

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 01/27/2012
Effective: 01/27/2012

Version: DMCEF2012 R0
Status: Active

Instrument S/N 100364Analyst Brandi BarnettStart Date 3/2/12

Updated software to 2.00 + USB Fixer Run BMB 3/2/12
Diagnostic Test (attached) ☒ Verified rear vented 3/2/12 BMB

1. Voltage Checks

a. Adjust voltages, if needed ☒

i. Lamp (2.6V Maximum)

ii. Bias (80V)

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)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1500 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/2013iv. 0.100g/210L Mnf ILMO Lot 0761100A3 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/20131. Simulator S/N SD1176 Date Calibrated 8/17/2011vi. 0.300g/210L Mnf Guth Lot 1110 Exp 08/07/20131. Simulator S/N SD1202 Date Calibrated 8/17/2011

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/121. Simulator S/N DRL6267 Date Calibrated 01/10/12d. RFI ☒6. Verify stylus is calibrated ☒7. Verify card reader is functional ☒8. Reset Options ☒9. Clear Memory ☒10. Verification of Calibration ☒11. Non-Drinking Subject Test (attached) ☒12. Upload ☒

13. Update agency information and polling

status in DM Host Calling Program 11/10/12 BMBEnd Date 3/6/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 03/02/2012
Time: 12:49:06

VERSIONS

DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

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

PUMP INFO

Flow Rate = 4.381 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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2/18 BMB

Technician Screen

DATAMASTER dmt: 100364

Date: 03/02/2012

Time: 12:53 PM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 48.0°C

Current Barometer 29.2 in

Volume (Ltr) 1.57

Settings

Lamp: 1.94 V

Bias: 78 V

Cooler: 1.63 V

Chopper: 543 Hz

Voltages (V)

Flow: 1.03 V

Detector: 0.491 V

3/10/08
MB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 04/12/2011
Time: 13:44:36

OPERATOR NAME:
BRANDI M BARNETT
CERTIFICATE #: 7038

LOT #: GUTH
BOTTLE #: 10260
EXPIRATION: 10/25/2012

Ca	=	0.1000		
CAL	=	0.969850	0.800	<= CAL < 1.200
b1	=	0.0001	0.0000	<= b1 < 0.0040
b2	=	0.0054	0.0010	<= b2 < 0.0100
b3	=	0.0004	0.0000	<= b3 < 0.0040
Xq	=	0.0957	0.0500	<= Xq < 0.2000
a21	=	1.171755	1.050	<= a21 < 1.300
a31	=	0.591985	0.300	<= a31 < 0.800

4/18/11 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100364

Date: 03/02/2012
 Time: 12:55:07

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

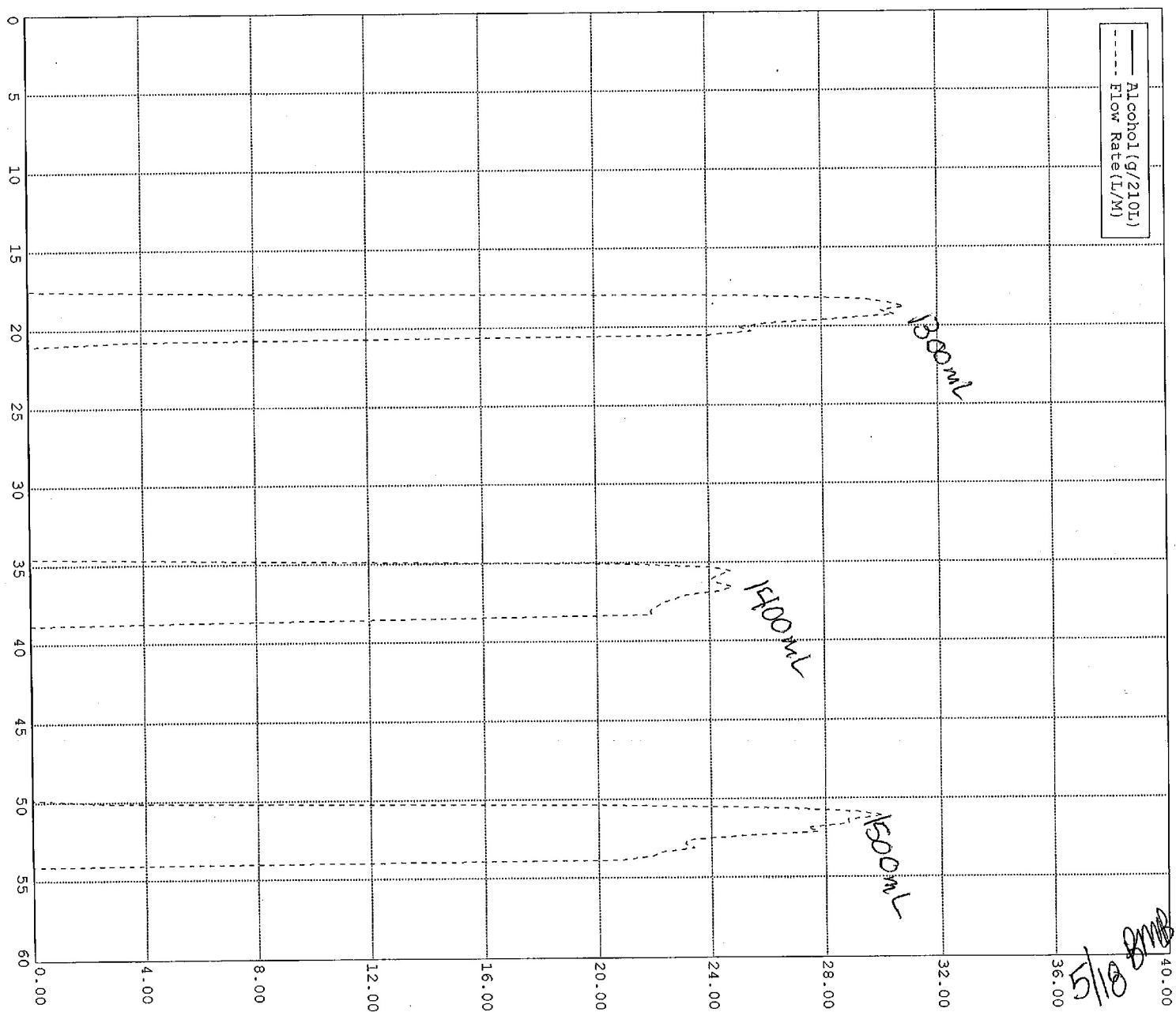
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.21: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	12:56
BLANK TEST	0.000	12:56
INTERNAL STANDARD	VERIFIED	12:56
EXTERNAL STANDARD	0.076	12:56
BLANK TEST	0.000	12:57
SUBJECT SAMPLE	0.000	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.077	12:59
BLANK TEST	0.000	13:00

