

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100367

Date: 12/16/19

Analyst: Derek Walton

1. Reason for instrument evaluation

5 way valve sticking, failed slope requirement during attempted certification

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 block on 5 way valve.

Loaded full version 3.02.

Recommend calibration.

Attempting to run wet bath solutions results in pump errors every time. ① Needs new evaluation for this.

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

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/16/2019

Serial #: 100367

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.25: 0.078  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 1224 psi

BLANK TEST	0.000	14:08
INTERNAL STANDARD ✓	VERIFIED	14:08
Xq = 0.082 (0.95%)		
EXTERNAL STANDARD	0.080	14:08
X[1] = 0.0804 (-0.0005) (-0.0008)		
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.079	14:09
X[1] = 0.0788 (-0.0018) (-0.0008)		
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.079	14:10
X[1] = 0.0790 (-0.0016) (-0.0008)		
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.079	14:11
X[1] = 0.0790 (-0.0020) (-0.0015)		
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.080	14:13
X[1] = 0.0795 (-0.0012) (-0.0008)		
BLANK TEST	0.000	14:14

Average = 0.0794  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

DMT: 3.02 ✓  
PIC: 3.06  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.8°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 43.9°C (38.0°C - 50.0°C)	PASSED

### SETTINGS

Lamp Voltage = 1.54 V (0.95 V - 2.23 V)	PASSED
Cooler Voltage = 1.68 V (0.96 V - 2.24 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 517 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.3 in	

### PUMP INFO

Flow Rate = 4.417 L/M (3.500 L/M - 6.500 L/M)	PASSED
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### DETECTOR INFO

PUMP ON (0.002 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 = 0.081 2.11% (0.00% - 4.00%)	

SUPERVISOR TEST

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Alaska Department of Public Safety  
DATAMASTER dmt: 100367  
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Date: 12/16/2019  
Time: 14:20:14

SUPERVISOR NAME:  
DEREK WALTON  
OPERATOR'S #: 9508

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.100

BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21

Pump Error