

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100686

Date: 12/16/2019

Analyst: Derck Walton

1. Reason for instrument evaluation

Blank errors

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Replaced O-ring. Adjusted detector voltages.

Routed filter wires separately.

Updated software from 3.01 to 3.02. Instrument was located at DPS Academy/Sitka (training only) since 07/17/2015.

Recommend calibration due to nature of status messages.

5. VOC (attached)

6. Internal Standard value $\leq 3.00\%$ Yes No

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100686

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/16/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1128 psi

BLANK TEST	0.000	10:01
INTERNAL STANDARD	✓ VERIFIED	10:01
Xq = 0.095 (0.46%)		
EXTERNAL STANDARD	0.077	10:02
X[1] = 0.0773 (0.0003) (0.0016)		
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.077	10:03
X[1] = 0.0767 (-0.0004) (0.0013)		
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.076	10:04
X[1] = 0.0764 (-0.0009) (0.0011)		
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.076	10:05
X[1] = 0.0760 (-0.0018) (0.0013)		
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.076	10:06
X[1] = 0.0760 (-0.0013) (0.0010)		
BLANK TEST	0.000	10:07

Average = 0.0764
Std Dev = 0.0005

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 = 43.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.73 V PASSED
(1.05 V - 2.45 V)
Cooler Voltage = 1.64 V PASSED
(1.00 V - 2.34 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 538 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.053 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 ✓

Xq = 0.093 1.93% (0.00% - 4.00%) PASSED