Brandi Barnett



LINEARITY CHECK

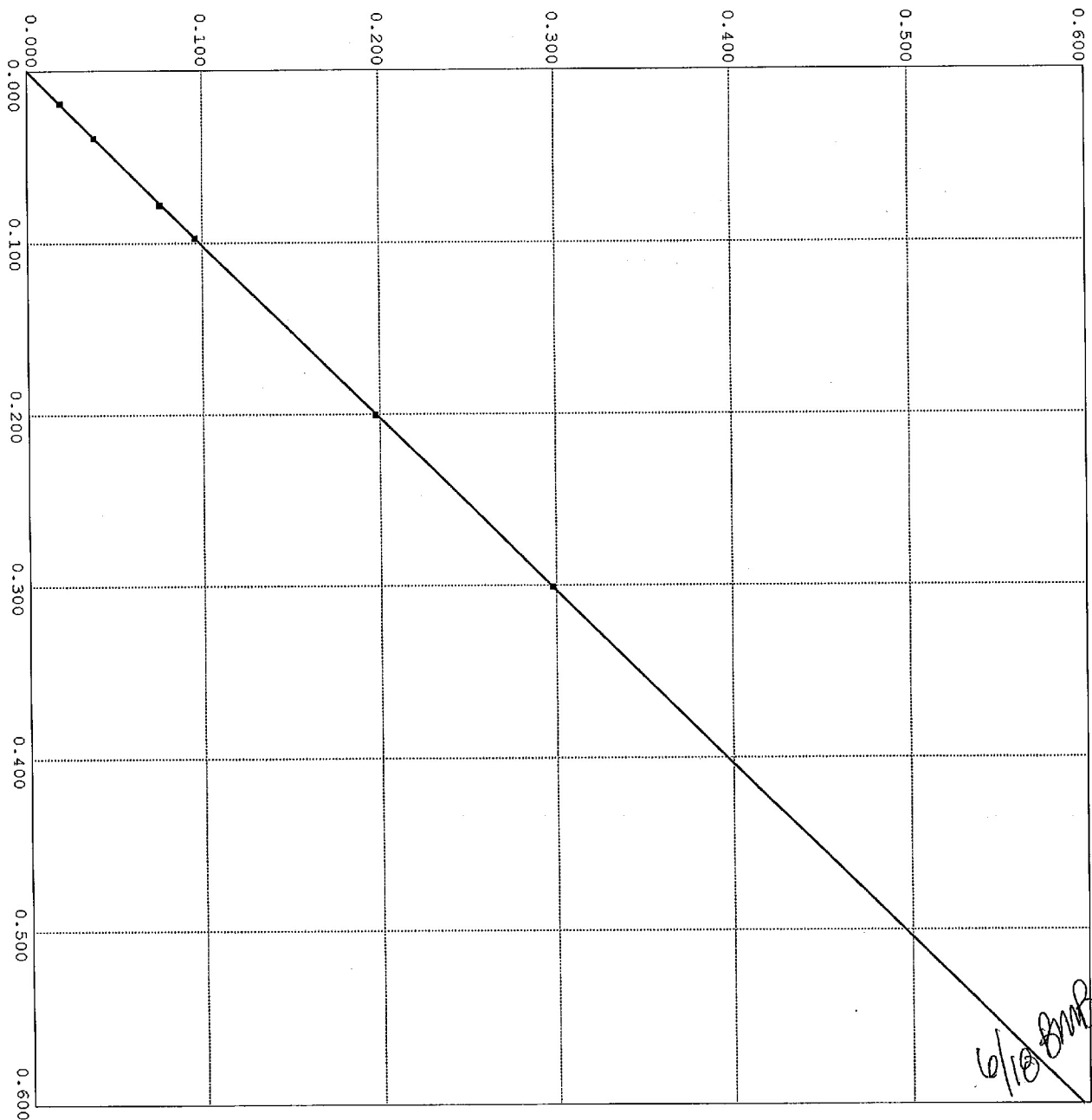
Alaska Department of Public Safety
 DATAMASTER dmt: 100364

Date: 03/02/2012
 Time: 13:13:56

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0196	0.0002
0.039	0.0391	0.0002
0.078	0.0768	0.0003
0.097	0.0966	0.0002
0.200	0.1983	0.0017
0.300	0.2987	0.0006

SLOPE = 0.993711
 R^2 = 0.999970



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100364

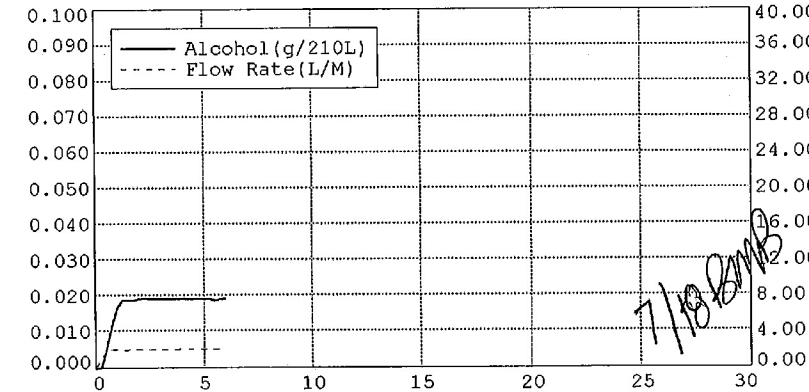
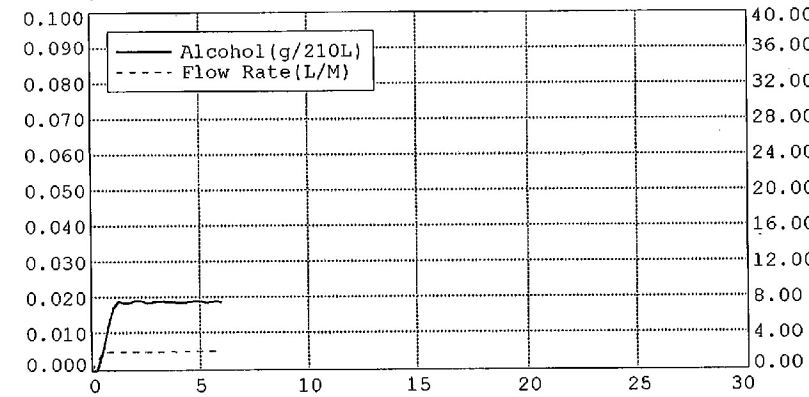
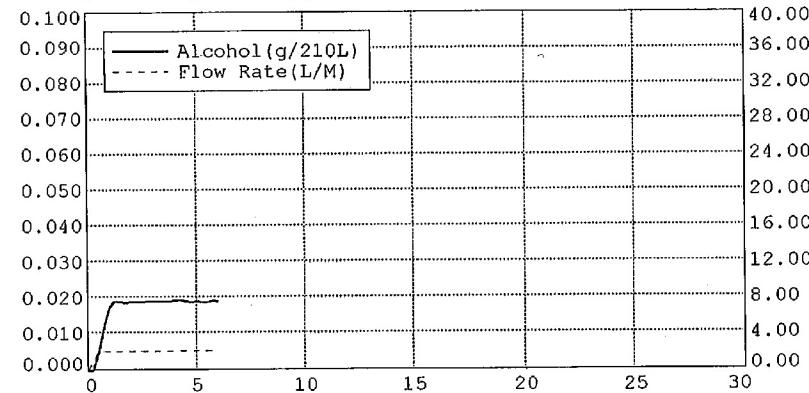
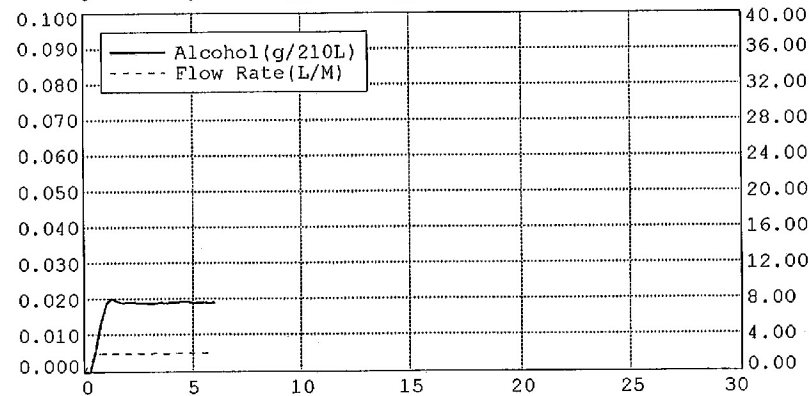
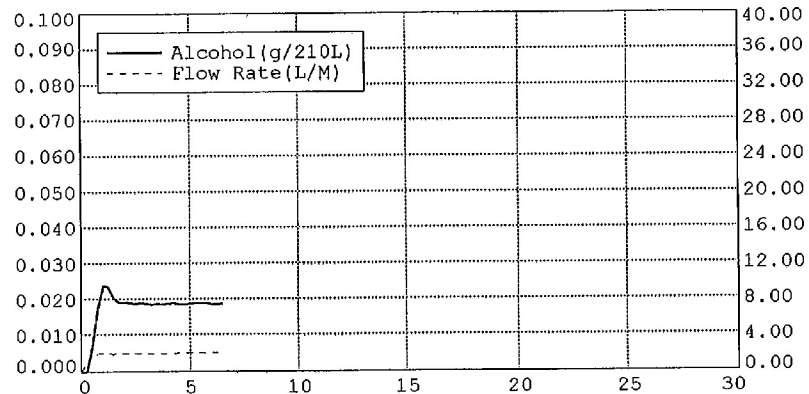
Date: 03/02/2012
Time: 13:13:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.22: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.019	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.019	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.019	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.019	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.019	13:19
BLANK TEST	0.000	13:20

