

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100373

Start Date: 03/23/21

Analysts: Derek Walton

Reason for instrument evaluation

Preventive maintenance due

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

Added modem cable. Routed filter wires separately.

Instrument has not been refurbished. Recommend return to factory for refurbishment.

- | | |
|---|--|
| <input checked="" type="checkbox"/> VOC (attached) | |
| <input checked="" type="checkbox"/> Internal Standard value $\leq 3.00\%$ | |
| <input checked="" type="checkbox"/> Verify software version | |
| <input checked="" type="checkbox"/> Return to Factory for Repair | <input type="checkbox"/> Ready for Calibration |
| <input type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |

End Date: 03/23/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100373

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/23/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 886 psi

BLANK TEST	0.000	11:27
INTERNAL STANDARD	✓ VERIFIED	11:27
Xq = 0.083 (1.50%)		
EXTERNAL STANDARD	0.076	11:27
X[1] = 0.0764 (-0.0012) (0.0038)		
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.077	11:28
X[1] = 0.0768 (-0.0021) (0.0029)		
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.077	11:29
X[1] = 0.0768 (-0.0024) (0.0028)		
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.077	11:30
X[1] = 0.0770 (-0.0024) (0.0028)		
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.077	11:31
X[1] = 0.0770 (-0.0020) (0.0027)		
BLANK TEST	0.000	11:32

Average = 0.0768
Std Dev = 0.0004

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 = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.69 V	PASSED
(1.03 V - 2.39 V)	
Cooler Voltage = 1.69 V	PASSED
(0.97 V - 2.25 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 531 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.739 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	0.43%	✓ (0.00% - 4.00%)
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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 03/23/2021
Time: 11:33:44

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 29.75: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	11:34
BLANK TEST	0.000	11:34
INTERNAL STANDARD	VERIFIED	11:34
EXTERNAL STANDARD	0.077	11:35
BLANK TEST	0.000	11:36
SUBJECT SAMPLE (Vol=2.34L)	0.000	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.078	11:37
BLANK TEST	0.000	11:38

DM

Alcohol(g/210L)
Flow Rate(L/M)
Min. Flow Rate(L/M)

