

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Effective: 11/10/2021

Supervised by Carlie Glaister

Version: 2.0

Instrument #: 100413Analyst: Tatiana LeeStart Date: July 14, 2022

- Diagnostic Test (attached)
 Internal Standard value \leq 3.00%
- Adjust voltages, if needed
- Lamp (2.6V Maximum)
 - Bias
 - Cooler (2.0V Maximum)
 - 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: At1217A02 Exp: 06/28/2024

0.040g/210L Mnf: Airgas Lot: At1217A04 Exp: 06/28/2024

0.080g/210L Mnf: Airgas Lot: At113402 Exp: 05/14/2023

0.100g/210L Mnf: Airgas Lot: At1211003 Exp: 04/20/2024

0.200g/210L Mnf: tuth Lot: 20510 Exp: 12/03/2022

Simulator S/N: DK4177 Date Calibrated: 11/30/2021

0.300g/210L Mnf: tuth Lot: 21030 Exp: 02/02/2023

Simulator S/N: PD1170 Date Calibrated: 11/30/2021

Functional Tests (attached)

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

Acetone Mnf: Lifeloc Lot: 21DP41158 Level: 0.100 Exp: 04/29/2023

Simulator S/N: PD1200 Date Calibrated: 11/30/2021

Isopropanol Mnf: Lifeloc Lot: 21K41172 Level: 0.100 Exp: 11/09/2023

Simulator S/N: DK4170 Date Calibrated: 11/30/2021

Neg. Control Mnf: Lifeloc Lot: 21DP41158 Level: 0.100 Exp: 04/29/2023

Simulator S/N: DK4162 Date Calibrated: 11/29/2021

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

End Date: July 15, 2022

DIAGNOSTIC RECORD

 Alaska Department of Public Safety
 DATAMASTER dmt: 100413

Date: 07/14/2022
 Time: 08:02:27

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
 (44.0°C - 52.0°C)
 Breath Tube = 47.3°C PASSED
 (38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.89 V PASSED
 (1.13 V - 2.65 V)
 Cooler Voltage = 1.87 V PASSED
 (1.12 V - 2.62 V)
 Bias Voltage = 80 V PASSED
 (48 V - 112 V)
 Chopper Freq = 538 Hz PASSED
 (475 Hz - 575 Hz)
 Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.820 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 PASSED

Xq = 0.080 0.88% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100413
-----Date: 07/14/2022
Time: 8:17 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 47.2°CCurrent Barometer 29.6 in
Volume (Ltr) 1.47

Settings

Lamp: 1.89 V
Bias: 80 V
Cooler: 1.87 V
Chopper: 537 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.003 V

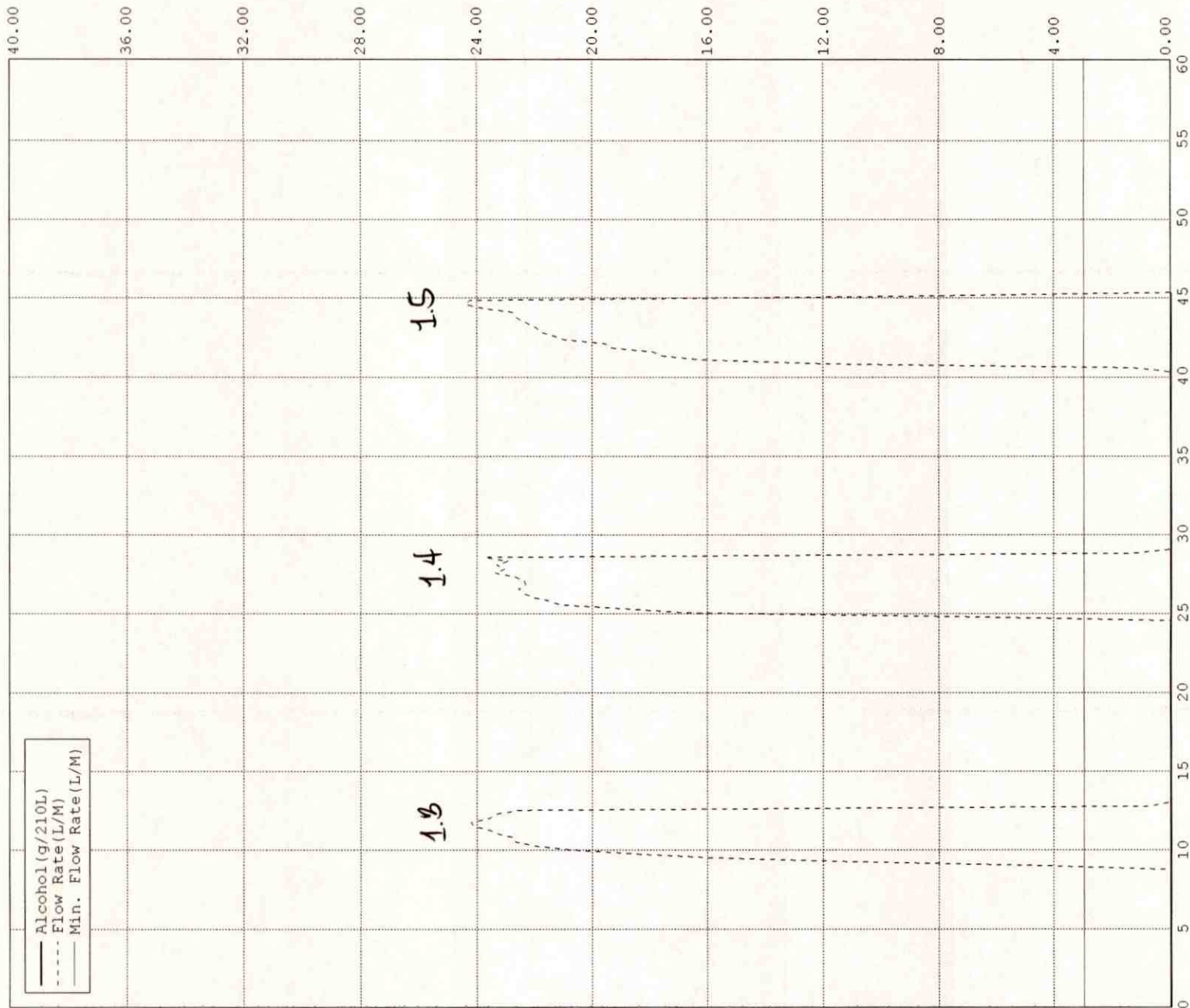
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100413

Date: 10/29/2021
Time: 12:56:30

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca	=	0.1000		
CAL	=	0.994710	0.800	<= CAL < 1.200
b1	=	0.0005	0.0000	<= b1 < 0.0040
b2	=	0.0043	0.0010	<= b2 < 0.0100
b3	=	0.0003	0.0000	<= b3 < 0.0040
Xq	=	0.0793	0.0500	<= Xq < 0.2000
a21	=	1.134372	1.050	<= a21 < 1.300
a31	=	0.439394	0.300	<= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

Date: 07/14/2022
 Time: 08:31:19

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

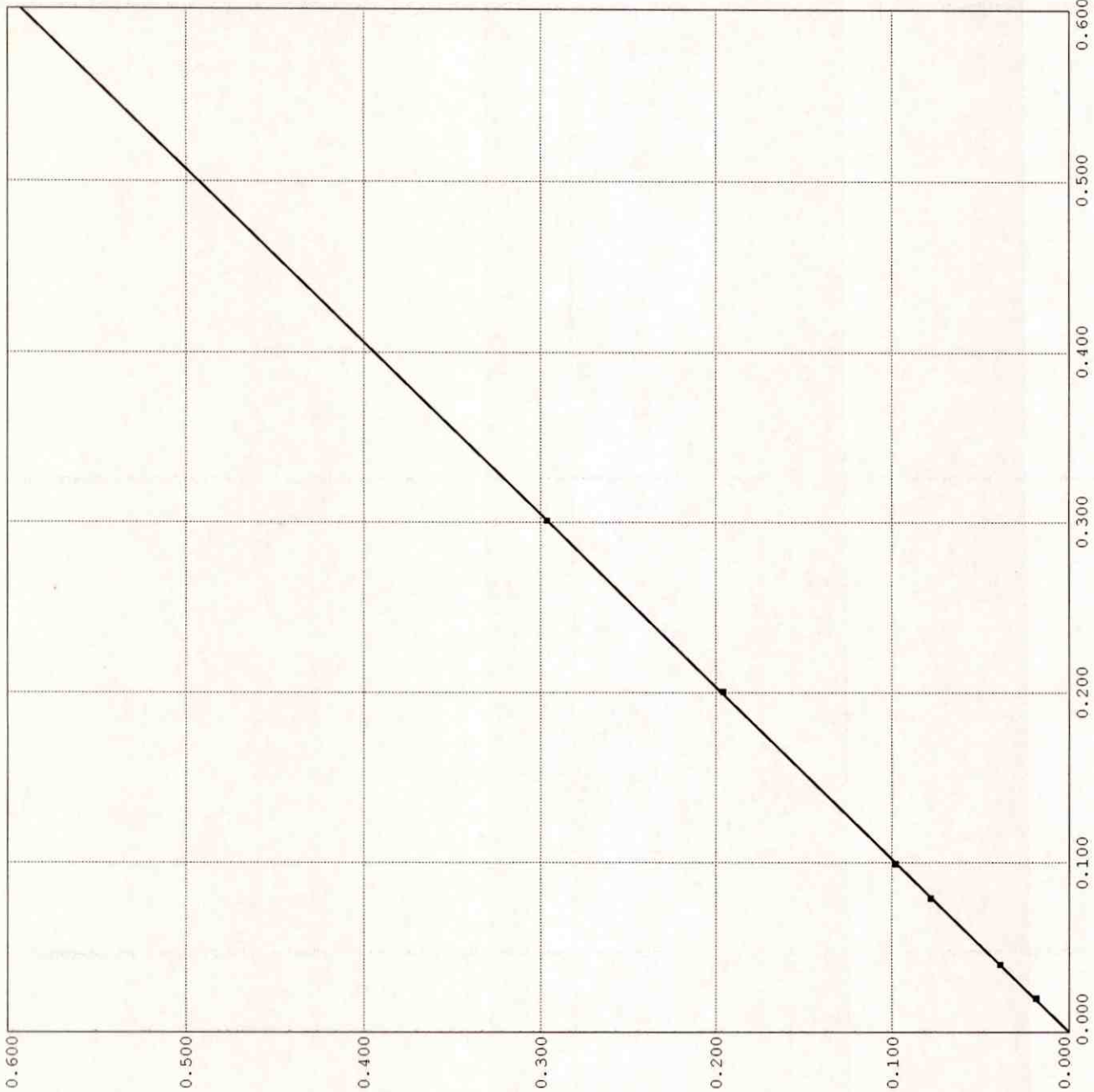
DEPT/AGENCY: *Minimum volume test*
 XXX
 CASE/REPORT: XXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.61: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	08:32
BLANK TEST	0.000	08:32
INTERNAL STANDARD	VERIFIED	08:32
EXTERNAL STANDARD	0.080	08:32
BLANK TEST	0.000	08:33
SUBJECT SAMPLE (Vol=1.51L)	0.000	08:34
BLANK TEST	0.000	08:35
EXTERNAL STANDARD	0.080	08:35
BLANK TEST	0.000	08:36

