

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2015 R0  
Status: Active

Instrument # 100389

Date: 10/5/16

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Removed due to past closure

2. Visual Inspection

3. Troubleshooting/Repair

No issues

Replaced regulator o-ring

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

*Certified instrument*

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100389

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/05/2016

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.89: 0.080  
LOT #: 01315080A2  
EXPIRATION: 02/05/2017  
TANK PRESSURE: 829 psi

BLANK TEST	0.000	09:53
INTERNAL STANDARD	VERIFIED	09:53
Xq = 0.100 (1.30%)		
EXTERNAL STANDARD	0.080	09:54
X[1] = 0.0803 (-0.0024) (-0.0016)		
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.080	09:55
X[1] = 0.0796 (-0.0021) (-0.0010)		
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.080	09:56
X[1] = 0.0798 (-0.0015) (-0.0005)		
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.079	09:57
X[1] = 0.0794 (-0.0019) (-0.0005)		
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.079	09:58
X[1] = 0.0794 (-0.0031) (-0.0004)		
BLANK TEST	0.000	09:59

Average = 0.0796  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

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

### SETTINGS

Lamp Voltage = 1.68 V	PASSED
(1.04 V - 2.44 V)	
Cooler Voltage = 1.76 V	PASSED
(0.99 V - 2.31 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

### PUMP INFO

Flow Rate = 4.840 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 = 0.099	PASSED
1.74% (0.00% - 4.00%)	