

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100410 Analyst: Carlie Haister Start Date: 10/31/23

- Diagnostic Test (attached)
- Internal Standard value \leq 3.00%
- Adjust voltages, if needed
 - Lamp (2.60 V Maximum)
 - Bias
 - Cooler (2.00 V Maximum)
 - Chopper Frequency
 - Detector Voltage (-0.100V to 0.100V)
- Set RFI Sensitivity
- Adjust internal barometer reading to match NIST-traceable barometer
- Adjust volume setting, if needed (1.50 L +/- 0.10 L)
- Print Technician Screen (attached)
- Print Calibration Factors (attached)
- Minimum Volume Test 1.5 L (1.3L to 1.7L)

As Left Conditions:

Barometric Pressure (in Hg): 29.83 Temperature (C): 21.4 Relative Humidity (%) 23

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-217902</u>	Exp: <u>6/28/24</u>
0.040g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-217904</u>	Exp: <u>6/28/24</u>
0.080g/210L Mnf: <u>Ilmo</u>	Lot: <u>09523080A1</u>	Exp: <u>5/5/25</u>
0.100g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-211003</u>	Exp: <u>4/20/24</u>
0.150g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-134205</u>	Exp: <u>12/8/23</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-217903</u>	Exp: <u>6/28/24</u>

Functional Tests (attached)

- Incomplete
- Invalid
- Maximum Attempts Exceeded
- Radio Frequency Interference (RFI)
- Interference (Volatiles)

Acetone Mnf: _____ Lot: _____ Level: 0.100 Exp: _____

Simulator S/N: _____ Verification Performed?

Isopropanol Mnf: _____ Lot: _____ Level: 0.100 Exp: _____

Simulator S/N: _____ Verification Performed?

Neg. Control Mnf: Lifeloc Lot: 22HP41201 Level: 0.100 Exp: 8/24/24

Simulator S/N: D26267 Verification Performed?

Calibrated External Thermometer:

Thermometer S/N: 210958384 Calibration Due Date: 11/9/23

- Verify stylus is calibrated
- Non-Drinking Subject Test
- Reset Options
- Upload
- Clear Memory
- Remove Tank Prior to Shutdown
- Verification of Calibration (VOC)

Calibration End Date: 10/31/23 - Failed Calibration

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 10/31/2023
Time: 09:39:19

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.67 V PASSED
(1.01 V - 2.35 V)
Cooler Voltage = 1.69 V PASSED
(1.03 V - 2.41 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 521 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.841 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 0.00% (0.00% - 4.00%) PASSED

Calibration Rejected

Technician Screen

DATAMASTER dmt: 100410

Date: 10/31/2023
Time: 9:45 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 46.2°C

Current Barometer 29.8 in
Volume (Ltr) 1.58

Settings
Lamp: 1.73 V
Bias: 80 V
Cooler: 1.86 V
Chopper: 522 Hz

Voltages (V)
Flow: 1.05 V
Detector: 0.055 V

Calibration Rejected

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 06/01/2011
Time: 09:04:36

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: REPC0100
BOTTLE #: 10003
EXPIRATION: 09/08/2012

Ca	=	0.1000		
CAL	=	0.973587	0.800	<= CAL < 1.200
b1	=	0.0004	0.0000	<= b1 < 0.0040
b2	=	0.0066	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0869	0.0500	<= Xq < 0.2000
a21	=	1.207265	1.050	<= a21 < 1.300
a31	=	0.452869	0.300	<= a31 < 0.800

Calibration Rejected

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 10/31/2023
Time: 09:47:40

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

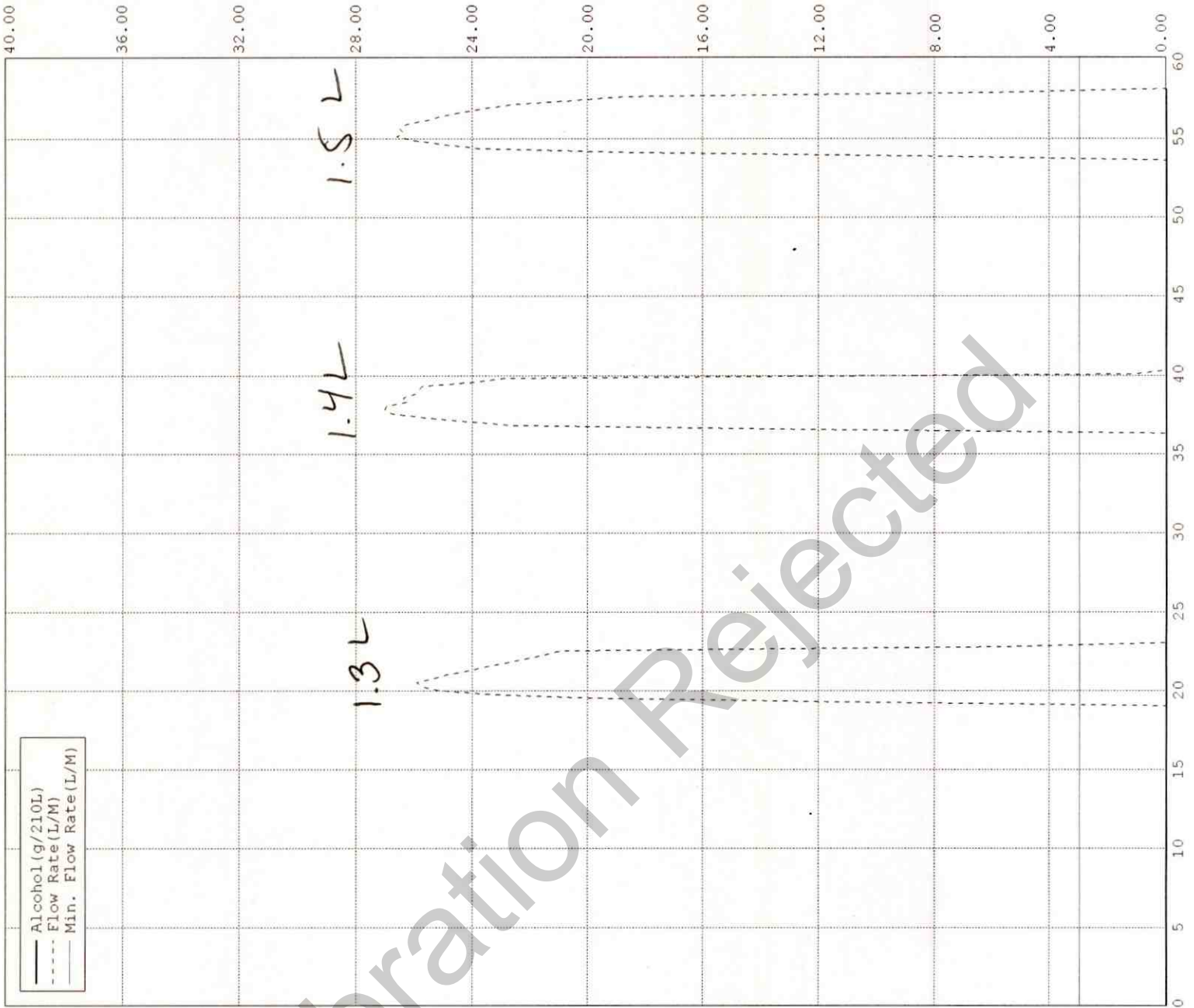
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	09:48
BLANK TEST	0.000	09:48
INTERNAL STANDARD	VERIFIED	09:48
INTERNAL STANDARD	0.079	09:49
BLANK TEST	0.000	09:50
SUBJECT SAMPLE (Vol=1.56L)	0.000	09:51
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.079	09:52
BLANK TEST	0.000	09:53

