

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100380

Date: 11/02/18

Analyst: Derek Watten

1. Reason for instrument evaluation

Tank interference messages, blank errors

2. Visual Inspection

- Clean
- Cermetex Box is secure
- Gas Valve upright or secured to wall
- Replace missing screws
- Ensure modem cable present
- All tubing and connections are secure

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

4. Troubleshooting/Repair

Added modem cable. Routed the filter wires separately.

VOC and subject tests completed normally. Tank interference and blank errors not encountered during evaluation.

5. VOC (attached)

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

7. Verify software version

- Return to Factory for Repair
- Ready for Certification
- Ready for Calibration
- Proceed to Close Out

DW 11/15/18

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100380

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/02/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.39: 0.079
LOT #: AG735001
EXPIRATION: 12/16/2019
TANK PRESSURE: 571 psi

BLANK TEST 0.000 14:45
INTERNAL STANDARD VERIFIED 14:45
Xq = 0.085 (0.21%)
EXTERNAL STANDARD 0.078 14:45
X[1] = 0.0782 (-0.0005) (-0.0030)
BLANK TEST 0.000 14:45
EXTERNAL STANDARD 0.078 14:46
X[1] = 0.0782 (-0.0008) (-0.0027)
BLANK TEST 0.000 14:47
EXTERNAL STANDARD 0.078 14:48
X[1] = 0.0783 (-0.0003) (-0.0030)
BLANK TEST 0.000 14:48
EXTERNAL STANDARD 0.078 14:49
X[1] = 0.0779 (-0.0007) (-0.0026)
BLANK TEST 0.000 14:50
EXTERNAL STANDARD 0.078 14:50
X[1] = 0.0780 (-0.0004) (-0.0032)
BLANK TEST 0.000 14:51

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.61 V PASSED
(0.97 V - 2.25 V)
Cooler Voltage = 1.56 V PASSED
(0.95 V - 2.23 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 526 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.717 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 = 0.085 (0.51%) (0.00% - 4.00%) PASSED

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 11/02/2018
Time: 15:06:50

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 29.38: 0.079
LOT #: AG735001
EXPIRATION: 12/16/2019

DIAGNOSTIC CHECK	PASSED	15:09
BLANK TEST	0.000	15:09
INTERNAL STANDARD	VERIFIED	15:09
Xg = 0.086 (0.82%)		
EXTERNAL STANDARD	0.079	15:09
X[1] = 0.0786 (-0.0003)	(-0.0017)	
BLANK TEST	0.000	15:10
SUBJECT SAMPLE (Vol=2.13L)	0.000	15:10
X[1] = 0.0005 (-0.0033)	(-0.0007)	
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.079	15:12
X[1] = 0.0788 (0.0000)	(-0.0017)	
BLANK TEST	0.000	15:13
SUBJECT SAMPLE (Vol=2.50L)	0.000	15:13
X[1] = 0.0003 (-0.0026)	(-0.0008)	
BLANK TEST	0.000	15:14
EXTERNAL STANDARD	0.079	15:14
X[1] = 0.0788 (-0.0004)	(-0.0015)	
BLANK TEST	0.000	15:15
SUBJECT SAMPLE (Vol=2.56L)	0.000	15:16
X[1] = 0.0003 (-0.0022)	(-0.0003)	
BLANK TEST	0.000	15:17
EXTERNAL STANDARD	0.079	15:17

B.

