

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012Version: DMCEF2012 R1
Status: ActiveInstrument S/N 100677 Analyst CRF Start Date 5/2/12Diagnostic 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 1600 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 3/1/13ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/131. Simulator S/N SD1176 Date Calibrated 8/17/11vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/131. Simulator S/N DR4176 Date Calibrated 2/21/12

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 1/11/12ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/121. Simulator S/N DR6267 Date Calibrated 1/10/12iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/131. Simulator S/N SD1202 Date Calibrated 8/17/11d. 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 W/AEnd Date 5/7/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100677

Date: 05/02/2012
Time: 12:30:21

VERSIONS

DMT: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 44.9°C	PASSED

PUMP INFO

Flow Rate = 4.425 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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CRF
2/19

Technician Screen

DATAMASTER dmt: 100677

Date: 05/02/2012

Time: 12:39 PM

Temperatures (°C)

Sample Cell: 49.0°C

Breath Tube: 44.6°C

Current Barometer 29.7 in

Volume (Ltr) 1.49

Settings

Lamp: 1.78 V

Bias: 80 V

Cooler: 1.81 V

Chopper: 540 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.043 V

CRF
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CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100677

Date: 10/26/2011
Time: 08:04:31

Ca	=	0.1000		
CAL	=	1.016524	0.800	<= CAL < 1.200
b1	=	0.0000	0.0000	<= b1 < 0.0040
b2	=	0.0030	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0842	0.0500	<= Xq < 0.2000
a21	=	1.257001	1.050	<= a21 < 1.300
a31	=	0.532617	0.300	<= a31 < 0.800

CF
4/19

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100677

Date: 05/02/2012
Time: 13:09:03

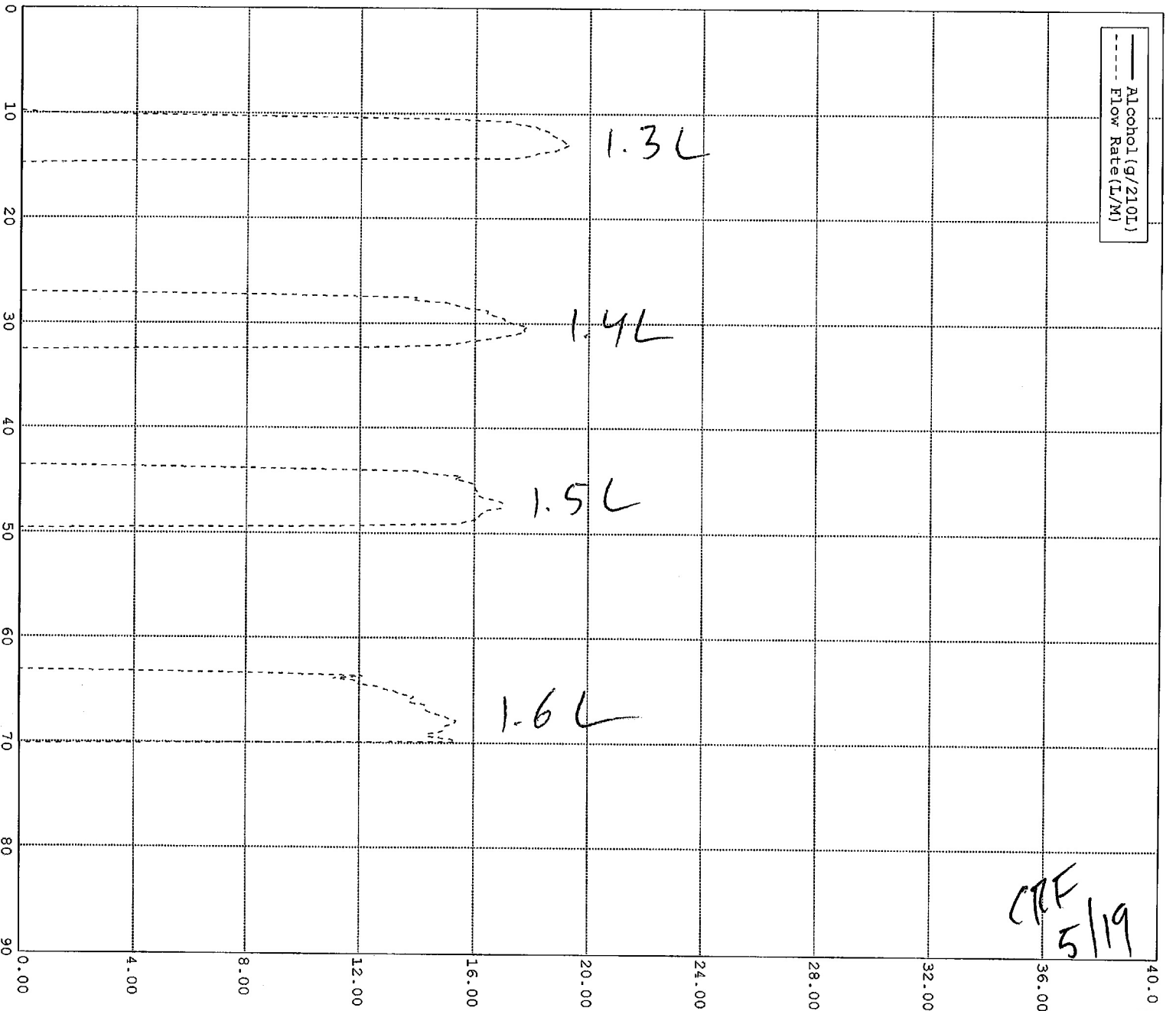
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:13
BLANK TEST	0.000	13:13
INTERNAL STANDARD	VERIFIED	13:13
EXTERNAL STANDARD	0.078	13:13
BLANK TEST	0.000	13:14
SUBJECT SAMPLE	0.000	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.078	13:17
BLANK TEST	0.000	13:17



LINEARITY CHECK

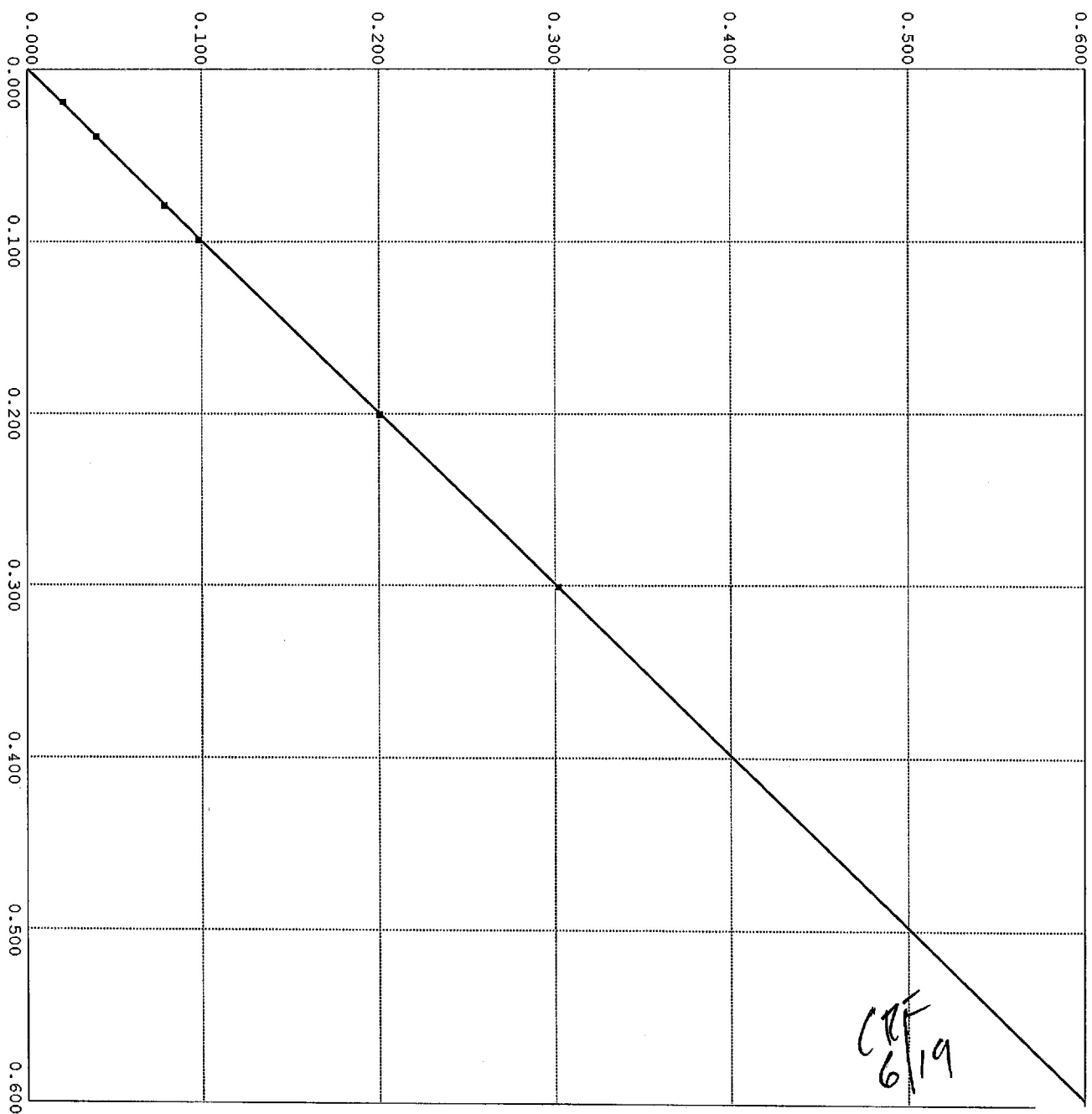
Alaska Department of Public Safety
DATAMASTER dmt: 100677

