

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100684

Date: 10/04/2019

Analyst: Derek Walton

1. Reason for instrument evaluation

Instrument would not turn on at check in, being checked in for internal standard errors.

2. 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 |

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

4. Troubleshooting/Repair

Instrument uploaded and checked for VOCs after replacing on/off switch.
Replaced o-ring. Routed filter wires separately.
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 #: 100684

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/04/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.53: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 780 psi

BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:02
Xq = 0.092	(2.42%)	
EXTERNAL STANDARD	0.079	11:02
X[1] = 0.0789 (-0.0004)	(-0.0012)	
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.079	11:03
X[1] = 0.0785 (0.0003)	(-0.0008)	
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.079	11:04
X[1] = 0.0787 (-0.0004)	(-0.0013)	
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.078	11:05
X[1] = 0.0782 (-0.0006)	(-0.0015)	
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.079	11:06
X[1] = 0.0789 (-0.0002)	(-0.0005)	
BLANK TEST	0.000	11:07

Average = 0.0788
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	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.85 V	PASSED
(1.05 V - 2.45 V)	
Cooler Voltage = 1.63 V	PASSED
(0.98 V - 2.28 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 542 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 3.852 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 = 0.091 (1.26%) (0.00% - 4.00%)

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 08/08/2017
Effective: 08/10/2017

Version: DMEF2017 R1
Status: Active

Instrument # 100684

Date: 04/03/18

Analyst: Dereen Walton

1. Reason for instrument evaluation

Instrument won't turn on. Removed from service due to internal standard error. Unable to upload at checkin.

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Secured gas valve, replaced o-ring

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