

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100343 Analyst CTF Start Date 8/1/12

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 1.400 mL (1.3L to 1.7L)

4. Linearity Test (attached)

- a. Levels Used
 - i. 0.020g/210L Mnf ILMC Lot 07611020A5 Exp 3/1/13
 - ii. 0.040g/210L Mnf ILMC Lot 07611040A4 Exp 3/1/13
 - iii. 0.080g/210L Mnf ILMC Lot 02012090A1 Exp 3/1/14
 - iv. 0.100g/210L Mnf ILMC Lot 07611100A3 Exp 3/1/13
 - v. 0.200g/210L Mnf with Lot 1120 Exp 7/19/13
 - 1. Simulator S/N SD1198 Date Calibrated 1/10/12
 - vi. 0.300g/210L Mnf with Lot 1110 Exp 7/13/13
 - 1. Simulator S/N SD1176 Date Calibrated 8/17/11

5. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference
 - i. Acetone - Mnf with Lot 11250 Level 0.10 Exp 12/6/13
 - 1. Simulator S/N SD1199 Date Calibrated 1/11/12
 - ii. Isopropanol - Mnf with Lot 11100 Level 0.10 Exp 7/6/13
 - 1. Simulator S/N DR6267 Date Calibrated 1/10/12
 - iii. Negative Control - Mnf with Lot 11220 Level 0.100 Exp 10/24/13
 - 1. Simulator S/N SD1202 Date Calibrated 8/17/11

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 A/A

End Date 8/2/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 08/01/2012
Time: 10:55:41

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 46.7°C	PASSED

PUMP INFO
Flow Rate = 5.029 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

2/19 WF

Technician Screen

DATAMASTER dmt: 100343

Date: 08/01/2012
Time: 11:04 AM

Temperatures (°C)
Sample Cell: 49.0°C
Breath Tube: 45.9°C

Current Barometer 29.6 in
Volume (Ltr) 1.51

Settings
Lamp: 1.75 V
Bias: 79 V
Cooler: 1.76 V
Chopper: 538 Hz

Voltages (V)
Flow: 1.06 V
Detector: 0.033 V

3/19 LF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 07/26/2011
Time: 13:35:51

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

LOT #: 11050
BOTTLE #: 481
EXPIRATION: 04/06/2013

Ca = 0.1000
CAL = 0.997941 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0024 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.0839 0.0500 <= Xq < 0.2000
a21 = 1.158061 1.050 <= a21 < 1.300
a31 = 0.501484 0.300 <= a31 < 0.800

4/19
LF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100343

Date: 08/01/2012
 Time: 11:16:03

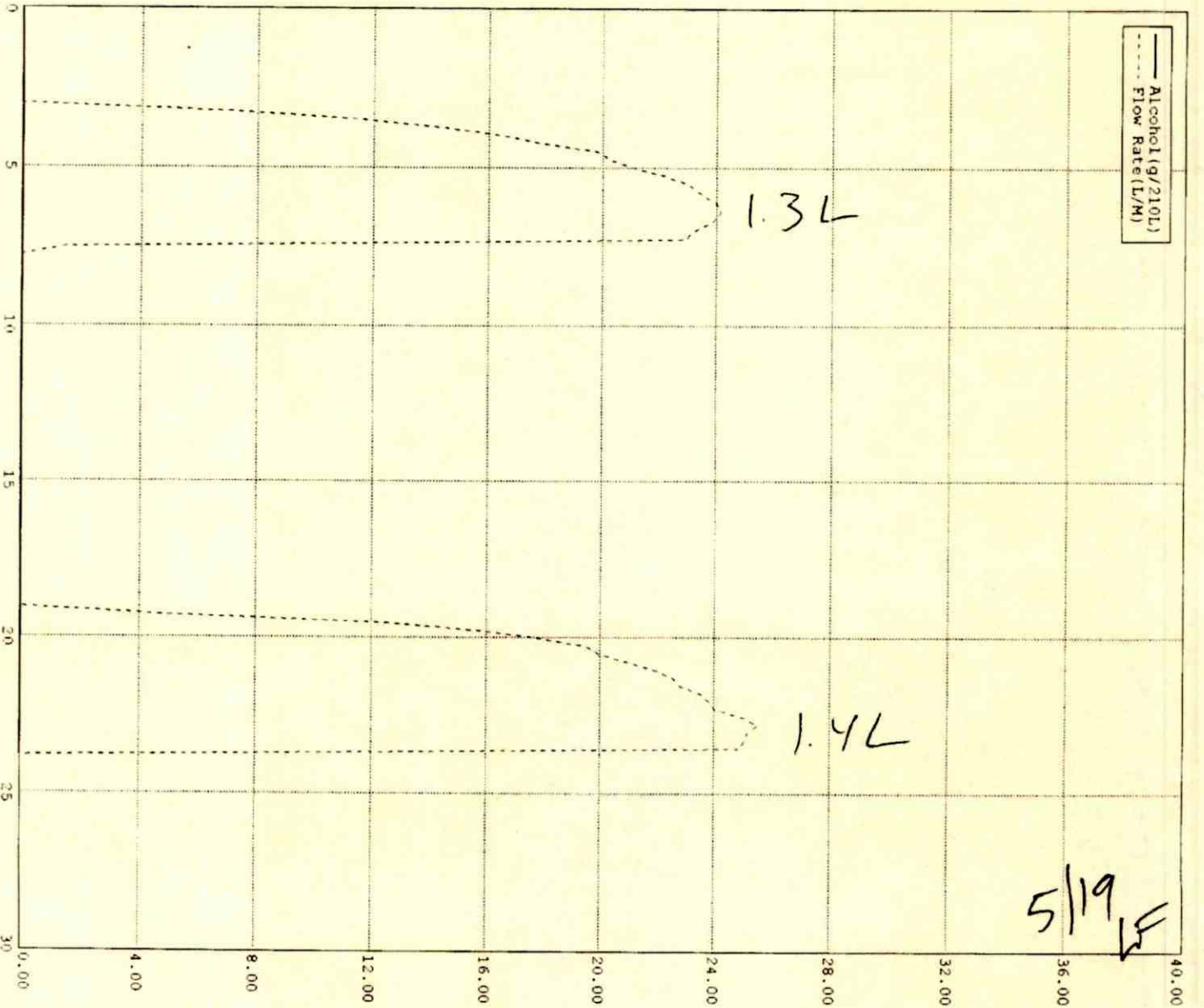
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.65: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:22
BLANK TEST	0.000	11:22
INTERNAL STANDARD	VERIFIED	11:22
EXTERNAL STANDARD	0.079	11:22
BLANK TEST	0.000	11:23
SUBJECT SAMPLE	0.000	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.079	11:25
BLANK TEST	0.000	11:26



