DATAMASTER DMT 103909

VERMONT DEPARTMENT OF HEALTH LABORATORY

PERFORMANCE TESTING RESULTS

January 2010

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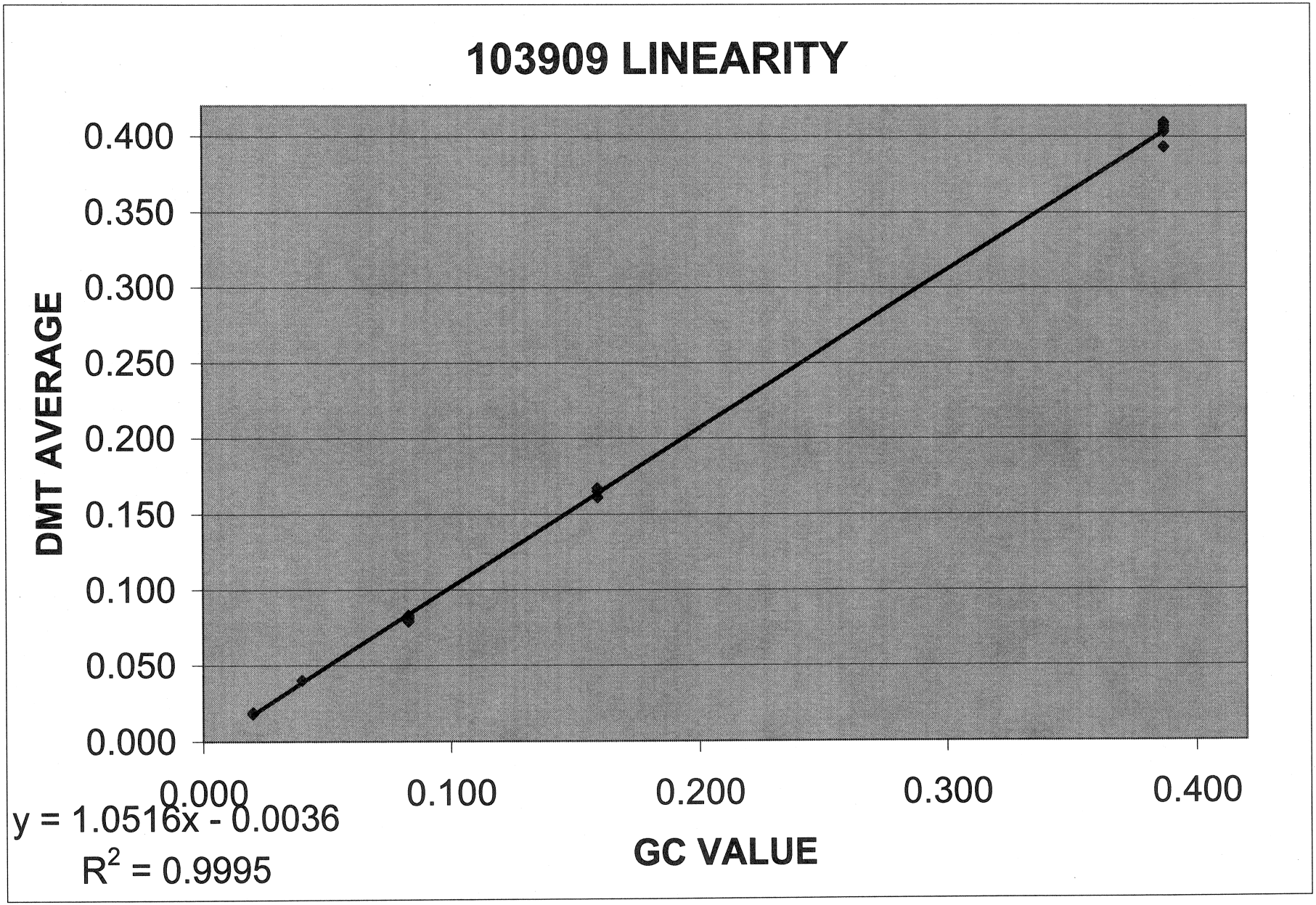
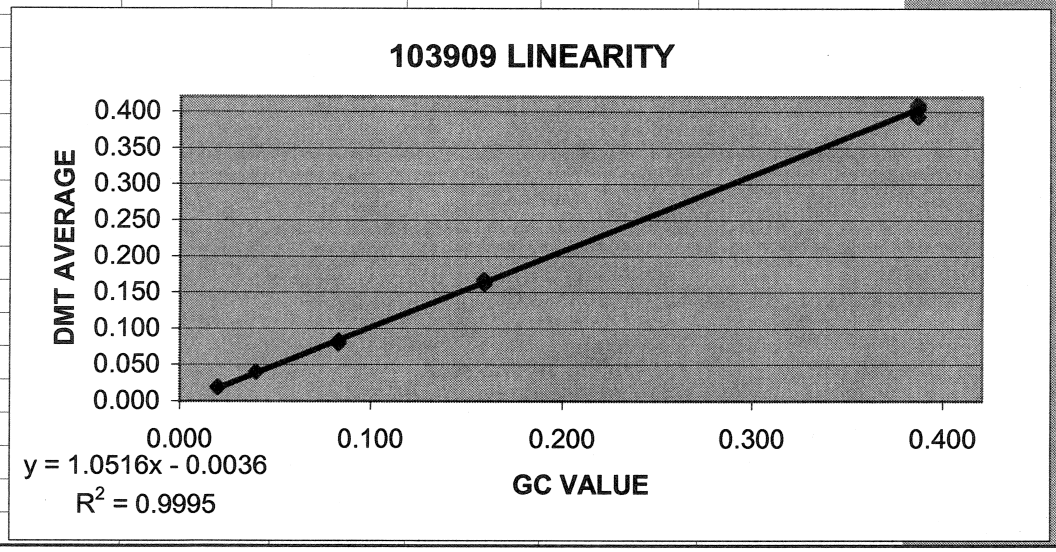
Section 1: Results


103909 LINEARITY
DMT AVERAGE
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
0.000
0.100
0.200
0.300
0.400
GC VALUE
y = 1.0516x - 0.0036
R2 = 0.9995

Operator	Date	Lot #	GC Value	DMT Result	Std Dev	% Recovery	
ALB	11/2/2009	09-43-080	0.083	0.081	0.0003	97.6	Outside 5%
		09-38-160	0.159	0.165	0.0005	103.8	Outside 10%
		10-14-400	0.387	0.407	0.0006	105.2	
		10-13-020	0.020	0.018	0.0005	90.0	
ALB	11/20/2009	10-13-020	0.020	0.019	0.0005	95.0	
		09-43-080	0.083	0.083	0.0003	100.0	
		10-14-400	0.387	0.409	0.0013	105.7	
		09-38-160	0.159	0.167	0.0003	105.0	
ALB	11/23/2009	09-38-160	0.159	0.165	0.0004	103.8	
		10-14-400	0.387	0.405	0.0006	104.7	
		09-43-080	0.083	0.082	0.0004	98.8	
		10-13-020	0.020	0.018	0.0003	90.0	
ALB	11/23/2009	10-13-020	0.020	0.019	0.0000	95.0	
		09-43-080	0.083	0.081	0.0004	97.6	
		10-14-400	0.387	0.403	0.0006	104.1	
		09-38-160	0.159	0.165	0.0004	103.8	
ALB	11/30/2009	10-14-400	0.387	0.393	0.0004	101.6	
		09-38-160	0.159	0.161	0.0004	101.3	
		10-13-020	0.020	0.019	0.0000	95.0	
		09-43-080	0.083	0.079	0.0003	95.2	
ALB	10/30/2009	09-27-040	0.040	0.040	0.0004	100.0	LOW LEVEL
				Average	0.0004	99.6	
				Std Dev	0.0003	5.02	
				Range	0.0000 - 0.0013	90.0 - 105.7	



Operator	Date	Concentration	Lot Number	DMT Result	Apparent EtOH	N = 10
ALB	10/28/09	0.01 Acetone in water	10-08-01A	INTERFERENCE	< .01	
ALB	10/28/09	0.02 Acetone in water	09-23-02A	INTERFERENCE	0.01	
ALB	10/27/09	.01 Acetone in .08 EtOH	10-05-08A1	INTERFERENCE	0.08	
ALB	10/28/09	.01 Acetone in .04 EtOH	09-13-04A1	INTERFERENCE	0.05	
ALB	10/28/09	.02Acetone in .08 EtOH	09-28-08A2	INTERFERENCE	0.09	
ALB	10/28/09	.02 Acetone in .04 EtOH	09-13-04A2	INTERFERENCE	0.06	
ALB	10/27/09	.04 MeOH in water	10-07-04M	INTERFERENCE	0.03	
ALB	10/28/09	.04 MeOH in .08 EtOH	10-10-08M4	INTERFERENCE	0.12	
ALB	10/27/09	.04 IPA in water	10-16-04I	INTERFERENCE	0.04	
ALB	10/28/09	.04 IPA in .08 EtOH	09-43-08I4	INTERFERENCE	0.13	
ALB	10/19/09	.04 n-propanol in h20	10/6/2004	INTERFERENCE	0.07	

Section 2: NPAS Tests

National Patent Analytical Systems, Inc.

Certificate of Calibration

103909

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: 103909
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: 103909
Calibration Date: 09/22/2009
Calibrated by: T T T
Lot: 87654

