

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100387 Analyst: Carlie Glaister Start Date: 2/25/22
Tatiana Lee

- Diagnostic Test (attached)
- Adjust voltages, if needed
 - Lamp (2.6V Maximum)
 - Bias
 - Cooler (2.0V Maximum)
 - Chopper Frequency
 - Detector Voltage (-0.100V to 0.100V)
- Internal Standard value \leq 3.00%
- 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:	<u>Airgas</u>	Lot:	<u>At100401</u>	Exp:	<u>04/04/2023</u>
0.040g/210L Mnf:	<u>Airgas</u>	Lot:	<u>At111710</u>	Exp:	<u>04/27/2023</u>
0.080g/210L Mnf:	<u>Airgas</u>	Lot:	<u>At113402</u>	Exp:	<u>05/14/2023</u>
0.100g/210L Mnf:	<u>Airgas</u>	Lot:	<u>At108404</u>	Exp:	<u>03/25/2023</u>
0.200g/210L Mnf:	<u>tuth</u>	Lot:	<u>20510</u>	Exp:	<u>12/03/2022</u>
Simulator S/N:	<u>DK4161</u>	Date Calibrated:	<u>06/10/2021</u>	<u>06/16/2021</u>	
0.300g/210L Mnf:	<u>tuth</u>	Lot:	<u>21030</u>	Exp:	<u>02/02/2023</u>
Simulator S/N:	<u>SD1202</u>	Date Calibrated:	<u>06/15/2021</u>		

Functional Tests (attached)

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

Acetone Mnf:	<u>Lifeloc</u>	Lot:	<u>21DP41158</u>	Level:	<u>0.100</u>	Exp:	<u>04/29/2023</u>
Simulator S/N:	<u>SD1177</u>	Date Calibrated:	<u>06/15/2021</u>	<u>06/15/2021</u>			
Isopropanol Mnf:	<u>Lifeloc</u>	Lot:	<u>21DP41158</u>	Level:	<u>0.100</u>	Exp:	<u>04/29/2023</u>
Simulator S/N:	<u>SD1198</u>	Date Calibrated:	<u>06/15/2021</u>				
Neg. Control Mnf:	<u>Lifeloc</u>	Lot:	<u>21KP41172</u>	Level:	<u>0.100</u>	Exp:	<u>11/09/2023</u>
Simulator S/N:	<u>SD1088</u>	Date Calibrated:	<u>06/15/2021</u>				

TAL 03/01/2022
CKG 03/01/2022

- 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: 2/25/2022

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 09:14:54

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.70 V PASSED
(1.01 V - 2.37 V)
Cooler Voltage = 1.64 V PASSED
(1.03 V - 2.39 V)
Bias Voltage = 80 V PASSED
(47 V - 111 V)
Chopper Freq = 544 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.697 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 = 0.100 1.61% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 9:32 AM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 47.9°C

Current Barometer 29.3 in
Volume (Ltr) 1.49

Settings

Lamp: 1.75 V
Bias: 80 V
Cooler: 1.64 V
Chopper: 543 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.011 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 09/18/2012
Time: 12:25:22

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 0.972401 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0054 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0980 0.0500 <= Xq < 0.2000
a21 = 1.168421 1.050 <= a21 < 1.300
a31 = 0.471464 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 09:52:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

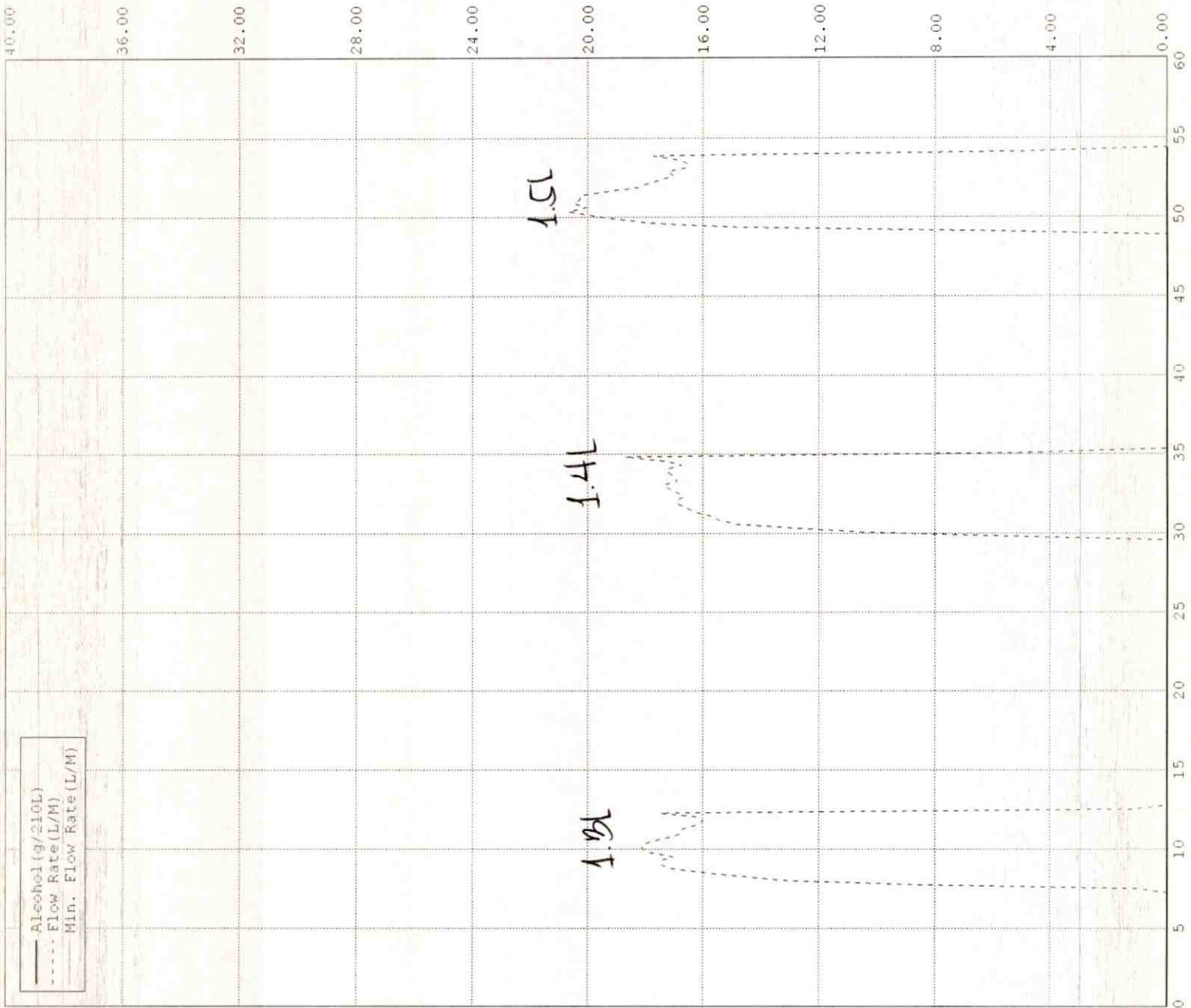
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	09:53
BLANK TEST	0.000	09:53
INTERNAL STANDARD	VERIFIED	09:53
EXTERNAL STANDARD	0.077	09:53
BLANK TEST	0.000	09:54
SUBJECT SAMPLE (Vol=1.50L)	0.000	09:55
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.078	09:56
BLANK TEST	0.000	09:57

