

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 08/08/2017
Effective: 08/10/2017

Version: DMEF2017 R1
Status: Active

Instrument # 100348

Date: 04/03/18

Analyst: Derek Walton / Brandi Barnett

1. Reason for instrument evaluation

Sticky 5 way valve

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Replaced 5 way valve

New 5-way valve still sticking periodically

VOC not performed - instrument needs additional maintenance.

① Refer to second evaluation and repair performed on 09/19/2018
dm 10/01/18

5. VOC (attached) dm 10/01/18

6. Internal Standard value $\leq 3.00\%$ Yes No

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100348

Date: 09/19/18

Analyst: Derek Walton

1. Reason for instrument evaluation

Sticky 5 way valve, still sticking after replacement on 04/03/18

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

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

4. Troubleshooting/Repair

Routed filter wires separately from quartz, chopper, stepper, etc.

Replaced 5 way valve. VOC ran normally.

External standard values 0.005 low.

Ran 6 non-drinking subject tests - 5 way valve sticking not encountered.

5. VOC (attached)

6. Internal Standard value $\leq 3.00\%$ Yes No

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100348

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/19/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.88: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 712 psi

BLANK TEST	0.000	15:52
INTERNAL STANDARD	VERIFIED	15:52
Xq = 0.089	(0.89%)	
EXTERNAL STANDARD	0.075	15:53
X[1] = 0.0750 (-0.0004)	(0.0029)	
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.075	15:54
X[1] = 0.0749 (-0.0011)	(0.0028)	
BLANK TEST	0.000	15:55
EXTERNAL STANDARD	0.075	15:55
X[1] = 0.0751 (-0.0009)	(0.0021)	
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.076	15:56
X[1] = 0.0756 (-0.0004)	(0.0017)	
BLANK TEST	0.000	15:57
EXTERNAL STANDARD	0.075	15:57
X[1] = 0.0751 (-0.0008)	(0.0020)	
BLANK TEST	0.000	15:58

Average = 0.0752
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 47.3°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.68 V	PASSED
(1.04 V - 2.44 V)	
Cooler Voltage = 1.74 V	PASSED
(0.98 V - 2.30 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

PUMP INFO

Flow Rate = 4.575 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

Xq = 0.088	(1.36%)	(0.00% - 4.00%)	PASSED
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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

