

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100370 Analyst Colleen Start Date 7/25/2012

Diagnostic Test (attached)

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 I/mo Lot 0761102095 Exp 03/01/2013

ii. 0.040g/210L Mnf I/mo Lot 0761104094 Exp 03/01/2013

iii. 0.080g/210L Mnf I/mo Lot 0201208091 Exp 03/01/2014

iv. 0.100g/210L Mnf I/mo Lot 076110093 Exp 03/01/2013

v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/2013

1. Simulator S/N SD1198 Date Calibrated 01/10/2012

vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/2013

1. Simulator S/N DR5298 Date Calibrated 09/20/2011

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/2013

1. Simulator S/N SD1199 Date Calibrated 01/11/2012

ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 07/06/2013

1. Simulator S/N DR6267 Date Calibrated 01/10/2012

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/2013

1. Simulator S/N SD1202 Date Calibrated 08/17/2011

d. 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

End Date 07/25/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 07/25/2012
Time: 10:49:52

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 48.0°C PASSED

PUMP INFO
Flow Rate = 5.263 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

0032/19

Technician Screen

DATAMASTER dmt: 100370

Date: 07/25/2012
Time: 10:56 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 47.4°C

Current Barometer 30.2 in
Volume (Ltr) 1.44

Settings

Lamp: 1.77 V
Bias: 80 V
Cooler: 1.76 V
Chopper: 541 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.027 V

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CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 09/13/2010
Time: 17:02:07

Ca = 0.1000
CAL = 0.985723 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0023 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0889 0.0500 <= Xq < 0.2000
a21 = 1.164153 1.050 <= a21 < 1.300
a31 = 0.465013 0.300 <= a31 < 0.800

0034/19

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 07/25/2012
 Time: 07:05:50

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

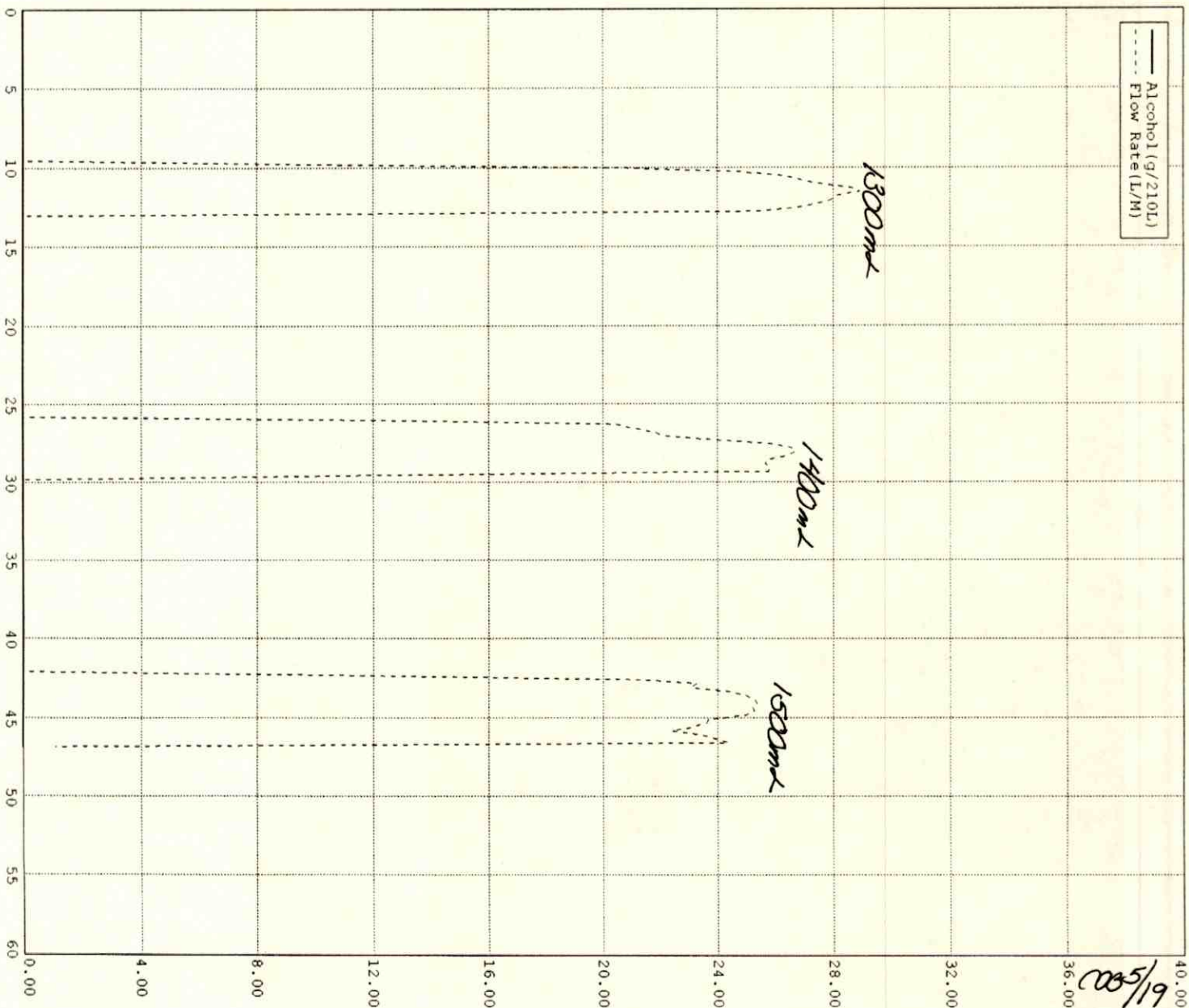
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.15: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	07:07
BLANK TEST	0.000	07:07
INTERNAL STANDARD	VERIFIED	07:08
EXTERNAL STANDARD	0.080	07:08
BLANK TEST	0.000	07:09
SUBJECT SAMPLE	0.000	07:10
BLANK TEST	0.000	07:10
EXTERNAL STANDARD	0.080	07:11
BLANK TEST	0.000	07:12

CB



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100370

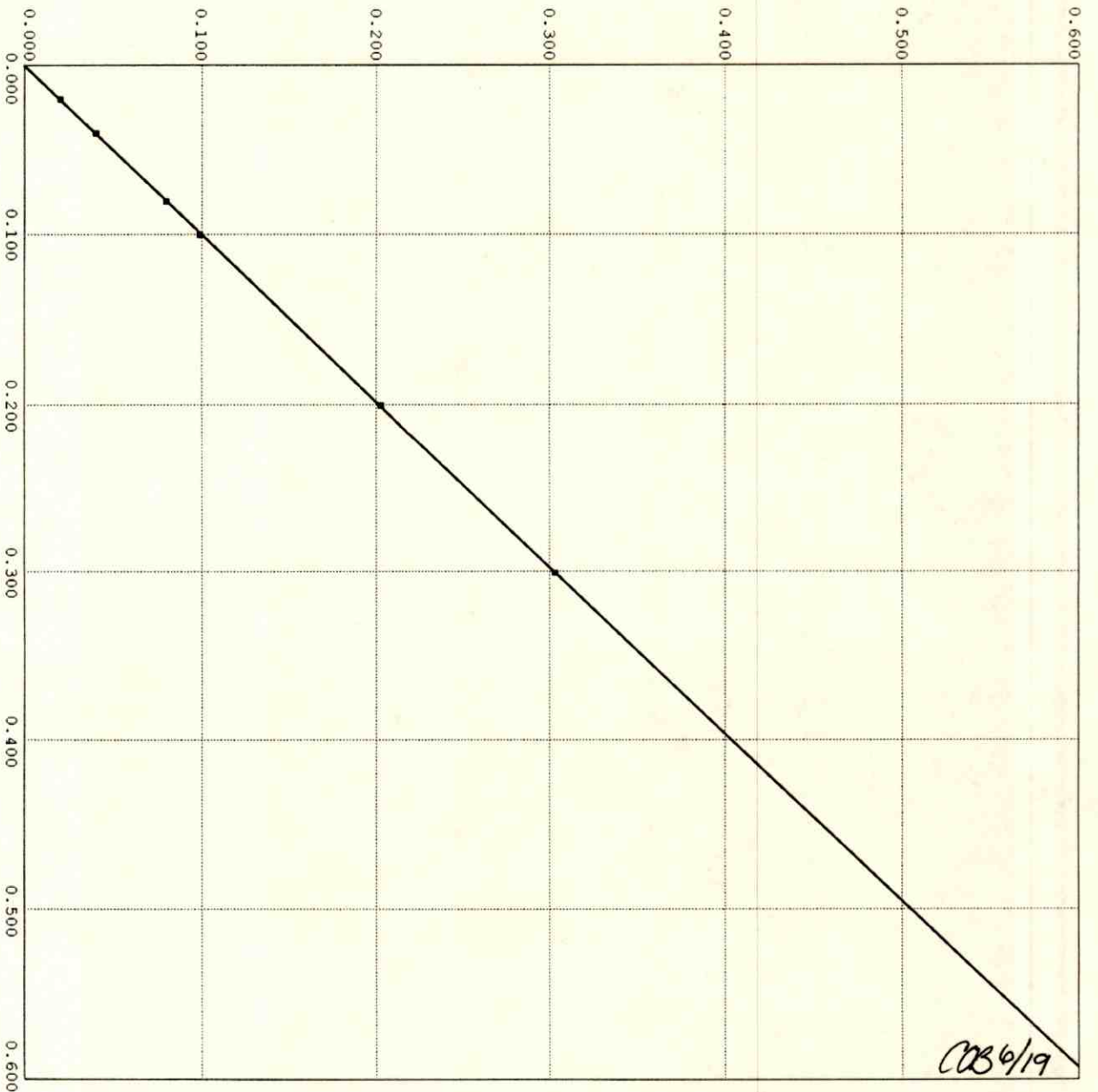
Date: 07/25/2012
Time: 07:23:55

SUPERVISOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0209	0.0002
0.040	0.0409	0.0001
0.080	0.0808	0.0003
0.100	0.0998	0.0001
0.200	0.2033	0.0003
0.300	0.3038	0.0005