Average = 0.0196
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100364

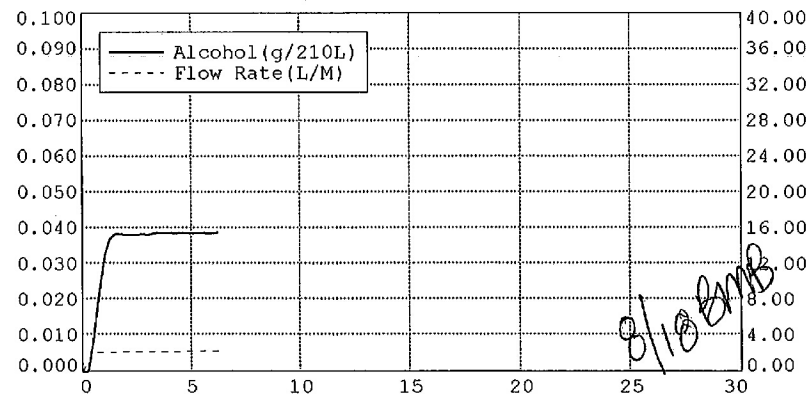
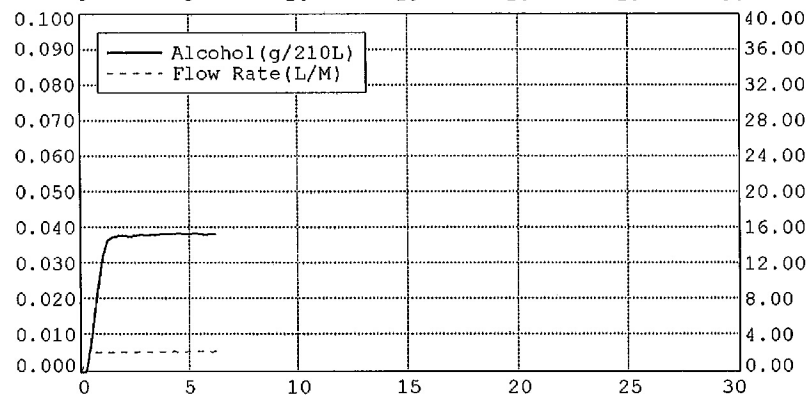
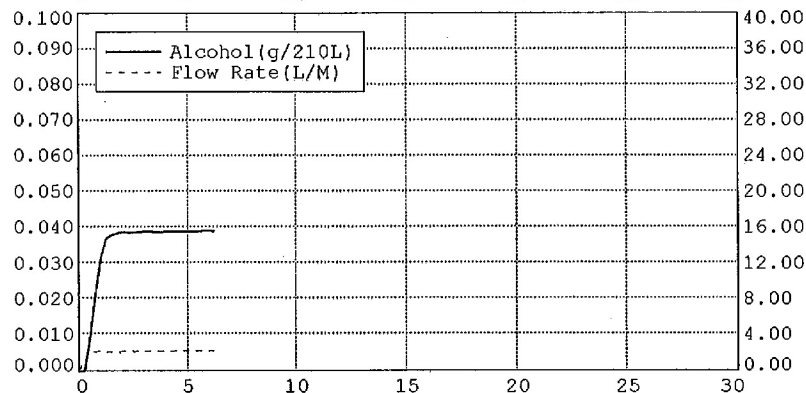
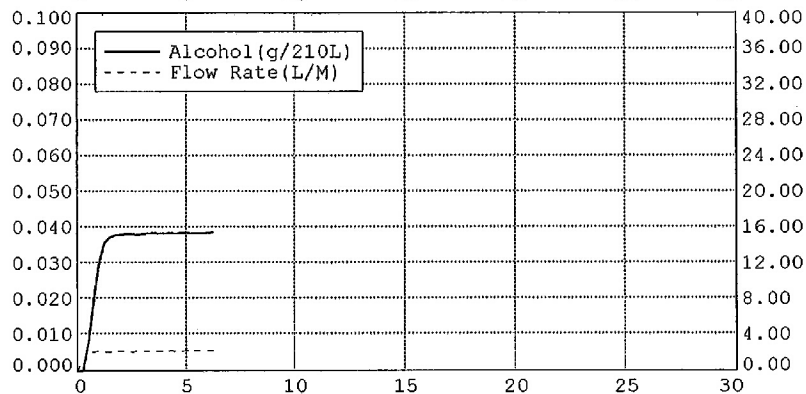
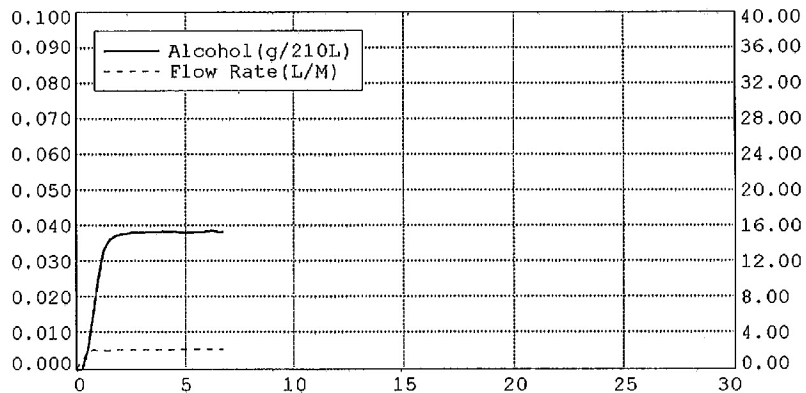
Date: 03/02/2012
Time: 13:24:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.22: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:26
INTERNAL STANDARD	VERIFIED	13:26
EXTERNAL STANDARD	0.038	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.039	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.039	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.038	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.039	13:30
BLANK TEST	0.000	13:31

