

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMCEF 2020 R0
Status: Active

Instrument S/N 100414 Analyst Charlie Glaister Start Date 11/4/21

Diagnostic Test (attached)

Internal Standard value $\leq 3.00\%$

Voltage Checks

Adjust voltages, if needed

i. Lamp (2.6V Maximum)

ii. Bias

iii. Cooler (2.0V Maximum)

iv. Chopper Frequency

v. Detector Voltage (-0.100V to 0.100V)

Set RFI

Adjust barometer reading to match NIST traceable barometer

Adjust volume setting, if needed (1.5L +/- 0.1L)

Print Technician Screen (attached)

Print Calibration Factors (attached)

Volume Test - Minimum 1.6 L (1.3L to 1.7L)

Linearity Test (attached)

Levels Used

- i. 0.020g/210L Mnf Airgas Lot AG100401 Exp 1/4/23
- ii. 0.040g/210L Mnf Airgas Lot AG111710 Exp 4/27/23
- iii. 0.080g/210L Mnf Airgas Lot AG-018102 Exp 6/29/22
- iv. 0.100g/210L Mnf Airgas Lot AG108404 Exp 3/25/23
- v. 0.200g/210L Mnf Guth Lot 20510 Exp 12/3/22
Simulator S/N DR4161 Date Calibrated 6/16/21
- vi. 0.300g/210L Mnf Guth Lot 21030 Exp 2/2/23
Simulator S/N SD1202 Date Calibrated 6/15/21

Functional Tests (attached)

Incomplete

Invalid

Interference

- i. Acetone - Mnf Lifloc Lot 210P41158 Level 0.100 Exp 4/29/23
Simulator S/N SD1177 Date Calibrated 6/15/21
- ii. Isopropanol - Mnf Lifloc Lot 210P41158 Level 0.100 Exp 4/29/23
Simulator S/N SD1198 Date Calibrated 6/15/21
- iii. Negative Control - Mnf Lifloc Lot 210P41158 Level 0.100 Exp 4/29/23
Simulator S/N SD1088 Date Calibrated 6/15/21

Exceeded Attempts

RFI

Verify stylus is calibrated

Reset Options

Clear Memory

Remove tank prior to shut down

Verification of Calibration

Non-Drinking Subject Test (attached)

Upload

Add Linearity Data to Spreadsheet

End Date 11/4/2021

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 11/04/2021
Time: 09:50:27

VERSIONS

DMT: 3.02
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.74 V PASSED
(1.06 V - 2.48 V)
Cooler Voltage = 1.76 V PASSED
(0.97 V - 2.25 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 522 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.1 in

PUMP INFO

Flow Rate = 4.908 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.002 V <= 0.010 V)
PUMP OFF PASSED
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.087 1.01% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100414

Date: 11/04/2021
Time: 10:04 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 45.3°C

Current Barometer 29.1 in
Volume (Ltr) 1.54

Settings

Lamp: 1.77 V
Bias: 79 V
Cooler: 1.82 V
Chopper: 521 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.006 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 05/18/2011
Time: 14:24:08

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca = 0.1000
CAL = 0.986849 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0046 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0865 0.0500 <= Xq < 0.2000
a21 = 1.125008 1.050 <= a21 < 1.300
a31 = 0.489070 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 11/04/2021
Time: 10:07:05

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

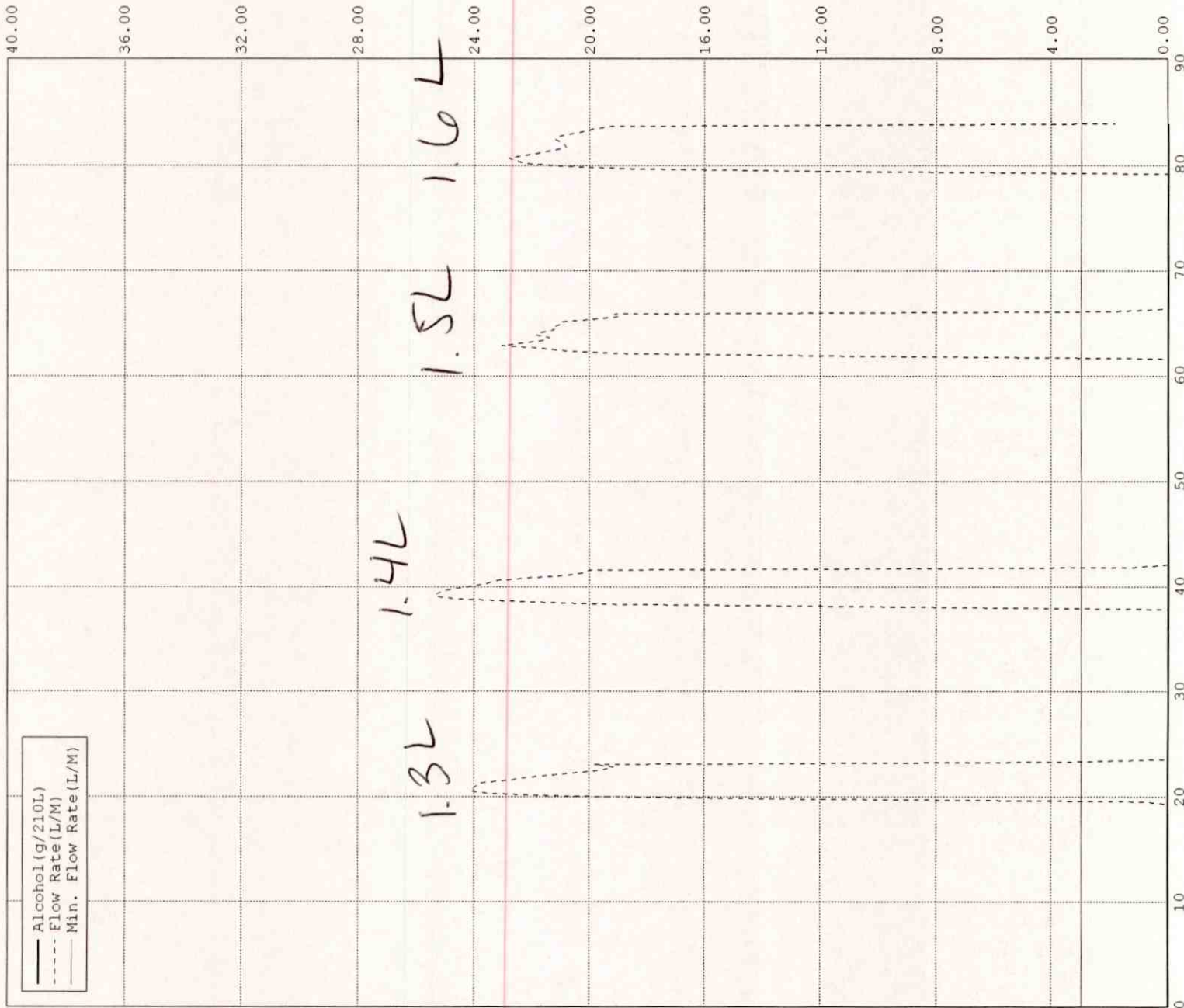
DEPT/AGENCY:
MINIMUM VOLUME TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.08: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	10:08
BLANK TEST	0.000	10:08
INTERNAL STANDARD	VERIFIED	10:08
EXTERNAL STANDARD	0.077	10:08
BLANK TEST	0.000	10:09
SUBJECT SAMPLE (Vol=1.54L)	0.000	10:10
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.078	10:12
BLANK TEST	0.000	10:12

CKG



LINEARITY CHECK

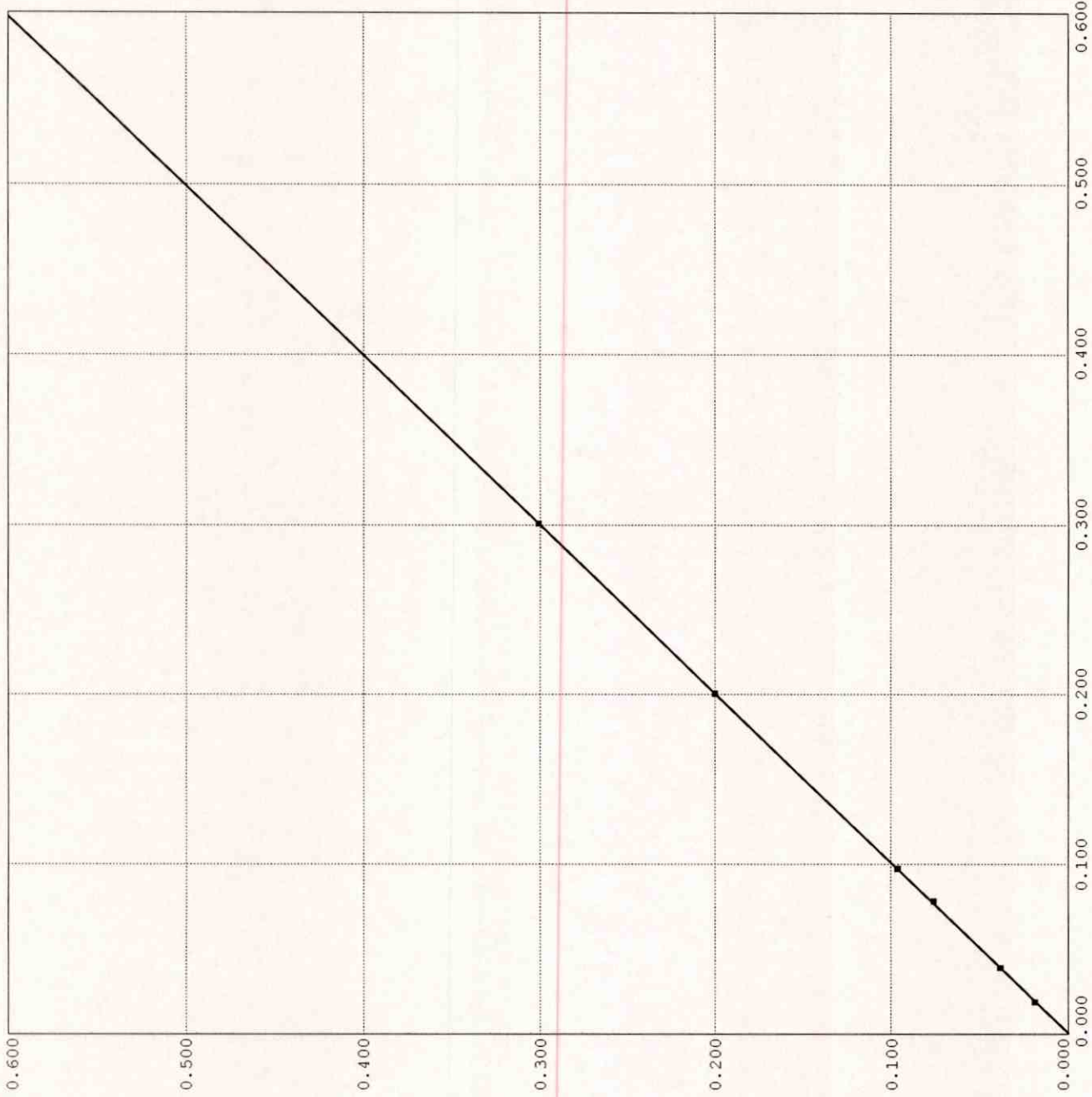
 Alaska Department of Public Safety
 DATAMASTER dmt: 100414