Date: 05/02/2012
Time: 13:27:18

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0208	0.0002
0.039	0.0402	0.0003
0.079	0.0794	0.0002
0.099	0.0994	0.0002
0.200	0.2013	0.0009
0.300	0.3028	0.0003

SLOPE = 1.005029
 R^2 = 0.999956



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100677

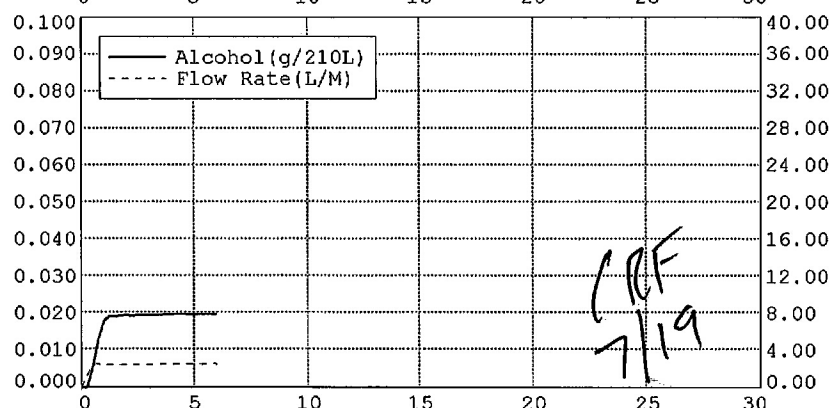
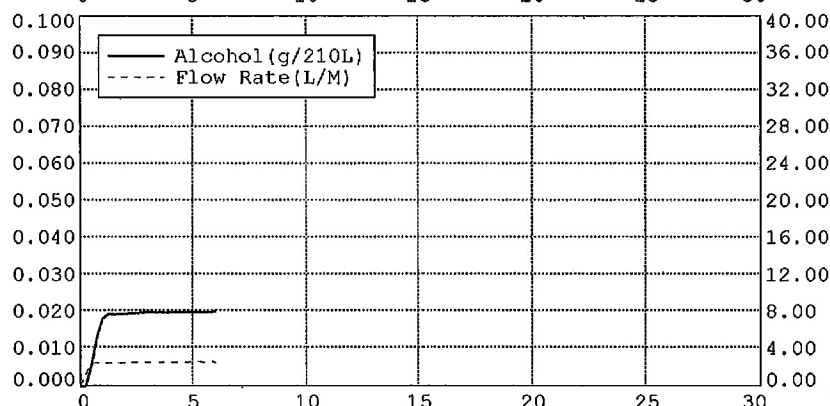
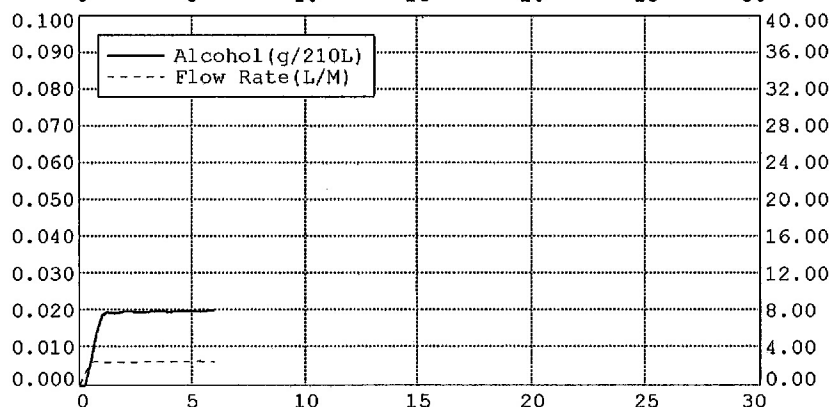
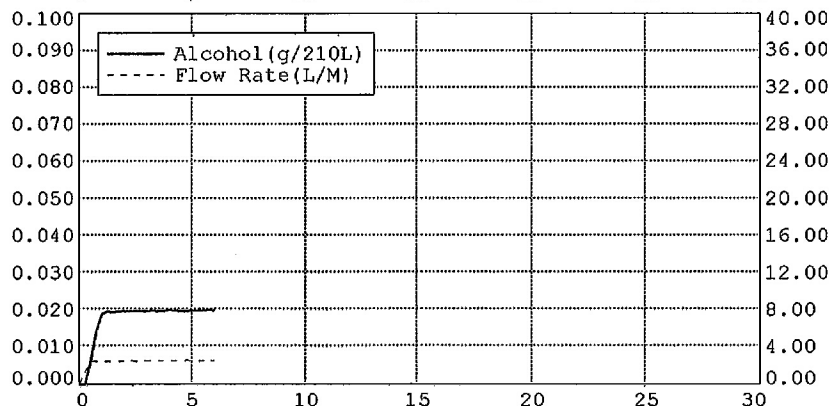
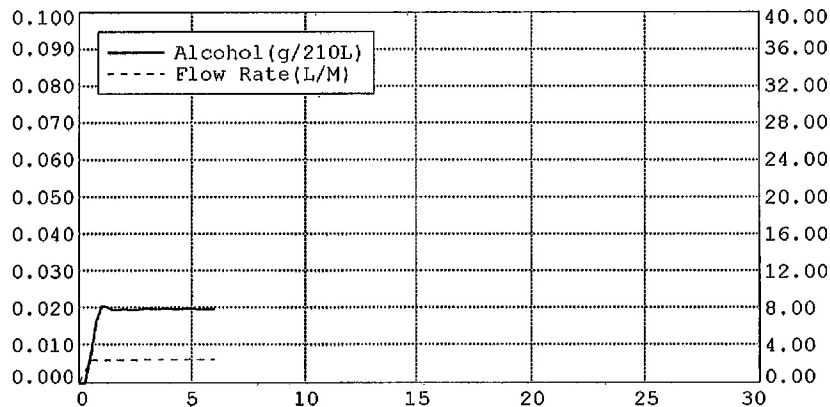
Date: 05/02/2012
Time: 13:27:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.64: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:28
INTERNAL STANDARD	VERIFIED	13:28
EXTERNAL STANDARD	0.020	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.020	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.021	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.020	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.020	13:33
BLANK TEST	0.000	13:34

Average = 0.0208
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100677

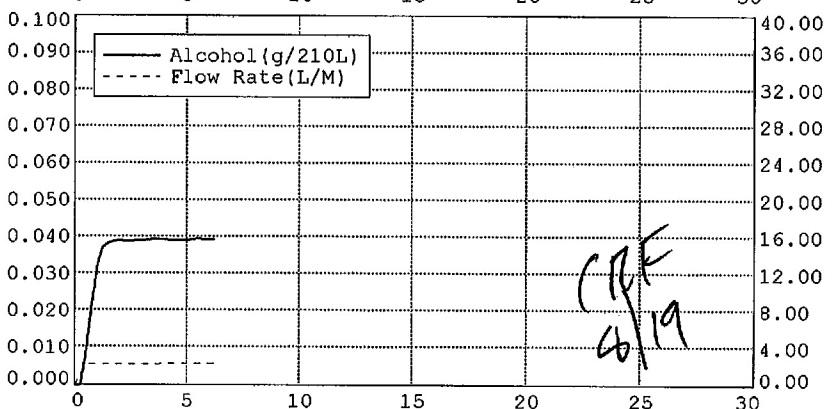
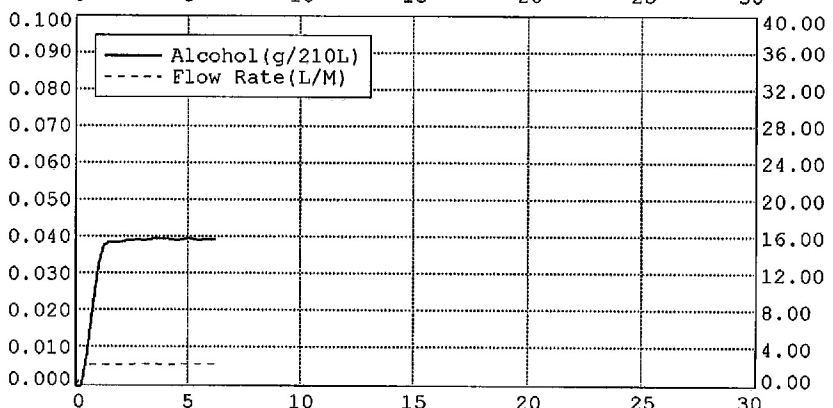
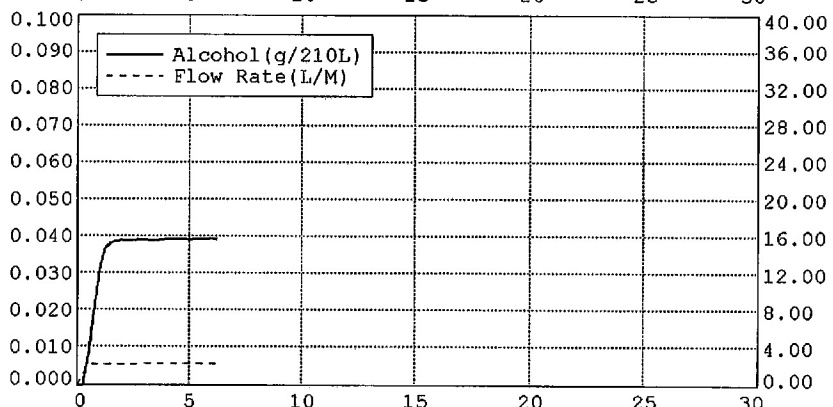
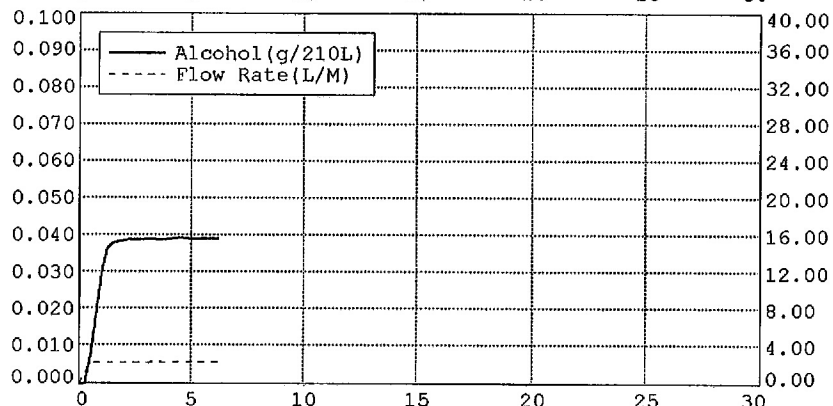
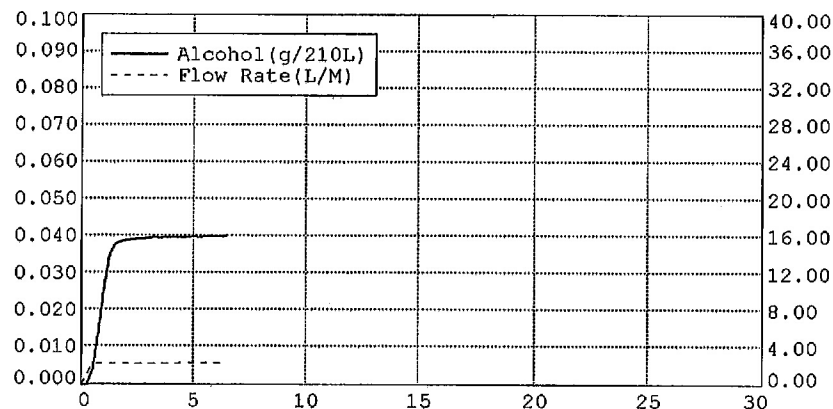
Date: 05/02/2012
Time: 13:38:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.64: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:39
EXTERNAL STANDARD	0.040	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.039	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.040	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.040	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.040	13:44
BLANK TEST	0.000	13:45

