

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 100691 Analyst Derek Walton Start Date 02/04/2021

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 AL928203 Exp 10/09/21

ii. 0.040g/210L Mnf Airgas Lot AL915607 Exp 06/05/21

iii. 0.080g/210L Mnf Airgas Lot AL018102 Exp 06/29/22

iv. 0.100g/210L Mnf Airgas Lot AL924701 Exp 09/04/21

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

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

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

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

Functional Tests (attached)

Incomplete

Invalid

Interference

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

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

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

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

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

Simulator S/N SD1088 Date Calibrated 05/08/20

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 02/05/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 02/04/2021
Time: 13:18:18

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.83 V PASSED
(1.10 V - 2.56 V)
Cooler Voltage = 1.82 V PASSED
(1.09 V - 2.55 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 524 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.1 in

PUMP INFO

Flow Rate = 5.245 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
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD ✓ PASSED
Xq = 0.100 0.87% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100691

Date: 02/04/2021
Time: 2:05 PM

Temperatures (°C)
Sample Cell: 49.2°C
Breath Tube: 46.0°C

Current Barometer 30.1 in
Volume (Ltr) 1.54 ✓

Settings
Lamp: 1.78 V
Bias: 80 V
Cooler: 1.82 V
Chopper: 526 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.084 V ✓

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 10/05/2020
Time: 09:22:51

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

Ca = 0.0970
CAL = 0.990351 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0053 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.1007 0.0500 <= Xq < 0.2000
a21 = 1.210610 1.050 <= a21 < 1.300
a31 = 0.424863 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 02/04/2021
Time: 14:07:33

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

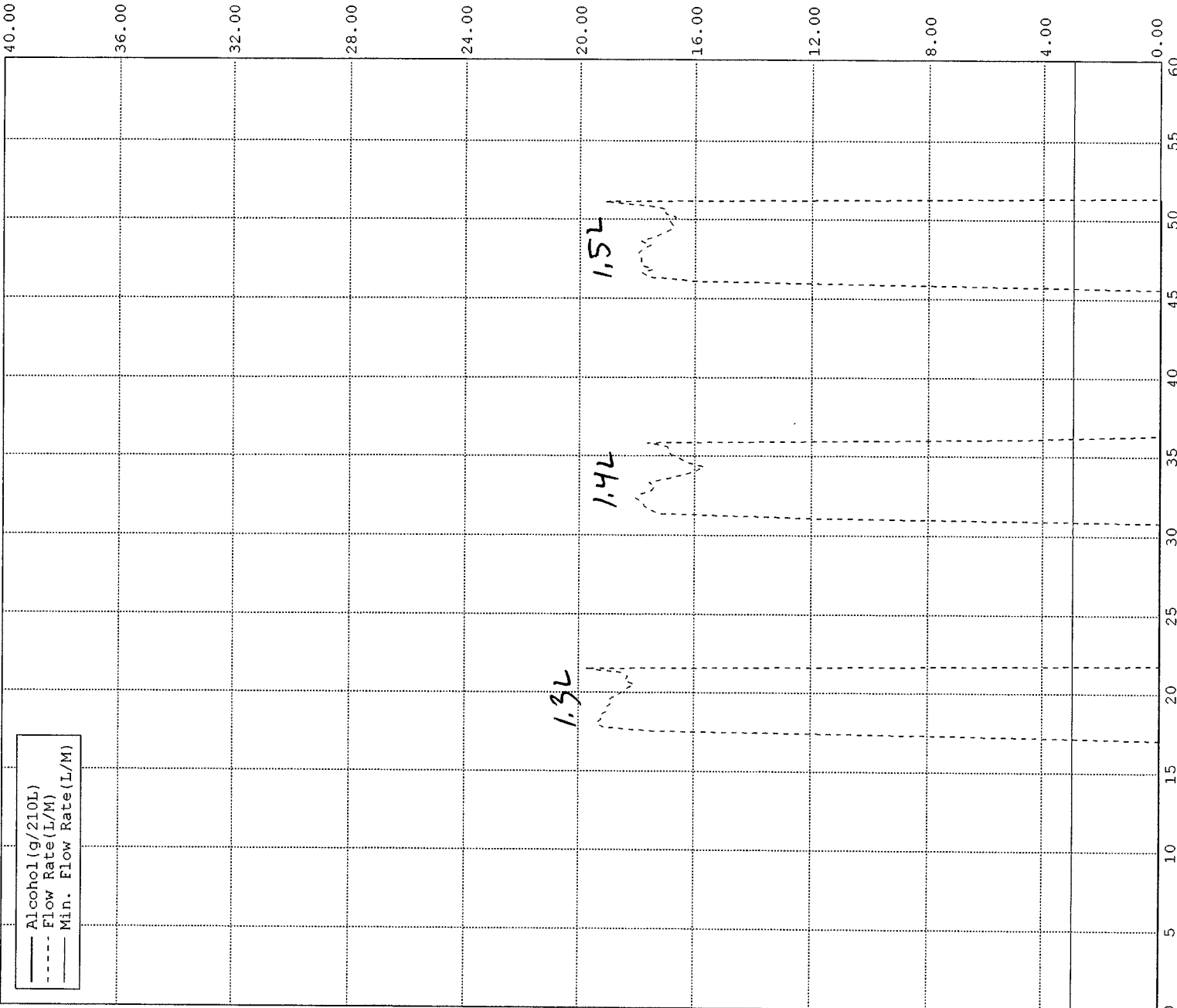
DEPT/AGENCY:
MINIMUM VOLUME
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.10: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:08
BLANK TEST	0.000	14:08
INTERNAL STANDARD	VERIFIED	14:08
INTERNAL STANDARD	0.081	14:09
BLANK TEST	0.000	14:09
SUBJECT SAMPLE (Vol=1.56L)	0.000	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.081	14:11
BLANK TEST	0.000	14:12

DW



LINEARITY CHECK

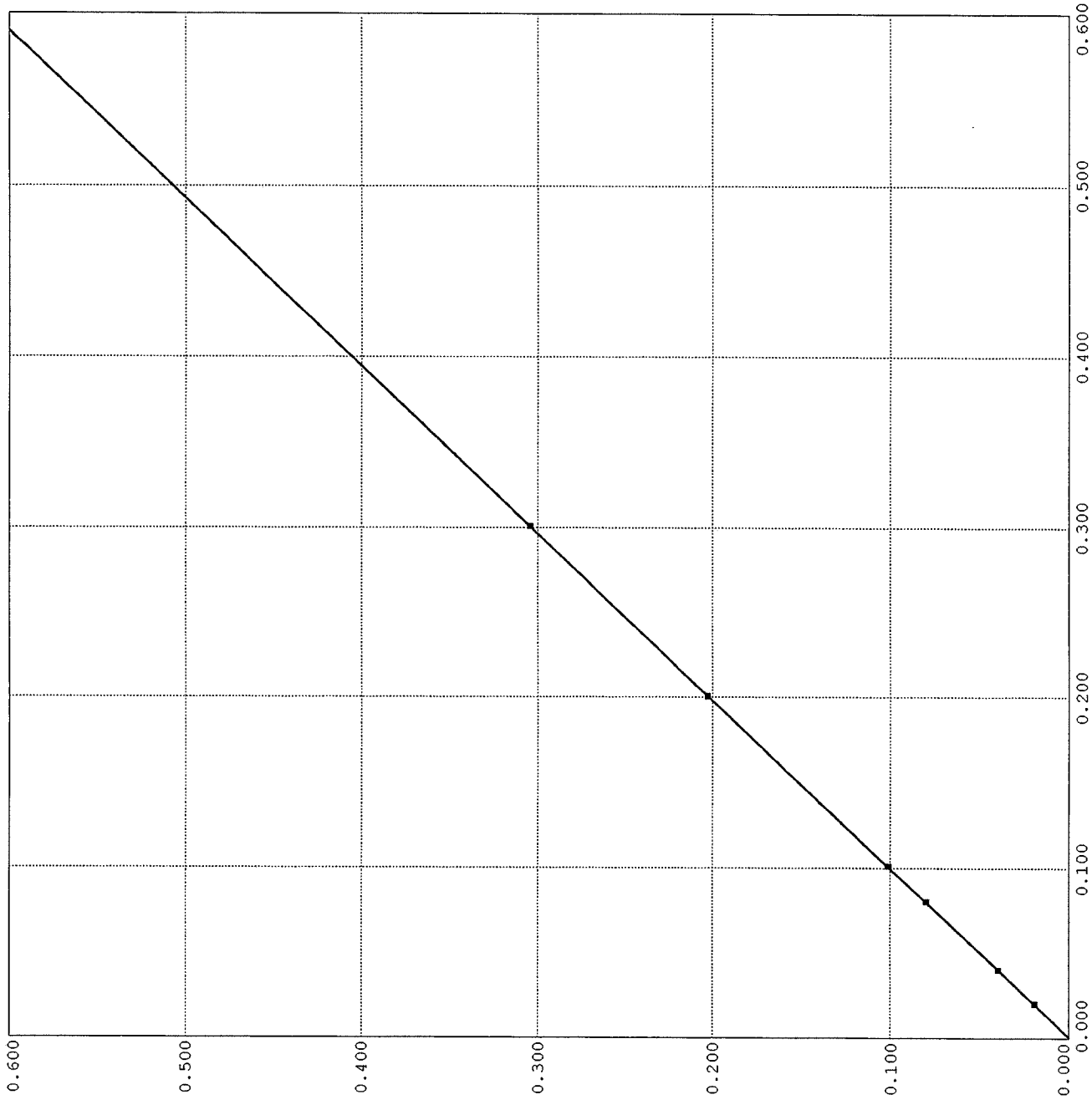
 Alaska Department of Public Safety
 DATAMASTER dmt: 100691