Average = 0.0391
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100364

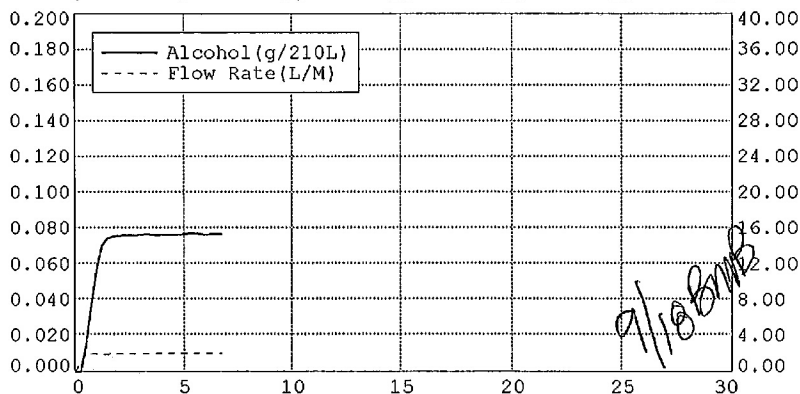
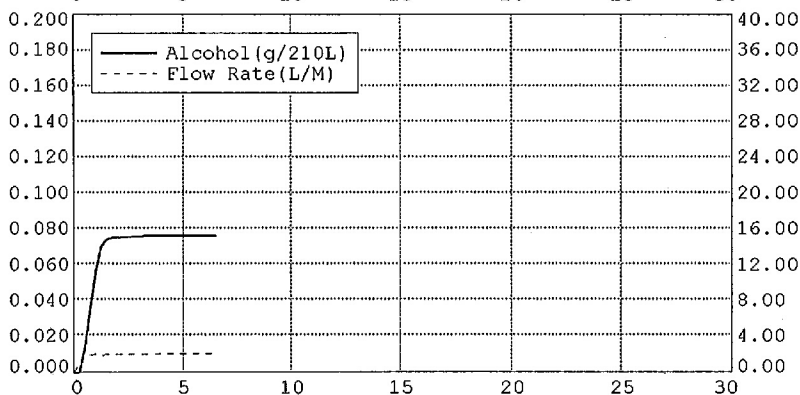
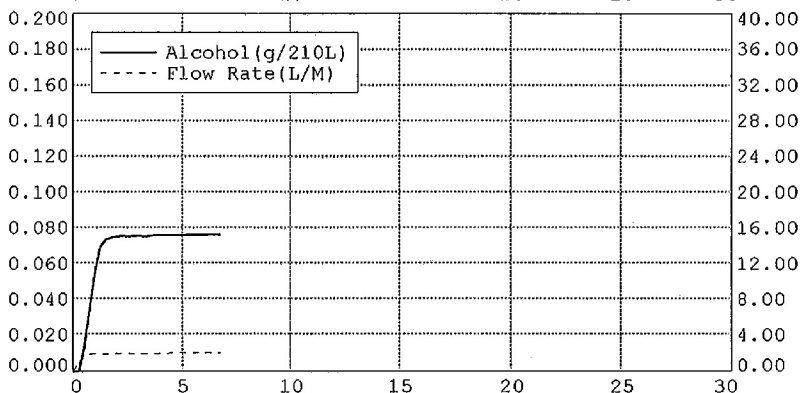
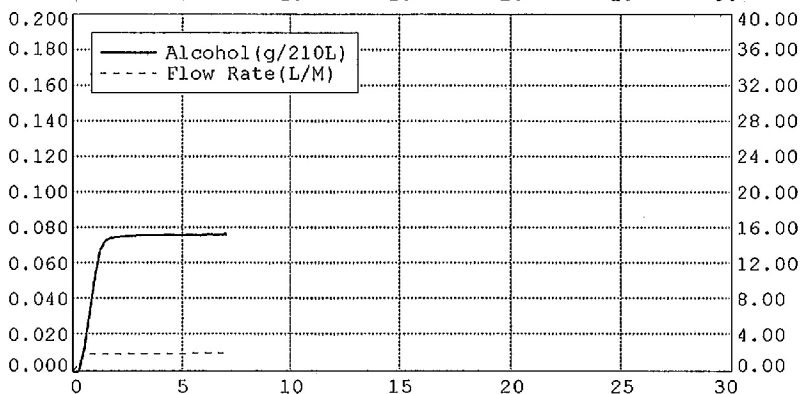
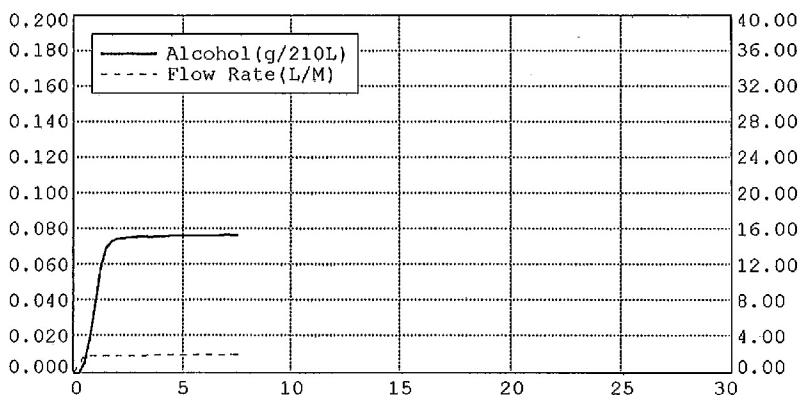
Date: 03/02/2012
Time: 13:36:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.21: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:37
INTERNAL STANDARD	VERIFIED	13:37
EXTERNAL STANDARD	0.077	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.076	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.076	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.076	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.077	13:42
BLANK TEST	0.000	13:43

Average = 0.0768
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

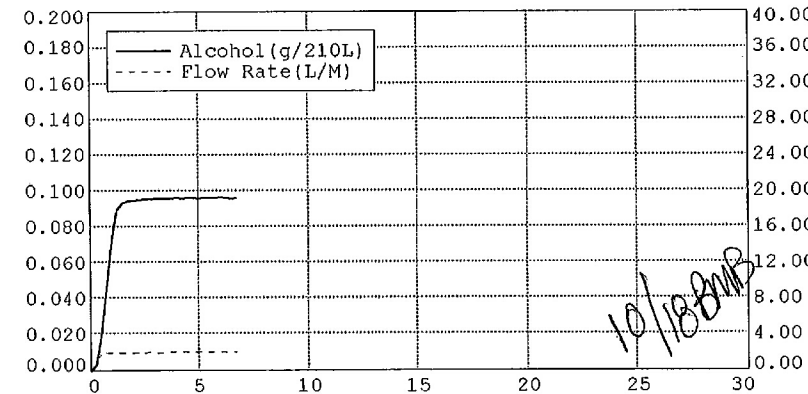
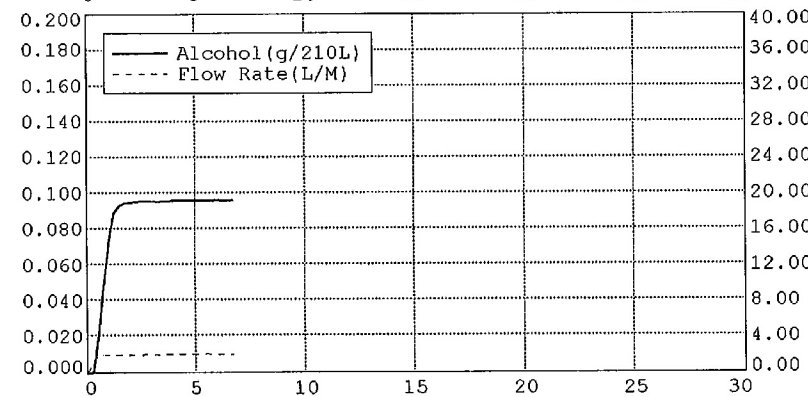
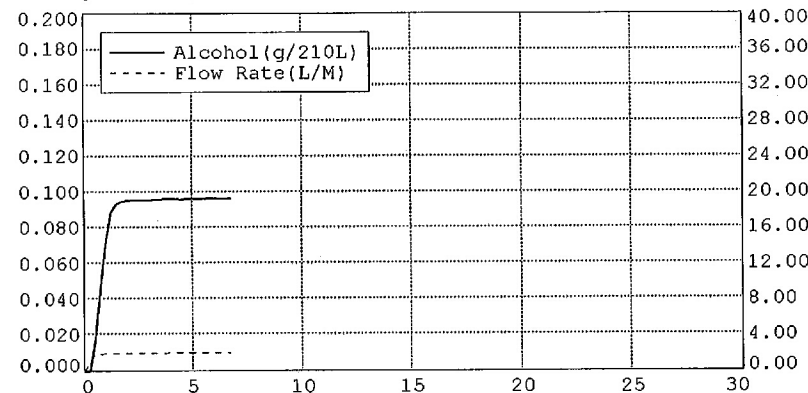
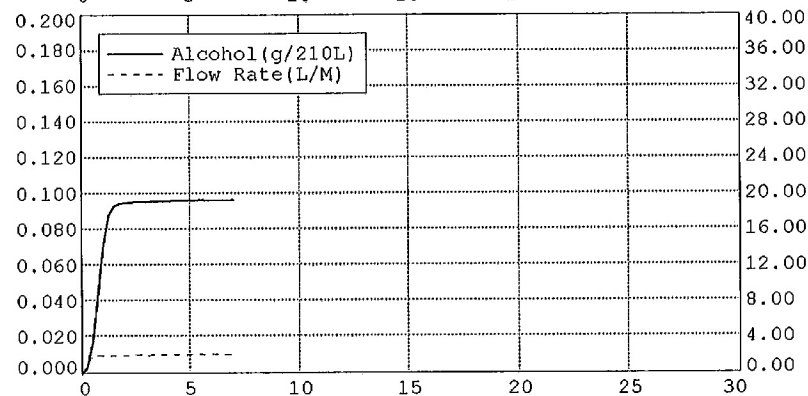
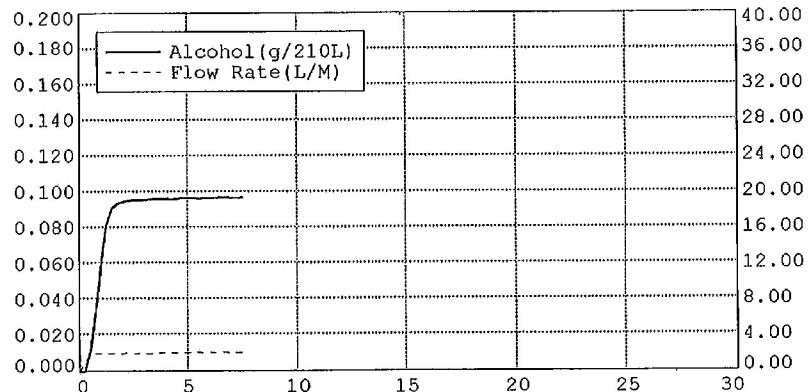
Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 03/02/2012
Time: 13:46:33