Average = 0.0402
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

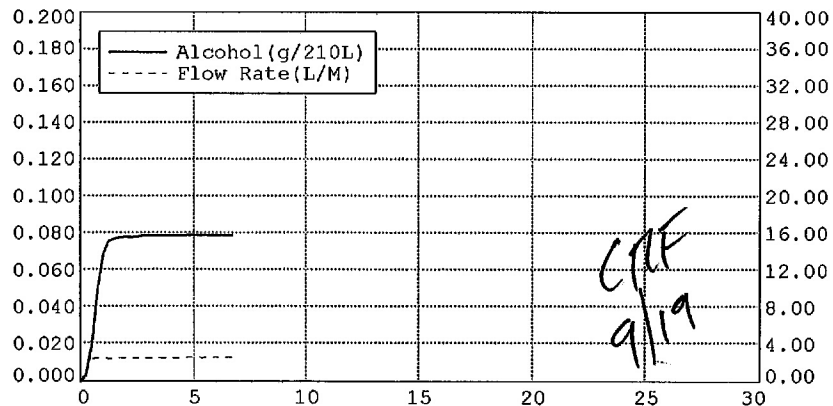
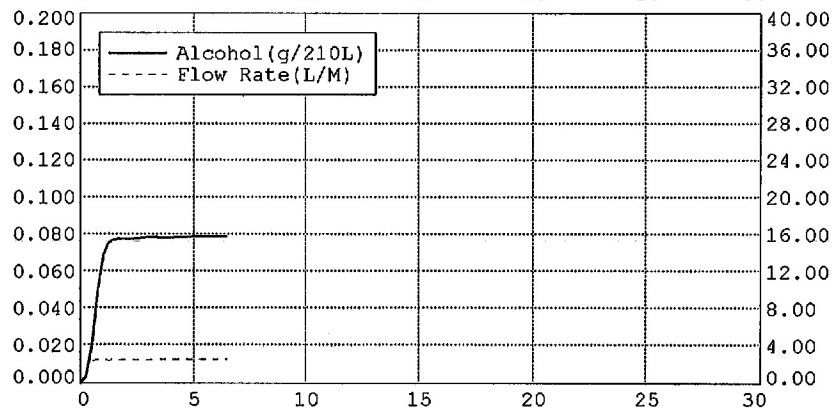
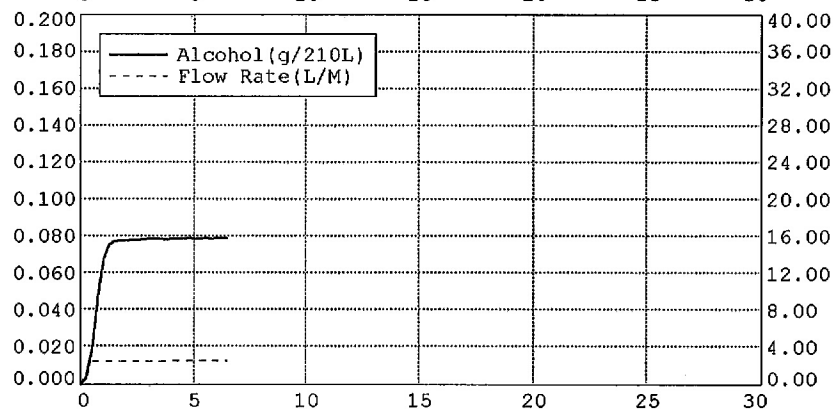
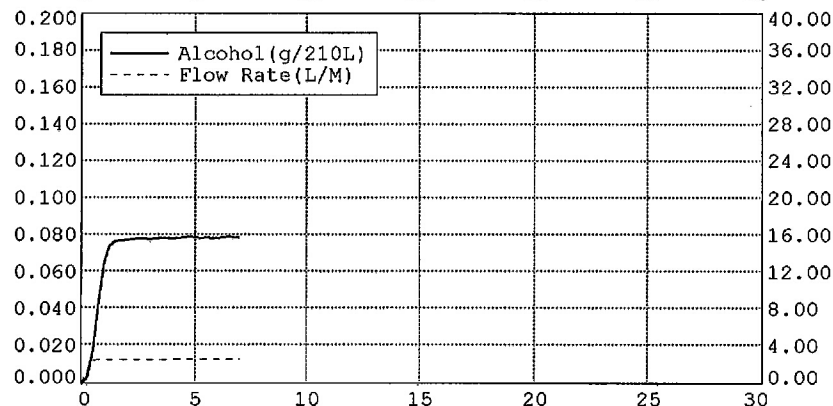
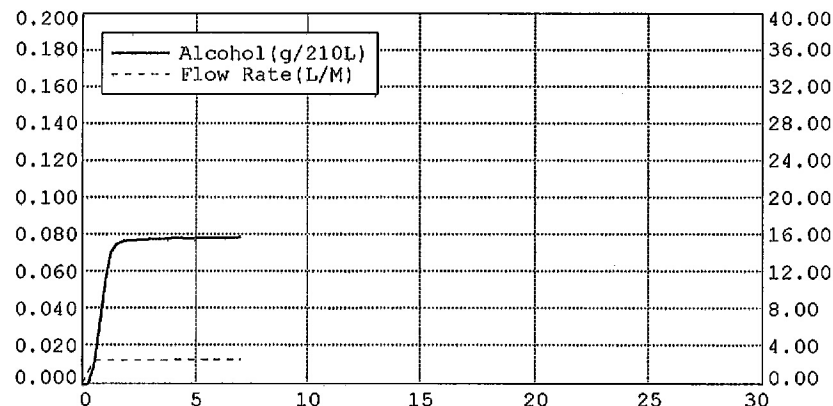
Alaska Department of Public Safety
DATAMASTER dmt: 100677

Date: 05/02/2012
Time: 13:46:09

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.079	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.079	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.079	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.079	13:51
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.079	13:52
BLANK TEST	0.000	13:53

