

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 100406 Analyst Deron Walton Start Date 07/14/21

- 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 AG928203 Exp 10/09/21
- ii. 0.040g/210L Mnf Airgas Lot AG111710 Exp 04/27/23
- iii. 0.080g/210L Mnf Airgas Lot AG018102 Exp 06/29/22
- iv. 0.100g/210L Mnf Airgas Lot AG924701 Exp 09/04/21
- v. 0.200g/210L Mnf Autm Lot 19200 Exp 08/06/21
Simulator S/N DR6267 Date Calibrated 11/17/20
- vi. 0.300g/210L Mnf Autm Lot 19330 Exp 11/13/21
Simulator S/N DR4177 Date Calibrated 11/17/20

Functional Tests (attached)

- Incomplete Invalid
- Interference
- i. Acetone - Mnf Autm Lot 19301 Level 0.100 Exp 10/30/2021
Simulator S/N DR4178 Date Calibrated 11/18/20
 - ii. Isopropanol - Mnf Autm Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N DR4176 Date Calibrated 11/18/20
 - iii. Negative Control - Mnf Autm 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 07/15/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/14/2021
Time: 09:41:07

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 42.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.79 V PASSED
(1.07 V - 2.51 V)
Cooler Voltage = 1.79 V PASSED
(1.07 V - 2.51 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 = 5.008 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.001 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 = 0.085 0.31% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100406

Date: 07/14/2021
Time: 9:52 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 42.8°C

Current Barometer 29.8 in
Volume (Ltr) 1.55 ✓

Settings
Lamp: 1.74 V
Bias: 80 V
Cooler: 1.74 V
Chopper: 524 Hz

Voltages (V)
Flow: 1.06 V
Detector: 0.056 V ✓

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 06/14/2021
Time: 06:49:18

OPERATOR NAME:
INTOX I METERS
CERTIFICATE #: TEST

Ca = 0.1000
CAL = 0.983721 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0062 0.0010 <= b2 < 0.0100
b3 = 0.0009 0.0000 <= b3 < 0.0040
Xq = 0.0850 0.0500 <= Xq < 0.2000
a21 = 1.190258 1.050 <= a21 < 1.300
a31 = 0.460872 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/14/2021
Time: 09:53:04

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

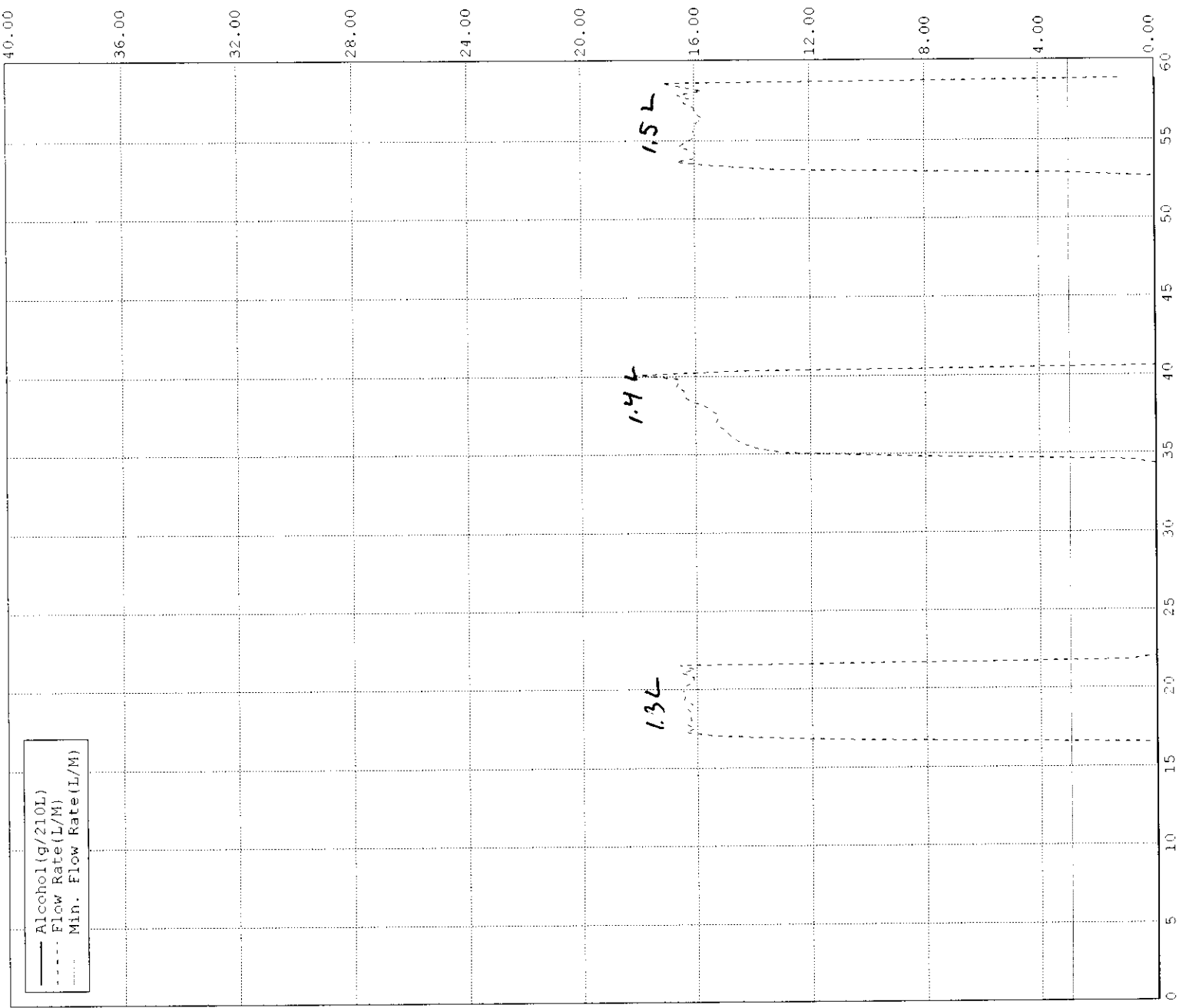
DEPT/AGENCY:
MINIMUM VOLUME
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080

DIAGNOSTIC CHECK	PASSED	09:54
BLANK TEST	0.000	09:54
INTERNAL STANDARD	VERIFIED	09:54
EXTERNAL STANDARD	0.080	09:54
BLANK TEST	0.000	09:55
SUBJECT SAMPLE (Vol=1.55L)	0.000	09:56
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.080	09:57
BLANK TEST	0.000	09:58

Tank lot A6015102

Exp. 06/29/2022
JW 07/14/21



LINEARITY CHECK

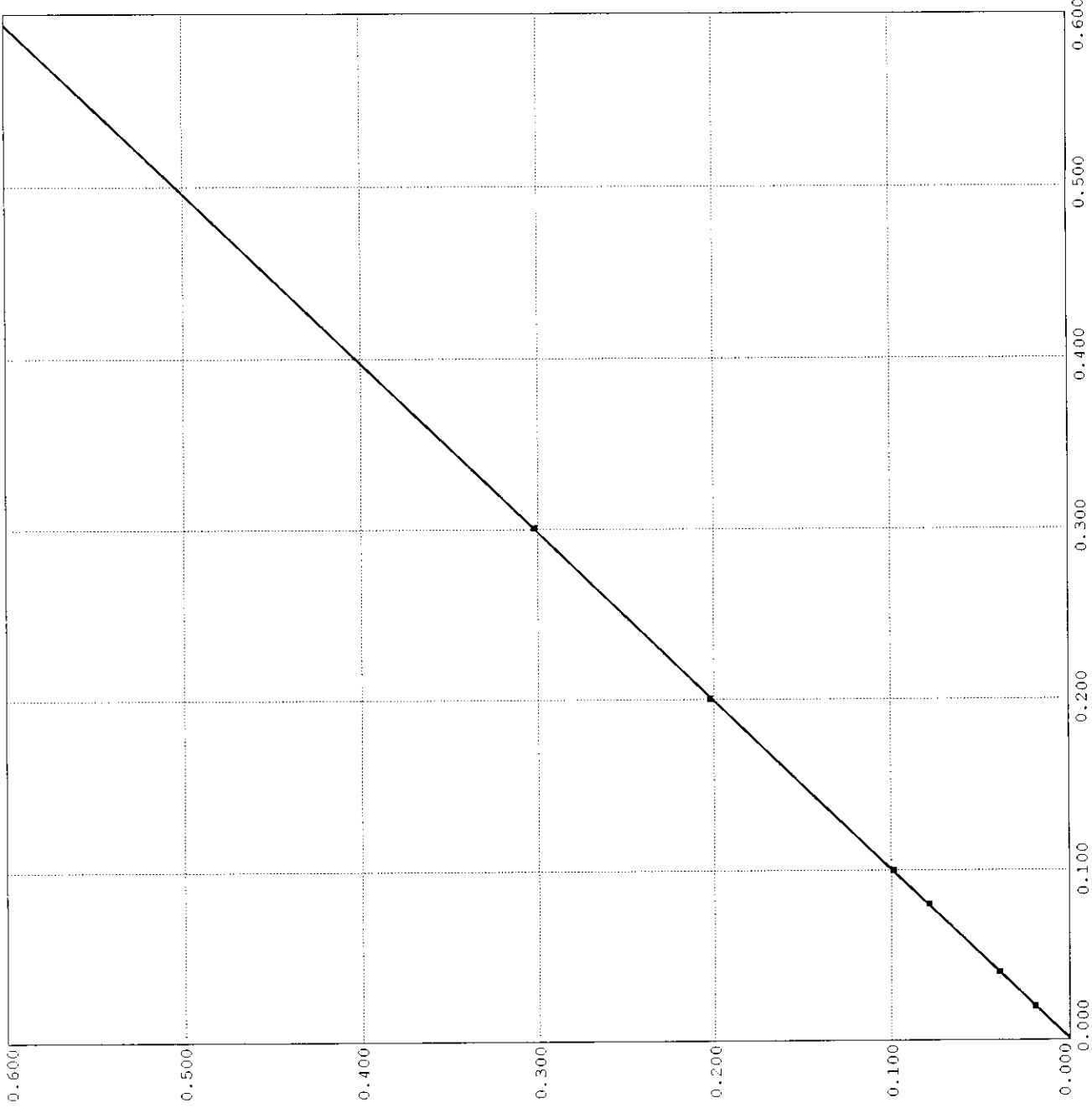
Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/14/2021
Time: 10:01:48

SUPERVISOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0400	0.0000
0.080	0.0796	0.0005
0.100	0.0996	0.0005
0.200	0.2030	0.0000
0.300	0.3026	0.0005

SLOPE = 1.012532
R² = 0.999944



D/W

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100406

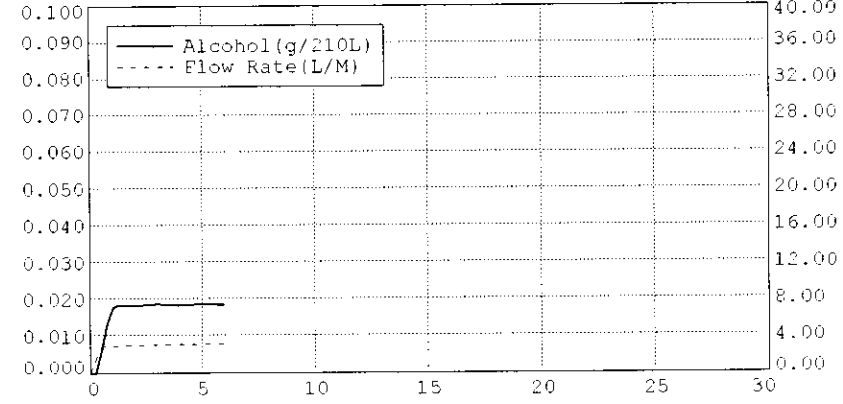
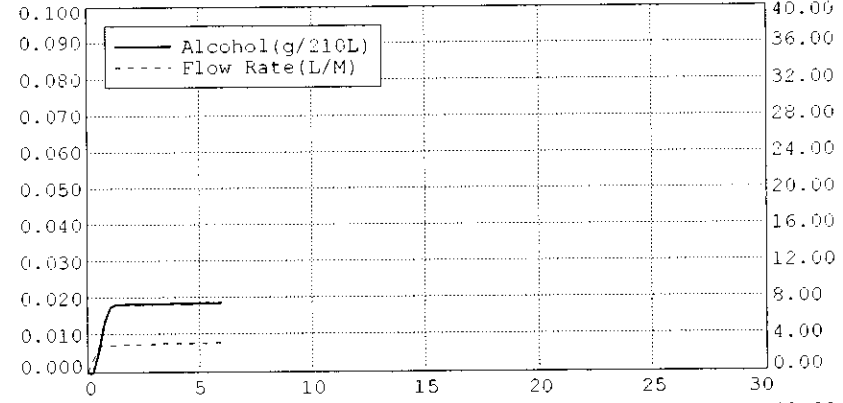
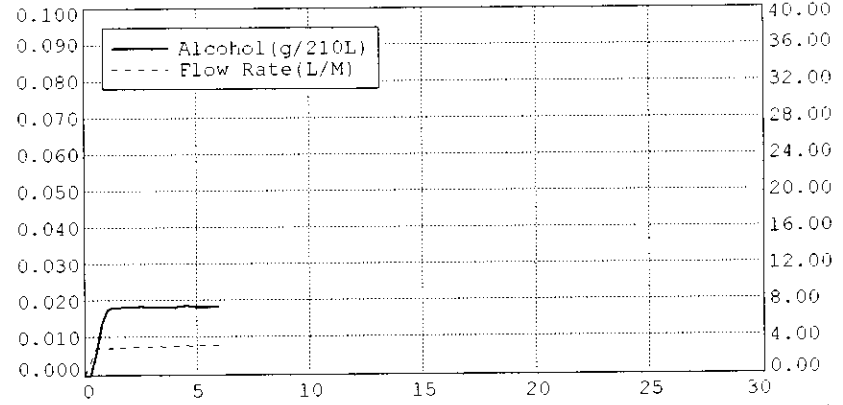
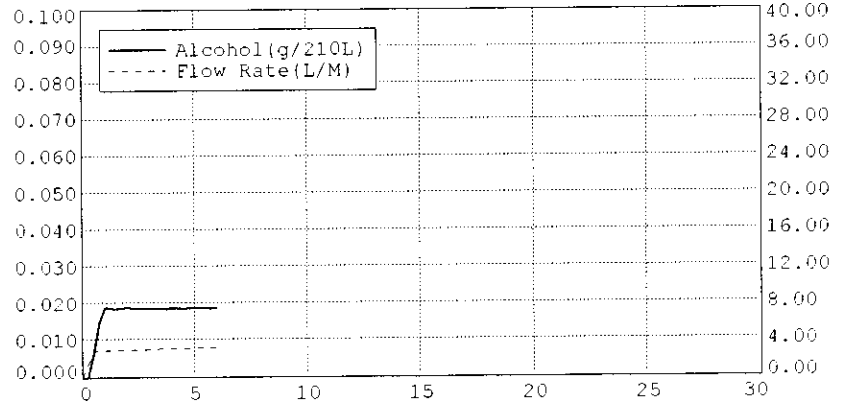
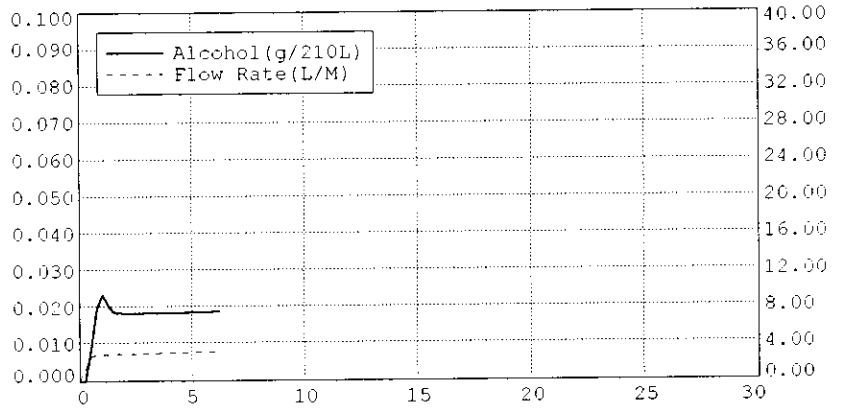
Date: 07/14/2021
Time: 10:01:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.79: 0.020
LOT #: AG928203
EXPIRATION: 10/09/2021
TANK PRESSURE: 251 psi

BLANK TEST	0.000	10:02
INTERNAL STANDARD	VERIFIED	10:03
EXTERNAL STANDARD	0.020	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.020	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.020	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.020	10:06
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.020	10:07
BLANK TEST	0.000	10:08

