

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMEF2015 R0
Status: Active

Instrument # 100395

Date: 7/13/16

Analyst: Brandi Barnett
Colleen OByant 7/16

1. Reason for instrument evaluation

Datamaster not accepting sample + broken collar
on breath hose

2. Visual Inspection

3. Troubleshooting/Repair

Replaced Breath Hose

5-way valve sticking

Set screw was loose. Reset it and valve was
still sticking.

Replaced 5-way valve and o-ring on regulator.
as well as tubing from check valve to valve.

Ran evaluation VOC and a subject test with
a 0.100 simulator. COB 7/16 + 7/16
COB

Additional testing (supernova test and second 0.100
simulator) completed w/out issue. COB 7/16

4. VOC (attached)

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

6. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100395

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/07/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.88: 0.077
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 671 psi

BLANK TEST	0.000	14:00
INTERNAL STANDARD	VERIFIED	14:00
Xq = 0.090 (0.19%)		
EXTERNAL STANDARD	0.077	14:00
X[1] = 0.0763 (-0.0020) (-0.0021)		
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.076	14:02
X[1] = 0.0764 (-0.0023) (-0.0013)		
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.076	14:03
X[1] = 0.0759 (-0.0026) (-0.0011)		
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.076	14:04
X[1] = 0.0758 (-0.0034) (-0.0013)		
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.076	14:05
X[1] = 0.0761 (-0.0029) (-0.0012)		
BLANK TEST	0.000	14:06

Average = 0.0762
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.2°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.80 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.67 V	PASSED
(1.03 V - 2.41 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 522 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 28.9 in	

PUMP INFO

Flow Rate = 4.339 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.089	0.87%	(0.00% - 4.00%)	PASSED
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past 5-way valve replacement 11/7/16 CBS

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100395

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/22/2016

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.23: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 573 psi

BLANK TEST	0.000	10:50
INTERNAL STANDARD	VERIFIED	10:50
Xq = 0.090 (0.00%)		
EXTERNAL STANDARD	0.077	10:50
X[1] = 0.0768 (-0.0024) (0.0012)		
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.076	10:51
X[1] = 0.0764 (-0.0029) (0.0009)		
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.077	10:52
X[1] = 0.0771 (-0.0021) (0.0007)		
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.077	10:54
X[1] = 0.0768 (-0.0034) (0.0008)		
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.077	10:55
X[1] = 0.0774 (-0.0014) (0.0007)		
BLANK TEST	0.000	10:56

Average = 0.0768
Std Dev = 0.0004

Diagnostic Check

VERSIONS

EMT: 3.02
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.80 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.67 V	PASSED
(1.03 V - 2.41 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 536 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.376 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.090 0.10%	PASSED
(0.00% - 4.00%)	

