	State of Alaska Scientific Crime Detection Laboratory		
	<b>DataMaster Calibration Form – DMCAF2011R1</b>		
	Issuing Authority – Nita Bolz, Scientific Director		
	Approval date: 03/10/11	Effective date: 03/10/11	Archive date: Active

**DataMaster DMT Calibration Form**

Instrument # 100353

Date: 3/15/11

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Guth
- c. Lot 9380
- d. Expiration Date 12/17/11

2. Wet Bath Simulator

- a. Serial Number DR4161
- b. Date Calibrated 8/23/10

3. Attach Calibration Factors

Breath Alcohol Analyst C. O' Bryant

CALIBRATION FACTORS


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Alaska Department of Public Safety  
DATAMASTER dmt: 100353  
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Date: 03/15/2011  
Time: 06:51:36

SUPERVISOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

LOT #: GUTH100  
BOTTLE #: 9380  
EXPIRATION: 12/17/2011

Ca	=	0.1000			
CAL	=	0.984793	0.800	<=	CAL < 1.200
b1	=	0.0008	0.0000	<=	b1 < 0.0040
b2	=	0.0055	0.0010	<=	b2 < 0.0100
b3	=	0.0003	0.0000	<=	b3 < 0.0040
Xq	=	0.0894	0.0500	<=	Xq < 0.2000
a21	=	1.178135	1.050	<=	a21 < 1.300
a31	=	0.526358	0.300	<=	a31 < 0.800

	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form – DMCEF2011R0		
	Issuing Authority – Nita Bolz, Scientific Director		
Approval date: 03/01/11	Effective date: 03/01/11	Archive date: Active	

**DataMaster DMT Certification Form**

Instrument # 100 353

1. Diagnostic Test (attached)
2. Voltage Checks
  - a. Adjust voltages, if needed 
    - i. Lamp (1.01 V dc – 2.37 V dc)
    - ii. Bias (48 V dc – 112 V dc)
    - iii. Cooler (1.18 V dc – 2.74 V dc)
    - iv. Chopper Frequency (475 hz – 575 hz)
  - b. Set RFI
  - c. Adjust barometer reading, if needed
  - d. Adjust volume setting, if needed
  - e. Print Technician Screen (attached)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1500 mL
5. Dry Gas Linearity Test (attached)

Analyst Brandi Barnett  
Date 3/3/2011

*Standard out of Range*

- a. Levels Used 
  - i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 02/01/2013
  - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013
  - iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 01/01/2012
  - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2013
  - v. 0.200g/210L Mnf ILMO Lot 17610200A1 Exp 07/01/2012
  - vi. 0.300g/210L Mnf ILMO Lot 02811300A1 Exp 02/01/2013 *BMB*
6. Functional Tests (attached) *BMB*
  - a. Incomplete
  - b. Invalid
  - c. Interference 
    - i. Acetone - Mnf \_\_\_\_\_ Lot \_\_\_\_\_ Level \_\_\_\_\_ Exp \_\_\_\_\_
      1. Simulator Calibration Date \_\_\_\_\_ SN \_\_\_\_\_
    - ii. Isopropanol - Mnf \_\_\_\_\_ Lot \_\_\_\_\_ Level \_\_\_\_\_ Exp \_\_\_\_\_
      1. Simulator Calibration Date \_\_\_\_\_ SN \_\_\_\_\_
  - d. RFI
7. Calibrate Stylus
8. Verify card reader is functional
9. Upload
10. Reset Options
11. Non-Drinking Subject Test (attached)

DIAGNOSTIC RECORD

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Alaska Department of Public Safety  
DATAMASTER dmt: 100353  
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Date: 03/03/2011  
Time: 09:34:41

VERSIONS

DMT: 1.00  
PIC: 3.02  
Modem: 2.0  
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C            PASSED  
Breath Tube      = 44.9°C           PASSED

PUMP INFO

Flow Rate = 5.112 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

Technician Screen

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DATAMASTER dmt: 100353  
-----

Date: 03/03/2011  
Time: 9:39 AM

Temperatures (°C)

Sample Cell: 48.8°C  
Breath Tube: 44.4°C

Current Barometer 29.6 in  
Volume (Ltr) 1.58

Settings

Lamp: 2.12 V  
Bias: 77 V  
Cooler: 1.74 V  
Chopper: 545 Hz

Voltages (V)

