

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100359

Analyst(s): Carlie Glaister

Start Date: 9/1/2022

Reason for instrument evaluation

Blank errors during calibration.

Visual Inspection

- | | |
|---|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure | <input checked="" type="checkbox"/> Ensure modem cable present |
| <input checked="" type="checkbox"/> Double Check Valve secured to wall | <input checked="" type="checkbox"/> All tubing and connections secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag | |

Troubleshooting/Repair

Detector voltage increased after failed calibration attempts where blank errors occurred. Blank errors likely due to elevated detector readings. Another calibration test during eval resulted in a detector overflow. Replaced controller board, no change in detector drift. Replaced detector, this detector was not working (max detector voltage). Original detector reinstalled. Cleaned all lenses on the filter wheel w/ IPA (Intox recommendation). IR lamp connection re-secured. Calibration attempted which resulted in same issue w/ a detector overflow. Return to factory for repair.

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

End Date: 11/4/2022

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Approved by: Chemistry Supervisor