

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 100352 Analyst Brandi Barnett Start Date 6/18/22

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 1.5 L (1.3L to 1.7L)

Linearity Test (attached)

Levels Used

- i. 0.020g/210L Mnf Airgas Lot AG928203 Exp 10/9/21
- ii. 0.040g/210L Mnf Airgas Lot AG111710 Exp 4/27/23
- iii. 0.080g/210L Mnf Airgas Lot AG018102 Exp 6/29/22
- iv. 0.100g/210L Mnf Airgas Lot AG924701 Exp 9/4/21
- v. 0.200g/210L Mnf Guth Lot 19200 Exp 8/6/21
Simulator S/N DR4 DR62167 Date Calibrated 11/17/20
- vi. 0.300g/210L Mnf Guth Lot 19330 Exp 11/13/21
Simulator S/N DR4177 Date Calibrated 11/17/20

Functional Tests (attached)

Incomplete

Invalid

Interference

- i. Acetone - Mnf Guth Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N DR4178 Date Calibrated 11/18/20
- ii. Isopropanol - Mnf Guth Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N DR7176 Date Calibrated 11/18/20
- iii. Negative Control - Mnf Guth Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N DR4163 Date Calibrated 11/17/20

Exceeded Attempts

RFI

Verify stylus is calibrated

Verification of Calibration

Reset Options

Non-Drinking Subject Test (attached)

Clear Memory

Upload

Remove tank prior to shut down

Add Linearity Data to Spreadsheet

End Date 6/23/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/18/2021
Time: 10:33:51

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.82 V PASSED
(1.09 V - 2.55 V)
Cooler Voltage = 1.80 V PASSED
(1.08 V - 2.52 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 518 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.915 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 1.33% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100352

Date: 06/18/2021
Time: 10:44 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 46.6°C

Current Barometer 29.8 in
Volume (Ltr) 1.52

Settings

Lamp: 1.80 V
Bias: 80 V
Cooler: 1.72 V
Chopper: 513 Hz

Voltages (V)

Flow: 1.03 V
Detector: -0.028 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 05/24/2021
Time: 06:23:14

OPERATOR NAME:
ST LOUIS INTOX A TECH
CERTIFICATE #: OU812

Ca = 0.1000
CAL = 0.989611 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0054 0.0010 <= b2 < 0.0100
b3 = 0.0007 0.0000 <= b3 < 0.0040
Xq = 0.0854 0.0500 <= Xq < 0.2000
a21 = 1.140227 1.050 <= a21 < 1.300
a31 = 0.456264 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/18/2021
Time: 10:45:53

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

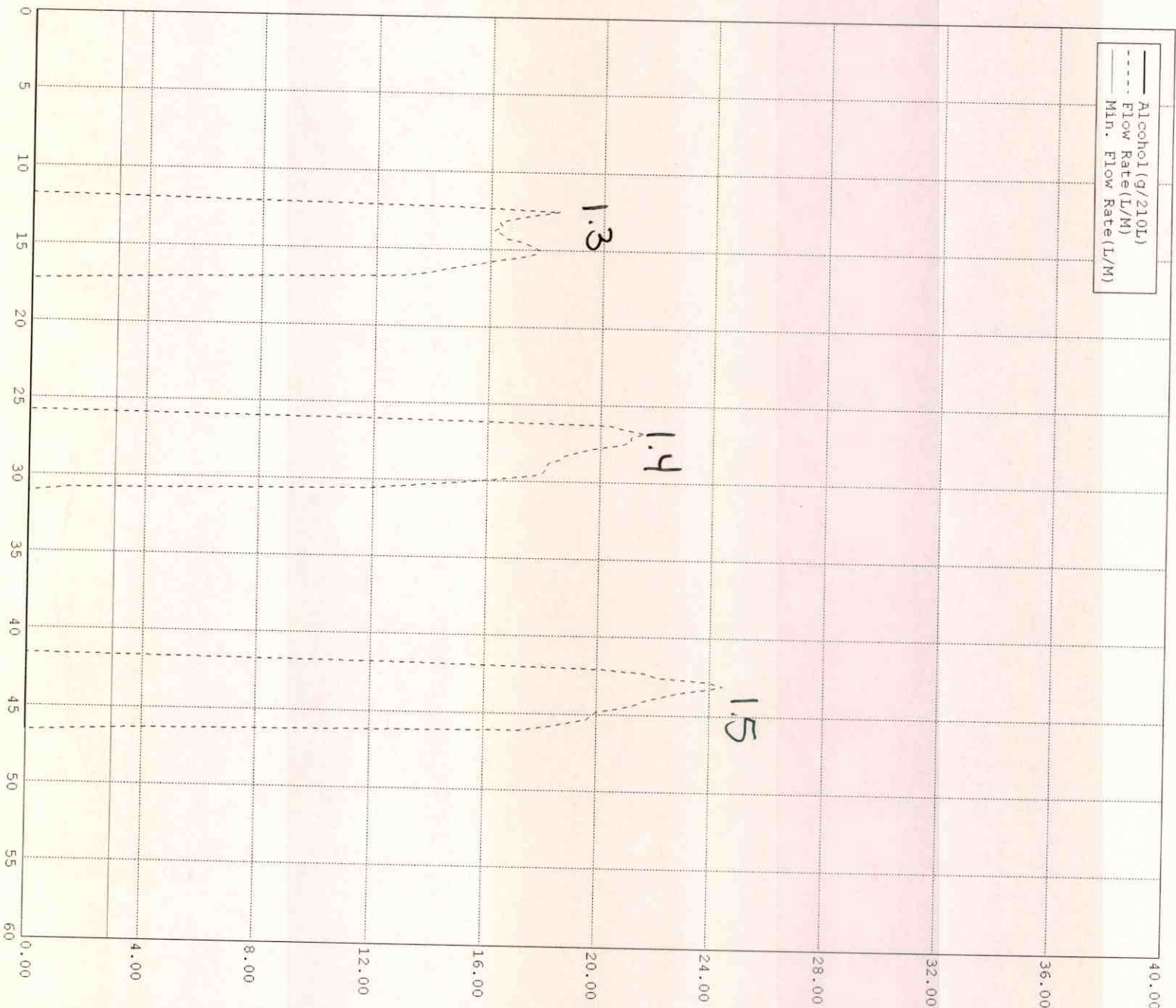
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	10:47
INTERNAL STANDARD	0.000	10:47
EXTERNAL STANDARD	0.080	10:47
BLANK TEST	0.000	10:48
SUBJECT SAMPLE (Vol=1.57L)	0.000	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.080	10:50
BLANK TEST	0.000	10:51

BRMB



LINEARITY CHECK

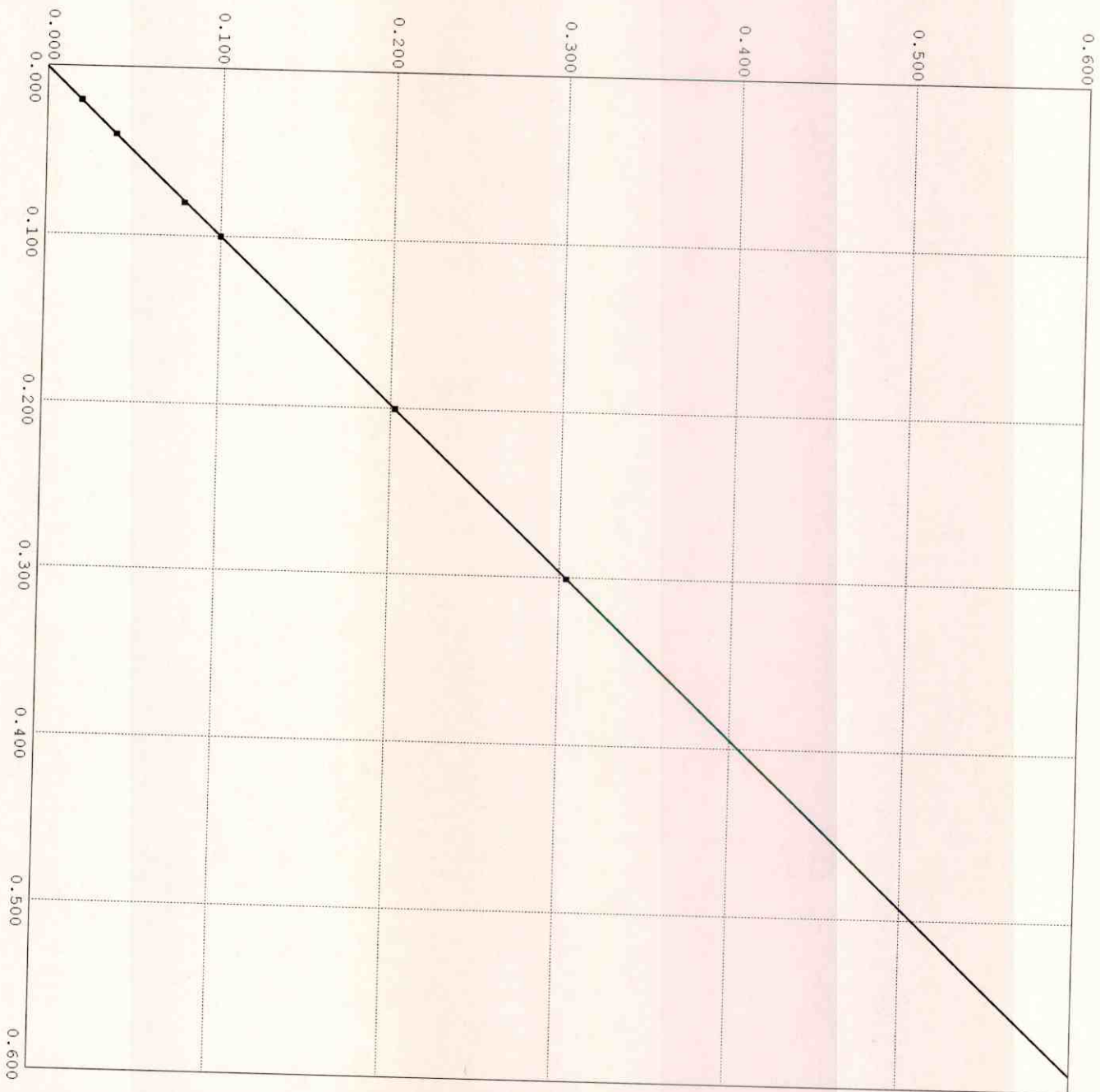
Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/18/2021
Time: 11:04:32

