

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100342

Start Date: 08/18/21

Analysts: Derch waton

Reason for instrument evaluation

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

Instrument was previously refurbished. Replaced O-ring.
Got another gas flow error on VOC. Replaced the double check valve.
No further gas flow errors observed after replacement.

VOC and breath test completed normally.

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

- | | |
|-------------------------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> Return to Factory for Repair | <input type="checkbox"/> Ready for Calibration |
| <input checked="" type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |

End Date: 08/18/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100342

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date:08/18/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 703 psi

BLANK TEST 0.000 12:44
INTERNAL STANDARD VERIFIED 12:44

Gas Flow Error

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.1°C PASSED
Breath Tube = 47.1°C PASSED

PUMP INFO

Flow Rate = 4.215 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

PASSED

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of DataMaster dmt Breath Test Instrument

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External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 705 psi

BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:54
EXTERNAL STANDARD	0.078	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.077	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.078	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.078	12:58
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.078	12:59
BLANK TEST	0.000	13:00

Average = 0.0778
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.6°C	PASSED
Breath Tube = 46.8°C	PASSED

PUMP INFO

Flow Rate = 4.168 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100342

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/18/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 677 psi

BLANK TEST	0.000	13:04
INTERNAL STANDARD ✓	VERIFIED	13:04
Xq = 0.082 (0.42%)		
EXTERNAL STANDARD	0.078	13:04
X[1] = 0.0780 (-0.0012) (0.0002)		
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.078	13:05
X[1] = 0.0775 (-0.0026) (-0.0020)		
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.078	13:06
X[1] = 0.0778 (-0.0022) (-0.0010)		
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.078	13:07
X[1] = 0.0778 (-0.0023) (-0.0005)		
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.078	13:08
X[1] = 0.0782 (-0.0017) (-0.0014)		
BLANK TEST	0.000	13:09

Average = 0.0780
Std Dev = 0.0000

Diagnostic Check

VERSIONS ✓
DMT: 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 = 45.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.65 V	PASSED
(0.99 V - 2.31 V)	
Cooler Voltage = 1.61 V	PASSED
(0.97 V - 2.25 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 524 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.249 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓	PASSED
Xq = 0.082 0.00% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 08/18/2021
Time: 13:11:39

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 29.72: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	13:12
BLANK TEST	0.000	13:12
INTERNAL STANDARD	VERIFIED	13:12
EXTERNAL STANDARD	0.078	13:13
BLANK TEST	0.000	13:14
SUBJECT SAMPLE (Vol=2.90L)	0.000	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.079	13:15
BLANK TEST	0.000	13:16

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