SLOPE = 1.012886
R² = 0.999943

CS



CS 6/19

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

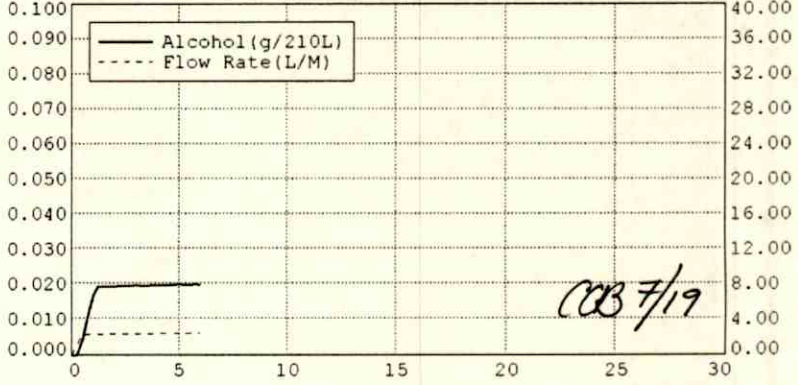
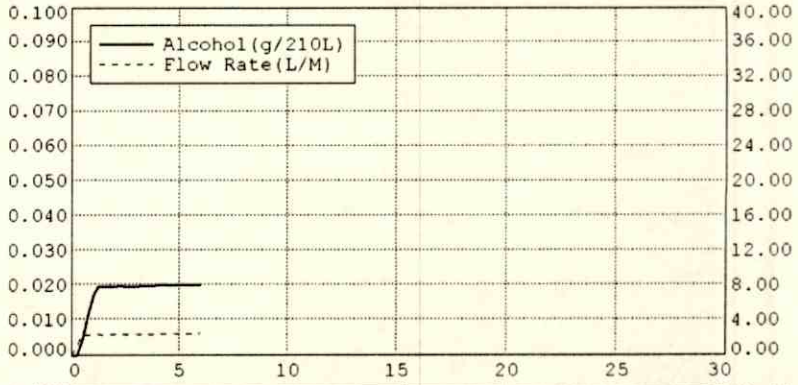
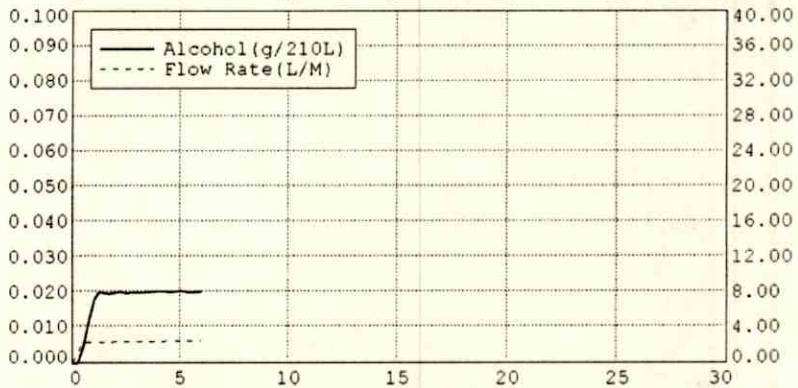
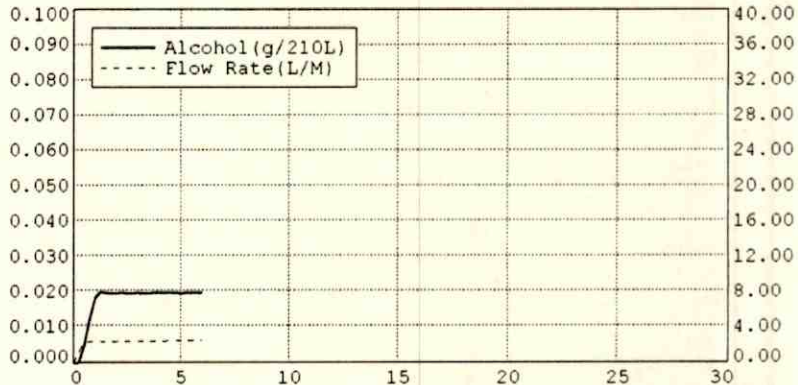
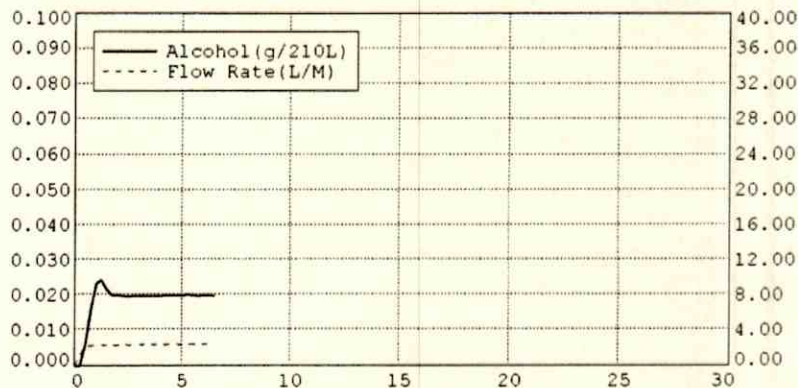
Date: 07/25/2012
 Time: 07:23:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 30.15: 0.020
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:31
INTERNAL STANDARD	VERIFIED	07:31
EXTERNAL STANDARD	0.021	07:32
BLANK TEST	0.000	07:33
EXTERNAL STANDARD	0.020	07:33
BLANK TEST	0.000	07:34
EXTERNAL STANDARD	0.021	07:34
BLANK TEST	0.000	07:35
EXTERNAL STANDARD	0.021	07:35
BLANK TEST	0.000	07:36
EXTERNAL STANDARD	0.020	07:36
BLANK TEST	0.000	07:37