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.100000
CAL =  0.974905    0.800 <= CAL < 1.200
b1  =  0.000000    0.000 <=  b1 < 0.004
b2  =  0.003934    0.001 <=  b2 < 0.012
b3  =  0.000000    0.000 <=  b3 < 0.004
Xq  =  0.080415    0.050 <=  Xq < 0.200
a21 =  1.209778    1.050 <= a21 < 1.300
a31 =  0.505852    0.300 <= a31 < 0.800
```

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

CERTIFICATION REPORT

DataMaster DMT: 103909
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 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.91°C
Breath Tube = 45.37°C

SETTINGS
Lamp Voltage = 1.69 V
Cooler Voltage = 1.69 V
Bias Voltage = 80.7 V
Chopper Freq = 530.1 Hz

PUMP INFO
Flow Rate = 4.625 L/M

DETECTOR INFO
PUMP ON OFF
MAX(V) 0.1376 0.1398
MIN(V) 0.1354 0.1380

FILTER INFO
Filter 1 0.139 Zero = true
Filter 2 0.416 Zero = true
Filter 3 -0.119 Zero = true

CALIBRATION CHECK
Xq = 0.0794 1.19%

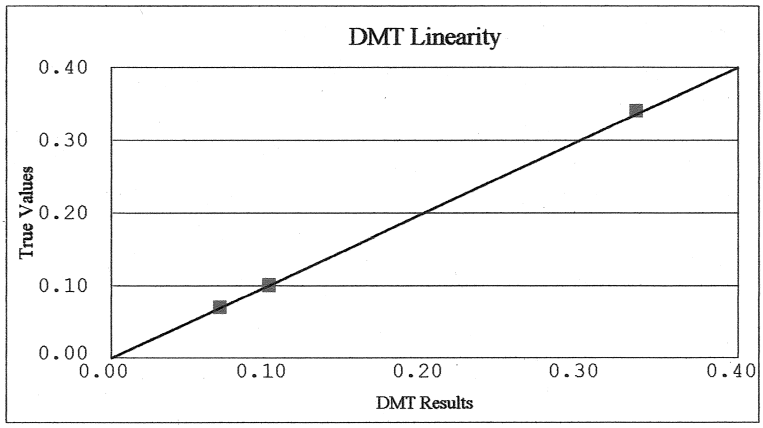
Options

Printer: yes
Number of Copies: 1
Number of Supervisor Tests: 5
Tolerance Check: yes
Data Collection: yes
Units: g/210L
Simulator Check: yes
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: 3
Calibrate with Wet Bath: yes
Calibration Nominal: 0.100

Linearity Check Results

True Value	Reported Average	Std Dev
0.070 g/210L	0.069 g/210L	0.001
Lot # U76545678		
0.100 g/210L	0.100 g/210L	0.001
Lot # 987648		
0.101 g/210L	0.100 g/210L	0.001
Lot # IUYTRE4567		
0.340 g/210L	0.335 g/210L	0.001
Lot # 6543		

$R^2 = 1.0000$



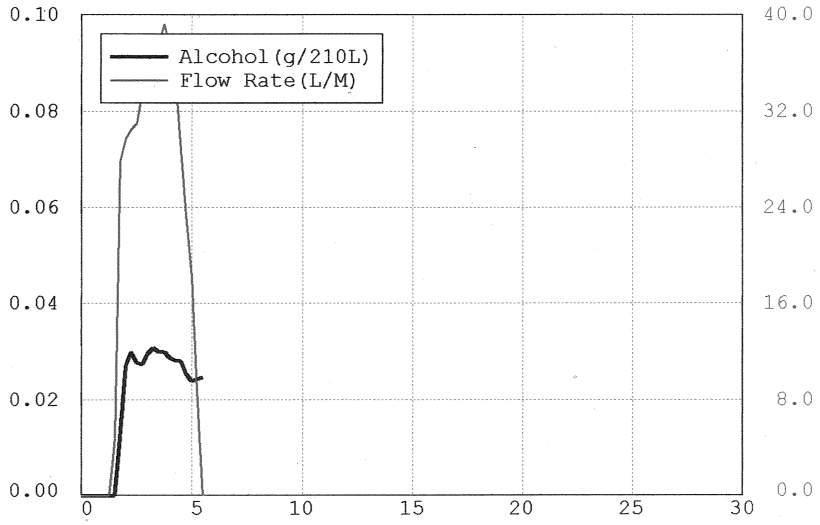
Acetone Interference Test

Lot # 76545678

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

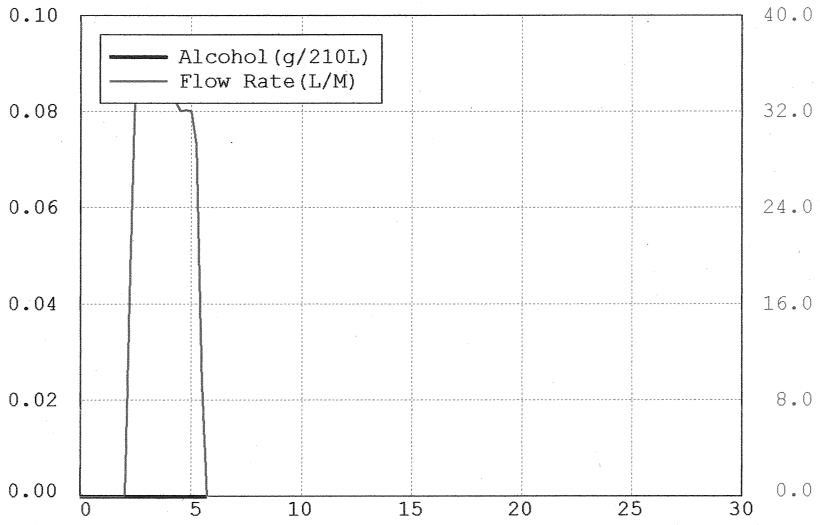


RF Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

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

Reviewed by _____ **Date** _____

INSTALLATION REPORT

DataMaster DMT: 103909
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 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 49.09°C
Breath Tube = 46.08°C

SETTINGS
Lamp Voltage = 1.69 V
Cooler Voltage = 1.69 V
Bias Voltage = 80.6 V
Chopper Freq = 529.4 Hz

PUMP INFO
Flow Rate = 4.685 L/M

DETECTOR INFO
PUMP ON OFF
MAX(V) 0.1614 0.1622
MIN(V) 0.1589 0.1604

FILTER INFO
Filter 1 0.161 Zero = true
Filter 2 0.439 Zero = true
Filter 3 -0.086 Zero = true

CALIBRATION CHECK
Xq = 0.0800 0.43%

INSTALLATION PASSED

Accuracy and Precision Check

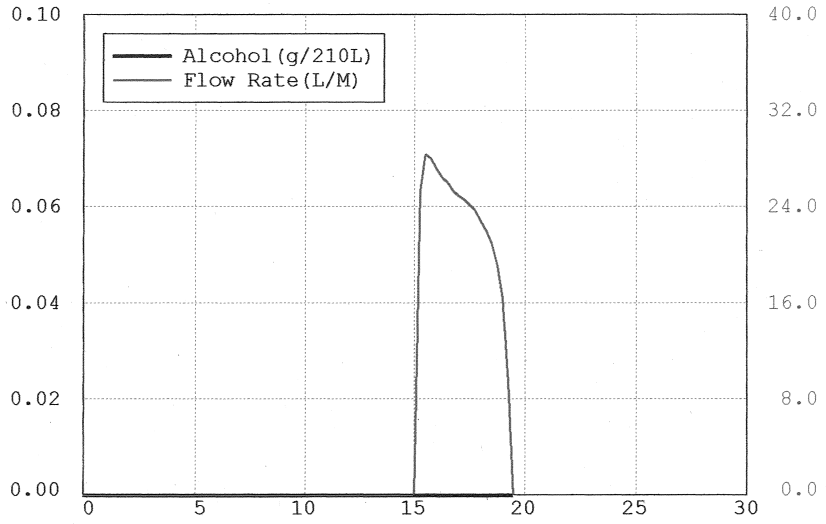
Concentration = 0.070 g/210L
Lot # = 9876
Average = 0.070 g/210L
Std Dev = 0.001

RFI Interference Test

RFI detected

Sample Acceptance Test

Passed



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

Reviewed by _____ **Date** _____

Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 103909
ADDISON COUNTY SO
Certification Date: 09/22/2009
Installation Date: 09/22/2009

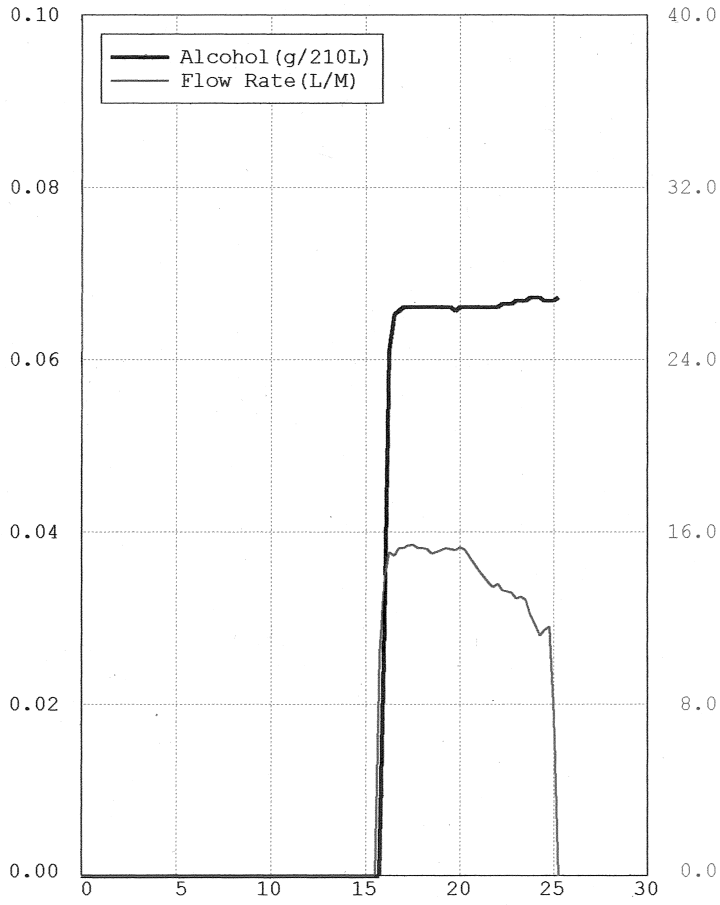
Date: 09/22/2009
Time: 11:56:16

Subject Name: T T T
Date of Birth: 09/09/1979 Age: 30
Gender: F
License #:

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

BLANK TEST	0.000	11:57
CALIBRATION CHECK	PASSED	11:57
Xq = 0.0801 (0.32%)		
SIMULATOR VAPOR	0.069	11:57
X[1] = 0.0694 (-0.0004) (0.0011)		
BLANK TEST	0.000	11:58
SUBJECT SAMPLE (Vol=2.1L)	0.067	11:59
X[1] = 0.0677 (-0.0019) (0.0014)		

All alcohol values reported in g/210L
Sim. Vapor Concentration 0.070
Sim. Vapor Range 0.065 - 0.075



Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 103909
ADDISON COUNTY SO
Certification Date: 09/22/2009
Installation Date: 09/22/2009

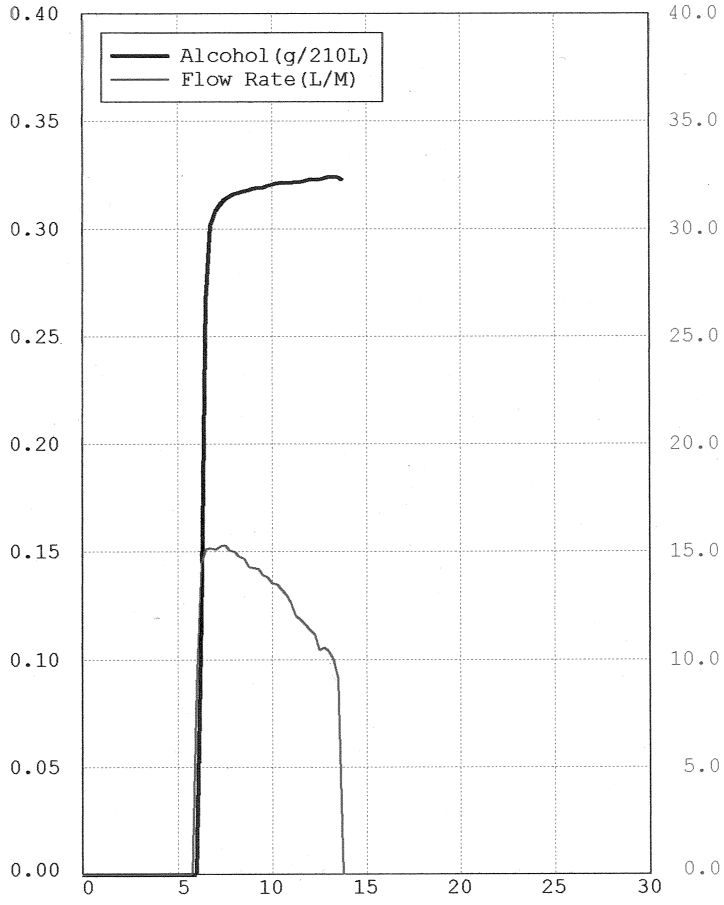
Date: 09/22/2009
Time: 12:00:32

Subject Name: T T T
Date of Birth: 11/11/1909 Age: 99
Gender: M
License #:

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

BLANK TEST	0.000	12:01
CALIBRATION CHECK	PASSED	12:01
Xq = 0.0803 (0.11%)		
SIMULATOR VAPOR	0.070	12:01
X[1] = 0.0702 (0.0001) (0.0016)		
BLANK TEST	0.000	12:02
SUBJECT SAMPLE (Vol=1.6L)	0.324	12:03
X[1] = 0.3243 (0.0007) (0.0028)		

All alcohol values reported in g/210L
Sim. Vapor Concentration 0.070
Sim. Vapor Range 0.065 - 0.075



DIAGNOSTIC RESULT

DataMaster DMT: 103909
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: 08:36

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 49.15°C
Breath Tube    = 47.39°C

SETTINGS
Lamp Voltage   = 1.69 V
Cooler Voltage = 1.69 V
Bias Voltage   = 80.6 V
Chopper Freq   = 528.2 Hz

PUMP INFO
Flow Rate = 4.648 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.5067   0.5006
MIN(V)   0.4980   0.4988

FILTER INFO
Filter 1  0.499  Zero = true
Filter 2  0.757  Zero = true
Filter 3  0.268  Zero = true

CALIBRATION CHECK
Xq = 0.0813  1.19%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

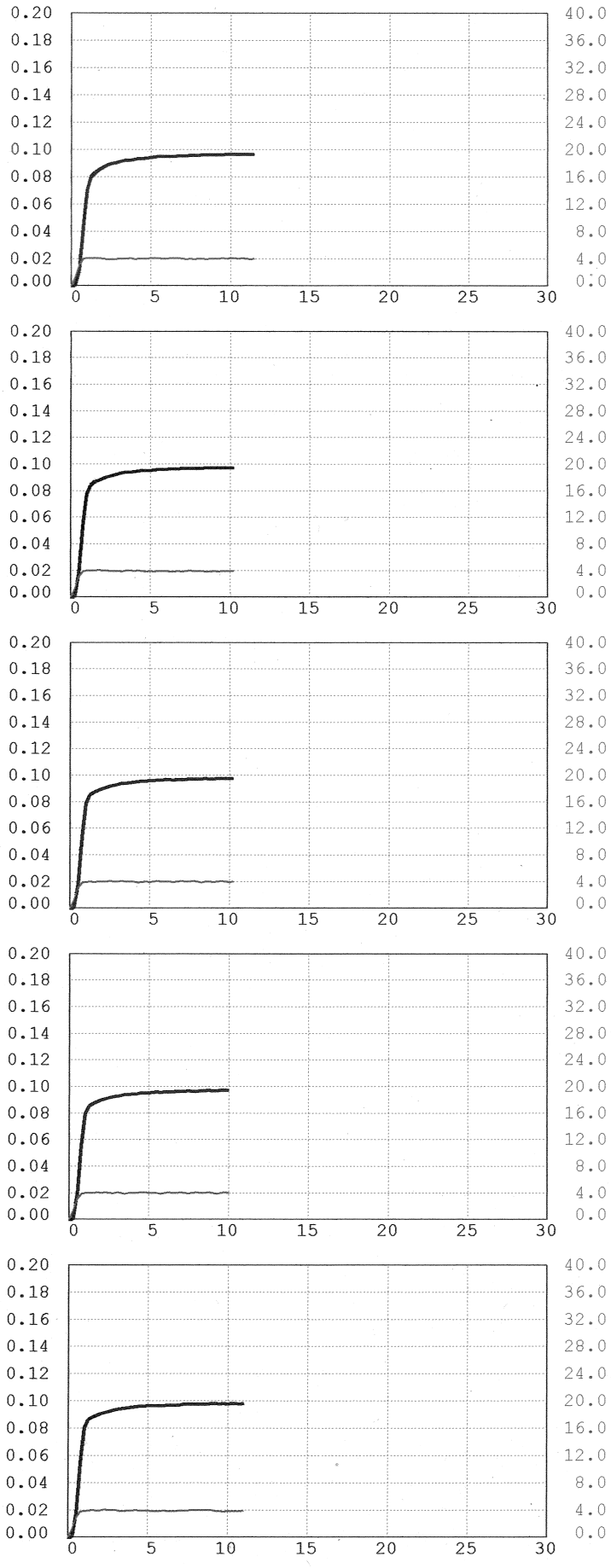
Date: 09/23/2009
Time: 07:55:44

SUPERVISOR NAME: HI0 H YOIP

SOLUTION LOT #: U89EFG
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	07:56
CALIBRATION CHECK	PASSED	07:56
Xq = 0.0810 (0.76%)		
SIMULATOR VAPOR	0.097	07:57
X[1] = 0.0975 (0.0009) (0.0010)		
SIMULATOR VAPOR	0.098	07:58
X[1] = 0.0981 (0.0006) (0.0000)		
SIMULATOR VAPOR	0.098	07:59
X[1] = 0.0983 (0.0005) (0.0000)		
SIMULATOR VAPOR	0.097	08:00
X[1] = 0.0977 (-0.0001) (-0.0006)		
SIMULATOR VAPOR	0.099	08:01
X[1] = 0.0991 (0.0001) (-0.0004)		
BLANK TEST	0.000	08:01

Average = 0.097
Std Dev = 0.0008



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

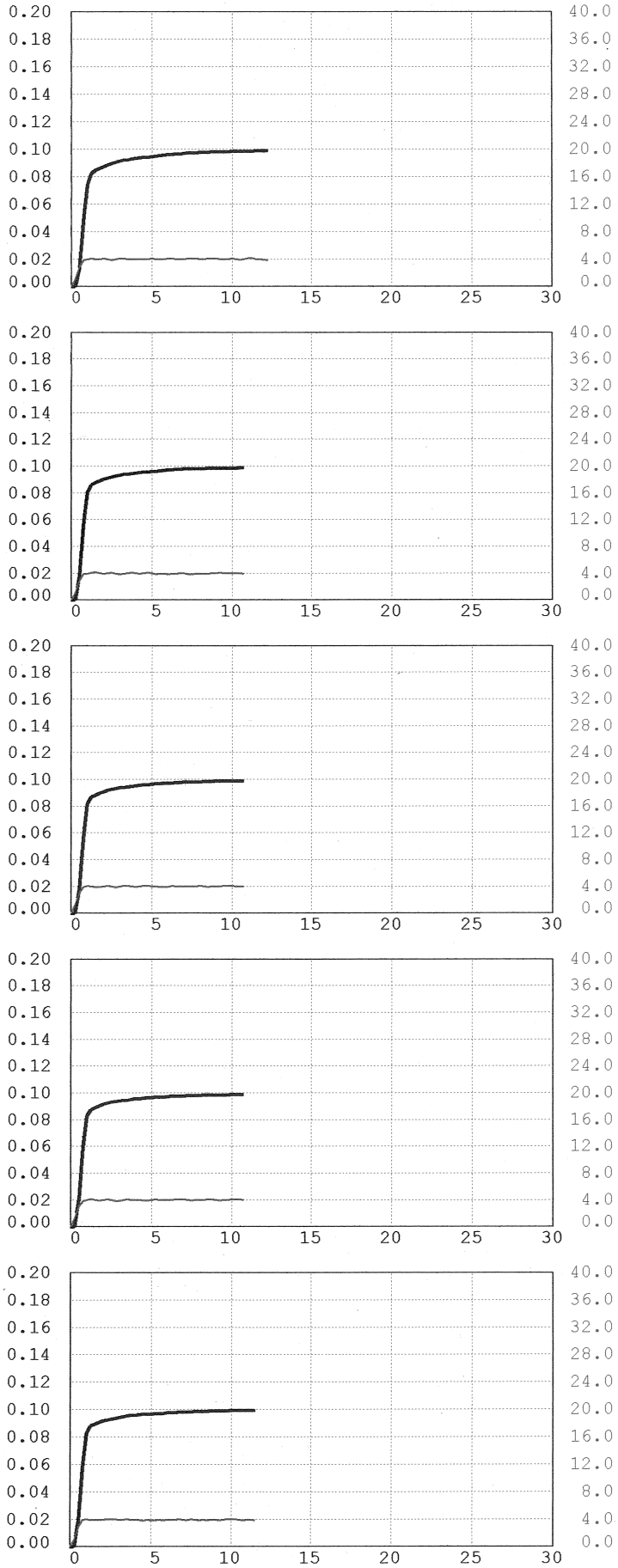
Date: 09/23/2009
Time: 08:02:48

SUPERVISOR NAME: J M K

SOLUTION LOT #: JIOEGWT
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	08:03
CALIBRATION CHECK	PASSED	08:03
Xq = 0.0807 (0.43%)		
SIMULATOR VAPOR	0.099	08:04
X[1] = 0.0992 (-0.0001) (-0.0002)		
SIMULATOR VAPOR	0.099	08:05
X[1] = 0.0993 (-0.0001) (-0.0005)		
SIMULATOR VAPOR	0.099	08:06
X[1] = 0.0993 (-0.0001) (0.0000)		
SIMULATOR VAPOR	0.099	08:07
X[1] = 0.0992 (0.0001) (0.0000)		
SIMULATOR VAPOR	0.099	08:08
X[1] = 0.0998 (-0.0002) (-0.0005)		
BLANK TEST	0.000	08:09

Average = 0.099
Std Dev = 0.0000



Section 3: Power-Up Tests

CALIBRATION REPORT

DataMaster DMT: 103909
Calibration Date: 10/26/2009
Calibrated by: A L B
Lot: 10-02-100

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.101000
CAL =  1.029060    0.800 <= CAL < 1.200
b1  =  0.000000    0.000 <=  b1 < 0.004
b2  =  0.005783    0.001 <=  b2 < 0.012
b3  =  0.000000    0.000 <=  b3 < 0.004
Xq  =  0.080154    0.050 <=  Xq < 0.200
a21 =  1.221164    1.050 <= a21 < 1.300
a31 =  0.488040    0.300 <= a31 < 0.800
```

Performed by x _____ Date 10/26/2009

CERTIFICATION REPORT

DataMaster DMT: 103909
Calibration Date: 10/26/2009
Certification Date: 10/26/2009
Certified by: A L B

VERMONT
DEPARTMENT OF HEALTH

Diagnostic Results

VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

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

SETTINGS
Lamp Voltage = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage = 80.6 V
Chopper Freq = 533.4 Hz

PUMP INFO
Flow Rate = 4.779 L/M

DETECTOR INFO
PUMP ON OFF
MAX(V) -0.0069 -0.0039
MIN(V) -0.0091 -0.0051

FILTER INFO
Filter 1 -0.004 Zero = true
Filter 2 0.275 Zero = true
Filter 3 -0.243 Zero = true

