

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 100342 Analyst Brandi Barnett Start Date 8/27/21

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 1.6 L (1.3L to 1.7L)

Linearity Test (attached)

Levels Used

- i. 0.020g/210L Mnf Airgas Bm Lot AG 928203 Exp 10/9/21
8/27/2021
- ii. 0.040g/210L Mnf Gutn Lot AG 111710 Exp 4/27/23
8/27/2021
- iii. 0.080g/210L Mnf Airgas Lot AG 018102 Exp 6/29/22
- iv. 0.100g/210L Mnf Airgas Lot AG 108404 Exp 3/25/23
- v. 0.200g/210L Mnf Gutn Lot 20510 Exp 12/3/22
Simulator S/N DR6267 Date Calibrated 11/17/2020
- vi. 0.300g/210L Mnf Gutn Lot 21030 Exp 2/2/23
Simulator S/N SD1202 Date Calibrated 6/15/2021

Functional Tests (attached)

Incomplete

Invalid

Interference

- i. Acetone - Mnf Gutn Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N SD1177 Date Calibrated 6/15/21
- ii. Isopropanol - Mnf Gutn Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N SD1198 Date Calibrated 6/15/21
- iii. Negative Control - Mnf Gutn Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N SD1088 Date Calibrated 6/15/21

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 9/1/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 08/27/2021
Time: 07:54:40

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 = 47.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.65 V PASSED
(0.99 V - 2.31 V)
Cooler Voltage = 1.61 V PASSED
(0.97 V - 2.25 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 536 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.074 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
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.082 0.32% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100342

Date: 08/27/2021
Time: 8:05 AM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 47.5°C

Current Barometer 29.4 in
Volume (Ltr) 1.49

Settings

Lamp: 1.65 V
Bias: 80 V
Cooler: 1.61 V
Chopper: 535 Hz

Voltages (V)

Flow: 1.02 V
Detector: -0.008 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 01/06/2021
Time: 09:25:33

OPERATOR NAME:
INTOX I METERS
CERTIFICATE #: TEST

Ca	=	0.2000		
CAL	=	0.981695	0.800	<= CAL < 1.200
b1	=	0.0006	0.0000	<= b1 < 0.0040
b2	=	0.0066	0.0010	<= b2 < 0.0100
b3	=	0.0007	0.0000	<= b3 < 0.0040
Xq	=	0.0823	0.0500	<= Xq < 0.2000
a21	=	1.174111	1.050	<= a21 < 1.300
a31	=	0.474277	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 08/27/2021
Time: 08:06:30

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

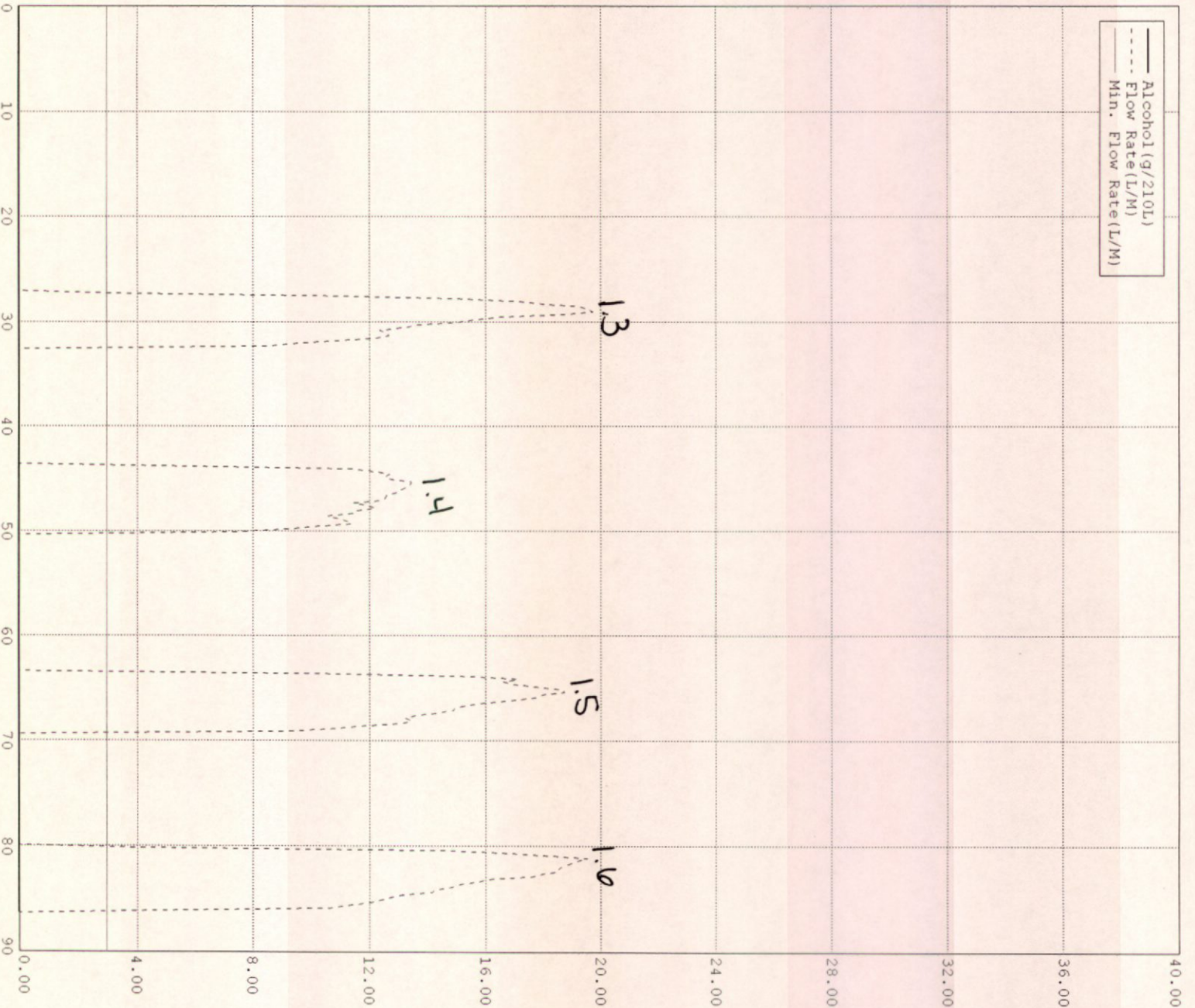
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.37: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	08:07
BLANK TEST	0.000	08:07
INTERNAL STANDARD	VERIFIED	08:07
EXTERNAL STANDARD	0.077	08:08
BLANK TEST	0.000	08:08
SUBJECT SAMPLE (Vol=1.54L)	0.000	08:10
BLANK TEST	0.000	08:11
EXTERNAL STANDARD	0.077	08:11
BLANK TEST	0.000	08:12

PMB



LINEARITY CHECK

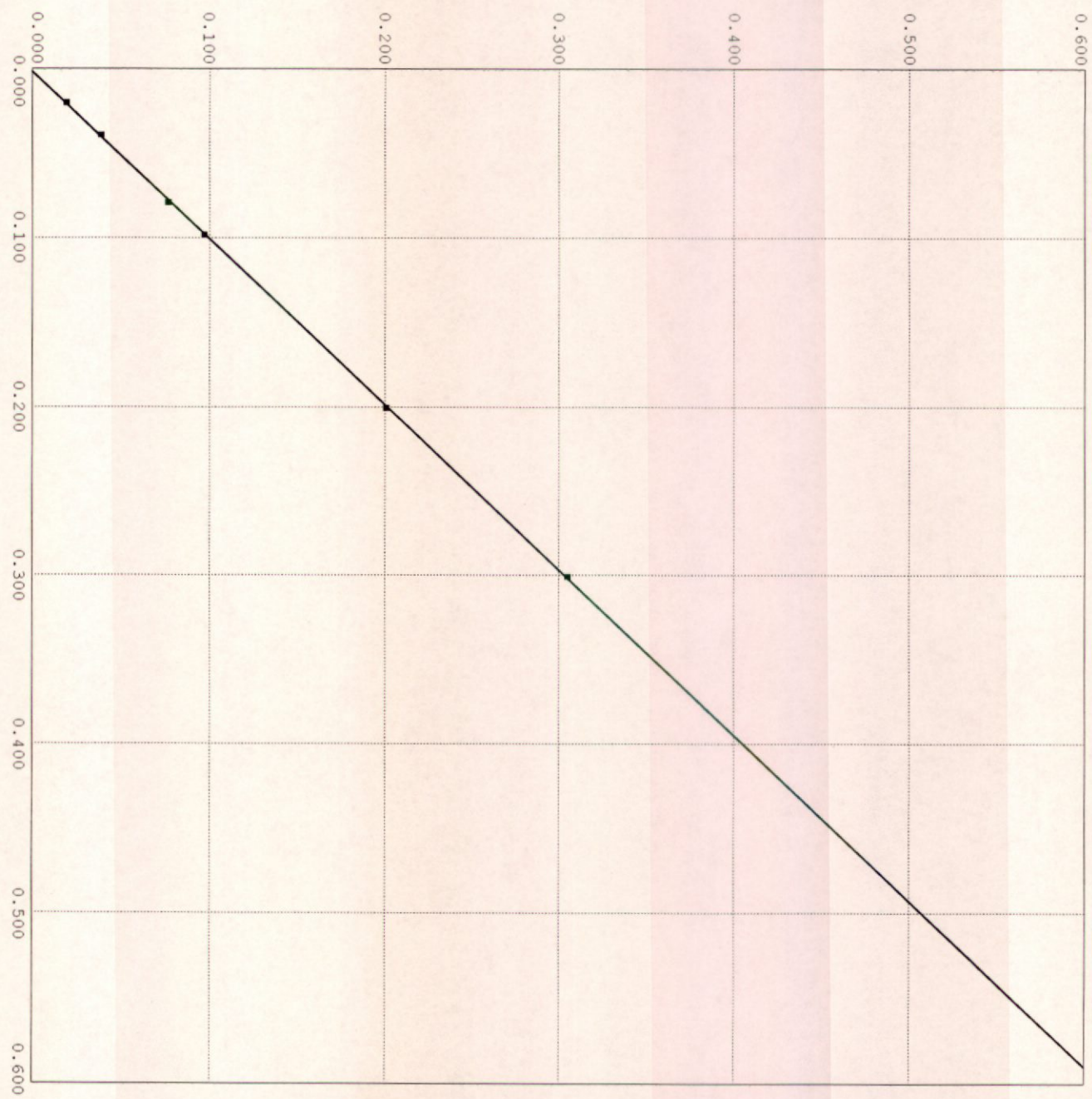
Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 08/27/2021
Time: 08:52:54

