

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 04/03/2018  
Effective: 04/04/2018

Version: DMEF2018 R0  
Status: Active

Instrument # 100418

Date: 07/26/18

Analyst: Dereen Watton

1. Reason for instrument evaluation

Sample chamber temp. too high when calibration was attempted.

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Replaced sample chamber. VOC completed normally. Sample chamber temperature within normal range.

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

DM 07/27/18

DIAGNOSTIC RECORD

Alaska Department of Public Safety  
DATAMASTER dmt: 100418

Date: 07/12/2017  
Time: 08:37:00

VERSIONS

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

TEMPERATURES

Sample Chamber = 52.5°C FAILED  
(44.0°C - 52.0°C)  
Breath Tube = 48.1°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.88 V PASSED  
(1.10 V - 2.56 V)  
Cooler Voltage = 1.81 V PASSED  
(1.03 V - 2.39 V)  
Bias Voltage = 80 V PASSED  
(47 V - 111 V)  
Chopper Freq = 538 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.508 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  
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.079 0.11% (0.00% - 4.00%) PASSED

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100418

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/27/2018

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.90: 0.080  
LOT #: AG735001  
EXPIRATION: 12/16/2019  
TANK PRESSURE: 1094 psi

BLANK TEST	0.000	08:59
INTERNAL STANDARD	VERIFIED	08:59
Xq = 0.077	(2.41%)	
EXTERNAL STANDARD	0.080	08:59
X[1] = 0.0799 (-0.0013)	(0.0007)	
BLANK TEST	0.000	09:00
EXTERNAL STANDARD	0.080	09:00
X[1] = 0.0801 (-0.0012)	(0.0006)	
BLANK TEST	0.000	09:01
EXTERNAL STANDARD	0.080	09:01
X[1] = 0.0801 (-0.0015)	(0.0005)	
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.080	09:02
X[1] = 0.0802 (-0.0016)	(0.0005)	
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.080	09:04
X[1] = 0.0803 (-0.0013)	(0.0000)	
BLANK TEST	0.000	09:04

Average = 0.0800  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

DMT: 3.82  
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 = 1.88 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.81 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 536 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

### PUMP INFO

Flow Rate = 4.474 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
(0.002 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.077	(2.63%)	(0.00% - 4.00%)	PASSED
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