

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100387 Analyst CRF Start Date 7/17/12

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 1600 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 3/1/13
- ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13
- iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14
- iv. 0.100g/210L Mnf Guth Lot 1120 Exp 7/19/13 3/1/13
- v. 0.200g/210L Mnf Guth Lot 1120 Exp 7/19/13
- 1. Simulator S/N DR4163 Date Calibrated 8/18/11
- vi. 0.300g/210L Mnf Guth 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 Guth Lot 11250 Level 0.10 Exp 12/6/13
- 1. Simulator S/N SD1199 Date Calibrated 1/11/12
- ii. Isopropanol - Mnf Guth Lot 11100 Level 0.10 Exp 7/6/13
- 1. Simulator S/N DR6267 Date Calibrated 1/10/12
- iii. Negative Control - Mnf Guth 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 N/A

End Date 7/23/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 07/17/2012
Time: 09:43:19

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 = 5.090 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: 100387

Date: 07/17/2012
Time: 10:05 AM

Temperatures (°C)
Sample Cell: 49.5°C
Breath Tube: 47.9°C

Current Barometer 30.0 in
Volume (Ltr) 1.45

Settings
Lamp: 1.72 V
Bias: 79 V
Cooler: 1.74 V
Chopper: 543 Hz

Voltages (V)
Flow: 1.05 V
Detector: 0.004 V

3/19 WF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 07/11/2012
Time: 14:31:08

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 0.955298 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0051 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0933 0.0500 <= Xq < 0.2000
a21 = 1.164834 1.050 <= a21 < 1.300
a31 = 0.461783 0.300 <= a31 < 0.800

4/19 WF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100387

Date: 07/17/2012
 Time: 10:35:55

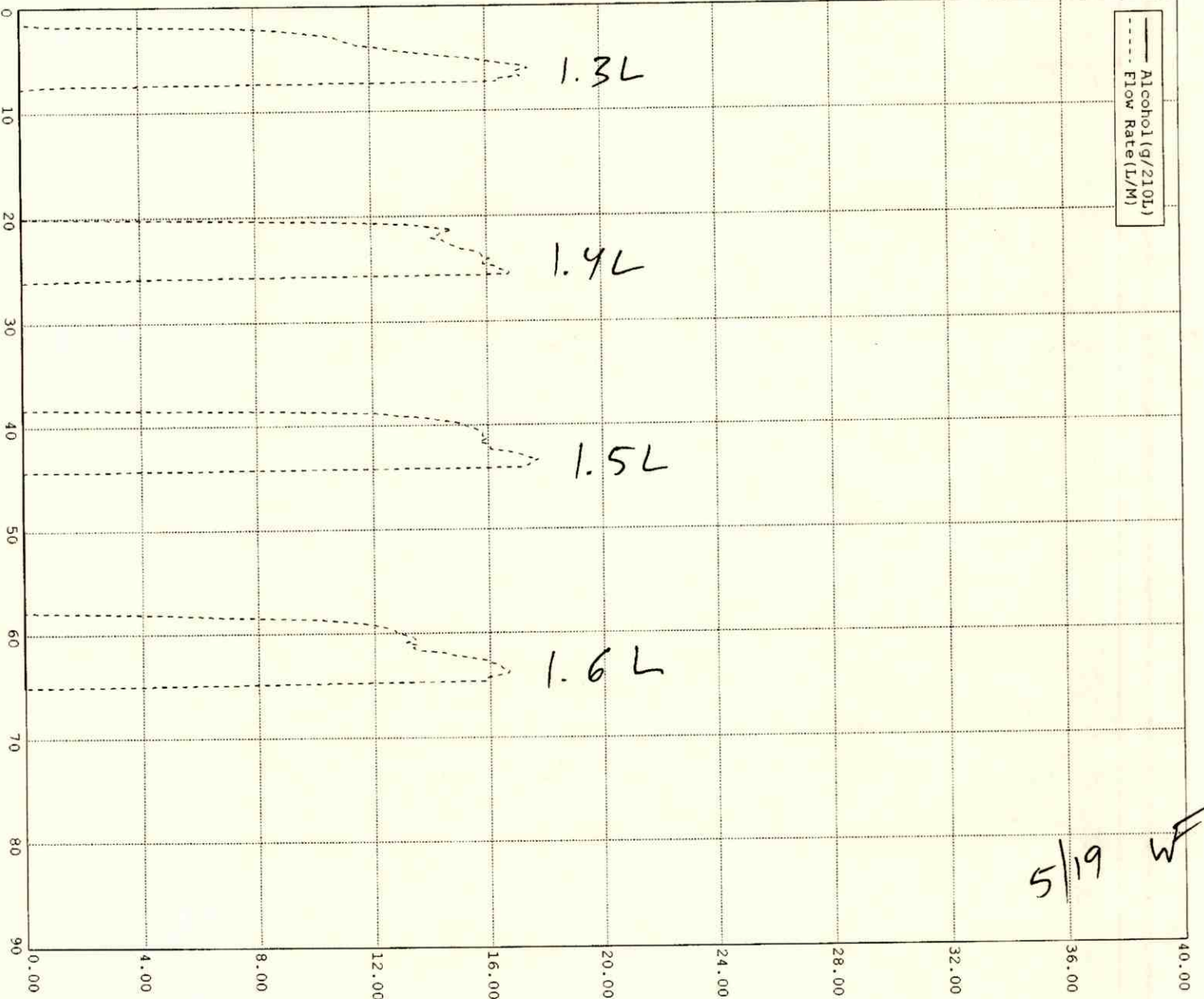
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.99: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

TEST TYPE	PASSED	10:41
DIAGNOSTIC CHECK	0.000	10:41
INTERNAL STANDARD	0.078	10:41
EXTERNAL STANDARD	0.000	10:42
SUBJECT SAMPLE	0.000	10:43
INTERNAL STANDARD	0.079	10:44
EXTERNAL STANDARD	0.000	10:45



LINEARITY CHECK

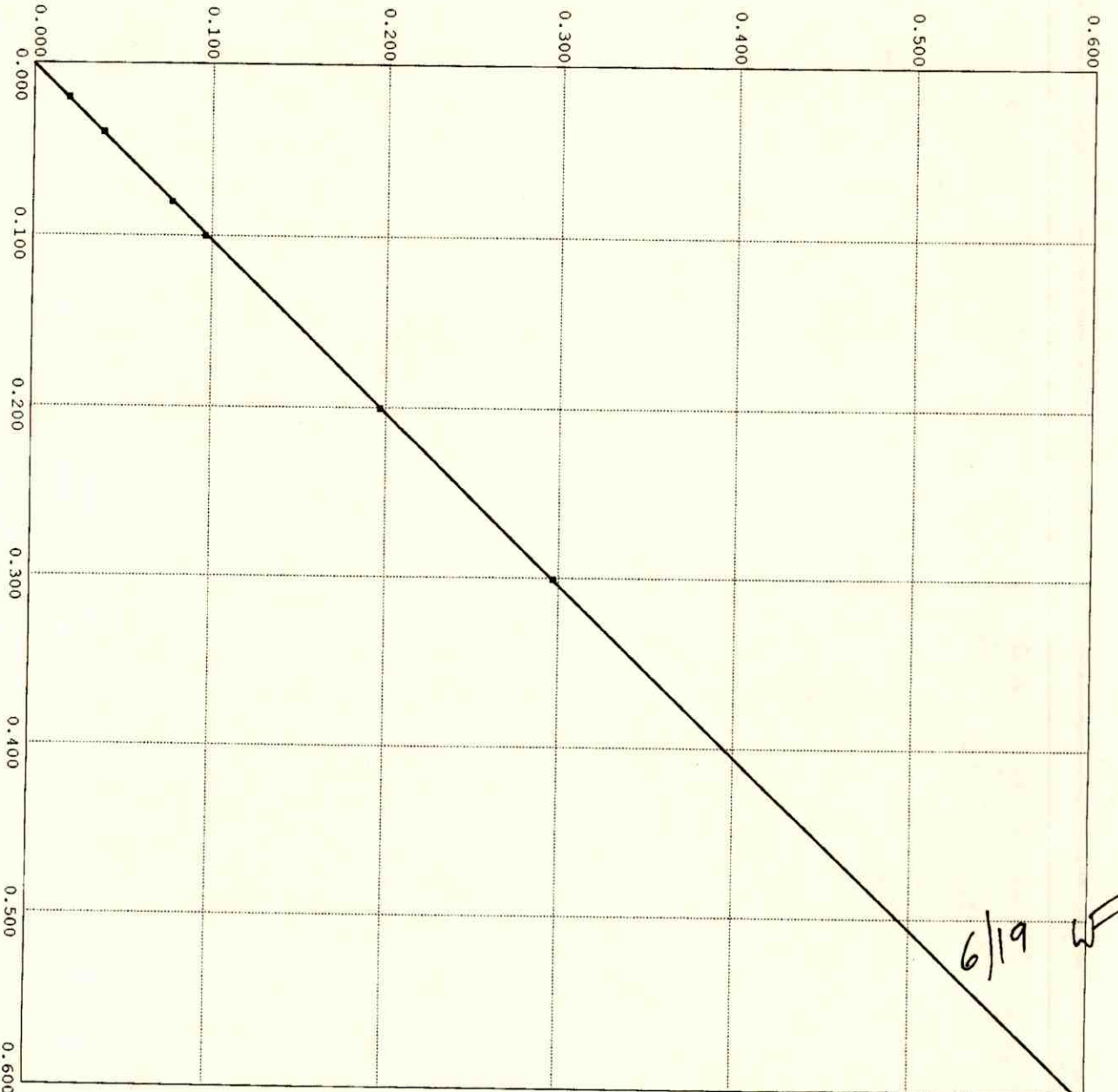
Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 07/17/2012
 Time: 11:28:36