TAL



LINEARITY CHECK			

Alaska Department of Public Safety			
DATA MASTER dmt: 100413			

Date: 07/14/2022			
Time: 08:43:19			

SUPERVISOR NAME:			
TATIANA LEE			
OPERATOR'S #: 10437			
TARGET	AVERAGE	STD. DEV.	
0.020	0.0192	0.0004	
0.040	0.0396	0.0005	
0.079	0.0790	0.0000	
0.099	0.0990	0.0000	
0.200	0.1966	0.0005	
0.300	0.2970	0.0019	
SLOPE	= 0.988175		
R ²	= 0.999933		

TAL

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

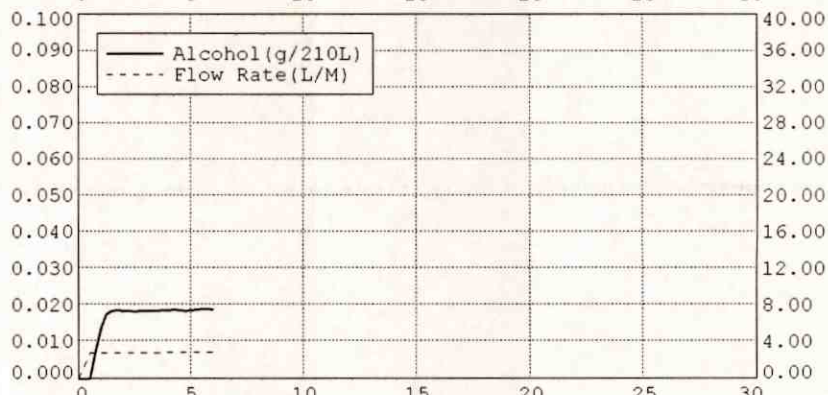
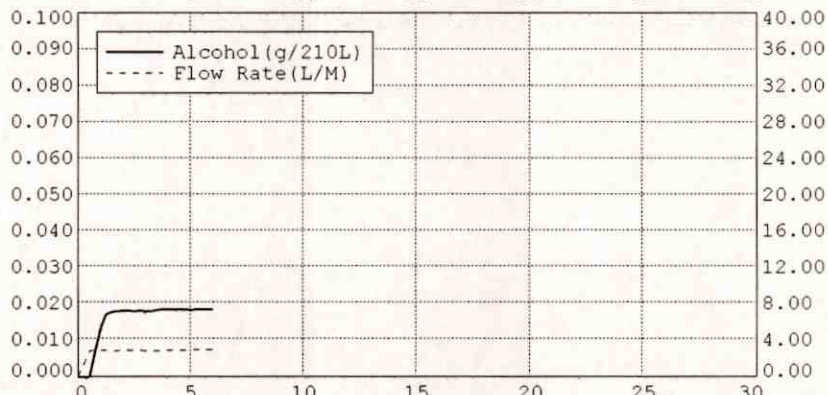
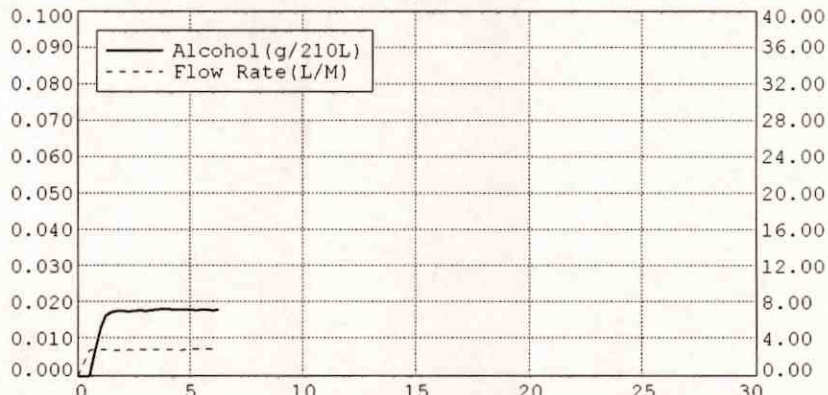
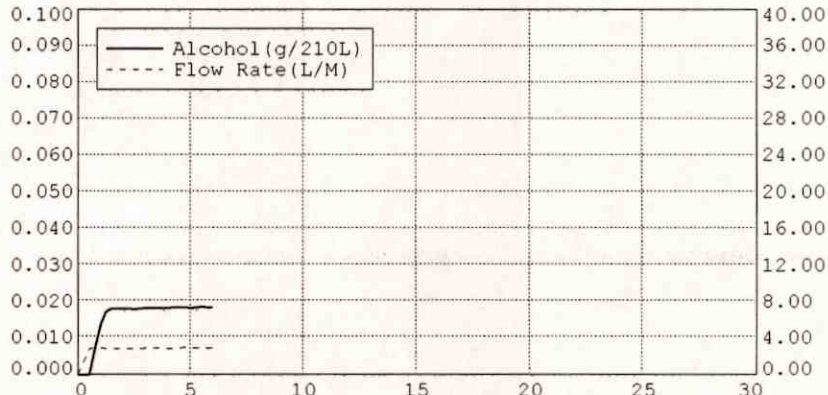
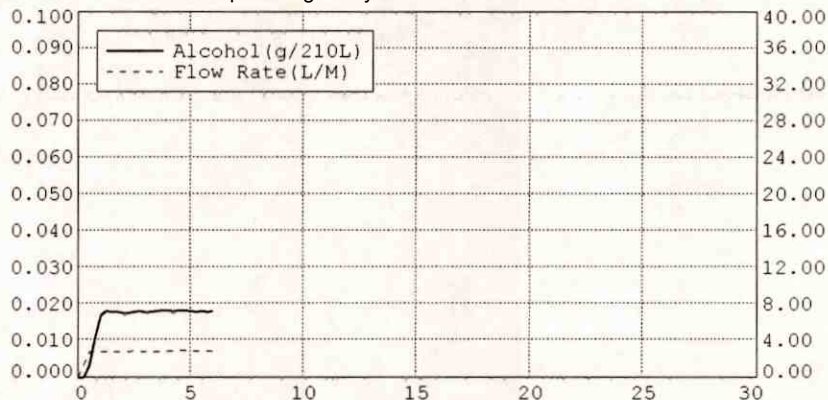
Date: 07/14/2022
 Time: 08:43:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.61: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 1103 psi

BLANK TEST	0.000	08:44
INTERNAL STANDARD	VERIFIED	08:44
EXTERNAL STANDARD	0.019	08:45
BLANK TEST	0.000	08:46
EXTERNAL STANDARD	0.019	08:46
BLANK TEST	0.000	08:47
EXTERNAL STANDARD	0.019	08:47
BLANK TEST	0.000	08:48
EXTERNAL STANDARD	0.019	08:48
BLANK TEST	0.000	08:49
EXTERNAL STANDARD	0.020	08:49
BLANK TEST	0.000	08:50