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.040	0.0404	0.0005
0.080	0.0800	0.0000
0.100	0.1010	0.0000
0.200	0.2034	0.0005
0.300	0.3048	0.0004

SLOPE = 1.018051
R² = 0.999980



BNB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

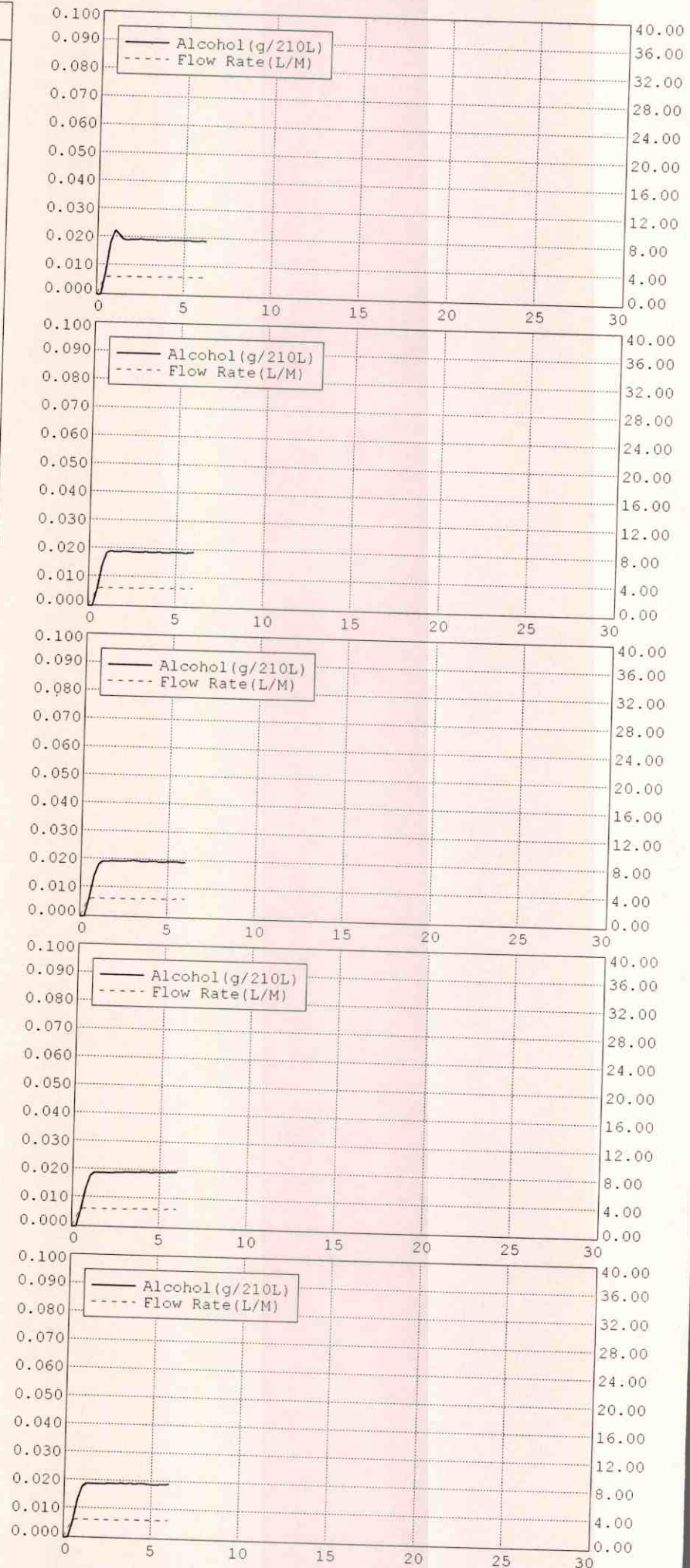
Date: 06/18/2021
 Time: 11:04:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.77: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 406 psi

BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:07
EXTERNAL STANDARD	0.020	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.020	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.021	11:10
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.020	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.020	11:12
BLANK TEST	0.000	11:13

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

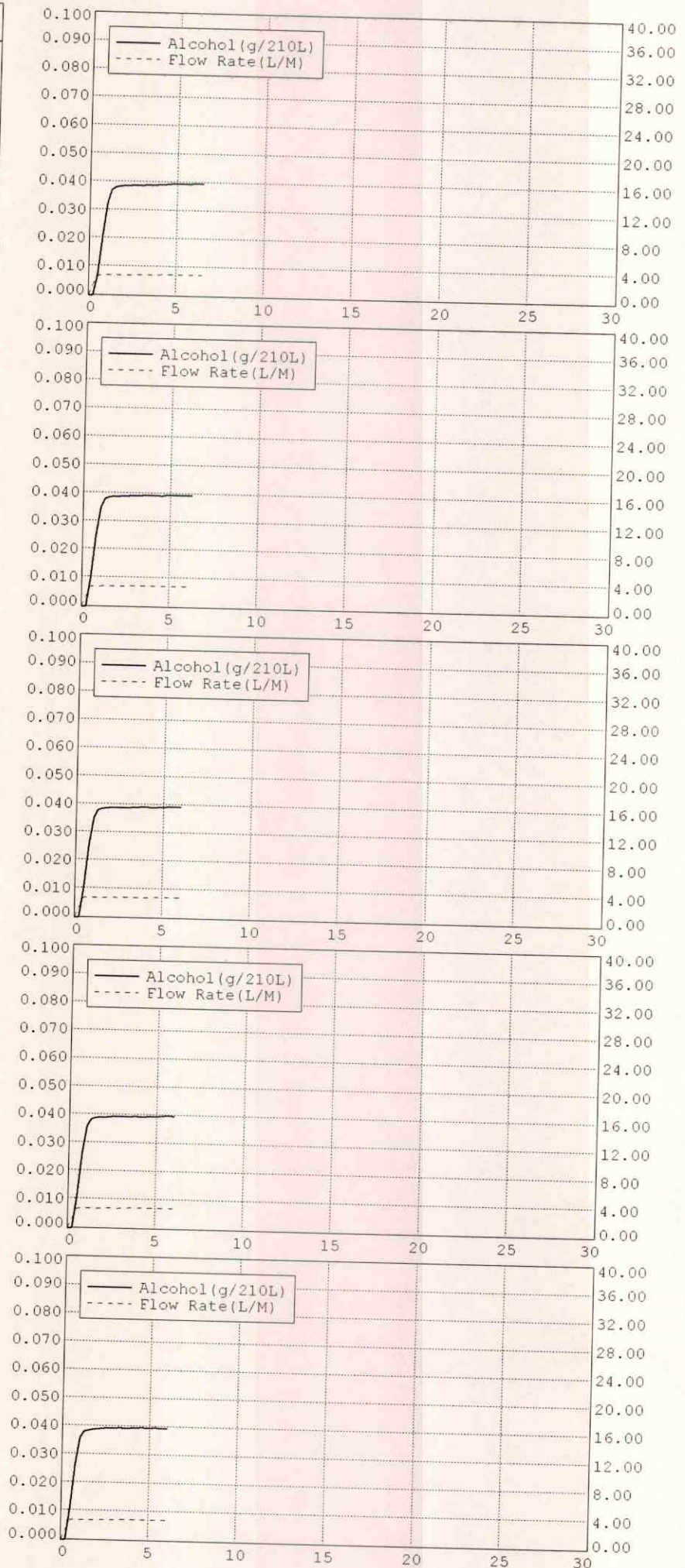
Date: 06/18/2021
 Time: 11:25:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.78: 0.040
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 1112 psi

BLANK TEST	0.000	11:26
INTERNAL STANDARD	VERIFIED	11:26
EXTERNAL STANDARD	0.040	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.040	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.040	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.041	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.041	11:31
BLANK TEST	0.000	11:32