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.020	0.0203	0.0002
0.040	0.0400	0.0002
0.080	0.0787	0.0003
0.100	0.0974	0.0002
0.200	0.1977	0.0002
0.300	0.2976	0.0003

SLOPE = 0.990965
 R² = 0.999941



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

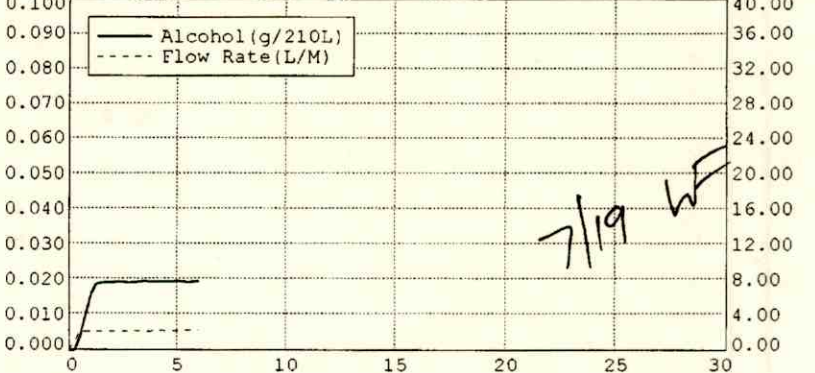
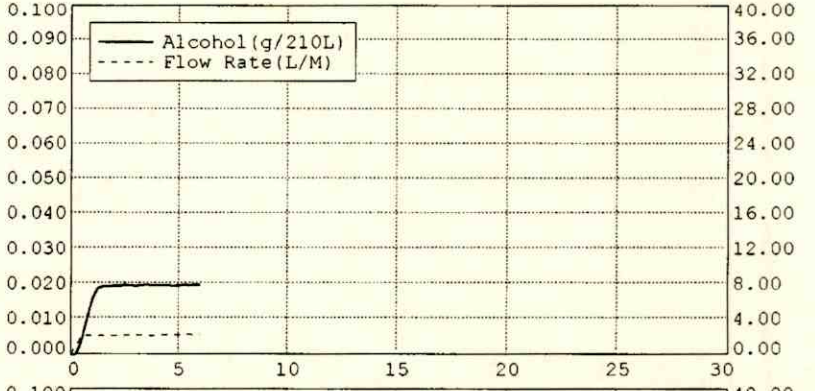
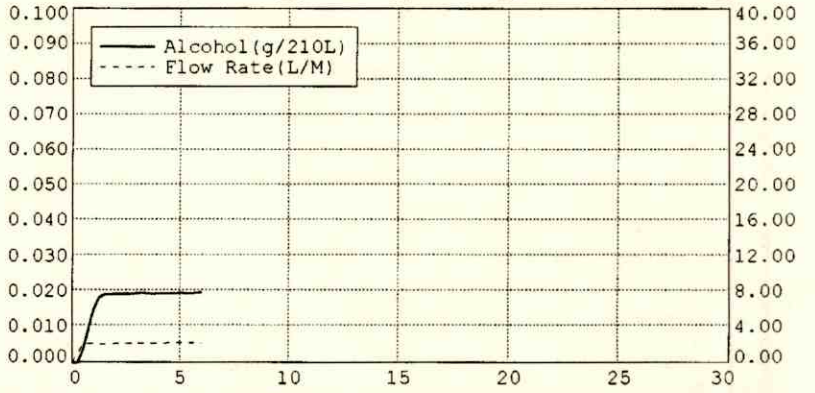
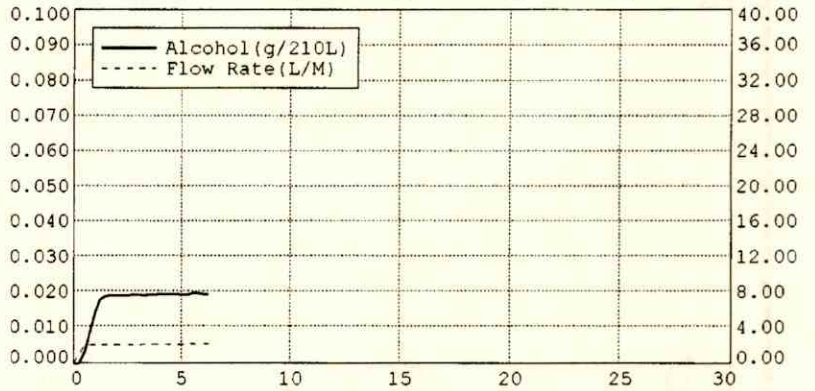
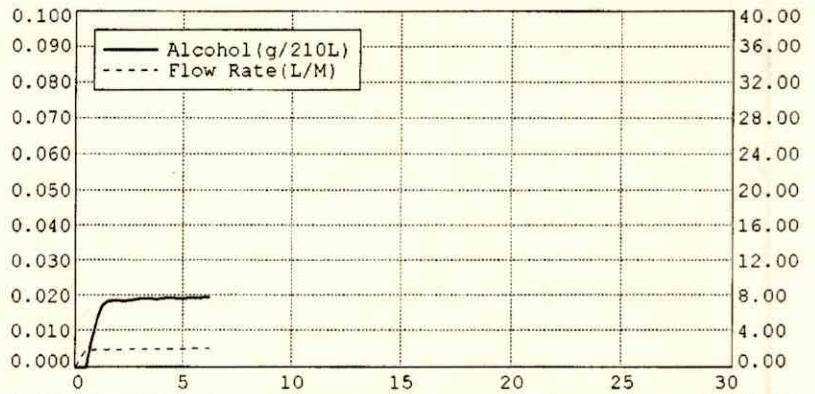
Date: 07/17/2012
 Time: 11:28:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.98: 0.020
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:29
INTERNAL STANDARD	VERIFIED	11:30
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
EXTERNAL STANDARD	0.020	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.020	11:34
BLANK TEST	0.000	11:35

