

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF 2020 R0  
Status: Active

Instrument # 100358

Start Date: 03/25/2021

Analysts: Derek Watton

### Reason for instrument evaluation

Repaired for flow voltage registering on detector, refurbished by manufacturer

### 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

Controller board modification present, filter wheel assembly ~~felt~~ feels appropriate, mirror block 5 taped, source block is tight. DHW 03/25/21

VOC and breath test completed normally. Flow voltage was not registering on the detector as seen before repair.

- 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: 03/26/2021

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100358

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/26/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.70: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 1186 psi

BLANK TEST	0.000	08:15
INTERNAL STANDARD	✓ VERIFIED	08:15
Xq = 0.098 (0.00%)		
EXTERNAL STANDARD	0.080	08:15
X[1] = 0.0799 (-0.0030) (0.0006)		
BLANK TEST	0.000	08:16
EXTERNAL STANDARD	0.079	08:16
X[1] = 0.0794 (-0.0034) (0.0001)		
BLANK TEST	0.000	08:17
EXTERNAL STANDARD	0.080	08:18
X[1] = 0.0798 (-0.0031) (-0.0005)		
BLANK TEST	0.000	08:18
EXTERNAL STANDARD	0.080	08:19
X[1] = 0.0798 (-0.0028) (-0.0002)		
BLANK TEST	0.000	08:20
EXTERNAL STANDARD	0.080	08:20
X[1] = 0.0797 (-0.0030) (-0.0005)		
BLANK TEST	0.000	08:21

Average = 0.0798  
Std Dev = 0.0004

## 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 = 48.0°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.70 V	PASSED
(1.00 V - 2.34 V)	
Cooler Voltage = 1.71 V	PASSED
(1.00 V - 2.32 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 518 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

### PUMP INFO

Flow Rate = 4.815 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
(0.001 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓ PASSED  
Xq = 0.098 0.27% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100358

Date: 03/26/2021  
Time: 08:22:43

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 29.70: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	08:23
BLANK TEST	0.000	08:23
INTERNAL STANDARD	VERIFIED	08:23
EXTERNAL STANDARD	0.080	08:24
BLANK TEST	0.000	08:25
SUBJECT SAMPLE (Vol=3.18L)	0.000	08:25
BLANK TEST	0.000	08:26
EXTERNAL STANDARD	0.081	08:26
BLANK TEST	0.000	08:27

