

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100370 Analyst: Charlie Glaister Start Date: 6/21/2022

- Diagnostic Test (attached)
- Adjust voltages, if needed
 - Lamp (2.6V Maximum)
 - Bias
 - Cooler (2.0V Maximum)
- Internal Standard value \leq 3.00%
 - Chopper Frequency
 - Detector Voltage (-0.100V to 0.100V)
- Set RFI Sensitivity
- 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)
- Minimum Volume Test 1.5 L (1.3L to 1.7L)

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: AG100401 Exp: 01/04/2023
 0.040g/210L Mnf: Airgas Lot: AG111710 Exp: 04/27/2023
 0.080g/210L Mnf: Airgas Lot: AG018102 Exp: 06/29/2022
 0.100g/210L Mnf: Airgas Lot: AG108404 Exp: 03/25/2023
 0.200g/210L Mnf: Guth Lot: 20510 Exp: 12/03/2022
 Simulator S/N: DR4177 Date Calibrated: 11/30/2021
 0.300g/210L Mnf: Guth Lot: 21030 Exp: 02/02/2023
 Simulator S/N: SD1176 Date Calibrated: 11/30/2021

Functional Tests (attached)

- Incomplete
 - Maximum Attempts Exceeded
 - Interference (Volatiles)
 - Invalid
 - Radio Frequency Interference
- Acetone Mnf: Lifeloc Lot: 21DP41158 Level: 0.100 Exp: 04/29/2023
 Simulator S/N: SD1200 Date Calibrated: 11/30/2021
 Isopropanol Mnf: Lifeloc Lot: 21KP41172 Level: 0.100 Exp: 11/09/2023
 Simulator S/N: DR4176 Date Calibrated: 11/30/2021
 Neg. Control Mnf: Lifeloc Lot: 21DP41158 Level: 0.100 Exp: 04/29/2023
 Simulator S/N: DR4162 Date Calibrated: 11/29/2021

- Verify stylus is calibrated
- Reset Options
- Clear Memory
- Verification of Calibration
- Non-Drinking Subject Test
- Upload
- Remove Tank Prior to Shutdown
- Add Linearity Data to Spreadsheet

End Date: 6/21/2022

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 06/21/2022
Time: 08:56:44

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.90 V PASSED
(1.06 V - 2.48 V)
Cooler Voltage = 1.74 V PASSED
(1.06 V - 2.46 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 533 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 4.792 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.003 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 = 0.090 1.77% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100370

Date: 06/21/2022
Time: 9:20 AM

Temperatures (°C)
Sample Cell: 49.6°C
Breath Tube: 45.3°C

Current Barometer 29.9 in
Volume (Ltr) 1.58

Settings
Lamp: 1.93 V
Bias: 80 V
Cooler: 1.87 V
Chopper: 534 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.030 V

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

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 06/21/2022
Time: 09:21:23

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

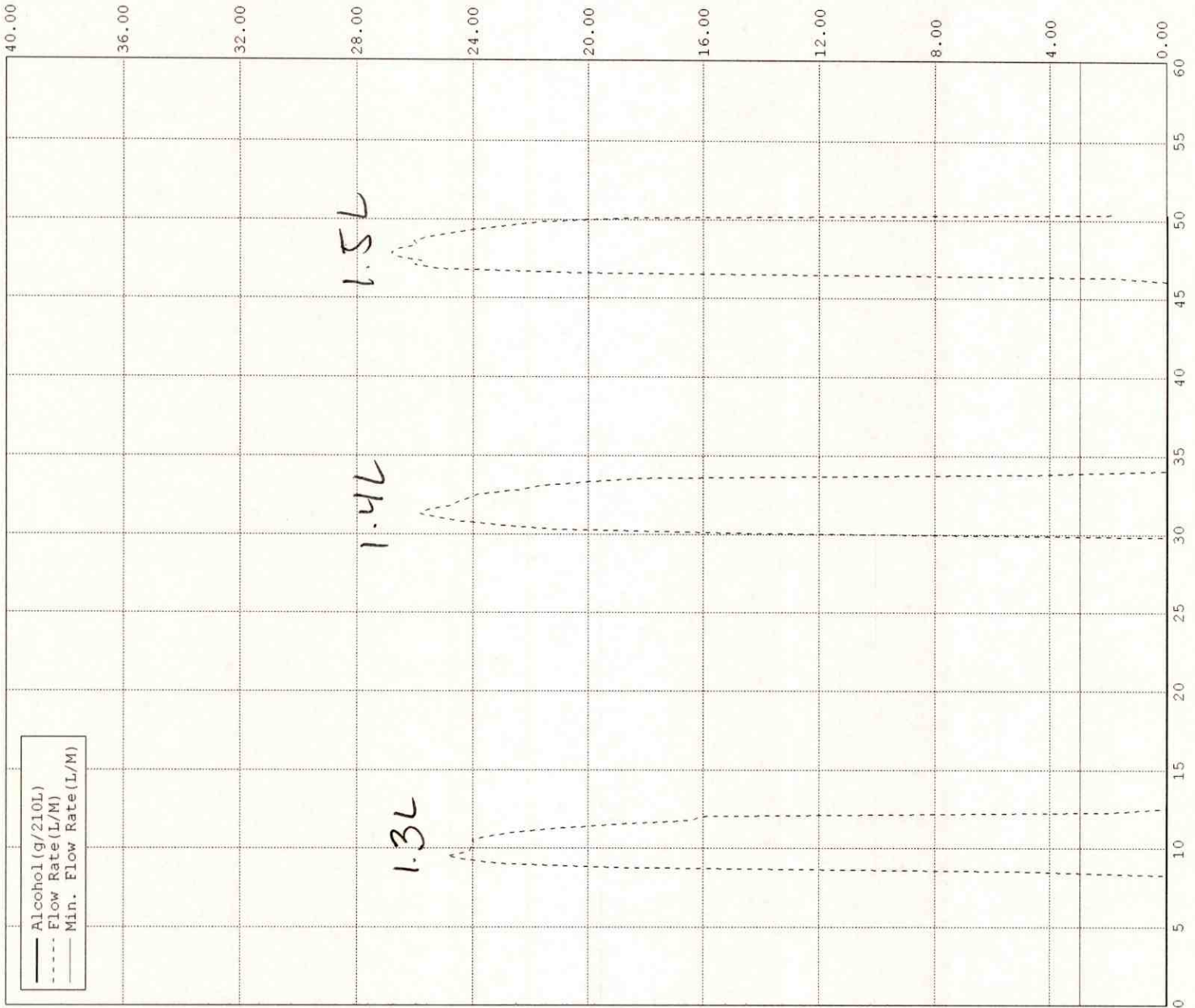
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:23
BLANK TEST	0.000	09:23
INTERNAL STANDARD	VERIFIED	09:23
EXTERNAL STANDARD	0.080	09:23
BLANK TEST	0.000	09:24
SUBJECT SAMPLE (Vol=1.53L)	0.000	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.079	09:26
BLANK TEST	0.000	09:27

CKG



LINEARITY CHECK

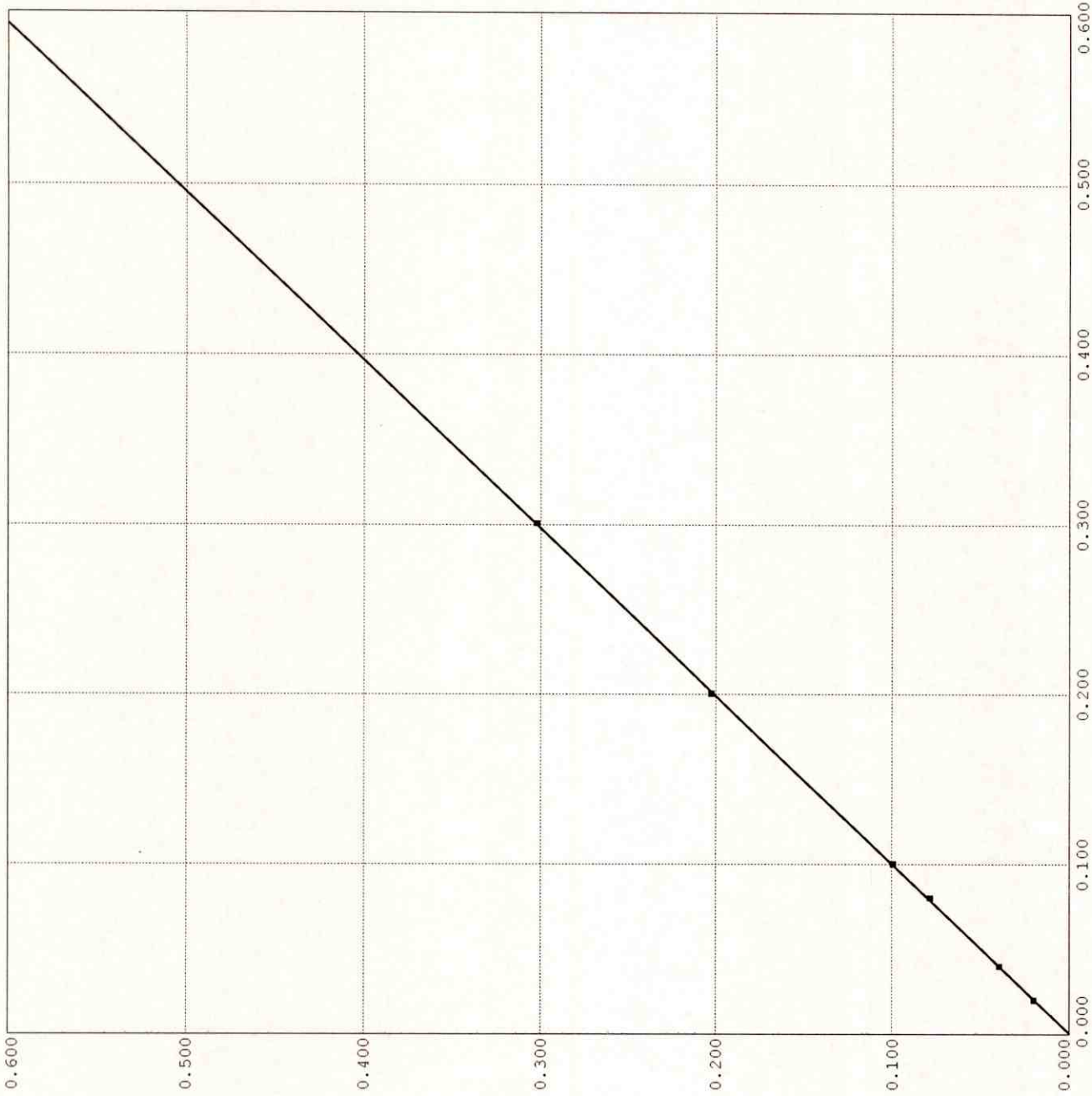
Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 06/21/2022
 Time: 09:50:32