Average = 0.0203
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

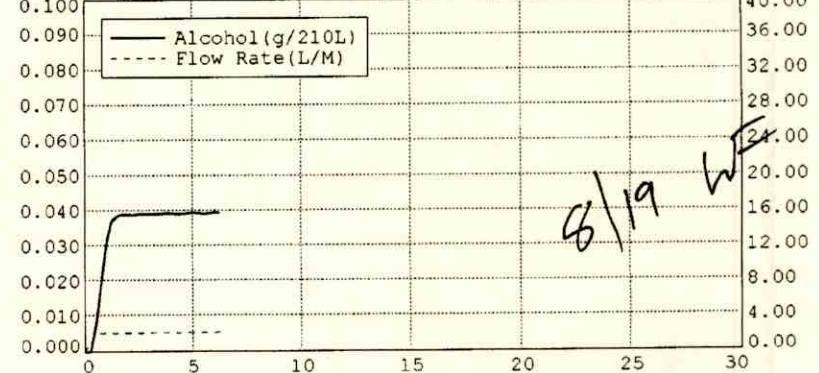
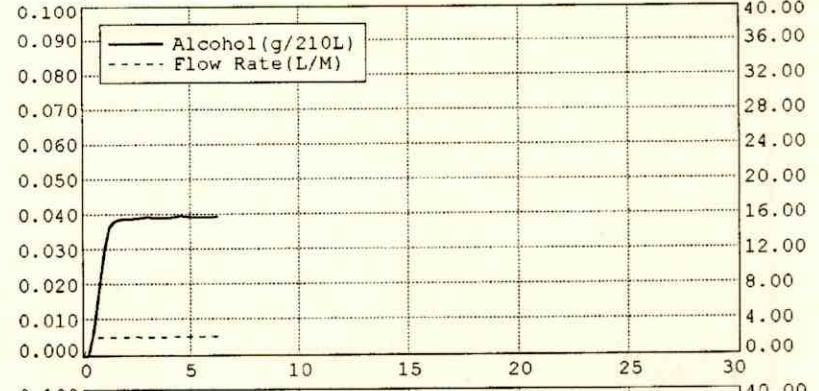
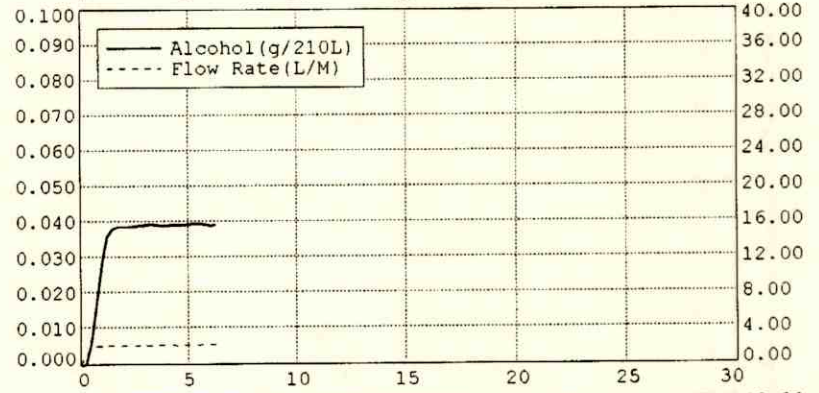
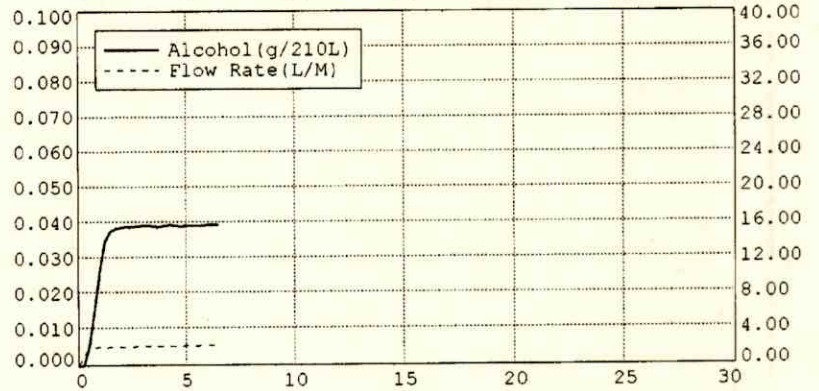
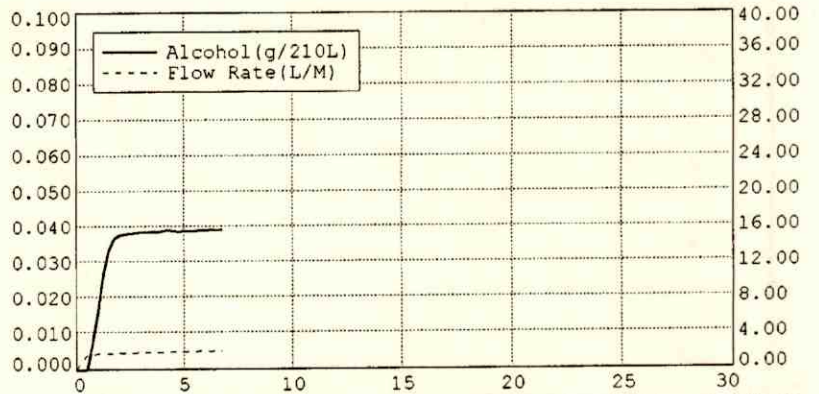
Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 07/17/2012
 Time: 11:36:11

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.99: 0.040
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:37
INTERNAL STANDARD	VERIFIED	11:37
EXTERNAL STANDARD	0.039	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.040	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.040	11:40
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.040	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.040	11:42
BLANK TEST	0.000	11:43

Average = 0.0400
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

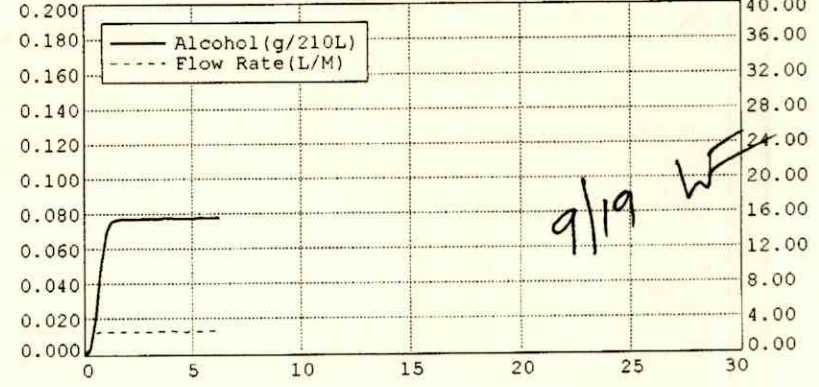
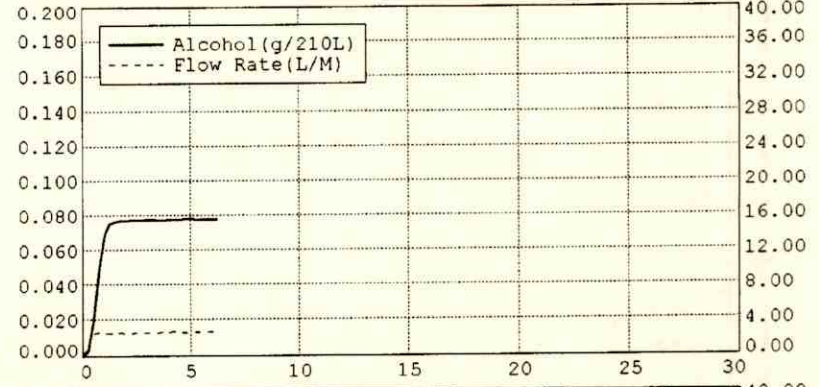
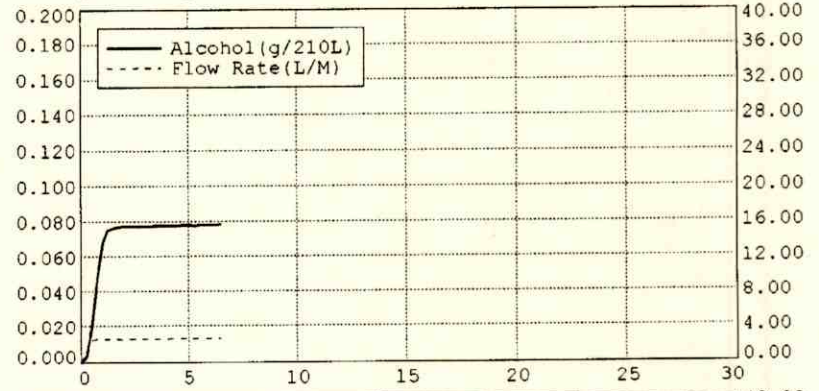
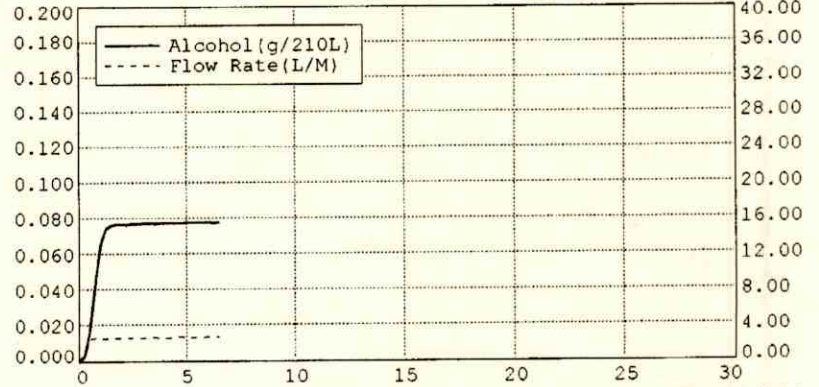
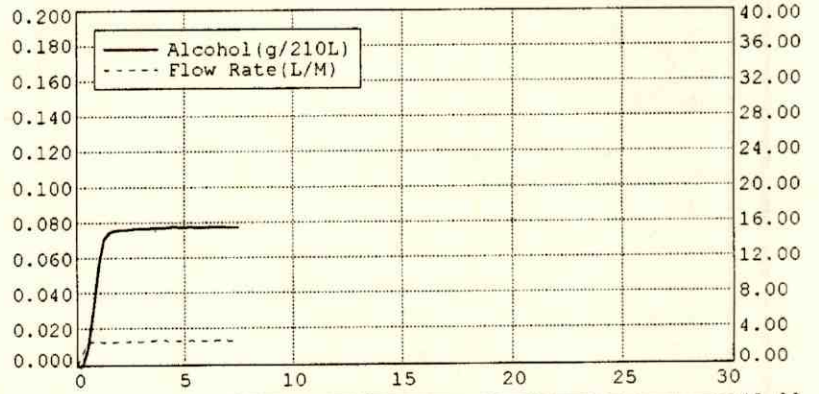
Date: 07/17/2012
 Time: 11:44:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.98: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	11:45
INTERNAL STANDARD	VERIFIED	11:45
EXTERNAL STANDARD	0.078	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.078	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.078	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.078	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.078	11:50
BLANK TEST	0.000	11:51