CKG 2/25/2022



LINEARITY CHECK

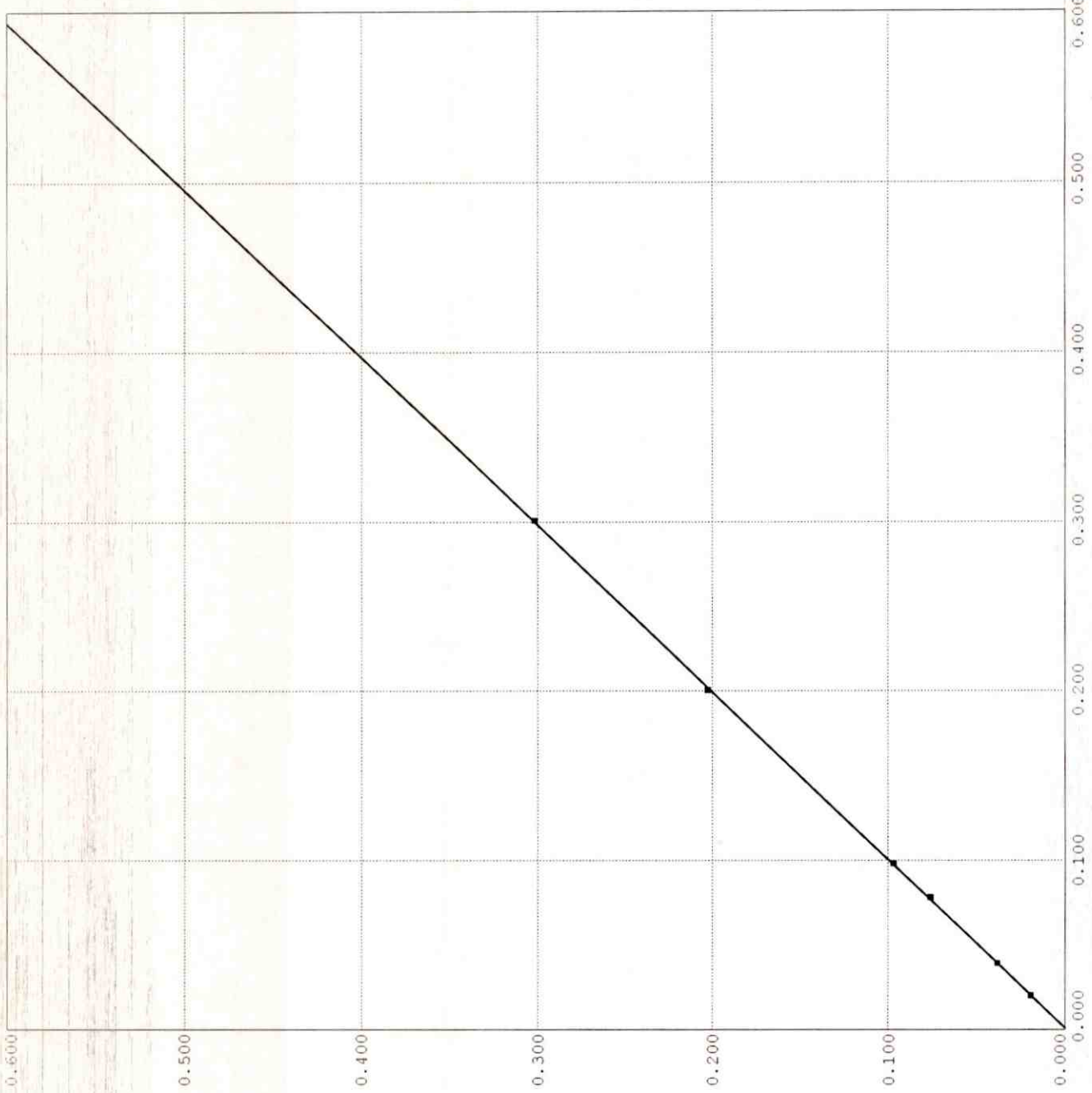
Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 10:08:04

SUPERVISOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0390	0.0000
0.078	0.0770	0.0000
0.098	0.0978	0.0004
0.200	0.2034	0.0005
0.300	0.3024	0.0009

SLOPE = 1.012834
R² = 0.999909



CKG

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

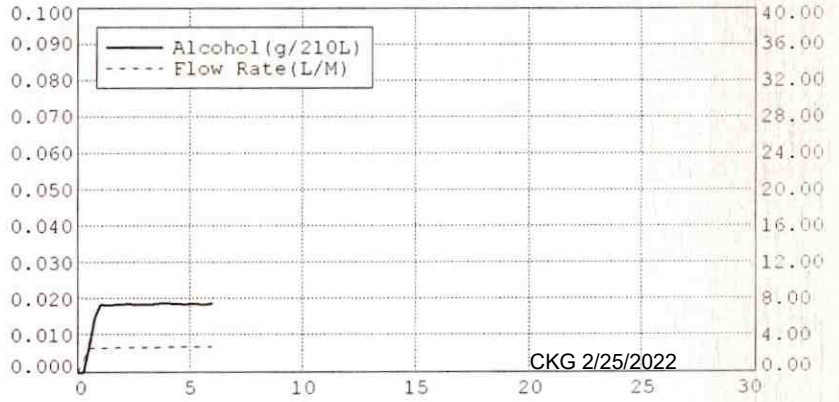
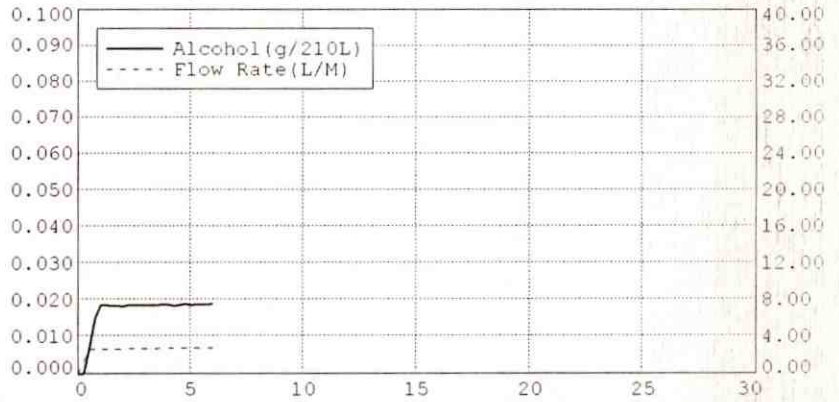
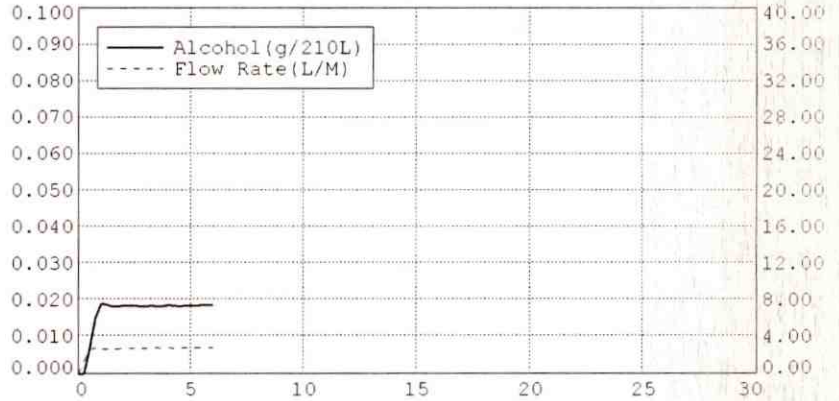
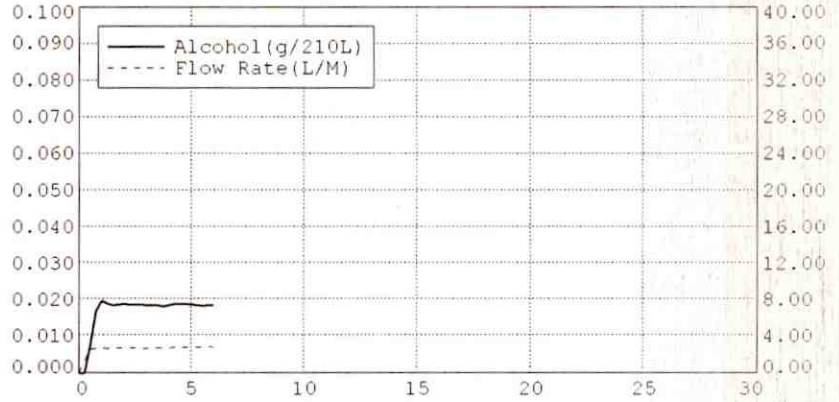
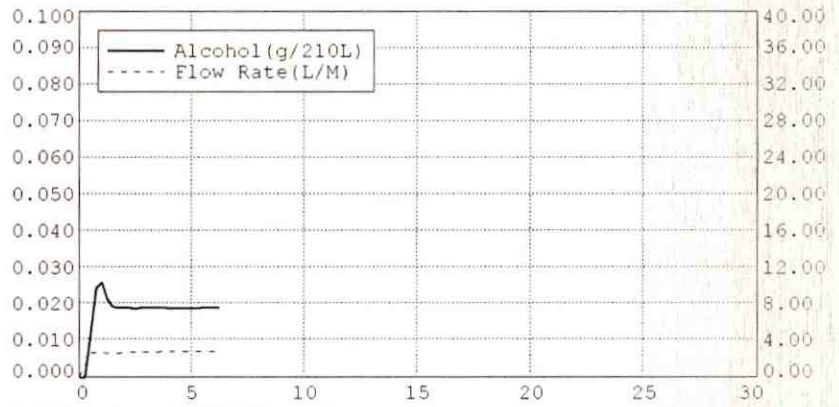
Date: 02/25/2022
 Time: 10:08:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.26: 0.020
 LOT #: AG100401
 EXPIRATION: 01/04/2023
 TANK PRESSURE: 984 psi

BLANK TEST	0.000	10:09
INTERNAL STANDARD	VERIFIED	10:09
EXTERNAL STANDARD	0.020	10:10
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.020	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.020	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.020	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.020	10:14
BLANK TEST	0.000	10:15