CK6



LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER dmt: 100410

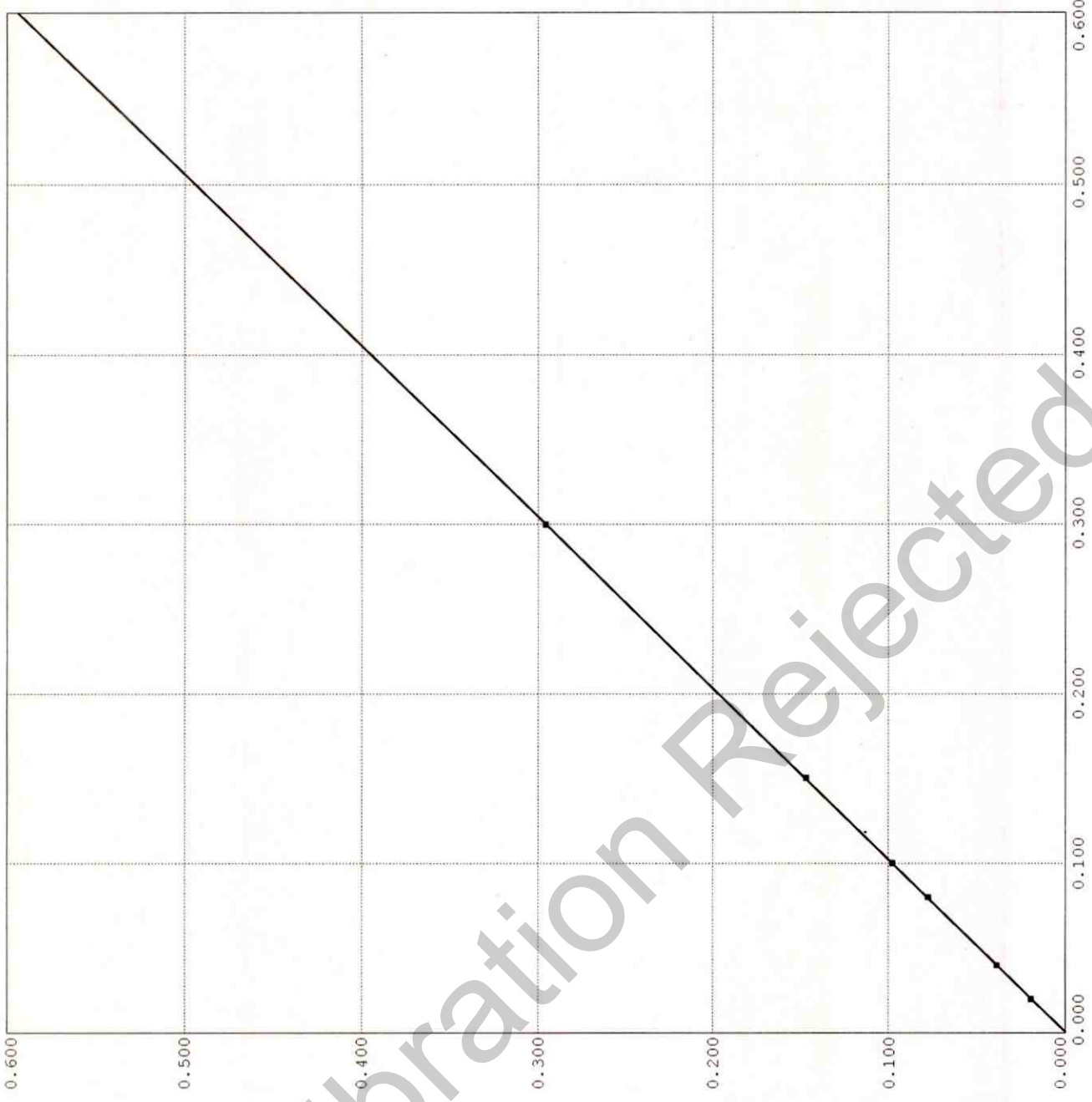
Date: 10/31/2023
 Time: 12:33:02

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0396	0.0005
0.080	0.0784	0.0005
0.100	0.0986	0.0005
0.150	0.1476	0.0005
0.299	0.2964	0.0005

SLOPE = 0.991075
 R² = 0.999973

100410 2023.10.31 Calibration - Rejected



OK

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

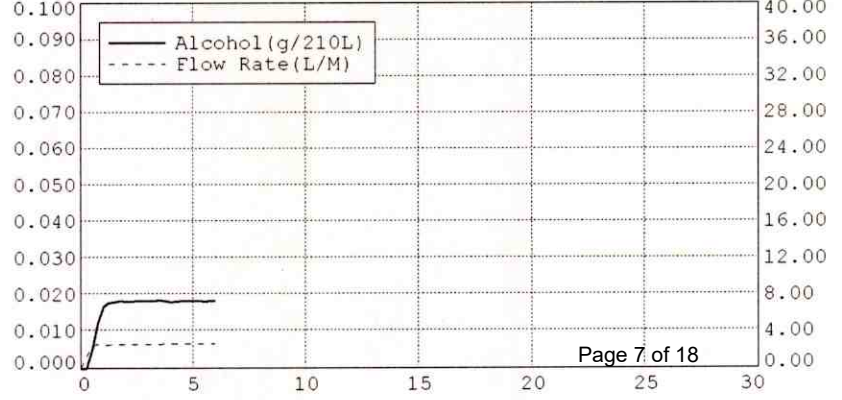
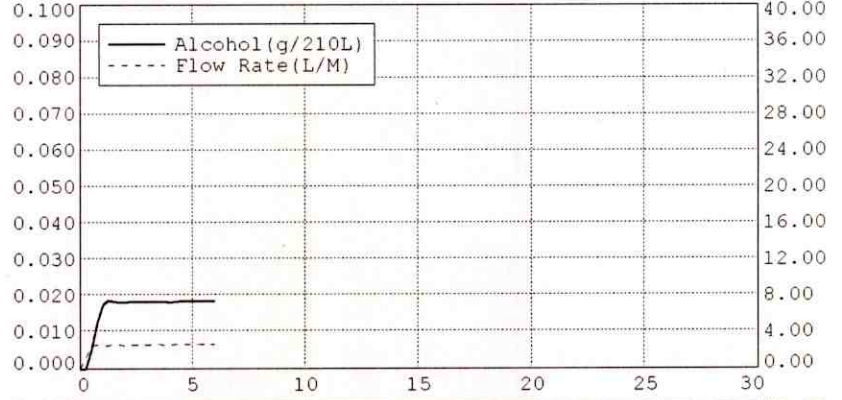
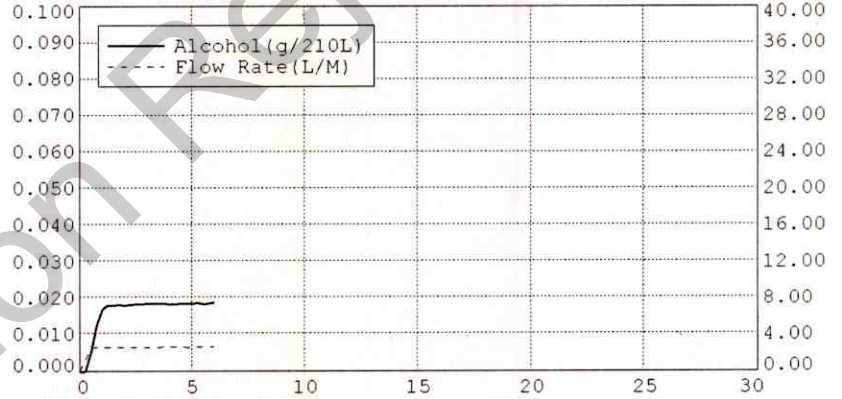
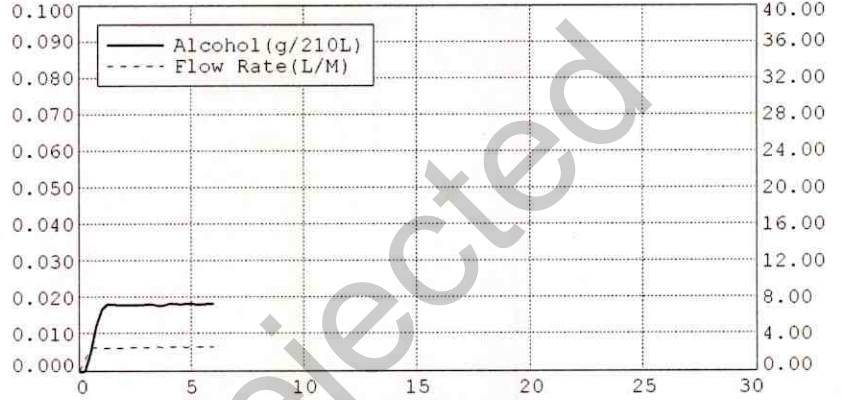
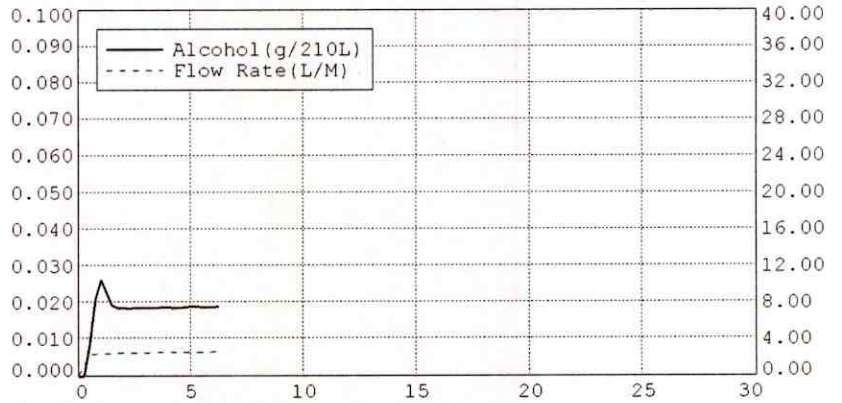
Date: 10/31/2023
 Time: 12:33:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.85: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 829 psi

BLANK TEST	0.000	12:34
INTERNAL STANDARD	VERIFIED	12:34
EXTERNAL STANDARD	0.020	12:35
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.020	12:36
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.020	12:37
BLANK TEST	0.000	12:38
EXTERNAL STANDARD	0.020	12:38
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.020	12:39
BLANK TEST	0.000	12:40

