

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2017 R1  
Status: Active

Instrument # 100397

Date: 9/13/17

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Certified instrument being returned from temporary use

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Certified instrument

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

Certified instrument BNB

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100397

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/13/2017

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.81: 0.080  
LOT #: AG634001  
EXPIRATION: 12/05/2018  
TANK PRESSURE: 514 psi

BLANK TEST	0.000	09:04
INTERNAL STANDARD	VERIFIED	09:04
Xq = 0.095 (1.50%)		
EXTERNAL STANDARD	0.079	09:04
X[1] = 0.0791 (-0.0009) (0.0019)		
BLANK TEST	0.000	09:05
EXTERNAL STANDARD	0.079	09:05
X[1] = 0.0786 (-0.0023) (0.0009)		
BLANK TEST	0.000	09:06
EXTERNAL STANDARD	0.079	09:06
X[1] = 0.0789 (-0.0019) (0.0009)		
BLANK TEST	0.000	09:07
EXTERNAL STANDARD	0.079	09:08
X[1] = 0.0786 (-0.0023) (0.0008)		
BLANK TEST	0.000	09:08
EXTERNAL STANDARD	0.079	09:09
X[1] = 0.0787 (-0.0019) (0.0012)		
BLANK TEST	0.000	09:10

Average = 0.0790  
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 = 1.69 V	PASSED
(1.03 V - 2.41 V)	
Cooler Voltage = 1.74 V	PASSED
(1.04 V - 2.44 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 531 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 4.071 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
(0.003 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.093	0.00%	(0.00% - 4.00%)	PASSED
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