Average = 0.0794
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100677

Date: 05/02/2012

Time: 13:53:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100

TARGET AT 29.64: 0.099

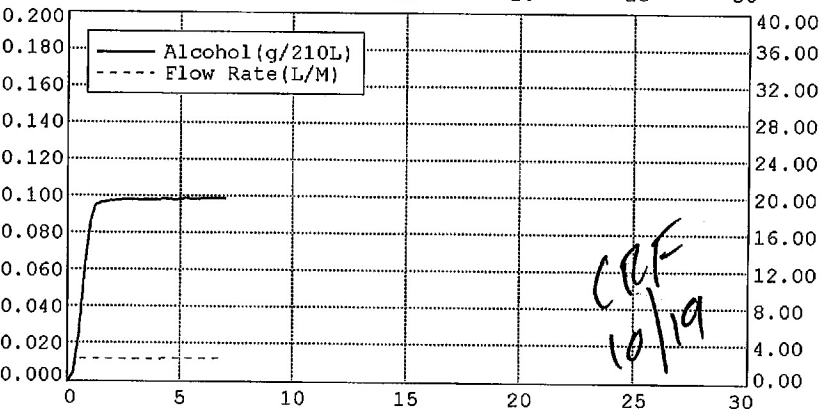
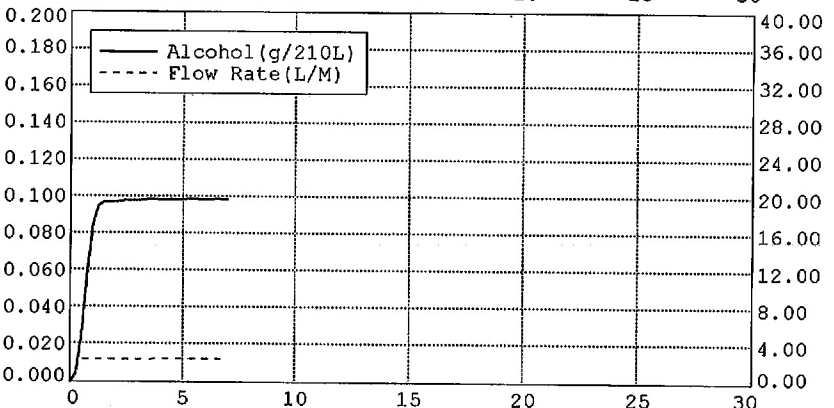
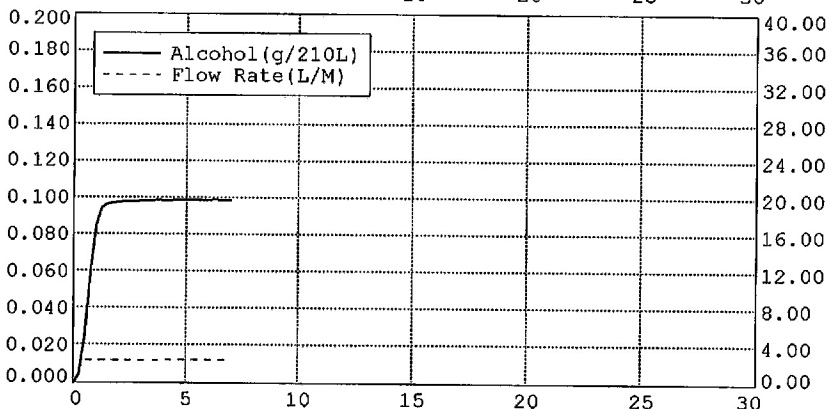
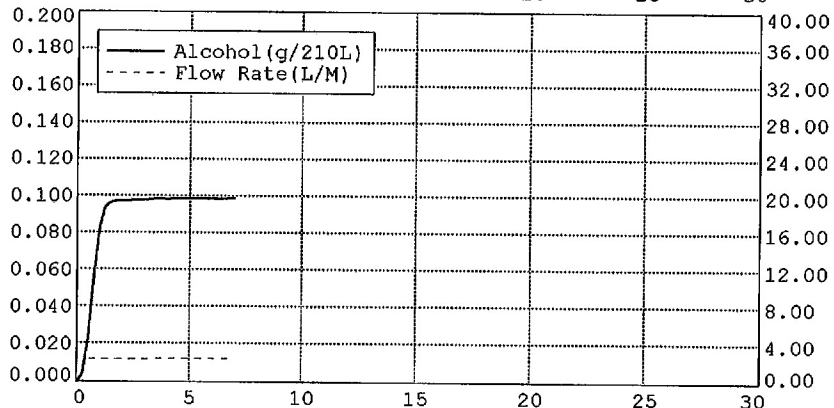
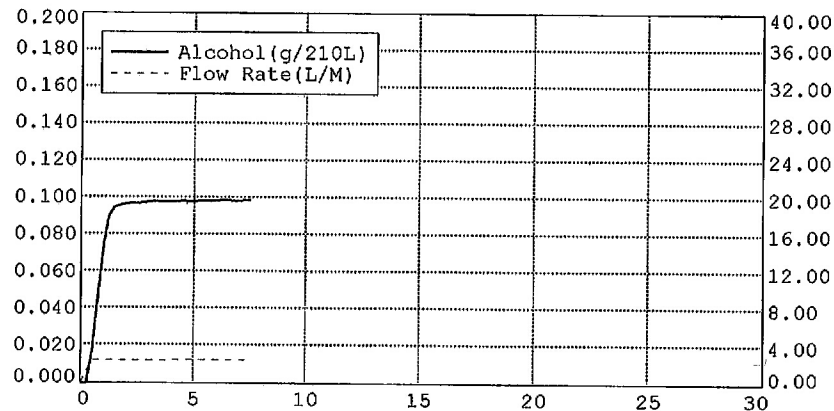
LOT #: 07611100A3

EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:55
EXTERNAL STANDARD	0.099	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.099	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.099	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.099	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.099	13:59
BLANK TEST	0.000	14:00

Average = 0.0994

Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100677

Date: 05/02/2012
Time: 14:01:29

EXTERNAL STANDARD INFORMATION

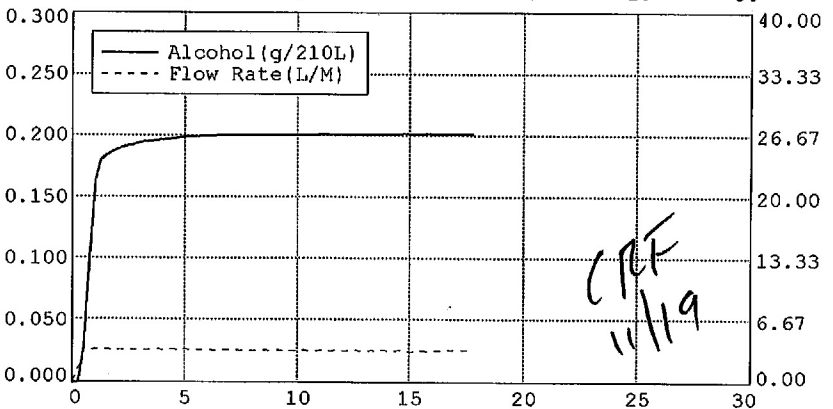
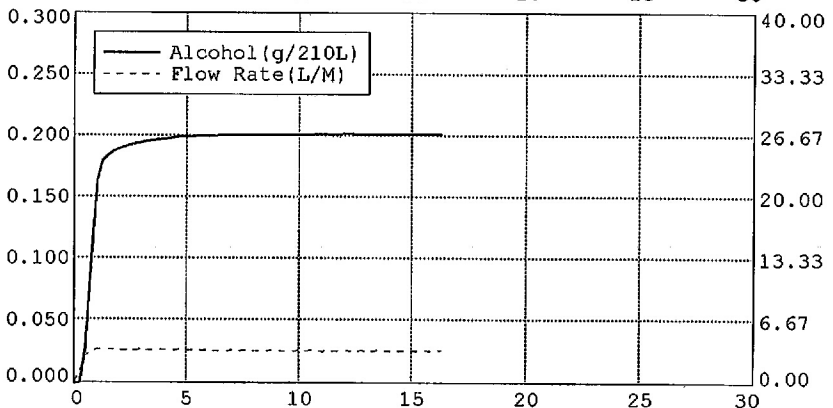
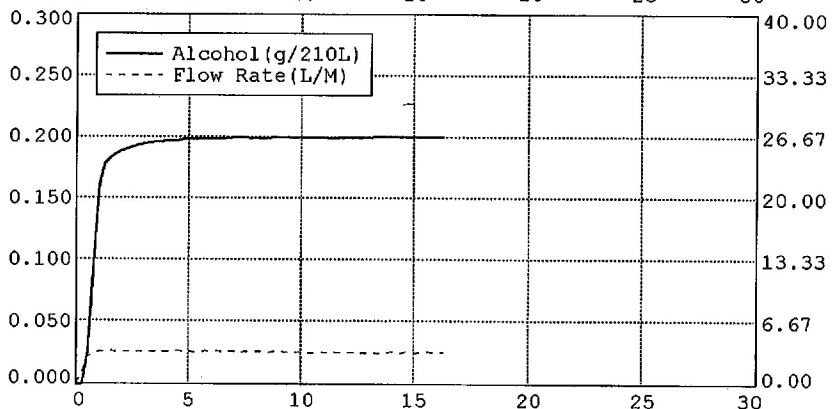
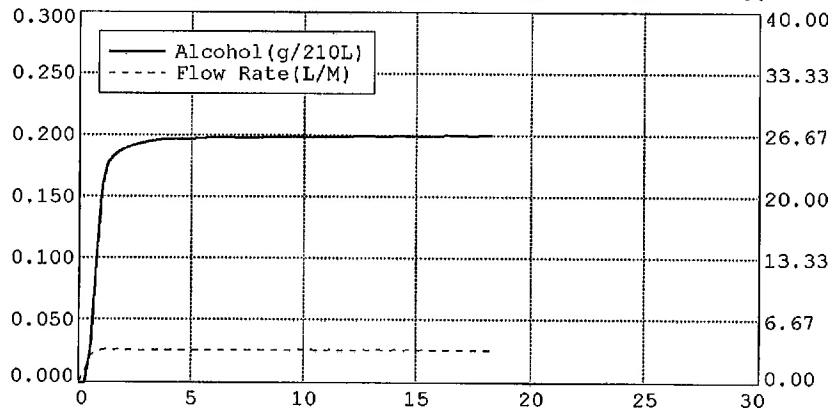
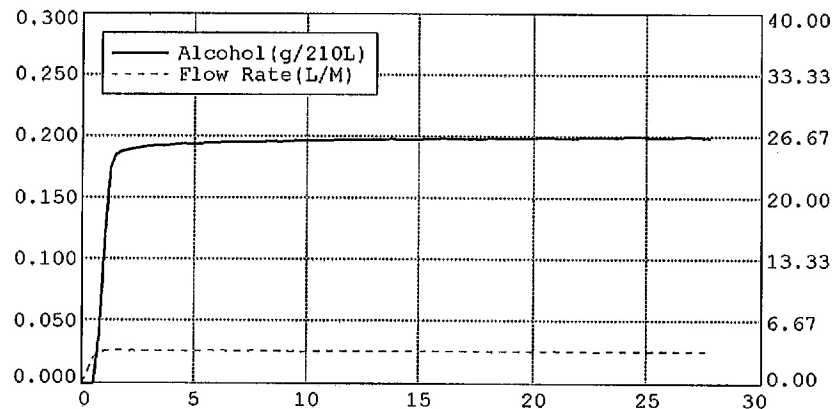
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.200	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.200	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.201	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.202	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.202	14:09
BLANK TEST	0.000	14:10

