

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 100365 Analyst Derech Watten Start Date 04/22/21

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 1.5 L (1.3L to 1.7L)

Linearity Test (attached)

Levels Used

i. 0.020g/210L Mnf Airgas Lot A6928203 Exp 10/09/21

ii. 0.040g/210L Mnf Airgas Lot A6915607 Exp 06/05/21

iii. 0.080g/210L Mnf Airgas Lot A6018102 Exp 06/29/22

iv. 0.100g/210L Mnf Airgas Lot AG924701 Exp 09/04/21

v. 0.200g/210L Mnf Auth Lot 19200 Exp 08/06/21

Simulator S/N DR4161 Date Calibrated 05/08/20

vi. 0.300g/210L Mnf Auth Lot 19330 Exp 11/13/21

Simulator S/N DR5298 Date Calibrated 05/08/20

Functional Tests (attached)

Incomplete

Invalid

Interference

i. Acetone - Mnf Auth Lot 19301 Level 0.100 Exp 10/30/21

Simulator S/N SD1202 Date Calibrated 05/08/20

ii. Isopropanol - Mnf Auth Lot 19301 Level 0.100 Exp 10/30/21

Simulator S/N SD1177 Date Calibrated 05/07/20

iii. Negative Control - Mnf Auth Lot 19301 Level 0.100 Exp 10/30/21

Simulator S/N DR6267 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 04/23/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 04/22/2021
Time: 12:34:00

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 = 46.8°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.83 V PASSED
(1.13 V - 2.65 V)
Cooler Voltage = 1.84 V PASSED
(1.10 V - 2.58 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 540 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 5.081 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
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.098 0.36% ✓ (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100365

Date: 04/22/2021

Time: 12:52 PM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 43.8°C

Current Barometer 29.9 in

Volume (Ltr) 1.54

Settings

Lamp: 1.83 V

Bias: 80 V

Cooler: 1.84 V

Chopper: 526 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.029 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 03/31/2021
Time: 11:51:43

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

Ca = 0.1010
CAL = 1.003646 0.800 <= CAL < 1.200
b1 = 0.0009 0.0000 <= b1 < 0.0040
b2 = 0.0068 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.0976 0.0500 <= Xq < 0.2000
a21 = 1.163569 1.050 <= a21 < 1.300
a31 = 0.448856 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 04/22/2021
Time: 12:53:55

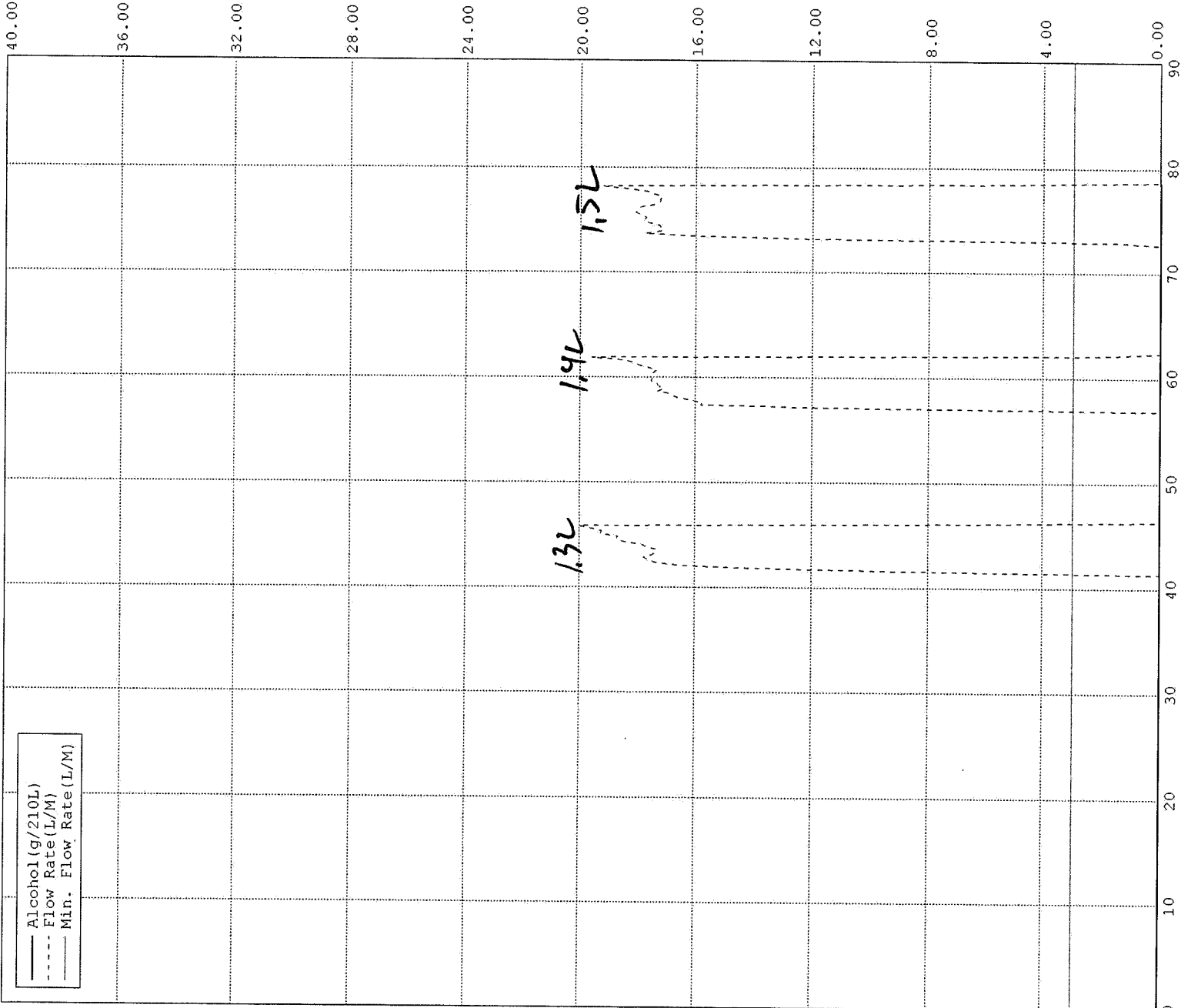
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.88: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:54
BLANK TEST	0.000	12:55
INTERNAL STANDARD	VERIFIED	12:55
EXTERNAL STANDARD	0.080	12:55
BLANK TEST	0.000	12:56
SUBJECT SAMPLE (Vol=1.54L)	0.000	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.080	12:58
BLANK TEST	0.000	12:59



LINEARITY CHECK

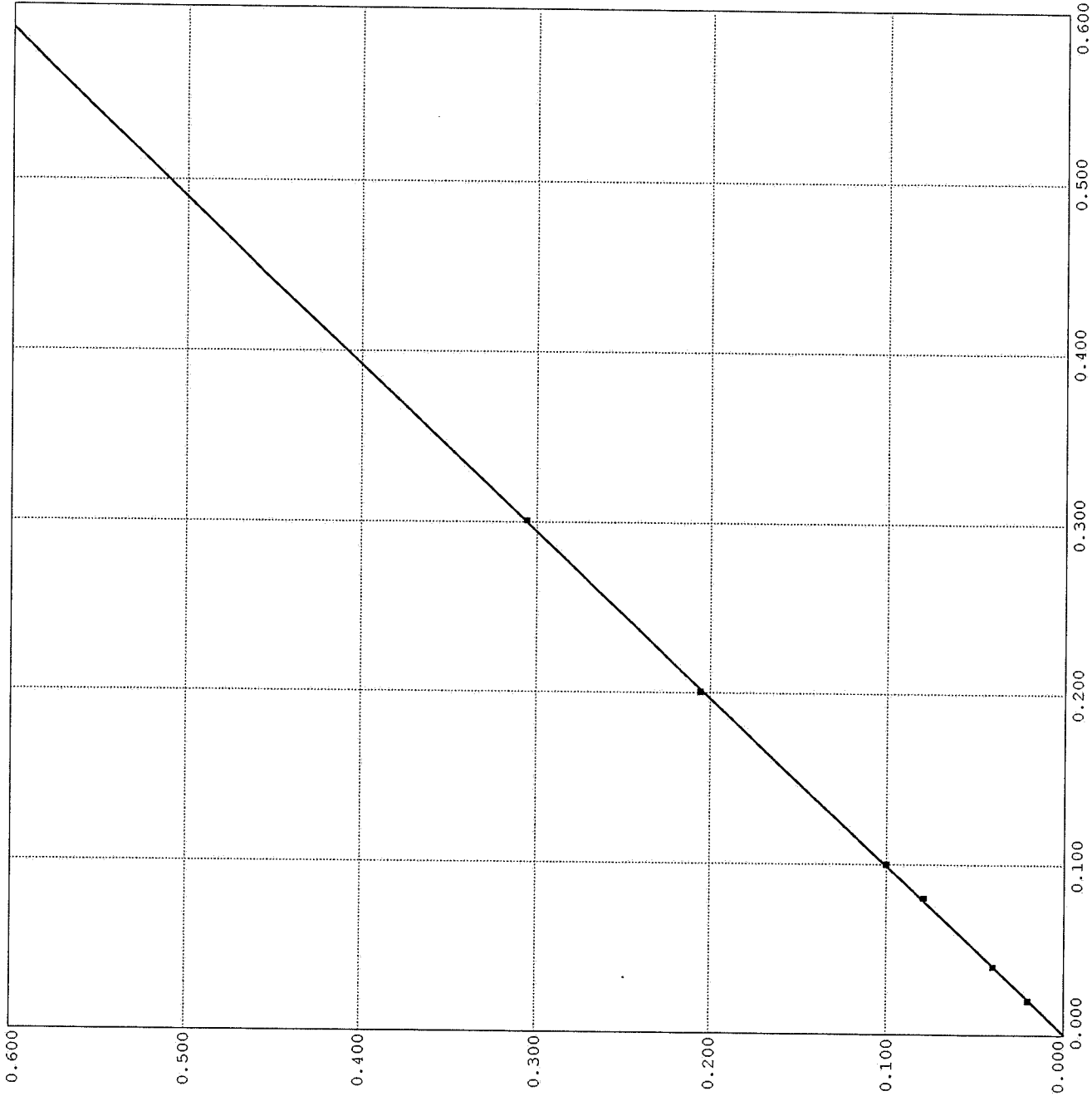
 Alaska Department of Public Safety
 DATAMASTER dmt: 100365

