

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMEF2015 R0
Status: Active

Instrument # 100698

Date: 7/12/16

Analyst: CWF

1. Reason for instrument evaluation

Gas flow errors and interference detected on external standards

2. Visual Inspection

3. Troubleshooting/Repair

Gas flow error occurred during attempted VOC

Replaced regulator - no more gas flow errors

Initiated VOCs on 3/11/16 and 3/16/16

External standard filter values were well within range.

4. VOC (attached)

5. Internal Standard value $\leq 3.00\%$ Yes No

6. 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 #: 100698

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/10/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.94: 0.077
LOT #: 01315080A3
EXPIRATION: 02/05/2017
TANK PRESSURE: 222 psi

BLANK TEST 0.000 13:39
INTERNAL STANDARD VERIFIED 13:39

Gas Flow Error

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.740 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

PASSED

*old
regulator*

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100698

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/11/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.12: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017
TANK PRESSURE: 217 psi

BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
Xq = 0.115 (0.08%)		
EXTERNAL STANDARD	0.078	14:50
X[1] = 0.0783 (-0.0019) (-0.0005)		
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.078	14:51
X[1] = 0.0779 (-0.0007) (-0.0003)		
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.078	14:52
X[1] = 0.0782 (-0.0013) (-0.0008)		
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.078	14:53
X[1] = 0.0782 (-0.0017) (-0.0008)		
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.078	14:54
X[1] = 0.0779 (-0.0015) (-0.0006)		
BLANK TEST	0.000	14:55

Average = 0.0780
Std Dev = 0.0000

*New
regulator*

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
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 = 1.65 V	PASSED
(0.99 V - 2.31 V)	
Cooler Voltage = 1.67 V	PASSED
(1.00 V - 2.34 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 522 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

PUMP INFO

Flow Rate = 4.656 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 = 0.114 0.92% (0.00% - 4.00%)	

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100698

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/16/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 01315080A3
EXPIRATION: 02/05/2017
TANK PRESSURE: 203 psi

BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
Xq = 0.116 (0.46%)		
EXTERNAL STANDARD	0.081	14:50
X[1] = 0.0808 (0.0009) (0.0013)		
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.080	14:52
X[1] = 0.0802 (-0.0004) (0.0010)		
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.080	14:53
X[1] = 0.0799 (-0.0007) (0.0010)		
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.080	14:54
X[1] = 0.0800 (-0.0001) (0.0010)		
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.080	14:55
X[1] = 0.0800 (-0.0004) (0.0011)		
BLANK TEST	0.000	14:56

Average = 0.0802
Std Dev = 0.0004

*New
regulator*

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
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 = 1.65 V	PASSED
(0.99 V - 2.31 V)	
Cooler Voltage = 1.67 V	PASSED
(1.00 V - 2.34 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

PUMP INFO

Flow Rate = 4.862 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

Xq = 0.115 0.38%	PASSED
(0.00% - 4.00%)	