



VERMONT FORENSIC LABORATORY

PO BOX 47
WATERBURY, VERMONT 05676-0047
TEL: 802-244-8788
FAX: 802-241-5557
<http://vfl.vermont.gov>

DATAMASTER TECHNICAL SUPPORT INQUIRY

Agency/Site: South Burlington PD DataMaster Serial #: 100162

Date: 1/16/2015 Requestor: David Solomon

Instrument Supervisor: David Solomon Phone #: (802)846-4111

Taken By: Robert Driscoll

Problem: Simulator solution out of range post solution change _____

Laboratory Response: R. Driscoll to investigate on site. _____

Work Performed: Checked simulator for any leaks. The simulator was tight so checked for any leaks in the tubing and 5-way valve. Everything looks good, but noticed the chopper wheel motor making noise. Changed simulator solution to run through the weekend and it was in spec at 0.097g/210L. Removed instrument from service and returned to the VFL to replace chopper wheel motor and optimize the detector voltage at filter one. Instrument has been calibrated, certified, and now awaits installation at the agency. _____

On Site In-house

Attachments: 7 pages

Performed By: Robert Driscoll RCD

Date: 1/20/2015

Final Review: [Signature]

Date: 1/20/2015

Driscoll, Rob

From: Driscoll, Rob
Sent: Friday, January 16, 2015 8:17 AM
To: Dave Solomon
Subject: Re: More DMT fun

Dave,
I'm here looking at your DMT now. I'm going to change the solution to get you through Monday. Tuesday morning I would like to take the instrument back to the lab to replace the noisy chopper wheel motor (no effect on the validity of the instrument, just annoying), and I'm going to optimize the detector voltage... This will require a calibration and certification. I will get everything ready in the lab today so that I should be able to take it and bring it back on Tuesday.

Regards,
Rob

Sent from my iPhone

On Jan 16, 2015, at 3:45 AM, "Dave Solomon" <dsolomon@sbpdvt.org> wrote:

Rob,

Had another DUI again tonight. The first test was a .095 but the second test went out of range at .093. Then the screen went black and I had to shut off the DMT. We tried it one more time and it came back in range at .095. I am so glad it's the weekend for me!!!! Talk to you later,

Dave

SGT DAVID SOLOMON
SOUTH BURLINGTON POLICE DEPARTMENT
PATROL DIVISION
19 GREGORY DR.
SOUTH BURLINGTON, VT 05403
802-846-4203 - Direct Line
802-846-4111 - Dispatch
802-846-4102 - Fax

Notice - Under Vermont's Public Records Act, all e-mail, e-mail attachments as well as paper copies of documents received or prepared for use in matters concerning City business, concerning a City official or staff, or containing information relating to City business are likely to be regarded as public records which may be inspected by any person

upon request, unless otherwise made confidential by law. If you have received this message in error, please notify us immediately by return email. Thank you for your cooperation.

SOLUTION CHANGE

DataMaster DMT: 100162
Location: South Burlington PD
Date: 01/16/2015
Performed by: ROBERT DRISCOLL



Accuracy and Precision Check

Concentration = 0.099 g/210L
Lot # = 14-15-100
Range = 0.094 - 0.104
Average = 0.097 g/210L
Std Dev = 0.0000

Simulator Temperature: 34°C

Performed by



Date

01/16/2015

CALIBRATION REPORT

DataMaster DMT:100162
Calibration Date: 01/20/2015
Calibrated by: ROBERT DRISCOLL
Lot: 14-07-100



Ca	=	0.100		
CAL	=	0.969534	0.800	<= CAL < 1.200
b1	=	0.000	0.000	<= b1 < 0.004
b2	=	0.006	0.002	<= b2 < 0.010
b3	=	0.000	0.000	<= b3 < 0.004
Xq	=	0.081	0.050	<= Xq < 0.200
a21	=	1.202232	1.050	<= a21 < 1.300
a31	=	0.433149	0.300	<= a31 < 0.800