LINEARITY CHECK

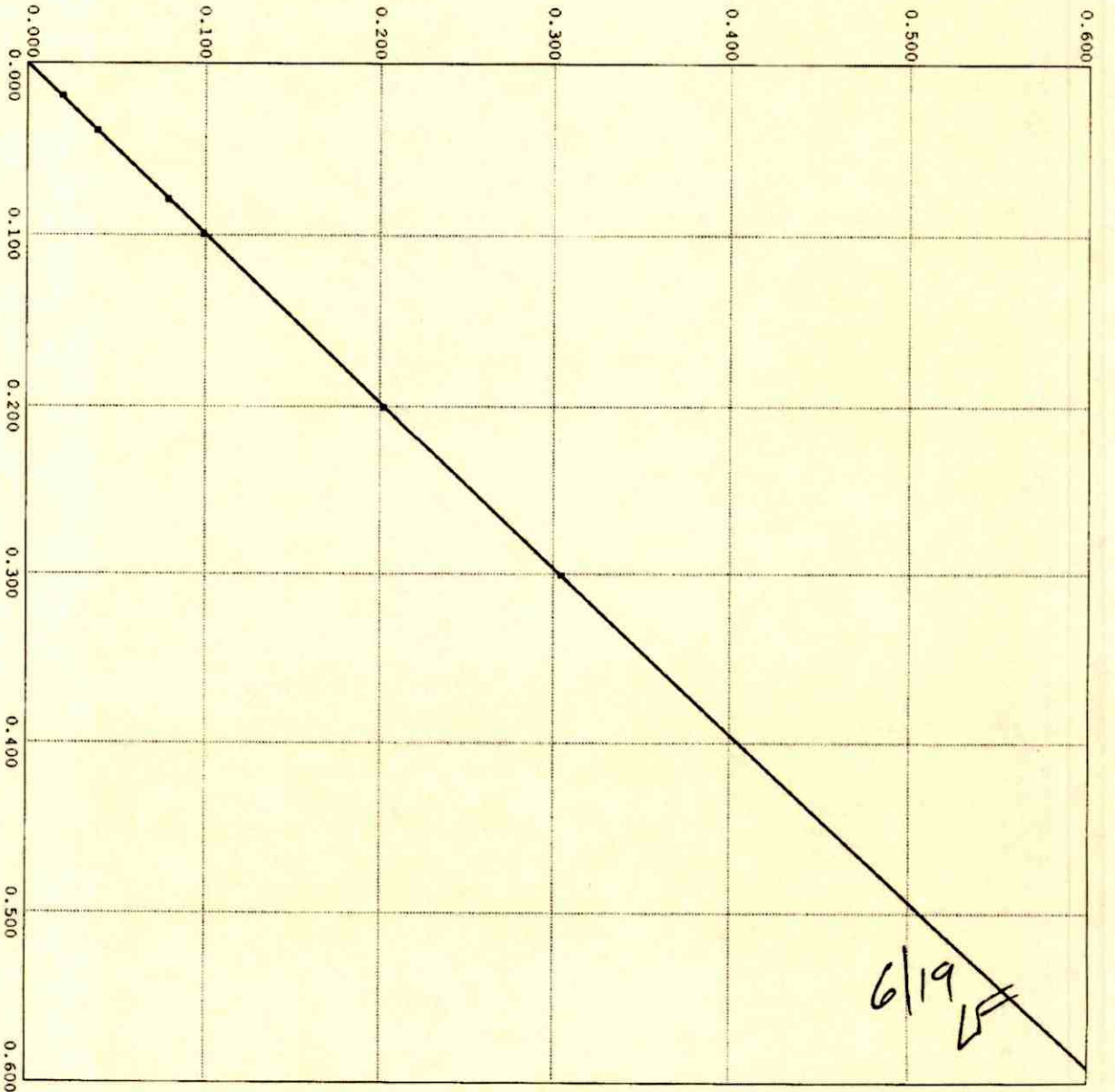
Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 08/01/2012
Time: 12:40:57

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0203	0.0003
0.039	0.0401	0.0003
0.079	0.0799	0.0002
0.099	0.0998	0.0004
0.200	0.2029	0.0002
0.300	0.3054	0.0002

SLOPE = 1.015546
R² = 0.999959



LINEARITY CHECK: Control Test 1

 Alaska Department of Public Safety
 DATAMASTER dmt: 100343

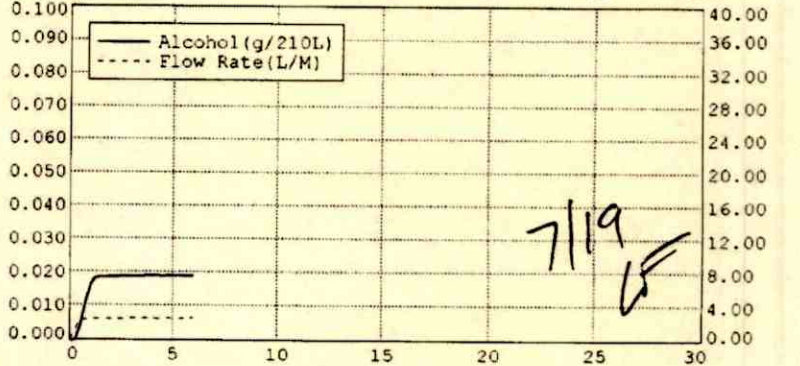
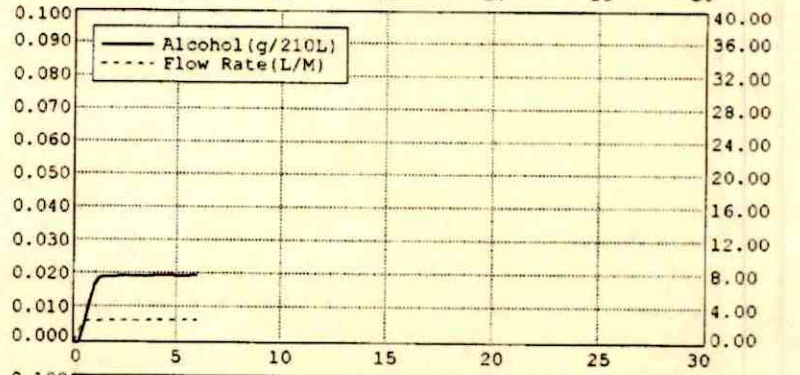
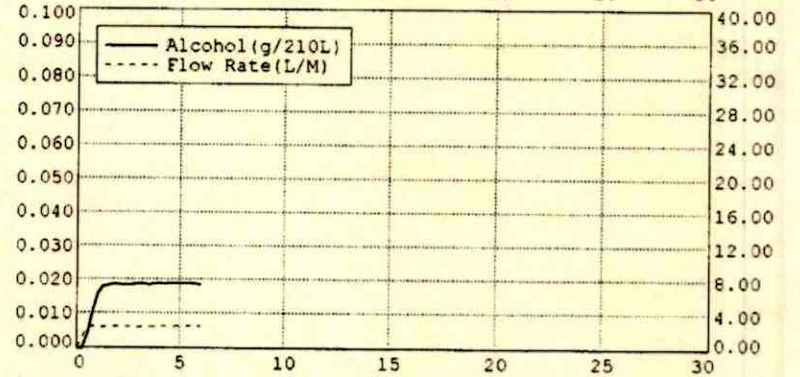
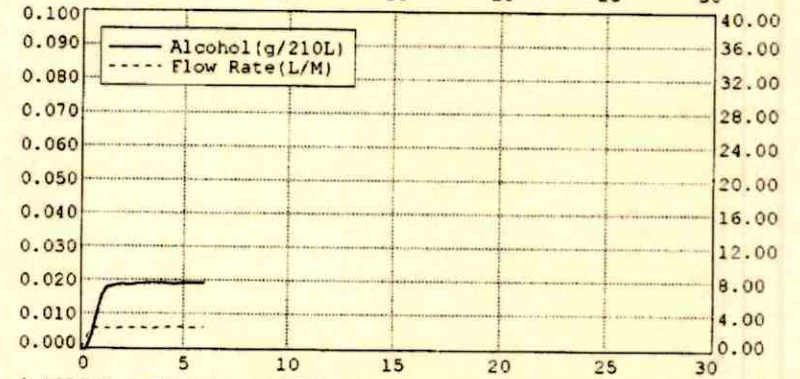
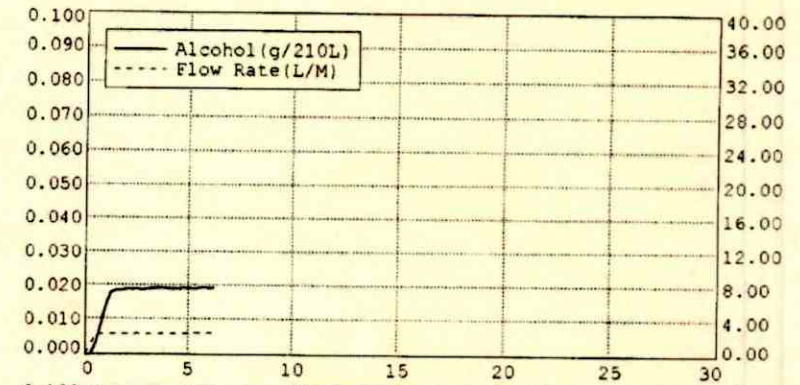
Date: 08/01/2012
 Time: 12:40:59

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:42
INTERNAL STANDARD	VERIFIED	12:42
EXTERNAL STANDARD	0.020	12:42
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.020	12:43
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.020	12:45
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.020	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.020	12:47
BLANK TEST	0.000	12:48