Average = 0.0192
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

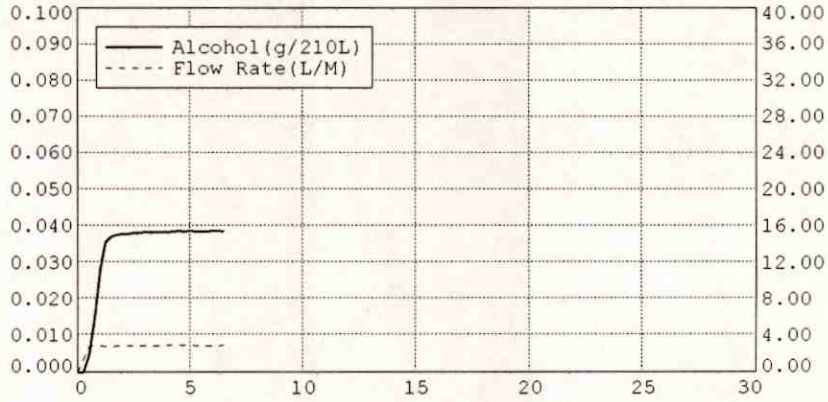
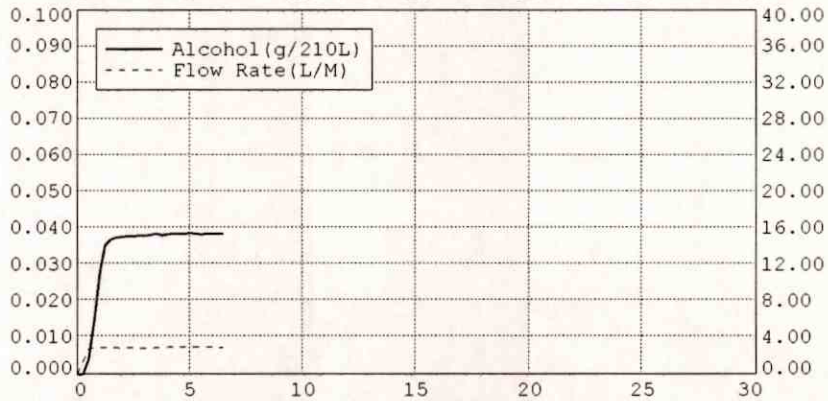
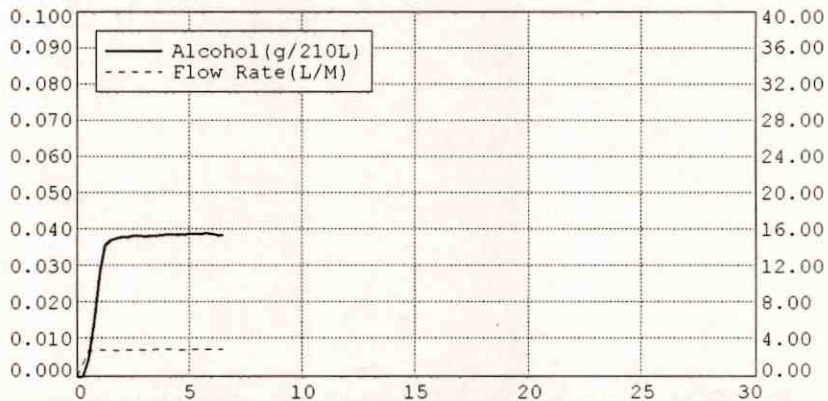
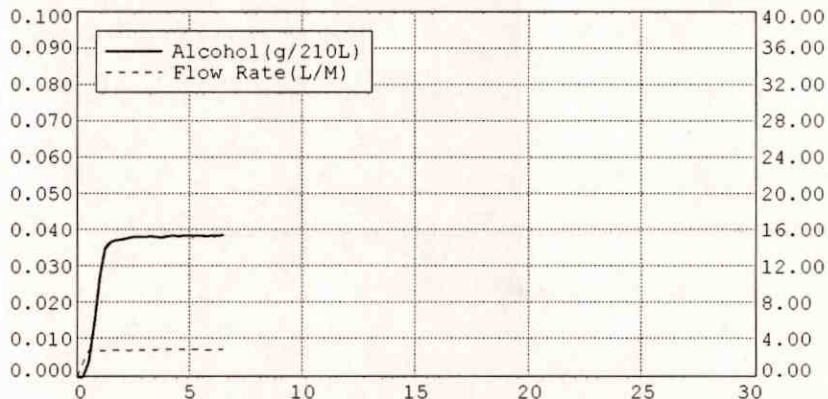
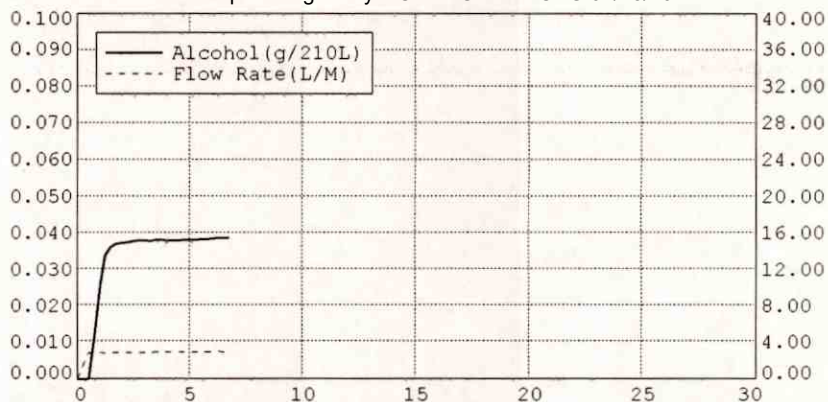
Date: 07/14/2022
 Time: 08:51:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.62: 0.040
 LOT #: AG217904
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 1159 psi

BLANK TEST	0.000	08:52
INTERNAL STANDARD	VERIFIED	08:52
EXTERNAL STANDARD	0.040	08:52
BLANK TEST	0.000	08:53
EXTERNAL STANDARD	0.040	08:54
BLANK TEST	0.000	08:55
EXTERNAL STANDARD	0.040	08:55
BLANK TEST	0.000	08:56
EXTERNAL STANDARD	0.039	08:56
BLANK TEST	0.000	08:57
EXTERNAL STANDARD	0.039	08:57
BLANK TEST	0.000	08:58

Average = 0.0396
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

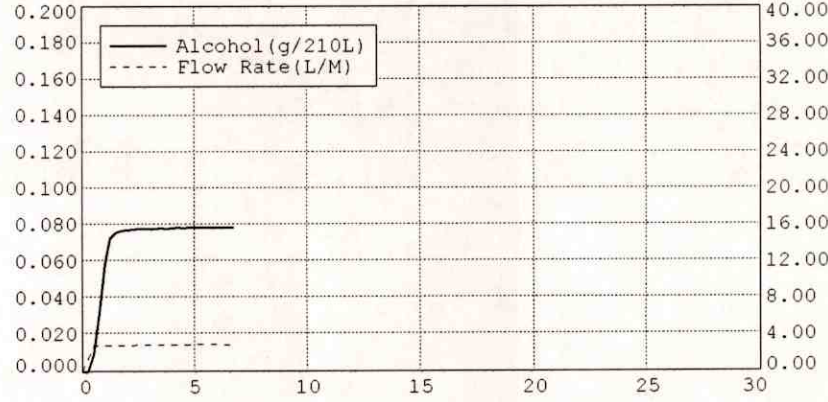
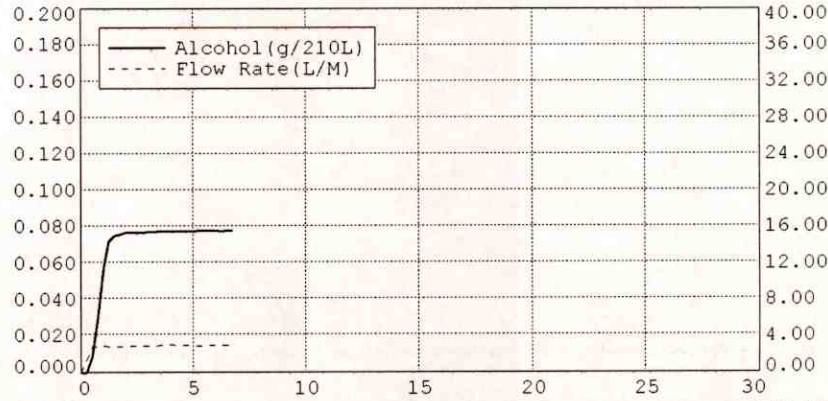
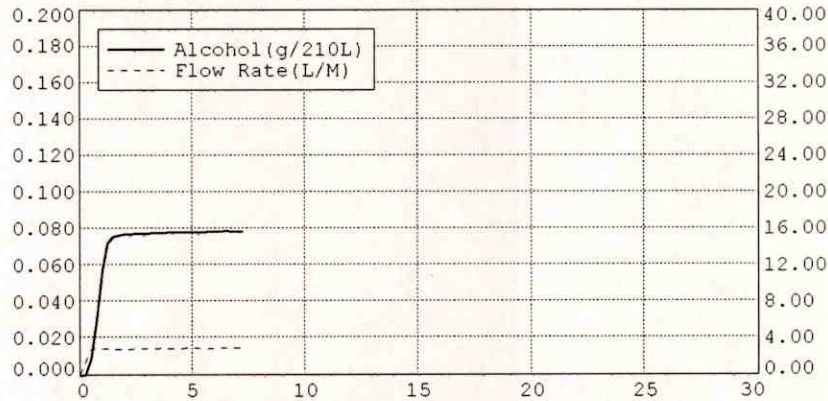
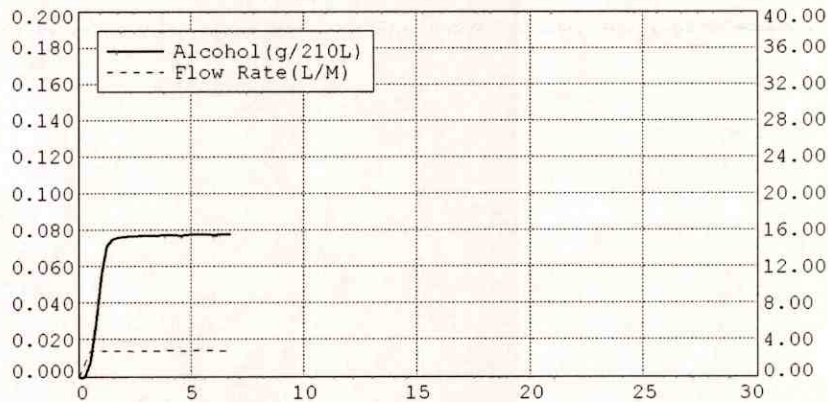
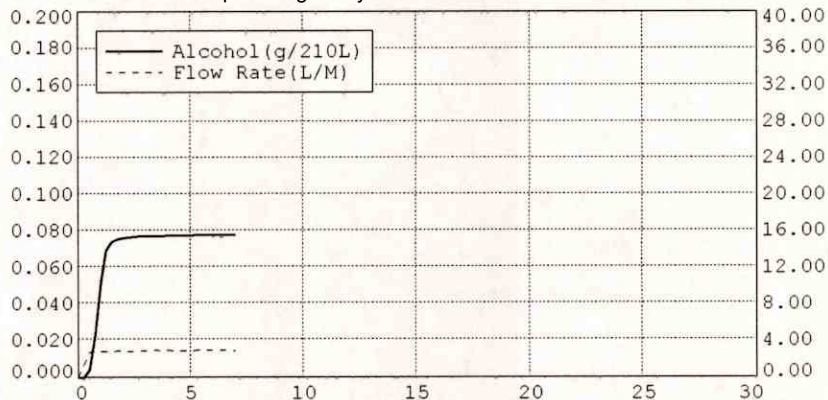
Date: 07/14/2022
 Time: 08:59:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023
 TANK PRESSURE: 1217 psi

BLANK TEST	0.000	09:01
INTERNAL STANDARD	VERIFIED	09:01
EXTERNAL STANDARD	0.079	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.079	09:02
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.079	09:03
BLANK TEST	0.000	09:04
EXTERNAL STANDARD	0.079	09:04
BLANK TEST	0.000	09:05
EXTERNAL STANDARD	0.079	09:06
BLANK TEST	0.000	09:07

