

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 3/20/2025

Version: 2.0

Instrument #: 100380

Analyst(s): Megan Carlock

Start Date: 5/6/25

Reason for Repair

Broken breath hose, potential power issue, prior status messages for gas flow error, blank error, and interference.

Troubleshooting/Repair

- Replaced breath hose
- Reattached double-check valve to wall and replaced O-ring.
- Adjusted lamp and cooler to get detector voltage within range.
- When opening and closing the lid the instrument kept turning off and on. A spark was observed when the solenoid wire came into contact with a screw on the sample chamber. The solenoid wiring was exposed and appeared welded to the screw afterwards.
- Solenoid replaced.
- A non-drinking subject test, supervisor test, and VOC were run. All completed with no status messages and the filter readings appear normal. Final non-drinking subject test completed with no status messages as well.

☒ VOC (attached)

☒ VOC Internal Standard value $\leq 3.00\%$

☒ Verify software version

☒ Non-Drinking Subject Test (attached)

☐ Ready for Adjustment

☐ Further Repair Needed

☐ Proceed to Close Out

☒ Ready for Calibration

☐ Return to Factory

End Date: 6/12/25

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100380

Date: 06/12/2025

Time: 13:18:52

SUBJECT NAME:

TEST TEST

LICENSE #: XXX

OPERATOR NAME:

MEGAN CARLOCK

OPERATOR'S #: 10747

DEPT/AGENCY:

NON-DRINKING SUBJECT TEST

CASE/REPORT: XXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

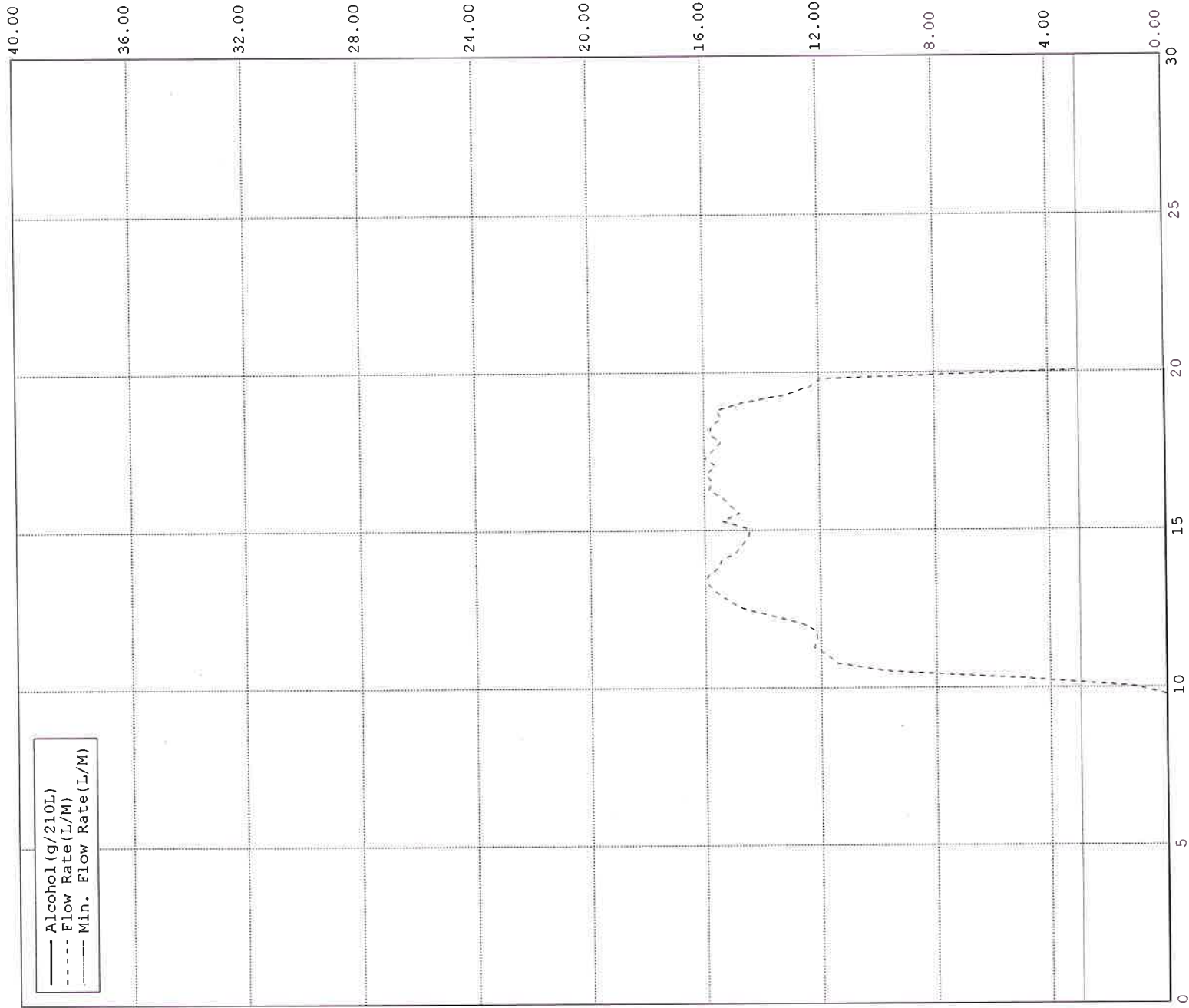
TARGET AT 29.82: 0.080

LOT #: AG335202

EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	13:19
BLANK TEST	0.000	13:20
INTERNAL STANDARD	VERIFIED	13:20
EXTERNAL STANDARD	0.076	13:20
BLANK TEST	0.000	13:21
SUBJECT SAMPLE (Vol=2.31L)	0.000	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.076	13:22
BLANK TEST	0.000	13:23

MNC



SUPERVISOR TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100380

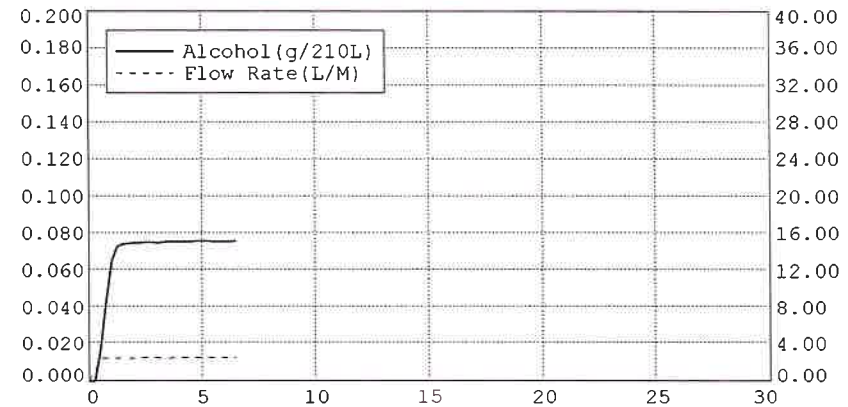
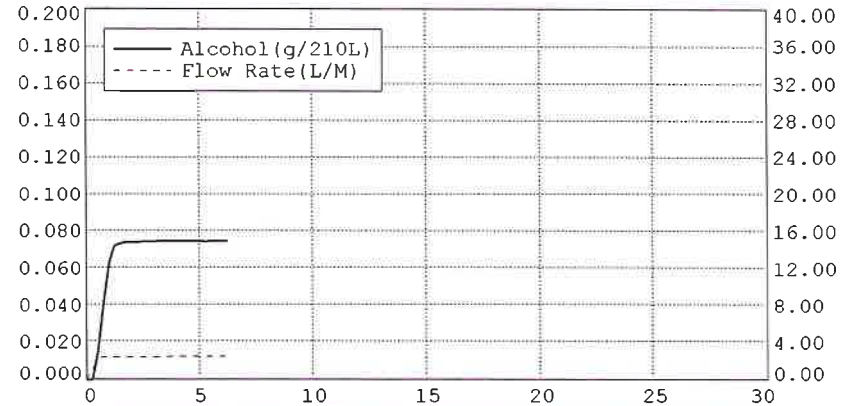
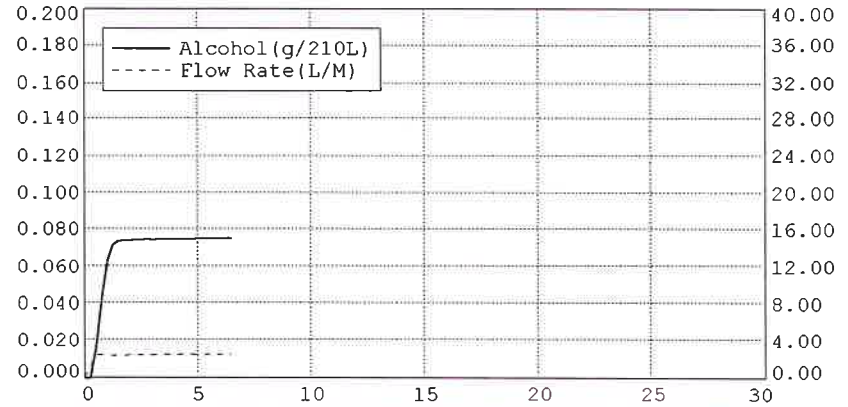
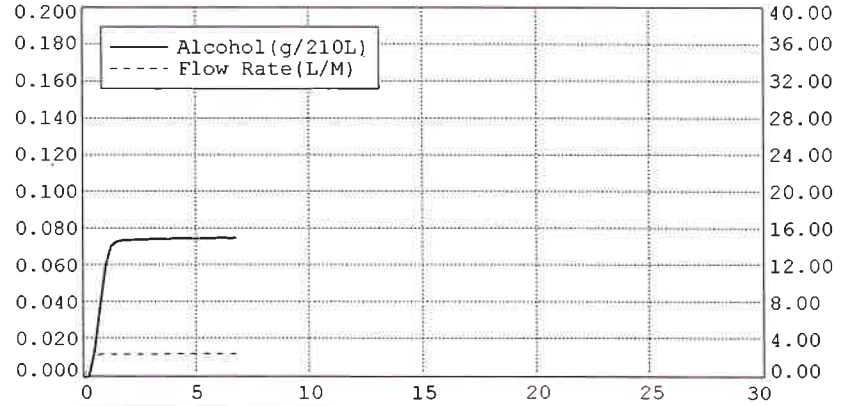
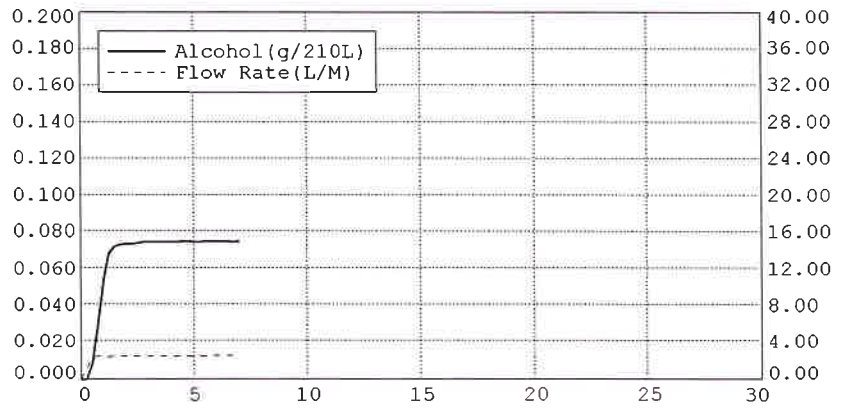
Date: 06/12/2025
Time: 13:26:37