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.22: 0.097
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.096	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.096	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.096	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.096	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.096	13:52
BLANK TEST	0.000	13:53

Average = 0.0966
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100364

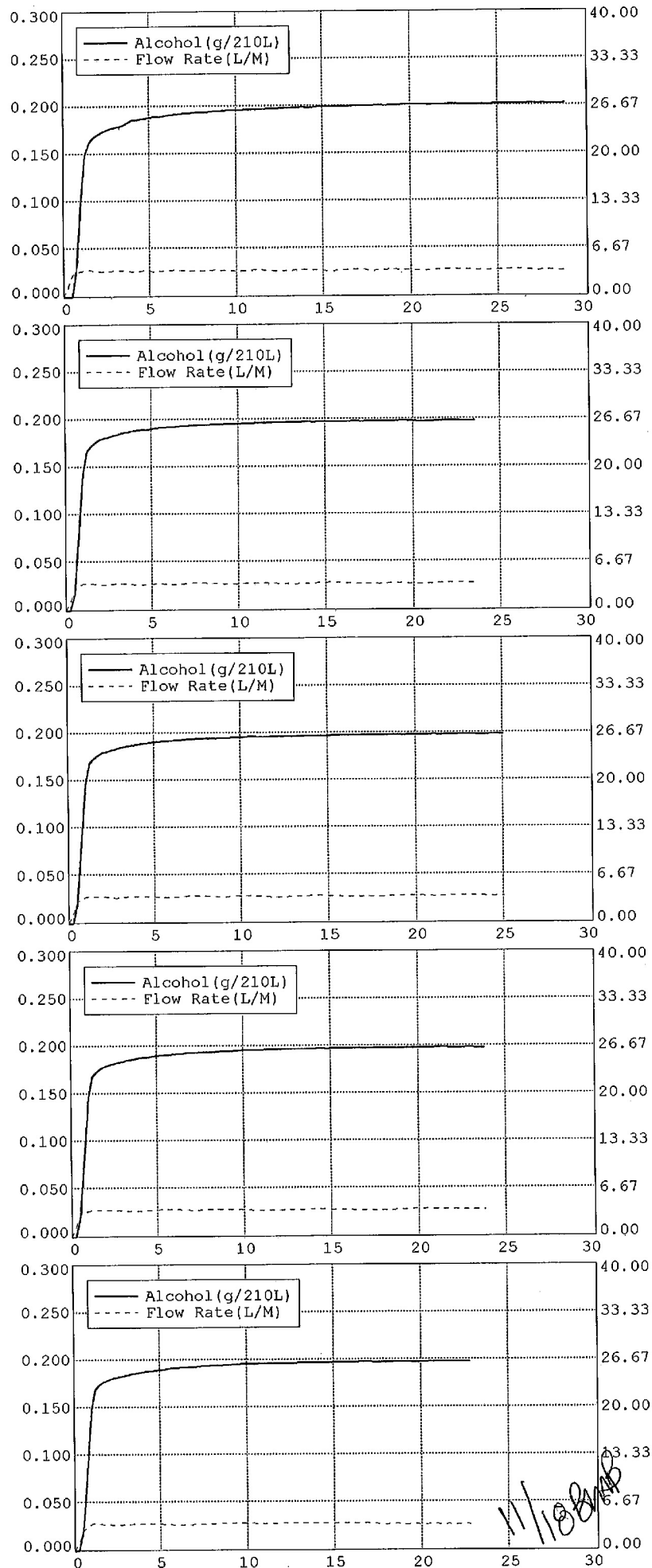
Date: 03/02/2012
Time: 13:55:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

BLANK TEST	0.000	13:56
INTERNAL STANDARD	VERIFIED	13:56
EXTERNAL STANDARD	0.201	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.197	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.197	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.197	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.197	14:03
BLANK TEST	0.000	14:03

Average = 0.1983
Std Dev = 0.0017



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100364

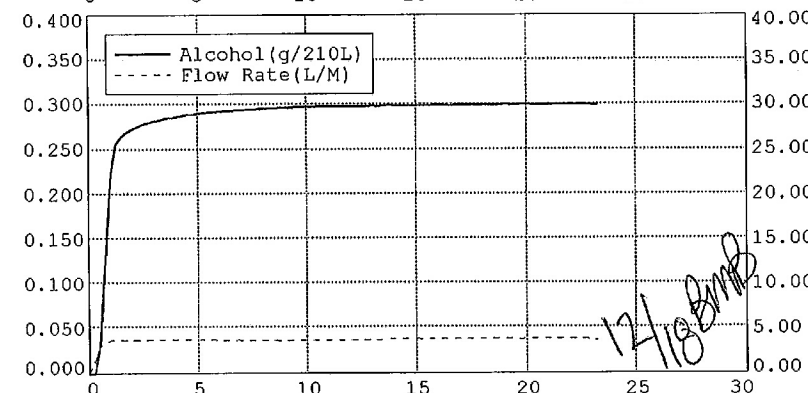
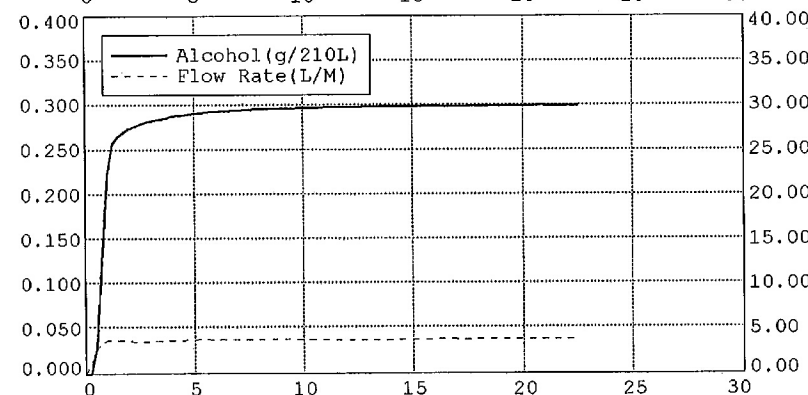
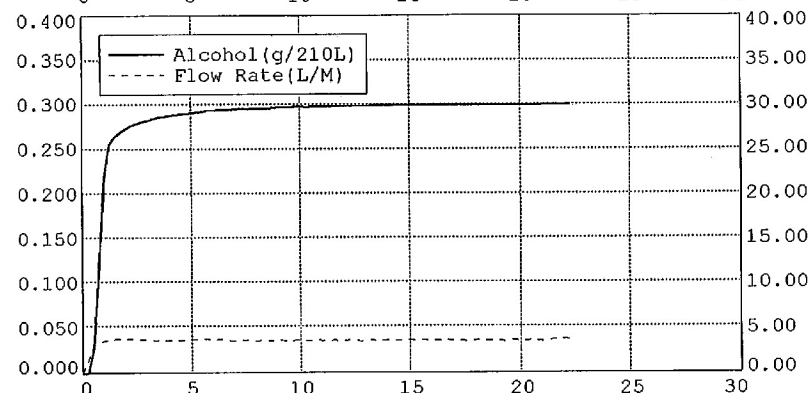
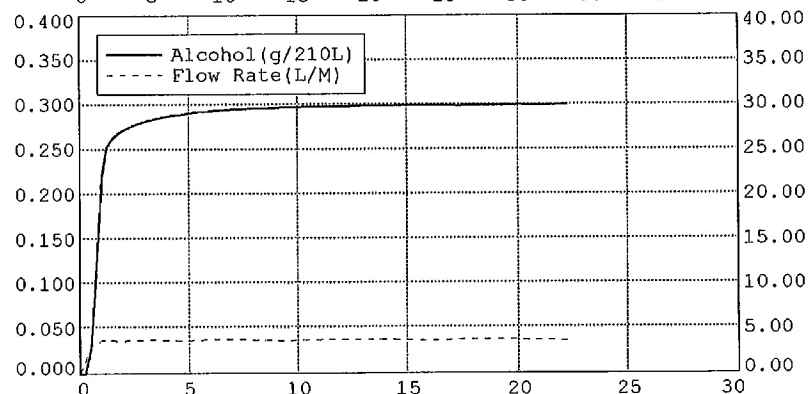
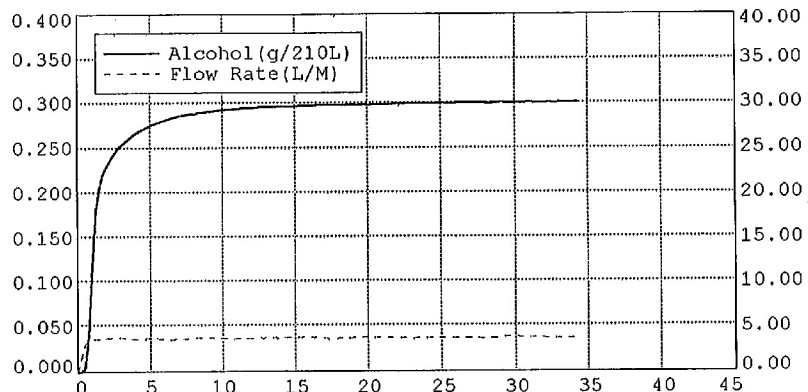
Date: 03/02/2012
Time: 14:10:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 11110
EXPIRATION: 07/13/2013

BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.299	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.298	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.298	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.298	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.298	14:18
BLANK TEST	0.000	14:19

Average = 0.2987
Std Dev = 0.0006



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 03/05/2012
Time: 12:43:22

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

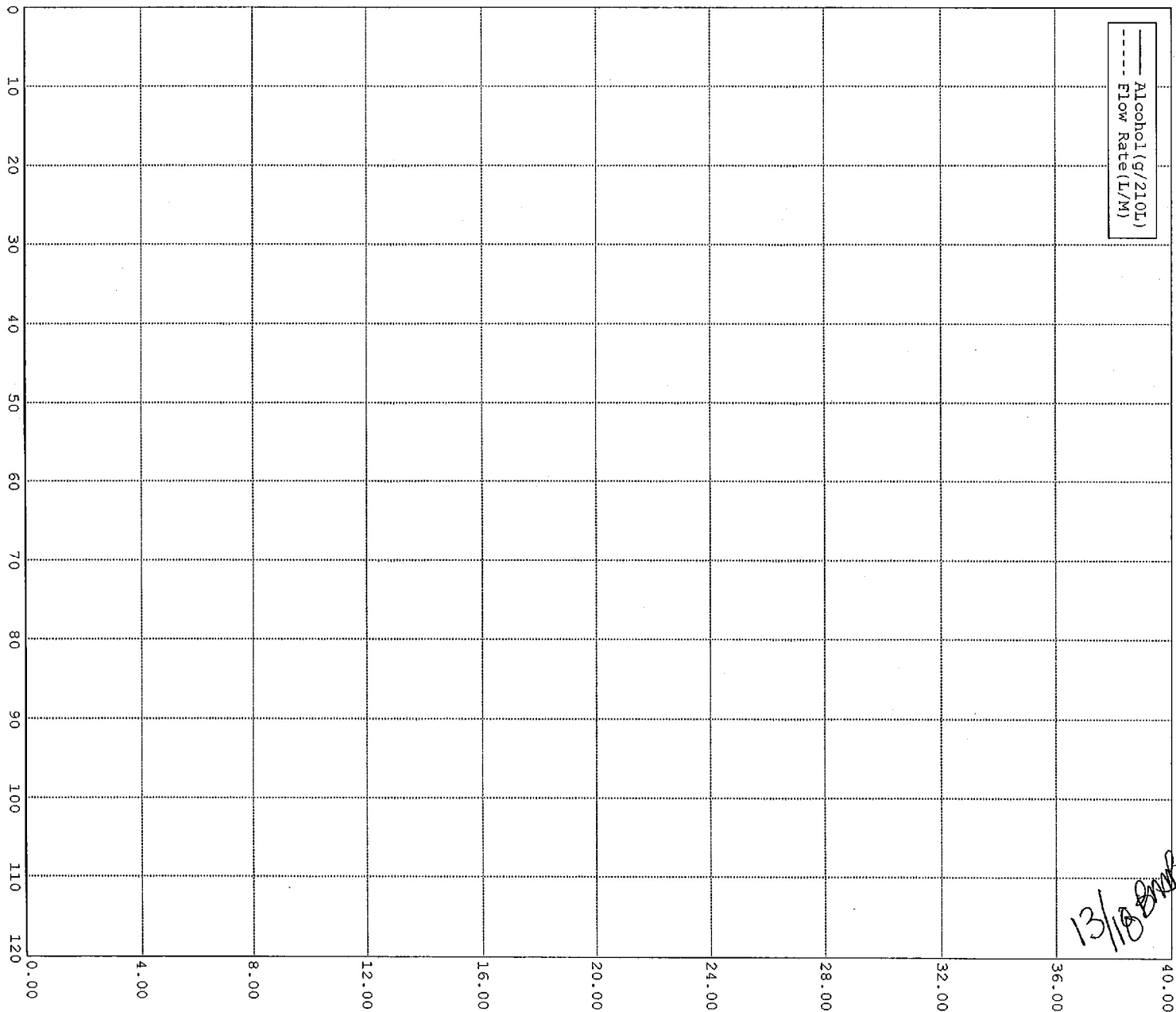
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.88: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	12:45
BLANK TEST	0.000	12:45
INTERNAL STANDARD	VERIFIED	12:45
EXTERNAL STANDARD	0.079	12:45
BLANK TEST	0.000	12:46
SUBJECT SAMPLE	INCOMPLETE	12:49

