

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100361

Start Date: 07/12/21

Analysts: Derek Walton

Reason for instrument evaluation

Refurbished by manufacturer, repaired for fatal errors

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

Replaced o-ring. Micror blocks taped, filter wheel assembly feels smooth, 5 way valve feels ok, controller board modification present. Source block was loose - tightened.

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

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

End Date: 07/12/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/12/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1192 psi

BLANK TEST 0.000 16:17
INTERNAL STANDARD ✓ VERIFIED 16:17
Xq = 0.086 (1.49%)
EXTERNAL STANDARD 0.077 16:17
X[1] = 0.0774 (-0.0022) (-0.0012)
BLANK TEST 0.000 16:18
EXTERNAL STANDARD 0.077 16:19
X[1] = 0.0772 (-0.0022) (-0.0004)
BLANK TEST 0.000 16:19
EXTERNAL STANDARD 0.077 16:20
X[1] = 0.0775 (-0.0025) (-0.0011)
BLANK TEST 0.000 16:21
EXTERNAL STANDARD 0.077 16:21
X[1] = 0.0774 (-0.0020) (-0.0006)
BLANK TEST 0.000 16:22
EXTERNAL STANDARD 0.077 16:22
X[1] = 0.0774 (-0.0024) (-0.0010)
BLANK TEST 0.000 16:23

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 41.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.95 V PASSED
(1.17 V - 2.73 V)
Cooler Voltage = 1.91 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 509 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.900 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.003 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 1.39% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 07/12/2021
Time: 16:24:32

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 29.63: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	16:25
BLANK TEST	0.000	16:25
INTERNAL STANDARD	VERIFIED	16:25
EXTERNAL STANDARD	0.078	16:26
BLANK TEST	0.000	16:27
SUBJECT SAMPLE (Vol=2.89L)	0.000	16:27
BLANK TEST	0.000	16:28
EXTERNAL STANDARD	0.079	16:28
BLANK TEST	0.000	16:29

