DATAMASTER DMT 104809

VERMONT DEPARTMENT OF HEALTH LABORATORY

PERFORMANCE TESTING RESULTS

January 2010

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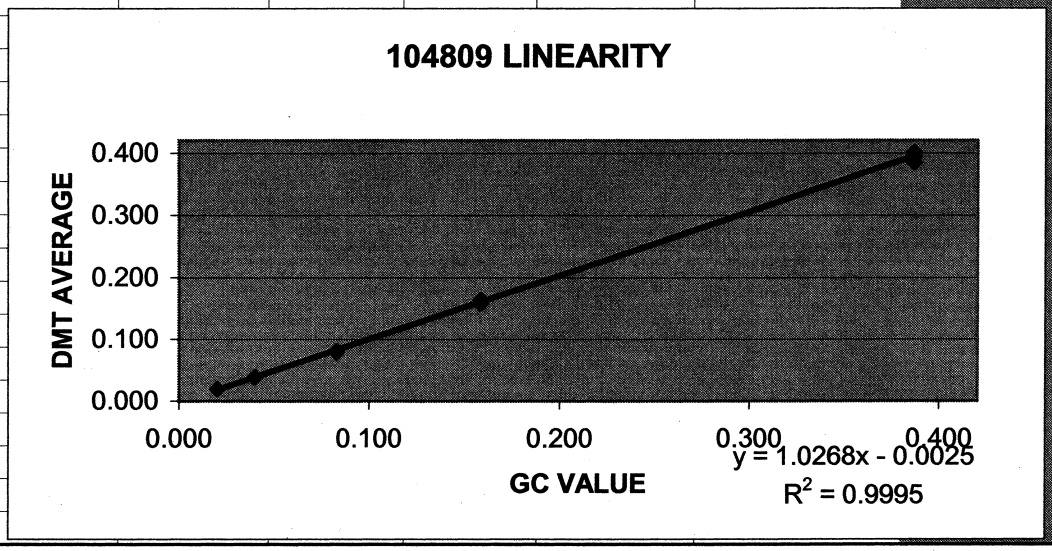
Section 1: Results

Operator	Date	Lot #	GC Value	DMT Result	Std Dev	% Recovery	
ALB	11/2/2009	09-38-160	0.159	0.163	0.0006	102.5	
		09-43-080	0.083	0.081	0.0005	97.6	
		10-13-020	0.020	0.019	0.0005	95.0	
		10-14-400	0.387	0.399	0.0005	103.1	Outside 5%
ALB	11/20/2009	10-14-400	0.387	0.401	0.0006	103.6	
		09-38-160	0.159	0.164	0.0007	103.1	Outside 10%
		10-13-020	0.020	0.019	0.0004	95.0	
		09-43-080	0.083	0.081	0.0006	97.6	
ALB	11/23/2009	09-43-080	0.083	0.081	0.0004	97.6	
		10-13-020	0.020	0.019	0.0004	95.0	
		09-38-160	0.159	0.163	0.0005	102.5	
		10-14-400	0.387	0.394	0.0010	101.8	
ALB	11/23/2009	10-14-400	0.387	0.395	0.0004	102.1	
		09-38-160	0.159	0.162	0.0007	101.9	
		10-13-020	0.020	0.019	0.0004	95.0	
		09-43-080	0.083	0.081	0.0006	97.6	
ALB	11/30/2009	09-38-160	0.159	0.158	0.0005	99.4	
		10-13-020	0.020	0.019	0.0004	95.0	
		09-43-080	0.083	0.079	0.0004	95.2	
		10-14-400	0.387	0.385	0.0004	99.5	
ALB	10/30/2009	09-27-040	0.040	0.039	0.0005	97.5	LOW LEVEL
				Average	0.0005	98.9	
				Std Dev	0.0002	3.38	
				Range	0.0004 - 0.0010	95.0 - 103.6	



104809 TESTING RESULTS

Operator	Date	Concentration	Lot Number	DMT Result	Apparent EtOH	N = 10
ALB	10/21/09	0.01 Acetone in .08 EtOH	10-05-08A1	INTERFERENCE	0.08	
ALB	10/21/09	0.04 MeOH in water	10-07-04M	INTERFERENCE	0.03	
ALB	10/21/09	0.04 IPA in water	10-16-04I	INTERFERENCE	0.04	
ALB	10/30/09	0.02 Acetone in water	09-23-02A	INTERFERENCE	0.01	
ALB	10/30/09	0.04 MeOH in .08 EtOH	10-10-08M4	INTERFERENCE	0.12	
ALB	10/30/09	0.01 Acetone in water	10-08-01A	INTERFERENCE	< .01	
ALB	10/30/09	0.02 Acetone in .08 EtOH	09-28-08A2	INTERFERENCE	0.09	
ALB	10/30/09	0.04 IPA in .08 EtOH	09-43-08I4	INTERFERENCE	0.13	
ALB	10/30/09	0.01 Acetone in .04 EtOH	09-13-04A1	INTERFERENCE	0.05	
ALB	10/30/09	0.02 Acetone in .04 EtOH	09-13-04A2	INTERFERENCE	0.06	

Section 2: NPAS Tests

National Patent Analytical Systems, Inc.

Certificate of Calibration

104809

Instrument Serial Number

09220

Standard Reference Number

The above instrument has been calibrated and is hereby certified for use in determining alcohol breath concentration when used in accordance with the operating guidelines by a properly trained operator.

9-22-09

Date

Technician

OPTIONS PRINT OUT

DataMaster DMT: 104809
Location: ADDISON COUNTY SO
Calibration Date: 09/22/2009
Certification Date: 09/22/2009
Installation Date: 09/22/2009

VERMONT
DEPARTMENT OF HEALTH

```
Printer: yes
Number of Copies: 3
Number of Supervisor Tests: 10
Tolerance Check: yes
Data Collection: yes
Units: g/210L
Simulator Check: yes
Uses Wet Bath Simulator: yes
Simulator Nominal: 0.100
Digital Simulator: guth
Simulator Before: yes
Simulator Between: yes
Simulator After: no
Number of Subject Tests: 2
AskQuestions: yes
Query Refusal: yes
Alcohol Display: yes
Show Two Digits: no
Volume Display: yes
Number of Calibration Tests: 1
Calibrate with Wet Bath: yes
Calibration Nominal: 0.100
```

CALIBRATION REPORT

DataMaster DMT: 104809
Calibration Date: 09/22/2009
Calibrated by: T T T
Lot: 876654

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.100000
CAL =  1.006622    0.800 <= CAL < 1.200
b1  =  0.000000    0.000 <=  b1 < 0.004
b2  =  0.004202    0.001 <=  b2 < 0.012
b3  =  0.000000    0.000 <=  b3 < 0.004
Xq  =  0.076511    0.050 <=  Xq < 0.200
a21 =  1.218540    1.050 <= a21 < 1.300
a31 =  0.483896    0.300 <= a31 < 0.800
```

Performed by _____ **Date** 09/22/2009

CERTIFICATION REPORT

DataMaster DMT: 104809
Calibration Date: 09/22/2009
Certification Date: 09/22/2009
Certified by: T T T

VERMONT
DEPARTMENT OF HEALTH

Diagnostic Results

VERSIONS
DMT 1.03
PIC 2.05
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 49.15°C
Breath Tube = 44.51°C

SETTINGS
Lamp Voltage = 1.68 V
Cooler Voltage = 1.64 V
Bias Voltage = 81.3 V
Chopper Freq = 539.5 Hz

PUMP INFO
Flow Rate = 4.748 L/M

DETECTOR INFO
PUMP ON OFF
MAX(V) 0.2644 0.2671
MIN(V) 0.2618 0.2656

FILTER INFO
Filter 1 0.266 Zero = true
Filter 2 0.857 Zero = true
Filter 3 0.675 Zero = true

CALIBRATION CHECK
Xq = 0.0765 0.00%

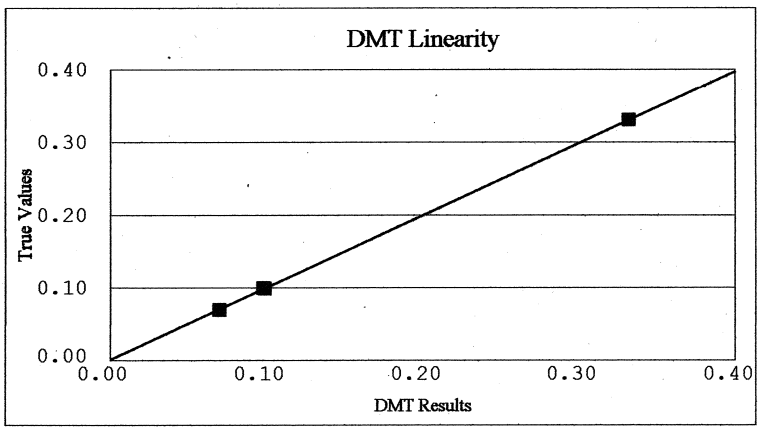
Options

Printer: yes
Number of Copies: 1
Number of Supervisor Tests: 5
Tolerance Check: no
Data Collection: yes
Units: g/210L
Simulator Check: no
Uses Wet Bath Simulator: yes
Simulator Nominal: 0.100
Digital Simulator: none
Simulator Before: yes
Simulator Between: yes
Simulator After: yes
Number of Subject Tests: 2
AskQuestions: yes
Query Refusal: yes
Alcohol Display: yes
Show Two Digits: no
Volume Display: yes
Number of Calibration Tests: 2
Calibrate with Wet Bath: yes
Calibration Nominal: 0.100

Linearity Check Results

True Value	Reported Average	Std Dev
0.070 g/210L	0.070 g/210L	0.001
Lot # 765		
0.100 g/210L	0.098 g/210L	0.001
Lot # 7		
0.099 g/210L	0.099 g/210L	0.001
Lot # I876556		
0.330 g/210L	0.332 g/210L	0.002
Lot # 654567		

$R^2 = 0.9999$



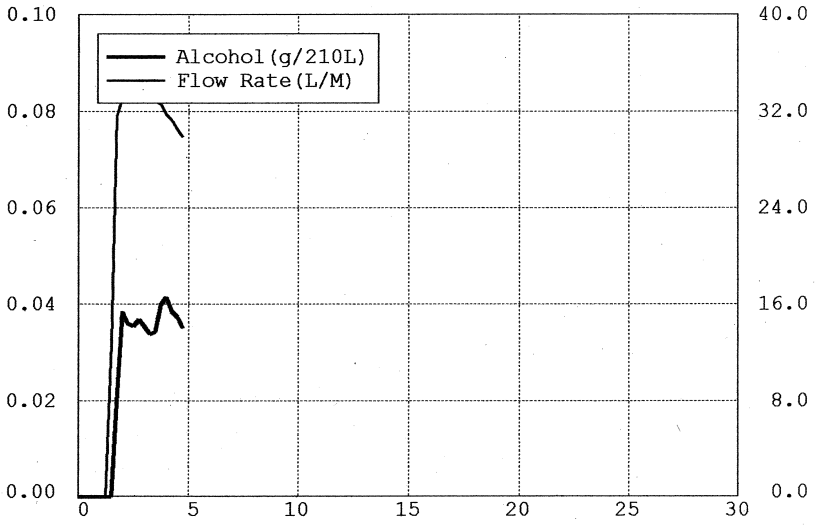
Acetone Interference Test

Lot # UT

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

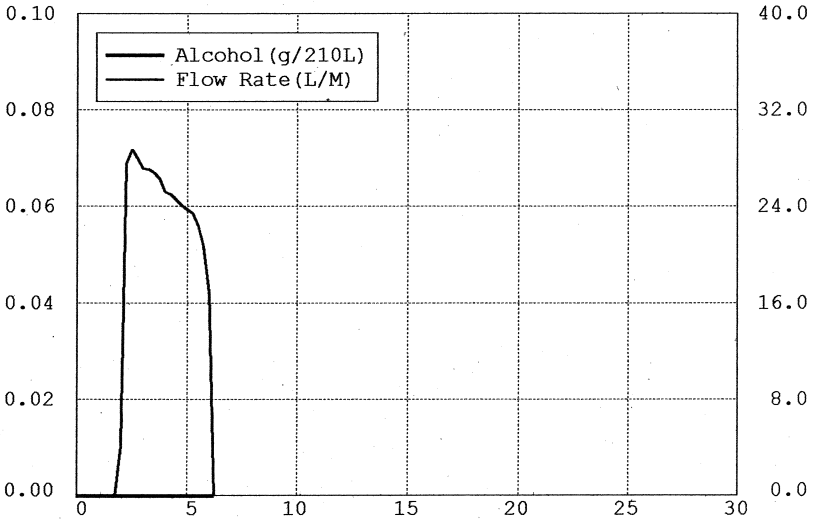


RF Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ **Date** 09/22/2009

Reviewed by _____ **Date** _____

INSTALLATION REPORT

DataMaster DMT: 104809
Location: ADDISON COUNTY SO
Calibration Date: 09/22/2009
Certification Date: 09/22/2009
Installation Date: 09/22/2009
Installed By: T T T

VERMONT
DEPARTMENT OF HEALTH

Site meets specification in doc P-ALC-210

Diagnostic Results

VERSIONS
DMT 1.03
PIC 2.05
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.80°C
Breath Tube = 44.52°C

SETTINGS
Lamp Voltage = 1.68 V
Cooler Voltage = 1.63 V
Bias Voltage = 81.2 V
Chopper Freq = 538.8 Hz

PUMP INFO
Flow Rate = 4.805 L/M

DETECTOR INFO
PUMP ON OFF
MAX(V) 0.2697 0.2715
MIN(V) 0.2673 0.2695

FILTER INFO
Filter 1 0.270 Zero = true
Filter 2 0.859 Zero = true
Filter 3 0.684 Zero = true

CALIBRATION CHECK
Xq = 0.0759 0.68%

INSTALLATION PASSED

Accuracy and Precision Check

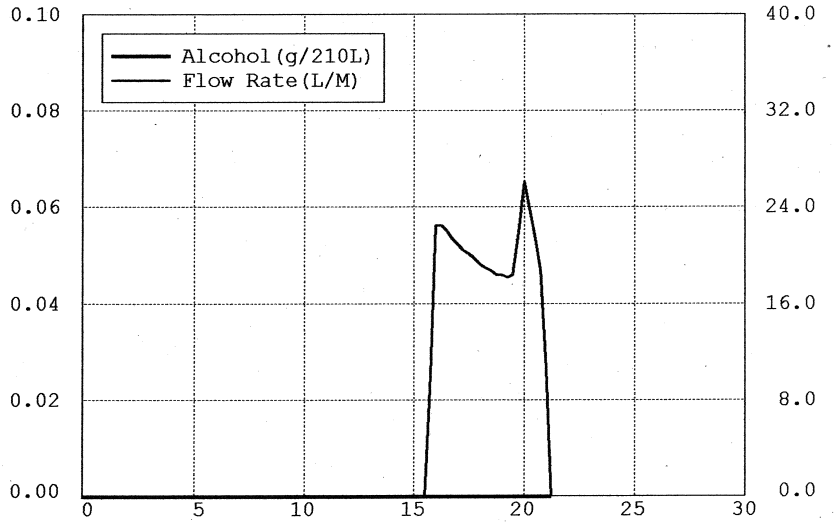
Concentration = 0.100 g/210L
Lot # = 98765
Average = 0.100 g/210L
Std Dev = 0.001

RFI Interference Test

RFI detected

Sample Acceptance Test

Passed



Performed by _____ **Date** 09/22/2009

Reviewed by _____ **Date** _____

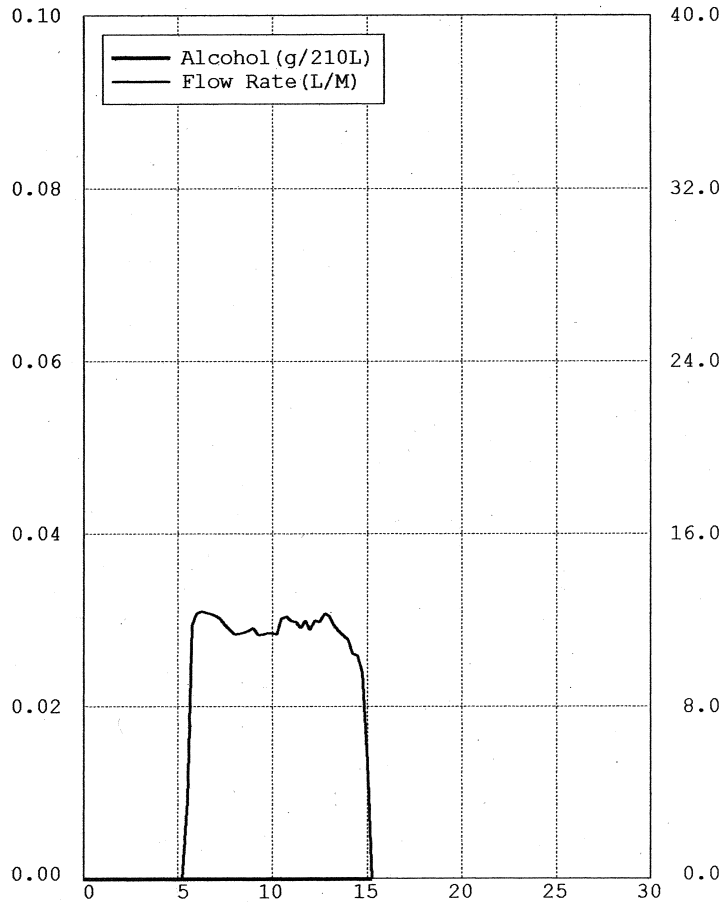
DUI Subject Test

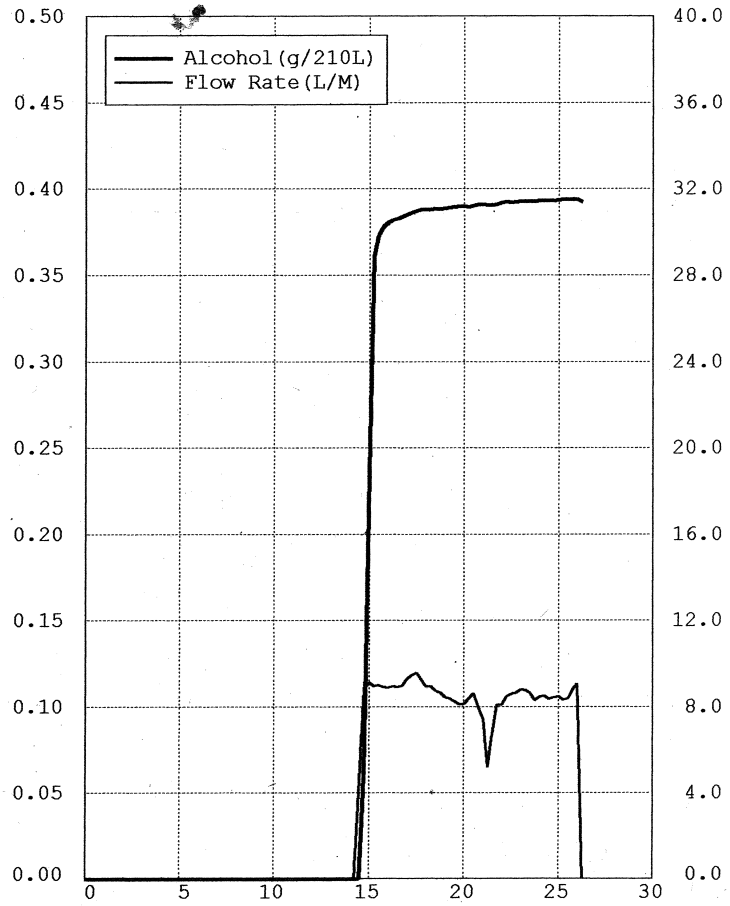
STATE OF VERMONT

DataMaster DMT: 104809
ADDISON COUNTY SO
Certification Date: 09/22/2009
Installation Date: 09/22/2009

Date: 09/23/2009
Time: 06:02:02

Obs. Period Start:		06:01
BLANK TEST	0.000	06:02
CALIBRATION CHECK	PASSED	06:03
Xq = 0.0762 (0.34%)		
SUBJECT SAMPLE (Vol=1.8L)	0.000	06:03
X[1] = 0.0000 (-0.0007) (0.0000)		
BLANK TEST	0.000	06:04
CALIBRATION CHECK	PASSED	06:04
Xq = 0.0766 (0.22%)		
SUBJECT SAMPLE (Vol=1.6L)	0.393	06:04
X[1] = 0.3934 (-0.0034) (0.0004)		





Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 104809
ADDISON COUNTY SO
Certification Date: 09/22/2009
Installation Date: 09/22/2009

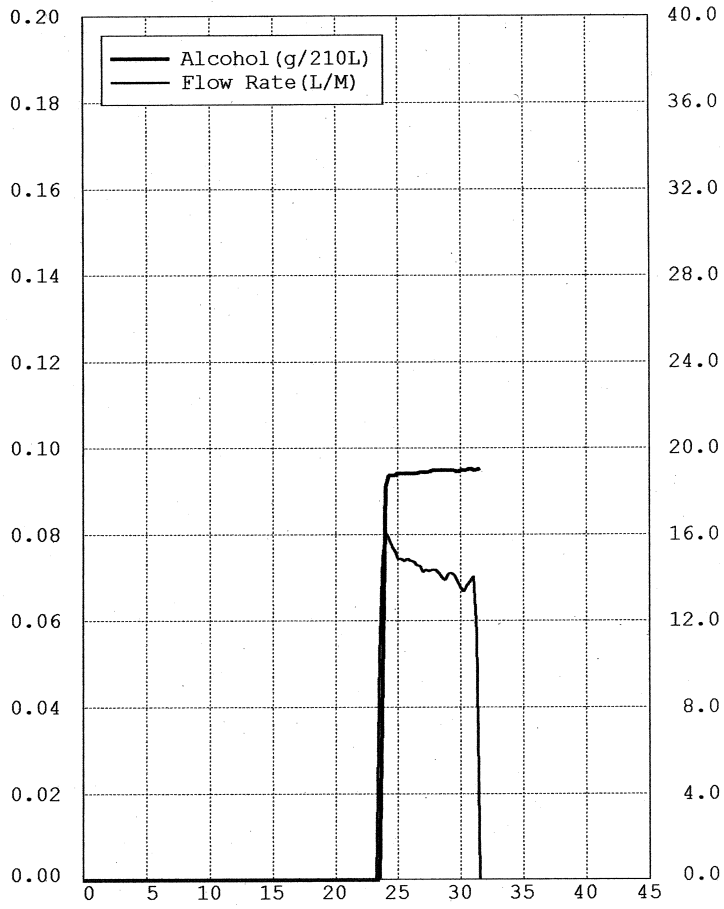
Date: 09/22/2009
Time: 11:19:07

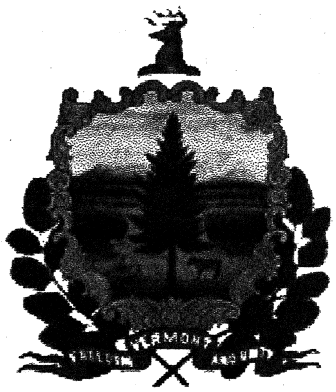
Subject Name: T T T
Date of Birth: 09/09/1980 Age: 29
Gender: M
License #:

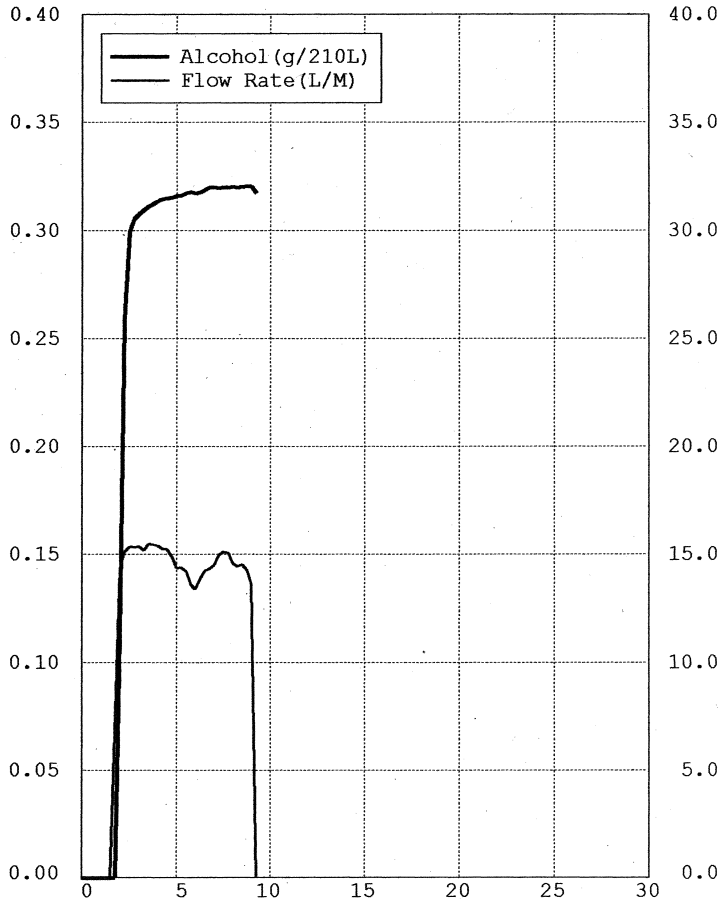
Test Operator Name: T T T
Agency: ADDISON COUNTY SO

BLANK TEST	0.000	11:20
CALIBRATION CHECK	PASSED	11:20
Xq = 0.0765 (0.00%)		
SIMULATOR VAPOR	0.100	11:20
X[1] = 0.1000 (-0.0006) (0.0015)		
BLANK TEST	0.000	11:21
SUBJECT SAMPLE (Vol=1.8L)	0.095	11:22
X[1] = 0.0959 (-0.0030) (0.0009)		

All alcohol values reported in g/210L
Sim. Vapor Concentration 0.100
Sim. Vapor Range 0.095 - 0.105







Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 104809
ADDISON COUNTY SO
Certification Date: 09/22/2009
Installation Date: 09/22/2009

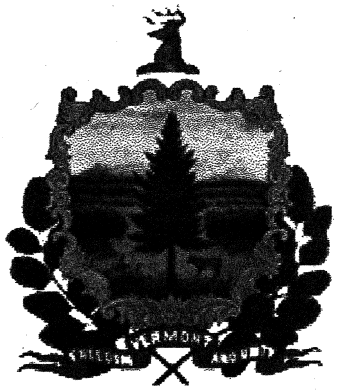
Date: 09/22/2009
Time: 11:24:27

Subject Name: T T T
Date of Birth: 09/09/9190 Age: -7181
Guardian Present: Y
Gender: M
License #:

Test Operator Name: UYTRFT U UYT
Agency: ADDISON COUNTY SO

BLANK TEST	0.000	11:25
CALIBRATION CHECK	PASSED	11:25
Xq = 0.0769 (0.56%)		
SIMULATOR VAPOR	0.098	11:25
X[1] = 0.0985 (-0.0008) (0.0013)		
BLANK TEST	0.000	11:26
SUBJECT SAMPLE (Vol=1.8L)	0.317	11:26
X[1] = 0.3179 (-0.0030) (0.0007)		

All alcohol values reported in g/210L
Sim. Vapor Concentration 0.100
Sim. Vapor Range 0.095 - 0.105



Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 104809
ADDISON COUNTY SO
Certification Date: 09/22/2009
Installation Date: 09/22/2009

Date: 09/23/2009
Time: 06:01:38

USER ABORT

All alcohol values reported in g/210L

Sim. Vapor Concentration	0.100
Sim. Vapor Range	0.095 - 0.105

DIAGNOSTIC RESULT

DataMaster DMT: 104809
Location:
Calibration Date: 09/22/2009
Certification Date:
Installation Date:
Test Date: 09/22/2009
Time: 09:11

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.05
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.86°C
Breath Tube    = 44.79°C

SETTINGS
Lamp Voltage   = 1.68 V
Cooler Voltage = 1.63 V
Bias Voltage   = 81.2 V
Chopper Freq   = 539.1 Hz

PUMP INFO
Flow Rate = 4.719 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.2626    0.2665
MIN(V)   0.2600    0.2644

FILTER INFO
Filter 1  0.265  Zero = true
Filter 2  0.858  Zero = true
Filter 3  0.674  Zero = true

CALIBRATION CHECK
Xq = 0.0769  0.56%
```

