Middlebury PD 123206

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SECTION 1

RESULTS

Packing List

From: National Patent Analytical Systems Inc.
2090 Harrington Mem. Rd., Mansfield, Ohio 44903

Cust No. VT1678J **Ord Date** 12/21/11
Sales Order No. 45152

Ship Date 12/27/11
Packing List No. 69430

Cust Purch Ord No. KIRK KIMBALL

Ship To:
Vermont Dept of Health
195 Colchester Avenue
Burlington Vt 05401

Bill To:
Vermont Dept of Health
P O Box 70
Burlington Vt 05402

25.00
Freight

Attn:

Ship Via FedEx

Comments Service for Instrument Serial Number 123206

Inv Part No	Quantity Ordered	This Shipment	Back Ordered	Total Ship To Date	Description	Customer Part No.	Drawing Part No. / Rev
9DMT	1.0	1		1.0	DATAMASTER DMT SERVICE RETURN		
S/N 123206						None Given	No Draw # / NONE
Serial Nos.	123206						

Opened 12/30/11

National Patent
Analytical Systems, Inc.

On this date 12/21/11, NPAS received instrument # 123206.

The instrument was sent from the Vermont Department of Health (VDH) so that NPAS could install updated software as well as inspect the instrument. At NPAS' request VDH provided copies of the Technical Support Inquiries (TSI) regarding the instrument. The calibration history of the instrument remained in the instrument so that NPAS could review its history.

NPAS examined the internal configuration of the instrument and did / did not find physical manipulation or tampering of the components located within the instrument itself.

NPAS did performance and accuracy checks on a certified 0.100 ethanol standard. NPAS found that the instrument passed / failed the performance and accuracy checks.

NPAS reviewed the instrument as to its DataMaster DMT Inspection, QA and Conformance Testing Procedure and the instrument performed / did not perform within its procedure.

NPAS examined the calibration records and did / did not observe anomalies.

Talked w/ Dave @ NPAS was an error 1-10-12 phone call

NPAS testing indicates that there is no reason why this instrument would not have performed accurately and reliably in the field.

Print Name of Evaluator: Michael Barbely

Signature of Evaluator and Date: Michael Barbely 12/27/11

Print Name of Reviewer: DAVID RADOMSKI

Signature of Reviewer and Date: David Radomski 12/27/11

Opened 12/30/11 SM

2090 Harrington Memorial Road, Mansfield, Ohio 44901 Ph 419-526-6727 Fax 419-526-9446

DataMaster DMT Serial Number 123206

Power Up	CAL Factor	In-House & 2nd Source Calibration Check			Simulator Assignment	Certification	0.01% Acet. in 0.08% EtOH	0.04% MeOH in H_2O	0.04% IPA in H_2O	0.01% Acet. in 0.04% EtOH	0.02% Acet. in 0.04% EtOH	0.04% MeOH in 0.08% EtOH	0.04% IPA in 0.08% EtOH
		NIST Temp. °C	Lot. #	Result (g/210L)									
1-3-12 KKK	0.992203 1-3-12 KKK	34.1	GuTH 11050	0.099 1-3-12 KKK	G9525 01/09/12	1-4-12 KKK	100% 1-3-12 KKK	100% 1-6-12 KKK	100% 01/06/12 KKK	100% 01/04/12 KKK 1-5-12	100% 1-5-12 KKK	100% 1-6-12 KKK	100% 01/06/12 KKK
		34.0	12-39-100	0.099 KKK 1-3-12									

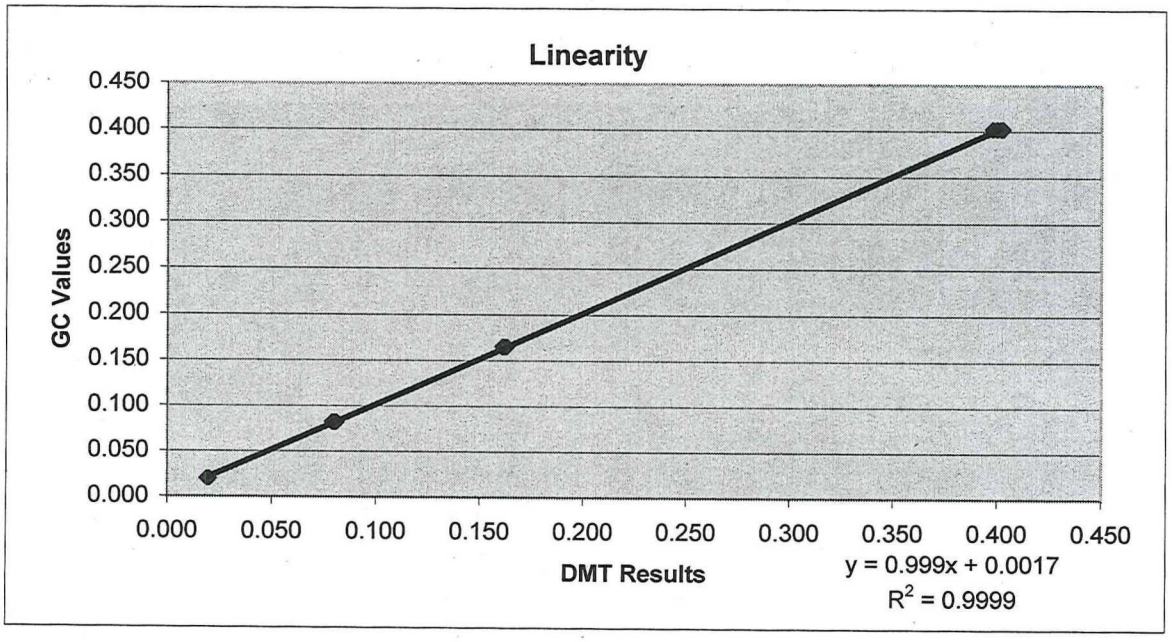
Linearity Test #1	Linearity Test #2	Linearity Test #3	Linearity Test #4	Linearity Test #5	Data Download	In-House & 2nd Source Calibration Check		
						NIST Temp.°C	Lot. #	Result (g/210L)
01/04/12 KKK 1-5-12	1-5-12 KKK	1-5-12 KKK	01/06/12 KKK	01/06/12 KKK	1-6-12 KKK	34.0	12-39-100	0.100 1-6-12 KKK
						34.0	GuTH 11050	0.101 01/06/12 KKK

Notes: Power-Up started 12/30/11 KKK 1-3-12
Calibration Solution NIST Temp. = 34.1°C KKK 1-3-12
Calibration H_2O Solution NIST Temp = 34.0°C KKK 1-3-12

Analyst: 01/10/12 **Reviewer:** 1/10/12 **Reviewer:** 1-10-12

DataMaster DMT Serial Number 123206

Operator	Date	GC Value	DMT Average	Std Dev	% Recovery
SRM	1/4/2012	0.020	0.019	0.000	95
KLK	1/4/2012	0.082	0.080	0.000	97
SRM	1/4/2012	0.165	0.162	0.000	98
SRM	1/4/2012	0.402	0.400	0.000	99
KLK	1/5/2012	0.020	0.019	0.000	95
KLK	1/5/2012	0.082	0.079	0.000	96
KLK	1/5/2012	0.165	0.162	0.000	98
SRM	1/5/2012	0.402	0.398	0.000	99
SRM	1/5/2012	0.020	0.020	0.000	100
KLK	1/5/2012	0.082	0.081	0.000	98
SRM	1/5/2012	0.165	0.161	0.000	97
SRM	1/5/2012	0.402	0.403	0.000	100
KLK	1/6/2012	0.020	0.019	0.000	95
KLK	1/6/2012	0.082	0.081	0.000	98
KLK	1/6/2012	0.165	0.163	0.000	98
KLK	1/6/2012	0.402	0.403	0.000	100
SRM	1/6/2012	0.020	0.019	0.000	95
SRM	1/6/2012	0.082	0.081	0.000	98
SRM	1/6/2012	0.165	0.162	0.000	98
SRM	1/6/2012	0.402	0.402	0.000	100
			Average	0.0000	98
			Std Dev	0.0000	
			Range		95 - 100



Log On Record History

Test Date	Test Time	Name
01/03/2012	07:09:08	Steven Merrill
01/03/2012	11:26:57	Kirk Kimball
01/03/2012	11:46:14	Kirk Kimball
01/03/2012	13:59:44	Kirk Kimball
01/04/2012	07:03:43	Steven Merrill
01/04/2012	13:40:41	Steven Merrill
01/04/2012	14:53:43	Steven Merrill
01/05/2012	07:05:41	Kirk Kimball
01/05/2012	07:49:19	Kirk Kimball
01/05/2012	08:40:41	Kirk Kimball
01/05/2012	12:00:35	Kirk Kimball
01/05/2012	14:08:49	Kirk Kimball
01/05/2012	14:53:11	Steven Merrill
01/05/2012	15:49:54	Kirk Kimball
01/06/2012	07:52:36	Kirk Kimball
01/06/2012	08:10:18	Kirk Kimball
01/06/2012	09:23:03	Kirk Kimball
01/06/2012	10:09:48	Steven Merrill
01/06/2012	15:02:00	Kirk Kimball

SECTION 2

POWER UP TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 123206
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 01/03/2012
Test Time: 11:48:15

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 44.8°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.78 V
Bias Voltage = 80 V
Chopper Freq = 533 Hz

PUMP INFO
Flow Rate = 4.558 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0028	0.0024
MIN(V)	-0.0051	0.0006

FILTER INFO
Filter 1 0.001 Zero = true
Filter 2 0.372 Zero = true
Filter 3 1.389 Zero = true

CALIBRATION CHECK
Xq = 0.081 0.87%

CALIBRATION REPORT

DataMaster DMT: 123206
Calibration Date: 01/03/2012
Calibrated by: KIRK L KIMBALL
Lot: 12-33-100

Ca = 0.100				
CAL = 0.992203	0.800	<=	CAL	< 1.200
b1 = 0.000	0.000	<=	b1	< 0.004
b2 = 0.004	0.002	<=	b2	< 0.010
b3 = 0.000	0.000	<=	b3	< 0.004
Xq = 0.081	0.050	<=	Xq	< 0.200
a21 = 1.170273	1.050	<=	a21	< 1.300
a31 = 0.436501	0.300	<=	a31	< 0.800

Performed by KLK Date 01/03/2012

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/03/2012
Time: 14:09:29

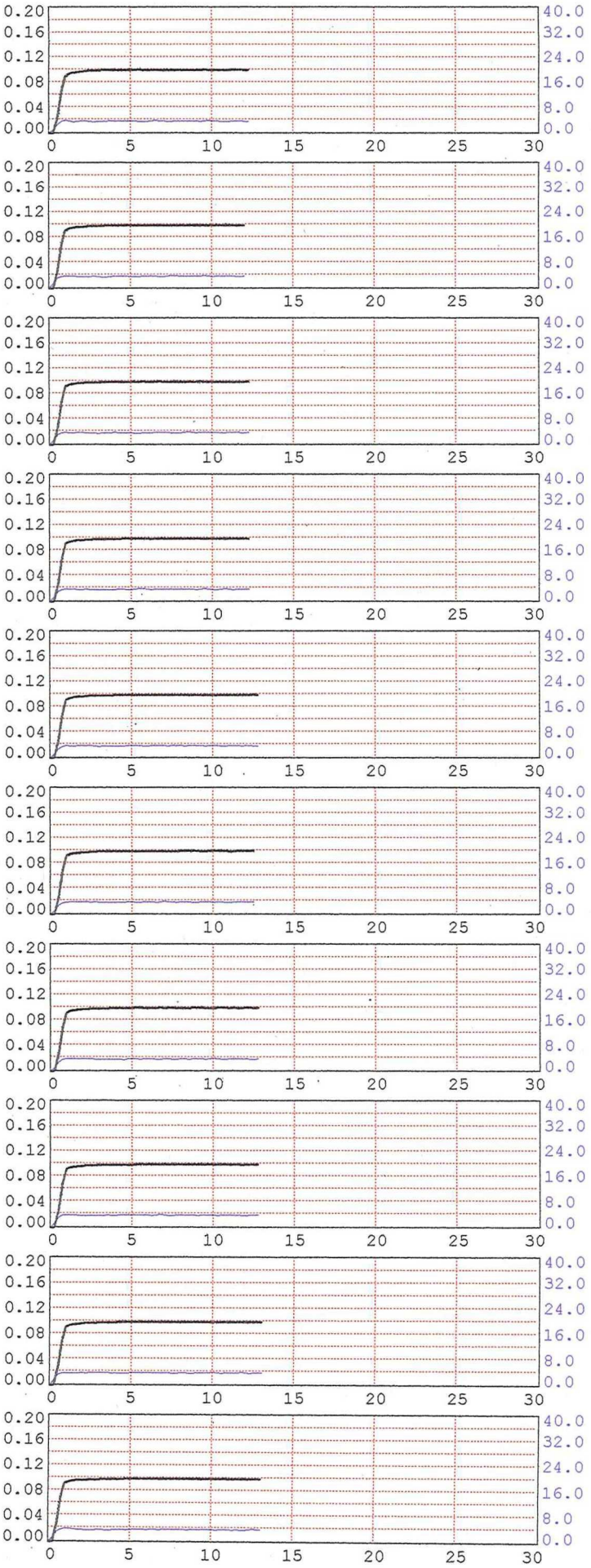
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-39-100
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	14:10
CALIBRATION CHECK	PASSED	14:10
SIMULATOR VAPOR 34.2°C	0.101	14:10
SIMULATOR VAPOR 34.2°C	0.100	14:11
SIMULATOR VAPOR 34.2°C	0.100	14:12
SIMULATOR VAPOR 34.2°C	0.100	14:13
SIMULATOR VAPOR 34.2°C	0.100	14:15
SIMULATOR VAPOR 34.2°C	0.100	14:16
SIMULATOR VAPOR 34.2°C	0.100	14:17
SIMULATOR VAPOR 34.2°C	0.099	14:18
SIMULATOR VAPOR 34.2°C	0.100	14:19
SIMULATOR VAPOR 34.2°C	0.099	14:20
BLANK TEST	0.000	14:21

Average = 0.099
Std Dev = 0.000

Inhouse
Cal Check
KLK
1-3-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/03/2012
Time: 14:28:03

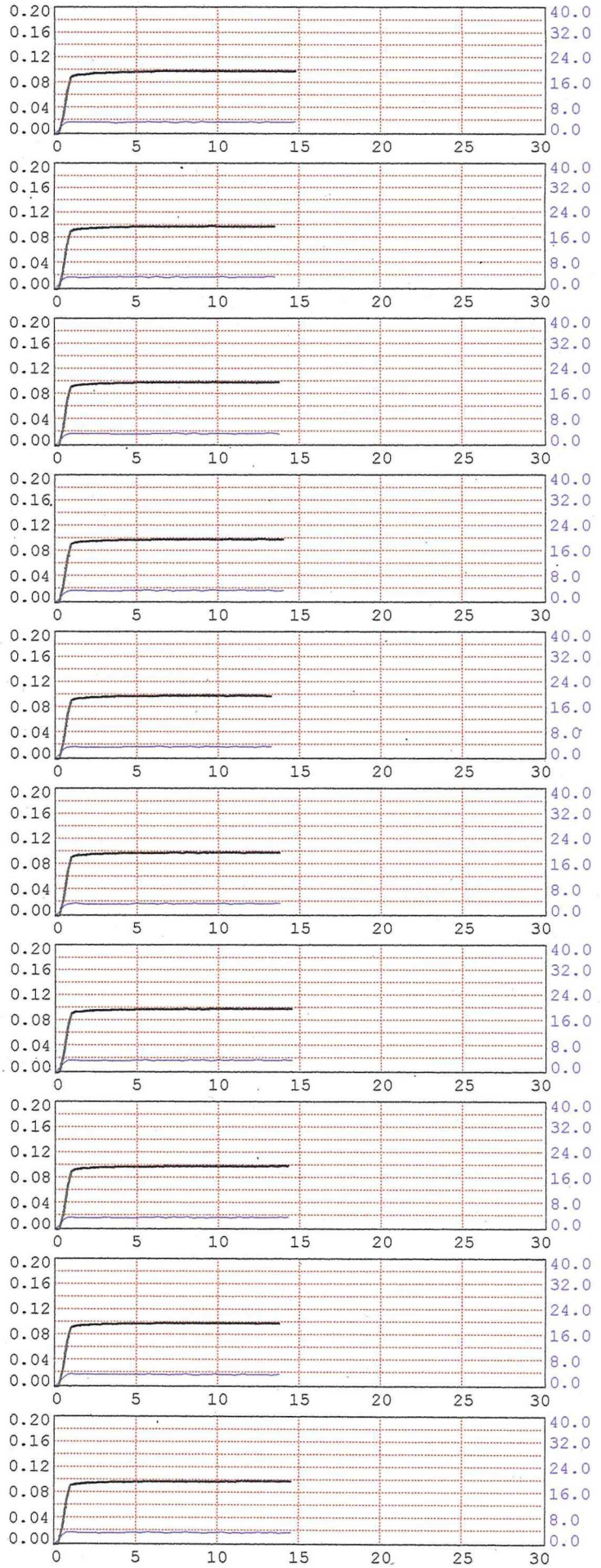
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: GUTH 11050
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	14:28
CALIBRATION CHECK	PASSED	14:29
SIMULATOR VAPOR 34.1°C	0.099	14:29
SIMULATOR VAPOR 34.1°C	0.099	14:30
SIMULATOR VAPOR 34.0°C	0.100	14:31
SIMULATOR VAPOR 34.1°C	0.100	14:32
SIMULATOR VAPOR 34.1°C	0.099	14:33
SIMULATOR VAPOR 34.2°C	0.099	14:34
SIMULATOR VAPOR 34.1°C	0.099	14:35
SIMULATOR VAPOR 34.1°C	0.100	14:36
SIMULATOR VAPOR 34.1°C	0.100	14:38
SIMULATOR VAPOR 34.1°C	0.099	14:39
BLANK TEST	0.000	14:39