Date: 02/04/2021
 Time: 14:18:21

SUPERVISOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0408	0.0004
0.080	0.0810	0.0000
0.101	0.1020	0.0000
0.200	0.2036	0.0005
0.300	0.3050	0.0012

SLOPE = 1.017957
 R² = 0.999991



DM

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100691

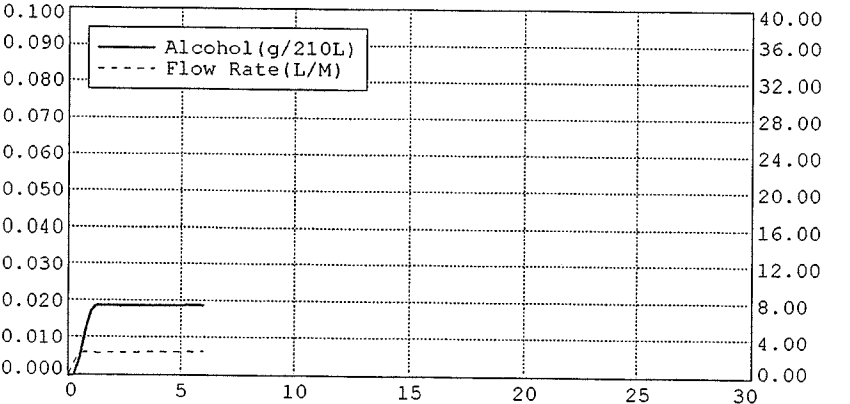
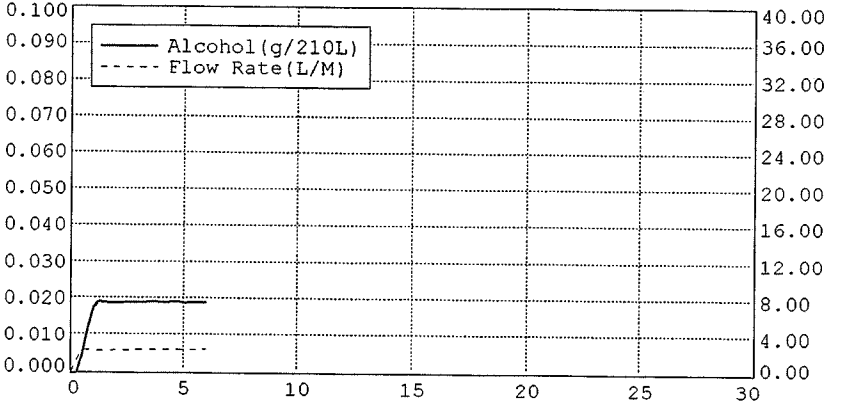
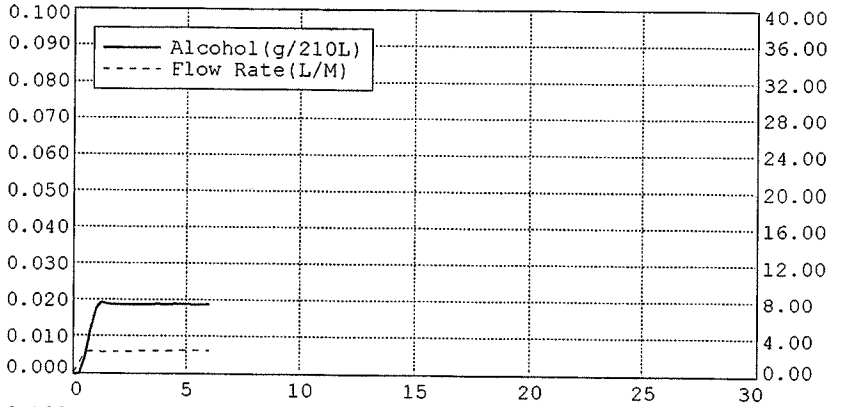
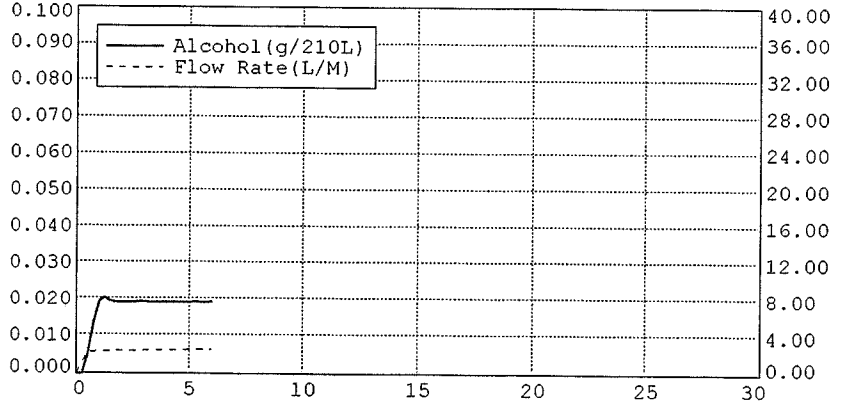
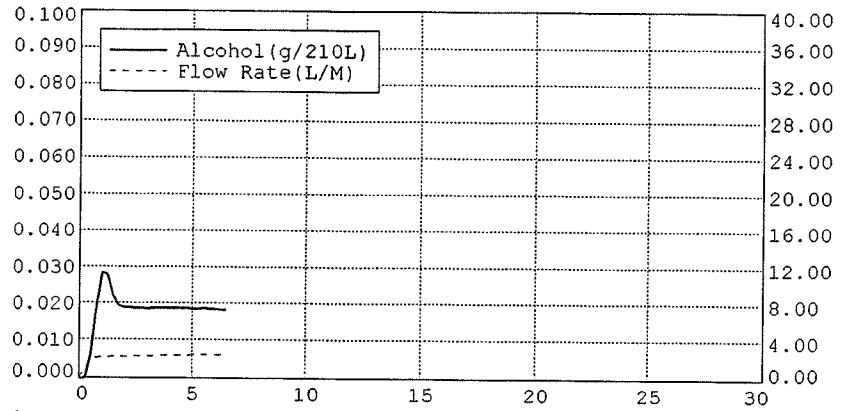
Date: 02/04/2021
 Time: 14:18:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 30.10: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 651 psi

BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:19
EXTERNAL STANDARD	0.020	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.020	14:21
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.020	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.020	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.020	14:24
BLANK TEST	0.000	14:25

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100691

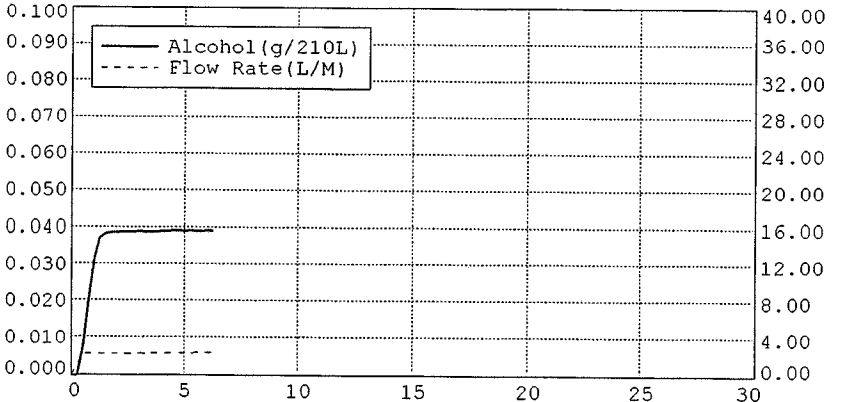
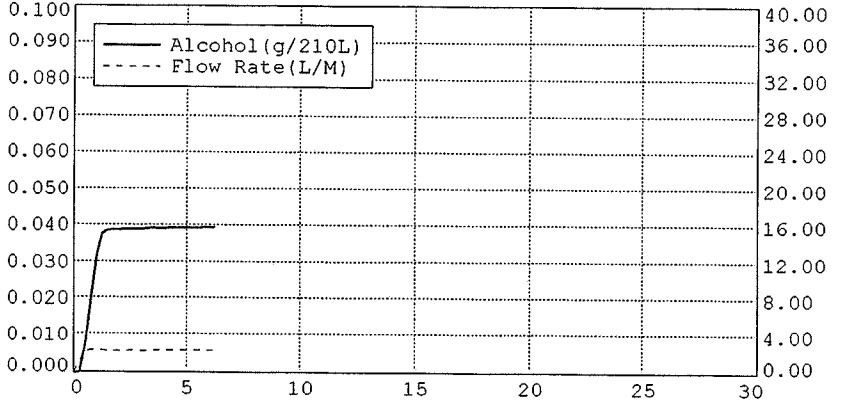
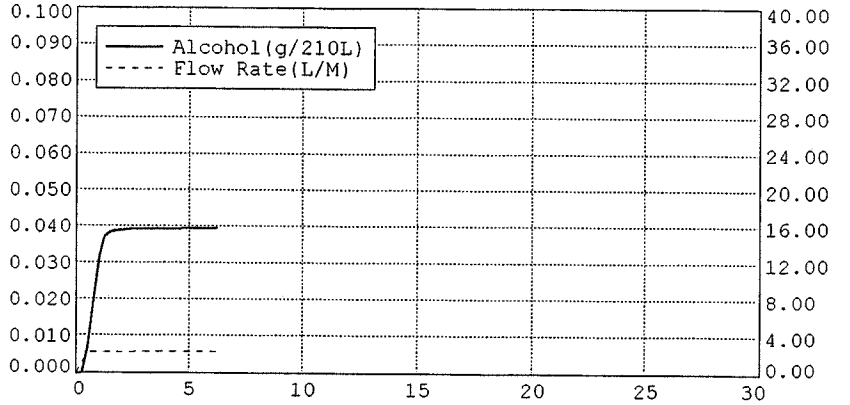
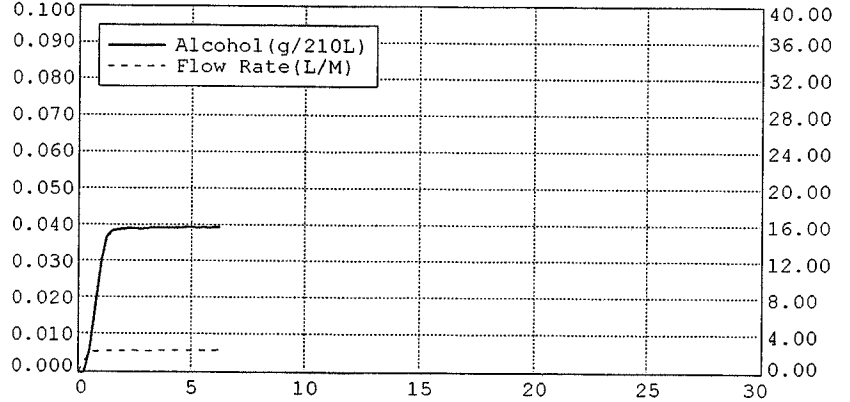
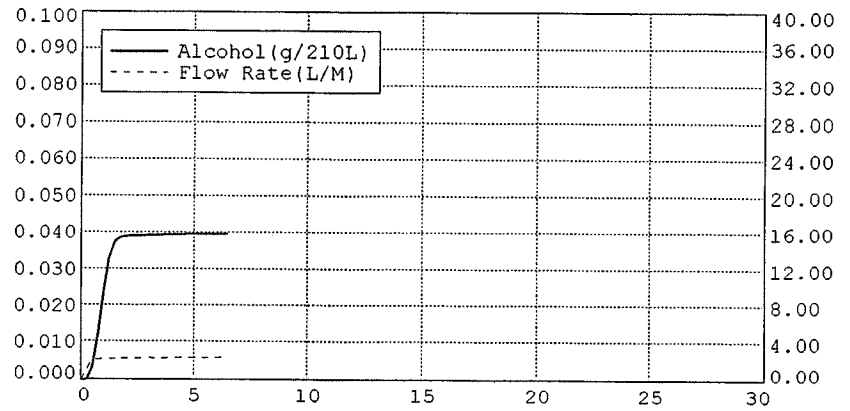
Date: 02/04/2021
 Time: 14:26:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 30.09: 0.040
 LOT #: AG915607
 EXPIRATION: 06/05/2021
 TANK PRESSURE: 427 psi