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

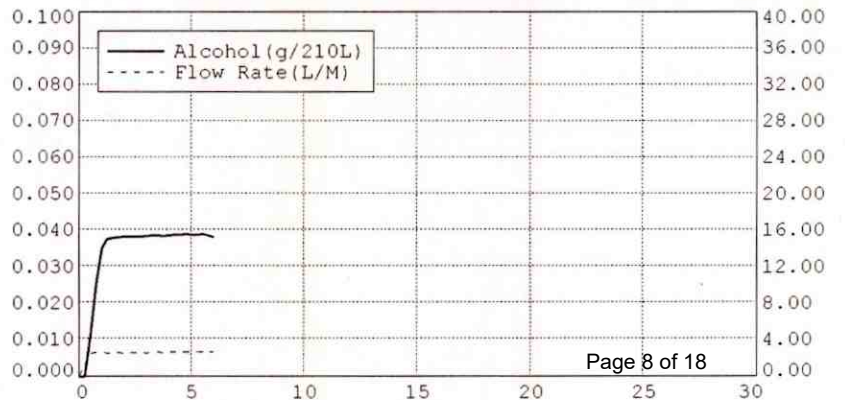
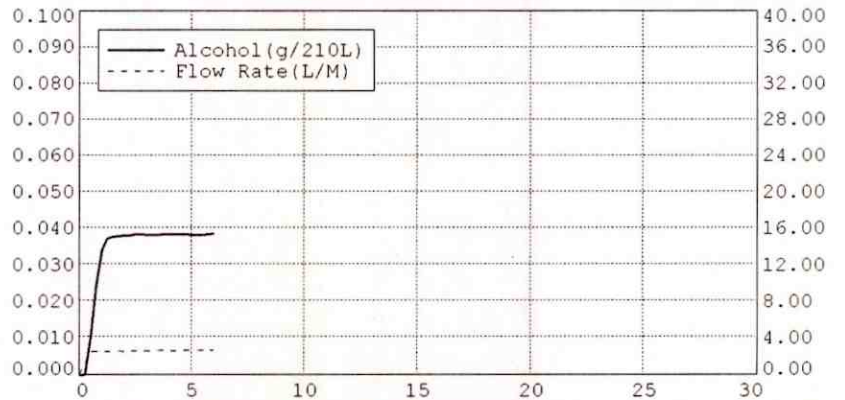
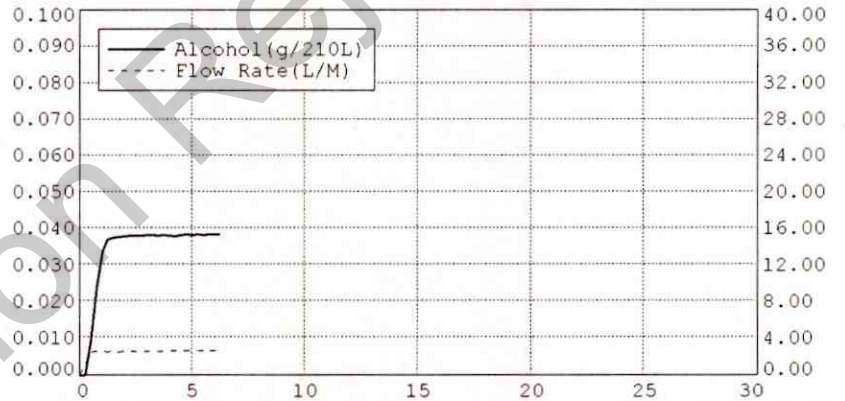
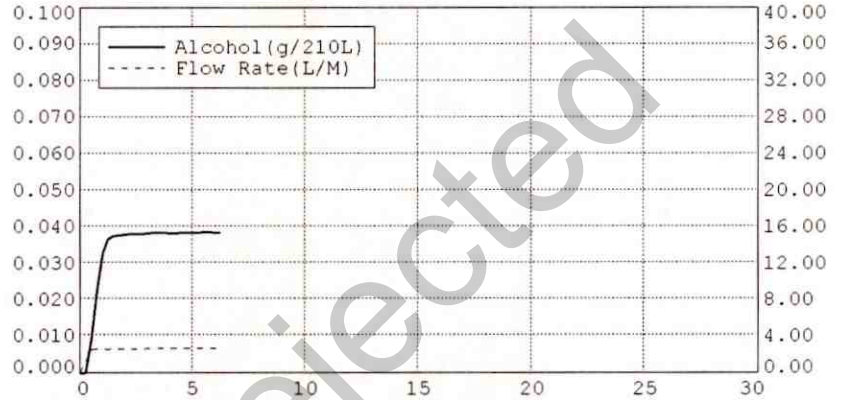
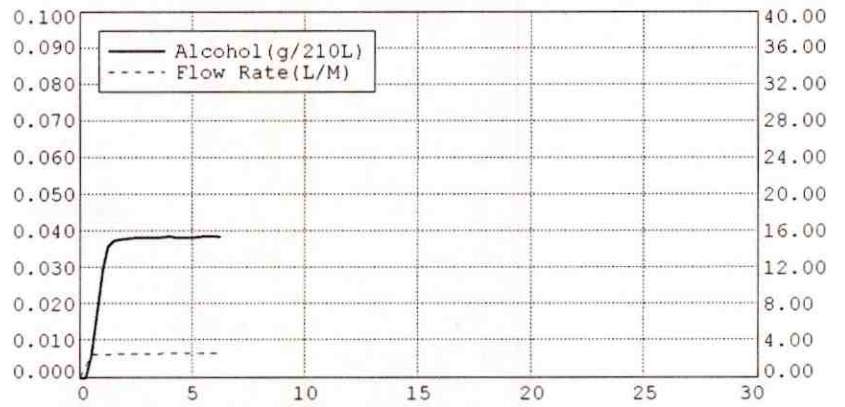
Date: 10/31/2023
 Time: 12:42:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.85: 0.040
 LOT #: AG217904
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 885 psi

BLANK TEST	0.000	12:43
INTERNAL STANDARD	VERIFIED	12:44
EXTERNAL STANDARD	0.040	12:44
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.040	12:45
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.039	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.039	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.040	12:48
BLANK TEST	0.000	12:49

Average = 0.0396
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100410

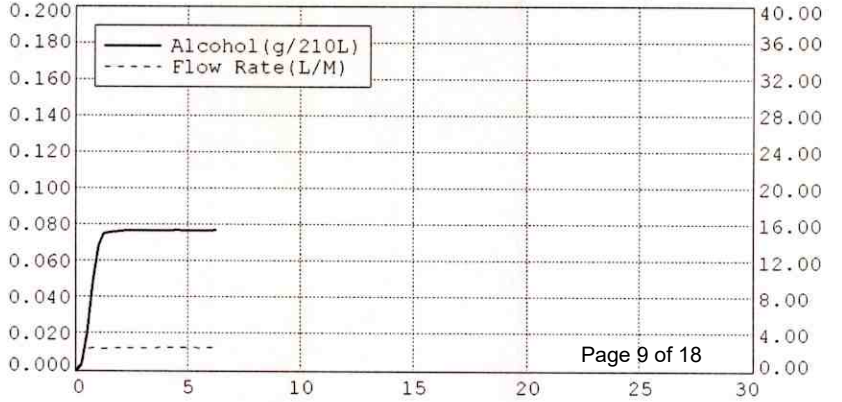
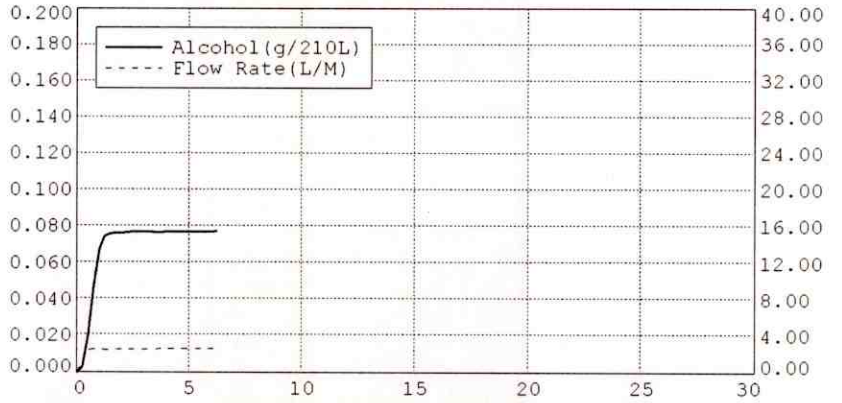
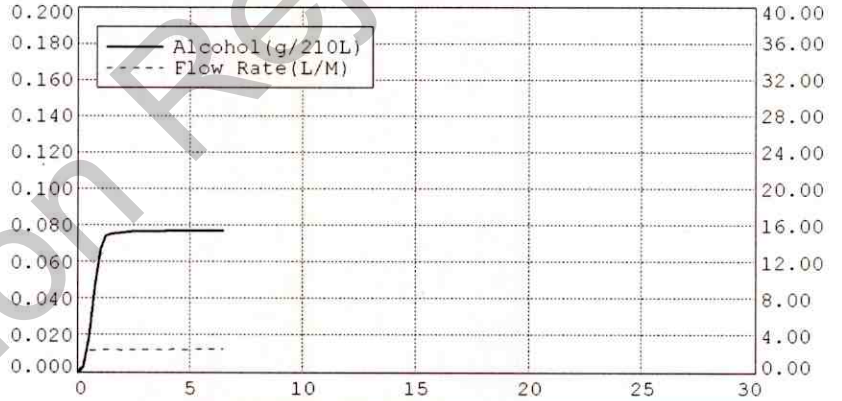
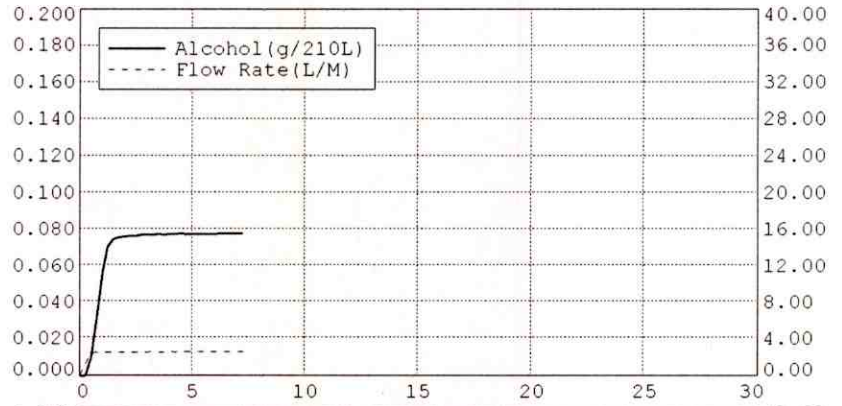
Date: 10/31/2023
Time: 12:50:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025
TANK PRESSURE: 718 psi