Average = 0.0404
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

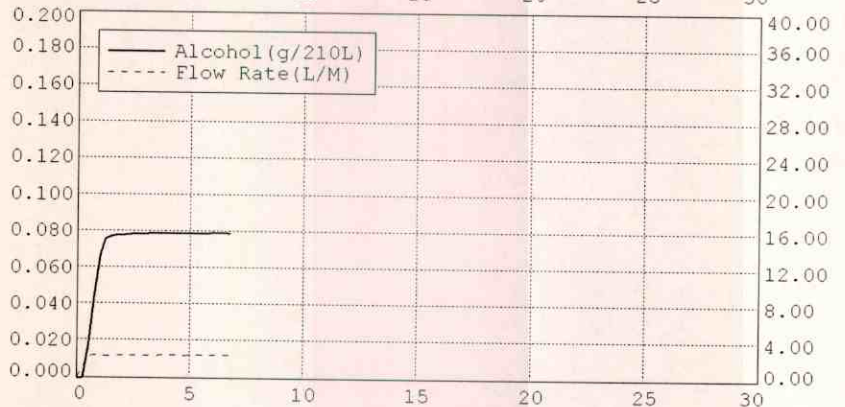
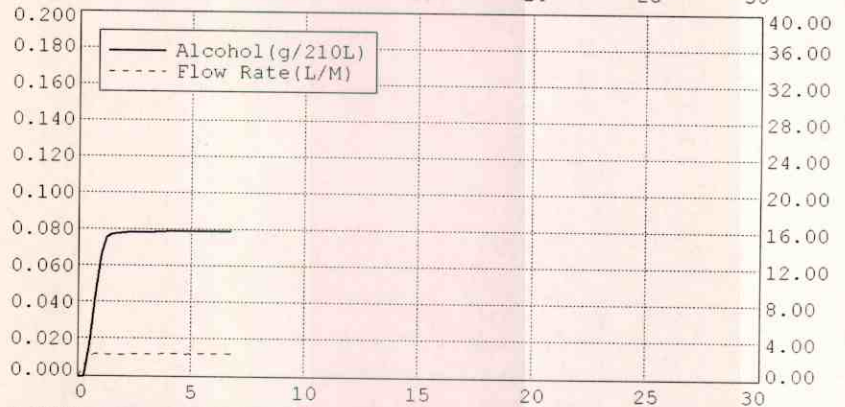
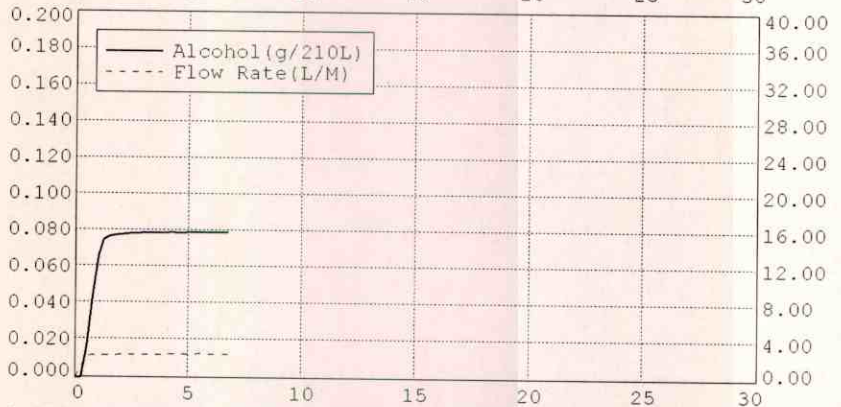
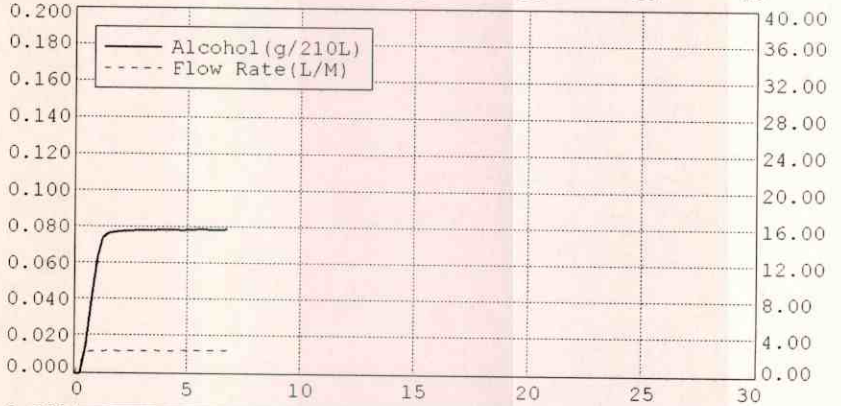
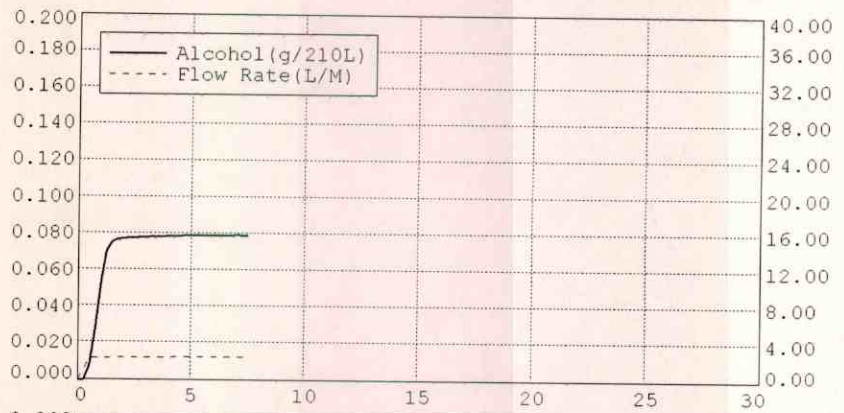
Date: 06/18/2021
 Time: 11:37:44

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.77: 0.080
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 298 psi

BLANK TEST	0.000	11:39
INTERNAL STANDARD	VERIFIED	11:39
EXTERNAL STANDARD	0.080	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.080	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.080	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.080	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.080	11:44
BLANK TEST	0.000	11:45

Average = 0.0800
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

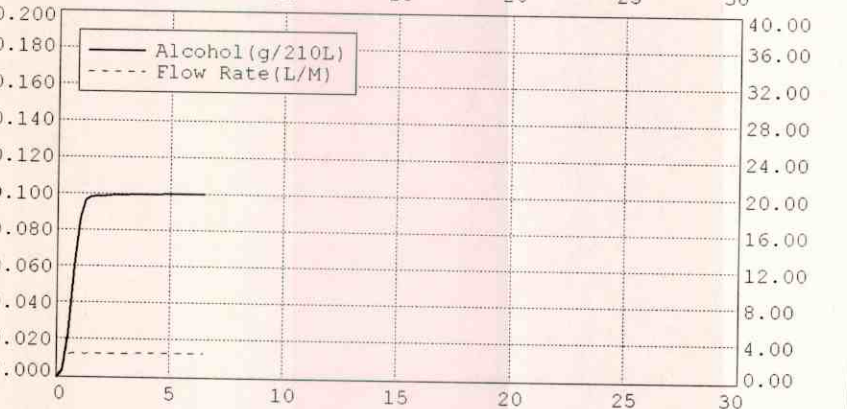
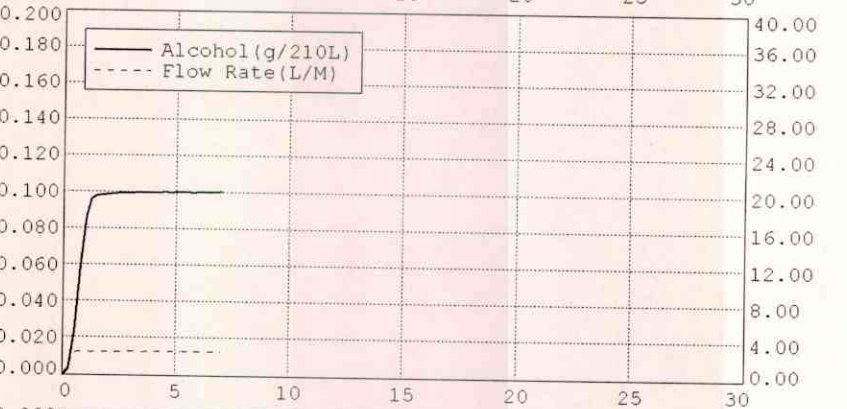
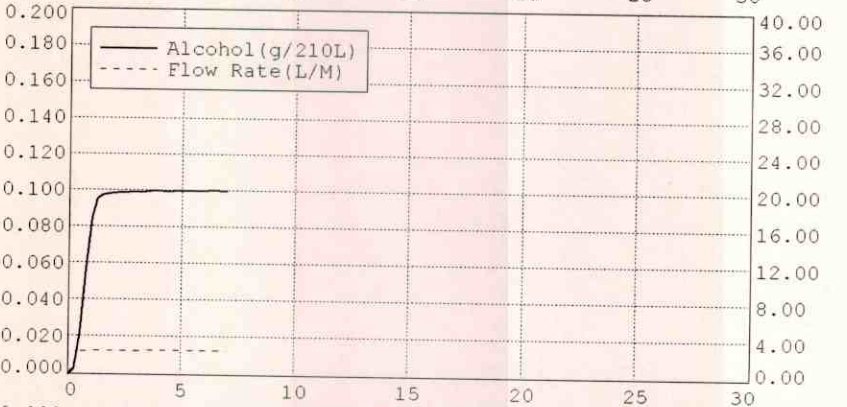
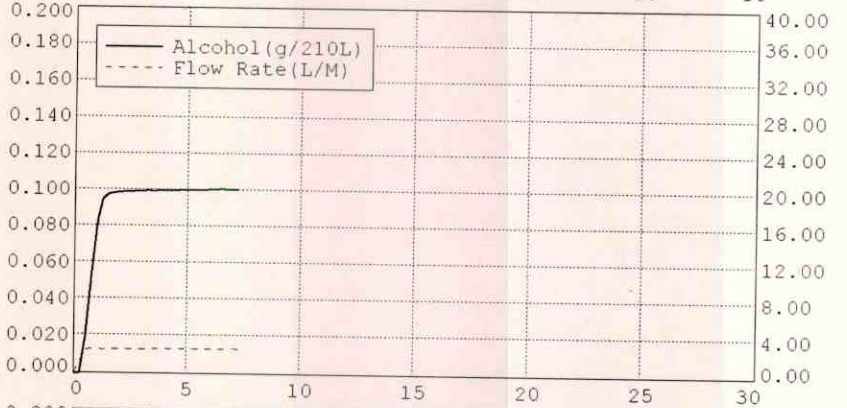
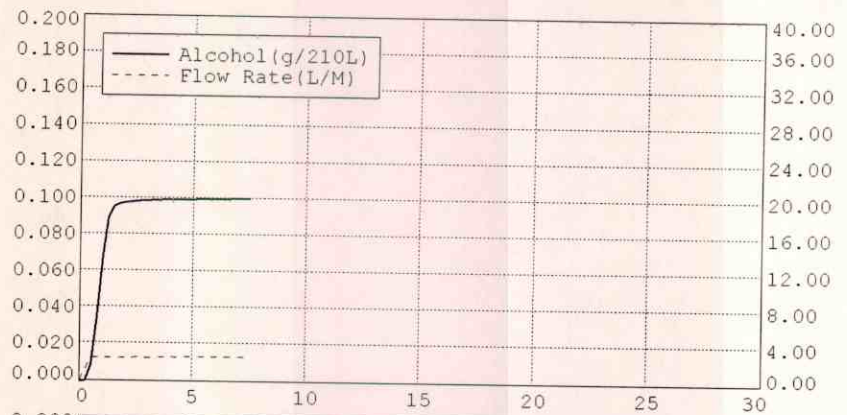
Date: 06/18/2021
 Time: 12:40:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.77: 0.100
 LOT #: AG924701
 EXPIRATION: 09/04/2021
 TANK PRESSURE: 433 psi