Average = 0.2013
Std Dev = 0.0009



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100677

Date: 05/02/2012
Time: 14:11:28

EXTERNAL STANDARD INFORMATION

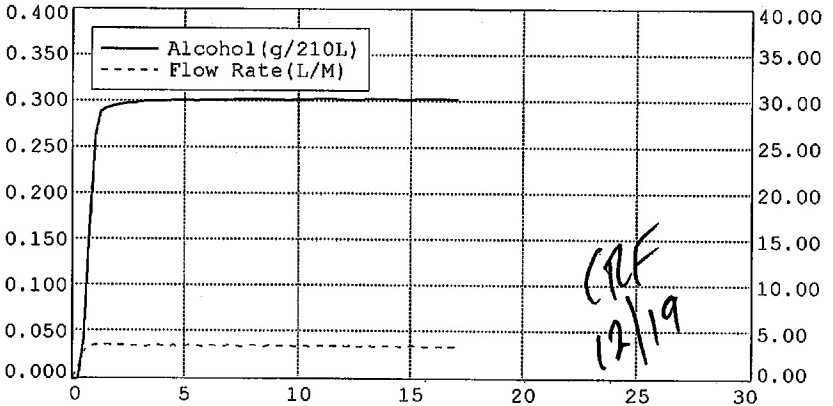
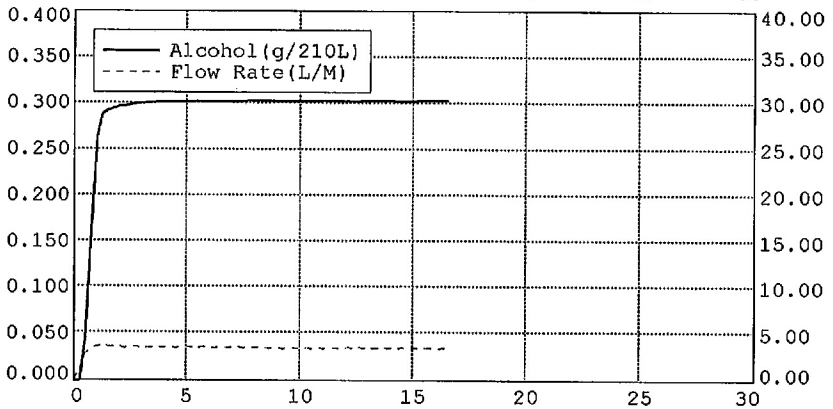
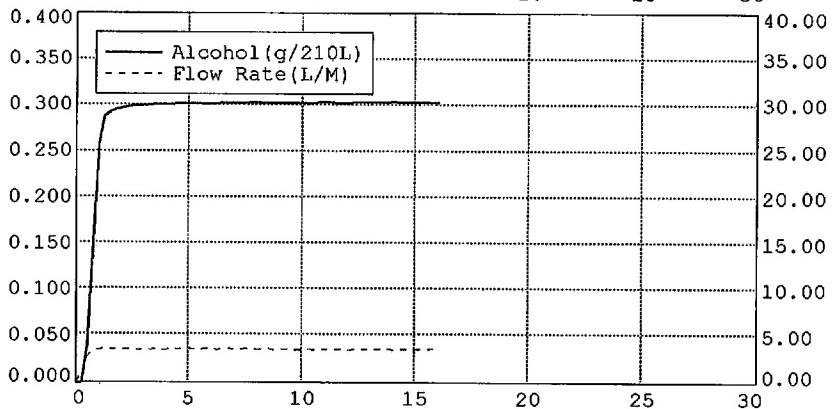
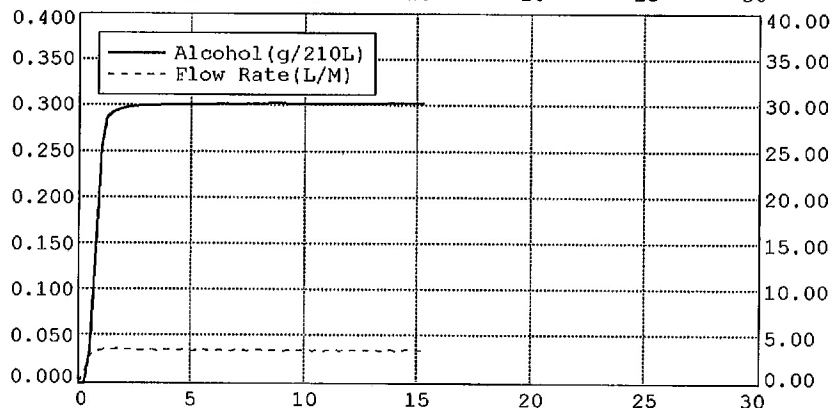
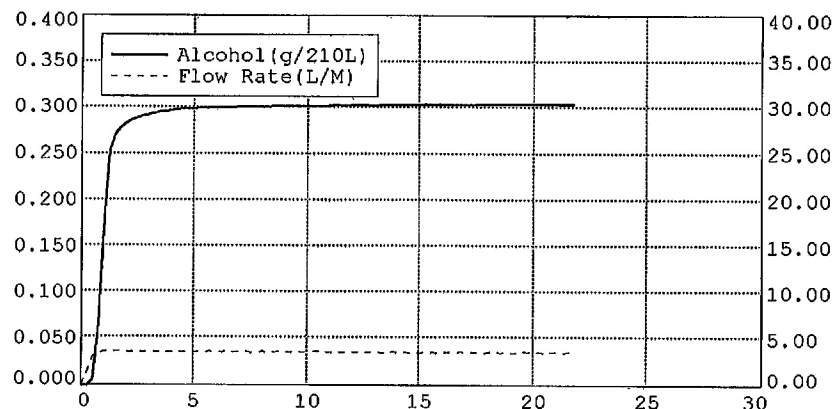
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.303	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.302	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.302	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.302	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.302	14:18
BLANK TEST	0.000	14:19

