Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMCEF 2020 R0
Status: Active

Carlie Glaister

Instrument S/N 100353 **Analyst** C. O'Bryant **Start Date** 10/15/21

☑ Diagnostic Test (attached) ☑ Internal Standard value ≤ 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 Lot AG100401 Exp 1/4/23
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 AG108404 Exp 3/25/23
v. 0.200g/210L Mnf Guth Lot 20510 Exp 12/3/22
Simulator S/N DR4161 Date Calibrated 6/16/21
vi. 0.300g/210L Mnf Guth Lot 21030 Exp 2/2/23
Simulator S/N SD1202 Date Calibrated 6/15/21

Functional Tests (attached)

☑ Incomplete ☑ Invalid
☑ Interference

i. Acetone - Mnf Guth Lot 1930 Level 0.100 Exp 10/30/21
Simulator S/N SD1177 Date Calibrated 6/15/21
ii. Isopropanol - Mnf Guth Lot 1930 Level 0.100 Exp 10/30/21
Simulator S/N SD1198 Date Calibrated 6/15/21
iii. Negative Control - Mnf Guth Lot 1930 Level 0.100 Exp 10/30/21
Simulator S/N SD1088 Date Calibrated 6/15/21

☑ Exceeded Attempts ☑ RFI

☑ Verify stylus is calibrated
☑ Reset Options
☑ Clear Memory
☑ Remove tank prior to shut down

☑ Verification of Calibration
☑ Non-Drinking Subject Test (attached)
☑ Upload
☑ Add Linearity Data to Spreadsheet

End Date 10/15/21

All printed copies are uncontrolled.

Approved by Forensic Alcohol Supervisor

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 10/15/2021
Time: 08:57:55

VERSIONS
DMT: 3.02
PIC: 3.07
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.84 V	PASSED
(1.10 V - 2.58 V)	
Cooler Voltage = 1.80 V	PASSED
(1.08 V - 2.52 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 5.342 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 = 0.113 0.08% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100353

Date: 10/15/2021
Time: 9:19 AM

Temperatures (°C)	
Sample Cell:	48.7°C
Breath Tube:	47.4°C
Current Barometer	29.3 in
Volume (Ltr)	1.42
Settings	
Lamp:	1.73 V
Bias:	80 V
Cooler:	1.80 V
Chopper:	531 Hz
Voltages (V)	
Flow:	1.06 V
Detector:	0.035 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 10/12/2021
Time: 14:26:34

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca	= 0.1000		
CAL	= 0.972932	0.800 <= CAL <	1.200
b1	= 0.0012	0.0000 <= b1 <	0.0040
b2	= 0.0049	0.0010 <= b2 <	0.0100
b3	= 0.0012	0.0000 <= b3 <	0.0040
Xq	= 0.1125	0.0500 <= Xq <	0.2000
a21	= 1.120970	1.050 <= a21 <	1.300
a31	= 0.544609	0.300 <= a31 <	0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 10/15/2021
Time: 09:21:48