BLANK TEST	0.000	14:27
INTERNAL STANDARD	VERIFIED	14:28
EXTERNAL STANDARD	0.041	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.041	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.041	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.041	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.040	14:32
BLANK TEST	0.000	14:33

Average = 0.0408
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100691

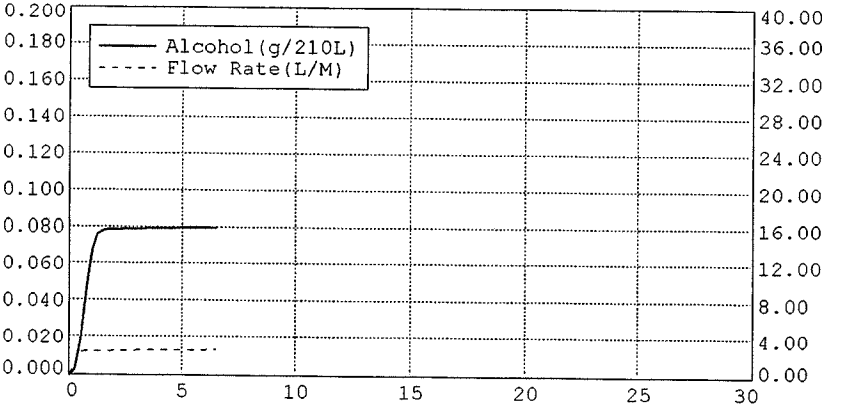
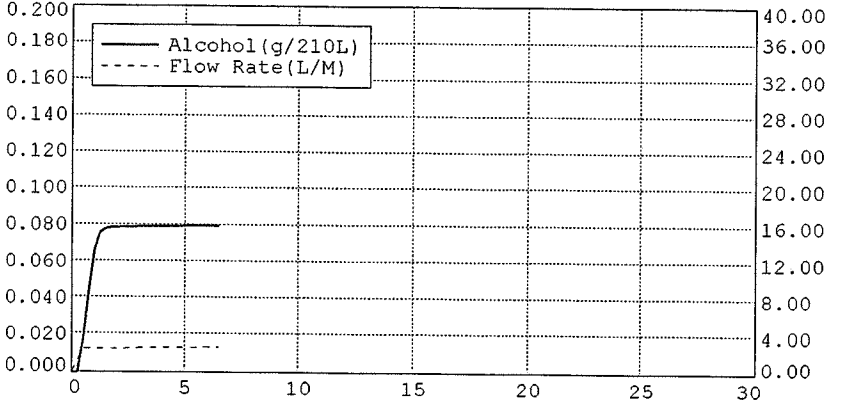
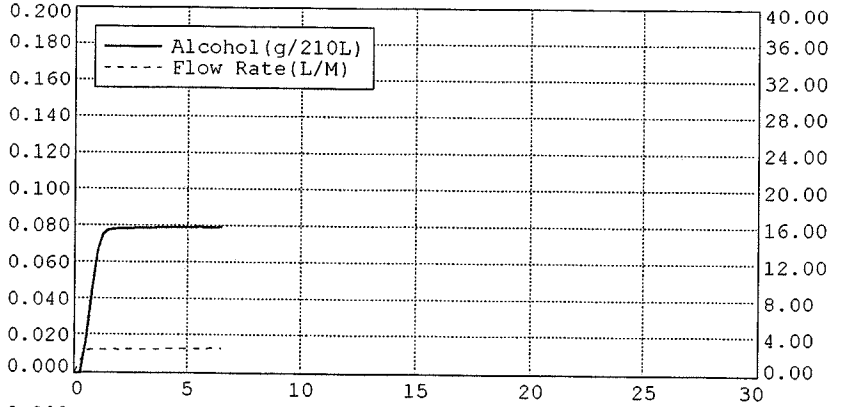
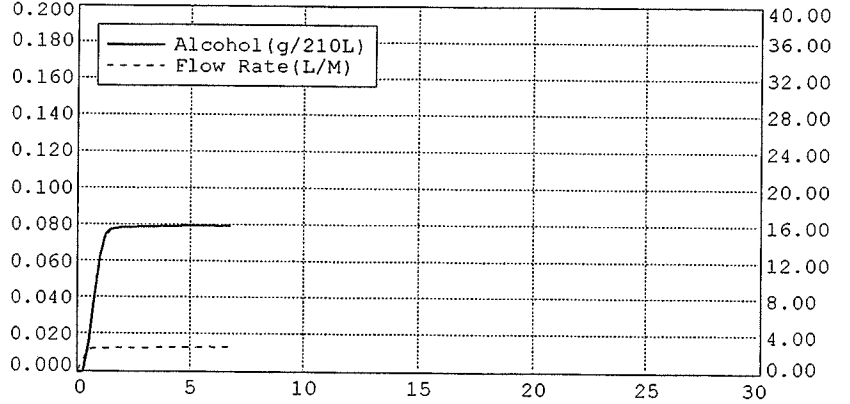
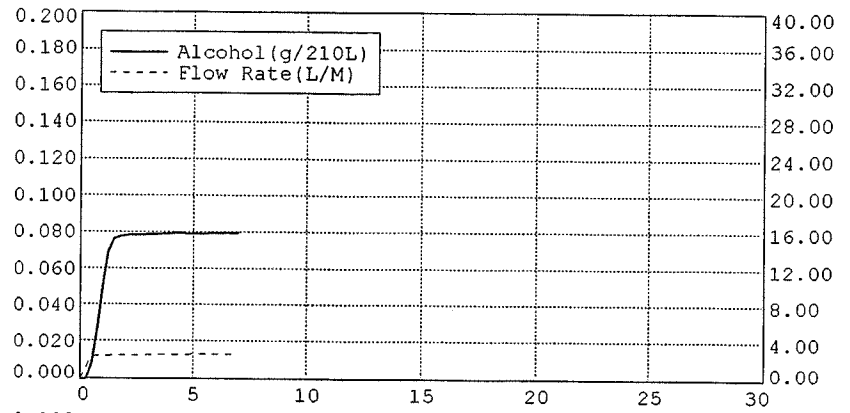
Date: 02/04/2021
 Time: 14:35:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 30.10: 0.080
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 999 psi

BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
EXTERNAL STANDARD	0.081	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.081	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.081	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.081	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.081	14:41
BLANK TEST	0.000	14:42

