

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 6/27/2017  
Effective: 7/3/2017

Version: DMEF2017 R0  
Status: Active

Instrument # 100403

Date: 7/5/17

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Preventative maintenance

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

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

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100403

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/06/2017

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.59: 0.079  
LOT #: AG608504  
EXPIRATION: 03/25/2018  
TANK PRESSURE: 434 psi

BLANK TEST	0.000	09:29
INTERNAL STANDARD	VERIFIED	09:29
Xq = 0.075	(0.70%)	
EXTERNAL STANDARD	0.081	09:29
X[1] = 0.0806 (0.0006)	(0.0009)	
BLANK TEST	0.000	09:30
EXTERNAL STANDARD	0.080	09:30
X[1] = 0.0802 (0.0010)	(0.0001)	
BLANK TEST	0.000	09:31
EXTERNAL STANDARD	0.080	09:31
X[1] = 0.0803 (0.0005)	(-0.0003)	
BLANK TEST	0.000	09:32
EXTERNAL STANDARD	0.080	09:32
X[1] = 0.0803 (0.0006)	(-0.0003)	
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.081	09:33
X[1] = 0.0807 (0.0004)	(-0.0002)	
BLANK TEST	0.000	09:34

Average = 0.0804  
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 = 45.6°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.71 V	PASSED
(1.04 V - 2.42 V)	
Cooler Voltage = 1.62 V	PASSED
(0.98 V - 2.30 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 540 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

### PUMP INFO

Flow Rate = 5.069 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.000 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 = 0.075	0.82%	(0.00% - 4.00%)
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