CALIBRATION CHECK
Xq = 0.0805 0.43%

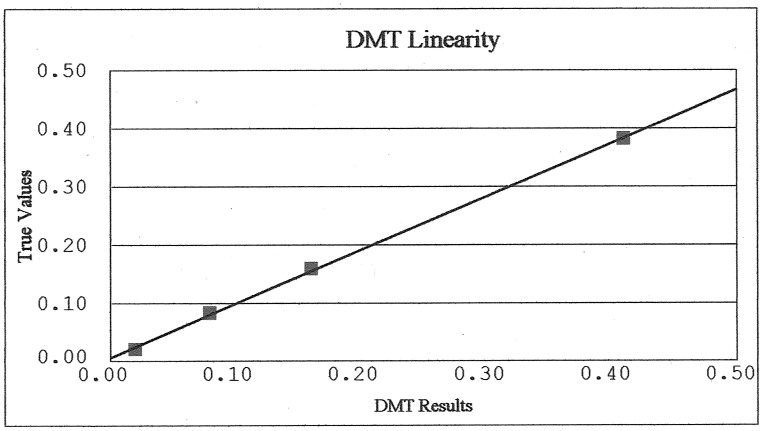
Options

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	0.000
Lot # 09-34-020		
0.083 g/210L	0.080 g/210L	0.001
Lot # 09-43-080		
0.159 g/210L	0.161 g/210L	0.000
Lot # 09-38-160		
0.382 g/210L	0.409 g/210L	0.000
Lot # 09-36-400		

$R^2 = 0.9994$



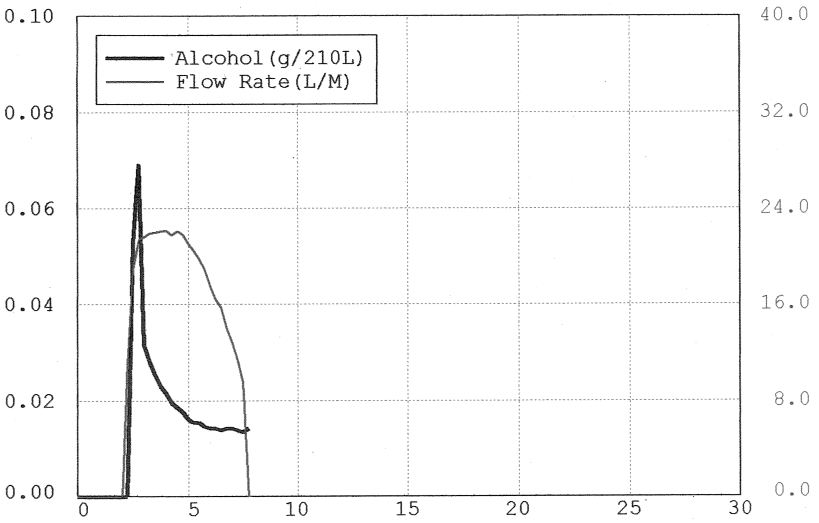
Acetone Interference Test

Lot # 10-05-08A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

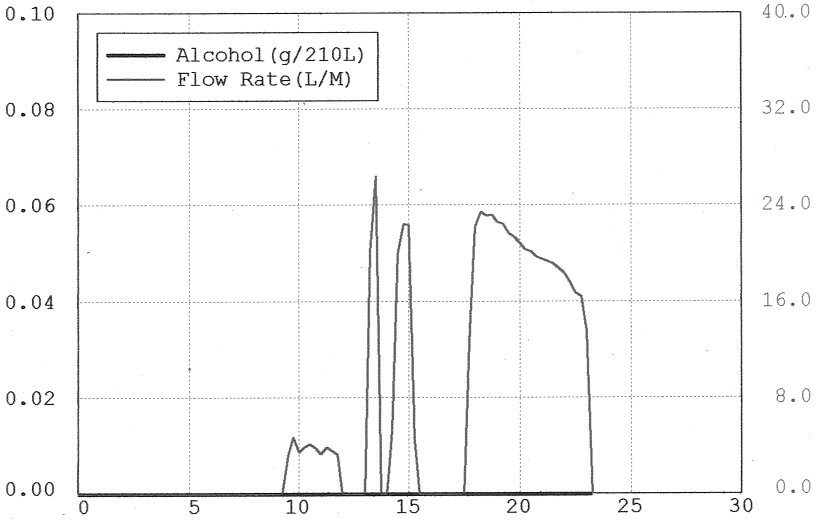


RF Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by * _____ **Date** 10/27/2009

Reviewed by _____ **Date** _____

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

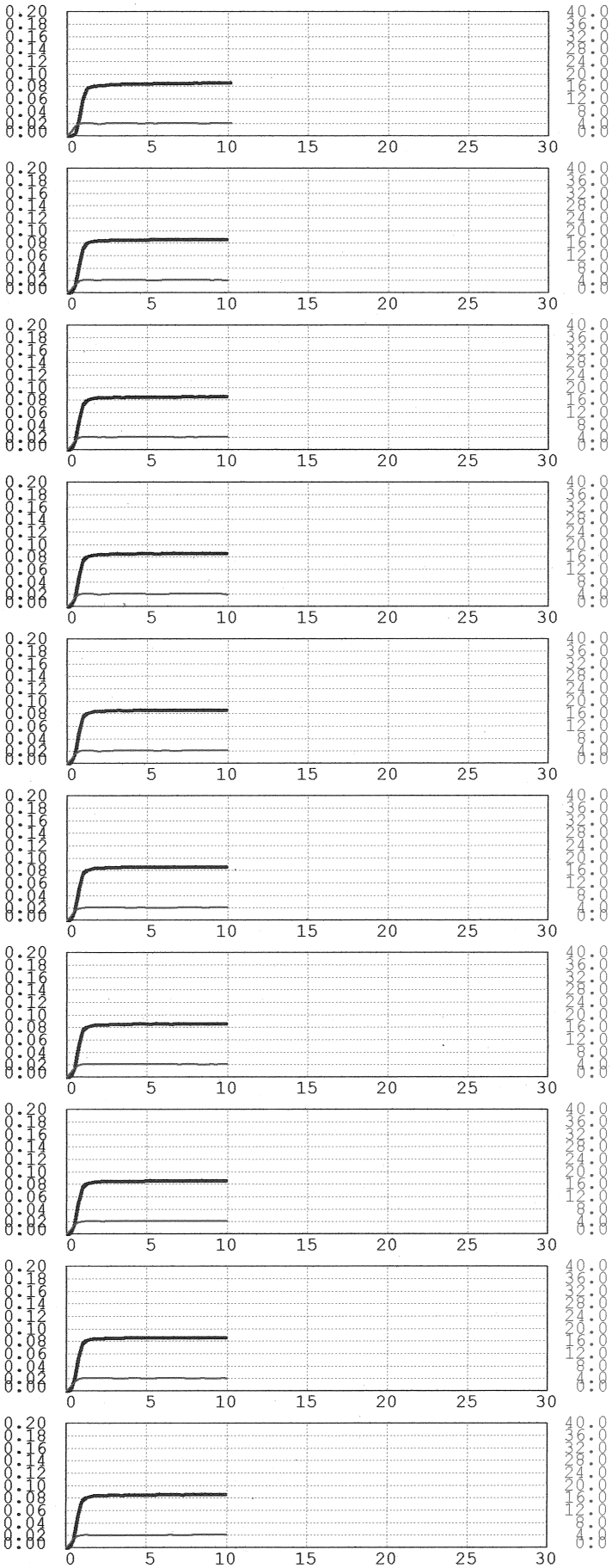
Date: 10/27/2009
Time: 09:39:15

SUPERVISOR NAME: ALB .01ACETONE IN .08ETOH

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

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	09:50

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

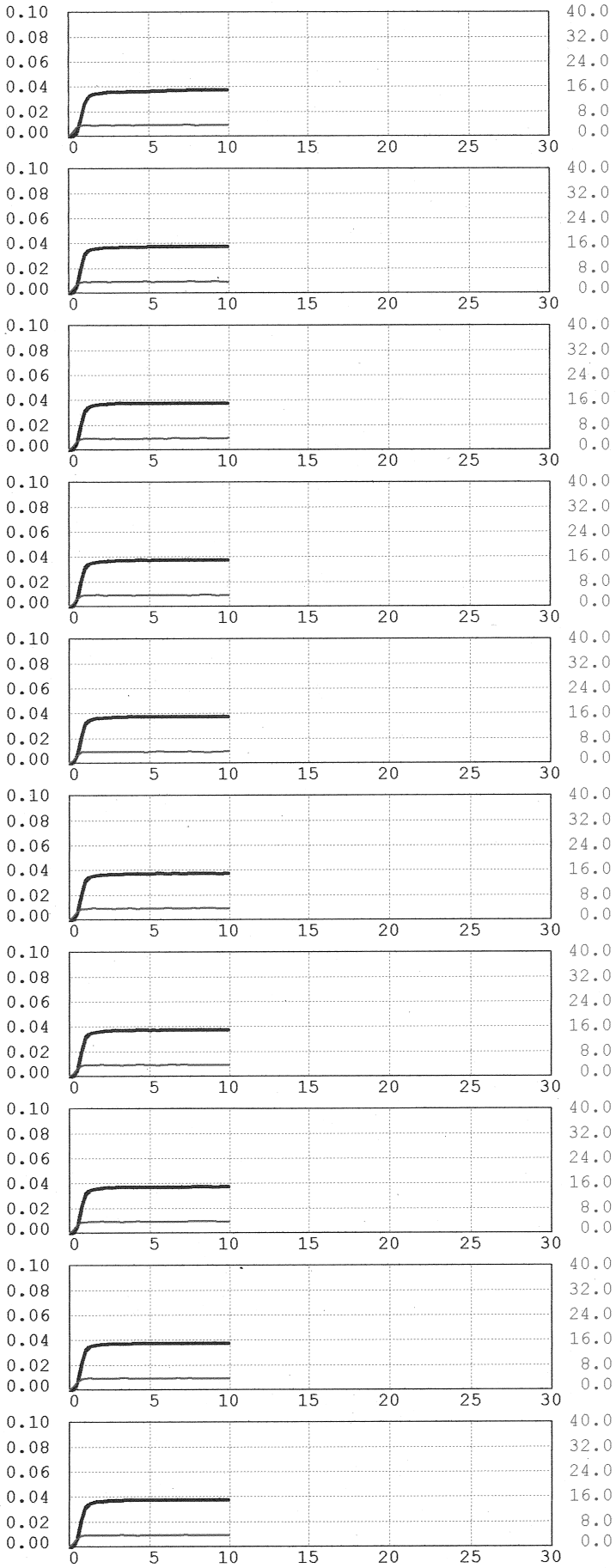
Date: 10/27/2009
Time: 11:50:33

SUPERVISOR NAME: ALB .04IPA IN H2O

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

BLANK TEST	0.000	11:51
CALIBRATION CHECK	PASSED	11:51
SIMULATOR VAPOR	INTERFERENCE	11:51
SIMULATOR VAPOR	INTERFERENCE	11:52
SIMULATOR VAPOR	INTERFERENCE	11:53
SIMULATOR VAPOR	INTERFERENCE	11:54
SIMULATOR VAPOR	INTERFERENCE	11:55
SIMULATOR VAPOR	INTERFERENCE	11:56
SIMULATOR VAPOR	INTERFERENCE	11:57
SIMULATOR VAPOR	INTERFERENCE	11:58
SIMULATOR VAPOR	INTERFERENCE	11:59
SIMULATOR VAPOR	INTERFERENCE	12:00
BLANK TEST	0.000	12:01

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

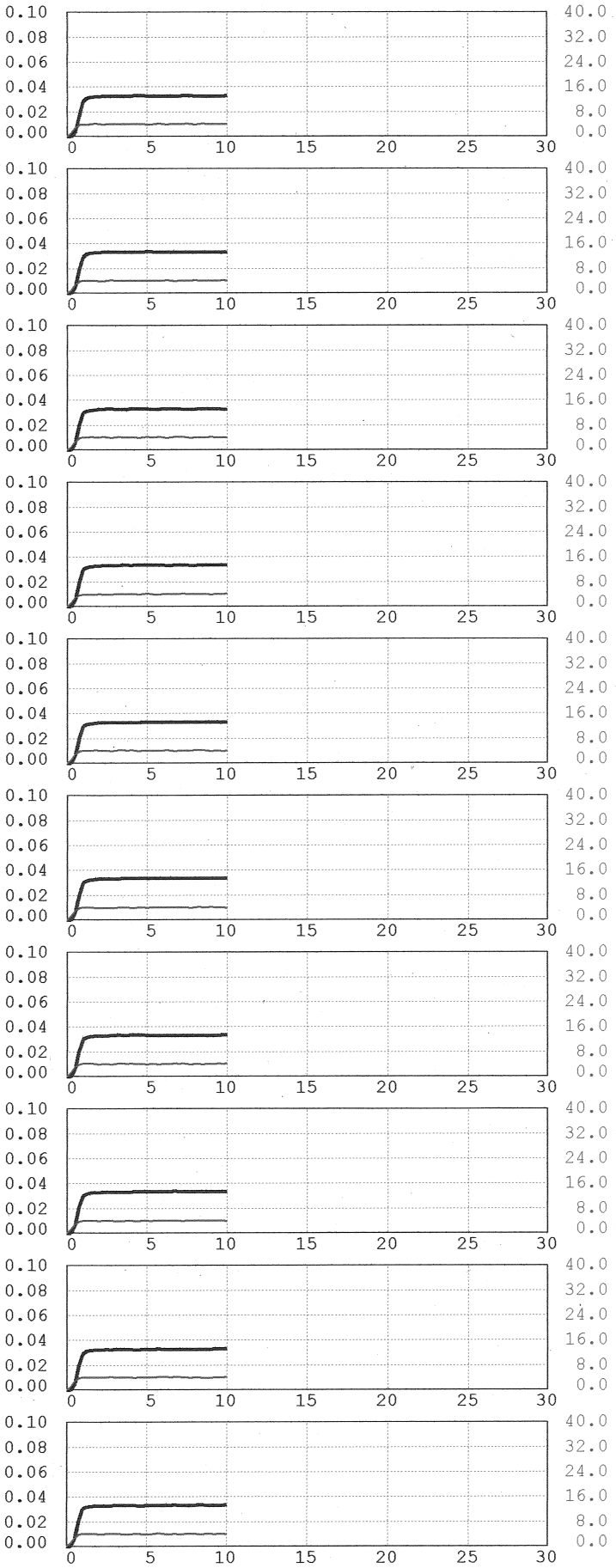
Date: 10/27/2009
Time: 14:25:31

SUPERVISOR NAME: ALB .04MEOH IN H2O

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

BLANK TEST	0.000	14:26
CALIBRATION CHECK	PASSED	14:26
SIMULATOR VAPOR	INTERFERENCE	14:26
SIMULATOR VAPOR	INTERFERENCE	14:27
SIMULATOR VAPOR	INTERFERENCE	14:28
SIMULATOR VAPOR	INTERFERENCE	14:29
SIMULATOR VAPOR	INTERFERENCE	14:30
SIMULATOR VAPOR	INTERFERENCE	14:31
SIMULATOR VAPOR	INTERFERENCE	14:32
SIMULATOR VAPOR	INTERFERENCE	14:33
SIMULATOR VAPOR	INTERFERENCE	14:34
SIMULATOR VAPOR	INTERFERENCE	14:35
BLANK TEST	0.000	14:36

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

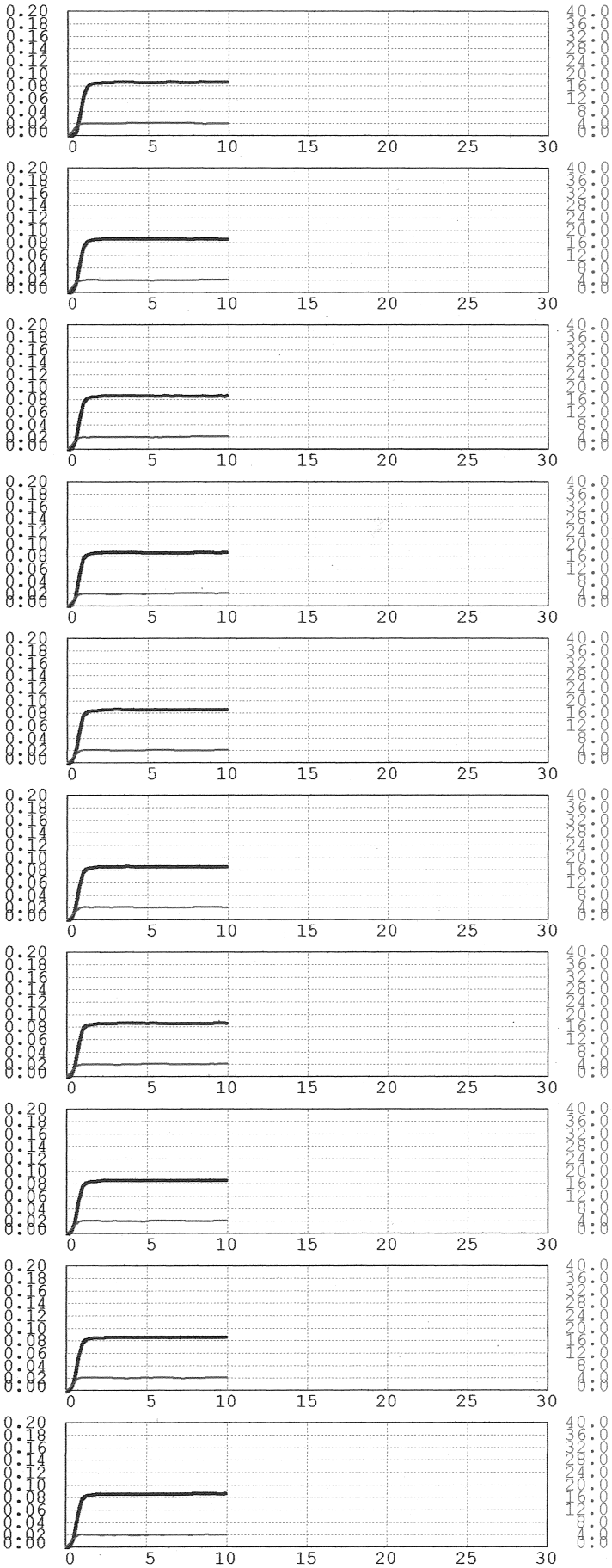
Date: 10/27/2009
Time: 14:38:29

SUPERVISOR NAME: ALB .01ACETONE IN .08ETOH

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

BLANK TEST	0.000	14:39
CALIBRATION CHECK	PASSED	14:39
SIMULATOR VAPOR	INTERFERENCE	14:39
SIMULATOR VAPOR	INTERFERENCE	14:40
SIMULATOR VAPOR	INTERFERENCE	14:42
SIMULATOR VAPOR	INTERFERENCE	14:43
SIMULATOR VAPOR	INTERFERENCE	14:44
SIMULATOR VAPOR	INTERFERENCE	14:45
SIMULATOR VAPOR	INTERFERENCE	14:46
SIMULATOR VAPOR	INTERFERENCE	14:47
SIMULATOR VAPOR	INTERFERENCE	14:48
SIMULATOR VAPOR	INTERFERENCE	14:49
BLANK TEST	0.000	14:50

Average out of range!



