

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF 2020 R0  
Status: Active

Instrument # 100691

Start Date: 11/13/20

Analysts: Derck Walton

### Reason for instrument evaluation

Refurbished by factory for repeated freezing

### 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

Mirror blocks taped, controller board jumper installed.

Replaced o-ring. Still freezing intermittently. Noted SD card reformatted during refurbishment. Replaced SD card after printing calibration records. Instrument froze again and produced fatal error on restart. Reinstalled 3.02 software (full version) froze again on restart. Reinstalled old SD card. Completed some ~~my~~ tests without issue.  
11/13/20

- 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: 11/13/20

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100691

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/13/2020

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.06: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 1066 psi

BLANK TEST	0.000	13:23
INTERNAL STANDARD	✓ VERIFIED	13:24
Xq = 0.100 (0.26%)		
EXTERNAL STANDARD	0.078	13:24
X[1] = 0.0781 (0.0004) (0.0006)		
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.078	13:25
X[1] = 0.0781 (0.0009) (-0.0001)		
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.078	13:26
X[1] = 0.0778 (0.0003) (0.0002)		
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.078	13:27
X[1] = 0.0778 (0.0000) (-0.0004)		
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.078	13:28
X[1] = 0.0779 (0.0001) (-0.0002)		
BLANK TEST	0.000	13:29

Average = 0.0780  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.4°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.82 V	PASSED
(1.09 V - 2.55 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 513 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

### PUMP INFO

Flow Rate = 4.961 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 = 0.101 0.09% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100691

Date: 11/13/2020  
Time: 13:31:57

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 29.06: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	13:33
BLANK TEST	0.000	13:33
INTERNAL STANDARD	VERIFIED	13:33
EXTERNAL STANDARD	0.078	13:33
BLANK TEST	0.000	13:34
SUBJECT SAMPLE (Vol=2.43L)	0.000	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.079	13:35
BLANK TEST	0.000	13:36

*DW*