Average = 0.0790
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

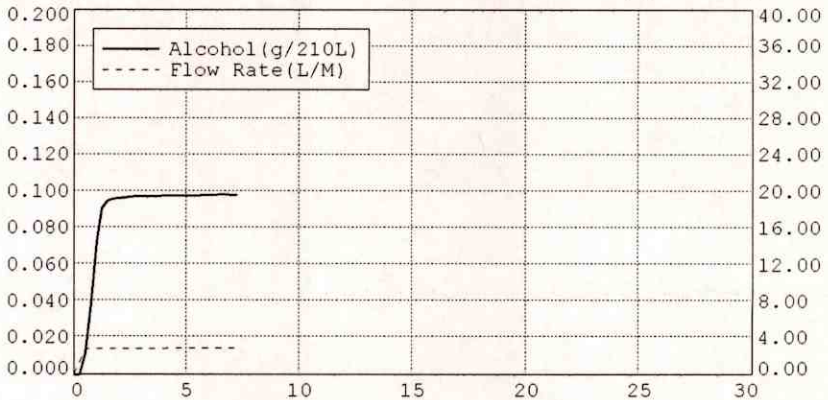
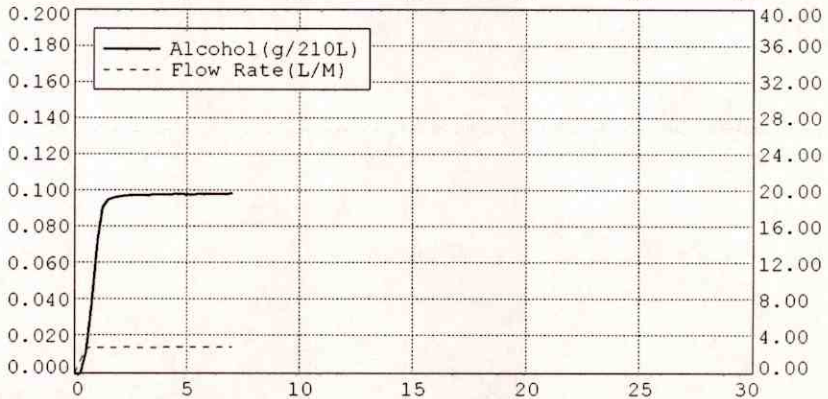
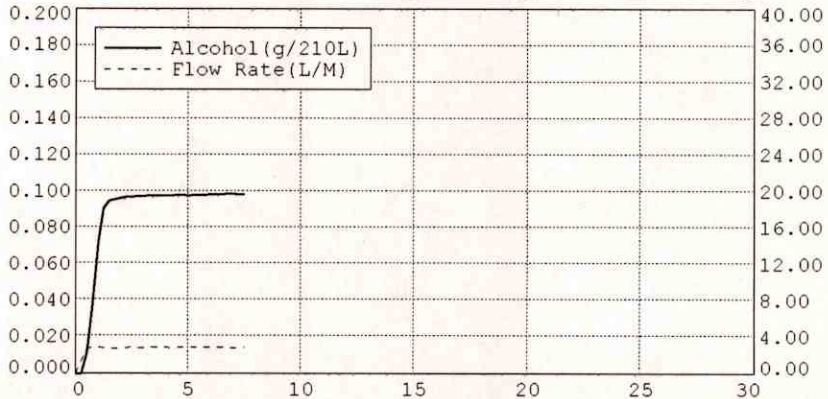
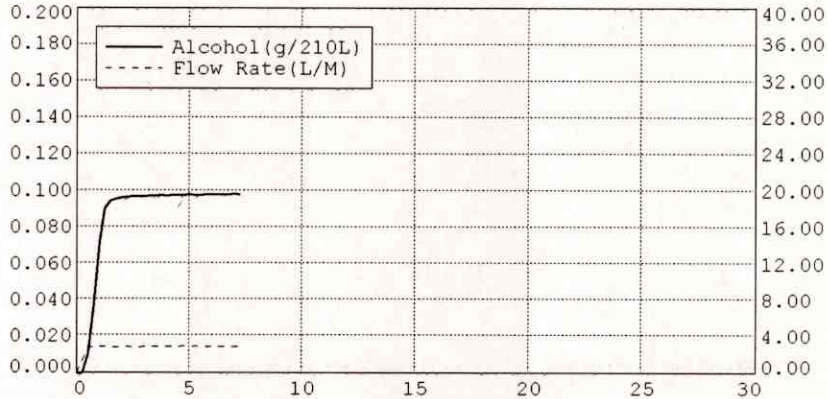
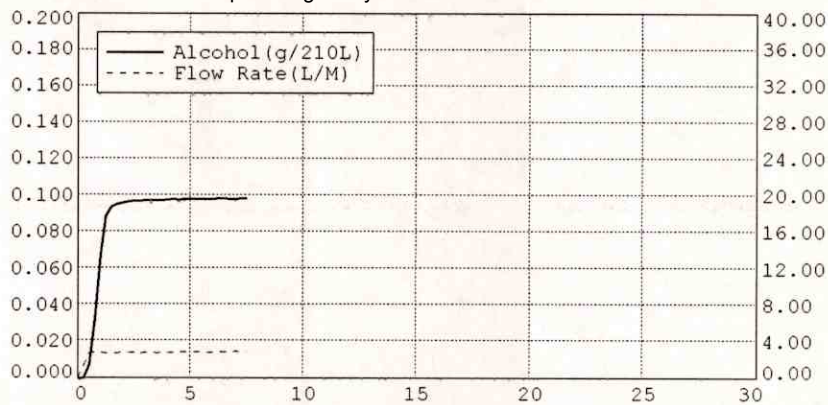
Date: 07/14/2022
 Time: 09:07:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.62: 0.099
 LOT #: AG211003
 EXPIRATION: 04/20/2024
 TANK PRESSURE: 1066 psi

BLANK TEST	0.000	09:09
INTERNAL STANDARD	VERIFIED	09:09
EXTERNAL STANDARD	0.099	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.099	09:10
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.099	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.099	09:13
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.099	09:14
BLANK TEST	0.000	09:15

Average = 0.0990
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

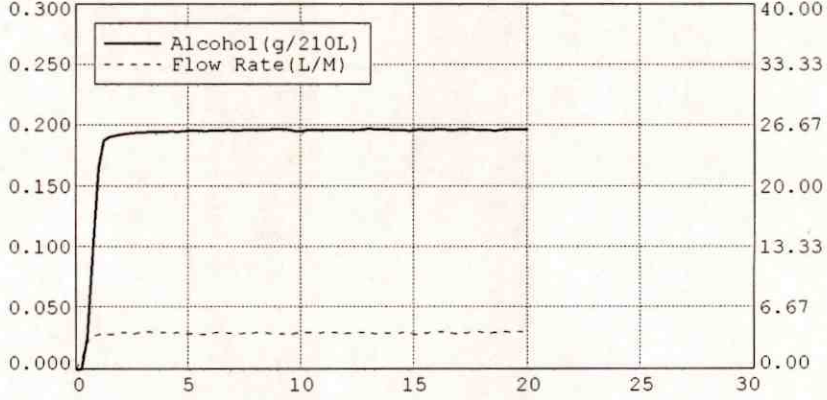
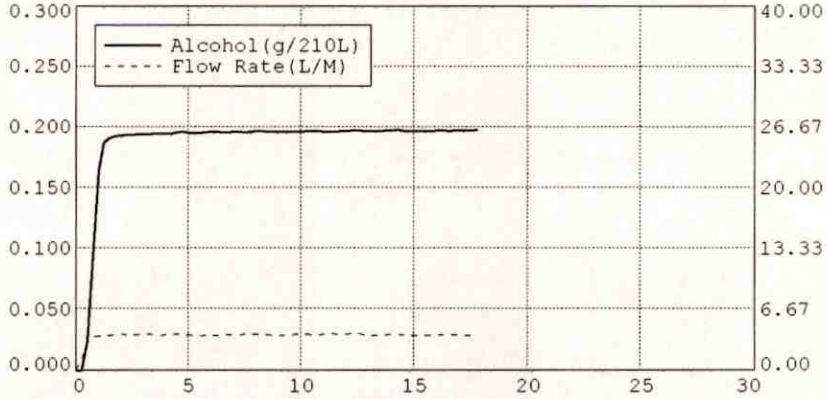
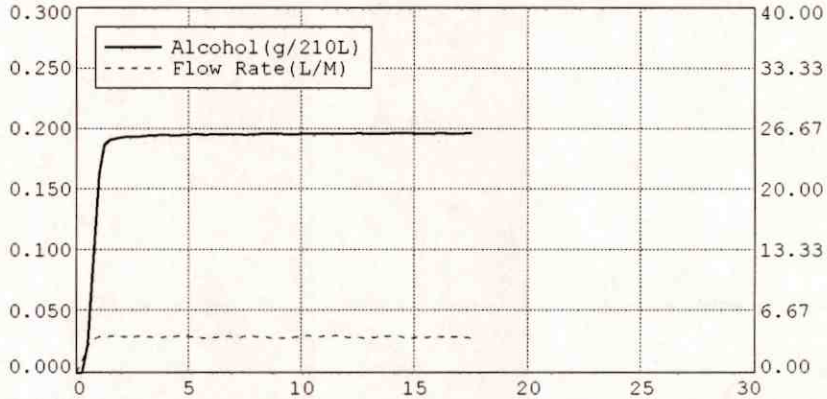
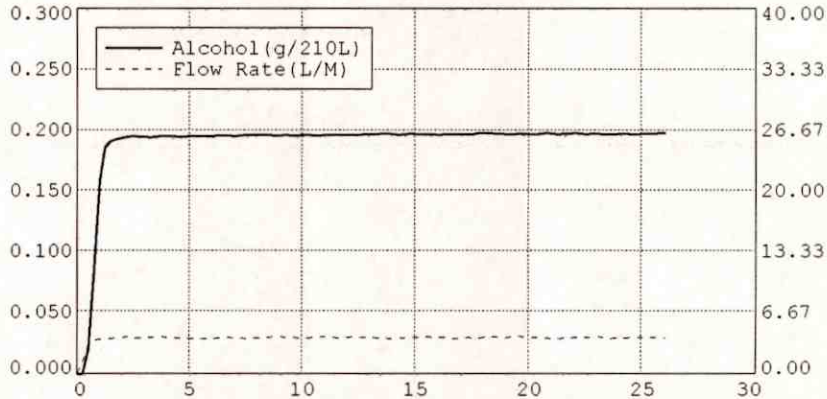
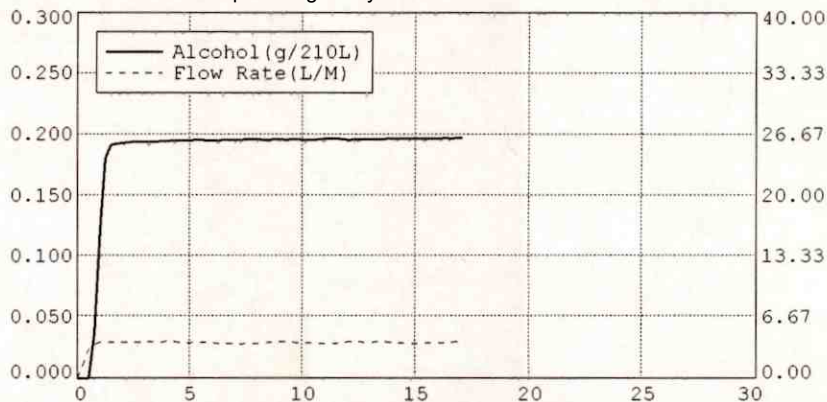
Date: 07/14/2022
 Time: 09:35:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 20510
 EXPIRATION: 12/03/2022