Section 4: Linearity

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

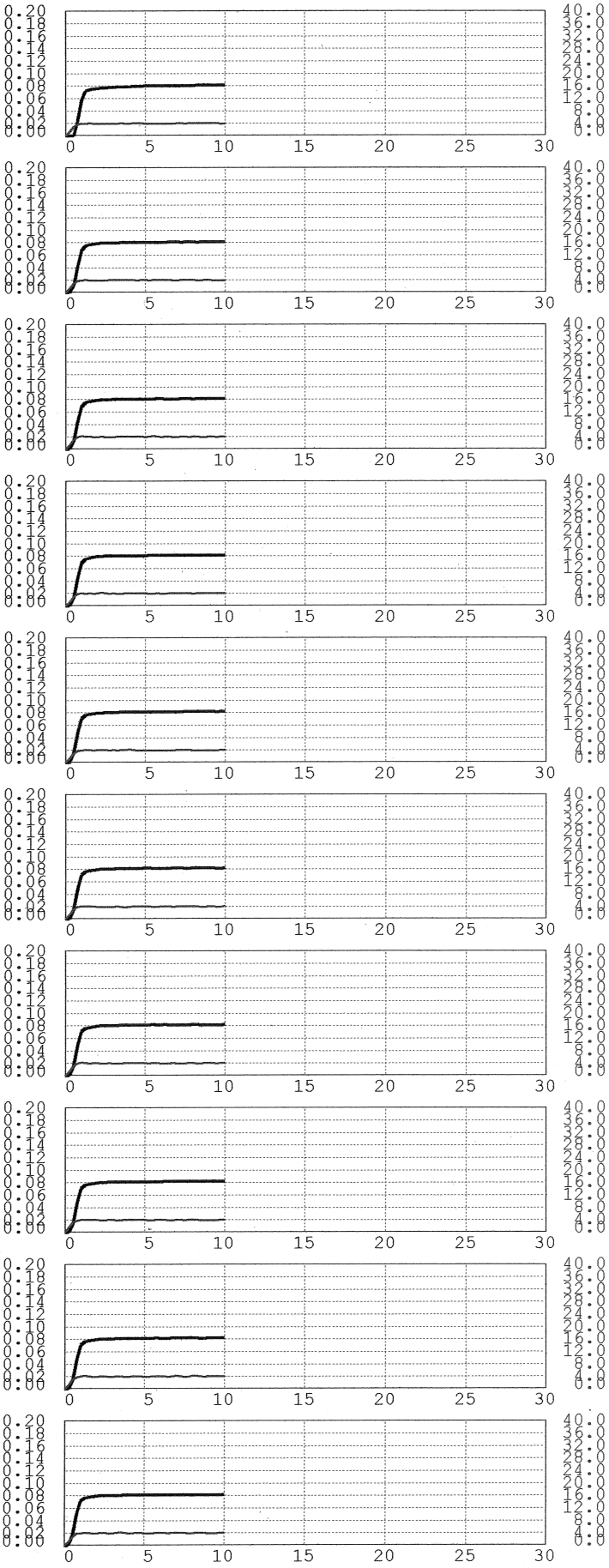
Date: 11/02/2009
Time: 13:42:51

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	13:43
CALIBRATION CHECK	PASSED	13:43
SIMULATOR VAPOR	0.082	13:44
SIMULATOR VAPOR	0.082	13:45
SIMULATOR VAPOR	0.081	13:46
SIMULATOR VAPOR	0.082	13:47
SIMULATOR VAPOR	0.082	13:48
SIMULATOR VAPOR	0.082	13:49
SIMULATOR VAPOR	0.082	13:50
SIMULATOR VAPOR	0.082	13:51
SIMULATOR VAPOR	0.082	13:52
SIMULATOR VAPOR	0.082	13:53
BLANK TEST	0.000	13:53

Average = 0.081
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

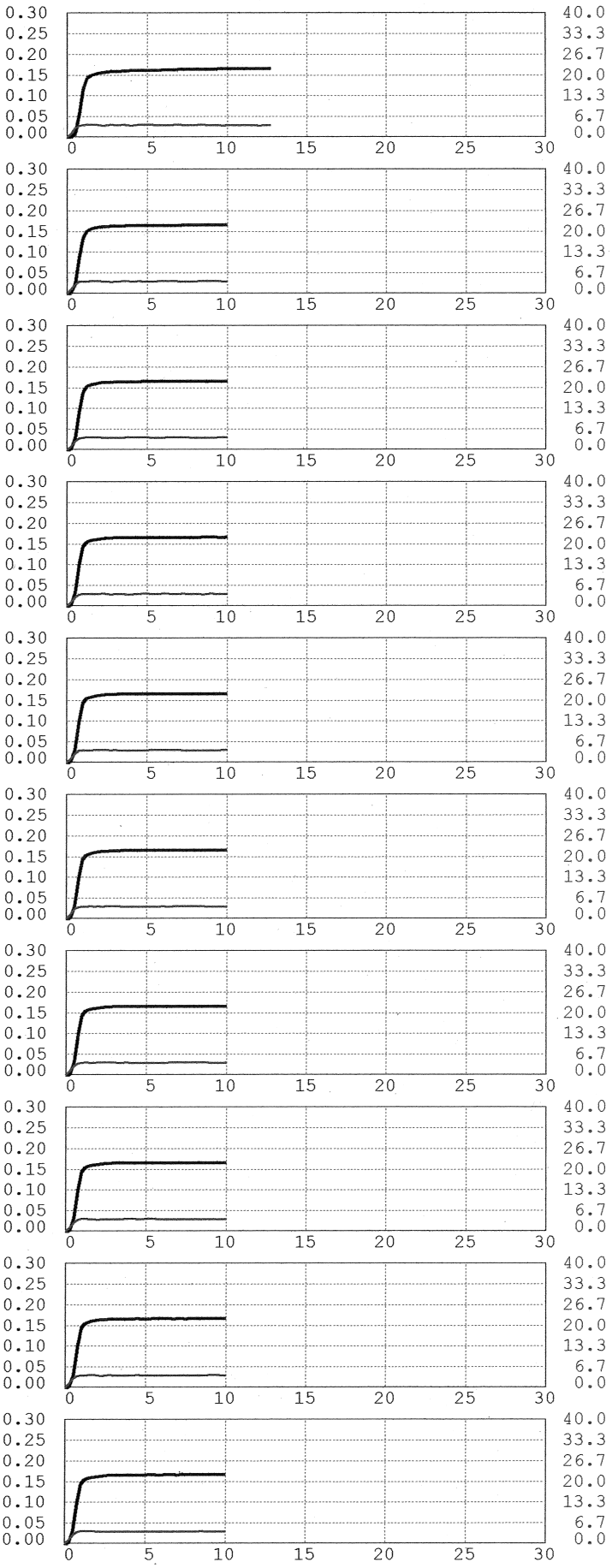
Date: 11/02/2009
Time: 13:55:54

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	13:56
CALIBRATION CHECK	PASSED	13:56
SIMULATOR VAPOR	0.165	13:57
SIMULATOR VAPOR	0.165	13:58
SIMULATOR VAPOR	0.165	13:59
SIMULATOR VAPOR	0.166	14:00
SIMULATOR VAPOR	0.165	14:01
SIMULATOR VAPOR	0.165	14:02
SIMULATOR VAPOR	0.165	14:03
SIMULATOR VAPOR	0.166	14:04
SIMULATOR VAPOR	0.166	14:05
SIMULATOR VAPOR	0.166	14:06
BLANK TEST	0.000	14:07

Average = 0.165
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

Date: 11/02/2009
Time: 14:10:15

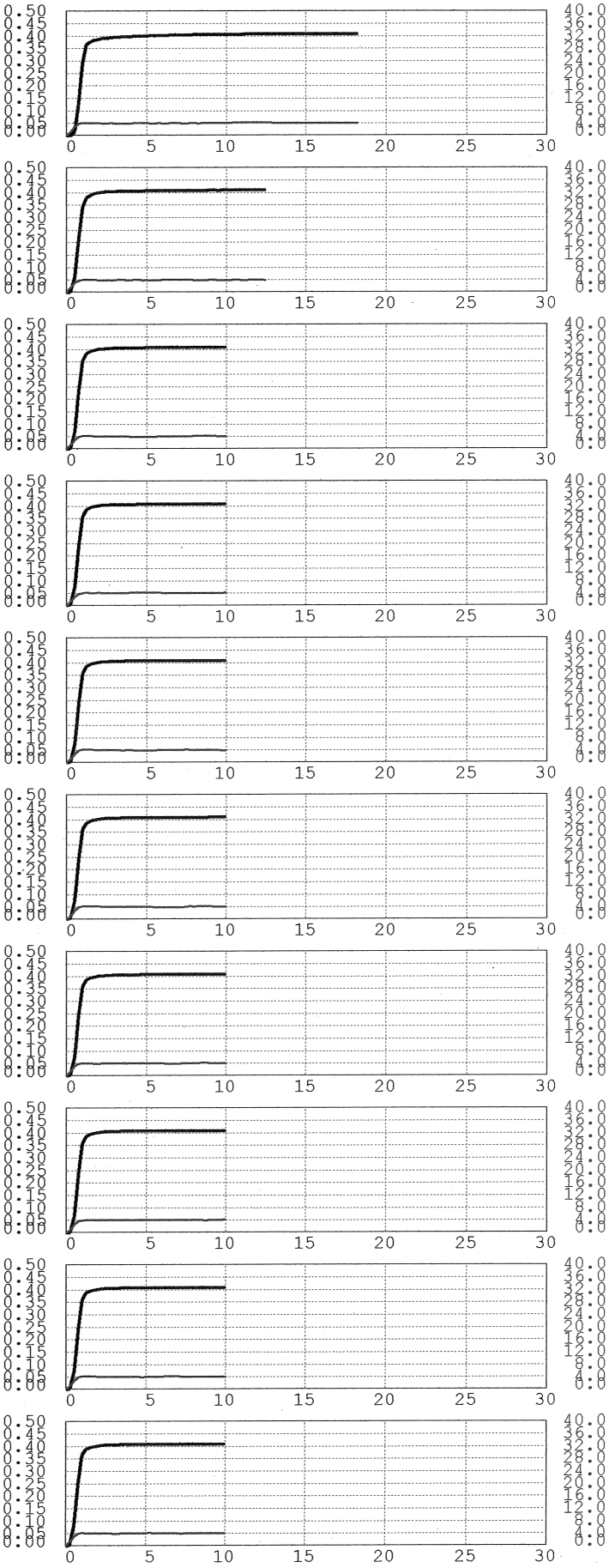
SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	14:11
CALIBRATION CHECK	PASSED	14:11
SIMULATOR VAPOR	0.407	14:11
SIMULATOR VAPOR	0.408	14:12
SIMULATOR VAPOR	0.407	14:14
SIMULATOR VAPOR	0.407	14:15
SIMULATOR VAPOR	0.407	14:16
SIMULATOR VAPOR	0.408	14:17
SIMULATOR VAPOR	0.406	14:18
SIMULATOR VAPOR	0.407	14:19
SIMULATOR VAPOR	0.407	14:20
SIMULATOR VAPOR	0.408	14:21
BLANK TEST	0.000	14:21

Average out of range!

Average = 0.407
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

Date: 11/02/2009
Time: 14:38:22

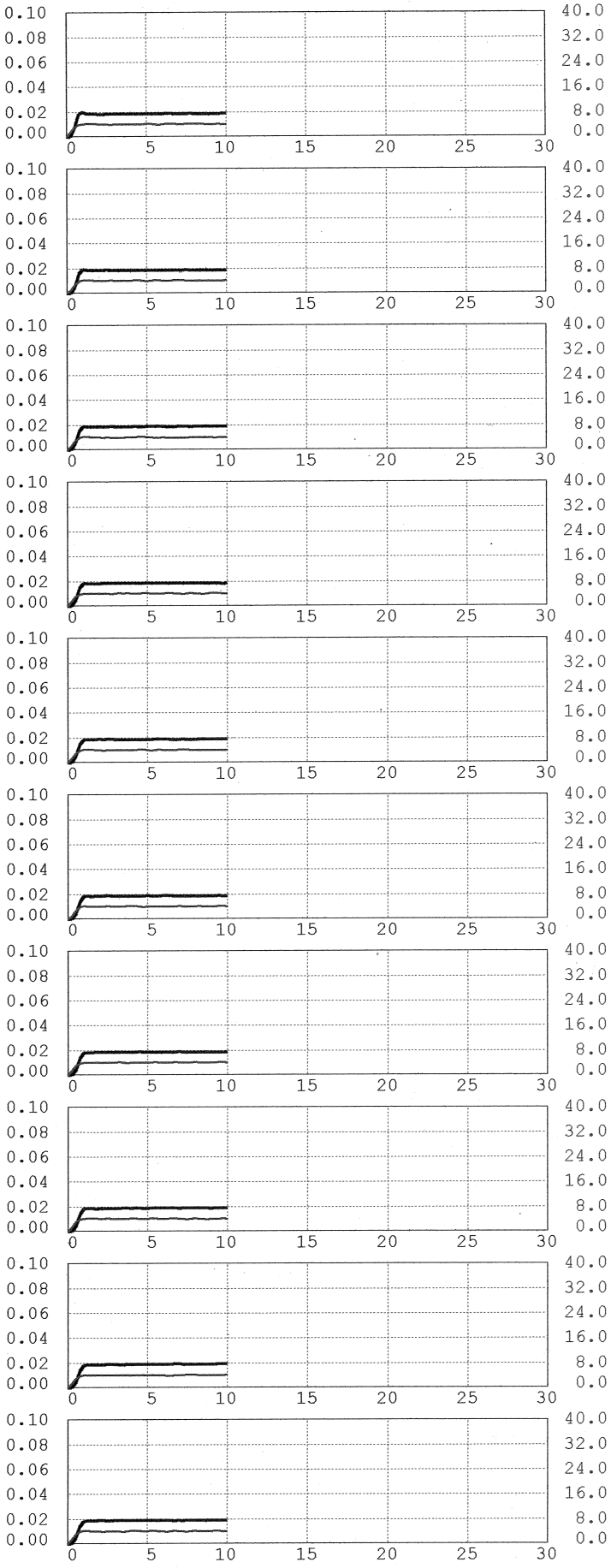
SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	14:39
CALIBRATION CHECK	PASSED	14:39
SIMULATOR VAPOR	0.018	14:39
SIMULATOR VAPOR	0.018	14:40
SIMULATOR VAPOR	0.019	14:41
SIMULATOR VAPOR	0.018	14:42
SIMULATOR VAPOR	0.019	14:43
SIMULATOR VAPOR	0.019	14:44
SIMULATOR VAPOR	0.018	14:45
SIMULATOR VAPOR	0.019	14:46
SIMULATOR VAPOR	0.019	14:47
SIMULATOR VAPOR	0.019	14:48
BLANK TEST	0.000	14:49

Average out of range!