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.020	0.0206	0.0005
0.040	0.0402	0.0004
0.080	0.0794	0.0005
0.100	0.1002	0.0004
0.200	0.2034	0.0005
0.300	0.3030	0.0007

SLOPE = 1.012835
 R² = 0.999928



CKG

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

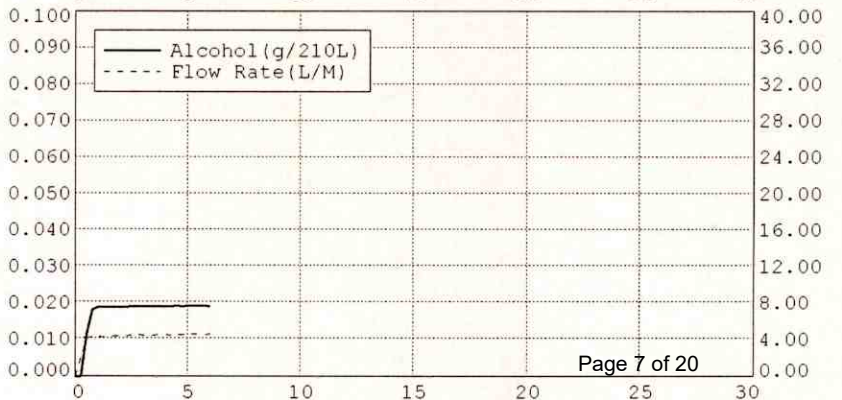
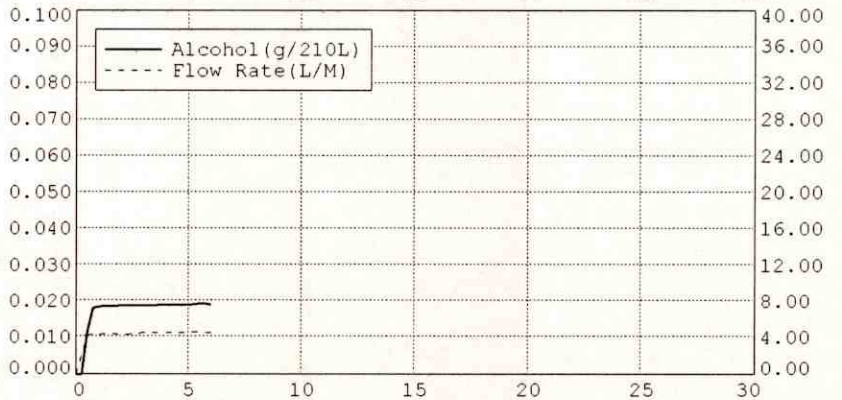
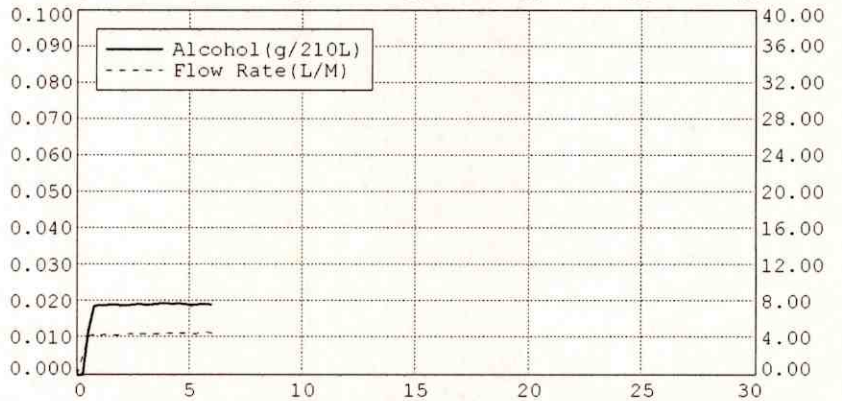
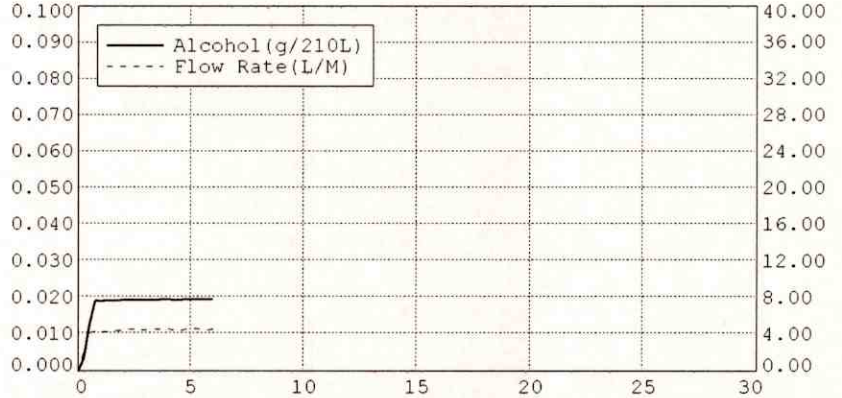
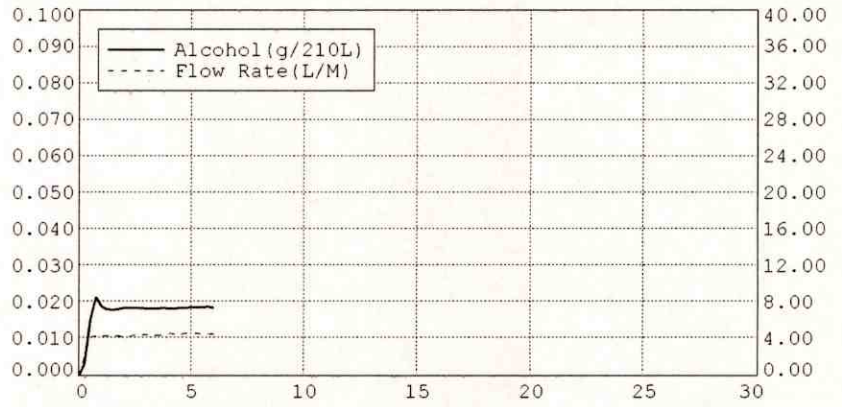
Date: 06/21/2022
 Time: 09:50:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.86: 0.020
 LOT #: AG100401
 EXPIRATION: 01/04/2023
 TANK PRESSURE: 935 psi

BLANK TEST	0.000	09:51
INTERNAL STANDARD	VERIFIED	09:51
EXTERNAL STANDARD	0.020	09:52
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.021	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.021	09:54
BLANK TEST	0.000	09:55
EXTERNAL STANDARD	0.020	09:55
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.021	09:56
BLANK TEST	0.000	09:57

Average = 0.0206
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

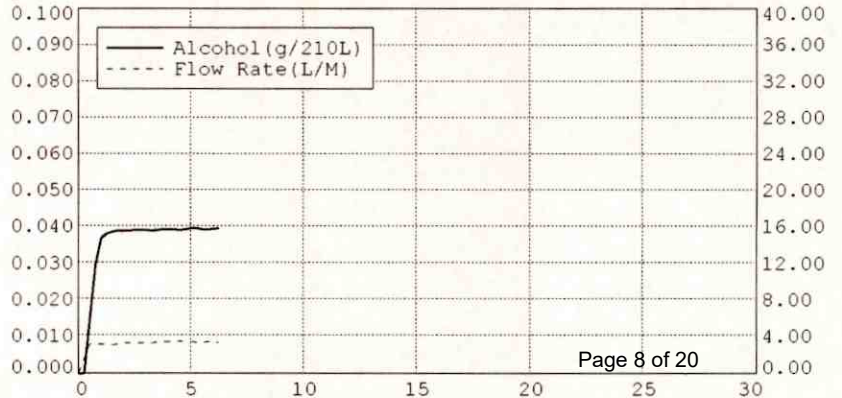
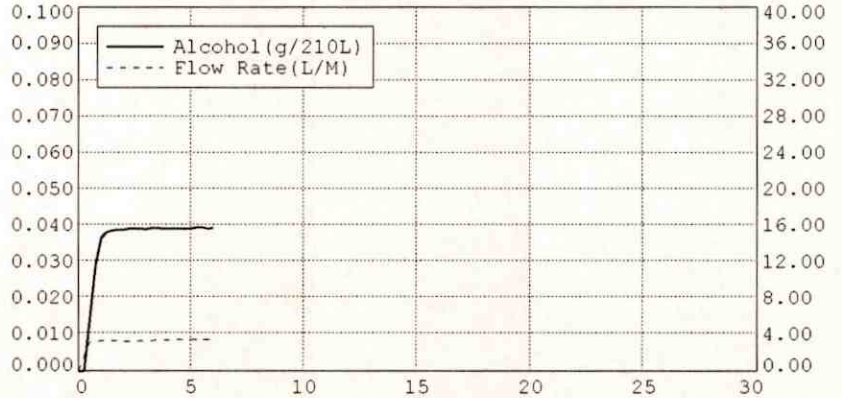
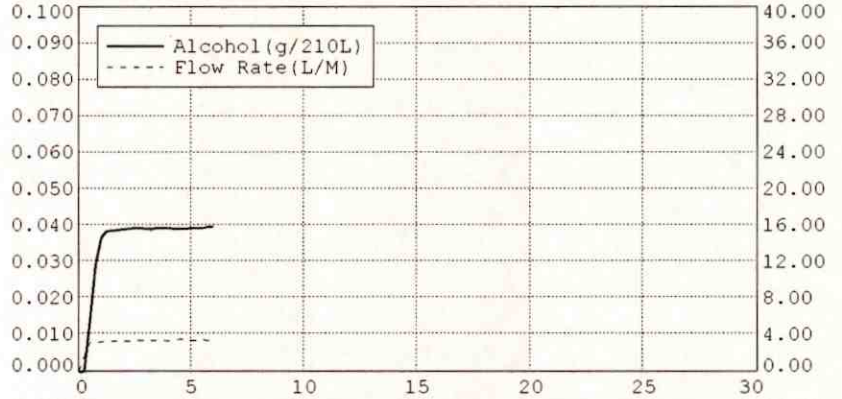
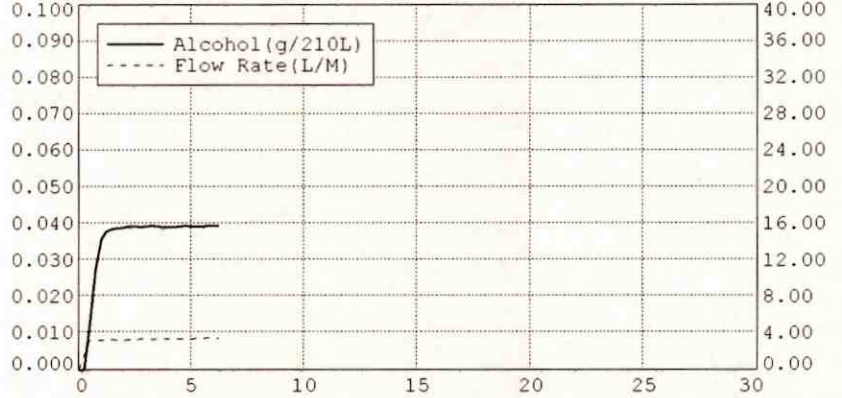
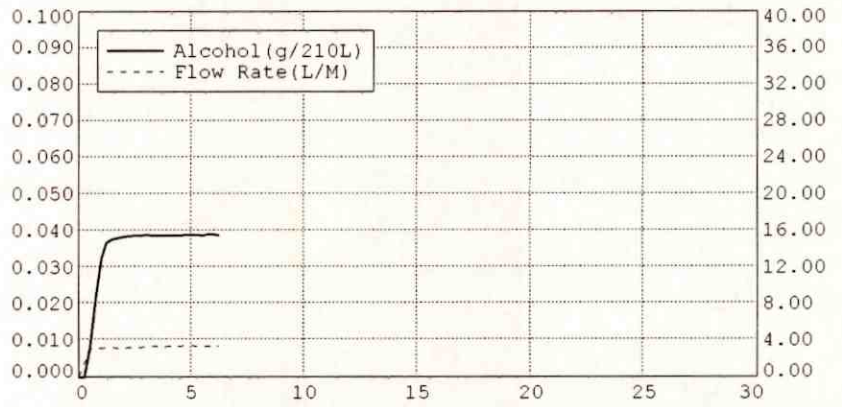
Date: 06/21/2022
 Time: 09:58:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.86: 0.040
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 386 psi