SUPERVISOR NAME:
MEGAN CARLOCK
OPERATOR'S #: 10747

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.82: 0.080
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 154 psi

BLANK TEST	0.000	13:27
INTERNAL STANDARD	VERIFIED	13:27
Xq = 0.085 (1.11%)		
EXTERNAL STANDARD	0.076	13:28
X[1] = 0.0759 (-0.0014) (0.0000)		
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.076	13:29
X[1] = 0.0760 (-0.0011) (0.0004)		
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.076	13:30
X[1] = 0.0763 (-0.0010) (0.0013)		
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.076	13:31
X[1] = 0.0761 (-0.0015) (0.0005)		
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.077	13:32
X[1] = 0.0768 (-0.0014) (0.0007)		
BLANK TEST	0.000	13:33

Average = 0.0762
Std Dev = 0.0004



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100380

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/12/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.81: 0.080

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 137 psi

BLANK TEST	0.000	13:37
INTERNAL STANDARD	VERIFIED	13:37
Xq = 0.085 (1.21%)		
EXTERNAL STANDARD	0.077	13:37
X[1] = 0.0768 (-0.0010) (0.0018)		
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.076	13:38
X[1] = 0.0761 (-0.0016) (0.0019)		
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.076	13:40
X[1] = 0.0764 (-0.0010) (0.0022)		
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.076	13:41
X[1] = 0.0764 (-0.0013) (0.0016)		
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.077	13:42
X[1] = 0.0768 (-0.0006) (0.0017)		
BLANK TEST	0.000	13:43

Average = 0.0764

Std Dev = 0.0005

Diagnostic Check

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 = 44.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.72 V PASSED
(1.00 V - 2.32 V)

Cooler Voltage = 1.49 V PASSED
(0.95 V - 2.23 V)

Bias Voltage = 80 V PASSED
(48 V - 112 V)

Chopper Freq = 526 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.884 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 = 0.086 0.91% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100380

Date: 06/12/2025

Time: 13:55:02

SUBJECT NAME:

TEST TEST

LICENSE #: XXX

OPERATOR NAME:

MEGAN CARLOCK

OPERATOR'S #: 10747

DEPT/AGENCY:

NON-DRINKING SUBJECT TEST

CASE/REPORT: XXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.81: 0.080

LOT #: AG335202

EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	13:56
BLANK TEST	0.000	13:56
INTERNAL STANDARD	VERIFIED	13:56
EXTERNAL STANDARD	0.077	13:56
BLANK TEST	0.000	13:57
SUBJECT SAMPLE (Vol=2.75L)	0.000	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.077	13:58
BLANK TEST	0.000	13:59

MUC

