

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100361

Analyst(s): Carlisle Haister

Start Date: 11/22/2021

### Reason for instrument evaluation

Breath hose not heating to temperature

### 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

Replaced o-ring.  
Breath tube temperature is 45.9°C in Technician  
mode 3 on VOC. Minimum is 38°C. Breath tube  
temperature is normal.  
Reset options due to questions not being asked when  
running a breath test (test type, operator info, etc).

- |   |  |
|---|--|
| <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 type="checkbox"/> Ready for Calibration                           |
| <input checked="" type="checkbox"/> Ready for Certification                   | <input type="checkbox"/> Proceed to Close Out                            |
| <input type="checkbox"/> Further Evaluation Needed                            |  |

End Date: 11/22/2021

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/22/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.20: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 1109 psi

BLANK TEST	0.000	09:25
INTERNAL STANDARD ✓	VERIFIED	09:25
Xq = 0.087 (1.09%)		
EXTERNAL STANDARD	0.077	09:25
X[1] = 0.0771 (-0.0024) (0.0008)		
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.077	09:26
X[1] = 0.0769 (-0.0027) (0.0010)		
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.077	09:28
X[1] = 0.0770 (-0.0030) (0.0005)		
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.078	09:29
X[1] = 0.0775 (-0.0033) (0.0004)		
BLANK TEST	0.000	09:30
EXTERNAL STANDARD	0.077	09:30
X[1] = 0.0769 (-0.0018) (0.0008)		
BLANK TEST	0.000	09:31

Average = 0.0772  
Std Dev = 0.0004

## 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 = 45.9°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.92 V	PASSED
(1.17 V - 2.73 V)	
Cooler Voltage = 1.89 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 517 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

### PUMP INFO

Flow Rate = 4.898 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.003 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 ✓ PASSED  
Xq = 0.087 0.79% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100361

Date: 11/22/2021  
Time: 09:43:59

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 29.20: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:44
BLANK TEST	0.000	09:45
INTERNAL STANDARD	VERIFIED	09:45
EXTERNAL STANDARD	0.078	09:45
BLANK TEST	0.000	09:46
SUBJECT SAMPLE (Vol=2.45L)	0.000	09:46
BLANK TEST	0.000	09:47
EXTERNAL STANDARD	0.078	09:47
BLANK TEST	0.000	09:48

CRG