Average = 0.0810
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100691

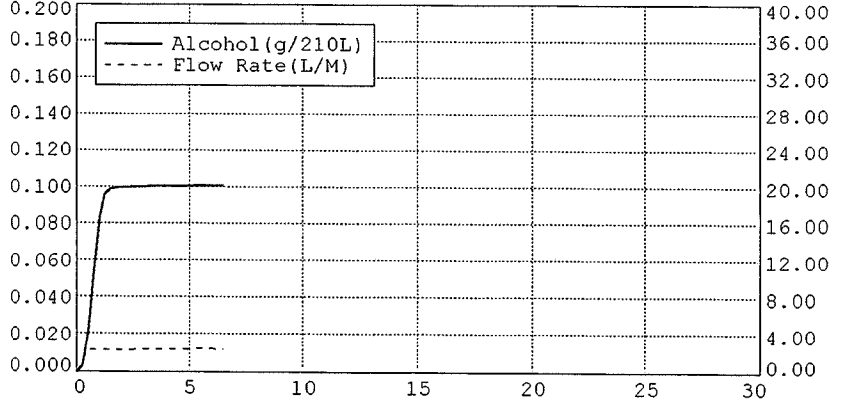
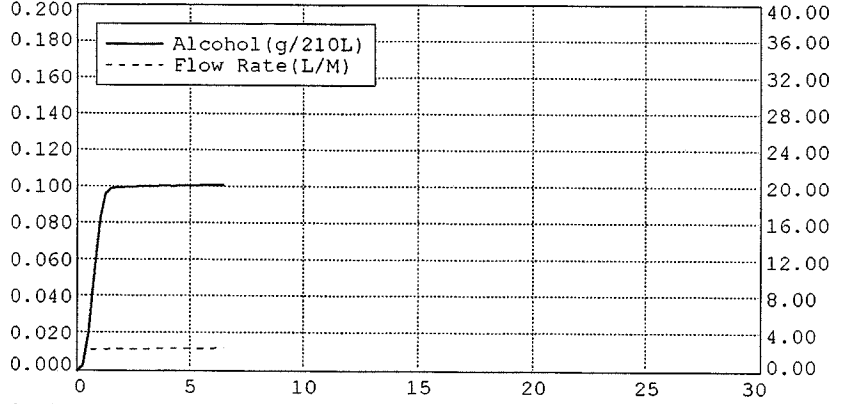
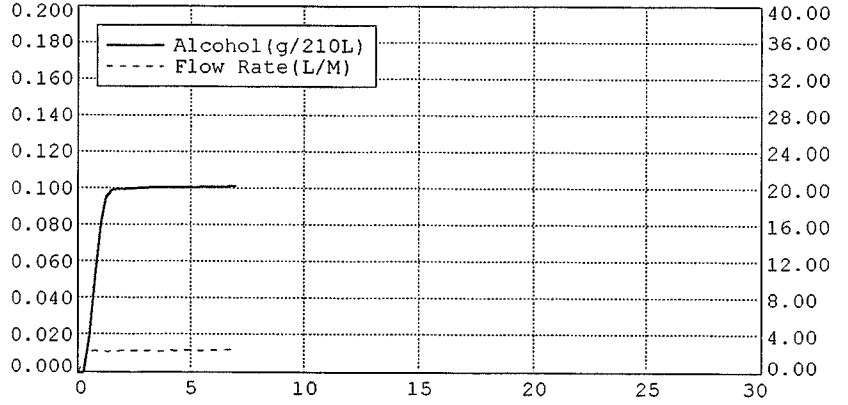
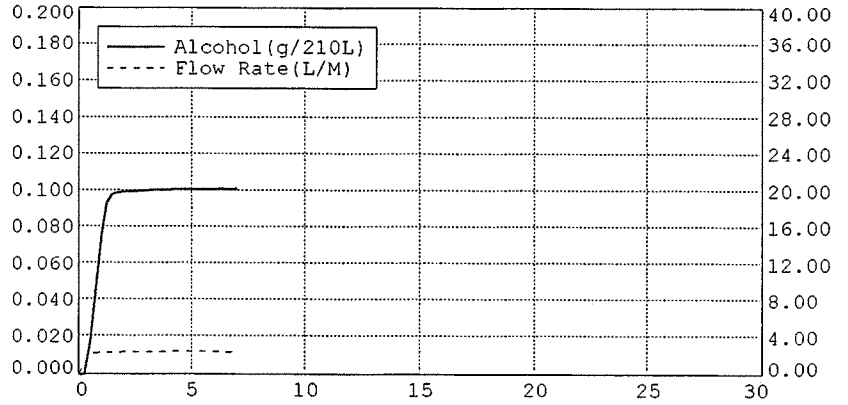
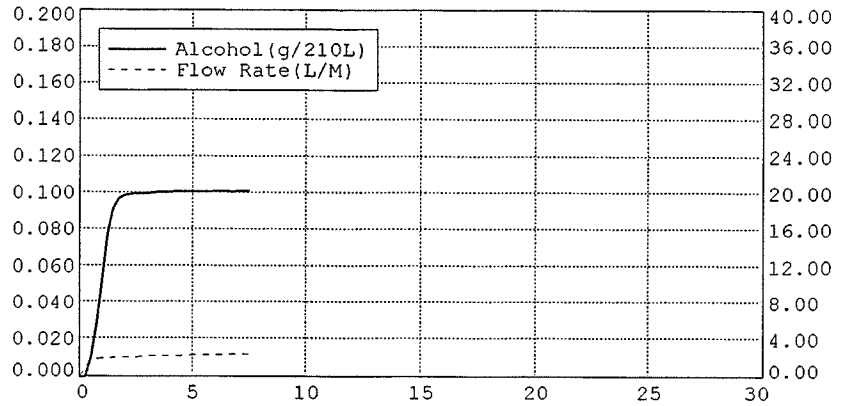
Date: 02/04/2021
 Time: 14:45:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 30.10: 0.101
 LOT #: AG924701
 EXPIRATION: 09/04/2021
 TANK PRESSURE: 724 psi

BLANK TEST	0.000	14:47
INTERNAL STANDARD	VERIFIED	14:47
EXTERNAL STANDARD	0.102	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.102	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.102	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.102	14:51
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.102	14:52
BLANK TEST	0.000	14:53

Average = 0.1020
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100691

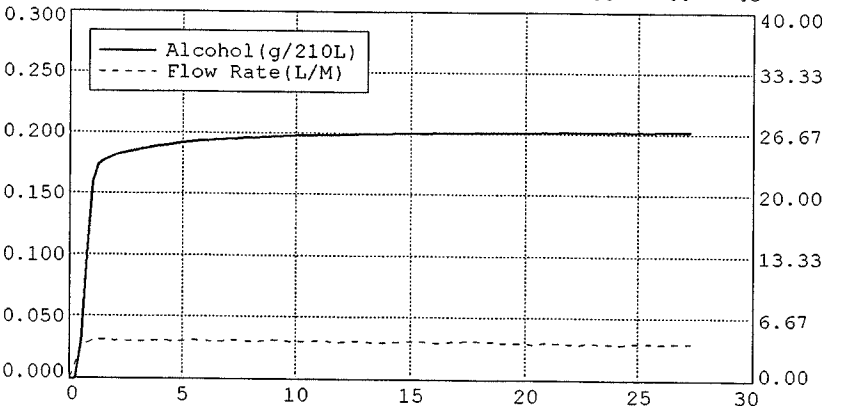
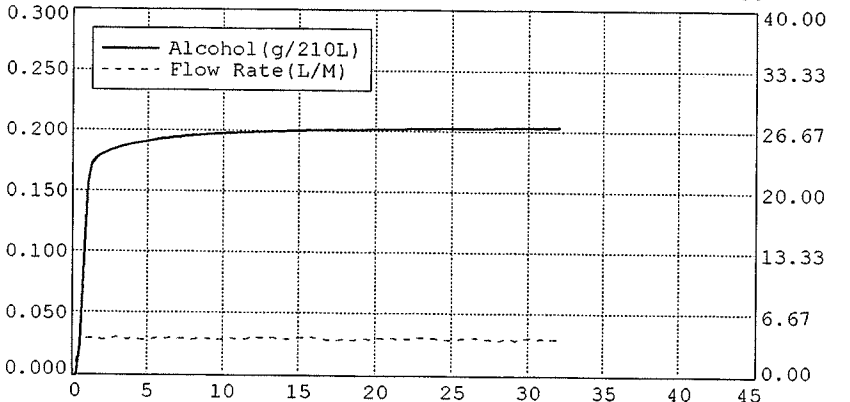
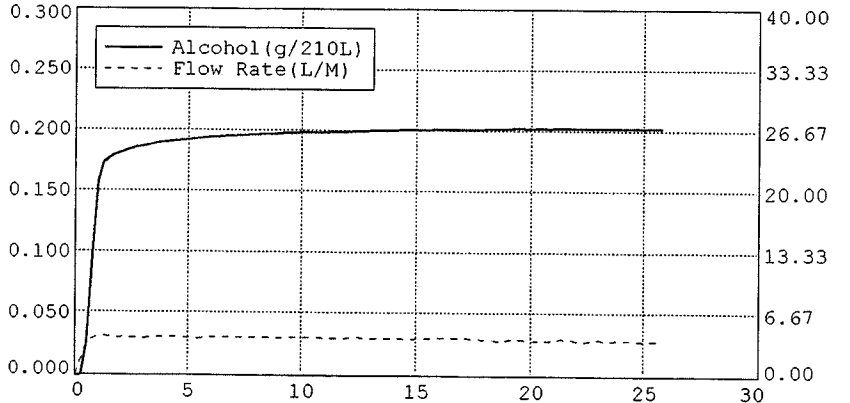
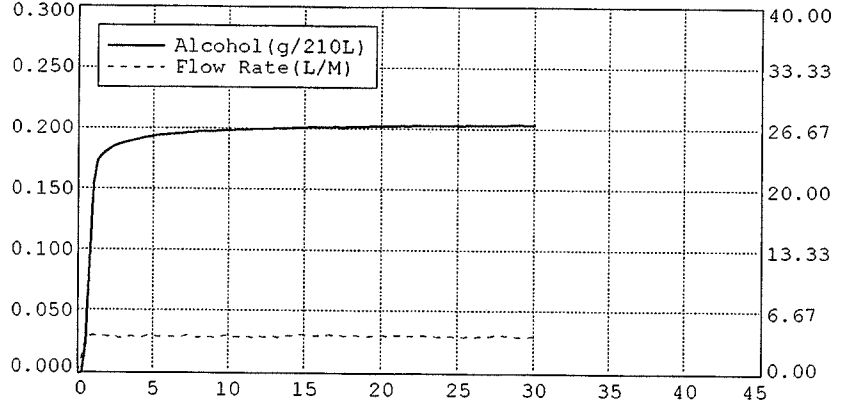
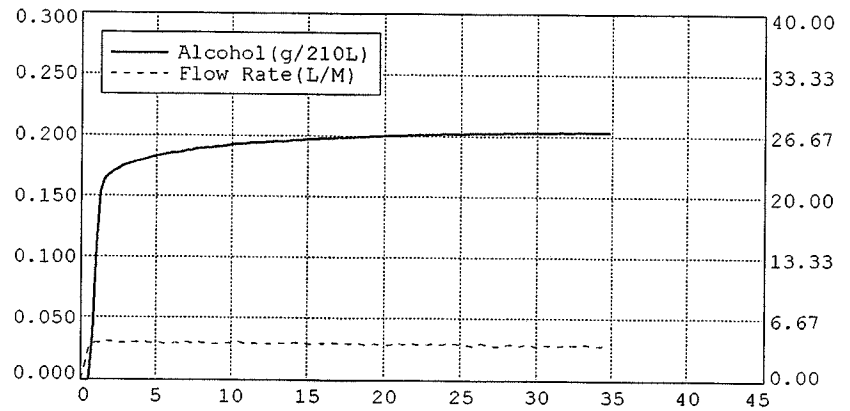
Date: 02/04/2021
 Time: 15:11:00