BLANK TEST	0.000	12:51
INTERNAL STANDARD	VERIFIED	12:51
EXTERNAL STANDARD	0.079	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.079	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.078	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.078	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.078	12:56
BLANK TEST	0.000	12:57

Average = 0.0784
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100410

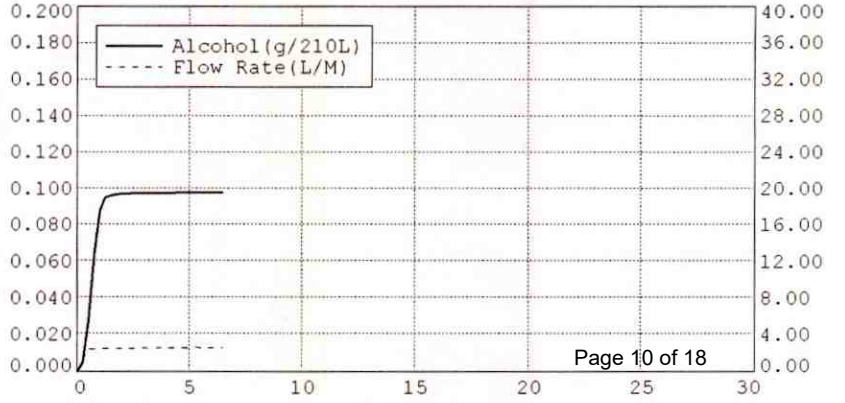
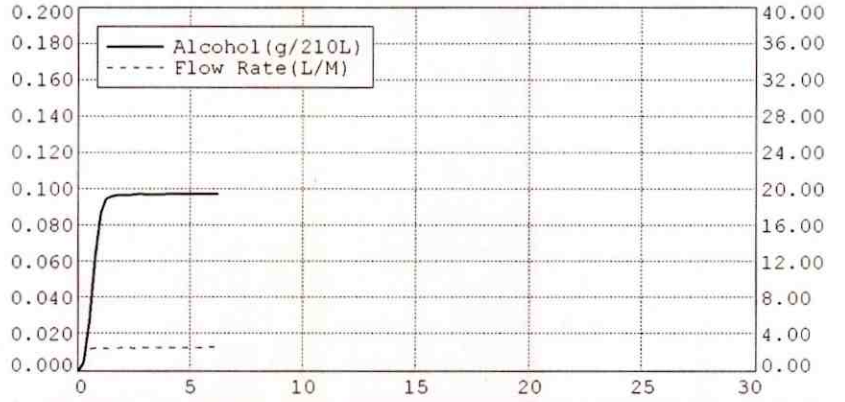
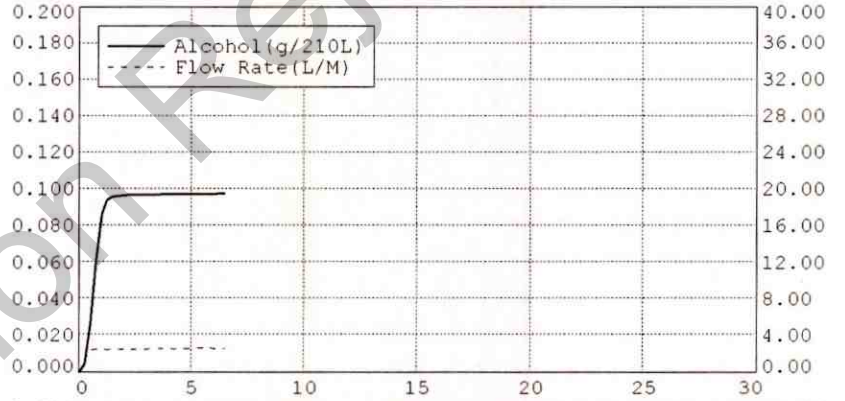
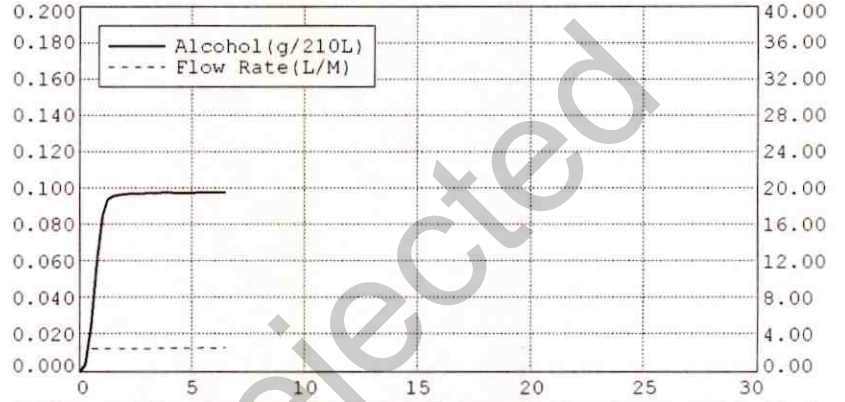
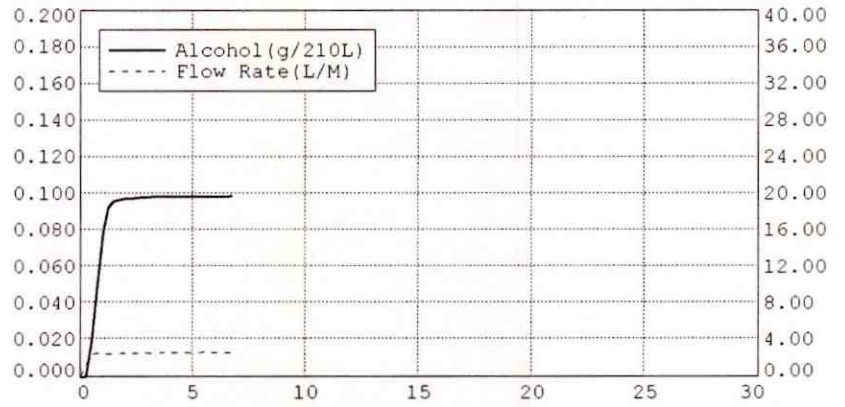
Date: 10/31/2023
Time: 12:58:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.85: 0.100
LOT #: AG211003
EXPIRATION: 04/20/2024
TANK PRESSURE: 817 psi

BLANK TEST	0.000	12:59
INTERNAL STANDARD	VERIFIED	12:59
EXTERNAL STANDARD	0.099	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.099	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.098	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.098	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.099	13:04
BLANK TEST	0.000	13:05

