

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100363

Start Date: 09/14/21

Analysts: Derek Walton

Reason for instrument evaluation

Refurbished by manufacturer, repaired for filter wheel 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

Controller board modification present, mirror blocks taped, source block is tight, filter wheel assembly and 5 way valve feel smooth.

Recommend calibration due to maintenance of filter wheel at factory

- 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: ^{DM}09/13/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100363

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/14/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.41: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 956 psi

BLANK TEST 0.000 11:16
INTERNAL STANDARD ✓ VERIFIED 11:17
Xq = 0.079 (2.03%)
EXTERNAL STANDARD 0.078 11:17
X[1] = 0.0784 (-0.0037) (-0.0019)
BLANK TEST 0.000 11:18
EXTERNAL STANDARD 0.078 11:18
X[1] = 0.0783 (-0.0029) (-0.0014)
BLANK TEST 0.000 11:19
EXTERNAL STANDARD 0.078 11:19
X[1] = 0.0781 (-0.0034) (-0.0013)
BLANK TEST 0.000 11:20
EXTERNAL STANDARD 0.079 11:20
X[1] = 0.0787 (-0.0028) (-0.0013)
BLANK TEST 0.000 11:21
EXTERNAL STANDARD 0.078 11:21
X[1] = 0.0783 (-0.0029) (-0.0015)
BLANK TEST 0.000 11:22

Average = 0.0782
Std Dev = 0.0004

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 = 47.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.82 V PASSED
(1.10 V - 2.56 V)
Cooler Voltage = 1.81 V PASSED
(1.09 V - 2.53 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 508 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.762 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
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD ✓ PASSED
Xq = 0.080 1.50% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 09/14/2021
Time: 12:01:16

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 29.43: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:02
BLANK TEST	0.000	12:02
INTERNAL STANDARD	VERIFIED	12:02
EXTERNAL STANDARD	0.078	12:02
BLANK TEST	0.000	12:03
SUBJECT SAMPLE (Vol=3.14L)	0.000	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.080	12:05
BLANK TEST	0.000	12:06

DW