DIAGNOSTIC RESULT

DataMaster DMT: 104809
Location: ADDISON COUNTY SO
Calibration Date: 09/22/2009
Certification Date: 09/22/2009
Installation Date: 09/22/2009
Test Date: 09/23/2009
Time: 06:13

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.05
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.80°C
Breath Tube    = 47.52°C

SETTINGS
Lamp Voltage   = 1.68 V
Cooler Voltage = 1.64 V
Bias Voltage   = 81.3 V
Chopper Freq   = 538.0 Hz

PUMP INFO
Flow Rate = 4.783 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.2898    0.2870
MIN(V)   0.2831    0.2852

FILTER INFO
Filter 1   0.286   Zero = true
Filter 2   0.875   Zero = true
Filter 3   0.697   Zero = true

CALIBRATION CHECK
Xq = 0.0763   0.23%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

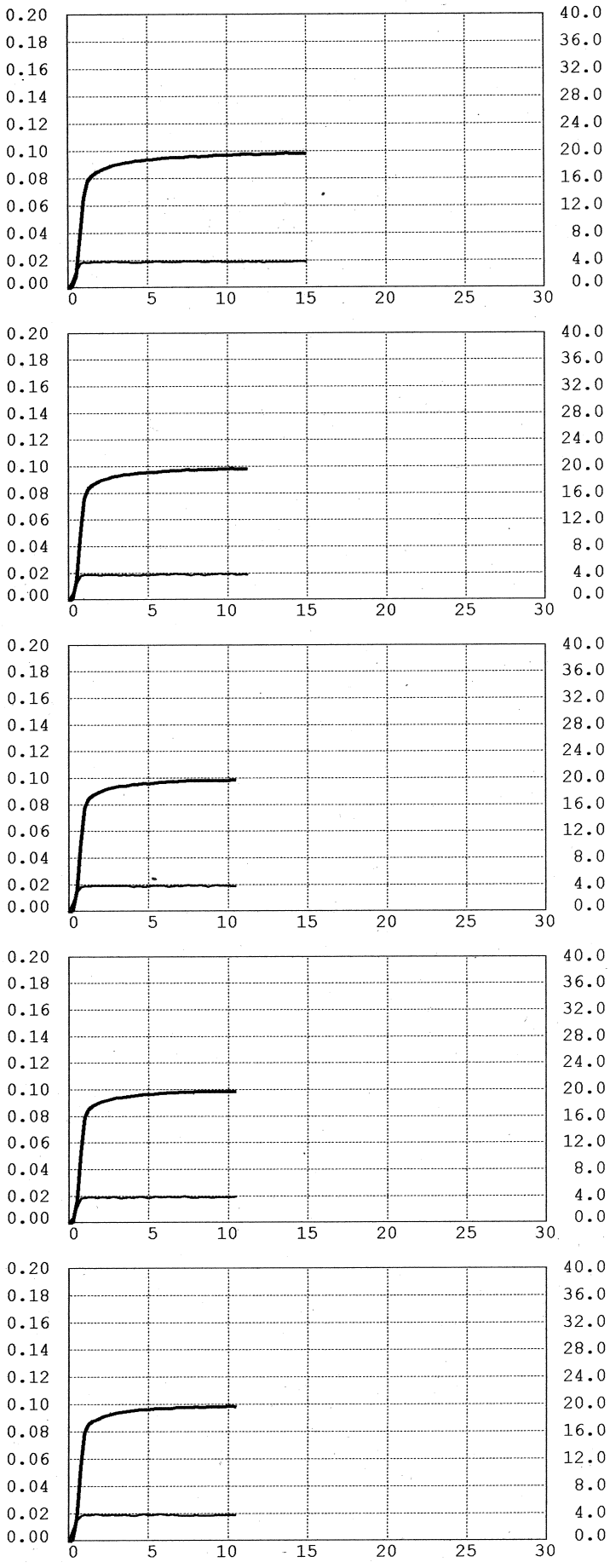
Date: 09/23/2009
Time: 05:43:51

SUPERVISOR NAME: GYUILG F GYUILGFUKH

SOLUTION LOT #: HUIOGRW
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	05:44
CALIBRATION CHECK	PASSED	05:44
Xq = 0.0766 (0.22%)		
SIMULATOR VAPOR	0.099	05:45
X[1] = 0.0992 (0.0009) (-0.0004)		
SIMULATOR VAPOR	0.099	05:46
X[1] = 0.0990 (0.0001) (-0.0010)		
SIMULATOR VAPOR	0.099	05:47
X[1] = 0.0992 (0.0001) (-0.0007)		
SIMULATOR VAPOR	0.099	05:48
X[1] = 0.0995 (0.0003) (-0.0005)		
SIMULATOR VAPOR	0.099	05:49
X[1] = 0.0995 (-0.0001) (-0.0002)		
BLANK TEST	0.000	05:50

Average = 0.099
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

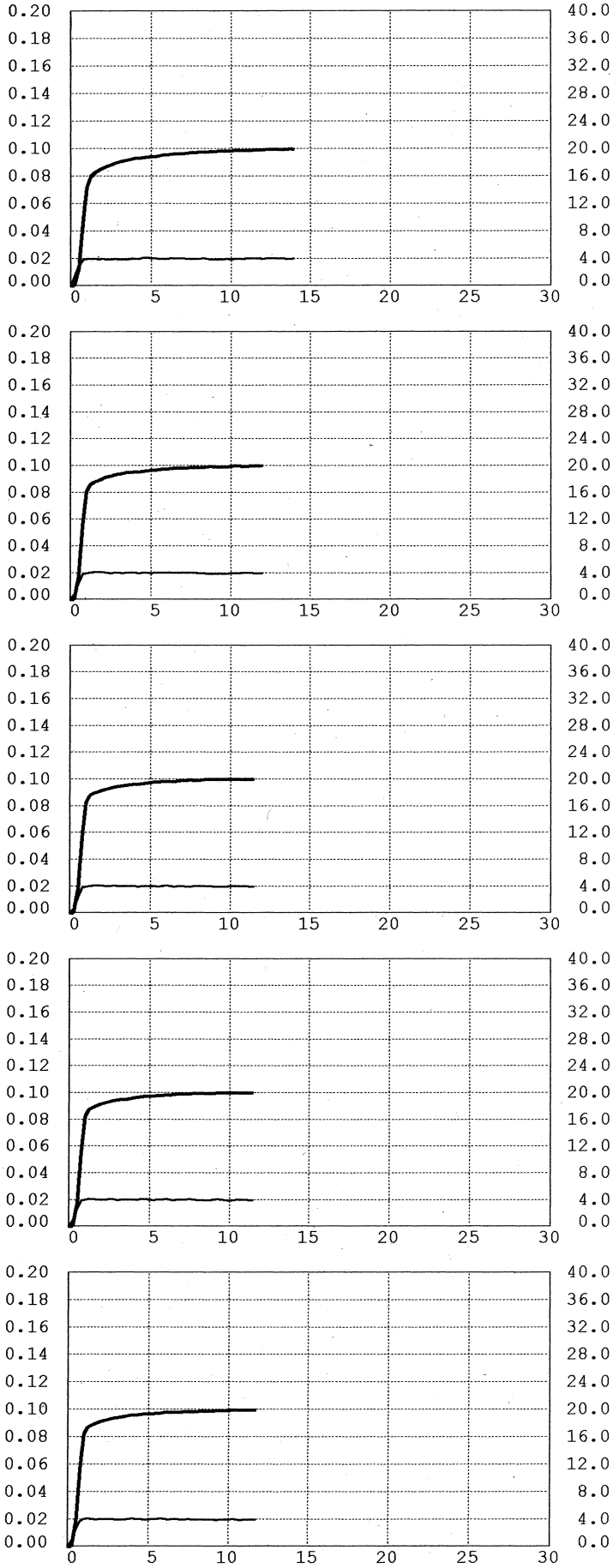
Date: 09/23/2009
Time: 05:52:51

SUPERVISOR NAME: J M K

SOLUTION LOT #: HWE'
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	05:53
CALIBRATION CHECK	PASSED	05:53
Xq = 0.0766 (0.22%)		
SIMULATOR VAPOR	0.099	05:54
X[1] = 0.0999 (0.0000) (-0.0003)		
SIMULATOR VAPOR	0.100	05:55
X[1] = 0.1005 (0.0004) (0.0003)		
SIMULATOR VAPOR	0.100	05:56
X[1] = 0.1008 (0.0006) (0.0003)		
SIMULATOR VAPOR	0.100	05:57
X[1] = 0.1008 (0.0004) (0.0000)		
SIMULATOR VAPOR	0.100	05:58
X[1] = 0.1004 (-0.0003) (0.0002)		
BLANK TEST	0.000	05:59

Average = 0.099
Std Dev = 0.0004



Section 3: Power-Up Tests

CALIBRATION REPORT

DataMaster DMT: 104809
Calibration Date: 10/20/2009
Calibrated by: A L B
Lot: 10-02-100

