

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 05/15/2020  
Effective: 05/15/2020

Version: DMEF 2020 R0  
Status: Active

Instrument # 100424

Start Date: 02/11/21

Analysts: Derek Walton

### Reason for instrument evaluation

Refurbished by manufacturer for filter wheel error

### Visual Inspection

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Clean   | <input checked="" type="checkbox"/> Replace missing screws                |
| <input checked="" type="checkbox"/> Cermetex Box is secure                                    | <input checked="" type="checkbox"/> Ensure modem cable present            |
| <input checked="" type="checkbox"/> Gas Valve upright or secured to wall                      | <input checked="" type="checkbox"/> All tubing and connections are secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag |   |

### Troubleshooting/Repair

Source block is tight, controller board modification present,  
mirror blocks taped, filter wheel assembly feels smooth.

Adjusted lamp and cooler voltages.

- VOC (attached)
- Internal Standard value  $\leq 3.00\%$
- Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

End Date: 02/11/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100424

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/11/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 30.00: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 923 psi

BLANK TEST	0.000	09:39
INTERNAL STANDARD ✓	VERIFIED	09:39
Xq = 0.077 (1.66%)		
EXTERNAL STANDARD	0.082	09:39
X[1] = 0.0817 (-0.0047) (-0.0015)		
BLANK TEST	0.000	09:40
EXTERNAL STANDARD	0.082	09:40
X[1] = 0.0817 (-0.0044) (-0.0017)		
BLANK TEST	0.000	09:41
EXTERNAL STANDARD	0.082	09:42
X[1] = 0.0820 (-0.0042) (-0.0018)		
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.082	09:43
X[1] = 0.0816 (-0.0047) (-0.0009)		
BLANK TEST	0.000	09:44
EXTERNAL STANDARD	0.082	09:44
X[1] = 0.0823 (-0.0036) (-0.0015)		
BLANK TEST	0.000	09:45

Average = 0.0820  
Std Dev = 0.0000

## Diagnostic Check

VERSIONS ✓  
DMT: 3.02 ✓  
PIC: 3.03  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.9°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.70 V	PASSED
(1.03 V - 2.39 V)	
Cooler Voltage = 1.73 V	PASSED
(1.04 V - 2.42 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 508 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

### PUMP INFO

Flow Rate = 5.530 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 ✓	PASSED
Xq = 0.078 0.11% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100424

Date: 02/11/2021  
Time: 09:48:52

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
DEREK WALTON  
OPERATOR'S #: 9508

DEPT/AGENCY:  
NON-DRINKING SUBJECT  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 30.00: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:49
BLANK TEST	0.000	09:50
INTERNAL STANDARD	VERIFIED	09:50
EXTERNAL STANDARD	0.082	09:50
BLANK TEST	0.000	09:51
SUBJECT SAMPLE (Vol=3.34L)	0.000	09:51
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.082	09:53
BLANK TEST	0.000	09:54