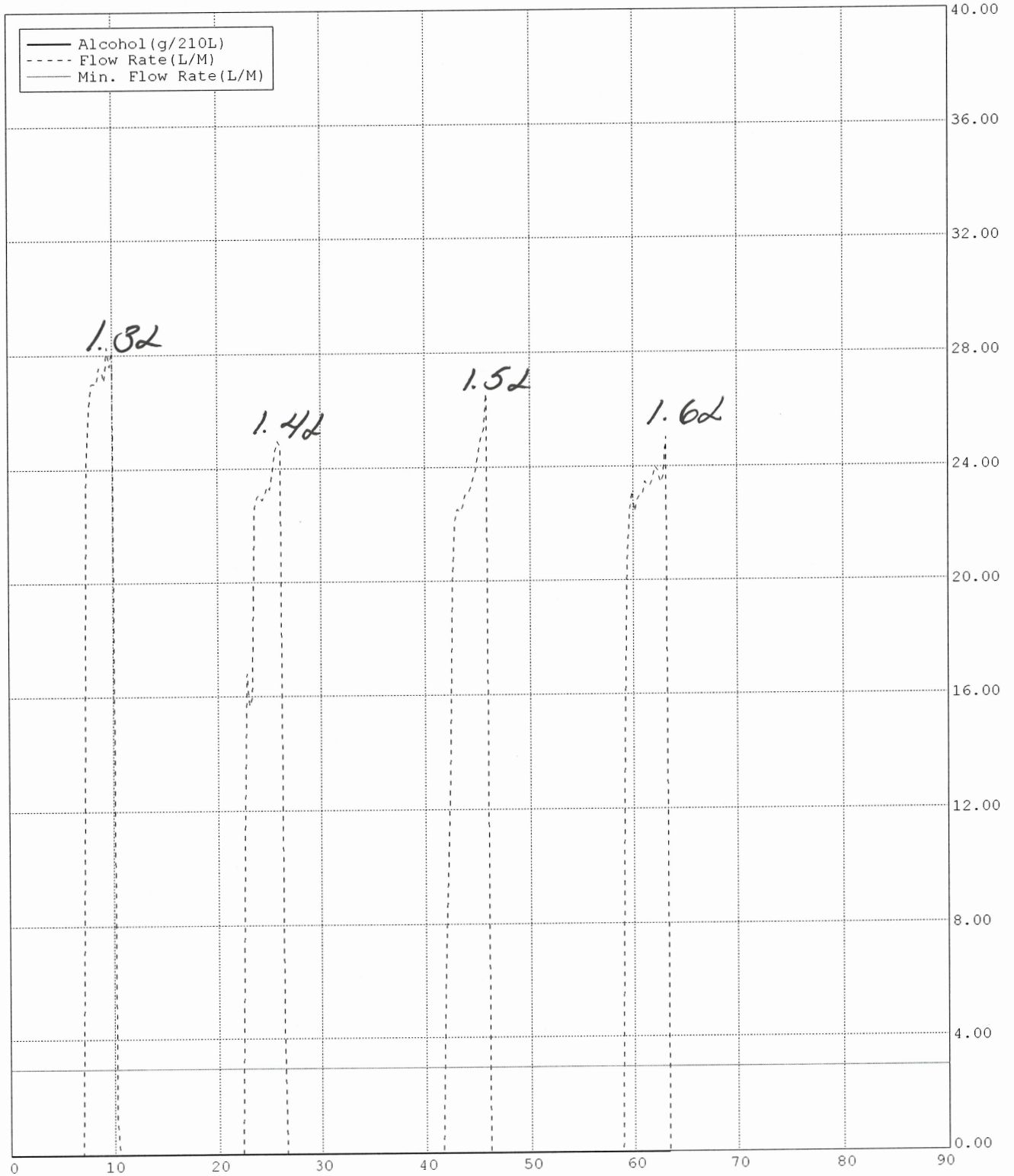
SUBJECT NAME:
TEST TEST
LICENSE #: MIN VOLUME

OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.31: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:22
BLANK TEST	0.000	09:22
INTERNAL STANDARD	VERIFIED	09:23
EXTERNAL STANDARD	0.076	09:23
BLANK TEST	0.000	09:24
SUBJECT SAMPLE (Vol=1.61L)	0.000	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.076	09:26
BLANK TEST	0.000	09:27



