

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100369

Start Date: 06/03/20

Analysts: Derek Watten

Reason for instrument evaluation

Filter wheel error

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. Routed filter wires separately.

Ran filter test - ran 50 cycles with zero errors

- 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: 06/04/20

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100369

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/04/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: AG923401
EXPIRATION: 08/22/2021
TANK PRESSURE: 295 psi

BLANK TEST	0.000	14:52
INTERNAL STANDARD	✓ VERIFIED	14:52
Xq = 0.085 (0.94%)		
EXTERNAL STANDARD	0.078	14:52
X[1] = 0.0780 (0.0010) (0.0030)		
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.078	14:53
X[1] = 0.0779 (0.0005) (0.0025)		
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.078	14:54
X[1] = 0.0782 (0.0007) (0.0028)		
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.078	14:55
X[1] = 0.0780 (0.0003) (0.0023)		
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.078	14:57
X[1] = 0.0783 (0.0008) (0.0028)		
BLANK TEST	0.000	14:58

Average = 0.0780
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 = 45.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.56 V PASSED
(0.93 V - 2.17 V)
Cooler Voltage = 1.63 V PASSED
(1.00 V - 2.32 V)
Bias Voltage = 77 V PASSED
(47 V - 109 V)
Chopper Freq = 526 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 5.245 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 = 0.084 0.31% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100369

Date: 06/04/2020
 Time: 15:19:07

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 29.72: 0.079
 LOT #: AG923401
 EXPIRATION: 08/22/2021

DIAGNOSTIC CHECK	PASSED	15:22
BLANK TEST	0.000	15:22
INTERNAL STANDARD	VERIFIED	15:22
Xq = 0.084 (0.10%)		
EXTERNAL STANDARD	0.078	15:22
X[1] = 0.0782 (0.0003) (0.0034)		
BLANK TEST	0.000	15:23
SUBJECT SAMPLE (Vol=2.62L)	0.000	15:24
X[1] = 0.0000 (-0.0010) (0.0000)		
BLANK TEST	0.000	15:25
EXTERNAL STANDARD	0.078	15:25
X[1] = 0.0783 (0.0009) (0.0032)		
BLANK TEST	0.000	15:26
SUBJECT SAMPLE (Vol=2.48L)	0.000	15:26
X[1] = 0.0001 (-0.0010) (0.0000)		
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.078	15:27
X[1] = 0.0784 (0.0008) (0.0028)		
BLANK TEST	0.000	15:28
SUBJECT SAMPLE (Vol=2.18L)	0.000	15:28
X[1] = 0.0002 (-0.0006) (0.0001)		
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.078	15:30
X[1] = 0.0783 (0.0006) (0.0035)		
BLANK TEST	0.000	15:31