Flow: 1.05 V  
Detector: 0.607 V

CALIBRATION FACTORS

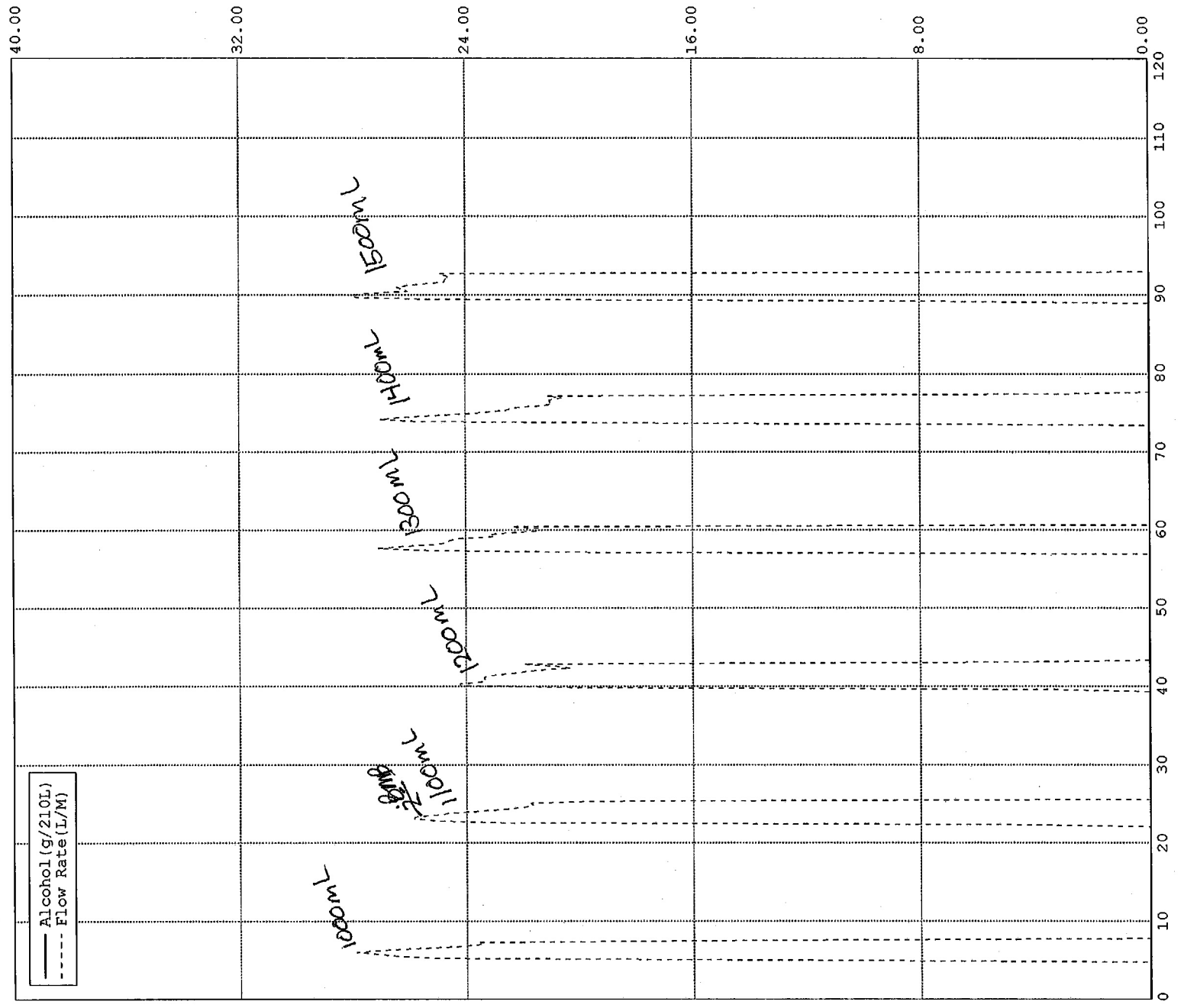
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Alaska Department of Public Safety  
DATAMASTER dmt: 100353  
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Date: 03/02/2011  
Time: 16:42:38

SUPERVISOR NAME:  
BRANDI M BARNETT  
CERTIFICATE #: 7038

LOT #: 9380  
BOTTLE #: GUTH  
EXPIRATION: 12/17/2011

Ca = 0.1000  
CAL = 0.974885    0.800 <= CAL < 1.200  
b1 = 0.0005    0.0000 <= b1 < 0.0040  
b2 = 0.0056    0.0010 <= b2 < 0.0100  
b3 = 0.0002    0.0000 <= b3 < 0.0040  
Xq = 0.0895    0.0500 <= Xq < 0.2000  
a21 = 1.169735    1.050 <= a21 < 1.300  
a31 = 0.522229    0.300 <= a31 < 0.800



**SUBJECT TEST**

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 Alaska Department of Public Safety  
 DATAMASTER dmt: 100353  
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 Date: 03/03/2011  
 Time: 09:40:52

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 MINIMUM VOLUME  
 OPERATOR'S #: XXXX

DEPT/AGENCY:  
 XXXX  
 CASE/REPORT: XXXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.64: 0.079

DIAGNOSTIC CHECK	PASSED	09:41
BLANK TEST	0.000	09:42
INTERNAL STANDARD	VERIFIED	09:42
EXTERNAL STANDARD	0.078	09:42
BLANK TEST	0.000	09:43
SUBJECT SAMPLE	0.000	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.077	09:46
BLANK TEST	0.000	09:46

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