LINEARITY CHECK

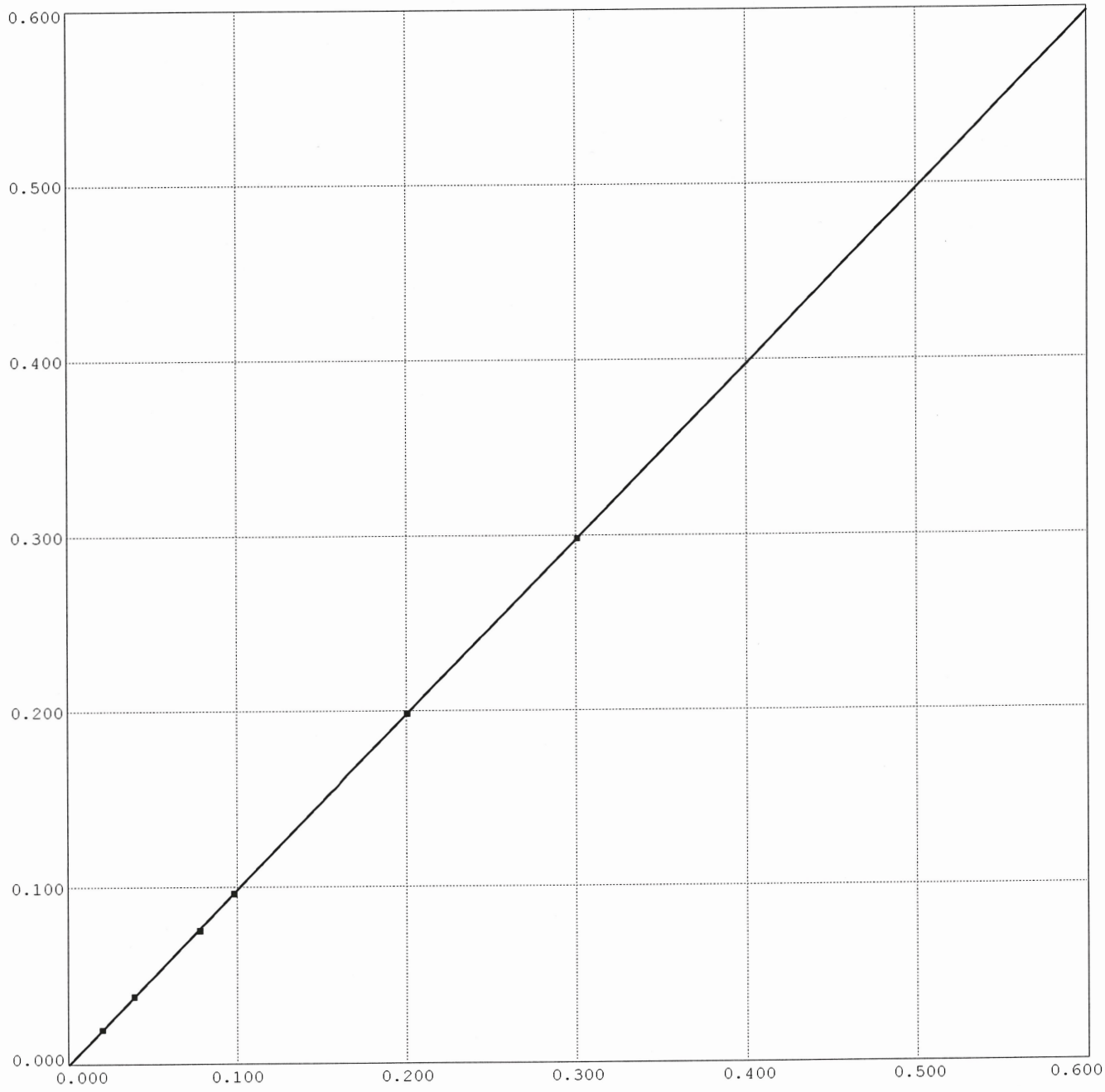
Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 10/15/2021
Time: 09:31:45

SUPERVISOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0388	0.0004
0.078	0.0764	0.0005
0.098	0.0972	0.0004
0.200	0.1992	0.0004
0.300	0.2988	0.0004

SLOPE = 0.997091
R^2 = 0.999977

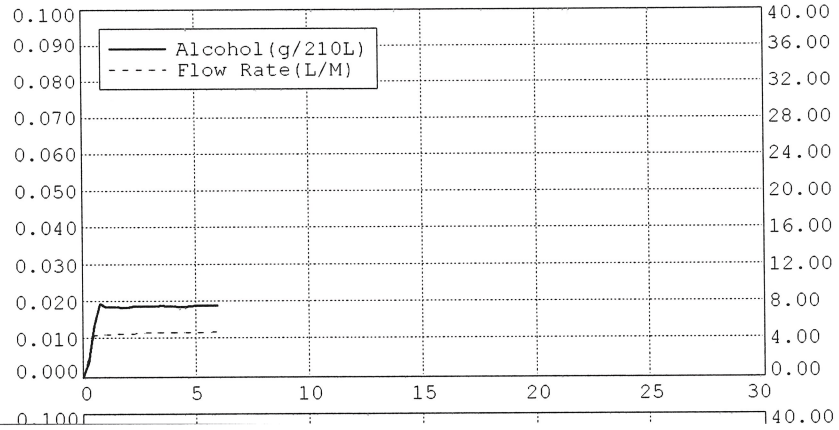


LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 10/15/2021
Time: 09:31:48

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.32: 0.020
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 1111 psi



