

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2015 R0  
Status: Active

Instrument # 100398

Date: 5/18/16

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

External dry gas would not thread on OMT regulator and O-ring was cracked.

2. Visual Inspection

3. Troubleshooting/Repair

Replaced cracked O-ring on OMT regulator and performed a VOC.

No issues with cross threading or leaking from dry gas external standard.

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 #: 100398

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/18/2016

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.83: 0.080  
LOT #: 01315080A3  
EXPIRATION: 02/05/2017  
TANK PRESSURE: 887 psi

BLANK TEST	0.000	14:32
INTERNAL STANDARD	VERIFIED	14:32
Xq = 0.096 (0.46%)		
EXTERNAL STANDARD	0.077	14:32
X[1] = 0.0770 (-0.0007) (0.0022)		
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.077	14:34
X[1] = 0.0769 (-0.0014) (0.0013)		
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.077	14:35
X[1] = 0.0771 (-0.0012) (0.0016)		
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.077	14:36
X[1] = 0.0770 (-0.0011) (0.0010)		
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.077	14:37
X[1] = 0.0768 (-0.0016) (0.0015)		
BLANK TEST	0.000	14:38

Average = 0.0770  
Std Dev = 0.0000

## 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 = 48.1°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.80 V	PASSED
(1.09 V - 2.55 V)	
Cooler Voltage = 1.79 V	PASSED
(1.06 V - 2.46 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 539 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 4.728 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.001 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 = 0.095 0.28%	PASSED
(0.00% - 4.00%)	