Average = 0.0209
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

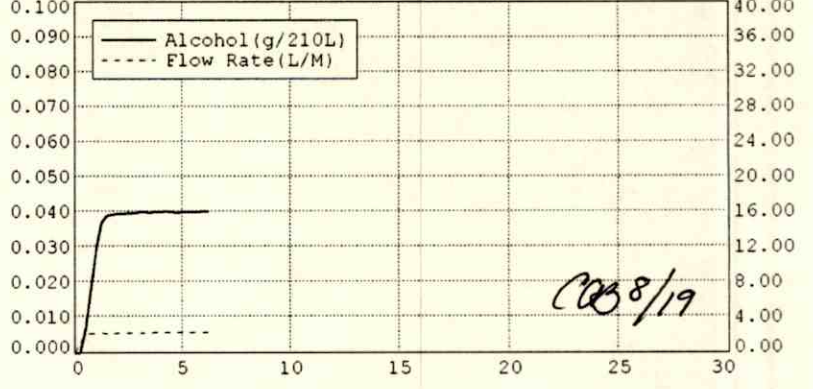
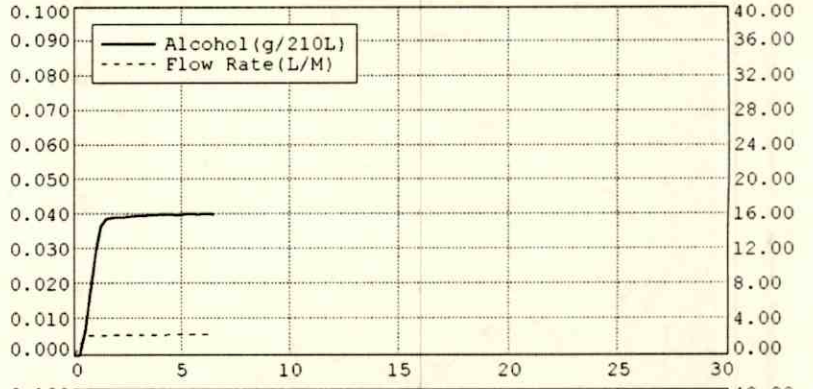
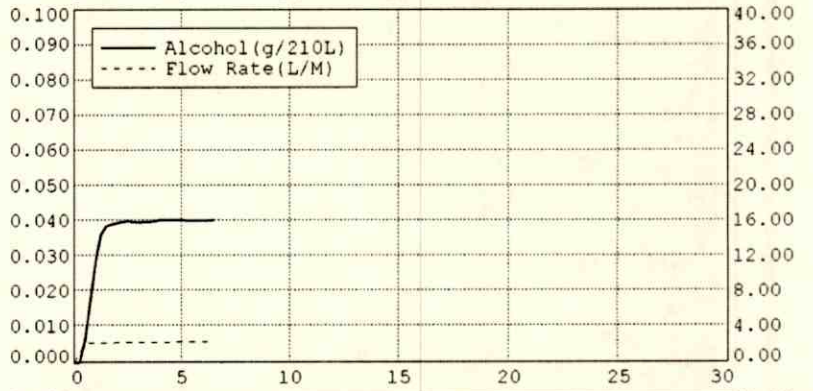
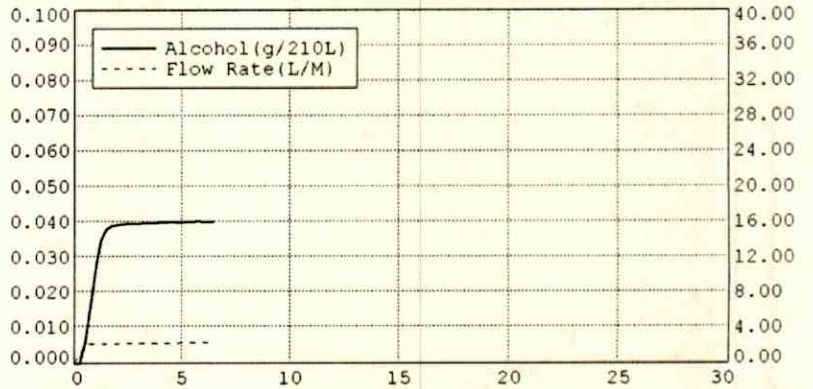
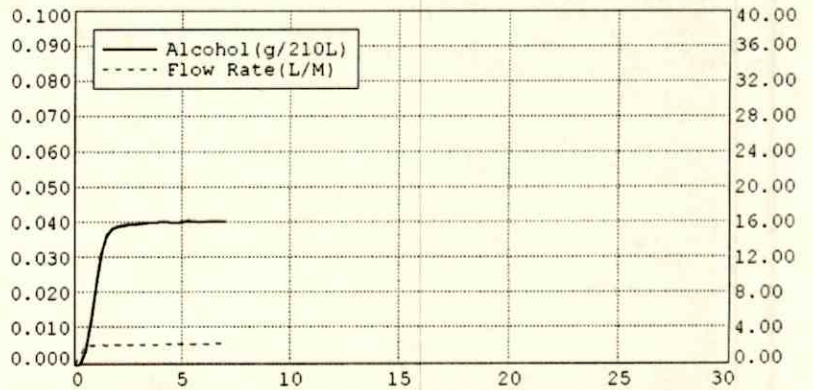
Date: 07/25/2012
 Time: 07:44:40

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 30.15: 0.040
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:46
INTERNAL STANDARD	VERIFIED	07:46
EXTERNAL STANDARD	0.041	07:46
BLANK TEST	0.000	07:47
EXTERNAL STANDARD	0.040	07:47
BLANK TEST	0.000	07:48
EXTERNAL STANDARD	0.041	07:48
BLANK TEST	0.000	07:49
EXTERNAL STANDARD	0.040	07:49
BLANK TEST	0.000	07:50
EXTERNAL STANDARD	0.040	07:50
BLANK TEST	0.000	07:51

Average = 0.0409
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

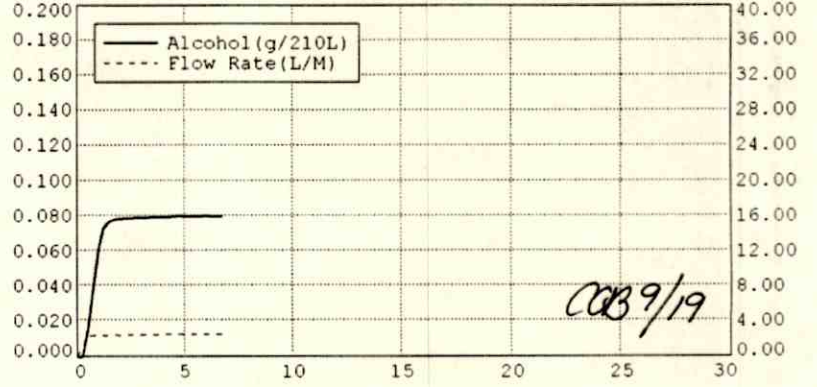
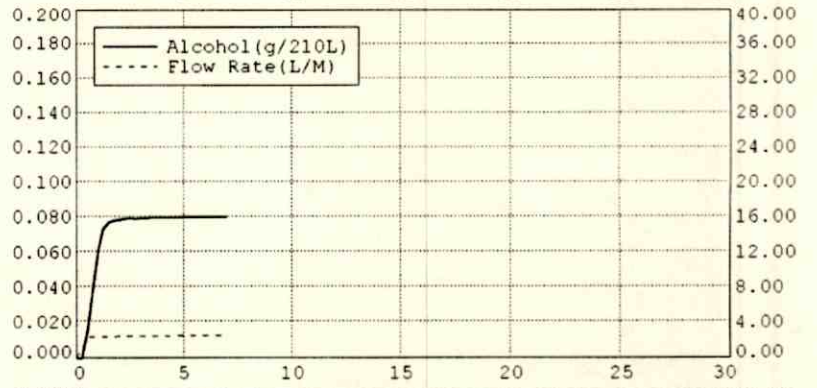
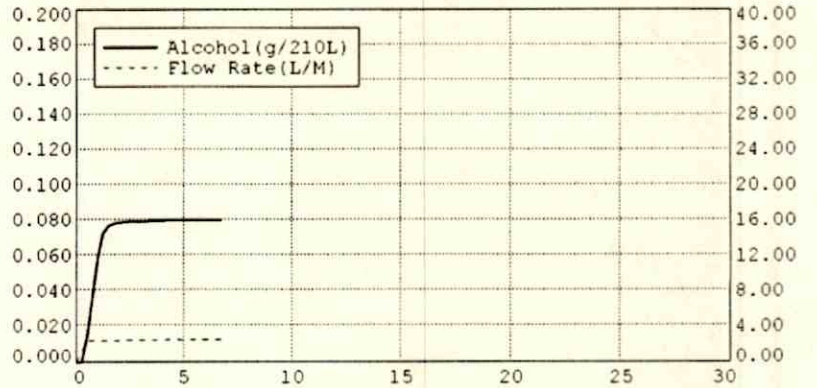
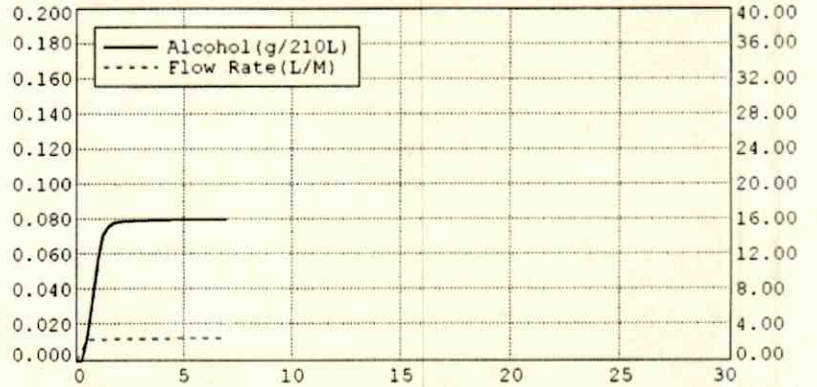
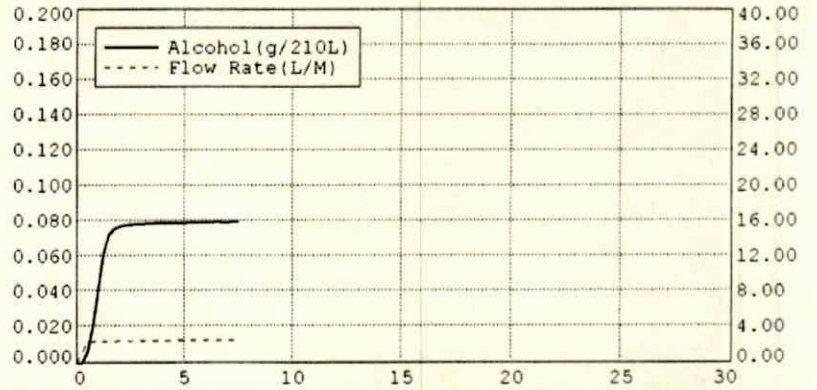
Date: 07/25/2012
 Time: 07:56:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 30.15: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	07:58
INTERNAL STANDARD	VERIFIED	07:58
EXTERNAL STANDARD	0.080	07:59
BLANK TEST	0.000	07:59
EXTERNAL STANDARD	0.080	08:00
BLANK TEST	0.000	08:01
EXTERNAL STANDARD	0.081	08:01
BLANK TEST	0.000	08:02
EXTERNAL STANDARD	0.080	08:02
BLANK TEST	0.000	08:03
EXTERNAL STANDARD	0.080	08:03
BLANK TEST	0.000	08:04