Average = 0.0203
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100343

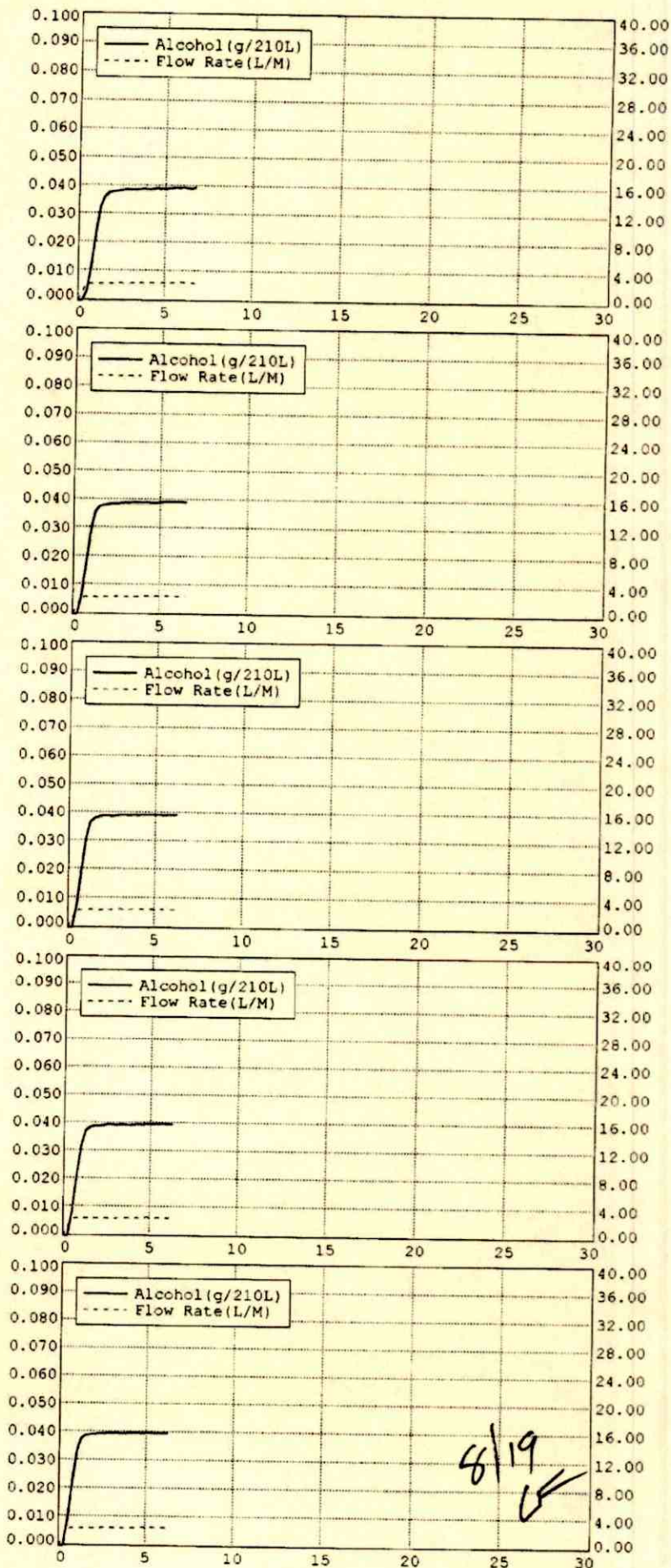
Date: 08/01/2012
Time: 12:49:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.63: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:50
INTERNAL STANDARD	VERIFIED	12:50
EXTERNAL STANDARD	0.040	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.039	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.040	12:53
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.040	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.040	12:55
BLANK TEST	0.000	12:56

Average = 0.0401
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100343

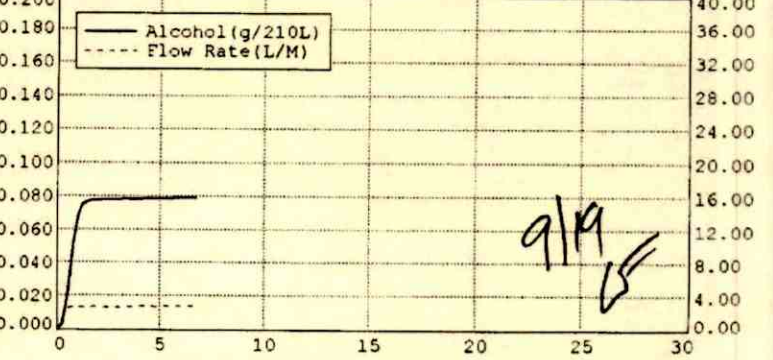
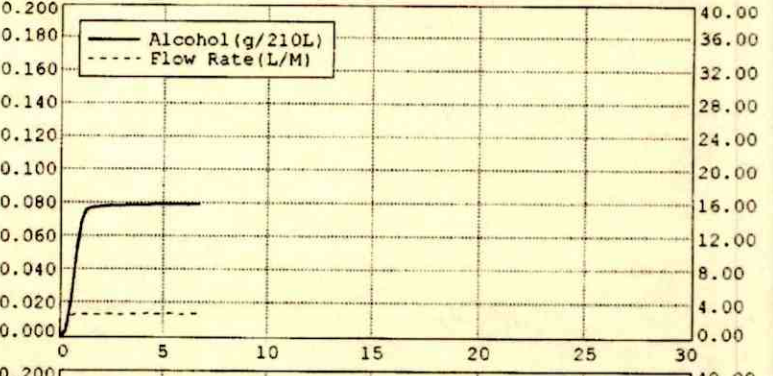
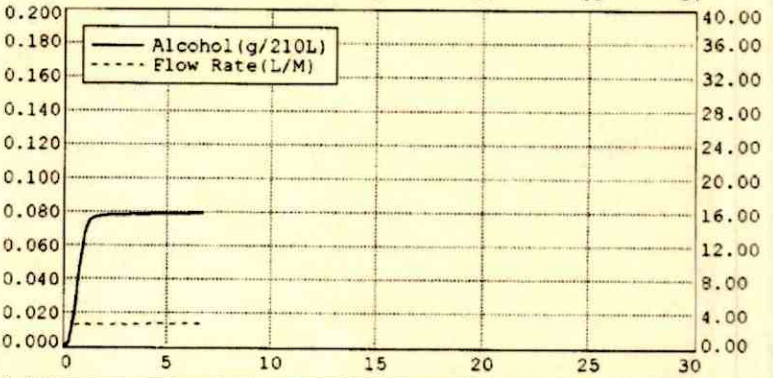
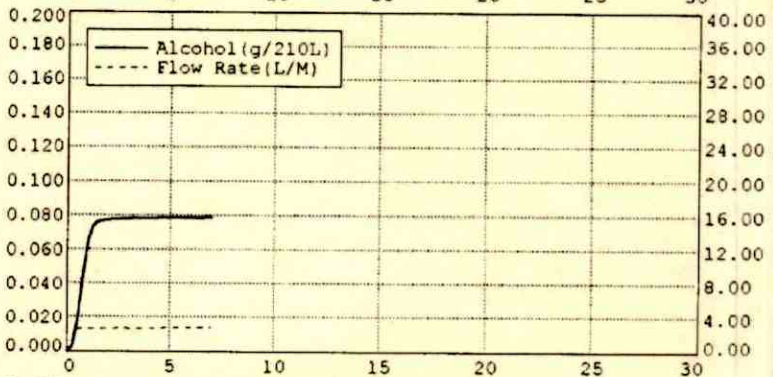
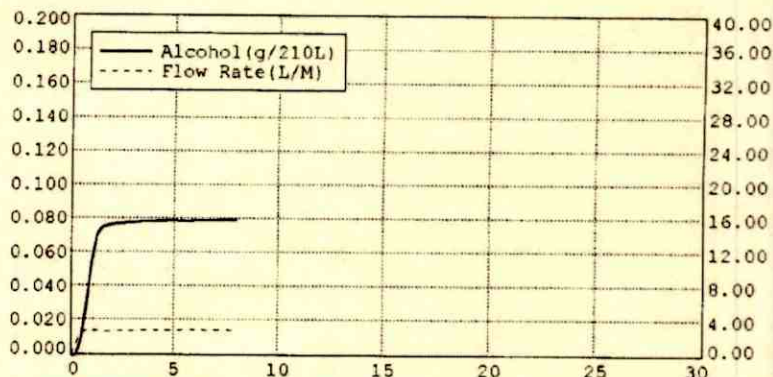
Date: 08/01/2012
 Time: 12:56:54