*Additional VOC post 5-way valve replacement
11/22/16 cas*

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 11/22/2016
Time: 10:58:43

SUBJECT NAME:
TEST TEST
LICENSE #: 0.100 SIM

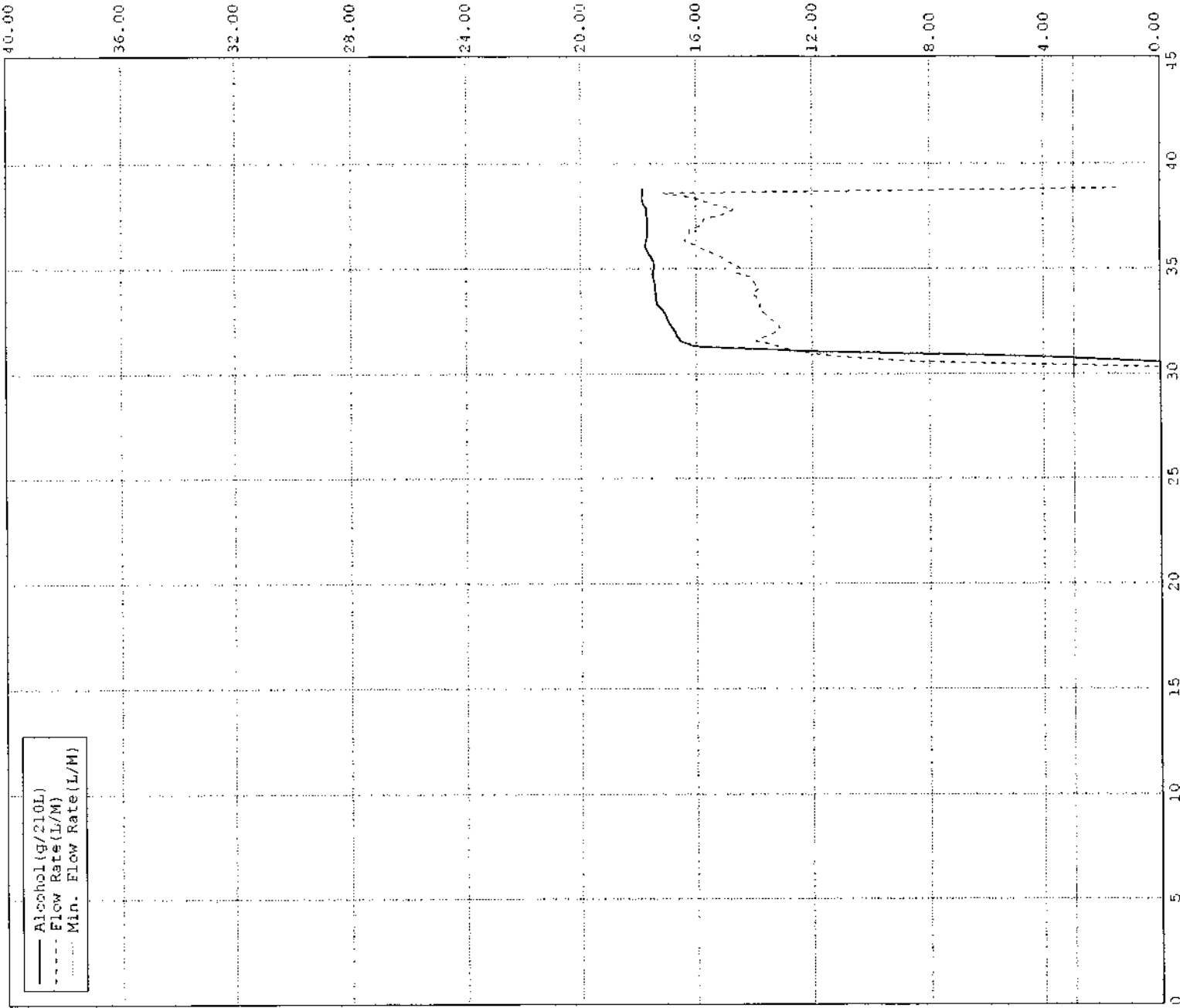
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.090
TARGET AT 29.23: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	11:02
BLANK TEST	0.000	11:03
INTERNAL STANDARD	VERIFIED	11:03
EXTERNAL STANDARD	0.077	11:03
BLANK TEST	0.000	11:04
SUBJECT SAMPLE (Vol=1.97L)	0.089	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.077	11:06
BLANK TEST	0.000	11:07