Average = 0.0808
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

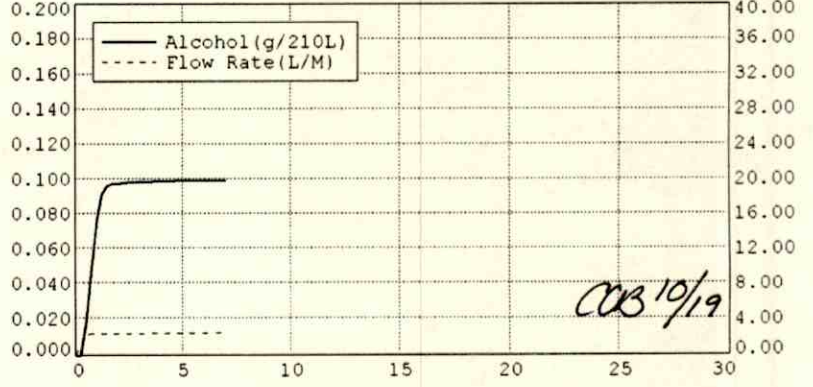
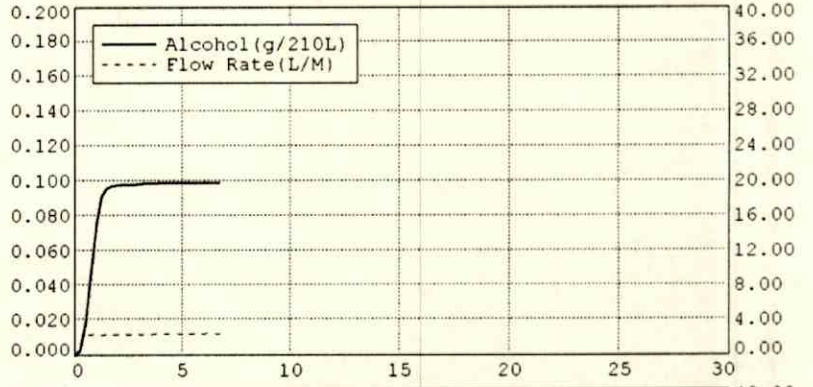
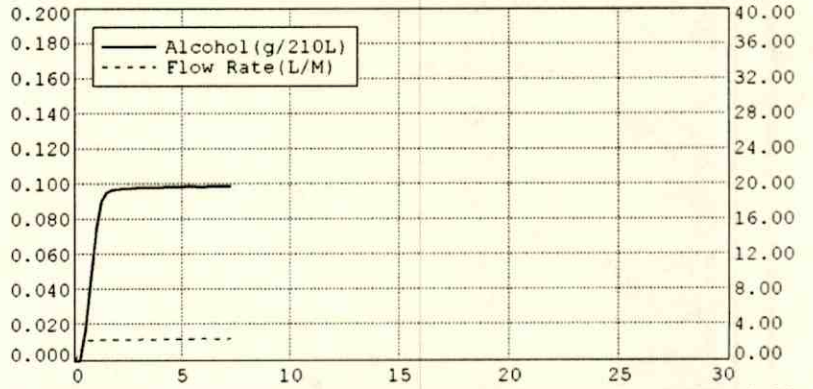
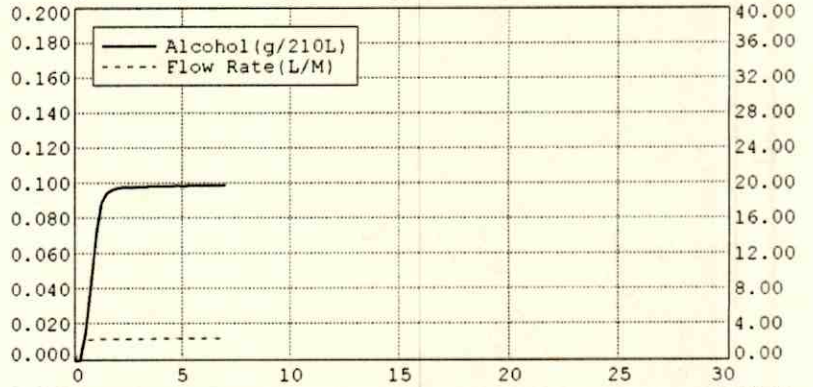
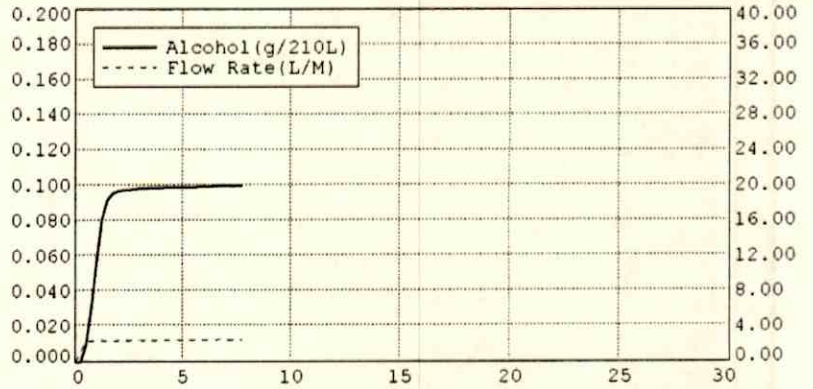
Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 07/25/2012
 Time: 08:09:09

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 30.14: 0.100
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:11
INTERNAL STANDARD	VERIFIED	08:11
EXTERNAL STANDARD	0.100	08:12
BLANK TEST	0.000	08:12
EXTERNAL STANDARD	0.099	08:13
BLANK TEST	0.000	08:14
EXTERNAL STANDARD	0.099	08:14
BLANK TEST	0.000	08:15
EXTERNAL STANDARD	0.099	08:15
BLANK TEST	0.000	08:16
EXTERNAL STANDARD	0.099	08:16
BLANK TEST	0.000	08:17