Date: 11/04/2021
 Time: 10:53:03

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0196	0.0005
0.039	0.0392	0.0004
0.078	0.0768	0.0004
0.097	0.0972	0.0004
0.200	0.2008	0.0008
0.300	0.3016	0.0011

SLOPE = 1.005469
 R² = 0.999956



CKG

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

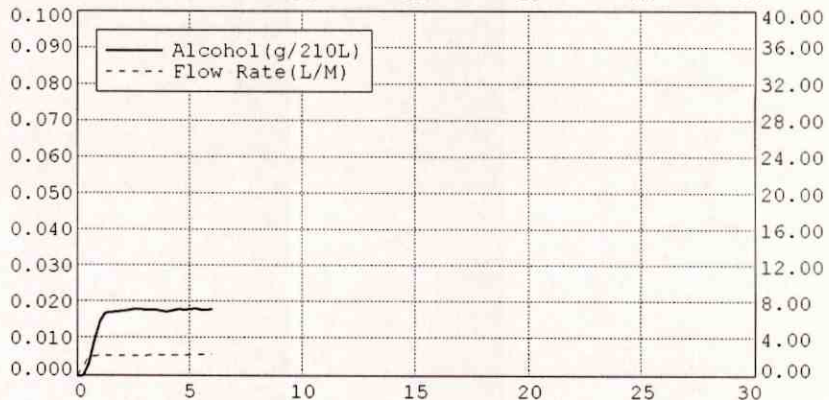
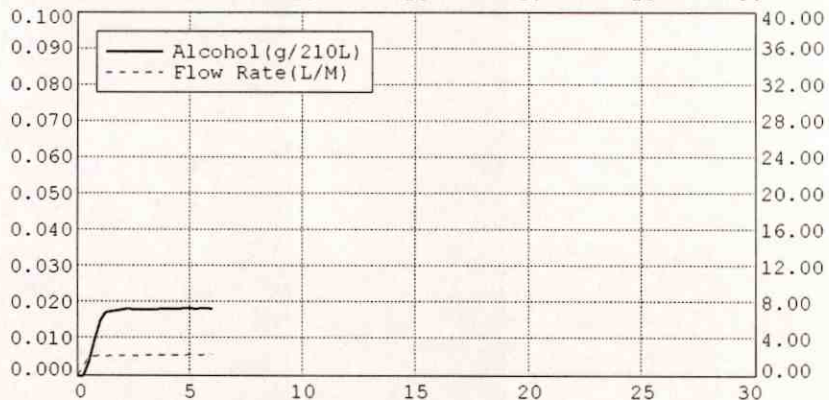
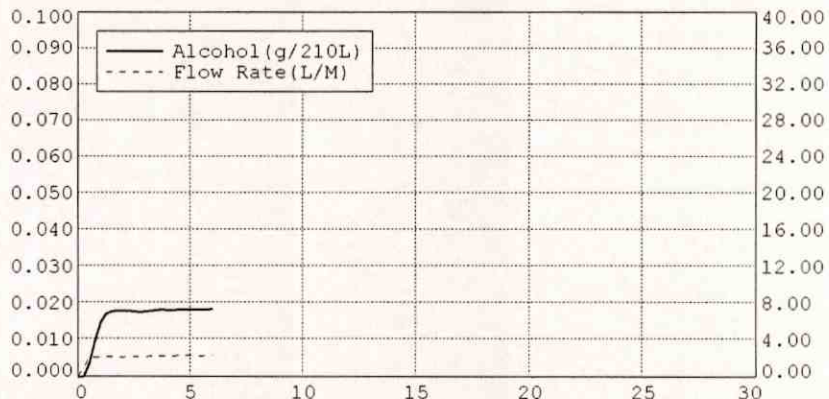
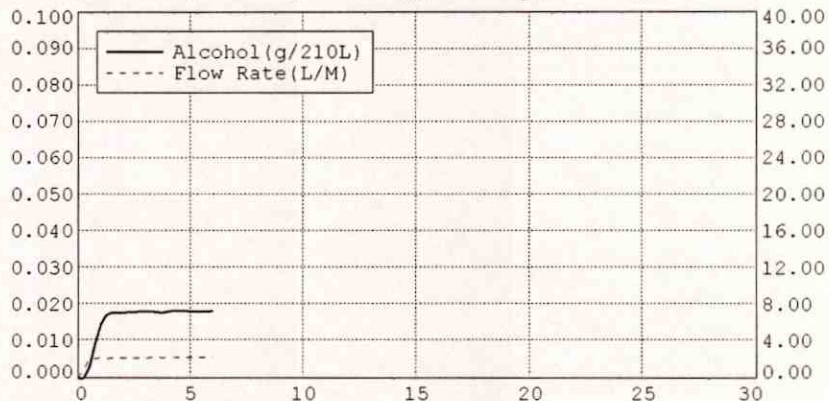
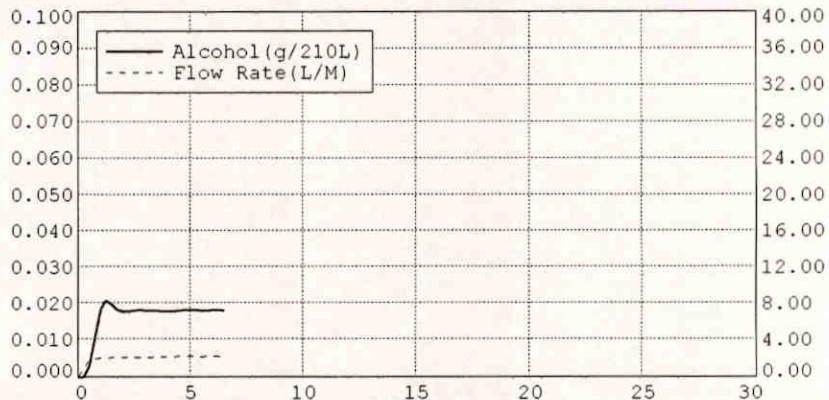
Date: 11/04/2021
 Time: 10:53:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.09: 0.019
 LOT #: AG100401
 EXPIRATION: 01/04/2023
 TANK PRESSURE: 1061 psi

BLANK TEST	0.000	10:54
INTERNAL STANDARD	VERIFIED	10:55
EXTERNAL STANDARD	0.020	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.020	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.019	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.020	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.019	10:59
BLANK TEST	0.000	11:00