Average = 0.018
Std Dev = 0.0005



DIAGNOSTIC RESULT

DataMaster DMT: 103909
Location:
Calibration Date: 10/26/2009
Certification Date: 10/26/2009
Installation Date: 10/26/2009
Test Date: 11/20/2009
Time: 08:26

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

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

SETTINGS
Lamp Voltage   = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage   = 80.6 V
Chopper Freq   = 533.7 Hz

PUMP INFO
Flow Rate = 4.661 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.0291    0.0293
MIN(V)   0.0262    0.0276

FILTER INFO
Filter 1   0.029   Zero = true
Filter 2   0.311   Zero = true
Filter 3 -0.213   Zero = true

CALIBRATION CHECK
Xq = 0.0802   0.11%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

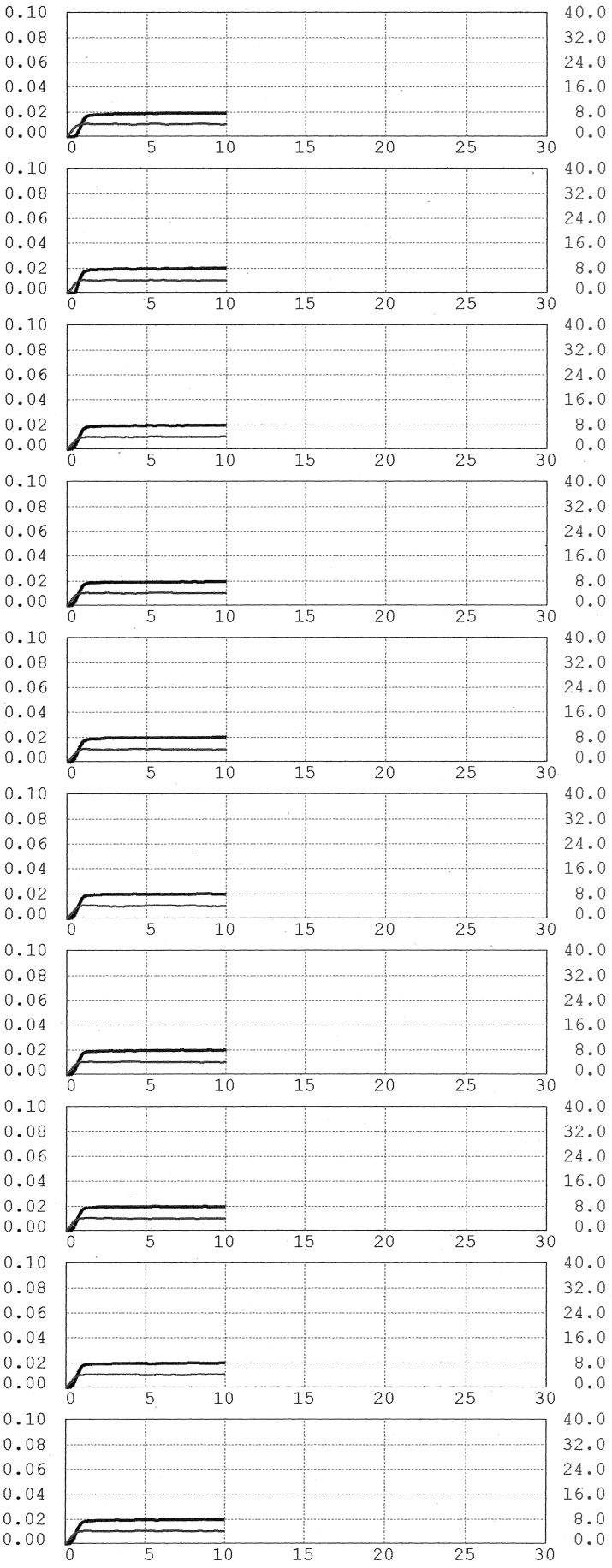
Date: 11/20/2009
Time: 08:43:14

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	08:44
CALIBRATION CHECK	PASSED	08:44
SIMULATOR VAPOR	0.019	08:44
SIMULATOR VAPOR	0.020	08:45
SIMULATOR VAPOR	0.019	08:46
SIMULATOR VAPOR	0.019	08:47
SIMULATOR VAPOR	0.020	08:48
SIMULATOR VAPOR	0.020	08:49
SIMULATOR VAPOR	0.020	08:50
SIMULATOR VAPOR	0.020	08:51
SIMULATOR VAPOR	0.019	08:52
SIMULATOR VAPOR	0.019	08:53
BLANK TEST	0.000	08:54

Average = 0.019
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

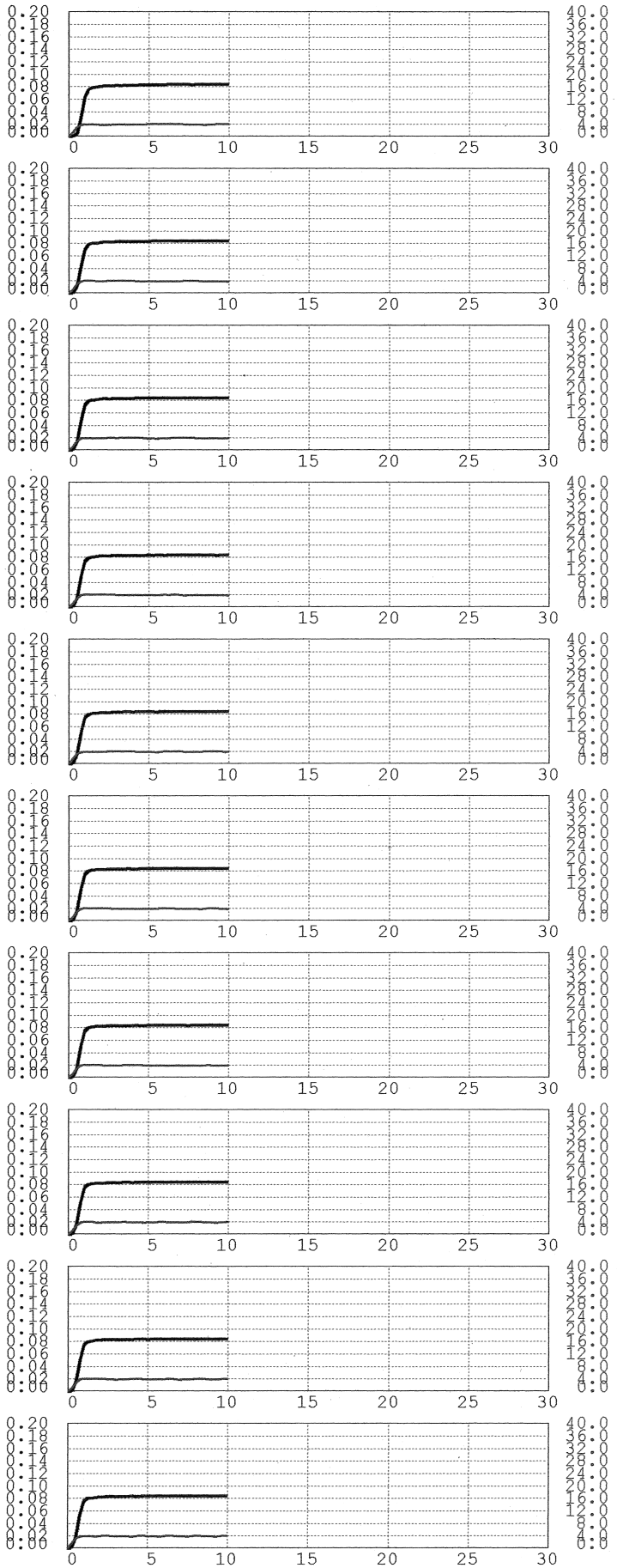
Date: 11/20/2009
Time: 08:57:13

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	08:58
CALIBRATION CHECK	PASSED	08:58
SIMULATOR VAPOR	0.083	08:58
SIMULATOR VAPOR	0.083	08:59
SIMULATOR VAPOR	0.084	09:00
SIMULATOR VAPOR	0.083	09:02
SIMULATOR VAPOR	0.083	09:03
SIMULATOR VAPOR	0.083	09:04
SIMULATOR VAPOR	0.083	09:05
SIMULATOR VAPOR	0.083	09:06
SIMULATOR VAPOR	0.083	09:07
SIMULATOR VAPOR	0.083	09:08
BLANK TEST	0.000	09:08

Average = 0.083
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

Date: 11/20/2009
Time: 09:12:01

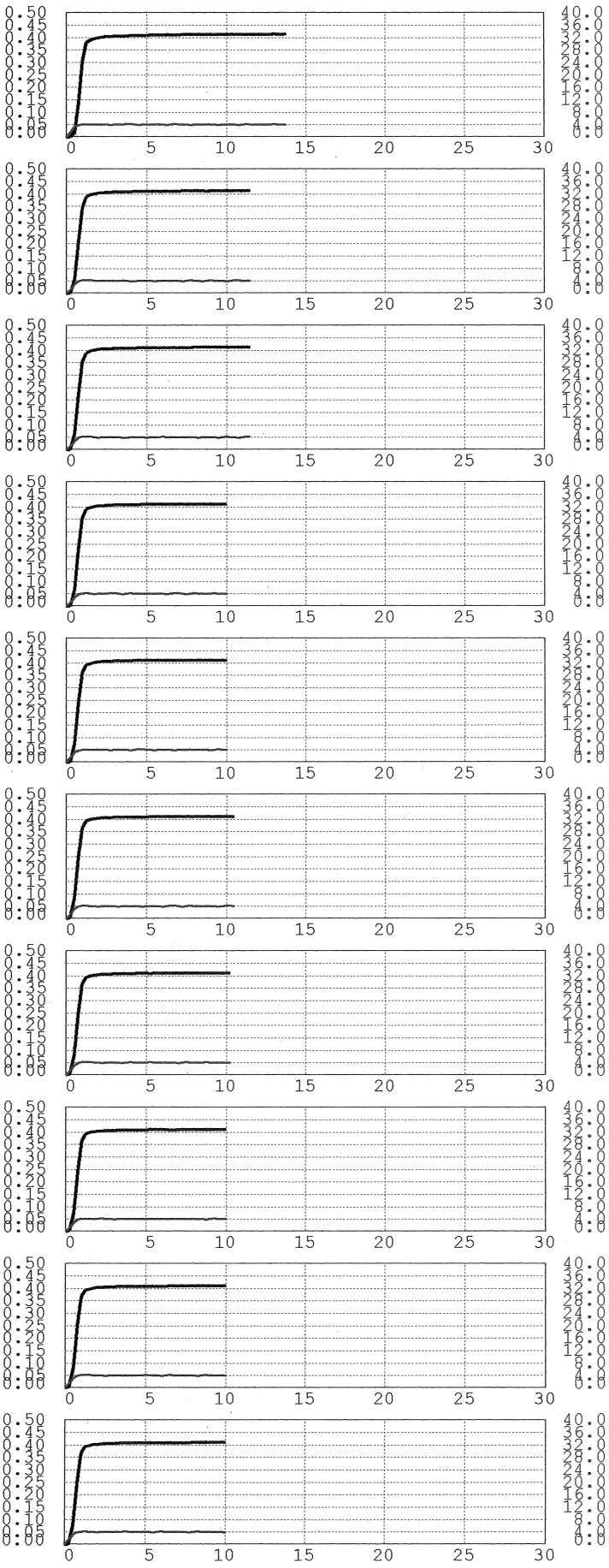
SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	09:12
CALIBRATION CHECK	PASSED	09:13
SIMULATOR VAPOR	0.412	09:13
SIMULATOR VAPOR	0.411	09:14
SIMULATOR VAPOR	0.411	09:16
SIMULATOR VAPOR	0.410	09:17
SIMULATOR VAPOR	0.409	09:18
SIMULATOR VAPOR	0.409	09:19
SIMULATOR VAPOR	0.409	09:20
SIMULATOR VAPOR	0.409	09:21
SIMULATOR VAPOR	0.408	09:22
SIMULATOR VAPOR	0.408	09:23
BLANK TEST	0.000	09:24

Average out of range!

Average = 0.409
Std Dev = 0.0013



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

Date: 11/20/2009
Time: 09:35:30

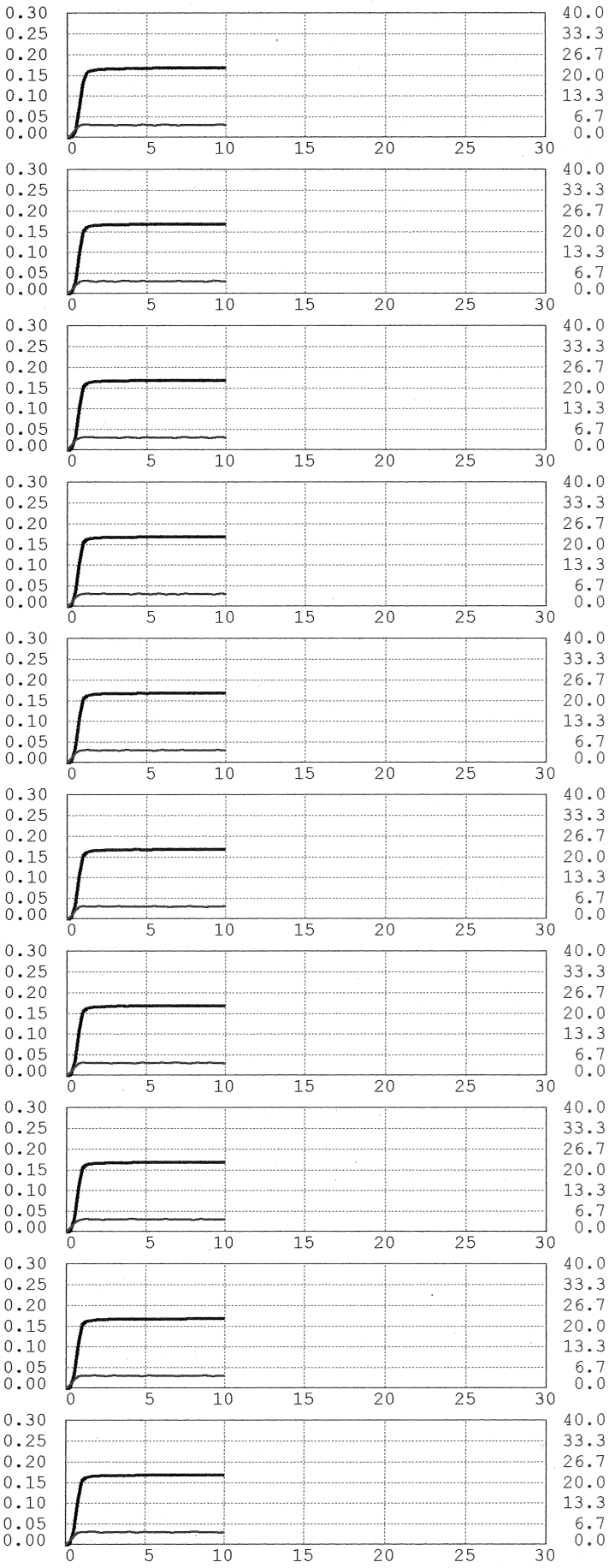
SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	09:36
CALIBRATION CHECK	PASSED	09:36
SIMULATOR VAPOR	0.168	09:36
SIMULATOR VAPOR	0.168	09:37
SIMULATOR VAPOR	0.168	09:38
SIMULATOR VAPOR	0.168	09:39
SIMULATOR VAPOR	0.168	09:40
SIMULATOR VAPOR	0.168	09:41
SIMULATOR VAPOR	0.168	09:42
SIMULATOR VAPOR	0.168	09:44
SIMULATOR VAPOR	0.167	09:45
SIMULATOR VAPOR	0.168	09:46
BLANK TEST	0.000	09:46

Average out of range!