Average = 0.0998
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

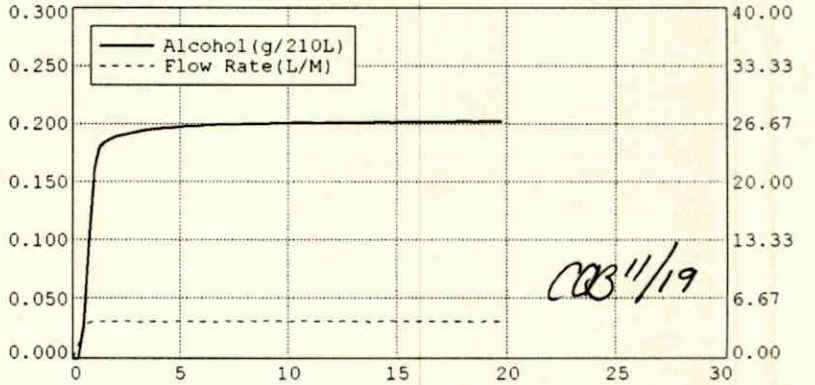
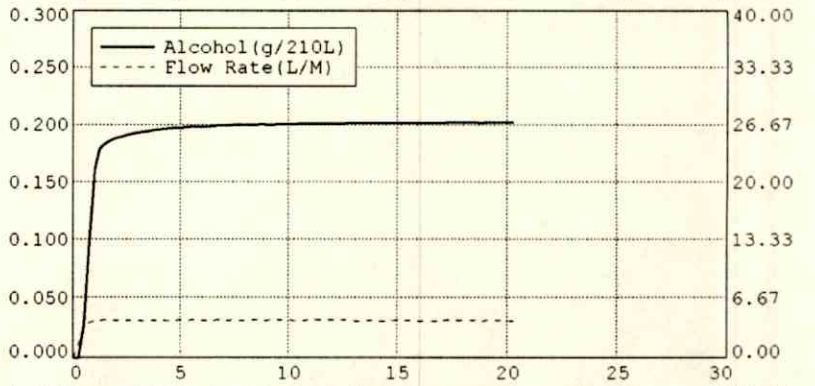
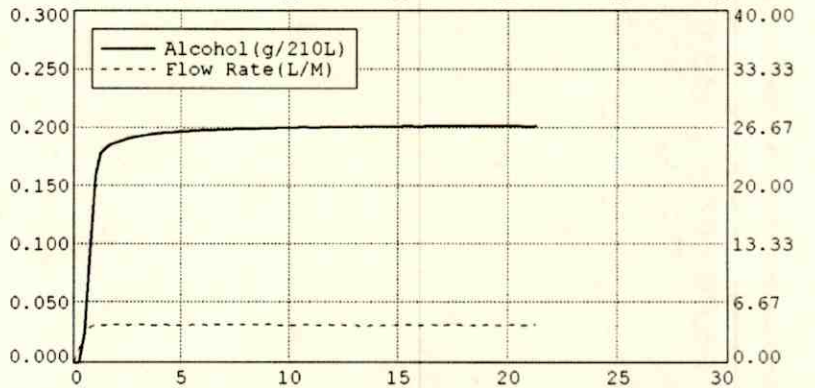
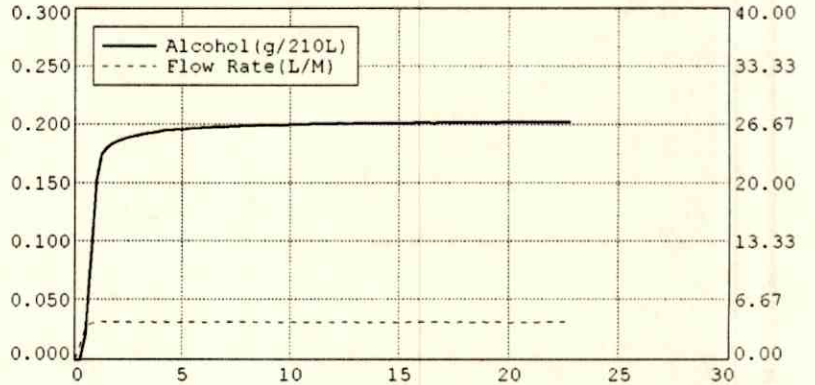
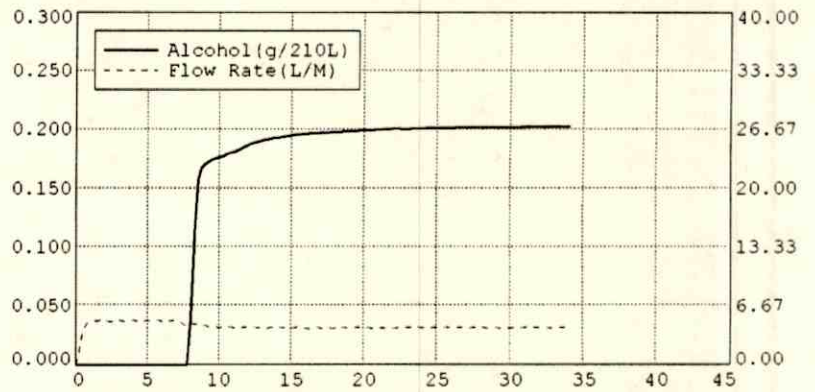
Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 07/25/2012
 Time: 08:21:12

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 11120
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	08:22
INTERNAL STANDARD	VERIFIED	08:23
EXTERNAL STANDARD	0.203	08:23
BLANK TEST	0.000	08:25
EXTERNAL STANDARD	0.203	08:25
BLANK TEST	0.000	08:26
EXTERNAL STANDARD	0.202	08:26
BLANK TEST	0.000	08:27
EXTERNAL STANDARD	0.203	08:28
BLANK TEST	0.000	08:29
EXTERNAL STANDARD	0.203	08:29
BLANK TEST	0.000	08:30

Average = 0.2033
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

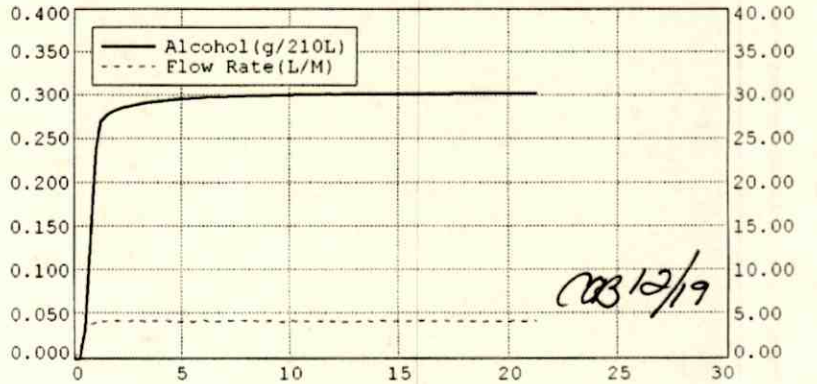
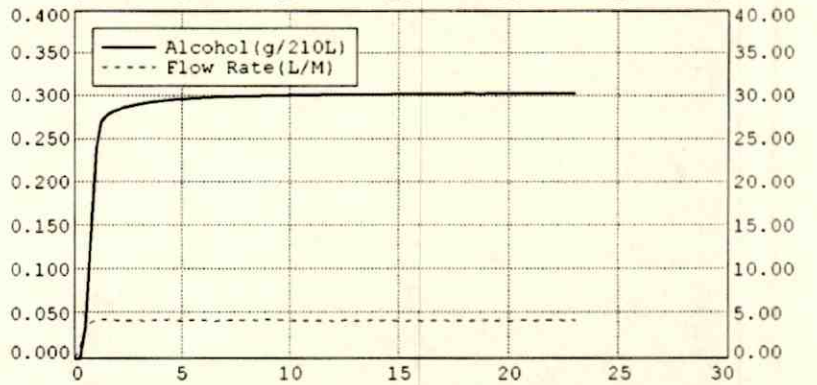
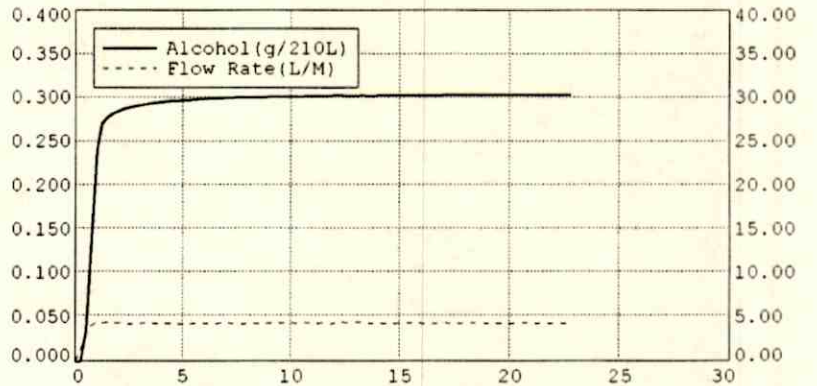
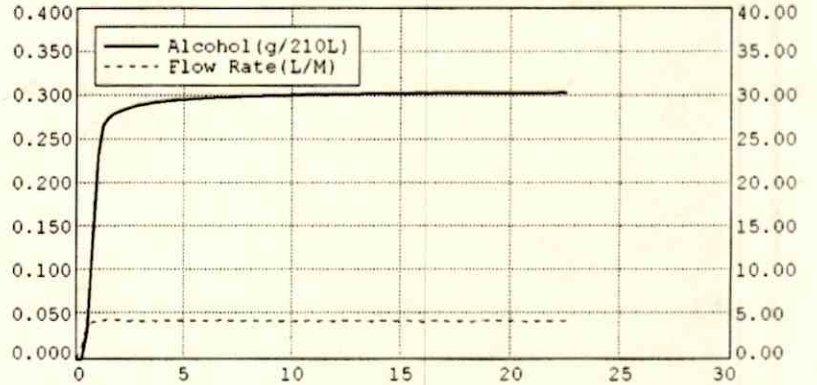
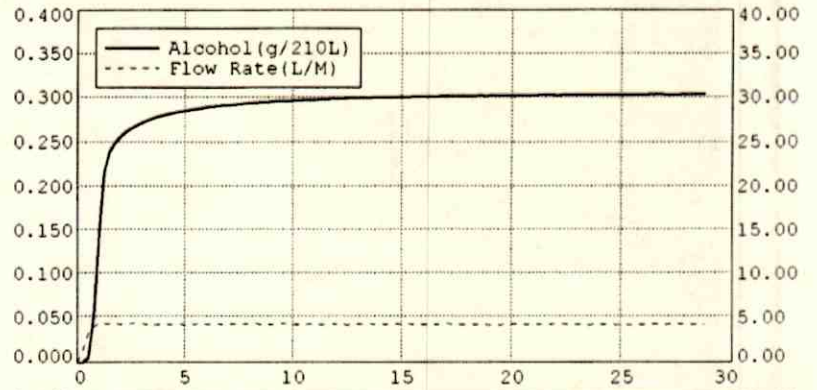
Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 07/25/2012
 Time: 08:31:44

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 11110
 EXPIRATION: 07/13/2013