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:58
INTERNAL STANDARD	VERIFIED	12:58
EXTERNAL STANDARD	0.079	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.079	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.080	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.080	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.079	13:03
BLANK TEST	0.000	13:03

Average = 0.0799
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100343

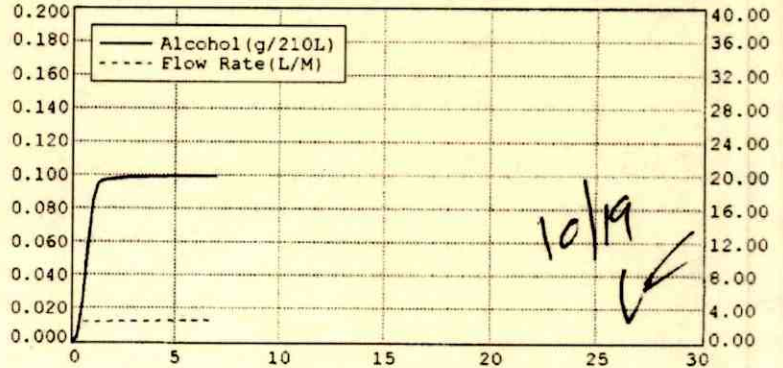
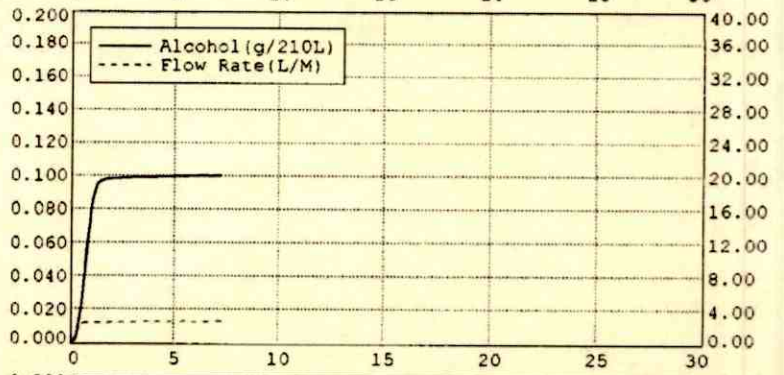
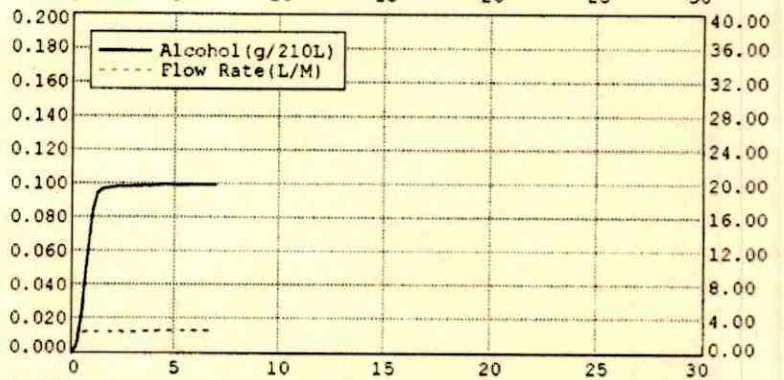
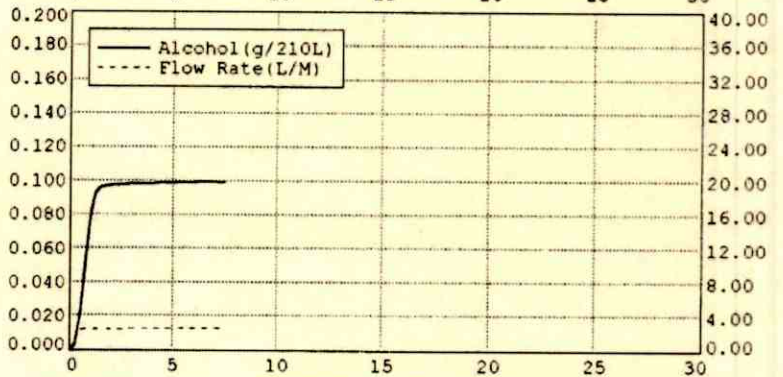
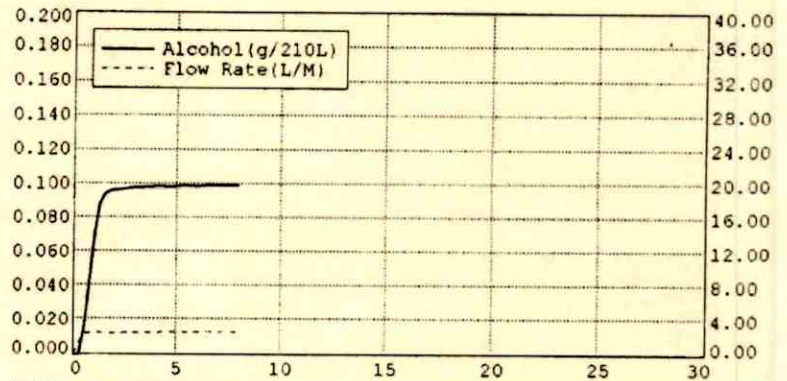
Date: 08/01/2012
Time: 13:04:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.64: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:05
INTERNAL STANDARD	VERIFIED	13:05
EXTERNAL STANDARD	0.099	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.099	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.099	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.100	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.099	13:10
BLANK TEST	0.000	13:11