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100406

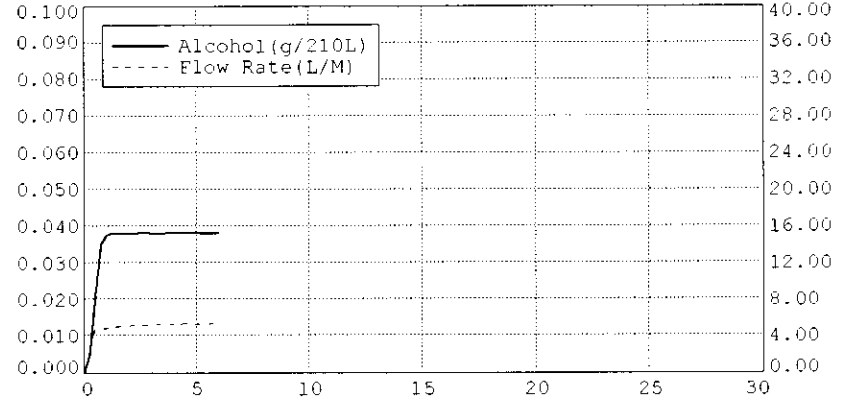
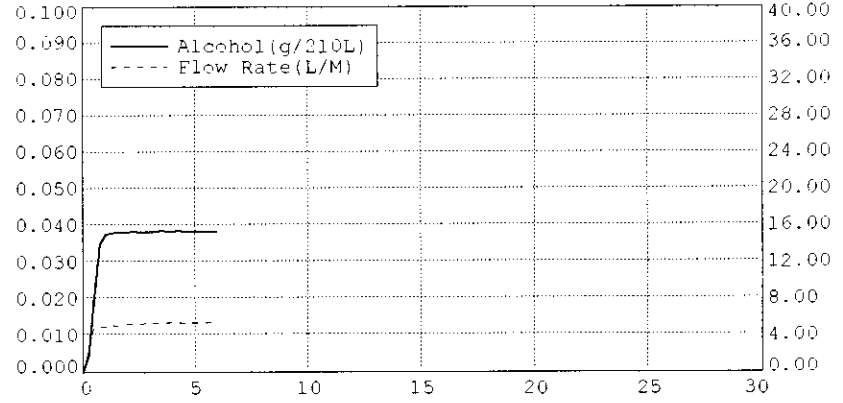
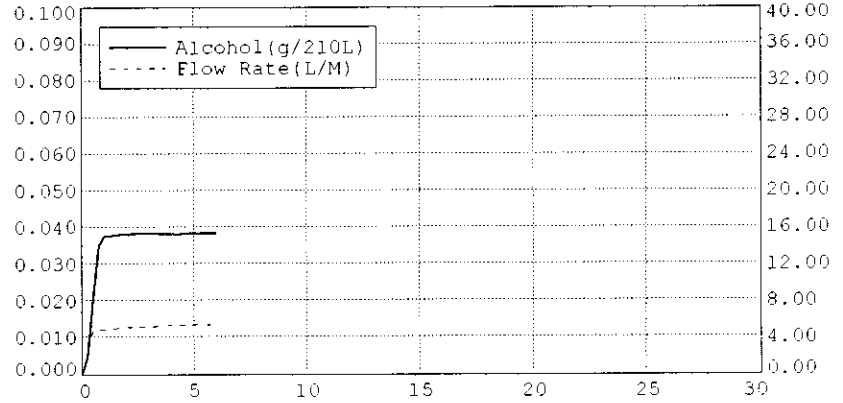
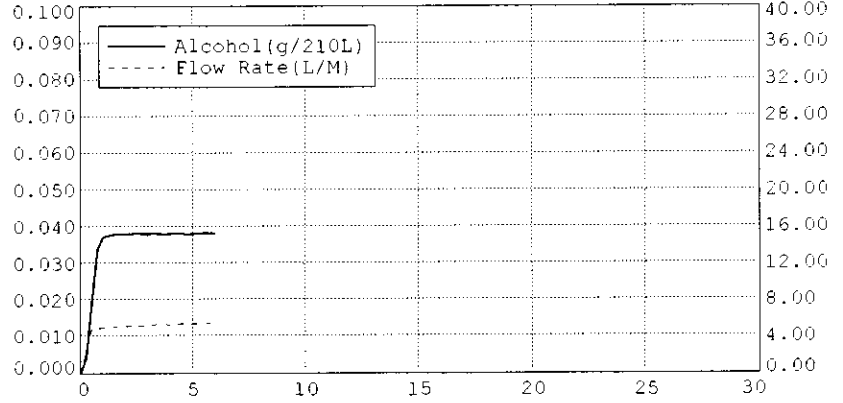
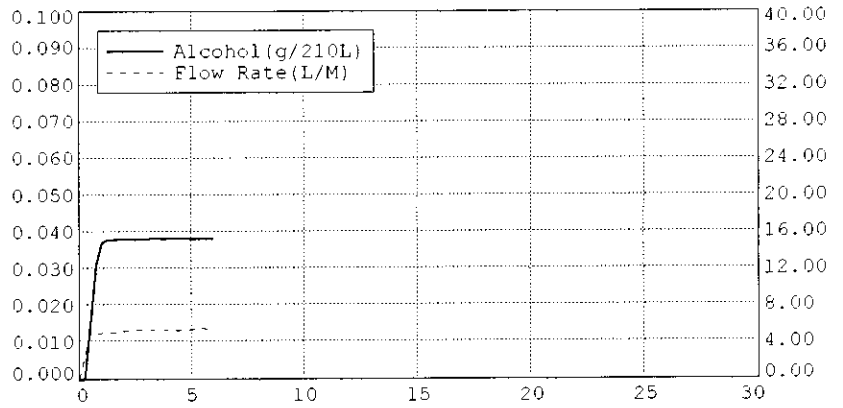
Date: 07/14/2021
Time: 10:13:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.78: 0.040
LOT #: AG111710
EXPIRATION: 04/27/2023
TANK PRESSURE: 1094 psi

BLANK TEST	0.000	10:14
INTERNAL STANDARD	VERIFIED	10:14
EXTERNAL STANDARD	0.040	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.040	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.040	10:17
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.040	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.040	10:19
BLANK TEST	0.000	10:20

Average = 0.0400
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100406

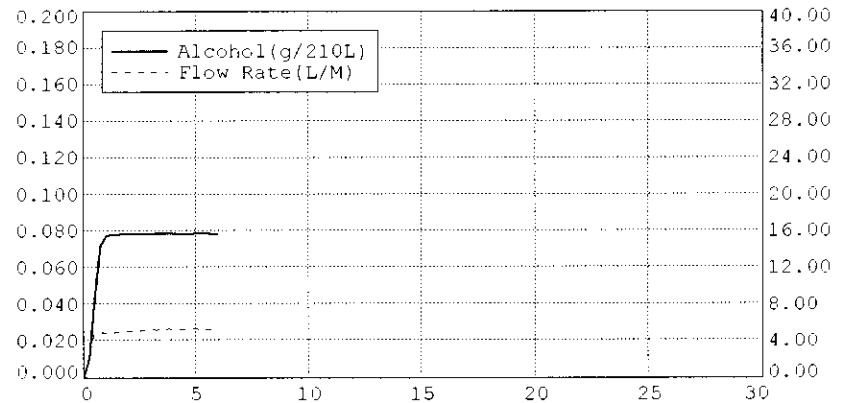
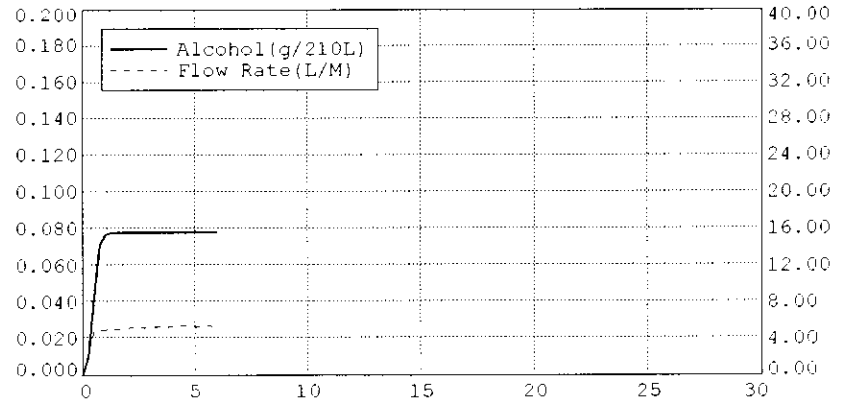
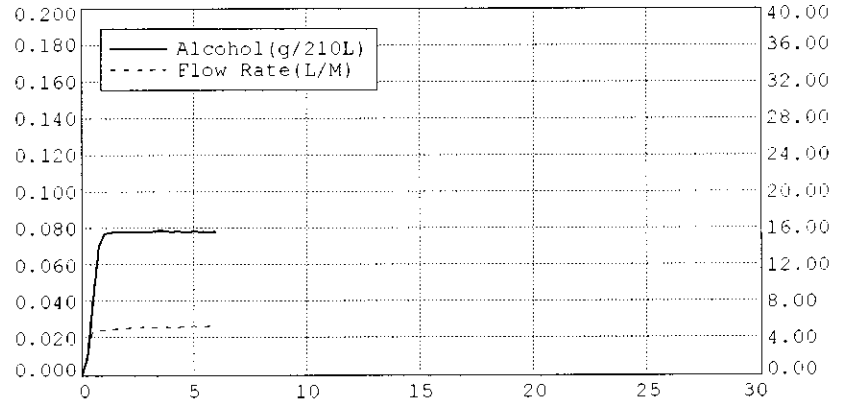
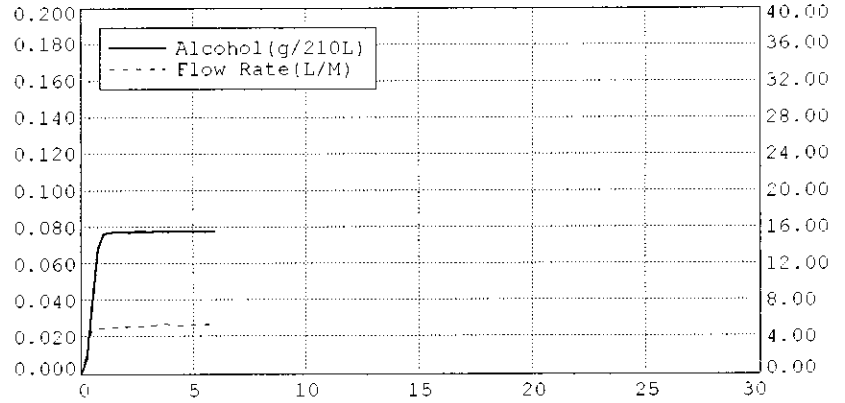
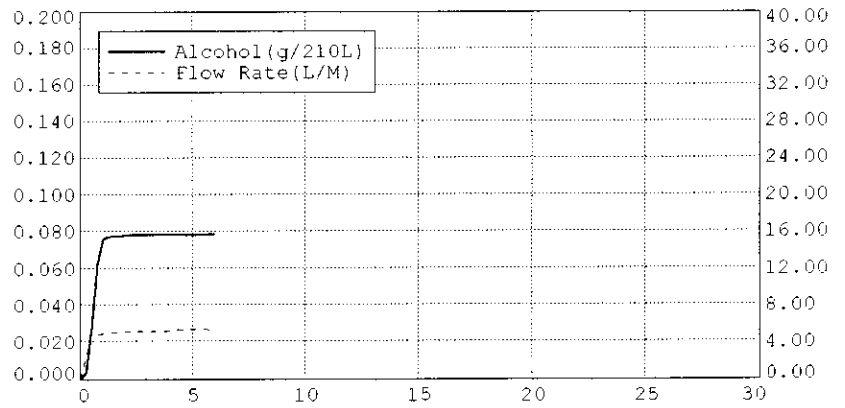
Date: 07/14/2021
 Time: 10:21:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.78: 0.080
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 1133 psi

BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:23
EXTERNAL STANDARD	0.080	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.079	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.080	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.079	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.080	10:27
BLANK TEST	0.000	10:28

Average = 0.0796
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100406

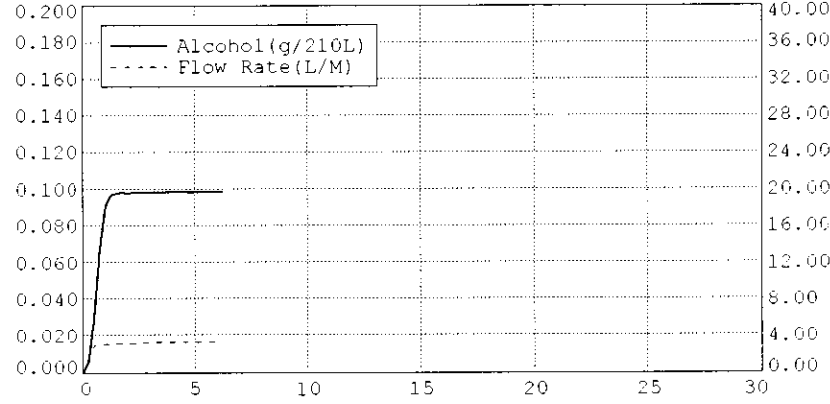
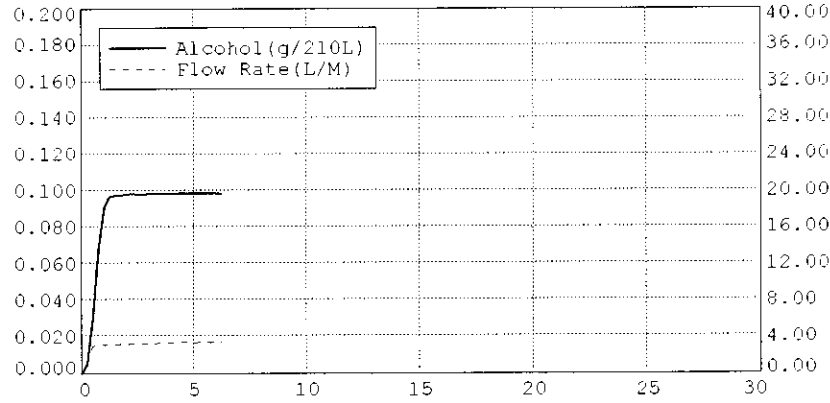
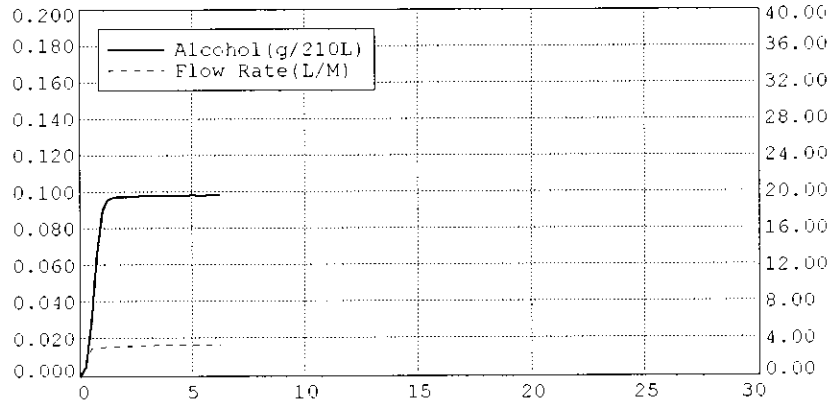
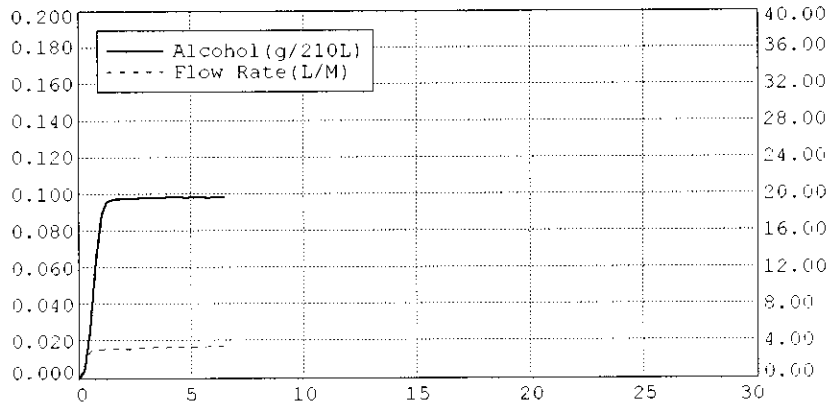
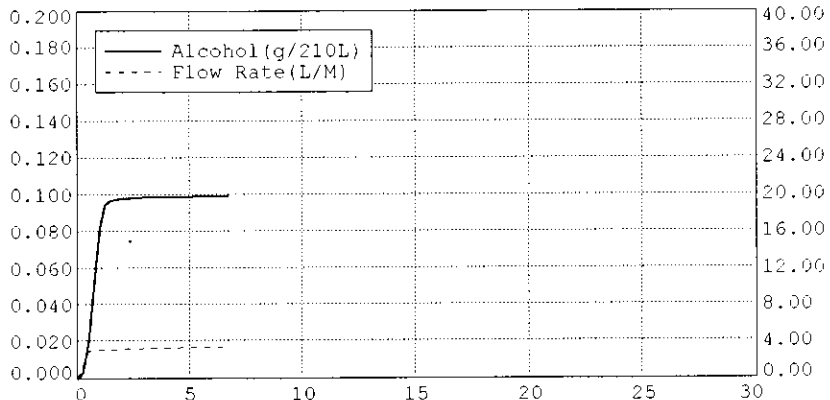
Date: 07/14/2021
 Time: 10:30:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.78: 0.100
 LOT #: AG924701
 EXPIRATION: 09/04/2021
 TANK PRESSURE: 289 psi

BLANK TEST	0.000	10:31
INTERNAL STANDARD	VERIFIED	10:31
EXTERNAL STANDARD	0.100	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.099	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.099	10:33
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.100	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.100	10:36
BLANK TEST	0.000	10:36