BLANK TEST	0.000	09:36
INTERNAL STANDARD	VERIFIED	09:36
EXTERNAL STANDARD	0.196	09:37
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.197	09:38
BLANK TEST	0.000	09:39
EXTERNAL STANDARD	0.197	09:40
BLANK TEST	0.000	09:40
EXTERNAL STANDARD	0.197	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.196	09:42
BLANK TEST	0.000	09:43

Average = 0.1966
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

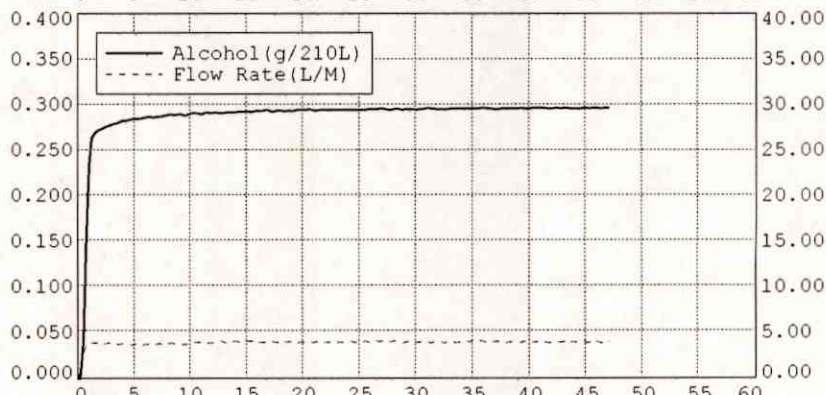
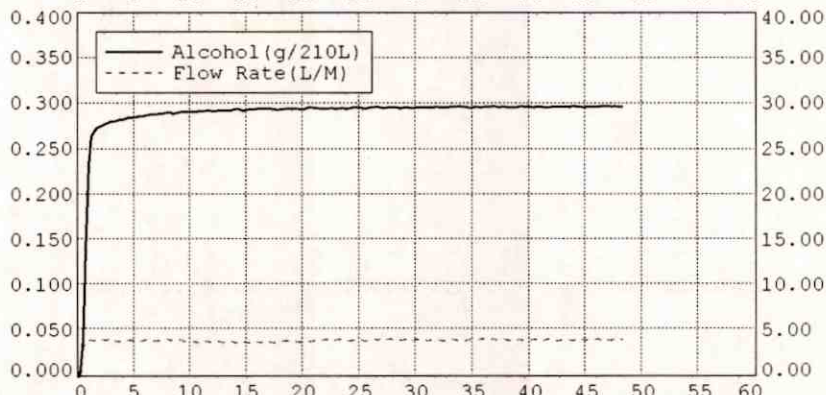
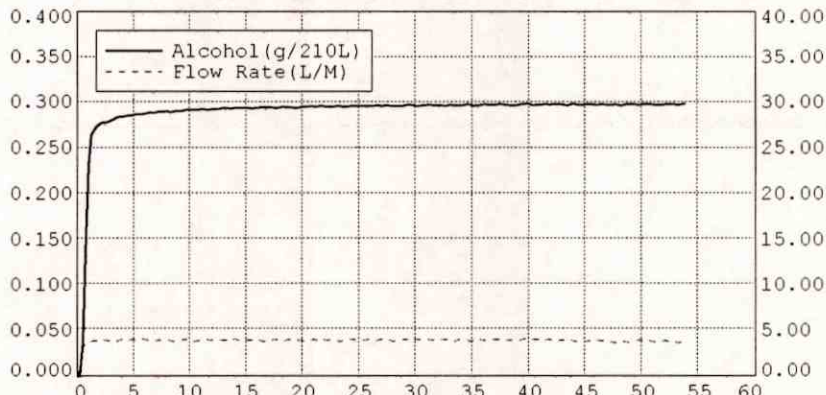
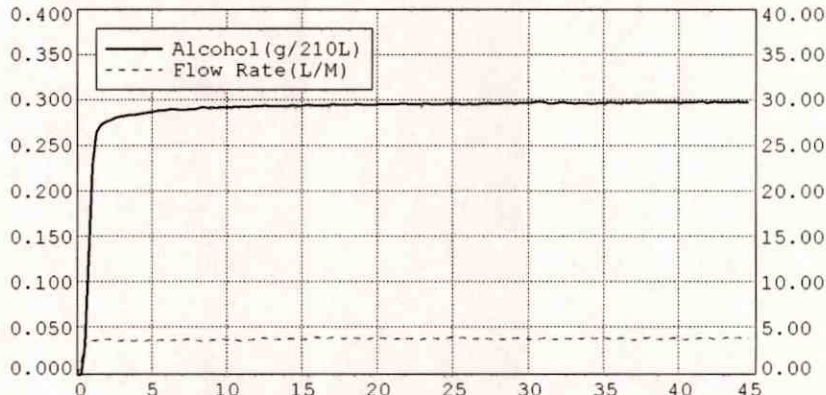
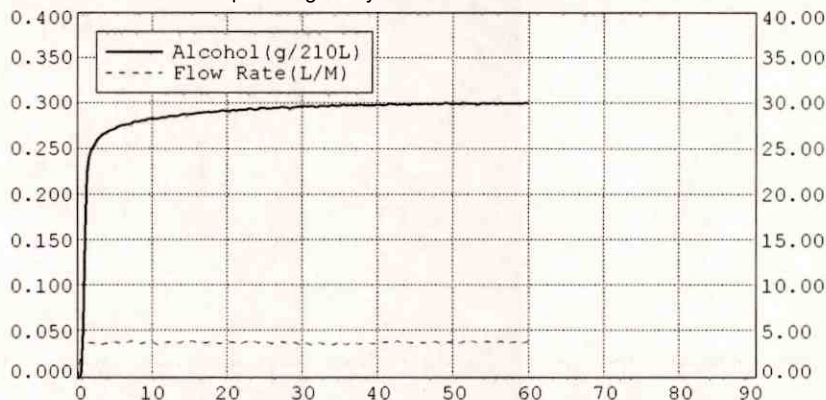
Date: 07/14/2022
 Time: 09:49:31

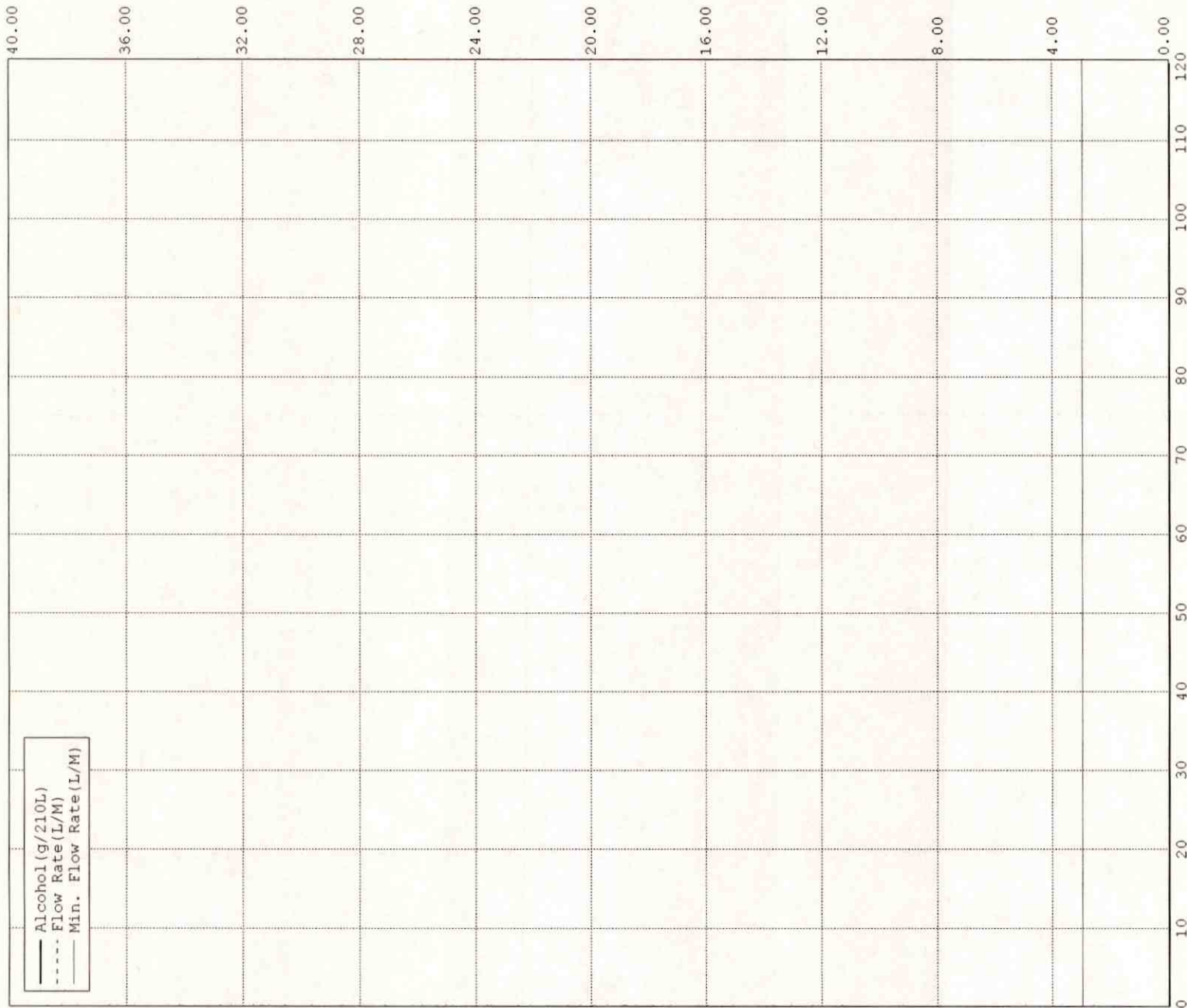
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 21030
 EXPIRATION: 02/02/2023

BLANK TEST	0.000	09:50
INTERNAL STANDARD	VERIFIED	09:50
EXTERNAL STANDARD	0.300	09:51
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.297	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.297	09:55
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.296	09:57
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.295	09:59
BLANK TEST	0.000	10:00

