

# Alaska Scientific Crime Detection Laboratory

## DataMaster Repair Form

Effective: 10/10/2022

Version: 1.0

Instrument #: 100365

Analyst(s): Carlie Glaister

Start Date: 9/26/2023

### Reason for Repair

Instrument getting internal standard errors after adjustment.

### Troubleshooting/Repair

Reset options. Detector issue suspected.  
On 11/29/23 adjusted detector voltage in technician mode to be w/in range (VOC ran before & after adjustment). Observed detector voltage drifting over time. Replaced detector. Adjusted detector voltage in technician mode to be w/in range. Lamp & cover near max. Detector voltage jumping around. Replaced ~~det~~ detector w/ a different new one.  
11/30/23 - Checked detector voltage next day. Has drifted out of range. Replaced controller board. Adjusted detector voltage.  
12/1/23 - Checked detector voltage next day. It has remained w/in passing range & appears to be stable.

VOC1: IS = 3.61%. Interference detected status message on external standard  
VOC2: Internal standard error 5.47%.

VOC (attached)

Verify software version

VOC Internal Standard value  $\leq 3.00\%$

Non-Drinking Subject Test (attached)

MLB  
12/1/23

Ready for Adjustment

Ready for Calibration

Further Repair Needed

Return to Factory

Proceed to Close Out

End Date: 12/1/23

SUBJECT TEST

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100365  
-----

Date: 09/26/2023  
Time: 13:38:39

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.30: 0.078

DIAGNOSTIC CHECK PASSED 13:41  
BLANK TEST 0.000 13:41  
INTERNAL STANDARD VERIFIED 13:41

Simulator Timed Out

*Reset options*



SUBJECT TEST

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100365  
-----

Date: 09/26/2023  
Time: 13:43:42

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

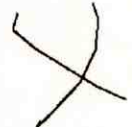
OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.30: 0.078

DIAGNOSTIC CHECK PASSED 13:45  
BLANK TEST 0.000 13:45  
INTERNAL STANDARD ERROR 13:45

Internal Standard Error *6.53%*





# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/03/2023

## External Standard Test Values

## 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 = 44.1°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.83 V PASSED  
(1.10 V - 2.56 V)  
Cooler Voltage = 1.89 V PASSED  
(1.13 V - 2.65 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 529 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.9 in

### PUMP INFO

Flow Rate = 4.460 L/M PASSED  
(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON FAILED  
(0.044 V <= 0.010 V)  
PUMP OFF FAILED  
(0.031 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

Xq = 0.107 19.98% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/29/2023

## External Standard Test Values

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.9°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 40.3°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.83 V PASSED  
(1.10 V - 2.56 V)  
Cooler Voltage = 1.89 V PASSED  
(1.13 V - 2.65 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 516 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.3 in

### PUMP INFO

Flow Rate = 4.360 L/M PASSED  
(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON FAILED  
(0.038 V <= 0.010 V)  
PUMP OFF FAILED  
(0.033 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

Xq = 0.082 8.76% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/29/2023

## External Standard Test Values

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.9°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 40.8°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.89 V PASSED  
(1.10 V - 2.56 V)  
Cooler Voltage = 1.84 V PASSED  
(1.13 V - 2.65 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 521 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.2 in

### PUMP INFO

Flow Rate = 4.372 L/M PASSED  
(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON FAILED  
(0.020 V <= 0.010 V)  
PUMP OFF FAILED  
(0.021 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

Xq = 0.084 5.94% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/01/2023

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.00: 0.078  
LOT #: AG135004  
EXPIRATION: 12/16/2023  
TANK PRESSURE: 586 psi

BLANK TEST 0.000 08:46  
INTERNAL STANDARD VERIFIED 08:46  
Xq = 0.093 (3.61%)  
EXTERNAL STANDARD 0.075 08:47  
X[1] = 0.0749 (-0.0029) (0.0000)  
BLANK TEST 0.000 08:47  
EXTERNAL STANDARD INTERFERENCE 08:48  
X[1] = 0.0776 (-0.0025) (-0.0045)

Interference Detected

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.9°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 43.8°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 2.05 V PASSED  
(1.10 V - 2.56 V)  
Cooler Voltage = 1.82 V PASSED  
(1.13 V - 2.65 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 519 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.0 in

### PUMP INFO

Flow Rate = 4.514 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  
(0.005 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

Xq = 0.093 3.61% (0.00% - 4.00%) PASSED



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/01/2023

## External Standard Test Values

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.9°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 41.8°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 2.05 V PASSED  
(1.10 V - 2.56 V)  
Cooler Voltage = 1.82 V PASSED  
(1.13 V - 2.65 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 520 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.0 in

### PUMP INFO

Flow Rate = 4.546 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

Xq = 0.094 5.47% (0.00% - 4.00%) FAILED

Diagnostic Check Failed