BLANK TEST	0.000	10:00
INTERNAL STANDARD	VERIFIED	10:00
EXTERNAL STANDARD	0.040	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.040	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.041	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.040	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.040	10:04
BLANK TEST	0.000	10:05

Average = 0.0402
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

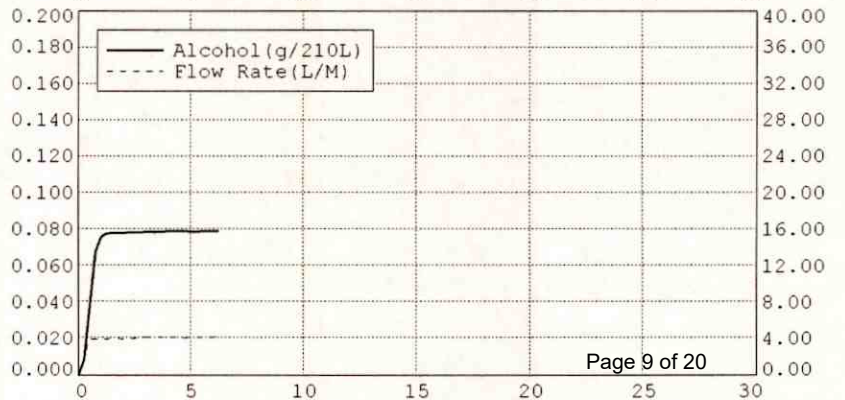
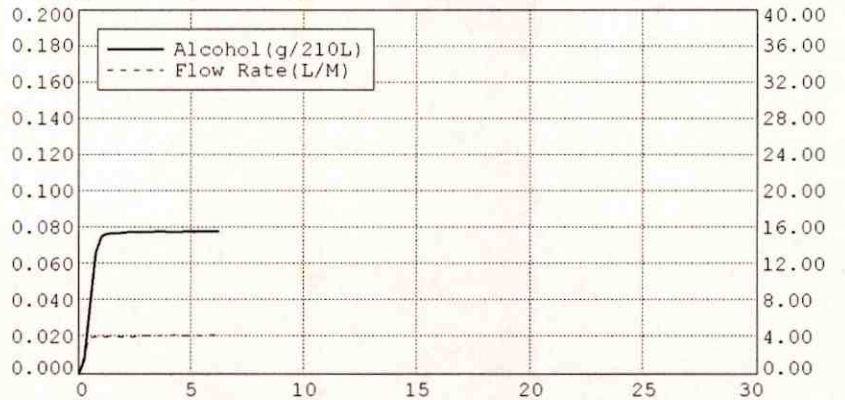
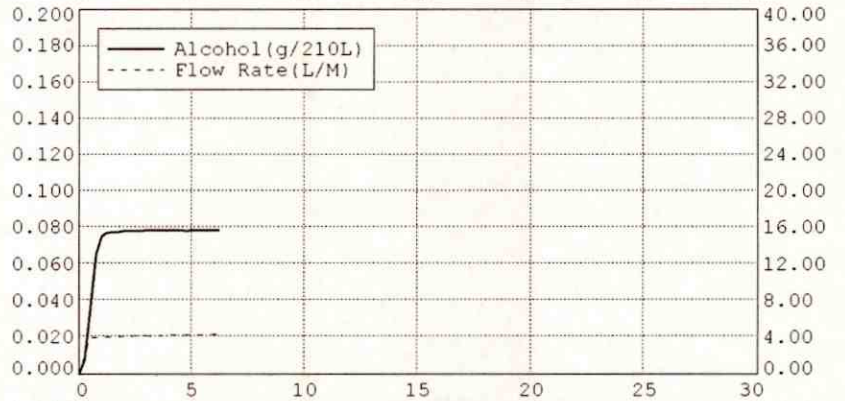
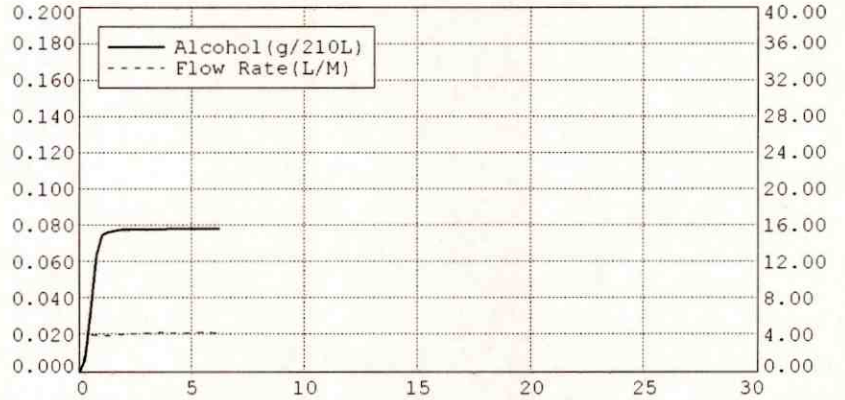
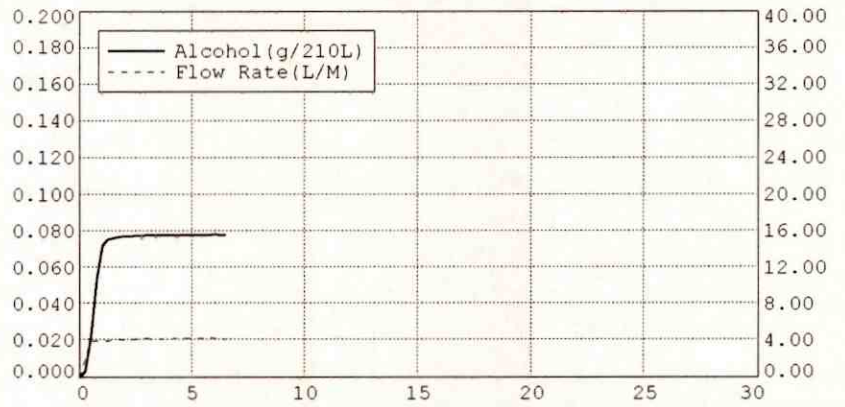
Date: 06/21/2022
 Time: 10:08:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.87: 0.080
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 739 psi

BLANK TEST	0.000	10:09
INTERNAL STANDARD	VERIFIED	10:09
EXTERNAL STANDARD	0.079	10:10
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.080	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.079	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.079	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.080	10:14
BLANK TEST	0.000	10:15