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.101000
CAL =  1.043967     0.800 <= CAL < 1.200
b1  =  0.000000     0.000 <=  b1 < 0.004
b2  =  0.006317     0.001 <=  b2 < 0.012
b3  =  0.000000     0.000 <=  b3 < 0.004
Xq  =  0.076334     0.050 <=  Xq < 0.200
a21 =  1.230580     1.050 <= a21 < 1.300
a31 =  0.468832     0.300 <= a31 < 0.800
```

Performed by _____ **Date** 10/20/2009

CERTIFICATION REPORT

DataMaster DMT: 104809
Calibration Date: 10/20/2009
Certification Date: 10/20/2009
Certified by: A L B

VERMONT
DEPARTMENT OF HEALTH

Diagnostic Results

VERSIONS
DMT 1.03
PIC 2.05
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 49.15°C
Breath Tube = 48.10°C

SETTINGS
Lamp Voltage = 1.70 V
Cooler Voltage = 1.66 V
Bias Voltage = 80.4 V
Chopper Freq = 542.1 Hz

PUMP INFO
Flow Rate = 5.703 L/M

DETECTOR INFO
PUMP ON OFF
MAX(V) 0.0000 0.0024
MIN(V) -0.0020 0.0008

FILTER INFO
Filter 1 0.002 Zero = true
Filter 2 0.618 Zero = true
Filter 3 0.454 Zero = true

CALIBRATION CHECK
Xq = 0.0763 0.00%

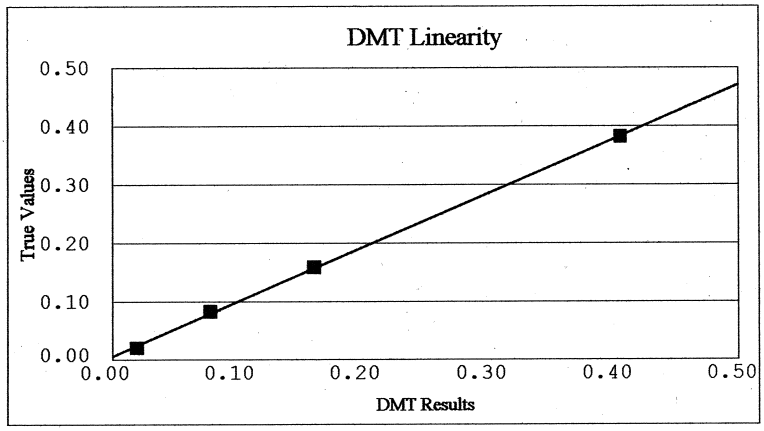
Options

Printer: yes
Number of Copies: 1
Number of Supervisor Tests: 10
Tolerance Check: yes
Data Collection: yes
Units: g/210L
Simulator Check: yes
Uses Wet Bath Simulator: yes
Simulator Nominal: 0.101
Digital Simulator: none
Simulator Before: yes
Simulator Between: yes
Simulator After: no
Number of Subject Tests: 2
AskQuestions: yes
Query Refusal: yes
Alcohol Display: yes
Show Two Digits: no
Volume Display: yes
Number of Calibration Tests: 1
Calibrate with Wet Bath: yes
Calibration Nominal: 0.100

Linearity Check Results

True Value	Reported Average	Std Dev
0.021 g/210L	0.020 g/210L	0.001
Lot # 09-34-020		
0.083 g/210L	0.079 g/210L	0.001
Lot # 09-43-080		
0.159 g/210L	0.162 g/210L	0.001
Lot # 09-38-160		
0.382 g/210L	0.405 g/210L	0.001
Lot # 09-36-400		

$R^2 = 0.9996$



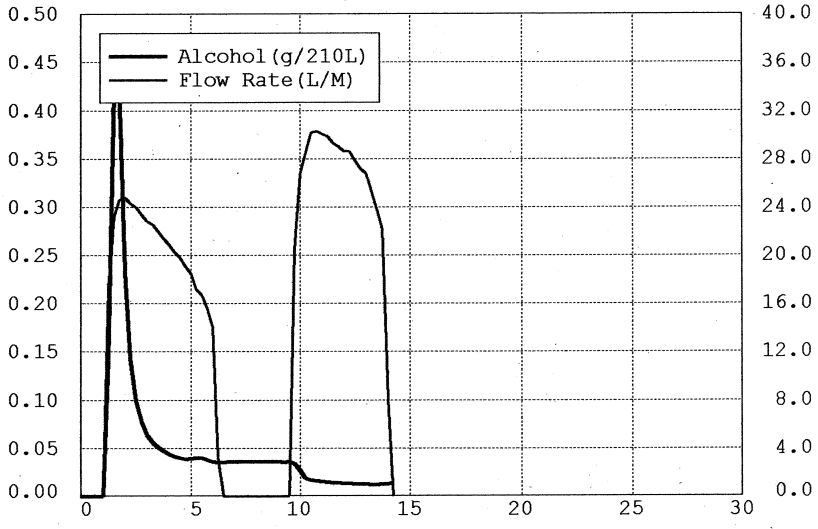
Acetone Interference Test

Lot # 10-05-08A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

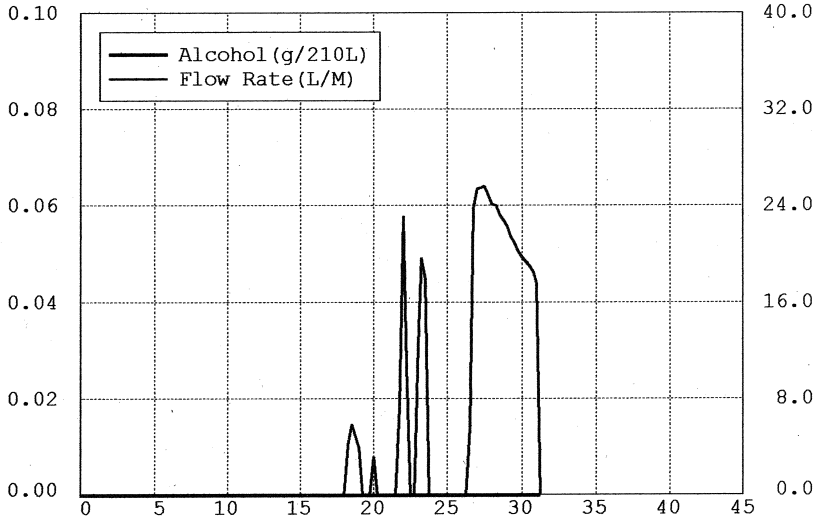


RF Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ **Date** 10/20/2009

Reviewed by _____ **Date** _____

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

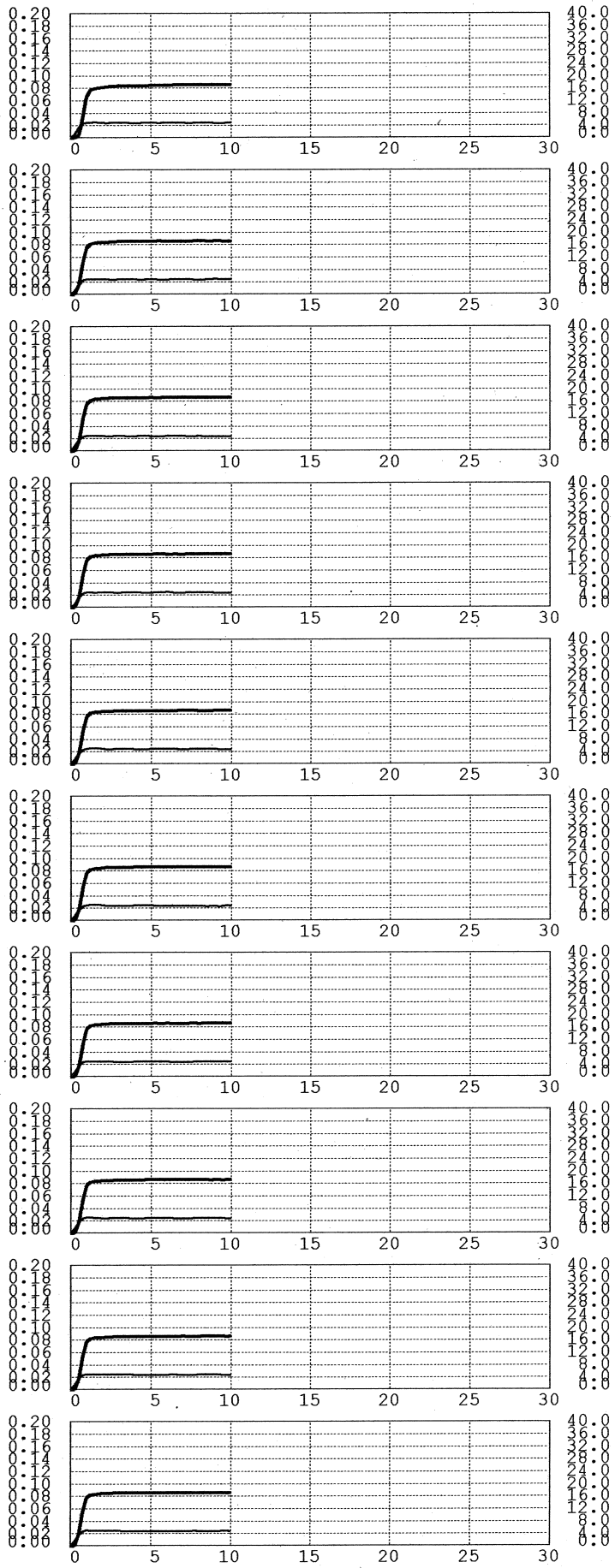
Date: 10/21/2009
Time: 07:17:15

SUPERVISOR NAME: ALB .01 ACETONE .08 ETOH

SOLUTION LOT #: 10-05-08A1
SOLUTION CONCENTRATION: 0.079

BLANK TEST	0.000	07:18
CALIBRATION CHECK	PASSED	07:18
SIMULATOR VAPOR	INTERFERENCE	07:18
SIMULATOR VAPOR	INTERFERENCE	07:19
SIMULATOR VAPOR	INTERFERENCE	07:20
SIMULATOR VAPOR	INTERFERENCE	07:21
SIMULATOR VAPOR	INTERFERENCE	07:22
SIMULATOR VAPOR	INTERFERENCE	07:23
SIMULATOR VAPOR	INTERFERENCE	07:24
SIMULATOR VAPOR	INTERFERENCE	07:25
SIMULATOR VAPOR	INTERFERENCE	07:26
SIMULATOR VAPOR	INTERFERENCE	07:27
BLANK TEST	0.000	07:28

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

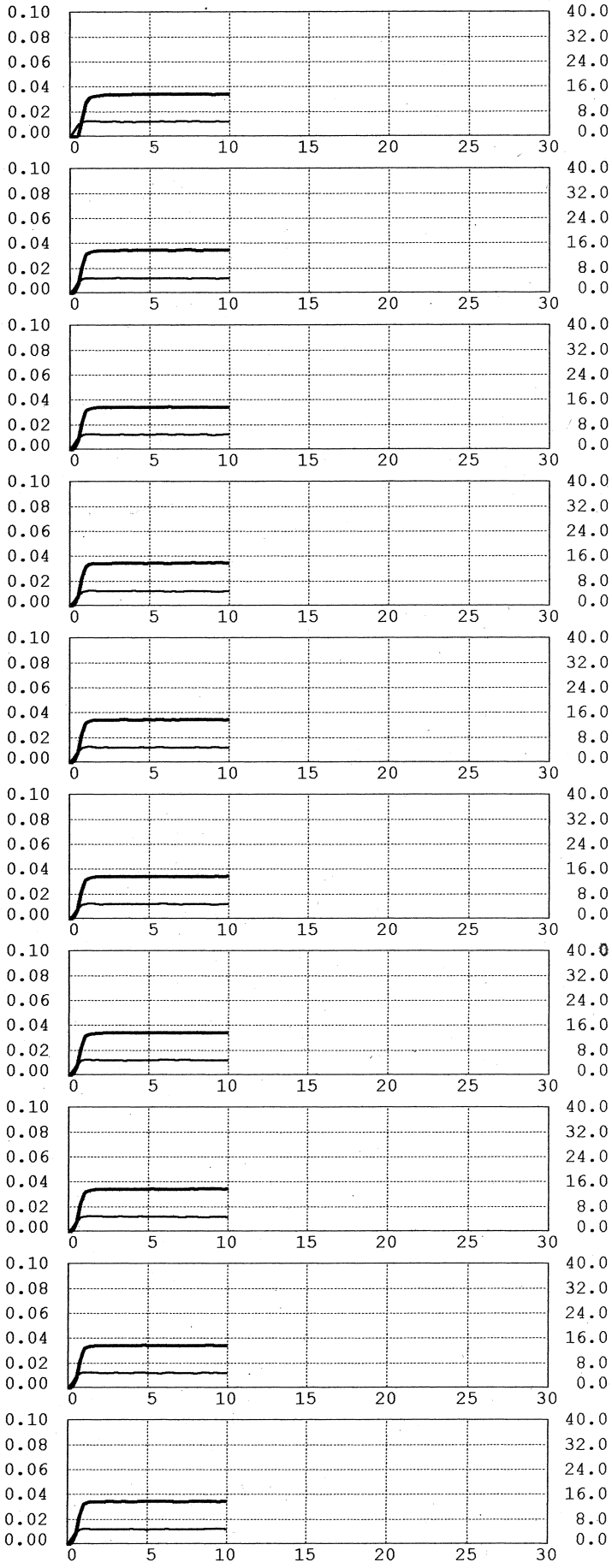
Date: 10/21/2009
Time: 09:25:10

SUPERVISOR NAME: ALB .04 MEOH IN H2O

SOLUTION LOT #: 10-07-04M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	09:26
CALIBRATION CHECK	PASSED	09:26
SIMULATOR VAPOR	INTERFERENCE	09:26
SIMULATOR VAPOR	INTERFERENCE	09:27
SIMULATOR VAPOR	INTERFERENCE	09:28
SIMULATOR VAPOR	INTERFERENCE	09:29
SIMULATOR VAPOR	INTERFERENCE	09:30
SIMULATOR VAPOR	INTERFERENCE	09:31
SIMULATOR VAPOR	INTERFERENCE	09:32
SIMULATOR VAPOR	INTERFERENCE	09:33
SIMULATOR VAPOR	INTERFERENCE	09:34
SIMULATOR VAPOR	INTERFERENCE	09:35
BLANK TEST	0.000	09:36

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

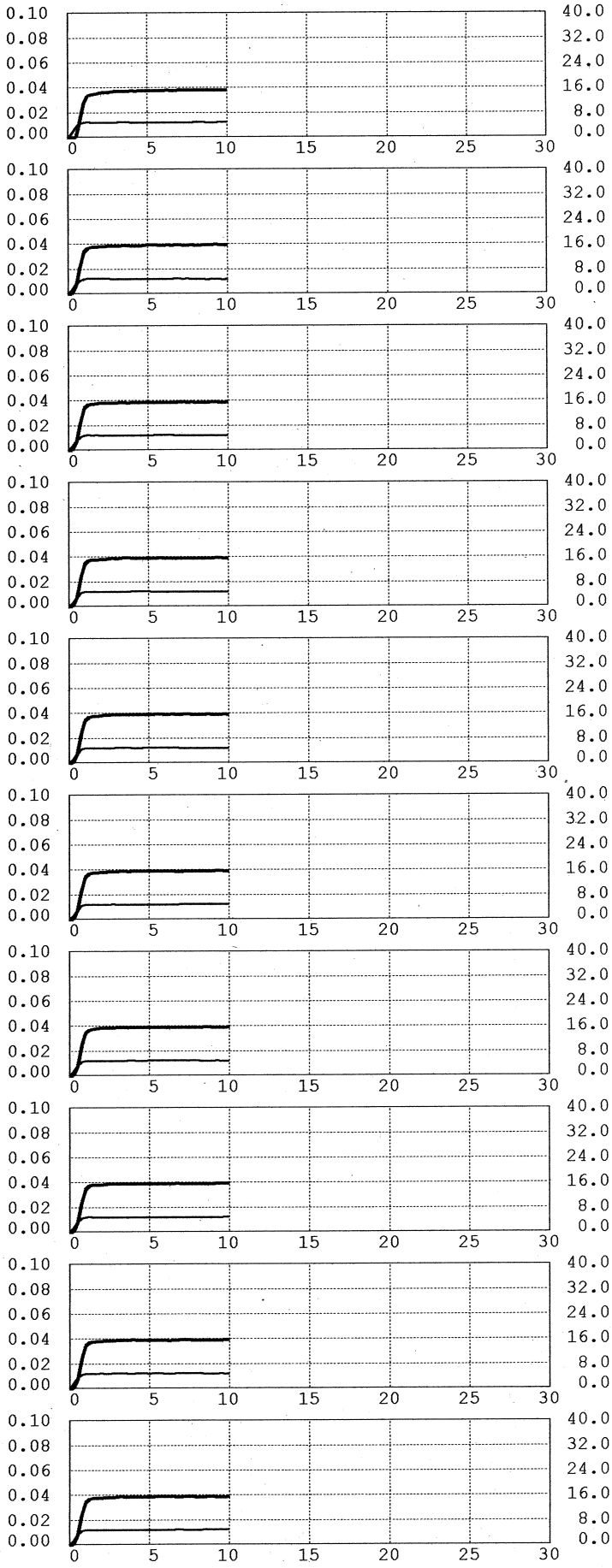
DataMaster DMT: 104809

Date: 10/21/2009
Time: 09:39:06

SUPERVISOR NAME: ALB .04IPA IN H2O

SOLUTION LOT #: ~~10-06-04I~~ 10-16-04I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	09:40
CALIBRATION CHECK	PASSED	09:40
SIMULATOR VAPOR	INTERFERENCE	09:40
SIMULATOR VAPOR	INTERFERENCE	09:41
SIMULATOR VAPOR	INTERFERENCE	09:42
SIMULATOR VAPOR	INTERFERENCE	09:43
SIMULATOR VAPOR	INTERFERENCE	09:44
SIMULATOR VAPOR	INTERFERENCE	09:45
SIMULATOR VAPOR	INTERFERENCE	09:46
SIMULATOR VAPOR	INTERFERENCE	09:47
SIMULATOR VAPOR	INTERFERENCE	09:48
SIMULATOR VAPOR	INTERFERENCE	09:49
BLANK TEST	0.000	09:49



Section 4: Linearity

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

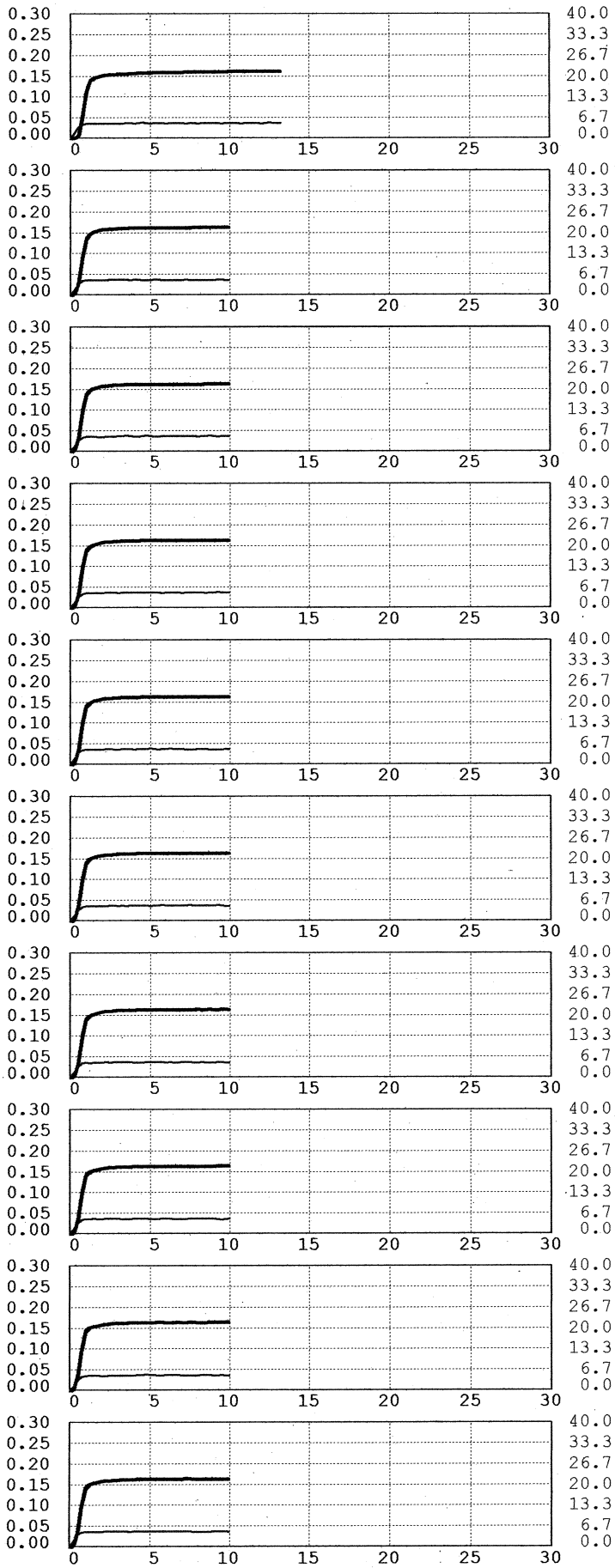
Date: 11/02/2009
Time: 07:27:57

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-38-160
SOLUTION CONCENTRATION: 0.159