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.039	0.0394	0.0005
0.079	0.0776	0.0005
0.098	0.0980	0.0000
0.200	0.2016	0.0005
0.300	0.3056	0.0009

SLOPE = 1.020267
R² = 0.999892



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

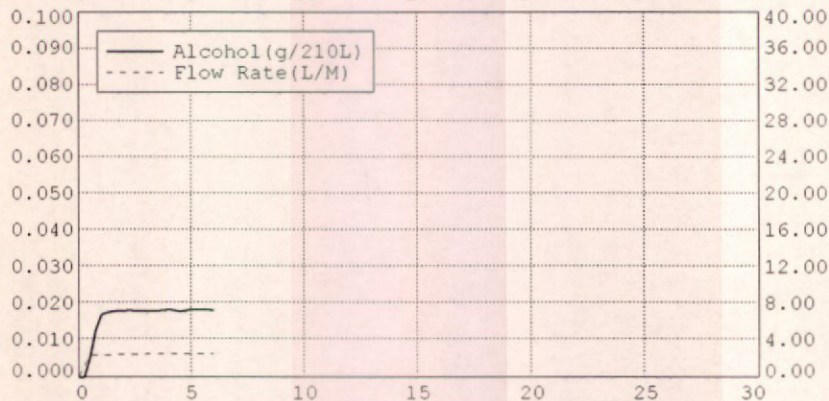
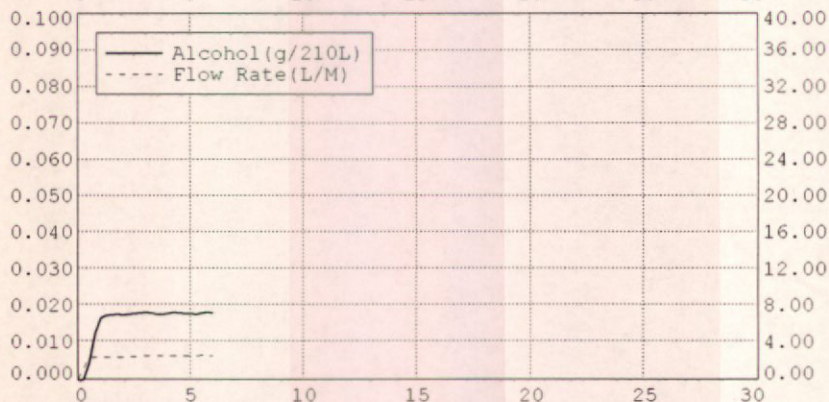
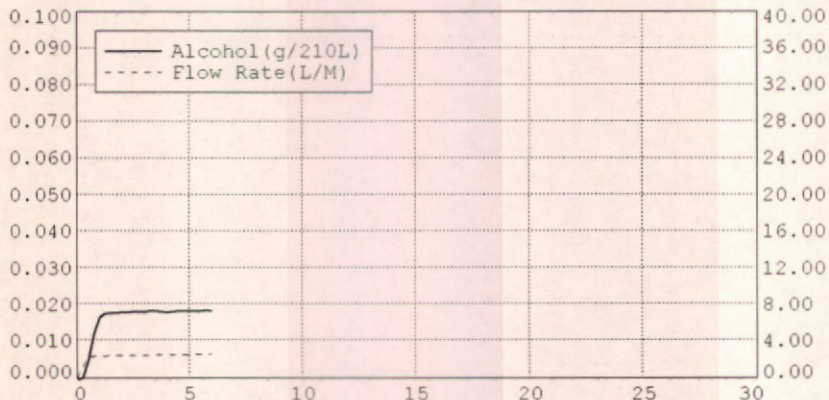
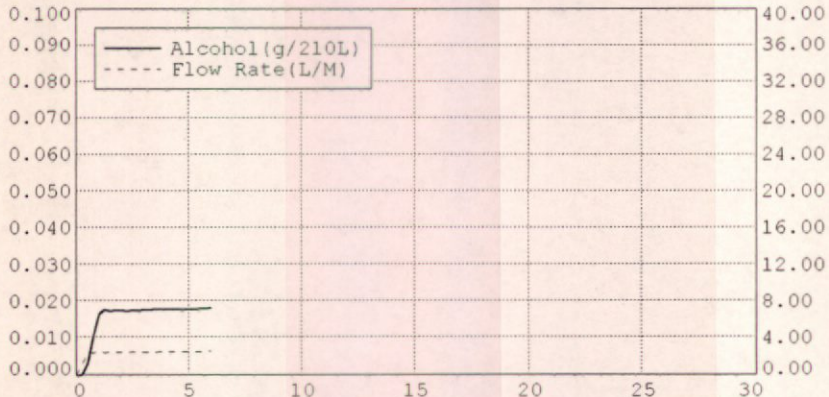
Date: 08/27/2021
 Time: 08:52:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.37: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 340 psi

BLANK TEST	0.000	08:54
INTERNAL STANDARD	VERIFIED	08:54
EXTERNAL STANDARD	0.020	08:54
BLANK TEST	0.000	08:55
EXTERNAL STANDARD	0.020	08:55
BLANK TEST	0.000	08:56
EXTERNAL STANDARD	0.019	08:56
BLANK TEST	0.000	08:57
EXTERNAL STANDARD	0.020	08:57
BLANK TEST	0.000	08:58
EXTERNAL STANDARD	0.020	08:58
BLANK TEST	0.000	08:59

Average = 0.0198
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

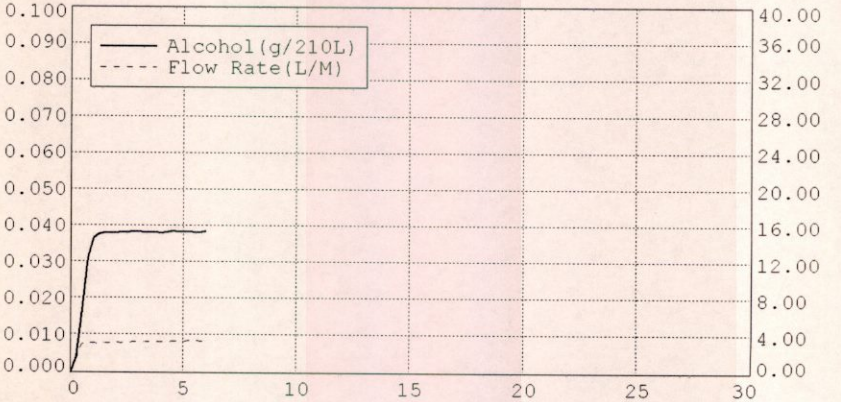
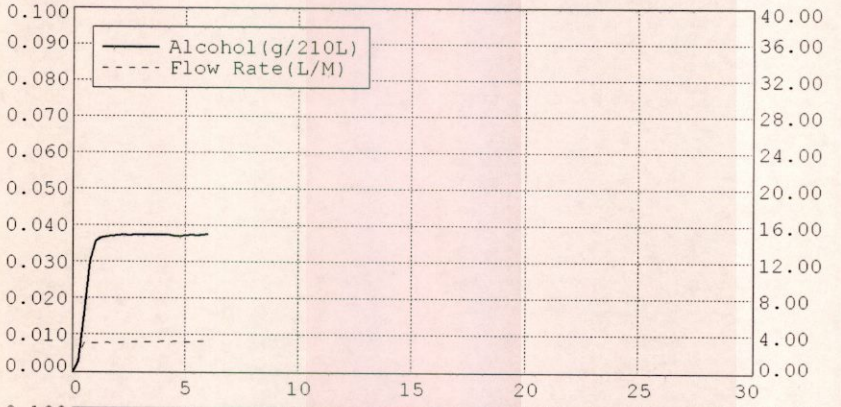
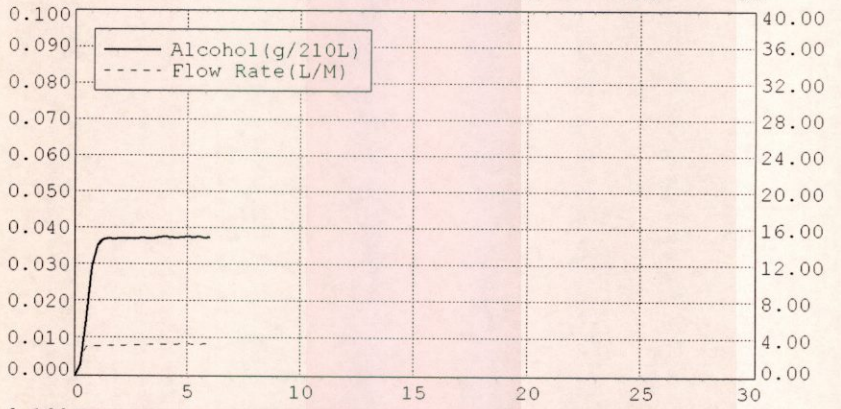
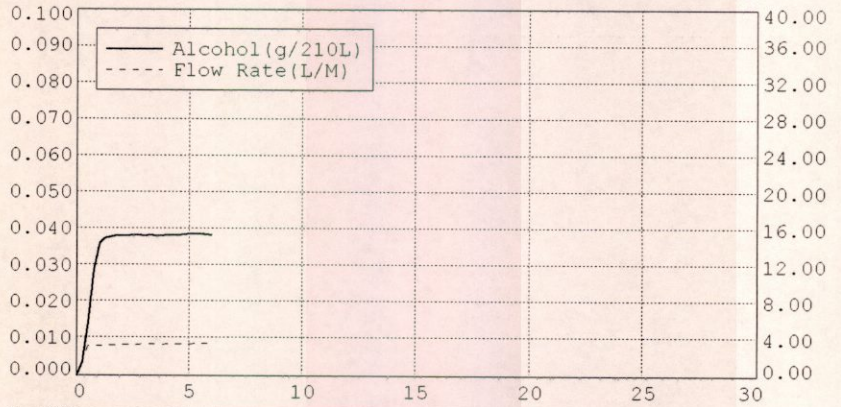
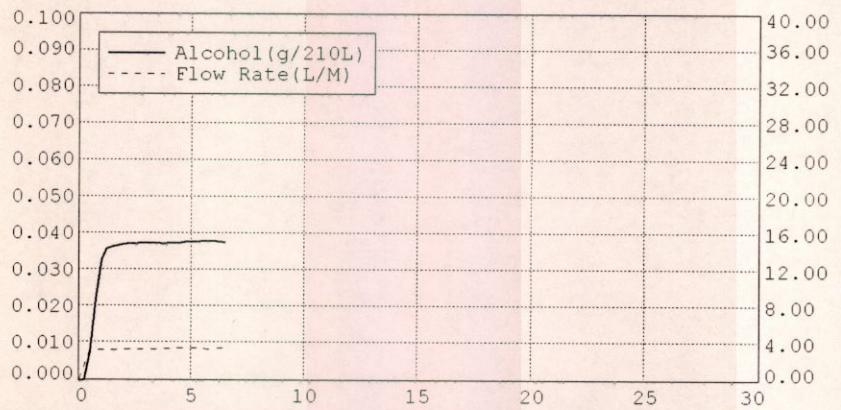
Date: 08/27/2021
 Time: 09:10:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.37: 0.039
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 925 psi