Average = 0.0794
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

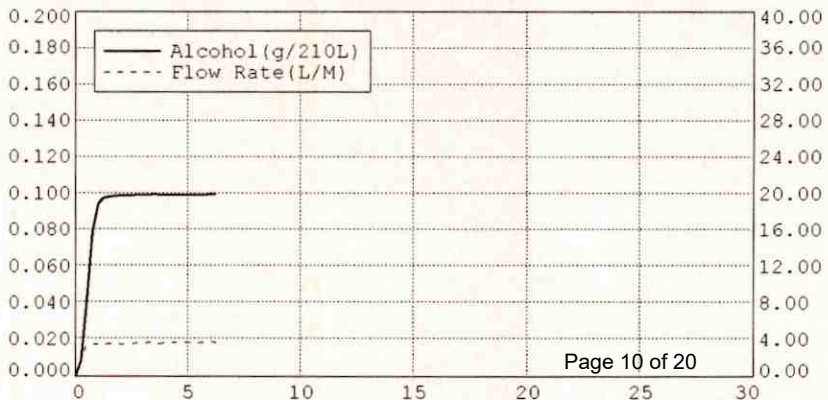
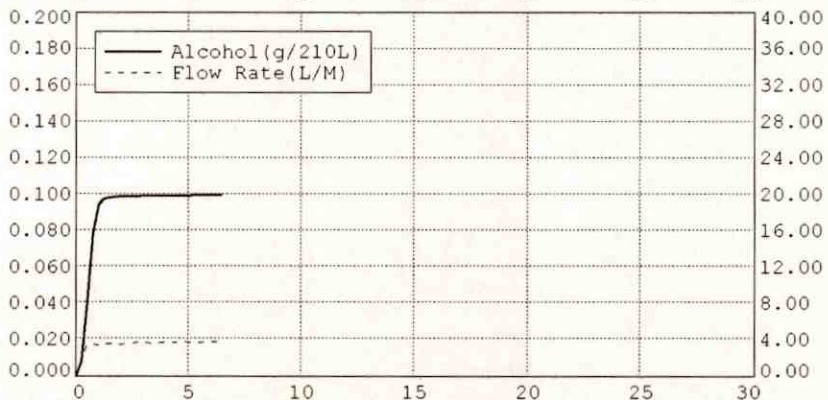
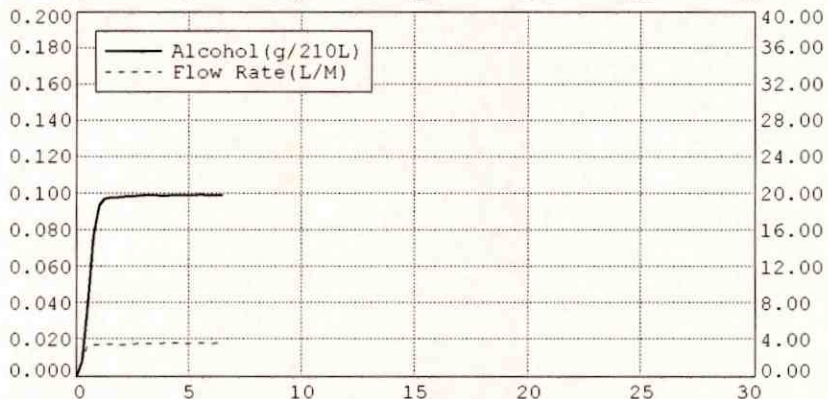
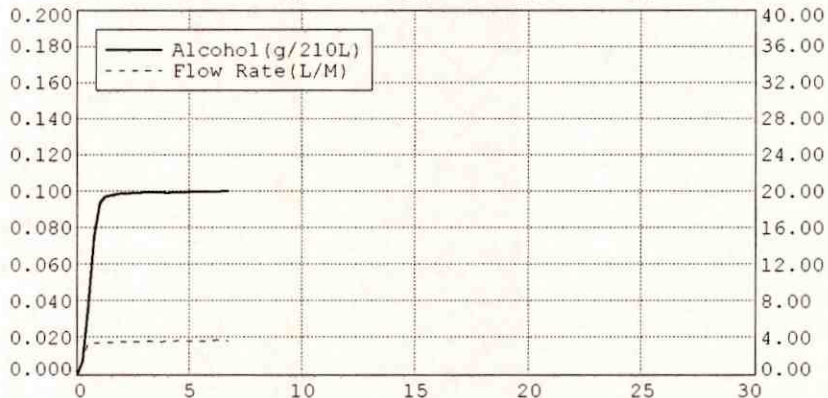
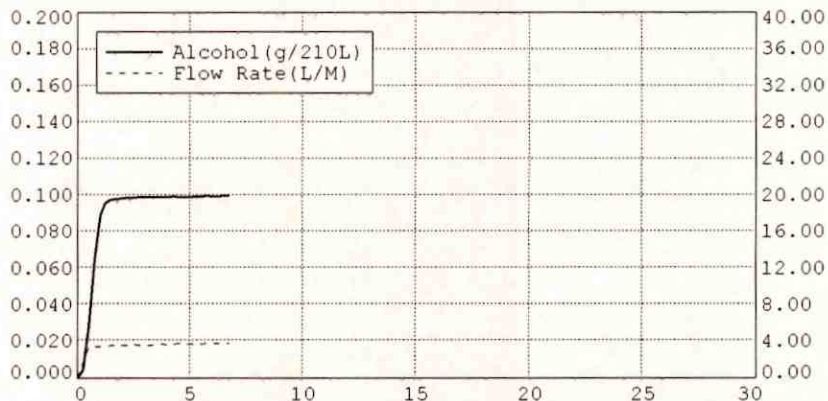
Date: 06/21/2022
 Time: 10:16:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.87: 0.100
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 495 psi

BLANK TEST	0.000	10:17
INTERNAL STANDARD	VERIFIED	10:17
EXTERNAL STANDARD	0.100	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.101	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.100	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.100	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.100	10:22
BLANK TEST	0.000	10:23

Average = 0.1002
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

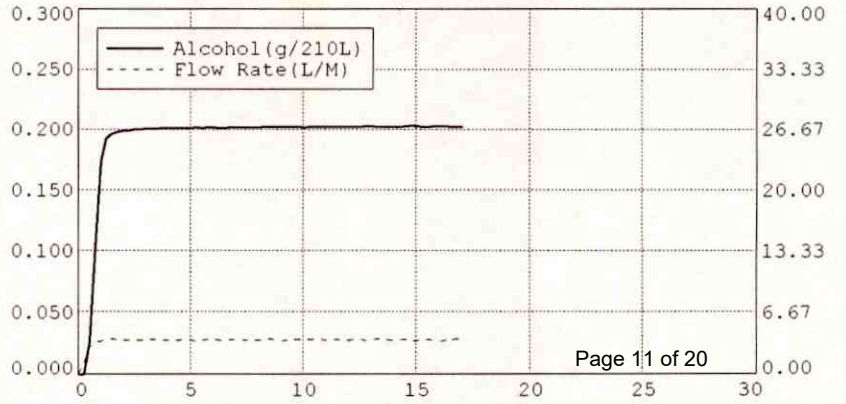
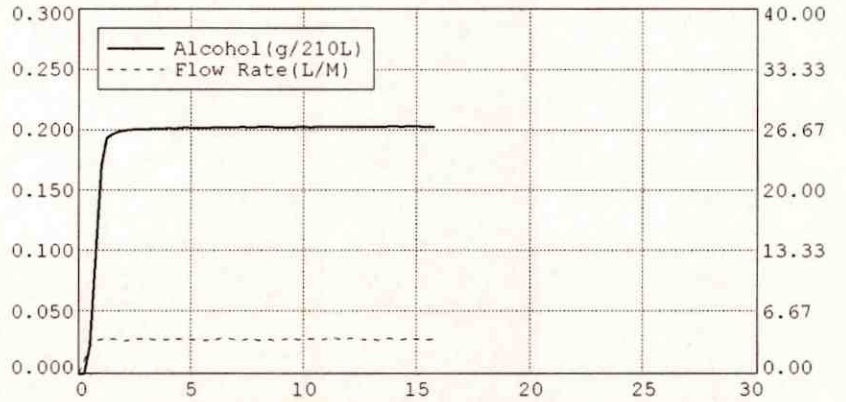
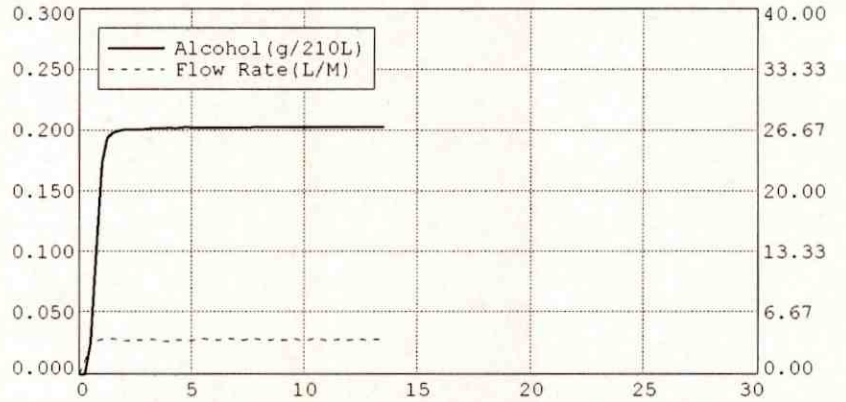
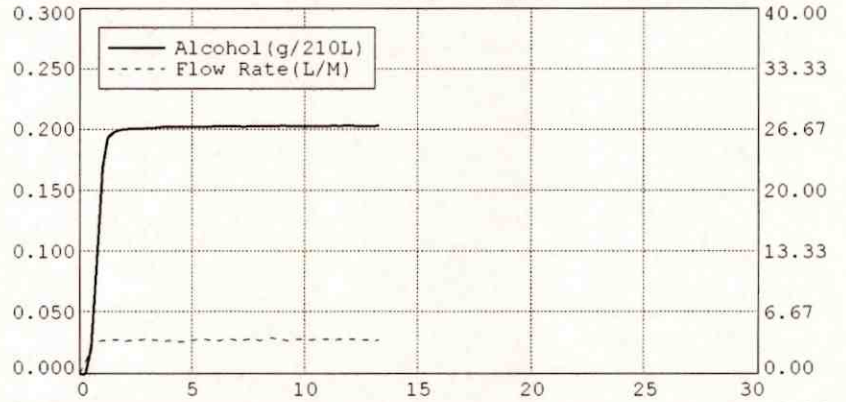
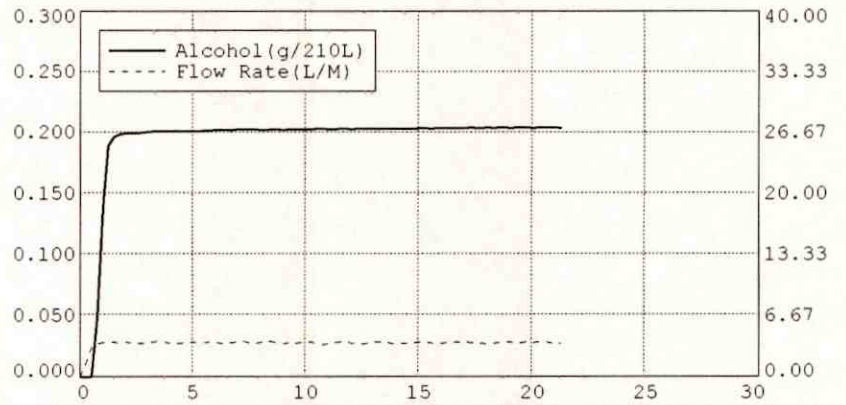
Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 06/21/2022
 Time: 10:25:21

