

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100416

Start Date: 04/21/21

Analysts: Derek Walton

Reason for instrument evaluation

Preventive maintenance due

Visual Inspection

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

Troubleshooting/Repair

Trimmed unheated breath hose near connection to Datamaster.
Instrument has not yet been refurbished.

Replaced o-ring, one broken screw in housing near tank compartment.
Notified maintenance.

DW 04/21/21

Rated filter wires separately. Filter 2 / Filter 3 readings outside
+/- 0.0040 on VOC. No further troubleshooting of this issue due to
instrument being returned for refurbishment.

- VOC (attached)
- Internal Standard value $\leq 3.00\%$
- Verify software version

- Return to Factory for Repair
- Ready for Certification

- Ready for Calibration
- Proceed to Close Out

End Date: 04/21/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100416

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/21/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.12: 0.081
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 812 psi

BLANK TEST 0.000 14:05
INTERNAL STANDARD ✓ VERIFIED 14:06
Xq = 0.088 (0.50%)
EXTERNAL STANDARD 0.077 14:06
X[1] = 0.0775 (-0.0044) (-0.0009)
BLANK TEST 0.000 14:07
EXTERNAL STANDARD 0.078 14:07
X[1] = 0.0778 (-0.0045) (-0.0007)
BLANK TEST 0.000 14:08
EXTERNAL STANDARD 0.078 14:08
X[1] = 0.0778 (-0.0041) (-0.0010)
BLANK TEST 0.000 14:09
EXTERNAL STANDARD 0.077 14:09
X[1] = 0.0774 (-0.0048) (-0.0010)
BLANK TEST 0.000 14:10
EXTERNAL STANDARD 0.078 14:10
X[1] = 0.0778 (-0.0049) (-0.0009)
BLANK TEST 0.000 14:11

Average = 0.0776
Std Dev = 0.0005

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 = 45.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.57 V PASSED
(0.96 V - 2.24 V)
Cooler Voltage = 1.64 V PASSED
(0.98 V - 2.30 V)
Bias Voltage = 82 V PASSED
(49 V - 115 V)
Chopper Freq = 516 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.1 in

PUMP INFO

Flow Rate = 5.115 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 = 0.087 0.10% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100416

Date: 04/21/2021
Time: 14:13:20

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

DEPT/AGENCY:
NON-DRINKING SUBJECT
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.11: 0.081
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 14:14
BLANK TEST 0.000 14:14
INTERNAL STANDARD VERIFIED 14:14
EXTERNAL STANDARD 0.078 14:14
BLANK TEST 0.000 14:15
SUBJECT SAMPLE (Vol=2.97L) 0.000 14:16
BLANK TEST 0.000 14:17
EXTERNAL STANDARD 0.078 14:17
BLANK TEST 0.000 14:18