Date: 04/22/2021
 Time: 13:02:54

SUPERVISOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0210	0.0000
0.040	0.0410	0.0000
0.080	0.0800	0.0000
0.100	0.1012	0.0004
0.200	0.2064	0.0005
0.300	0.3064	0.0005

SLOPE = 1.024621
 R² = 0.999866



DW

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100365

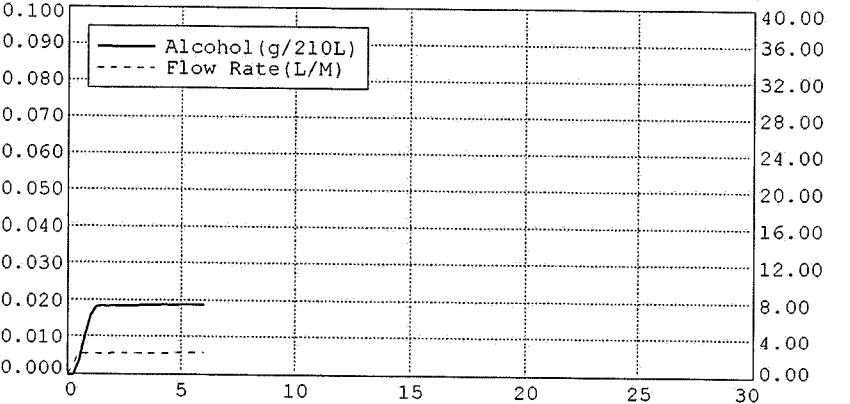
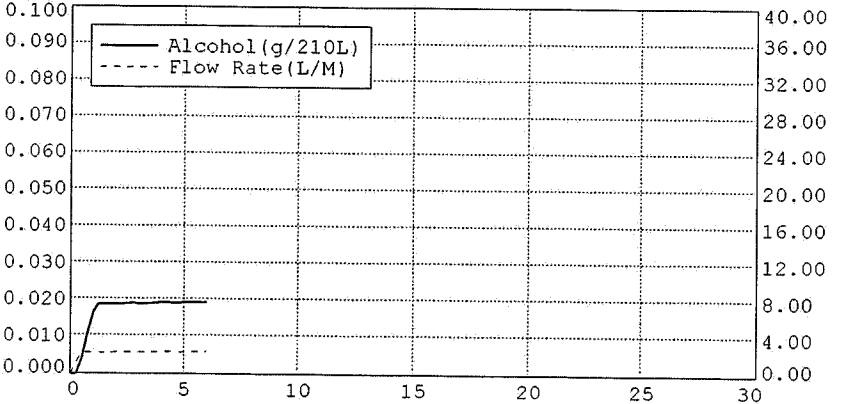
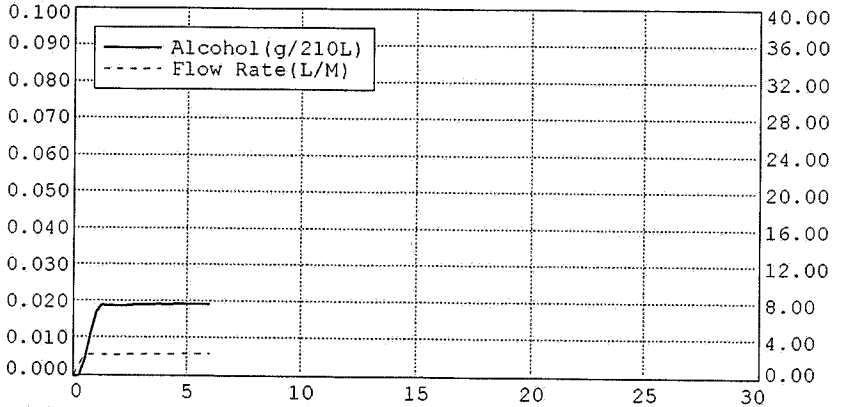
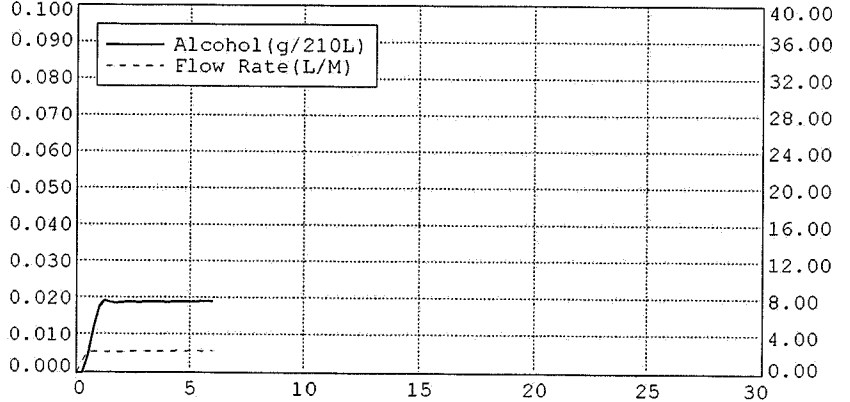
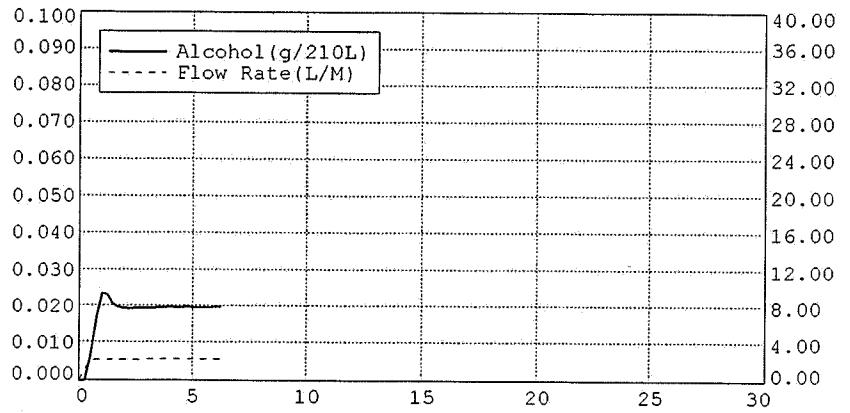
Date: 04/22/2021
 Time: 13:02:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.88: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 600 psi

BLANK TEST	0.000	13:04
INTERNAL STANDARD	VERIFIED	13:04
EXTERNAL STANDARD	0.021	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.021	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.021	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.021	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.021	13:08
BLANK TEST	0.000	13:09