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

BLANK TEST	0.000	10:26
INTERNAL STANDARD	VERIFIED	10:26
EXTERNAL STANDARD	0.204	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.203	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.203	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.204	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.203	10:32
BLANK TEST	0.000	10:33

Average = 0.2034
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

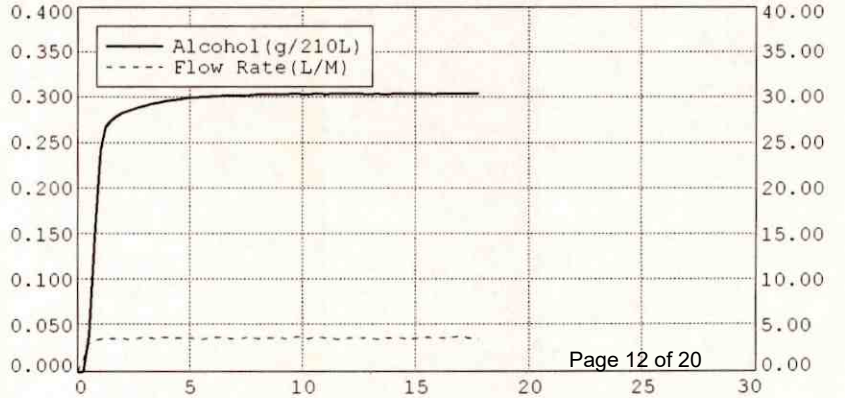
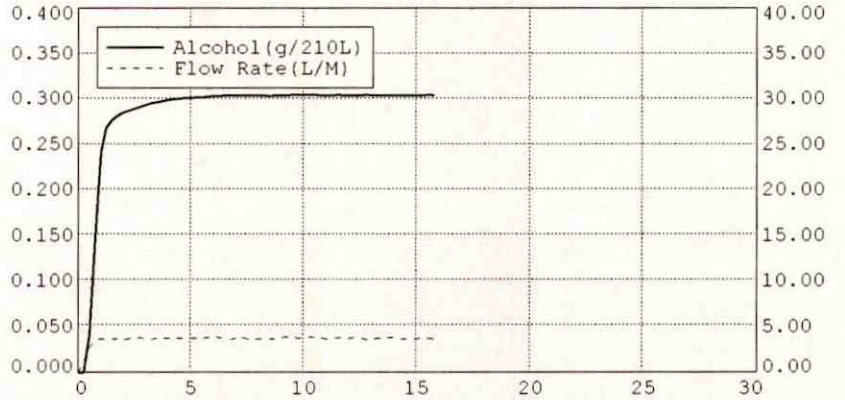
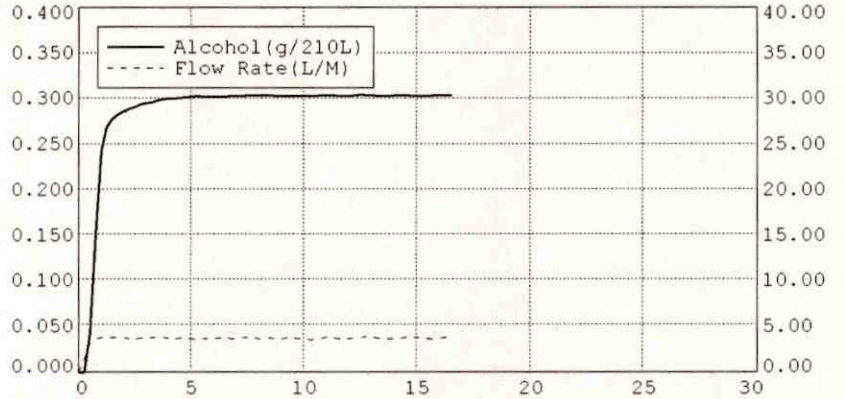
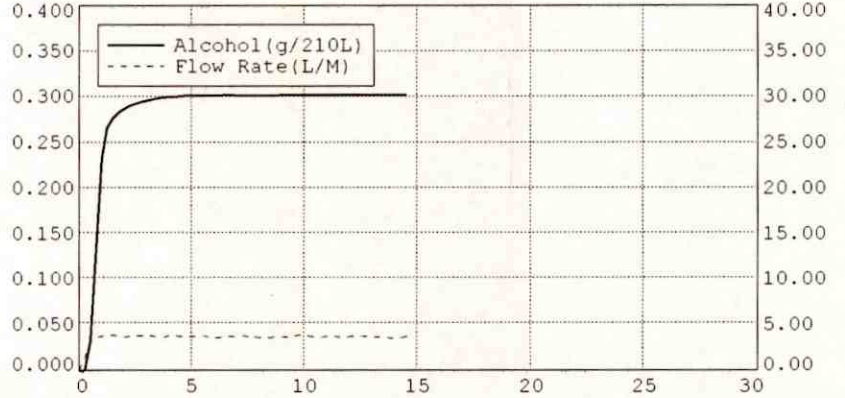
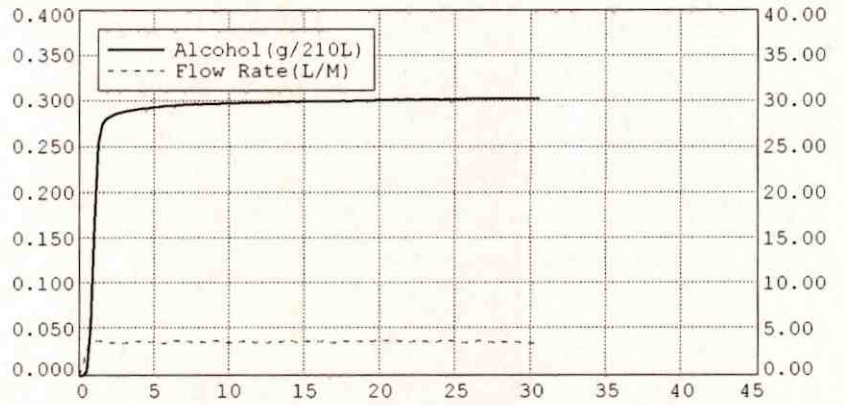
Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 06/21/2022
 Time: 10:36:01

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

BLANK TEST	0.000	10:37
INTERNAL STANDARD	VERIFIED	10:37
EXTERNAL STANDARD	0.303	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.302	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.303	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.303	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.304	10:43
BLANK TEST	0.000	10:44

Average = 0.3030
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100370

Date: 06/21/2022

Time: 10:54:45

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 29.87: 0.080

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

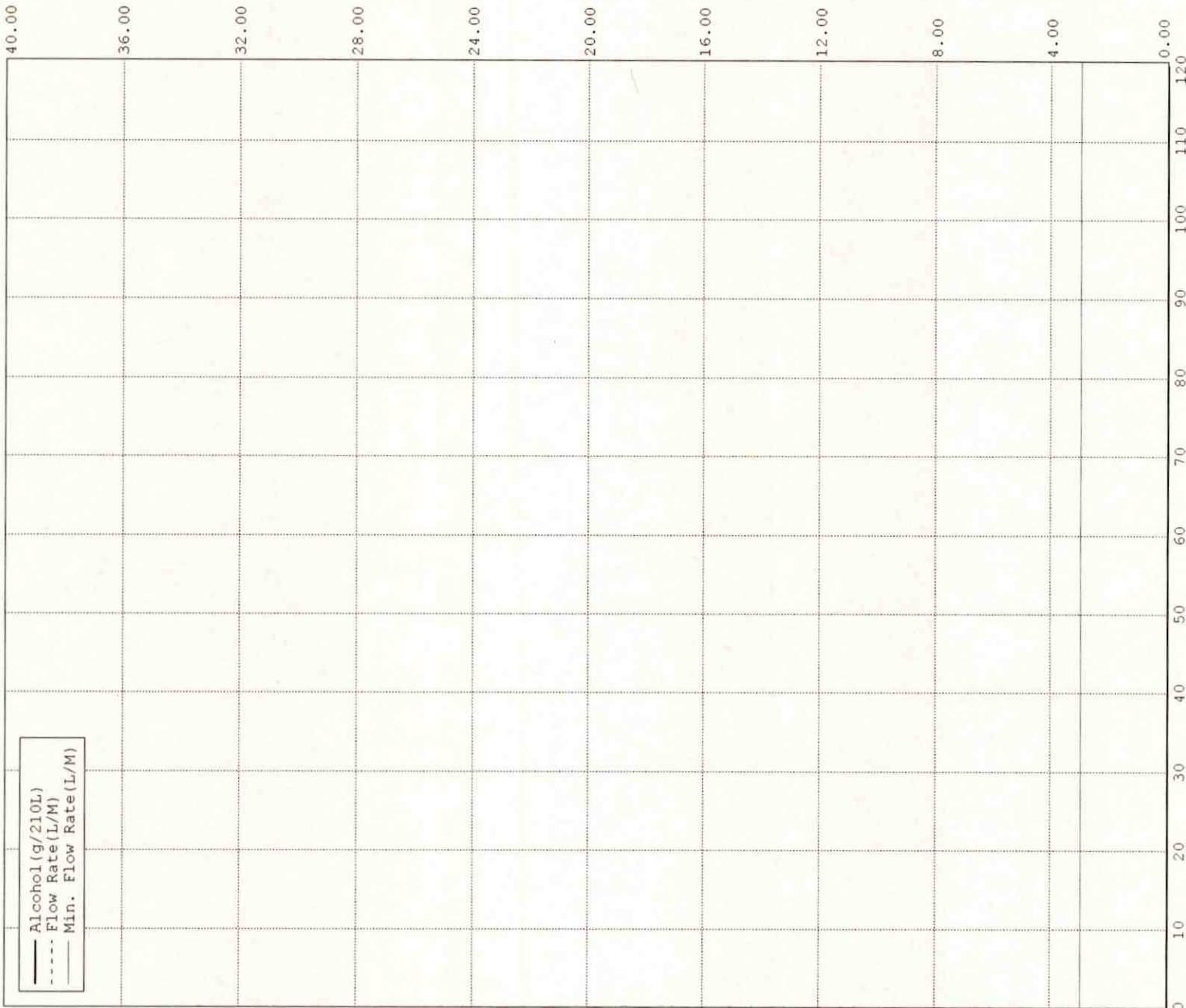
EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 10:57
0.000 10:57
VERIFIED 10:57
0.079 10:57
0.000 10:58
INCOMPLETE 11:00