Average = 0.2970
 Std Dev = 0.0019





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100413

 Date: 07/14/2022
 Time: 10:06:47

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

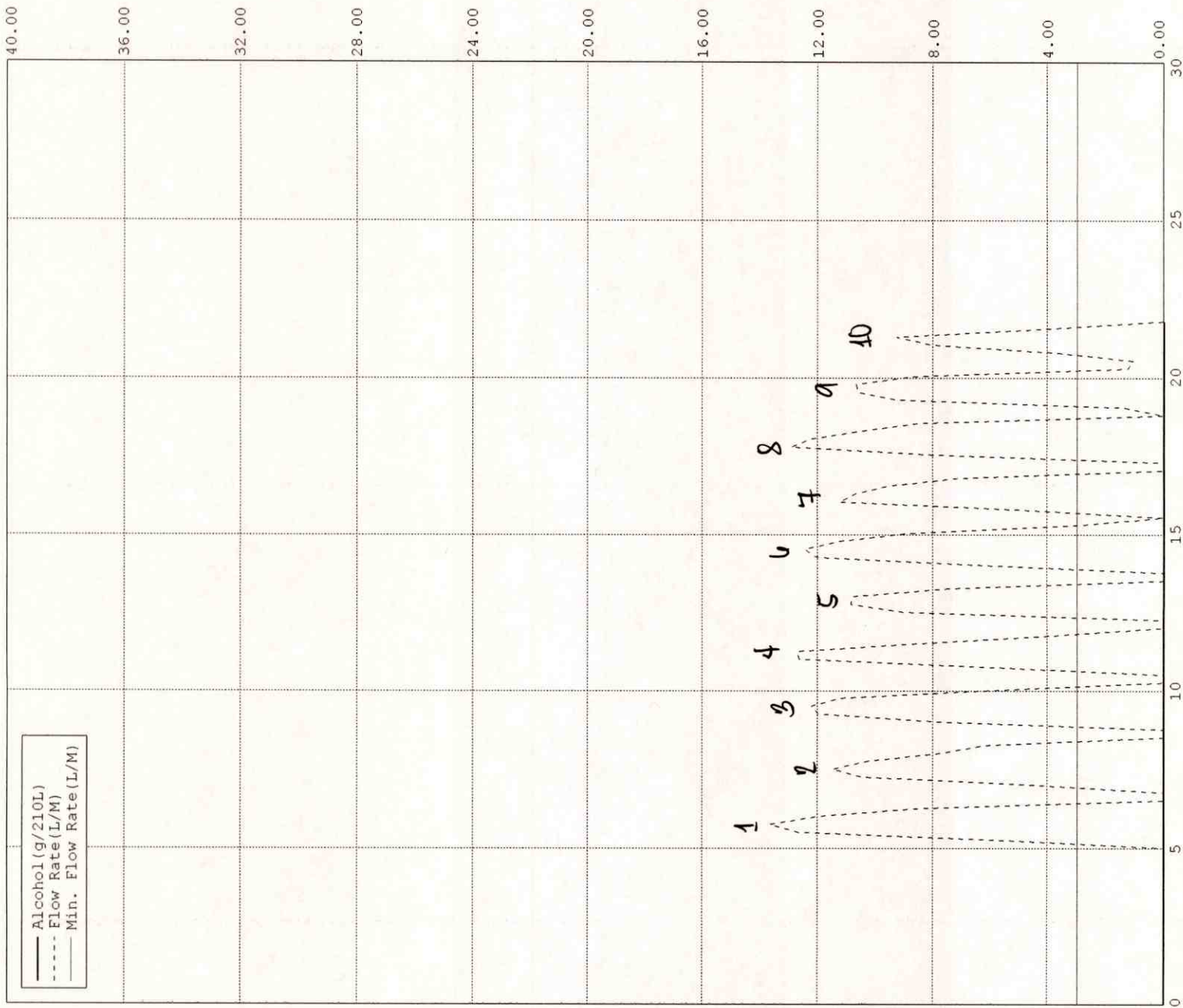
OPERATOR NAME:
 TATIANA LEE
OPERATOR'S #: 10437

DEPT/AGENCY: incomplete test
 XXX
CASE/REPORT: XXX
TEST TYPE: TEST
 TAL 07/14/22

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 10:07
BLANK TEST 0.000 10:07
INTERNAL STANDARD VERIFIED 10:08
EXTERNAL STANDARD 0.079 10:08
BLANK TEST 0.000 10:09
SUBJECT SAMPLE INCOMPLETE 10:11

TAL



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

Date: 07/14/2022
 Time: 10:14:39

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

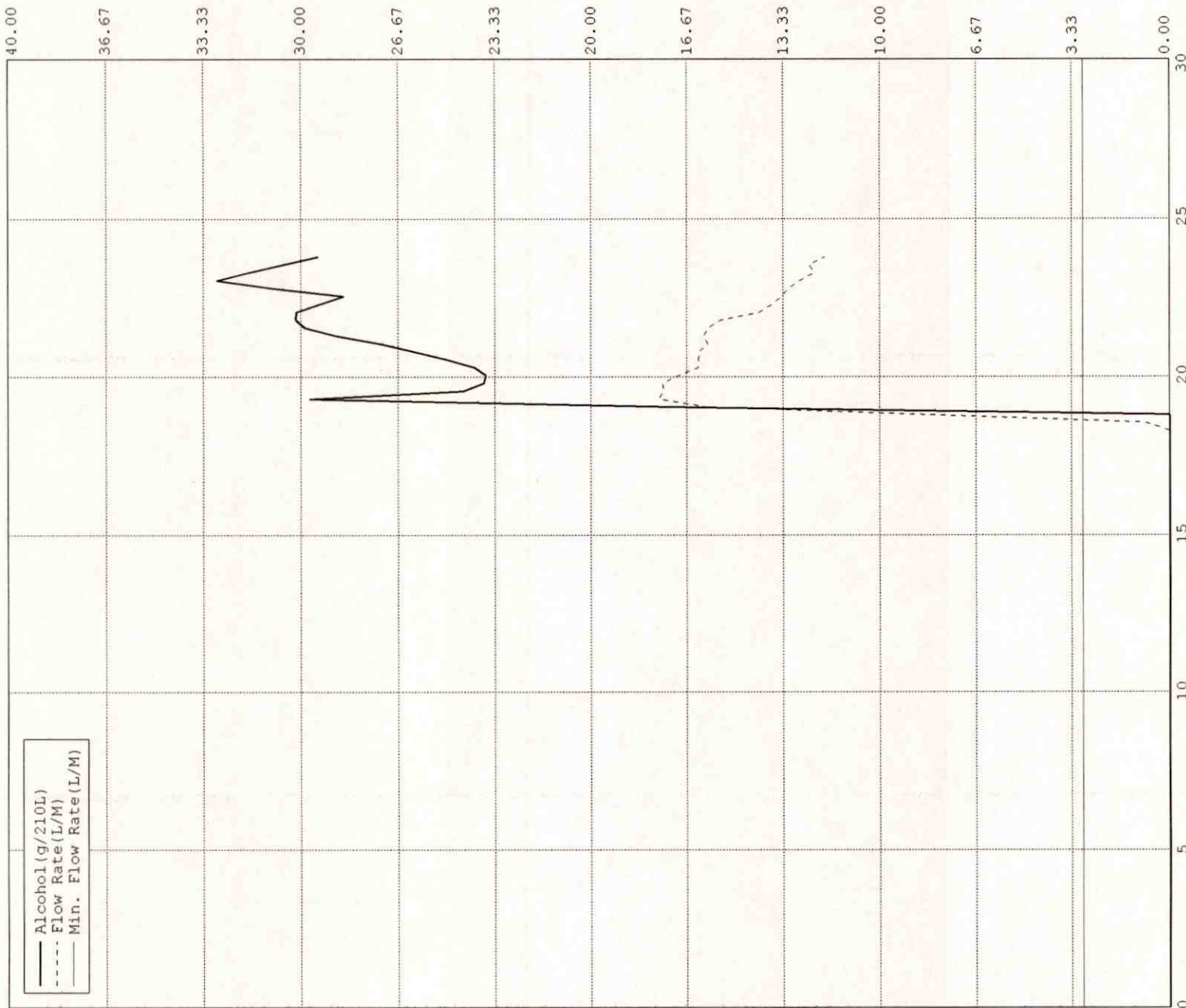
DEPT/AGENCY: **Maximum Attempts Exceeded**
 XXX
 CASE/REPORT: XXX
 TEST TYPE: TEST
 AL 07/14/22

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 10:15
 BLANK TEST 0.000 10:15
 INTERNAL STANDARD VERIFIED 10:15
 EXTERNAL STANDARD 0.079 10:16
 BLANK TEST 0.000 10:17
 SUBJECT SAMPLE XXX 10:17