Average = 0.099
Std Dev = 0.000

2nd Source Calcheck KLK 1-3-12



DIAGNOSTIC RESULT

DataMaster DMT: 123206
Location:
Calibration Date: 01/03/2012
Certification Date:
Installation Date:
Test Date: 01/04/2012
Test Time: 07:03:44

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 40.2°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.77 V
Bias Voltage = 80 V
Chopper Freq = 526 Hz

PUMP INFO
Flow Rate = 4.471 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0366	-0.0311
MIN(V)	-0.0384	-0.0329

FILTER INFO
Filter 1 -0.033 Zero = true
Filter 2 0.338 Zero = true
Filter 3 1.348 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.64%

CERTIFICATION REPORT

DataMaster DMT: 123206
Calibration Date: 01/03/2012
Certification Date: 01/04/2012
Certified by: STEVEN R MERRILL

Diagnostic Results

```
VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube    = 40.0°C
Digital Sim    = 0.0°C

SETTINGS
Lamp Voltage   = 1.73 V
Cooler Voltage = 1.78 V
Bias Voltage   = 80 V
Chopper Freq   = 527 Hz

PUMP INFO
Flow Rate = 4.480 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   -0.0354   -0.0299
MIN(V)   -0.0380   -0.0325

FILTER INFO
Filter 1  -0.032  Zero = true
Filter 2   0.339  Zero = true
Filter 3   1.347  Zero = true

CALIBRATION CHECK
Xq  = 0.081  0.21%
```

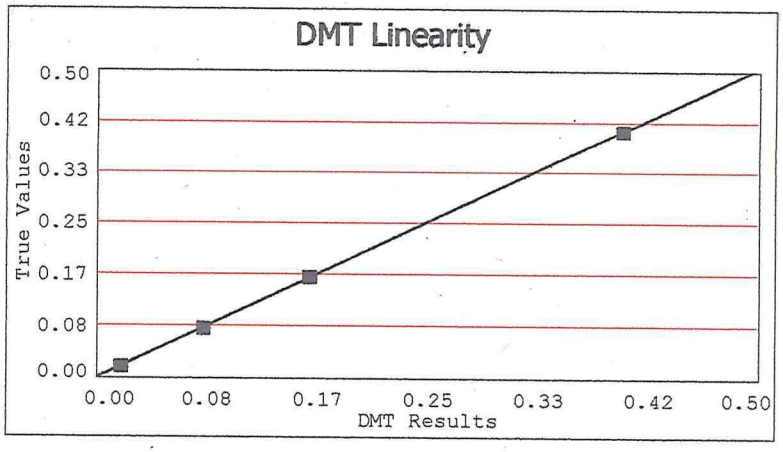
Options

```
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
```

Linearity Check Results

True Value	Reported Average	Std Dev
0.020 g/210L Lot # 12-46-020	0.018 g/210L	0.0000
0.082 g/210L Lot # 12-41-080	0.080 g/210L	0.0010
0.165 g/210L Lot # 12-42-160	0.160 g/210L	0.0000
0.402 g/210L Lot # 12-47-400	0.396 g/210L	0.0000

$R^2 = 1$



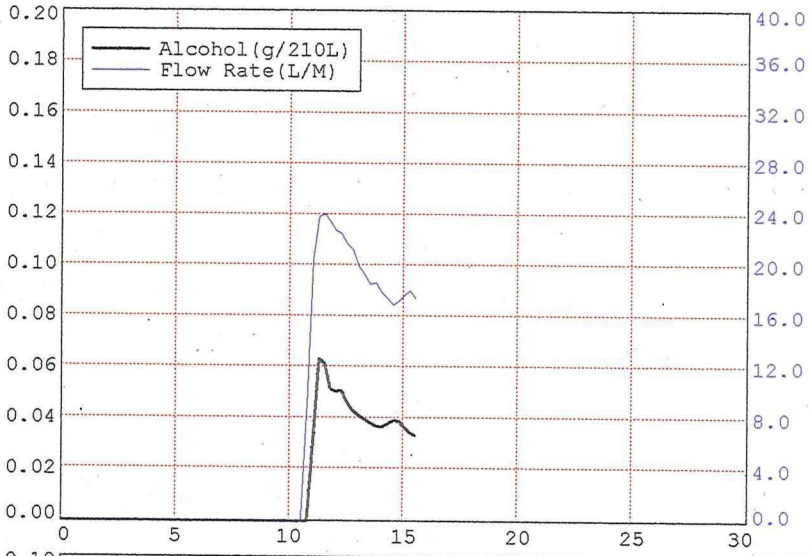
Acetone Interference Test

Lot # 12-41-080A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

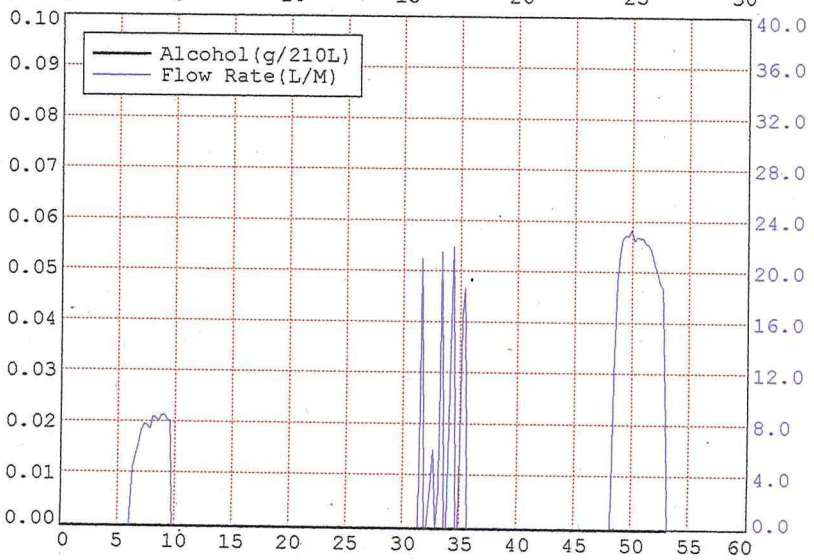


RF Detection Test

Passed

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ Date 01/04/2012

Reviewed by _____ Date 1-4-2012

DMT Serial Number #123206

01/04/2012 11:10 AM

SECTION 3

LINEARITY TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 123206
Location:
Calibration Date: 01/03/2012
Certification Date: 01/04/2012
Installation Date:
Test Date: 01/04/2012
Test Time: 13:40:54

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 43.7°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.77 V
Bias Voltage = 80 V
Chopper Freq = 530 Hz

PUMP INFO
Flow Rate = 4.572 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0065	0.0110
MIN(V)	0.0047	0.0091

FILTER INFO
Filter 1 0.010 Zero = true
Filter 2 0.382 Zero = true
Filter 3 1.396 Zero = true

CALIBRATION CHECK
Xq = 0.081 0.64%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/04/2012
Time: 14:55:41

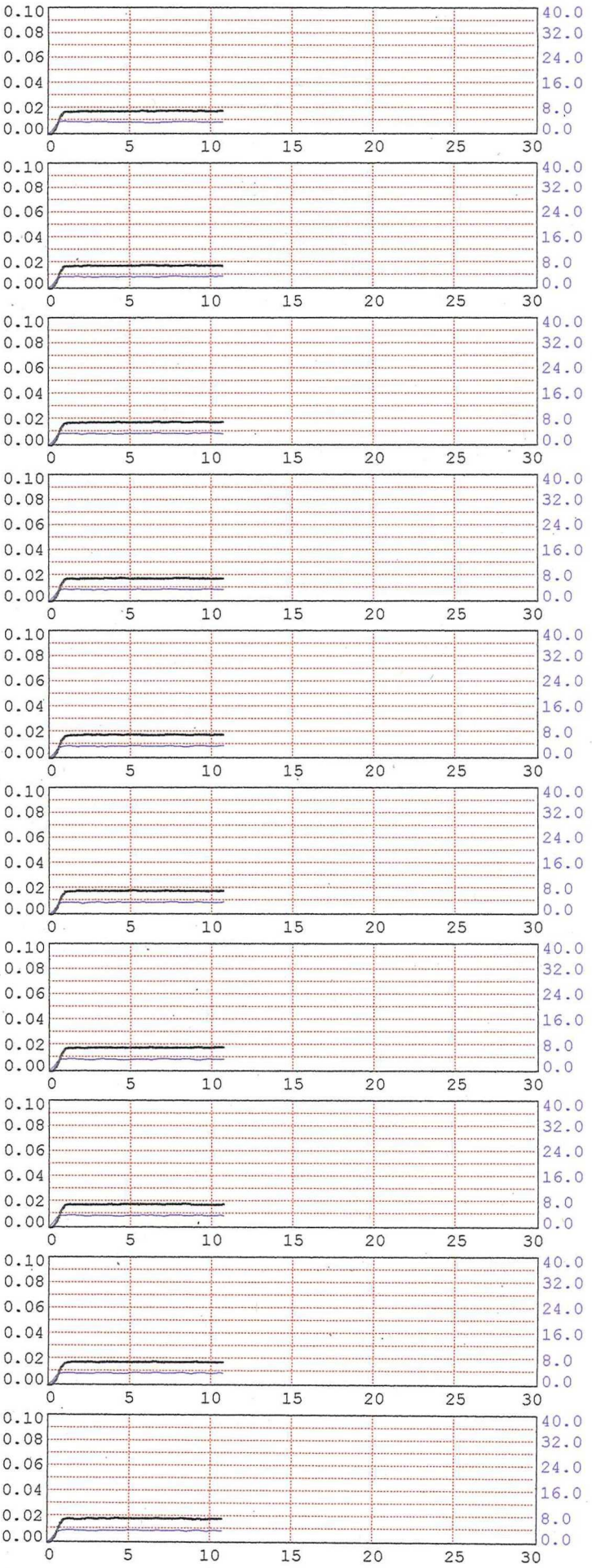
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-46-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	14:56
CALIBRATION CHECK	PASSED	14:56
SIMULATOR VAPOR 34.4°C	0.020	14:56
SIMULATOR VAPOR 34.2°C	0.019	14:57
SIMULATOR VAPOR 34.2°C	0.019	14:59
SIMULATOR VAPOR 34.2°C	0.019	15:00
SIMULATOR VAPOR 34.2°C	0.019	15:01
SIMULATOR VAPOR 34.2°C	0.019	15:02
SIMULATOR VAPOR 34.2°C	0.020	15:03
SIMULATOR VAPOR 34.2°C	0.019	15:04
SIMULATOR VAPOR 34.2°C	0.019	15:05
SIMULATOR VAPOR 34.4°C	0.020	15:06
BLANK TEST	0.000	15:07

Average = 0.019
Std Dev = 0.000

Li 01/04/12 SM



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/04/2012
Time: 15:09:27

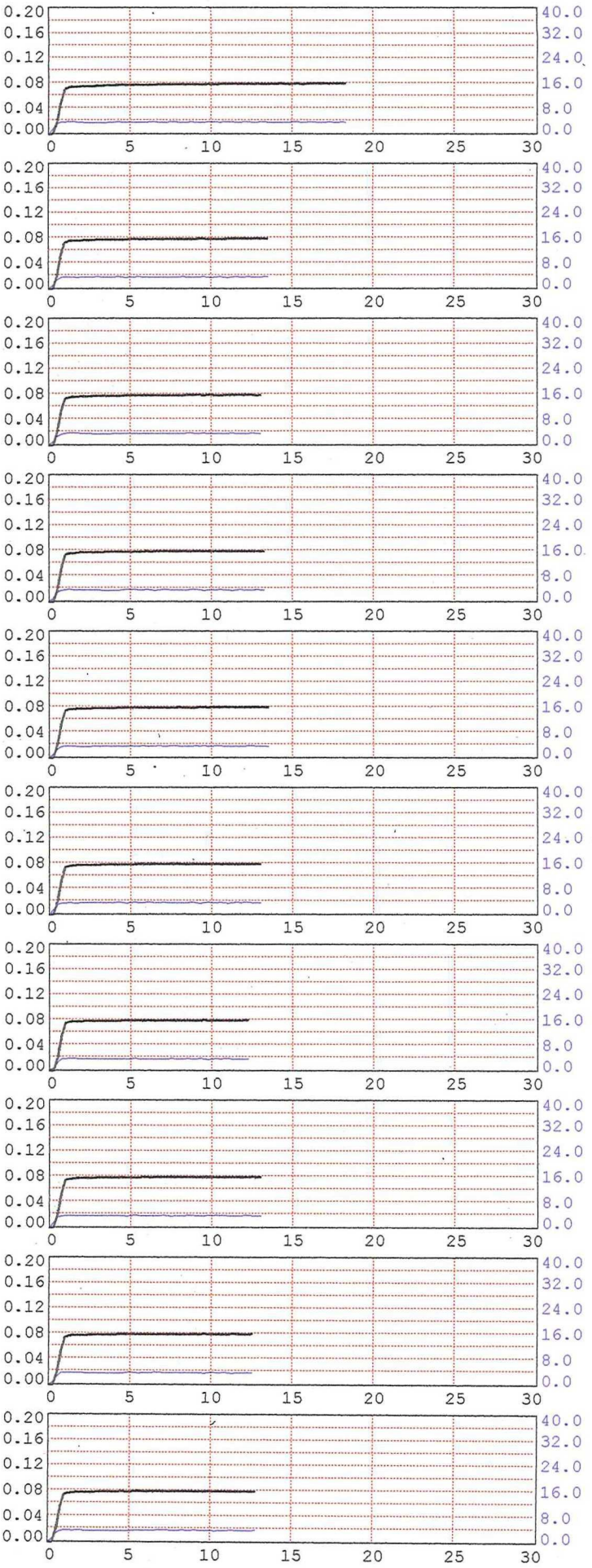
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-41-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	15:10
CALIBRATION CHECK	PASSED	15:10
SIMULATOR VAPOR 34.4°C	0.080	15:10
SIMULATOR VAPOR 34.2°C	0.080	15:11
SIMULATOR VAPOR 34.2°C	0.080	15:13
SIMULATOR VAPOR 34.4°C	0.080	15:14
SIMULATOR VAPOR 34.2°C	0.080	15:15
SIMULATOR VAPOR 34.2°C	0.080	15:16
SIMULATOR VAPOR 34.2°C	0.080	15:17
SIMULATOR VAPOR 34.2°C	0.080	15:18
SIMULATOR VAPOR 34.2°C	0.080	15:19
SIMULATOR VAPOR 34.2°C	0.080	15:20
BLANK TEST	0.000	15:21

Average = 0.080
Std Dev = 0.000

L. 01/04/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/04/2012
Time: 15:24:10

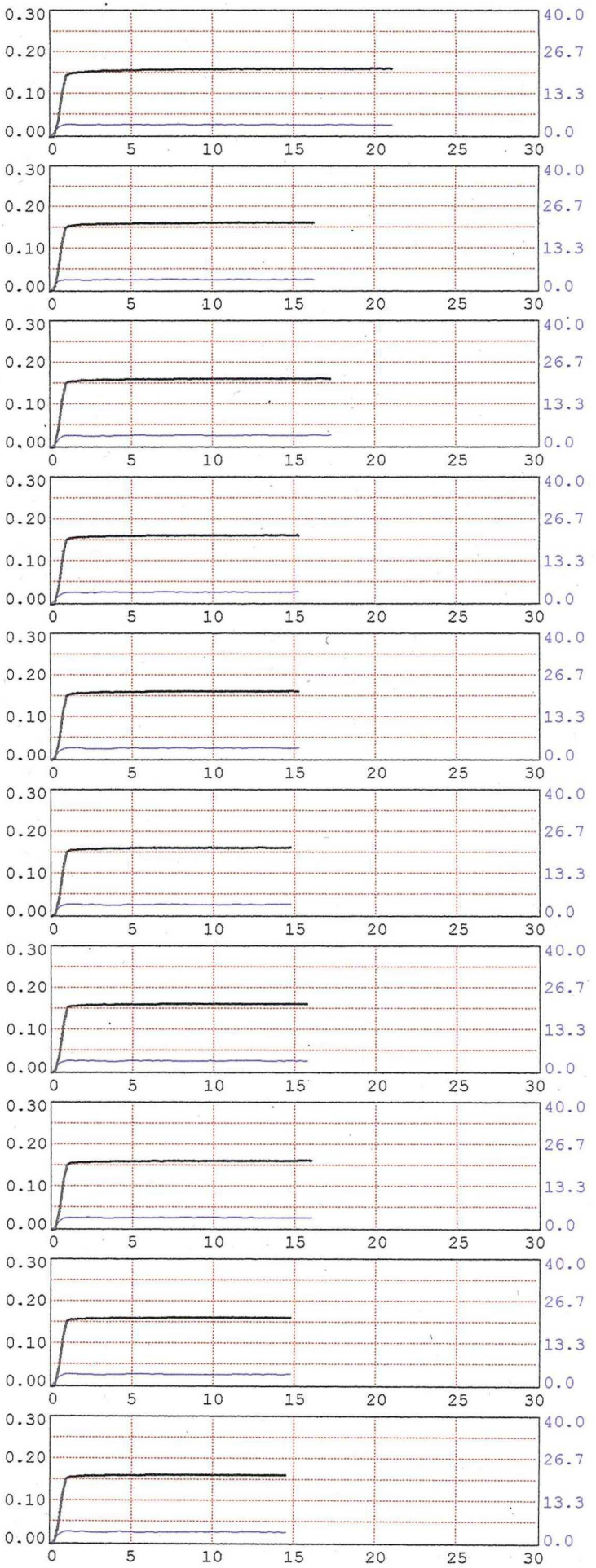
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-42-160
SOLUTION CONCENTRATION: 0.165