Average = 0.167
Std Dev = 0.0003



DIAGNOSTIC RESULT

DataMaster DMT: 103909
Location:
Calibration Date: 10/26/2009
Certification Date: 10/26/2009
Installation Date: 10/26/2009
Test Date: 11/23/2009
Time: 07:01

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 49.15°C
Breath Tube    = 48.09°C

SETTINGS
Lamp Voltage   = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage   = 80.6 V
Chopper Freq   = 534.4 Hz

PUMP INFO
Flow Rate = 4.762 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V) -0.0083   -0.0077
MIN(V) -0.0106   -0.0091

FILTER INFO
Filter 1 -0.008  Zero = true
Filter 2  0.272  Zero = true
Filter 3 -0.254  Zero = true

CALIBRATION CHECK
Xq = 0.0805  0.54%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

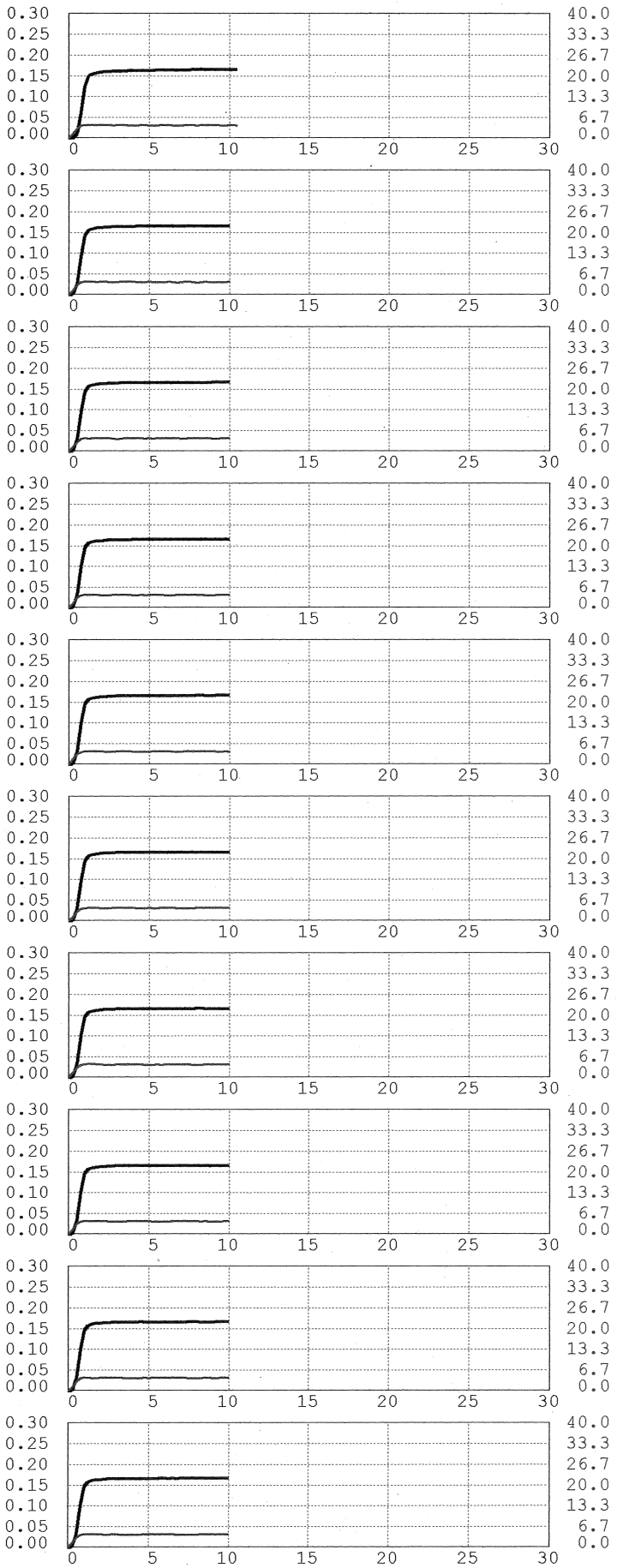
Date: 11/23/2009
Time: 07:02:48

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	07:03
CALIBRATION CHECK	PASSED	07:03
SIMULATOR VAPOR	0.165	07:04
SIMULATOR VAPOR	0.165	07:05
SIMULATOR VAPOR	0.166	07:06
SIMULATOR VAPOR	0.165	07:07
SIMULATOR VAPOR	0.166	07:08
SIMULATOR VAPOR	0.166	07:09
SIMULATOR VAPOR	0.166	07:10
SIMULATOR VAPOR	0.166	07:11
SIMULATOR VAPOR	0.166	07:12
SIMULATOR VAPOR	0.166	07:13
BLANK TEST	0.000	07:14

Average = 0.165
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

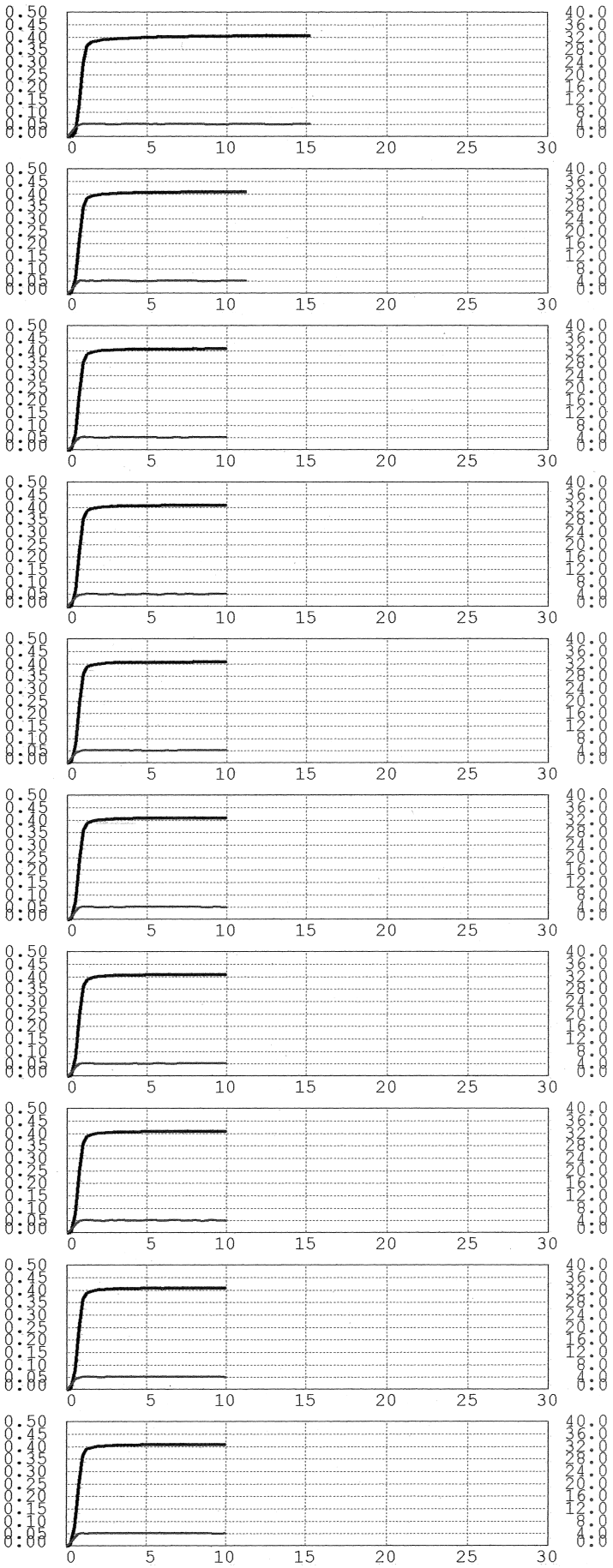
Date: 11/23/2009
Time: 07:56:54

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	07:57
CALIBRATION CHECK	PASSED	07:57
SIMULATOR VAPOR	0.404	07:58
SIMULATOR VAPOR	0.406	07:59
SIMULATOR VAPOR	0.405	08:00
SIMULATOR VAPOR	0.405	08:01
SIMULATOR VAPOR	0.406	08:02
SIMULATOR VAPOR	0.406	08:03
SIMULATOR VAPOR	0.406	08:04
SIMULATOR VAPOR	0.406	08:05
SIMULATOR VAPOR	0.406	08:06
SIMULATOR VAPOR	0.406	08:07
BLANK TEST	0.000	08:08

Average = 0.405
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

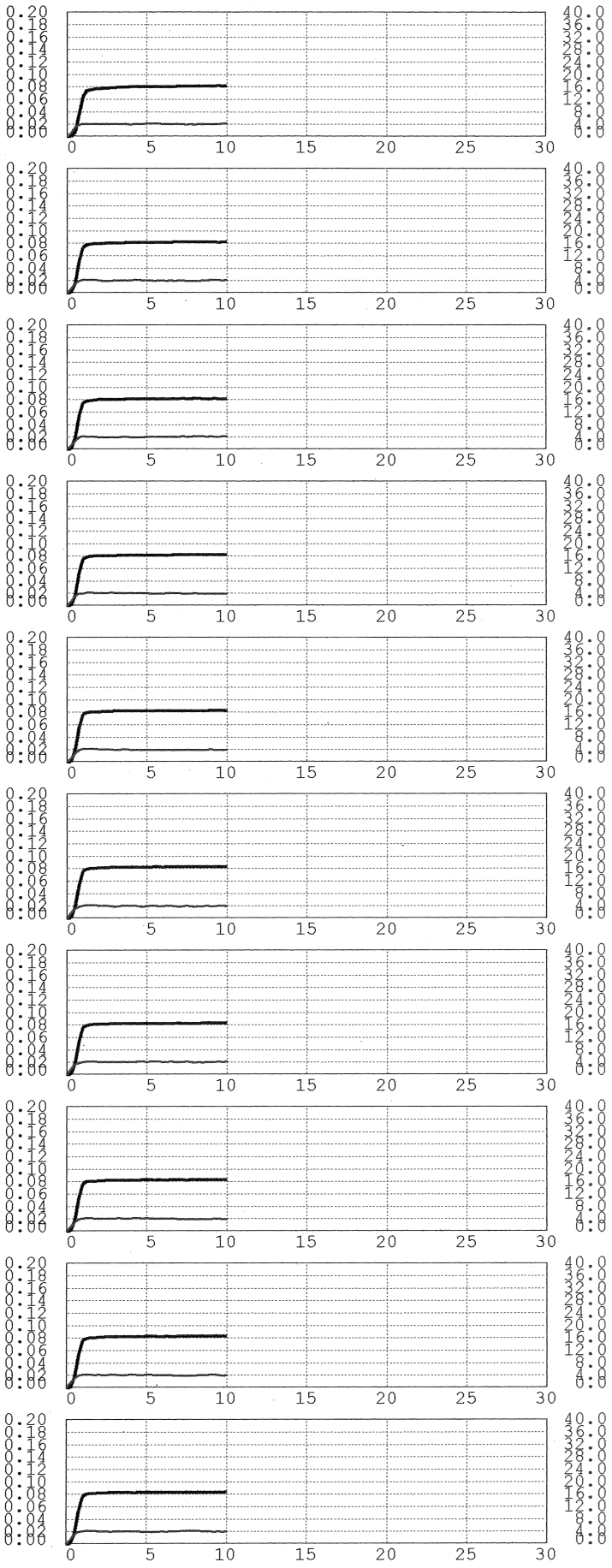
Date: 11/23/2009
Time: 09:22:31

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	09:23
CALIBRATION CHECK	PASSED	09:23
SIMULATOR VAPOR	0.082	09:23
SIMULATOR VAPOR	0.082	09:24
SIMULATOR VAPOR	0.082	09:25
SIMULATOR VAPOR	0.082	09:26
SIMULATOR VAPOR	0.082	09:27
SIMULATOR VAPOR	0.083	09:28
SIMULATOR VAPOR	0.083	09:29
SIMULATOR VAPOR	0.082	09:30
SIMULATOR VAPOR	0.082	09:31
SIMULATOR VAPOR	0.083	09:32
BLANK TEST	0.000	09:33

Average = 0.082
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

Date: 11/23/2009
Time: 09:40:29

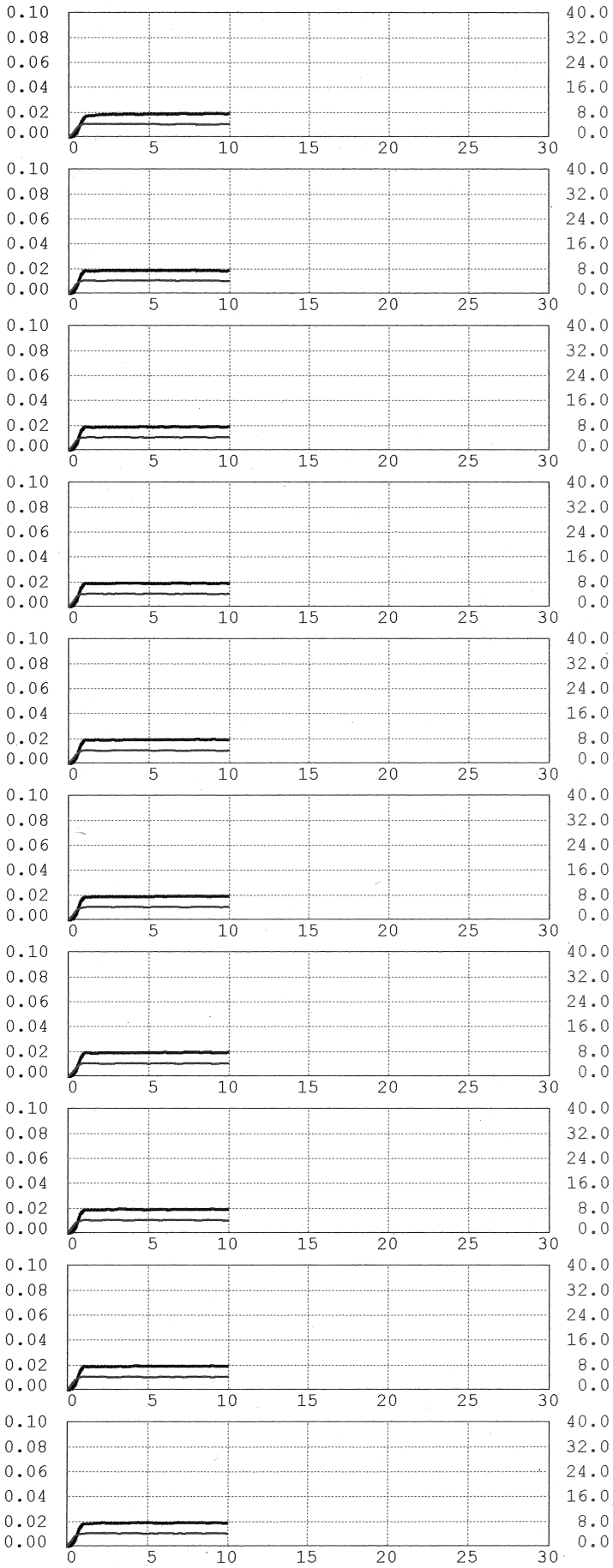
SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	09:41
CALIBRATION CHECK	PASSED	09:41
SIMULATOR VAPOR	0.019	09:41
SIMULATOR VAPOR	0.019	09:42
SIMULATOR VAPOR	0.018	09:43
SIMULATOR VAPOR	0.019	09:44
SIMULATOR VAPOR	0.019	09:45
SIMULATOR VAPOR	0.019	09:46
SIMULATOR VAPOR	0.019	09:47
SIMULATOR VAPOR	0.019	09:48
SIMULATOR VAPOR	0.019	09:49
SIMULATOR VAPOR	0.019	09:50
BLANK TEST	0.000	09:51

Average out of range!