BLANK TEST	0.000	12:41
INTERNAL STANDARD	VERIFIED	12:41
EXTERNAL STANDARD	0.101	12:42
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.101	12:43
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.101	12:44
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.101	12:45
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.101	12:46
BLANK TEST	0.000	12:47

Average = 0.1010
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

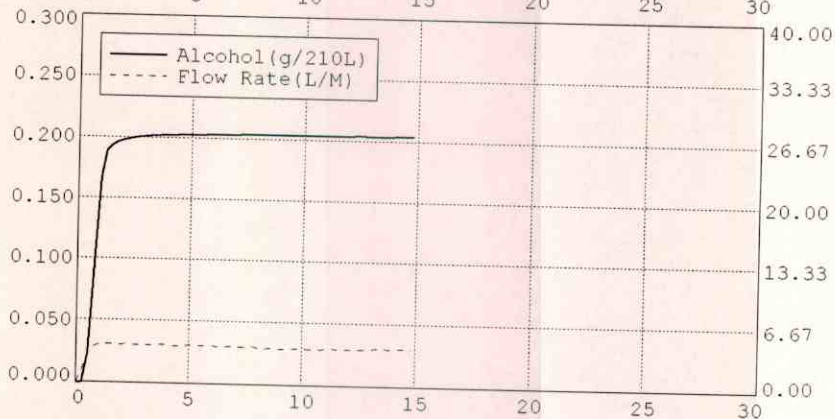
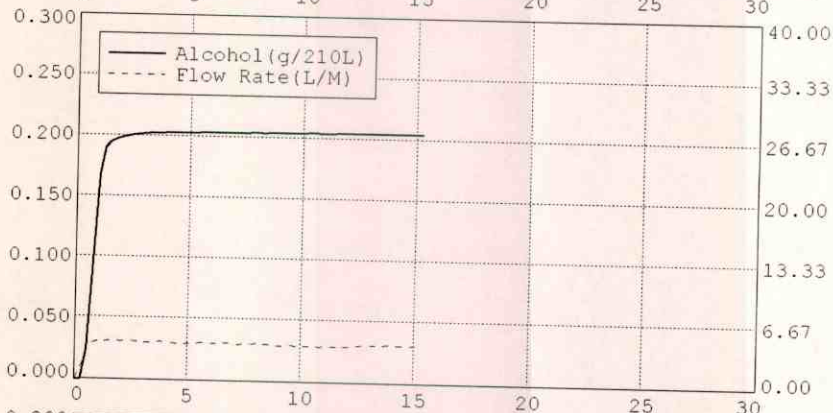
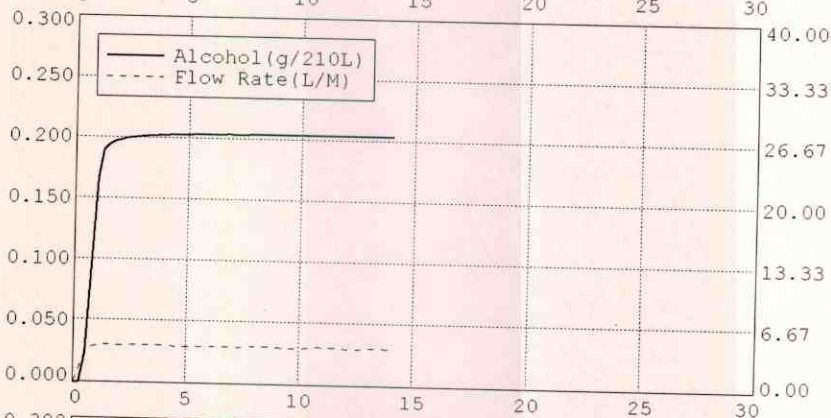
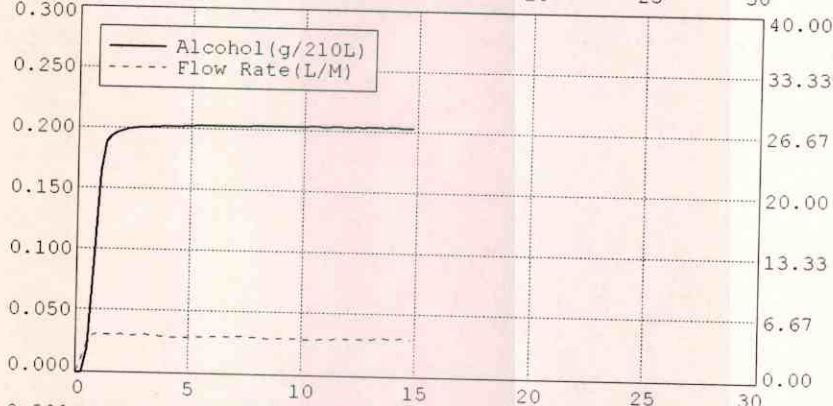
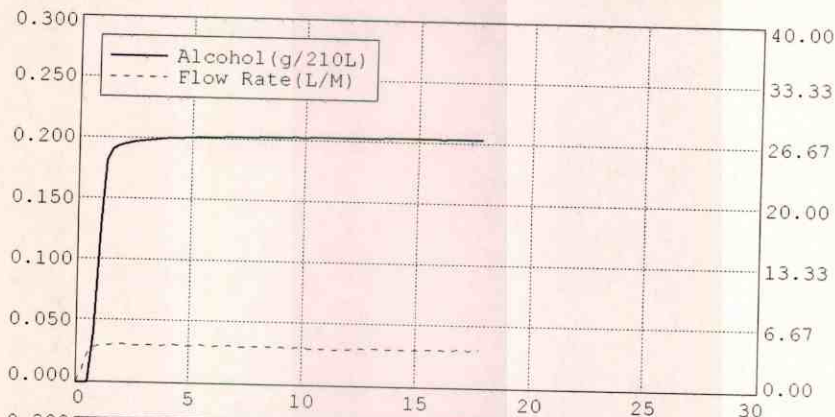
Date: 06/18/2021
 Time: 12:56:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: GUTH 19200
 EXPIRATION: 08/06/2021

BLANK TEST	0.000	12:58
INTERNAL STANDARD	VERIFIED	12:58
EXTERNAL STANDARD	0.203	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.203	13:00
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.203	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.204	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.204	13:03
BLANK TEST	0.000	13:04

