

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018  
Effective: 04/04/2018

Version: DMEF2018 R0  
Status: Active

Instrument # 100417

Date: 4/21/20

Analyst: C. O. Bryant

1. Reason for instrument evaluation

Returbished by factory - Returned for  
suck back error @ SCAL

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Installed (P.O) Full Version

5. VOC (attached)

6. Internal Standard value  $\leq 3.00\%$  Yes  No

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100417

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/21/2020

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.40: 0.079  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 703 psi

BLANK TEST	0.000	06:22
INTERNAL STANDARD	VERIFIED	06:22
Xq = 0.093 (0.84%)		
EXTERNAL STANDARD	0.078	06:22
X[1] = 0.0775 (-0.0013) (0.0002)		
BLANK TEST	0.000	06:23
EXTERNAL STANDARD	0.077	06:23
X[1] = 0.0775 (-0.0016) (0.0002)		
BLANK TEST	0.000	06:24
EXTERNAL STANDARD	0.078	06:24
X[1] = 0.0777 (-0.0013) (0.0001)		
BLANK TEST	0.000	06:25
EXTERNAL STANDARD	0.078	06:25
X[1] = 0.0778 (-0.0014) (-0.0002)		
BLANK TEST	0.000	06:26
EXTERNAL STANDARD	0.077	06:26
X[1] = 0.0773 (-0.0020) (-0.0001)		
BLANK TEST	0.000	06:27

Average = 0.0776  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.0°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.89 V	PASSED
(1.13 V - 2.65 V)	
Cooler Voltage = 1.89 V	PASSED
(1.13 V - 2.65 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

### PUMP INFO

Flow Rate = 4.908 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 = 0.093 1.21%	PASSED
(0.00% - 4.00%)	