

Alaska Scientific Crime Detection Laboratory

DataMaster Repair Form

Effective: 10/10/2022

Version: 1.0

Instrument #: 100411

Analyst(s): Derek Walton

Start Date: 10/22/25

Reason for Repair

Multiple internal standard errors +
blank errors during calibration. Noisy chopper.
03/14/24

Troubleshooting/Repair

Replaced chopper motor - quiet now. VOC failed due to
internal standard.

- ☒ VOC (attached) ☒ Verify software version
- ☒ VOC Internal Standard value $\leq 3.00\%$ ☒ Non-Drinking Subject Test (attached) NA
- ☒ Ready for Adjustment ☐ Ready for Calibration
- ☐ Further Repair Needed ☐ Return to Factory
- ☐ Proceed to Close Out

End Date: 10/22/25

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100411

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/22/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.52: 0.076
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 1222 psi

BLANK TEST 0.000 12:24
INTERNAL STANDARD ERROR 12:24
Xq = 0.088 (4.35%)

Internal Standard Error

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 = 38.4°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.70 V PASSED
(1.15 V - 2.67 V)
Cooler Voltage = 1.82 V PASSED
(1.07 V - 2.51 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 529 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 28.5 in

PUMP INFO

Flow Rate = 3.860 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
(0.004 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.090 2.18% (0.00% - 4.00%) PASSED