Average = 0.0196
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

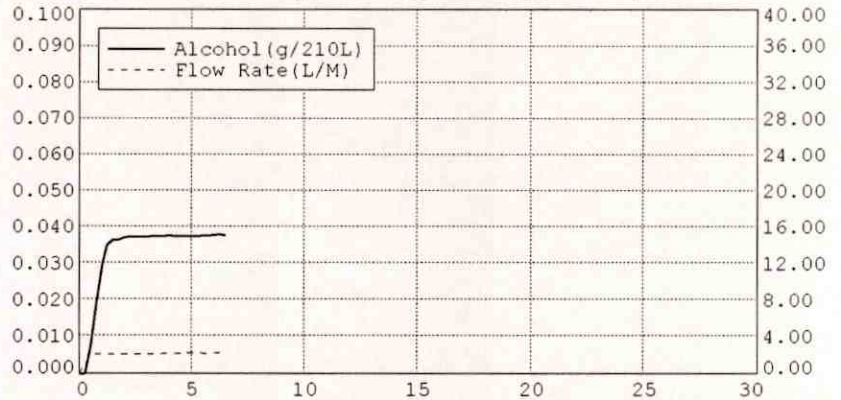
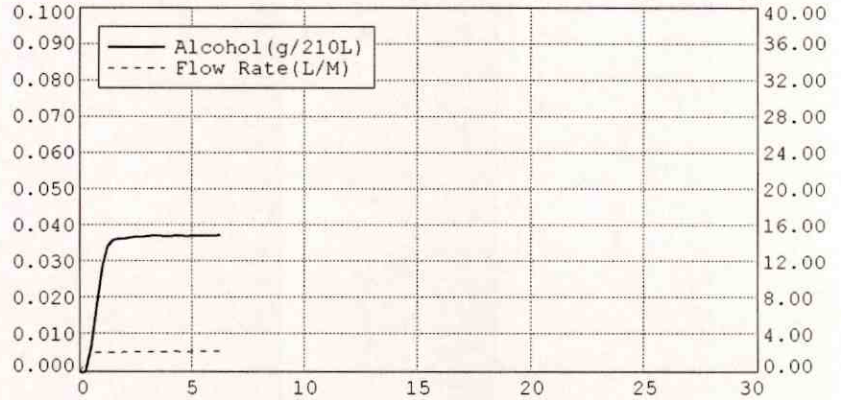
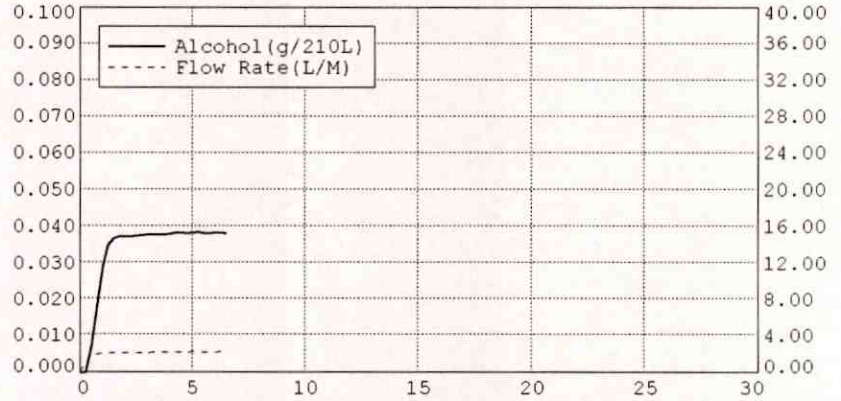
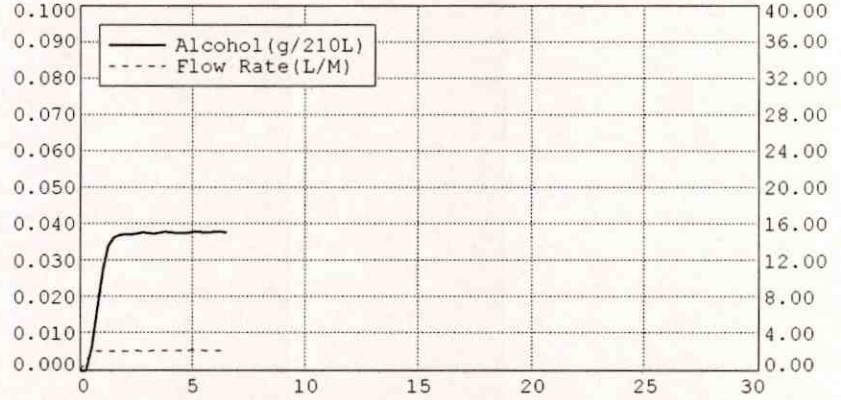
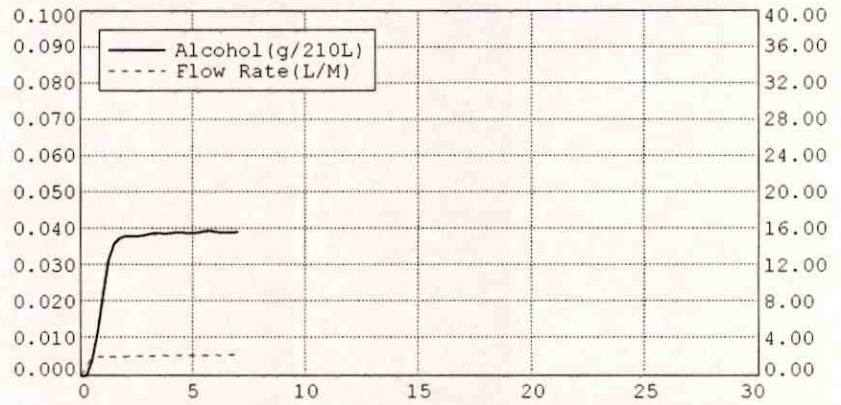
Date: 11/04/2021
 Time: 11:03:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.08: 0.039
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 890 psi

BLANK TEST	0.000	11:04
INTERNAL STANDARD	VERIFIED	11:05
EXTERNAL STANDARD	0.040	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.039	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.039	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.039	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.039	11:09
BLANK TEST	0.000	11:10

Average = 0.0392
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100414

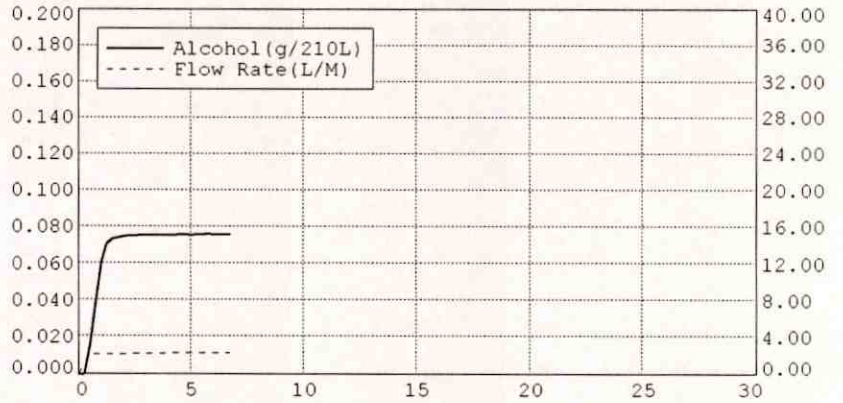
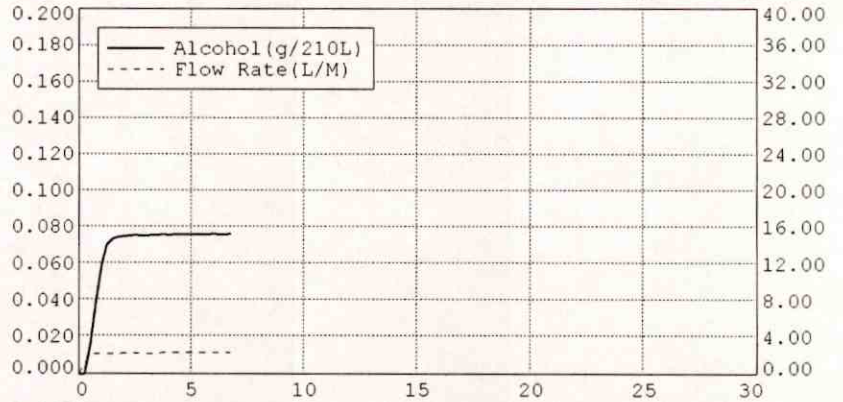
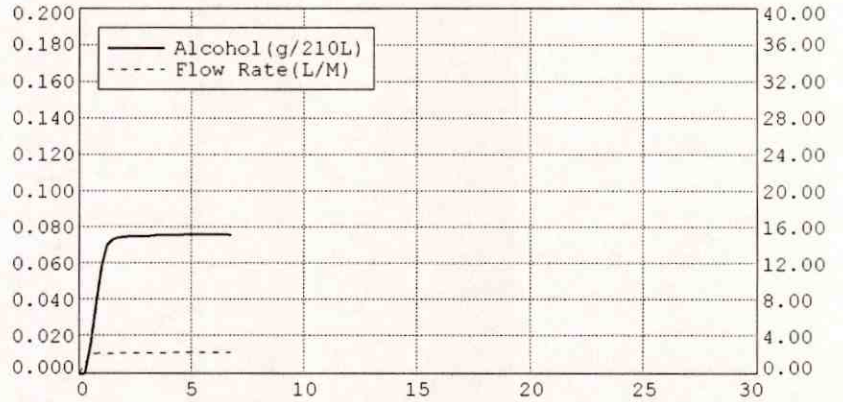
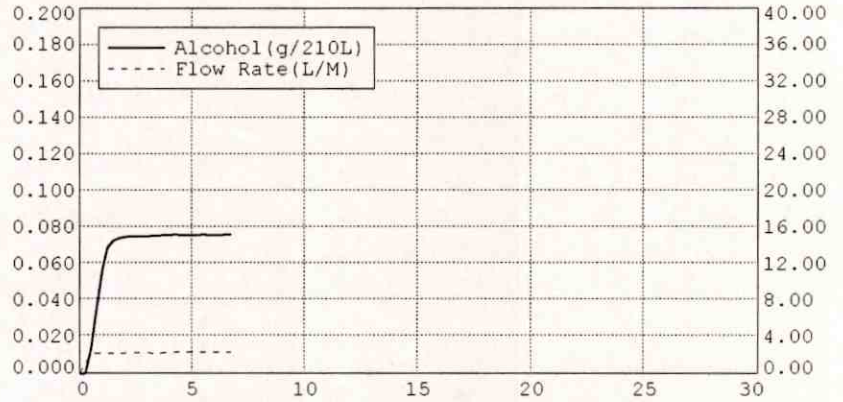
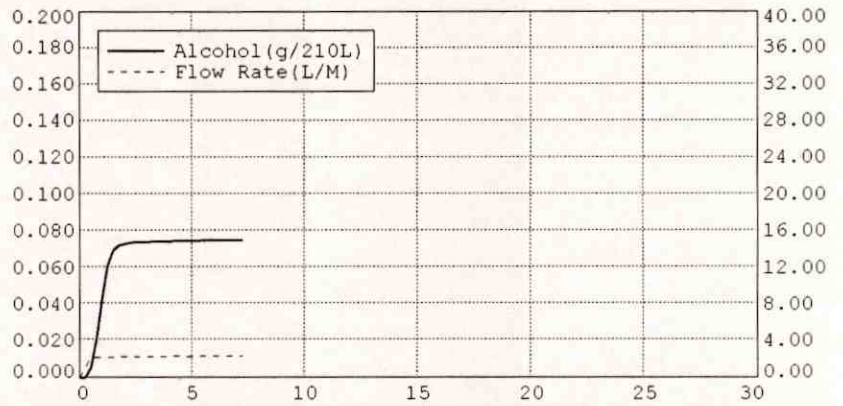
Date: 11/04/2021
Time: 11:12:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.07: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1129 psi