Average = 0.0200
 Std Dev = 0.0000



CKG 2/25/2022

LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

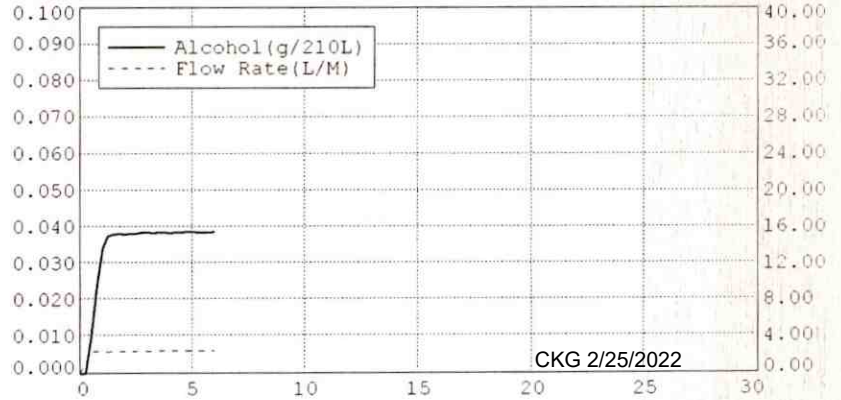
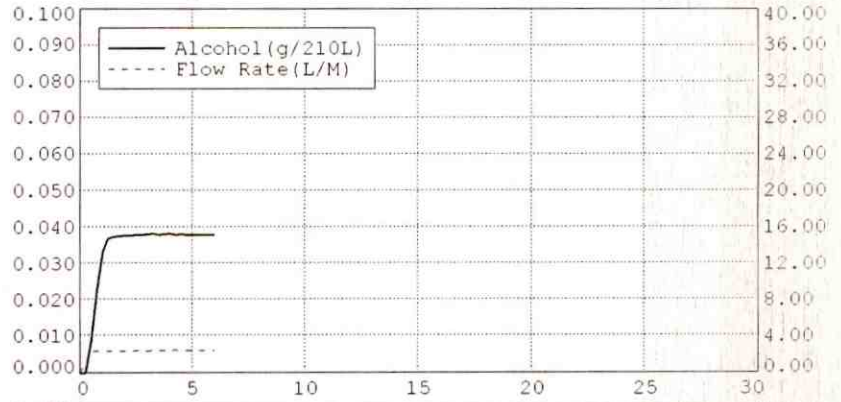
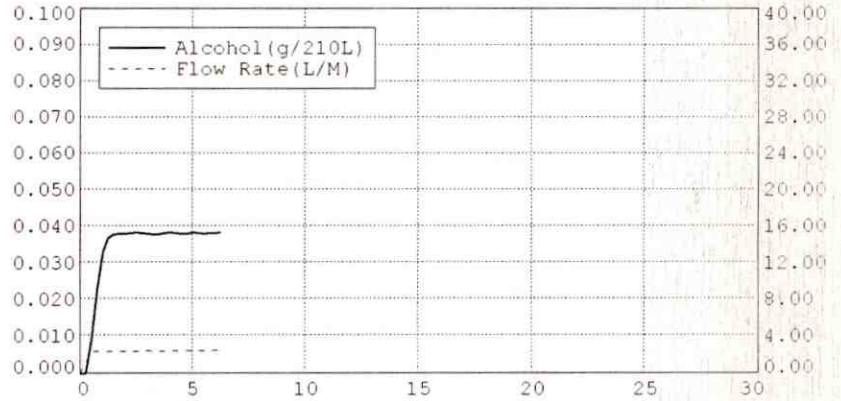
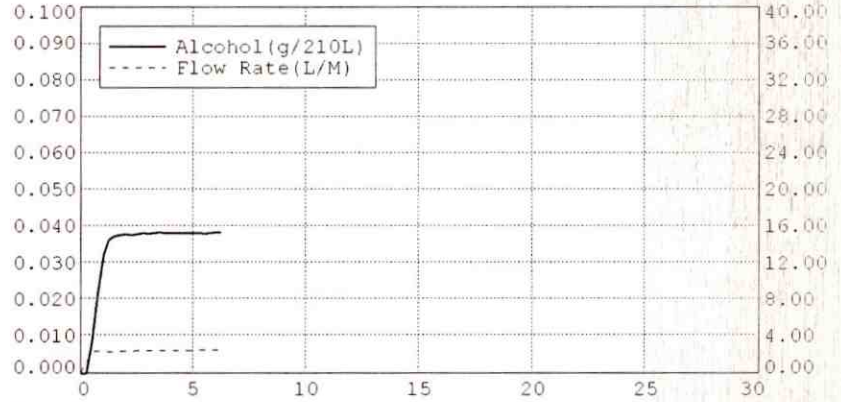
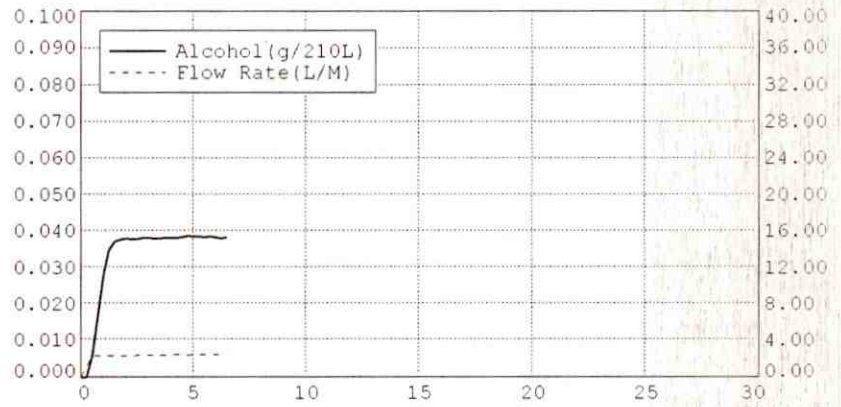
Date: 02/25/2022
 Time: 10:16:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.27: 0.039
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 414 psi

BLANK TEST	0.000	10:17
INTERNAL STANDARD	VERIFIED	10:17
EXTERNAL STANDARD	0.039	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.039	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.039	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.039	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.039	10:22
BLANK TEST	0.000	10:23

Average = 0.0390
 Std Dev = 0.0000



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LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

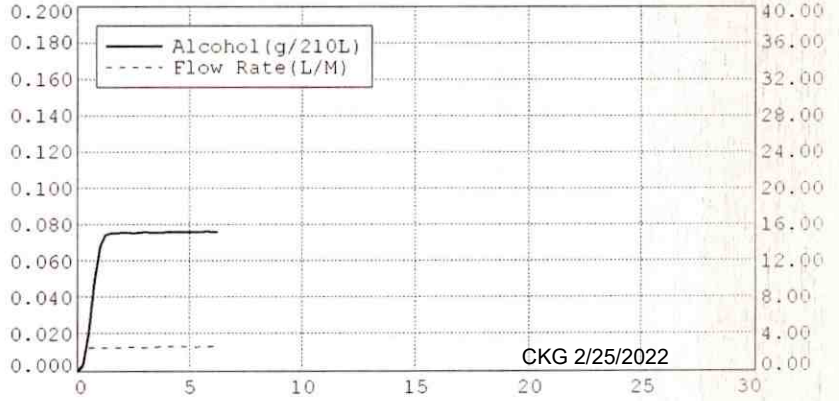
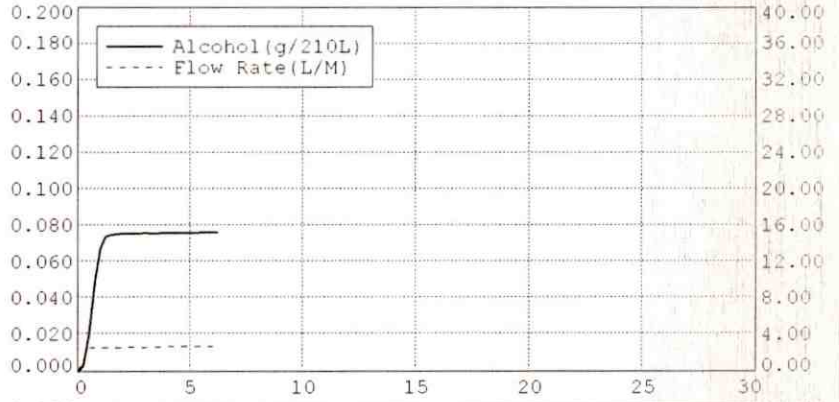
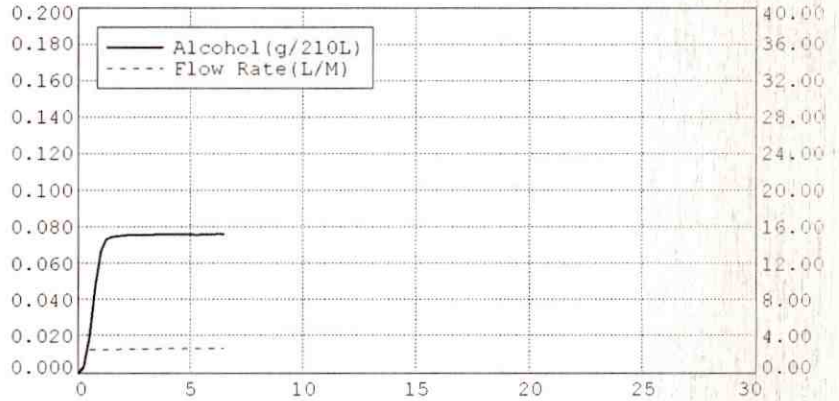
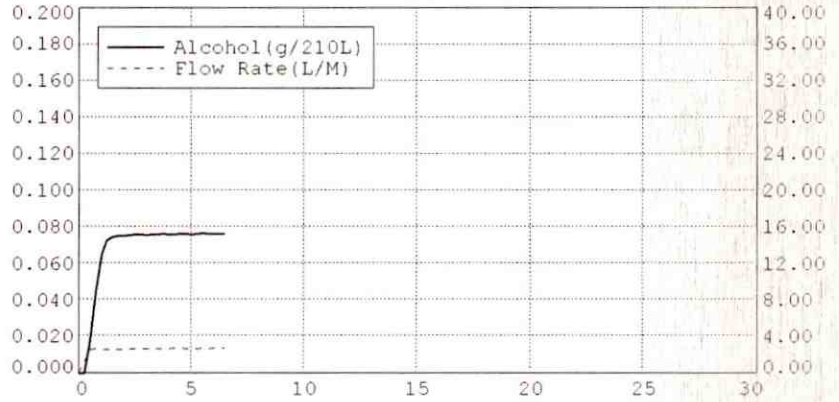
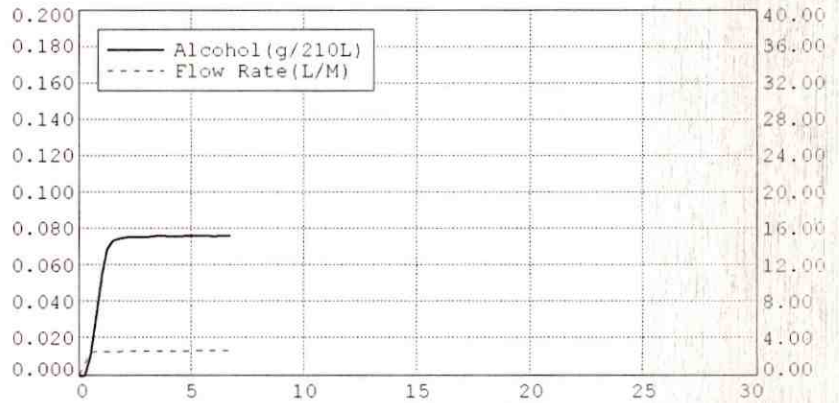
Date: 02/25/2022
 Time: 10:26:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.27: 0.078
 LOT #: AG113402
 EXPIRATION: 05/14/2023
 TANK PRESSURE: 732 psi