Average = 0.018
Std Dev = 0.0003



DIAGNOSTIC RESULT

DataMaster DMT: 103909
Location:
Calibration Date: 10/26/2009
Certification Date: 10/26/2009
Installation Date: 10/26/2009
Test Date: 11/23/2009
Time: 13:32

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.68°C
Breath Tube    = 48.09°C

SETTINGS
Lamp Voltage   = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage   = 80.6 V
Chopper Freq   = 532.9 Hz

PUMP INFO
Flow Rate = 4.723 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V) -0.0183   -0.0173
MIN(V) -0.0207   -0.0193

FILTER INFO
Filter 1 -0.018  Zero = true
Filter 2  0.264  Zero = true
Filter 3 -0.268  Zero = true

CALIBRATION CHECK
Xq = 0.0798  0.32%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

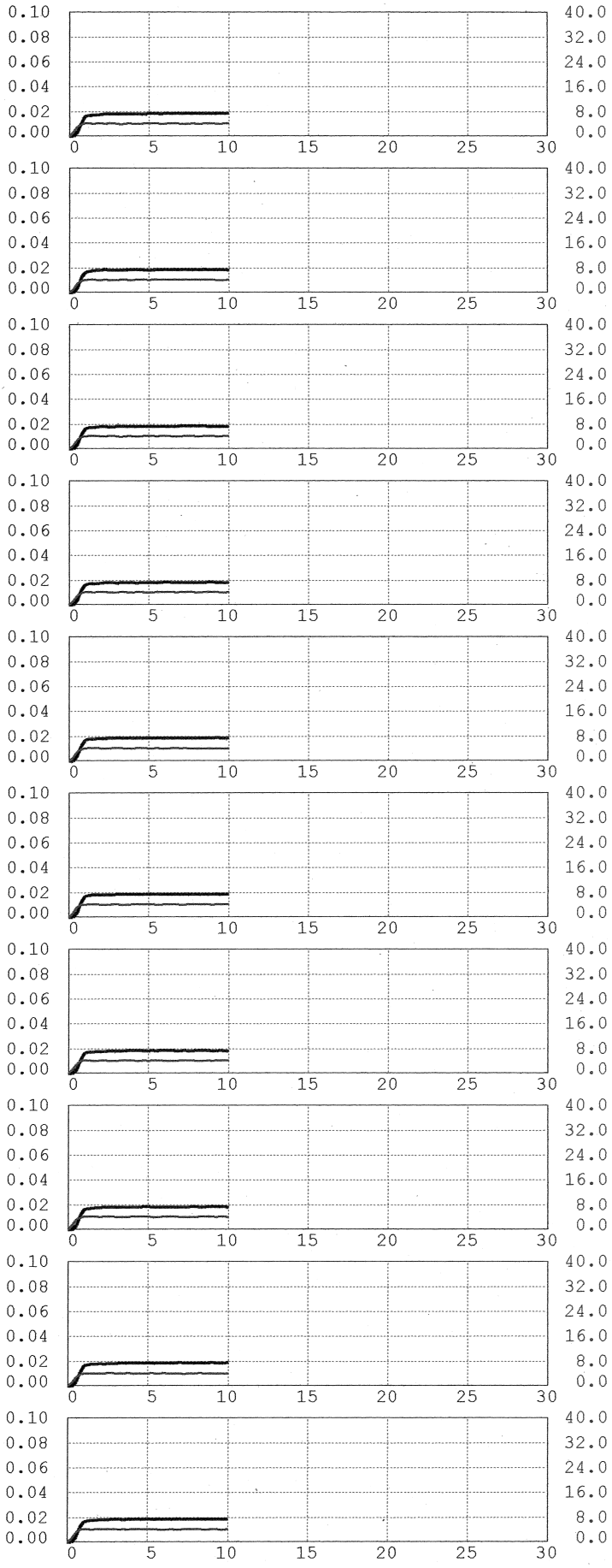
Date: 11/23/2009
Time: 13:46:52

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	13:47
CALIBRATION CHECK	PASSED	13:47
SIMULATOR VAPOR	0.019	13:48
SIMULATOR VAPOR	0.019	13:49
SIMULATOR VAPOR	0.019	13:50
SIMULATOR VAPOR	0.019	13:51
SIMULATOR VAPOR	0.019	13:52
SIMULATOR VAPOR	0.019	13:53
SIMULATOR VAPOR	0.019	13:54
SIMULATOR VAPOR	0.019	13:55
SIMULATOR VAPOR	0.019	13:56
SIMULATOR VAPOR	0.019	13:56
BLANK TEST	0.000	13:57

Average = 0.019
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

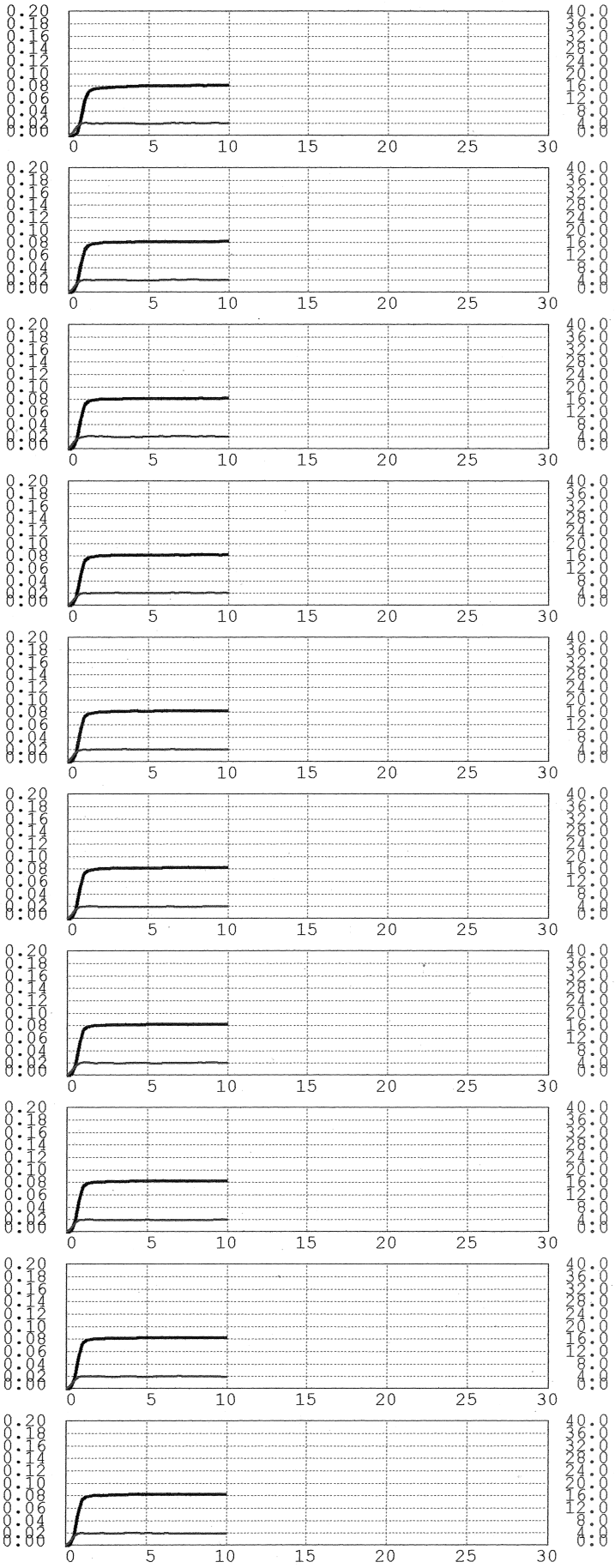
Date: 11/23/2009
Time: 13:59:08

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	14:00
CALIBRATION CHECK	PASSED	14:00
SIMULATOR VAPOR	0.081	14:00
SIMULATOR VAPOR	0.081	14:01
SIMULATOR VAPOR	0.082	14:02
SIMULATOR VAPOR	0.082	14:03
SIMULATOR VAPOR	0.082	14:04
SIMULATOR VAPOR	0.082	14:05
SIMULATOR VAPOR	0.082	14:06
SIMULATOR VAPOR	0.082	14:07
SIMULATOR VAPOR	0.082	14:08
SIMULATOR VAPOR	0.082	14:09
BLANK TEST	0.000	14:10

Average = 0.081
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

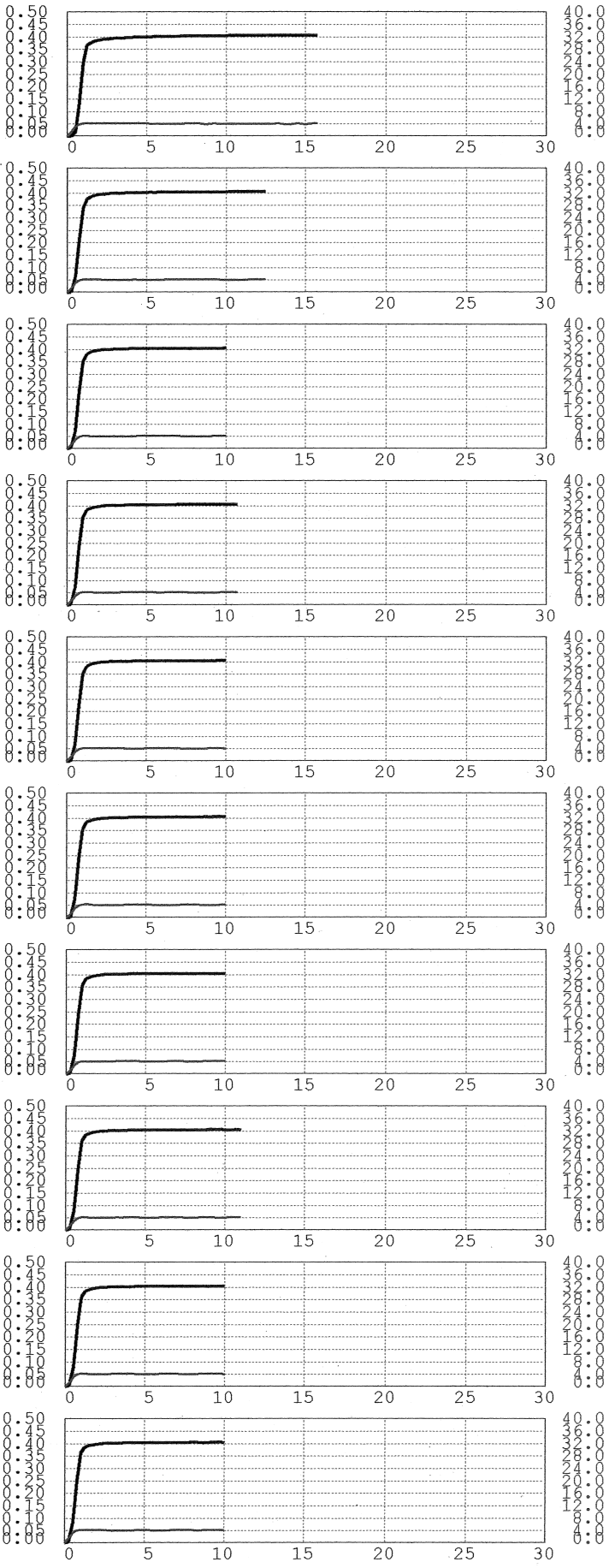
Date: 11/23/2009
Time: 14:12:32

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	14:13
CALIBRATION CHECK	PASSED	14:13
SIMULATOR VAPOR	0.405	14:13
SIMULATOR VAPOR	0.404	14:15
SIMULATOR VAPOR	0.403	14:16
SIMULATOR VAPOR	0.404	14:17
SIMULATOR VAPOR	0.403	14:18
SIMULATOR VAPOR	0.403	14:19
SIMULATOR VAPOR	0.403	14:20
SIMULATOR VAPOR	0.403	14:21
SIMULATOR VAPOR	0.403	14:22
SIMULATOR VAPOR	0.403	14:23
BLANK TEST	0.000	14:24

Average = 0.403
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

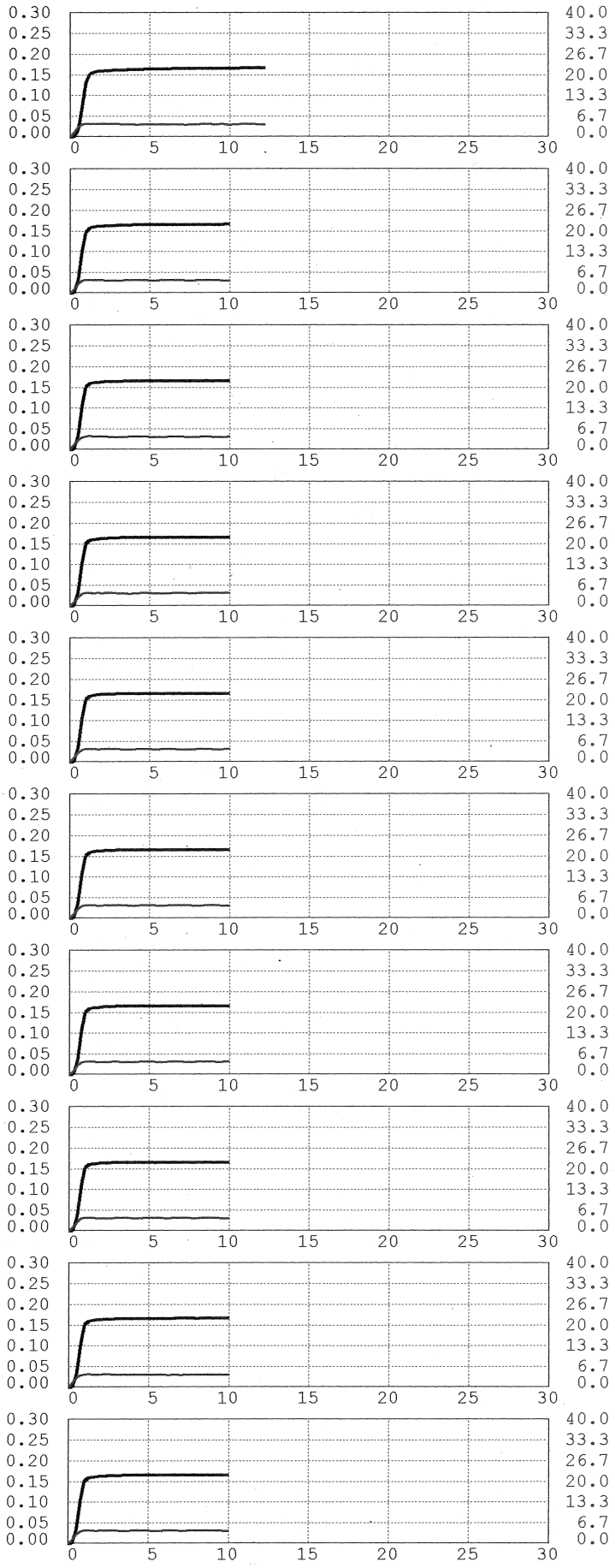
Date: 11/23/2009
Time: 14:29:13

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	14:30
CALIBRATION CHECK	PASSED	14:30
SIMULATOR VAPOR	0.166	14:30
SIMULATOR VAPOR	0.165	14:31
SIMULATOR VAPOR	0.165	14:33
SIMULATOR VAPOR	0.165	14:34
SIMULATOR VAPOR	0.165	14:35
SIMULATOR VAPOR	0.165	14:36
SIMULATOR VAPOR	0.165	14:37
SIMULATOR VAPOR	0.166	14:38
SIMULATOR VAPOR	0.166	14:39
SIMULATOR VAPOR	0.165	14:40
BLANK TEST	0.000	14:41

Average = 0.165
Std Dev = 0.0004



DIAGNOSTIC RESULT

DataMaster DMT: 103909
Location:
Calibration Date: 10/26/2009
Certification Date: 10/26/2009
Installation Date: 10/26/2009
Test Date: 11/30/2009
Time: 12:58

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.03
PIC 2.06
Modem 1.06
Questions 1.00
Reports 1.02

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

SETTINGS
Lamp Voltage   = 1.72 V
Cooler Voltage = 1.69 V
Bias Voltage   = 80.6 V
Chopper Freq   = 529.9 Hz

PUMP INFO
Flow Rate = 4.515 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.3012    0.3039
MIN(V)   0.2996    0.3022

FILTER INFO
Filter 1   0.303   Zero = true
Filter 2   0.566   Zero = true
Filter 3   0.056   Zero = true

CALIBRATION CHECK
Xq = 0.0814   1.63%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

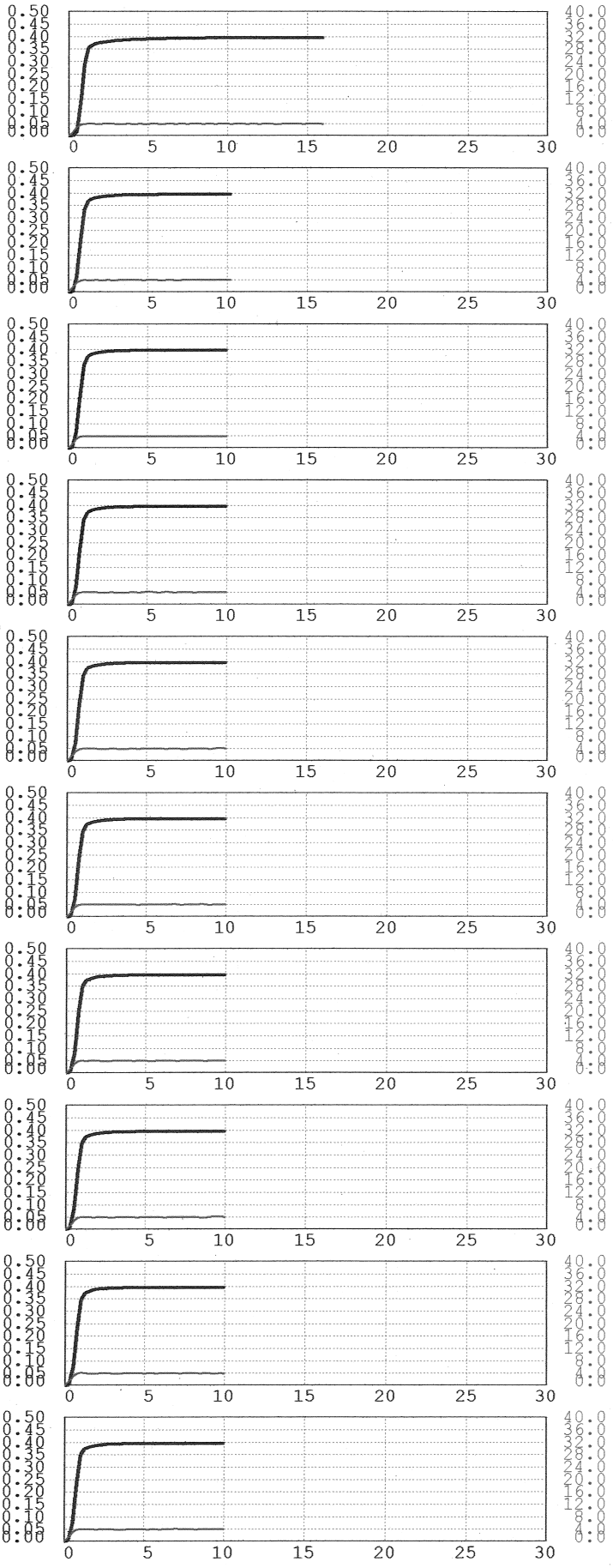
Date: 11/30/2009
Time: 13:06:48

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	13:07
CALIBRATION CHECK	PASSED	13:07
SIMULATOR VAPOR	0.394	13:08
SIMULATOR VAPOR	0.393	13:09
SIMULATOR VAPOR	0.393	13:10
SIMULATOR VAPOR	0.393	13:11
SIMULATOR VAPOR	0.393	13:12
SIMULATOR VAPOR	0.394	13:13
SIMULATOR VAPOR	0.393	13:14
SIMULATOR VAPOR	0.393	13:15
SIMULATOR VAPOR	0.394	13:16
SIMULATOR VAPOR	0.393	13:17
BLANK TEST	0.000	13:18