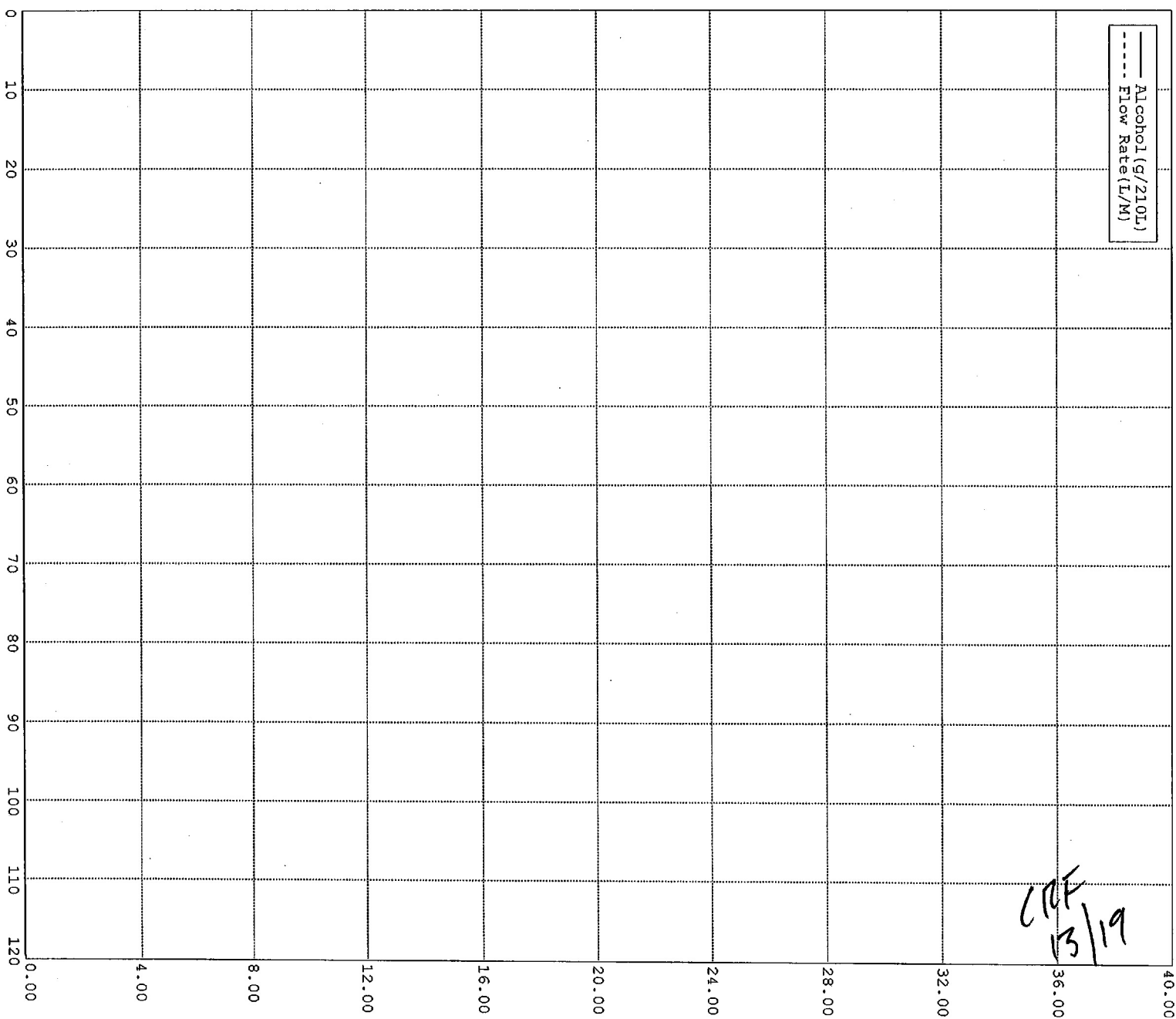
Average = 0.3028
Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100677Date: 05/04/2012
Time: 08:28:02SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	08:29
BLANK TEST	0.000	08:29
INTERNAL STANDARD	VERIFIED	08:29
EXTERNAL STANDARD	0.077	08:29
BLANK TEST	0.000	08:30
SUBJECT SAMPLE	INCOMPLETE	08:32



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100677

Date: 05/04/2012
 Time: 10:35:53

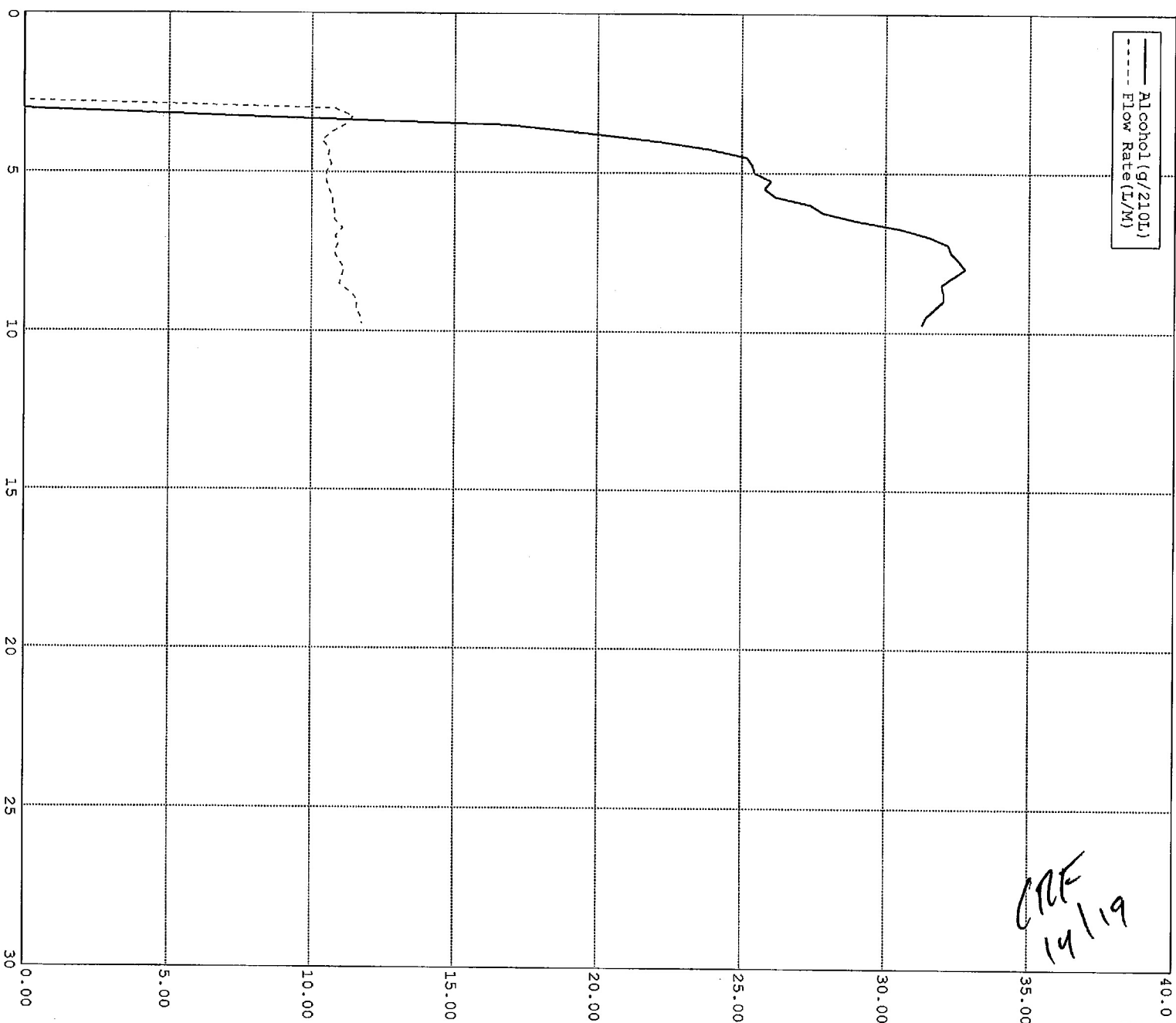
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INVALID MOUTH ETOH
 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 #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:37
BLANK TEST	0.000	10:38
INTERNAL STANDARD	VERIFIED	10:38
EXTERNAL STANDARD	0.077	10:38
BLANK TEST	0.000	10:39
SUBJECT SAMPLE	INVALID	10:39



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100677

Date: 05/04/2012
Time: 10:53:19

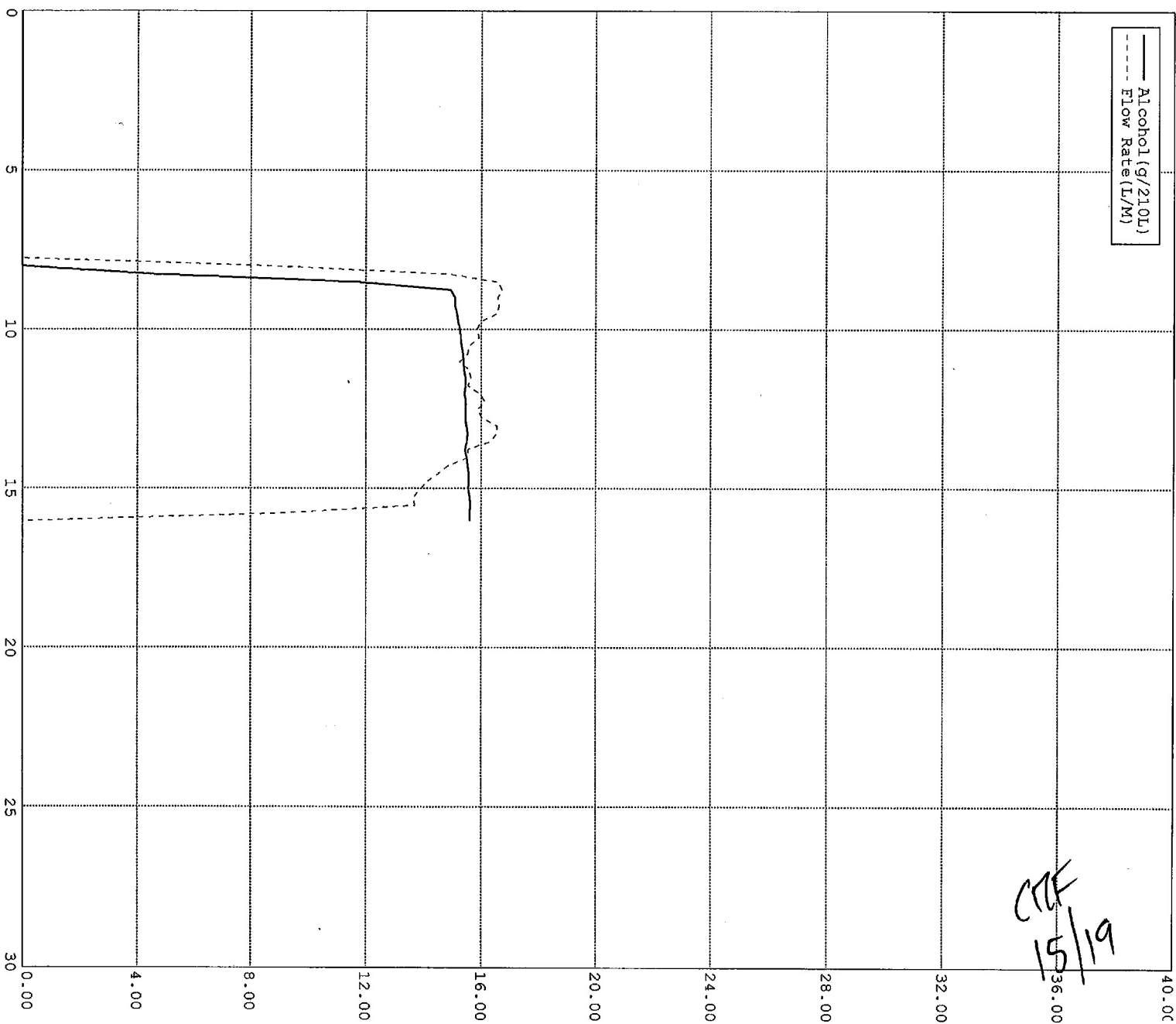
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE ETOH AND ACETONE
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 #: 02511080A2
EXPIRATION: 02/01/2013