Average = 0.0998
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100343

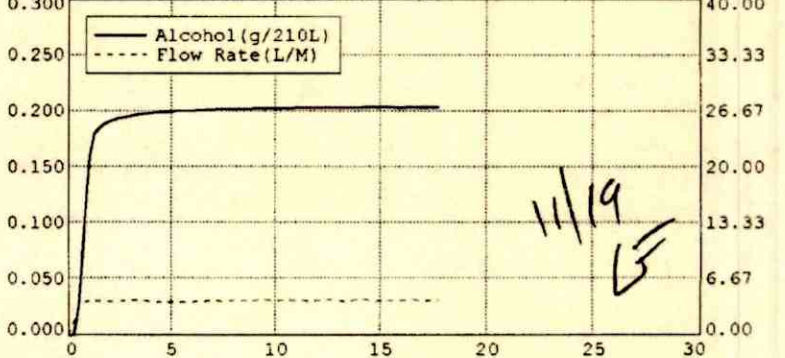
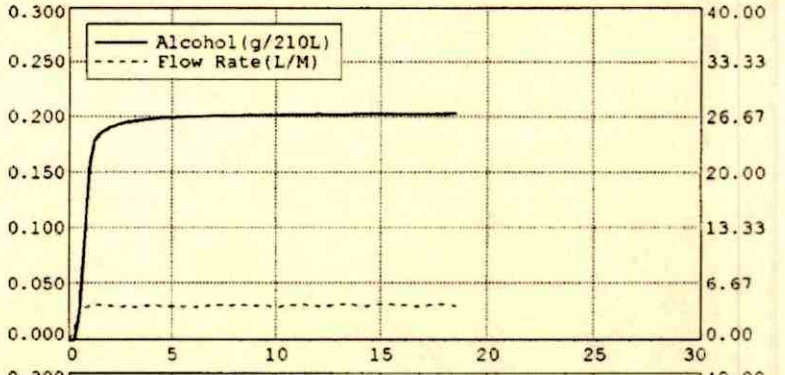
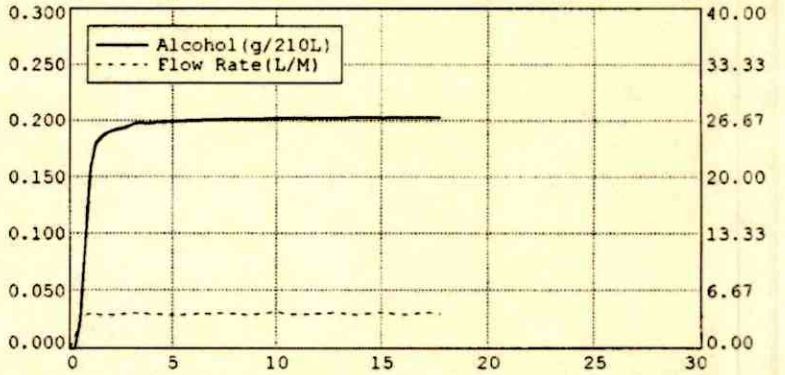
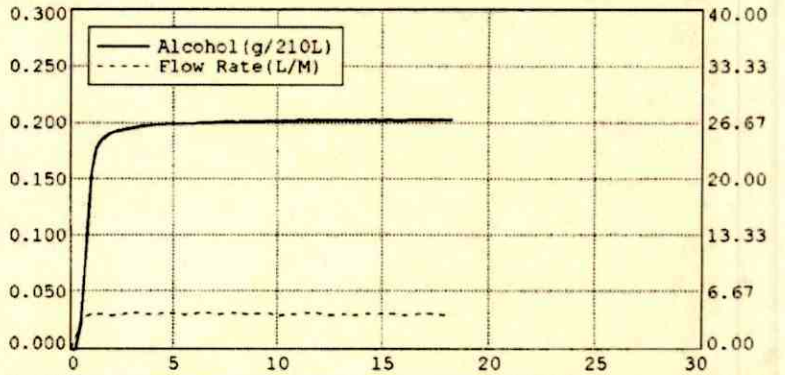
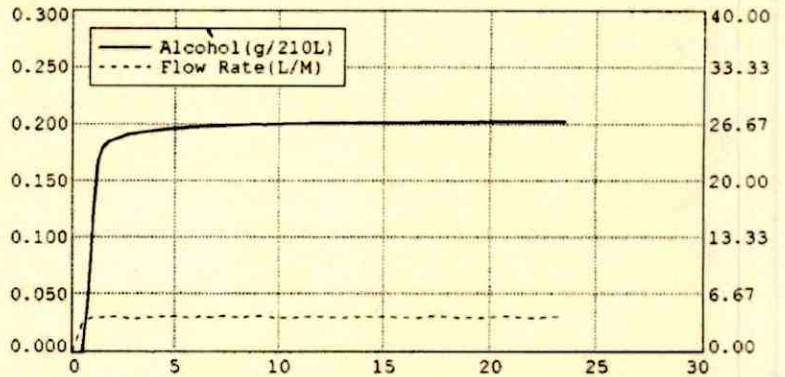
Date: 08/01/2012
 Time: 13:12:20

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:14
INTERNAL STANDARD	VERIFIED	13:14
EXTERNAL STANDARD	0.202	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.202	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.202	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.203	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.203	13:20
BLANK TEST	0.000	13:21

Average = 0.2029
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100343

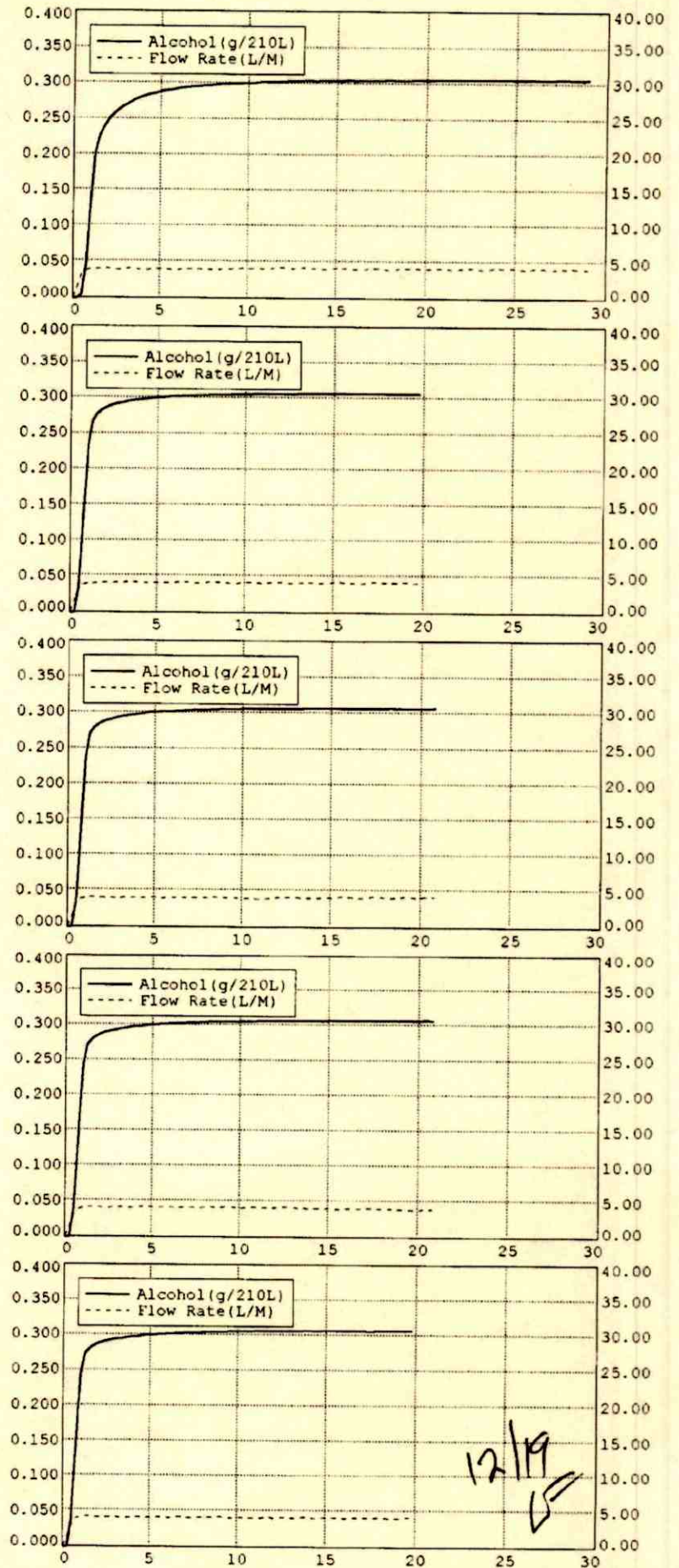
Date: 08/01/2012
Time: 13:24:38

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:25
INTERNAL STANDARD	VERIFIED	13:25
EXTERNAL STANDARD	0.305	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.305	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.305	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.305	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.305	13:32
BLANK TEST	0.000	13:33