Average = 0.0787
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

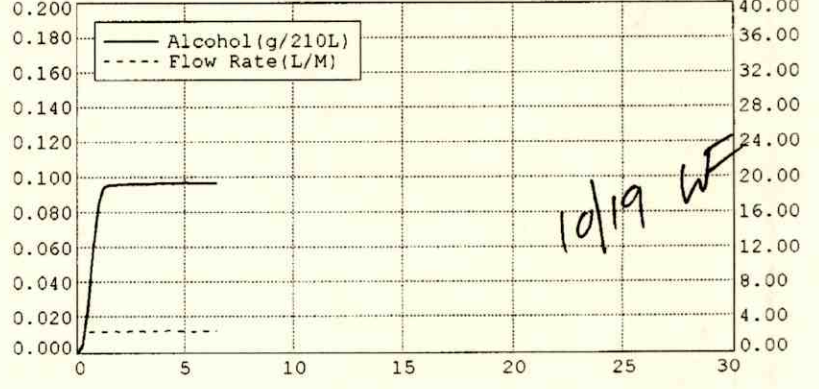
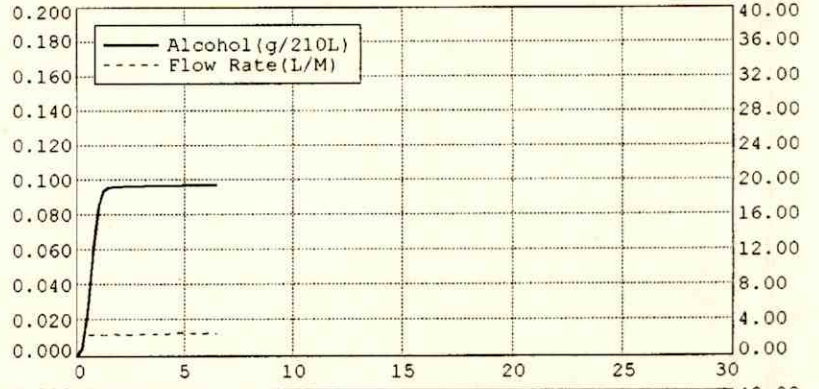
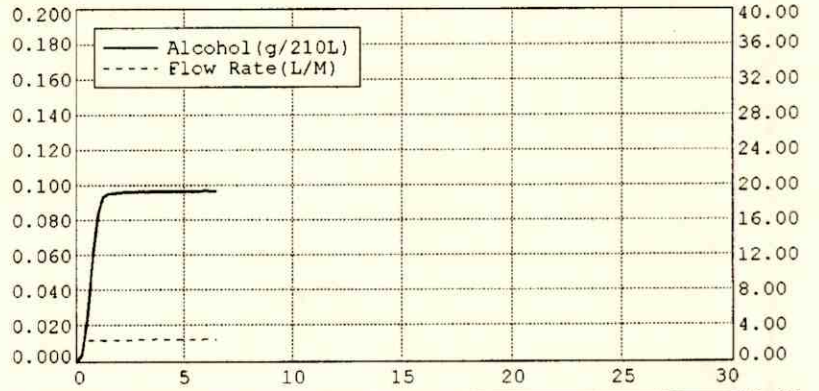
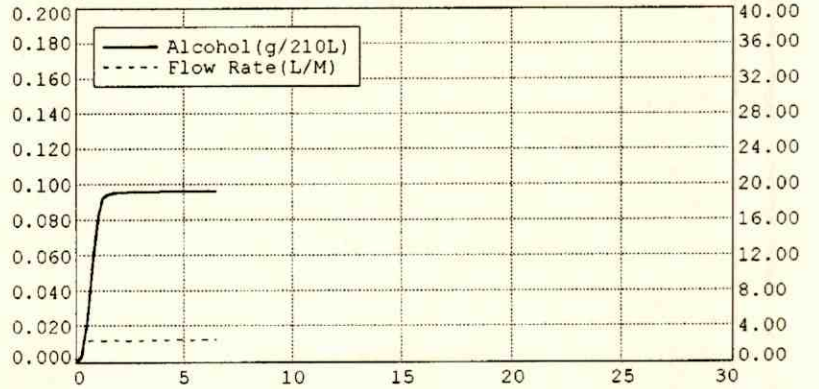
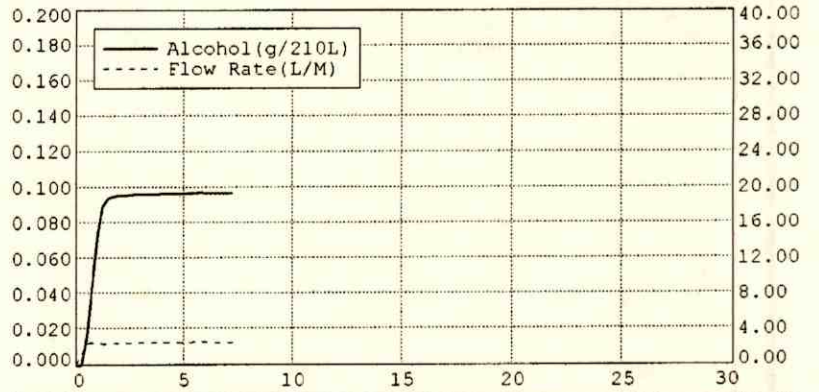
Date: 07/17/2012
 Time: 11:52:10

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.98: 0.100
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:53
INTERNAL STANDARD	VERIFIED	11:53
EXTERNAL STANDARD	0.097	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.097	11:55
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.097	11:56
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.097	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.097	11:58
BLANK TEST	0.000	11:59

