

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2015 R0
Status: Active

Instrument # 100695

Date: 8/11/15

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Standard out of range + interference detected on the external standard

2. Visual Inspection

3. Troubleshooting/Repair

Performed initial VOC, supervisor test x10 and final VOC (w/ different tank). All tests completed successfully.

4. VOC (attached)

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

6. Verify software version 3.01

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 #: 100695

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/11/2015

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.19: 0.078
LOT #: 07214080A1
EXPIRATION: 04/01/2016
TANK PRESSURE: 210 psi

BLANK TEST	0.000	10:21
INTERNAL STANDARD	VERIFIED	10:21
Xq = 0.110 (1.05%)		
EXTERNAL STANDARD	0.078	10:21
X[1] = 0.0784 (0.0005) (0.0018)		
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.078	10:23
X[1] = 0.0785 (0.0002) (0.0017)		
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.079	10:24
X[1] = 0.0786 (0.0003) (0.0012)		
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.079	10:25
X[1] = 0.0787 (0.0003) (0.0013)		
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.079	10:26
X[1] = 0.0786 (0.0000) (0.0014)		
BLANK TEST	0.000	10:27

Average = 0.0786
Std Dev = 0.0005

Diagnostic Check

VERSIONS

EMT: 3.01
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.3°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.73 V	PASSED
(0.95 V - 2.23 V)	
Cooler Voltage = 1.61 V	PASSED
(0.95 V - 2.21 V)	
Bias Voltage = 79 V	PASSED
(49 V - 113 V)	
Chopper Freq = 557 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.043 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 = 0.110	0.42%	(0.00% - 4.00%)	PASSED
------------	-------	-----------------	--------

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

- (1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- (2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- (3) I am the Scientific Director of the State Breath Alcohol Program.
- (4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- (5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Bolz
Scientific Director
State Breath Alcohol Program

Subscribed and sworn before me this _____ day of _____, 20____

SUPERVISOR TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100695

Date: 08/11/2015
 Time: 10:35:48

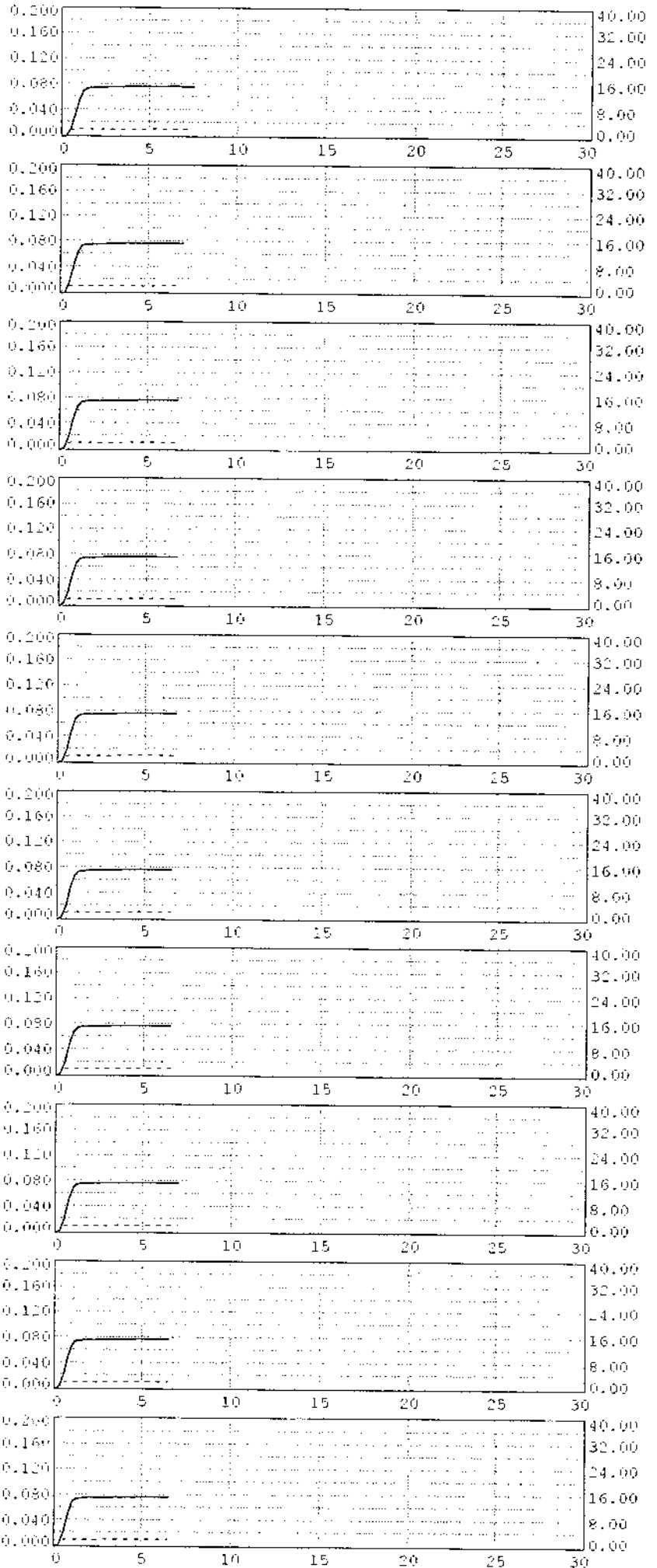
SUPERVISOR NAME:
 COLLEEN S OBRYANT
 OPERATOR'S #: 6237

