0.000	14:26

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18/1808MB

Final page for report

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7/3/2014