Average = 0.0210
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100365

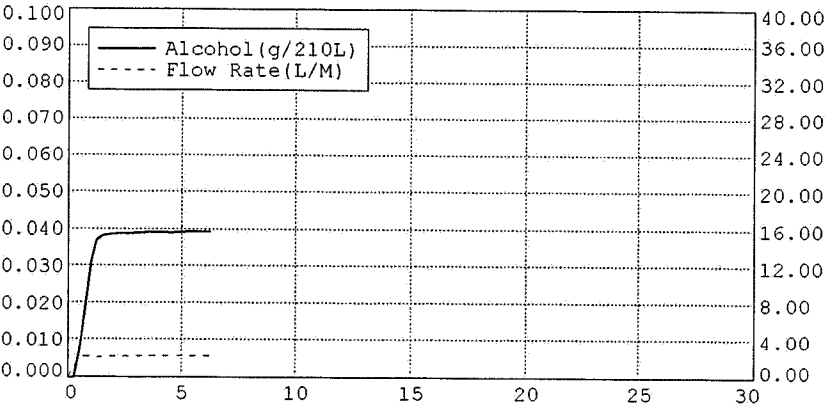
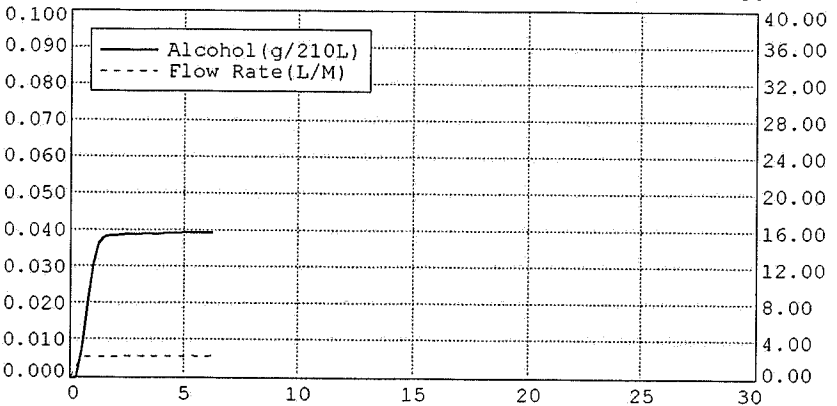
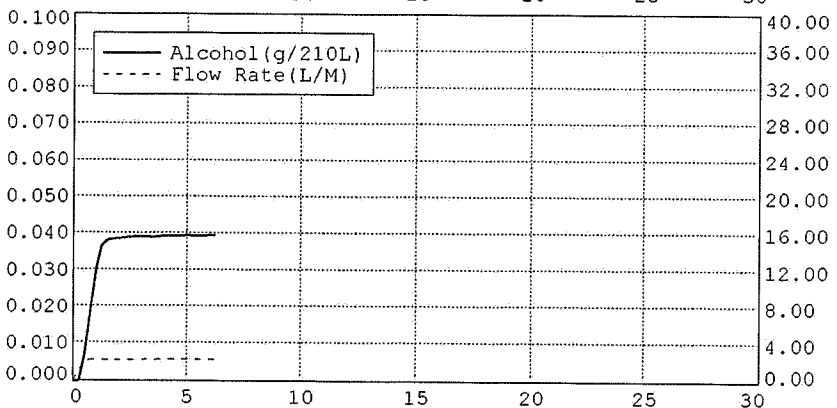
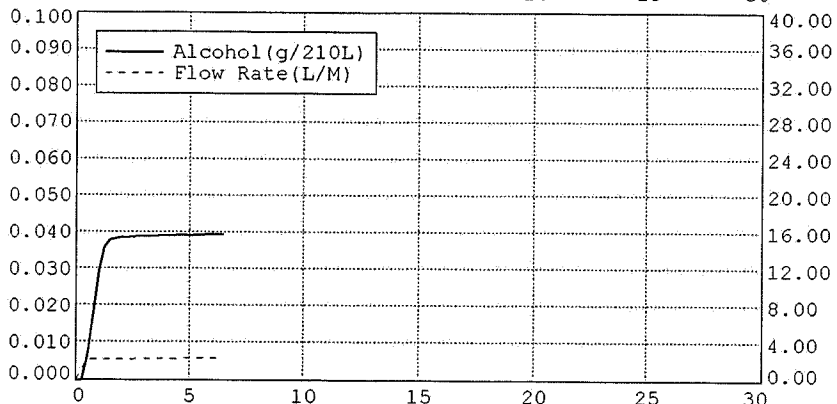
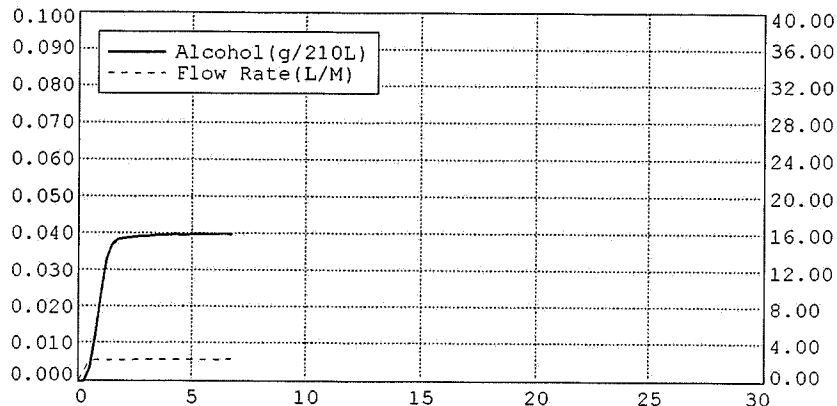
Date: 04/22/2021
 Time: 13:13:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.88: 0.040
 LOT #: AG915607
 EXPIRATION: 06/05/2021
 TANK PRESSURE: 564 psi

BLANK TEST	0.000	13:14
INTERNAL STANDARD	VERIFIED	13:14
EXTERNAL STANDARD	0.041	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.041	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.041	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.041	13:18
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.041	13:19
BLANK TEST	0.000	13:20

Average = 0.0410
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100365

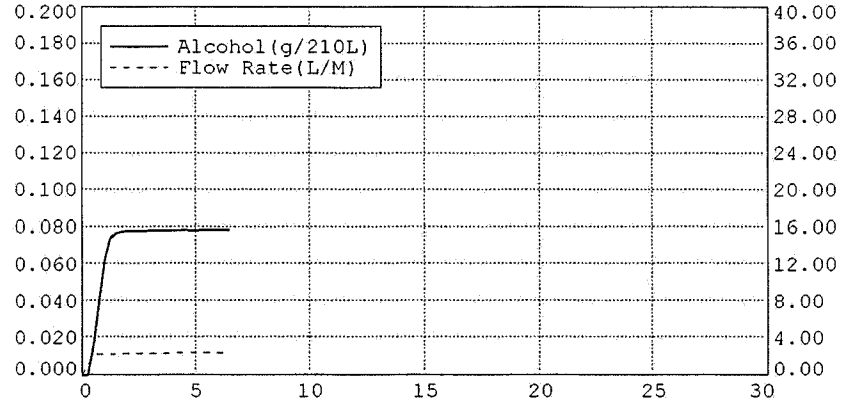
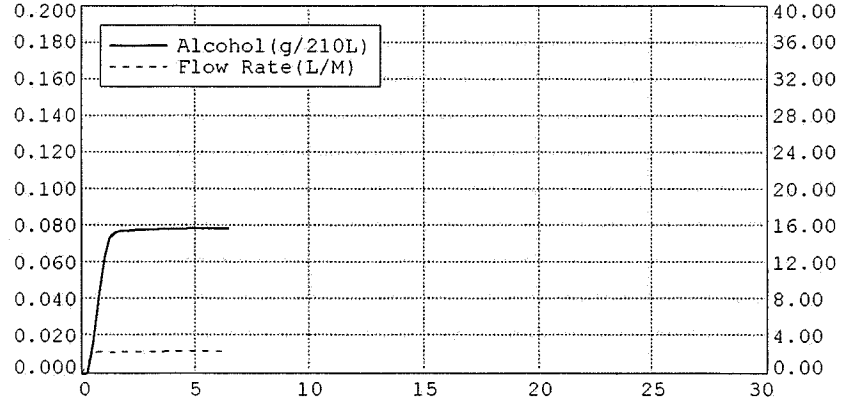
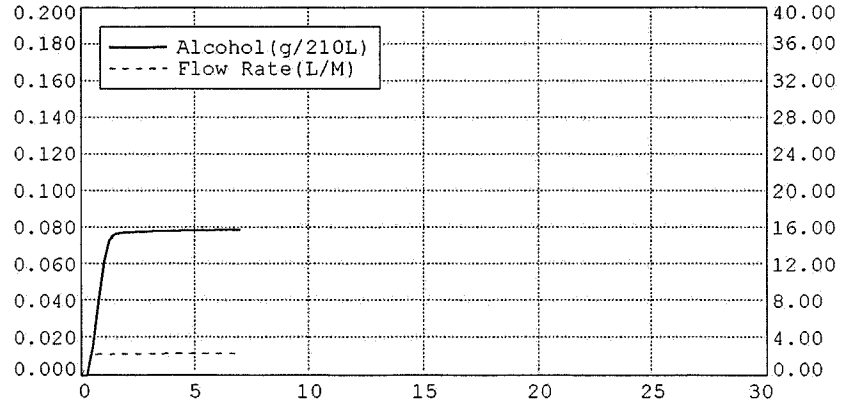
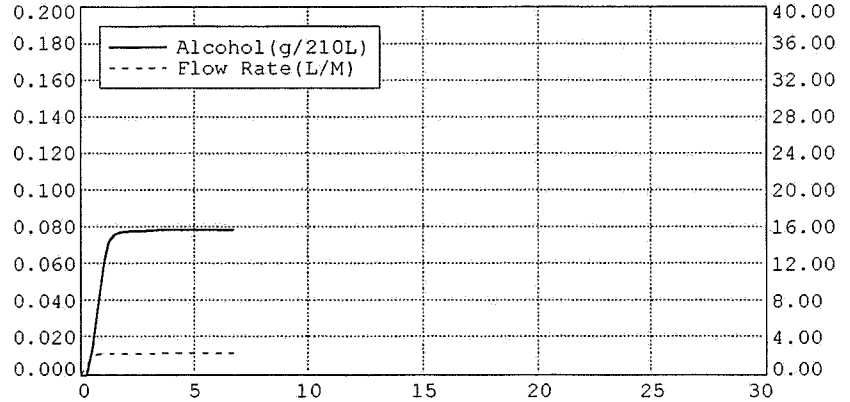
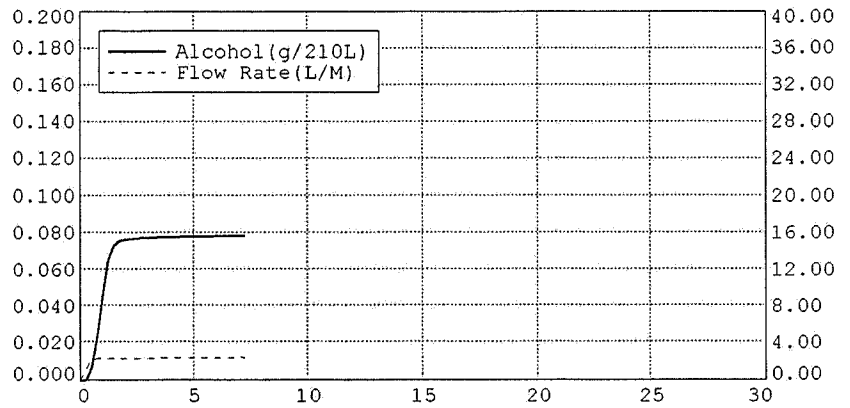
Date: 04/22/2021
 Time: 13:20:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.87: 0.080
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 658 psi

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:22
EXTERNAL STANDARD	0.080	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.080	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.080	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.080	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.080	13:26
BLANK TEST	0.000	13:27

