

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100345

Analyst(s): Carlie Glaister

Start Date: 8/23/2022

### Reason for instrument evaluation

High prevalence of standard out of range status message, trending low.

### Visual Inspection

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Clean   | <input checked="" type="checkbox"/> Replace missing screws            |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure                            | <input checked="" type="checkbox"/> Ensure modem cable present        |
| <input checked="" type="checkbox"/> Double Check Valve secured to wall                        | <input checked="" type="checkbox"/> All tubing and connections secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag |   |

### Troubleshooting/Repair

Moved hose clip to opposite side. Replaced o-ring.  
Recommend Calibration due to low trending external standard readings.

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> VOC (attached)                            | <input checked="" type="checkbox"/> Verify software version              |
| <input checked="" type="checkbox"/> VOC Internal Standard value $\leq 3.00\%$ | <input checked="" type="checkbox"/> Non-Drinking Subject Test (attached) |
| <input type="checkbox"/> Return to Factory                                    | <input checked="" type="checkbox"/> Ready for Calibration                |
| <input type="checkbox"/> Ready for Certification                              | <input type="checkbox"/> Proceed to Close Out                            |
| <input type="checkbox"/> Further Evaluation Needed                            |  |

End Date: 8/23/2022

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100345

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/23/2022

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.76: 0.080  
LOT #: AG113402  
EXPIRATION: 05/14/2023  
TANK PRESSURE: 1099 psi

BLANK TEST	0.000	14:42
INTERNAL STANDARD	VERIFIED	14:42
Xq = 0.093 (0.19%)		
EXTERNAL STANDARD	0.076	14:42
X[1] = 0.0765 (-0.0003) (0.0014)		
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.077	14:44
X[1] = 0.0765 (0.0000) (0.0013)		
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.076	14:45
X[1] = 0.0764 (-0.0007) (0.0015)		
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.077	14:46
X[1] = 0.0771 (0.0002) (0.0014)		
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.077	14:47
X[1] = 0.0770 (0.0001) (0.0008)		
BLANK TEST	0.000	14:48

Average = 0.0766  
Std Dev = 0.0005

## 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 = 47.2°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.70 V PASSED  
(0.98 V - 2.30 V)  
Cooler Voltage = 1.64 V PASSED  
(1.06 V - 2.46 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 529 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.137 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

Xq = 0.094 0.56% (0.00% - 4.00%) PASSED

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100345

Date: 08/23/2022  
Time: 14:57:03

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

DEPT/AGENCY:  
NON-DRINKING SUBJECT TEST  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.75: 0.080  
LOT #: AG113402  
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	14:58
BLANK TEST	0.000	14:58
INTERNAL STANDARD	VERIFIED	14:58
EXTERNAL STANDARD	0.076	14:59
BLANK TEST	0.000	15:00
SUBJECT SAMPLE (Vol=2.24L)	0.000	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.077	15:01
BLANK TEST	0.000	15:02