BLANK TEST	0.000	09:11
INTERNAL STANDARD	VERIFIED	09:12
EXTERNAL STANDARD	0.039	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.040	09:13
BLANK TEST	0.000	09:14
EXTERNAL STANDARD	0.039	09:14
BLANK TEST	0.000	09:15
EXTERNAL STANDARD	0.039	09:15
BLANK TEST	0.000	09:16
EXTERNAL STANDARD	0.040	09:16
BLANK TEST	0.000	09:17

Average = 0.0394
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

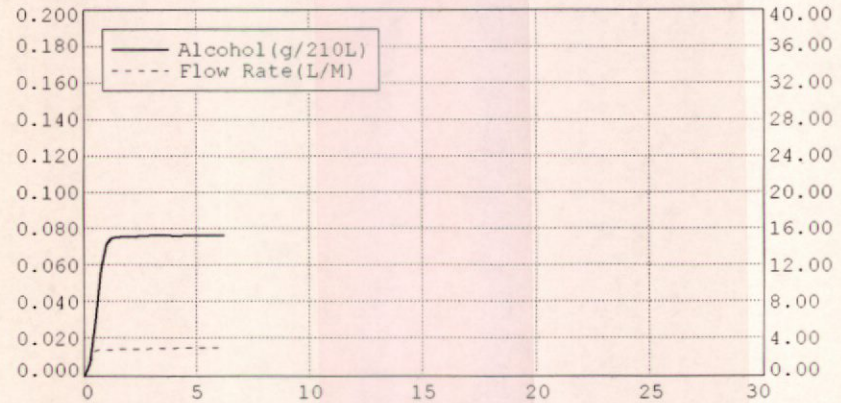
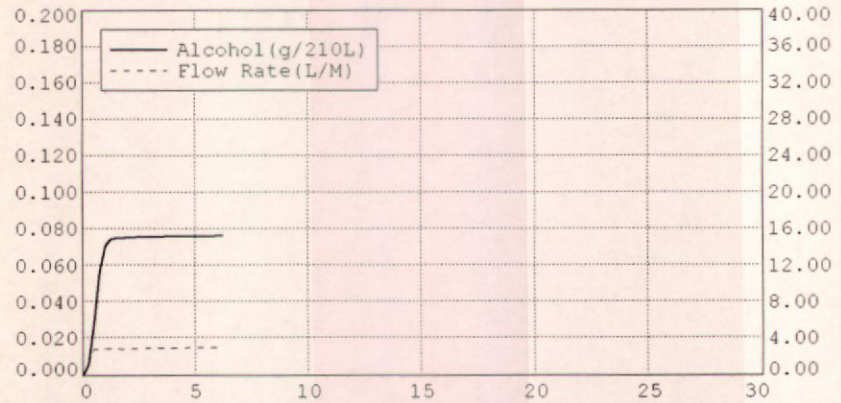
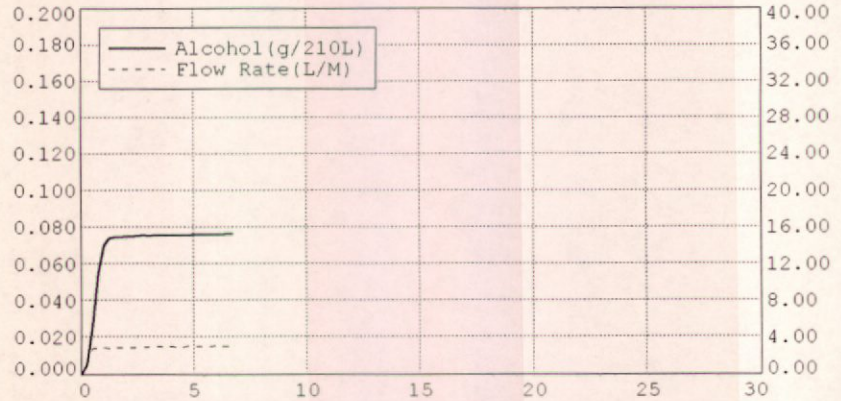
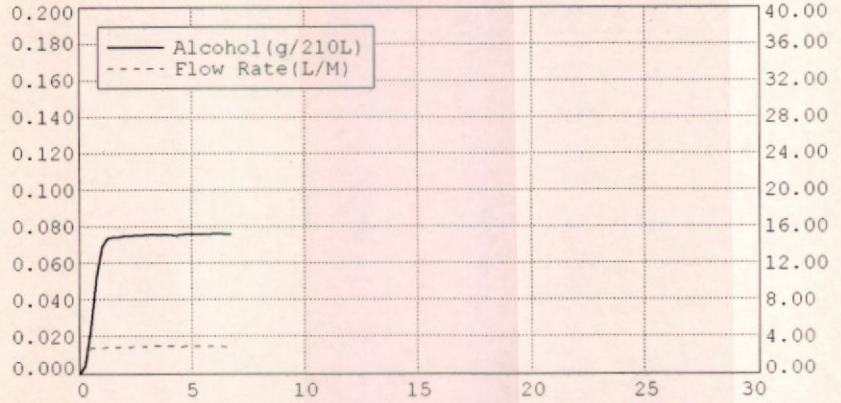
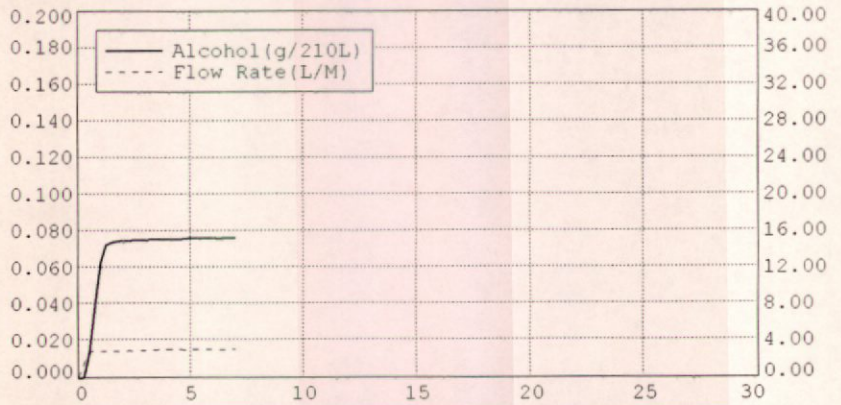
Date: 08/27/2021
 Time: 09:18:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.37: 0.079
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 631 psi

BLANK TEST	0.000	09:19
INTERNAL STANDARD	VERIFIED	09:19
EXTERNAL STANDARD	0.077	09:19
BLANK TEST	0.000	09:20
EXTERNAL STANDARD	0.078	09:20
BLANK TEST	0.000	09:21
EXTERNAL STANDARD	0.077	09:22
BLANK TEST	0.000	09:22
EXTERNAL STANDARD	0.078	09:23
BLANK TEST	0.000	09:24
EXTERNAL STANDARD	0.078	09:24
BLANK TEST	0.000	09:25