Average = 0.0996
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

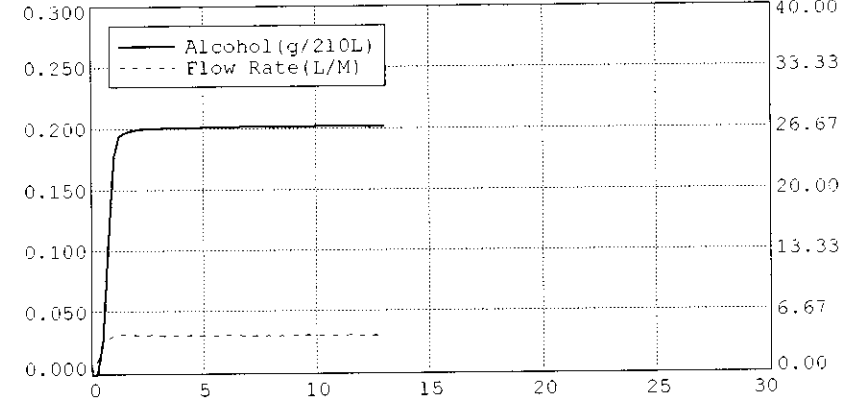
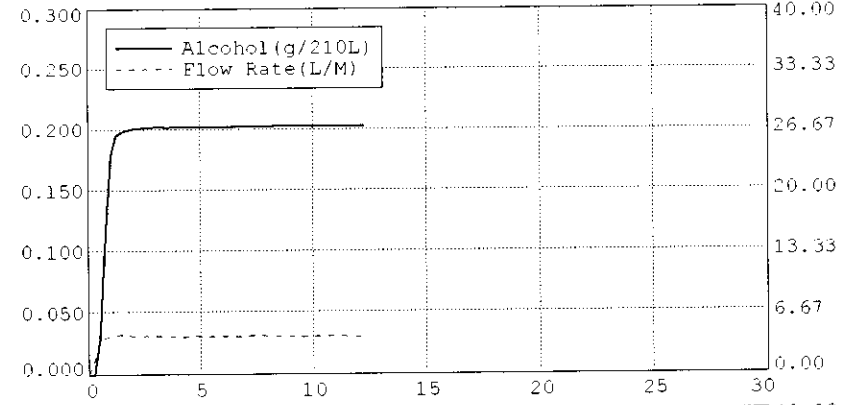
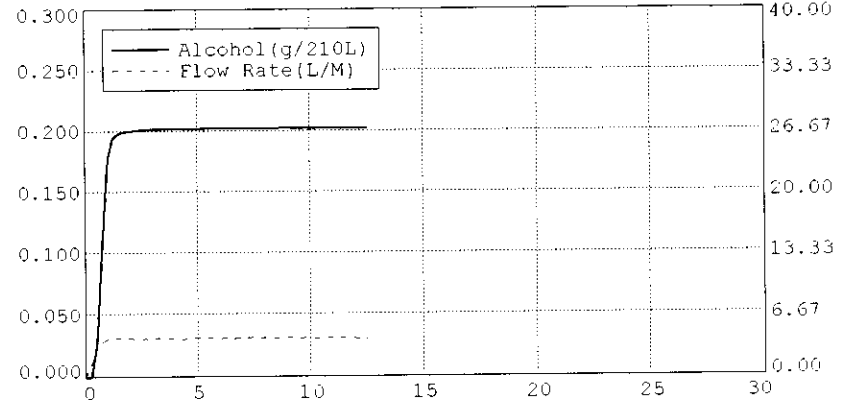
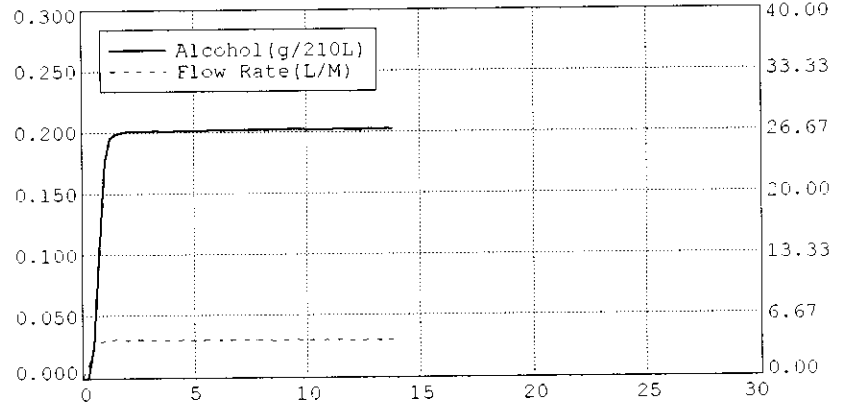
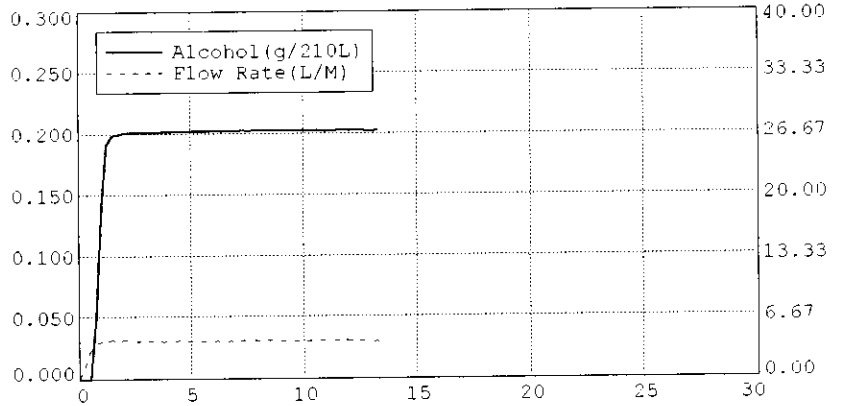
Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/14/2021
Time: 10:44:55

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
LOT #: 19200
EXPIRATION: 08/06/2021

BLANK TEST	0.000	10:51
INTERNAL STANDARD	VERIFIED	10:52
EXTERNAL STANDARD	0.203	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.203	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.203	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.203	10:56
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.203	10:57
BLANK TEST	0.000	10:58

Average = 0.2030
Std Dev = 0.0000



LINEARITY CHECK: Control Test 6

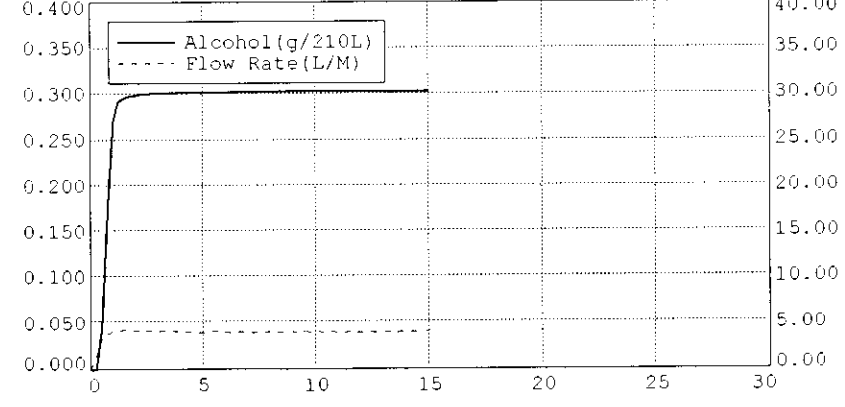
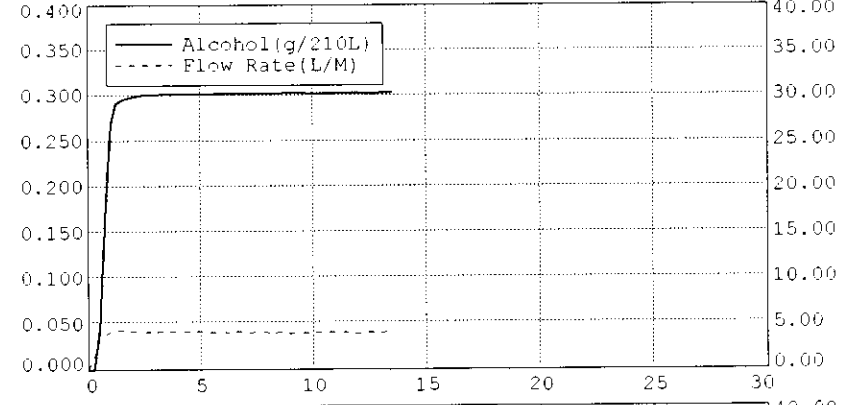
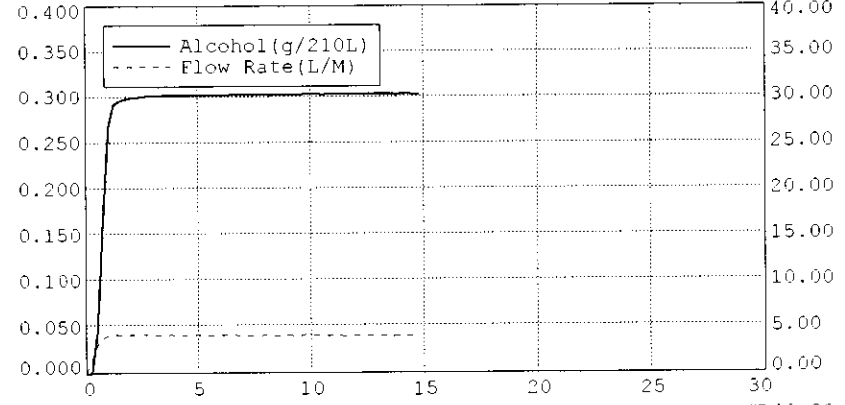
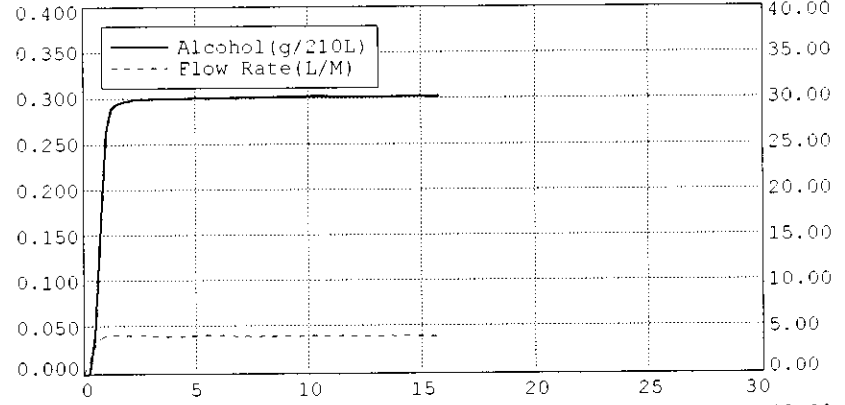
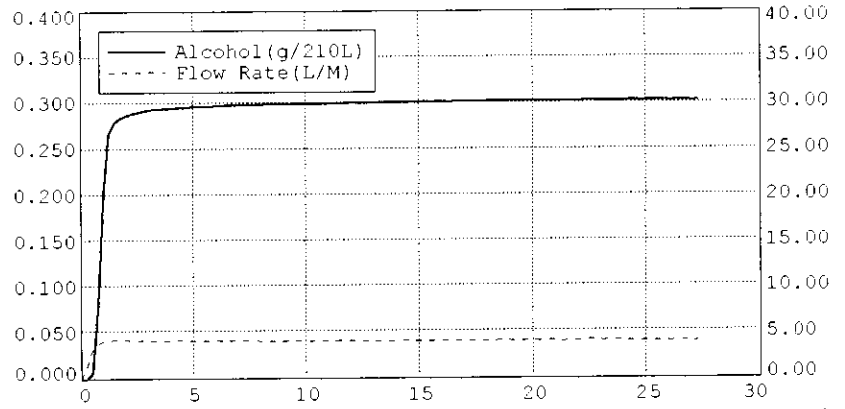
Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/14/2021
Time: 11:03:05

