



VERMONT FORENSIC LABORATORY

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DATAMASTER TECHNICAL SUPPORT INQUIRY

Agency/Site: Bristol PD DataMaster Serial #: 100150

Date: 7/1/2016 Requestor: Kevin Gibbs

Instrument Supervisor: Kevin Gibbs Phone #: (802) 453-2533

Taken By: Robert Driscoll

Problem: DMT Supervisor keeps getting "simulator timed out" errors during RPC attempts.

Laboratory Response: Alcohol program staff will troubleshoot onsite.

Work Performed: Amanda Bolduc inspected the simulator and found a leak. No good spare simulators available so instrument placed out of service. R. Driscoll located a good spare Guth simulator s/n : G8970. Installed new simulator, matched temperatures to the instrument using NIST traceable thermometer s/n: 111814367, and completed the RPC protocol.

On Site In-house Attachments: 15 pages

Performed By: Rob Driscoll ^{RCD} Date: 7/5/2016
Final Review: [Signature] Date: 7/12/16 ^{7/13/16}

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 07/05/2016
Supervisor Name: ROBERT DRISCOLL

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 47.9°C
Digital Sim = 34.0°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.63 V
Bias Voltage = 80 V
Chopper Freq = 547 Hz

PUMP INFO

Flow Rate = 5.903 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.1717	0.1744
MIN (V)	0.1701	0.1728

FILTER INFO

Filter	Value	Zero
Filter 1	0.174	true
Filter 2	0.895	true
Filter 3	0.887	true

CALIBRATION CHECK

Xq = 0.082 3.15%

Routine Performance Check Passed

Accuracy and Precision Check

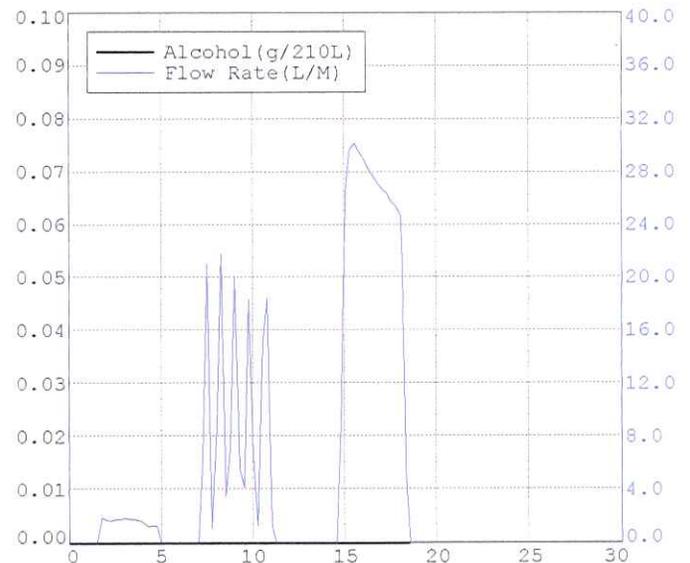
Concentration = 0.099 g/210L
Lot # = 16-05-100
Range = 0.094 - 0.104
Average = 0.102 g/210L
Std Dev = 0.0004

RF Detection Test

Passed

Sample Acceptance Test

Passed



Performed by RD

Date 07/05/2016

Reviewed by [Signature]

Date 7/13/16

Re: June RPC

Gibbs, Kevin

Fri 7/1/2016 12:21 AM

DMT Discoverable

To: Driscoll, Rob <Rob.Driscoll@vermont.gov>;

Rob, I made 12 attempts to get an RPC done. If you don't have access to the records I primarily kept getting simulator errors. I had previously indicated I believed there was a problem with the o-ring. No visible damage to it however it seems I have to find just the right tightness to get a good RPC. My initial two attempts were with it very snug and then just feeling the o-ring touch down. After that I kept tightening ever so slightly and go to a point where it would run through 3-4 tests before failing. I gave up at attempt #12.