Average = 0.0776
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

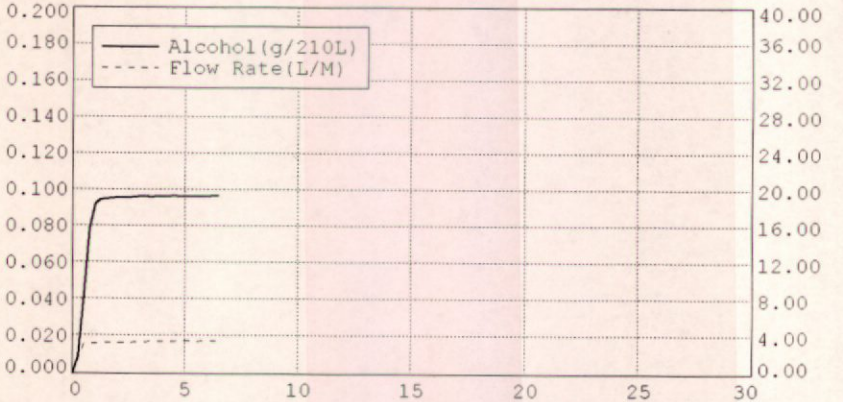
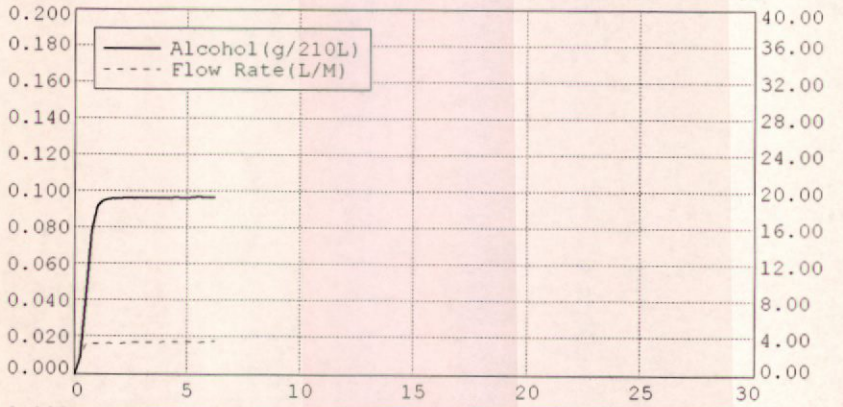
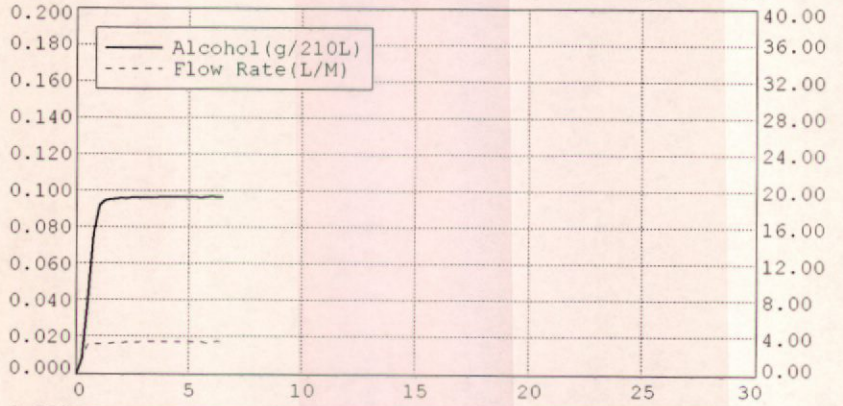
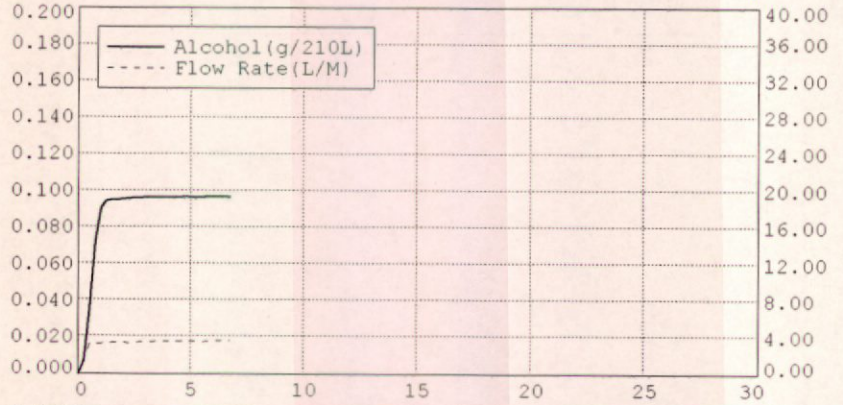
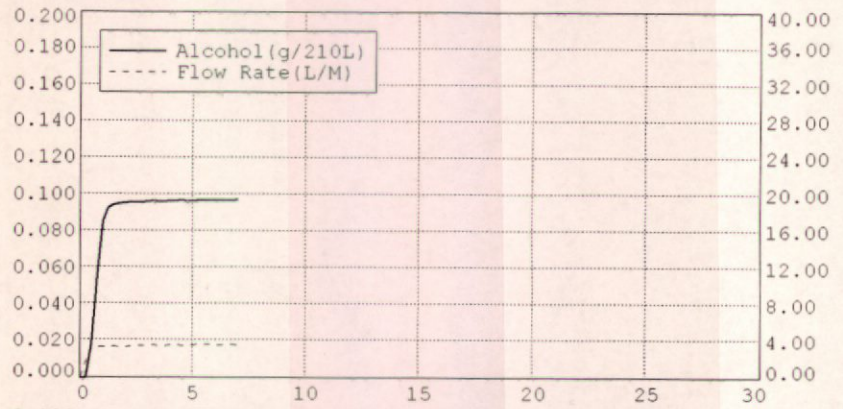
Date: 08/27/2021
 Time: 10:15:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.37: 0.098
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 955 psi

BLANK TEST	0.000	10:16
INTERNAL STANDARD	VERIFIED	10:17
EXTERNAL STANDARD	0.098	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.098	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.098	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.098	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.098	10:21
BLANK TEST	0.000	10:22

Average = 0.0980
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

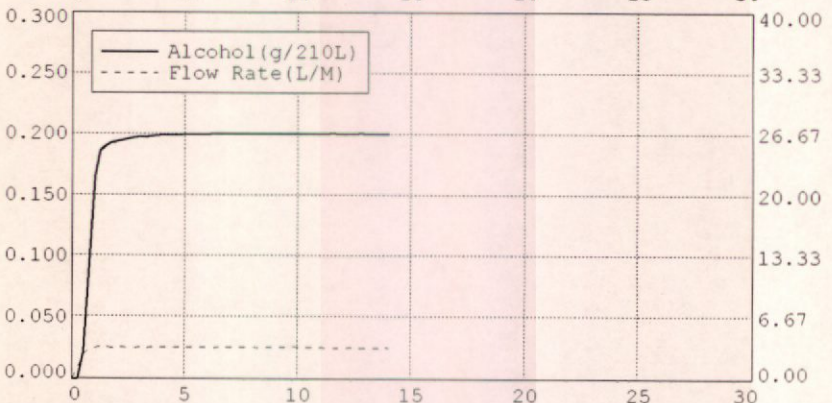
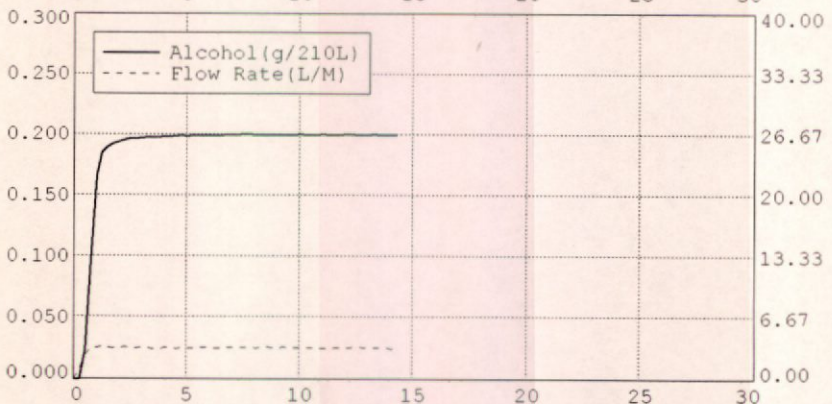
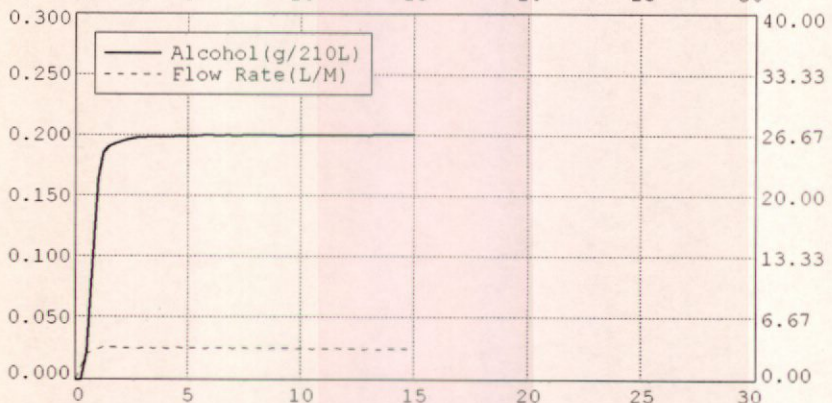
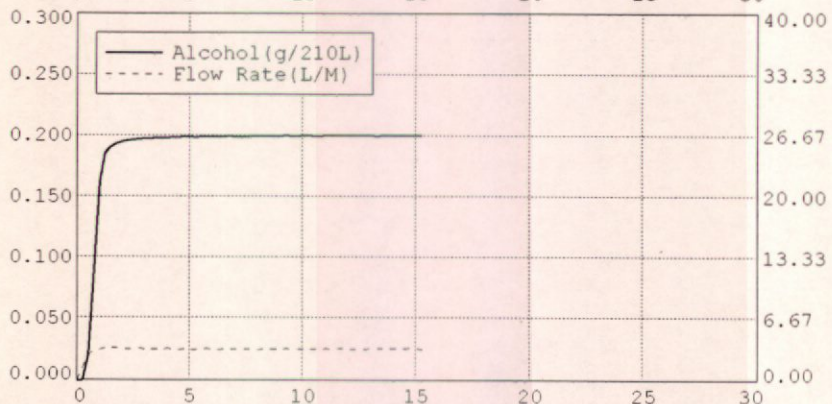
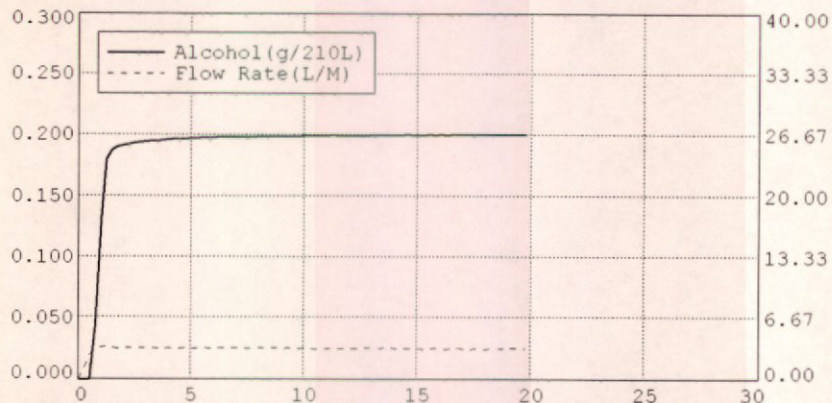
Date: 08/27/2021
 Time: 10:32:37

