

# Alaska Scientific Crime Detection Laboratory

## DataMaster Repair Form

Effective: 10/10/2022

Version: 1.0

Instrument #: 100406

Analyst(s): Derech Watton

Start Date: 07/15/24

Observed by Kaija Swisher

### Reason for Repair

Double check valve not adhering. Naked wire on control board.

### Troubleshooting/Repair

Aligned double check valve to side wall/panel. Replaced regulator. Regulator activates Ok from Tech screen. <sup>7/16/24 DJW</sup> Recalibrated the touch screen.

Breath hose black end piece is pulled away from remainder of the hose. Replaced breath hose.

The exposed wire on the controller board was part of the wiring for the gas regulator and was therefore replaced when the regulator was replaced. DJW 08/13/2024

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> VOC (attached)                            | <input checked="" type="checkbox"/> Verify software version              |
| <input checked="" type="checkbox"/> VOC Internal Standard value $\leq 3.00\%$ | <input checked="" type="checkbox"/> Non-Drinking Subject Test (attached) |
| <input type="checkbox"/> Ready for Adjustment                                 | <input checked="" type="checkbox"/> Ready for Calibration                |
| <input type="checkbox"/> Further Repair Needed                                | <input type="checkbox"/> Return to Factory                               |
| <input type="checkbox"/> Proceed to Close Out                                 |  |

End Date: 07/16/24

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Approved by: Chemistry Supervisor

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100406

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/16/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.69: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025  
TANK PRESSURE: 954 psi

BLANK TEST 0.000 14:33  
INTERNAL STANDARD ✓ VERIFIED 14:33  
Xq = 0.085 (0.41%)  
EXTERNAL STANDARD 0.080 14:33  
X[1] = 0.0798 (-0.0006) (-0.0007)  
BLANK TEST 0.000 14:34  
EXTERNAL STANDARD 0.079 14:34  
X[1] = 0.0793 (-0.0013) (-0.0008)  
BLANK TEST 0.000 14:35  
EXTERNAL STANDARD 0.079 14:35  
X[1] = 0.0793 (-0.0010) (-0.0006)  
BLANK TEST 0.000 14:36  
EXTERNAL STANDARD 0.079 14:36  
X[1] = 0.0792 (-0.0009) (-0.0008)  
BLANK TEST 0.000 14:37  
EXTERNAL STANDARD 0.079 14:37  
X[1] = 0.0791 (-0.0018) (-0.0008)  
BLANK TEST 0.000 14:38

Average = 0.0792  
Std Dev = 0.0004

## 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 = 43.2°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.76 V PASSED  
(1.07 V - 2.51 V)  
Cooler Voltage = 1.71 V PASSED  
(1.07 V - 2.51 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 531 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.7 in

### PUMP INFO

Flow Rate = 4.902 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 = 0.085 0.20% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100406

Date: 07/16/2024  
Time: 14:40:52

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 29.69: 0.079  
LOT #: AG335202  
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	14:41
BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:42
EXTERNAL STANDARD	0.080	14:42
BLANK TEST	0.000	14:43
SUBJECT SAMPLE (Vol=2.81L)	0.000	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.080	14:44
BLANK TEST	0.000	14:45

