

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 6/11/2014  
Effective: 6/11/2014

Version: DMEF2014 R0  
Status: Active

Instrument # 100687

Date: 5/15/15

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Interference detected on the external standard during VOCs and subject tests.

2. Troubleshooting/Repair

Upon troubleshooting @ SCOD the instrument gave the message "undefined error" following the software update. I restarted the instrument and tried to reinstall the software (3.01) as well as reinstall the previous software version (2.00). This was still unsuccessful and still resulted in an undefined error. Instrument would display "undefined error" when attempting to push any button on the home screen.  
I replaced the SI board. I then reset the instrument S/N (due to SI board replacement), updated the software and instrument is ready for calibration.

3. VOC (attached) updated software to 3.01  
SI Board replaced - calibration required - VOC N/A

4. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/29/2014

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.59: 0.079  
LOT #: 09214080A3  
EXPIRATION: 05/01/2016

BLANK TEST 0.000 11:20  
INTERNAL STANDARD VERIFIED 11:20  
Xq = 0.139 (2.57%)  
EXTERNAL STANDARD INTERFERENCE 11:20  
X(1) = 0.0777 (-0.0053) (-0.0023)

Interference Detected

## Diagnostic Check

### VERSIONS

DMT: 2.00  
PIC: 3.02  
Modem: 2.3  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.8°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 44.7°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.64 V PASSED  
(1.08 V - 2.52 V)  
Cooler Voltage = 1.61 V PASSED  
(0.96 V - 2.24 V)  
Bias Voltage = 79 V PASSED  
(47 V - 111 V)  
Chopper Freq = 533 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.6 in

### PUMP INFO

Flow Rate = 4.155 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

(0.00% - 4.00%) PASSED

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- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

\_\_\_\_\_  
Nita J. Bolz  
Scientific Director  
State Breath Alcohol Program

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/29/2014

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.59: 0.079  
LOT #: 09214080A3  
EXPIRATION: 05/01/2016

BLANK TEST	0.000	11:24
INTERNAL STANDARD	VERIFIED	11:24
Xq = 0.139 (2.57%)		
EXTERNAL STANDARD	0.080	11:24
X[1] = 0.0800 (0.0000) (-0.0031)		
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.079	11:25
X[1] = 0.0792 (-0.0019) (-0.0010)		
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.079	11:26
X[1] = 0.0791 (-0.0010) (0.0000)		
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.078	11:28
X[1] = 0.0788 (-0.0013) (-0.0002)		
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.079	11:29
X[1] = 0.0796 (-0.0014) (-0.0009)		
BLANK TEST	0.000	11:30

Average = 0.0790  
Std Dev = 0.0007

## Diagnostic Check

### VERSIONS

DMT: 2.00  
PIC: 3.02  
Modem: 2.3  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.6°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.64 V	PASSED
(1.08 V - 2.52 V)	
Cooler Voltage = 1.61 V	PASSED
(0.96 V - 2.24 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

### PUMP INFO

Flow Rate = 4.148 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.001 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

(0.00% - 4.00%)	PASSED
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Nita J. Bolz  
Scientific Director  
State Breath Alcohol Program

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/03/2015

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 30.37; 0.081  
LOT #: 09214080A3  
EXPIRATION: 05/01/2016

BLANK TEST 0.000 12:02

INTERNAL STANDARD VERIFIED 12:02

Xq = 0.136 (0.46%)

EXTERNAL STANDARD INTERFERENCE 12:02

X[1] = 0.0788 (-0.0048) (-0.0029)

Interference Detected

## Diagnostic Check

### VERSIONS

DMT: 2.00  
PIC: 3.02  
Modem: 2.3  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.8°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 48.1°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.64 V PASSED  
(1.08 V - 2.52 V)  
Cooler Voltage = 1.61 V PASSED  
(0.96 V - 2.24 V)  
Bias Voltage = 79 V PASSED  
(47 V - 111 V)  
Chopper Freq = 539 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 30.4 in

### PUMP INFO

Flow Rate = 4.130 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

(0.00% - 4.00%) PASSED

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State Breath Alcohol Program

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# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/05/2015

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 30.28: 0.080  
LOT #: 09214080A3  
EXPIRATION: 05/01/2016

BLANK TEST	0.000	16:20
INTERNAL STANDARD	VERIFIED	16:20
Xq = 0.138 (2.11%)		
EXTERNAL STANDARD	0.079	16:20
X[1] = 0.0790 (-0.0032) (-0.0020)		
BLANK TEST	0.000	16:21
EXTERNAL STANDARD	0.081	16:21
X[1] = 0.0810 (-0.0020) (-0.0017)		
BLANK TEST	0.000	16:22
EXTERNAL STANDARD	0.081	16:22
X[1] = 0.0816 (-0.0025) (-0.0012)		
BLANK TEST	0.000	16:23
EXTERNAL STANDARD	0.080	16:23
X[1] = 0.0809 (-0.0024) (-0.0012)		
BLANK TEST	0.000	16:24
EXTERNAL STANDARD	0.081	16:24
X[1] = 0.0811 (-0.0021) (-0.0012)		
BLANK TEST	0.000	16:25

Average = 0.0804  
Std Dev = 0.0009

## Diagnostic Check

### VERSIONS

DMT: 2.00  
PIC: 3.02  
Modem: 2.3  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.64 V	PASSED
(1.08 V - 2.52 V)	
Cooler Voltage = 1.61 V	PASSED
(0.96 V - 2.24 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 540 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.3 in	

### PUMP INFO

Flow Rate = 4.344 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.004 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

(0.00% - 4.00%)	PASSED
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# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/27/2015

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.81: 0.079  
LOT #: 09214080A3  
EXPIRATION: 05/01/2016

BLANK TEST 0.000 13:12  
INTERNAL STANDARD VERIFIED 13:13  
Xq = 0.136 (0.59%)  
EXTERNAL STANDARD 0.078 13:13  
X[1] = 0.0786 (-0.0047) (0.0005)  
BLANK TEST 0.000 13:14  
EXTERNAL STANDARD INTERFERENCE 13:14  
X[1] = 0.0786 (-0.0054) (-0.0063)

Interference Detected

## Diagnostic Check

### VERSIONS

DMT: 2.00  
PIC: 3.02  
Modem: 2.3  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.7°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 48.1°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.64 V PASSED  
(1.08 V - 2.52 V)  
Cooler Voltage = 1.61 V PASSED  
(0.96 V - 2.24 V)  
Bias Voltage = 79 V PASSED  
(47 V - 111 V)  
Chopper Freq = 544 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.238 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

(0.00% - 4.00%) PASSED

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