BRMB

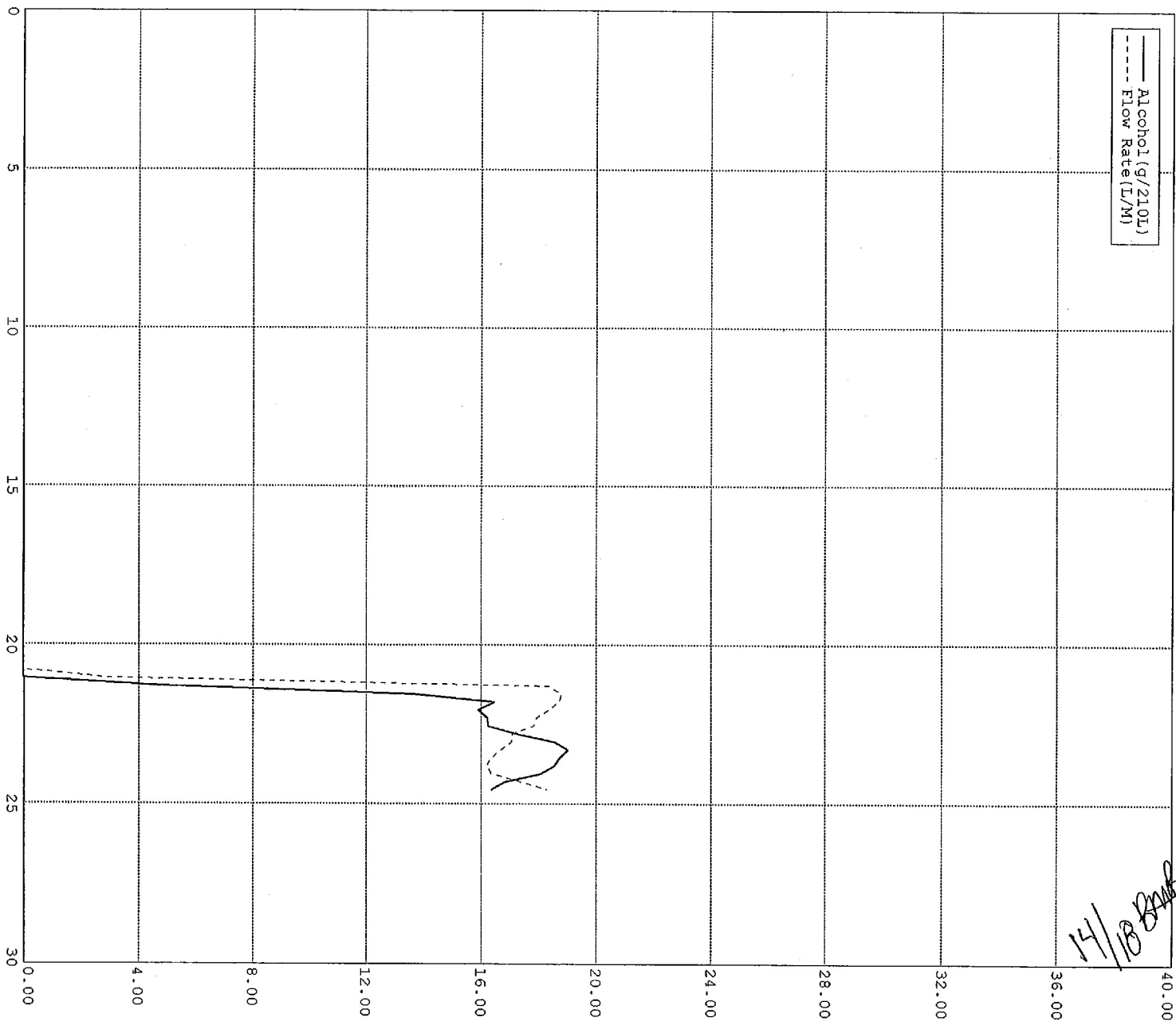


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100364Date: 03/05/2012
Time: 14:18:48SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI M BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INVALID KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.82: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:21
BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
EXTERNAL STANDARD	0.077	14:22
BLANK TEST	0.000	14:23
SUBJECT SAMPLE	INVALID	14:24

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100364

Date: 03/05/2012
Time: 14:35:45

SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERE

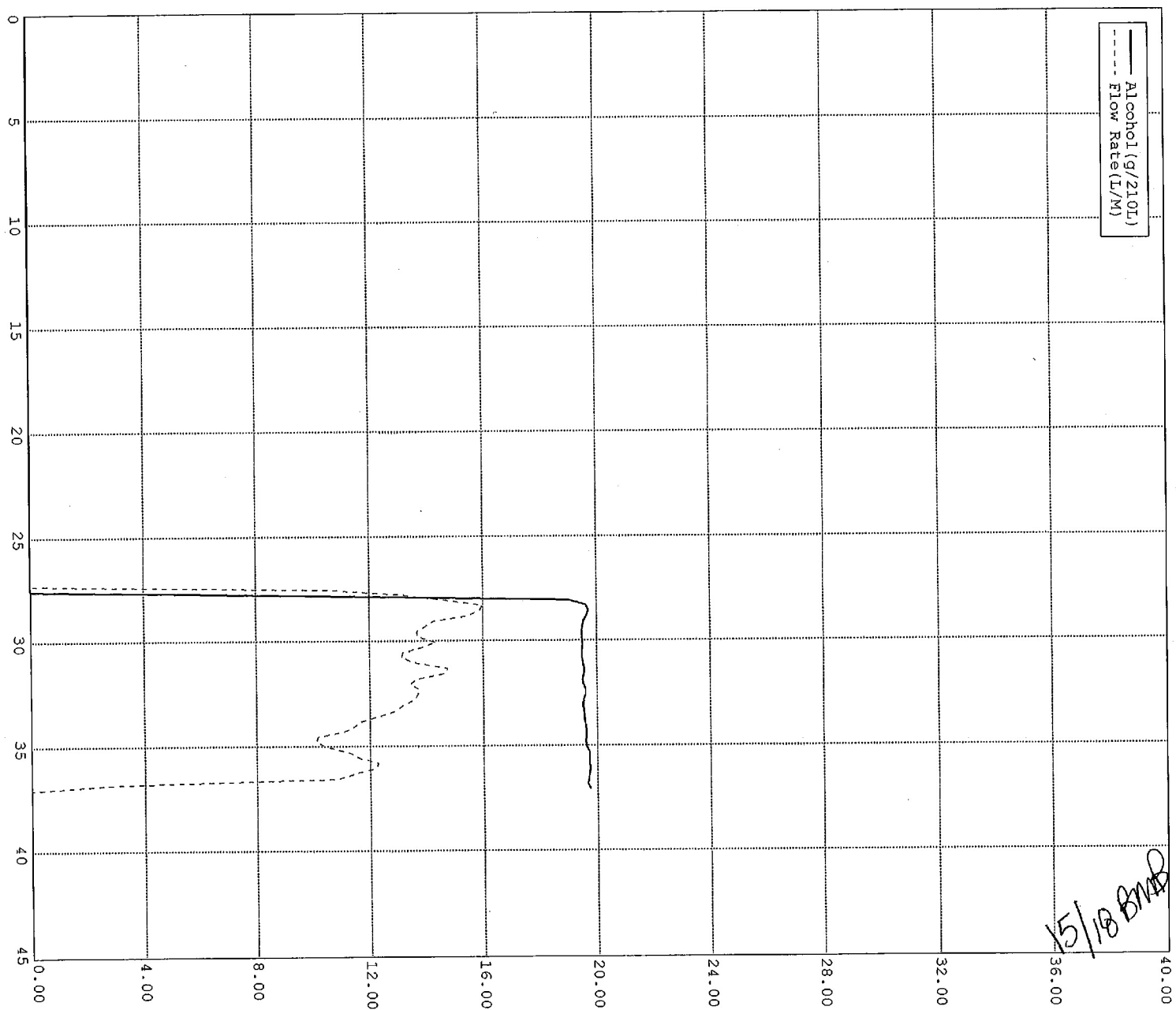
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
ISOPROPANOL AND ETHANOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.82: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:36
BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:37
EXTERNAL STANDARD	0.078	14:37
BLANK TEST	0.000	14:38
SUBJECT SAMPLE	INTERFERENCE	14:38

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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100364