BLANK TEST	0.000	10:27
INTERNAL STANDARD	VERIFIED	10:28
EXTERNAL STANDARD	0.077	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.077	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.077	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.077	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.077	10:32
BLANK TEST	0.000	10:33

Average = 0.0770
 Std Dev = 0.0000



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LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100387

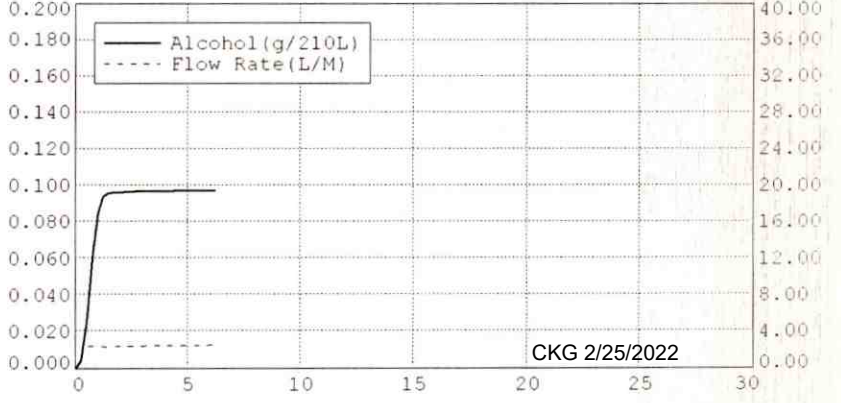
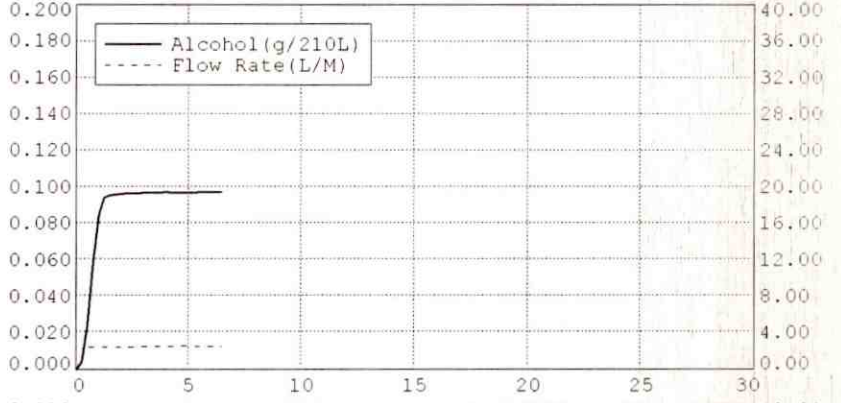
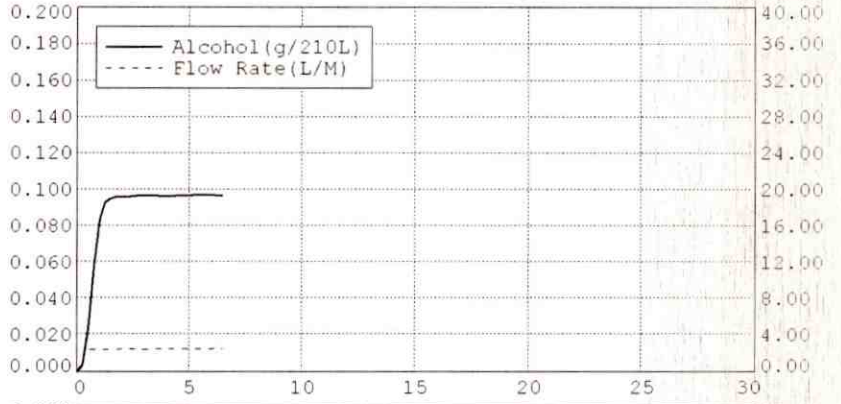
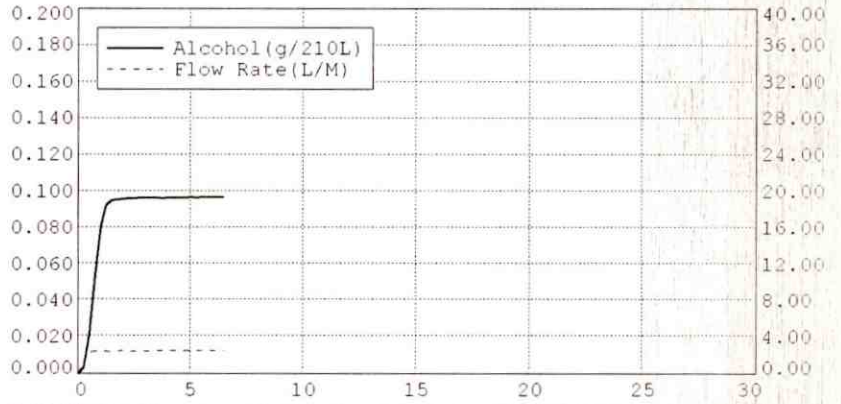
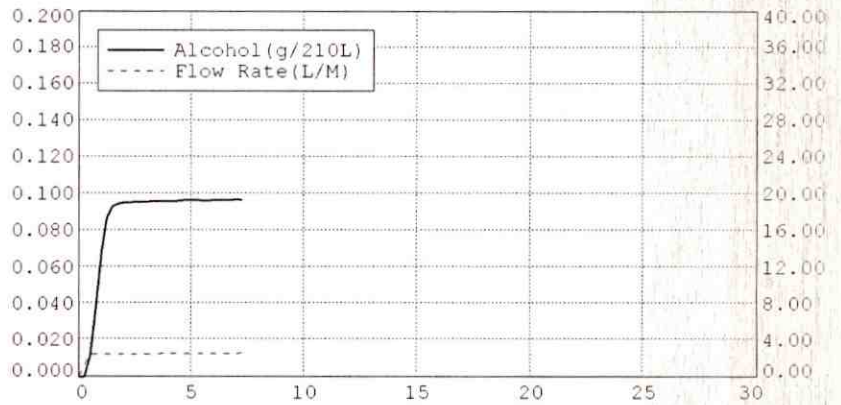
Date: 02/25/2022
 Time: 10:47:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.25: 0.098
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 530 psi

BLANK TEST	0.000	10:48
INTERNAL STANDARD	VERIFIED	10:48
EXTERNAL STANDARD	0.097	10:48
BLANK TEST	0.000	10:49
EXTERNAL STANDARD	0.098	10:50
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.098	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.098	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.098	10:53
BLANK TEST	0.000	10:54

Average = 0.0978
 Std Dev = 0.0004



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LINEARITY CHECK: Control Test 5