Average = 0.0800
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100365

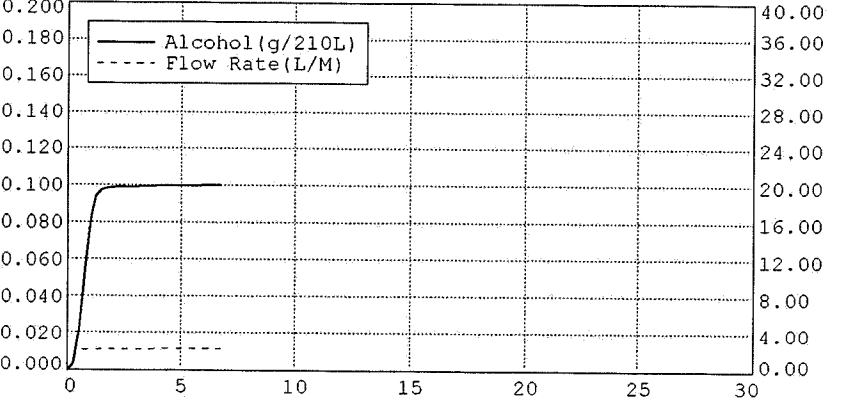
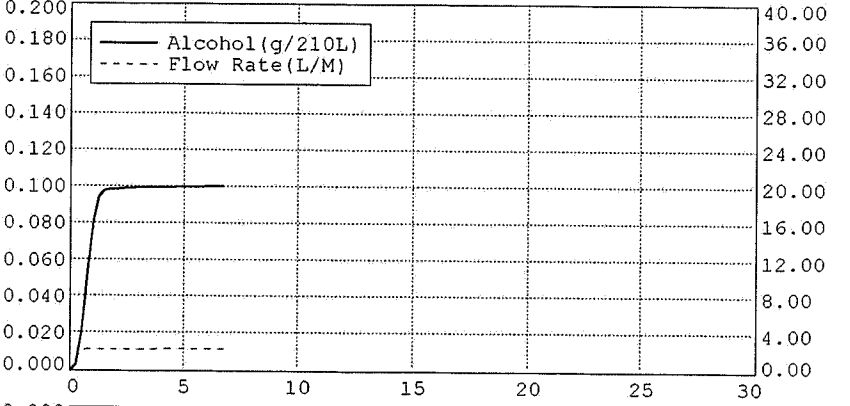
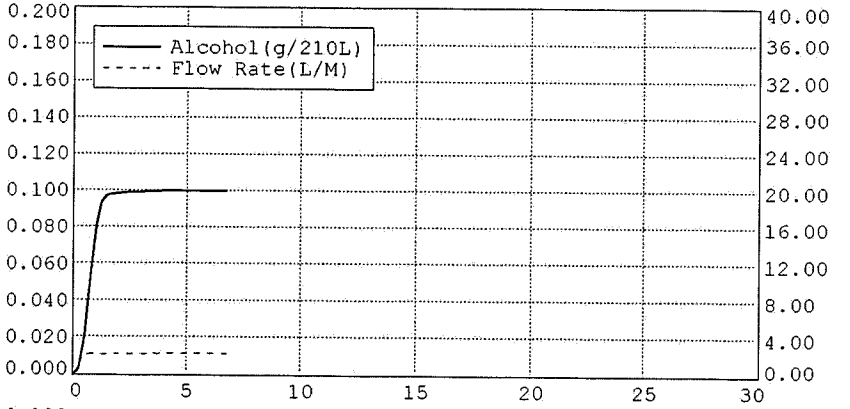
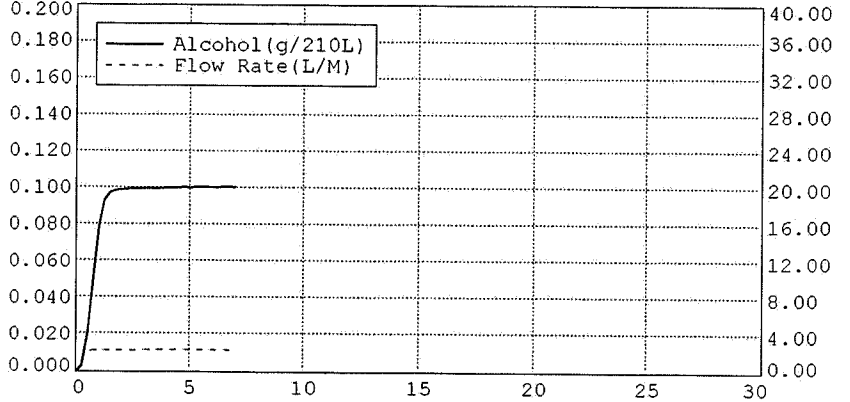
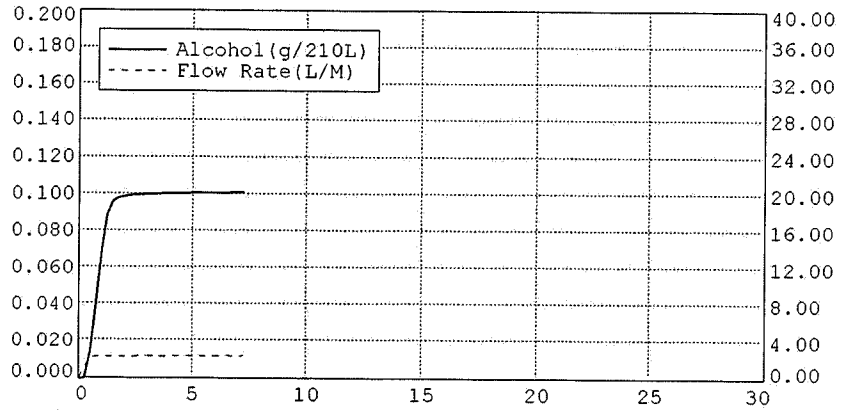
Date: 04/22/2021
 Time: 13:27:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.87: 0.100
 LOT #: AG924701
 EXPIRATION: 09/04/2021
 TANK PRESSURE: 649 psi

BLANK TEST	0.000	13:29
INTERNAL STANDARD	VERIFIED	13:29
EXTERNAL STANDARD	0.102	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.101	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.101	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.101	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.101	13:33
BLANK TEST	0.000	13:34

Average = 0.1012
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100365

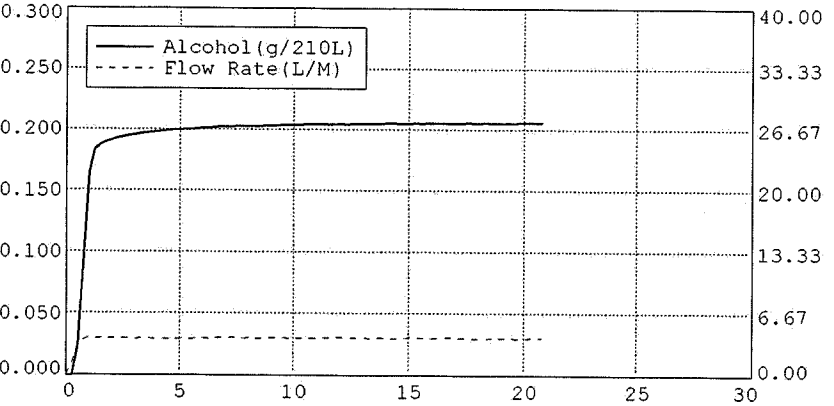
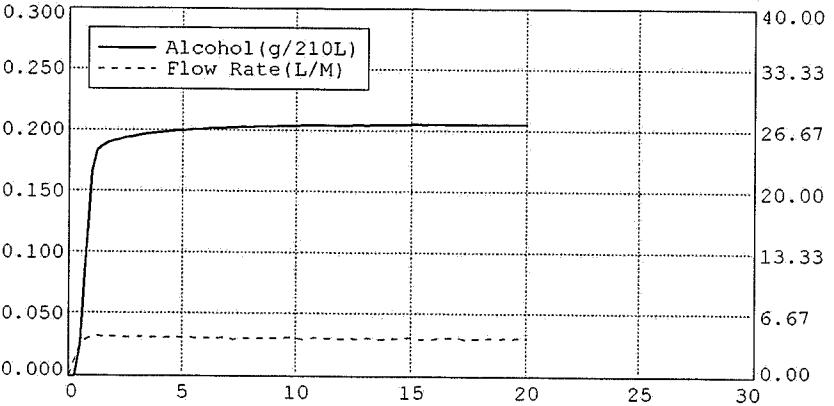
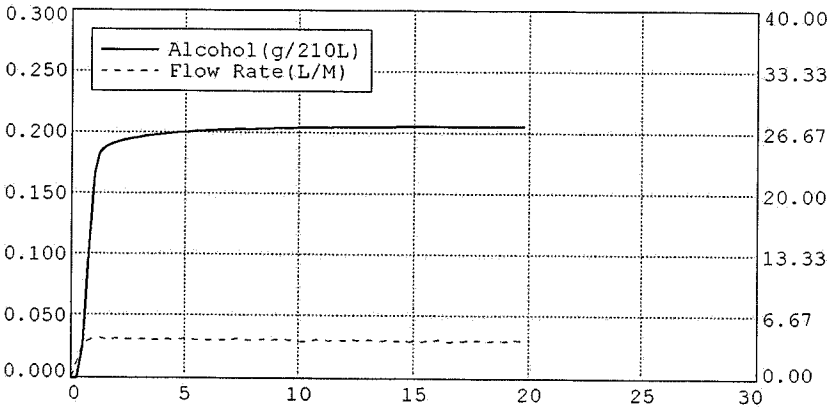
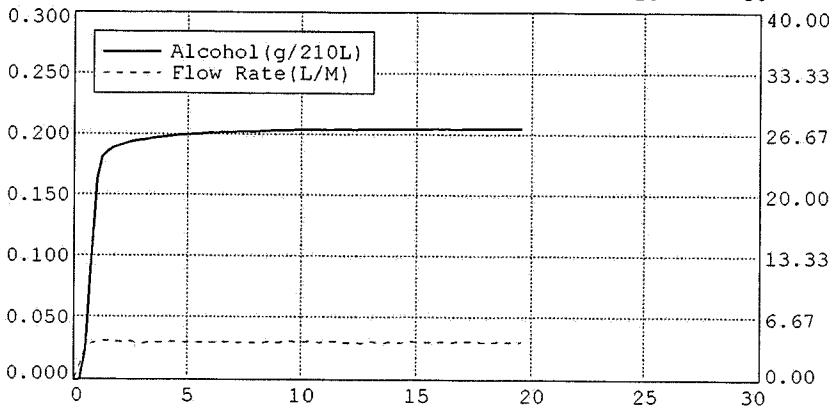
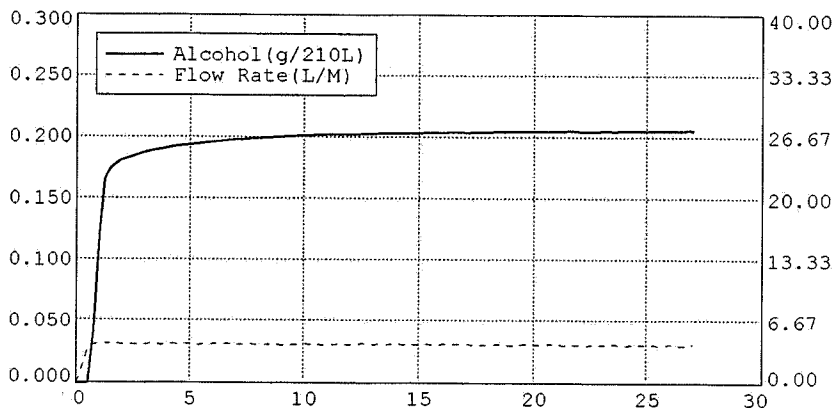
Date: 04/22/2021
 Time: 13:44:48