BLANK TEST	0.000	11:13
INTERNAL STANDARD	VERIFIED	11:13
EXTERNAL STANDARD	0.076	11:14
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.077	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.077	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.077	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.077	11:18
BLANK TEST	0.000	11:19

Average = 0.0768
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

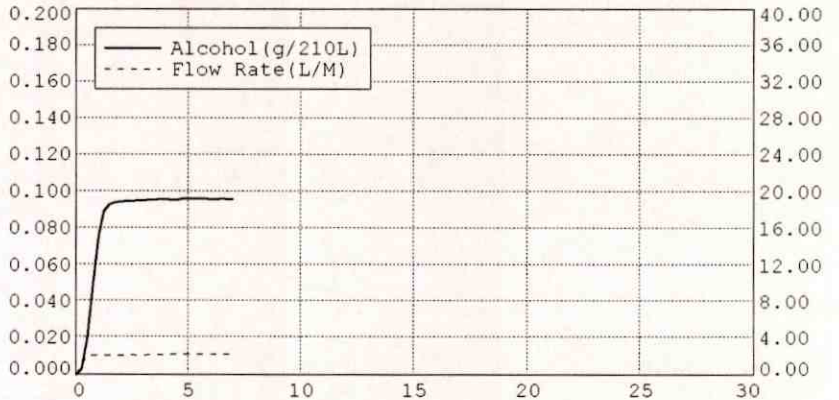
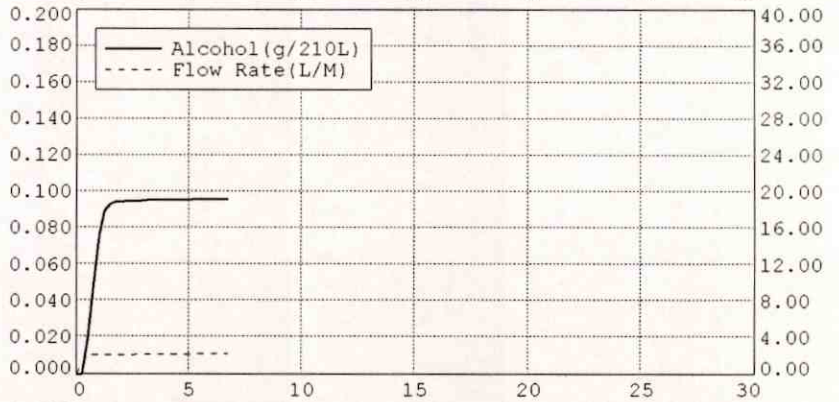
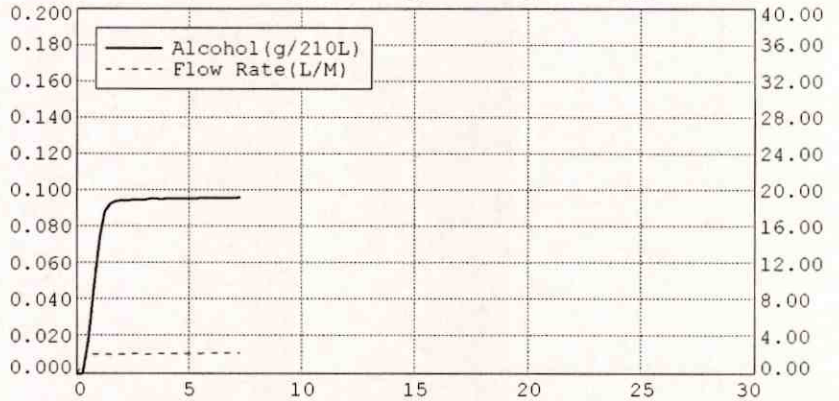
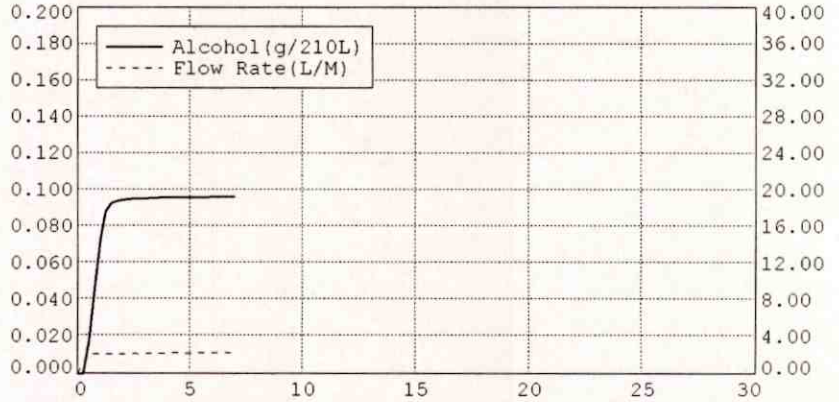
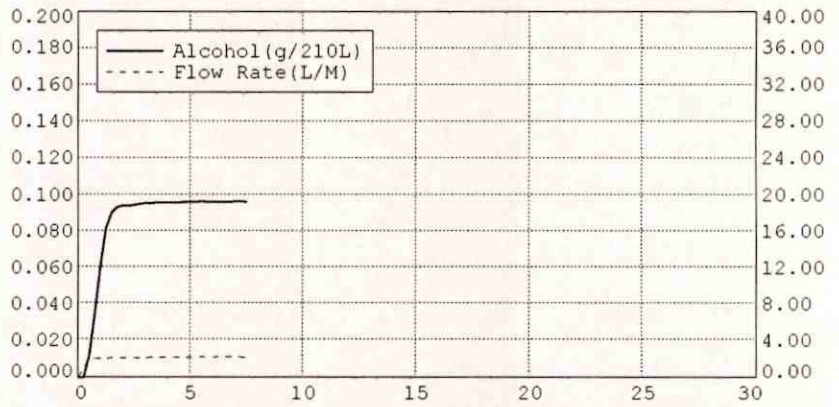
Date: 11/04/2021
 Time: 11:20:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.09: 0.097
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 903 psi

BLANK TEST	0.000	11:21
INTERNAL STANDARD	VERIFIED	11:21
EXTERNAL STANDARD	0.098	11:22
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.097	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.097	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.097	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.097	11:26
BLANK TEST	0.000	11:27

Average = 0.0972
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

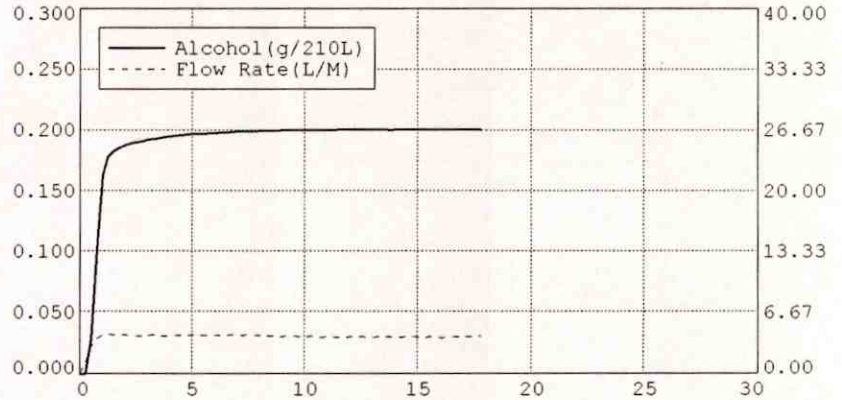
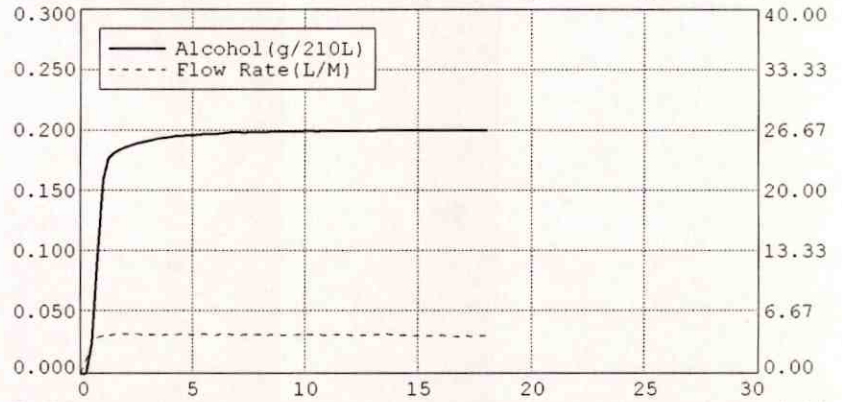
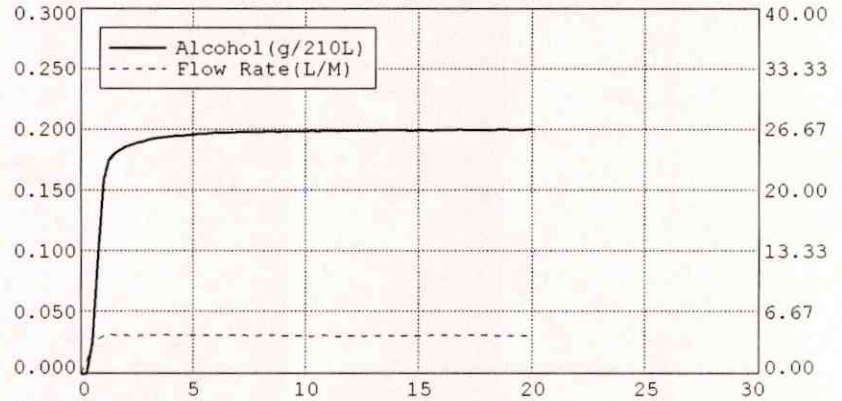
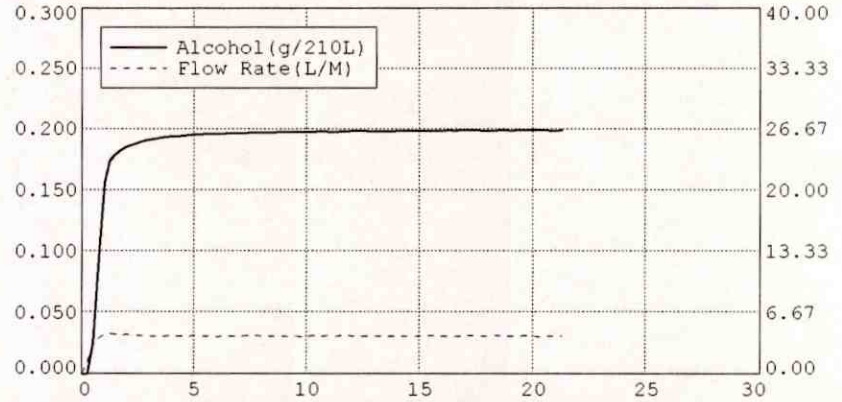
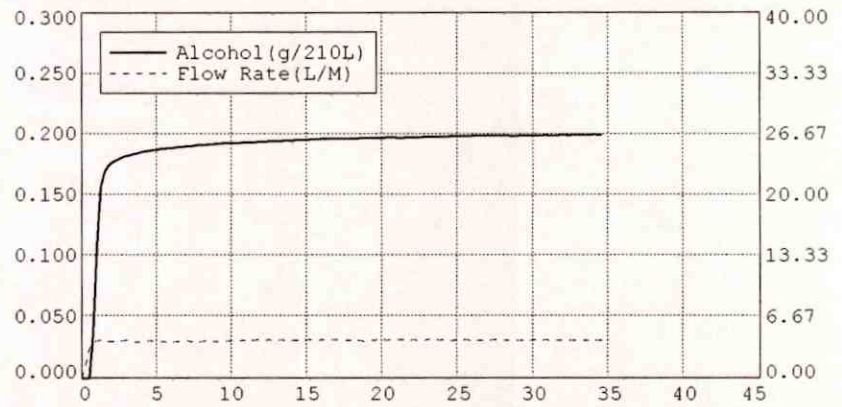
Alaska Department of Public Safety
 DATAMASTER dmt: 100414