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	10:33
INTERNAL STANDARD	VERIFIED	10:33
EXTERNAL STANDARD	0.202	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.201	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.202	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.201	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.202	10:39
BLANK TEST	0.000	10:40

Average = 0.2016
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

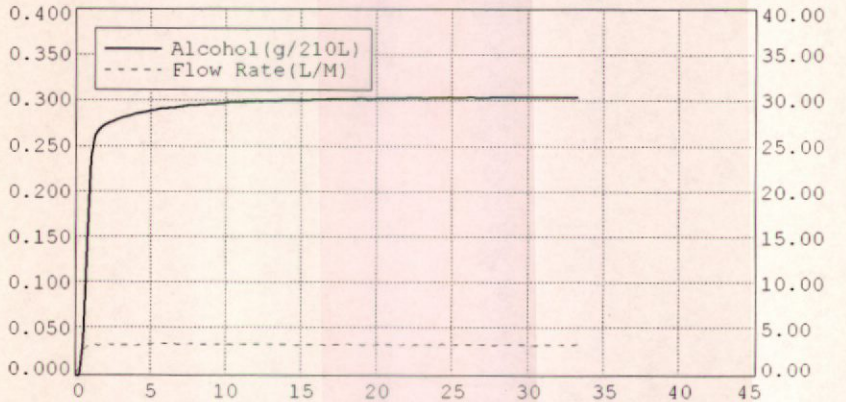
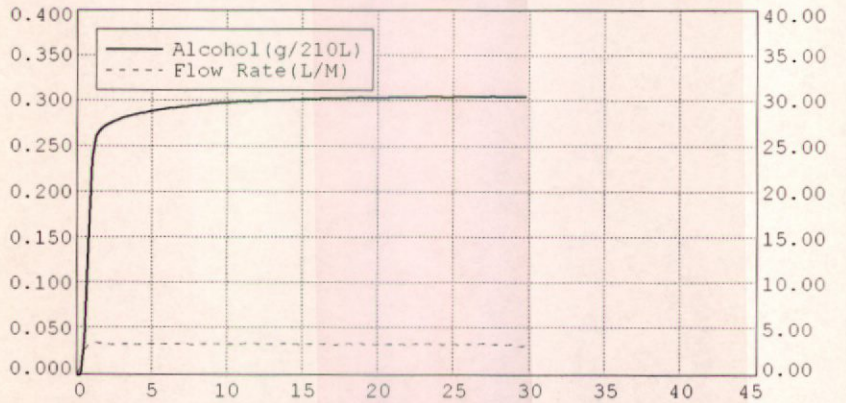
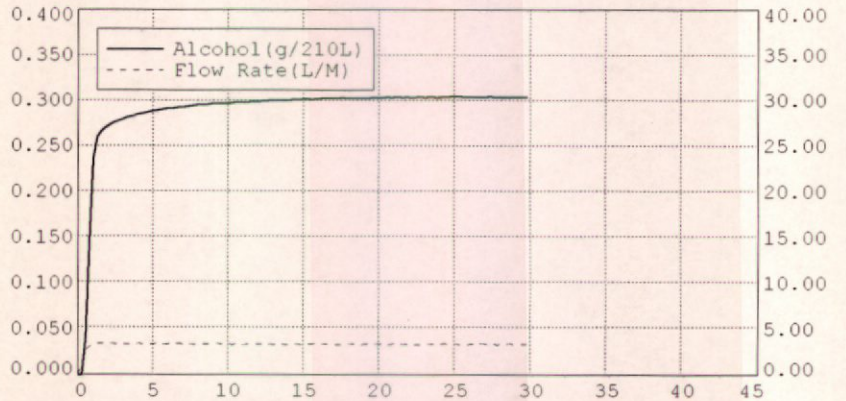
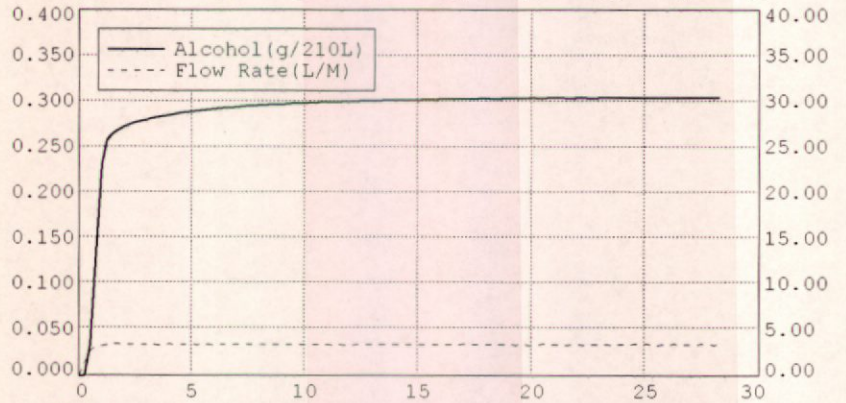
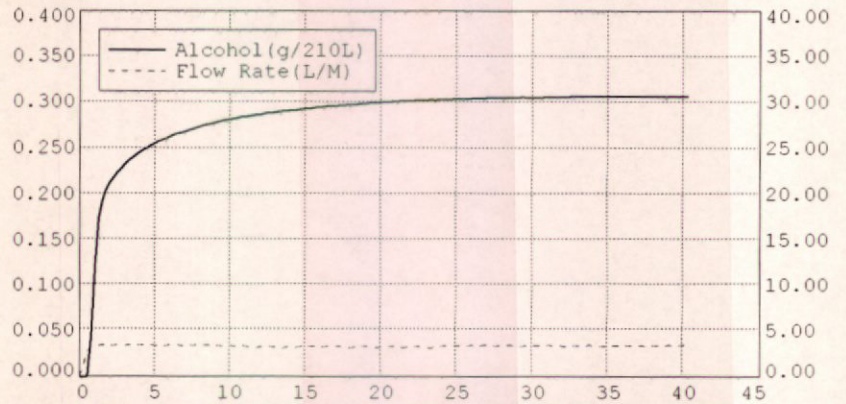
Date: 08/27/2021
 Time: 10:45:35

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	10:46
INTERNAL STANDARD	VERIFIED	10:46
EXTERNAL STANDARD	0.307	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.305	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.305	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.306	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.305	10:53
BLANK TEST	0.000	10:54

Average = 0.3056
 Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 08/27/2021
Time: 11:59:58