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:46
EXTERNAL STANDARD	0.207	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.206	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.206	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.206	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.207	13:51
BLANK TEST	0.000	13:52

Average = 0.2064
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100365

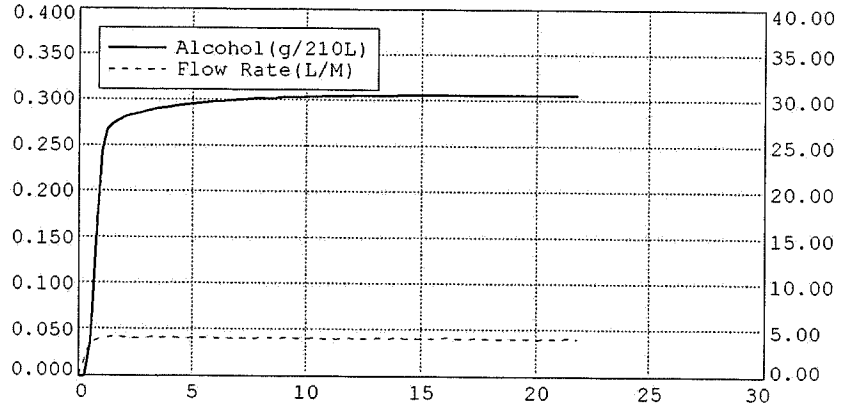
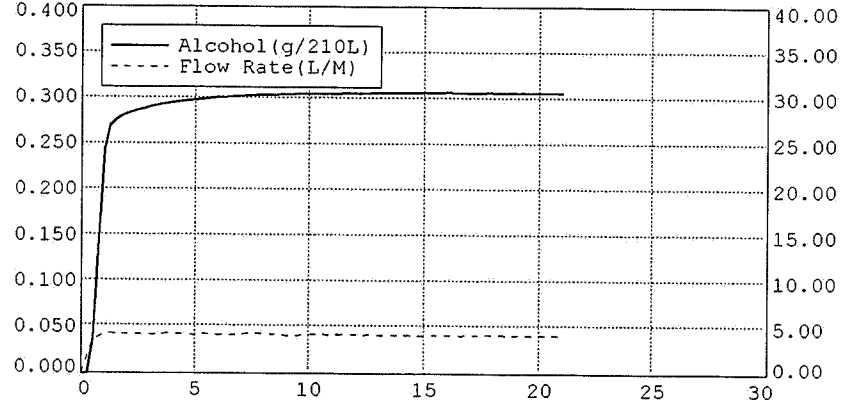
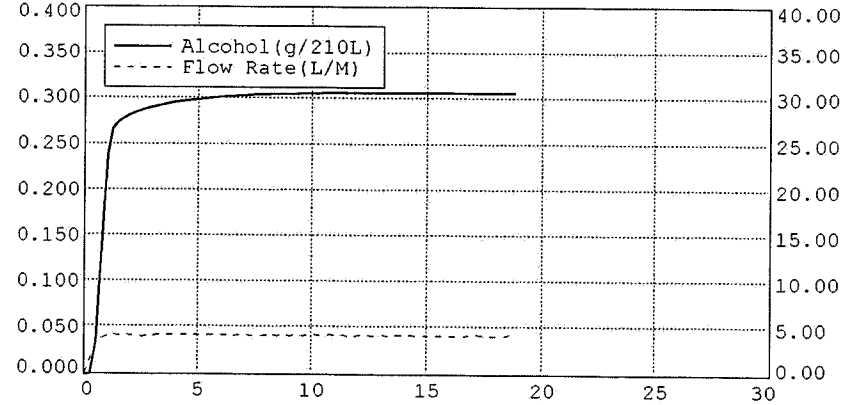
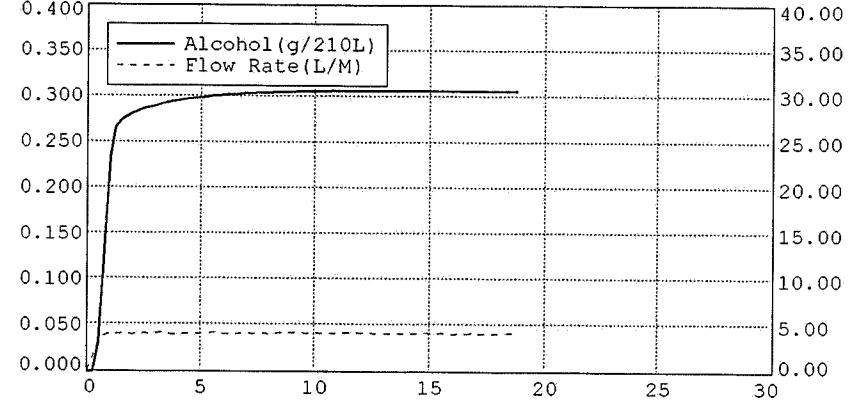
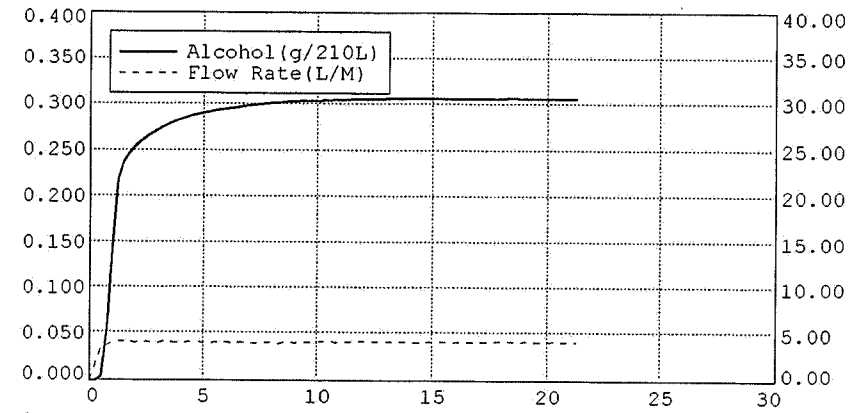
Date: 04/22/2021
 Time: 13:54:36

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:55
INTERNAL STANDARD	VERIFIED	13:56
EXTERNAL STANDARD	0.306	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.306	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.307	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.306	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.307	14:01
BLANK TEST	0.000	14:02

Average = 0.3064
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 04/22/2021
Time: 14:09:42

