

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100255

Analyst(s): Carlie Haister

Start Date: 7/11/2022

Reason for instrument evaluation

Filter Wheel Errors

Visual Inspection

Clean

Replace missing screws

Cermetex Box (modem) is secure

Ensure modem cable present

Double Check Valve secured to wall

All tubing and connections secure

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

Troubleshooting/Repair

Replaced o-ring.
Filter wheel spun normally. Filter wheel spring/pin
seemed slightly stuck when adding pressure to it.
After pressing up & down a few times it seemed
to move normally. Ran a filter wheel test, 5 errors
in 39 cycles.

Further evaluation on filter wheel needed.

VOC (attached)

Verify software version

VOC Internal Standard value $\leq 3.00\%$

Non-Drinking Subject Test (attached)

Return to Factory

Ready for Calibration

Ready for Certification

Proceed to Close Out

Further Evaluation Needed

End Date: 7/11/2022

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Approved by: Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100255

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/11/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.50: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 539 psi

BLANK TEST	0.000	10:02
INTERNAL STANDARD	VERIFIED	10:02
Xq = 0.078 (1.13%)		
EXTERNAL STANDARD	0.077	10:02
X[1] = 0.0773 (0.0000) (0.0020)		
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.077	10:03
X[1] = 0.0774 (0.0005) (0.0019)		
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.077	10:04
X[1] = 0.0773 (0.0002) (0.0014)		
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.077	10:05
X[1] = 0.0770 (-0.0003) (0.0012)		
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.077	10:06
X[1] = 0.0771 (-0.0003) (0.0016)		
BLANK TEST	0.000	10:07

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS
DMT: 3.02
PIC: 2.05
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.61 V	PASSED
(0.97 V - 2.25 V)	
Cooler Voltage = 1.64 V	PASSED
(0.95 V - 2.23 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 520 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.485 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
(0.001 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD PASSED

Xq = 0.077 0.45% (0.00% - 4.00%)

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100255

Date: 07/11/2022
Time: 10:18:01

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
NON-DRINKING SUBJECT TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL:	0.080	PASSED	10:19
TARGET AT 29.48:	0.079	0.000	10:19
LOT #: AG113402		VERIFIED	10:19
EXPIRATION: 05/14/2023		0.077	10:19
		0.000	10:20
		0.000	10:21
		0.000	10:21
		0.078	10:22
		0.000	10:22

DIAGNOSTIC CHECK	PASSED	10:19
BLANK TEST	0.000	10:19
INTERNAL STANDARD	VERIFIED	10:19
EXTERNAL STANDARD	0.077	10:19
BLANK TEST	0.000	10:20
SUBJECT SAMPLE (Vol=2.57L)	0.000	10:21
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.078	10:22
BLANK TEST	0.000	10:22