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
LOT #: 19330
EXPIRATION: 11/13/2021

BLANK TEST	0.000	11:04
INTERNAL STANDARD	VERIFIED	11:04
EXTERNAL STANDARD	0.303	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.302	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.303	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.302	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.303	11:09
BLANK TEST	0.000	11:10

Average = 0.3026
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/14/2021
Time: 11:16:48

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

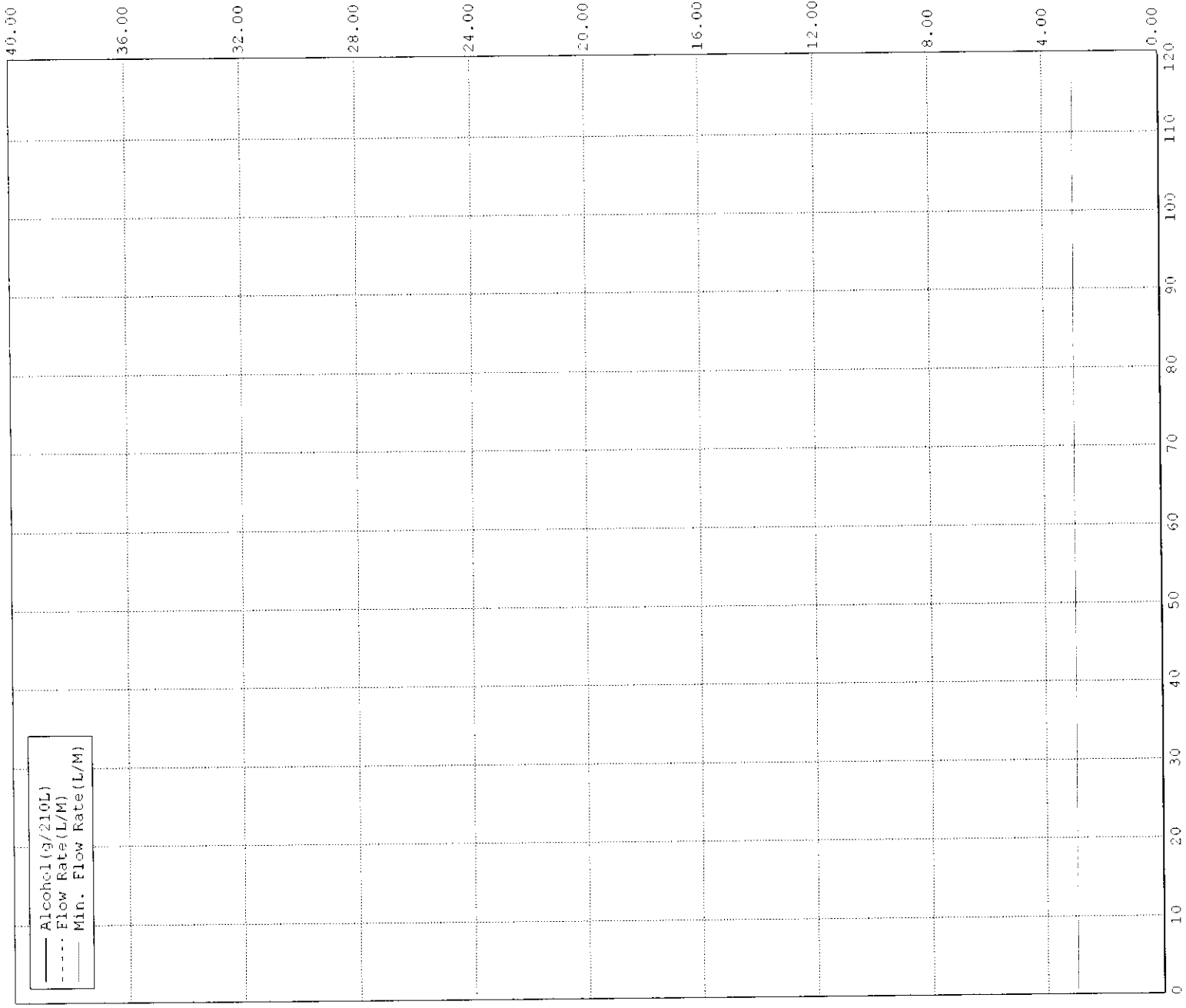
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

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

DIAGNOSTIC CHECK PASSED 11:17
BLANK TEST 0.000 11:17
INTERNAL STANDARD VERIFIED 11:18
EXTERNAL STANDARD 0.079 11:18
BLANK TEST 0.000 11:19
SUBJECT SAMPLE INCOMPLETE 11:21

DM



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100406

Date: 07/15/2021

Time: 10:39:45

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

INTERNAL STANDARD

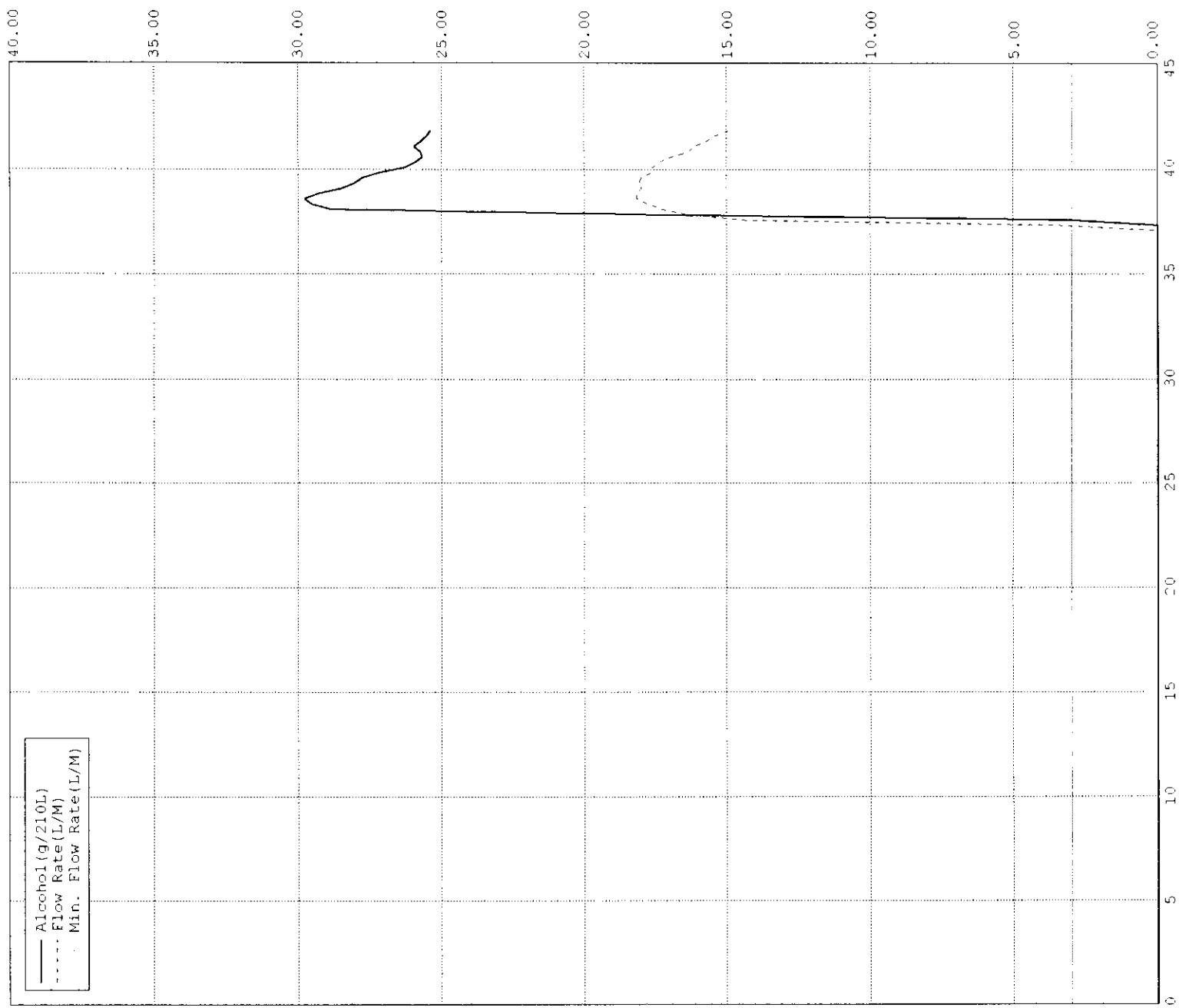
EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 10:42
0.000 10:42
VERIFIED 10:42
0.080 10:42
0.000 10:43
INVALID 10:44