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

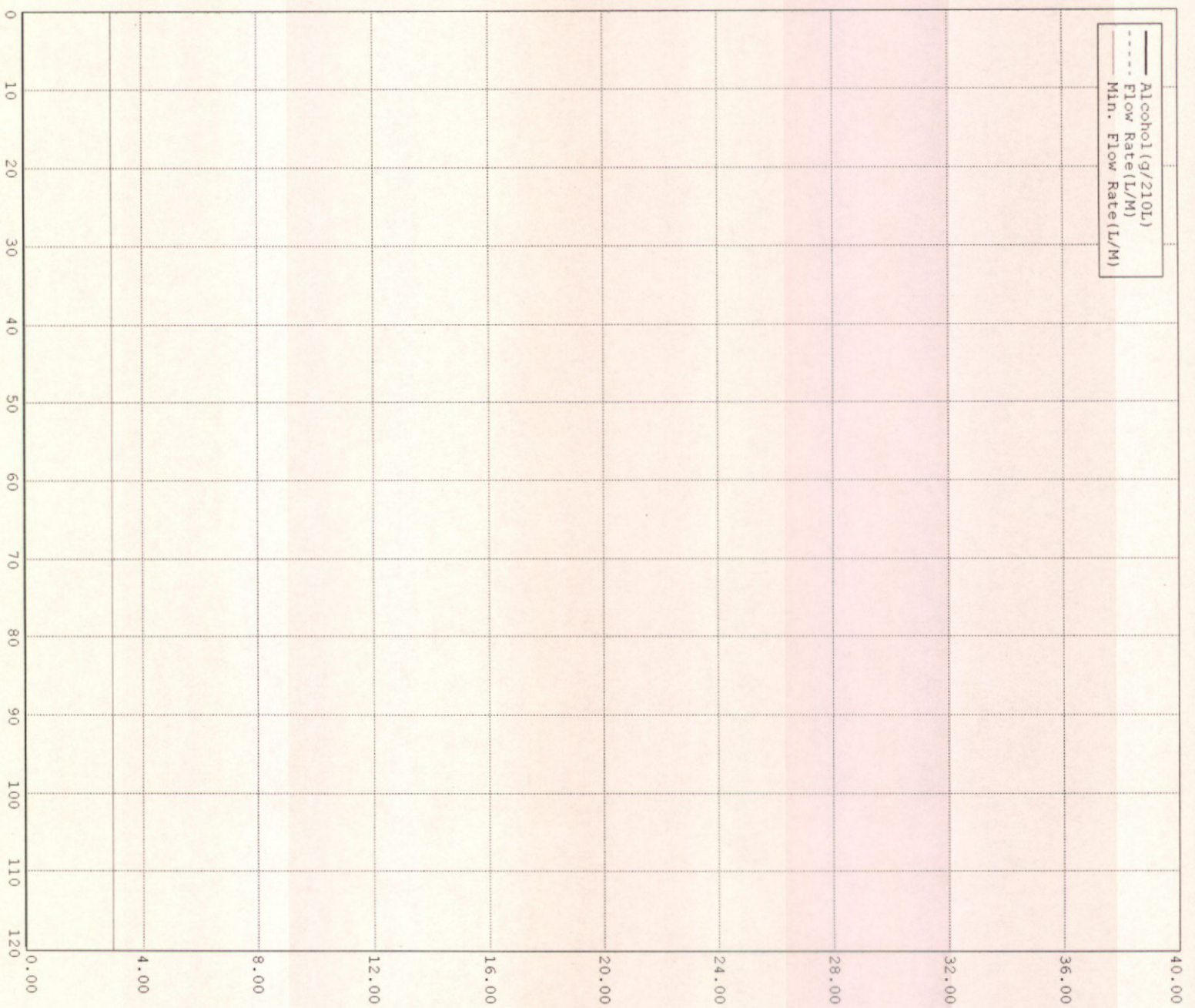
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.39: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:01
BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:01
EXTERNAL STANDARD	0.077	12:01
BLANK TEST	0.000	12:02
SUBJECT SAMPLE	INCOMPLETE	12:04

BRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 08/27/2021
Time: 12:06:09

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

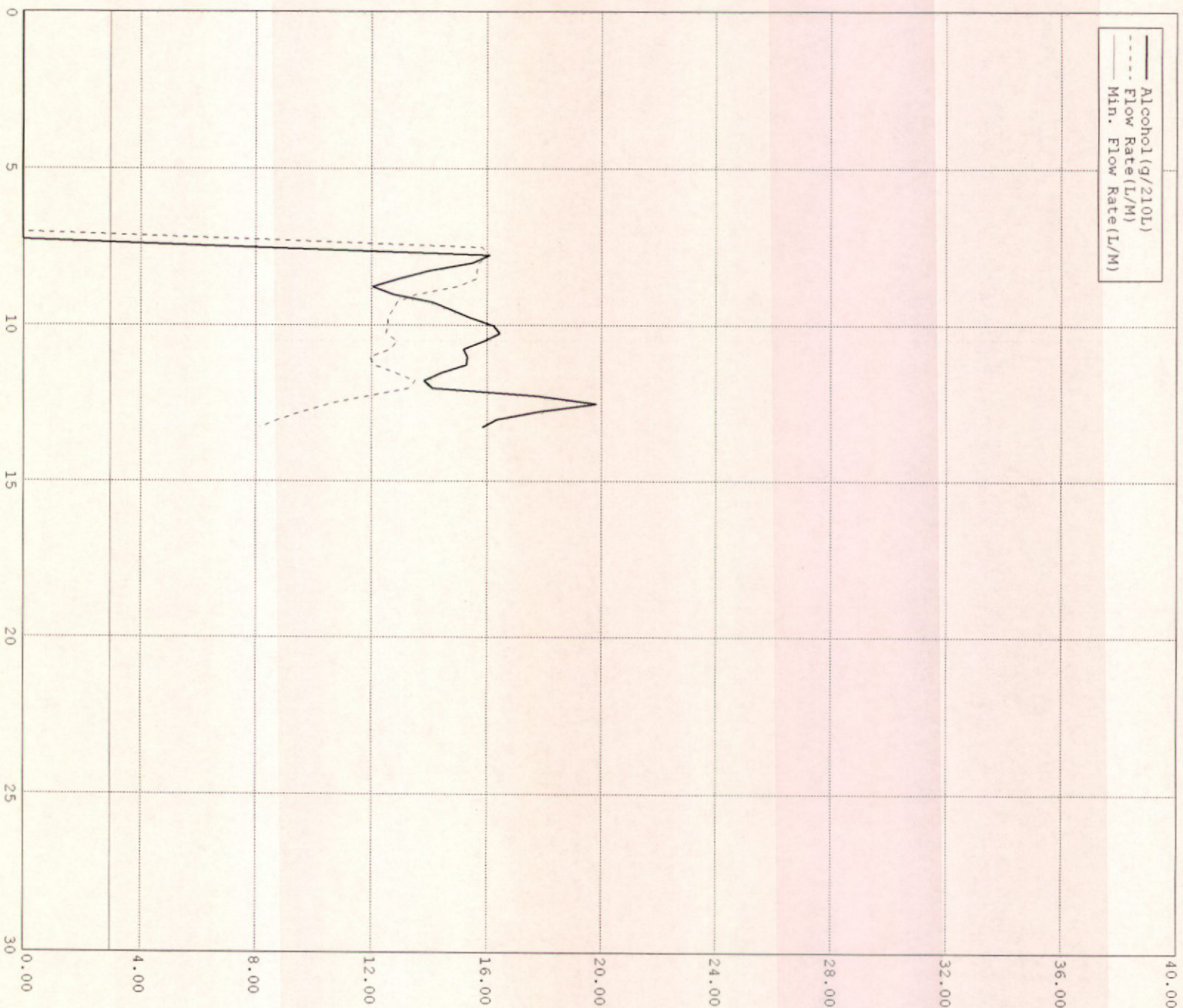
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.39: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:07
BLANK TEST	0.000	12:07
INTERNAL STANDARD	0.077	12:07
EXTERNAL STANDARD	0.000	12:08
BLANK TEST	INVALID	12:10

BOMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 09/01/2021
Time: 09:14:14

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

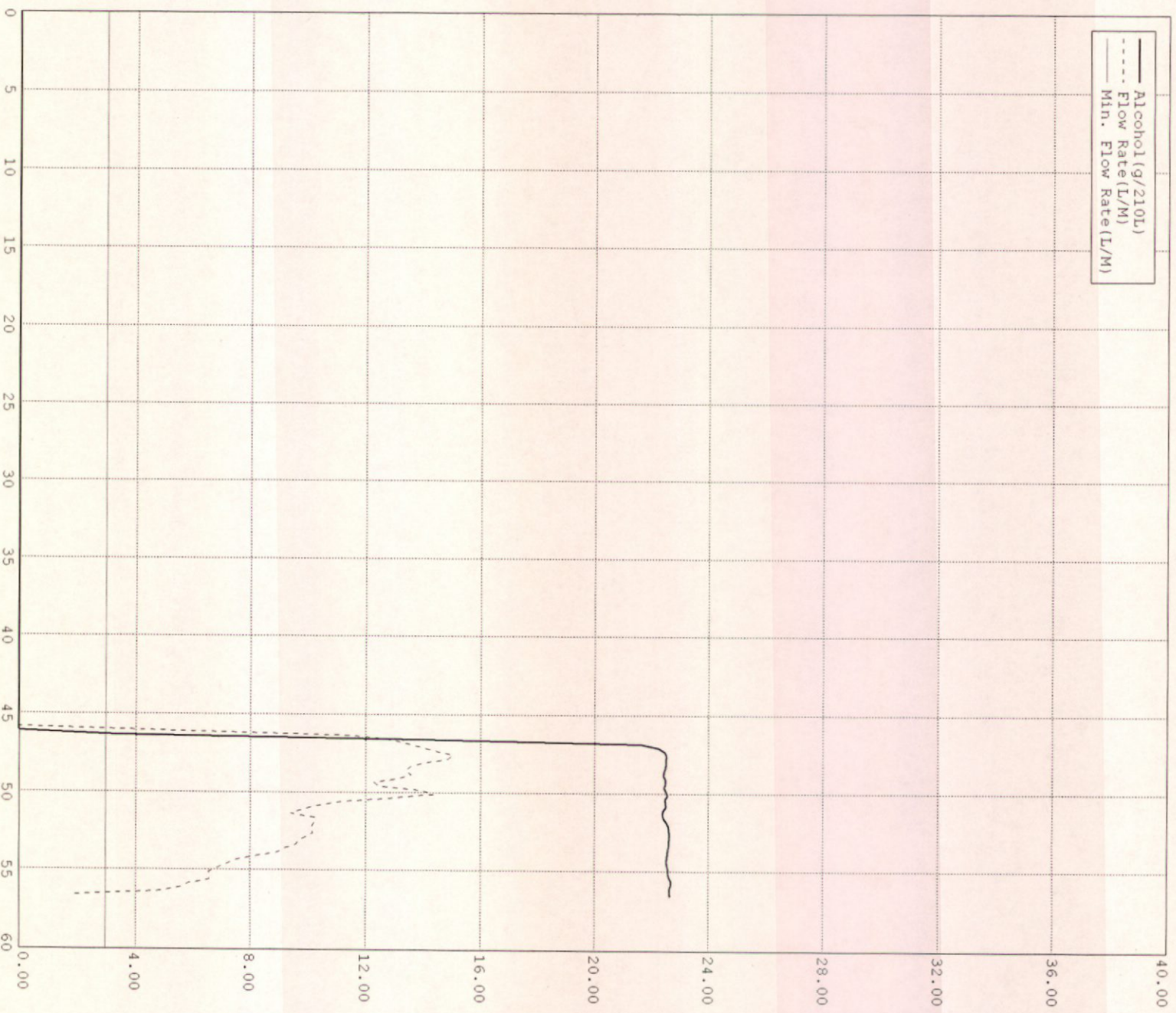
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:15
BLANK TEST	0.000	09:15
INTERNAL STANDARD	VERIFIED	09:15
Xq = 0.082 (0.63%)		
EXTERNAL STANDARD	0.077	09:15
X[1] = 0.0773 (-0.0013)	(0.0013)	
BLANK TEST	0.000	09:16
SUBJECT SAMPLE	XXX	09:17
X[1] = 0.1142 (-0.0139)	(0.0011)	