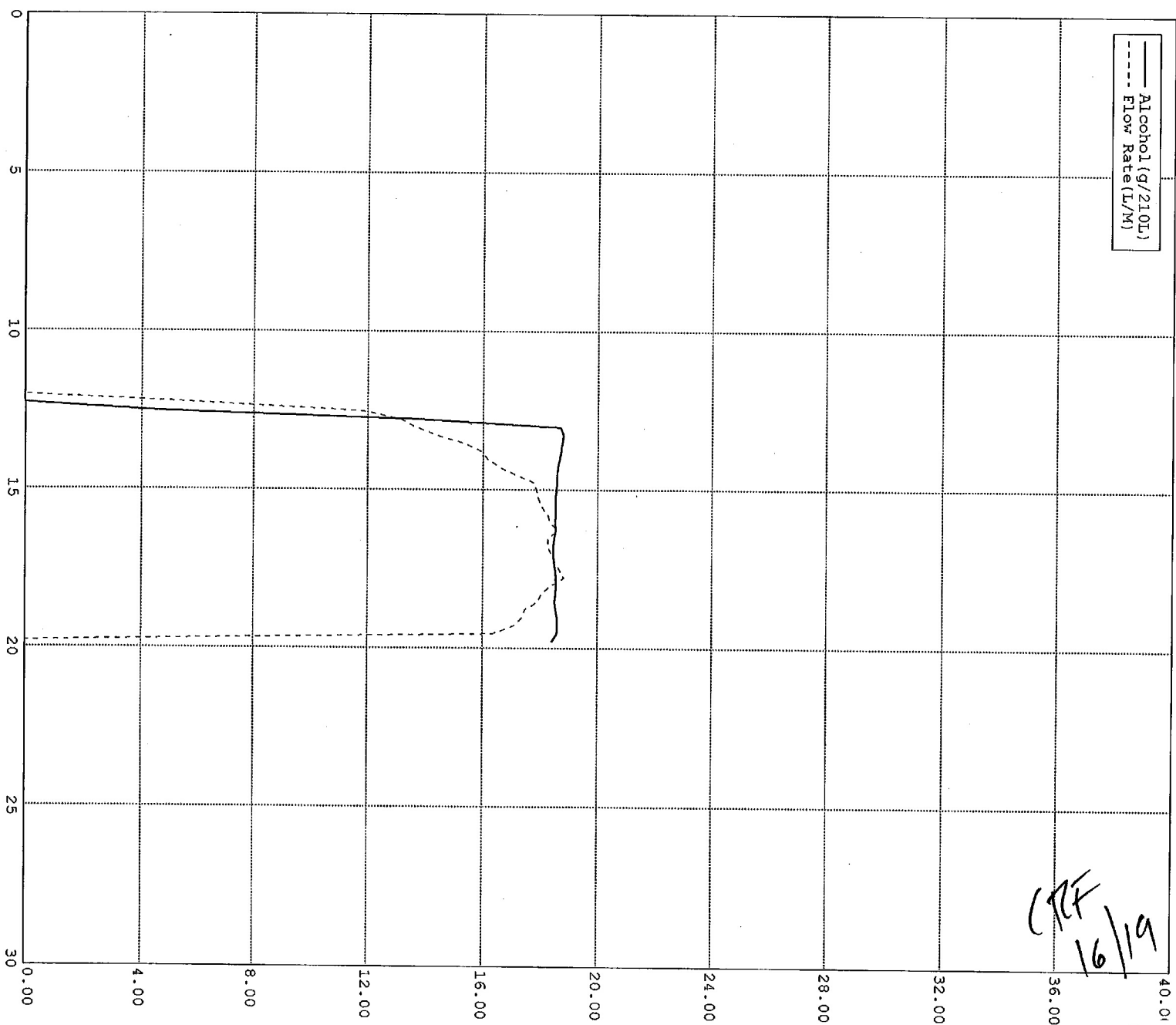
DIAGNOSTIC CHECK	PASSED	10:55
BLANK TEST	0.000	10:55
INTERNAL STANDARD	VERIFIED	10:56
Xq = 0.084 (0.00%)		
EXTERNAL STANDARD	0.077	10:56
X[1] = 0.0778 (0.0013)	(0.0005)	
BLANK TEST	0.000	10:57
SUBJECT SAMPLE	INTERFERENCE	10:57
X[1] = 0.0784 (-0.0153)	(-0.0016)	



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100677Date: 05/04/2012
Time: 11:03:21SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE ETOH AND IPA
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOF #: 02511080A2
EXPIRATION: 02/01/2013

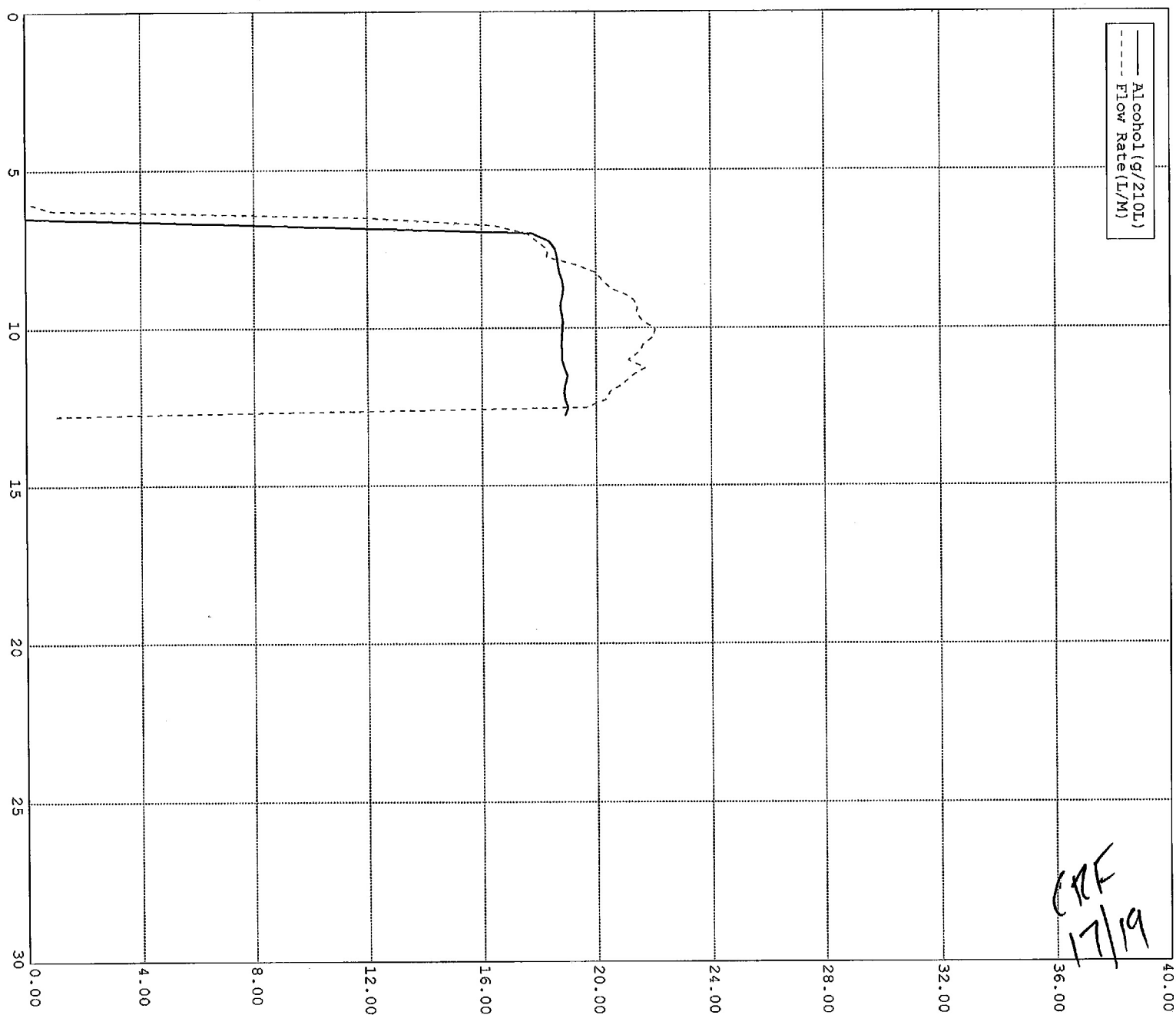
DIAGNOSTIC CHECK	PASSED	11:06
BLANK TEST	0.000	11:06
INTERNAL STANDARD	VERIFIED	11:06
Xq = 0.085 (0.41%)		
EXTERNAL STANDARD	0.078	11:06
X[1] = 0.0782 (0.0022)	(0.0009)	
BLANK TEST	0.000	11:07
SUBJECT SAMPLE	INTERFERENCE	11:08
X[1] = 0.0924 (-0.0277)	(-0.0002)	