BLANK TEST	0.000	15:25
CALIBRATION CHECK	PASSED	15:25
SIMULATOR VAPOR 34.4°C	0.161	15:25
SIMULATOR VAPOR 34.2°C	0.162	15:26
SIMULATOR VAPOR 34.2°C	0.162	15:27
SIMULATOR VAPOR 34.2°C	0.163	15:29
SIMULATOR VAPOR 34.2°C	0.162	15:30
SIMULATOR VAPOR 34.2°C	0.162	15:31
SIMULATOR VAPOR 34.2°C	0.162	15:32
SIMULATOR VAPOR 34.2°C	0.162	15:33
SIMULATOR VAPOR 34.2°C	0.162	15:34
SIMULATOR VAPOR 34.2°C	0.162	15:35
BLANK TEST	0.000	15:36

Average = 0.162
Std Dev = 0.000

L1 01/04/12 SM



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/04/2012
Time: 15:39:29

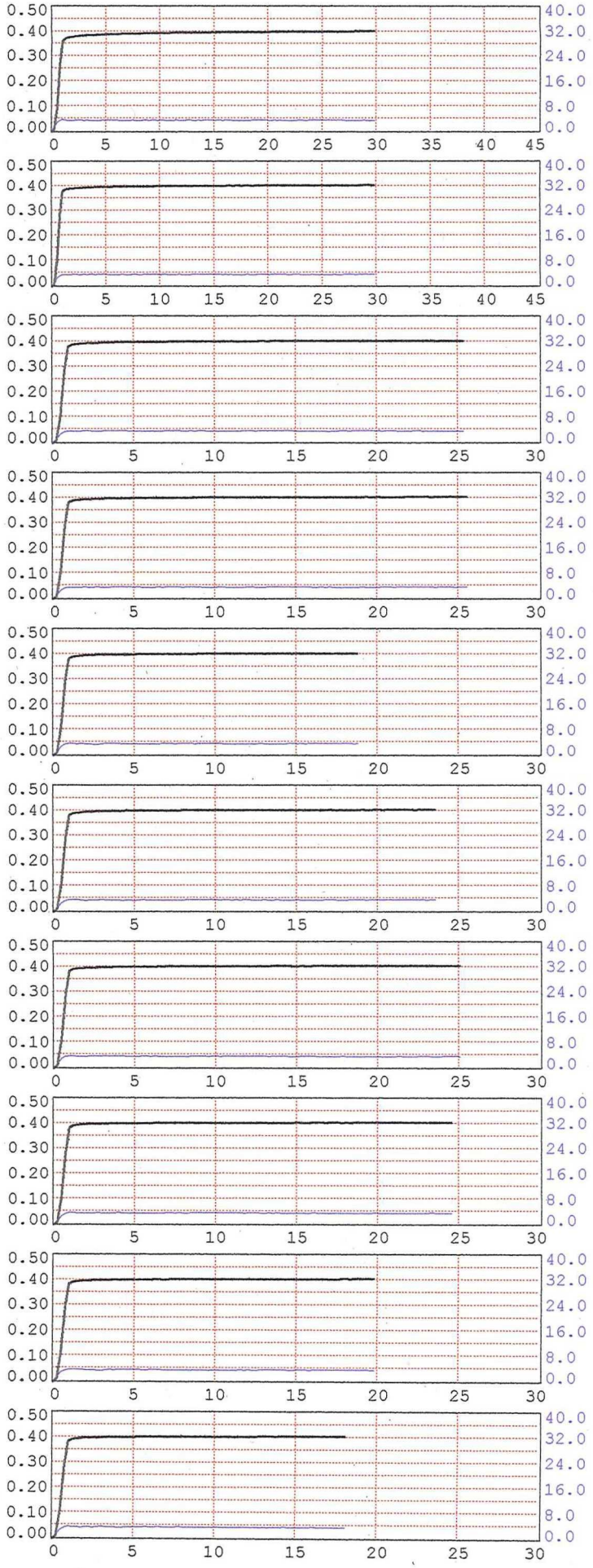
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-47-400
SOLUTION CONCENTRATION: 0.402

BLANK TEST	0.000	15:40
CALIBRATION CHECK	PASSED	15:40
SIMULATOR VAPOR 34.2°C	0.399	15:41
SIMULATOR VAPOR 34.2°C	0.401	15:42
SIMULATOR VAPOR 34.2°C	0.400	15:43
SIMULATOR VAPOR 34.2°C	0.401	15:45
SIMULATOR VAPOR 34.2°C	0.400	15:46
SIMULATOR VAPOR 34.2°C	0.401	15:47
SIMULATOR VAPOR 34.2°C	0.402	15:48
SIMULATOR VAPOR 34.1°C	0.402	15:50
SIMULATOR VAPOR 34.2°C	0.401	15:51
SIMULATOR VAPOR 34.2°C	0.401	15:52
BLANK TEST	0.000	15:53

Average = 0.400
Std Dev = 0.000

Li 01/04/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/05/2012
Time: 08:41:23

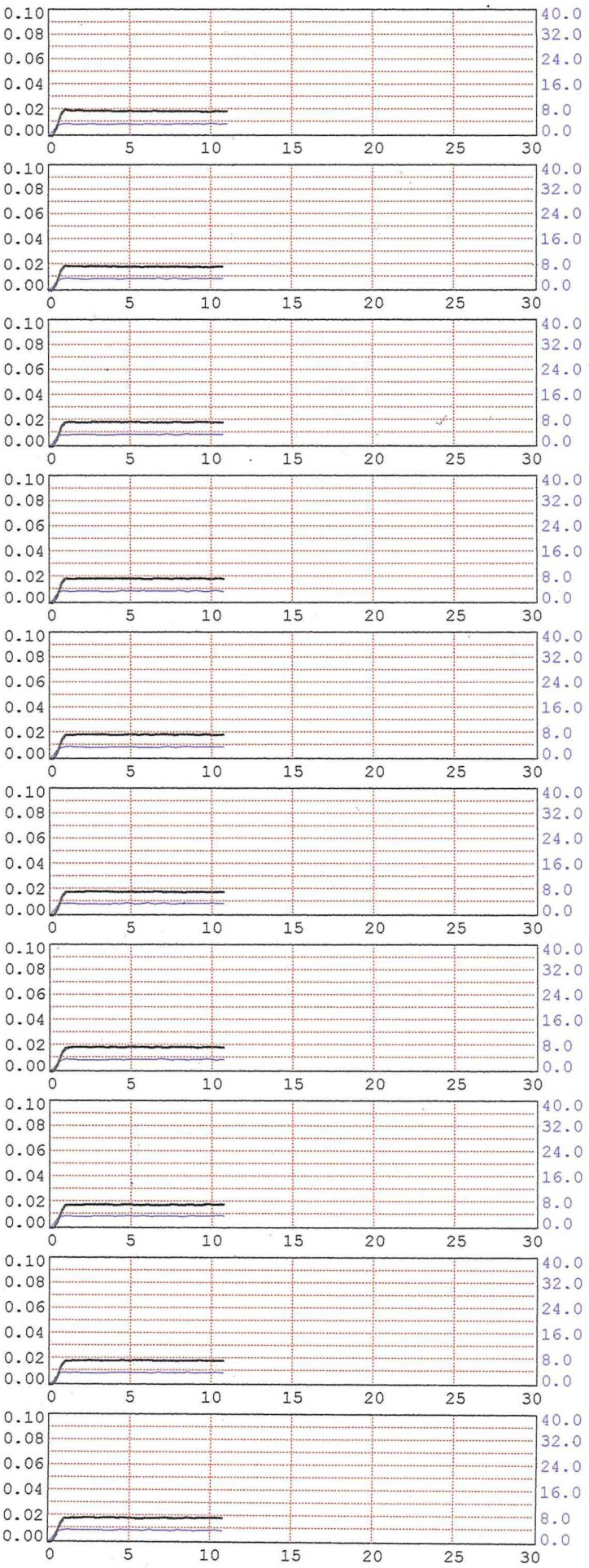
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-46-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	08:42
CALIBRATION CHECK	PASSED	08:42
SIMULATOR VAPOR 34.2°C	0.020	08:42
SIMULATOR VAPOR 34.2°C	0.020	08:43
SIMULATOR VAPOR 34.2°C	0.020	08:44
SIMULATOR VAPOR 34.2°C	0.020	08:45
SIMULATOR VAPOR 34.2°C	0.020	08:46
SIMULATOR VAPOR 34.2°C	0.019	08:47
SIMULATOR VAPOR 34.2°C	0.020	08:48
SIMULATOR VAPOR 34.2°C	0.019	08:49
SIMULATOR VAPOR 34.1°C	0.020	08:50
SIMULATOR VAPOR 34.1°C	0.020	08:51
BLANK TEST	0.000	08:52

Average = 0.019
Std Dev = 0.000

L-2
1-5-12
KLK



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/05/2012
Time: 08:56:20

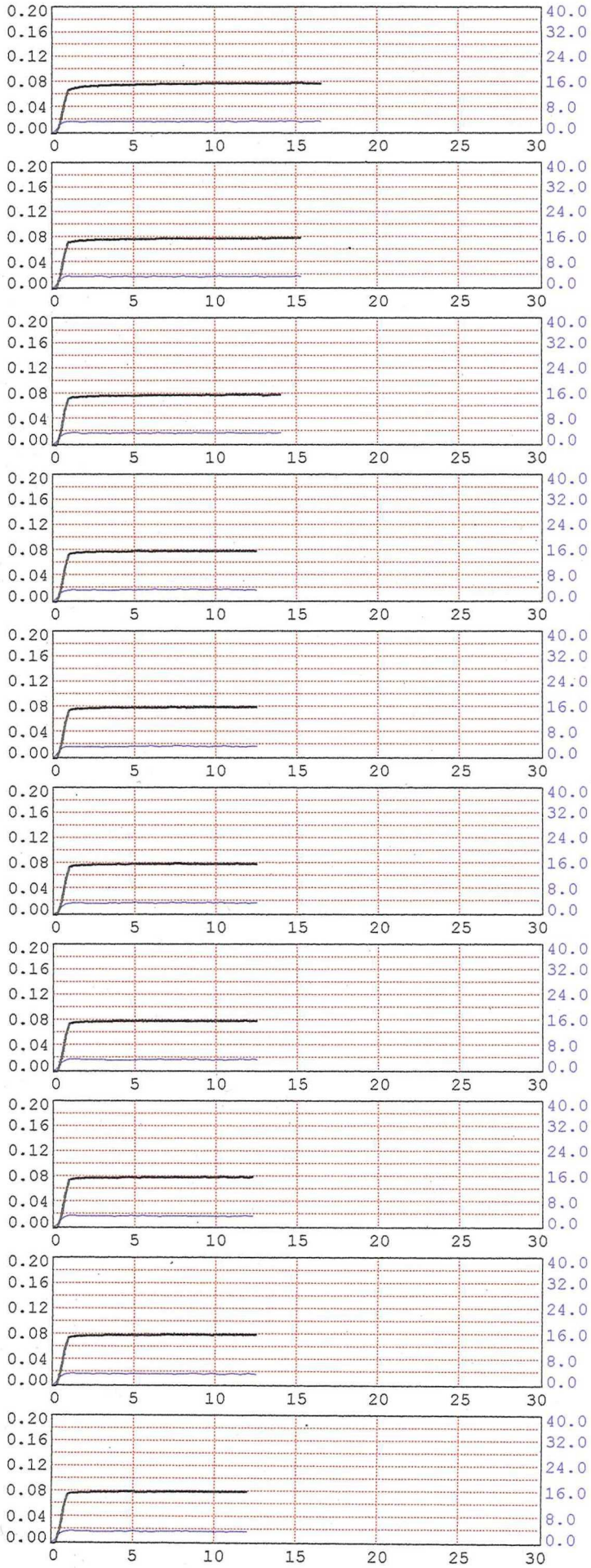
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-41-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	08:57
CALIBRATION CHECK	PASSED	08:57
SIMULATOR VAPOR 34.2°C	0.079	08:57
SIMULATOR VAPOR 34.2°C	0.080	08:58
SIMULATOR VAPOR 34.2°C	0.079	08:59
SIMULATOR VAPOR 34.2°C	0.080	09:00
SIMULATOR VAPOR 34.2°C	0.080	09:02
SIMULATOR VAPOR 34.2°C	0.080	09:03
SIMULATOR VAPOR 34.2°C	0.080	09:04
SIMULATOR VAPOR 34.2°C	0.080	09:05
SIMULATOR VAPOR 34.2°C	0.080	09:06
SIMULATOR VAPOR 34.2°C	0.081	09:07
BLANK TEST	0.000	09:08

Average = 0.079
Std Dev = 0.000

L-2
1-5-12
KLK



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/05/2012
Time: 09:12:01

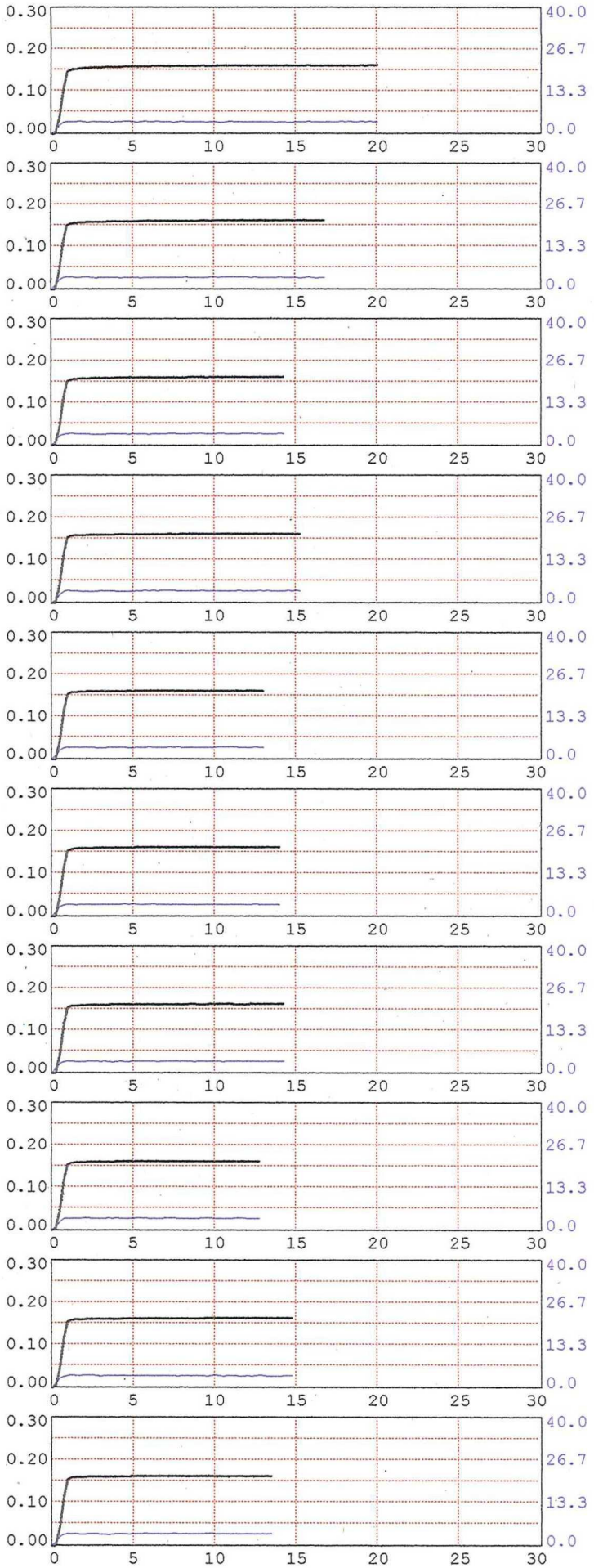
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-42-160
SOLUTION CONCENTRATION: 0.165

BLANK TEST	0.000	09:12
CALIBRATION CHECK	PASSED	09:13
SIMULATOR VAPOR 34.2°C	0.161	09:13
SIMULATOR VAPOR 34.2°C	0.162	09:14
SIMULATOR VAPOR 34.2°C	0.161	09:15
SIMULATOR VAPOR 34.2°C	0.162	09:16
SIMULATOR VAPOR 34.2°C	0.162	09:17
SIMULATOR VAPOR 34.1°C	0.162	09:18
SIMULATOR VAPOR 34.2°C	0.163	09:20
SIMULATOR VAPOR 34.2°C	0.162	09:21
SIMULATOR VAPOR 34.2°C	0.163	09:22
SIMULATOR VAPOR 34.2°C	0.162	09:23
BLANK TEST	0.000	09:24

Average = 0.162
Std Dev = 0.000

L-2
RBMC
1-5-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/05/2012
Time: 09:38:24