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

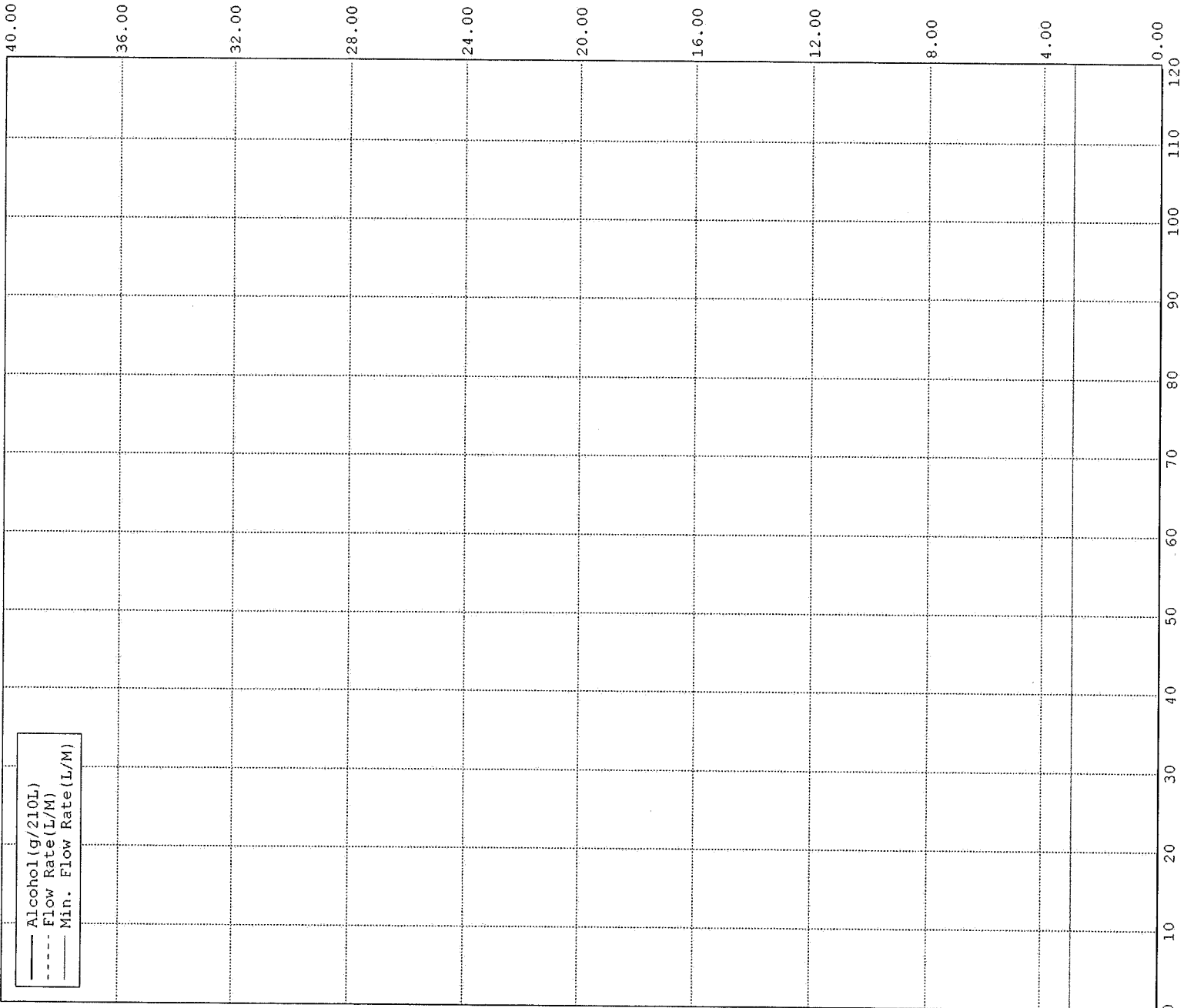
DEPT/AGENCY:
INCOMPLETE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.86: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 14:10
BLANK TEST 0.000 14:10
INTERNAL STANDARD VERIFIED 14:10
EXTERNAL STANDARD 0.079 14:11
BLANK TEST 0.000 14:12
SUBJECT SAMPLE INCOMPLETE 14:14

DM



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 04/23/2021
Time: 13:09:37

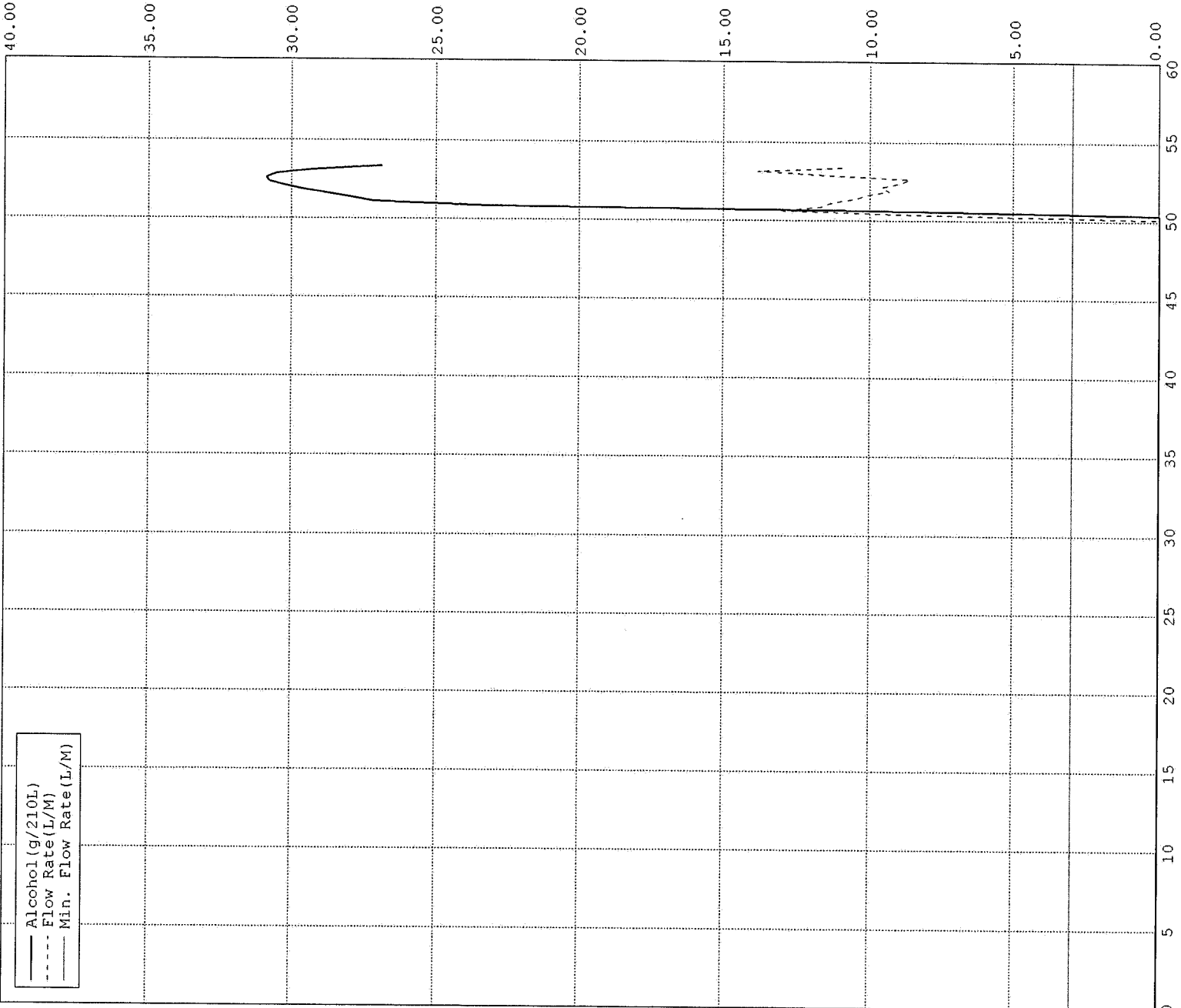
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:12
INTERNAL STANDARD VERIFIED 13:12
EXTERNAL STANDARD 0.080 13:13
BLANK TEST 0.000 13:14
SUBJECT SAMPLE INVALID 13:15



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 04/23/2021
Time: 13:38:39

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

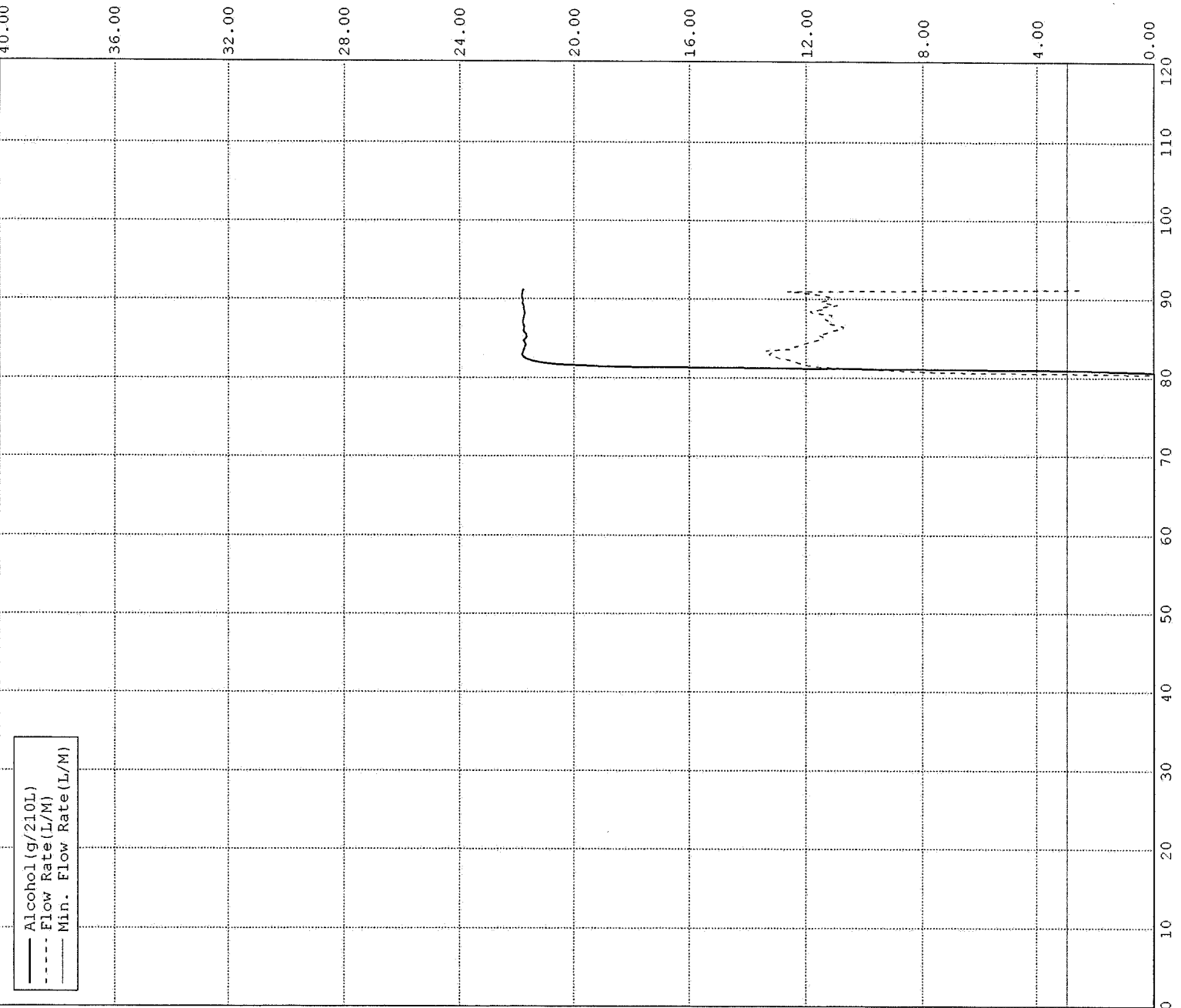
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.76: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:39
BLANK TEST 0.000 13:40
INTERNAL STANDARD VERIFIED 13:40
Xq = 0.098 (0.90%)
EXTERNAL STANDARD 0.079 13:40
X[1] = 0.0794 (-0.0017) (0.0024)
BLANK TEST 0.000 13:41
SUBJECT SAMPLE XXX 13:42
X[1] = 0.1108 (-0.0185) (-0.0006)