BLANK TEST	0.000	08:32
INTERNAL STANDARD	VERIFIED	08:32
EXTERNAL STANDARD	0.304	08:33
BLANK TEST	0.000	08:34
EXTERNAL STANDARD	0.304	08:35
BLANK TEST	0.000	08:36
EXTERNAL STANDARD	0.304	08:36
BLANK TEST	0.000	08:37
EXTERNAL STANDARD	0.303	08:37
BLANK TEST	0.000	08:38
EXTERNAL STANDARD	0.303	08:39
BLANK TEST	0.000	08:40

Average = 0.3038
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 07/25/2012
Time: 08:45:37

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

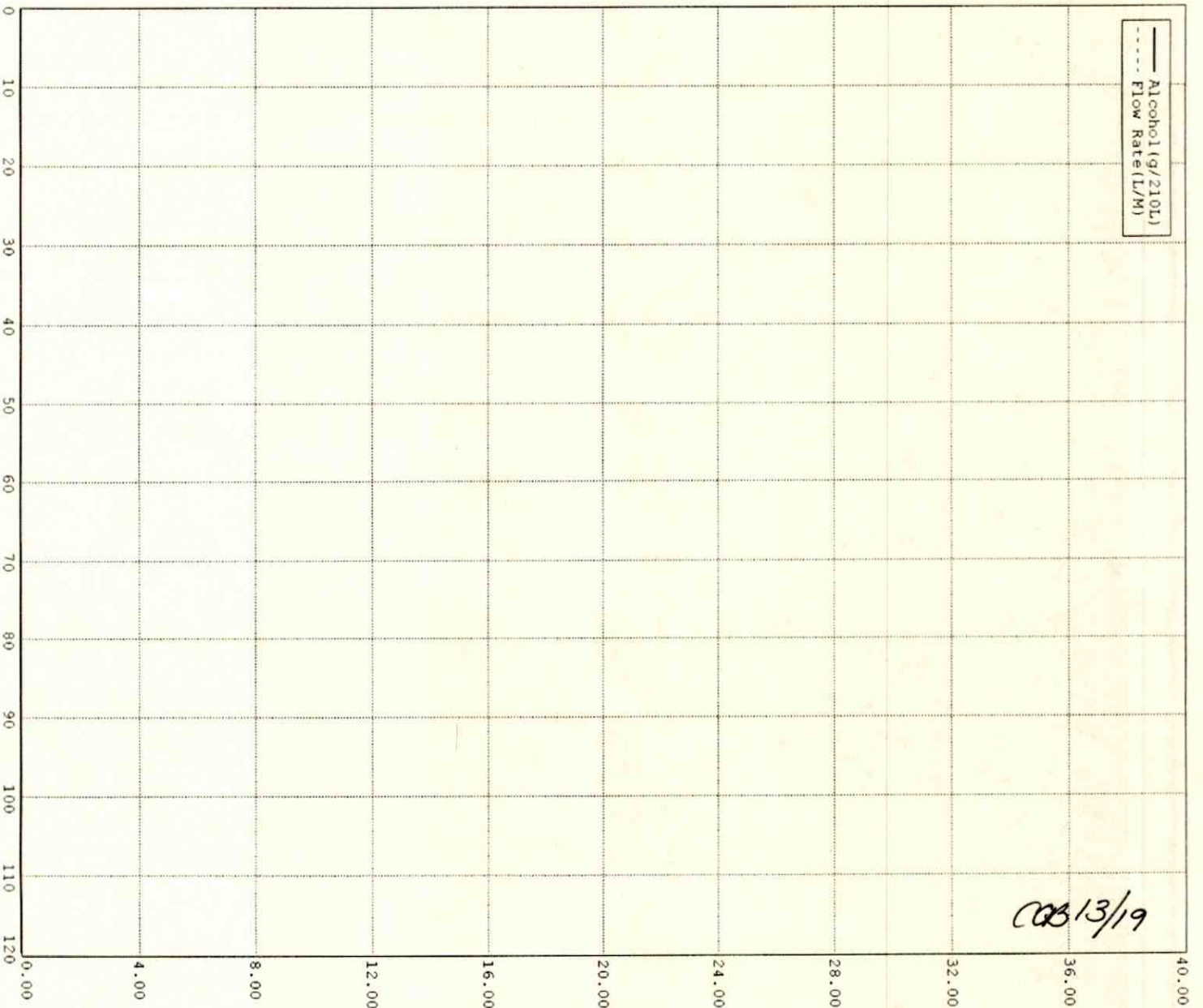
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.16: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:58
BLANK TEST	0.000	08:58
INTERNAL STANDARD	VERIFIED	08:59
EXTERNAL STANDARD	0.080	08:59
BLANK TEST	0.000	09:00
SUBJECT SAMPLE	INCOMPLETE	09:02

CRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 07/25/2012
Time: 09:05:55

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

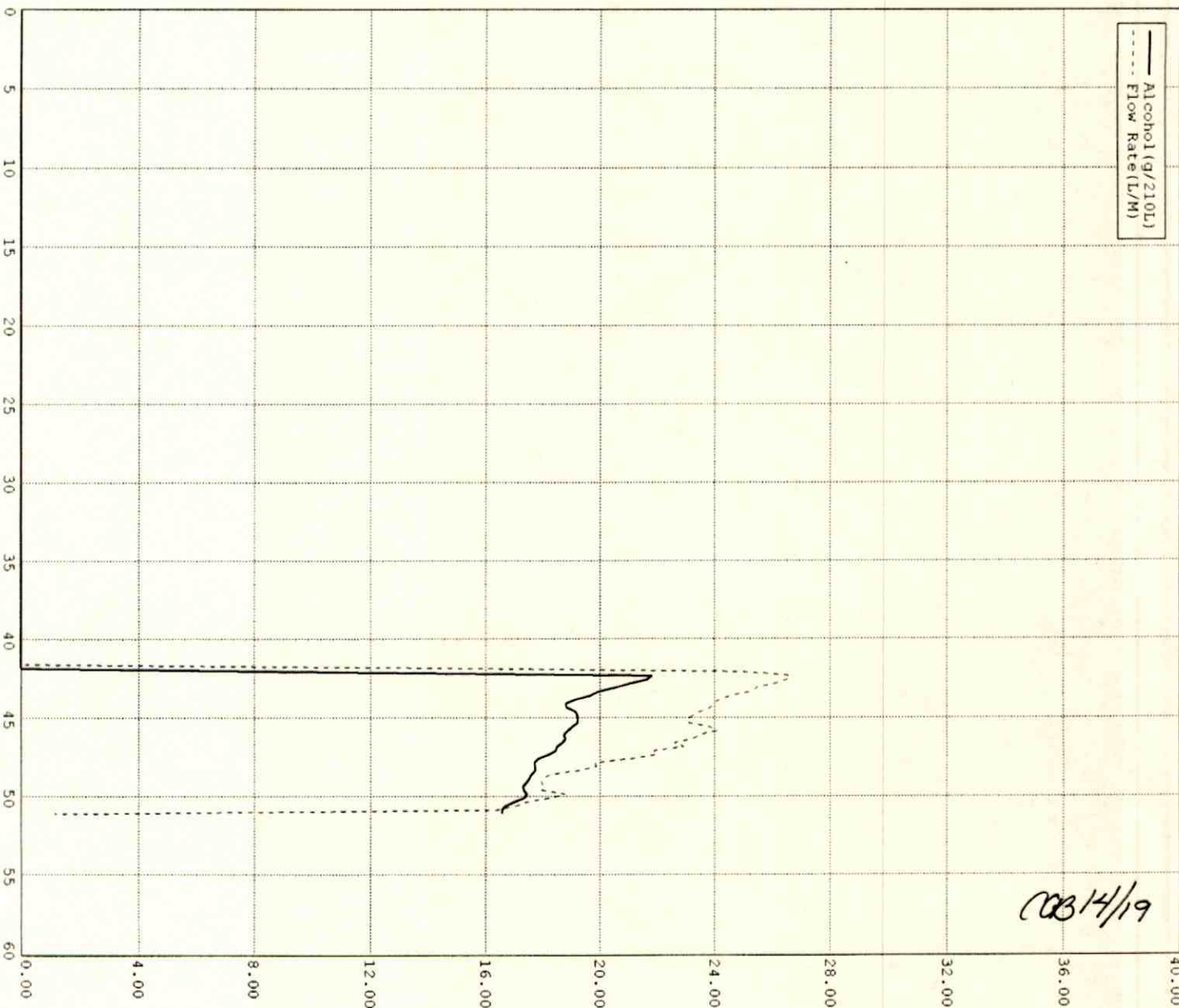
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.15: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:07
BLANK TEST	0.000	09:07
INTERNAL STANDARD	VERIFIED	09:08
EXTERNAL STANDARD	0.080	09:08
BLANK TEST	0.000	09:09
SUBJECT SAMPLE	INVALID	09:10

OB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 07/25/2012
Time: 09:39:24