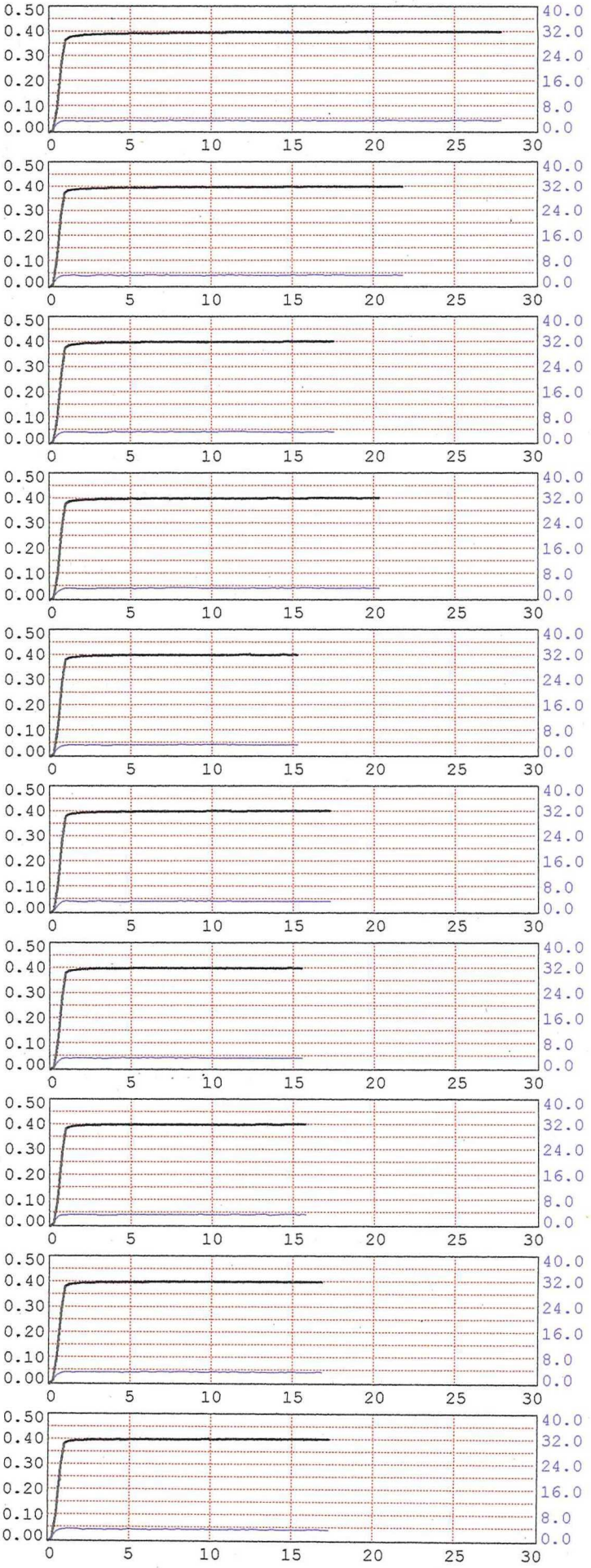
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-47-400
SOLUTION CONCENTRATION: 0.402

BLANK TEST	0.000	09:39
CALIBRATION CHECK	PASSED	09:39
SIMULATOR VAPOR 34.2°C	0.397	09:39
SIMULATOR VAPOR 34.2°C	0.397	09:41
SIMULATOR VAPOR 34.2°C	0.398	09:42
SIMULATOR VAPOR 34.2°C	0.399	09:43
SIMULATOR VAPOR 34.2°C	0.399	09:44
SIMULATOR VAPOR 34.2°C	0.399	09:45
SIMULATOR VAPOR 34.2°C	0.398	09:46
SIMULATOR VAPOR 34.1°C	0.399	09:48
SIMULATOR VAPOR 34.2°C	0.398	09:49
SIMULATOR VAPOR 34.1°C	0.399	09:50
BLANK TEST	0.000	09:51

Average = 0.398
Std Dev = 0.000

L-2
1-5-12
WRC



DIAGNOSTIC RESULT

DataMaster DMT: 123206
Location:
Calibration Date: 01/03/2012
Certification Date: 01/04/2012
Installation Date:
Test Date: 01/05/2012
Test Time: 12:00:37

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 45.9°C
Digital Sim = 34.1°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.77 V
Bias Voltage = 80 V
Chopper Freq = 531 Hz

PUMP INFO
Flow Rate = 4.472 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0423	0.0455
MIN(V)	0.0402	0.0437

FILTER INFO
Filter 1 0.045 Zero = true
Filter 2 0.414 Zero = true
Filter 3 1.432 Zero = true

CALIBRATION CHECK
Xq = 0.081 0.43%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/05/2012
Time: 14:58:50

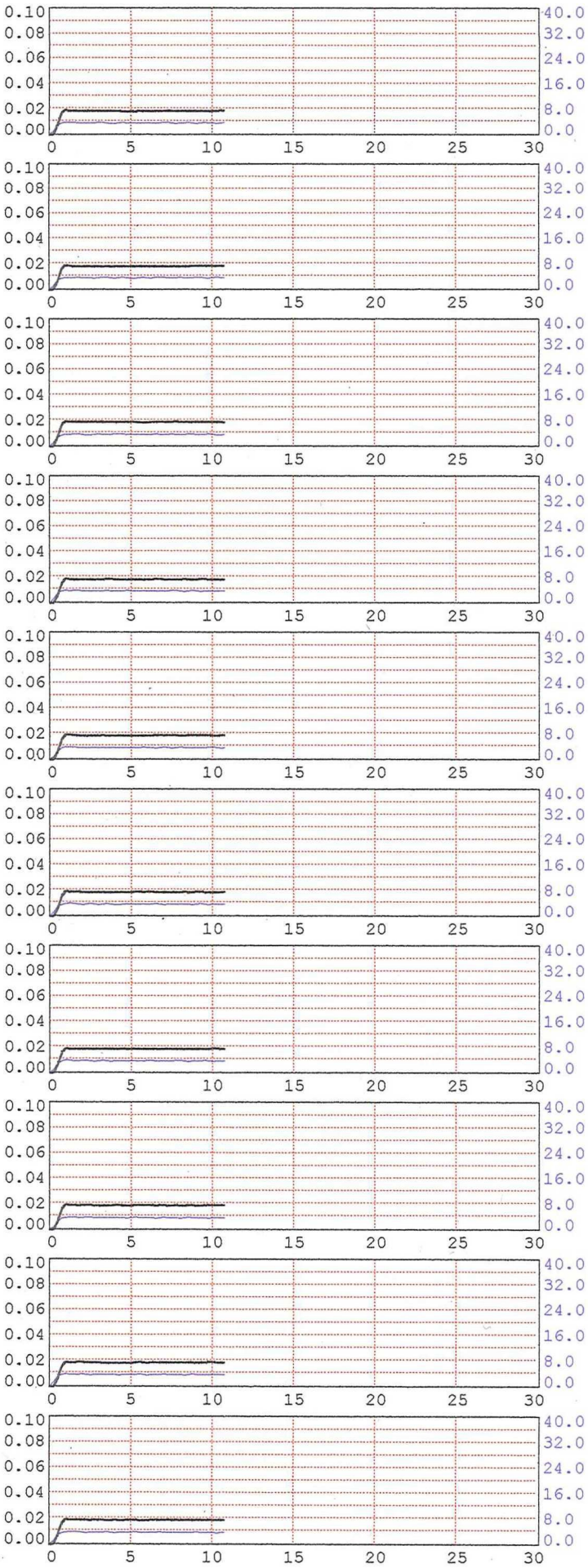
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-46-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	14:59
CALIBRATION CHECK	PASSED	14:59
SIMULATOR VAPOR 34.2°C	0.020	15:00
SIMULATOR VAPOR 34.1°C	0.020	15:01
SIMULATOR VAPOR 34.2°C	0.020	15:02
SIMULATOR VAPOR 34.2°C	0.020	15:03
SIMULATOR VAPOR 34.1°C	0.020	15:04
SIMULATOR VAPOR 34.2°C	0.020	15:05
SIMULATOR VAPOR 34.2°C	0.020	15:06
SIMULATOR VAPOR 34.2°C	0.020	15:07
SIMULATOR VAPOR 34.2°C	0.020	15:08
SIMULATOR VAPOR 34.2°C	0.020	15:09
BLANK TEST	0.000	15:10

Average = 0.020
Std Dev = 0.000

L-3
RMC
1-6-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/05/2012
Time: 15:51:14

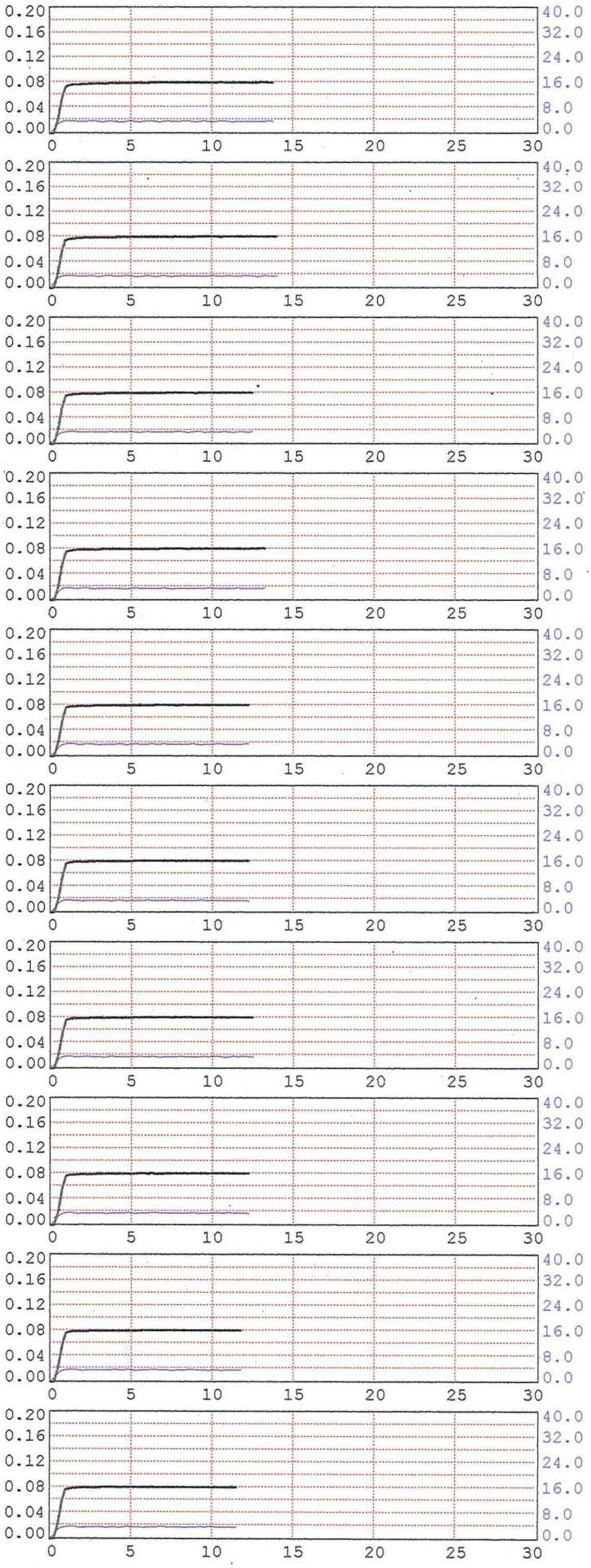
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-41-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	15:52
CALIBRATION CHECK	PASSED	15:52
SIMULATOR VAPOR 34.1°C	0.081	15:52
SIMULATOR VAPOR 34.2°C	0.081	15:53
SIMULATOR VAPOR 34.2°C	0.081	15:54
SIMULATOR VAPOR 34.2°C	0.081	15:55
SIMULATOR VAPOR 34.2°C	0.081	15:56
SIMULATOR VAPOR 34.1°C	0.082	15:57
SIMULATOR VAPOR 34.2°C	0.081	15:58
SIMULATOR VAPOR 34.2°C	0.081	16:00
SIMULATOR VAPOR 34.2°C	0.081	16:01
SIMULATOR VAPOR 34.2°C	0.082	16:02
BLANK TEST	0.000	16:02

Average = 0.081
Std Dev = 0.000

L-3
RLL
1-6-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/05/2012
Time: 16:11:47

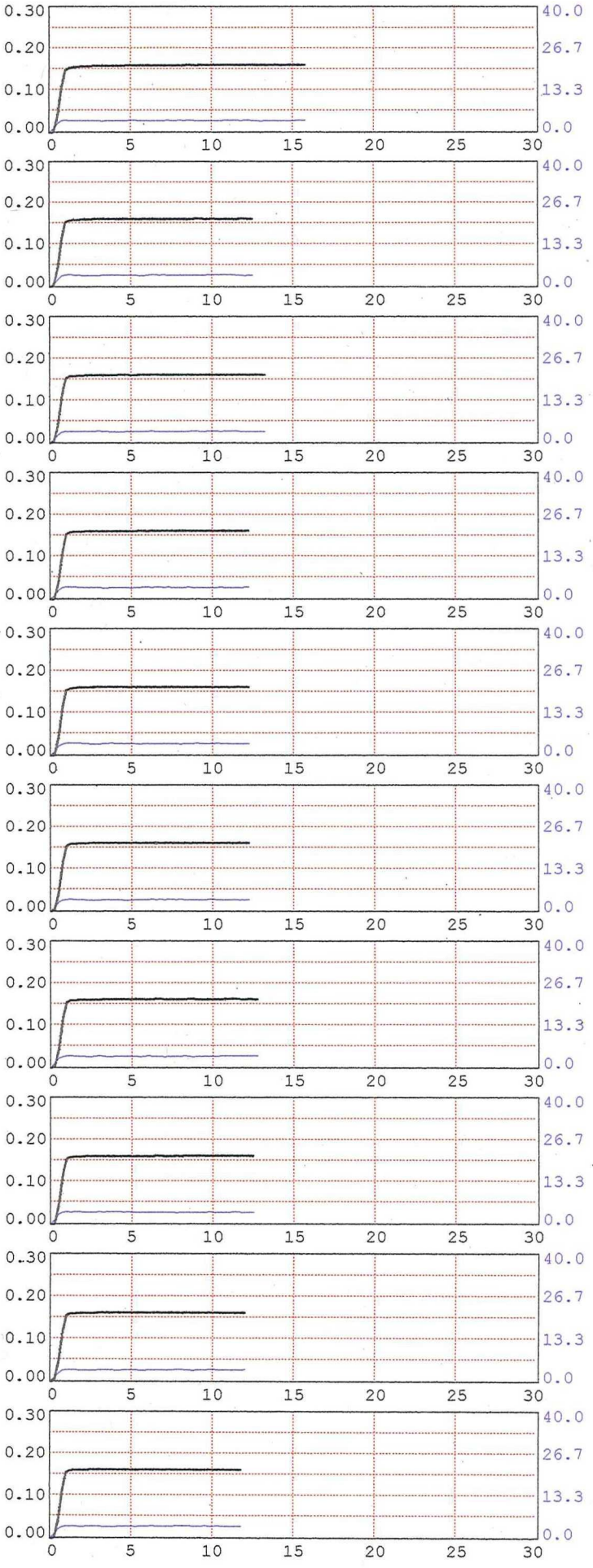
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-42-160
SOLUTION CONCENTRATION: 0.165

BLANK TEST	0.000	16:12
CALIBRATION CHECK	PASSED	16:12
SIMULATOR VAPOR 34.2°C	0.160	16:13
SIMULATOR VAPOR 34.1°C	0.161	16:14
SIMULATOR VAPOR 34.1°C	0.162	16:15
SIMULATOR VAPOR 34.2°C	0.162	16:16
SIMULATOR VAPOR 34.1°C	0.162	16:17
SIMULATOR VAPOR 34.2°C	0.162	16:18
SIMULATOR VAPOR 34.1°C	0.162	16:19
SIMULATOR VAPOR 34.2°C	0.161	16:20
SIMULATOR VAPOR 34.1°C	0.162	16:21
SIMULATOR VAPOR 34.2°C	0.162	16:22
BLANK TEST	0.000	16:23

Average = 0.161
Std Dev = 0.000

RMC
L-3
1-6-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/05/2012
Time: 16:30:22

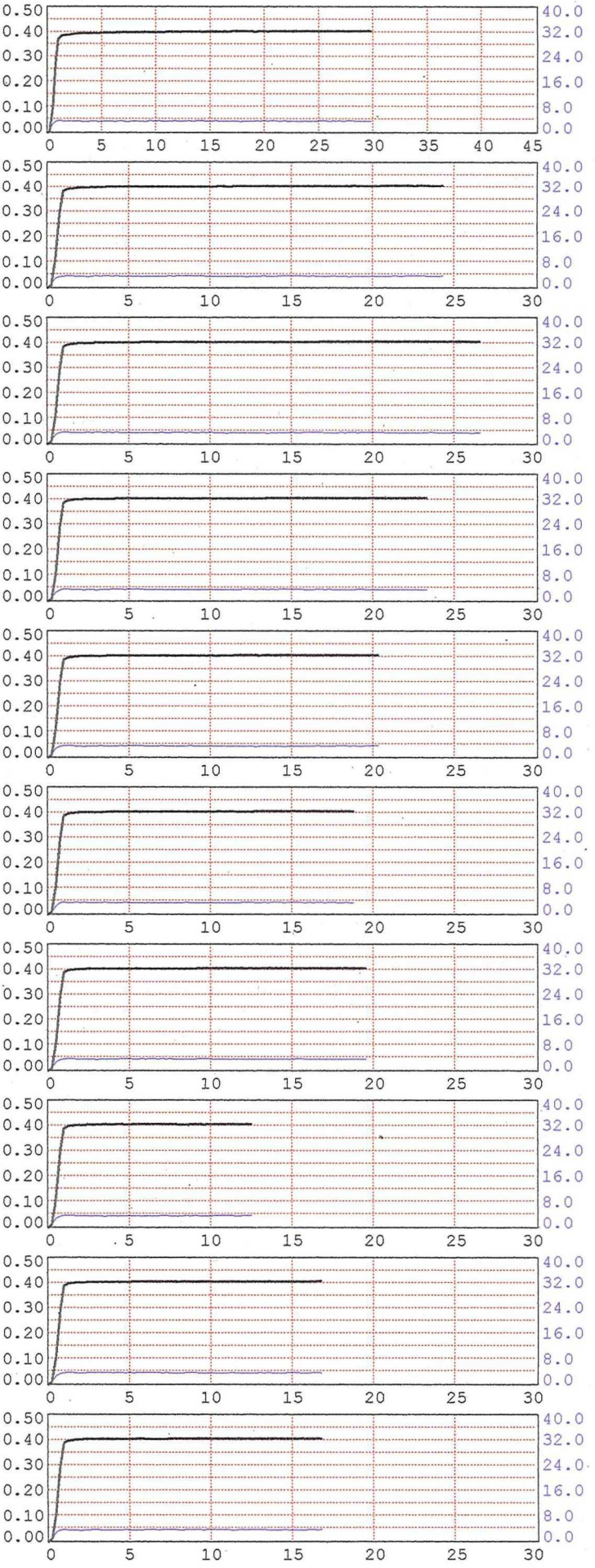
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-47-400
SOLUTION CONCENTRATION: 0.402