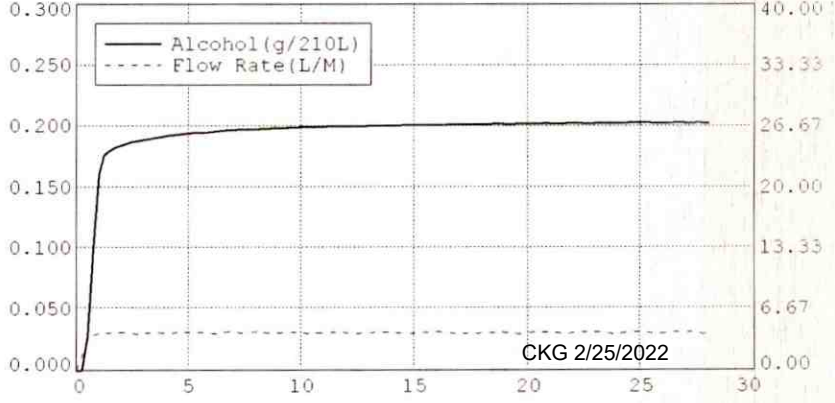
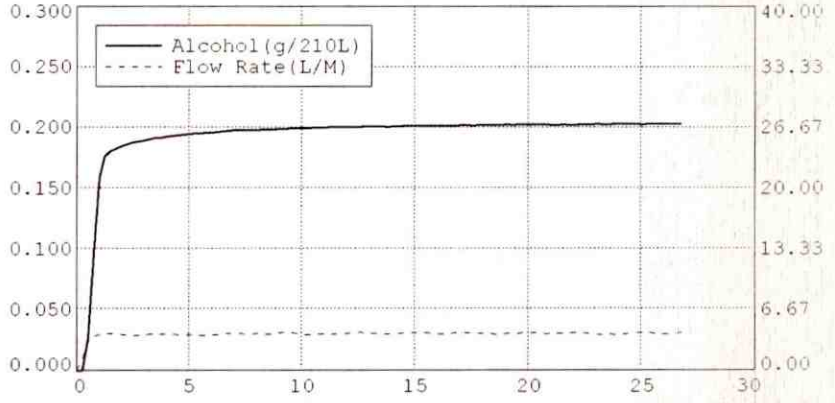
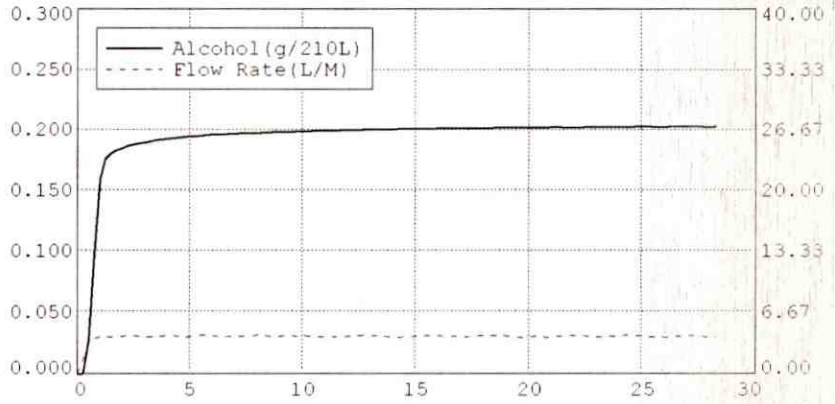
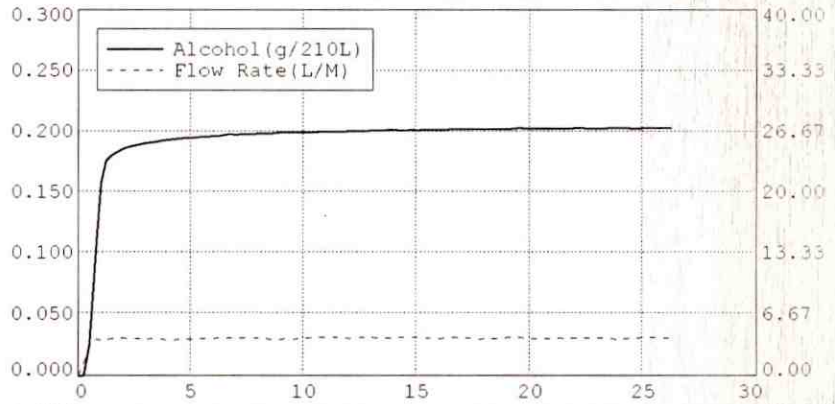
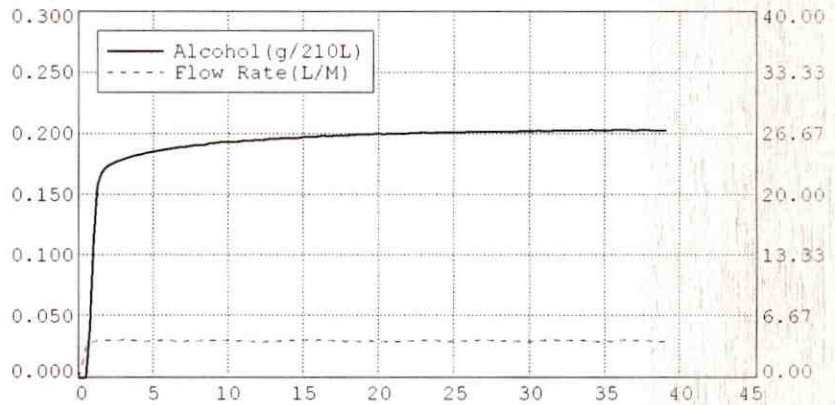
Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 02/25/2022
 Time: 11:19:56

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

BLANK TEST	0.000	11:21
INTERNAL STANDARD	VERIFIED	11:21
EXTERNAL STANDARD	0.204	11:22
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.204	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.203	11:25
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.203	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.203	11:27
BLANK TEST	0.000	11:28

Average = 0.2034
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

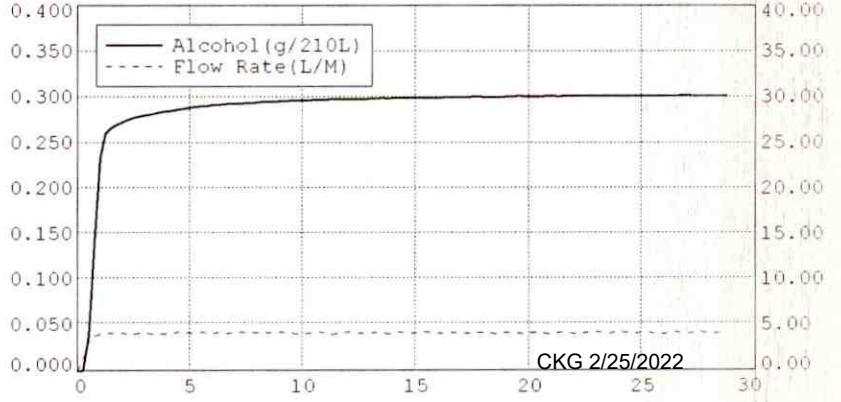
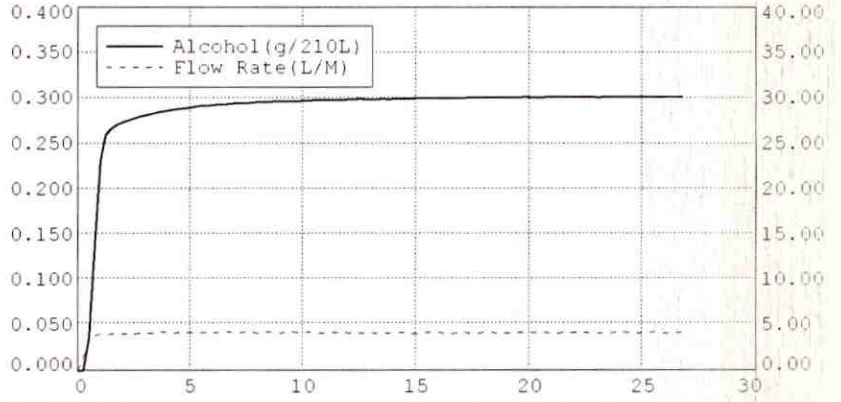
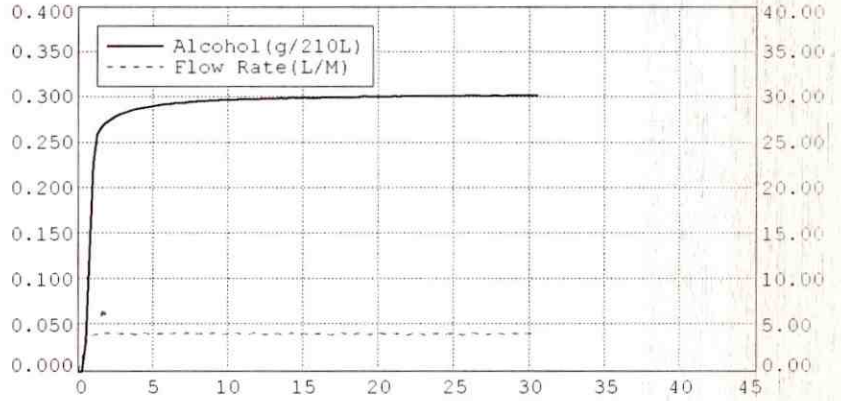
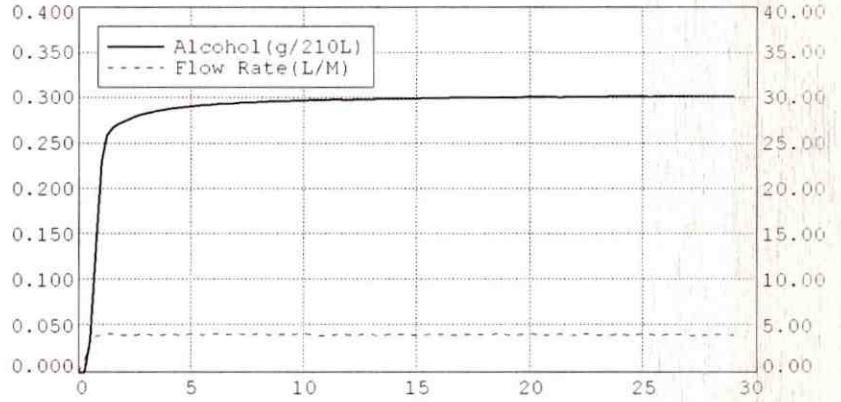
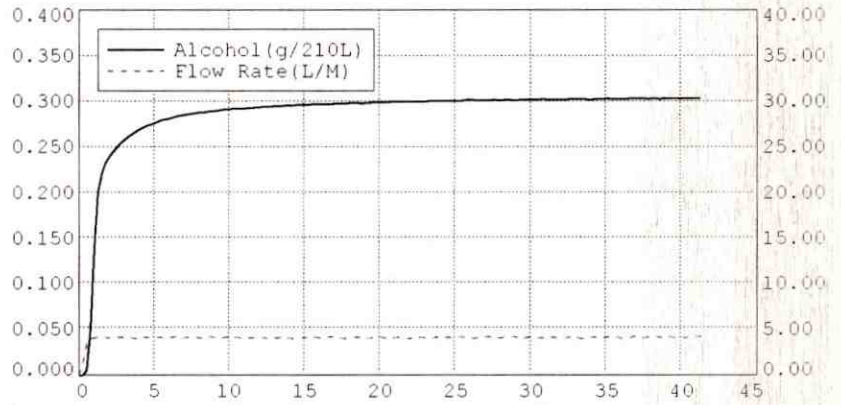
Alaska Department of Public Safety
 DATAMASTER dmt: 100387