OKG



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100370

Date: 06/21/2022
Time: 11:03:39

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

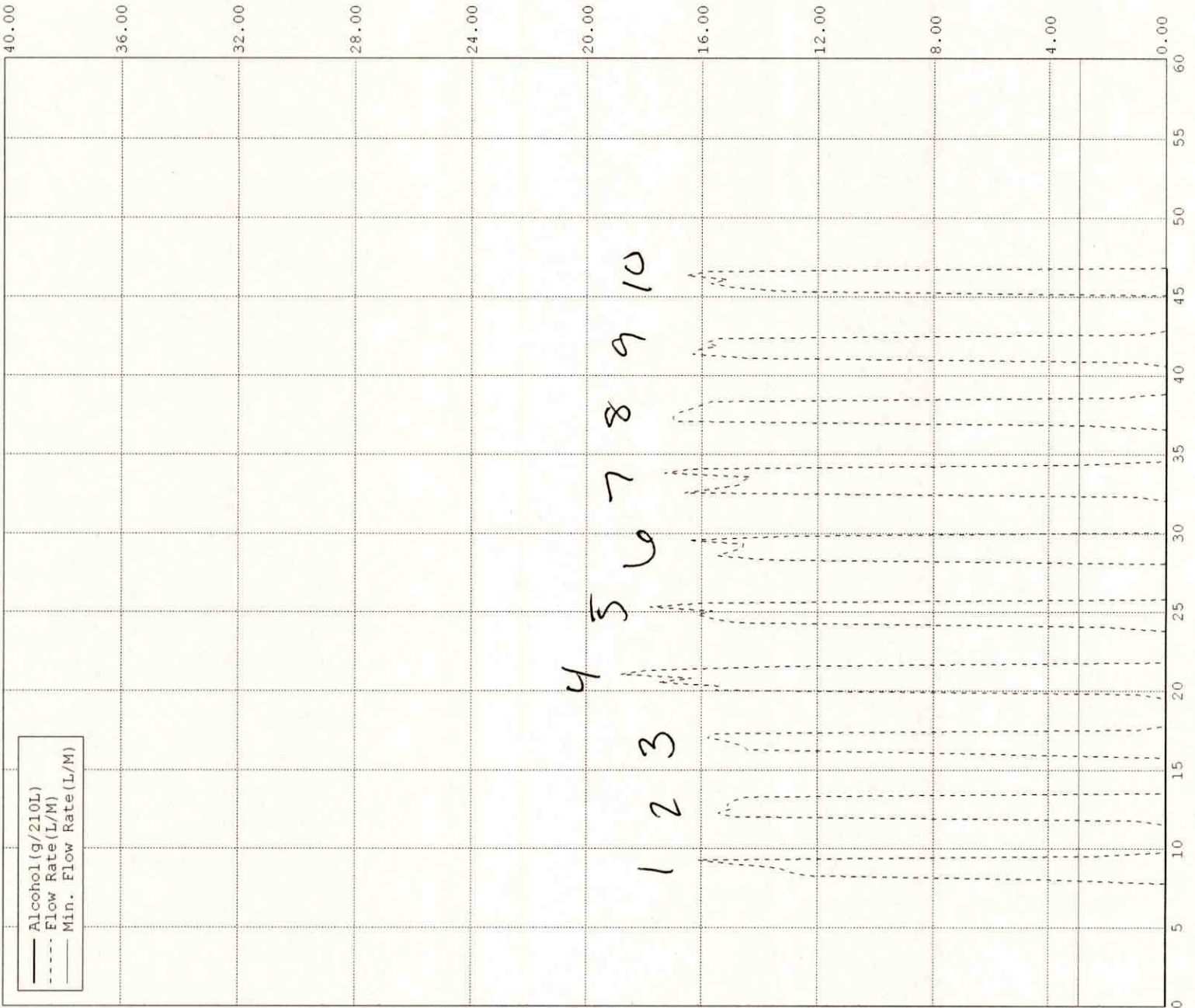
DEPT/AGENCY:
MAXIMUM ATTEMPTS EXCEEDED
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:04
BLANK TEST 0.000 11:04
INTERNAL STANDARD VERIFIED 11:05
EXTERNAL STANDARD 0.079 11:05
BLANK TEST 0.000 11:06
SUBJECT SAMPLE XXX 11:07

Maximum Attempts Exceeded

CKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 06/21/2022
Time: 11:17:43

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

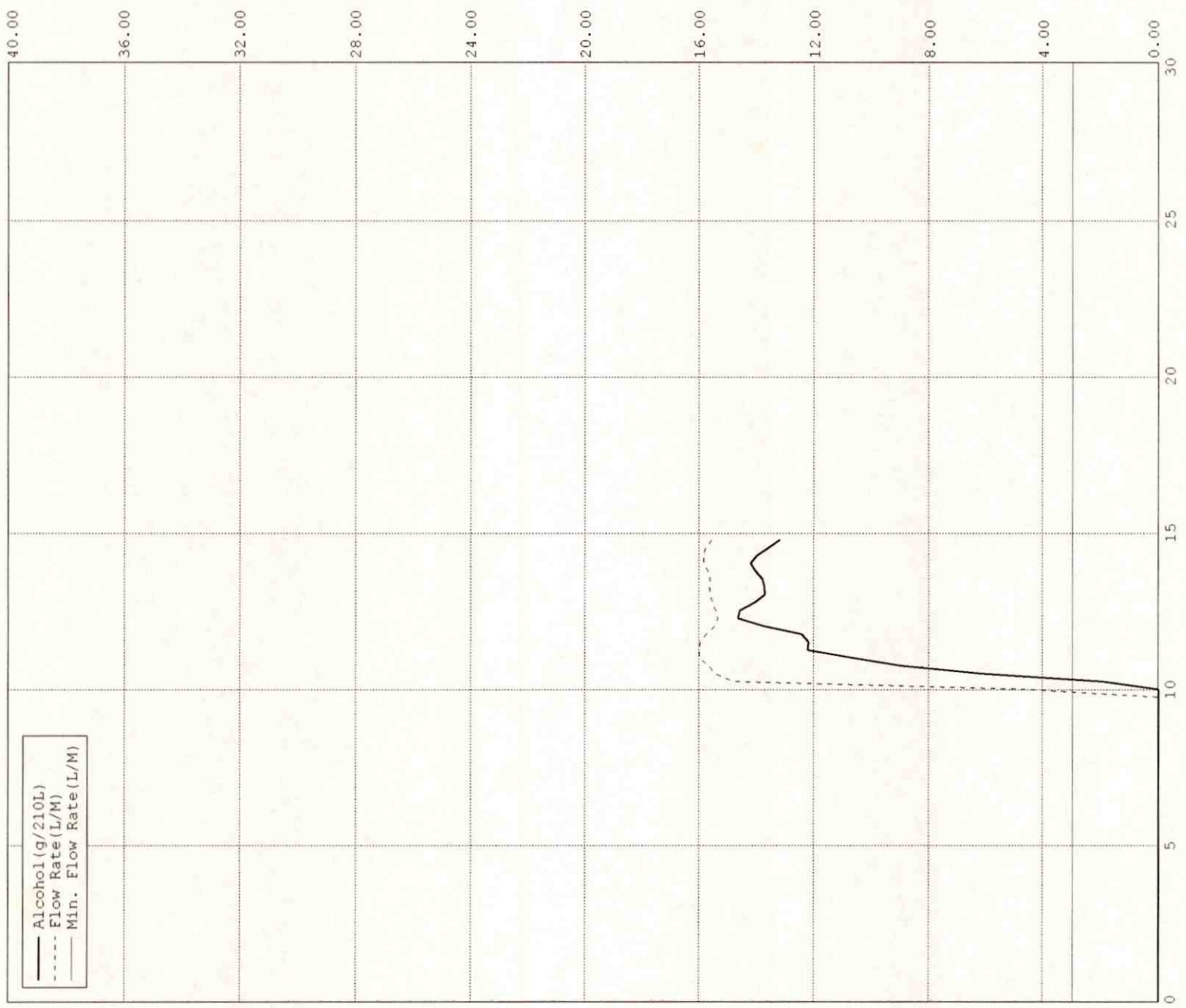
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:19
BLANK TEST 0.000 11:19
INTERNAL STANDARD VERIFIED 11:19
EXTERNAL STANDARD 0.079 11:19
BLANK TEST 0.000 11:20
SUBJECT SAMPLE INVALID 11:20

OKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 06/21/2022
Time: 11:24:43