BLANK TEST	0.000	16:31
CALIBRATION CHECK	PASSED	16:31
SIMULATOR VAPOR 34.2°C	0.402	16:31
SIMULATOR VAPOR 34.1°C	0.403	16:33
SIMULATOR VAPOR 34.1°C	0.404	16:34
SIMULATOR VAPOR 34.1°C	0.404	16:35
SIMULATOR VAPOR 34.2°C	0.404	16:37
SIMULATOR VAPOR 34.1°C	0.403	16:38
SIMULATOR VAPOR 34.2°C	0.404	16:39
SIMULATOR VAPOR 34.1°C	0.403	16:40
SIMULATOR VAPOR 34.2°C	0.405	16:41
SIMULATOR VAPOR 34.2°C	0.404	16:42
BLANK TEST	0.000	16:43

Average = 0.403
Std Dev = 0.000

L-3
RCM
1-6-12



DIAGNOSTIC RESULT

DataMaster DMT: 123206
Location:
Calibration Date: 01/03/2012
Certification Date: 01/04/2012
Installation Date:
Test Date: 01/06/2012
Test Time: 07:52:38

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 45.4°C
Digital Sim = 34.2°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.78 V
Bias Voltage = 80 V
Chopper Freq = 533 Hz

PUMP INFO
Flow Rate = 4.490 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0352	0.0390
MIN(V)	0.0335	0.0374

FILTER INFO
Filter 1 0.038 Zero = true
Filter 2 0.408 Zero = true
Filter 3 1.425 Zero = true

CALIBRATION CHECK
Xq = 0.081 0.32%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 08:11:34

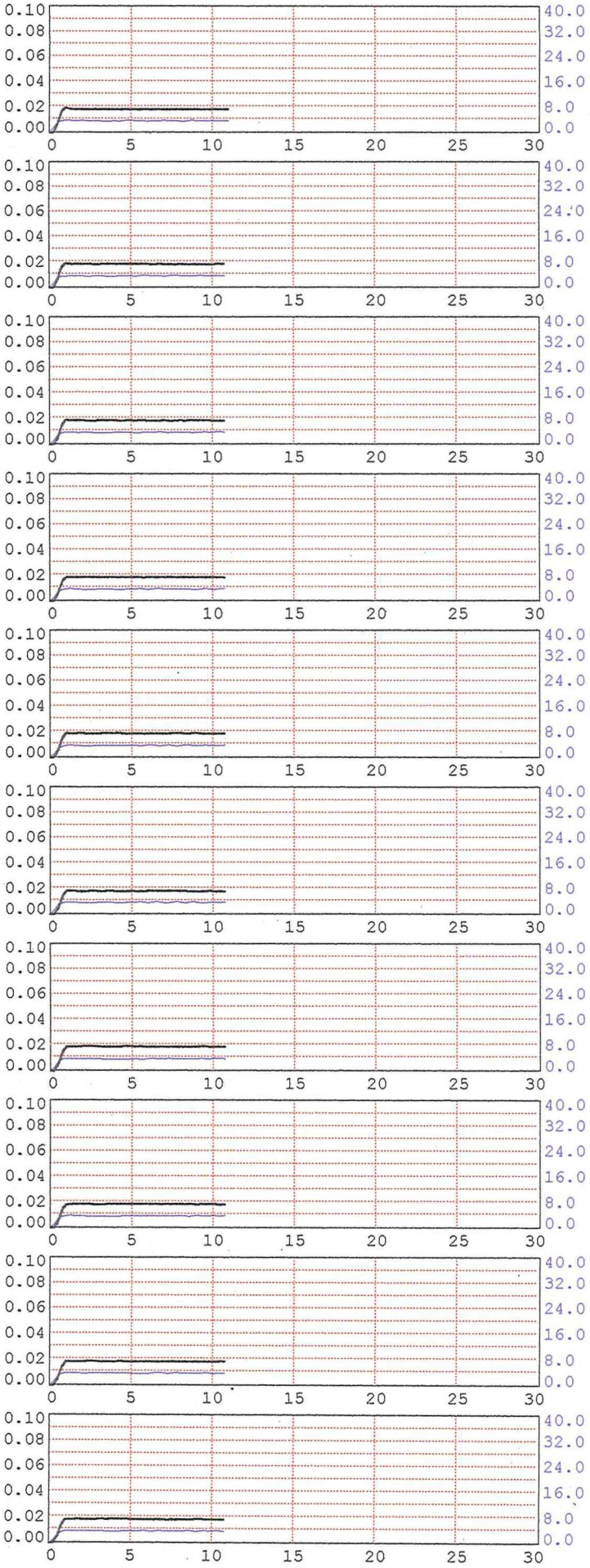
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-46-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	08:12
CALIBRATION CHECK	PASSED	08:12
SIMULATOR VAPOR 34.4°C	0.020	08:12
SIMULATOR VAPOR 34.2°C	0.020	08:13
SIMULATOR VAPOR 34.2°C	0.020	08:14
SIMULATOR VAPOR 34.2°C	0.020	08:15
SIMULATOR VAPOR 34.2°C	0.020	08:16
SIMULATOR VAPOR 34.2°C	0.019	08:17
SIMULATOR VAPOR 34.1°C	0.020	08:19
SIMULATOR VAPOR 34.2°C	0.019	08:20
SIMULATOR VAPOR 34.1°C	0.019	08:21
SIMULATOR VAPOR 34.2°C	0.019	08:22
BLANK TEST	0.000	08:22

Average = 0.019
Std Dev = 0.000

LL 01/06/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 08:28:14

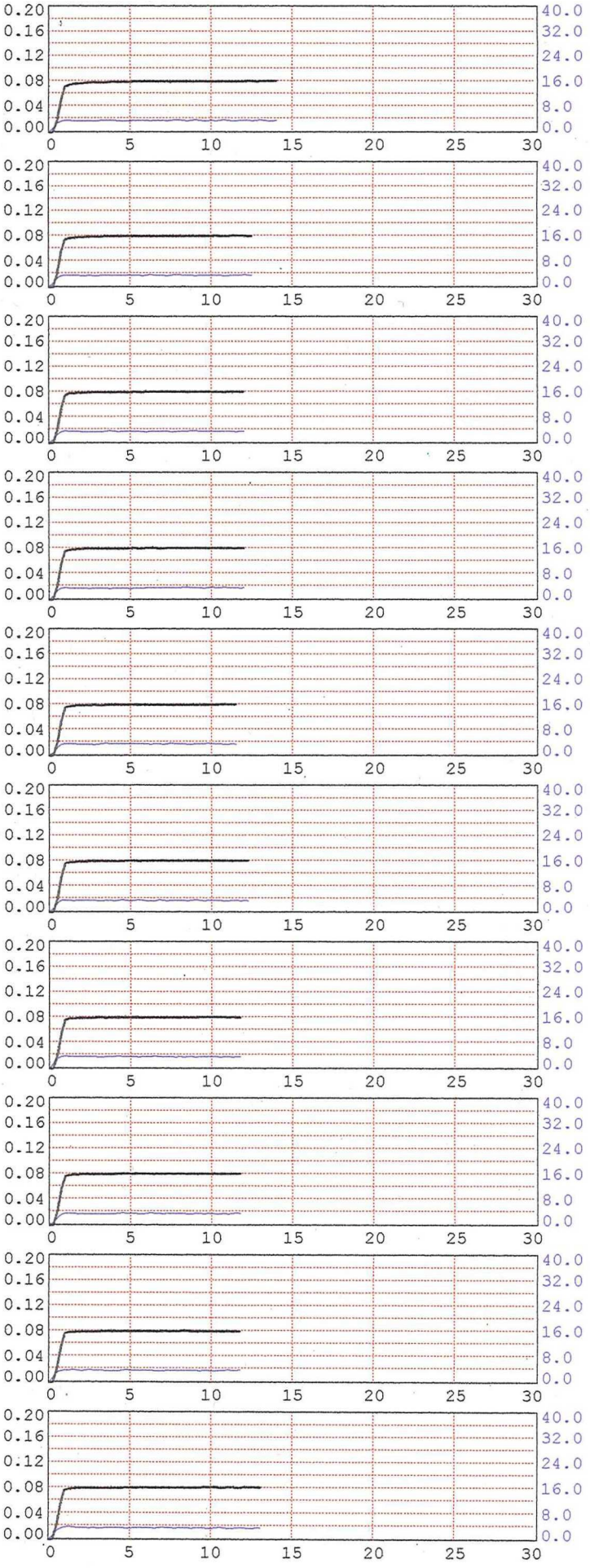
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-41-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	08:29
CALIBRATION CHECK	PASSED	08:29
SIMULATOR VAPOR 34.1°C	0.081	08:29
SIMULATOR VAPOR 34.2°C	0.081	08:30
SIMULATOR VAPOR 34.2°C	0.081	08:31
SIMULATOR VAPOR 34.2°C	0.081	08:32
SIMULATOR VAPOR 34.2°C	0.081	08:33
SIMULATOR VAPOR 34.2°C	0.081	08:34
SIMULATOR VAPOR 34.2°C	0.081	08:35
SIMULATOR VAPOR 34.2°C	0.081	08:36
SIMULATOR VAPOR 34.2°C	0.081	08:37
SIMULATOR VAPOR 34.2°C	0.081	08:39
BLANK TEST	0.000	08:39

Average = 0.081
Std Dev = 0.000

L4 01/06/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 09:24:23

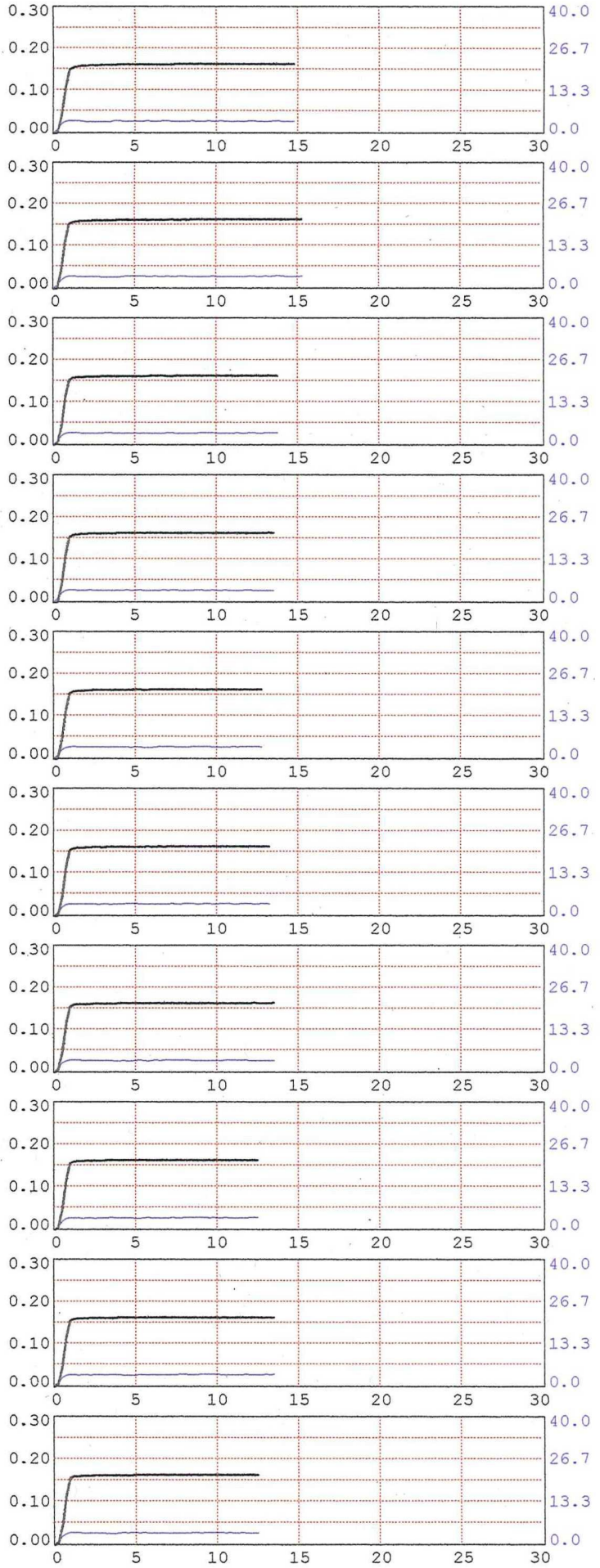
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-42-160
SOLUTION CONCENTRATION: 0.165

BLANK TEST	0.000	09:25
CALIBRATION CHECK	PASSED	09:25
SIMULATOR VAPOR 34.2°C	0.163	09:25
SIMULATOR VAPOR 34.2°C	0.163	09:26
SIMULATOR VAPOR 34.2°C	0.163	09:27
SIMULATOR VAPOR 34.2°C	0.163	09:29
SIMULATOR VAPOR 34.2°C	0.163	09:30
SIMULATOR VAPOR 34.2°C	0.163	09:31
SIMULATOR VAPOR 34.2°C	0.164	09:32
SIMULATOR VAPOR 34.2°C	0.163	09:33
SIMULATOR VAPOR 34.2°C	0.163	09:34
SIMULATOR VAPOR 34.2°C	0.163	09:35
BLANK TEST	0.000	09:36

Average = 0.163
Std Dev = 0.000

L4 01/06/12 [illegible]



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 09:39:18

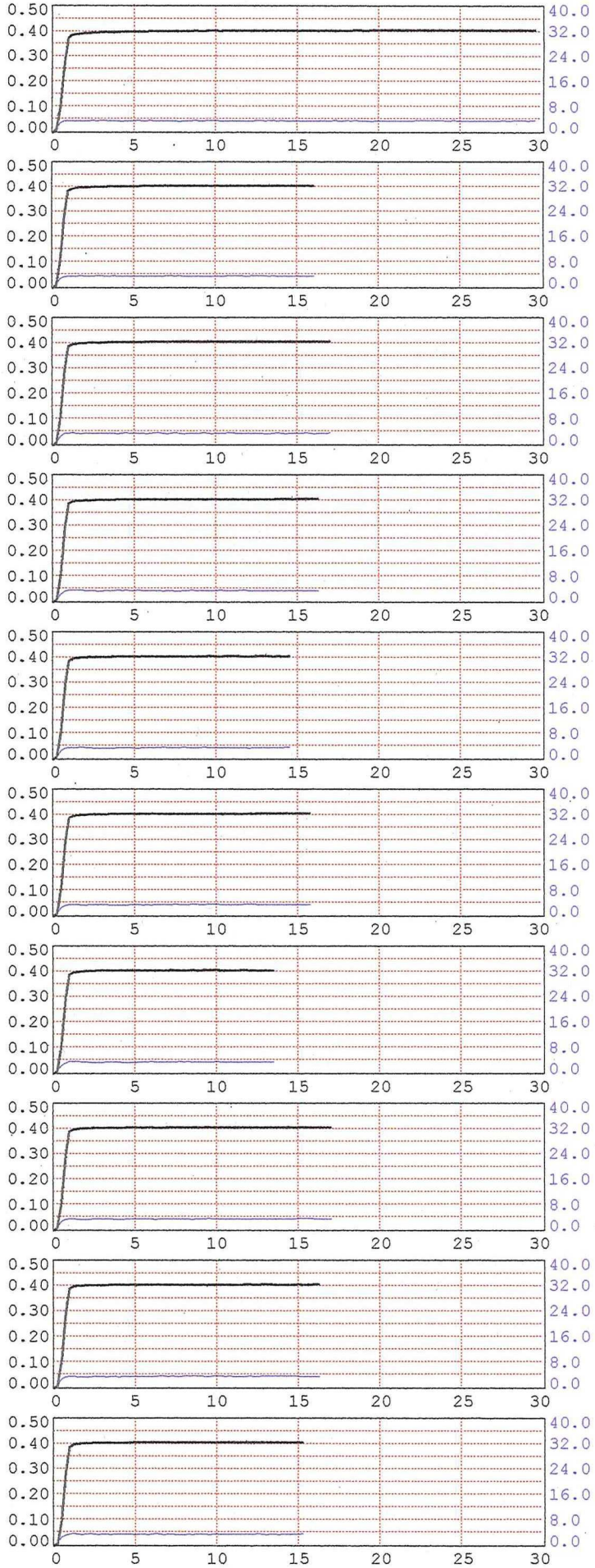
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-47-400
SOLUTION CONCENTRATION: 0.402