Date: 11/04/2021
 Time: 11:30:52

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 20510
 EXPIRATION: 12/03/2022

BLANK TEST	0.000	11:32
INTERNAL STANDARD	VERIFIED	11:32
EXTERNAL STANDARD	0.200	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.200	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.201	11:36
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.201	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.202	11:38
BLANK TEST	0.000	11:39

Average = 0.2008
 Std Dev = 0.0008



LINEARITY CHECK: Control Test 6

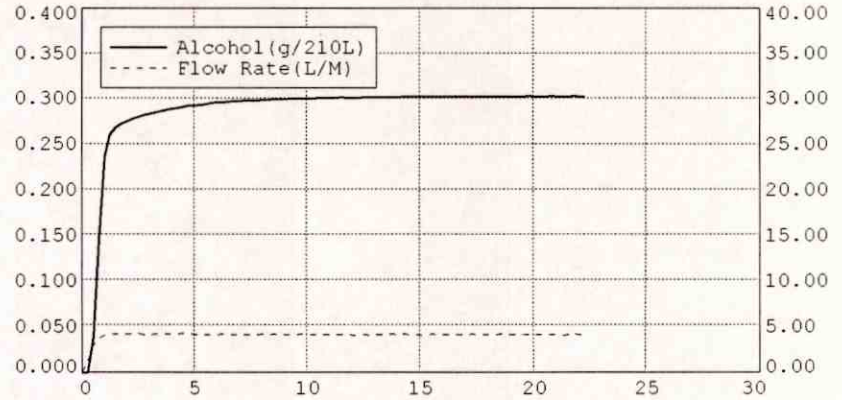
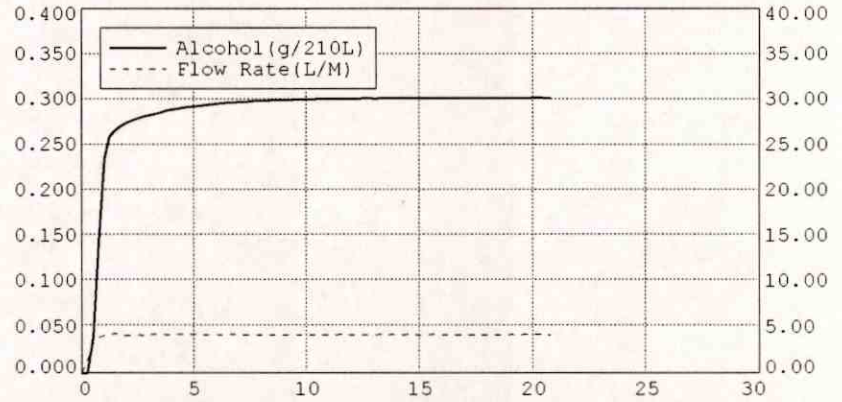
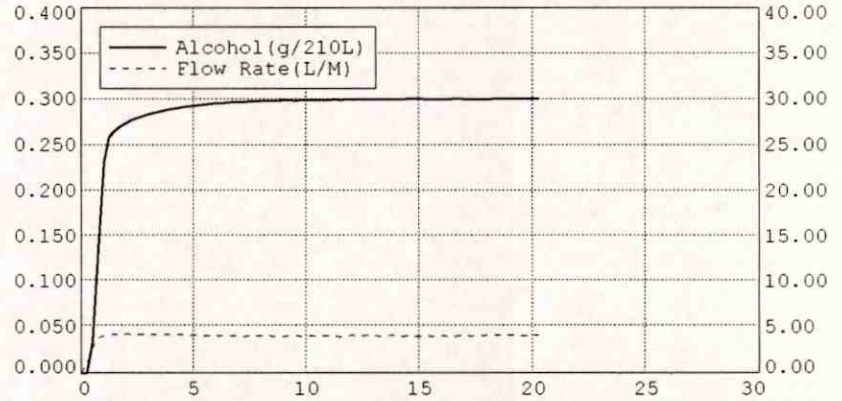
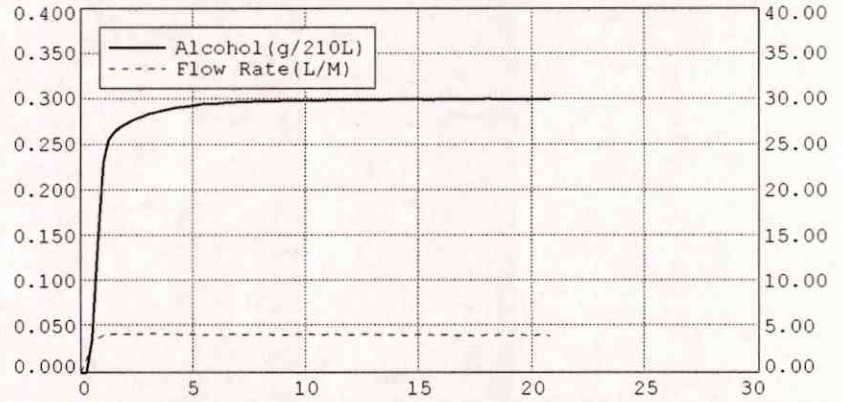
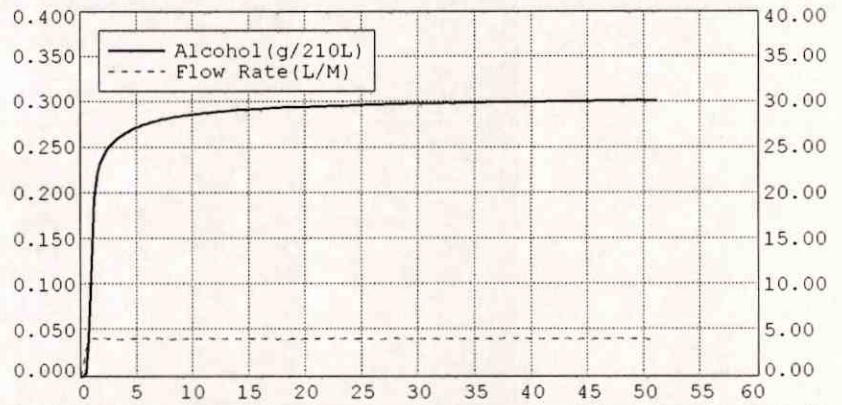
Alaska Department of Public Safety
 DATAMASTER dmt: 100414

Date: 11/04/2021
 Time: 11:41:26

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 21030
 EXPIRATION: 02/02/2023

BLANK TEST	0.000	11:42
INTERNAL STANDARD	VERIFIED	11:42
EXTERNAL STANDARD	0.302	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.300	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.301	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.302	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.303	11:49
BLANK TEST	0.000	11:50