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 10/15/2021
Time: 11:50:45

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

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

DIAGNOSTIC CHECK	PASSED	11:53
BLANK TEST	0.000	11:53
INTERNAL STANDARD	VERIFIED	11:53
Xq = 0.113 (0.24%)		
EXTERNAL STANDARD	0.077	11:53
X[1] = 0.0772 (-0.0003)	(0.0022)	
BLANK TEST	0.000	11:54
SUBJECT SAMPLE	XXX	11:55
X[1] = 0.1166 (-0.0230)	(0.0016)	

Interference Detected

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 10/15/2021
Time: 11:57:57

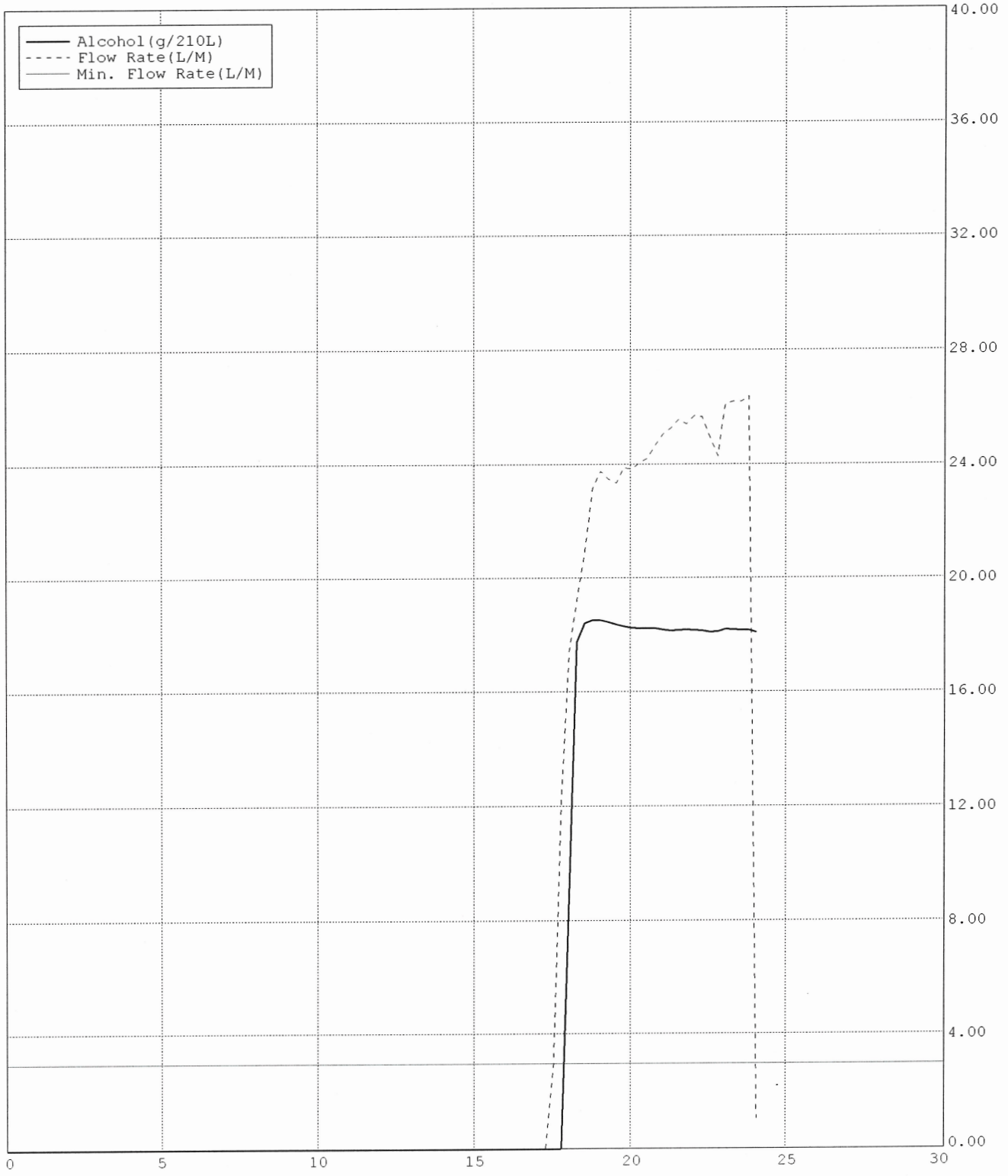
SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