BLANK TEST	0.000	07:28
CALIBRATION CHECK	PASSED	07:28
SIMULATOR VAPOR	0.162	07:29
SIMULATOR VAPOR	0.163	07:30
SIMULATOR VAPOR	0.162	07:31
SIMULATOR VAPOR	0.163	07:32
SIMULATOR VAPOR	0.163	07:33
SIMULATOR VAPOR	0.163	07:34
SIMULATOR VAPOR	0.163	07:35
SIMULATOR VAPOR	0.164	07:36
SIMULATOR VAPOR	0.164	07:37
SIMULATOR VAPOR	0.163	07:38
BLANK TEST	0.000	07:39

Average = 0.163
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

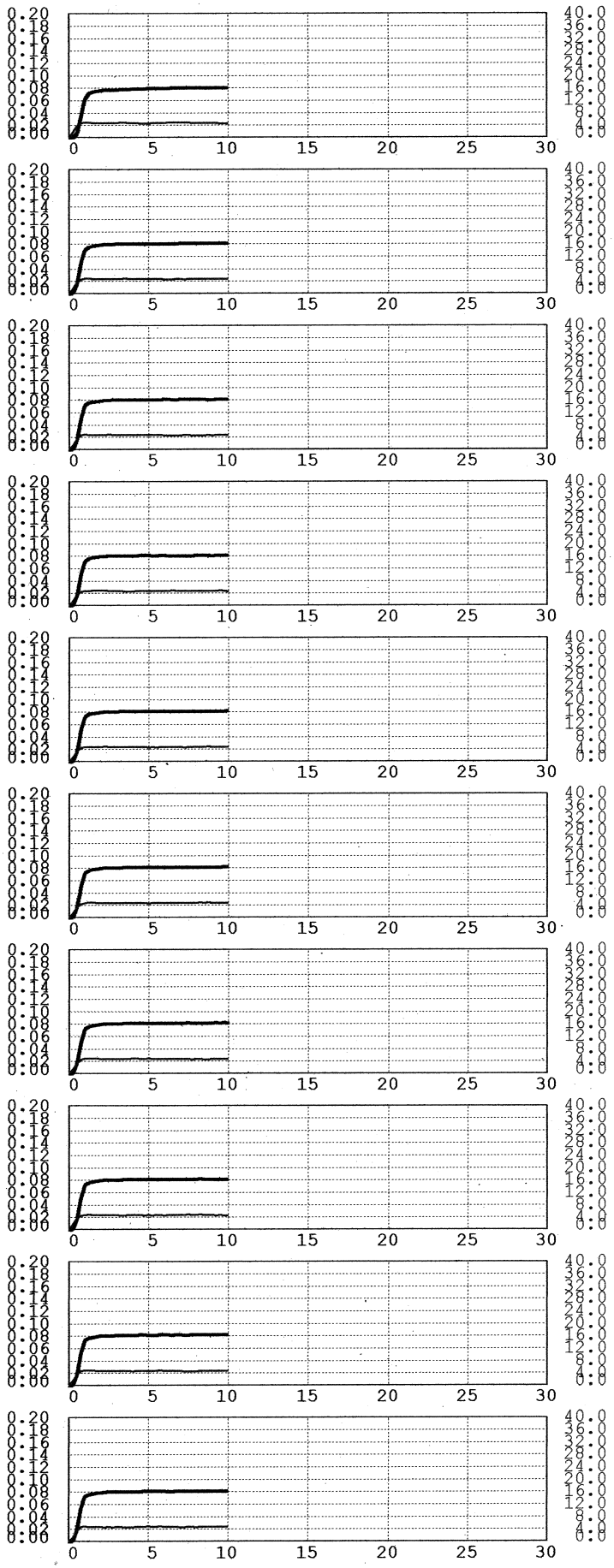
Date: 11/02/2009
Time: 07:56:20

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-43-080
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	07:57
CALIBRATION CHECK	PASSED	07:57
SIMULATOR VAPOR	0.081	07:57
SIMULATOR VAPOR	0.082	07:58
SIMULATOR VAPOR	0.081	07:59
SIMULATOR VAPOR	0.081	08:00
SIMULATOR VAPOR	0.082	08:01
SIMULATOR VAPOR	0.082	08:02
SIMULATOR VAPOR	0.082	08:03
SIMULATOR VAPOR	0.082	08:04
SIMULATOR VAPOR	0.082	08:05
SIMULATOR VAPOR	0.081	08:06
BLANK TEST	0.000	08:07

Average = 0.081
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

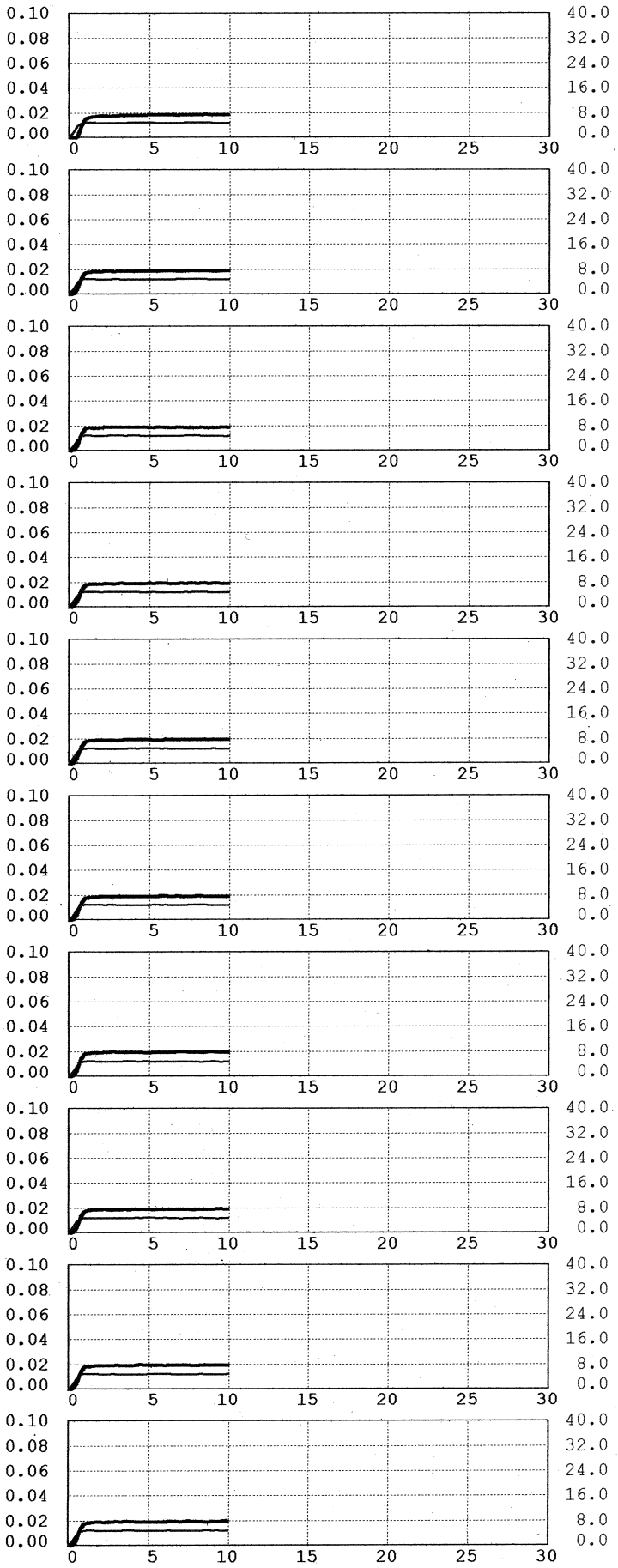
Date: 11/02/2009
Time: 08:15:43

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-13-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	08:16
CALIBRATION CHECK	PASSED	08:16
SIMULATOR VAPOR	0.019	08:17
SIMULATOR VAPOR	0.019	08:18
SIMULATOR VAPOR	0.019	08:19
SIMULATOR VAPOR	0.020	08:19
SIMULATOR VAPOR	0.020	08:20
SIMULATOR VAPOR	0.020	08:21
SIMULATOR VAPOR	0.020	08:22
SIMULATOR VAPOR	0.019	08:23
SIMULATOR VAPOR	0.020	08:24
SIMULATOR VAPOR	0.020	08:25
BLANK TEST	0.000	08:26

Average = 0.019
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

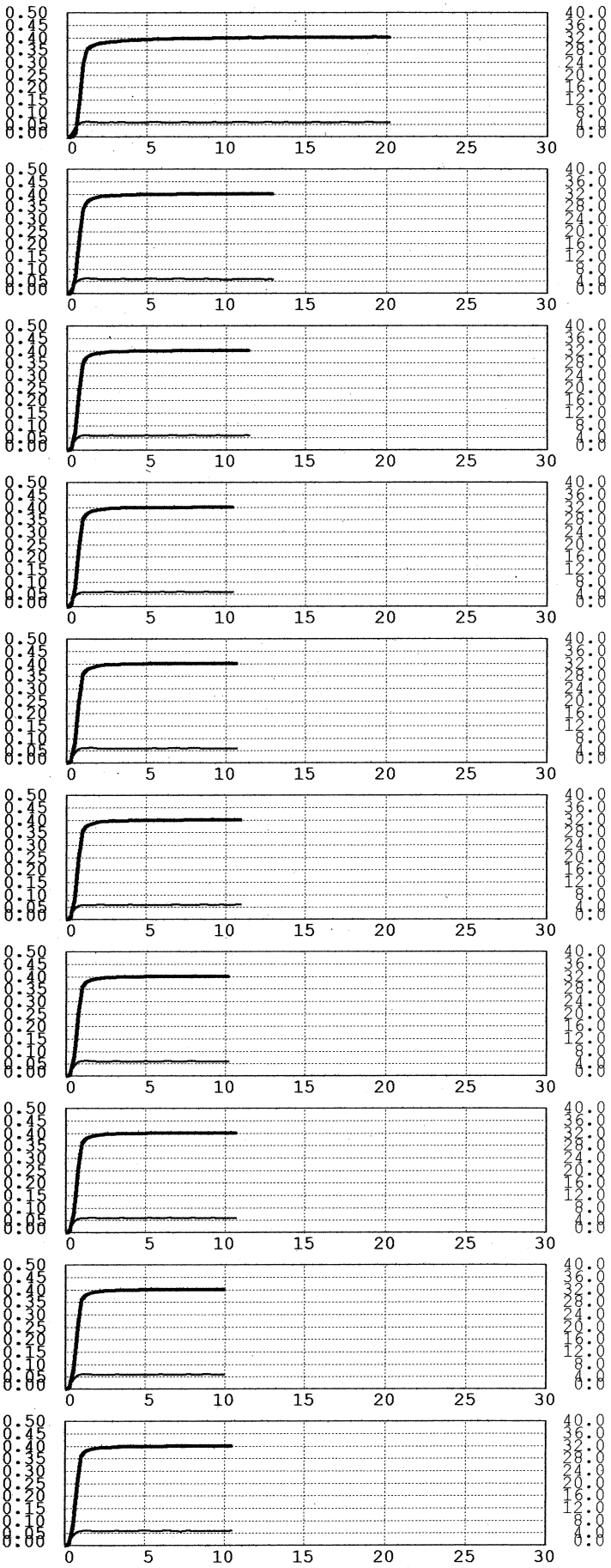
Date: 11/02/2009
Time: 08:29:28

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-14-400
SOLUTION CONCENTRATION: 0.387

BLANK TEST	0.000	08:30
CALIBRATION CHECK	PASSED	08:30
SIMULATOR VAPOR	0.400	08:30
SIMULATOR VAPOR	0.399	08:32
SIMULATOR VAPOR	0.399	08:33
SIMULATOR VAPOR	0.399	08:34
SIMULATOR VAPOR	0.400	08:35
SIMULATOR VAPOR	0.399	08:36
SIMULATOR VAPOR	0.400	08:37
SIMULATOR VAPOR	0.400	08:38
SIMULATOR VAPOR	0.400	08:39
SIMULATOR VAPOR	0.399	08:40
BLANK TEST	0.000	08:41

Average = 0.399
Std Dev = 0.0005



DIAGNOSTIC RESULT

DataMaster DMT: 104809
Location:
Calibration Date: 10/20/2009
Certification Date: 10/20/2009
Installation Date: 10/20/2009
Test Date: 11/20/2009
Time: 05:32

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.05
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.80°C
Breath Tube    = 48.09°C

SETTINGS
Lamp Voltage   = 1.70 V
Cooler Voltage = 1.66 V
Bias Voltage   = 80.4 V
Chopper Freq   = 541.5 Hz

PUMP INFO
Flow Rate = 5.605 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V) -0.0254   -0.0217
MIN(V) -0.0266   -0.0240

FILTER INFO
Filter 1 -0.022  Zero = true
Filter 2  0.602  Zero = true
Filter 3  0.438  Zero = true

CALIBRATION CHECK
Xq = 0.0756  0.91%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

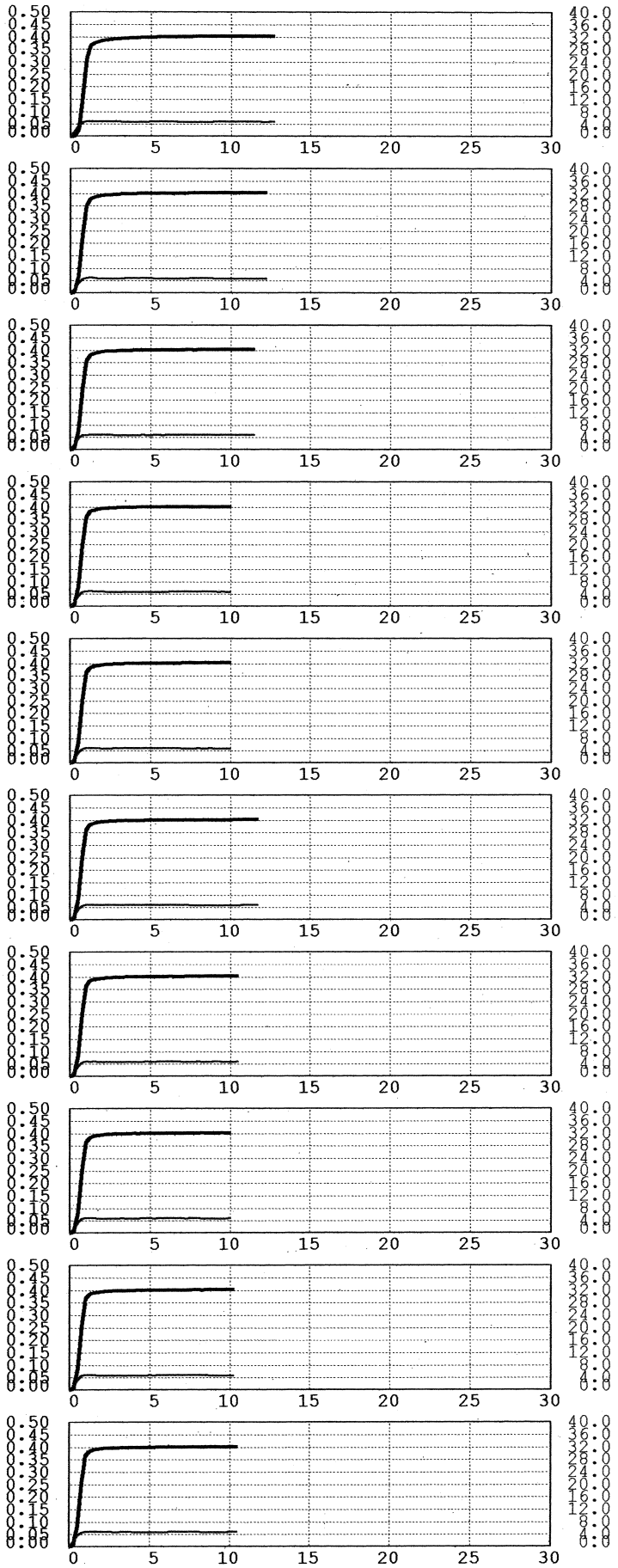
Date: 11/20/2009
Time: 05:34:33

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-14-400
SOLUTION CONCENTRATION: 0.387

BLANK TEST	0.000	05:35
CALIBRATION CHECK	PASSED	05:35
SIMULATOR VAPOR	0.402	05:35
SIMULATOR VAPOR	0.401	05:37
SIMULATOR VAPOR	0.402	05:38
SIMULATOR VAPOR	0.401	05:39
SIMULATOR VAPOR	0.401	05:40
SIMULATOR VAPOR	0.401	05:41
SIMULATOR VAPOR	0.402	05:42
SIMULATOR VAPOR	0.401	05:43
SIMULATOR VAPOR	0.401	05:44
SIMULATOR VAPOR	0.400	05:45
BLANK TEST	0.000	05:46

Average = 0.401
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

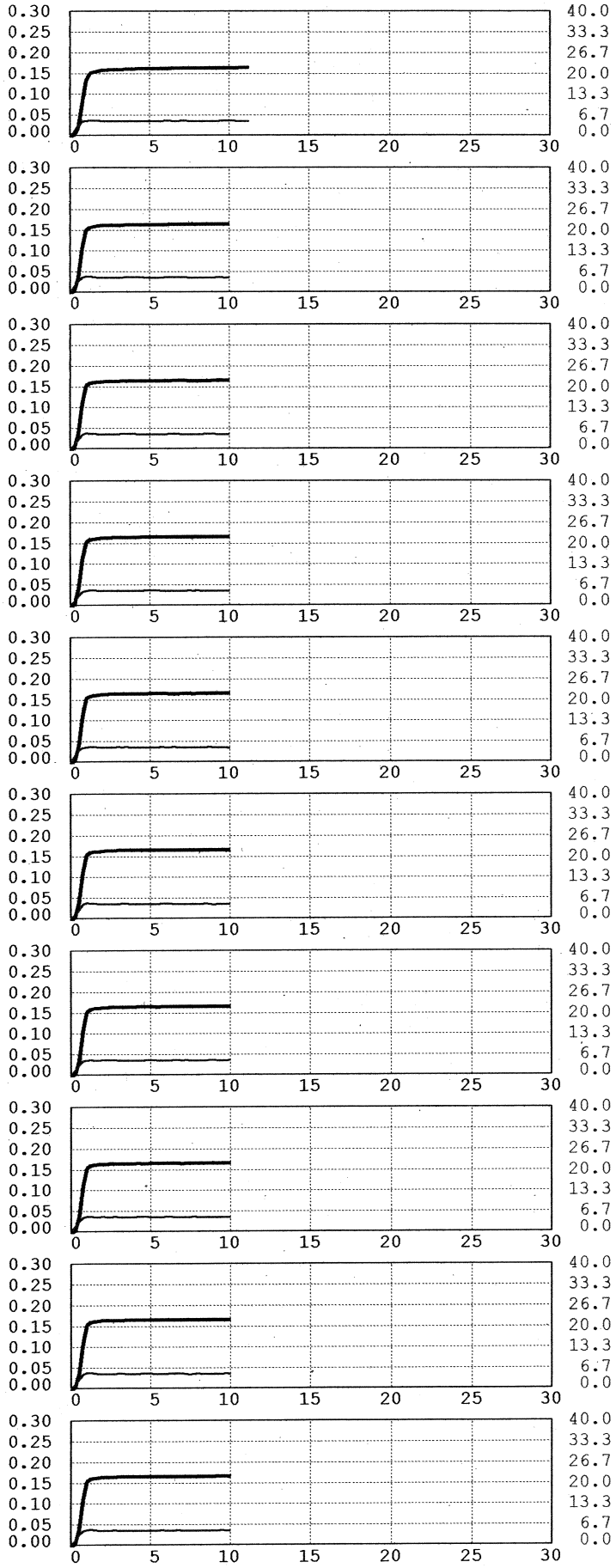
Date: 11/20/2009
Time: 05:49:55

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-38-160
SOLUTION CONCENTRATION: 0.159

BLANK TEST	0.000	05:50
CALIBRATION CHECK	PASSED	05:50
SIMULATOR VAPOR	0.163	05:51
SIMULATOR VAPOR	0.164	05:52
SIMULATOR VAPOR	0.164	05:53
SIMULATOR VAPOR	0.164	05:54
SIMULATOR VAPOR	0.165	05:55
SIMULATOR VAPOR	0.165	05:56
SIMULATOR VAPOR	0.165	05:57
SIMULATOR VAPOR	0.165	05:58
SIMULATOR VAPOR	0.165	05:59
SIMULATOR VAPOR	0.165	06:00
BLANK TEST	0.000	06:01

Average = 0.164
Std Dev = 0.0007



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

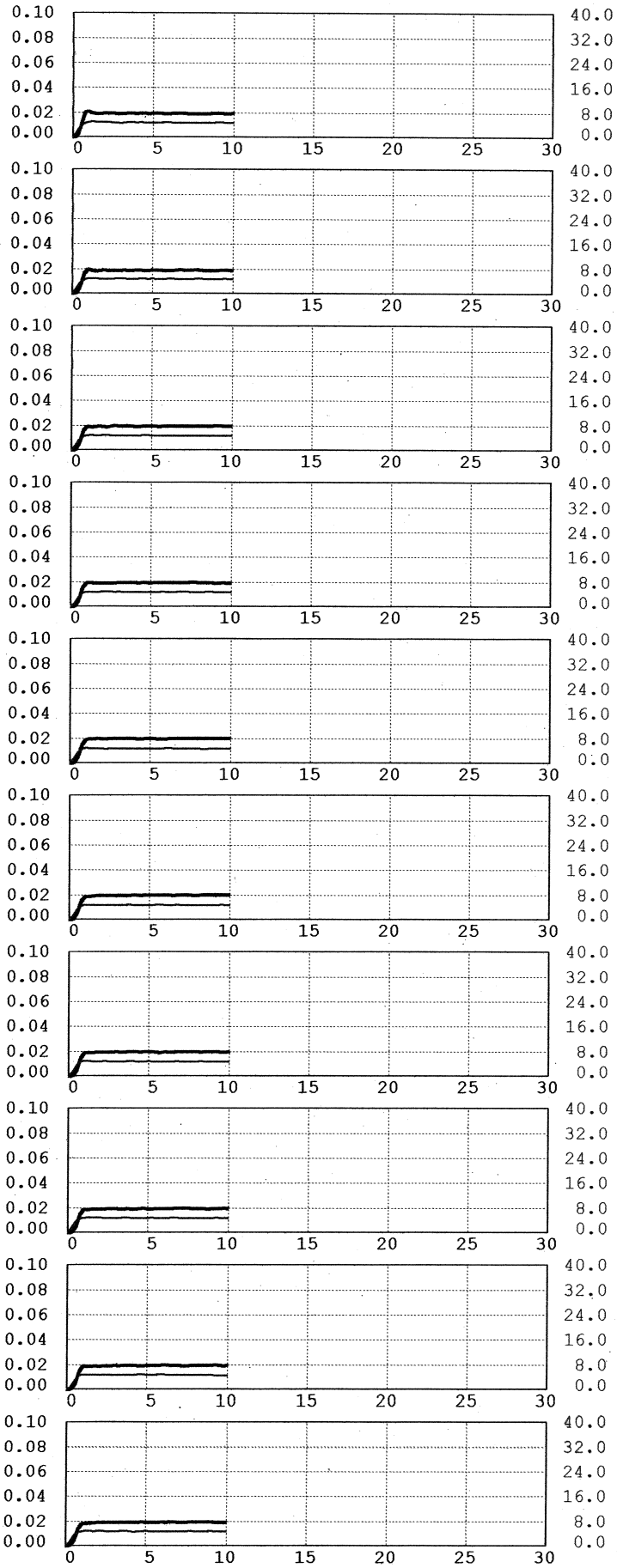
Date: 11/20/2009
Time: 06:33:09

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-13-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	06:34
CALIBRATION CHECK	PASSED	06:34