Interference Detected

Filter 2 average: -0.0020

Filter 3 average: 0.0020



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 04/23/2021
Time: 13:46:30

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

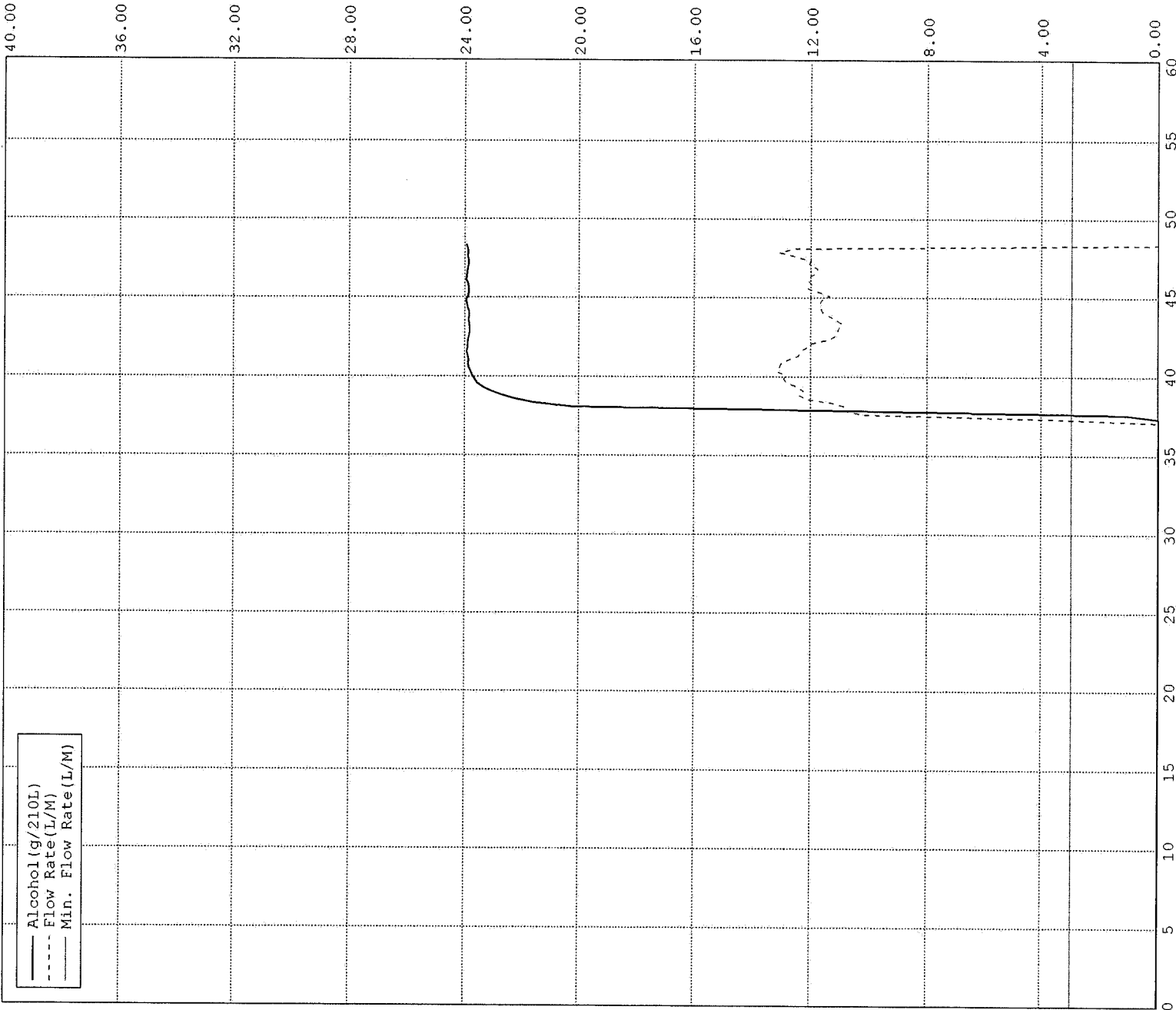
DEPT/AGENCY:
INTERFERENCE ISOPROPANOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:47
BLANK TEST 0.000 13:47
INTERNAL STANDARD VERIFIED 13:47
Xg = 0.098 (0.72%)
EXTERNAL STANDARD 0.080 13:47
X[1] = 0.0797 (-0.0021) (0.0023)
BLANK TEST 0.000 13:48
SUBJECT SAMPLE XXX 13:49
X[1] = 0.1213 (-0.0232) (0.0016)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 04/23/2021
Time: 13:26:44

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

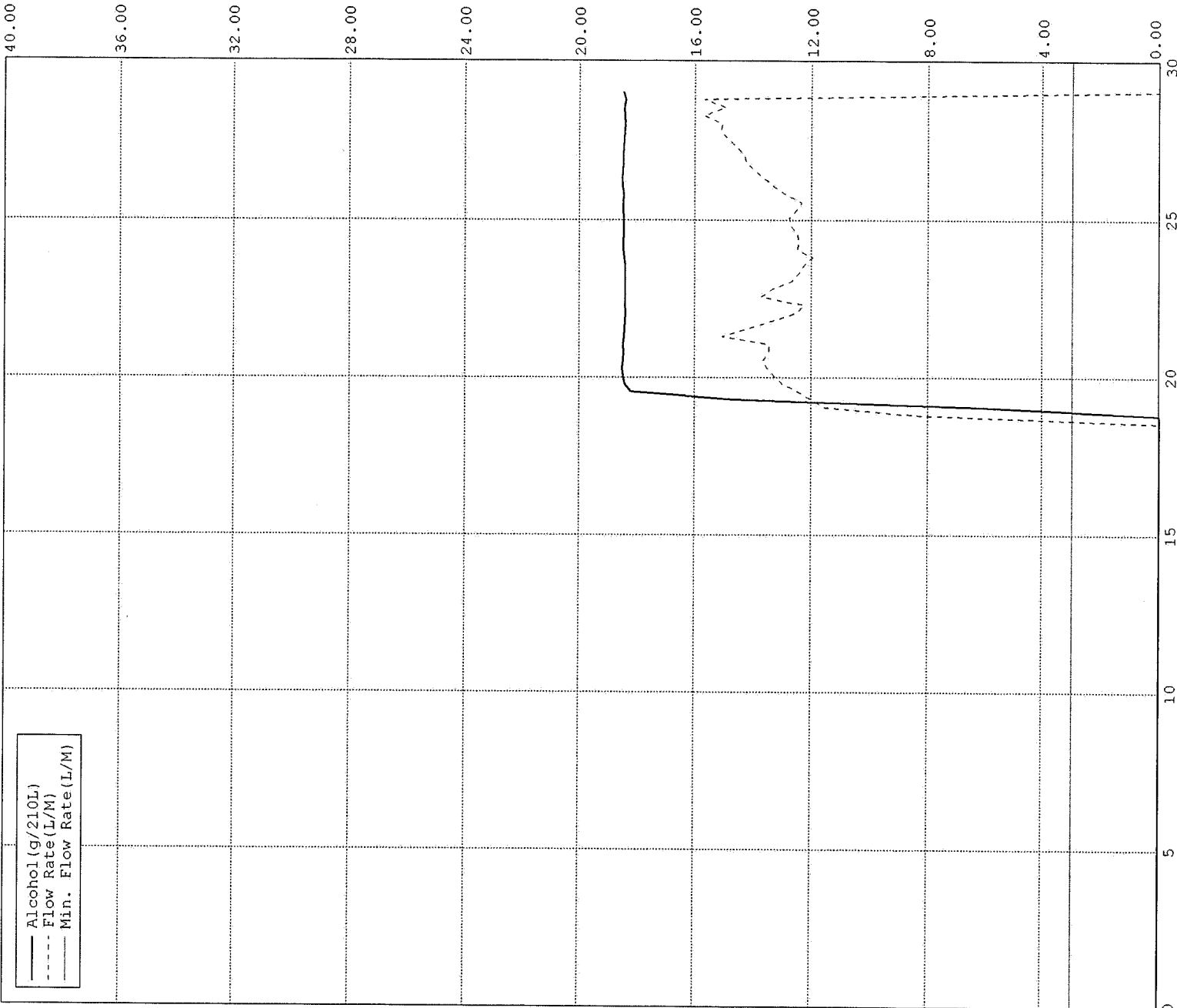
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.76: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	13:28
BLANK TEST	0.000	13:28
INTERNAL STANDARD	VERIFIED	13:28
Xq = 0.099 (0.99%)		
EXTERNAL STANDARD	0.080	13:28
X[1] = 0.0796 (-0.0018) (0.0019)		
BLANK TEST	0.000	13:29
SUBJECT SAMPLE (Vol=2.27L)	0.094	13:30
X[1] = 0.0942 (0.0007) (0.0004)		
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.079	13:31
X[1] = 0.0789 (-0.0022) (0.0012)		
BLANK TEST	0.000	13:32