Average = 0.3054
Std Dev = 0.0002



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 08/01/2012
Time: 14:00:06

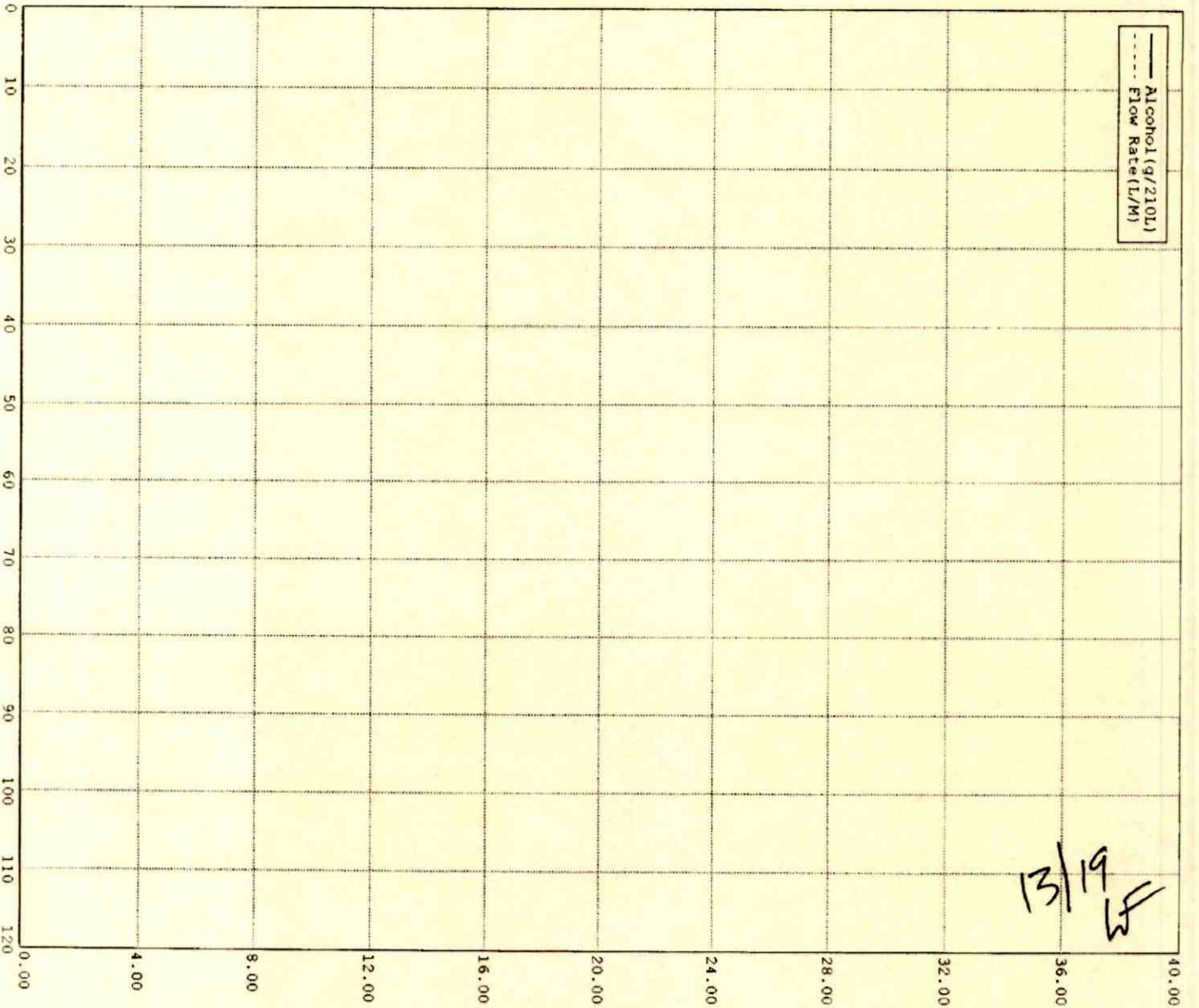
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:02
BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.079	14:03
BLANK TEST	0.000	14:03
SUBJECT SAMPLE	INCOMPLETE	14:06



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 08/01/2012
Time: 14:31:23

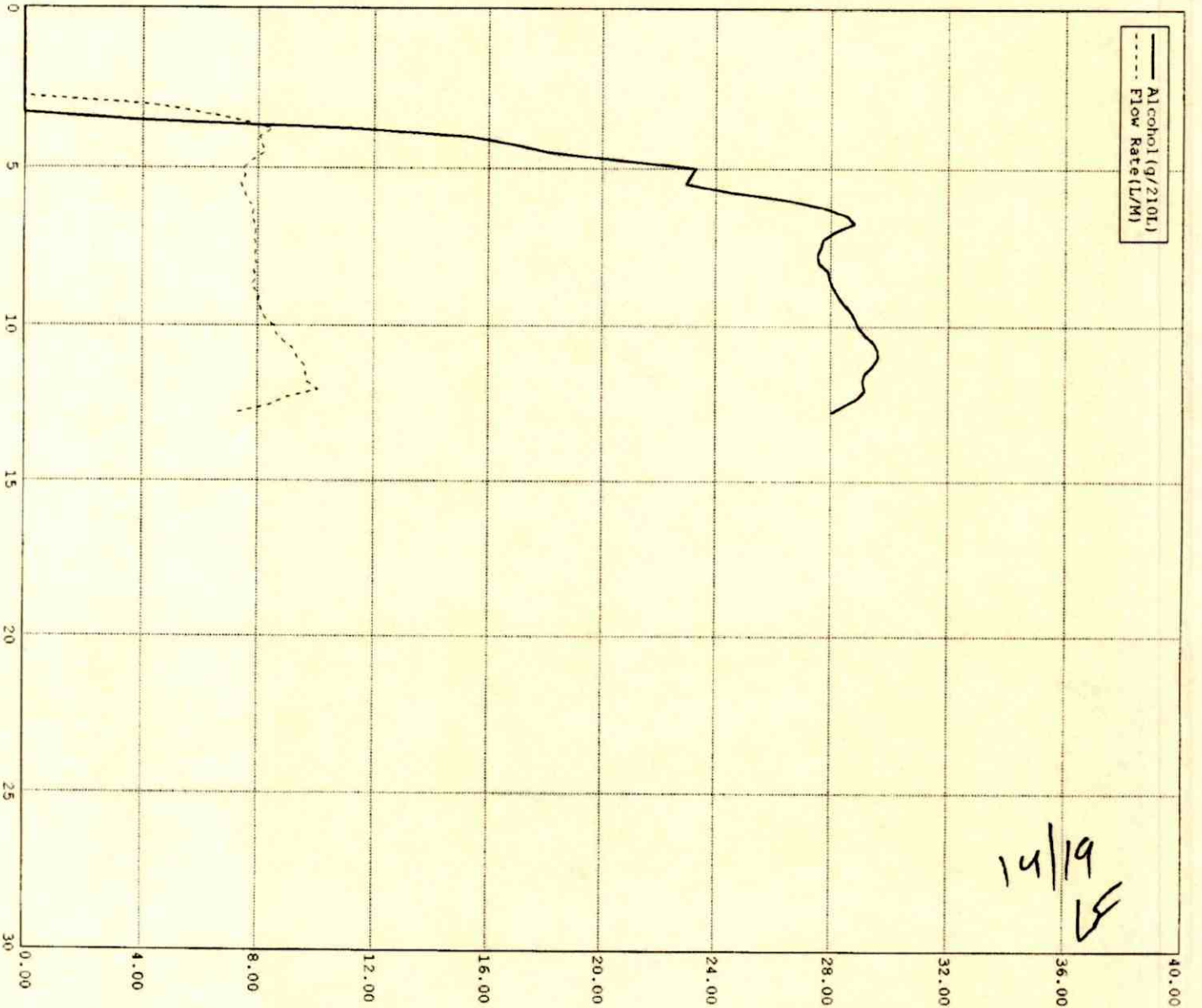
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID KNOWN MOUTH ETOH
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:34
BLANK TEST	0.000	14:34
INTERNAL STANDARD	VERIFIED	14:34
EXTERNAL STANDARD	0.079	14:35
BLANK TEST	0.000	14:36
SUBJECT SAMPLE	INVALID	14:36



