

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100680

Date: 05/28/2019

Analyst: Derek Walter

1. Reason for instrument evaluation

Preventative maintenance

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

No regulator o-ring - replaced. Ran filter wires separately.  
Adjusted detector voltage.

5. VOC (attached)

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

7. 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  |

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100680

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 5/28/2019

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.73: 0.079  
LOT #: AG826101  
EXPIRATION: 9/18/2020  
TANK PRESSURE: 1211 psi

BLANK TEST	0.000	13:06
INTERNAL STANDARD	VERIFIED	13:06
Xq = 0.120	(1.27%)	
EXTERNAL STANDARD	0.078	13:06
X[1] = 0.0782	(0.0042) (0.0011)	
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.079	13:07
X[1] = 0.0787	(0.0033) (0.0016)	
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.079	13:08
X[1] = 0.0787	(0.0018) (0.0013)	
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.079	13:09
X[1] = 0.0787	(0.0022) (0.0013)	
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.078	13:11
X[1] = 0.0781	(0.0027) (0.0012)	
BLANK TEST	0.000	13:11

Average = 0.0786  
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 = 47.1°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.09 V - 2.53 V)	
Cooler Voltage = 1.80 V	PASSED
(1.03 V - 2.41 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 529 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

### PUMP INFO

Flow Rate = 4.404 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 = 0.120	(1.42%)	(0.00% - 4.00%)	PASSED
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