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

DIAGNOSTIC CHECK	PASSED	11:59
BLANK TEST	0.000	11:59
INTERNAL STANDARD	VERIFIED	11:59
Xq = 0.112 (0.08%)		
EXTERNAL STANDARD	0.077	11:59
X[1] = 0.0767 (-0.0004) (0.0017)		
BLANK TEST	0.000	12:00
SUBJECT SAMPLE (Vol=2.46L)	0.090	12:00
X[1] = 0.0904 (-0.0005) (0.0015)		
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.076	12:02
X[1] = 0.0762 (-0.0005) (0.0020)		
BLANK TEST	0.000	12:03



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 10/15/2021
Time: 11:32:42

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

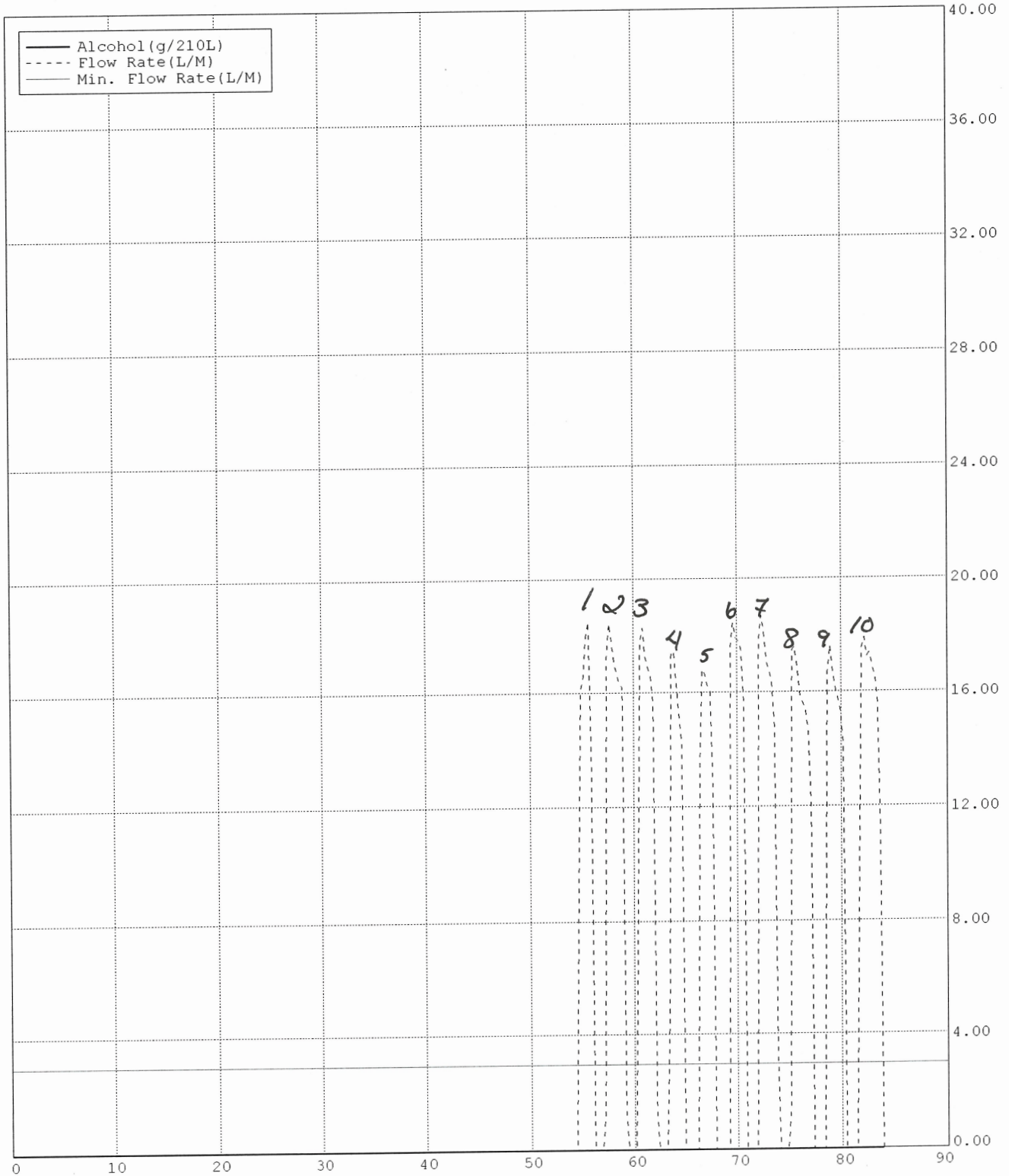
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.36: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	11:34
BLANK TEST	0.000	11:34
INTERNAL STANDARD	VERIFIED	11:34
EXTERNAL STANDARD	0.077	11:34
BLANK TEST	0.000	11:35
SUBJECT SAMPLE	XXX	11:37