Average = 0.3016
 Std Dev = 0.0011



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 11/04/2021
Time: 11:58:32

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

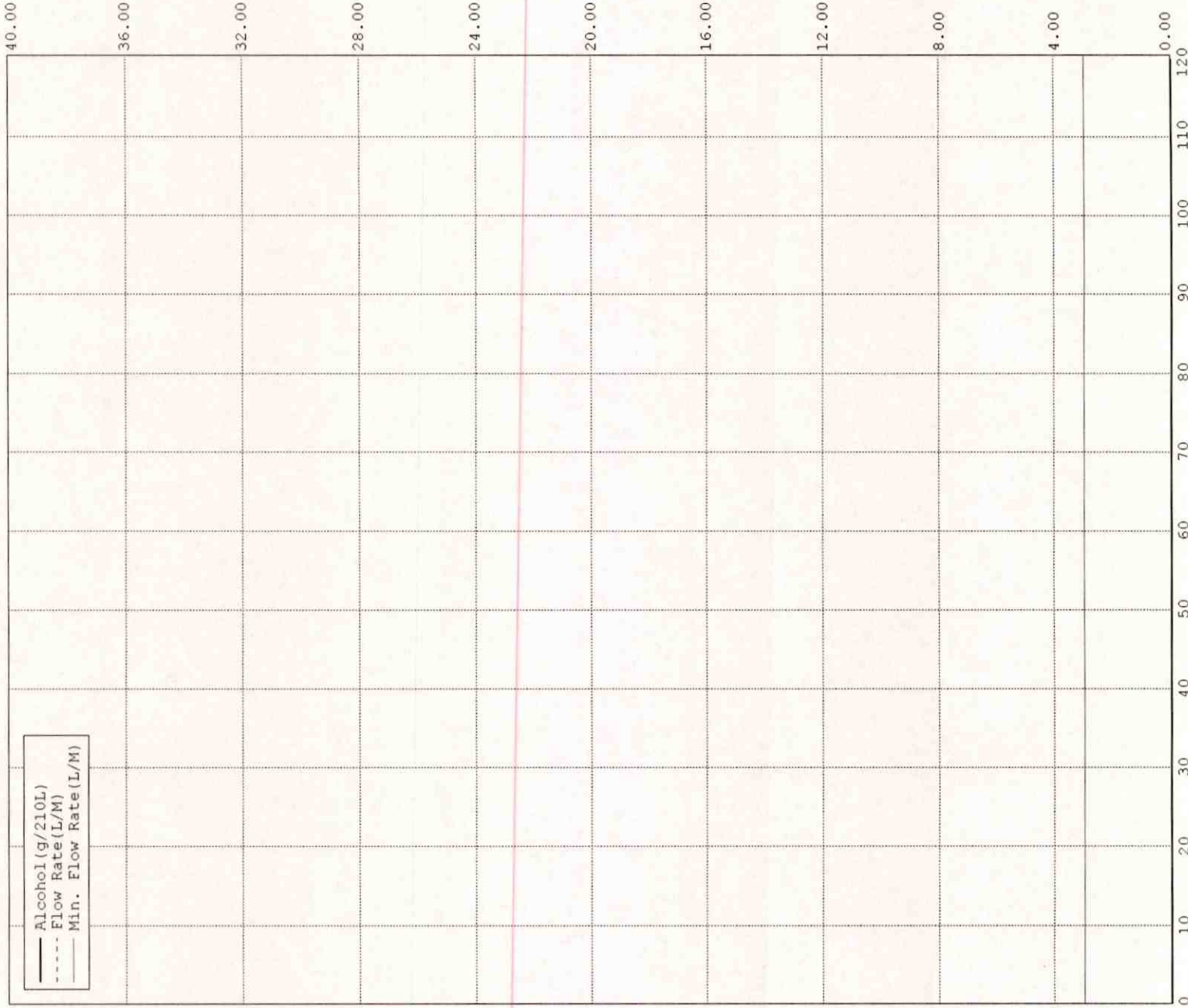
DEPT/AGENCY:
INCOMPLETE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:59
BLANK TEST 0.000 11:59
INTERNAL STANDARD VERIFIED 11:59
EXTERNAL STANDARD 0.077 12:00
BLANK TEST 0.000 12:00
SUBJECT SAMPLE INCOMPLETE 12:03

CKG



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100414

Date: 11/04/2021

Time: 13:25:42

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

CARLIE GLAISTER

OPERATOR'S #: 10436

DEPT/AGENCY:

INVALID

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.09: 0.078

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

BLANK TEST

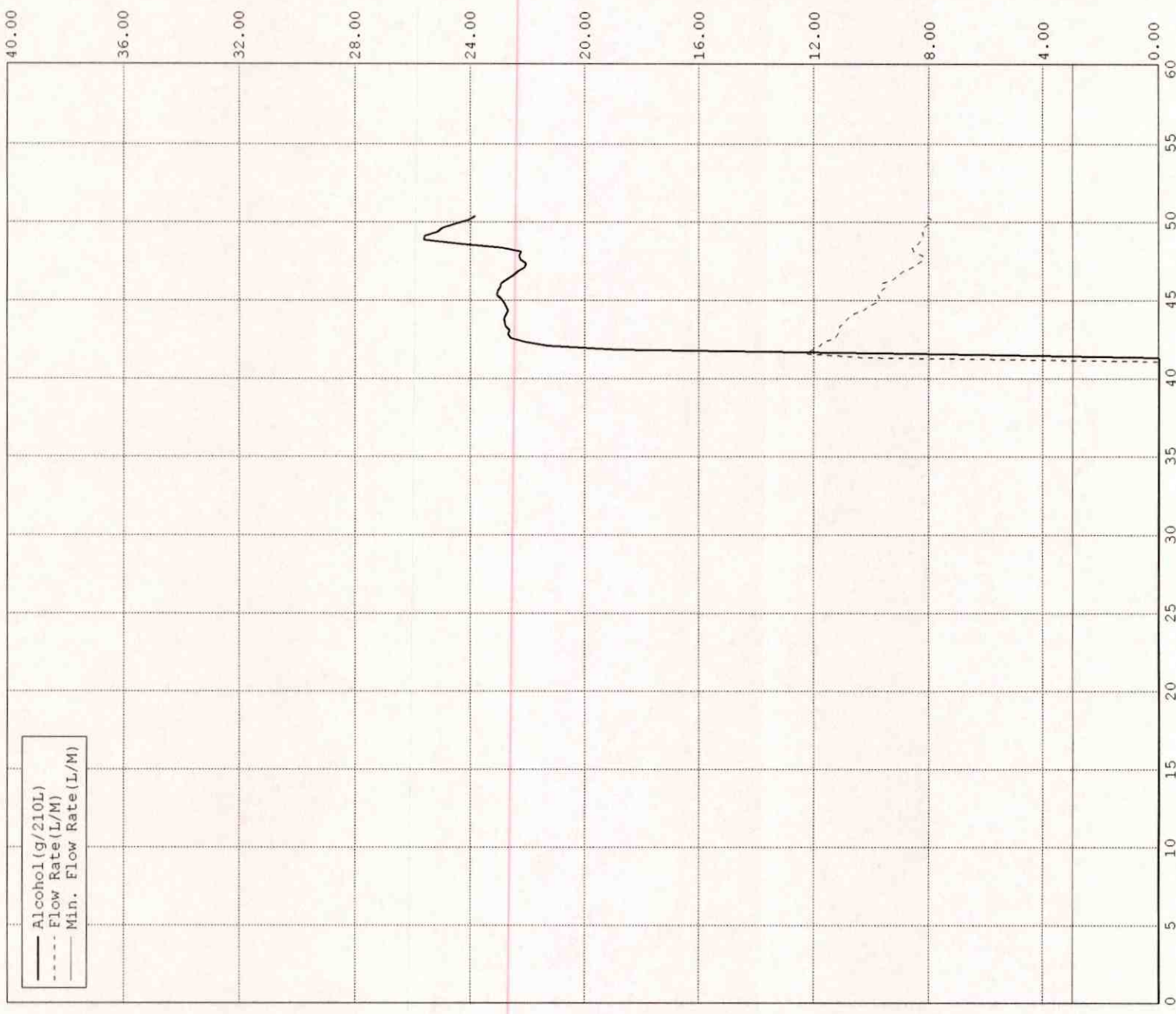
INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 13:27
0.000 13:27
VERIFIED 13:27
0.077 13:28
0.000 13:28
INVALID 13:29



CKG

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 11/04/2021
Time: 13:50:12

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

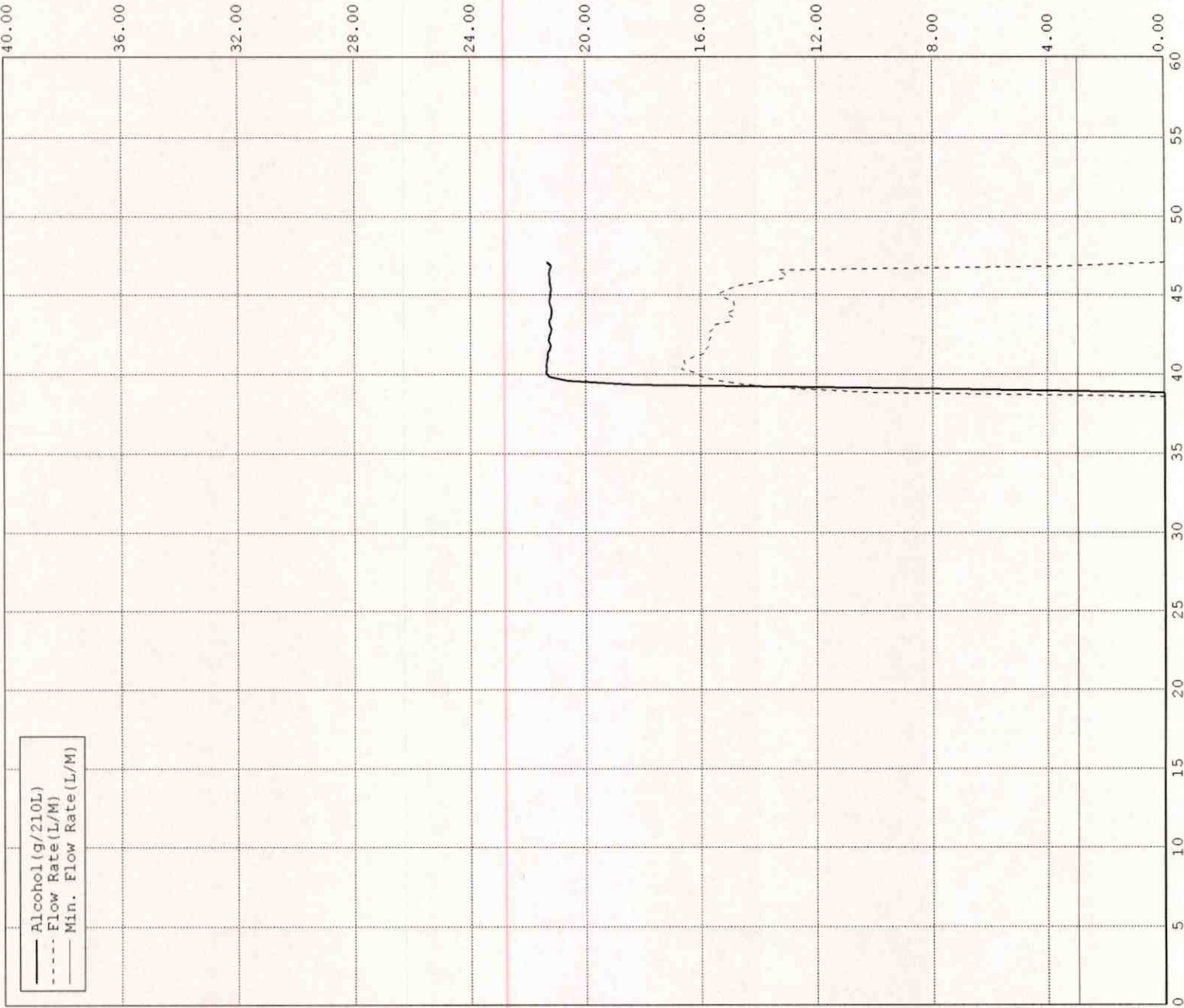
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:51
BLANK TEST 0.000 13:51
INTERNAL STANDARD VERIFIED 13:51
Xg = 0.087 (0.81%)
EXTERNAL STANDARD 0.077 13:51
X[1] = 0.0768 (-0.0012) (0.0016)
BLANK TEST 0.000 13:52
SUBJECT SAMPLE XXX 13:53
X[1] = 0.1095 (-0.0206) (0.0005)

