

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2017 R1  
Status: Active

Instrument # 100363

Date: <sup>BNB</sup> 3/4/18

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Filter Wheel error

2. Visual Inspection (internal and external)

3. O-ring inspection  replaced

4. Troubleshooting/Repair

added ethernet cable

attached check valve to side of instrument

replaced filter wheel

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 #: 100363

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/03/2018

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.62: 0.079  
LOT #: AG634001  
EXPIRATION: 12/05/2018  
TANK PRESSURE: 814 psi

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
Xq = 0.094 (3.32%)		
EXTERNAL STANDARD	0.078	13:21
X[1] = 0.0785 (0.0031) (-0.0023)		
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.079	13:22
X[1] = 0.0788 (0.0045) (-0.0022)		
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.079	13:23
X[1] = 0.0788 (0.0041) (-0.0029)		
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.079	13:24
X[1] = 0.0786 (0.0042) (-0.0026)		
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.079	13:25
X[1] = 0.0789 (0.0039) (-0.0022)		
BLANK TEST	0.000	13:26

Average = 0.0788  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.5°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.69 V	PASSED
(1.04 V - 2.44 V)	
Cooler Voltage = 1.66 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 522 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

### PUMP INFO

Flow Rate = 4.611 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
(0.001 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD PASSED

Xq = 0.095 2.51% (0.00% - 4.00%)