

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF 2020 R0  
Status: Active

Instrument # 100674

Start Date: 7/22/20

Analysts: C. O. Bryant

Reason for instrument evaluation

Screen not functioning properly

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

Rebooted the instrument numerous times  
without the touch screen demonstrating  
issues

Loaded full version of v.02 software

Unable to recreate problem

- 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: 7/22/20

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100674

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/22/2020

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.65: 0.079  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 306 psi

BLANK TEST	0.000	13:00
INTERNAL STANDARD	VERIFIED	13:00
Xq = 0.105 (0.08%)		
EXTERNAL STANDARD	0.076	13:00
X[1] = 0.0764 (-0.0013) (0.0013)		
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.077	13:02
X[1] = 0.0768 (-0.0006) (0.0012)		
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.076	13:03
X[1] = 0.0763 (-0.0014) (0.0007)		
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.077	13:04
X[1] = 0.0769 (-0.0003) (0.0009)		
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.076	13:05
X[1] = 0.0764 (-0.0011) (0.0008)		
BLANK TEST	0.000	13:06

Average = 0.0764  
Std Dev = 0.0005

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.0°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 44.6°C (38.0°C - 50.0°C)	PASSED

### SETTINGS

Lamp Voltage = 1.77 V (1.04 V - 2.44 V)	PASSED
Cooler Voltage = 1.73 V (1.05 V - 2.45 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 529 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.6 in	

### PUMP INFO

Flow Rate = 4.307 L/M (3.500 L/M - 6.500 L/M)	PASSED
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### DETECTOR INFO

PUMP ON (0.001 V <= 0.010 V)	PASSED
PUMP OFF (0.001 V <= 0.010 V)	PASSED

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.104 (0.42%) (0.00% - 4.00%)	PASSED
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