ANNUAL PREVENTATIVE MAINTENANCE

DataMaster DMT: 102906
Location: Orange SO
Calibration Date: 10/20/2011
Certification Date: 10/20/2011
Installation Date: 10/27/2011
APM Date: 10/19/2012
Performed by: ROBERT DRISCOLL

Diagnostic Results

```
VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube    = 48.1°C
Digital Sim    = 34.0°C

SETTINGS
Lamp Voltage   = 1.63 V
Cooler Voltage = 1.97 V
Bias Voltage   = 120 V
Chopper Freq   = 539 Hz

PUMP INFO
Flow Rate = 4.763 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   -0.0096   -0.0063
MIN(V)   -0.0112   -0.0085

FILTER INFO
Filter 1  -0.008  Zero = true
Filter 2   0.344  Zero = true
Filter 3   1.484  Zero = true

CALIBRATION CHECK
Xq  = 0.135  2.44%
```

APM PASSED

Simulator Vapor Test

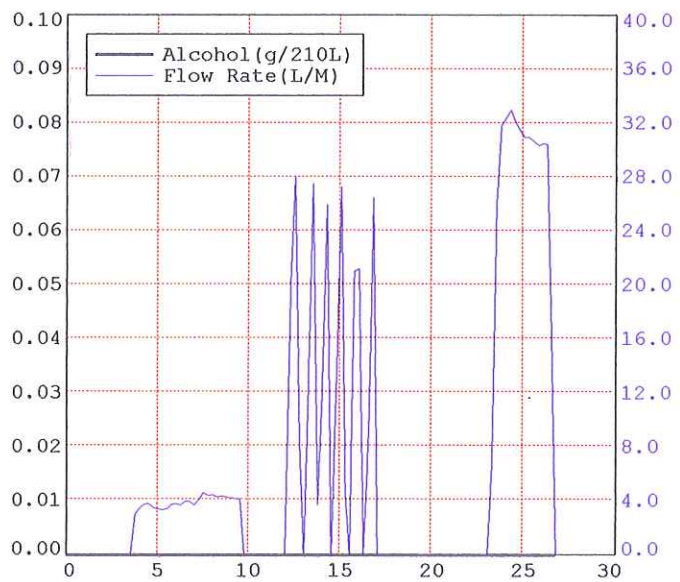
Concentration	= 0.100 g/210L
Lot #	= 12-72-100
Range	= 0.095 - 0.105
Simulator Vapor	= 0.098 g/210L