Interference Detected

Filter 2 Avg: -0.0019
Filter 3 Avg: 0.0007
BMB 9/1/21

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 09/01/2021
Time: 09:23:04

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

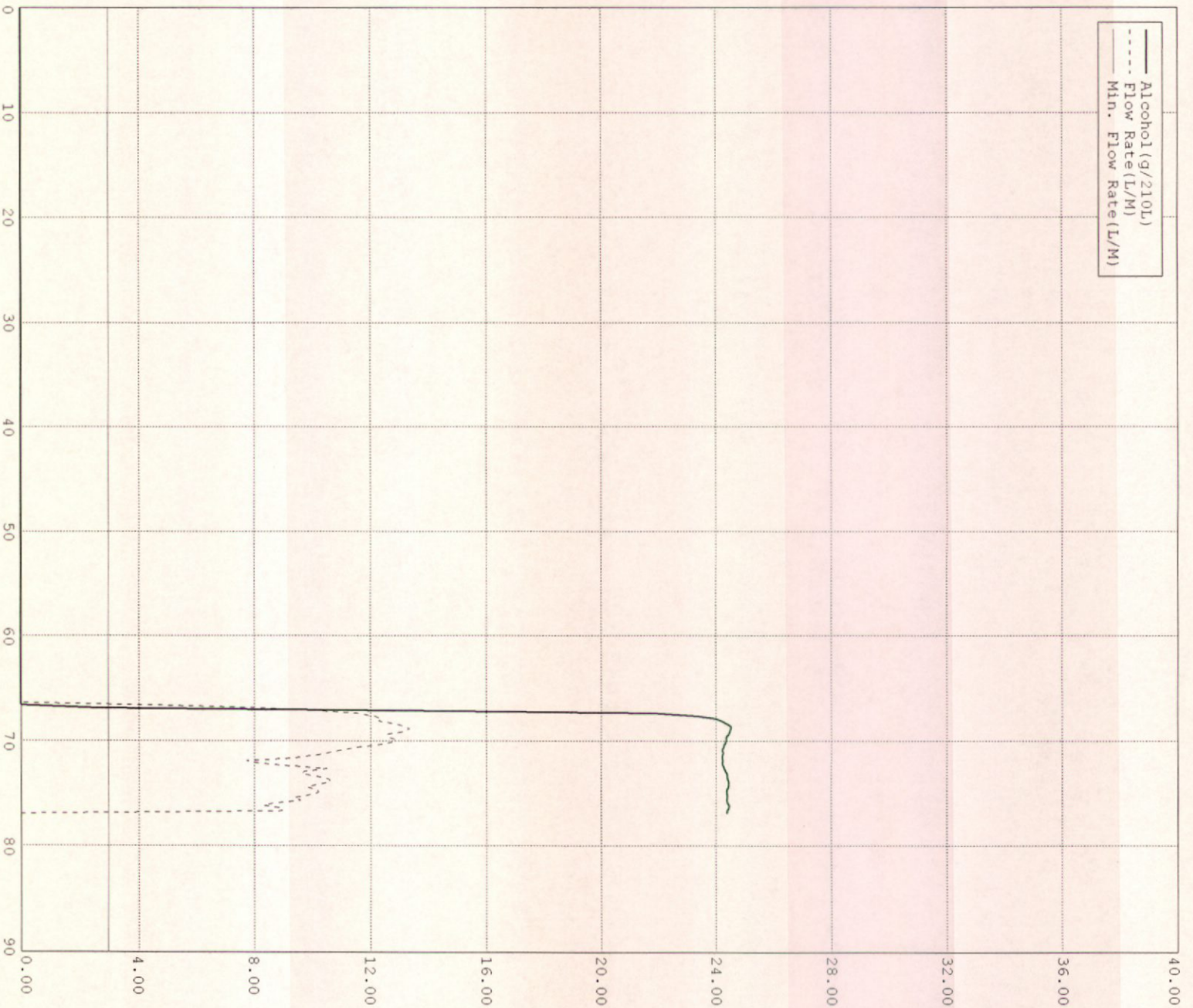
DEPT/AGENCY:
INTERERENCE ISOPROPYL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK
BLANK TEST PASSED 09:24
INTERNAL STANDARD VERIFIED 09:24
Xq = 0.083 (0.32%)
EXTERNAL STANDARD 0.078 09:24
X[1] = 0.0778 (-0.0016) (0.0004)
BLANK TEST 0.000 09:25
SUBJECT SAMPLE XXX 09:27
X[1] = 0.1230 (-0.0325) (-0.0012)

Interference Detected

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 09/01/2021
Time: 09:30:57

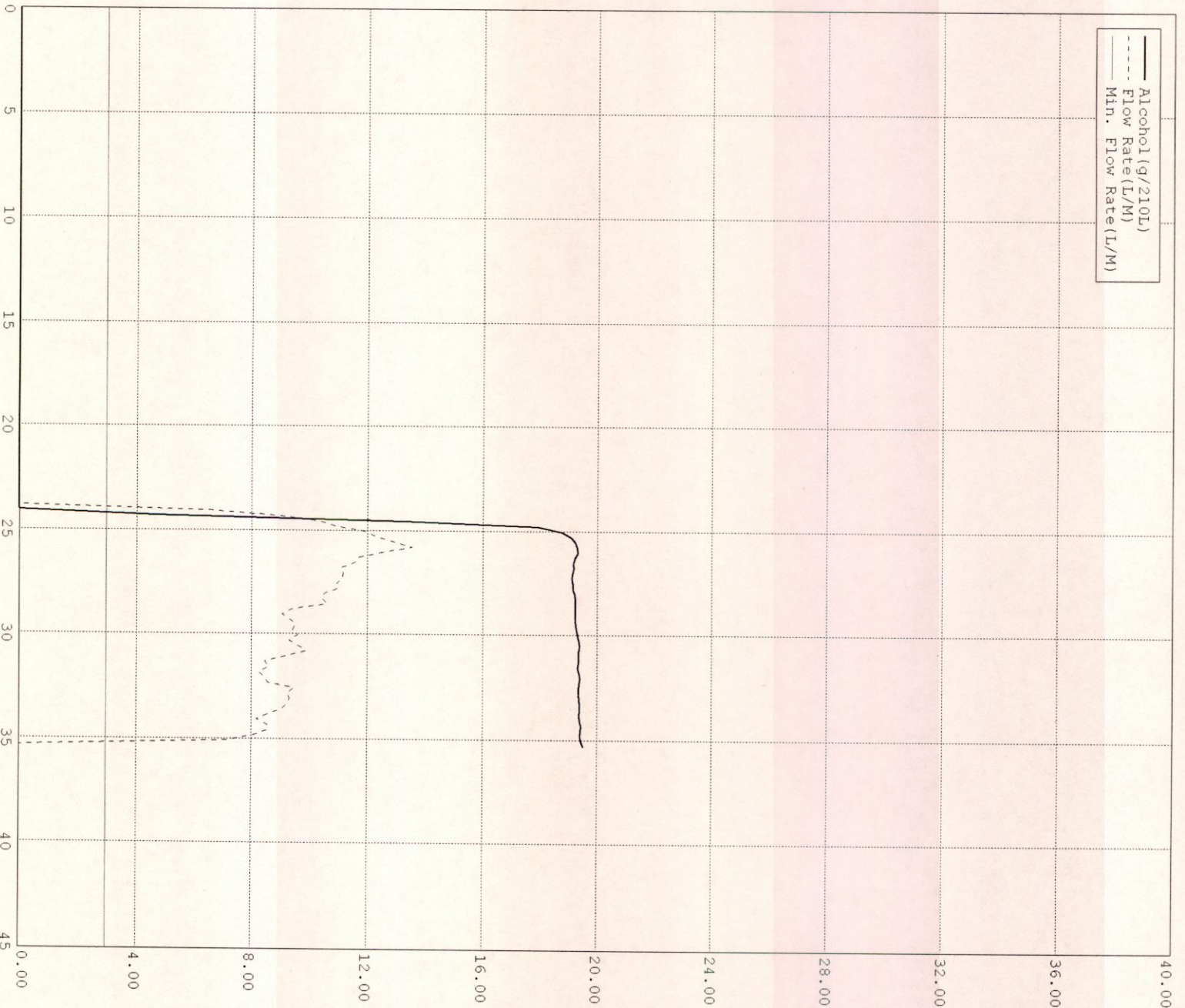
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.60: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:32
INTERNAL STANDARD	0.000	09:32
INTERNAL STANDARD	VERIFIED	09:33
Xq = 0.082 (0.11%)		
EXTERNAL STANDARD	0.077	09:33
X[1] = 0.0772 (-0.0025)	(0.0005)	
BLANK TEST	0.000	09:34
SUBJECT SAMPLE (Vol=1.85L)	0.098	09:34
X[1] = 0.0985 (0.0008)	(-0.0007)	
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.077	09:36
X[1] = 0.0770 (-0.0020)	(0.0006)	
BLANK TEST	0.000	09:36