Average = 0.0974
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

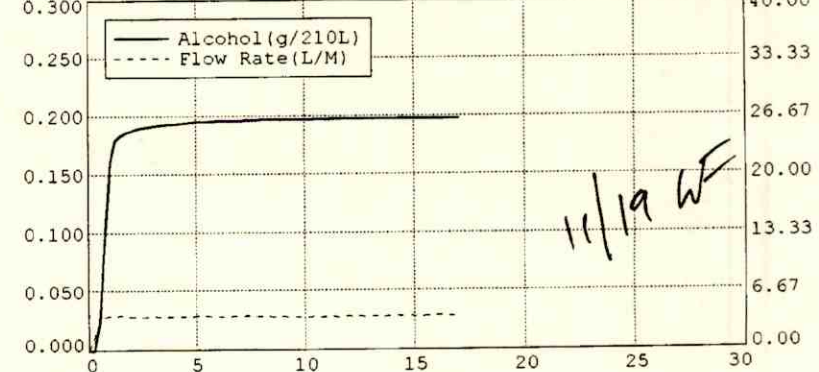
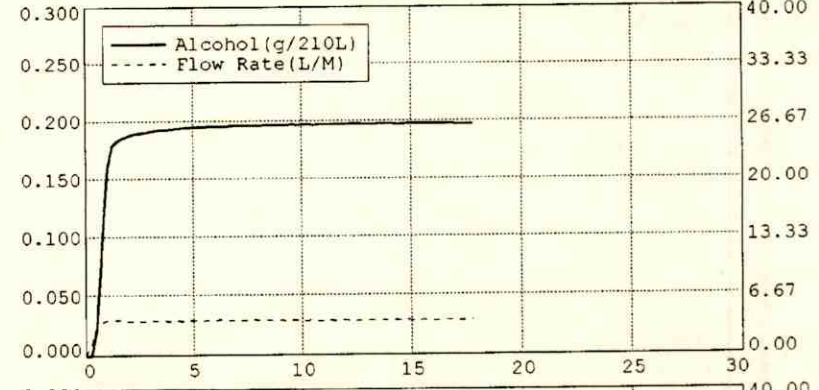
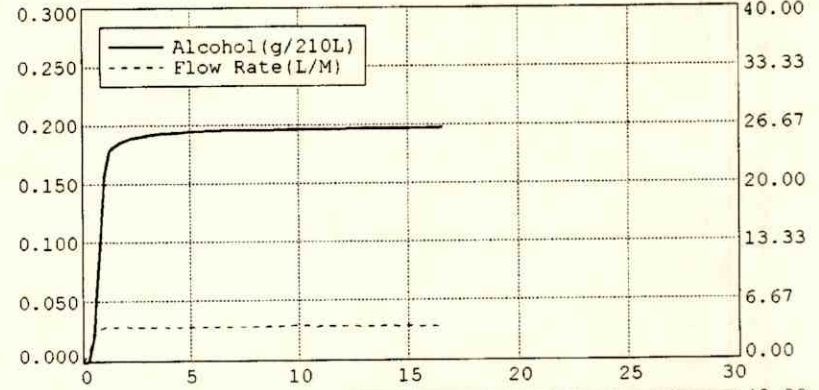
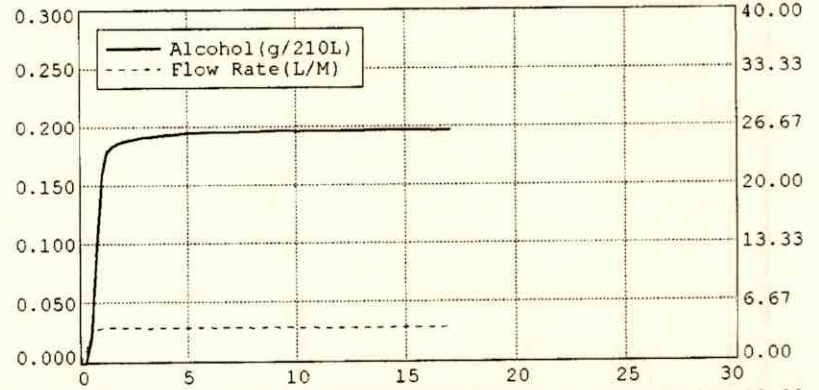
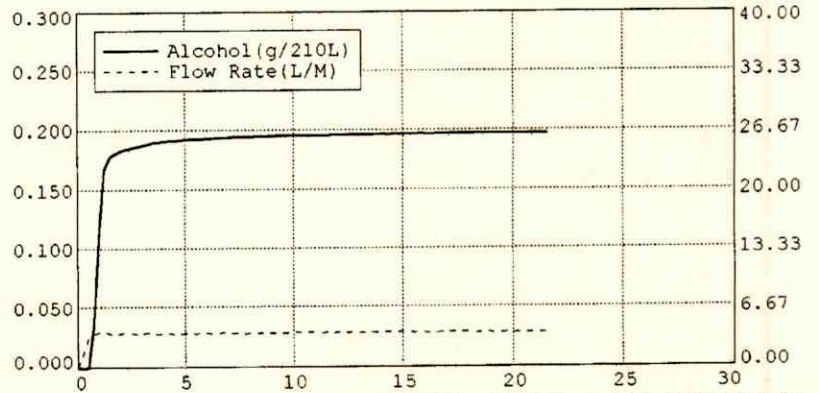
Date: 07/17/2012
 Time: 12:00:18

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:02
INTERNAL STANDARD	VERIFIED	12:02
EXTERNAL STANDARD	0.197	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.197	12:04
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.197	12:05
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.197	12:06
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.197	12:08
BLANK TEST	0.000	12:08

Average = 0.1977
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

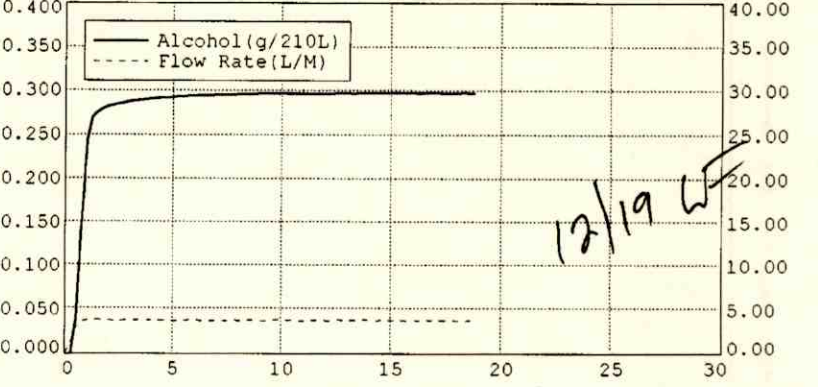
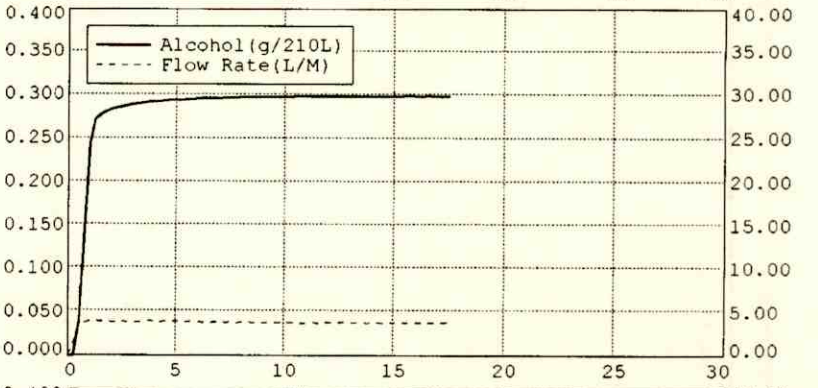
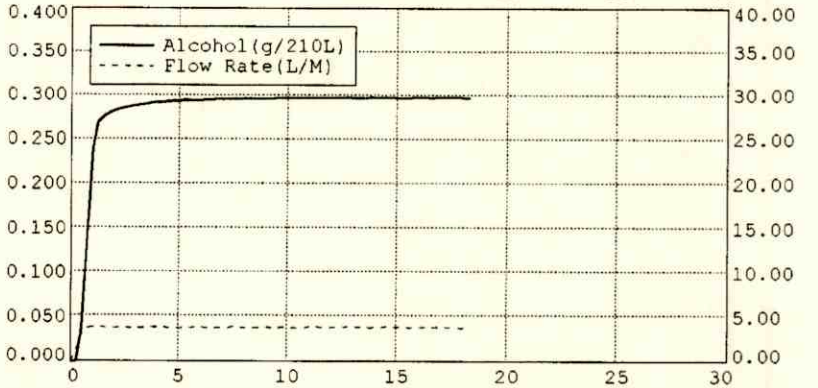
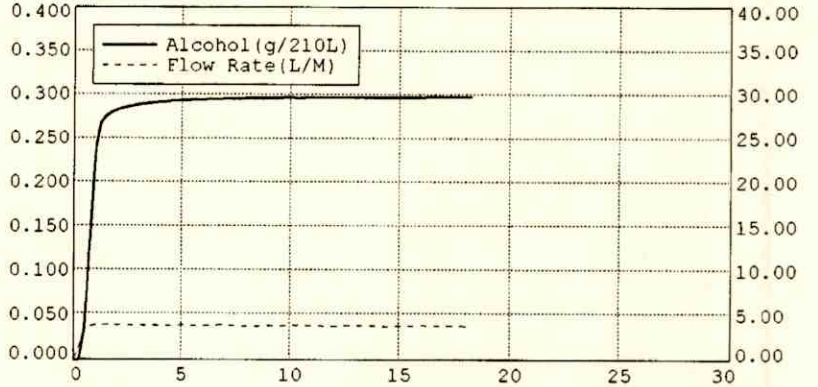
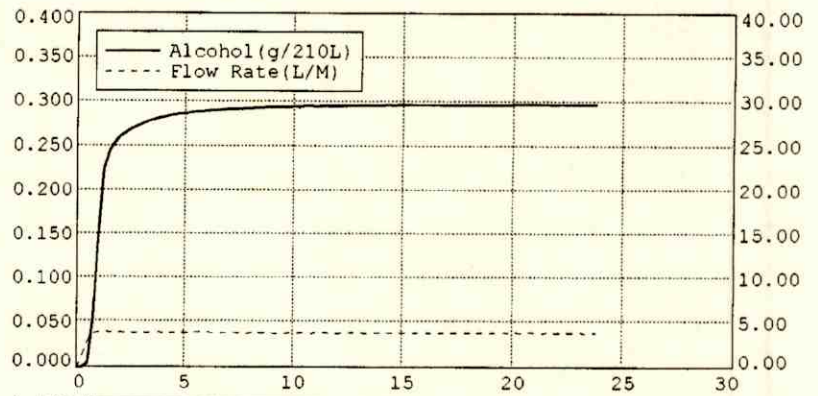
Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 07/17/2012
 Time: 12:15:52