Interference Detected

Filter 2 Average: -0.0011
Filter 3 Average: 0.0014
DUG- 11/4/2021

CVG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 11/04/2021
Time: 13:56:48

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

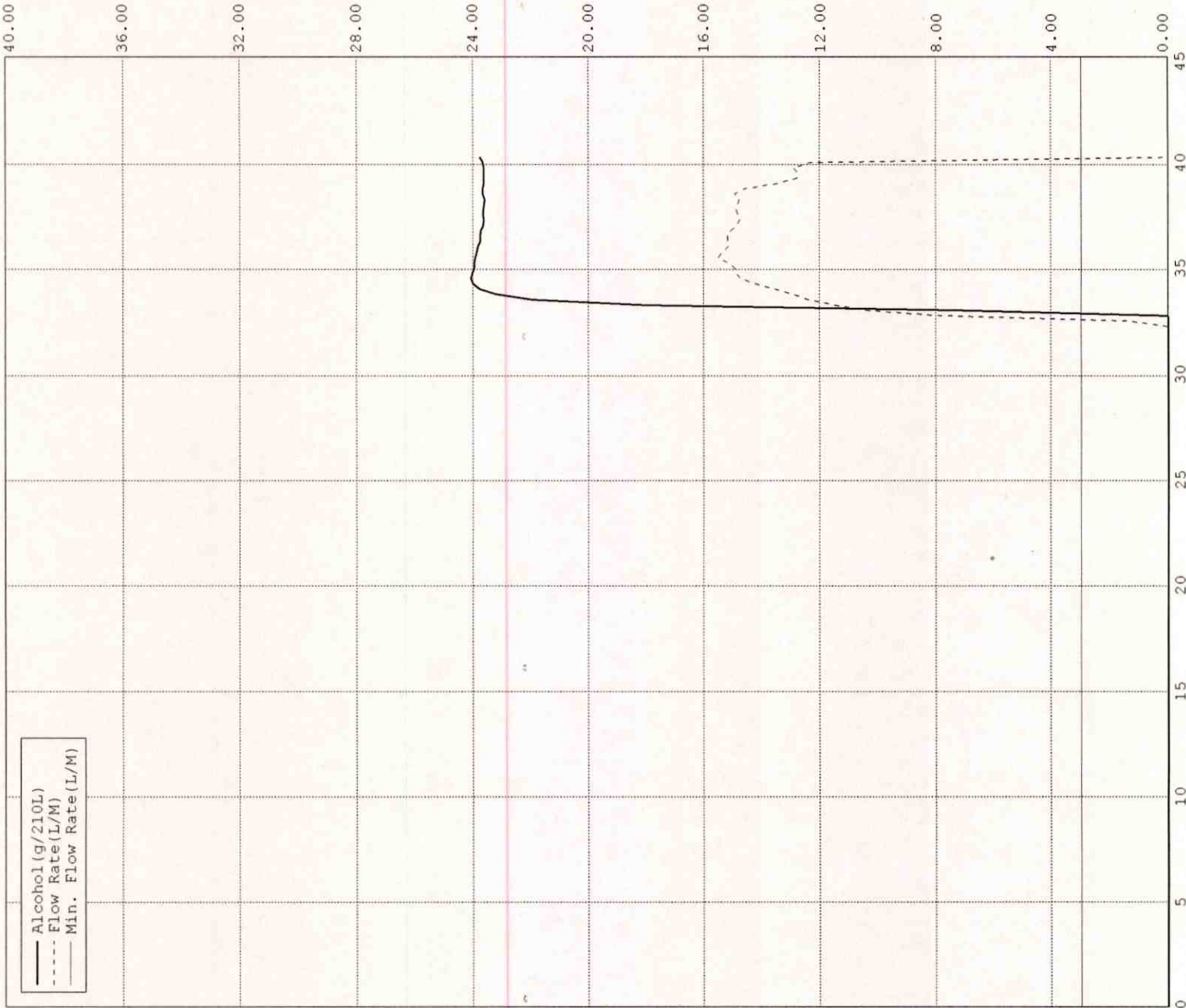
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.08: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:58
BLANK TEST 0.000 13:58
INTERNAL STANDARD VERIFIED 13:58
Xq = 0.087 (1.11%)
EXTERNAL STANDARD 0.077 13:58
X[1] = 0.0773 (-0.0013) (0.0016)
BLANK TEST 0.000 13:59
SUBJECT SAMPLE XXX 14:00
X[1] = 0.1225 (-0.0233) (0.0012)

Interference Detected

OKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 11/04/2021
Time: 14:03:16

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

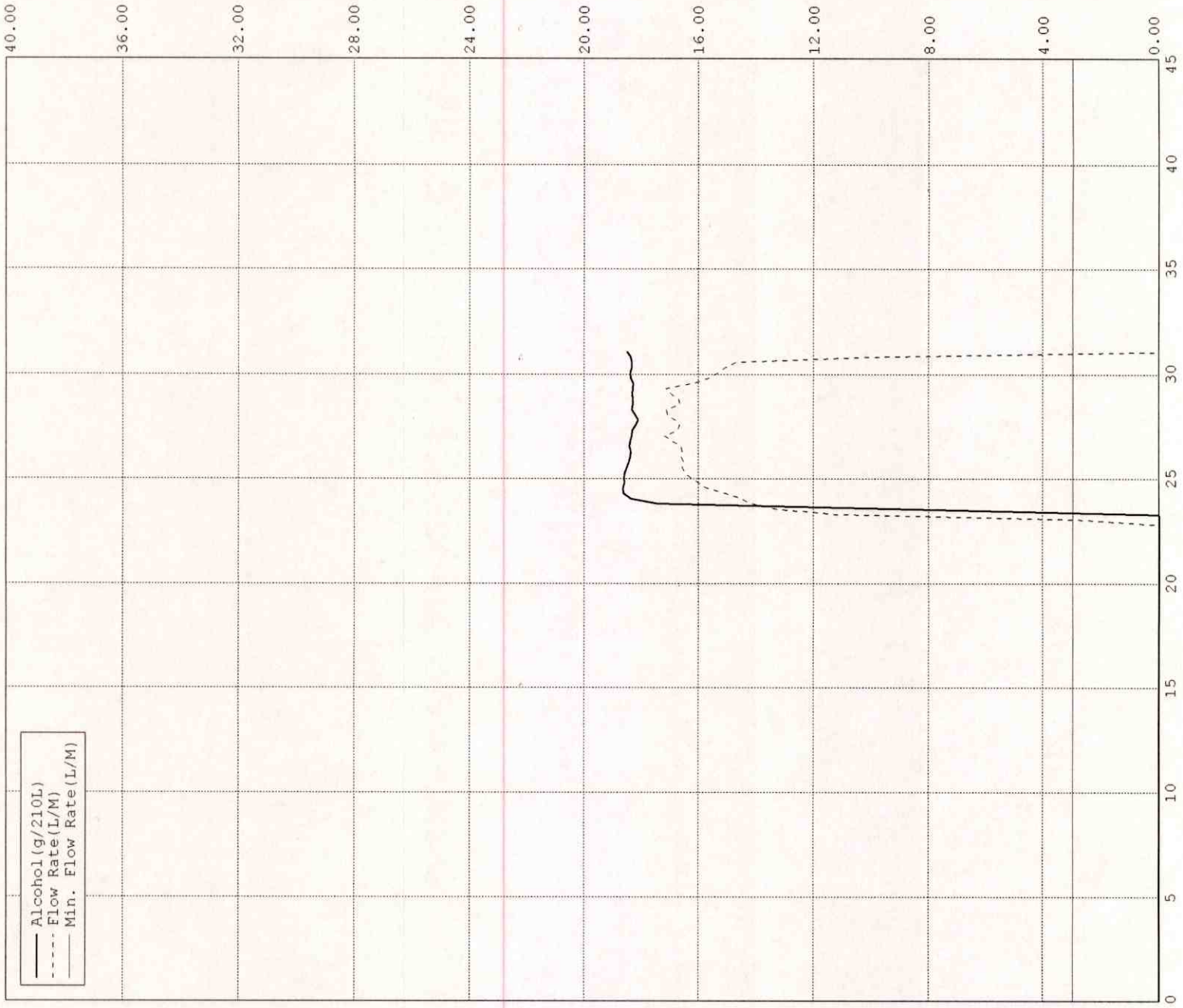
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.08: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:05
BLANK TEST	0.000	14:05
INTERNAL STANDARD	VERIFIED	14:05
Xq = 0.088 (1.51%)		
EXTERNAL STANDARD	0.077	14:05
X[1] = 0.0772 (-0.0018)	(0.0018)	
BLANK TEST	0.000	14:06
SUBJECT SAMPLE (Vol=2.04L)	0.095	14:07
X[1] = 0.0951 (-0.0002)	(-0.0001)	
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.077	14:08
X[1] = 0.0772 (0.0000)	(0.0015)	
BLANK TEST	0.000	14:09

CKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 11/04/2021
Time: 12:05:41

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
MAXIMUM ATTEMPTS EXCEEDED
CASE/REPORT: XXXX
TEST TYPE: TEST

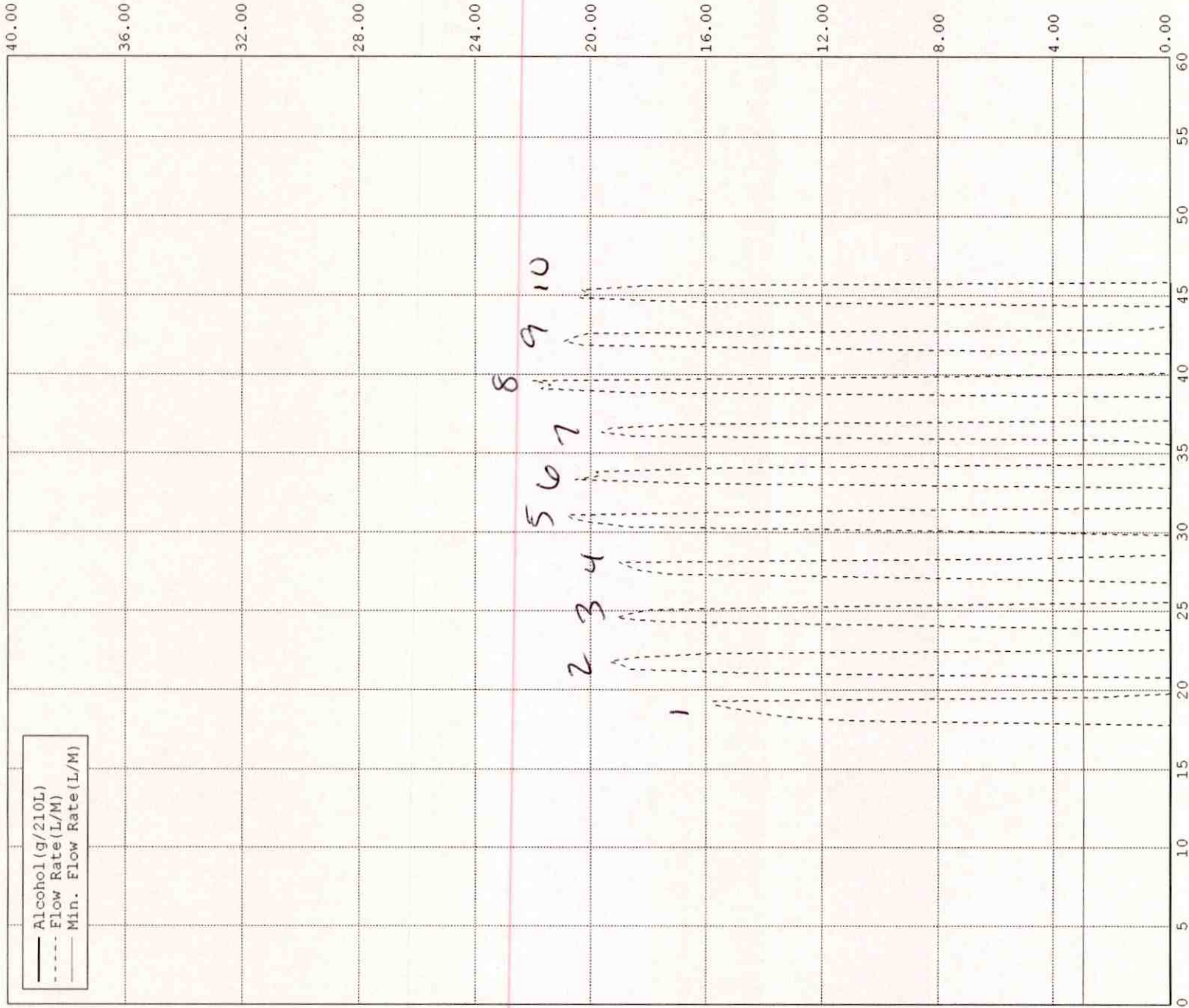
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 12:07
BLANK TEST 0.000 12:07
INTERNAL STANDARD VERIFIED 12:07
EXTERNAL STANDARD 0.077 12:07
BLANK TEST 0.000 12:08
SUBJECT SAMPLE XXX 12:09

Maximum Attempts Exceeded

CKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 11/04/2021
Time: 13:32:07

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

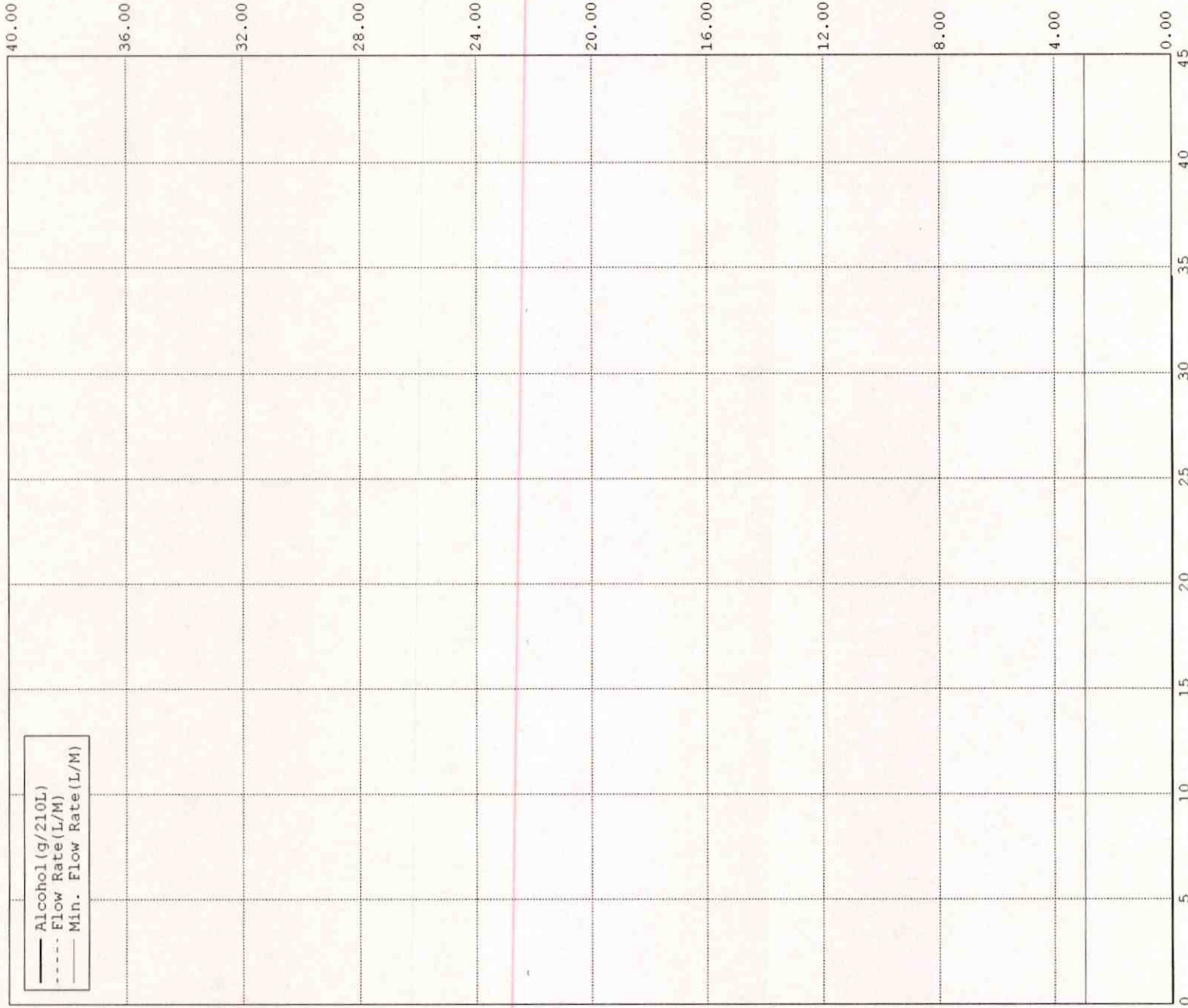
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:33
BLANK TEST 0.000 13:34
INTERNAL STANDARD VERIFIED 13:34
EXTERNAL STANDARD 0.077 13:34
BLANK TEST 0.000 13:35

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 11/04/2021
Time: 14:43:57

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
NON-DRINKING SUBJECT TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.08: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 14:45
BLANK TEST 0.000 14:45
INTERNAL STANDARD VERIFIED 14:45
EXTERNAL STANDARD 0.077 14:45
BLANK TEST 0.000 14:46
SUBJECT SAMPLE (Vol=2.56L) 0.000 14:47
BLANK TEST 0.000 14:48
EXTERNAL STANDARD 0.078 14:48
BLANK TEST 0.000 14:49

