

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100678

Date: 07/30/2018

Analyst: Derek Walter

1. Reason for instrument evaluation

Instrument freezing in field, could not upload via modem line on check in.

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Replaced o-ring. Detector voltage steady at 0.5 V.

Replaced modem board - uploaded via modem line successfully.

Updated software to 3.02 (full version)

Instrument has noisy regulator - replaced. New regulator sounds normal.

Did not experience instrument freezing during troubleshooting.

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

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100678

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/30/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.05: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 363 psi

BLANK TEST	0.000	13:17
INTERNAL STANDARD	VERIFIED	13:17
Xq = 0.083	(1.38%)	
EXTERNAL STANDARD	0.079	13:18
X[1] = 0.0789 (0.0002)	(0.0039)	
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.079	13:19
X[1] = 0.0785 (-0.0004)	(0.0022)	
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.079	13:20
X[1] = 0.0794 (0.0002)	(0.0028)	
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.079	13:21
X[1] = 0.0787 (0.0007)	(0.0046)	
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.079	13:22
X[1] = 0.0786 (0.0008)	(0.0033)	
BLANK TEST	0.000	13:23

Average = 0.0790
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.5°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.58 V	PASSED
(0.98 V - 2.29 V)	
Cooler Voltage = 1.55 V	PASSED
(0.99 V - 2.31 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

PUMP INFO

Flow Rate = 4.920 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
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.082	(0.21%)	PASSED
(0.00% - 4.00%)		

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 07/30/2018
Time: 13:45:53

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

DEPT/AGENCY:
NON-DRINKING SUBJECT
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.05: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	13:47
BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
INTERNAL STANDARD	0.079	13:47
BLANK TEST	0.000	13:48
SUBJECT SAMPLE (Vol=2.34L)	0.000	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.080	13:49
BLANK TEST	0.000	13:50

DW

