

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100365

Start Date: 04/12/21

Analysts: Derek Walton

Reason for instrument evaluation

Refurbished by manufacturer, repaired for gas flow errors

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

Mirror blocks taped, 5 way valve feels smooth, filter wheel assembly feels appropriate, controller board modification present.

Source block was loose - tightened. Adjusted lamp and cooler voltages.

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

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

End Date: 04/12/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/12/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 767 psi

BLANK TEST	0.000	15:25
INTERNAL STANDARD	✓ VERIFIED	15:26
Xq = 0.097 (1.08%)		
EXTERNAL STANDARD	0.079	15:26
X[1] = 0.0791 (-0.0019) (0.0015)		
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.079	15:27
X[1] = 0.0791 (-0.0023) (0.0013)		
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.079	15:28
X[1] = 0.0792 (-0.0026) (0.0011)		
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.079	15:29
X[1] = 0.0794 (-0.0023) (0.0013)		
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.079	15:30
X[1] = 0.0794 (-0.0023) (0.0014)		
BLANK TEST	0.000	15:31

Average = 0.0790
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 43.6°C (38.0°C - 50.0°C)	PASSED

SETTINGS

Lamp Voltage = 1.83 V (1.13 V - 2.65 V)	PASSED
Cooler Voltage = 1.84 V (1.10 V - 2.58 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 526 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 5.115 L/M (3.500 L/M - 6.500 L/M)	PASSED
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DETECTOR INFO

PUMP ON (0.002 V <= 0.010 V)	PASSED
PUMP OFF (0.001 V <= 0.010 V)	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	✓	PASSED
Xq = 0.097	0.99%	(0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 04/12/2021
Time: 15:33:05

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 29.69: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 15:34
BLANK TEST 0.000 15:34
INTERNAL STANDARD VERIFIED 15:34
EXTERNAL STANDARD 0.080 15:34
BLANK TEST 0.000 15:35
SUBJECT SAMPLE (Vol=3.07L) 0.000 15:35
BLANK TEST 0.000 15:36
EXTERNAL STANDARD 0.080 15:36
BLANK TEST 0.000 15:37