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 10/15/2021
Time: 14:05:07

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

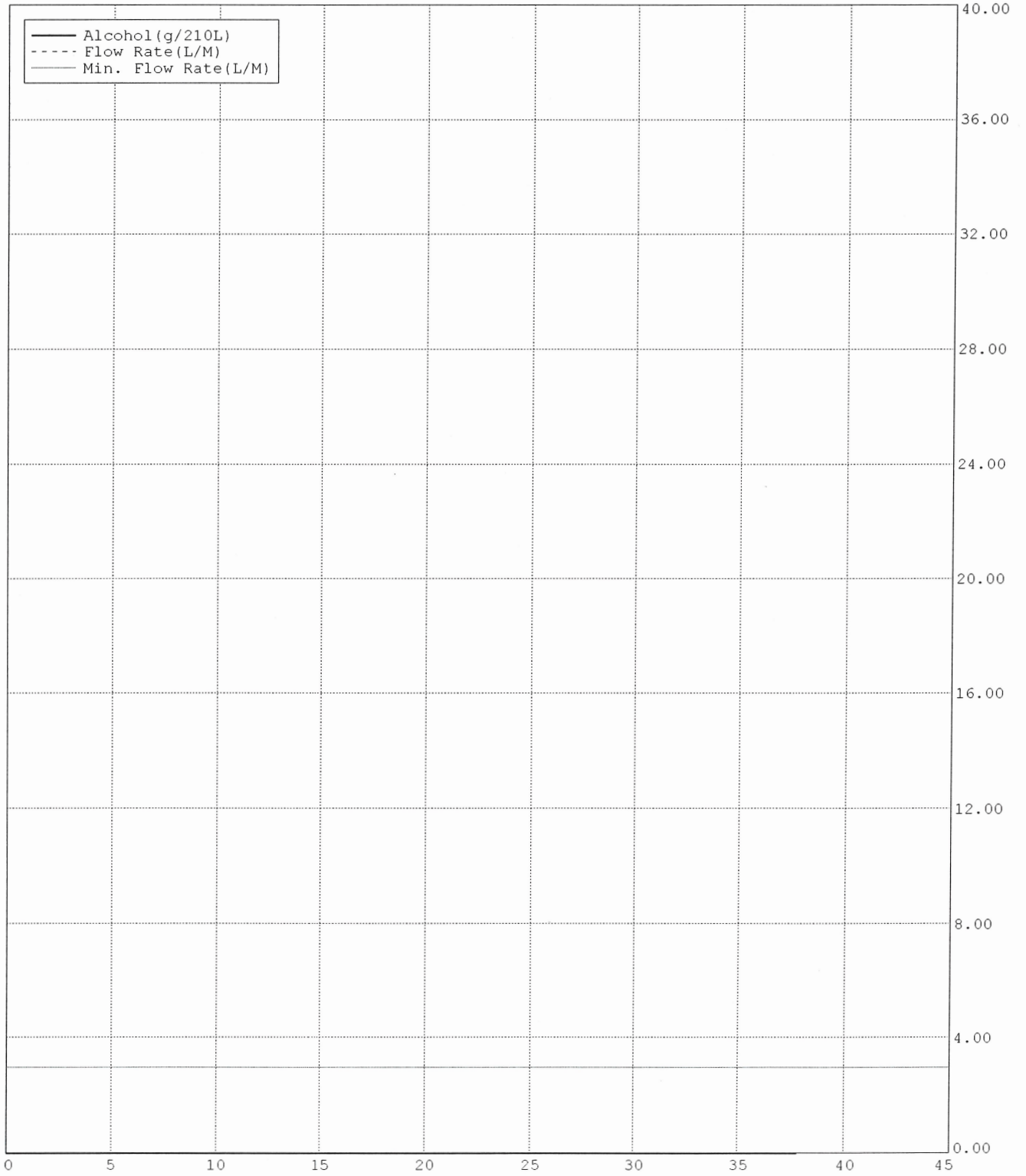
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:06
BLANK TEST	0.000	14:06
INTERNAL STANDARD	VERIFIED	14:06
EXTERNAL STANDARD	0.077	14:06
BLANK TEST	0.000	14:07