DWC



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/15/2021
Time: 10:09:29

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 29.77: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 10:10
BLANK TEST 0.000 10:10
INTERNAL STANDARD VERIFIED 10:10
Xq = 0.085 (0.20%)
EXTERNAL STANDARD 0.080 10:11
X[1] = 0.0796 (-0.0005) (0.0010)
BLANK TEST 0.000 10:12
SUBJECT SAMPLE XXX 10:12
X[1] = 0.1089 (-0.0179) (-0.0005)

Interference Detected

Filter 2 average: -0.0004

Filter 3 average: 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/15/2021
Time: 10:30:49

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

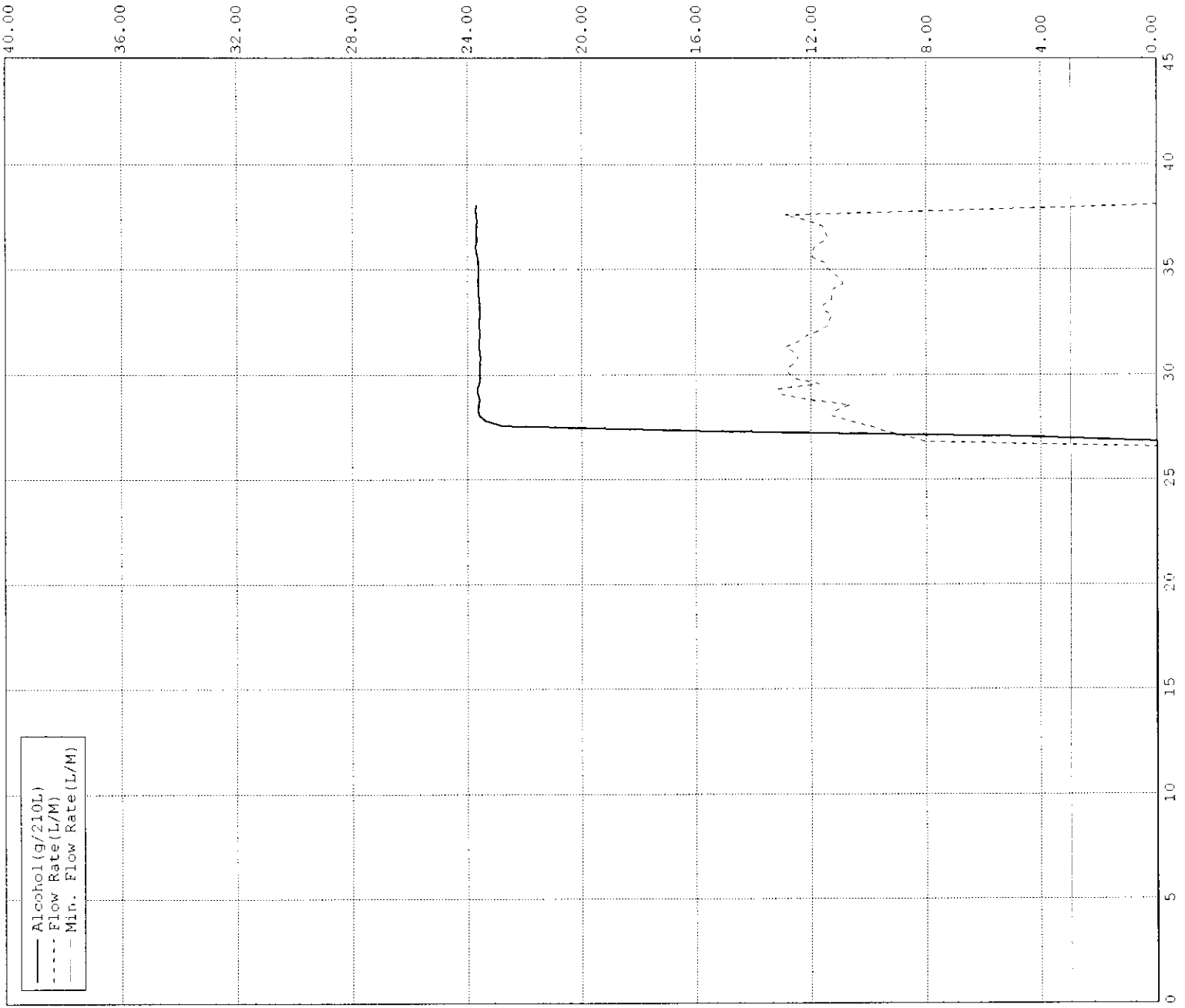
DEPT/AGENCY:
INTERFERENCE ISOPROPANOL
CASE/REPORT: XXXX
TEST TYPE: TEST

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

DIAGNOSTIC CHECK PASSED 10:31
BLANK TEST 0.000 10:31
INTERNAL STANDARD VERIFIED 10:32
Xq = 0.085 (0.41%)
EXTERNAL STANDARD 0.080 10:32
X[1] = 0.0801 (0.0000) (0.0013)
BLANK TEST 0.000 10:33
SUBJECT SAMPLE XXX 10:33
X[1] = 0.1186 (-0.0295) (0.0016)

Interference Detected

DW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/15/2021
Time: 10:21:31

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

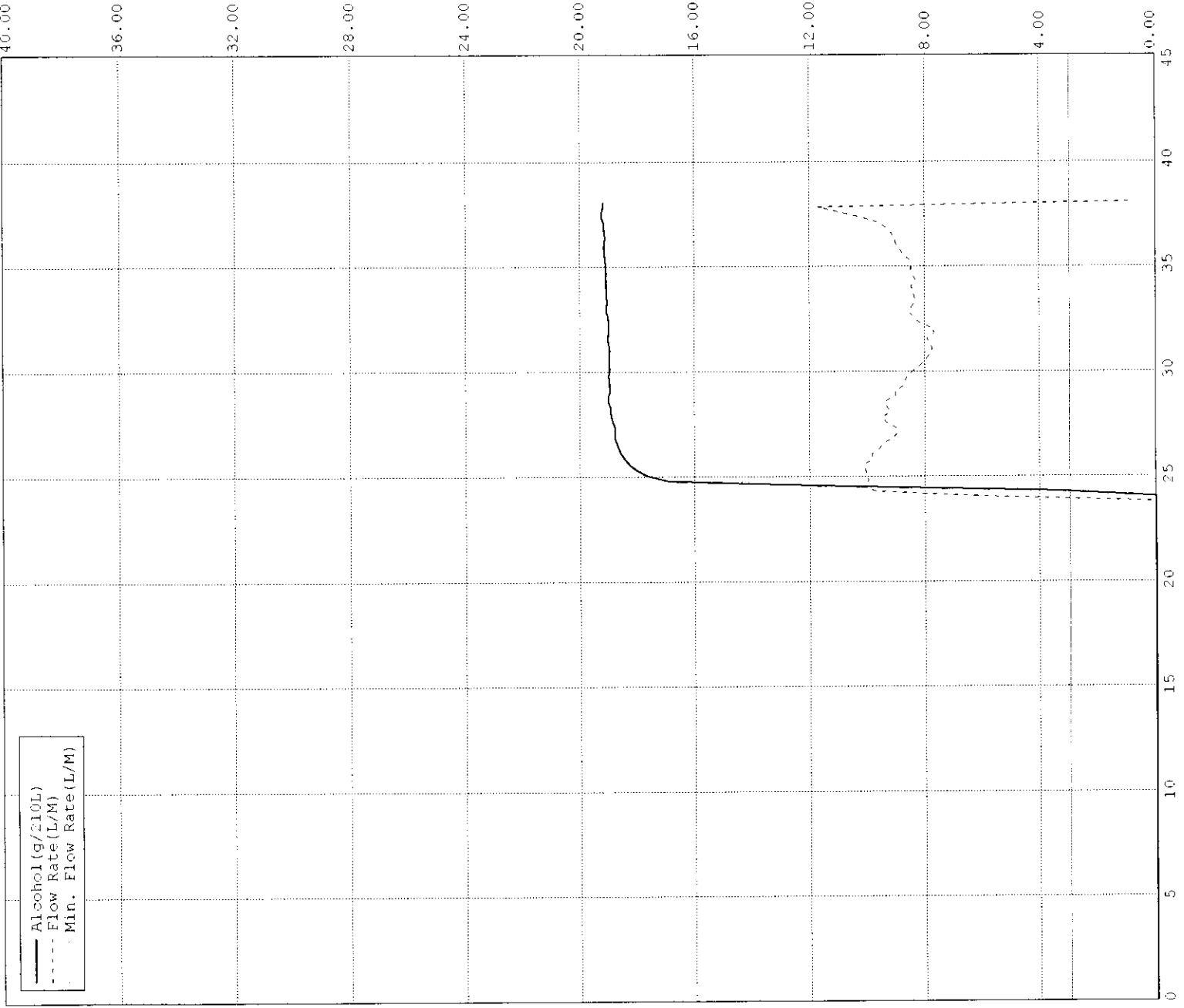
DEPT/AGENCY:
INTERFERENCE NEGATIVE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK	PASSED	10:23
BLANK TEST	0.000	10:23
INTERNAL STANDARD	VERIFIED	10:23
$X_q = 0.085$ (0.10%)		
EXTERNAL STANDARD	0.080	10:23
$X[1] = 0.0796$ (-0.0006)	(0.0010)	
BLANK TEST	0.000	10:24
SUBJECT SAMPLE (Vol=2.09L)	0.096	10:25
$X[1] = 0.0965$ (0.0001)	(0.0001)	
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.079	10:26
$X[1] = 0.0790$ (-0.0006)	(0.0001)	
BLANK TEST	0.000	10:27