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:12
INTERNAL STANDARD	VERIFIED	15:12
EXTERNAL STANDARD	0.204	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.204	15:14
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.203	15:15
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.204	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.203	15:18
BLANK TEST	0.000	15:19

Average = 0.2036
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100691

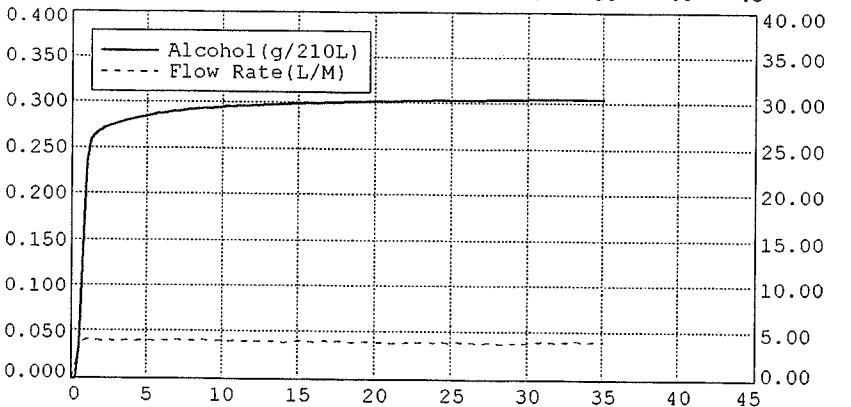
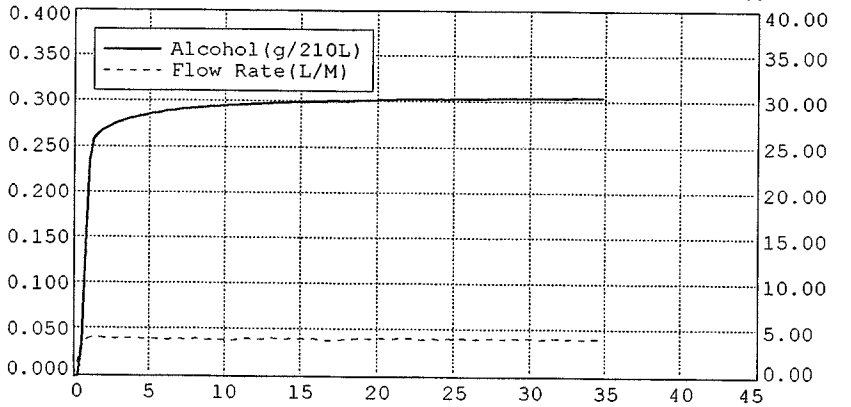
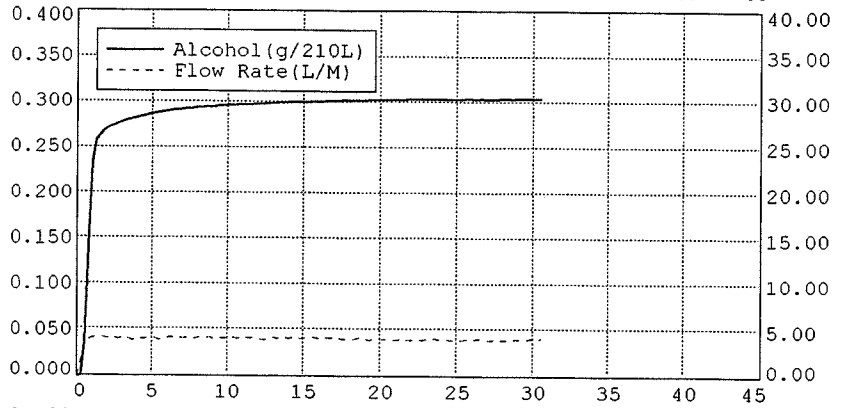
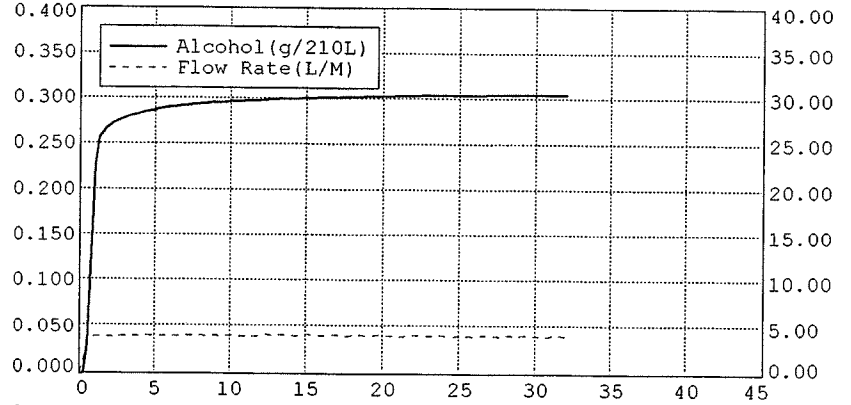
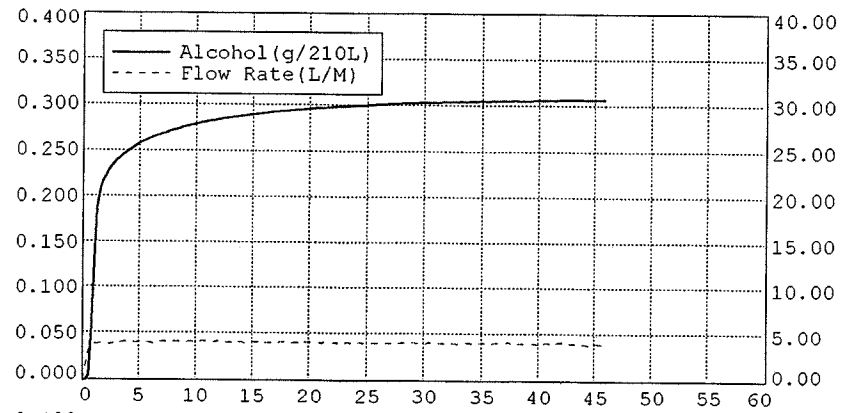
Date: 02/04/2021
 Time: 15:23:18

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:24
INTERNAL STANDARD	VERIFIED	15:24
EXTERNAL STANDARD	0.307	15:25
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.305	15:27
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.304	15:28
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.304	15:30
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.305	15:31
BLANK TEST	0.000	15:32