Average = 0.0986
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100410

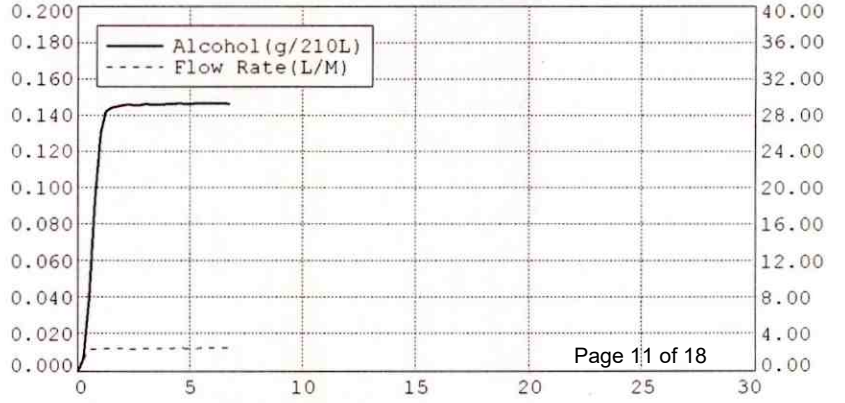
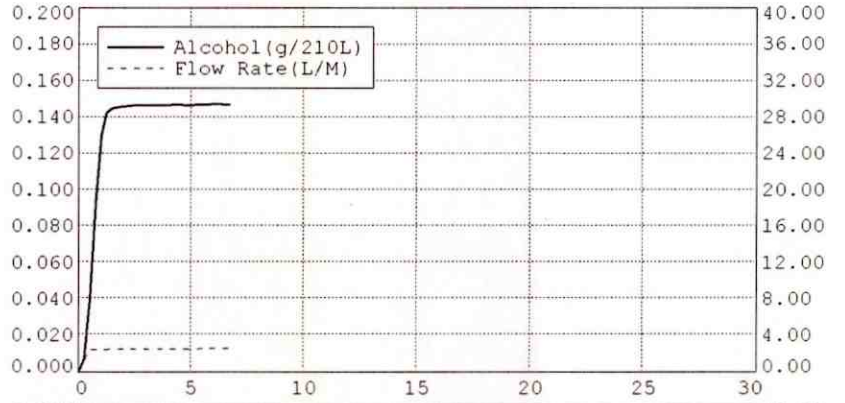
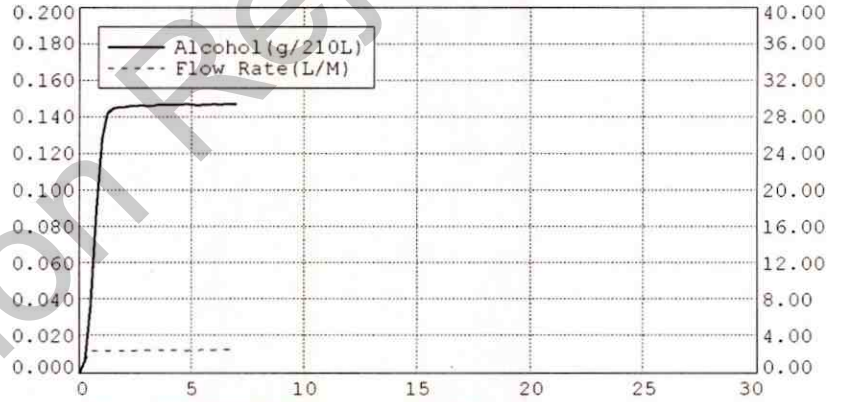
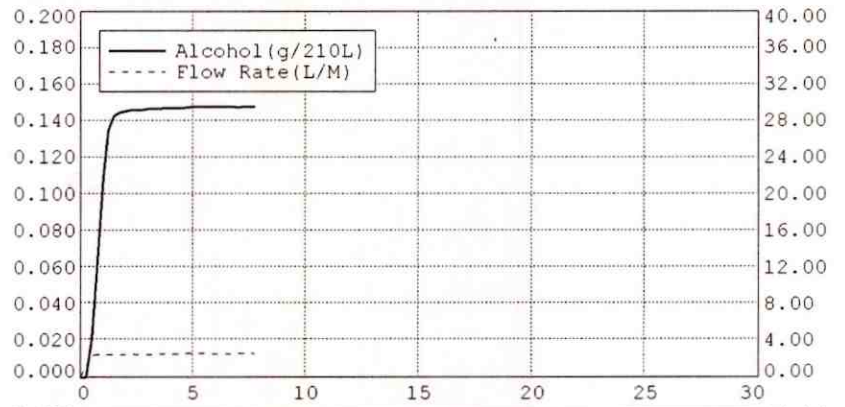
Date: 10/31/2023
Time: 13:06:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.150
TARGET AT 29.85: 0.150
LOT #: AG134205
EXPIRATION: 12/08/2023
TANK PRESSURE: 712 psi

BLANK TEST	0.000	13:11
INTERNAL STANDARD	VERIFIED	13:11
EXTERNAL STANDARD	0.148	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.148	13:13
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.148	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.147	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.147	13:16
BLANK TEST	0.000	13:17

Average = 0.1476
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100410

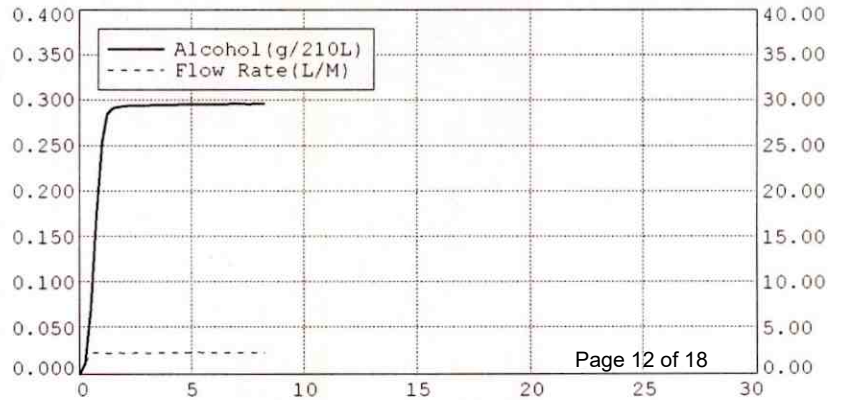
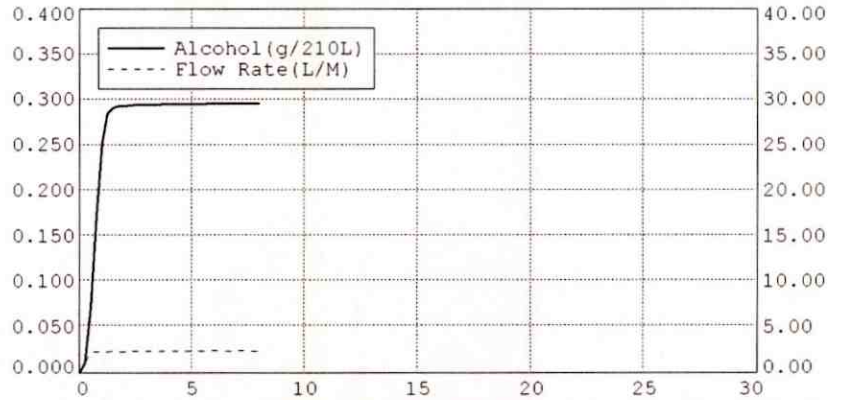
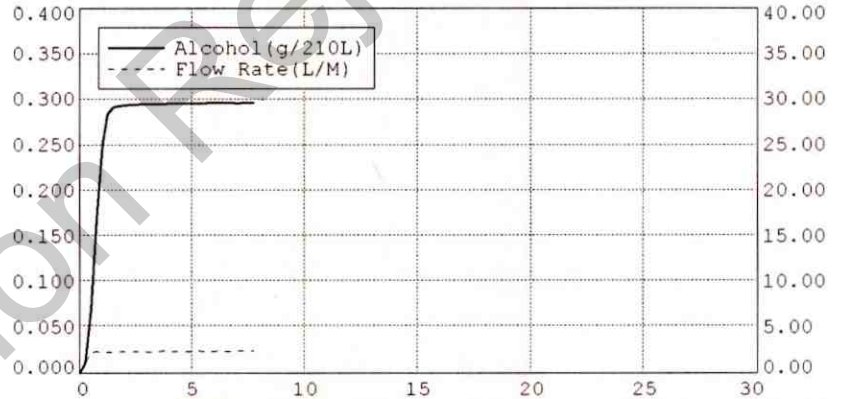
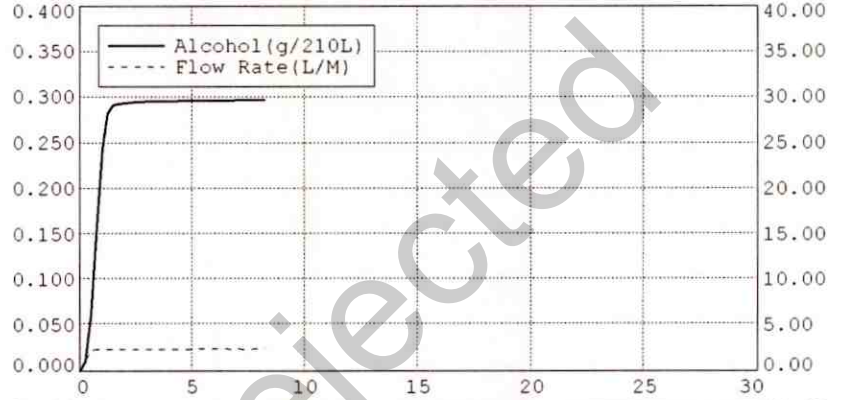
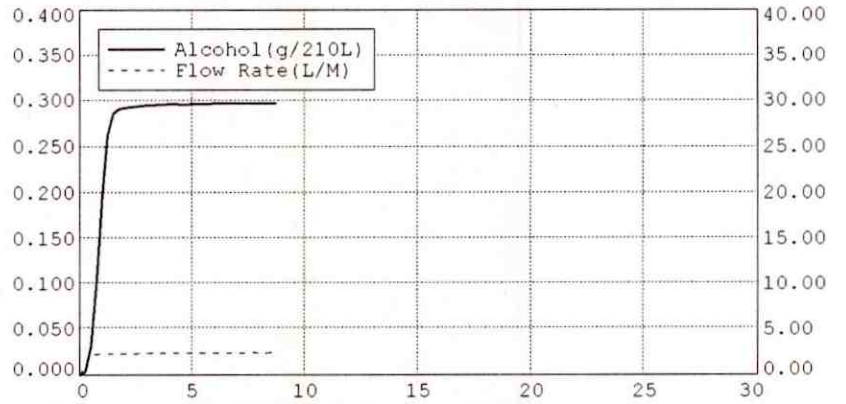
Date: 10/31/2023
Time: 13:17:57