Chief Kevin E. Gibbs

Bristol Police Department

[P.O. Box 249 / 72 Munsill Ave, Suite 603](#)

[Bristol, VT 05443](#)

Office (802)453-2533

Fax (802)453-6868

E-Mail kevin.gibbs@vermont.gov

From: Driscoll, Rob

Sent: Tuesday, June 28, 2016 7:41 AM

To: /o=state.vt.us/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=jnoble;
/o=state.vt.us/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=Neilson, Hannah3c5; Adams, Jonathan; Allen, Blake; Allen, Ray; Ambroz, Todd; Bassette, Chad; Belisle, Mark; Belville, Adam; Bill Hanson; Bohnyak, William; Bohnyak, William; Brad Vail; Breault, John; Brennan, Sean; Brooks, Philip; Butterfield, David; Carignan, Mark; Casco, Caleb; Chad Bean; Charkalis, Jason; Chin, Matthew; Chris Jones; Christopher Mason; Claffy, Brian; Cota, Drew; Cushing, Blake; Denault, Mark; Derrick Kendrew; Deslauriers, Katherine; Dominic Brodeur; Dwayne Mellis; Dziobek, James; Emery, Chad; Evans, Jeremy; Flowers, Heather; Fox, Brian; Frattini, Danielle; Fredholm, Jonathan D.; Gibbs, Kevin; Gilbert, Donald; Greenough, Richard; Greenslet, Patrick; Hahr, Adrian; Haley, Jason; Hall, Michael L; Harvey, Allison; Herbes, Cassandra; Herrick, Benjamin; Holly Ellis; Hulshof, Jeremy; jack.lehnan@colchesterpdvt.org; James Mills; James Roy; Jason Covey; Jason Noble; Jim Otranto; John Dunn; Jollymore, Eric; Keefe, Michael; Kerber, Dale; Kevin Emilio; King, Richard; Kirkpatrick, Troy; Knapp, Kelsey; Koss, Frank; LaFlam, Jody; LaFountain, Gordon; Lauzon, Chris; Leonard, Anthony; Lester Cleary; Lindemuth, Brett; Loomis, Seth; Lucia, Adam; Lynch, James; MacFarlane, Jonathan; Marceau, Andrew; Mark Bickford; Marsh, Gregory; Matt Collins; Maurice, Crista; Meyer, Bret; Miles, Chad; mitchell, steven; Monteith, Mark; Morgan Lawton; Moulton, Charles; Neary, Eden; Newton, Brent; Noyes, Jeffrey; O'Neill, Adam; Paul Fabiani; Perkins, Robert; Pickel, Justin; Pierce, Joel; Poulin, Marc; Quesnel, Christopher; Rainault, Gil; Rancourt, Tylor; Rataj, Charles; Ravelin, Paul; Reeve, Michael; Rick Greenough; Riehl, James; Riggen, Jay; Robert Kissinger; Robinson, Dustin; Robson, Jesse; Rogers, Jeremiah; Sarah Superneau; Satterfield, Charles; Shepard, Eric; Silver, Daniel; Simpson, Tom; Sly, John; Spacapan, Patrician; Stearns, Steven; Steere, Daniel; Steeves, Matthew; Stemp, Joshua; stephen Dunning; Stephen Nolan; Sweeny, Jay; Szarejko, Joseph T; Szarejko, Justin; Taylor, Stephanie; Tetreault, Chris; Tienken, Derrick; Tiersch, Steven; Underwood, Andrew; Vaillancourt, Nathan; Waitekus, John; Warner, William; Watson, Christian; Wayne Briggs (wbriggs@orangecountysheriff.com); Werner, Rich; White, David; Whitehead, Charles; Whitney, Patricia; William Austin; Winn, Charles; Witherbee, Penny; Wright, James

Subject: June RPC

DMT Supervisors,

For those of you that have not yet completed your June RPC, this is a final reminder to do so before the end of the month. Failure to complete the June RPC will result in the instrument taking itself out of service until which time a RPC protocol is completed. I will be on vacation from 6/30/16 through 7/4/16 so if you have any questions or concerns please contact Amanda Bolduc or Jeffery Dukette.