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100343

Date: 08/01/2012
 Time: 14:40:58

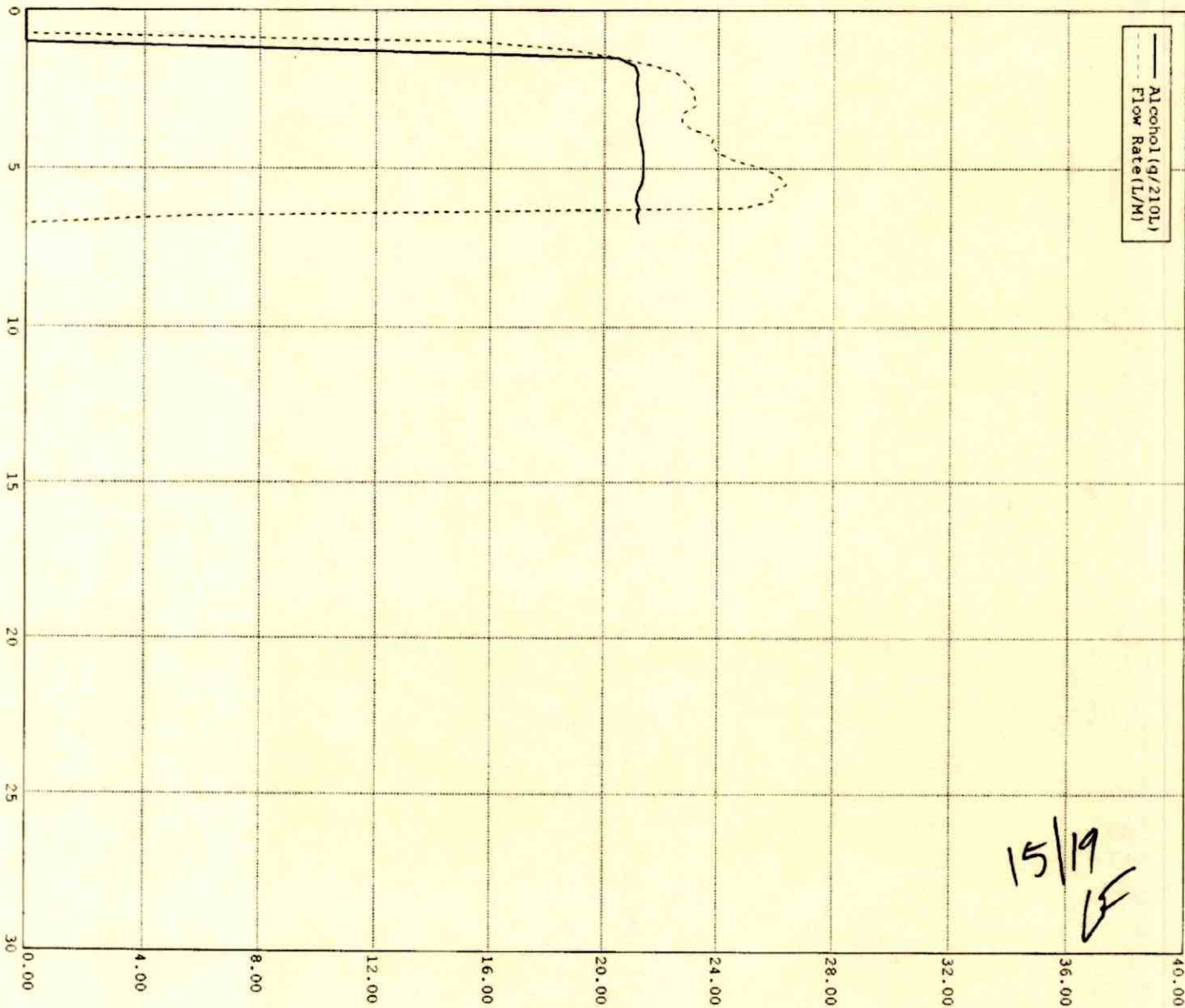
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.61: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:43
BLANK TEST	0.000	14:43
INTERNAL STANDARD	VERIFIED	14:43
Xq = 0.084 (0.41%)		
EXTERNAL STANDARD	0.079	14:44
X[1] = 0.0799 (0.0019)	(0.0019)	
BLANK TEST	0.000	14:44
SUBJECT SAMPLE	INTERFERENCE	14:45
X[1] = 0.1045 (-0.0153)	(0.0020)	



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 08/01/2012
Time: 14:48:22

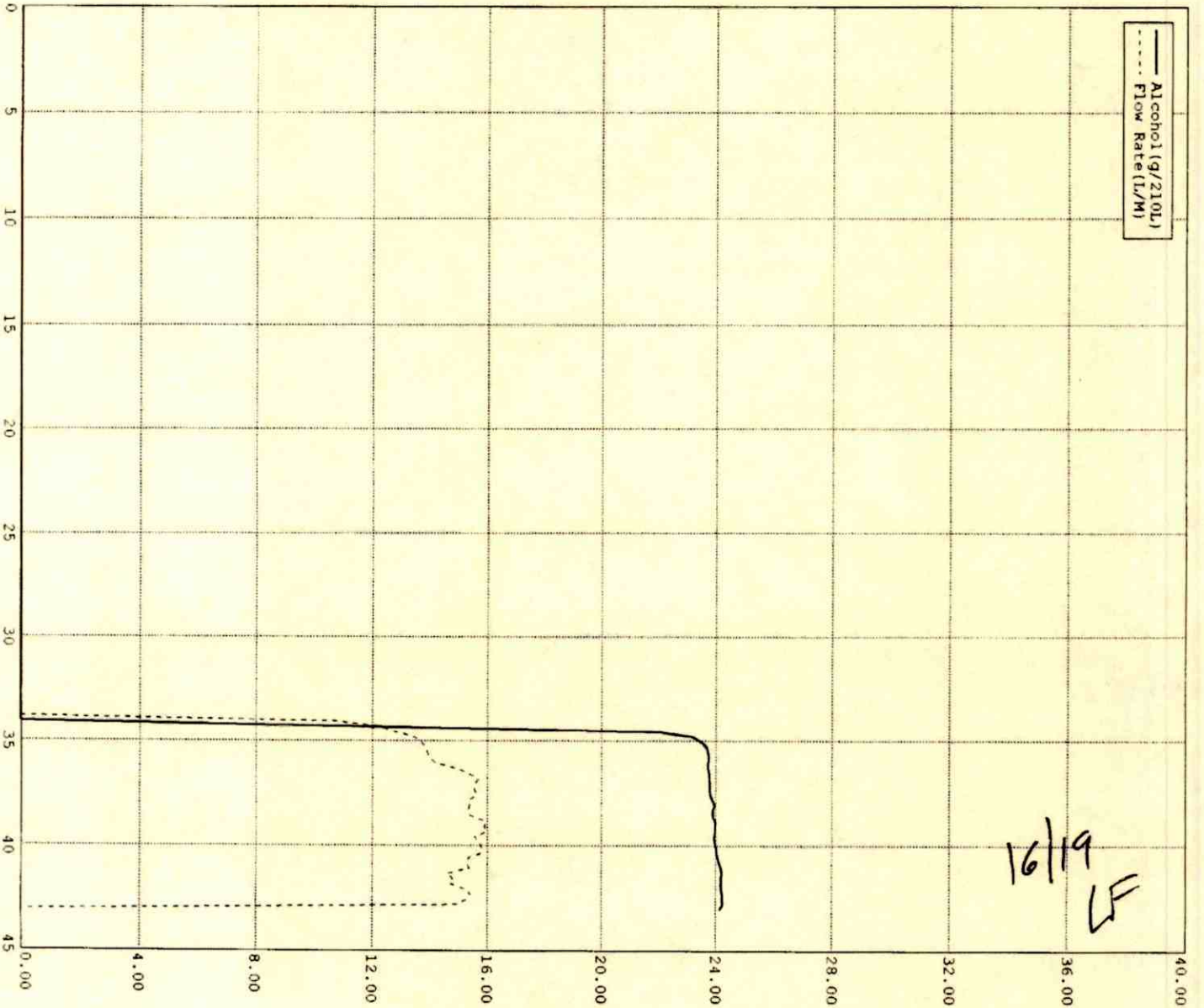
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE ETOH AND IPA
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:50
BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:51
Xq = 0.084 (0.52%)		
EXTERNAL STANDARD	0.079	14:51
X[1] = 0.0799 (0.0016) (0.0022)		
BLANK TEST	0.000	14:52
SUBJECT SAMPLE	INTERFERENCE	14:52
X[1] = 0.1193 (-0.0228) (0.0019)		