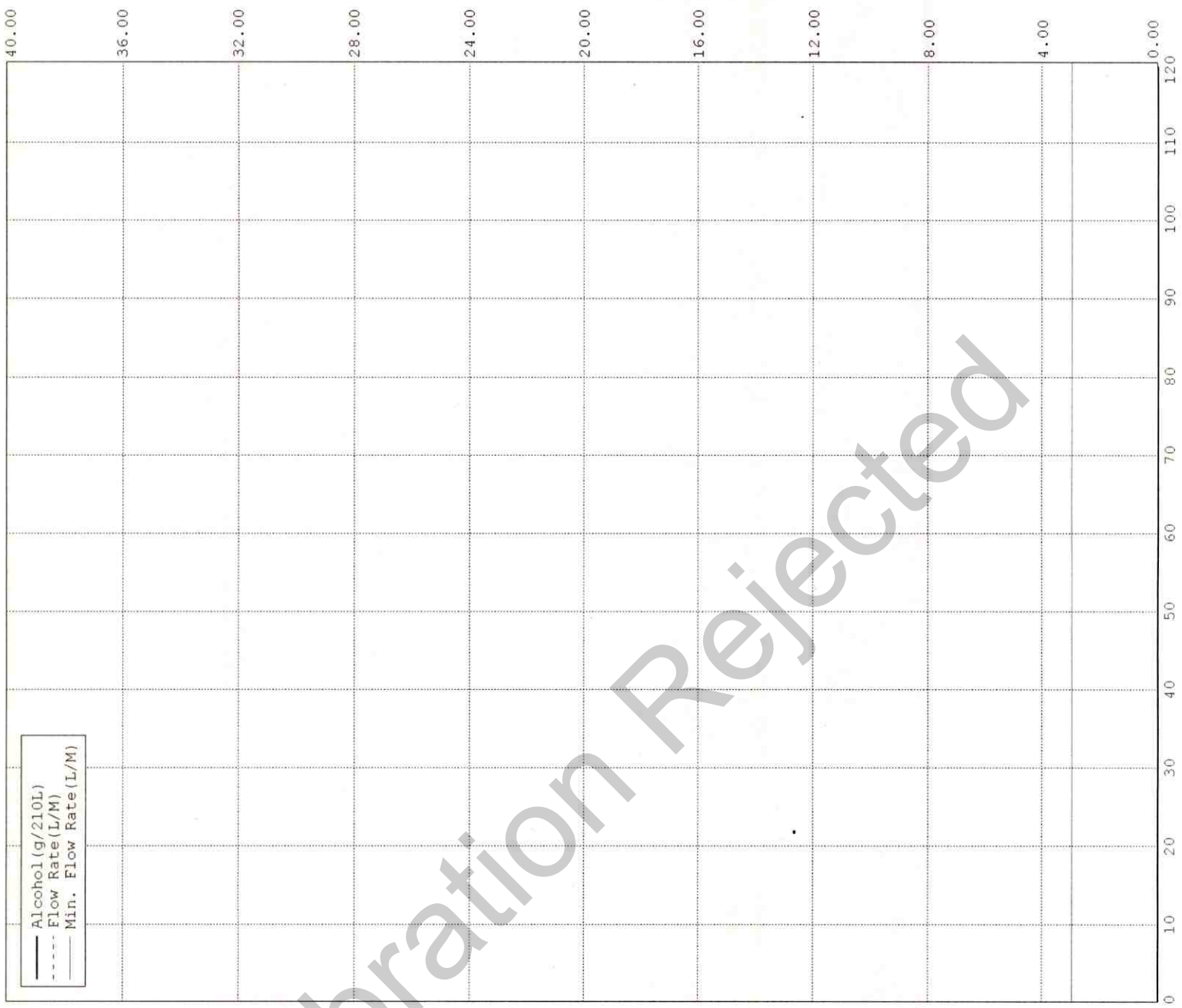
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.84: 0.299
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 185 psi

BLANK TEST	0.000	13:19
INTERNAL STANDARD	VERIFIED	13:19
EXTERNAL STANDARD	0.297	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.297	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.296	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.296	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.296	13:24
BLANK TEST	0.000	13:25

Average = 0.2964
Std Dev = 0.0005





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100410

 Date: 10/31/2023
 Time: 13:33:41

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 29.83: 0.080
 LOT #: 09523080A1
 EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	13:34
BLANK TEST	0.000	13:34
INTERNAL STANDARD	VERIFIED	13:34
EXTERNAL STANDARD	0.080	13:35
BLANK TEST	0.000	13:36
SUBJECT SAMPLE	INCOMPLETE	13:38

CVG

100410 2023.10.31 Calibration - Rejected

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 10/31/2023
Time: 13:40:09

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

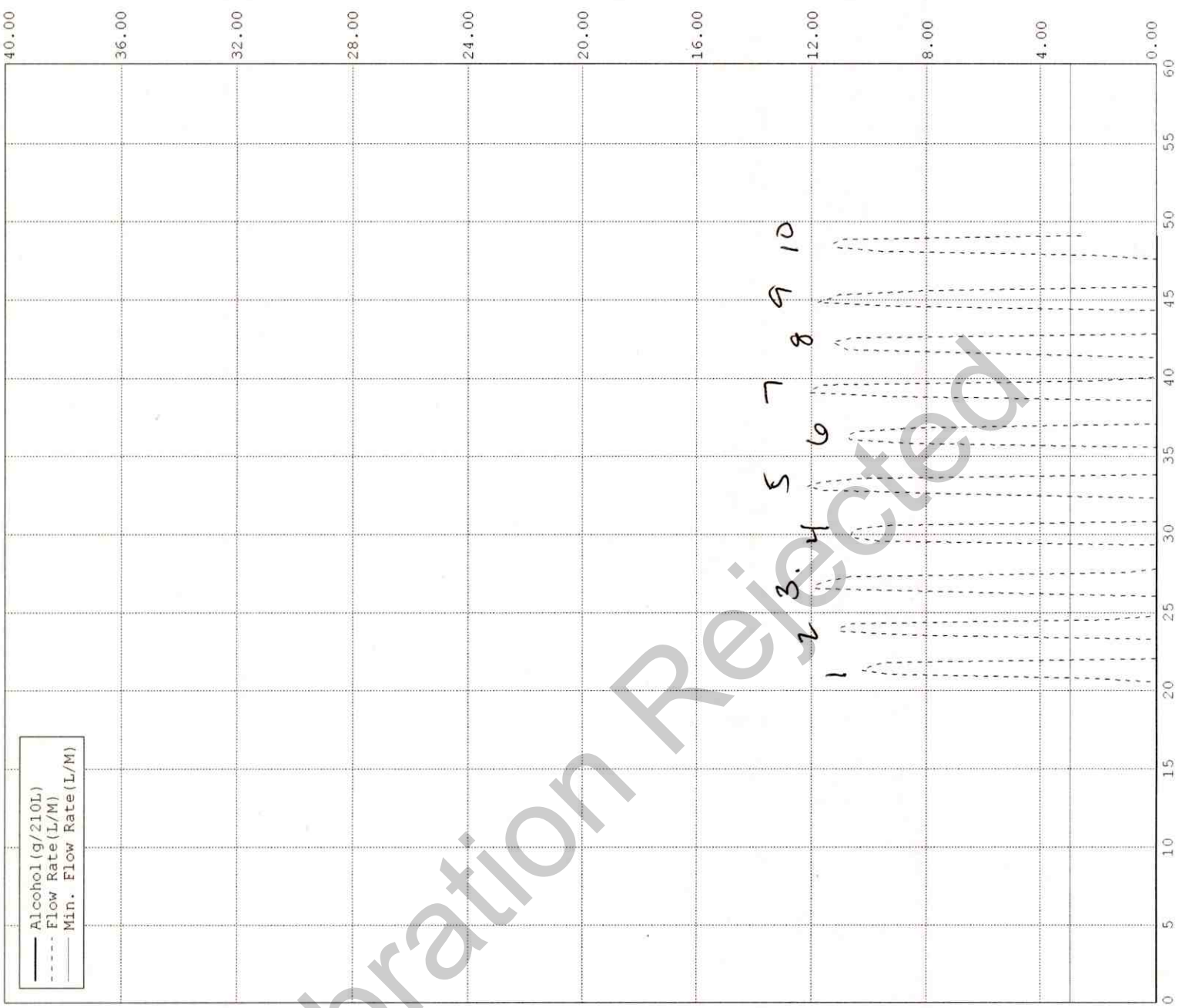
DEPT/AGENCY:
MAXIMUM ATTEMPTS EXCEEDED
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK PASSED 13:41
BLANK TEST 0.000 13:41
INTERNAL STANDARD VERIFIED 13:41
EXTERNAL STANDARD 0.079 13:41
BLANK TEST 0.000 13:42
SUBJECT SAMPLE XXX 13:43