Thanks,
Rob

Robert Driscoll
Vermont Forensic Laboratory
45 State Drive
Waterbury, VT 05671
Electronics Technician
Rob.Driscoll@Vermont.gov
Desk: (802) 241-5817
Cell: (802) 585-0123

DataMaster

Bolduc, Amanda

Fri 7/1/2016 10:43 AM

To: Gibbs, Kevin <Kevin.Gibbs@vermont.gov>;

Cc: Driscoll, Rob <Rob.Driscoll@vermont.gov>;

Good Morning Chief,

I was reviewing your DataMaster records this morning regarding the RPC you attempted to complete last night and I have concerns. I have also left you a voicemail. Please contact me at your earliest convenience.

Thanks

Amanda Bolduc, MFS

Alcohol Program Supervisor

Vermont Forensic Laboratory

Department of Public Safety

[45 State Drive](#)

[Waterbury, VT 05671](#)

(802) 241-5300 (ph)

(802) 585-0504 (cell)

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Amanda.bolduc@vermont.gov

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ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 06/30/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS

DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 47.5°C
Digital Sim = 33.7°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.62 V
Bias Voltage = 80 V
Chopper Freq = 548 Hz

PUMP INFO

Flow Rate = 5.893 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1705	0.1736
MIN(V)	0.1691	0.1720

FILTER INFO

Filter 1	0.173	Zero = true
Filter 2	0.894	Zero = true
Filter 3	0.884	Zero = true

CALIBRATION CHECK

Xq = 0.082 2.61%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration

Lot #

Range

Average

Std Dev

Performed by

Kevin E Gibbs

Date

06/30/2016

Reviewed by

Date

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 06/30/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 46.2°C
Digital Sim = 33.7°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.63 V
Bias Voltage = 80 V
Chopper Freq = 544 Hz

PUMP INFO

Flow Rate = 6.007 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1528	0.1567
MIN(V)	0.1514	0.1549

FILTER INFO

Filter 1	0.155	Zero = true
Filter 2	0.880	Zero = true
Filter 3	0.863	Zero = true

CALIBRATION CHECK

Xq = 0.082 2.93%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev

Performed by _____

Date _____

06/30/2016

Reviewed by _____

Date _____

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 06/30/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 45.3°C
Digital Sim = 33.6°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.62 V
Bias Voltage = 80 V
Chopper Freq = 544 Hz

PUMP INFO

Flow Rate = 6.042 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1561	0.1583
MIN(V)	0.1539	0.1571

FILTER INFO

Filter 1	0.158	Zero = true
Filter 2	0.881	Zero = true
Filter 3	0.864	Zero = true

CALIBRATION CHECK

Xq = 0.082 3.37%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev

Performed by

Kevin E Gibbs

Date

06/30/2016

Reviewed by

Date

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 06/30/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 45.2°C
Digital Sim = 33.7°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.63 V
Bias Voltage = 80 V
Chopper Freq = 545 Hz

PUMP INFO

Flow Rate = 5.927 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1585	0.1620
MIN(V)	0.1571	0.1606

FILTER INFO

Filter 1	0.161	Zero = true
Filter 2	0.884	Zero = true
Filter 3	0.867	Zero = true

CALIBRATION CHECK

Xq = 0.082 2.93%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev

Performed by _____

Date _____

06/30/2016

Reviewed by _____

Date _____

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 06/30/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 45.3°C
Digital Sim = 33.7°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.63 V
Bias Voltage = 80 V
Chopper Freq = 546 Hz

PUMP INFO

Flow Rate = 5.929 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1628	0.1661
MIN(V)	0.1612	0.1648

FILTER INFO

Filter 1	0.166	Zero = true
Filter 2	0.887	Zero = true
Filter 3	0.873	Zero = true

CALIBRATION CHECK

Xq = 0.082 3.15%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev

Performed by

Kevin E Gibbs

Date

06/30/2016

Reviewed by

Date

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 06/30/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 45.3°C
Digital Sim = 33.7°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.63 V
Bias Voltage = 80 V
Chopper Freq = 546 Hz

PUMP INFO

Flow Rate = 6.057 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1650	0.1683
MIN(V)	0.1640	0.1663