BLANK TEST	0.000	09:40
CALIBRATION CHECK	PASSED	09:40
SIMULATOR VAPOR 34.1°C	0.404	09:40
SIMULATOR VAPOR 34.2°C	0.402	09:42
SIMULATOR VAPOR 34.1°C	0.404	09:43
SIMULATOR VAPOR 34.2°C	0.403	09:44
SIMULATOR VAPOR 34.1°C	0.403	09:45
SIMULATOR VAPOR 34.2°C	0.403	09:46
SIMULATOR VAPOR 34.2°C	0.403	09:47
SIMULATOR VAPOR 34.1°C	0.404	09:48
SIMULATOR VAPOR 34.2°C	0.403	09:49
SIMULATOR VAPOR 34.2°C	0.404	09:51
BLANK TEST	0.000	09:51

Average = 0.403
Std Dev = 0.000

L4 01/06/12



DIAGNOSTIC RESULT

DataMaster DMT: 123206
Location:
Calibration Date: 01/03/2012
Certification Date: 01/04/2012
Installation Date:
Test Date: 01/06/2012
Test Time: 10:53:59

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 46.7°C
Digital Sim = 34.1°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.77 V
Bias Voltage = 80 V
Chopper Freq = 535 Hz

PUMP INFO
Flow Rate = 4.498 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0978	0.1004
MIN(V)	0.0963	0.0984

FILTER INFO
Filter 1 0.099 Zero = true
Filter 2 0.464 Zero = true
Filter 3 1.489 Zero = true

CALIBRATION CHECK
Xq = 0.081 0.00%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 10:55:47

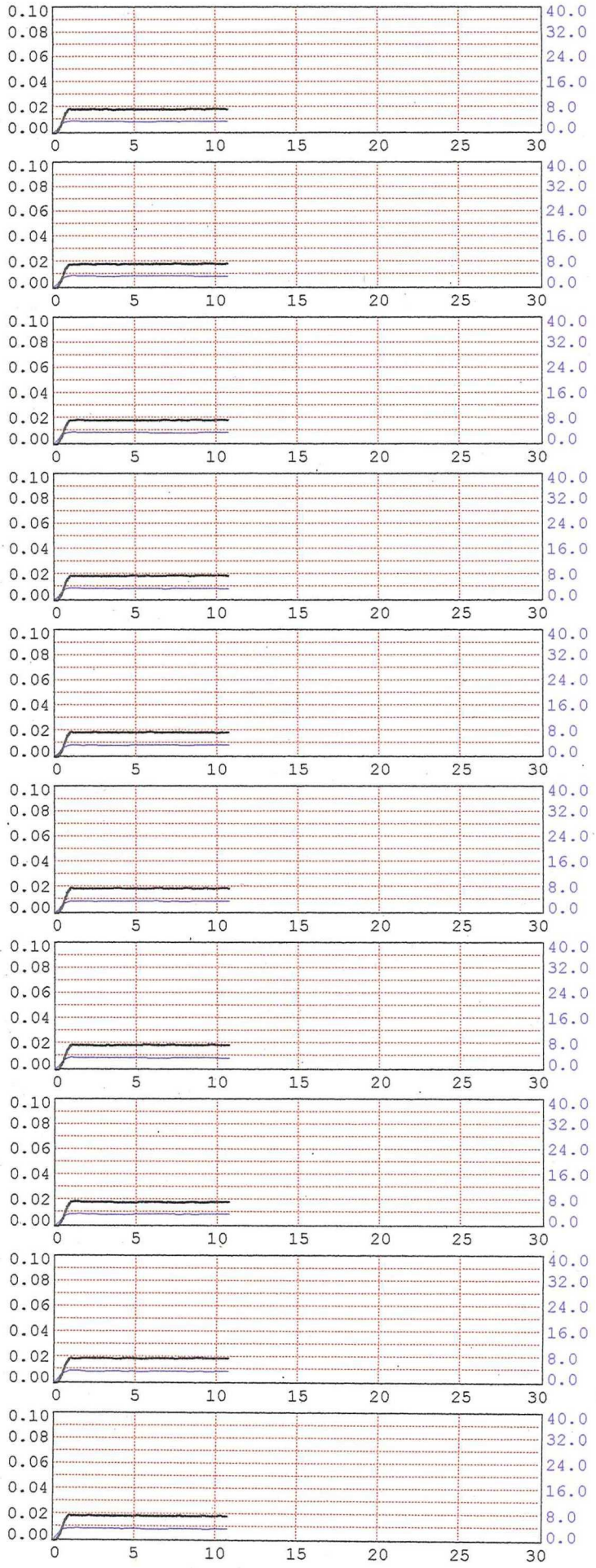
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-46-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	10:56
CALIBRATION CHECK	PASSED	10:56
SIMULATOR VAPOR 34.2°C	0.019	10:57
SIMULATOR VAPOR 34.1°C	0.019	10:58
SIMULATOR VAPOR 34.2°C	0.019	10:59
SIMULATOR VAPOR 34.1°C	0.020	11:00
SIMULATOR VAPOR 34.2°C	0.019	11:01
SIMULATOR VAPOR 34.1°C	0.020	11:02
SIMULATOR VAPOR 34.1°C	0.020	11:03
SIMULATOR VAPOR 34.2°C	0.019	11:04
SIMULATOR VAPOR 34.2°C	0.020	11:05
SIMULATOR VAPOR 34.2°C	0.020	11:06
BLANK TEST	0.000	11:07

Average = 0.019
Std Dev = 0.000

LS 01/06/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 11:10:26

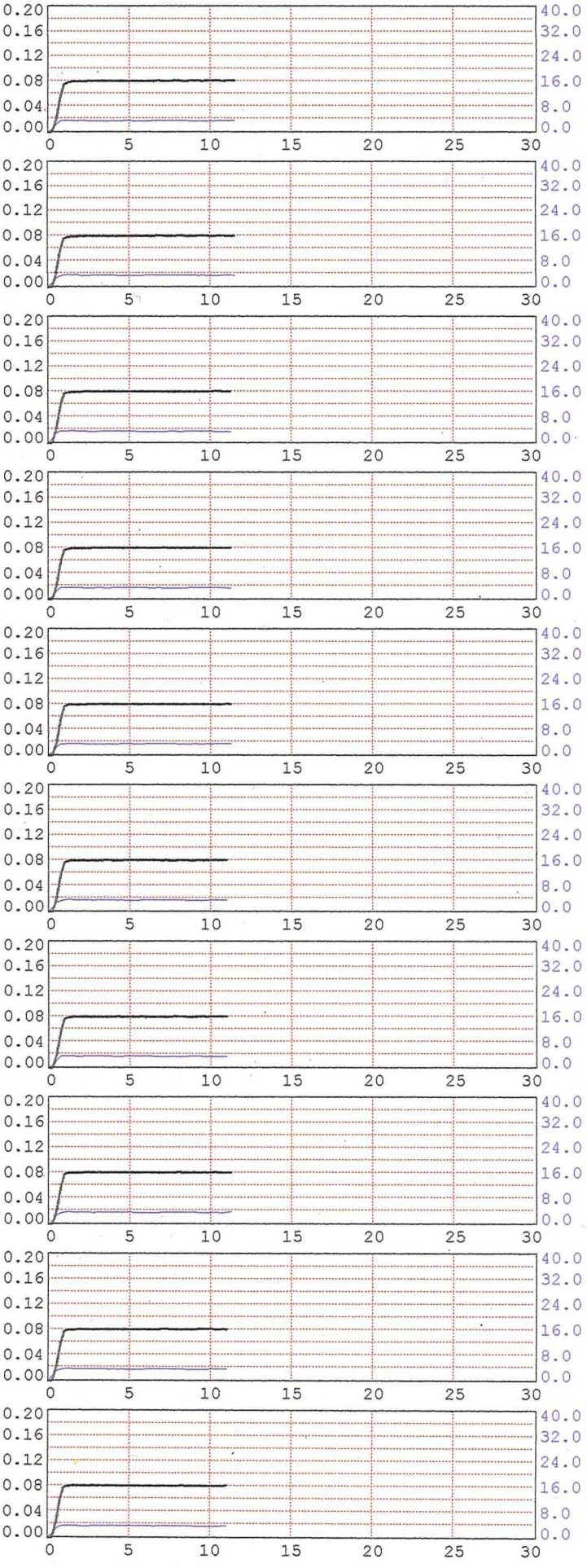
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-41-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	11:11
CALIBRATION CHECK	PASSED	11:11
SIMULATOR VAPOR 34.1°C	0.081	11:11
SIMULATOR VAPOR 34.1°C	0.081	11:12
SIMULATOR VAPOR 34.1°C	0.081	11:13
SIMULATOR VAPOR 34.1°C	0.081	11:14
SIMULATOR VAPOR 34.1°C	0.081	11:15
SIMULATOR VAPOR 34.1°C	0.081	11:16
SIMULATOR VAPOR 34.1°C	0.081	11:17
SIMULATOR VAPOR 34.1°C	0.081	11:19
SIMULATOR VAPOR 34.1°C	0.081	11:20
SIMULATOR VAPOR 34.1°C	0.081	11:21
BLANK TEST	0.000	11:21

Average = 0.081
Std Dev = 0.000

LS 01/06/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 11:24:43

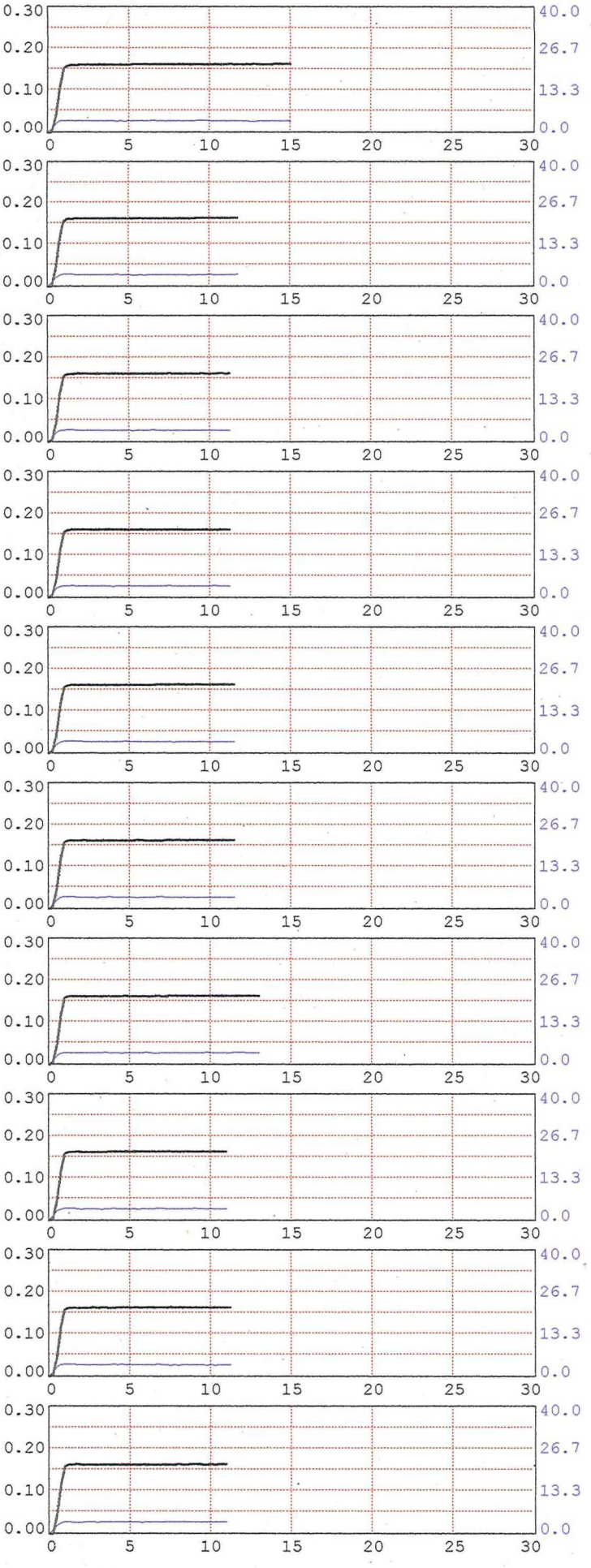
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-42-160
SOLUTION CONCENTRATION: 0.165

BLANK TEST	0.000	11:25
CALIBRATION CHECK	PASSED	11:25
SIMULATOR VAPOR 34.1°C	0.162	11:26
SIMULATOR VAPOR 34.1°C	0.162	11:27
SIMULATOR VAPOR 34.2°C	0.162	11:28
SIMULATOR VAPOR 34.1°C	0.162	11:29
SIMULATOR VAPOR 34.1°C	0.163	11:30
SIMULATOR VAPOR 34.1°C	0.163	11:31
SIMULATOR VAPOR 34.1°C	0.163	11:32
SIMULATOR VAPOR 34.1°C	0.163	11:33
SIMULATOR VAPOR 34.1°C	0.163	11:34
SIMULATOR VAPOR 34.1°C	0.162	11:35
BLANK TEST	0.000	11:36

Average = 0.162
Std Dev = 0.000

LS 01/06/12 SL



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 11:40:10

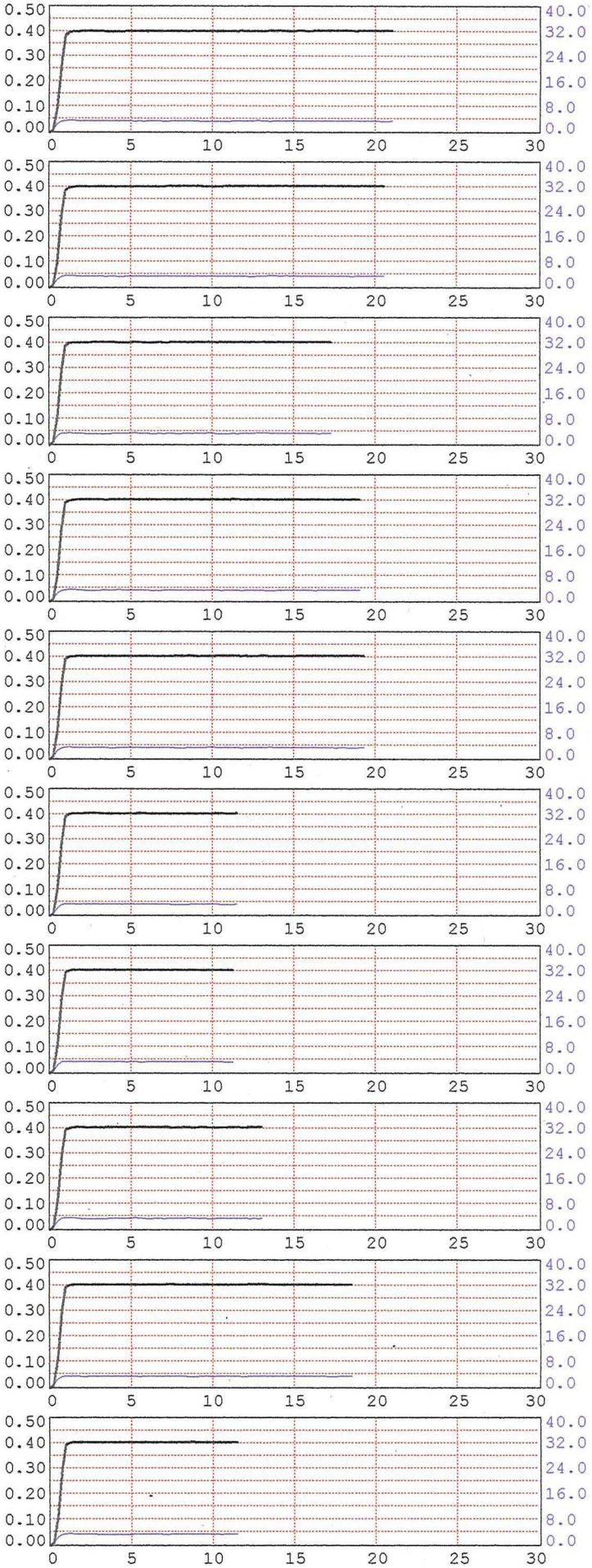
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-47-400
SOLUTION CONCENTRATION: 0.402

BLANK TEST	0.000	11:41
CALIBRATION CHECK	PASSED	11:41
SIMULATOR VAPOR 34.1°C	0.401	11:41
SIMULATOR VAPOR 34.2°C	0.402	11:42
SIMULATOR VAPOR 34.1°C	0.402	11:44
SIMULATOR VAPOR 34.1°C	0.402	11:45
SIMULATOR VAPOR 34.1°C	0.404	11:46
SIMULATOR VAPOR 34.2°C	0.403	11:47
SIMULATOR VAPOR 34.1°C	0.402	11:48
SIMULATOR VAPOR 34.2°C	0.403	11:49
SIMULATOR VAPOR 34.1°C	0.402	11:50
SIMULATOR VAPOR 34.1°C	0.402	11:51
BLANK TEST	0.000	11:52

Average = 0.402
Std Dev = 0.000

LS 01/06/12



SECTION 4

INTERFERENCE TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 123206
Location:
Calibration Date: 01/03/2012
Certification Date:
Installation Date:
Test Date: 01/03/2012
Test Time: 14:43:33

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 42.7°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.77 V
Bias Voltage = 80 V
Chopper Freq = 530 Hz

PUMP INFO
Flow Rate = 4.590 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0333	0.0362
MIN(V)	0.0311	0.0348

FILTER INFO

Filter 1	0.036	Zero = true
Filter 2	0.403	Zero = true
Filter 3	1.424	Zero = true

CALIBRATION CHECK
Xq = 0.081 0.32%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