Maximum Attempts Exceeded

CKG



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100410

Date: 10/31/2023

Time: 13:47:28

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 29.83: 0.080

LOT #: 09523080A1

EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 13:50

0.000 13:50

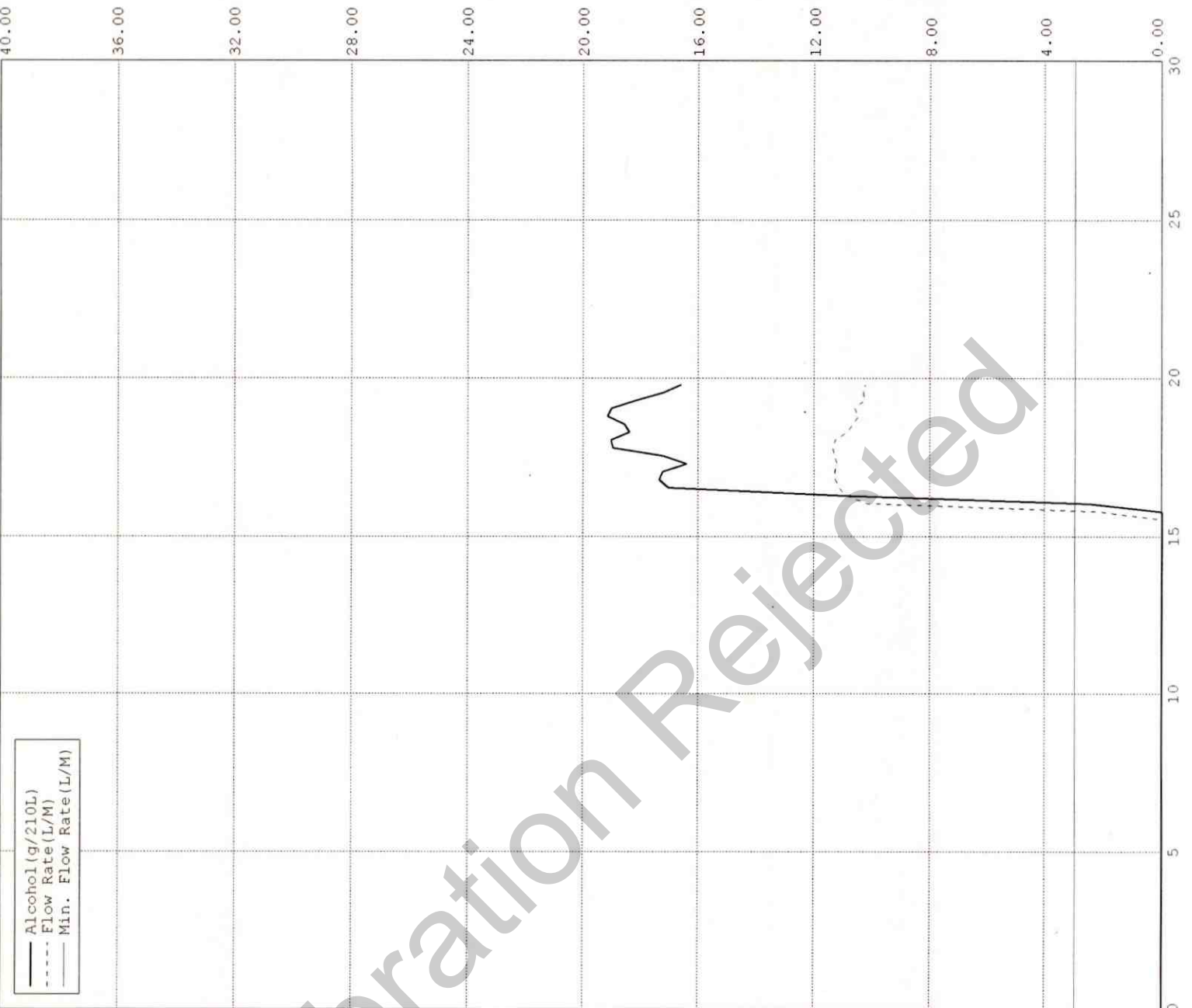
VERIFIED 13:50

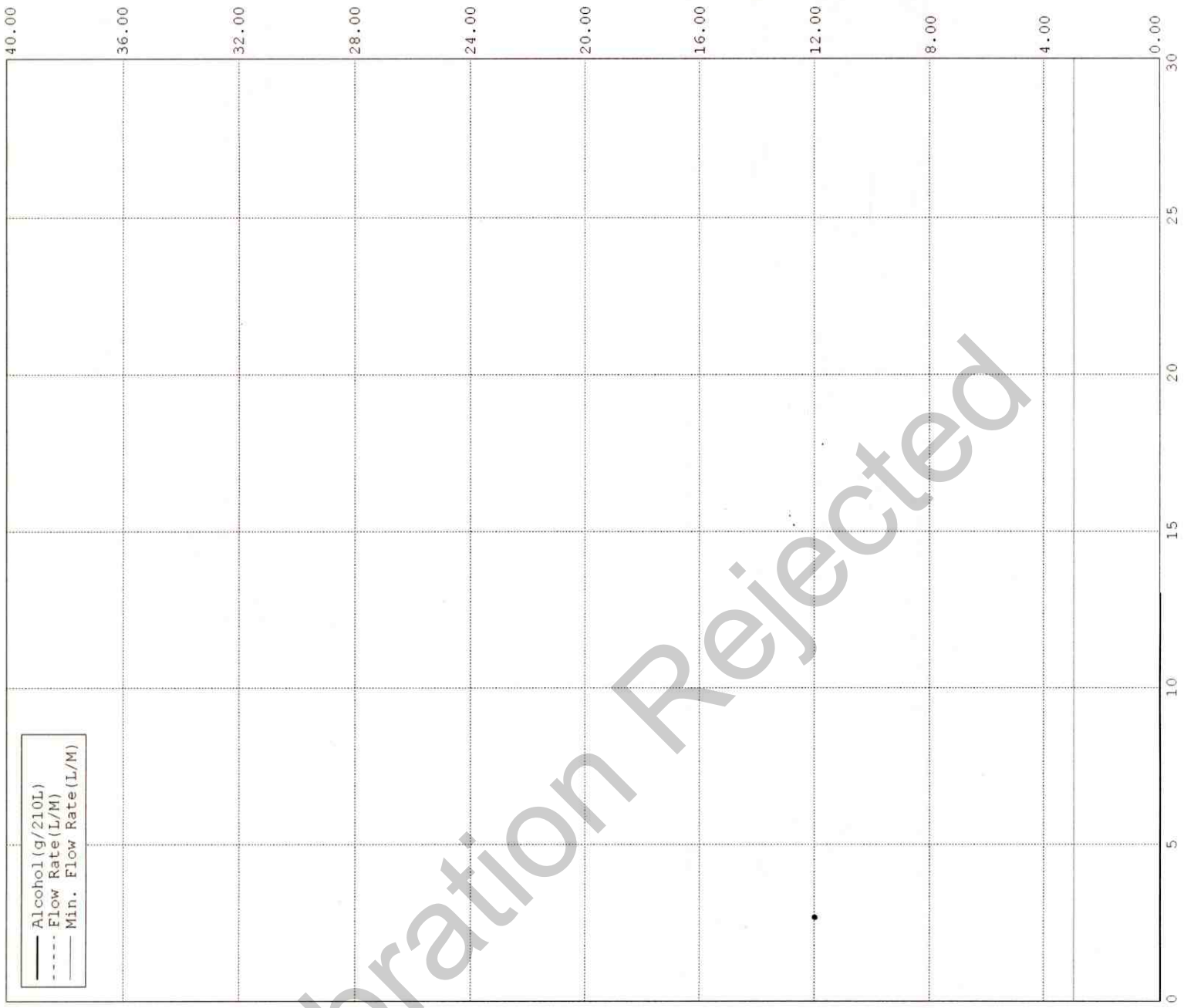
0.079 13:50

0.000 13:51

INVALID 13:51

CVE





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

Date: 10/31/2023
 Time: 13:58:31

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 29.83: 0.080
 LOT #: 09523080A1
 EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK PASSED 13:59
 BLANK TEST 0.000 13:59
 INTERNAL STANDARD VERIFIED 14:00
 EXTERNAL STANDARD 0.079 14:00
 BLANK TEST 0.000 14:01