Performed by

RD RCD

Date

01/20/2015



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100162

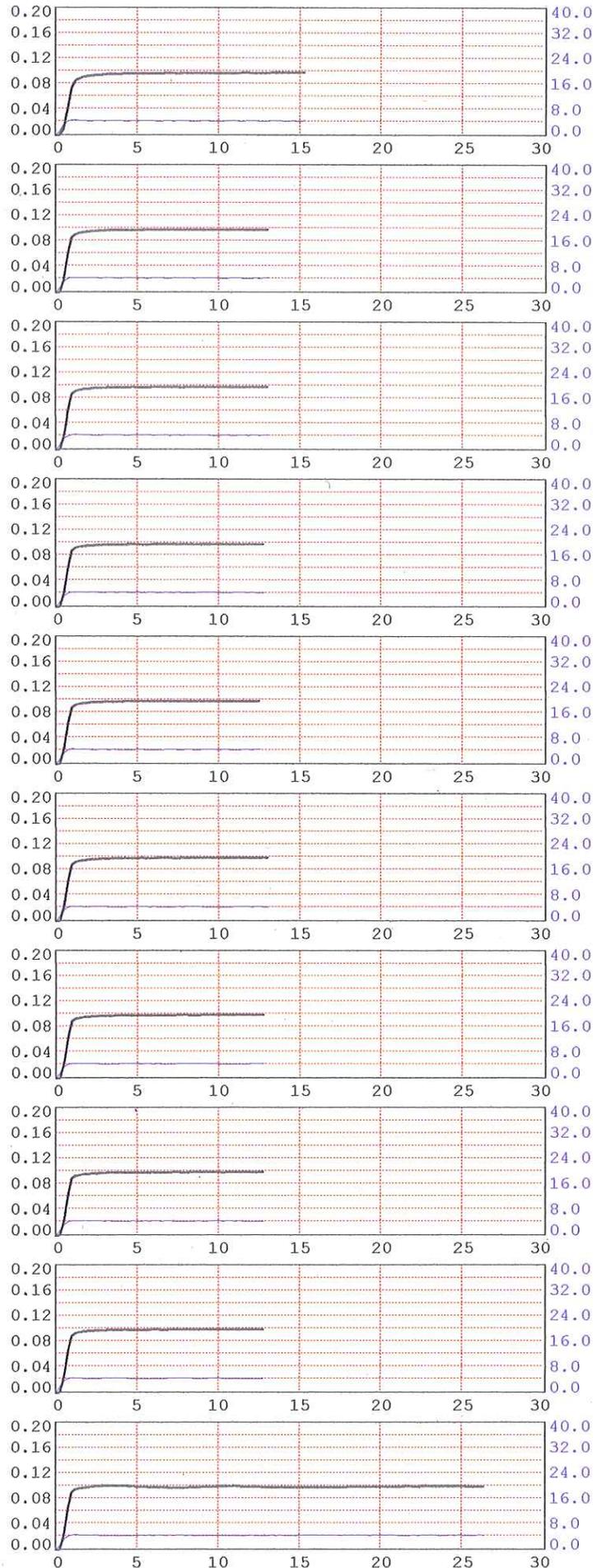
Date: 01/20/2015
Time: 12:42:16

SUPERVISOR NAME:
RCD CAL CHECK

SOLUTION LOT #: GUTH 14110
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	12:43
CALIBRATION CHECK	PASSED	12:43
SIMULATOR VAPOR 34.0°C	0.098	12:43
SIMULATOR VAPOR 34.0°C	0.098	12:44
SIMULATOR VAPOR 33.9°C	0.098	12:45
SIMULATOR VAPOR 33.9°C	0.099	12:46
SIMULATOR VAPOR 34.0°C	0.098	12:47
SIMULATOR VAPOR 33.9°C	0.099	12:48
SIMULATOR VAPOR 34.0°C	0.099	12:50
SIMULATOR VAPOR 33.9°C	0.099	12:51
SIMULATOR VAPOR 33.9°C	0.098	12:52
SIMULATOR VAPOR 33.9°C	0.099	12:53
BLANK TEST	0.000	12:54

Average = 0.098
Std Dev = 0.000



6028 RD

CERTIFICATION REPORT

DataMaster DMT: 100162
Calibration Date: 01/20/2015
Certification Date: 01/20/2015
Certified by: ROBERT DRISCOLL



Diagnostic Results

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 44.8°C
Digital Sim = 33.9°C

SETTINGS

Lamp Voltage = 1.75 V
Cooler Voltage = 1.80 V
Bias Voltage = 80 V
Chopper Freq = 532 Hz

PUMP INFO

Flow Rate = 5.413 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.0441	0.0409
MIN (V)	0.0370	0.0337

FILTER INFO

Filter 1	0.040	Zero = true
Filter 2	0.474	Zero = true
Filter 3	1.066	Zero = true

CALIBRATION CHECK

Xq = 0.081 0.54%

Options

OPTIONS

Units

Alcohol..... g/210L

Simulator

Tolerance Check..... yes
Standard Type..... wet
Nominal..... 0.100
Digital Simulator..... Guth34CNP

Subject

Ask Questions..... yes
Number of Tests..... 2
Alcohol Display..... yes
Volume Display..... yes
Query Refusal..... yes
Copies..... 3
Simulator Before..... yes
Simulator Between..... yes
Simulator After..... no
Observation Time..... 0

Supervisor

Number of Tests..... 10

Calibration

Standard Type..... wet
Nominal..... 0.100
Nominal (Dry Gas)..... 0.100
Number of Tests..... 1

Printer

Printer On..... yes

Software Configuration

Data Collection..... yes

