



**VERMONT FORENSIC LABORATORY**

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**DATAMASTER TECHNICAL SUPPORT INQUIRY**

Agency/Site: Lamoille CSO DataMaster Serial #: 102506

Date: 4/6/2014 Requestor: Andrew Plante

Instrument Supervisor: Andrew Plante Phone #: (802) 888-3502

Taken By: R. Driscoll

Problem: DataMaster Supervisor concerned about simulator solution depletion.

Laboratory Response: R. Driscoll to troubleshoot in the field.

Work Performed: Checked simulator solution temperature with NIST thermometer s/n: 111814517; temperature reading 34.2 degrees C. Leak checked simulator and found to be tight. Ran a Diagnostic check and all parameters within specifications. Accuracy and Precision check shows the simulator solution concentration to be .095g/210L (certified to be .099g/210L). Simulator solution is within specifications; will monitor usage to track depletion.

On Site  In-house

Attachments: 4 pages

Performed By: Robert Driscoll RCD

Date: 4/7/2014

Final Review: [Signature]

Date: 4/8/2014

**Driscoll, Rob**

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**From:** Plante, Andrew  
**Sent:** Sunday, April 06, 2014 8:55 AM  
**To:** Driscoll, Rob  
**Cc:** Watson, Christian  
**Subject:** DMT Solution

Rob,

We are currently out of Simulator Solution, the solution does not appear to be anywhere close to what it is suppose to be. Lot 16 was suppose to have a concentration of .099 and when put into the DMT it is only running .095 or .096 and therefore almost out of range when put in. I completed my RPC on 2/16 and having to change solution with little use. My understanding is Hardwick PD is having the same issue.

Please send more solution.

*Corporal/Deputy Andrew Plante  
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# DIAGNOSTIC RESULT



DataMaster DMT:102506  
Location: Lamoille County SO  
Calibration Date: 07/02/2013  
Certification Date:07/02/2013  
Installation Date: 07/02/2013  
Test Date: 04/07/2014  
Test Time: 11:23:50

## VERSIONS

DMT: 1.01  
PIC: 2.05  
Modem: 2.4  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 49.1°C  
Breath Tube = 46.5°C  
Digital Sim = 34.1°C

## SETTINGS

Lamp Voltage = 1.78 V  
Cooler Voltage = 1.77 V  
Bias Voltage = 80 V  
Chopper Freq = 534 Hz

## PUMP INFO

Flow Rate = 5.337 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1400	0.1419
MIN(V)	0.1380	0.1402

## FILTER INFO

Filter 1	0.141	Zero = true
Filter 2	0.716	Zero = true
Filter 3	1.534	Zero = true

## CALIBRATION CHECK

Xq = 0.084 0.31%





### ACCURACY & PRECISION REPORT

#### STATE OF VERMONT

DataMater DMT: 102506  
Location: Lamoille County SO

Date: 04/07/2014  
Time: 11:26:13

SUPERVISOR NAME:  
ROBERT DRISCOLL

SOLUTION LOT #: 13-16-100  
SOLUTION CONCENTRATION: 0.099

BLANK TEST	0.000	11:27
CALIBRATION CHECK	PASSED	11:27
SIMULATOR VAPOR 34.1°C	0.095	11:27
SIMULATOR VAPOR 34.1°C	0.096	11:28
SIMULATOR VAPOR 34.1°C	0.096	11:29
SIMULATOR VAPOR 34.1°C	0.096	11:30
SIMULATOR VAPOR 34.1°C	0.096	11:31
SIMULATOR VAPOR 34.1°C	0.096	11:32
SIMULATOR VAPOR 34.1°C	0.096	11:33
SIMULATOR VAPOR 34.1°C	0.096	11:34
SIMULATOR VAPOR 34.1°C	0.096	11:35
SIMULATOR VAPOR 34.1°C	0.096	11:36
BLANK TEST	0.000	11:37

Average = 0.095  
Std Dev = 0.000