Average = 0.2034
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

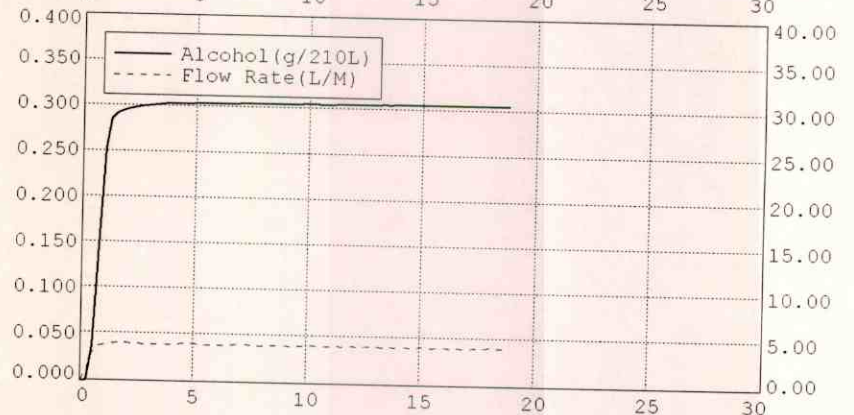
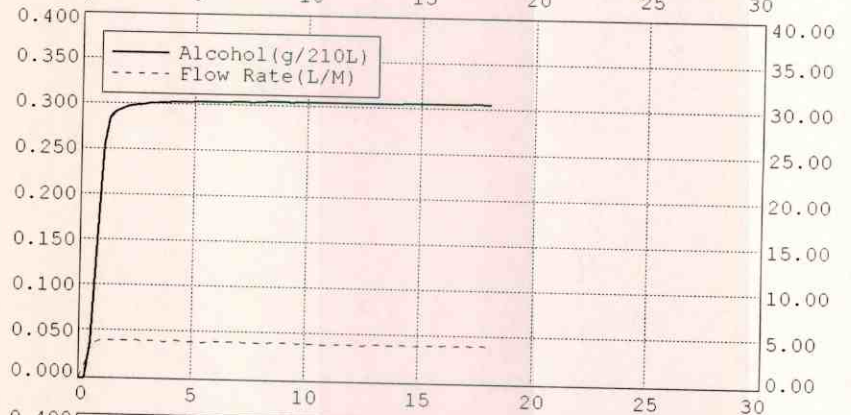
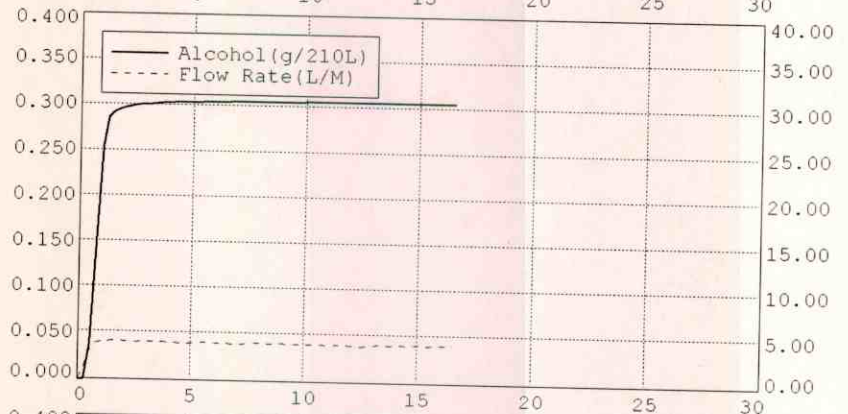
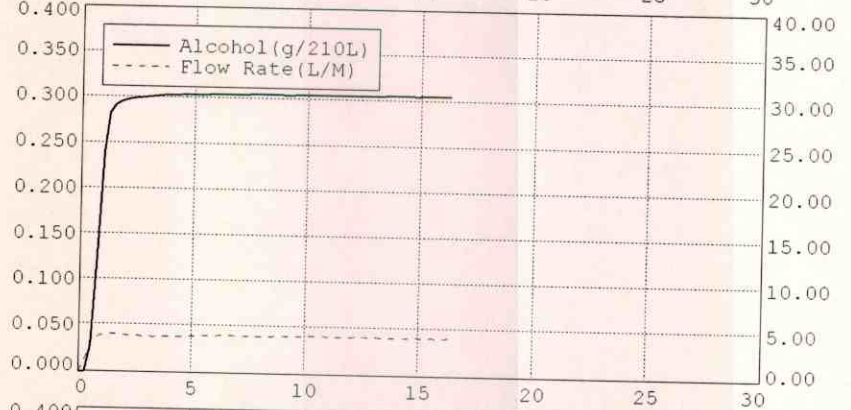
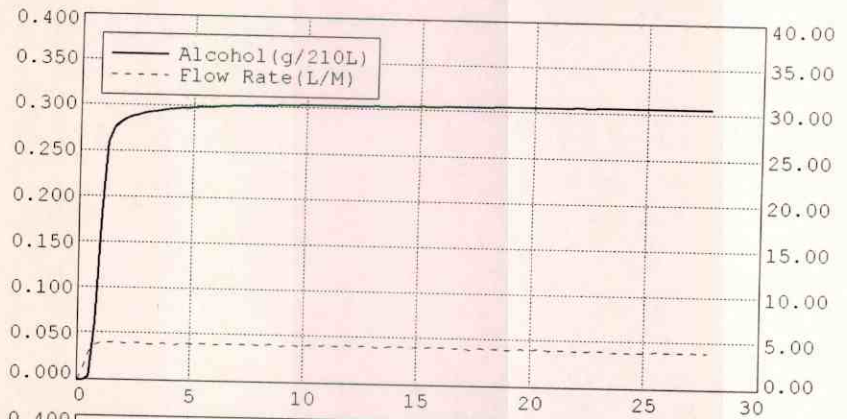
Date: 06/18/2021
 Time: 13:20:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: GUTH 19330
 EXPIRATION: 11/13/2021

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
EXTERNAL STANDARD	0.305	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.304	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.305	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.305	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.305	13:27
BLANK TEST	0.000	13:28

Average = 0.3048
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/18/2021
Time: 13:40:25

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

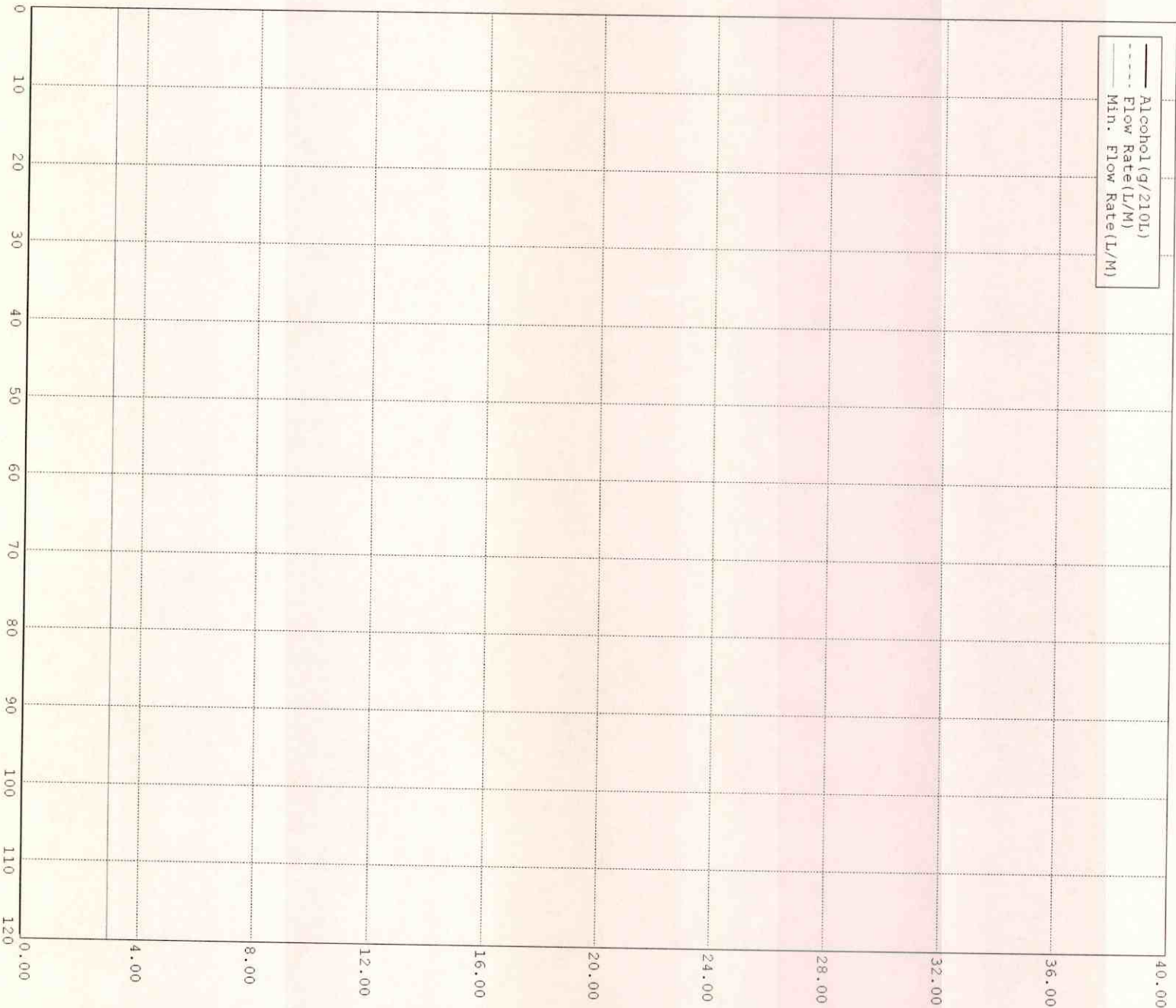
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.79: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	13:41
BLANK TEST	0.000	13:41
INTERNAL STANDARD	VERIFIED	13:41
EXTERNAL STANDARD	0.080	13:41
BLANK TEST	0.000	13:42
SUBJECT SAMPLE	INCOMPLETE	13:44

