

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2015 R0  
Status: Active

Instrument # 100255

Date: 7/13/16

Analyst: Brandi Barnett

1. Reason for instrument evaluation

New instrument

2. Visual Inspection

3. Troubleshooting/Repair

changed venting to rear vented

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 #: 100255

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/13/2016

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.88: 0.080  
LOT #: AG608504  
EXPIRATION: 03/25/2018  
TANK PRESSURE: 1115 psi

BLANK TEST	0.000	09:00
INTERNAL STANDARD	VERIFIED	09:00
X <sub>1</sub> = 0.076 (1.24%)		
EXTERNAL STANDARD	0.078	09:00
X[1] = 0.0781 (0.0002) (0.0017)		
BLANK TEST	0.000	09:01
EXTERNAL STANDARD	0.078	09:01
X[1] = 0.0781 (0.0006) (0.0017)		
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.078	09:02
X[1] = 0.0779 (-0.0002) (-0.0007)		
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.078	09:03
X[1] = 0.0779 (-0.0002) (0.0015)		
BLANK TEST	0.000	09:04
EXTERNAL STANDARD	0.078	09:04
X[1] = 0.0779 (0.0001) (0.0005)		
BLANK TEST	0.000	09:05

Average = 0.0780  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

DMT: 3.02  
PIC: 2.05  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.5°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.61 V	PASSED
(0.97 V - 2.25 V)	
Cooler Voltage = 1.59 V	PASSED
(0.95 V - 2.23 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 538 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

### PUMP INFO

Flow Rate = 4.500 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
(0.004 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

PASSED	
X <sub>1</sub> = 0.077 0.23% (0.00% - 4.00%)	