

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100691

Date: 12/10/2019

Analyst: Derek Walton

1. Reason for instrument evaluation

Preventive maintenance due, standard out of range, internal standard error, would not turn on at check in

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 power switch - instrument turns on now. Instrument uploaded.

Replaced o-ring. Screen froze once during startup. Froze several more times. Loaded full version of 3.02 software. Froze again afterward. Reinstalled 3.02 full version.

Recommend calibration due to nature of status messages.

Checked for VOCs

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 #: 100691

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/11/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 973 psi

BLANK TEST	0.000	12:18
INTERNAL STANDARD ✓	VERIFIED	12:18
Xq = 0.099 (0.09%)		
EXTERNAL STANDARD	0.080	12:18
X[1] = 0.0803 (0.0010) (-0.0016)		
BLANK TEST	0.000	12:19
EXTERNAL STANDARD	0.080	12:19
X[1] = 0.0802 (0.0004) (-0.0020)		
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.080	12:20
X[1] = 0.0804 (0.0010) (-0.0020)		
BLANK TEST	0.000	12:21
EXTERNAL STANDARD	0.080	12:21
X[1] = 0.0803 (0.0007) (-0.0020)		
BLANK TEST	0.000	12:22
EXTERNAL STANDARD	0.081	12:22
X[1] = 0.0807 (0.0011) (-0.0018)		
BLANK TEST	0.000	12:23

Average = 0.0802
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 48.1°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.81 V (1.10 V - 2.56 V)	PASSED
Cooler Voltage = 1.77 V (1.06 V - 2.48 V)	PASSED
Bias Voltage = 81 V (49 V - 113 V)	PASSED
Chopper Freq = 527 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.401 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

PUMP ON (0.003 V <= 0.010 V)	PASSED
PUMP OFF (0.002 V <= 0.010 V)	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓	PASSED
Xq = 0.099 0.18% (0.00% - 4.00%)	