SIMULATOR VAPOR	0.019	06:34
SIMULATOR VAPOR	0.019	06:35
SIMULATOR VAPOR	0.020	06:36
SIMULATOR VAPOR	0.020	06:37
SIMULATOR VAPOR	0.020	06:38
SIMULATOR VAPOR	0.020	06:39
SIMULATOR VAPOR	0.020	06:40
SIMULATOR VAPOR	0.020	06:41
SIMULATOR VAPOR	0.020	06:42
SIMULATOR VAPOR	0.020	06:43
BLANK TEST	0.000	06:44

Average = 0.019
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

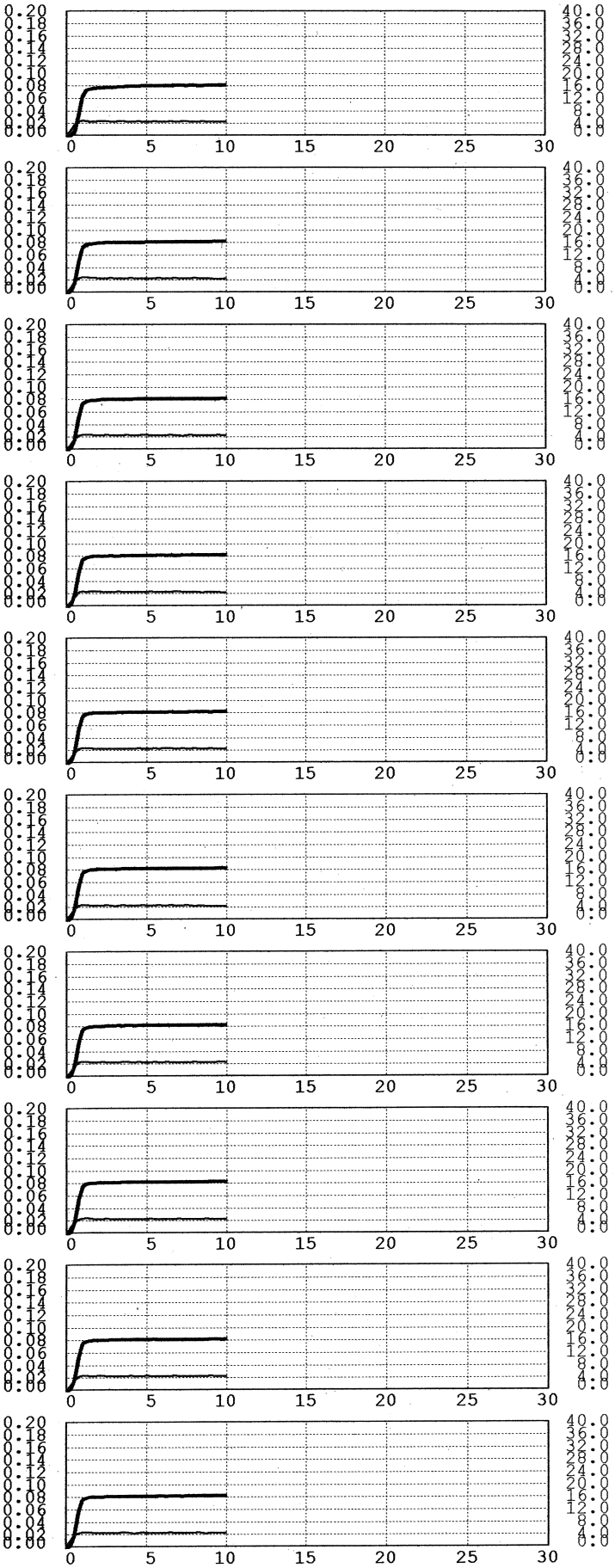
Date: 11/20/2009
Time: 06:45:39

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-43-080
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	06:46
CALIBRATION CHECK	PASSED	06:46
SIMULATOR VAPOR	0.081	06:46
SIMULATOR VAPOR	0.082	06:47
SIMULATOR VAPOR	0.081	06:48
SIMULATOR VAPOR	0.082	06:49
SIMULATOR VAPOR	0.082	06:50
SIMULATOR VAPOR	0.083	06:51
SIMULATOR VAPOR	0.082	06:52
SIMULATOR VAPOR	0.082	06:53
SIMULATOR VAPOR	0.081	06:54
SIMULATOR VAPOR	0.082	06:55
BLANK TEST	0.000	06:56

Average = 0.081
Std Dev = 0.0006



DIAGNOSTIC RESULT

DataMaster DMT: 104809
Location:
Calibration Date: 10/20/2009
Certification Date: 10/20/2009
Installation Date: 10/20/2009
Test Date: 11/23/2009
Time: 04:07

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.05
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.86°C
Breath Tube    = 48.07°C

SETTINGS
Lamp Voltage   = 1.70 V
Cooler Voltage = 1.66 V
Bias Voltage   = 80.4 V
Chopper Freq   = 542.4 Hz

PUMP INFO
Flow Rate = 5.804 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)  -0.0335   -0.0305
MIN(V)  -0.0356   -0.0327

FILTER INFO
Filter 1 -0.032  Zero = true
Filter 2  0.590  Zero = true
Filter 3  0.429  Zero = true

CALIBRATION CHECK
Xq = 0.0759  0.45%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

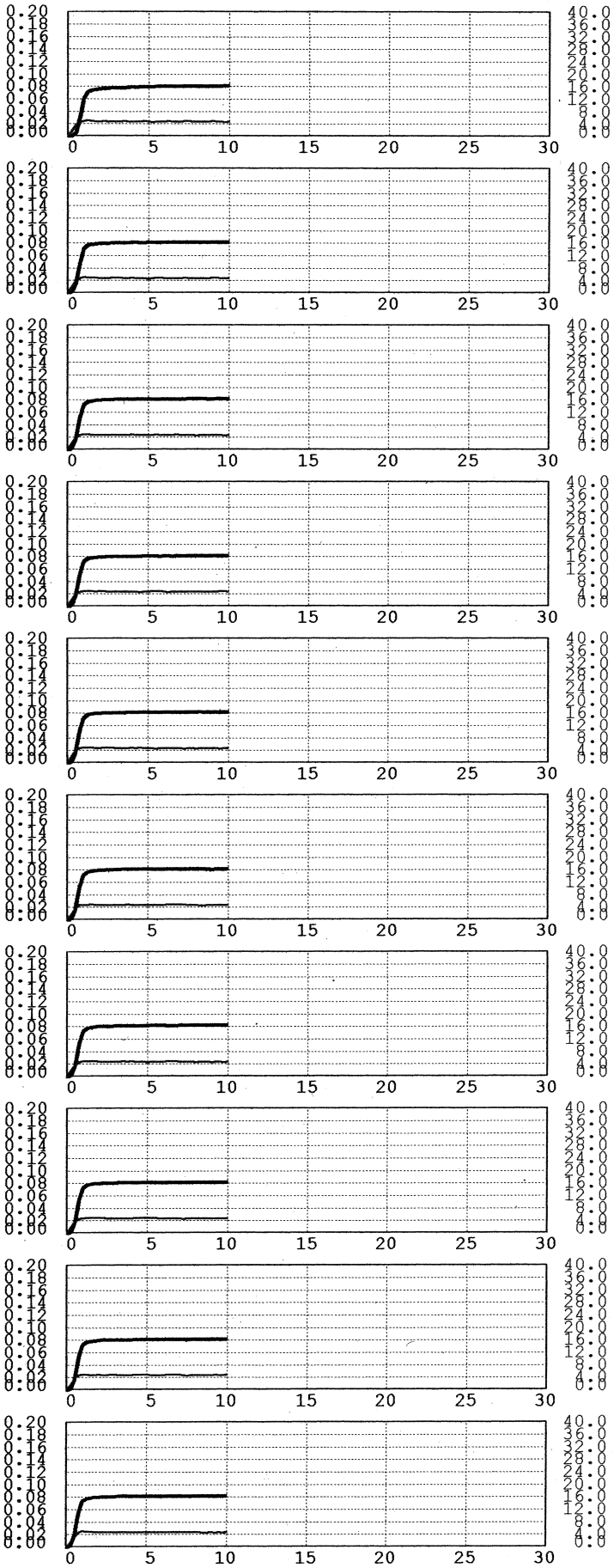
Date: 11/23/2009
Time: 04:09:07

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-43-080
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	04:10
CALIBRATION CHECK	PASSED	04:10
SIMULATOR VAPOR	0.081	04:10
SIMULATOR VAPOR	0.082	04:11
SIMULATOR VAPOR	0.082	04:12
SIMULATOR VAPOR	0.081	04:13
SIMULATOR VAPOR	0.082	04:14
SIMULATOR VAPOR	0.082	04:15
SIMULATOR VAPOR	0.082	04:16
SIMULATOR VAPOR	0.082	04:17
SIMULATOR VAPOR	0.082	04:18
SIMULATOR VAPOR	0.082	04:19
BLANK TEST	0.000	04:20

Average = 0.081
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

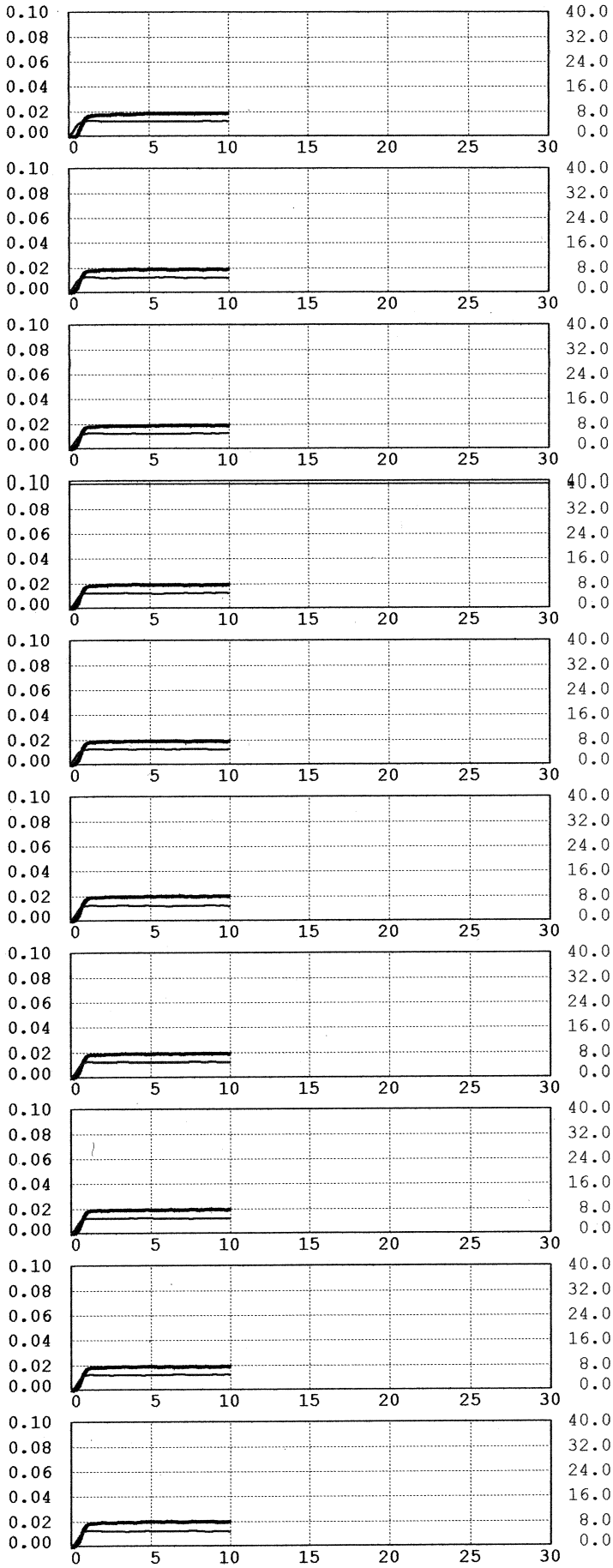
Date: 11/23/2009
Time: 05:02:57

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-13-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	05:03
CALIBRATION CHECK	PASSED	05:03
SIMULATOR VAPOR	0.019	05:04
SIMULATOR VAPOR	0.020	05:05
SIMULATOR VAPOR	0.019	05:06
SIMULATOR VAPOR	0.020	05:07
SIMULATOR VAPOR	0.020	05:08
SIMULATOR VAPOR	0.020	05:09
SIMULATOR VAPOR	0.020	05:10
SIMULATOR VAPOR	0.020	05:11
SIMULATOR VAPOR	0.019	05:12
SIMULATOR VAPOR	0.020	05:13
BLANK TEST	0.000	05:13

Average = 0.019
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

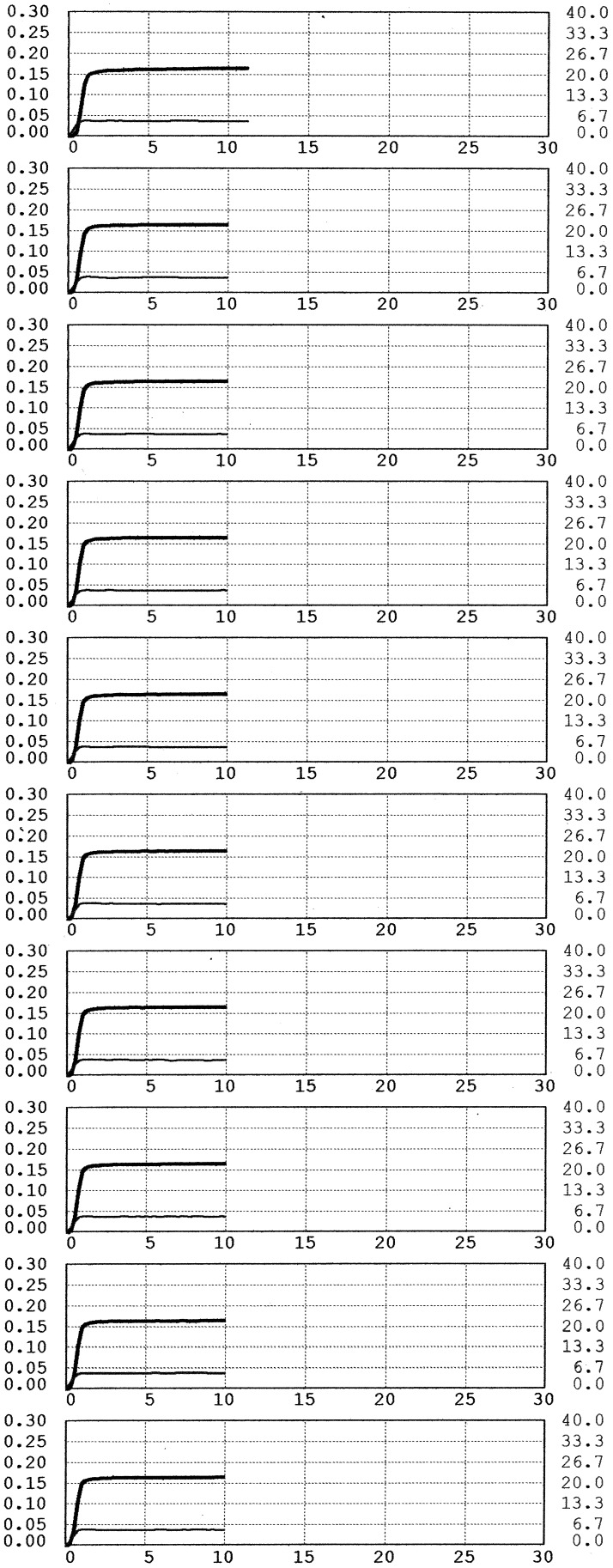
Date: 11/23/2009
Time: 06:45:19

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-38-160
SOLUTION CONCENTRATION: 0.159

BLANK TEST	0.000	06:46
CALIBRATION CHECK	PASSED	06:46
SIMULATOR VAPOR	0.163	06:46
SIMULATOR VAPOR	0.164	06:47
SIMULATOR VAPOR	0.164	06:48
SIMULATOR VAPOR	0.164	06:49
SIMULATOR VAPOR	0.163	06:50
SIMULATOR VAPOR	0.163	06:51
SIMULATOR VAPOR	0.164	06:52
SIMULATOR VAPOR	0.163	06:53
SIMULATOR VAPOR	0.163	06:54
SIMULATOR VAPOR	0.163	06:55
BLANK TEST	0.000	06:56

Average = 0.163
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

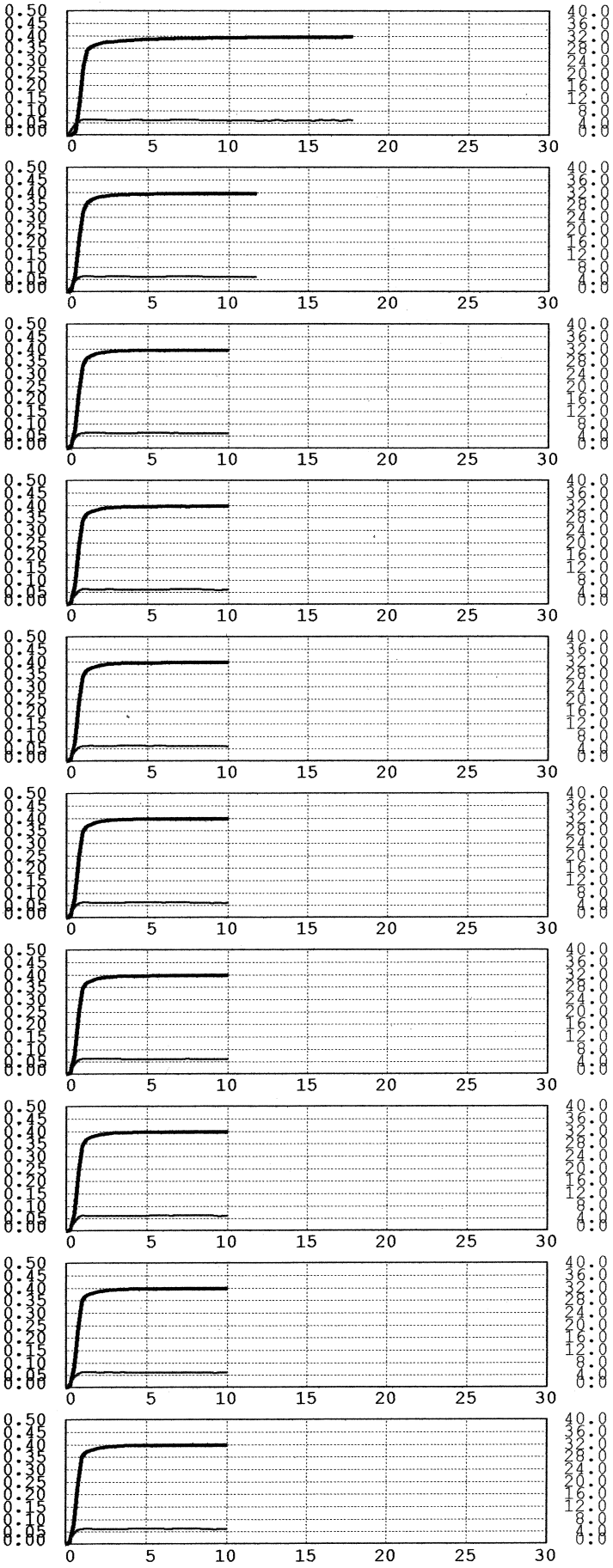
Date: 11/23/2009
Time: 09:16:56

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-14-400
SOLUTION CONCENTRATION: 0.387

BLANK TEST	0.000	09:17
CALIBRATION CHECK	PASSED	09:17
SIMULATOR VAPOR	0.393	09:18
SIMULATOR VAPOR	0.393	09:19
SIMULATOR VAPOR	0.393	09:20
SIMULATOR VAPOR	0.394	09:21
SIMULATOR VAPOR	0.394	09:22
SIMULATOR VAPOR	0.394	09:23
SIMULATOR VAPOR	0.395	09:24
SIMULATOR VAPOR	0.395	09:25
SIMULATOR VAPOR	0.396	09:26
SIMULATOR VAPOR	0.395	09:27
BLANK TEST	0.000	09:28

Average = 0.394
Std Dev = 0.0010



DIAGNOSTIC RESULT

DataMaster DMT: 104809
Location:
Calibration Date: 10/20/2009
Certification Date: 10/20/2009
Installation Date: 10/20/2009
Test Date: 11/23/2009
Time: 10:38

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.05
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.86°C
Breath Tube    = 48.09°C

SETTINGS
Lamp Voltage   = 1.70 V