Average = 0.3050
 Std Dev = 0.0012



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100691

Date: 02/05/2021
Time: 08:52:58

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

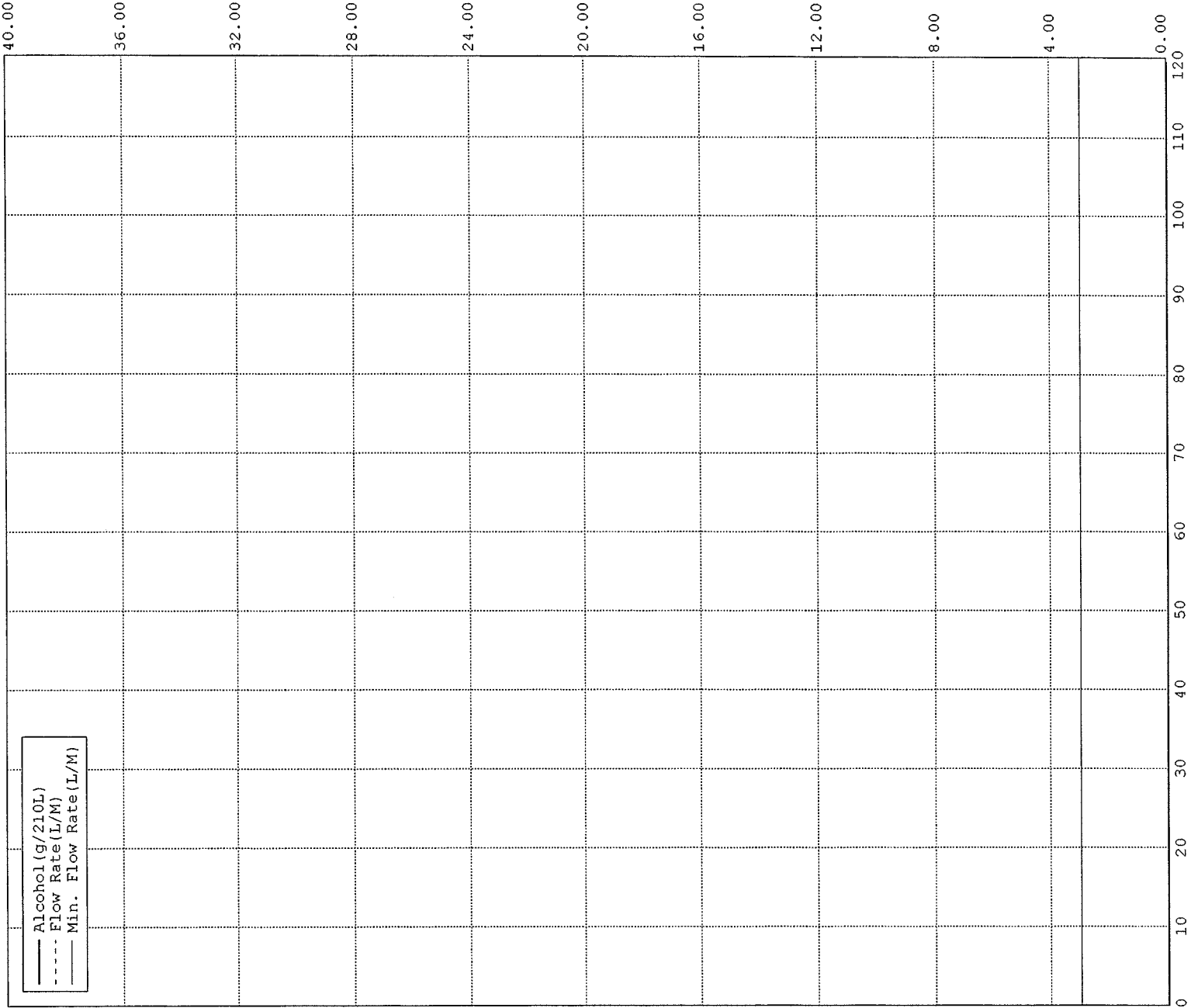
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.01: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 08:53
BLANK TEST 0.000 08:54
INTERNAL STANDARD VERIFIED 08:54
EXTERNAL STANDARD 0.081 08:54
BLANK TEST 0.000 08:55
SUBJECT SAMPLE INCOMPLETE 08:57



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 02/05/2021
Time: 08:46:02

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

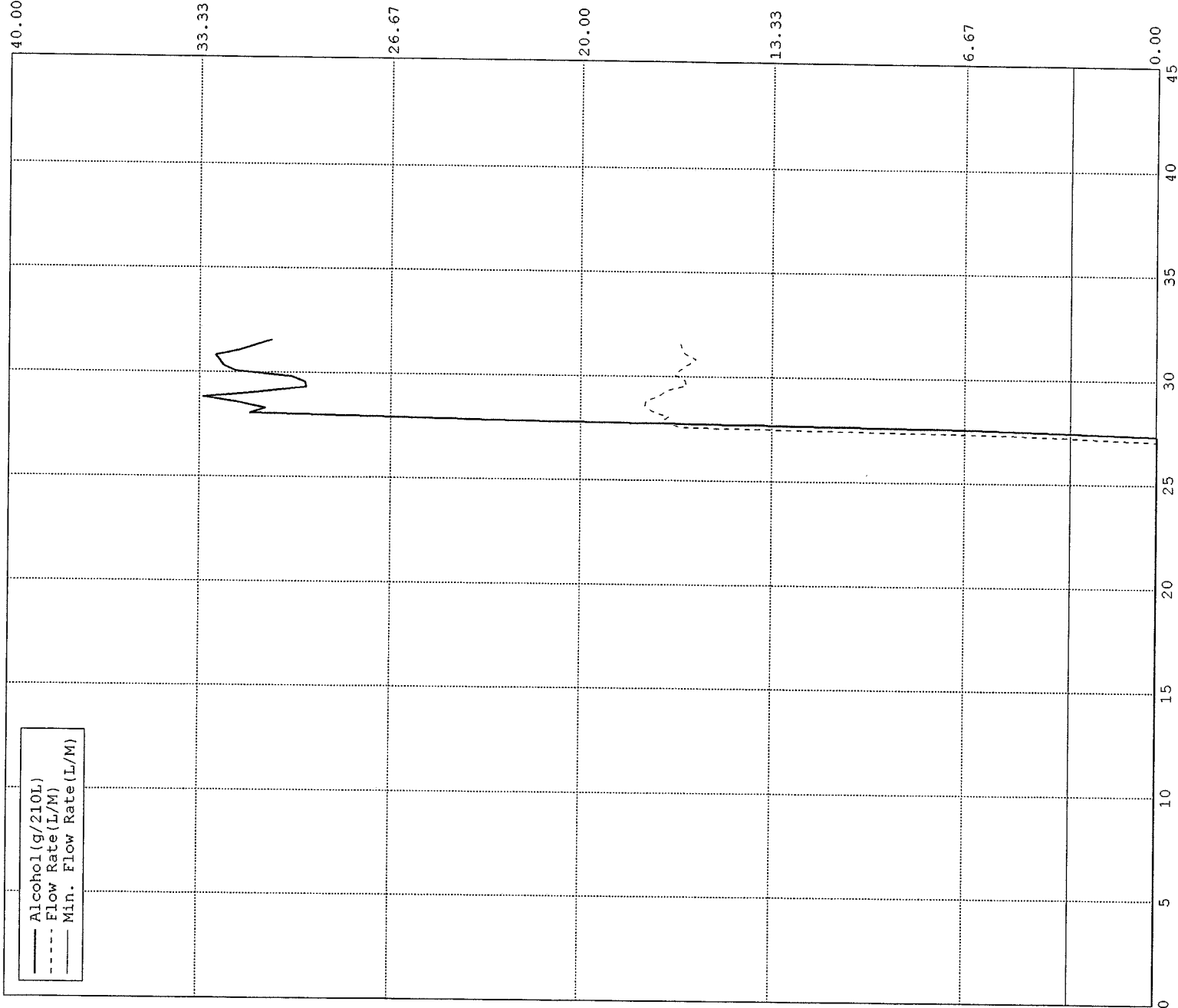
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.01: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 08:47
BLANK TEST 0.000 08:47
INTERNAL STANDARD VERIFIED 08:47
EXTERNAL STANDARD 0.080 08:47
BLANK TEST 0.000 08:48
SUBJECT SAMPLE INVALID 08:49

DM



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 02/05/2021
Time: 09:06:36

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 30.02: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

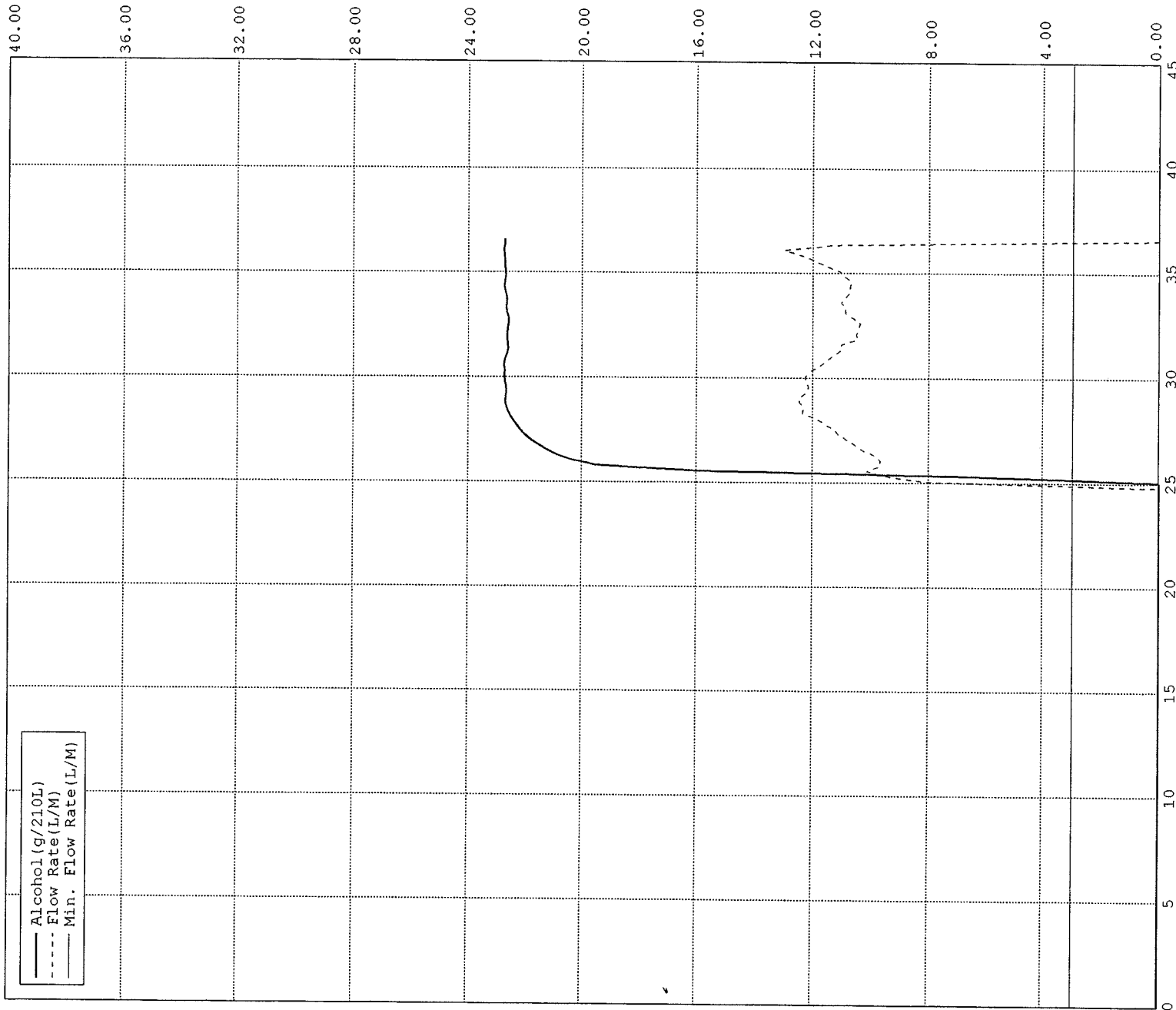
DIAGNOSTIC CHECK PASSED 09:19
BLANK TEST 0.000 09:19
INTERNAL STANDARD VERIFIED 09:20
Xq = 0.100 (0.26%)
EXTERNAL STANDARD 0.081 09:20
X[1] = 0.0808 (-0.0006) (-0.0006)
BLANK TEST 0.000 09:21
SUBJECT SAMPLE XXX 09:21
X[1] = 0.1142 (-0.0197) (-0.0022)