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 04/22/2021
Time: 14:26:33

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

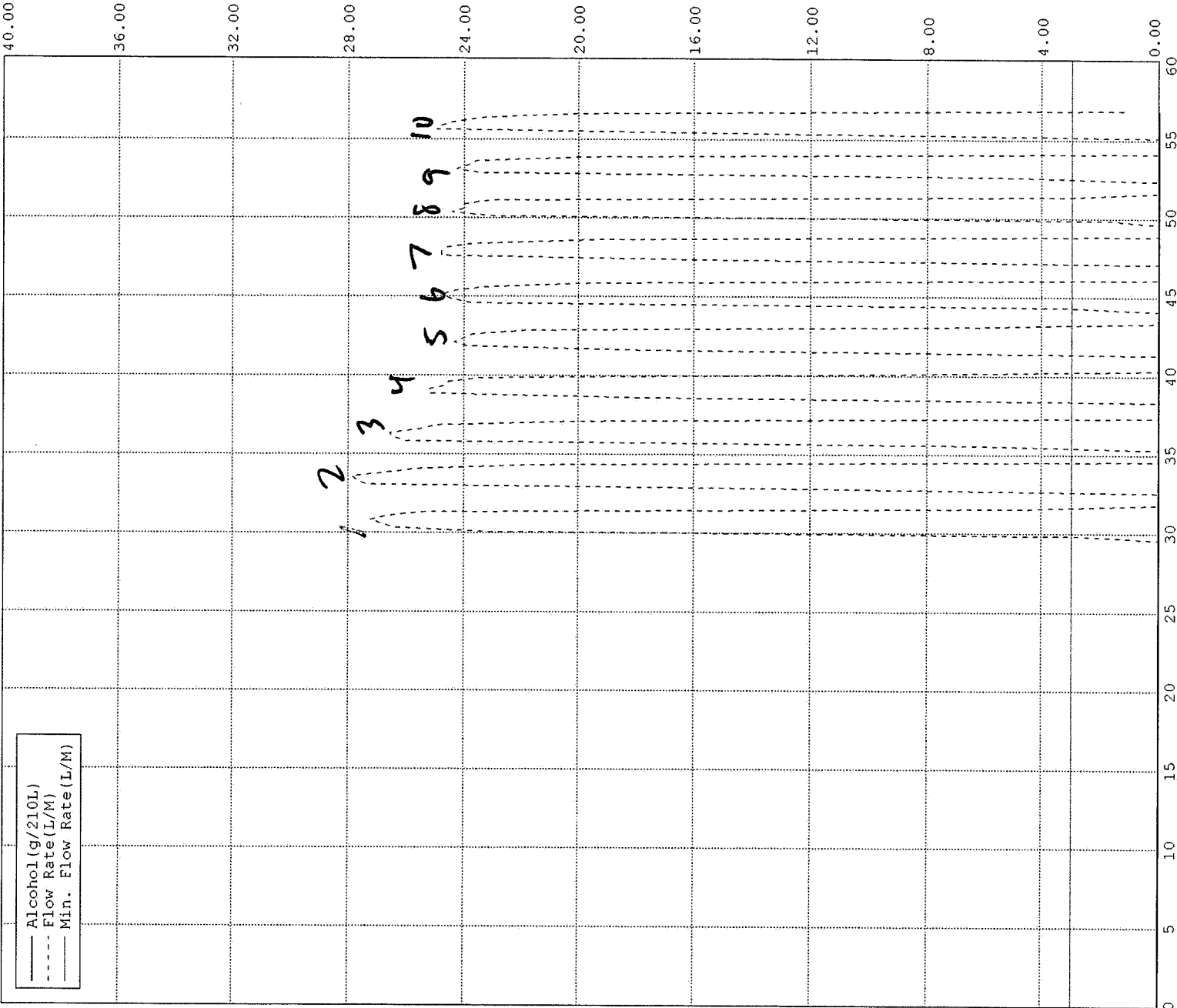
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.86: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 14:28
BLANK TEST 0.000 14:28
INTERNAL STANDARD VERIFIED 14:28
EXTERNAL STANDARD 0.079 14:28
BLANK TEST 0.000 14:29
SUBJECT SAMPLE XXX 14:30

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 04/23/2021
Time: 13:17:23

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

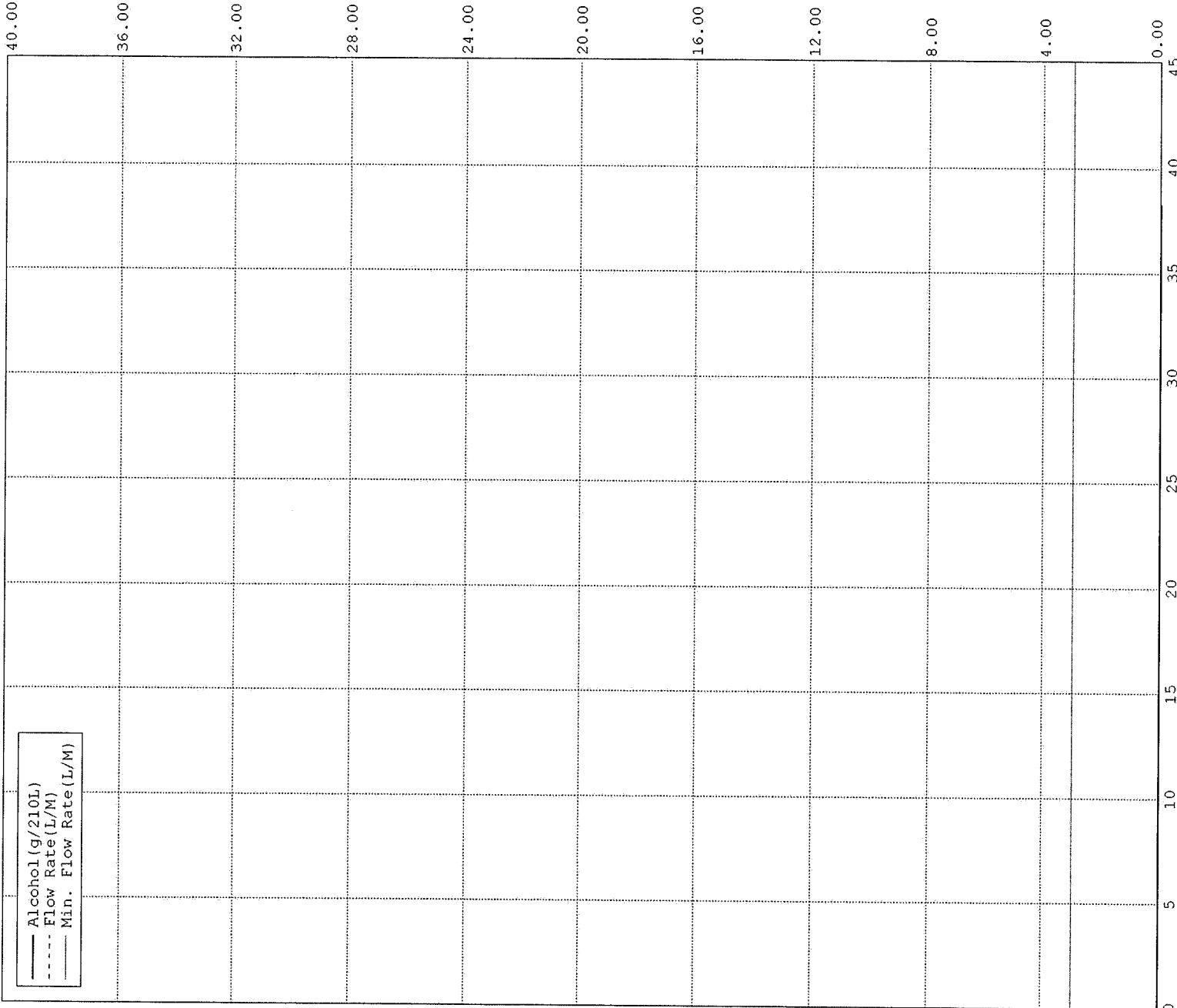
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

DEPT/AGENCY:
RADIO FREQUENCY
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:19
BLANK TEST 0.000 13:19
INTERNAL STANDARD VERIFIED 13:19
EXTERNAL STANDARD 0.079 13:19
BLANK TEST 0.000 13:20

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 04/23/2021
Time: 14:12:33

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.76: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:13
BLANK TEST	0.000	14:13
INTERNAL STANDARD	VERIFIED	14:13
EXTERNAL STANDARD	0.080	14:14
BLANK TEST	0.000	14:14
SUBJECT SAMPLE (Vol=1.66L)	0.000	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.080	14:16
BLANK TEST	0.000	14:17