RF Detection Test

Passed

Sample Acceptance Test

Passed



Performed by _____ **Date** 10/19/2012

Reviewed by _____ **Date** 10/23/2012

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 102906
Location: Orange SO

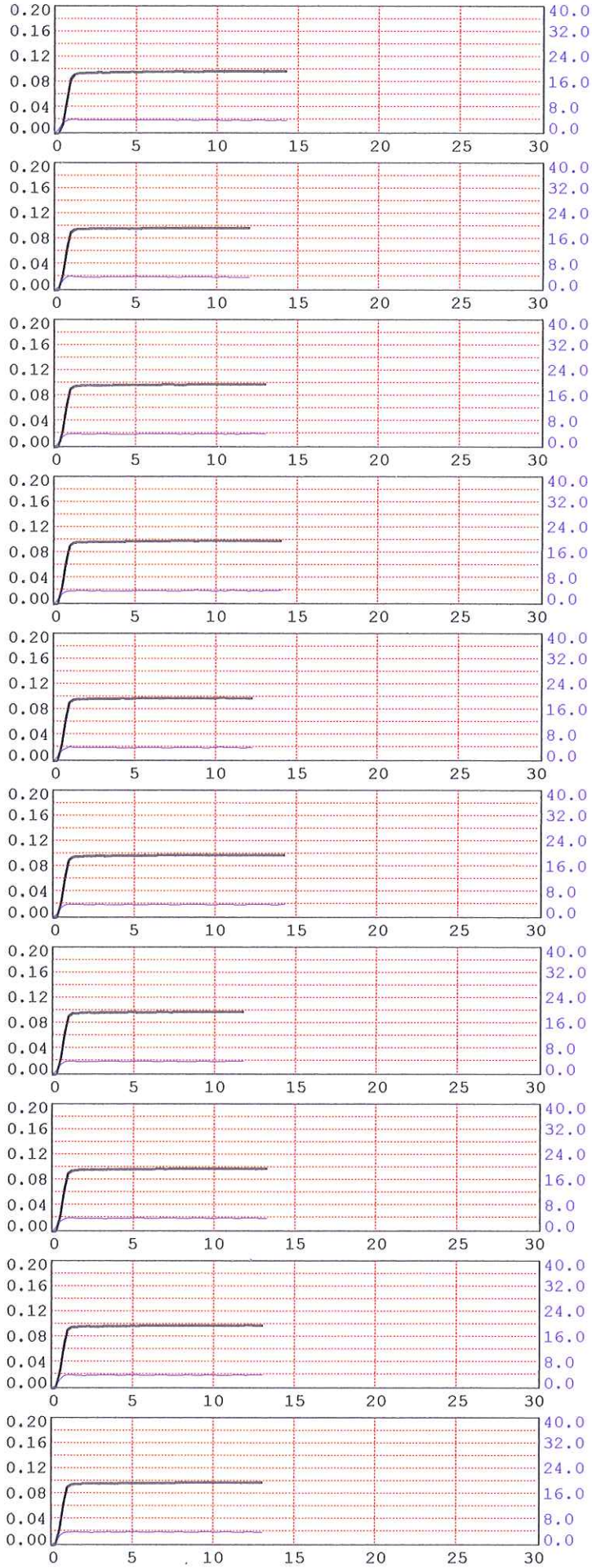
Date: 10/19/2012
Time: 10:30:31

SUPERVISOR NAME:
ROBERT DRISCOLL

SOLUTION LOT #: 12-13-100
SOLUTION CONCENTRATION: 0.102

BLANK TEST	0.000	10:31
CALIBRATION CHECK	PASSED	10:31
SIMULATOR VAPOR 33.9°C	0.097	10:31
SIMULATOR VAPOR 33.9°C	0.097	10:32
SIMULATOR VAPOR 34.0°C	0.097	10:34
SIMULATOR VAPOR 34.0°C	0.098	10:35
SIMULATOR VAPOR 33.9°C	0.098	10:36
SIMULATOR VAPOR 34.0°C	0.097	10:37
SIMULATOR VAPOR 34.0°C	0.097	10:38
SIMULATOR VAPOR 33.9°C	0.097	10:39
SIMULATOR VAPOR 33.9°C	0.098	10:40
SIMULATOR VAPOR 34.0°C	0.097	10:41
BLANK TEST	0.000	10:42

Average = 0.097
Std Dev = 0.000



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APM Date: 10/19/2012
Performed by: ROBERT DRISCOLL

Diagnostic Results

```
VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube    = 47.9°C
Digital Sim    = 33.9°C

SETTINGS
Lamp Voltage   = 1.63 V
Cooler Voltage = 1.97 V
Bias Voltage   = 120 V
Chopper Freq   = 539 Hz

PUMP INFO
Flow Rate = 4.783 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)    0.0012    0.0030
MIN(V)   -0.0010    0.0008

FILTER INFO
Filter 1   0.002  Zero = true
Filter 2   0.354  Zero = true
Filter 3   1.498  Zero = true

CALIBRATION CHECK
Xq  = 0.134  1.90%
```

Simulator Vapor Test

Concentration	= 0.100 g/210L
Lot #	= 12-72-100
Range	= 0.095 - 0.105
Simulator Vapor	= 0.097 g/210L

RF Detection Test

Passed

Sample Acceptance Test

APM FAILED

Performed by _____ **Date** 10/19/2012

Reviewed by _____ **Date** _____

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STATE OF VERMONT
DEPARTMENT OF PUBLIC SAFETY
VERMONT FORENSIC LABORATORY
P.O. BOX 47
WATERBURY, VERMONT 05676-0047

TEL: 802•244•8788
FAX: 802•241•5557
E-MAIL: DPS - cjs0lab@state.vt.us
http://www.vfl.vermont.gov/

After APM completed (printout at 10:27 AM), noticed sticker on simulator tower showed Lot # 12-13-100 with Concentration of 0.102 g/210L. According to APM printout (and DMT), the current Lot of solution was 12-72-100 with Concentration of 0.100 g/210L.

Ran Accuracy & Precision (time of 10:30:31) in an attempt to correct the Lot # and Concentration so they would match the sticker on the tower.

Re-ran APM (printout at 10:49 AM), but realized the Lot # and Concentration had not changed; aborted APM.

RPC due, so solution changed to Lot # 12-84-100 with Concentration of 0.101 g/210L. Upon viewing maintenance log, the sticker from the most recent solution change showed that it was in fact Lot # 12-72-100 with Concentration of 0.100 g/210L. The sticker on simulator tower had not been updated.

Passing RPC completed

-RCD 10/19/12 RCD