Interference Detected

Filter 2 average: 0.0004

Filter 3 average: 0.0000

DM



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 02/05/2021
Time: 09:24:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

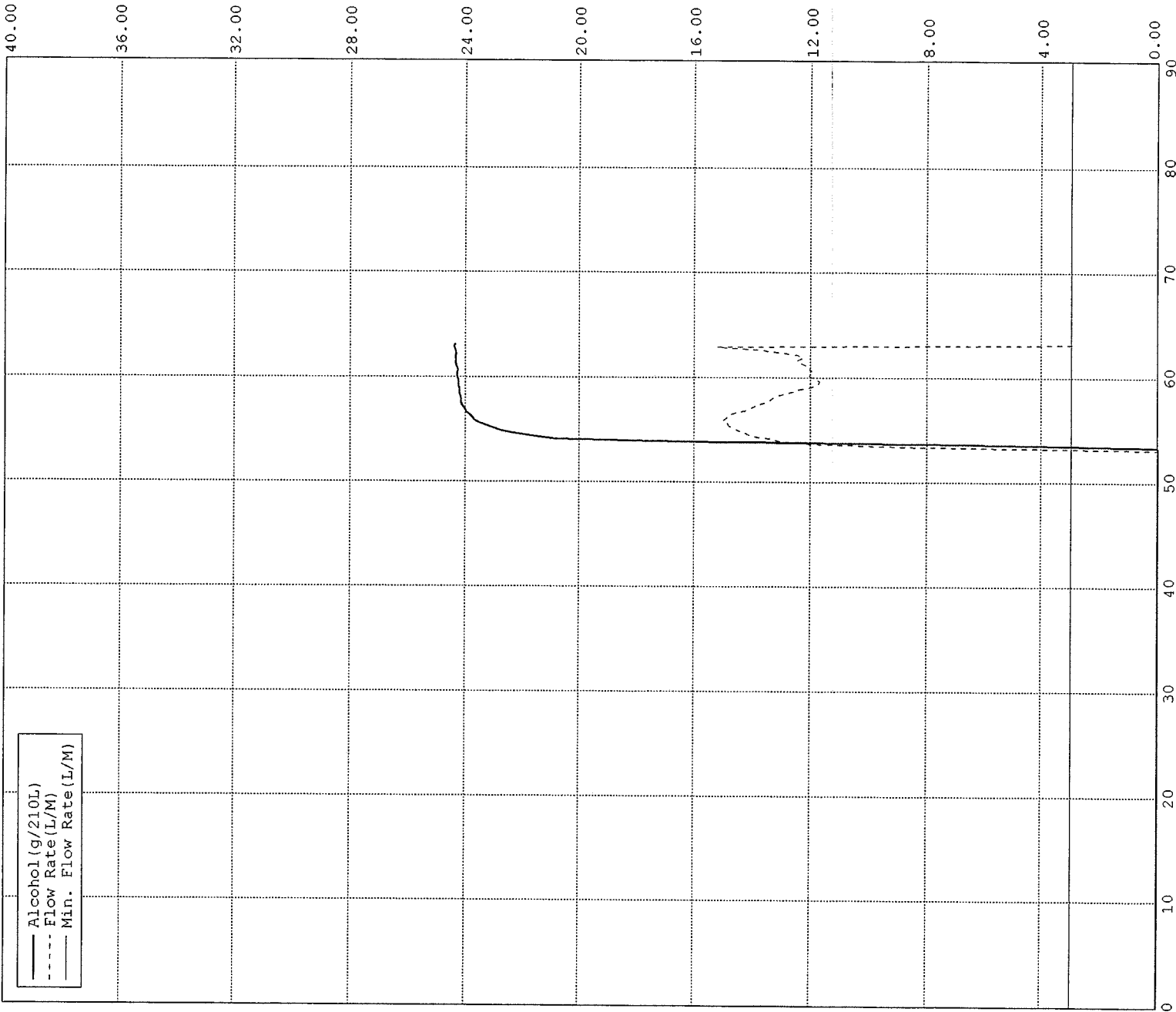
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.02: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 09:25
BLANK TEST 0.000 09:25
INTERNAL STANDARD VERIFIED 09:25
Xg = 0.100 (0.35%)
EXTERNAL STANDARD 0.081 09:25
X[1] = 0.0806 (0.0009) (0.0004)
BLANK TEST 0.000 09:26
SUBJECT SAMPLE XXX 09:27
X[1] = 0.1221 (-0.0278) (-0.0015)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 02/05/2021
Time: 09:29:23

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

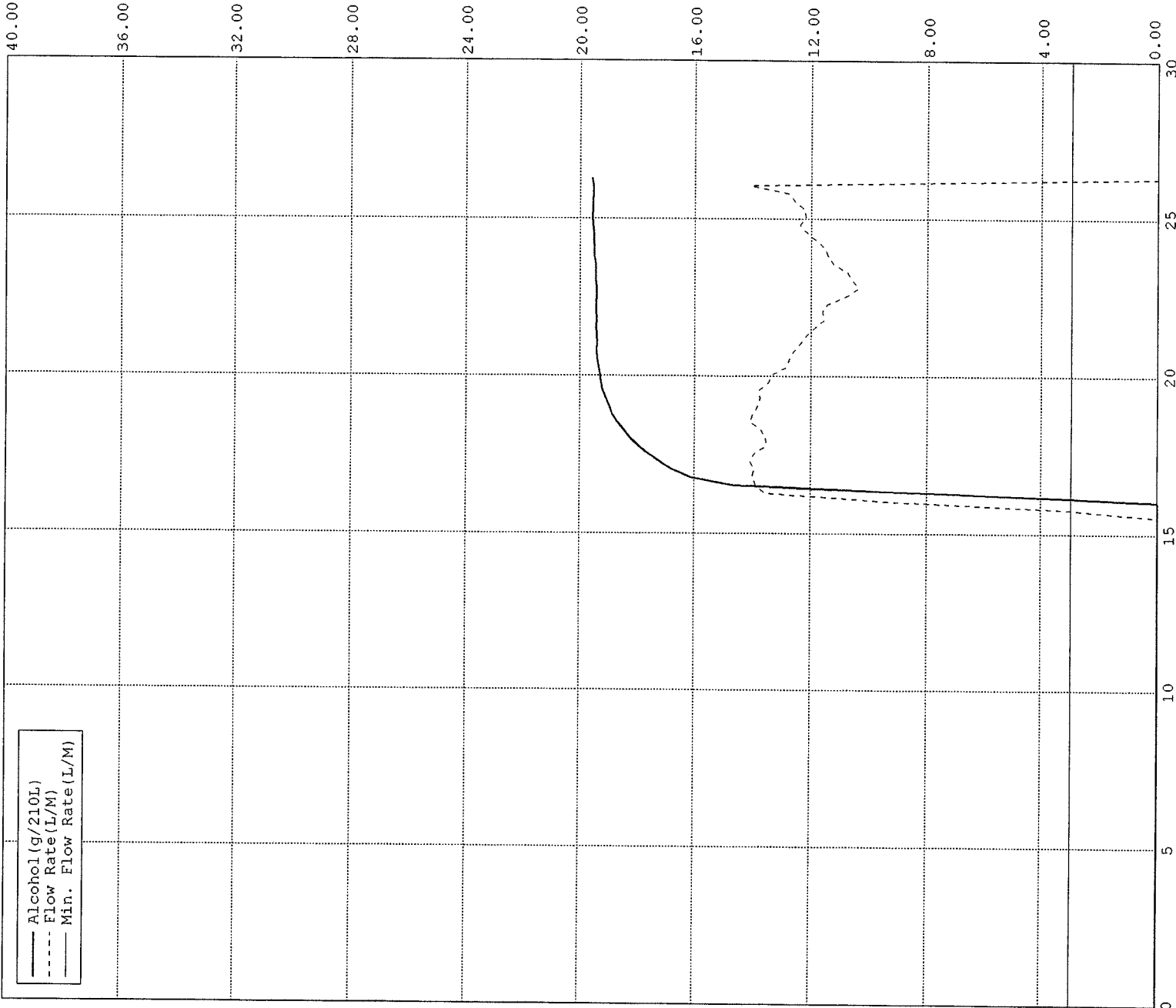
DEPT/AGENCY:
INTERFERENCE NEGATIVE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.02: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:30
BLANK TEST	0.000	09:30
INTERNAL STANDARD	VERIFIED	09:30
$X_q = 0.101$ (0.09%)		
EXTERNAL STANDARD	0.081	09:30
$X[1] = 0.0810$ (0.0007)	(0.0007)	
BLANK TEST	0.000	09:31
SUBJECT SAMPLE (Vol=2.17L)	0.098	09:32
$X[1] = 0.0985$ (0.0009)	(-0.0018)	
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.080	09:33
$X[1] = 0.0804$ (0.0006)	(-0.0005)	
BLANK TEST	0.000	09:34

