

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 10/10/2022

Version: 1.0

Instrument #: 100422

Analyst(s): C.O. Bryant

Start Date: 12/13/22

Reason for Repair

Filter won't zero, ambient fail, blank error.

Troubleshooting/Repair

Technician made detector voltage following VOC attempt was 3.3V.

Lamp + Cooler = 1.7V, Bias = 80

Detector voltage remained unchanged following Lamp + cooler adjustments.

Replaced the detector + was able to adjust the voltage to within -0.100 to 0.100.

Internal Standard >3% on attempted VOC. Recommend adjustment due to new detector.

- | | |
|--|--|
| <input checked="" type="checkbox"/> VOC (attached) | <input checked="" type="checkbox"/> Verify software version |
| <input checked="" type="checkbox"/> VOC Internal Standard value $\leq 3.00\%$
<i>No</i> | <input checked="" type="checkbox"/> Non-Drinking Subject Test (attached)
<i>unable to perform</i> |
| <input checked="" type="checkbox"/> Ready for Adjustment | <input 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: 12/14/22

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100422

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/14/2022

External Standard Test Values

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.91 V PASSED
(1.02 V - 2.38 V)
Cooler Voltage = 1.85 V PASSED
(1.09 V - 2.55 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 518 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 5.009 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.004 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 = 0.104 11.97% (0.00% - 4.00%) FAILED

Diagnostic Check Failed