

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF 2020 R0  
Status: Active

Instrument # 100353

Start Date: 05/13/20 21 <sup>dmw</sup> 05/13/21

Analysts: Derek Walton

Reason for instrument evaluation

Regulator leaking when tank is attached

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

5 way valve sticking. Replaced o-ring. Added modem cable.  
Instrument needs to be refurbished. Recommend return to factory.

Instrument was previously in use as an in-house instrument at the lab DJW 05/17/2021

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

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Return to Factory for Repair | <input type="checkbox"/> Ready for Calibration |
| <input type="checkbox"/> Ready for Certification                 | <input type="checkbox"/> Proceed to Close Out  |

End Date: 05/13/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100353

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/13/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.83: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 438 psi

BLANK TEST	0.000	13:35
INTERNAL STANDARD	✓ VERIFIED	13:35
Xq = 0.093 (1.02%)		
EXTERNAL STANDARD	0.079	13:35
X[1] = 0.0788 (-0.0017) (0.0037)		
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.079	13:36
X[1] = 0.0792 (-0.0020) (0.0028)		
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.079	13:37
X[1] = 0.0793 (-0.0020) (0.0025)		
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.080	13:38
X[1] = 0.0797 (-0.0015) (0.0027)		
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.079	13:39
X[1] = 0.0793 (-0.0018) (0.0017)		
BLANK TEST	0.000	13:40

Average = 0.0792  
Std Dev = 0.0004

## Diagnostic Check

VERSIONS  
DMT: 3.02 ✓  
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 = 2.36 V	PASSED
(1.30 V - 3.04 V)	
Cooler Voltage = 1.90 V	PASSED
(1.26 V - 2.94 V)	
Bias Voltage = 78 V	PASSED
(48 V - 112 V)	
Chopper Freq = 503 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 5.336 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.003 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 = 0.092 1.95% (0.00% - 4.00%)		

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100353

Date: 05/13/2021  
Time: 13:44:25

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 29.84: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	13:46
BLANK TEST	0.000	13:46
INTERNAL STANDARD	VERIFIED	13:46
EXTERNAL STANDARD	0.080	13:46
BLANK TEST	0.000	13:47
SUBJECT SAMPLE (Vol=2.80L)	0.000	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.080	13:48
BLANK TEST	0.000	13:49

*DW*