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 08/27/2021
Time: 12:23:09

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

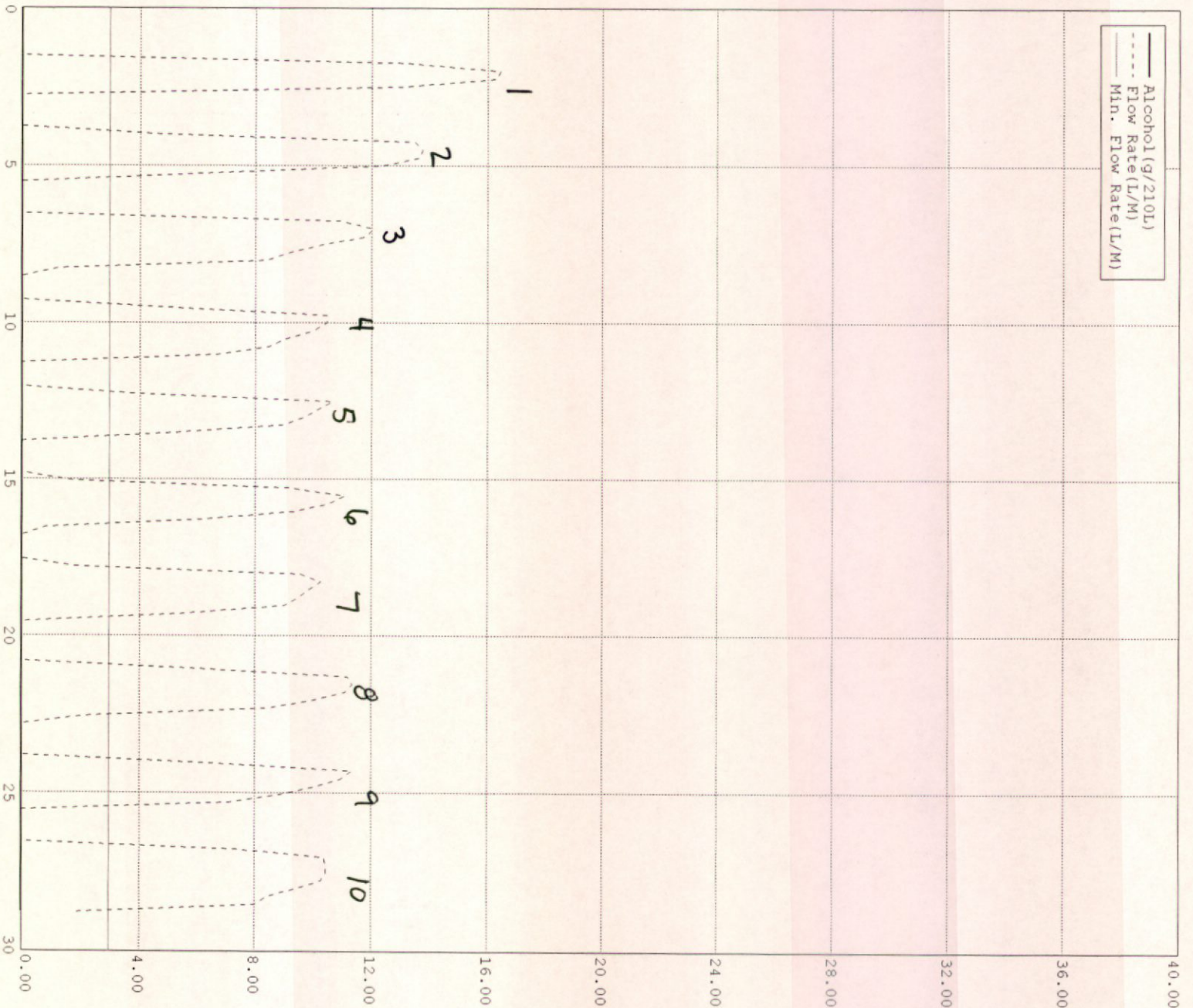
DEPT/AGENCY:
EXCEEDED ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.39: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:24
BLANK TEST	0.000	12:24
INTERNAL STANDARD	VERIFIED	12:24
EXTERNAL STANDARD	0.077	12:24
BLANK TEST	0.000	12:25
SUBJECT SAMPLE	XXX	12:26

Maximum Attempts Exceeded

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 08/27/2021
Time: 12:15:39

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

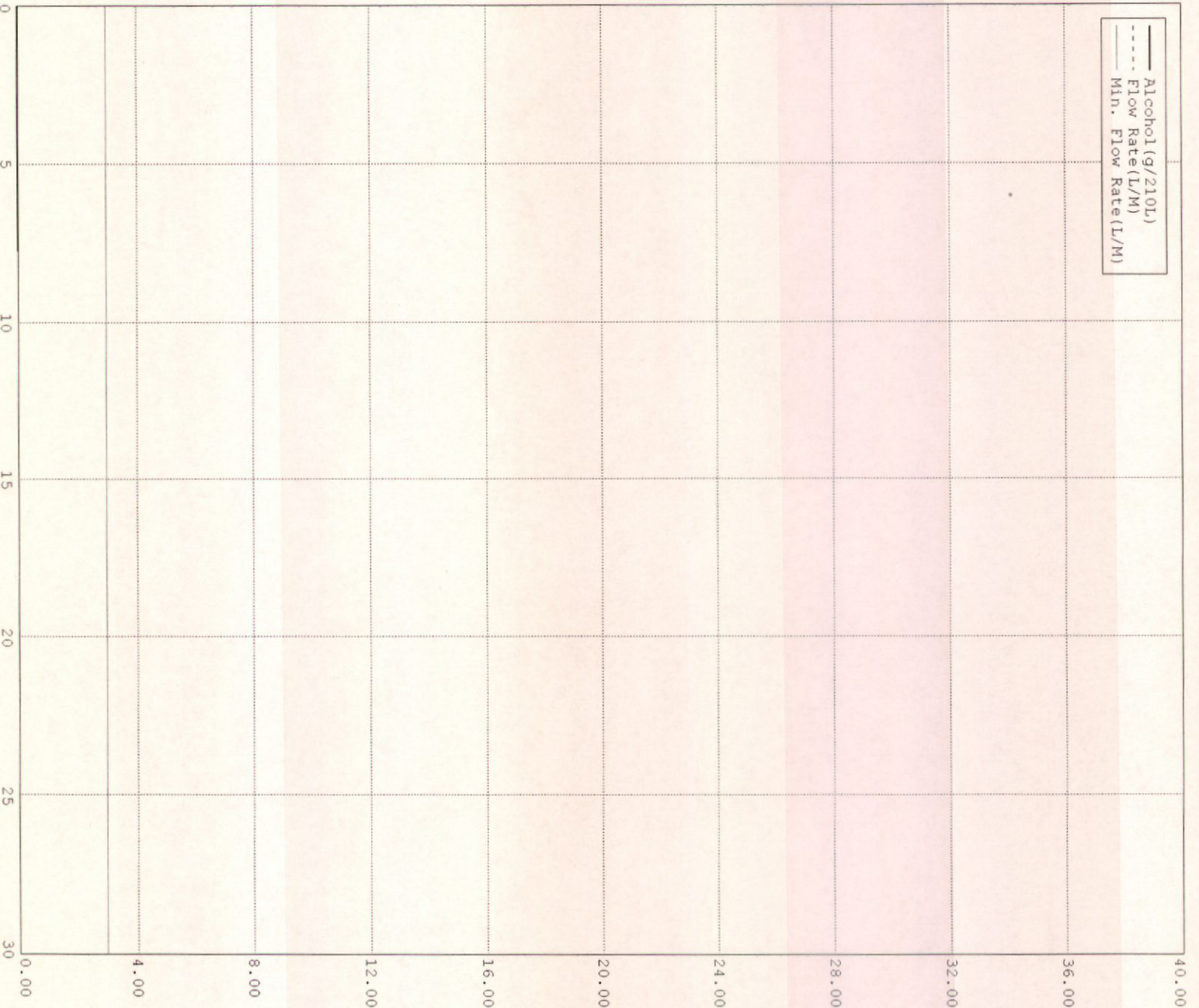
DEPT/AGENCY:
RFI
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.39: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:17
BLANK TEST	0.000	12:18
INTERNAL STANDARD	VERIFIED	12:18
EXTERNAL STANDARD	0.077	12:18
BLANK TEST	0.000	12:19

RFI DETECTED

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 09/01/2021
Time: 09:51:46

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:52
BLANK TEST	0.000	09:53
INTERNAL STANDARD	VERIFIED	09:53
EXTERNAL STANDARD	0.079	09:53
BLANK TEST	0.000	09:54
SUBJECT SAMPLE (Vol=1.99L)	0.000	09:54
BLANK TEST	0.000	09:55
EXTERNAL STANDARD	0.078	09:55
BLANK TEST	0.000	09:56

BMB