Cooler Voltage = 1.66 V
Bias Voltage   = 80.4 V
Chopper Freq   = 541.0 Hz

PUMP INFO
Flow Rate = 5.787 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)  -0.0358   -0.0358
MIN(V)  -0.0409   -0.0374

FILTER INFO
Filter 1 -0.037   Zero = true
Filter 2  0.590   Zero = true
Filter 3  0.418   Zero = true

CALIBRATION CHECK
Xq = 0.0765  0.34%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

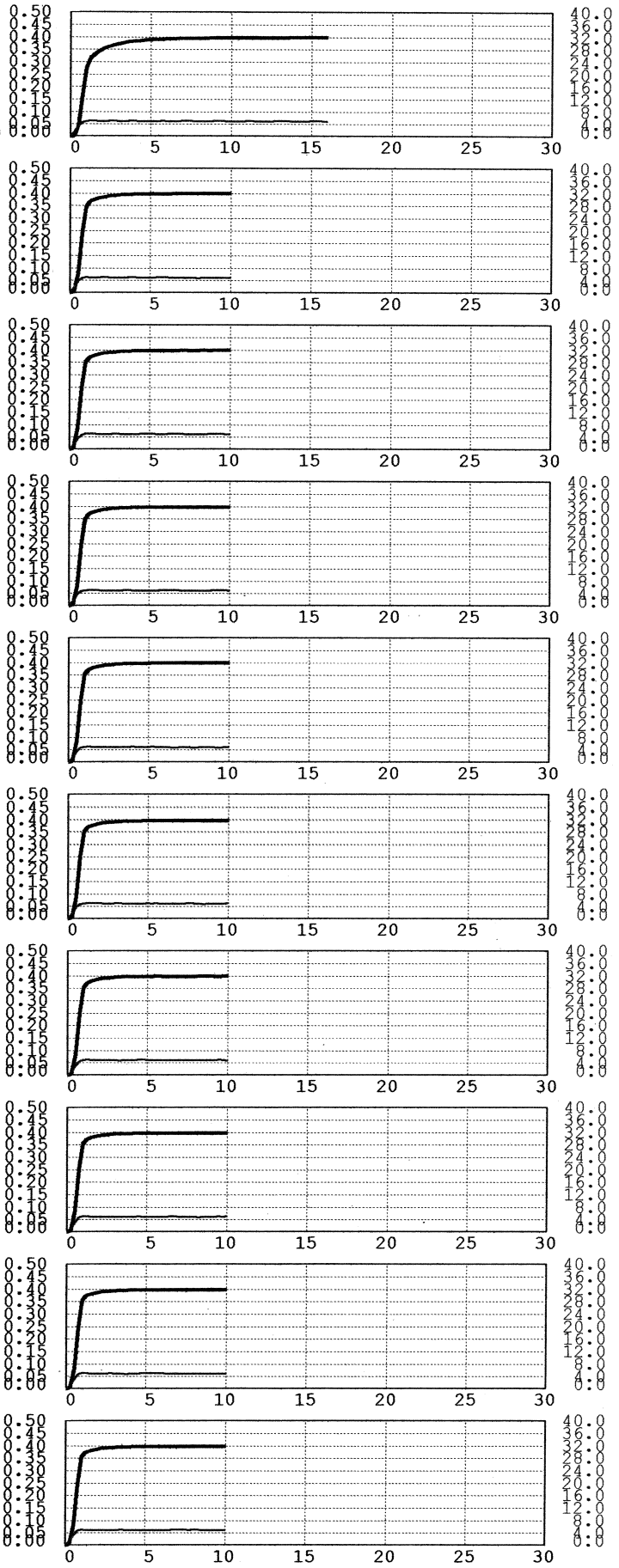
Date: 11/23/2009
Time: 10:39:43

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-14-400
SOLUTION CONCENTRATION: 0.387

BLANK TEST	0.000	10:40
CALIBRATION CHECK	PASSED	10:40
SIMULATOR VAPOR	0.396	10:41
SIMULATOR VAPOR	0.396	10:42
SIMULATOR VAPOR	0.395	10:43
SIMULATOR VAPOR	0.395	10:44
SIMULATOR VAPOR	0.396	10:45
SIMULATOR VAPOR	0.395	10:46
SIMULATOR VAPOR	0.396	10:47
SIMULATOR VAPOR	0.396	10:48
SIMULATOR VAPOR	0.396	10:49
SIMULATOR VAPOR	0.396	10:50
BLANK TEST	0.000	10:51

Average = 0.395
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

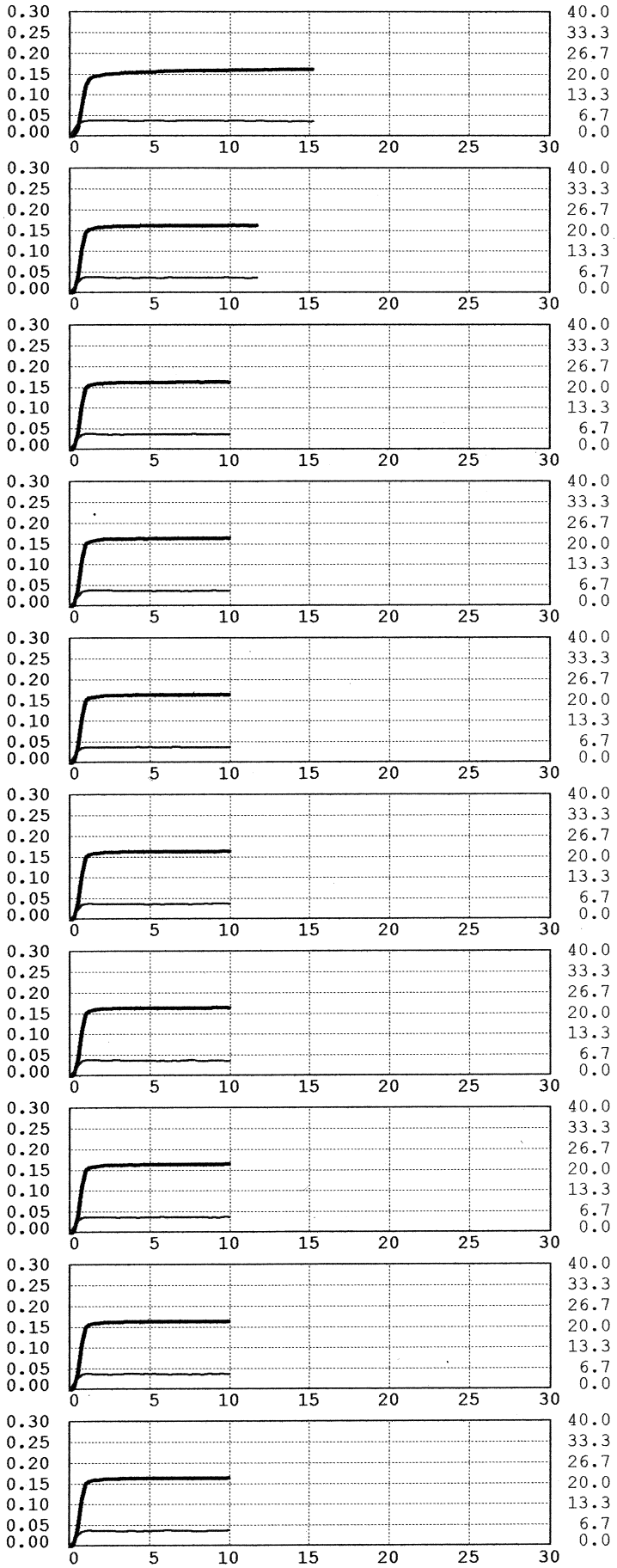
Date: 11/23/2009
Time: 10:53:33

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-38-160
SOLUTION CONCENTRATION: 0.159

BLANK TEST	0.000	10:54
CALIBRATION CHECK	PASSED	10:54
SIMULATOR VAPOR	0.161	10:54
SIMULATOR VAPOR	0.162	10:56
SIMULATOR VAPOR	0.162	10:57
SIMULATOR VAPOR	0.162	10:58
SIMULATOR VAPOR	0.163	10:59
SIMULATOR VAPOR	0.163	11:00
SIMULATOR VAPOR	0.163	11:01
SIMULATOR VAPOR	0.163	11:02
SIMULATOR VAPOR	0.163	11:02
SIMULATOR VAPOR	0.163	11:03
BLANK TEST	0.000	11:04

Average = 0.162
Std Dev = 0.0007



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

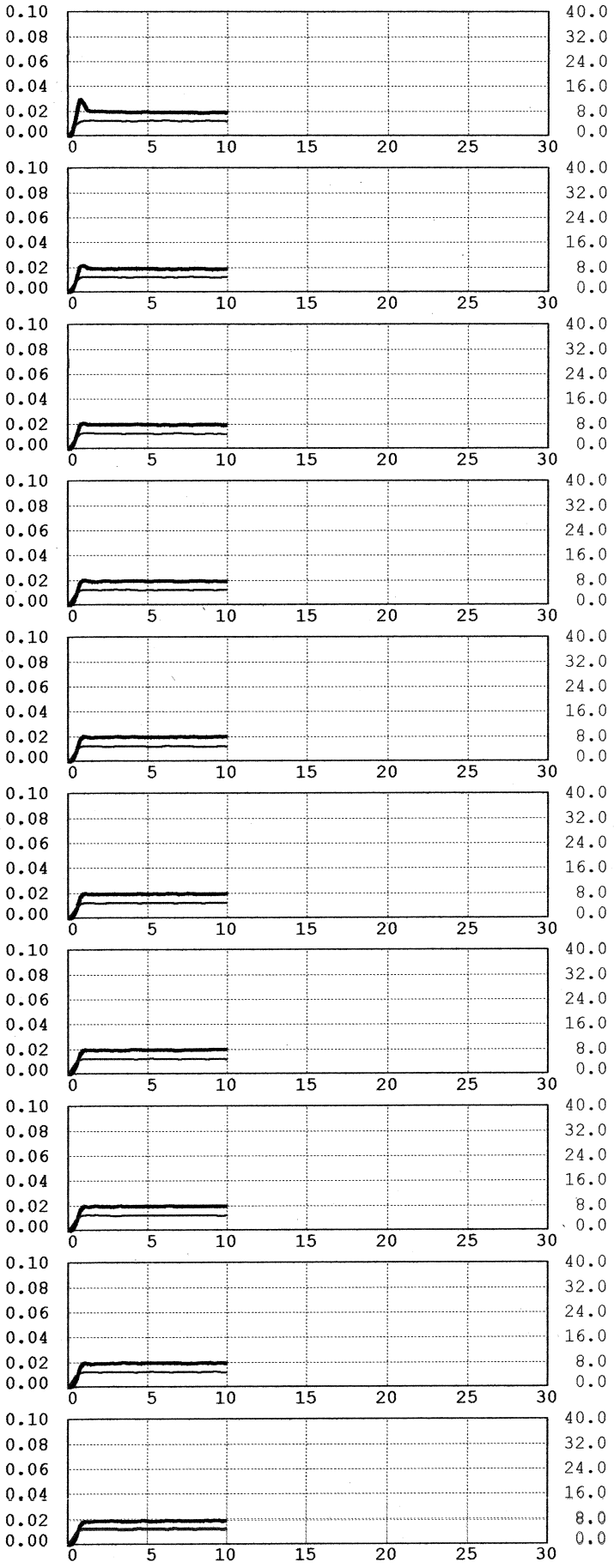
Date: 11/23/2009
Time: 11:16:42

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-13-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	11:17
CALIBRATION CHECK	PASSED	11:17
SIMULATOR VAPOR	0.019	11:18
SIMULATOR VAPOR	0.019	11:19
SIMULATOR VAPOR	0.020	11:20
SIMULATOR VAPOR	0.020	11:20
SIMULATOR VAPOR	0.020	11:21
SIMULATOR VAPOR	0.019	11:22
SIMULATOR VAPOR	0.020	11:23
SIMULATOR VAPOR	0.020	11:24
SIMULATOR VAPOR	0.020	11:25
SIMULATOR VAPOR	0.020	11:26
BLANK TEST	0.000	11:27

Average = 0.019
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

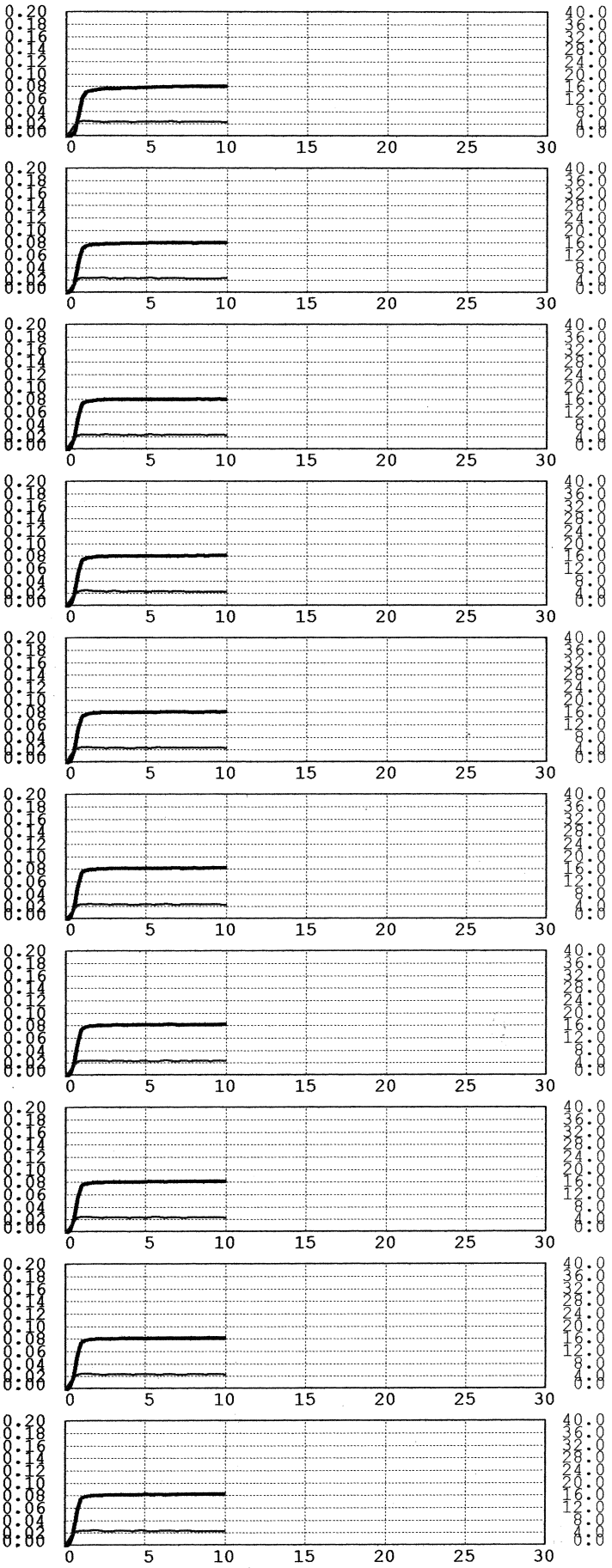
Date: 11/23/2009
Time: 11:35:13

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-43-080
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	11:36
CALIBRATION CHECK	PASSED	11:36
SIMULATOR VAPOR	0.080	11:36
SIMULATOR VAPOR	0.080	11:37
SIMULATOR VAPOR	0.081	11:38
SIMULATOR VAPOR	0.081	11:39
SIMULATOR VAPOR	0.081	11:40
SIMULATOR VAPOR	0.082	11:41
SIMULATOR VAPOR	0.081	11:42
SIMULATOR VAPOR	0.081	11:43
SIMULATOR VAPOR	0.081	11:44
SIMULATOR VAPOR	0.082	11:45
BLANK TEST	0.000	11:46

Average = 0.081
Std Dev = 0.0006



DIAGNOSTIC RESULT

DataMaster DMT: 104809
Location:
Calibration Date: 10/20/2009
Certification Date: 10/20/2009
Installation Date: 10/20/2009
Test Date: 11/30/2009
Time: 10:04

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.05
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.91°C
Breath Tube    = 48.08°C

SETTINGS
Lamp Voltage   = 1.70 V
Cooler Voltage = 1.66 V
Bias Voltage   = 80.4 V
Chopper Freq   = 536.6 Hz

PUMP INFO
Flow Rate = 5.555 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V) -0.0705   -0.0673
MIN(V) -0.0726   -0.0691

FILTER INFO
Filter 1 -0.068  Zero = true
Filter 2  0.562  Zero = true
Filter 3  0.386  Zero = true

CALIBRATION CHECK
Xq = 0.0768  0.68%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

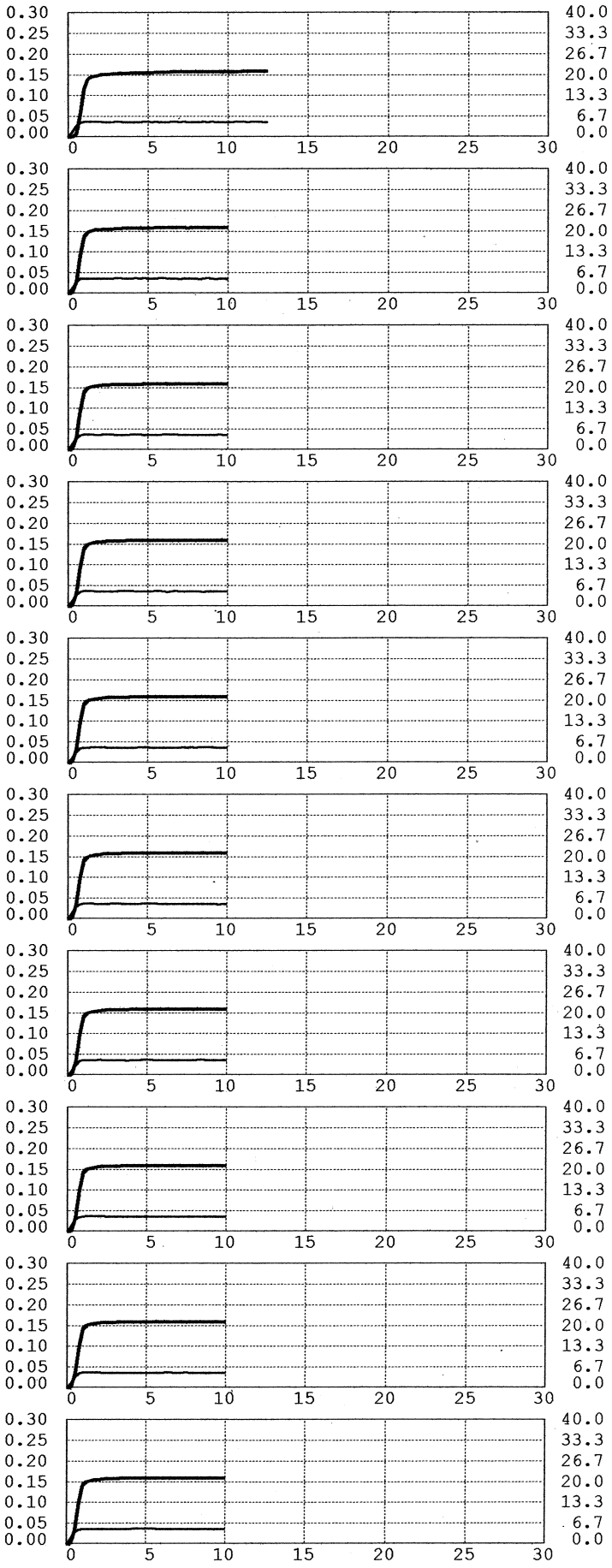
Date: 11/30/2009
Time: 10:54:07

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-38-160
SOLUTION CONCENTRATION: 0.159

BLANK TEST	0.000	10:55
CALIBRATION CHECK	PASSED	10:55
SIMULATOR VAPOR	0.158	10:55
SIMULATOR VAPOR	0.158	10:56
SIMULATOR VAPOR	0.158	10:57
SIMULATOR VAPOR	0.159	10:58
SIMULATOR VAPOR	0.158	10:59
SIMULATOR VAPOR	0.159	11:00
SIMULATOR VAPOR	0.159	11:01
SIMULATOR VAPOR	0.159	11:02
SIMULATOR VAPOR	0.159	11:03
SIMULATOR VAPOR	0.159	11:04
BLANK TEST	0.000	11:05

Average = 0.158
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

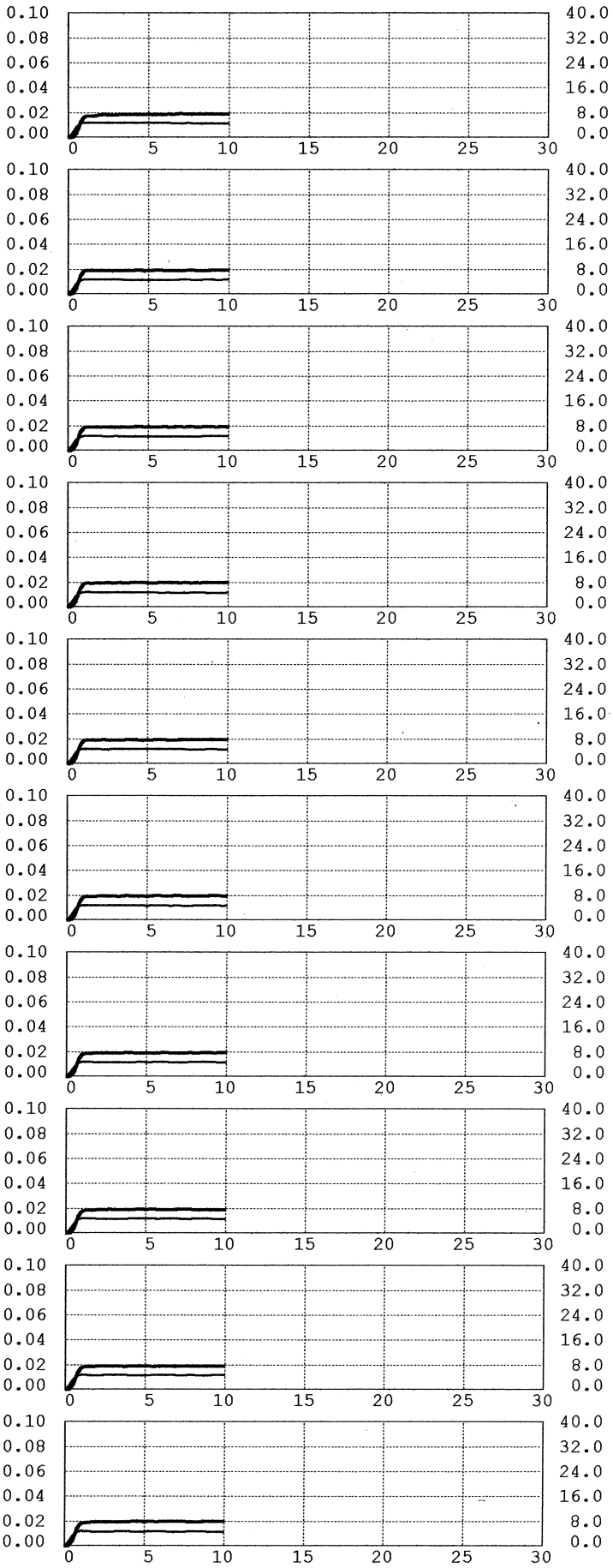
Date: 11/30/2009
Time: 11:13:00

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-13-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	11:13
CALIBRATION CHECK	PASSED	11:14
SIMULATOR VAPOR	0.020	11:14
SIMULATOR VAPOR	0.020	11:15
