

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 7/10/2015  
Effective: 7/10/2015

Version: DMEF2015 R0  
Status: Active

Instrument # 100864

Date: 6/27/17

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Screen issues and breath have won't heat up.

2. Visual Inspection

3. Troubleshooting/Repair

No issues with touchscreen, restarted multiple times.

Breath have returned with containment would not heat beyond 23.8°C

- Checked exterior + interior connections
- Replaced breath hose

New breath hose heats without issue.

• Adjusted detector voltages + reset RFI

4. VOC (attached)

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

6. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100364

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/28/2017

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.76: 0.080  
LOT #: AG608504  
EXPIRATION: 03/25/2018  
TANK PRESSURE: 574 psi

BLANK TEST	0.000	11:08
INTERNAL STANDARD	VERIFIED	11:08
Xq = 0.099 (0.98%)		
EXTERNAL STANDARD	0.080	11:09
X[1] = 0.0799 (-0.0001) (0.0026)		
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.080	11:10
X[1] = 0.0804 (-0.0002) (0.0023)		
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.081	11:11
X[1] = 0.0808 (0.0003) (0.0027)		
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.081	11:12
X[1] = 0.0808 (0.0003) (0.0026)		
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.080	11:13
X[1] = 0.0805 (-0.0001) (0.0023)		
BLANK TEST	0.000	11:14

Average = 0.0804  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.0°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 2.13 V	PASSED
(1.16 V - 2.72 V)	
Cooler Voltage = 1.89 V	PASSED
(1.18 V - 2.76 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 519 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 5.124 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.009 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 = 0.100 (1.61%)	PASSED
(0.00% - 4.00%)	