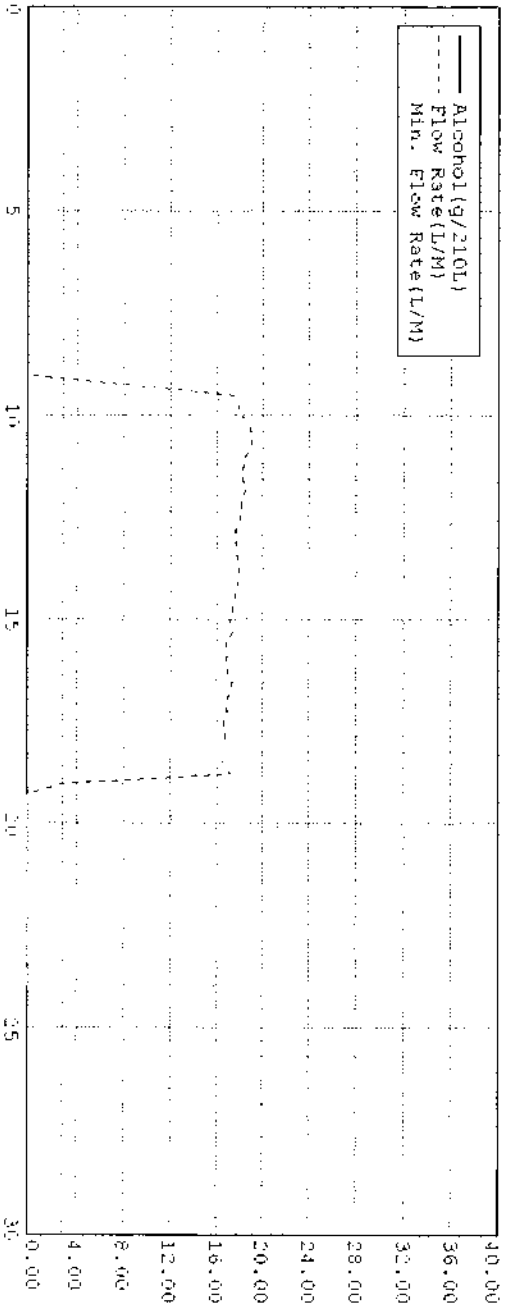
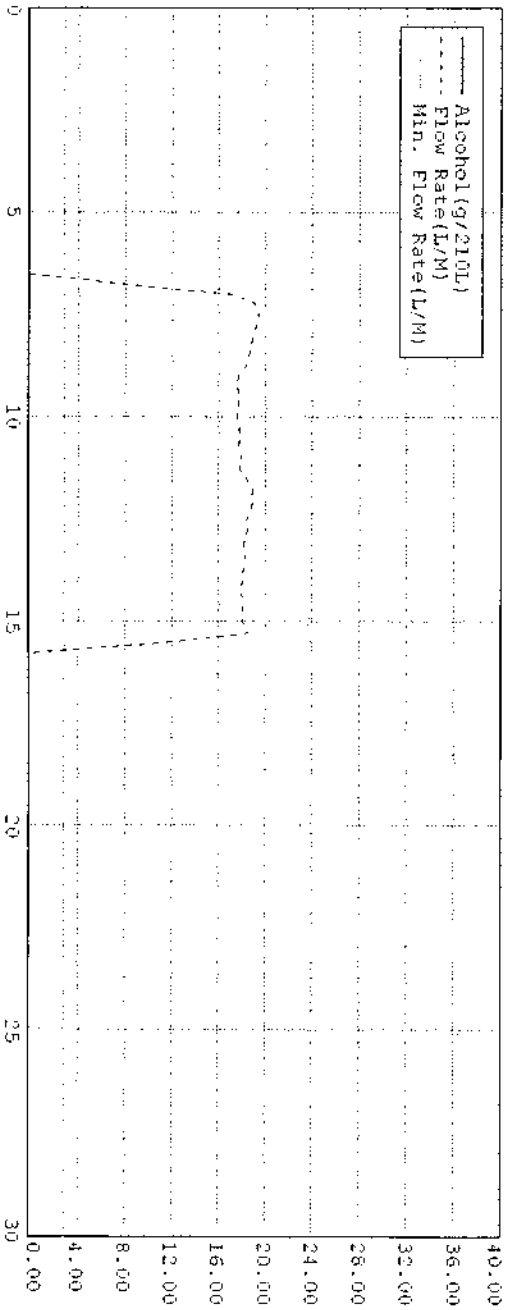
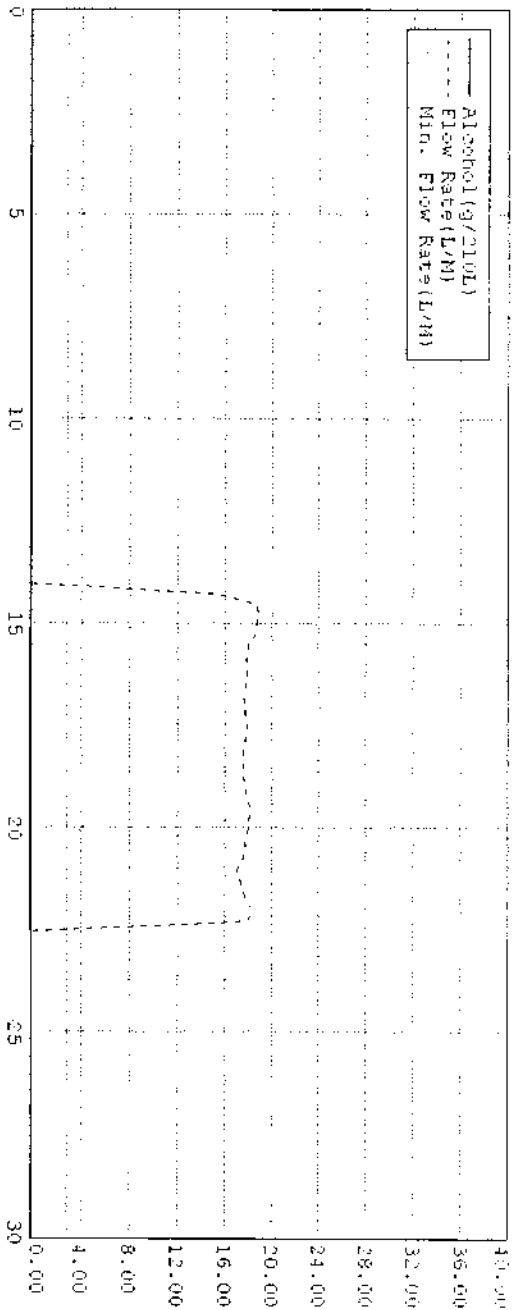
Date: 09/20/2018
Time: 10:10:46

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

DIAGNOSTIC CHECK	PASSED	10:11
BLANK TEST	0.000	10:11
INTERNAL STANDARD	VERIFIED	10:11
SUBJECT SAMPLE (Vol=2.46L)	0.000	10:12
BLANK TEST	0.000	10:13
SUBJECT SAMPLE (Vol=2.68L)	0.000	10:13
BLANK TEST	0.000	10:14
SUBJECT SAMPLE (Vol=2.85L)	0.000	10:15
BLANK TEST	0.000	10:15



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 09/20/2018
Time: 10:19:58

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 29.86: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	10:22
BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:22
EXTERNAL STANDARD	0.075	10:22
BLANK TEST	0.000	10:23
SUBJECT SAMPLE (Vol=2.72L)	0.000	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.076	10:25
BLANK TEST	0.000	10:26
SUBJECT SAMPLE (Vol=2.67L)	0.000	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.076	10:27
BLANK TEST	0.000	10:28
SUBJECT SAMPLE (Vol=2.62L)	0.000	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.076	10:30
BLANK TEST	0.000	10:31

