

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 08/08/2017
Effective: 08/10/2017

Version: DMEF2017 R1
Status: Active

Instrument # 100351

Date: 3/21/18

Analyst: Colleen OBryant

1. Reason for instrument evaluation

Detector overflow seen on in field instrument review.

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

See prior evaluation for adjustments to lamp and cooler voltages by Chuck Foster.

Instrument used for training at ASD academy without issue.

The evaluation VOC was performed following the completion of the certification (3/20/18)

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 #: 100351

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/20/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.00: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 852 psi

BLANK TEST	0.000	15:26
INTERNAL STANDARD	VERIFIED	15:26
Xq = 0.113	(0.31%)	
EXTERNAL STANDARD	0.081	15:26
X[1] = 0.0807 (-0.0002)	(0.0017)	
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.081	15:27
X[1] = 0.0806 (-0.0001)	(0.0016)	
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.081	15:29
X[1] = 0.0806 (-0.0007)	(0.0007)	
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.081	15:30
X[1] = 0.0805 (-0.0008)	(0.0014)	
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.081	15:31
X[1] = 0.0807 (-0.0007)	(0.0016)	
BLANK TEST	0.000	15:32

Average = 0.0810
Std Dev = 0.0000

Diagnostic Check

VERSIONS

DMP: 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 = 44.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.87 V	PASSED
(1.10 V - 2.58 V)	
Cooler Voltage = 1.81 V	PASSED
(1.13 V - 2.63 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 537 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 30.0 in	

PUMP INFO

Flow Rate = 4.691 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

Xq = 0.113	0.23%	(0.00% - 4.00%)	PASSED
------------	-------	-----------------	--------