Date: 02/25/2022
 Time: 11:30:45

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

BLANK TEST	0.000	11:31
INTERNAL STANDARD	VERIFIED	11:31
EXTERNAL STANDARD	0.304	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.302	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.302	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.302	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.302	11:38
BLANK TEST	0.000	11:39

Average = 0.3024
 Std Dev = 0.0009



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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 12:34:33

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

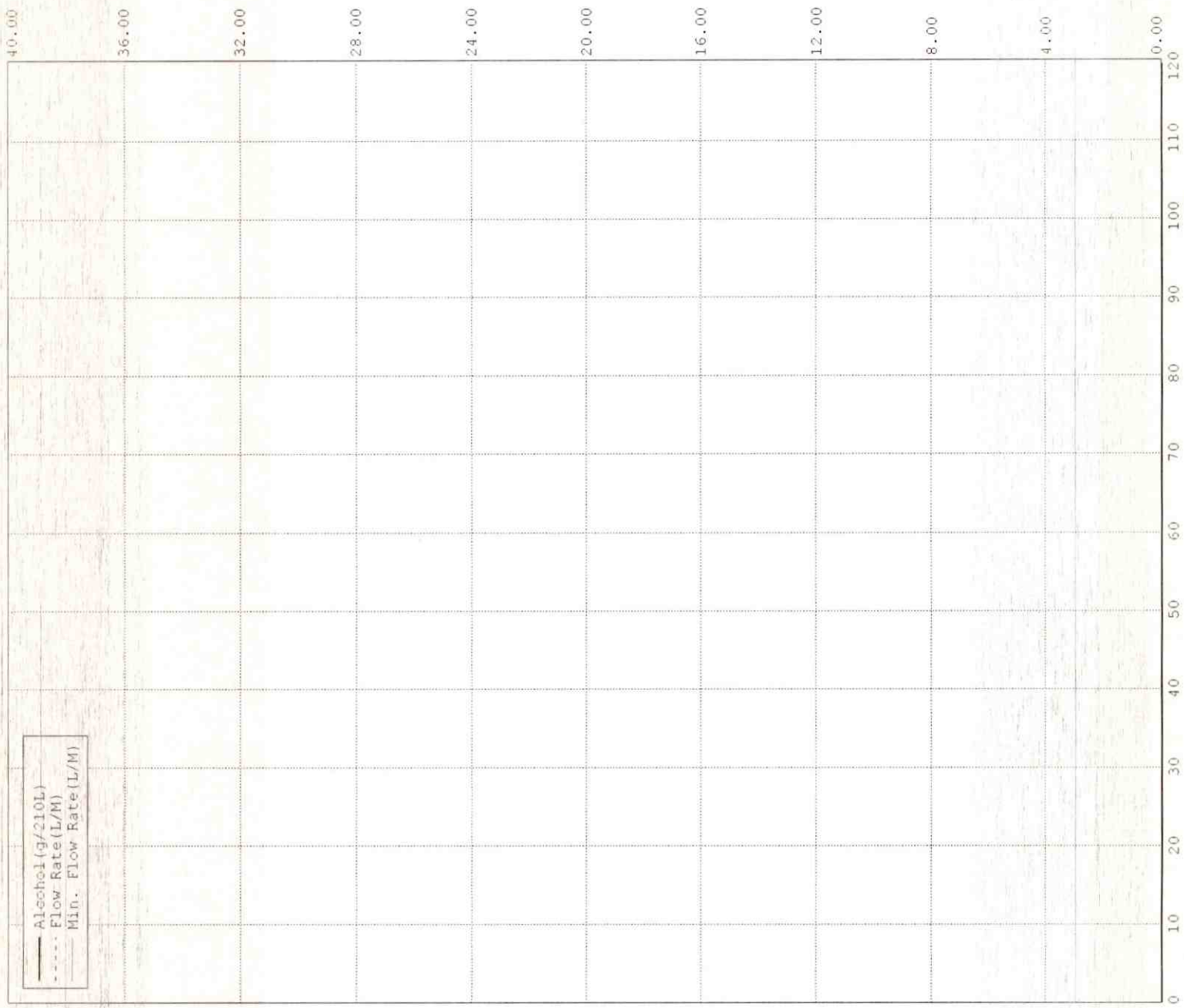
DEPT/AGENCY:
INCOMPLETE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 12:35
BLANK TEST 0.000 12:36
INTERNAL STANDARD VERIFIED 12:36
EXTERNAL STANDARD 0.077 12:36
BLANK TEST 0.000 12:37
SUBJECT SAMPLE INCOMPLETE 12:39

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 12:42:01

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

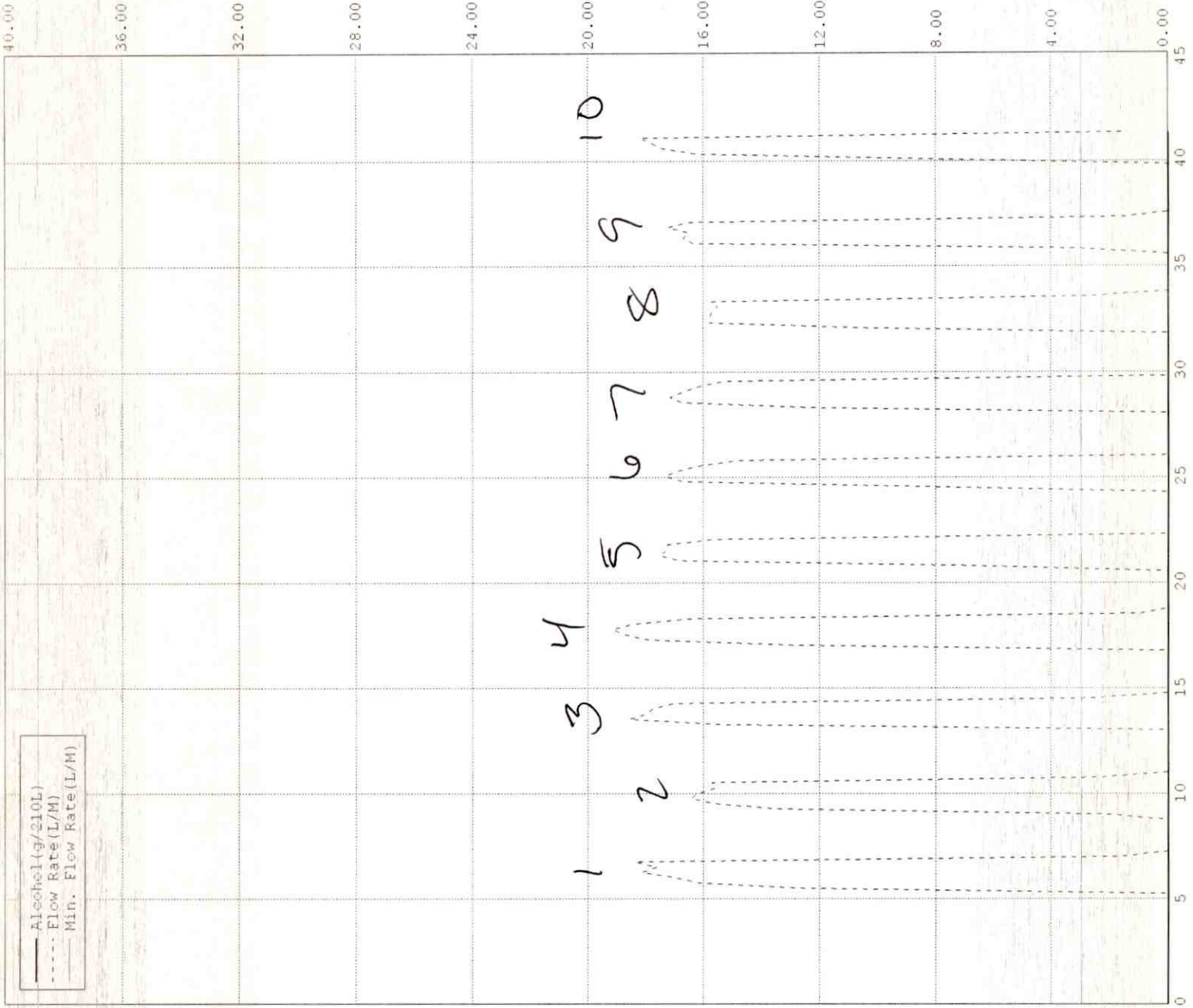
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 12:43
BLANK TEST 0.000 12:43
INTERNAL STANDARD VERIFIED 12:43
EXTERNAL STANDARD 0.077 12:43
BLANK TEST 0.000 12:44
SUBJECT SAMPLE XXX 12:45