Maximum Attempts Exceeded

TAL



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100413

 Date: 07/14/2022
 Time: 12:35:37

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

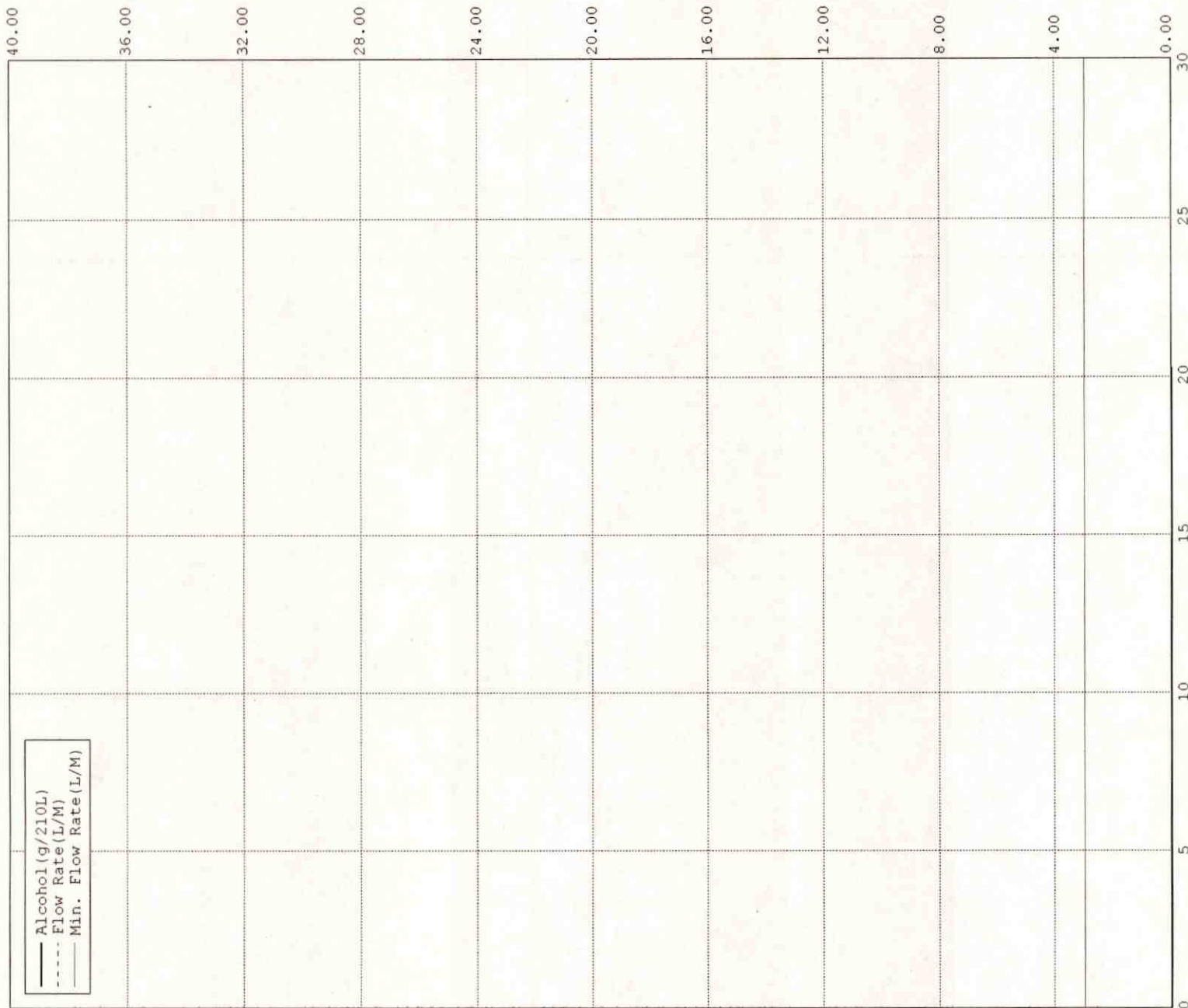
OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

DEPT/AGENCY: *invalid test*
 XXX
 CASE/REPORT: XXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:36
BLANK TEST	0.000	12:36
INTERNAL STANDARD	VERIFIED	12:37
EXTERNAL STANDARD	0.079	12:37
BLANK TEST	0.000	12:38
SUBJECT SAMPLE	INVALID	12:39

TAL



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100413

Date: 07/14/2022

Time: 12:53:31

SUBJECT NAME:

TEST TEST

LICENSE #: XXX

OPERATOR NAME:

TATIANA LEE

OPERATOR'S #: 10437

DEPT/AGENCY:

RFI

CASE/REPORT: XXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.61: 0.079

LOT #: AG113402

EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

PASSED 12:54

0.000 12:54

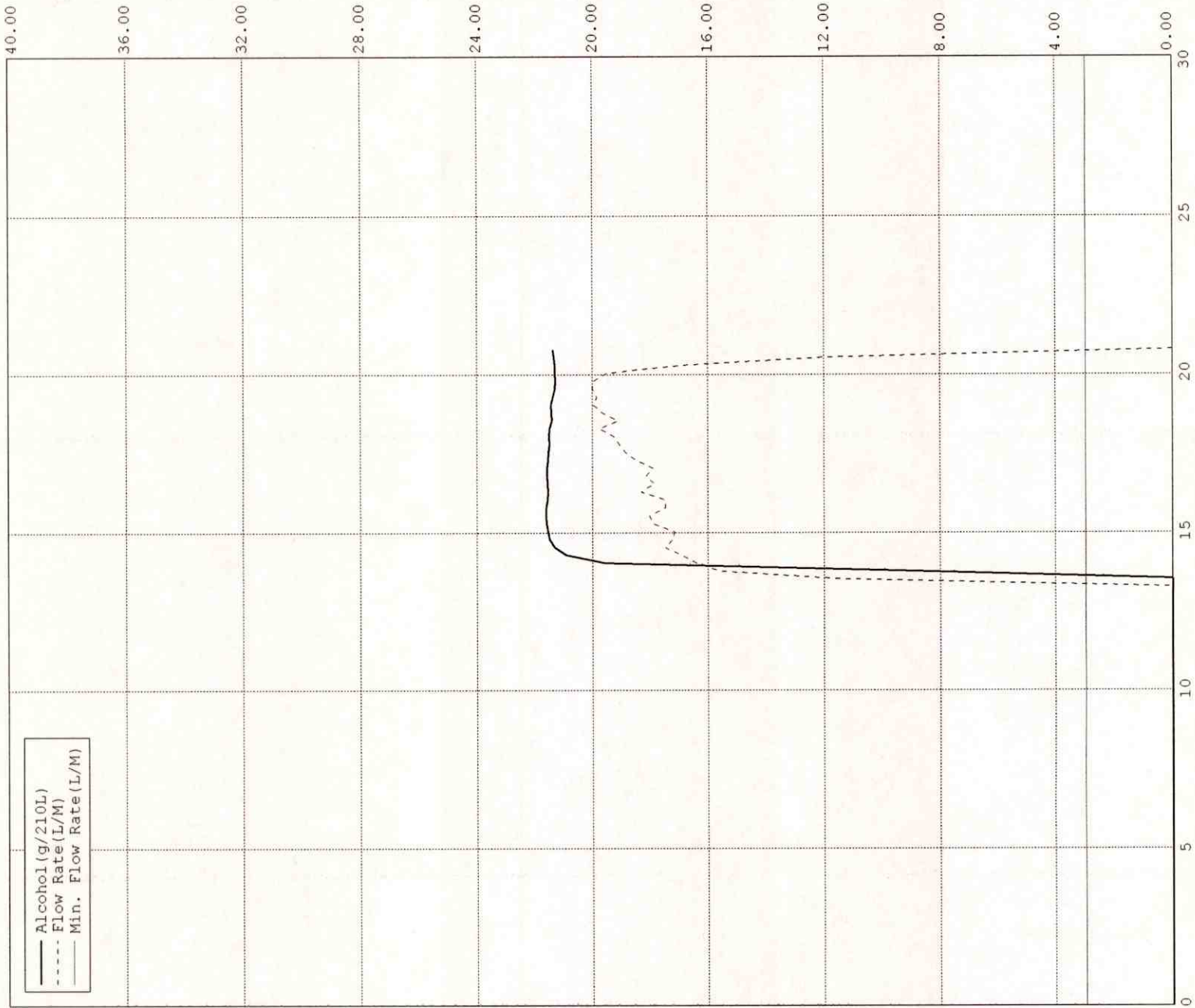
VERIFIED 12:54

0.080 12:54

0.000 12:55

RFI DETECTED

TAL



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

SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100413

 Date: 07/14/2022
 Time: 13:18:19

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

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

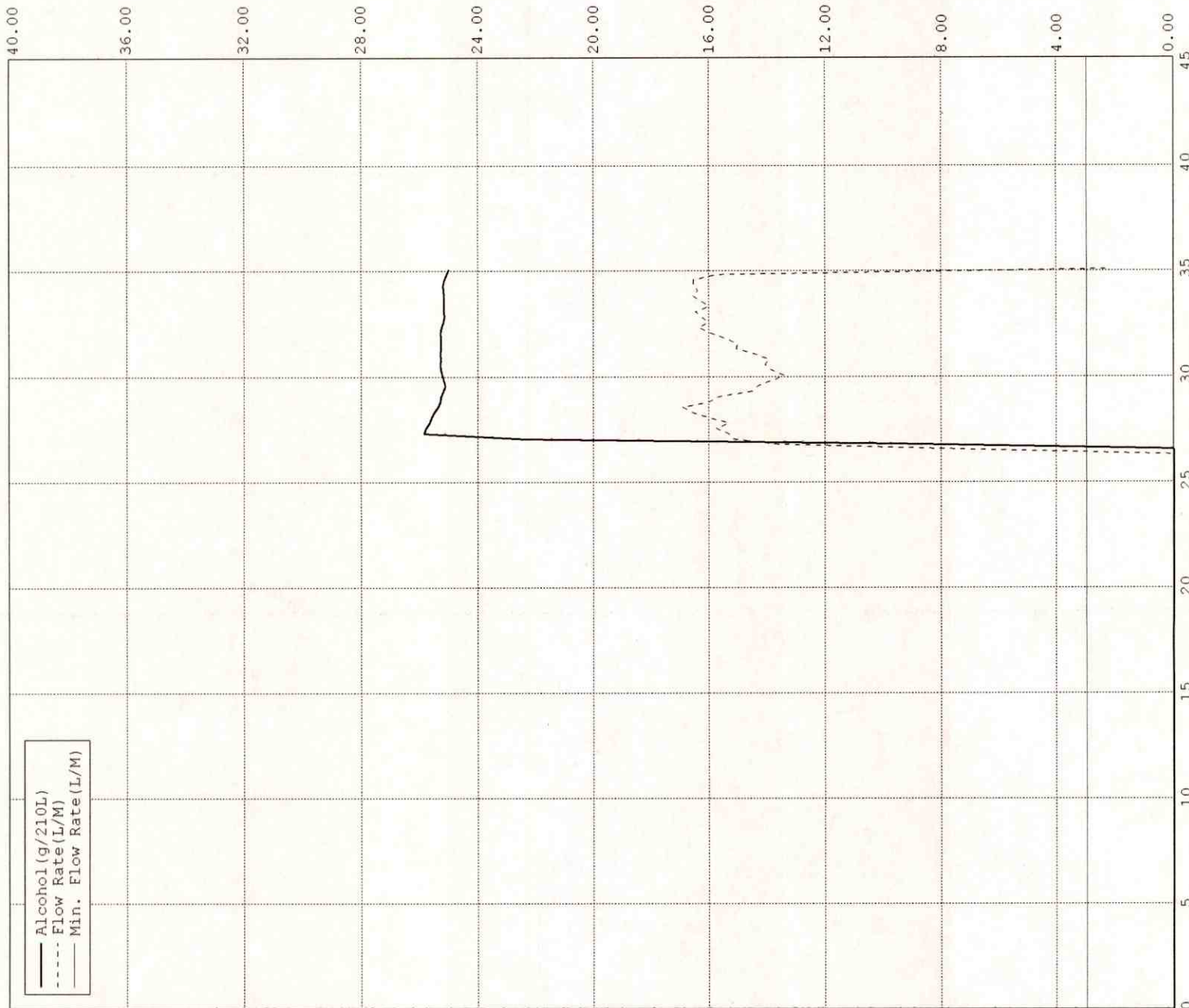
EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 13:19
 BLANK TEST 0.000 13:19
 INTERNAL STANDARD VERIFIED 13:19
 Xg = 0.080 (0.66%)
 EXTERNAL STANDARD 0.080 13:19
 X[1] = 0.0796 (0.0000) (0.0025)
 BLANK TEST 0.000 13:20
 SUBJECT SAMPLE XXX 13:21
 X[1] = 0.1076 (-0.0182) (0.0003)