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

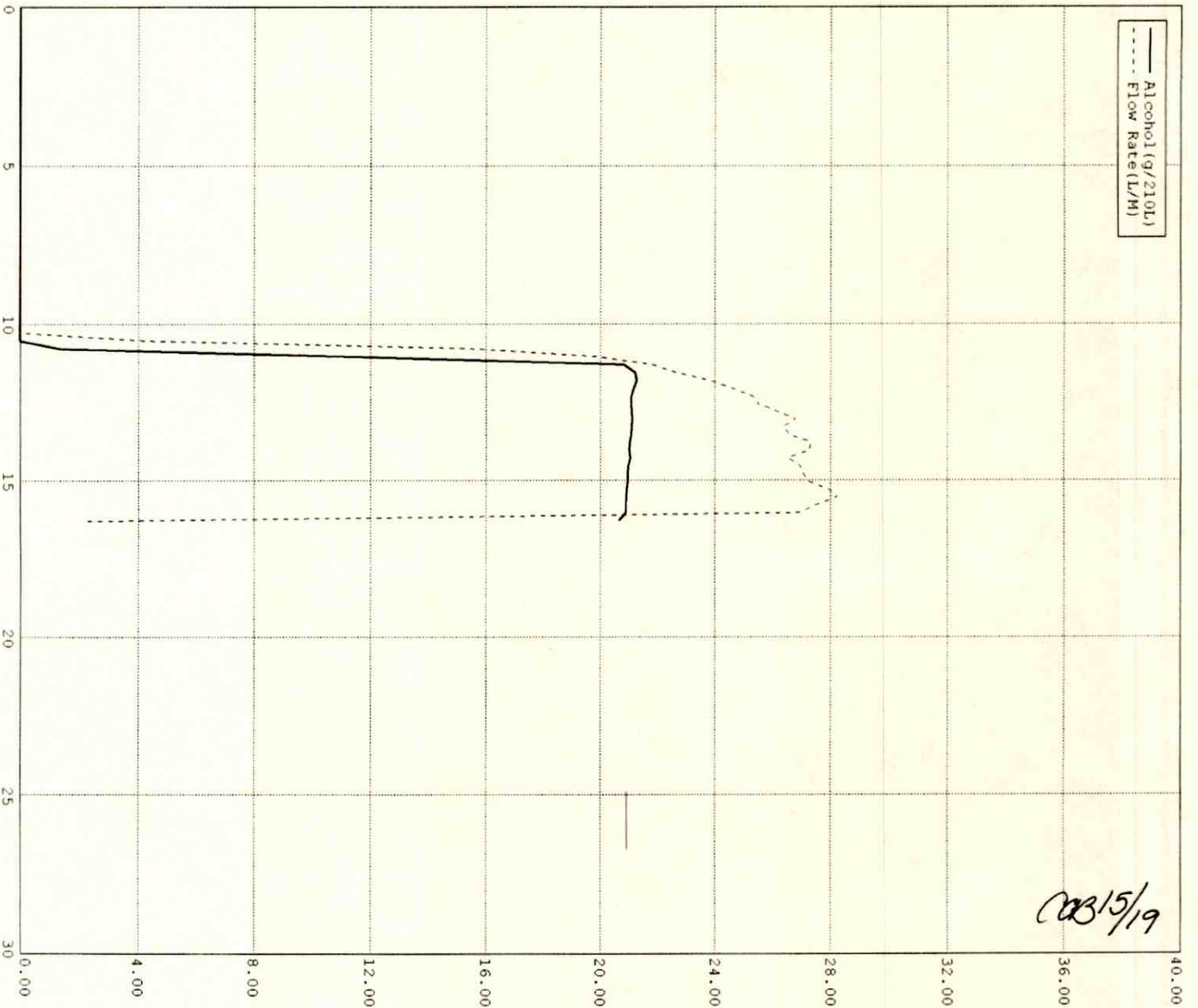
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.15: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:40
BLANK TEST	0.000	09:40
INTERNAL STANDARD	VERIFIED	09:41
Xg = 0.089 (0.10%)		
EXTERNAL STANDARD	0.080	09:41
X[1] = 0.0805 (0.0017)	(0.0025)	
BLANK TEST	0.000	09:42
SUBJECT SAMPLE	INTERFERENCE	09:42
X[1] = 0.1035 (-0.0168)	(0.0007)	

CS



CS 15/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 07/25/2012
Time: 09:53:20

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

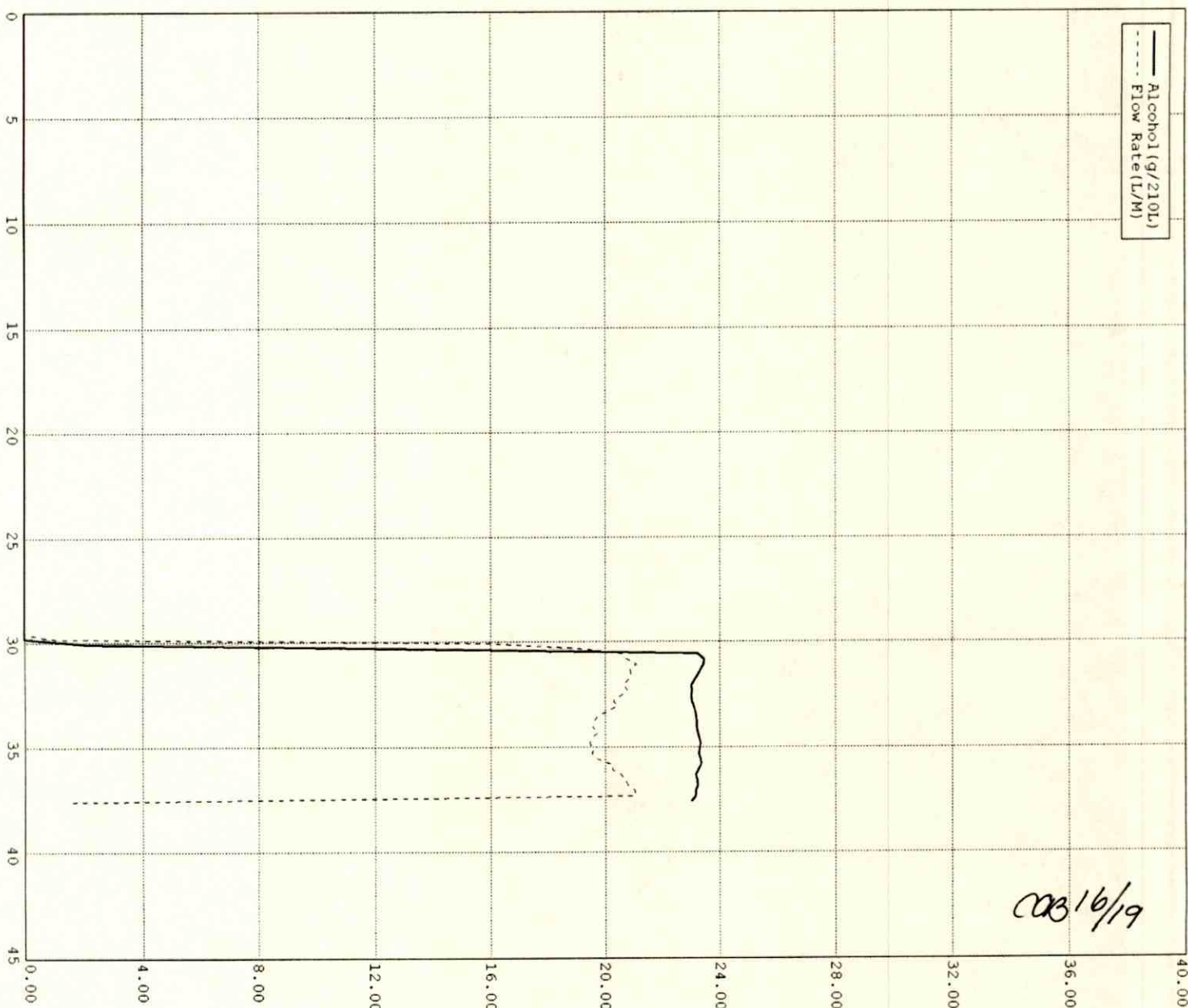
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.14: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:54
BLANK TEST	0.000	09:54
INTERNAL STANDARD	VERIFIED	09:54
Xq = 0.089 (0.29%)		
EXTERNAL STANDARD	0.081	09:54
X[1] = 0.0813 (0.0019)	(0.0016)	
BLANK TEST	0.000	09:55
SUBJECT SAMPLE	INTERFERENCE	09:56
X[1] = 0.1152 (-0.0220)	(0.0019)	

