

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020  
Effective: 05/15/2020

Version: DMEF 2020 R0  
Status: Active

Instrument # 100399

Start Date: ~~7/26/21~~ <sup>BMB</sup> 7/23/21

Analysts: Brandi Barnett

Reason for instrument evaluation

Internal Standard error in field

Visual Inspection

- Clean
- Cermetex Box is secure
- Gas Valve upright or secured to wall
- O-ring inspection and ensure 2 O-rings in replacement bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections are secure

Troubleshooting/Repair

Instrument was just certified in-lab and failed internal standard in field. Passing internal standard at lab. Instrument will not upload via modem line only USB keep at lab for in house use.

Recommend calibration done to status messages.

Failed Internal Std. on VOC

- VOC (attached) failed due to internal std error
- Internal Standard value  $\leq 3.00\%$
- Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

End Date: 7/26/21

DIAGNOSTIC RECORD

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Alaska Department of Public Safety  
DATAMASTER dmt: 100399  
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Date: 07/23/2021  
Time: 15:06:45

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 47.7°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.66 V PASSED  
(1.01 V - 2.37 V)  
Cooler Voltage = 1.65 V PASSED  
(1.02 V - 2.38 V)  
Bias Voltage = 81 V PASSED  
(49 V - 113 V)  
Chopper Freq = 510 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.380 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 = 0.084 2.73% (0.00% - 4.00%)

DIAGNOSTIC RECORD

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Alaska Department of Public Safety  
DATAMASTER dmt: 100399  
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Date: 07/23/2021  
Time: 15:04:42

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 48.1°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.66 V PASSED  
(1.01 V - 2.37 V)  
Cooler Voltage = 1.65 V PASSED  
(1.02 V - 2.38 V)  
Bias Voltage = 81 V PASSED  
(49 V - 113 V)  
Chopper Freq = 509 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.448 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 PASSED  
Xq = 0.084 2.83% (0.00% - 4.00%)

DIAGNOSTIC RECORD

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Alaska Department of Public Safety  
DATAMASTER dmt: 100399  
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Date: 07/23/2021  
Time: 15:30:46

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

TEMPERATURES

Sample Chamber = 48.7°C                    PASSED  
(44.0°C - 52.0°C)  
Breath Tube       = 48.1°C                PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage     = 1.66 V                PASSED  
(1.01 V - 2.37 V)  
Cooler Voltage   = 1.65 V                PASSED  
(1.02 V - 2.38 V)  
Bias Voltage     = 81 V                    PASSED  
(49 V - 113 V)  
Chopper Freq     = 513 Hz                PASSED  
(475 Hz - 575 Hz)  
Barometer        = 29.7 in

PUMP INFO

Flow Rate = 4.474 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

Xq = 0.085 1.72% (0.00% - 4.00%)      PASSED



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100399

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/26/2021

## External Standard Test Values

## Diagnostic Check

### 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 = 48.0°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.66 V PASSED  
(1.01 V - 2.37 V)  
Cooler Voltage = 1.65 V PASSED  
(1.02 V - 2.38 V)  
Bias Voltage = 81 V PASSED  
(49 V - 113 V)  
Chopper Freq = 518 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.560 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  
(0.001 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

Xq = 0.091 5.97% (0.00% - 4.00%) FAILED

Diagnostic Check Failed