RFI DETECTED

OK

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 10/31/2023
Time: 14:25:01

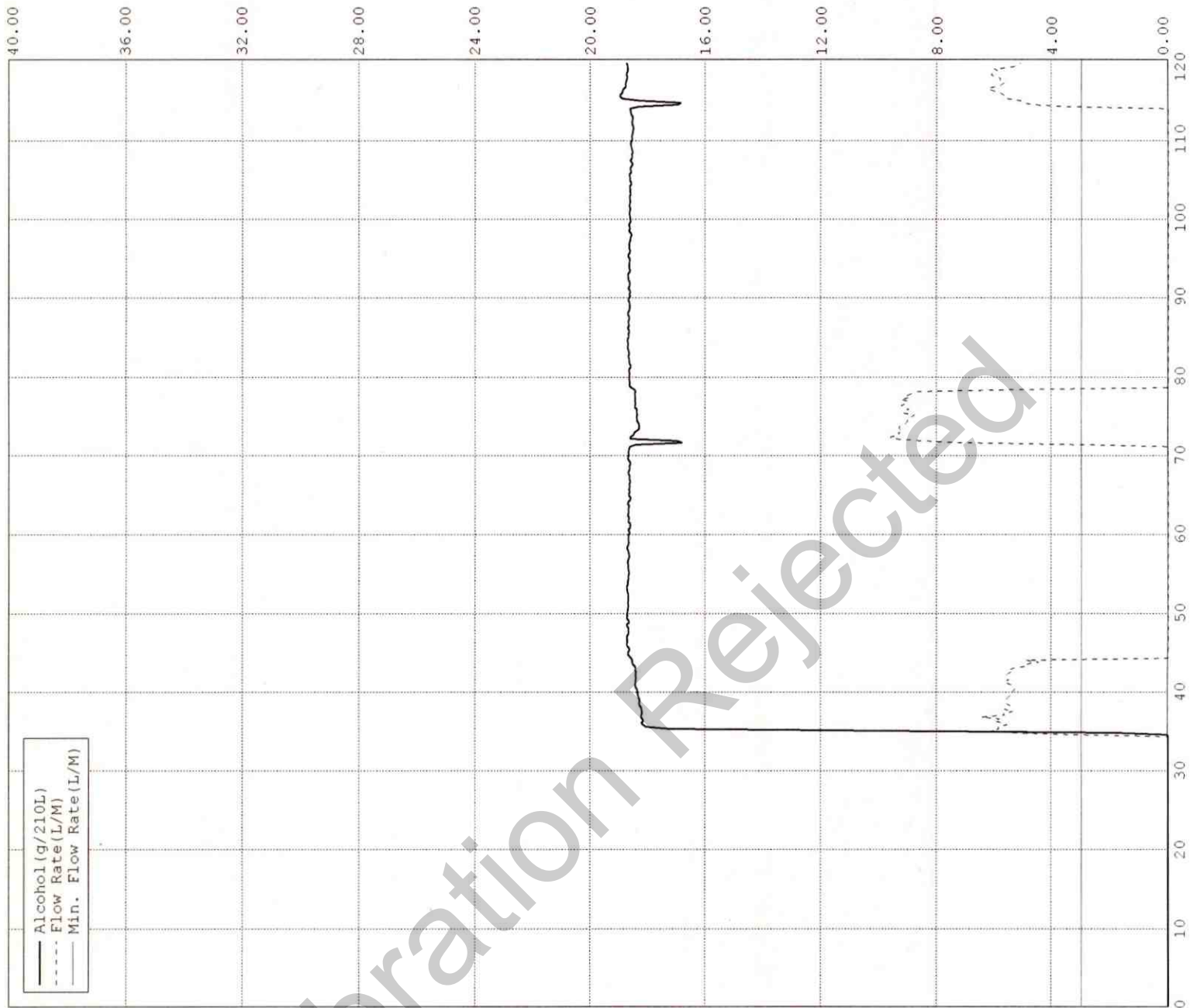
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

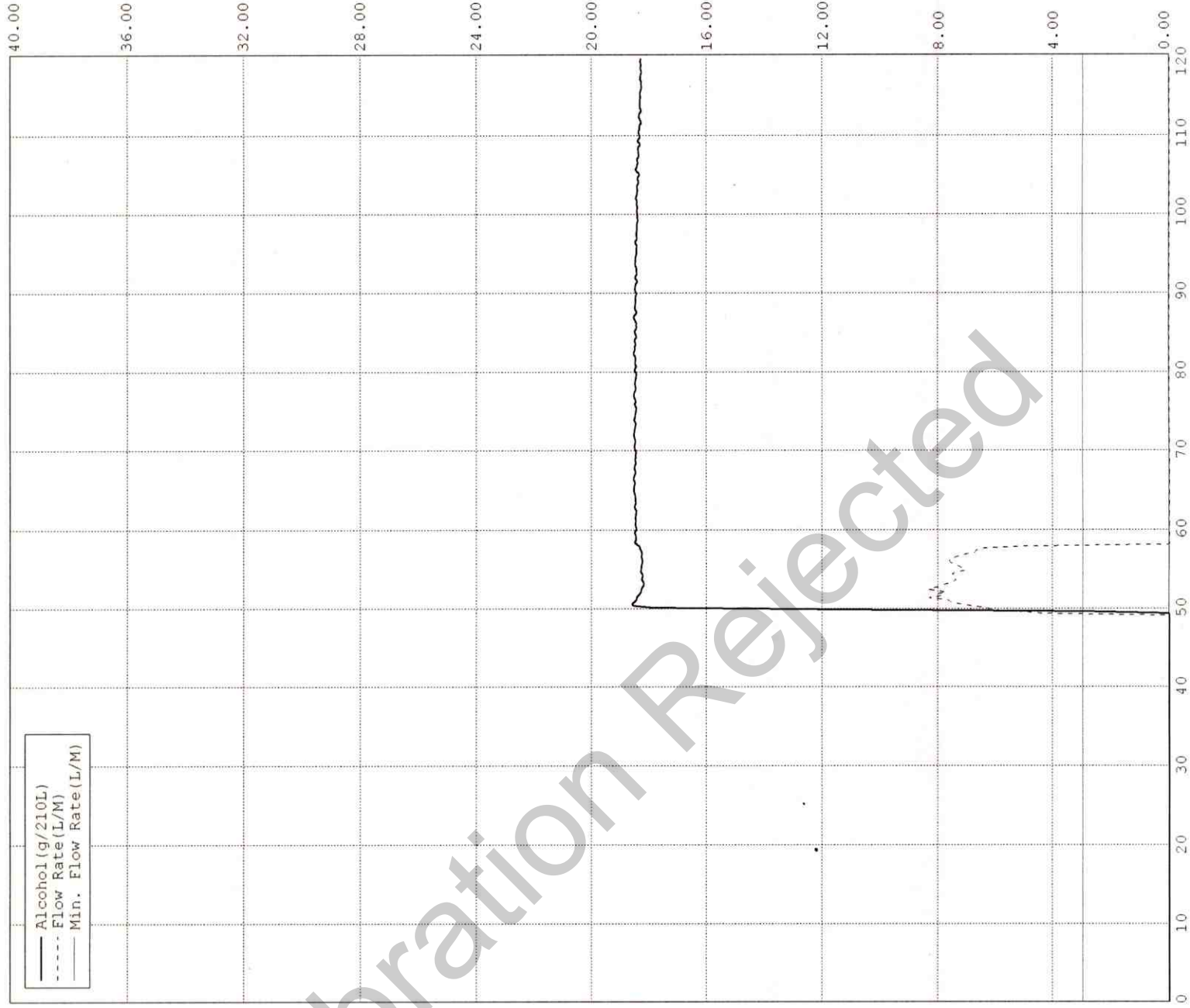
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	14:26
BLANK TEST	0.000	14:26
INTERNAL STANDARD	VERIFIED	14:26
EXTERNAL STANDARD	0.078	14:26
BLANK TEST	0.000	14:27
SUBJECT SAMPLE	INCOMPLETE	14:29





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100410

 Date: 10/31/2023
 Time: 14:18:07

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 29.83: 0.080
 LOT #: 09523080A1
 EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	14:19
BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:19
INTERNAL STANDARD	0.078	14:19
BLANK TEST	0.000	14:20
SUBJECT SAMPLE	INCOMPLETE	14:22

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100410 2023.10.31 Calibration - Rejected