Date: 03/05/2012
 Time: 14:41:59

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

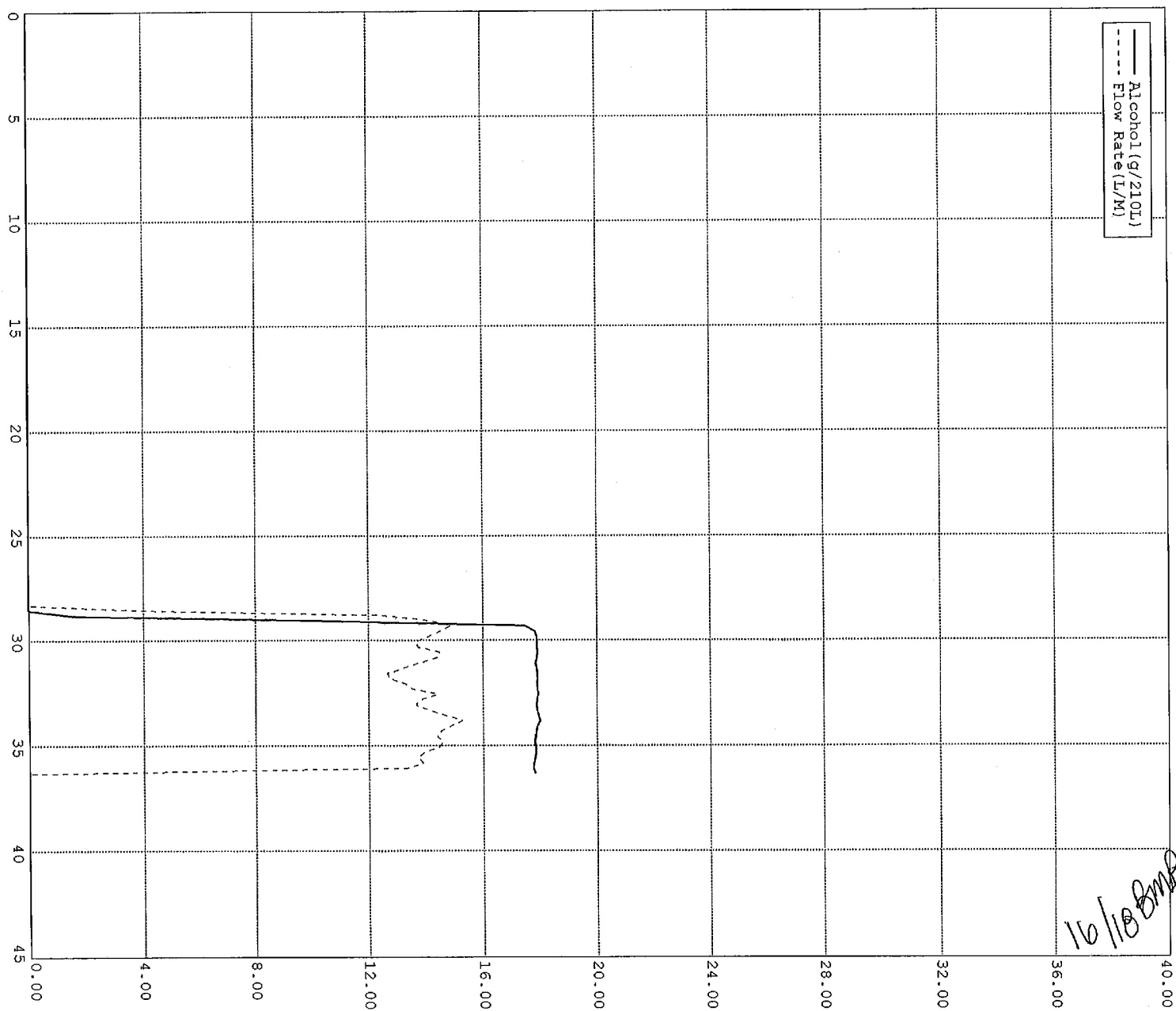
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 ACETONE AND ETHANOL
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.82: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:42
BLANK TEST	0.000	14:43
INTERNAL STANDARD	VERIFIED	14:43
EXTERNAL STANDARD	0.078	14:43
BLANK TEST	0.000	14:44
SUBJECT SAMPLE	INTERFERENCE	14:45

Brandi Barnett



16/10/08 MB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100364

Date: 03/05/2012
Time: 14:28:14

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

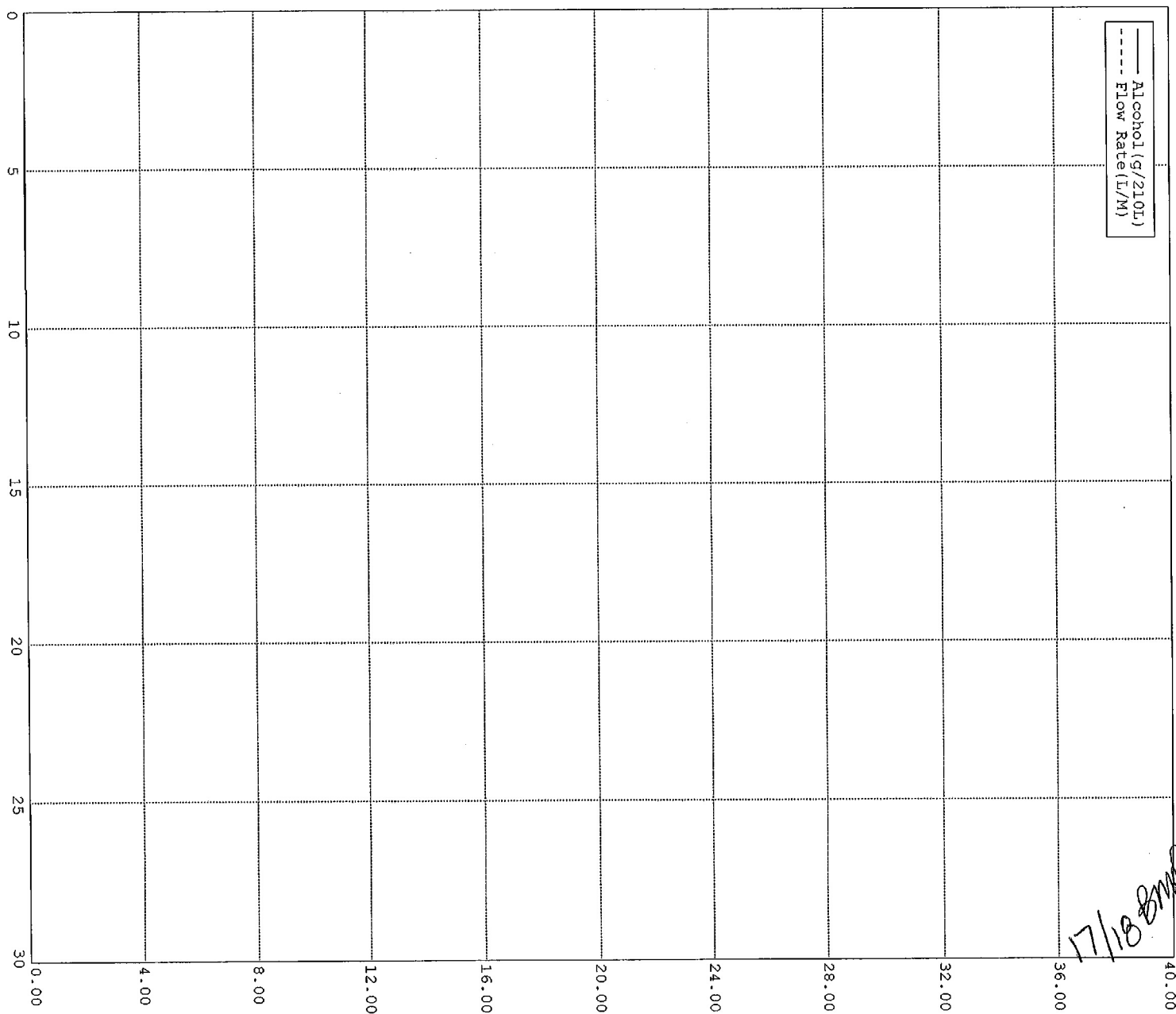
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
RADIO FREQUENCY INTERFERE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.82: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:30
BLANK TEST	0.000	14:30
INTERNAL STANDARD	VERIFIED	14:30
EXTERNAL STANDARD	0.078	14:30
BLANK TEST	0.000	14:31

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100364

Date: 03/05/2012
 Time: 15:33:39

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.77: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:35
BLANK TEST	0.000	15:35
INTERNAL STANDARD	VERIFIED	15:35
EXTERNAL STANDARD	0.078	15:35
BLANK TEST	0.000	15:36
SUBJECT SAMPLE	0.000	15:37
BLANK TEST	0.000	15:37
EXTERNAL STANDARD	0.078	15:38
BLANK TEST	0.000	15:39

BBMB

