

# Alaska Scientific Crime Detection Laboratory

## DataMaster Repair Form

Effective: 3/20/2025

Version: 2.0

Instrument #: 100361

Analyst(s): Derck Walton

Start Date: 10/20/25

### Reason for Repair

Filter wheel errors

### Troubleshooting/Repair

2 of 13 filter wheel errors on filter test. Locking pin does not quite utilize full notch length in the filter wheel housing side panel. Replaced the locking pin spring to increase tension. Also adjusted solenoid mounting position higher to further increase tension. Epoxied locking pin bar to ~~the~~<sup>pin</sup> locking pin. Ran 22 cycles of filter test with zero errors; however, the locking pin bar epoxy came off. Tried another type of bonding clay. This also did not work well. Replaced the locking pin. Zero errors in 22 cycles.

☒ 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: 10/24/25

# VERIFICATION OF CALIBRATION REPORT

*of DataMaster dmt Breath Test Instrument*

*State of Alaska*

Serial #: 100361

*Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program*

Date: 10/20/2025

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.23: 0.078

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 215 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 13:54 |
| INTERNAL STANDARD | VERIFIED | 13:54 |
| EXTERNAL STANDARD | 0.074    | 13:54 |
| BLANK TEST        | 0.000    | 13:55 |
| EXTERNAL STANDARD | 0.075    | 13:55 |

Filter Wheel Error

## Diagnostic Check

### VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.8°C PASSED

Breath Tube = 48.1°C PASSED

### PUMP INFO

Flow Rate = 4.464 L/M PASSED

### DETECTOR INFO

PUMP ON PASSED

PUMP OFF PASSED

### FILTER INFO

Filter 1 PASSED

Filter 2 PASSED

Filter 3 PASSED

INTERNAL STANDARD PASSED

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/20/2025

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.23: 0.078

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 211 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 14:20 |
| INTERNAL STANDARD | VERIFIED | 14:20 |
| EXTERNAL STANDARD | 0.074    | 14:20 |
| BLANK TEST        | 0.000    | 14:21 |
| EXTERNAL STANDARD | 0.075    | 14:21 |
| BLANK TEST        | 0.000    | 14:22 |
| EXTERNAL STANDARD | 0.075    | 14:22 |
| BLANK TEST        | 0.000    | 14:23 |
| EXTERNAL STANDARD | 0.075    | 14:23 |
| BLANK TEST        | 0.000    | 14:24 |
| EXTERNAL STANDARD | 0.076    | 14:24 |
| BLANK TEST        | 0.000    | 14:25 |

Average = 0.0750

Std Dev = 0.0007

## Diagnostic Check

### VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

### TEMPERATURES

Sample Chamber = 49.2°C

PASSED

Breath Tube = 48.1°C

PASSED

### PUMP INFO

Flow Rate = 4.613 L/M

PASSED

### DETECTOR INFO

PUMP ON

PASSED

PUMP OFF

PASSED

### FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

INTERNAL STANDARD

PASSED

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/24/2025

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 28.92: 0.077

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 175 psi

|                                  |          |       |
|----------------------------------|----------|-------|
| BLANK TEST                       | 0.000    | 13:36 |
| INTERNAL STANDARD ✓              | VERIFIED | 13:36 |
| Xq = 0.088 (0.00%)               |          |       |
| EXTERNAL STANDARD                | 0.074    | 13:36 |
| X[1] = 0.0744 (-0.0019) (0.0026) |          |       |
| BLANK TEST                       | 0.000    | 13:37 |
| EXTERNAL STANDARD                | 0.074    | 13:37 |
| X[1] = 0.0742 (-0.0018) (0.0030) |          |       |
| BLANK TEST                       | 0.000    | 13:38 |
| EXTERNAL STANDARD                | 0.074    | 13:38 |
| X[1] = 0.0740 (-0.0021) (0.0023) |          |       |
| BLANK TEST                       | 0.000    | 13:39 |
| EXTERNAL STANDARD                | 0.074    | 13:39 |
| X[1] = 0.0741 (-0.0017) (0.0023) |          |       |
| BLANK TEST                       | 0.000    | 13:40 |
| EXTERNAL STANDARD                | 0.074    | 13:41 |
| X[1] = 0.0743 (-0.0018) (0.0024) |          |       |
| BLANK TEST                       | 0.000    | 13:41 |

Average = 0.0740

Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

DMT: 3.02 ✓

PIC: 3.02

Modem: 2.6

Questions: 2.2

### TEMPERATURES

Sample Chamber = 49.1°C PASSED  
(44.0°C - 52.0°C)

Breath Tube = 46.9°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.89 V PASSED  
(1.17 V - 2.73 V)

Cooler Voltage = 1.89 V PASSED  
(1.01 V - 2.35 V)

Bias Voltage = 81 V PASSED  
(48 V - 112 V)

Chopper Freq = 528 Hz PASSED  
(475 Hz - 575 Hz)

Barometer = 28.9 in

### PUMP INFO

Flow Rate = 4.499 L/M PASSED  
(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON PASSED  
(0.003 V <= 0.010 V)

PUMP OFF PASSED  
(0.003 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED

Filter 2 PASSED

Filter 3 PASSED

### INTERNAL STANDARD ✓

Xq = 0.088 0.00% (0.00% - 4.00%) PASSED

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100361

Date: 10/24/2025

Time: 13:43:59

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 28.92: 0.077

LOT #: AG335202

EXPIRATION: 12/18/2025

|                            |          |       |
|----------------------------|----------|-------|
| DIAGNOSTIC CHECK           | PASSED   | 13:45 |
| BLANK TEST                 | 0.000    | 13:45 |
| INTERNAL STANDARD          | VERIFIED | 13:45 |
| $X_q = 0.088$ (0.10%)      |          |       |
| EXTERNAL STANDARD          | 0.075    | 13:45 |
| $X[1] = 0.0751$ (-0.0024)  | (0.0019) |       |
| BLANK TEST                 | 0.000    | 13:46 |
| SUBJECT SAMPLE (Vol=3.59L) | 0.000    | 13:47 |
| $X[1] = 0.0000$ (0.0000)   | (0.0000) |       |
| BLANK TEST                 | 0.000    | 13:48 |
| EXTERNAL STANDARD          | 0.075    | 13:48 |
| $X[1] = 0.0747$ (-0.0011)  | (0.0022) |       |
| BLANK TEST                 | 0.000    | 13:49 |

*Handwritten signature*