Maximum Attempts Exceeded

CKG

CKG 2/25/2022



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 12:53:05

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

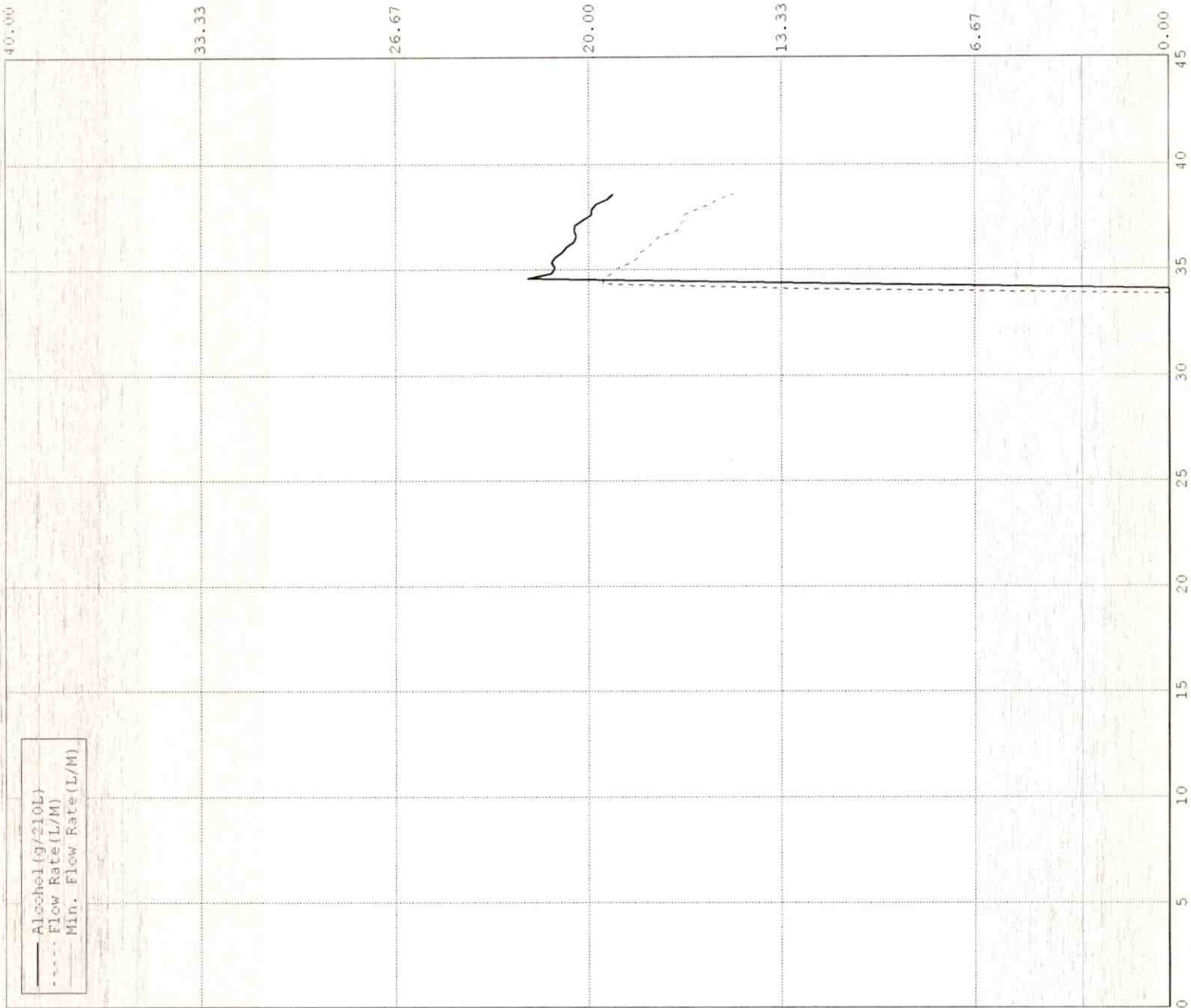
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:54
BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:54
EXTERNAL STANDARD	0.077	12:54
BLANK TEST	0.000	12:55
SUBJECT SAMPLE	INVALID	12:56

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CKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 12:59:26

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 29.24: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023

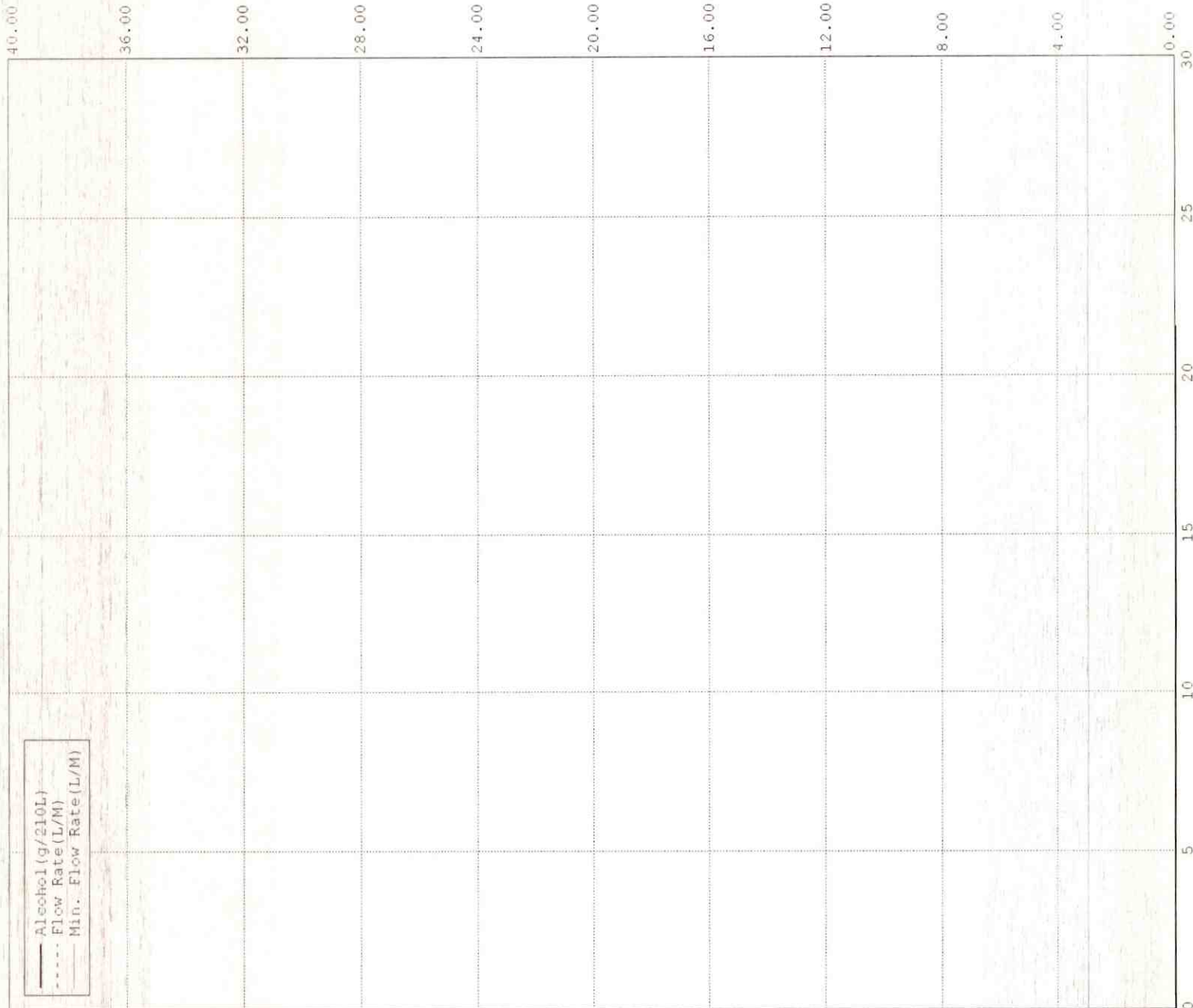
DIAGNOSTIC CHECK
BLANK TEST PASSED 13:00
INTERNAL STANDARD 0.000 13:00
EXTERNAL STANDARD VERIFIED 13:00
BLANK TEST 0.077 13:00
BLANK TEST 0.000 13:01

RFI DETECTED

CKG

CKG 2/25/2022

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 13:10:52

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 29.24: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 13:11
BLANK TEST 0.000 13:12
INTERNAL STANDARD VERIFIED 13:12
Xq = 0.100 (2.06%)
EXTERNAL STANDARD 0.078 13:12
X[1] = 0.0776 (-0.0012) (0.0033)
BLANK TEST 0.000 13:13
SUBJECT SAMPLE XXX 13:15
X[1] = 0.1141 (-0.0164) (0.0021)