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

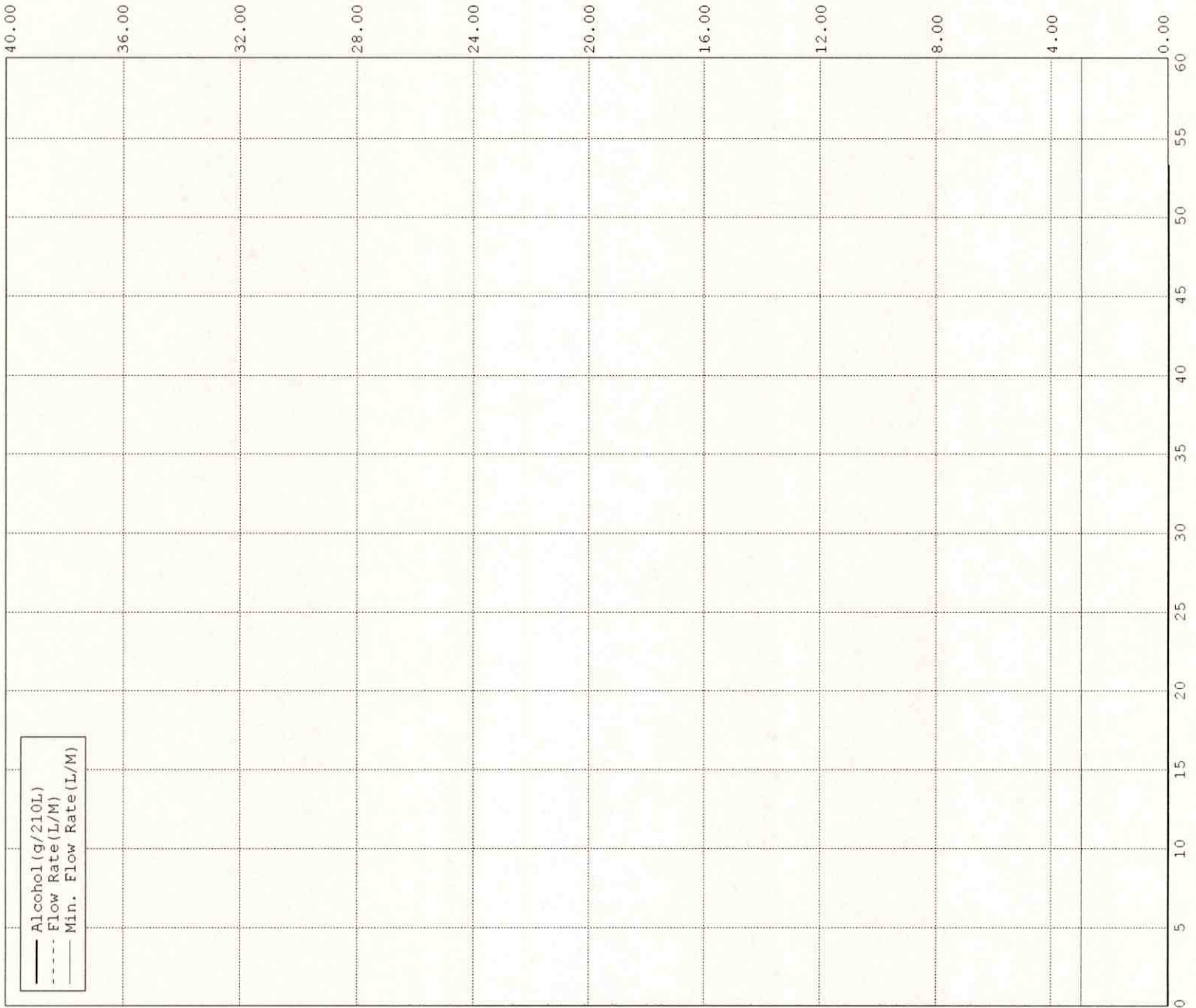
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.87: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:25
BLANK TEST 0.000 11:25
INTERNAL STANDARD VERIFIED 11:26
EXTERNAL STANDARD 0.079 11:26
BLANK TEST 0.000 11:27

RFI DETECTED

CKG



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100370

Date: 06/21/2022

Time: 12:46:51

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 29.86: 0.080

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

PASSED

12:47

BLANK TEST

0.000

12:47

INTERNAL STANDARD

VERIFIED

12:48

Xq = 0.091 (2.85%)

EXTERNAL STANDARD

0.079

12:48

X[1] = 0.0795 (0.0016) (0.0017)

BLANK TEST

0.000

12:49

SUBJECT SAMPLE

XXX

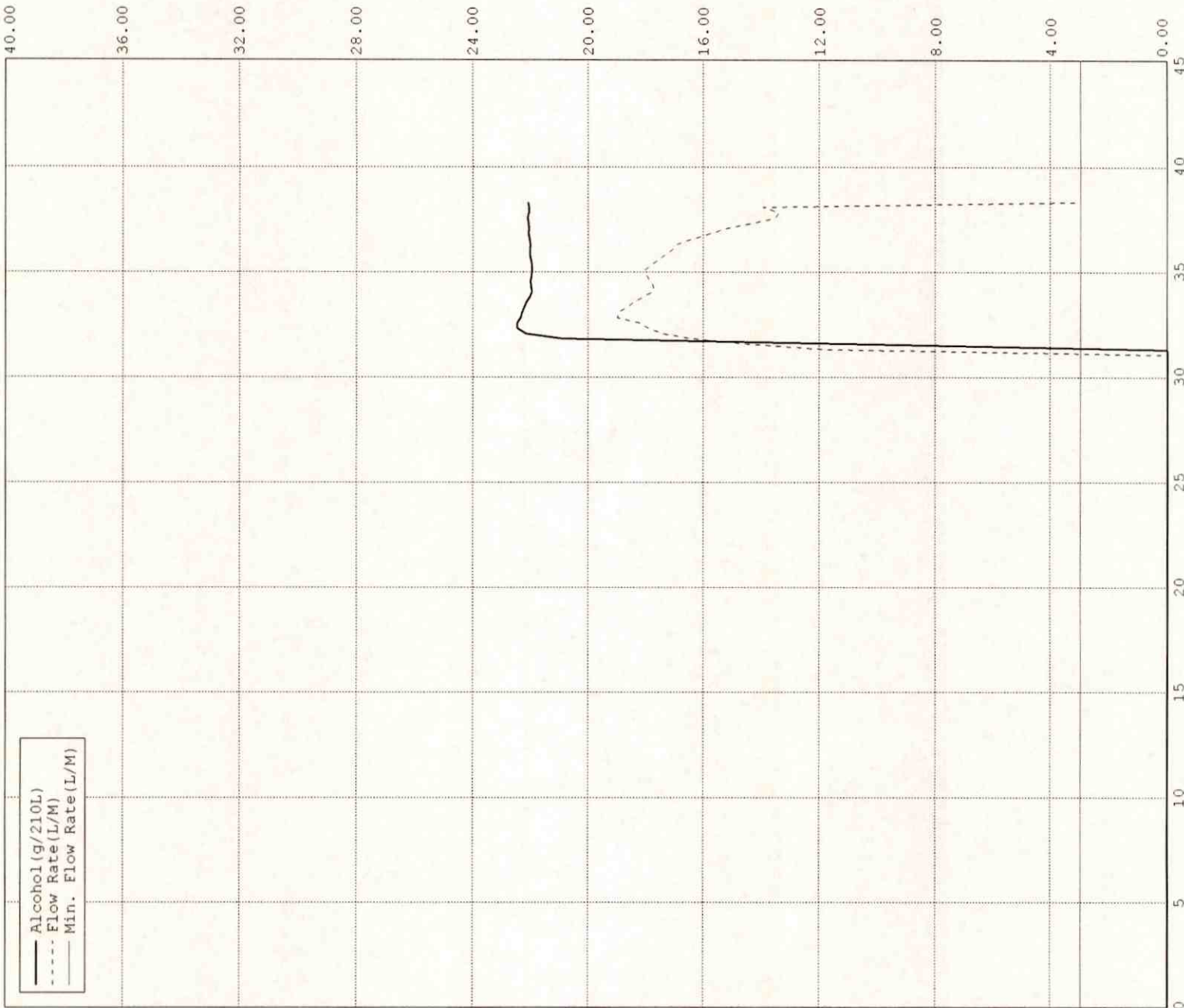
12:49

X[1] = 0.1107 (-0.0193) (0.0000)

Interference Detected

Filter 2 Avg: 0.0015
Filter 3 Avg: 0.0020
CKG-06/21/2022

CKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 06/21/2022
Time: 12:51:45