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100677Date: 05/04/2012
Time: 11:17:12SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE ETOH ONLY
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

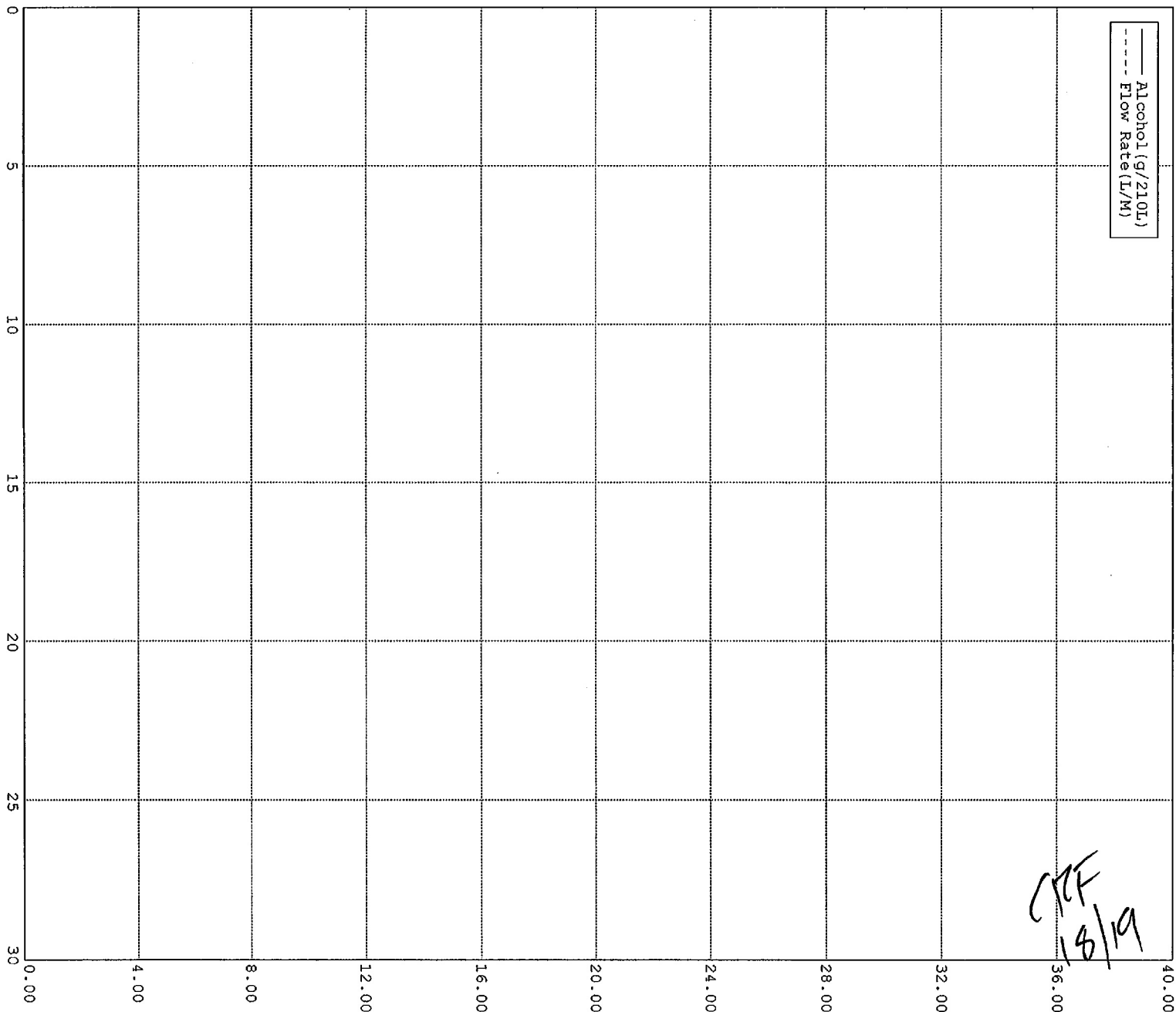
DIAGNOSTIC CHECK	PASSED	11:22
BLANK TEST	0.000	11:22
INTERNAL STANDARD	VERIFIED	11:22
Xq = 0.085 (0.31%)	0.078	11:23
EXTERNAL STANDARD	X[1] = 0.0781 (0.0011)	(0.0006)
BLANK TEST	0.000	11:23
SUBJECT SAMPLE (Vol=2.08L)	0.094	11:24
X[1] = 0.0945 (-0.0007)	(-0.0003)	
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.078	11:25
X[1] = 0.0783 (0.0022)	(0.0007)	
BLANK TEST	0.000	11:26



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100677Date: 05/04/2012
Time: 11:34:28SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 11:35
INTERNAL STANDARD VERIFIED 11:35
EXTERNAL STANDARD 0.077 11:35
BLANK TEST 0.000 11:36

RFI DETECTED

Alcohol (g/210L)
Flow Rate (L/M)

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100677

Date: 05/04/2012
 Time: 14:07:48

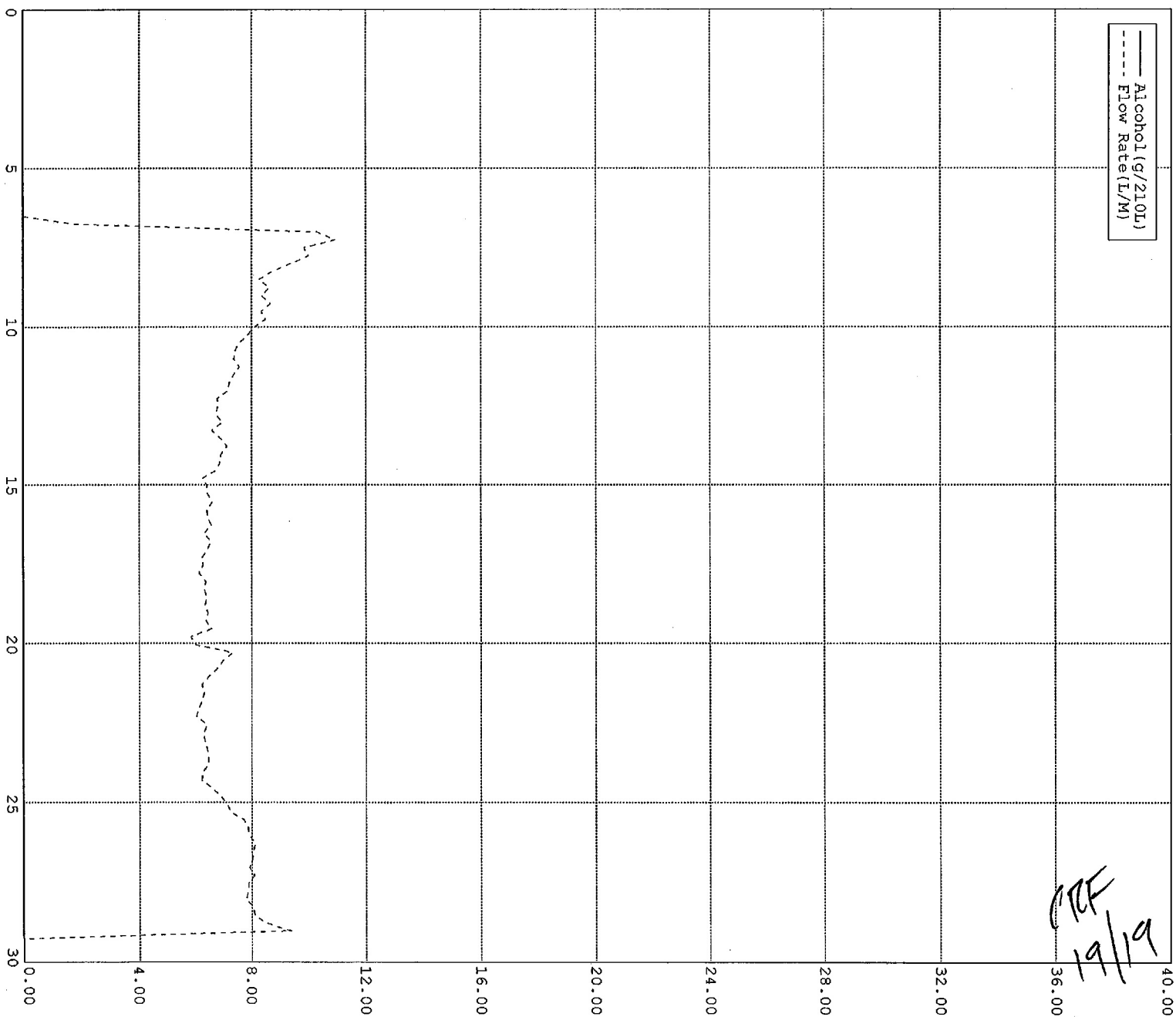
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.69: 0.079
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:09
BLANK TEST	0.000	14:09
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.078	14:10
BLANK TEST	0.000	14:11
SUBJECT SAMPLE	0.000	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.078	14:12
BLANK TEST	0.000	14:13



Final page for report

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11/19/2013