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

BLANK TEST	0.000	12:16
INTERNAL STANDARD	VERIFIED	12:17
EXTERNAL STANDARD	0.297	12:17
BLANK TEST	0.000	12:18
EXTERNAL STANDARD	0.297	12:18
BLANK TEST	0.000	12:19
EXTERNAL STANDARD	0.297	12:20
BLANK TEST	0.000	12:21
EXTERNAL STANDARD	0.297	12:21
BLANK TEST	0.000	12:22
EXTERNAL STANDARD	0.297	12:23
BLANK TEST	0.000	12:24

Average = 0.2976
 Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100387

Date: 07/17/2012
Time: 14:54:05

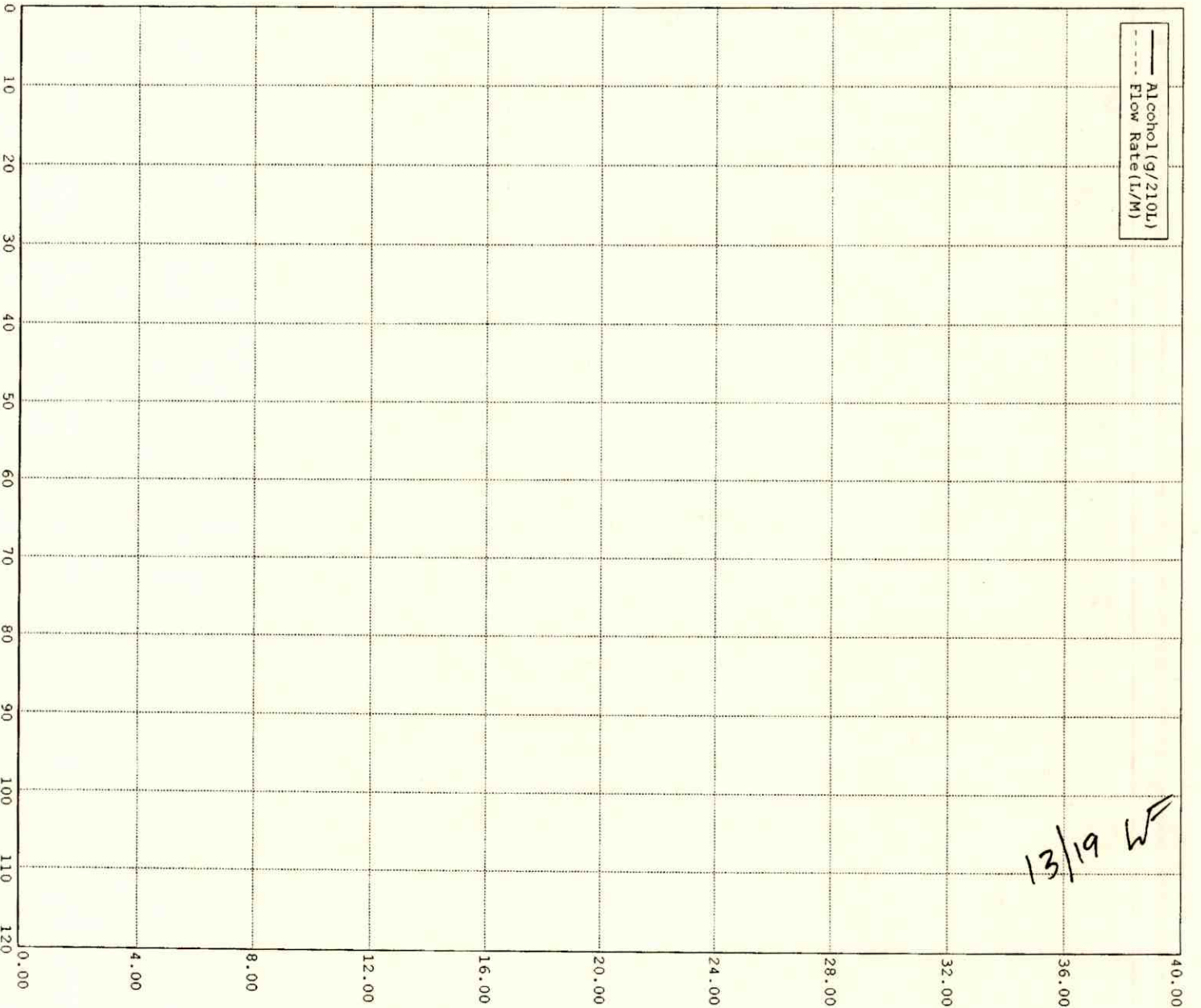
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	14:56
BLANK TEST	0.000	14:56
INTERNAL STANDARD	VERIFIED	14:56
EXTERNAL STANDARD	0.077	14:56
BLANK TEST	0.000	14:57
SUBJECT SAMPLE	INCOMPLETE	14:59



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100387

Date: 07/17/2012
Time: 15:05:07

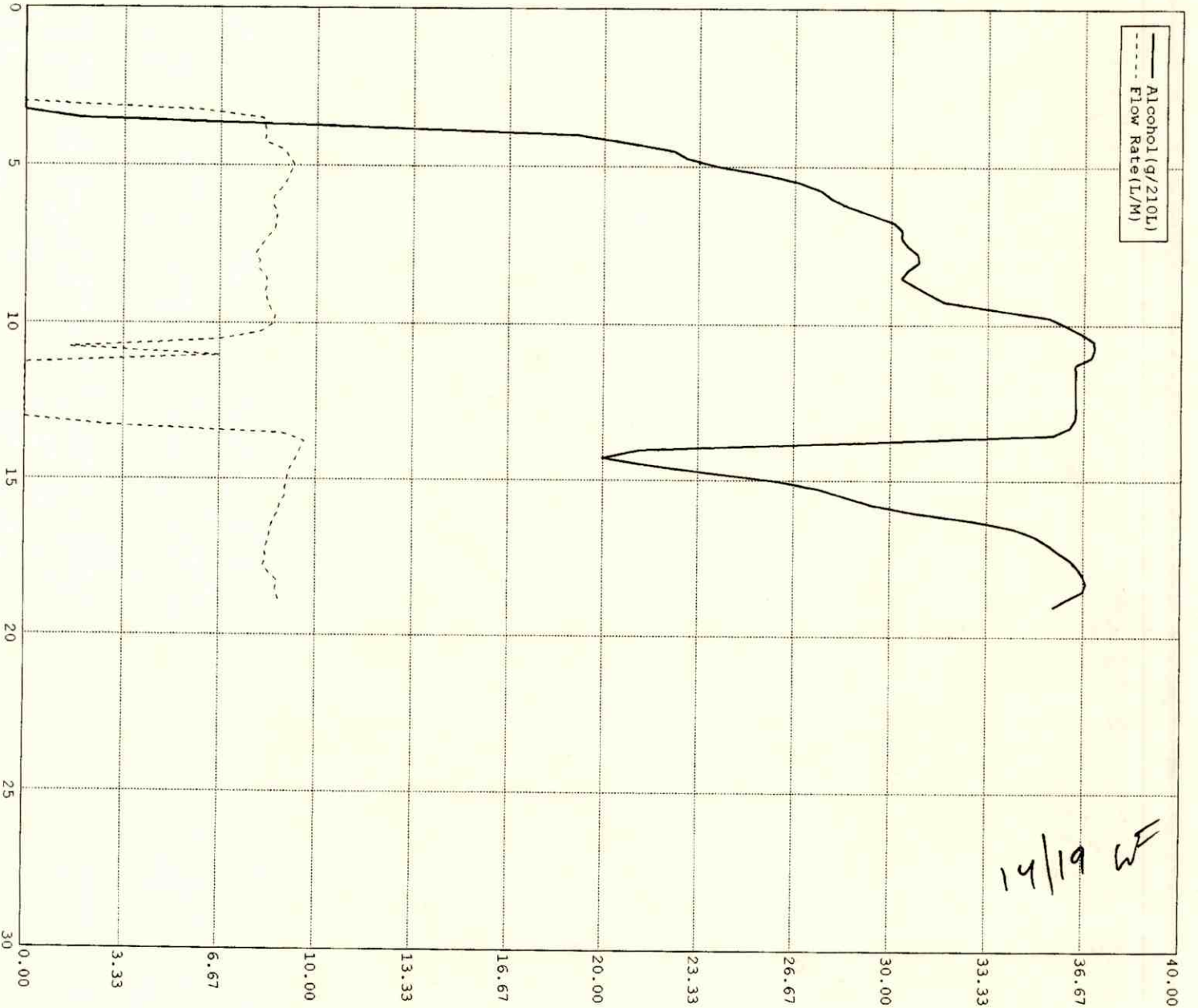
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.92: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:08
BLANK TEST	0.000	15:08
INTERNAL STANDARD	VERIFIED	15:08
EXTERNAL STANDARD	0.078	15:08
BLANK TEST	0.000	15:09
SUBJECT SAMPLE	INVALID	15:09