DMC



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/14/2021
Time: 11:23:16

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

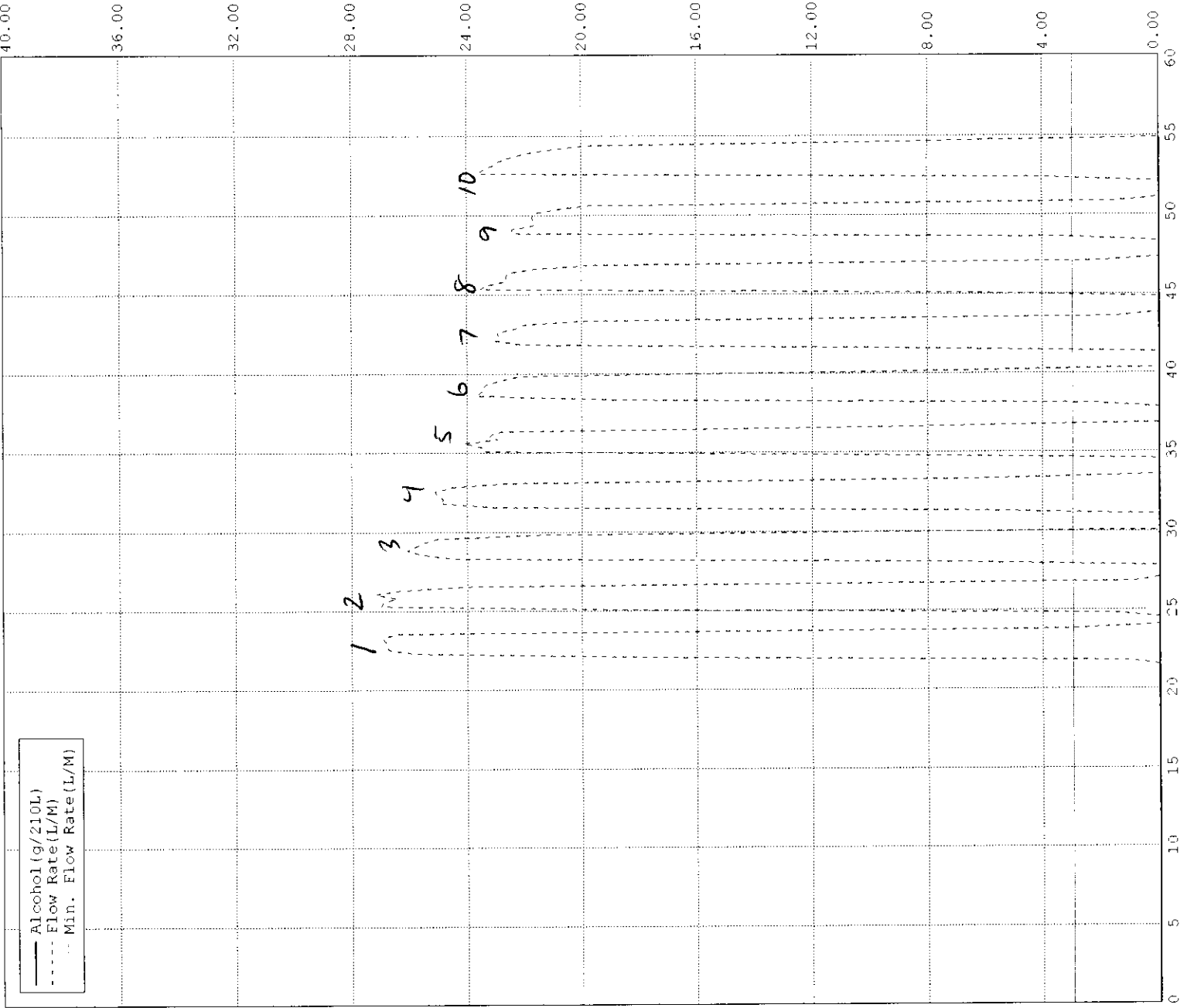
DEPT/AGENCY:
MAXIMUM ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

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

DIAGNOSTIC CHECK PASSED 11:24
BLANK TEST 0.000 11:25
INTERNAL STANDARD VERIFIED 11:25
EXTERNAL STANDARD 0.080 11:25
BLANK TEST 0.000 11:26
SUBJECT SAMPLE XXX 11:27

Maximum Attempts Exceeded

DMW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/15/2021
Time: 10:47:53

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

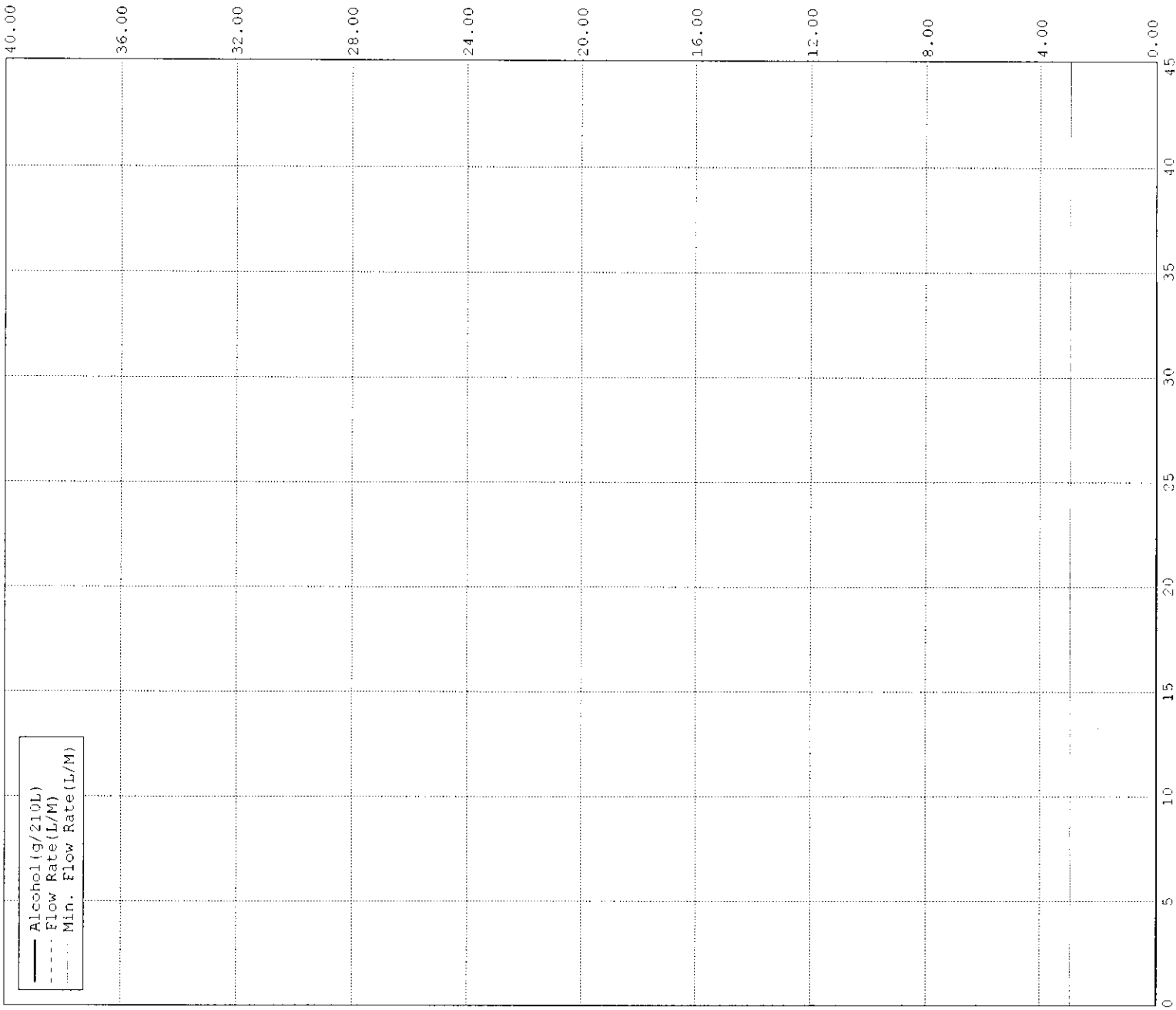
DEPT/AGENCY:
RADIO FREQUENCY
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK PASSED 10:49
BLANK TEST 0.000 10:49
INTERNAL STANDARD VERIFIED 10:49
EXTERNAL STANDARD 0.080 10:49
BLANK TEST 0.000 10:50

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 07/15/2021
Time: 11:05:53

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 29.77: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	11:06
BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:07
EXTERNAL STANDARD	0.080	11:07
BLANK TEST	0.000	11:08
SUBJECT SAMPLE (Vol=2.88L)	0.000	11:09
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.080	11:10
BLANK TEST	0.000	11:11