RFI DETECTED



SUBJECT TEST

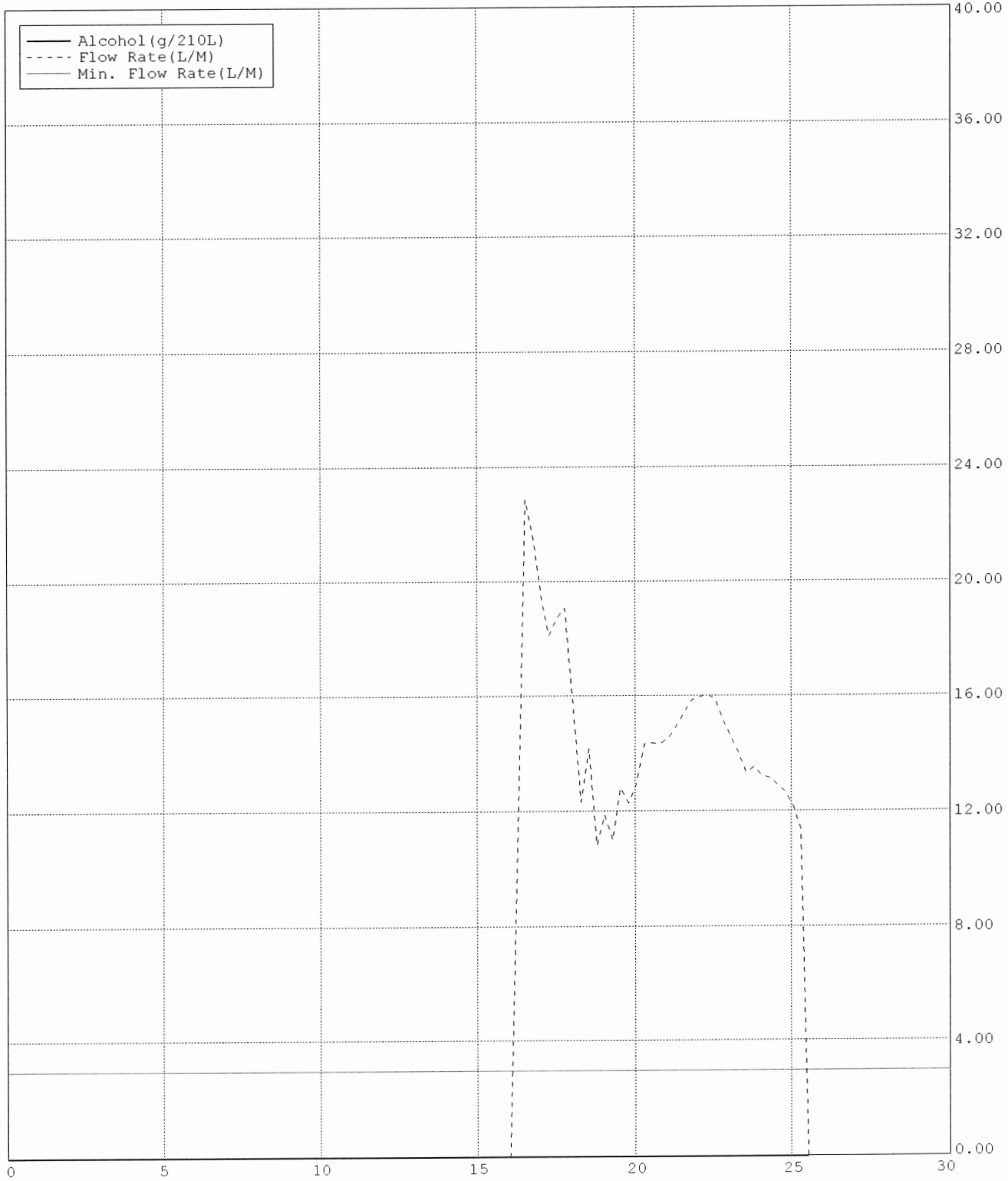
Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 10/15/2021
Time: 14:23:49

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:24
BLANK TEST	0.000	14:24
INTERNAL STANDARD	VERIFIED	14:25
EXTERNAL STANDARD	0.079	14:25
BLANK TEST	0.000	14:26
SUBJECT SAMPLE (Vol=2.26L)	0.000	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.078	14:27
BLANK TEST	0.000	14:28