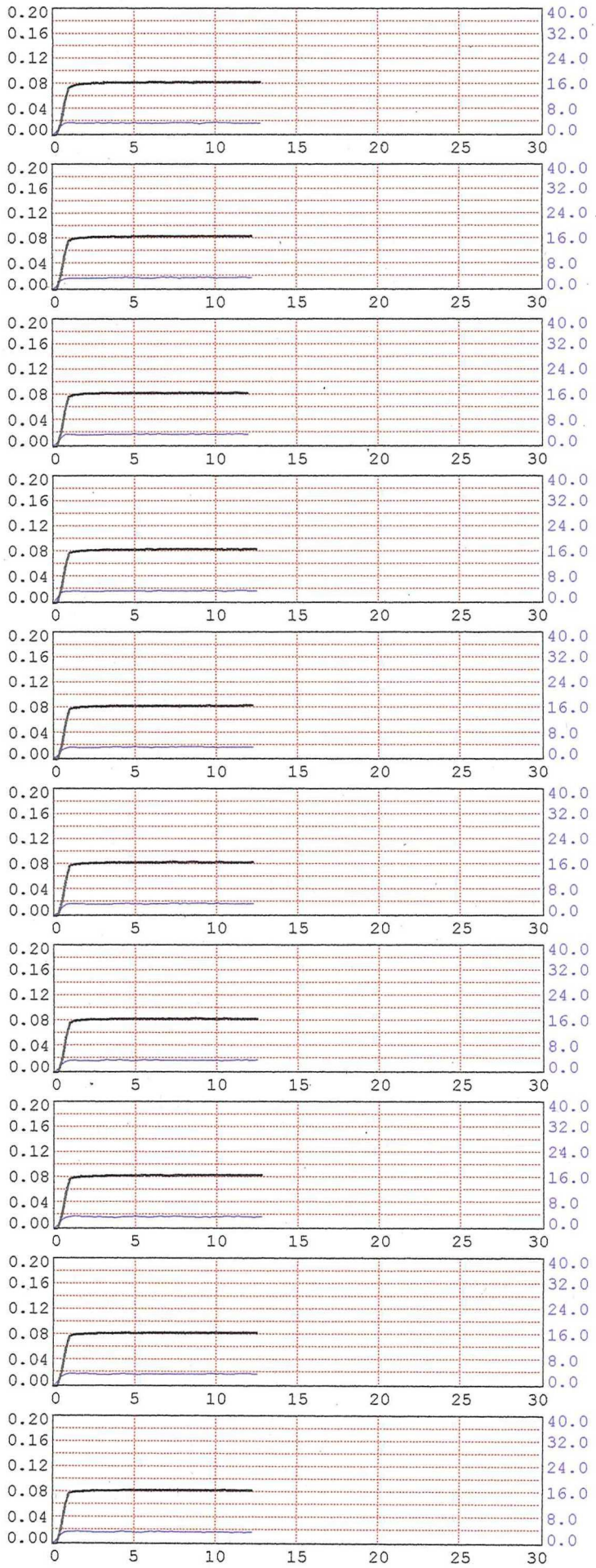
Date: 01/03/2012
Time: 14:49:24

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-41-080A1
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	14:50
CALIBRATION CHECK	PASSED	14:50
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:50
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:51
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:52
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:53
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:54
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:55
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:57
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:58
SIMULATOR VAPOR 34.1°C	INTERFERENCE	14:59
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:00
BLANK TEST	0.000	15:01

100%
1-3-12
KLK
0.01 Acetone
0.082 EtOH



DIAGNOSTIC RESULT

DataMaster DMT: 123206
Location:
Calibration Date: 01/03/2012
Certification Date: 01/04/2012
Installation Date:
Test Date: 01/04/2012
Test Time: 11:58:48

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 42.9°C
Digital Sim = 34.4°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.77 V
Bias Voltage = 80 V
Chopper Freq = 533 Hz

PUMP INFO
Flow Rate = 4.581 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0169	0.0213
MIN(V)	0.0148	0.0199

FILTER INFO
Filter 1 0.020 Zero = true
Filter 2 0.391 Zero = true
Filter 3 1.407 Zero = true

CALIBRATION CHECK
Xq = 0.081 0.11%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/04/2012
Time: 12:00:43

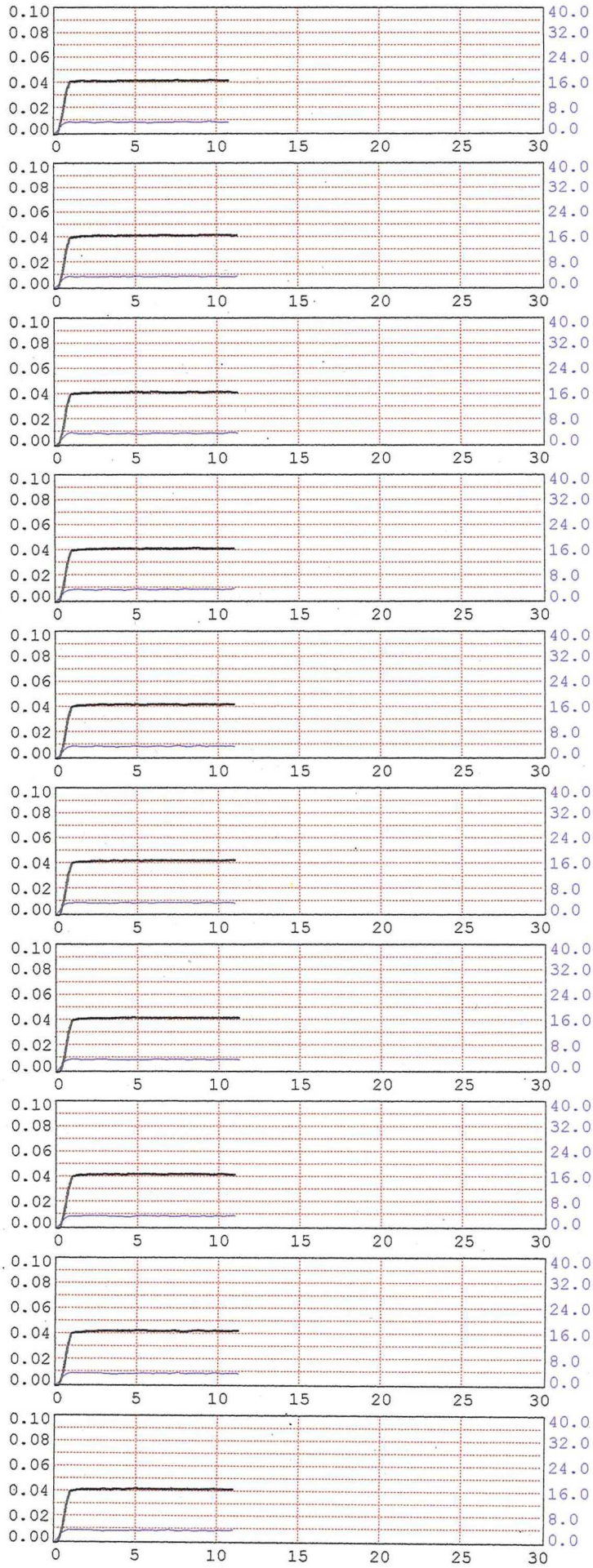
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-26-040A1
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	12:01
CALIBRATION CHECK	PASSED	12:01
SIMULATOR VAPOR 34.2°C	INTERFERENCE	12:02
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:03
SIMULATOR VAPOR 34.2°C	INTERFERENCE	12:04
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:05
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:06
SIMULATOR VAPOR 34.2°C	INTERFERENCE	12:07
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:08
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:09
SIMULATOR VAPOR 34.2°C	INTERFERENCE	12:10
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:11
BLANK TEST	0.000	12:12

100% 01/04/12 SRM

0.01 Acetone / 0.04 EtOH



DIAGNOSTIC RESULT

DataMaster DMT: 123206
Location:
Calibration Date: 01/03/2012
Certification Date: 01/04/2012
Installation Date:
Test Date: 01/05/2012
Test Time: 07:05:43

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 45.0°C
Digital Sim = 34.2°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.77 V
Bias Voltage = 80 V
Chopper Freq = 530 Hz

PUMP INFO
Flow Rate = 4.525 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0226	0.0262
MIN(V)	0.0205	0.0248

FILTER INFO
Filter 1 0.025 Zero = true
Filter 2 0.394 Zero = true
Filter 3 1.411 Zero = true

CALIBRATION CHECK
Xq = 0.081 0.32%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

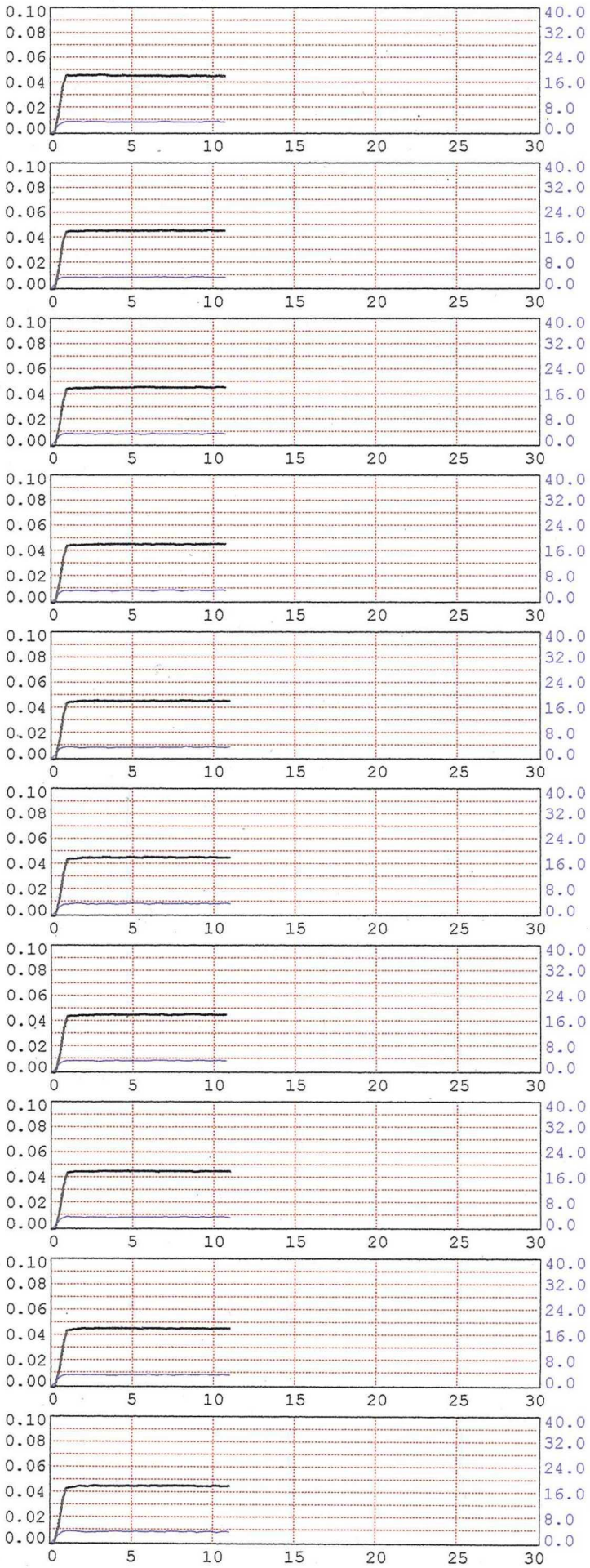
Date: 01/05/2012
Time: 07:50:25

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-26-040A2
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	07:51
CALIBRATION CHECK	PASSED	07:51
SIMULATOR VAPOR 34.4°C	INTERFERENCE	07:51
SIMULATOR VAPOR 34.2°C	INTERFERENCE	07:52
SIMULATOR VAPOR 34.2°C	INTERFERENCE	07:53
SIMULATOR VAPOR 34.2°C	INTERFERENCE	07:54
SIMULATOR VAPOR 34.2°C	INTERFERENCE	07:55
SIMULATOR VAPOR 34.1°C	INTERFERENCE	07:56
SIMULATOR VAPOR 34.2°C	INTERFERENCE	07:57
SIMULATOR VAPOR 34.1°C	INTERFERENCE	07:58
SIMULATOR VAPOR 34.2°C	INTERFERENCE	07:59
SIMULATOR VAPOR 34.2°C	INTERFERENCE	08:00
BLANK TEST	0.000	08:01

100%
1-5-12
0.02 Acetone
0.040 EtOH
KLK



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 10:13:24

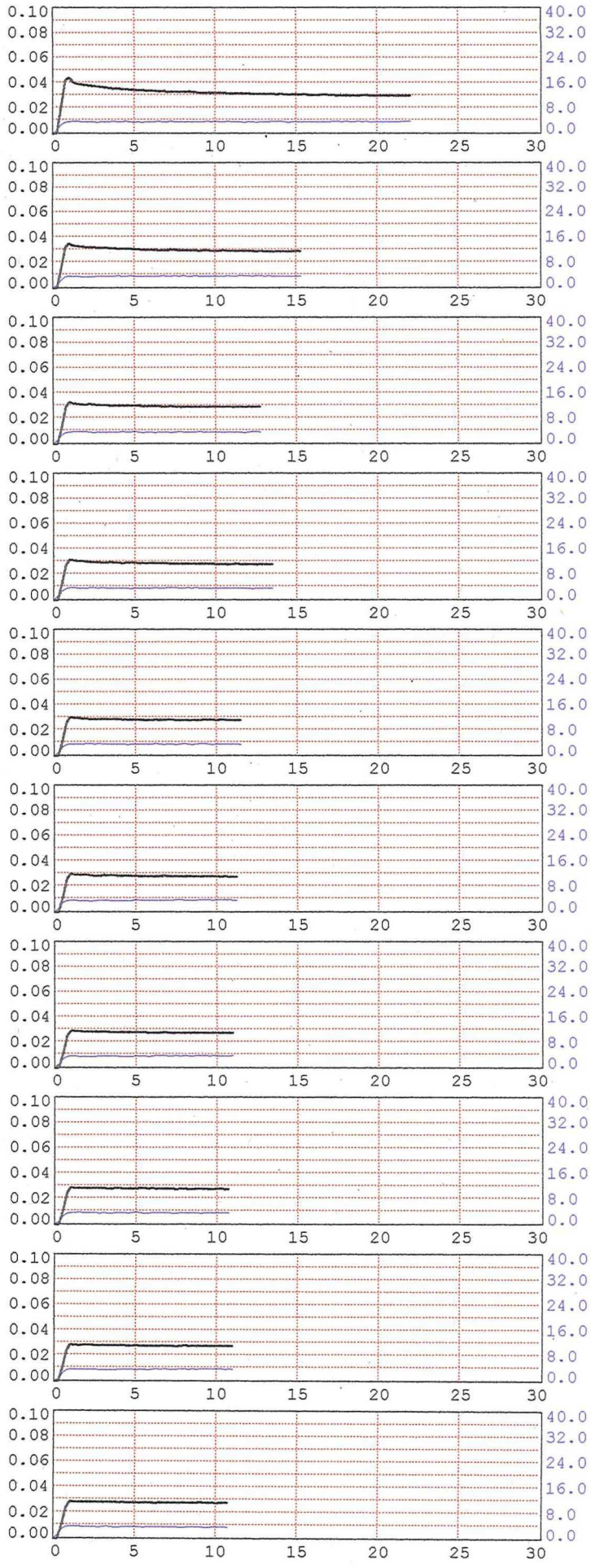
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-44-040I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	10:14
CALIBRATION CHECK	PASSED	10:14
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:14
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:15
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:17
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:18
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:19
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:20
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:21
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:22
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:23
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:24
BLANK TEST	0.000	10:25

100% 01/06/12 SRM

0.04 IPA/H_2O



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 10:32:08

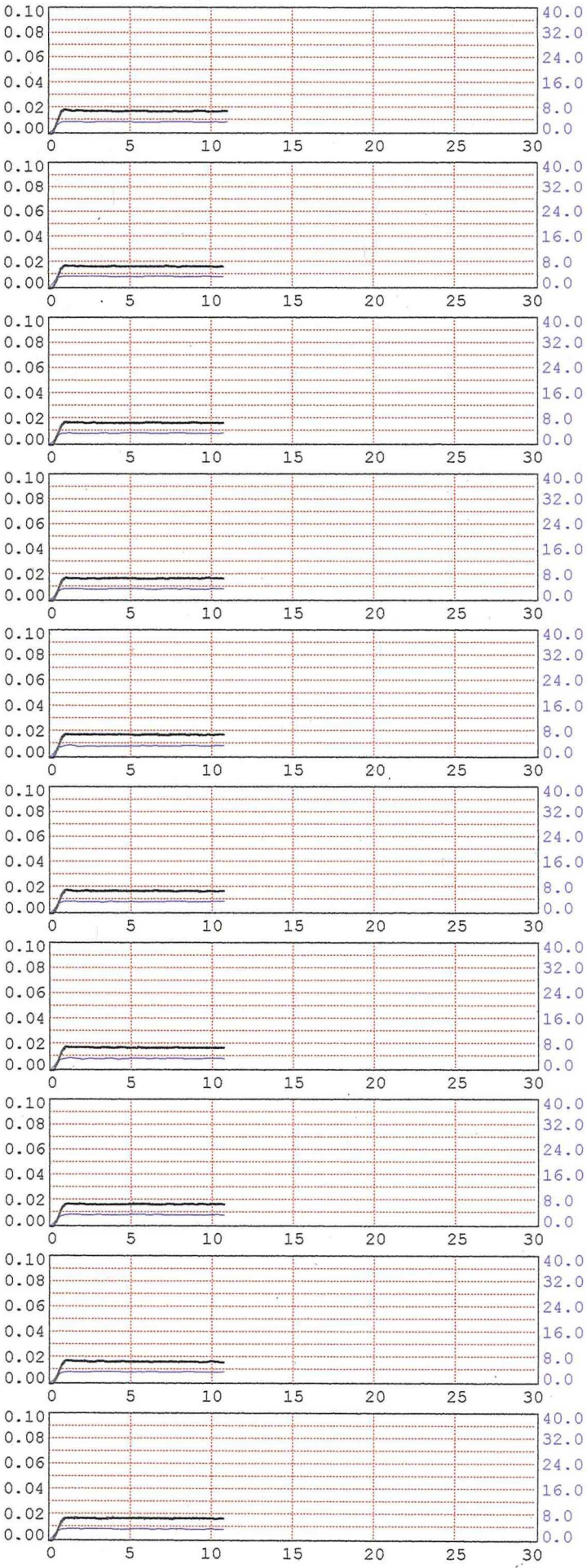
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-43-040M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	10:33
CALIBRATION CHECK	PASSED	10:33
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:33
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:34
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:35
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:36
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:37
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:38
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:39
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:40
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:41
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:42
BLANK TEST	0.000	10:43