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 11/22/2016
Time: 14:33:36

SUBJECT NAME:
TEST TEST
LICENSE #: 0.100 SIM

OPERATOR NAME:
COLLEEN S OEBRYANT
OPERATOR'S #: 6237

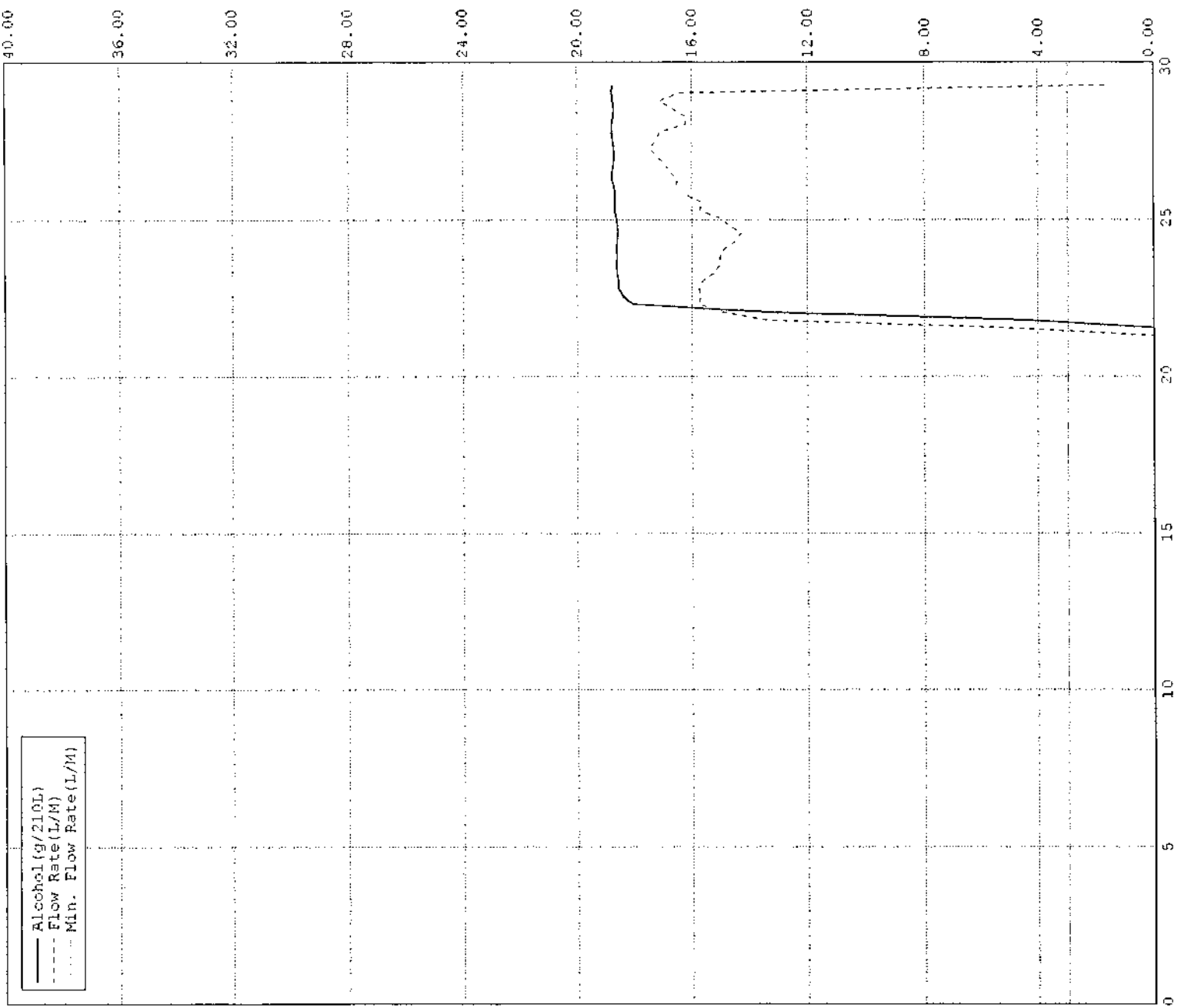
DEPT/AGENCY:
AAA1
CASE/REPORT: 16-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.19: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	14:35
BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
EXTERNAL STANDARD	0.077	14:36
BLANK TEST	0.000	14:37
SUBJECT SAMPLE (Vol=2.0IL)	0.094	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.077	14:40
BLANK TEST	0.000	14:41

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SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100395

Date: 11/22/2016
 Time: 14:44:22

SUPERVISOR NAME:
 COLLEEN S OBYRANT
 OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.18: 0.078
 LOT #: AG608504
 EXPIRATION: 03/25/2018
 TANK PRESSURE: 539 psi

BLANK TEST	0.000	14:47
INTERNAL STANDARD	VERIFIED	14:47
EXTERNAL STANDARD	0.077	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.077	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.077	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.077	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.077	14:51
BLANK TEST	0.000	14:52

Average = 0.0770
 Std Dev = 0.0000

