

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMEF 2020 R0
Status: Active

Instrument # 100680 ¹⁰⁰⁶⁸² ~~10066~~ DM 06/03/20

Start Date: 06/02/20

Analysts: Derek Walter

Reason for instrument evaluation

Instrument Freezing

Visual Inspection

- | | |
|---|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermetex Box is secure | <input checked="" type="checkbox"/> Ensure modem cable present |
| <input checked="" type="checkbox"/> Gas Valve upright or secured to wall | <input checked="" type="checkbox"/> All tubing and connections are secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag | |

Troubleshooting/Repair

Replaced o-ring. Instrument dusty inside - sprayed out with
canned air. Installed full version of 3.02 software.

Checked various options within software which appeared to
operate normally. Recalibrated stylus.

VOC and breath test completed normally.

- VOC (attached)
- Internal Standard value $\leq 3.00\%$
- Verify software version

- Return to Factory for Repair
- Ready for Certification

- Ready for Calibration
- Proceed to Close Out

End Date: 06/02/20

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100682

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/02/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.45: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 425 psi

BLANK TEST	0.000	17:04
INTERNAL STANDARD	✓ VERIFIED	17:04
Xq = 0.093 (0.28%)		
EXTERNAL STANDARD	0.076	17:04
X[1] = 0.0763 (0.0000) (0.0034)		
BLANK TEST	0.000	17:05
EXTERNAL STANDARD	0.076	17:05
X[1] = 0.0764 (-0.0004) (0.0027)		
BLANK TEST	0.000	17:06
EXTERNAL STANDARD	0.076	17:06
X[1] = 0.0762 (-0.0009) (0.0026)		
BLANK TEST	0.000	17:07
EXTERNAL STANDARD	0.076	17:07
X[1] = 0.0765 (-0.0003) (0.0025)		
BLANK TEST	0.000	17:08
EXTERNAL STANDARD	0.077	17:09
X[1] = 0.0766 (-0.0012) (0.0017)		
BLANK TEST	0.000	17:09

Average = 0.0762
Std Dev = 0.0004

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 = 47.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 2.24 V	PASSED
(1.36 V - 3.18 V)	
Cooler Voltage = 1.71 V	PASSED
(1.04 V - 2.44 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 535 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.751 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	✓	PASSED
Xq = 0.092	0.38%	(0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100682

Date: 06/02/2020
 Time: 17:13:27

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 29.45: 0.079
 LOT #: AG826101
 EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	17:14
BLANK TEST	0.000	17:14
INTERNAL STANDARD	VERIFIED	17:14
Xq = 0.092 (0.19%)		
EXTERNAL STANDARD	0.076	17:15
X[1] = 0.0759 (-0.0008)	(0.0030)	
BLANK TEST	0.000	17:15
SUBJECT SAMPLE (Vol=2.89L)	0.000	17:16
X[1] = 0.0000 (0.0000)	(0.0000)	
BLANK TEST	0.000	17:17
EXTERNAL STANDARD	0.077	17:17
X[1] = 0.0768 (-0.0002)	(0.0025)	
BLANK TEST	0.000	17:18

DW