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 07/18/2012
 Time: 14:41:08

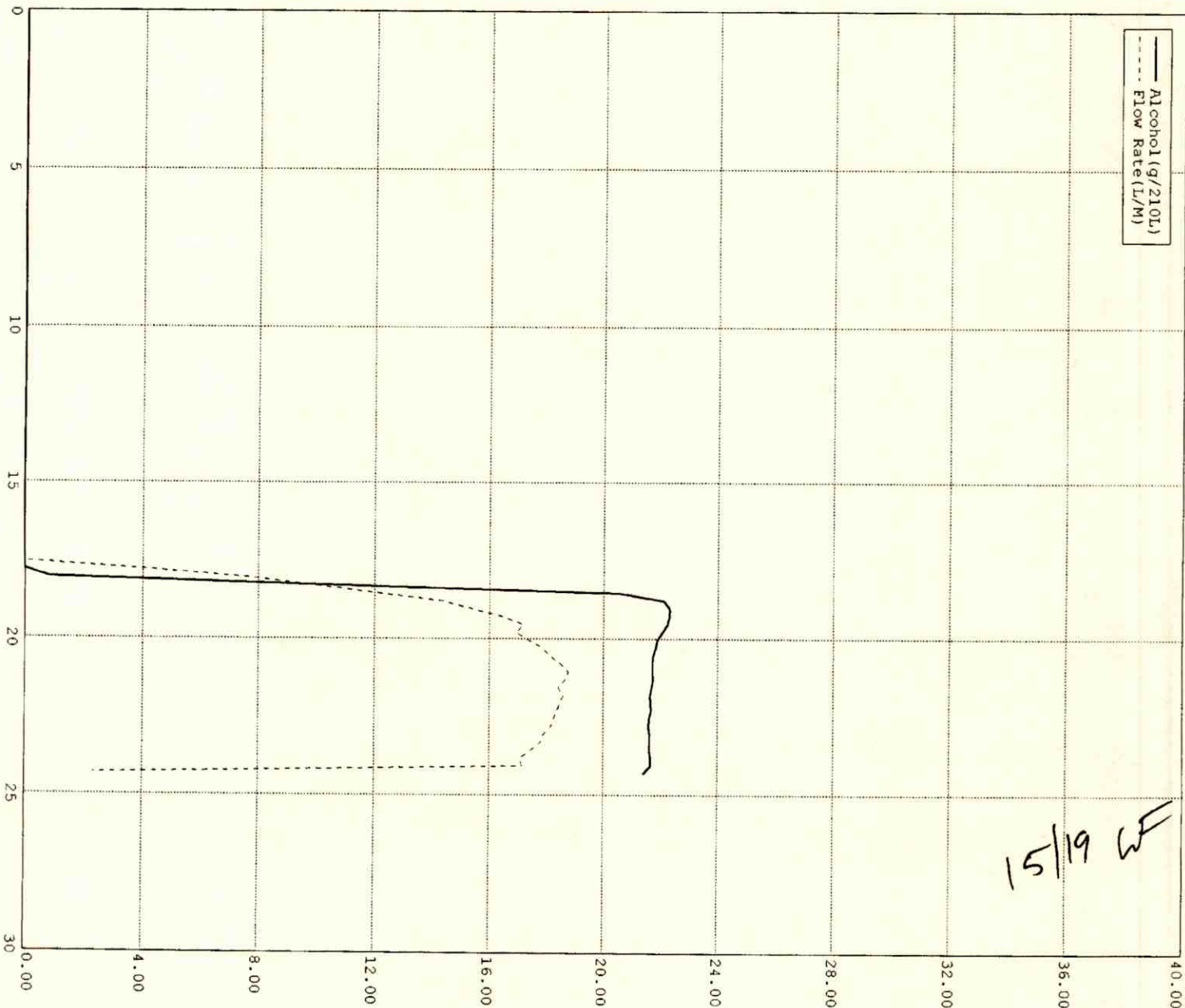
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERERENCE ETOH AND ACETONE
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:53
BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
Xg = 0.093 (0.09%)		
EXTERNAL STANDARD	0.077	14:53
X[1] = 0.0779 (-0.0007) (0.0005)		
BLANK TEST	0.000	14:54
SUBJECT SAMPLE	INTERERENCE	14:54
X[1] = 0.1081 (-0.0146) (0.0006)		



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 07/18/2012
Time: 14:59:09

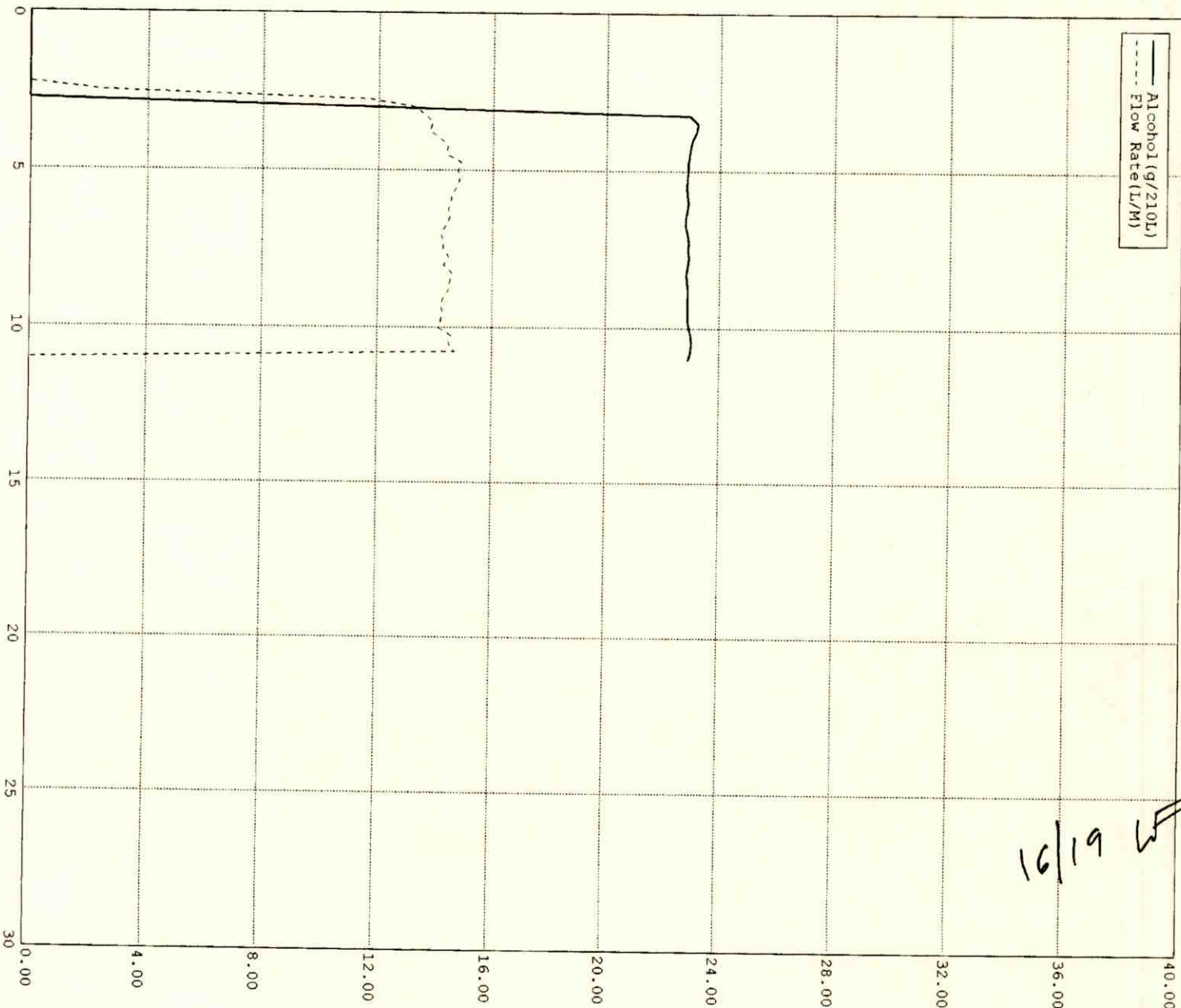
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.80: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:04
BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:04
Xq = 0.094 (0.37%)		
EXTERNAL STANDARD	0.078	15:04
X[1] = 0.0780 (-0.0002) (0.0014)		
BLANK TEST	0.000	15:05
SUBJECT SAMPLE	INTERFERENCE	15:05
X[1] = 0.1147 (-0.0250) (0.0008)		