SIMULATOR VAPOR	0.019	11:16
SIMULATOR VAPOR	0.020	11:17
SIMULATOR VAPOR	0.020	11:18
SIMULATOR VAPOR	0.020	11:19
SIMULATOR VAPOR	0.020	11:20
SIMULATOR VAPOR	0.020	11:21
SIMULATOR VAPOR	0.019	11:22
SIMULATOR VAPOR	0.020	11:23
BLANK TEST	0.000	11:23

Average = 0.019
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

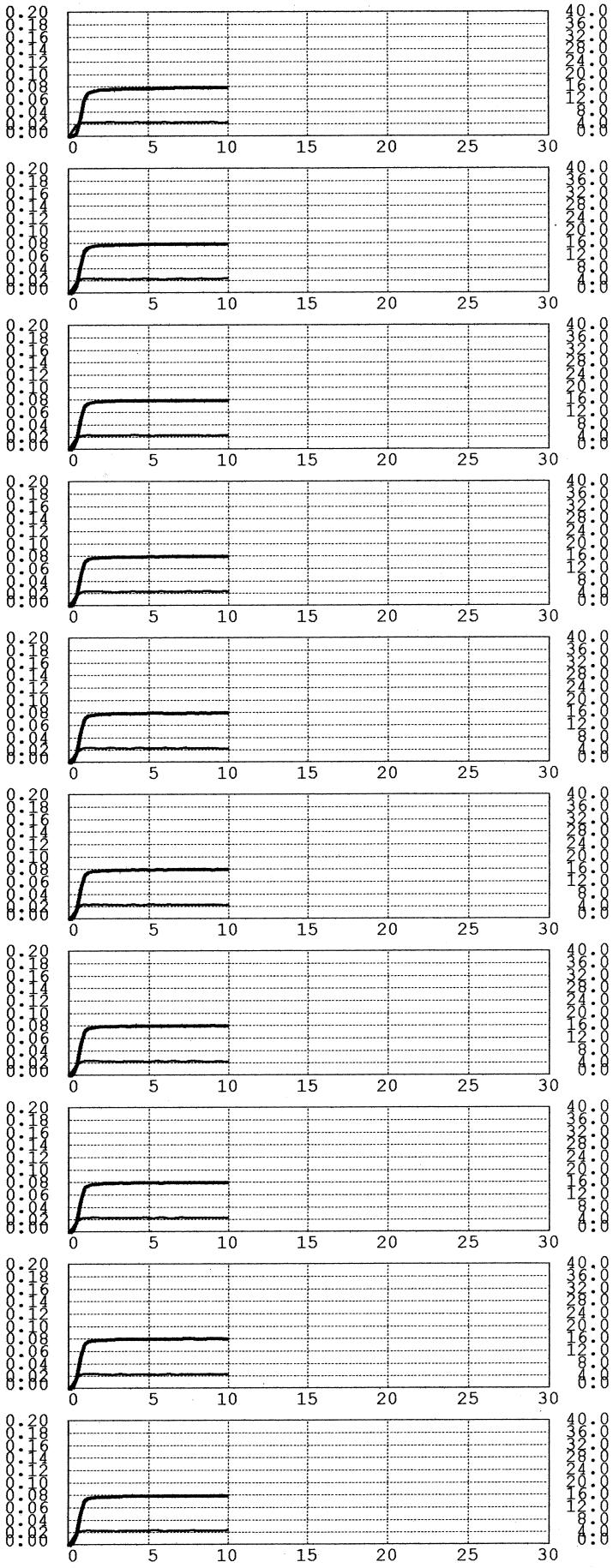
Date: 11/30/2009
Time: 11:46:46

SUPERVISOR NAME: A L B

SOLUTION LOT #: 09-43-080
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	11:47
CALIBRATION CHECK	PASSED	11:47
SIMULATOR VAPOR	0.079	11:48
SIMULATOR VAPOR	0.079	11:49
SIMULATOR VAPOR	0.079	11:50
SIMULATOR VAPOR	0.079	11:51
SIMULATOR VAPOR	0.079	11:52
SIMULATOR VAPOR	0.079	11:53
SIMULATOR VAPOR	0.080	11:54
SIMULATOR VAPOR	0.079	11:55
SIMULATOR VAPOR	0.080	11:56
SIMULATOR VAPOR	0.079	11:57
BLANK TEST	0.000	11:57

Average = 0.079
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

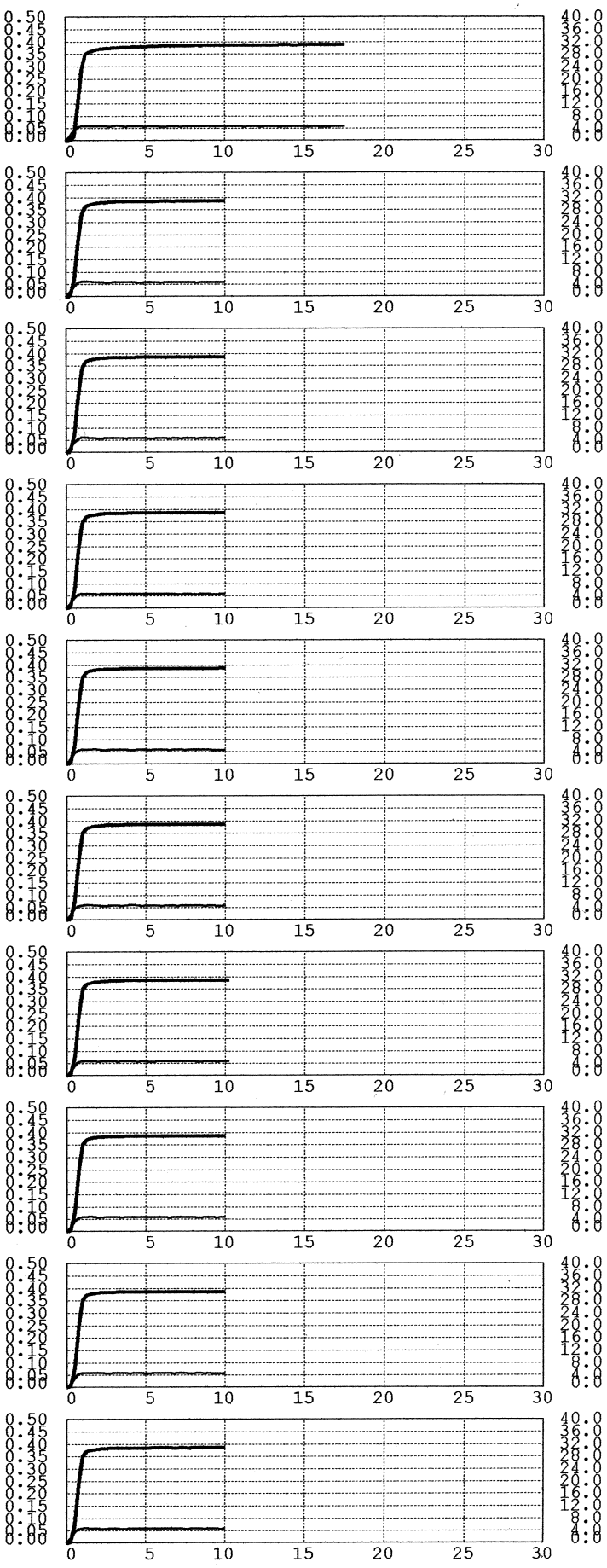
Date: 11/30/2009
Time: 12:00:00

SUPERVISOR NAME: A L B

SOLUTION LOT #: 10-14-400
SOLUTION CONCENTRATION: 0.387

BLANK TEST	0.000	12:00
CALIBRATION CHECK	PASSED	12:01
SIMULATOR VAPOR	0.386	12:01
SIMULATOR VAPOR	0.384	12:02
SIMULATOR VAPOR	0.385	12:03
SIMULATOR VAPOR	0.385	12:04
SIMULATOR VAPOR	0.385	12:05
SIMULATOR VAPOR	0.385	12:06
SIMULATOR VAPOR	0.385	12:07
SIMULATOR VAPOR	0.385	12:08
SIMULATOR VAPOR	0.385	12:09
SIMULATOR VAPOR	0.385	12:10
BLANK TEST	0.000	12:11

Average = 0.385
Std Dev = 0.0004



Section 5: Interference

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

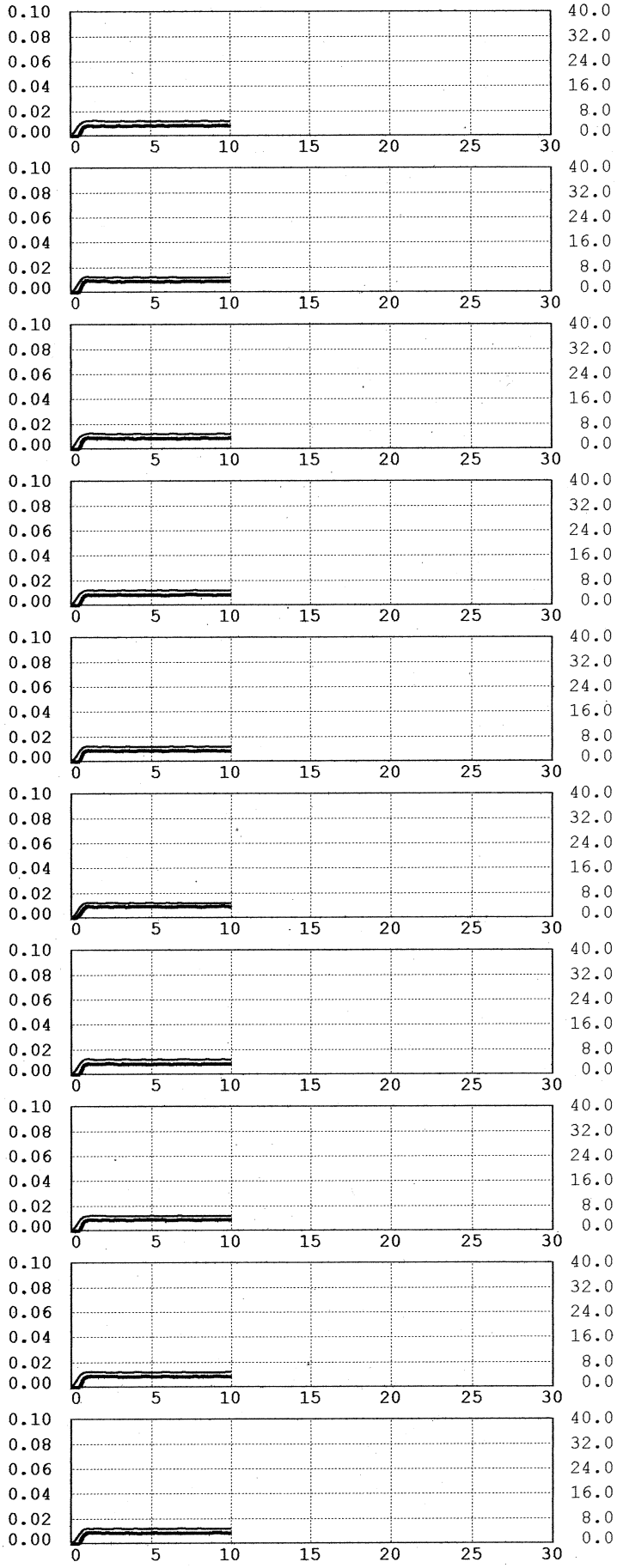
Date: 10/30/2009
Time: 06:02:48

SUPERVISOR NAME: ALB .02ACETONE IN H2O

SOLUTION LOT #: 09-23-02A
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	06:03
CALIBRATION CHECK	PASSED	06:03
SIMULATOR VAPOR	INTERFERENCE	06:04
SIMULATOR VAPOR	INTERFERENCE	06:05
SIMULATOR VAPOR	INTERFERENCE	06:06
SIMULATOR VAPOR	INTERFERENCE	06:07
SIMULATOR VAPOR	INTERFERENCE	06:08
SIMULATOR VAPOR	INTERFERENCE	06:09
SIMULATOR VAPOR	INTERFERENCE	06:10
SIMULATOR VAPOR	INTERFERENCE	06:10
SIMULATOR VAPOR	INTERFERENCE	06:11
SIMULATOR VAPOR	INTERFERENCE	06:12
BLANK TEST	0.000	06:13

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

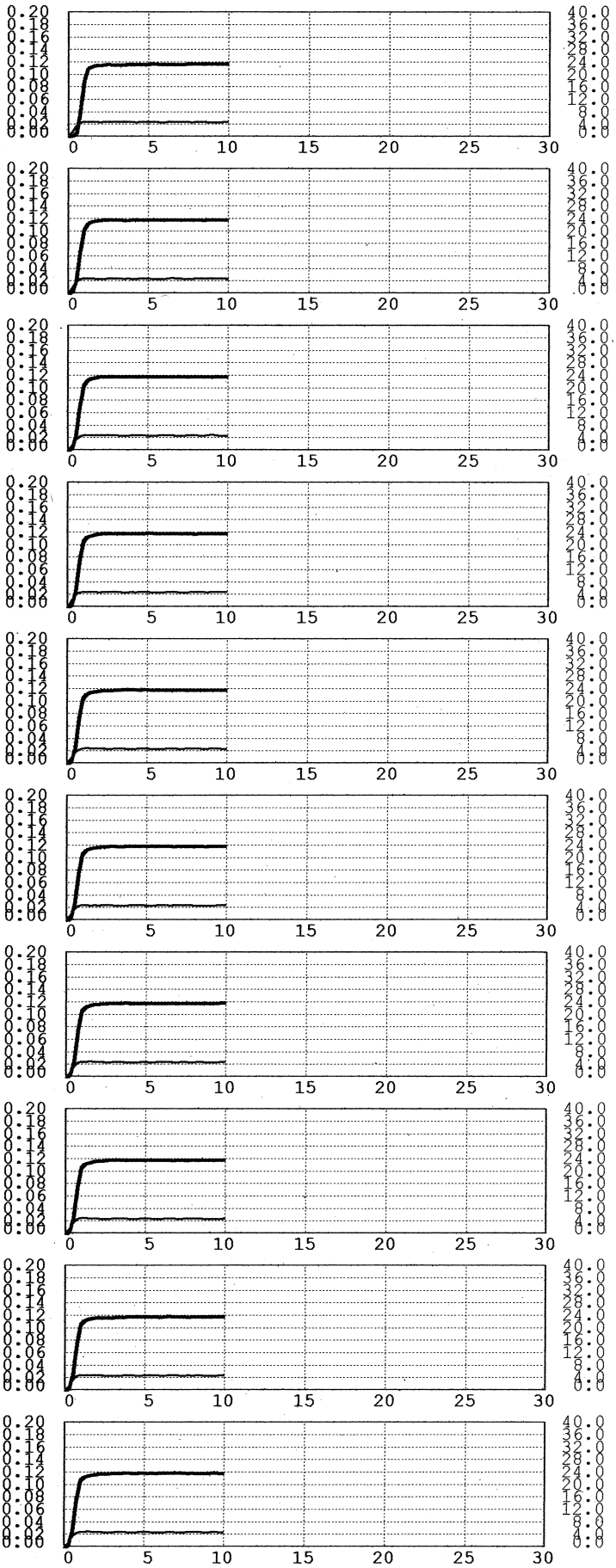
Date: 10/30/2009
Time: 05:48:41

SUPERVISOR NAME: ALB .04MEOH IN .08ETOH

SOLUTION LOT #: 10-10-08M4
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	05:49
CALIBRATION CHECK	PASSED	05:49
SIMULATOR VAPOR	INTERFERENCE	05:50
SIMULATOR VAPOR	INTERFERENCE	05:51
SIMULATOR VAPOR	INTERFERENCE	05:52
SIMULATOR VAPOR	INTERFERENCE	05:53
SIMULATOR VAPOR	INTERFERENCE	05:54
SIMULATOR VAPOR	INTERFERENCE	05:55
SIMULATOR VAPOR	INTERFERENCE	05:56
SIMULATOR VAPOR	INTERFERENCE	05:56
SIMULATOR VAPOR	INTERFERENCE	05:57
SIMULATOR VAPOR	INTERFERENCE	05:58
BLANK TEST	0.000	05:59

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

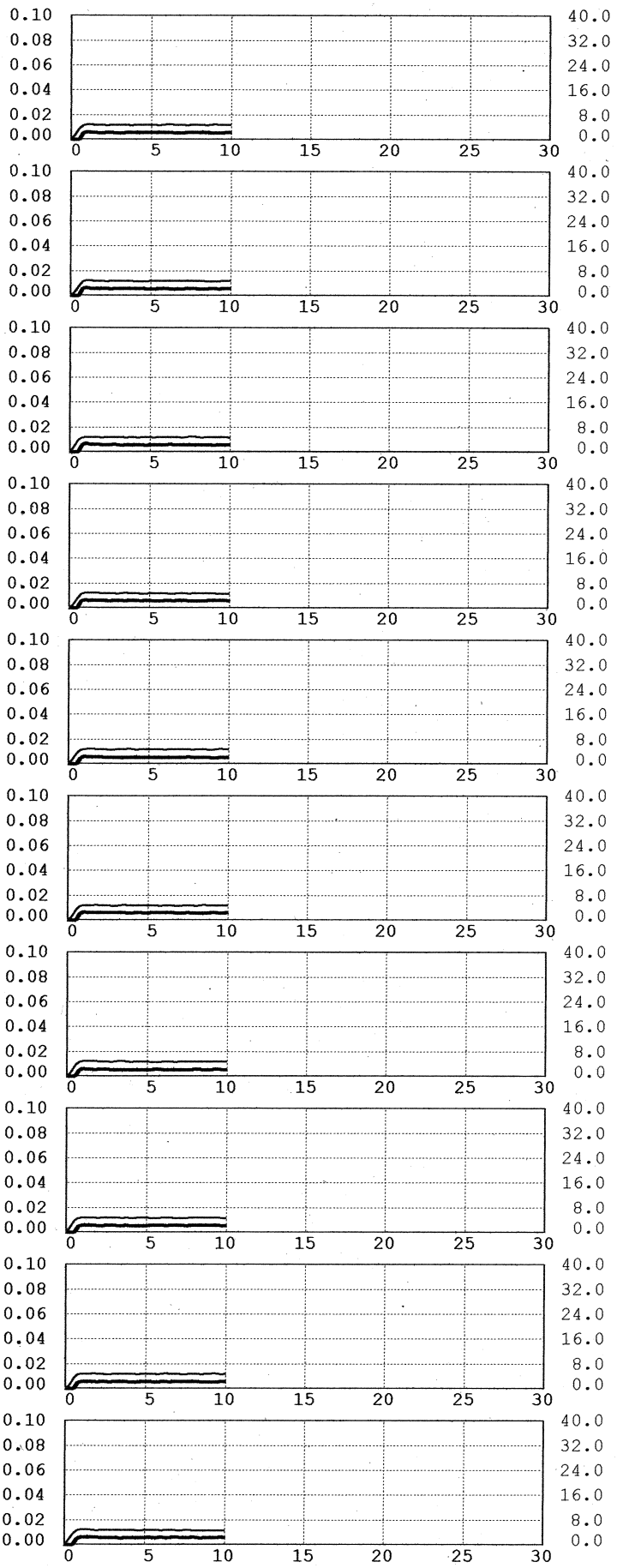
Date: 10/30/2009
Time: 05:30:31

SUPERVISOR NAME: ALB .01ACETONE IN H2O

SOLUTION LOT #: 10-08-01A
SOLUTION CONCENTRATION: 0.010

BLANK TEST	0.000	05:31
CALIBRATION CHECK	PASSED	05:31
SIMULATOR VAPOR	INTERFERENCE	05:31
SIMULATOR VAPOR	INTERFERENCE	05:32
SIMULATOR VAPOR	INTERFERENCE	05:33
SIMULATOR VAPOR	INTERFERENCE	05:34
SIMULATOR VAPOR	INTERFERENCE	05:35
SIMULATOR VAPOR	INTERFERENCE	05:36
SIMULATOR VAPOR	INTERFERENCE	05:37
SIMULATOR VAPOR	INTERFERENCE	05:38
SIMULATOR VAPOR	INTERFERENCE	05:39
SIMULATOR VAPOR	INTERFERENCE	05:40
BLANK TEST	0.000	05:41

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

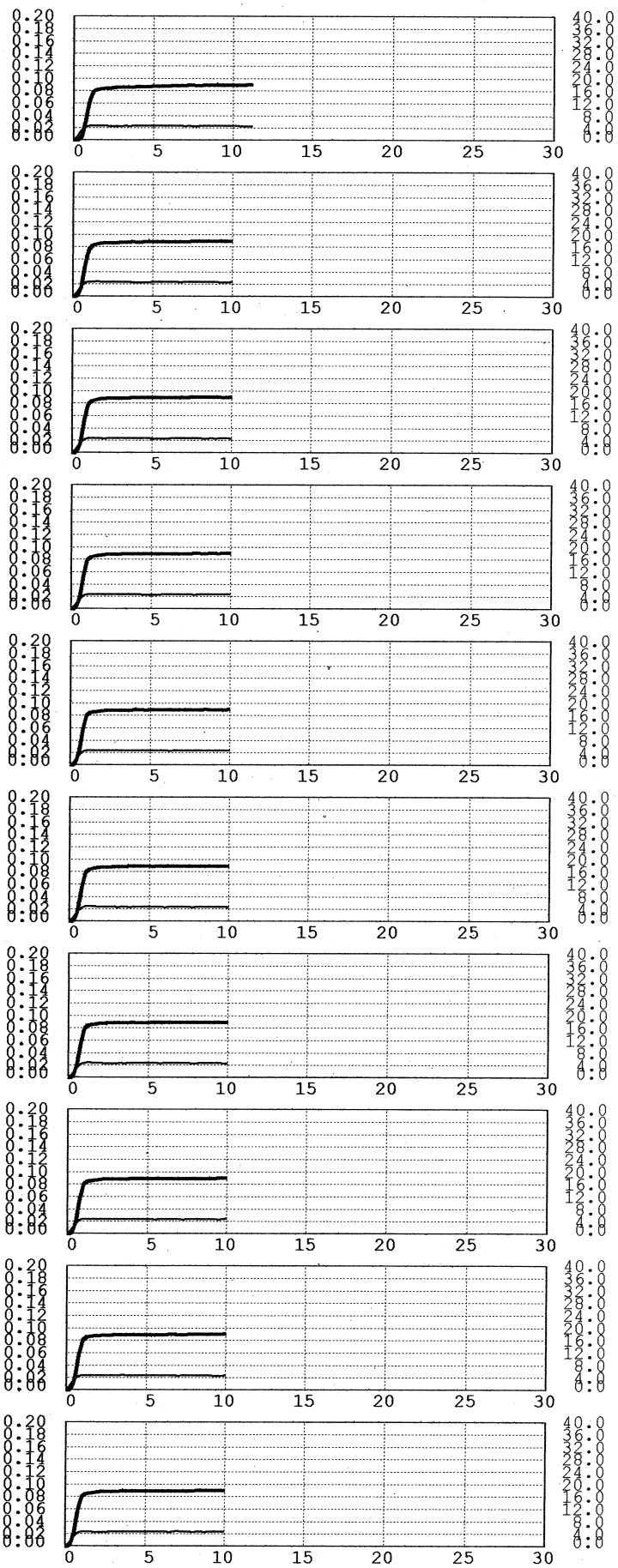
Date: 10/30/2009
Time: 05:14:25

SUPERVISOR NAME: ALB .02ACETONE IN .08ETOH

SOLUTION LOT #: 09-28-08A2
SOLUTION CONCENTRATION: 0.079

BLANK TEST	0.000	05:15
CALIBRATION CHECK	PASSED	05:15
SIMULATOR VAPOR	INTERFERENCE	05:15
SIMULATOR VAPOR	INTERFERENCE	05:16
SIMULATOR VAPOR	INTERFERENCE	05:17
SIMULATOR VAPOR	INTERFERENCE	05:18
SIMULATOR VAPOR	INTERFERENCE	05:19
SIMULATOR VAPOR	INTERFERENCE	05:20
SIMULATOR VAPOR	INTERFERENCE	05:21
SIMULATOR VAPOR	INTERFERENCE	05:22
SIMULATOR VAPOR	INTERFERENCE	05:23
SIMULATOR VAPOR	INTERFERENCE	05:24
BLANK TEST	0.000	05:25

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

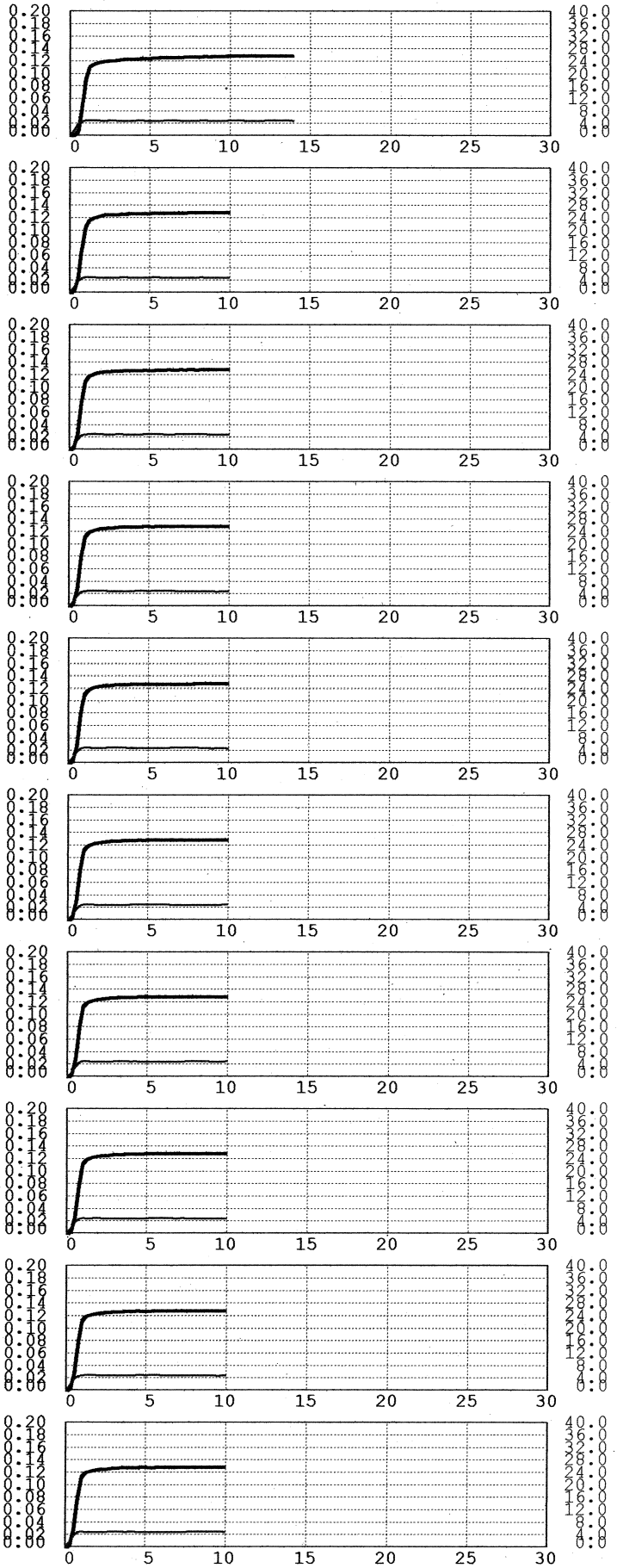
Date: 10/30/2009
Time: 04:59:56

SUPERVISOR NAME: ALB .04IPA IN .08ETOH

SOLUTION LOT #: 09-43-08I4
SOLUTION CONCENTRATION: 0.083

BLANK TEST	0.000	05:00
