

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 6/27/2017
Effective: 7/3/2017

Version: DMEF2017 R0
Status: Active

Instrument # 100420

Date: 7/7/17

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Tank pressure reading 0 psi in field

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

O-ring for regulator missing - replaced

Two tanks installed with no problems reading tank pressure.

5. VOC (attached)

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

7. 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 #: 100420

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/07/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.84: 0.080
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 860 psi

BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:52
EXTERNAL STANDARD	0.080	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.080	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.079	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.080	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.080	14:57
BLANK TEST	0.000	14:58

Average = 0.0798
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 47.1°C PASSED

PUMP INFO

Flow Rate = 4.933 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

Tank 1

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100420

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/12/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.81: 0.080
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 591 psi

BLANK TEST	0.000	09:05
INTERNAL STANDARD	VERIFIED	09:05
EXTERNAL STANDARD	0.080	09:05
BLANK TEST	0.000	09:06
EXTERNAL STANDARD	0.079	09:06
BLANK TEST	0.000	09:07
EXTERNAL STANDARD	0.080	09:08
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.079	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.080	09:10
BLANK TEST	0.000	09:11

Average = 0.0796
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
Breath Tube = 47.2°C PASSED

PUMP INFO

Flow Rate = 4.916 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

Tank #2

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100420

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/12/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.81: 0.080
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 591 psi

BLANK TEST	0.000	09:05
INTERNAL STANDARD	VERIFIED	09:05
Xq = 0.078 (1.53%)		
EXTERNAL STANDARD	0.080	09:05
X[1] = 0.0799 (0.0018) (-0.0002)		
BLANK TEST	0.000	09:06
EXTERNAL STANDARD	0.079	09:06
X[1] = 0.0794 (-0.0020) (0.0010)		
BLANK TEST	0.000	09:07
EXTERNAL STANDARD	0.080	09:08
X[1] = 0.0798 (-0.0006) (0.0014)		
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.079	09:09
X[1] = 0.0794 (-0.0015) (0.0007)		
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.080	09:10
X[1] = 0.0795 (-0.0006) (0.0004)		
BLANK TEST	0.000	09:11

Average = 0.0796
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 = 1.89 V	PASSED
(1.10 V - 2.58 V)	
Cooler Voltage = 1.66 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 544 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 4.916 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 = 0.079	0.44%	(0.00% - 4.00%)	PASSED
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