Interference Detected

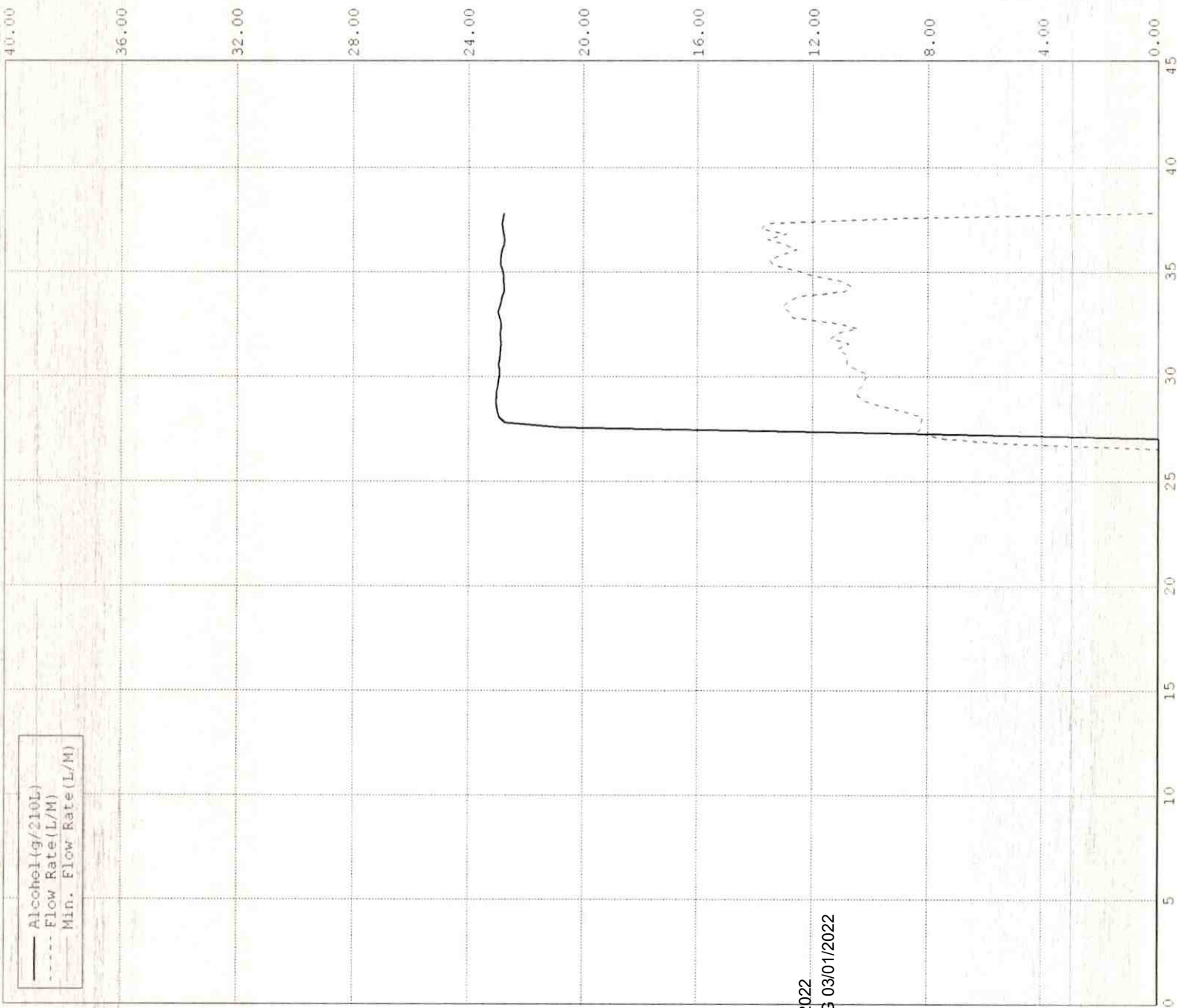
-0.0013

TAL 03/01/2022
~~0.00128~~ CKG 03/01/2022

Filter 2 Average: 0.0024
Filter 3 Average: 0.0024
CUT 2/25/2022

CKG

CKG 2/25/2022



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 13:27:44

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.24: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:28
BLANK TEST	0.000	13:28
INTERNAL STANDARD	VERIFIED	13:29
$X_q = 0.100$ (2.15%)		
EXTERNAL STANDARD	0.078	13:29
$X[1] = 0.0776$ (-0.0008) (0.0021)		
BLANK TEST	0.000	13:30
SUBJECT SAMPLE	XXX	13:30
$X[1] = 0.1227$ (-0.0285) (0.0009)		

Interference Detected

CKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 13:20:25

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

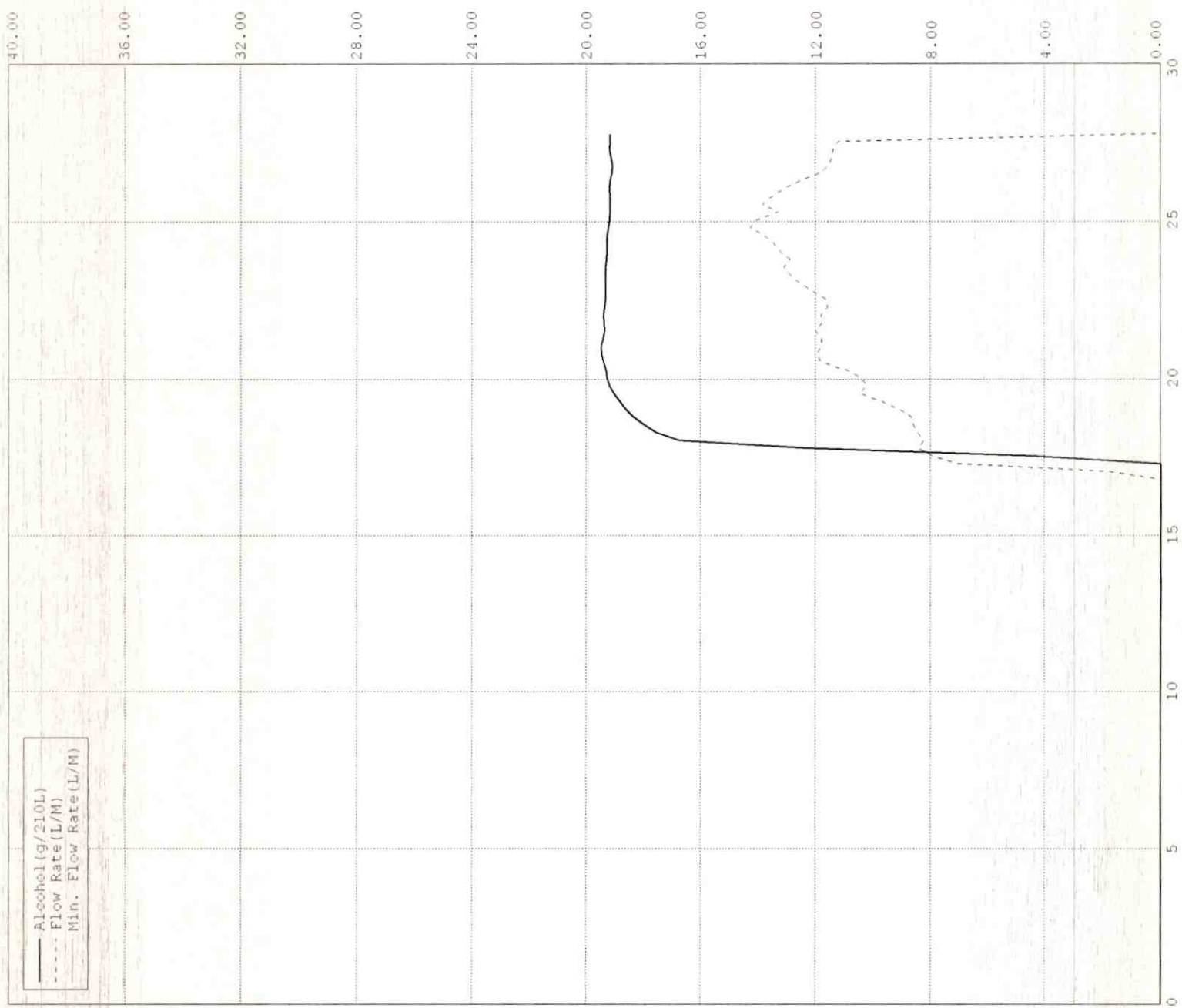
DEPT/AGENCY:
INTERFERENCE NEGATIVE CONTROL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.23: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:21
BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
Xq = 0.100 (1.52%)	0.077	13:21
EXTERNAL STANDARD	(0.0025)	
X[1] = 0.0771 (-0.0016)	0.000	13:22
BLANK TEST	0.000	13:23
SUBJECT SAMPLE (Vol=2.01L)	0.096	13:23
X[1] = 0.0968 (-0.0004)	(0.0003)	
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.076	13:24
X[1] = 0.0765 (-0.0015)	(0.0017)	
BLANK TEST	0.000	13:25

CKG

CKG 2/25/2022



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100387

Date: 02/25/2022
Time: 13:54:35

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 29.22: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:56
BLANK TEST	0.000	13:56
INTERNAL STANDARD	VERIFIED	13:56
EXTERNAL STANDARD	0.078	13:56
BLANK TEST	0.000	13:57
SUBJECT SAMPLE (Vol=1.74L)	0.000	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.078	13:59
BLANK TEST	0.000	14:00

CKG

CKG 2/25/2022

