

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF 2020 R0  
Status: Active

Instrument # 100385

Start Date: 01/11/21

Analysts: Dereen walton

### Reason for instrument evaluation

Missing records from output to USB, would not upload on checkin

### 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

Replaced Cermetex box - uploads now. Replaced o-ring.

VOC saved to memory normally.

Recalibrated touch screen. Located one breath record and 2 VOCs since 1/1/2020 that the Crime Lab did not receive electronically. Downloaded from ~~DataMaster~~ instrument and uploaded manually.

DJW 01/12/21

- 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: 01/11/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100385

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 1/11/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 28.67: 0.077  
LOT #: AG018102  
EXPIRATION: 6/29/2022  
TANK PRESSURE: 889 psi

BLANK TEST	0.000	08:24
INTERNAL STANDARD	✓ VERIFIED	08:25
Xq = 0.091 (0.48%)		
EXTERNAL STANDARD	0.077	08:25
X[1] = 0.0768 (0.0004) (0.0002)		
BLANK TEST	0.000	08:26
EXTERNAL STANDARD	0.076	08:26
X[1] = 0.0761 (-0.0002) (-0.0002)		
BLANK TEST	0.000	08:27
EXTERNAL STANDARD	0.076	08:27
X[1] = 0.0765 (0.0001) (0.0001)		
BLANK TEST	0.000	08:28
EXTERNAL STANDARD	0.077	08:28
X[1] = 0.0768 (0.0005) (0.0002)		
BLANK TEST	0.000	08:29
EXTERNAL STANDARD	0.076	08:29
X[1] = 0.0759 (0.0004) (0.0001)		
BLANK TEST	0.000	08:30

Average = 0.0764  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.6°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.0°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.62 V	PASSED
(0.94 V - 2.20 V)	
Cooler Voltage = 1.56 V	PASSED
(0.95 V - 2.21 V)	
Bias Voltage = 78 V	PASSED
(47 V - 111 V)	
Chopper Freq = 510 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 28.7 in	

### PUMP INFO

Flow Rate = 4.387 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 = 0.090 1.71% (0.00% - 4.00%)	PASSED
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