

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF 2020 R0  
Status: Active

Instrument # 100422

Start Date: 02/11/21

Analysts: Derech Walton

### Reason for instrument evaluation

Returbished by manufacturer for unstable detector voltage

### 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.

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

- Return to Factory for Repair
- Ready for Certification

- Ready for Calibration
- Proceed to Close Out

End Date: 02/11/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100422

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/11/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 30.02: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 921 psi

BLANK TEST	0.000	09:47
INTERNAL STANDARD	✓ VERIFIED	09:47
Xq = 0.124 (2.94%)		
EXTERNAL STANDARD	0.082	09:48
X[1] = 0.0822 (-0.0023) (-0.0022)		
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.081	09:49
X[1] = 0.0814 (-0.0033) (-0.0030)		
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.081	09:50
X[1] = 0.0813 (-0.0041) (-0.0025)		
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.082	09:51
X[1] = 0.0818 (-0.0031) (-0.0027)		
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.081	09:52
X[1] = 0.0814 (-0.0005) (-0.0026)		
BLANK TEST	0.000	09:53

Average = 0.0814  
Std Dev = 0.0005

## 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 = 46.0°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.08 V - 2.52 V)	
Cooler Voltage = 1.82 V	PASSED
(1.08 V - 2.52 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 512 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

### PUMP INFO

Flow Rate = 4.939 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 ✓ PASSED  
Xq = 0.123 2.28% (0.00% - 4.00%)

SUBJECT TEST

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100422  
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Date: 02/11/2021  
Time: 10:08:48

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 30.02: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	10:11
BLANK TEST	0.000	10:11
INTERNAL STANDARD	VERIFIED	10:11
EXTERNAL STANDARD	0.081	10:11
BLANK TEST	0.000	10:12
SUBJECT SAMPLE (Vol=2.92L)	0.000	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.081	10:14
BLANK TEST	0.000	10:15