100%
1-6-12

0.04 $NaOH/H_2O$



DIAGNOSTIC RESULT

DataMaster DMT: i23206
Location:
Calibration Date: 01/03/2012
Certification Date: 01/04/2012
Installation Date:
Test Date: 01/06/2012
Test Time: 15:03:11

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 47.3°C
Digital Sim = 34.1°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.77 V
Bias Voltage = 80 V
Chopper Freq = 532 Hz

PUMP INFO
Flow Rate = 4.452 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0585	0.0618
MIN(V)	0.0565	0.0598

FILTER INFO
Filter 1 0.061 Zero = true
Filter 2 0.429 Zero = true
Filter 3 1.449 Zero = true

CALIBRATION CHECK
Xq = 0.081 0.54%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

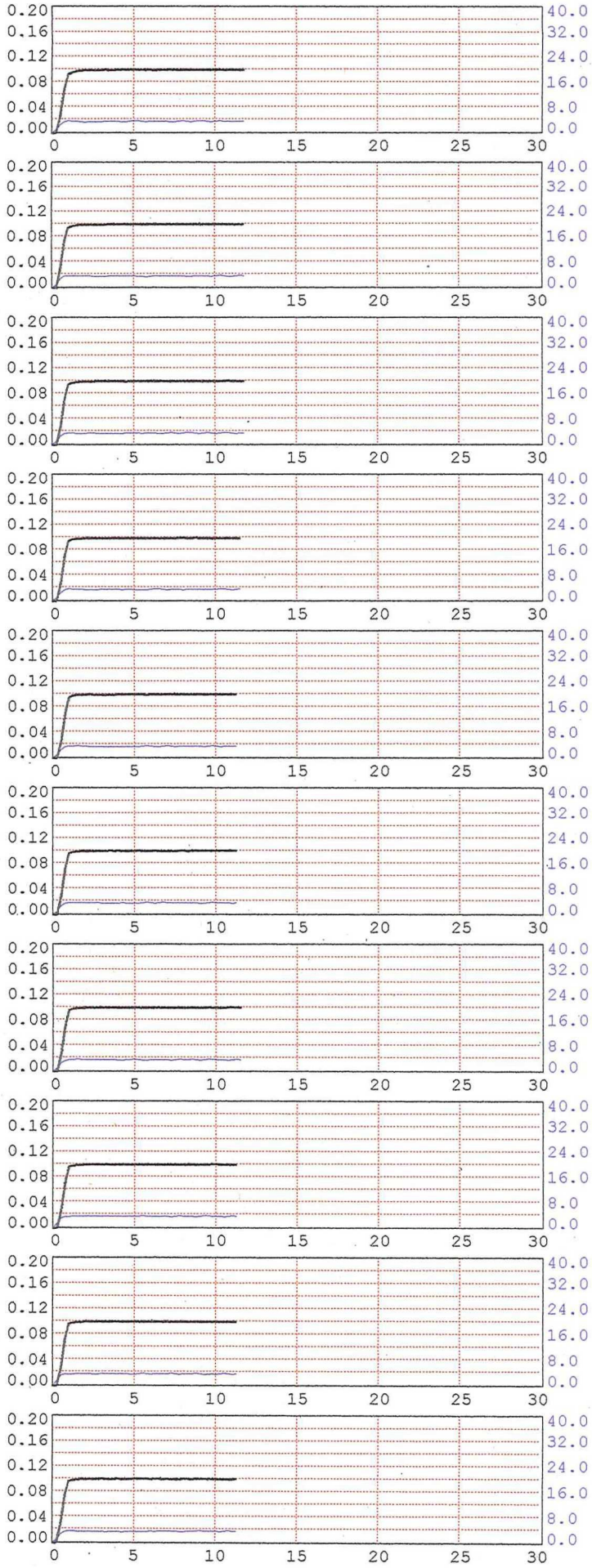
Date: 01/06/2012
Time: 15:06:40

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-50-080M
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	15:07
CALIBRATION CHECK	PASSED	15:07
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:07
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:09
SIMULATOR VAPOR 34.2°C	INTERFERENCE	15:10
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:11
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:12
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:13
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:14
SIMULATOR VAPOR 34.2°C	INTERFERENCE	15:15
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:16
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:17
BLANK TEST	0.000	15:18

100%
0.04 MeOH
0.080 EtOH
1-6-12
KLK



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 15:20:47

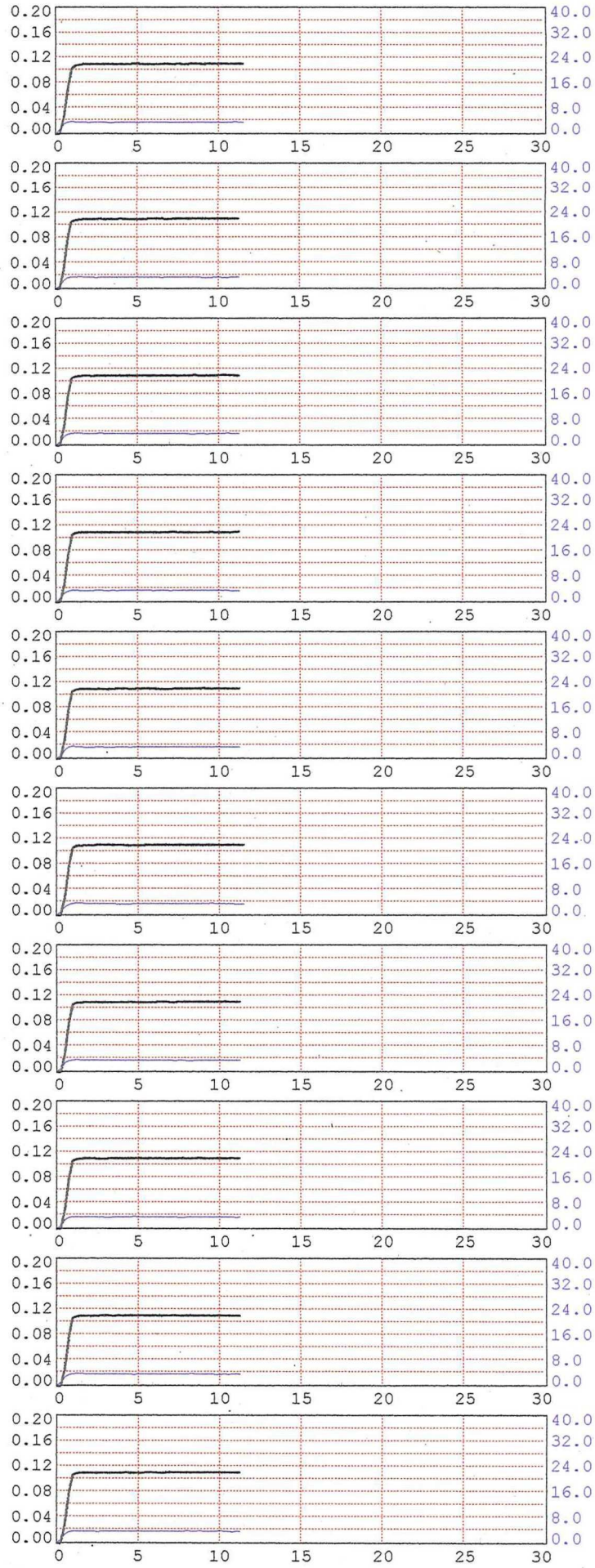
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-50-080I
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	15:21
CALIBRATION CHECK	PASSED	15:21
SIMULATOR VAPOR 34.2°C	INTERFERENCE	15:22
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:23
SIMULATOR VAPOR 34.2°C	INTERFERENCE	15:24
SIMULATOR VAPOR 34.2°C	INTERFERENCE	15:25
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:26
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:27
SIMULATOR VAPOR 34.2°C	INTERFERENCE	15:28
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:29
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:30
SIMULATOR VAPOR 34.1°C	INTERFERENCE	15:31
BLANK TEST	0.000	15:32

100% 01/06/12 [illegible] [illegible] 1-6-12

0.04 IPA/0.08 EtOH



SECTION 5

FINAL CALIBRATION CHECK TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 123206
Location:
Calibration Date: 01/03/2012
Certification Date: 01/04/2012
Installation Date:
Test Date: 01/06/2012
Test Time: 15:49:50

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 47.0°C
Digital Sim = 34.1°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.78 V
Bias Voltage = 80 V
Chopper Freq = 537 Hz

PUMP INFO
Flow Rate = 4.458 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1138	0.1157
MIN(V)	0.1120	0.1142

FILTER INFO

Filter 1	0.114	Zero = true
Filter 2	0.479	Zero = true
Filter 3	1.505	Zero = true

CALIBRATION CHECK
Xq = 0.081 0.43%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 15:51:37

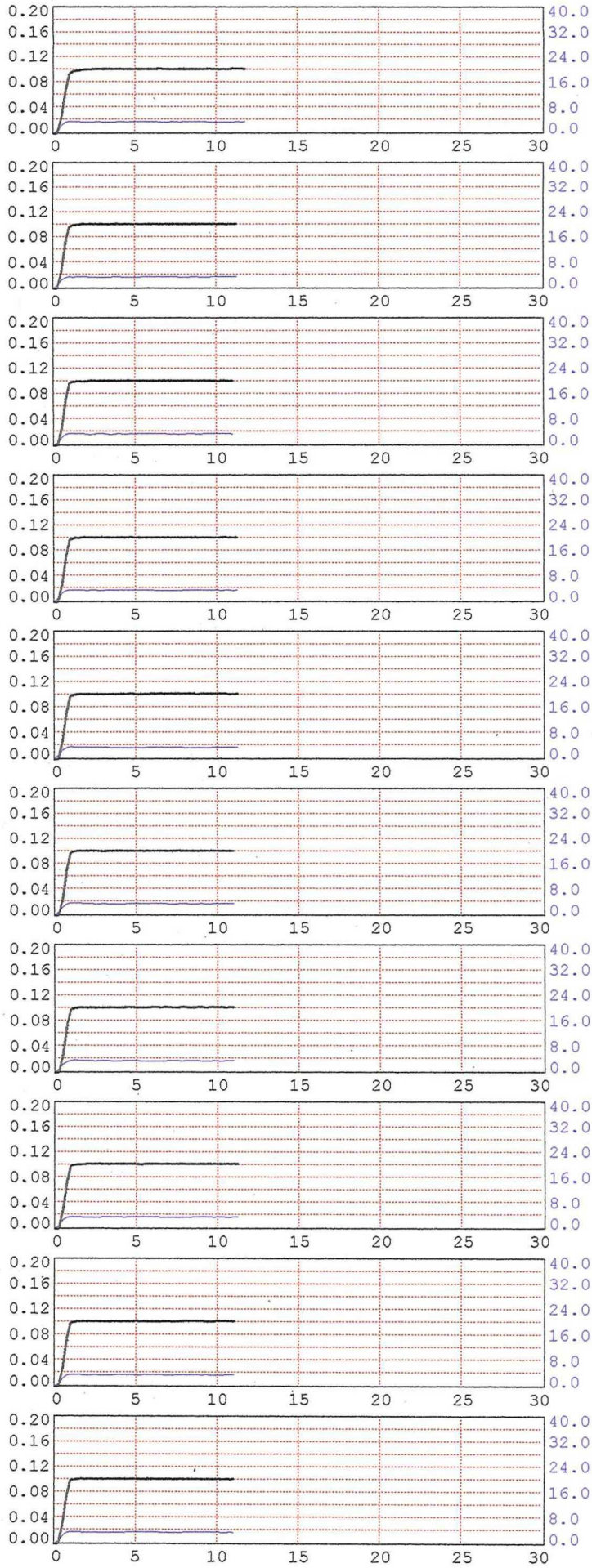
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: GUTH 11050
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	15:52
CALIBRATION CHECK	PASSED	15:52
SIMULATOR VAPOR 34.2°C	0.102	15:52
SIMULATOR VAPOR 34.1°C	0.101	15:53
SIMULATOR VAPOR 34.1°C	0.101	15:55
SIMULATOR VAPOR 34.1°C	0.102	15:56
SIMULATOR VAPOR 34.2°C	0.102	15:57
SIMULATOR VAPOR 34.1°C	0.101	15:58
SIMULATOR VAPOR 34.1°C	0.102	15:59
SIMULATOR VAPOR 34.1°C	0.102	16:00
SIMULATOR VAPOR 34.2°C	0.102	16:01
SIMULATOR VAPOR 34.1°C	0.101	16:02
BLANK TEST	0.000	16:03

Average = 0.101
Std Dev = 0.000

2nd Source Cal Check 01/06/12 SM
1-6-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 123206

Date: 01/06/2012
Time: 16:05:59

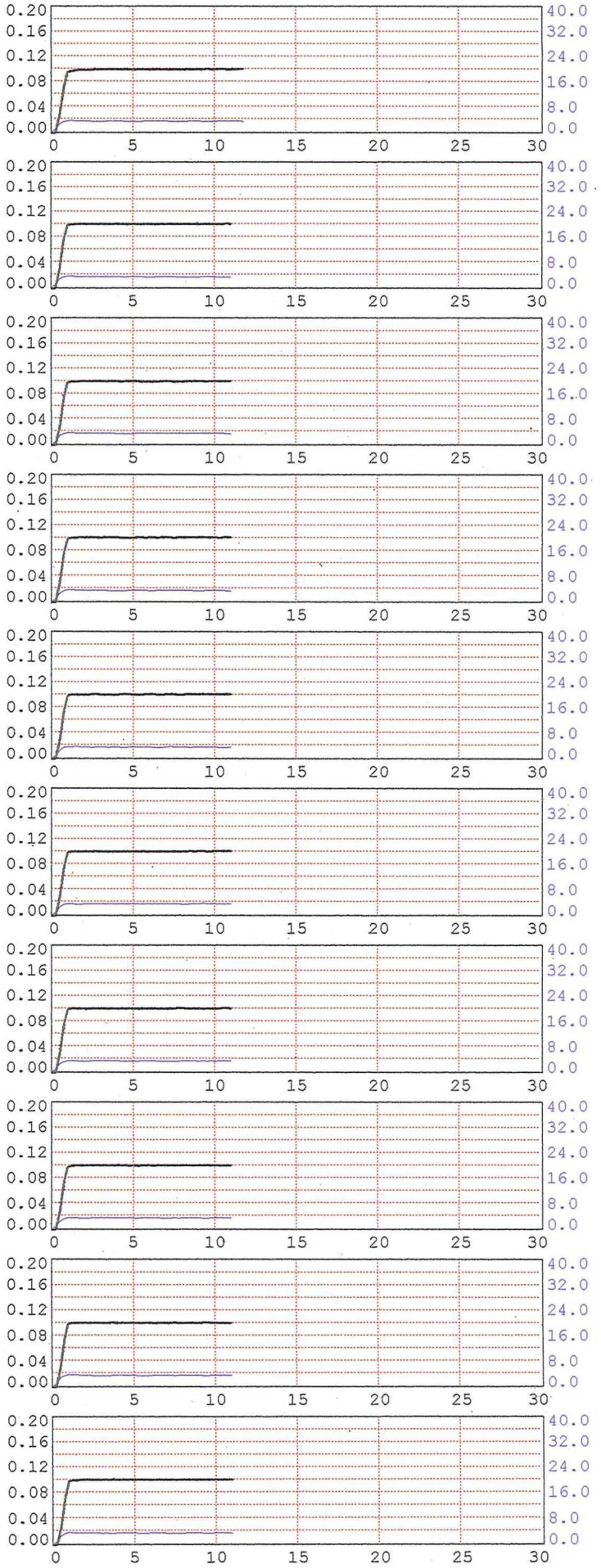
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-39-100
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	16:06
CALIBRATION CHECK	PASSED	16:06
SIMULATOR VAPOR 34.1°C	0.100	16:07
SIMULATOR VAPOR 34.1°C	0.101	16:08
SIMULATOR VAPOR 34.1°C	0.100	16:09
SIMULATOR VAPOR 34.2°C	0.101	16:10
SIMULATOR VAPOR 34.2°C	0.101	16:11
SIMULATOR VAPOR 34.2°C	0.101	16:12
SIMULATOR VAPOR 34.1°C	0.101	16:13
SIMULATOR VAPOR 34.1°C	0.100	16:14
SIMULATOR VAPOR 34.1°C	0.101	16:15
SIMULATOR VAPOR 34.1°C	0.100	16:16
BLANK TEST	0.000	16:17

Average = 0.100
Std Dev = 0.000

In house
Cal check
RZK
1-6-12



SECTION 6

ERROR REPORTS

NONE FOR THIS UNIT