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100343

Date: 08/01/2012
 Time: 14:56:23

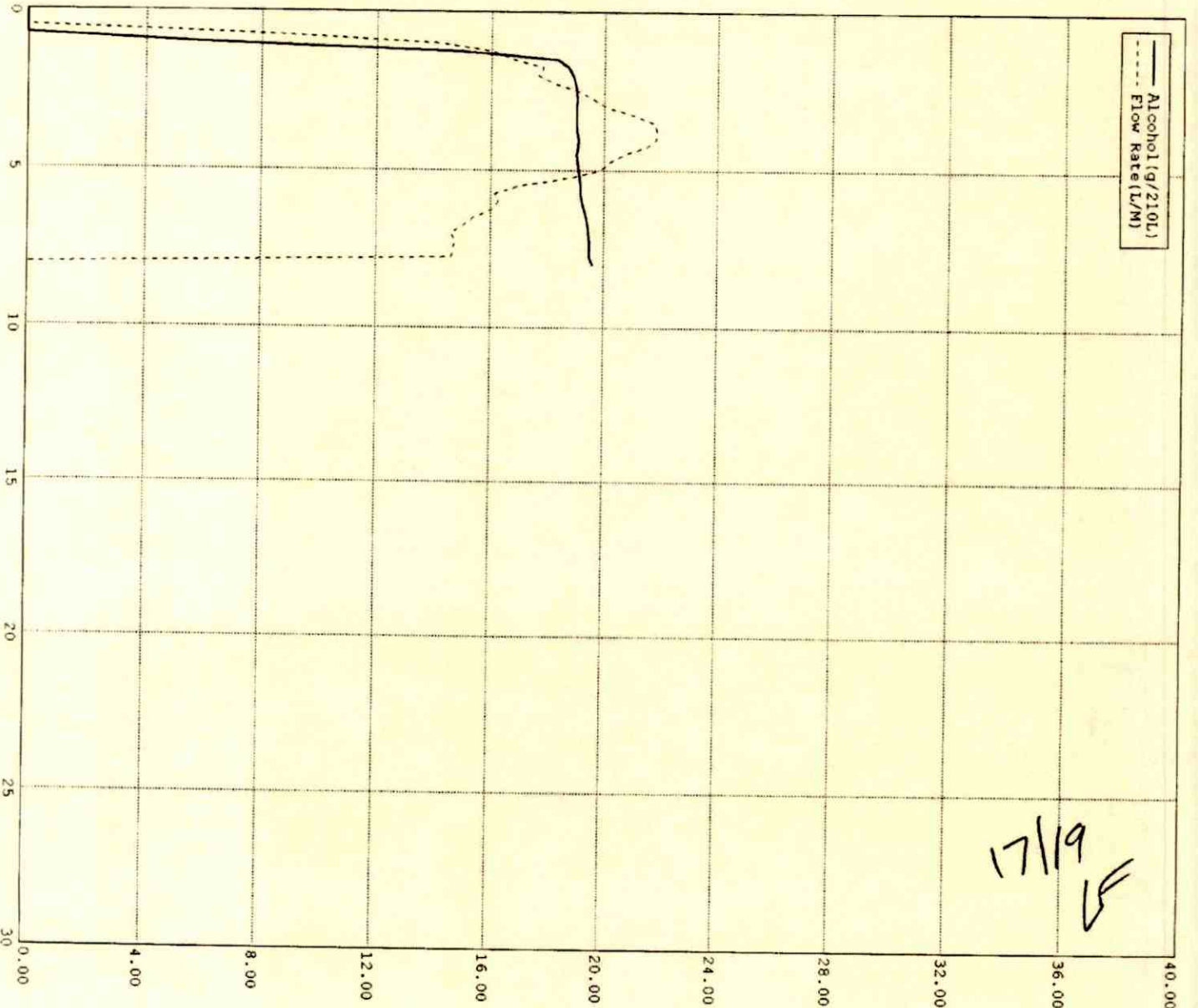
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE ETOH ONLY
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.60: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:58
BLANK TEST	0.000	14:58
INTERNAL STANDARD	VERIFIED	14:58
Xg = 0.085 (0.83%)		
EXTERNAL STANDARD	0.079	14:58
X[1] = 0.0797 (0.0016)	(0.0016)	
BLANK TEST	0.000	14:59
SUBJECT SAMPLE (Vol=2.13L)	0.096	15:00
X[1] = 0.0969 (0.0002)	(0.0012)	
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.079	15:01
X[1] = 0.0796 (0.0024)	(0.0023)	
BLANK TEST	0.000	15:02



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 08/01/2012
Time: 15:25:25

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

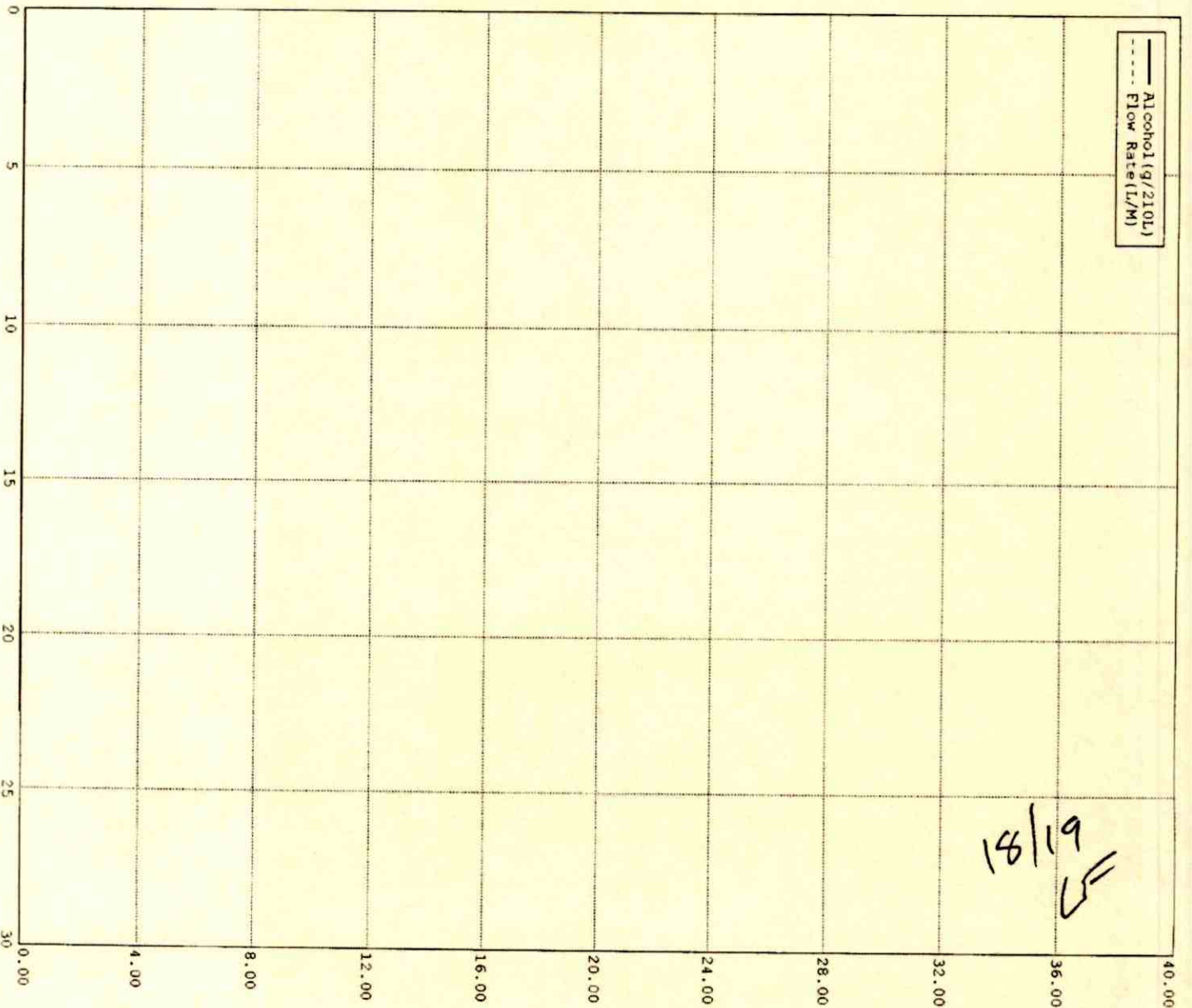
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:27
INTERNAL STANDARD	0.000	15:27
EXTERNAL STANDARD	0.079	15:27
BLANK TEST	0.000	15:28

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100343

Date: 08/02/2012
 Time: 08:12:14

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 29.58: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	08:14
BLANK TEST	0.000	08:14
INTERNAL STANDARD	VERIFIED	08:14
EXTERNAL STANDARD	0.079	08:14
BLANK TEST	0.000	08:15
SUBJECT SAMPLE	0.000	08:16
BLANK TEST	0.000	08:17
EXTERNAL STANDARD	0.079	08:17
BLANK TEST	0.000	08:18