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.19: 0.078
 LOT #: 07214080A1
 EXPIRATION: 04/01/2016
 TAN PRESSURE: 194 psi

BLACK TEST	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:36
[] = 0.110 (0.65%)		
EXTERNAL STANDARD	0.078	10:37
[] = 0.0782 (0.0007) (0.0032)		
BLACK TEST	0.000	10:38
EXTERNAL STANDARD	0.078	10:38
[] = 0.0783 (0.0008) (0.0026)		
BLACK TEST	0.000	10:39
EXTERNAL STANDARD	0.078	10:39
[] = 0.0784 (0.0006) (0.0019)		
BLACK TEST	0.000	10:40
EXTERNAL STANDARD	0.079	10:40
[] = 0.0787 (0.0007) (0.0022)		
BLACK TEST	0.000	10:41
EXTERNAL STANDARD	0.079	10:41
[] = 0.0786 (0.0007) (0.0021)		
BLACK TEST	0.000	10:42
EXTERNAL STANDARD	0.079	10:42
[] = 0.0787 (0.0007) (0.0018)		
BLACK TEST	0.000	10:43
EXTERNAL STANDARD	0.079	10:43
[] = 0.0787 (0.0013) (0.0020)		
BLACK TEST	0.000	10:44
EXTERNAL STANDARD	0.079	10:44
[] = 0.0789 (0.0007) (0.0012)		
BLACK TEST	0.000	10:45
EXTERNAL STANDARD	0.079	10:46
[] = 0.0791 (0.0010) (0.0019)		
BLACK TEST	0.000	10:47
EXTERNAL STANDARD	0.079	10:47
[] = 0.0786 (0.0005) (0.0020)		
BLACK TEST	0.000	10:48

Average = 0.0787
 St. Dev = 0.0005



VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100695

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/11/2015

External Standard Test Values

INTERNAL STANDARD INFORMATION

INITIAL: 0.080
ADJUST AT 29.19: 0.078
ID #: 09214080A2
CALIBRATION: 05/01/2016
BATTERY PRESSURE: 758 psi

ALCOHOL TEST	0.000	11:00
INTERNAL STANDARD	VERIFIED	11:00
Xq = 0.111 (1.45%)		
ALCOHOL TEST	0.079	11:00
INTERNAL STANDARD	0.0792 (0.0015) (0.0035)	
ALCOHOL TEST	0.000	11:01
INTERNAL STANDARD	0.079 (0.0014) (0.0028)	
ALCOHOL TEST	0.000	11:02
INTERNAL STANDARD	0.079 (0.0009) (0.0027)	
ALCOHOL TEST	0.000	11:03
INTERNAL STANDARD	0.079 (0.0006) (0.0023)	
ALCOHOL TEST	0.000	11:04
INTERNAL STANDARD	0.079 (0.0010) (0.0026)	
ALCOHOL TEST	0.000	11:05

ALCOHOL = 0.0700
INTERNAL = 0.0000

Diagnostic Check

VERSIONS

DMT: 3.01
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.73 V PASSED
(0.95 V - 2.23 V)
Cooler Voltage = 1.61 V PASSED
(0.95 V - 2.21 V)
Bias Voltage = 79 V PASSED
(49 V - 113 V)
Chopper Freq = 561 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.071 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 = 0.116 1.05% (0.00% - 4.00%) PASSED

I, Mia J. Bolz, after being first duly sworn, depose and state as follows:

- I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- I am the Scientific Director of the State Breath Alcohol Program.
- In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- The referenced instrument is certified for evidentiary use in the State of Alaska.

Mia J. Bolz
Scientific Director
State Breath Alcohol Program

Subscribed and sworn before me this _____ day of _____, 20____