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

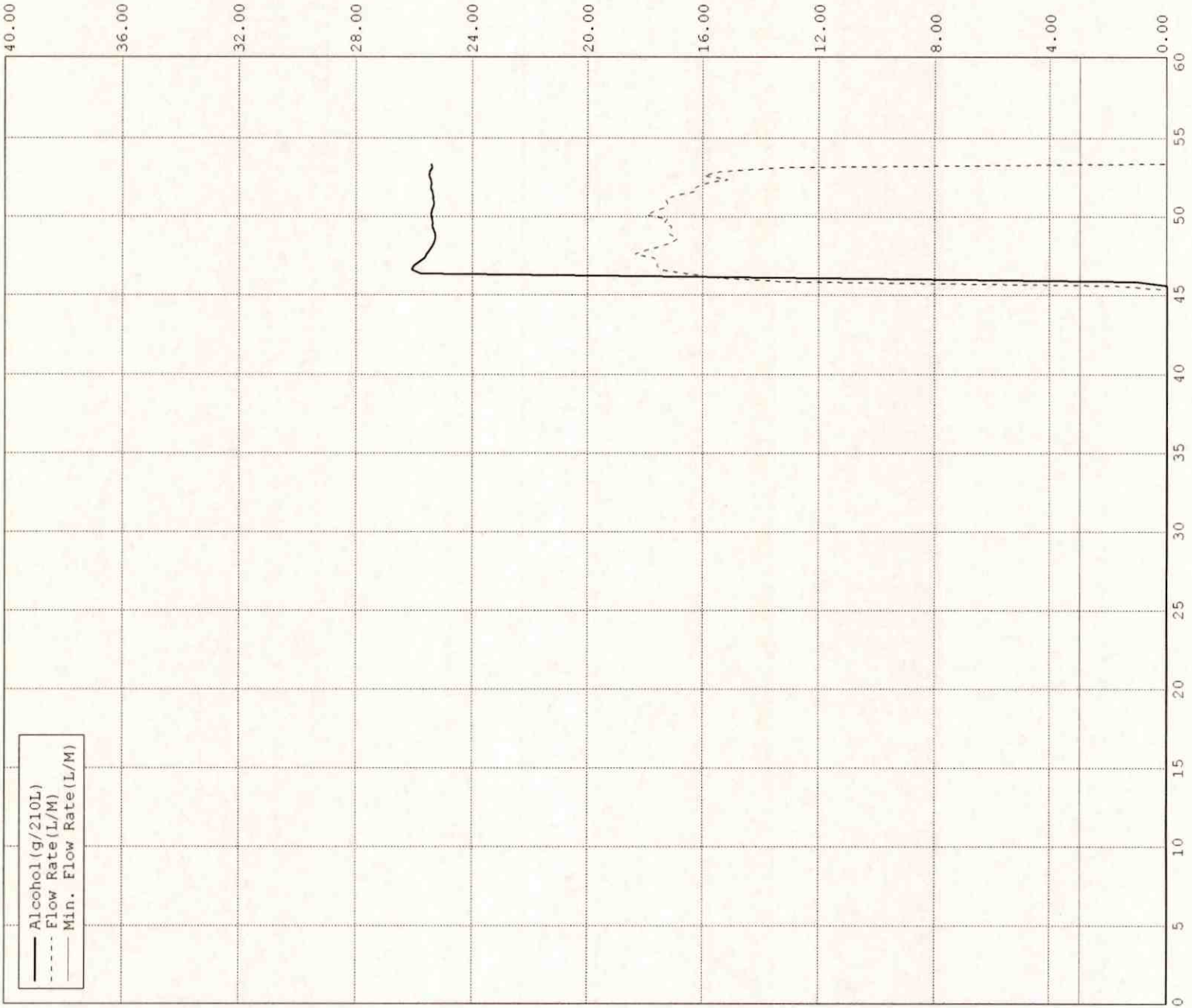
DEPT/AGENCY:
INTERFERENCE - IPA
CASE/REPORT: XXXX
TEST TYPE: TEST

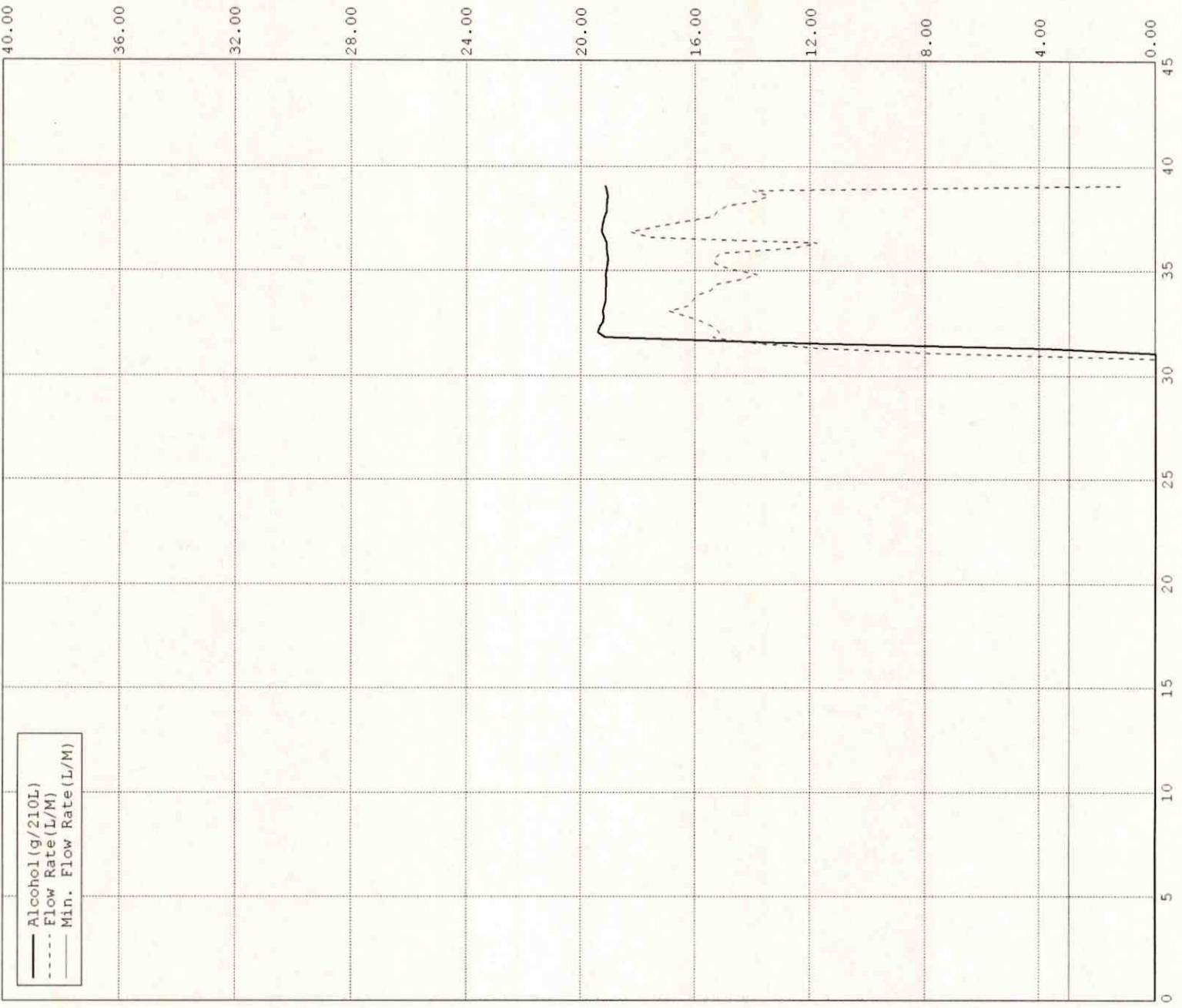
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 12:52
BLANK TEST 0.000 12:52
INTERNAL STANDARD VERIFIED 12:53
Xg = 0.091 (2.36%)
EXTERNAL STANDARD 0.080 12:53
X[1] = 0.0797 (0.0016) (0.0023)
BLANK TEST 0.000 12:54
SUBJECT SAMPLE XXX 12:55
X[1] = 0.1267 (-0.0277) (0.0019)

Interference Detected

OKG





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100370

 Date: 06/21/2022
 Time: 12:39:43

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

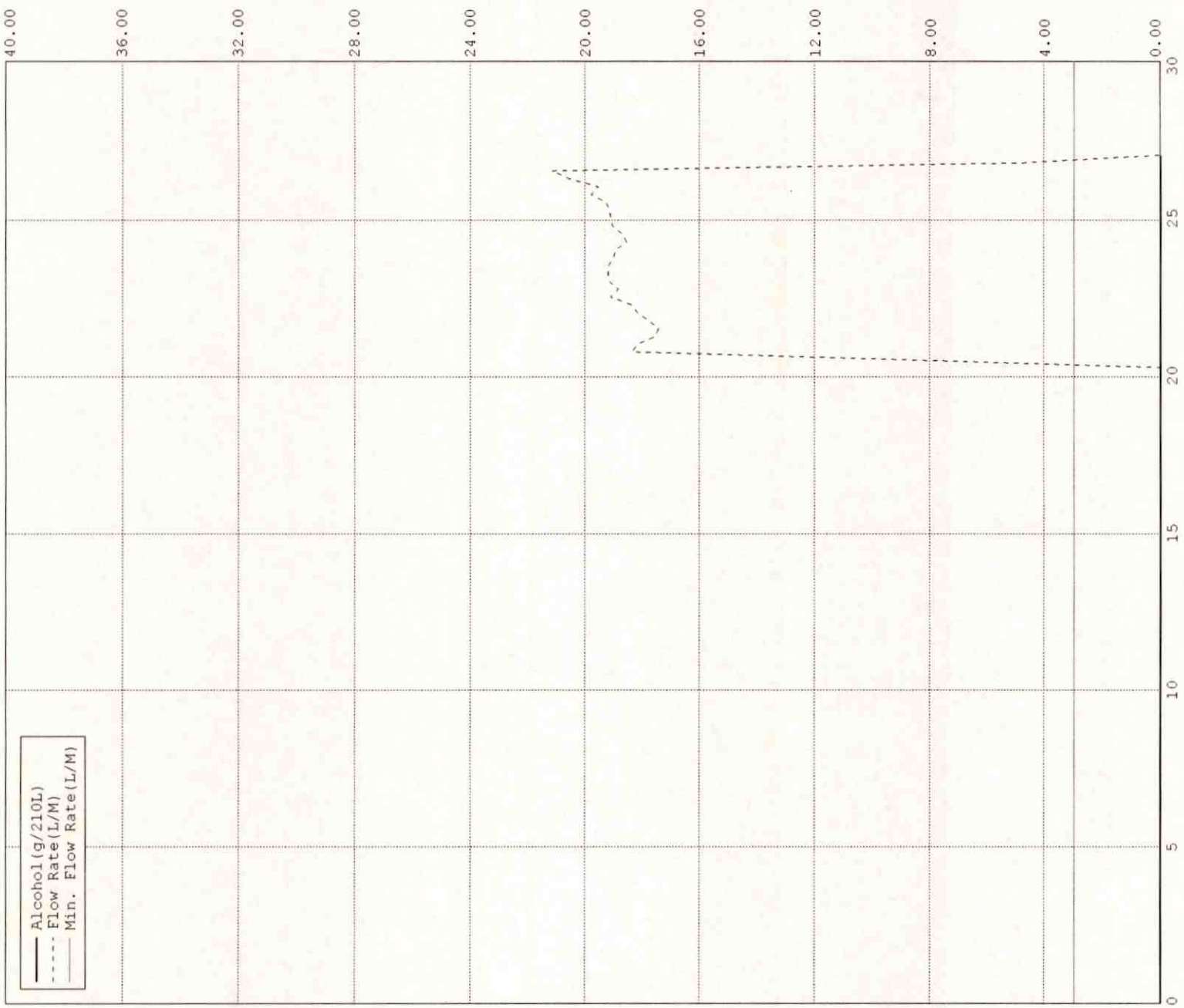
OPERATOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:40
BLANK TEST	0.000	12:40
INTERNAL STANDARD	VERIFIED	12:41
Xq = 0.091 (2.46%)		
EXTERNAL STANDARD	0.079	12:41
X[1] = 0.0790 (0.0013) (0.0026)		
BLANK TEST	0.000	12:42
SUBJECT SAMPLE (Vol=1.99L)	0.095	12:42
X[1] = 0.0957 (0.0002) (0.0008)		
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.079	12:44
X[1] = 0.0791 (0.0013) (0.0012)		
BLANK TEST	0.000	12:45

OKG



— Alcohol (g/210L)
 - - - - Flow Rate (L/M)
 Min. Flow Rate (L/M)

SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100370

 Date: 06/21/2022
 Time: 13:19:16

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 29.87: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:20
BLANK TEST 0.000 13:20
INTERNAL STANDARD VERIFIED 13:20
EXTERNAL STANDARD 0.080 13:20
BLANK TEST 0.000 13:21
SUBJECT SAMPLE (Vol=1.95L) 0.000 13:22
BLANK TEST 0.000 13:23
EXTERNAL STANDARD 0.080 13:23
BLANK TEST 0.000 13:24

CKG