

# Alaska Scientific Crime Detection Laboratory

## DataMaster Repair Form

Effective: 10/10/2022

Version: 1.0

Instrument #: 100416

Analyst(s): Carlie Glaister

Start Date: 9/11/2023

### Reason for Repair

Internal standard errors, tank interference on attempted calibration

### Troubleshooting/Repair

Performed a filter wheel test for 10 cycles with 0 errors. Tank interference on 10/12/2022 Breath record, had an elevated filter 2 value. Filter 2 & 3 values are normal on VOC. Internal standard values are normal on VOC. Filter values & internal standard value normal on Non-Drinking subject Test.

Due to previous history, recommend adjustment.

- |  |  |
|--|--|
| <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 checked="" type="checkbox"/> Ready for Adjustment                     | <input type="checkbox"/> Ready for Calibration                           |
| <input type="checkbox"/> Further Repair Needed                               | <input type="checkbox"/> Return to Factory                               |
| <input type="checkbox"/> Proceed to Close Out                                |  |

End Date: 9/11/2023

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Approved by: Chemistry Supervisor

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100416

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/11/2023

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.30: 0.078  
LOT #: AG310901  
EXPIRATION: 04/19/2025  
TANK PRESSURE: 945 psi

BLANK TEST	0.000	12:59
INTERNAL STANDARD	VERIFIED	13:00
Xq = 0.080 (0.22%)		
EXTERNAL STANDARD	0.077	13:00
X[1] = 0.0765 (-0.0011) (-0.0012)		
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.076	13:01
X[1] = 0.0764 (-0.0009) (-0.0004)		
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.076	13:02
X[1] = 0.0764 (-0.0011) (-0.0001)		
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.076	13:03
X[1] = 0.0764 (-0.0009) (-0.0002)		
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.076	13:04
X[1] = 0.0764 (-0.0013) (-0.0002)		
BLANK TEST	0.000	13:05

Average = 0.0762  
Std Dev = 0.0004

## 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 = 42.3°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.58 V	PASSED
(0.95 V - 2.21 V)	
Cooler Voltage = 1.56 V	PASSED
(0.98 V - 2.30 V)	
Bias Voltage = 82 V	PASSED
(49 V - 115 V)	
Chopper Freq = 518 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

### PUMP INFO

Flow Rate = 4.545 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 PASSED

Xq = 0.079 0.22% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100416

Date: 09/11/2023  
 Time: 13:10:59

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 29.30: 0.078

DIAGNOSTIC CHECK	PASSED	13:12
BLANK TEST	0.000	13:12
INTERNAL STANDARD	VERIFIED	13:12
Xg = 0.079 (0.44%)		
EXTERNAL STANDARD	0.076	13:12
X[1] = 0.0764 (-0.0018)	(0.0001)	
BLANK TEST	0.000	13:13
SUBJECT SAMPLE (Vol=2.61L)	0.000	13:13
X[1] = 0.0000 (-0.0004)	(0.00000)	
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.077	13:15
X[1] = 0.0771 (-0.0002)	(0.00000)	
BLANK TEST	0.000	13:15

*CKG*