CALIBRATION CHECK	PASSED	05:00
SIMULATOR VAPOR	INTERFERENCE	05:01
SIMULATOR VAPOR	INTERFERENCE	05:02
SIMULATOR VAPOR	INTERFERENCE	05:03
SIMULATOR VAPOR	INTERFERENCE	05:04
SIMULATOR VAPOR	INTERFERENCE	05:05
SIMULATOR VAPOR	INTERFERENCE	05:06
SIMULATOR VAPOR	INTERFERENCE	05:07
SIMULATOR VAPOR	INTERFERENCE	05:08
SIMULATOR VAPOR	INTERFERENCE	05:09
SIMULATOR VAPOR	INTERFERENCE	05:10
BLANK TEST	0.000	05:11

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

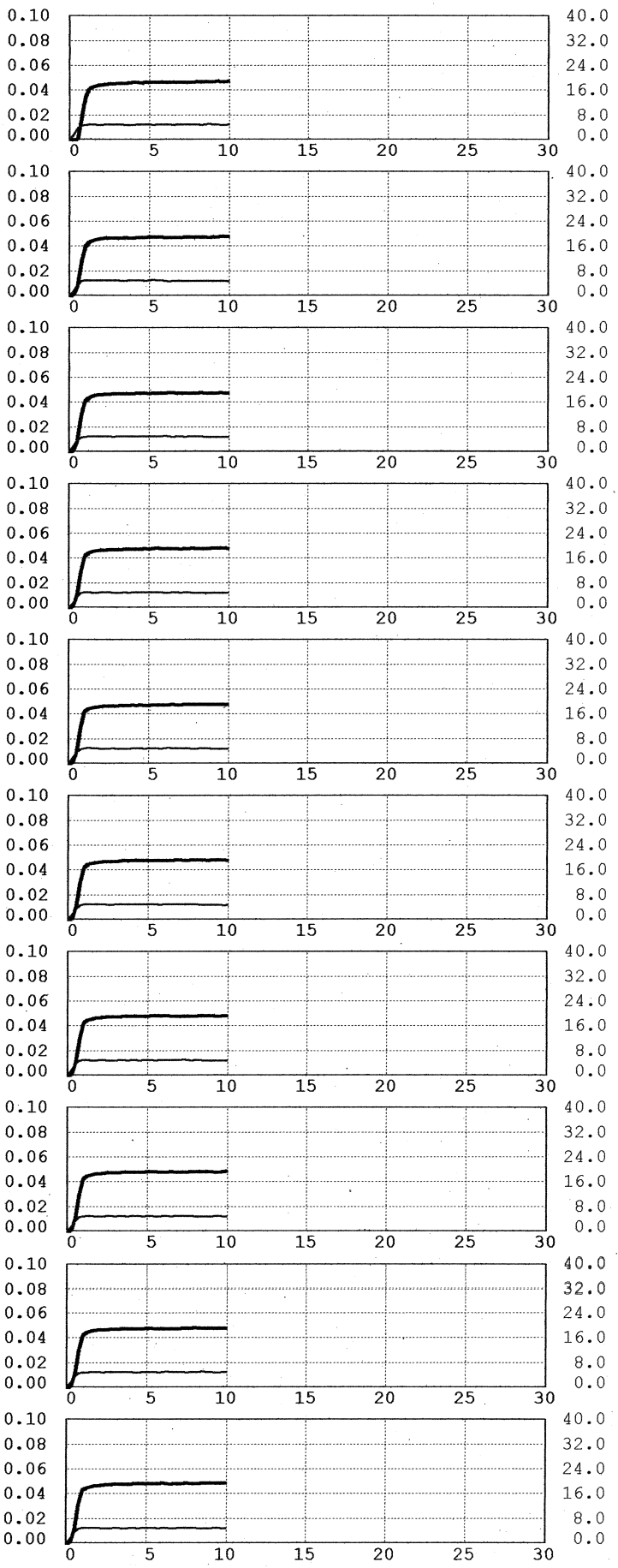
Date: 10/30/2009
Time: 04:36:23

SUPERVISOR NAME: ALB .01ACETONE IN .04ETOH

SOLUTION LOT #: 09-13-04A1
SOLUTION CONCENTRATION: 0.039

BLANK TEST	0.000	04:37
CALIBRATION CHECK	PASSED	04:37
SIMULATOR VAPOR	INTERFERENCE	04:37
SIMULATOR VAPOR	INTERFERENCE	04:38
SIMULATOR VAPOR	INTERFERENCE	04:39
SIMULATOR VAPOR	INTERFERENCE	04:40
SIMULATOR VAPOR	INTERFERENCE	04:41
SIMULATOR VAPOR	INTERFERENCE	04:42
SIMULATOR VAPOR	INTERFERENCE	04:43
SIMULATOR VAPOR	INTERFERENCE	04:44
SIMULATOR VAPOR	INTERFERENCE	04:45
SIMULATOR VAPOR	INTERFERENCE	04:46
BLANK TEST	0.000	04:47

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

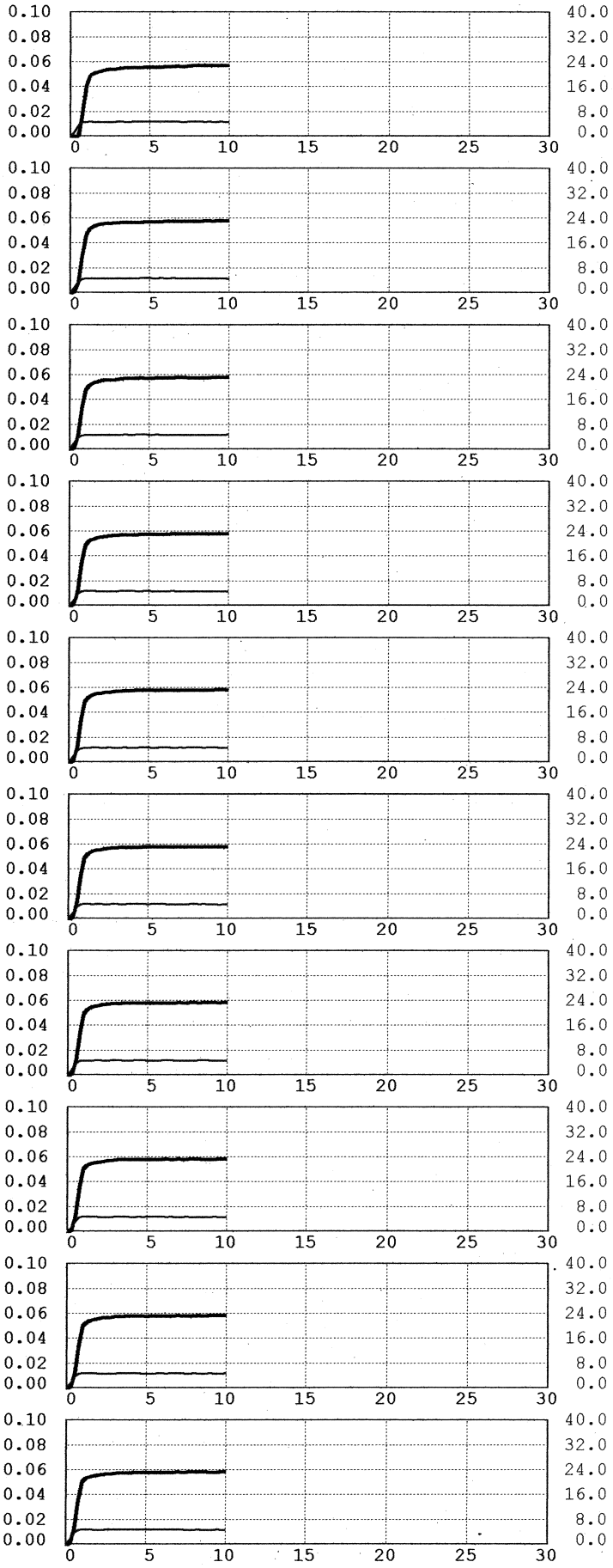
Date: 10/30/2009
Time: 04:22:06

SUPERVISOR NAME: ALB .02ACETONE IN .04ETOH

SOLUTION LOT #: 09-13-04A2
SOLUTION CONCENTRATION: 0.039

BLANK TEST	0.000	04:23
CALIBRATION CHECK	PASSED	04:23
SIMULATOR VAPOR	INTERFERENCE	04:23
SIMULATOR VAPOR	INTERFERENCE	04:24
SIMULATOR VAPOR	INTERFERENCE	04:25
SIMULATOR VAPOR	INTERFERENCE	04:26
SIMULATOR VAPOR	INTERFERENCE	04:27
SIMULATOR VAPOR	INTERFERENCE	04:28
SIMULATOR VAPOR	INTERFERENCE	04:29
SIMULATOR VAPOR	INTERFERENCE	04:30
SIMULATOR VAPOR	INTERFERENCE	04:31
SIMULATOR VAPOR	INTERFERENCE	04:32
BLANK TEST	0.000	04:33

Average out of range!



Section 6: Low Level Accuracy

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 104809

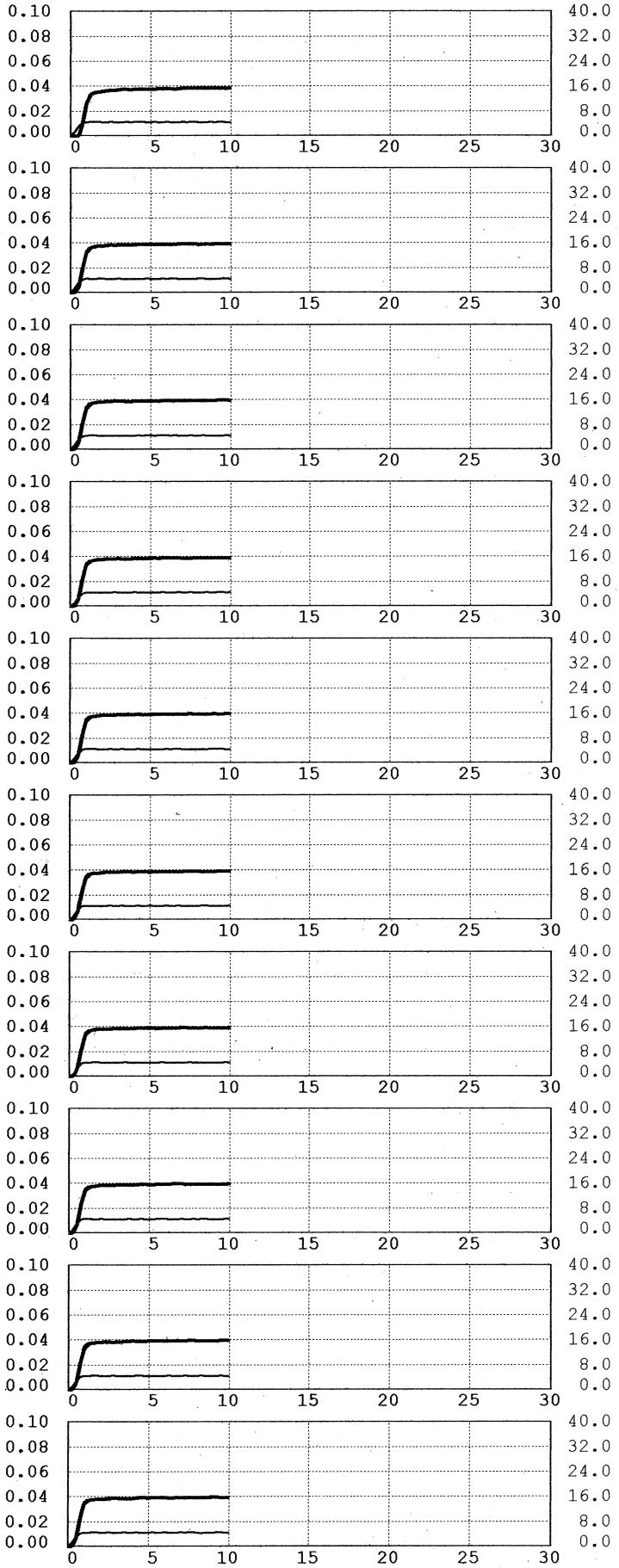
Date: 10/30/2009
Time: 06:17:44

SUPERVISOR NAME: ALB LOW LEVEL TEST

SOLUTION LOT #: 09-27-040
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	06:18
CALIBRATION CHECK	PASSED	06:18
SIMULATOR VAPOR	0.039	06:19
SIMULATOR VAPOR	0.039	06:20
SIMULATOR VAPOR	0.040	06:21
SIMULATOR VAPOR	0.039	06:22
SIMULATOR VAPOR	0.040	06:23
SIMULATOR VAPOR	0.039	06:24
SIMULATOR VAPOR	0.040	06:24
SIMULATOR VAPOR	0.040	06:25
SIMULATOR VAPOR	0.040	06:26
SIMULATOR VAPOR	0.040	06:27
BLANK TEST	0.000	06:28

Average = 0.039
Std Dev = 0.0005



Section 7: Breath Volume

Operator	Date	Room Temp	Humidity
DMR	11/30/2009	74.7	27%

Target Volume	Set Flow (lpm)	Flow On (lpm)	Time (sec)	1	2	3	4	5	6	7	8	9	10	Average	% s.d.
1.5 L	8.2		11	2.03	1.98	1.93	1.96	2.01	2.06	1.91	2.05	1.99	1.98	1.991	4.899
	15		6	1.99	1.89	1.97	1.92	1.9	1.93	2.15	2.05	1.92	2.04	1.969	8.276
	22.5		4	1.94	1.92	1.84	2.08	2.22	2.03	2.29	2.16	1.89	2.28	2.041	16.64
2.5 L	10		15	3.39	3.36	3.19	3.23	3.3	3.35	3.24	3.29	3.21	3.31	3.284	6.783
	15		10	3.14	3.36	3.3	3.36	3.29	3.38	3.33	3.35	3.34	3.3	3.317	6.835
	25		6	3.51	3.39	3.33	3.06	3.11	3.56	3.39	3.39	3.24	3.12	3.331	17.18

Section 8: Software Testing

This Instrument not tested for this specification

Section 9: Error Reports

Section 10: Live Subject Tests

This Instrument not tested for this specification

Section 11: Communication Notes

10/5/0

104409-
Upon initial inspection, discovered the motor was not adequately seated to the filter wheel. SH adjusted the tension for better pressure between the filter wheel and the drive motor.

10/9/09
104109 and 104409 failed low level interference testing. 1044 failed to recognize .04 IPA in water as an interferent 10:10 on an A+P test. 1044 quantified .04 IPA as ~.07 EtOH 104109 also failed to flag IPA as an interferent successfully. 1041 only flagged the .04 IPA as an interferent 60% of the time on an A+P test. (N NPAS was contacted regarding problems.

10/13/09
104109 and 104409 RTV due to failing interference testing

103509, 103709, 104909 Passed Power-up inspection/testing 10/9/09

104509, 104309, 104609, 104809, 103809
Received and inspected, all units passed mechanical inspection. 10/15/09

↑ All units passed cal/cert.

X, .033 f_2(-.044)

10/19/09
Determined interference problem w/ RTV units due to solution. 0.04 interference solution was spiked w/ N-propanol instead of 2-propanol NPAS to determine reaction to n-propanol interference testing. NPAS to return 2 RTV units. VDHL to retest all units with correct 0.04 IPA solution.