CR



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 07/25/2012
 Time: 09:45:20

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEG

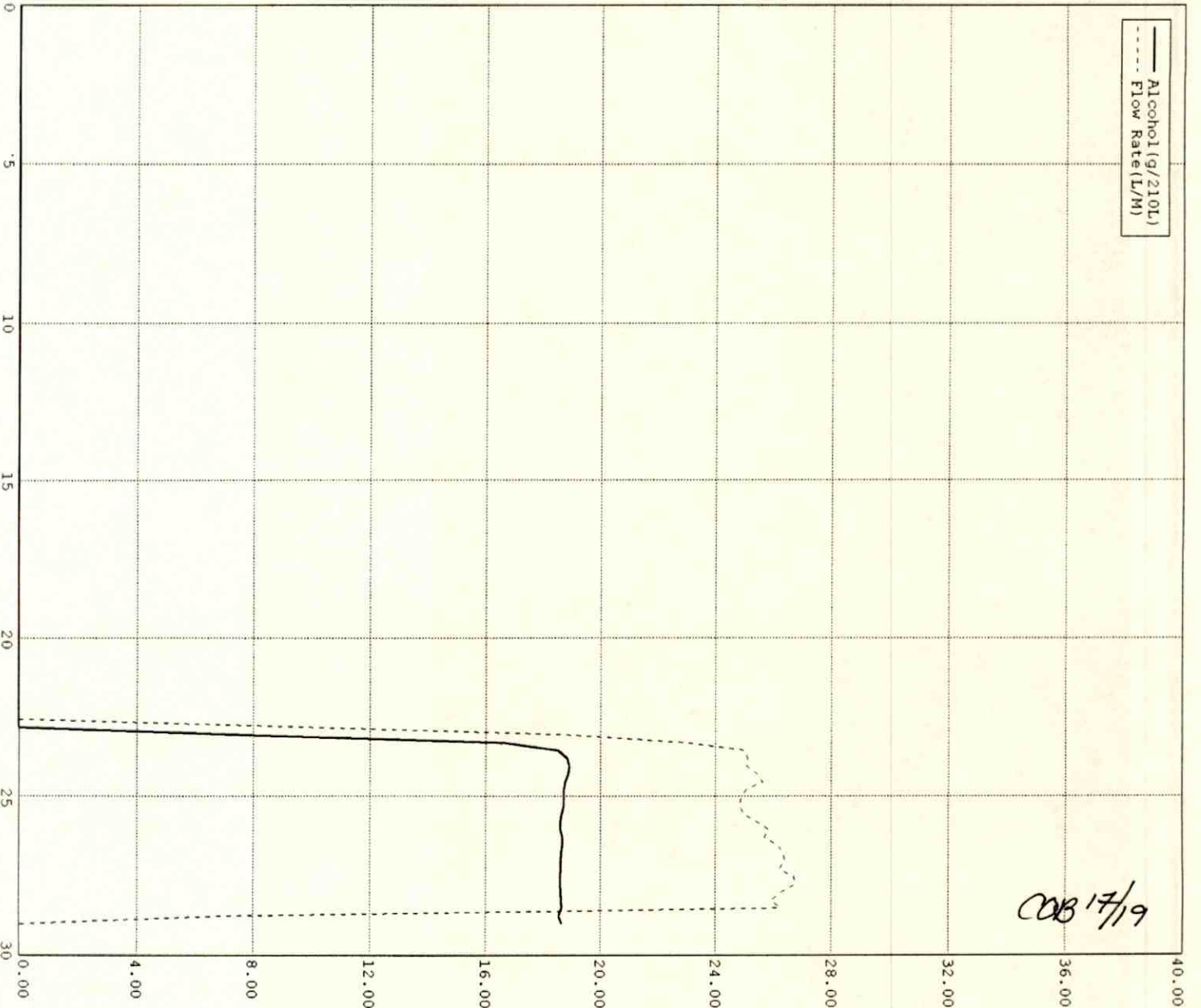
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.15: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:47
BLANK TEST	0.000	09:47
INTERNAL STANDARD	VERIFIED	09:47
Xg = 0.089 (0.29%)		
EXTERNAL STANDARD	0.080	09:48
X[1] = 0.0807 (0.0017)	(0.0023)	
BLANK TEST	0.000	09:49
SUBJECT SAMPLE (Vol=2.5IL)	0.092	09:49
X[1] = 0.0929 (-0.0003)	(0.0006)	
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.080	09:50
X[1] = 0.0801 (0.0011)	(0.0015)	
BLANK TEST	0.000	09:51

MB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 07/25/2012
Time: 10:05:32

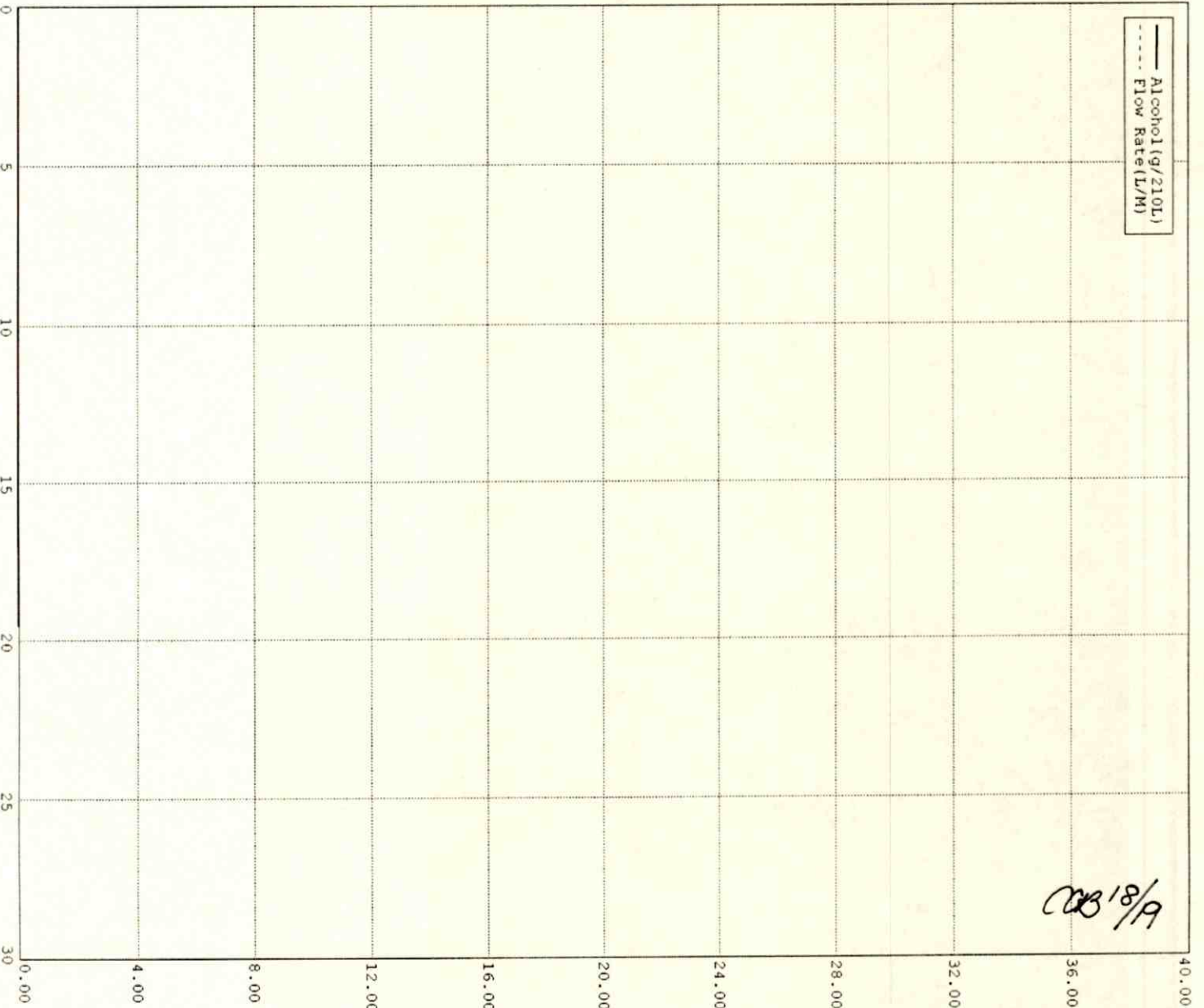
SUBJECT NAME:
TEST TEST
LICENSE #: RFI

OPERATOR NAME:
COLLEEN S OBRVANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.15: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:06
BLANK TEST	0.000	10:06
INTERNAL STANDARD	VERIFIED	10:06
EXTERNAL STANDARD	0.079	10:07
BLANK TEST	0.000	10:07
RFI DETECTED		



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100370

Date: 07/25/2012
Time: 10:22:27

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.14: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:25
BLANK TEST	0.000	10:25
INTERNAL STANDARD	0.080	10:25
EXTERNAL STANDARD	0.000	10:26
BLANK TEST	0.000	10:26
SUBJECT SAMPLE	0.000	10:27
EXTERNAL STANDARD	0.081	10:27
BLANK TEST	0.000	10:28

CS



CS 19/19