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 07/18/2012
 Time: 15:09:07

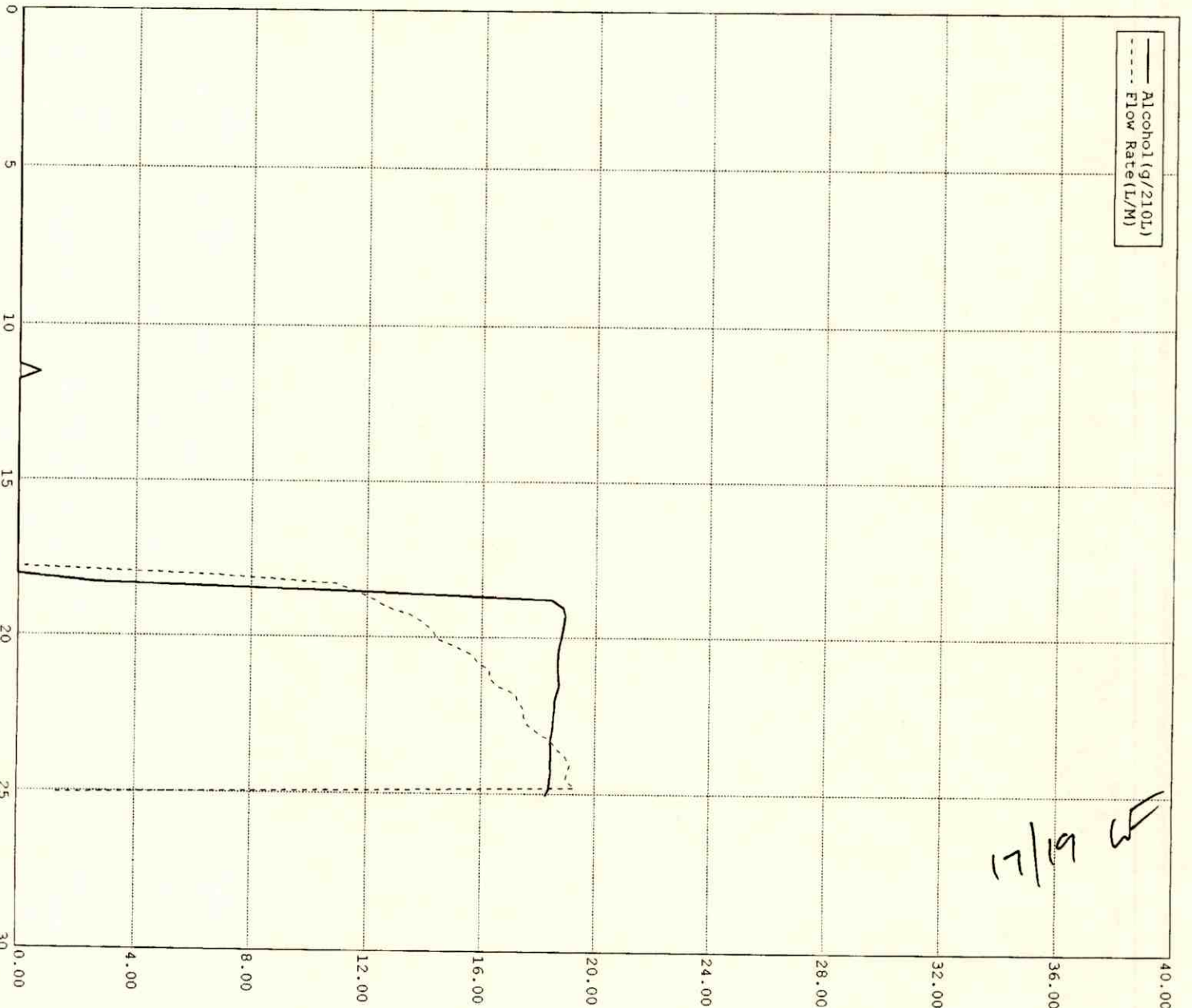
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.80: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:15
BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
Xq = 0.094 (0.66%)		
EXTERNAL STANDARD	0.078	15:16
X[1] = 0.0785 (-0.0002) (0.0011)		
BLANK TEST	0.000	15:17
SUBJECT SAMPLE (Vol=1.85L)	0.091	15:17
X[1] = 0.0917 (0.0004) (0.0004)		
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.077	15:18
X[1] = 0.0779 (-0.0007) (0.0011)		
BLANK TEST	0.000	15:19



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 07/17/2012
Time: 15:16:15

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

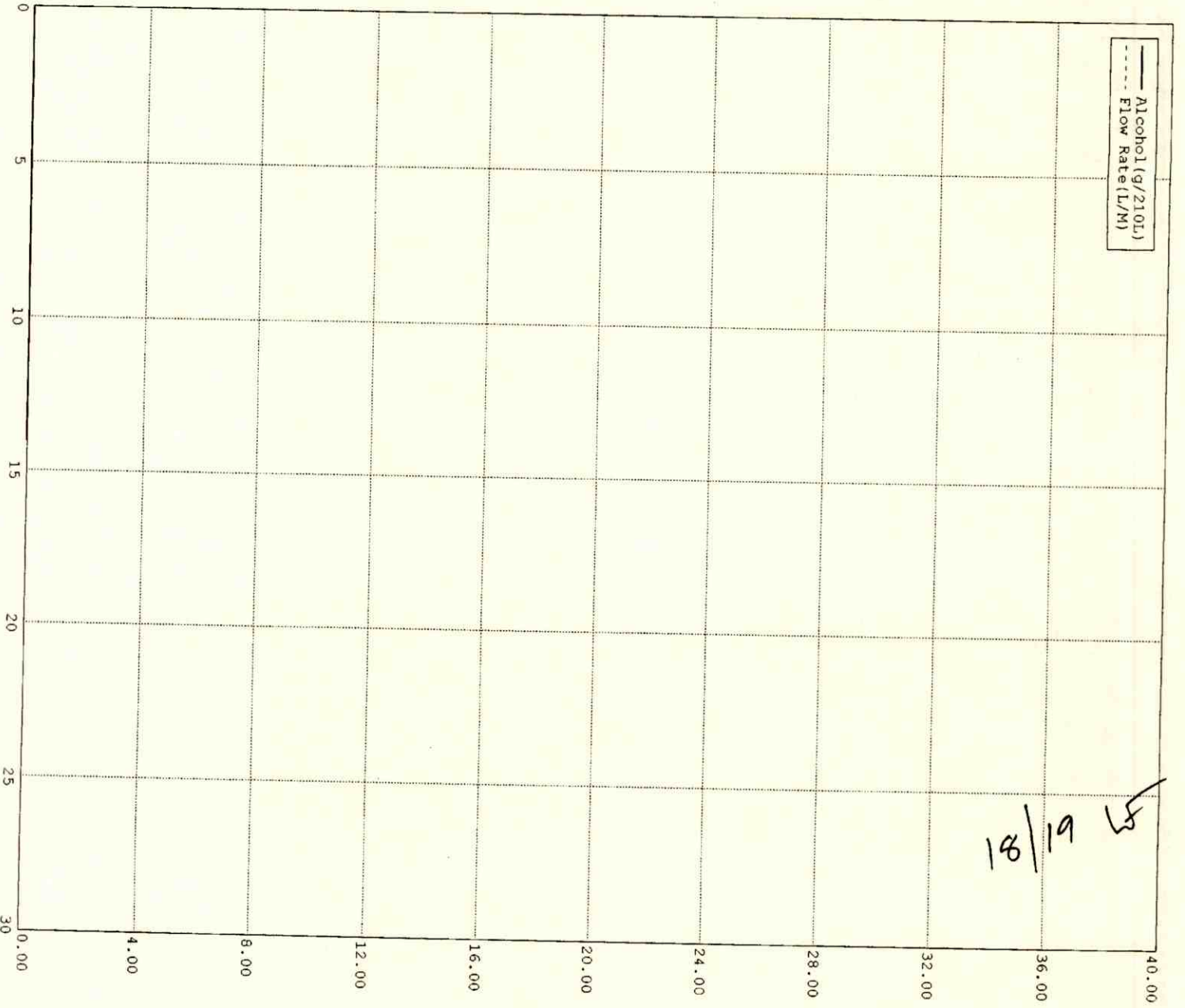
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.91: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:18
BLANK TEST	0.000	15:18
INTERNAL STANDARD	VERIFIED	15:18
EXTERNAL STANDARD	0.078	15:18
BLANK TEST	0.000	15:19

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 07/18/2012
Time: 15:59:26

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 29.79: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	16:00
INTERNAL STANDARD	0.000	16:00
EXTERNAL STANDARD	0.078	16:00
SUBJECT SAMPLE	0.000	16:01
INTERNAL STANDARD	0.000	16:02
EXTERNAL STANDARD	0.078	16:03
INTERNAL STANDARD	0.000	16:04

