

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100347

Analyst(s): Carlie Haister

Start Date: 8/25/2022

### Reason for instrument evaluation

Need internal standard cleaned, regulator replaced, then calibration

### Visual Inspection

- Clean
- Cermetex Box (modem) is secure
- Double Check Valve secured to wall
- O-ring inspection and ensure 2 replacement O-rings in bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections secure

### Troubleshooting/Repair

Replaced regulator with new o-ring.

Cleaned internal standard with isopropyl alcohol.

Recommend calibration.

- VOC (attached)
- VOC Internal Standard value  $\leq 3.00\%$  9.25%
- Return to Factory
- Ready for Certification
- Further Evaluation Needed
- Verify software version
- Non-Drinking Subject Test (attached)
- Ready for Calibration
- Proceed to Close Out

CHK  
8/26/22

End Date: 8/26/2022

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100347

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/26/2022

## External Standard Test Values

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.8°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 46.8°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.63 V PASSED  
(0.98 V - 2.28 V)  
Cooler Voltage = 1.64 V PASSED  
(0.98 V - 2.30 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 518 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.5 in

### PUMP INFO

Flow Rate = 4.583 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 = 0.098 9.25% (0.00% - 4.00%) FAILED

Diagnostic Check Failed