Interference Detected

*FILTER 2 AVG: 0.0000
 FILTER 3 AVG: 0.0021
 TAL 07/15/2022*

TAL



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100413

 Date: 07/14/2022
 Time: 13:04:32

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
OPERATOR'S #: 10437

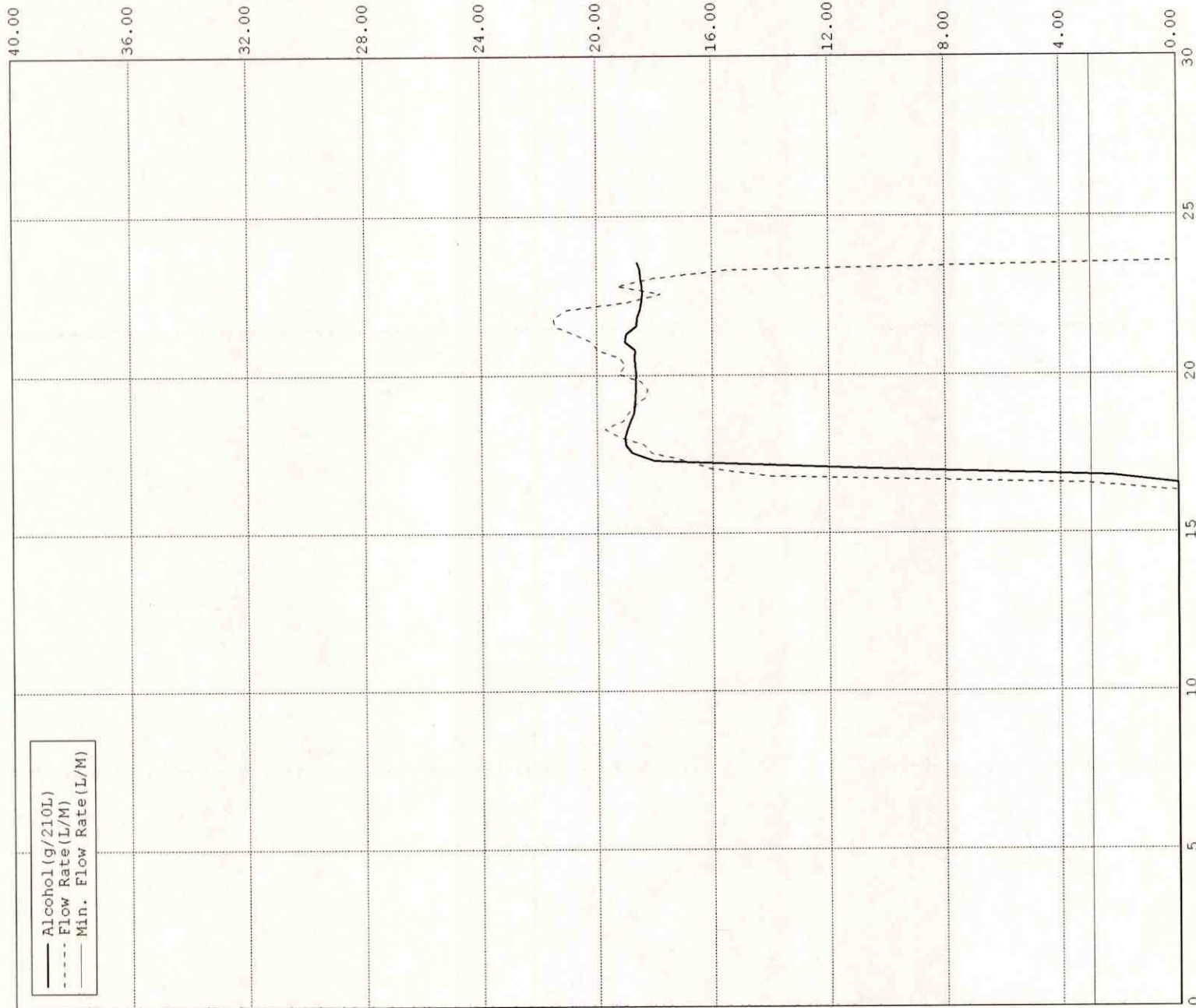
DEPT/AGENCY:
 INTERFERENCE IPA
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 13:06
BLANK TEST 0.000 13:06
INTERNAL STANDARD VERIFIED 13:06
 Xq = 0.080 (1.10%)
EXTERNAL STANDARD 0.080 13:07
 X[1] = 0.0796 (0.0008) (0.0023)
BLANK TEST 0.000 13:08
SUBJECT SAMPLE XXX 13:08
 X[1] = 0.1257 (-0.0234) (0.0014)

Interference Detected

TA



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100413

Date: 07/14/2022
 Time: 13:11:05

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

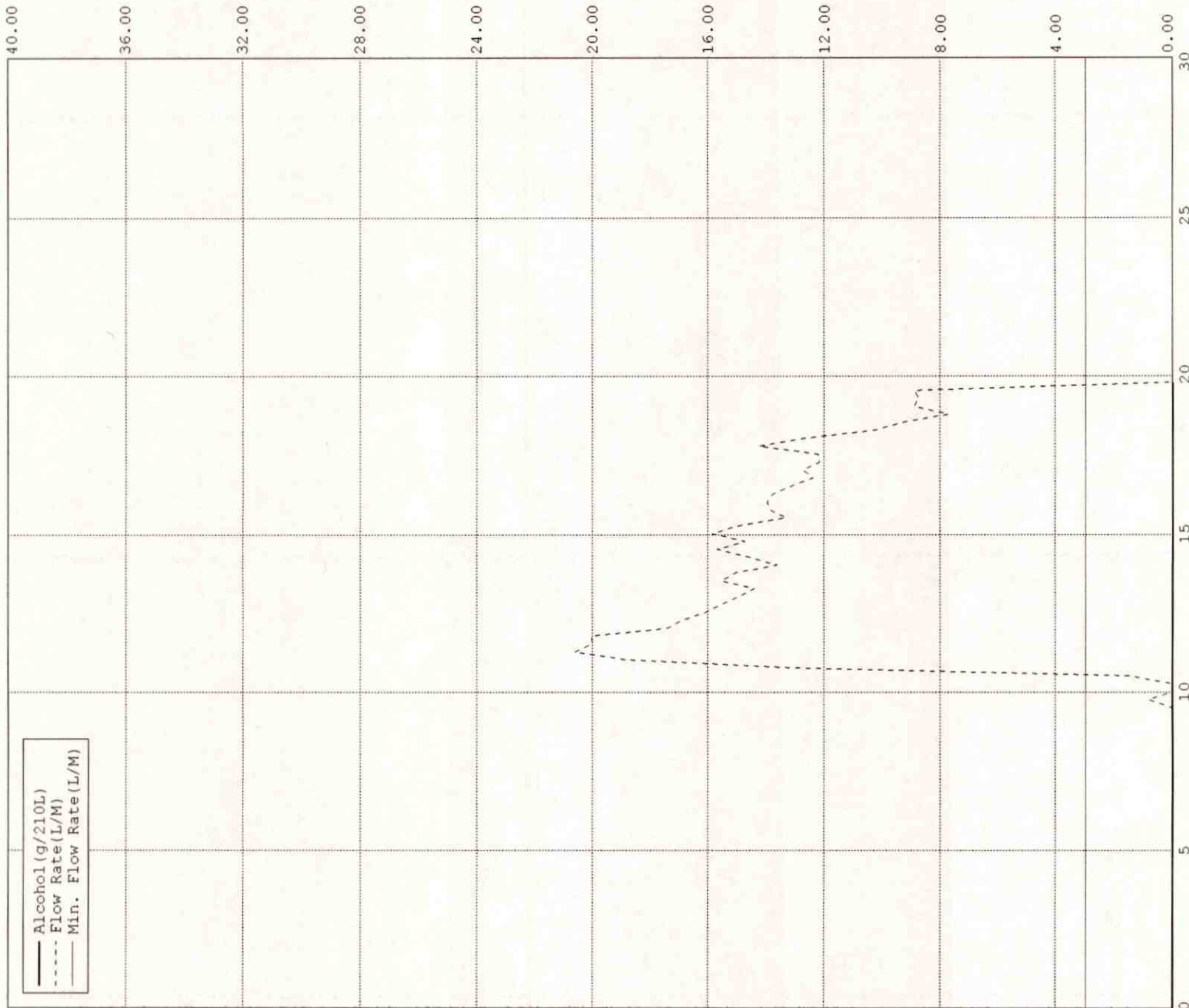
OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

DEPT/AGENCY:
 INTERFERENCE NEG CONTROL
 CASE/REPORT: XXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:12
BLANK TEST	0.000	13:12
INTERNAL STANDARD	VERIFIED	13:12
Xq = 0.080 (0.77%)		
EXTERNAL STANDARD	0.079	13:12
X[1] = 0.0795 (0.0006)	(0.0017)	
BLANK TEST	0.000	13:13
SUBJECT SAMPLE (Vol=2.13L)	0.093	13:14
X[1] = 0.0937 (0.0013)	(0.0002)	
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.079	13:15
X[1] = 0.0788 (0.0010)	(0.0017)	
BLANK TEST	0.000	13:16

TAL



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100413

 Date: 07/14/2022
 Time: 14:08:07

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

DEPT/AGENCY:
 NON DRINKING TEST
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	14:09
BLANK TEST	0.000	14:09
INTERNAL STANDARD	VERIFIED	14:09
EXTERNAL STANDARD	0.080	14:09
BLANK TEST	0.000	14:10
SUBJECT SAMPLE (Vol=2.11L)	0.000	14:11
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.080	14:12
BLANK TEST	0.000	14:13

TKU