FILTER INFO

Filter 1	0.167	Zero = true
Filter 2	0.889	Zero = true
Filter 3	0.877	Zero = true

CALIBRATION CHECK

Xq = 0.082 3.04%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev

Performed by _____

Kevin E Gibbs

Date _____

06/30/2016

Reviewed by _____

Date _____

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 06/30/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 44.8°C
Digital Sim = 33.6°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.63 V
Bias Voltage = 80 V
Chopper Freq = 546 Hz

PUMP INFO

Flow Rate = 6.005 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1669	0.1699
MIN(V)	0.1657	0.1685

FILTER INFO

Filter 1	0.170	Zero = true
Filter 2	0.890	Zero = true
Filter 3	0.879	Zero = true

CALIBRATION CHECK

Xq = 0.082 3.15%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev
Sim. Temp. out of range

Performed by _____

Kevin E Gibbs

Date _____

06/30/2016

Reviewed by _____

Date _____

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 06/30/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 45.1°C
Digital Sim = 33.6°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.62 V
Bias Voltage = 80 V
Chopper Freq = 546 Hz

PUMP INFO

Flow Rate = 6.071 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1683	0.1711
MIN(V)	0.1671	0.1699

FILTER INFO

Filter 1	0.170	Zero = true
Filter 2	0.890	Zero = true
Filter 3	0.882	Zero = true

CALIBRATION CHECK

Xq = 0.082 3.04%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev
Sim. Temp. out of range

Performed by _____

Kevin E Gibbs

Date _____

06/30/2016

Reviewed by _____

Date _____

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 06/30/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 45.0°C
Digital Sim = 33.7°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.63 V
Bias Voltage = 80 V
Chopper Freq = 547 Hz

PUMP INFO

Flow Rate = 5.894 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1695	0.1724
MIN(V)	0.1681	0.1709

FILTER INFO

Filter 1	0.172	Zero = true
Filter 2	0.892	Zero = true
Filter 3	0.883	Zero = true

CALIBRATION CHECK

Xq = 0.082 3.26%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev

Performed by

Kevin E Gibbs

Date

06/30/2016

Reviewed by

Date

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 06/30/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 45.1°C
Digital Sim = 33.7°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.63 V
Bias Voltage = 80 V
Chopper Freq = 547 Hz

PUMP INFO

Flow Rate = 6.082 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1736	0.1758
MIN(V)	0.1720	0.1742

FILTER INFO

Filter 1	0.175	Zero = true
Filter 2	0.895	Zero = true
Filter 3	0.889	Zero = true

CALIBRATION CHECK

Xq = 0.082 3.59%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev

Performed by

Kevin E Gibbs

Date

06/30/2016

Reviewed by

Date

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 06/30/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 45.3°C
Digital Sim = 33.7°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.62 V
Bias Voltage = 80 V
Chopper Freq = 547 Hz

PUMP INFO

Flow Rate = 5.913 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1766	0.1793
MIN(V)	0.1754	0.1783

FILTER INFO

Filter 1	0.179	Zero = true
Filter 2	0.897	Zero = true
Filter 3	0.892	Zero = true

CALIBRATION CHECK

Xq = 0.082 3.15%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev

Performed by

Kevin E Gibb

Date

06/30/2016

Reviewed by

Date

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150
Location: BRISTOL PD
Calibration Date: 08/04/2015
Certification Date: 08/04/2015
Installation Date: 08/04/2015
RPC Date: 07/01/2016
Supervisor Name: KEVIN E GIBBS

Diagnostic Results

VERSIONS
DMT: 2.00
PIC: 2.06
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 45.5°C
Digital Sim = 33.7°C

SETTINGS

Lamp Voltage = 1.60 V
Cooler Voltage = 1.63 V
Bias Voltage = 80 V
Chopper Freq = 547 Hz

PUMP INFO

Flow Rate = 6.009 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1770	0.1799
MIN(V)	0.1754	0.1787

FILTER INFO

Filter 1	0.179	Zero = true
Filter 2	0.899	Zero = true
Filter 3	0.895	Zero = true

CALIBRATION CHECK

Xq = 0.082 2.93%

Routine Performance Check Failed

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev

Performed by _____

Date _____

07/01/2016

Reviewed by _____

Date _____