Handwritten signature



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 02/05/2021
Time: 09:00:25

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

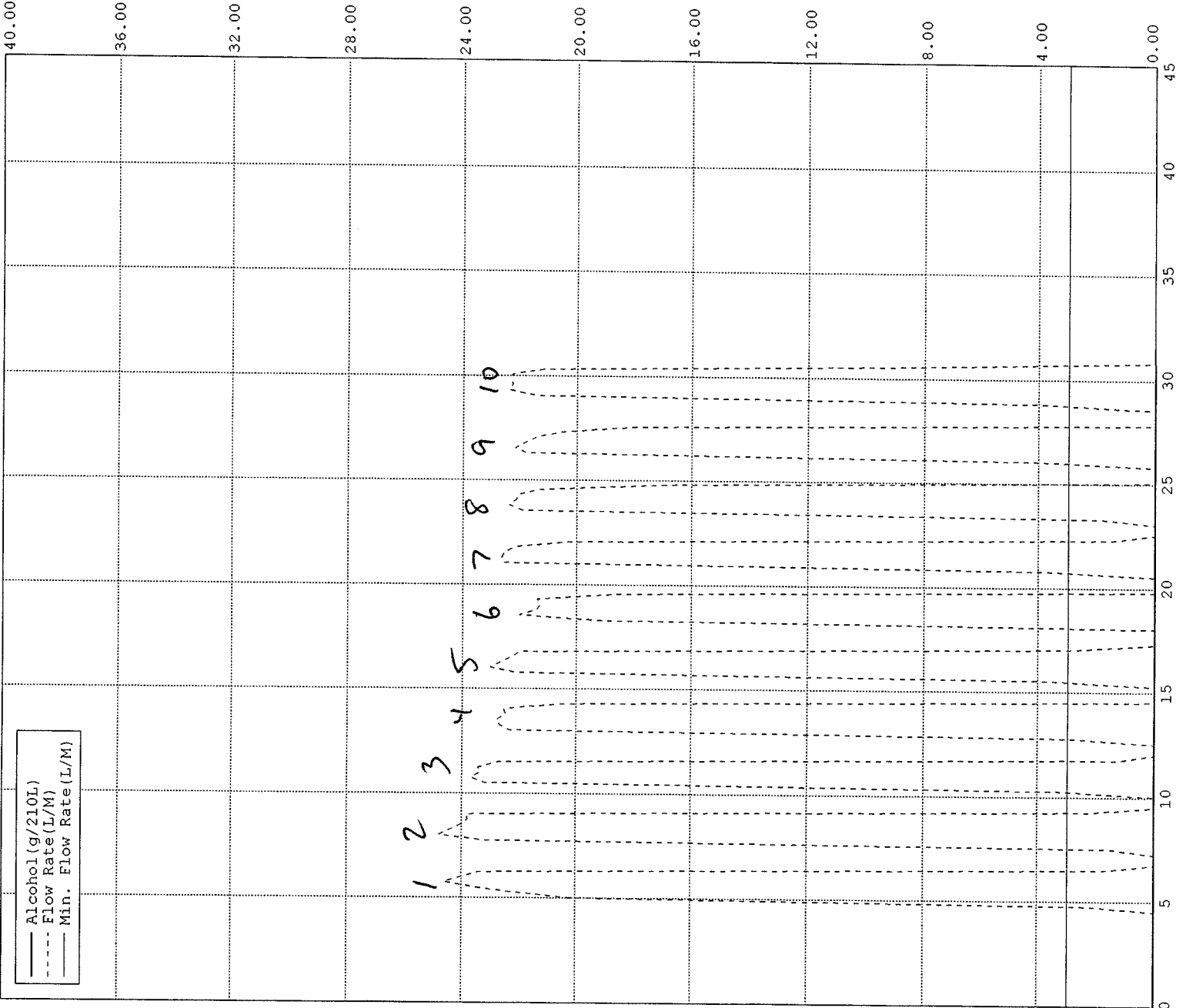
DEPT/AGENCY:
MAXIMUM ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.02: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 09:01
BLANK TEST 0.000 09:01
INTERNAL STANDARD VERIFIED 09:01
EXTERNAL STANDARD 0.081 09:01
BLANK TEST 0.000 09:02
SUBJECT SAMPLE XXX 09:03

Maximum Attempts Exceeded

DEREK



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100691

Date: 02/05/2021
 Time: 08:37:18

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

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

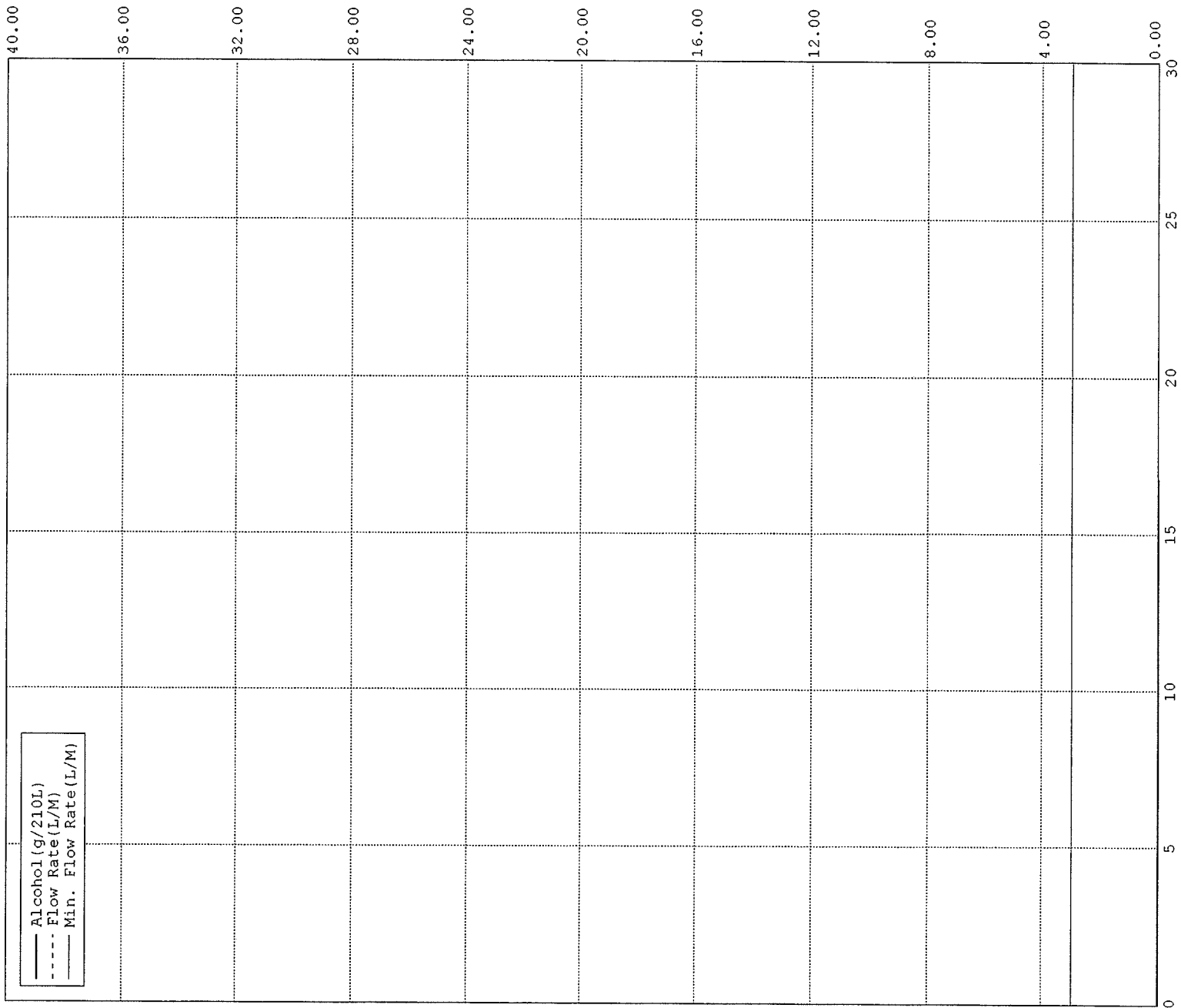
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 30.00: 0.080
 LOT #: AG018102
 EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 08:39
 BLANK TEST 0.000 08:39
 INTERNAL STANDARD VERIFIED 08:39
 EXTERNAL STANDARD 0.080 08:40
 BLANK TEST 0.000 08:41

RFI DETECTED

DM



SUBJECT TEST

Alaska Department of Public Safety
DAPAMASTER dmt: 100691

Date: 02/05/2021
Time: 10:28:53

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 30.03: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 10:30
BLANK TEST 0.000 10:31
INTERNAL STANDARD VERIFIED 10:31
EXTERNAL STANDARD 0.081 10:31
BLANK TEST 0.000 10:32
SUBJECT SAMPLE (Vol=2.54L) 0.000 10:32
BLANK TEST 0.000 10:33
EXTERNAL STANDARD 0.081 10:33
BLANK TEST 0.000 10:34

DW