BNB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/18/2021
Time: 13:47:26

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

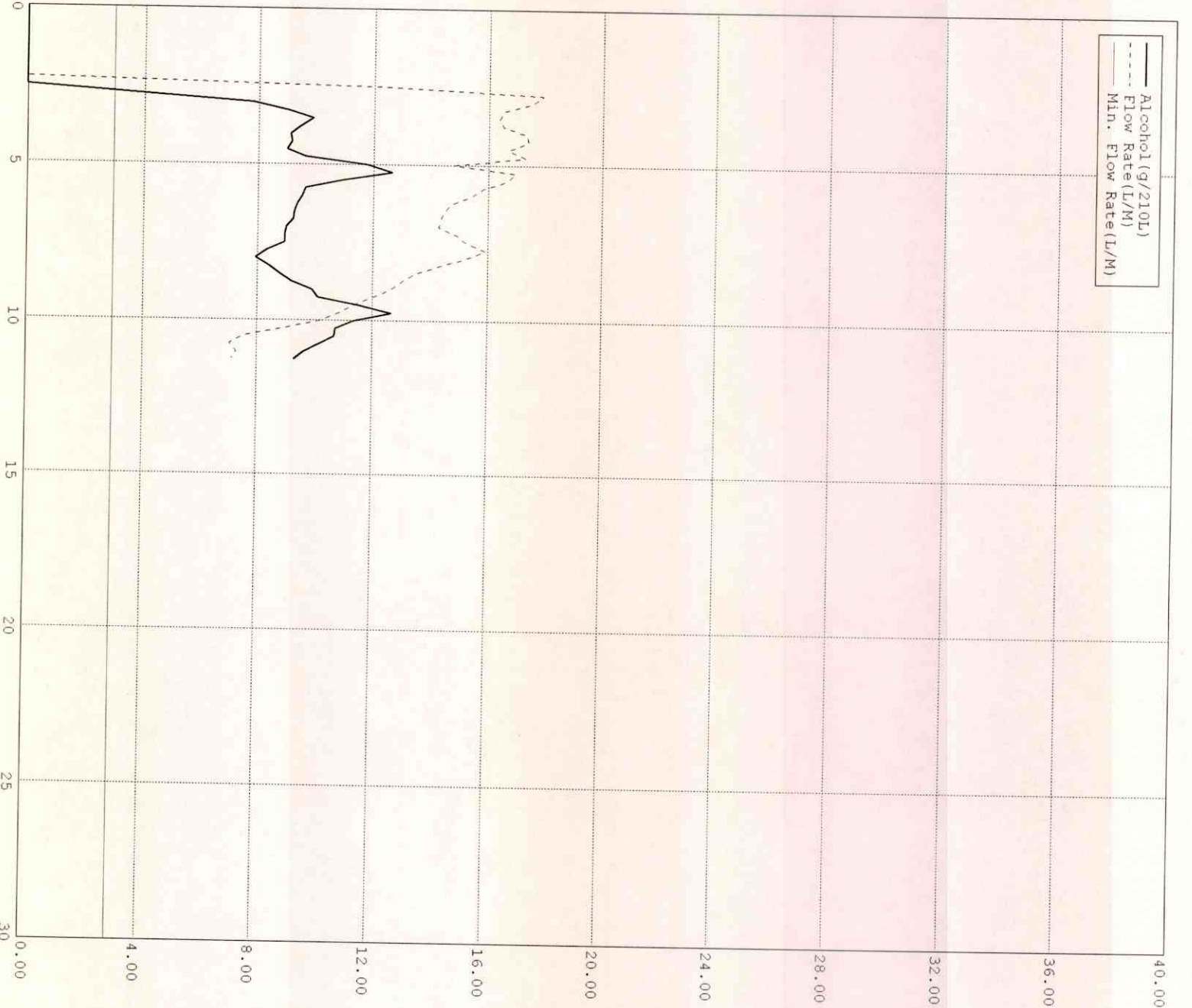
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	13:48
BLANK TEST	0.000	13:48
INTERNAL STANDARD	VERIFIED	13:48
EXTERNAL STANDARD	0.080	13:49
BLANK TEST	0.000	13:49
SUBJECT SAMPLE	INVALID	13:50

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/23/2021
Time: 14:03:14

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

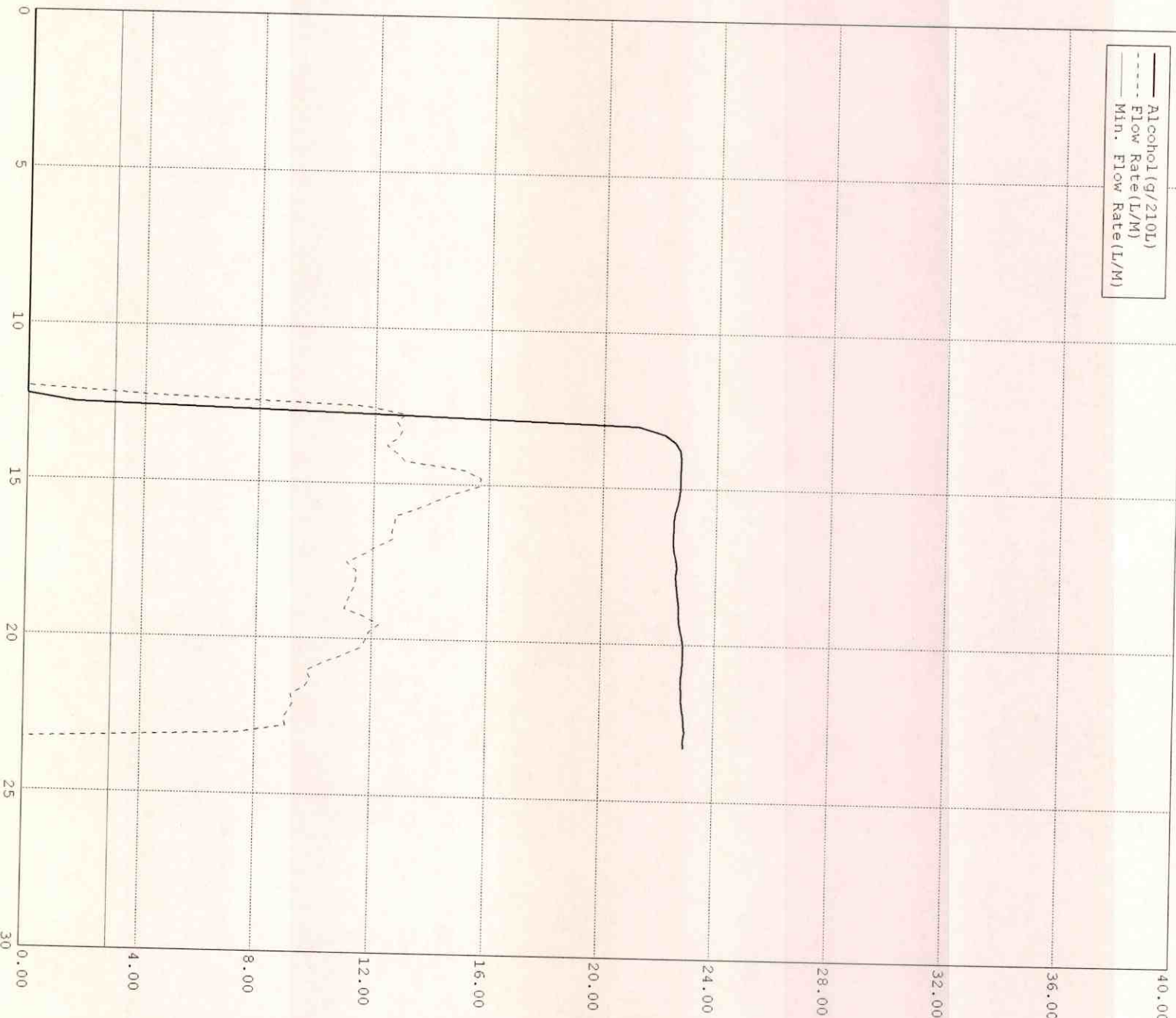
DEPT/AGENCY:
INTERFERENCE ACETONE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.35: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:04
BLANK TEST	0.000	14:04
INTERNAL STANDARD	VERIFIED	14:04
EXTERNAL STANDARD	Xq = 0.087 (1.84%)	0.079 14:04
X[1] = 0.0789 (-0.0014)	(0.0013)	0.000 14:05
BLANK TEST	XXX	14:06
SUBJECT SAMPLE	X[1] = 0.1155 (-0.0158)	(0.0016)

