

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100374

Start Date: 03/22/2021

Analysts: Derck Walton

Reason for instrument evaluation

Refurbished by manufacturer, repaired for filter 2 spikes

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

Controller board modification present, minor blocks taped, filter wheel at assembly feels appropriate, source block is tight.

DM
03/22/21

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

- | | |
|---|--|
| <input type="checkbox"/> Return to Factory for Repair | <input type="checkbox"/> Ready for Calibration |
| <input checked="" type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |

End Date: 03/22/2021

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100374

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/22/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.70: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1035 psi

BLANK TEST 0.000 10:28
INTERNAL STANDARD ✓ VERIFIED 10:28
Xq = 0.087 (0.20%)
EXTERNAL STANDARD 0.079 10:28
X[1] = 0.0794 (-0.0017) (-0.0004)
BLANK TEST 0.000 10:29
EXTERNAL STANDARD 0.079 10:30
X[1] = 0.0789 (-0.0020) (-0.0009)
BLANK TEST 0.000 10:30
EXTERNAL STANDARD 0.079 10:31
X[1] = 0.0794 (-0.0019) (-0.0008)
BLANK TEST 0.000 10:32
EXTERNAL STANDARD 0.079 10:32
X[1] = 0.0790 (-0.0023) (-0.0012)
BLANK TEST 0.000 10:33
EXTERNAL STANDARD 0.079 10:33
X[1] = 0.0793 (-0.0021) (-0.0009)
BLANK TEST 0.000 10:34

Average = 0.0790
Std Dev = 0.0000

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 = 47.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.62 V PASSED
(0.97 V - 2.27 V)
Cooler Voltage = 1.61 V PASSED
(0.97 V - 2.25 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 513 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 5.072 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
(0.006 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD ✓ PASSED
Xq = 0.086 1.60% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100374

Date: 03/22/2021
Time: 10:35:49

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 29.70: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	10:41
BLANK TEST	0.000	10:41
INTERNAL STANDARD	VERIFIED	10:41
EXTERNAL STANDARD	0.080	10:41
BLANK TEST	0.000	10:42
SUBJECT SAMPLE (Vol=2.92L)	0.000	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.080	10:44
BLANK TEST	0.000	10:45

dmw