Interference Detected

Filter 2 Avg: -0.0015
Filter 3 Avg: 0.0013
gms 6/23/21



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/23/2021
Time: 14:09:15

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

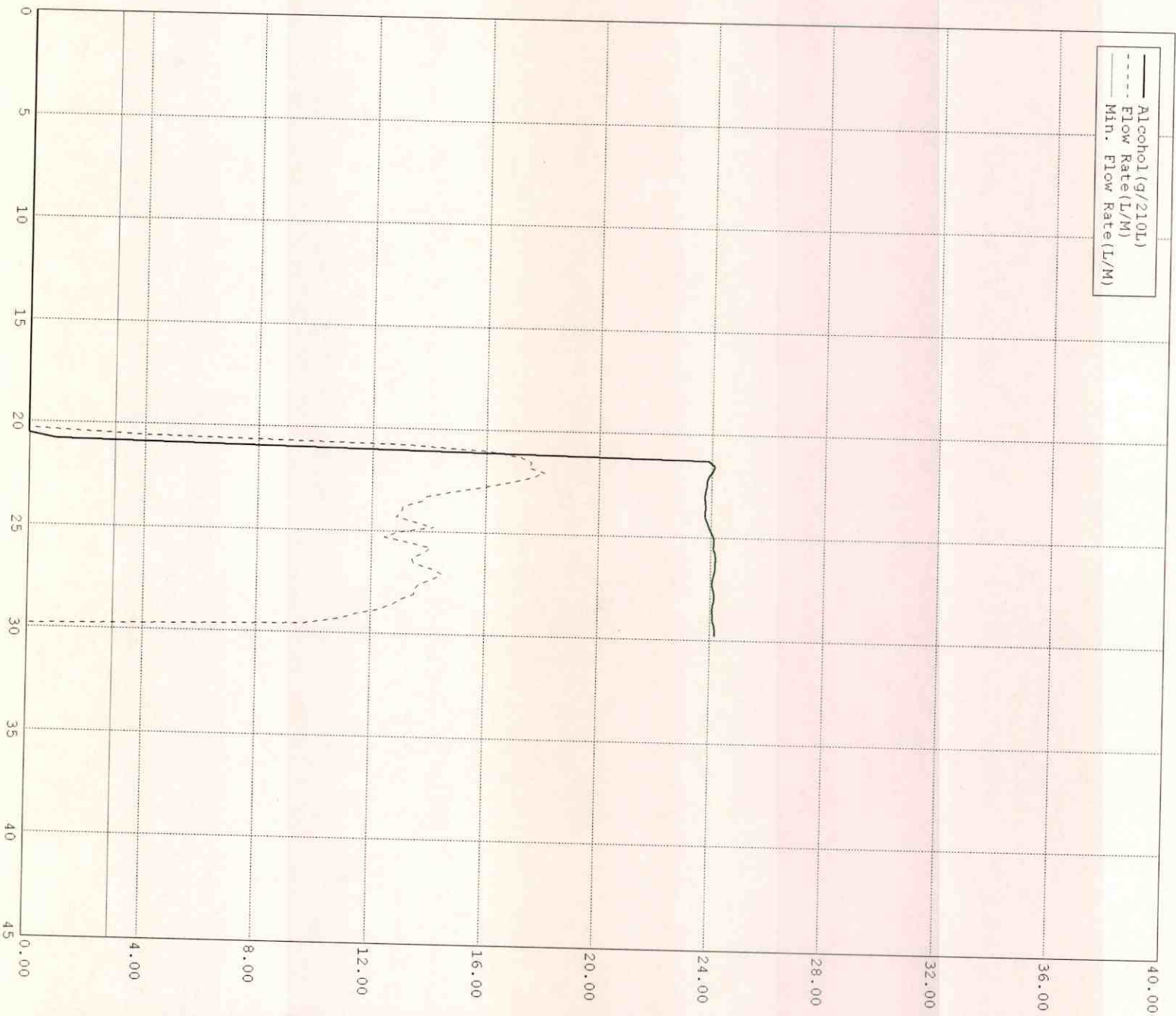
DEPT/AGENCY:
INTERFERENCE ISOPROPANOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.35: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK
BLANK TEST PASSED 14:10
INTERNAL STANDARD 0.000 14:10
INTERNAL STANDARD VERIFIED 14:10
Xq = 0.086 (1.22%)
EXTERNAL STANDARD 0.079 14:10
X[1] = 0.0788 (-0.0020) (0.0008)
BLANK TEST 0.000 14:11
SUBJECT SAMPLE XXX 14:12
X[1] = 0.1214 (-0.0281) (0.0003)

Interference Detected

BRANDI



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/23/2021
Time: 14:15:17

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

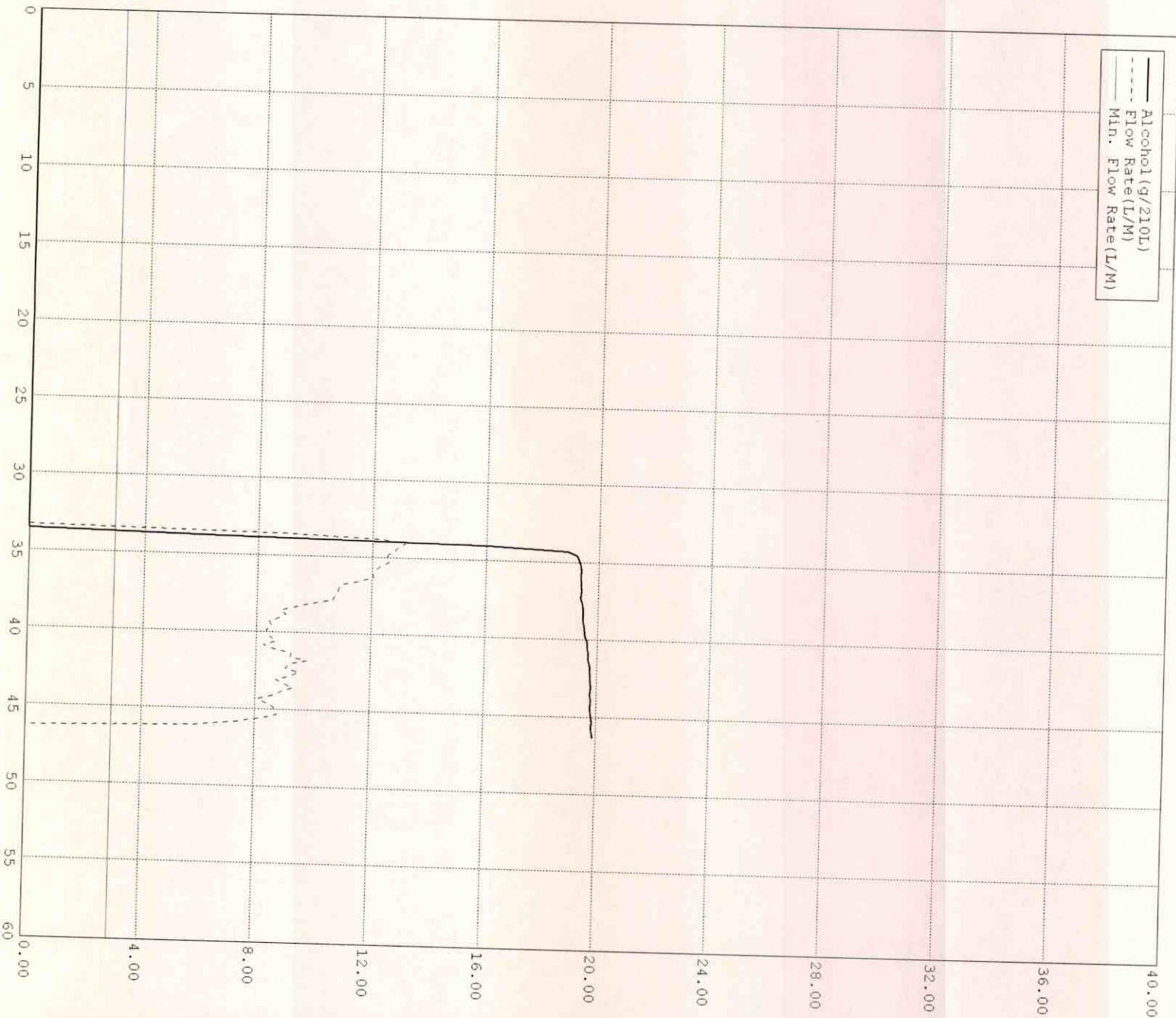
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.35: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:16
BLANK TEST	0.000	14:16
INTERNAL STANDARD	VERIFIED	14:16
Xq = 0.087 (1.53%)		
EXTERNAL STANDARD	0.079	14:16
X[1] = 0.0790 (-0.0018)	(0.0021)	
BLANK TEST	0.000	14:17
SUBJECT SAMPLE (Vol=2.09L)	0.099	14:18
X[1] = 0.0999 (0.0002)	(0.0004)	
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.079	14:19
X[1] = 0.0789 (-0.0007)	(0.0009)	
BLANK TEST	0.000	14:20

BRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/18/2021
Time: 14:01:37

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

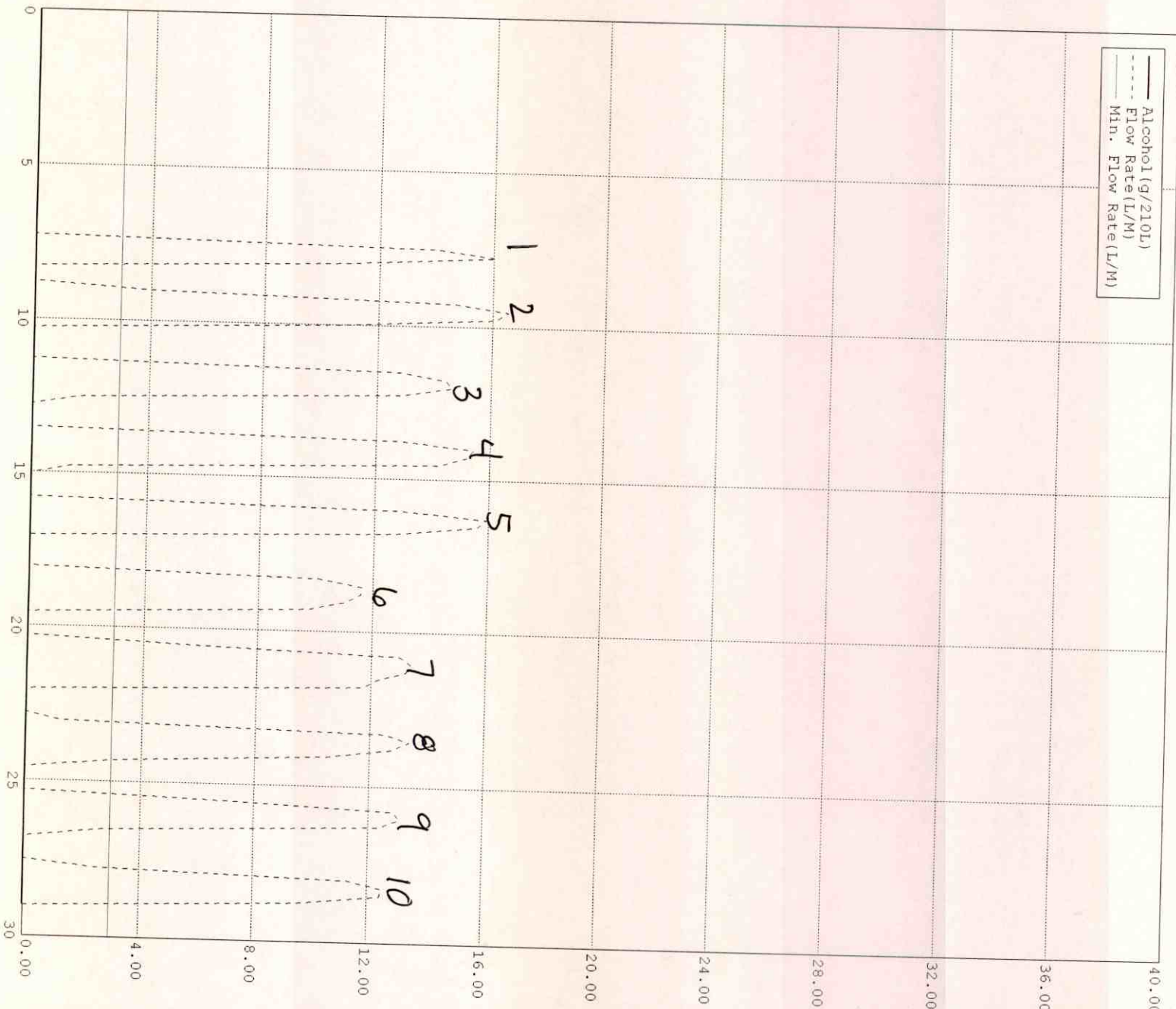
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.79: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK
BLANK TEST PASSED 14:03
INTERNAL STANDARD VERIFIED 14:03
EXTERNAL STANDARD VERIFIED 14:04
BLANK TEST 0.000 14:05
SUBJECT SAMPLE XXXX 14:05

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/18/2021
Time: 13:53:32

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

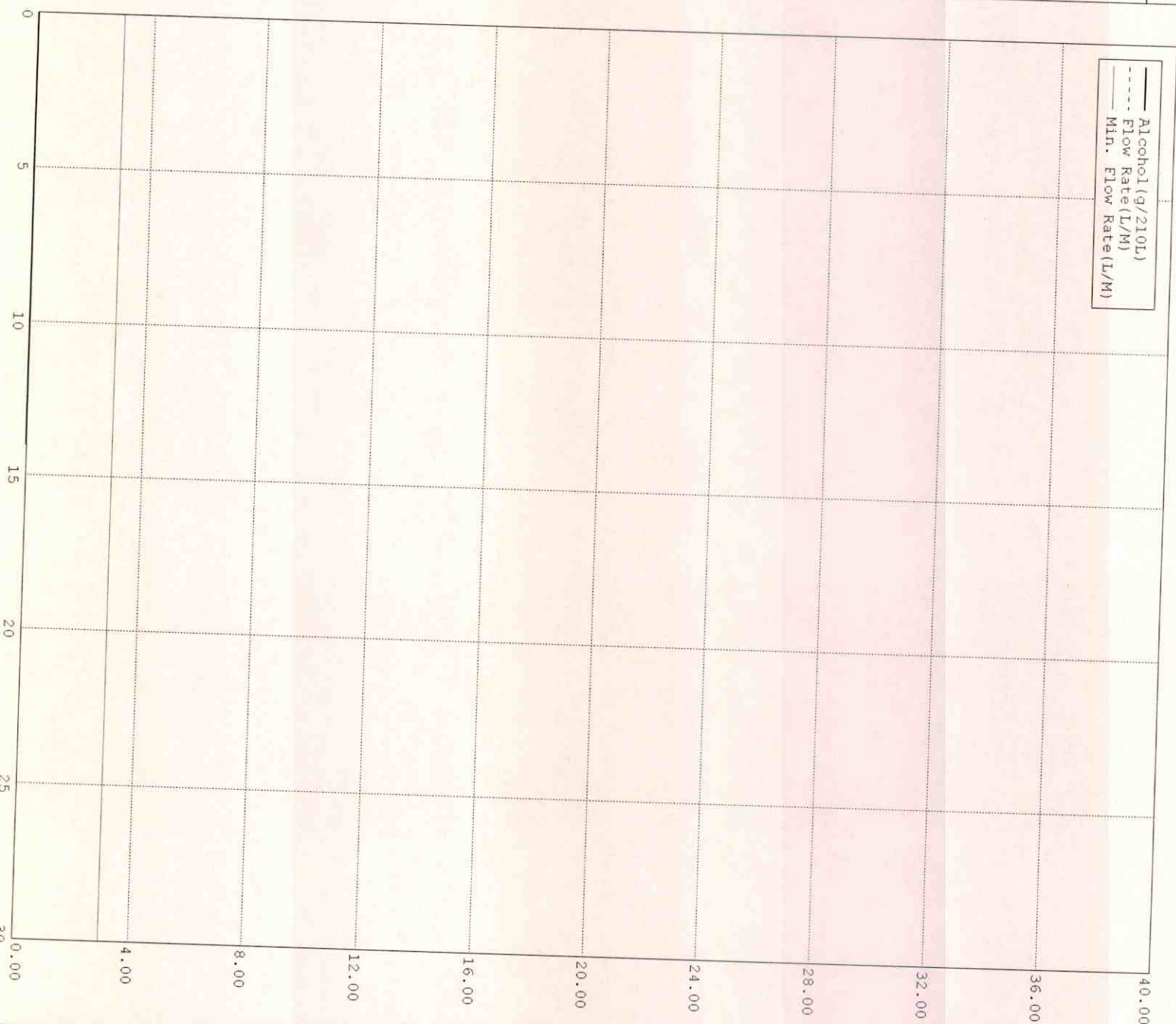
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.79: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:55
INTERNAL STANDARD 0.000 13:55
EXTERNAL STANDARD VERIFIED 13:55
BLANK TEST 0.080 13:56
0.000 13:57
RFI DETECTED

BBMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 06/23/2021
Time: 14:39:00

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.35: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:40
BLANK TEST	0.000	14:40
INTERNAL STANDARD	VERIFIED	14:40
EXTERNAL STANDARD	0.079	14:40
BLANK TEST	0.000	14:41
SUBJECT SAMPLE (Vol=1.81L)	0.000	14:42
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.079	14:43
BLANK TEST	0.000	14:44

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