Average = 0.393
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

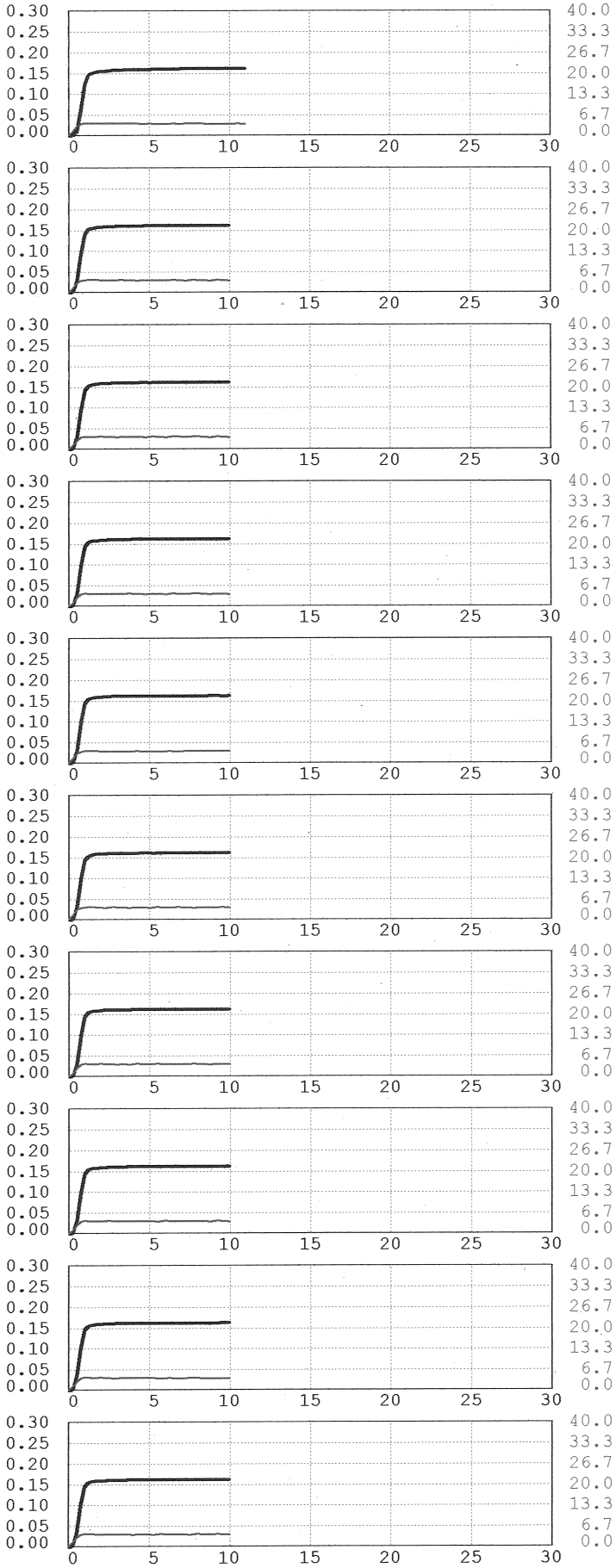
Date: 11/30/2009
Time: 14:06:21

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	14:07
CALIBRATION CHECK	PASSED	14:07
SIMULATOR VAPOR	0.161	14:07
SIMULATOR VAPOR	0.161	14:08
SIMULATOR VAPOR	0.161	14:09
SIMULATOR VAPOR	0.161	14:10
SIMULATOR VAPOR	0.162	14:11
SIMULATOR VAPOR	0.161	14:12
SIMULATOR VAPOR	0.161	14:13
SIMULATOR VAPOR	0.161	14:14
SIMULATOR VAPOR	0.162	14:15
SIMULATOR VAPOR	0.161	14:16
BLANK TEST	0.000	14:17

Average = 0.161
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

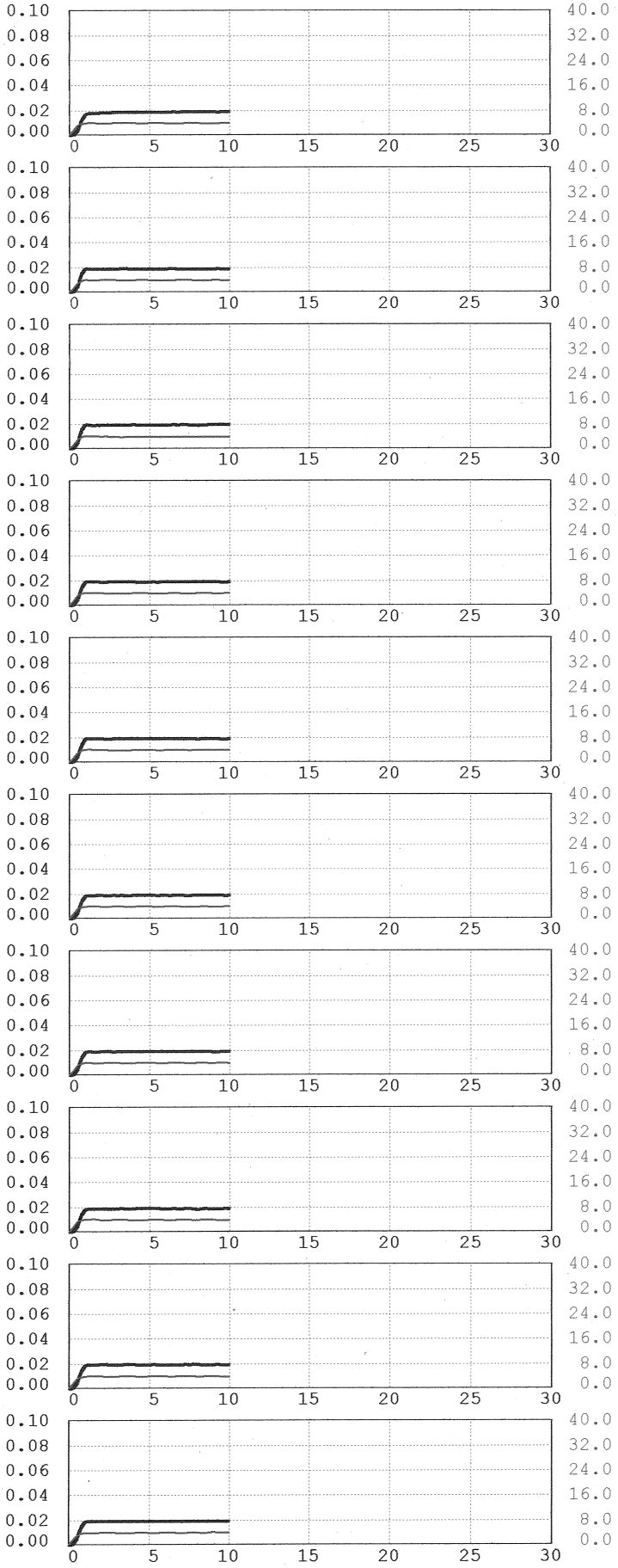
Date: 11/30/2009
Time: 14:41:43

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	14:42
CALIBRATION CHECK	PASSED	14:42
SIMULATOR VAPOR	0.019	14:43
SIMULATOR VAPOR	0.019	14:44
SIMULATOR VAPOR	0.019	14:45
SIMULATOR VAPOR	0.019	14:45
SIMULATOR VAPOR	0.019	14:46
SIMULATOR VAPOR	0.019	14:47
SIMULATOR VAPOR	0.019	14:48
SIMULATOR VAPOR	0.019	14:49
SIMULATOR VAPOR	0.019	14:50
SIMULATOR VAPOR	0.019	14:51
BLANK TEST	0.000	14:52

Average = 0.019
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

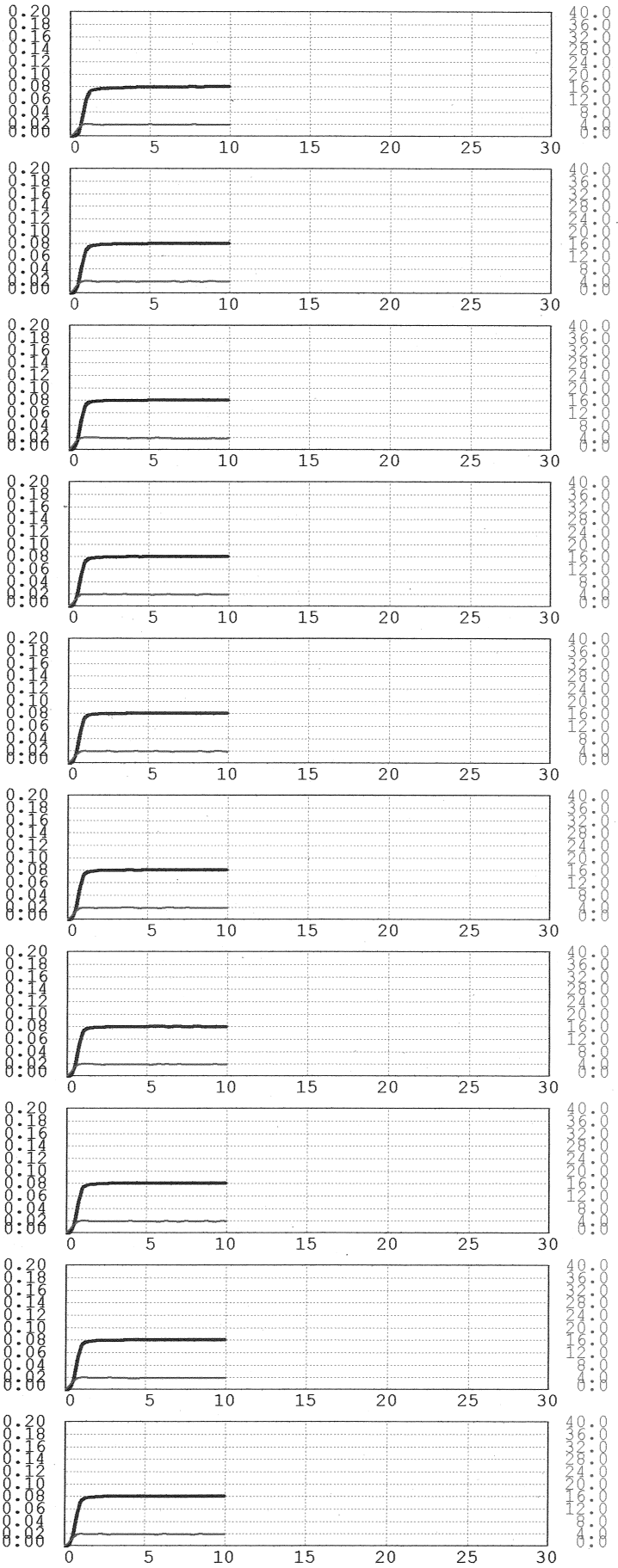
Date: 11/30/2009
Time: 14:54:26

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	14:55
CALIBRATION CHECK	PASSED	14:55
SIMULATOR VAPOR	0.080	14:55
SIMULATOR VAPOR	0.080	14:56
SIMULATOR VAPOR	0.080	14:57
SIMULATOR VAPOR	0.080	14:58
SIMULATOR VAPOR	0.080	14:59
SIMULATOR VAPOR	0.080	15:00
SIMULATOR VAPOR	0.079	15:01
SIMULATOR VAPOR	0.080	15:02
SIMULATOR VAPOR	0.080	15:03
SIMULATOR VAPOR	0.080	15:04
BLANK TEST	0.000	15:05

Average = 0.079
Std Dev = 0.0003



Section 5: Interference

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

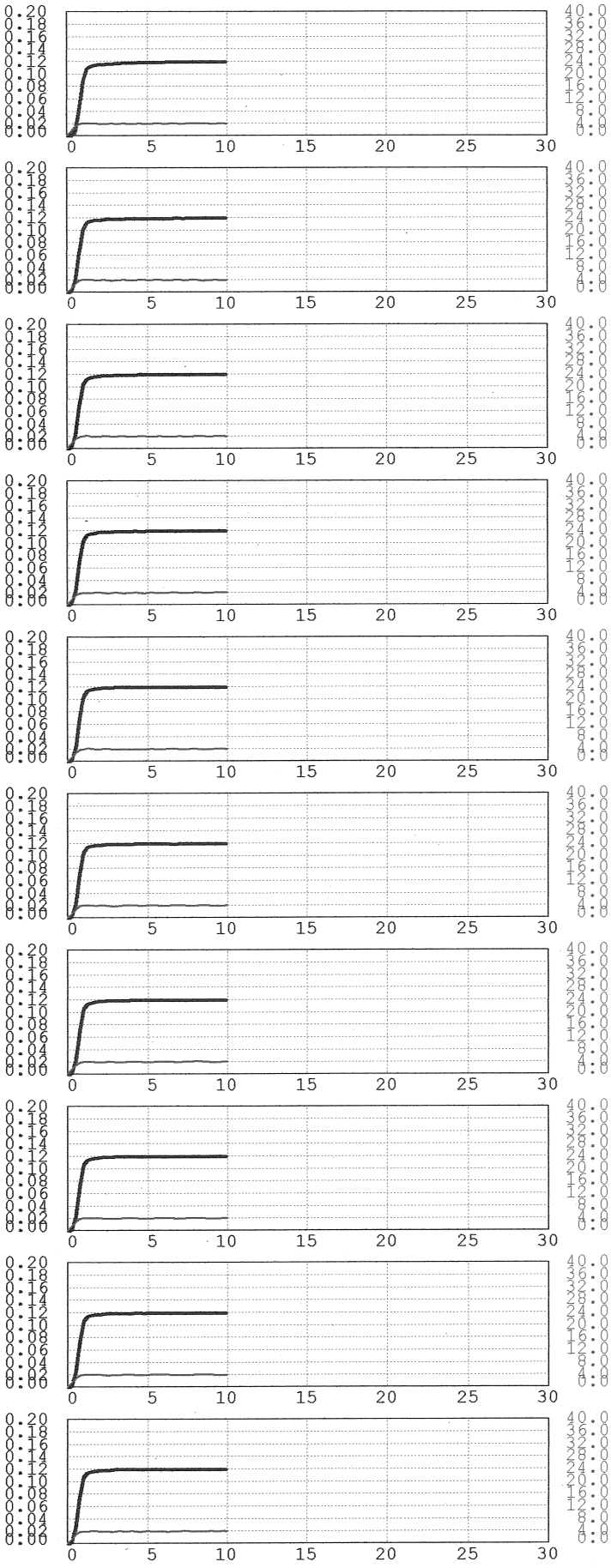
Date: 10/28/2009
Time: 09:51:07

SUPERVISOR NAME: ALB .04MEOH IN .08ETOH

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

BLANK TEST	0.000	09:52
CALIBRATION CHECK	PASSED	09:52
SIMULATOR VAPOR	INTERFERENCE	09:52
SIMULATOR VAPOR	INTERFERENCE	09:53
SIMULATOR VAPOR	INTERFERENCE	09:54
SIMULATOR VAPOR	INTERFERENCE	09:55
SIMULATOR VAPOR	INTERFERENCE	09:56
SIMULATOR VAPOR	INTERFERENCE	09:57
SIMULATOR VAPOR	INTERFERENCE	09:58
SIMULATOR VAPOR	INTERFERENCE	09:59
SIMULATOR VAPOR	INTERFERENCE	10:00
SIMULATOR VAPOR	INTERFERENCE	10:01
BLANK TEST	0.000	10:02

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

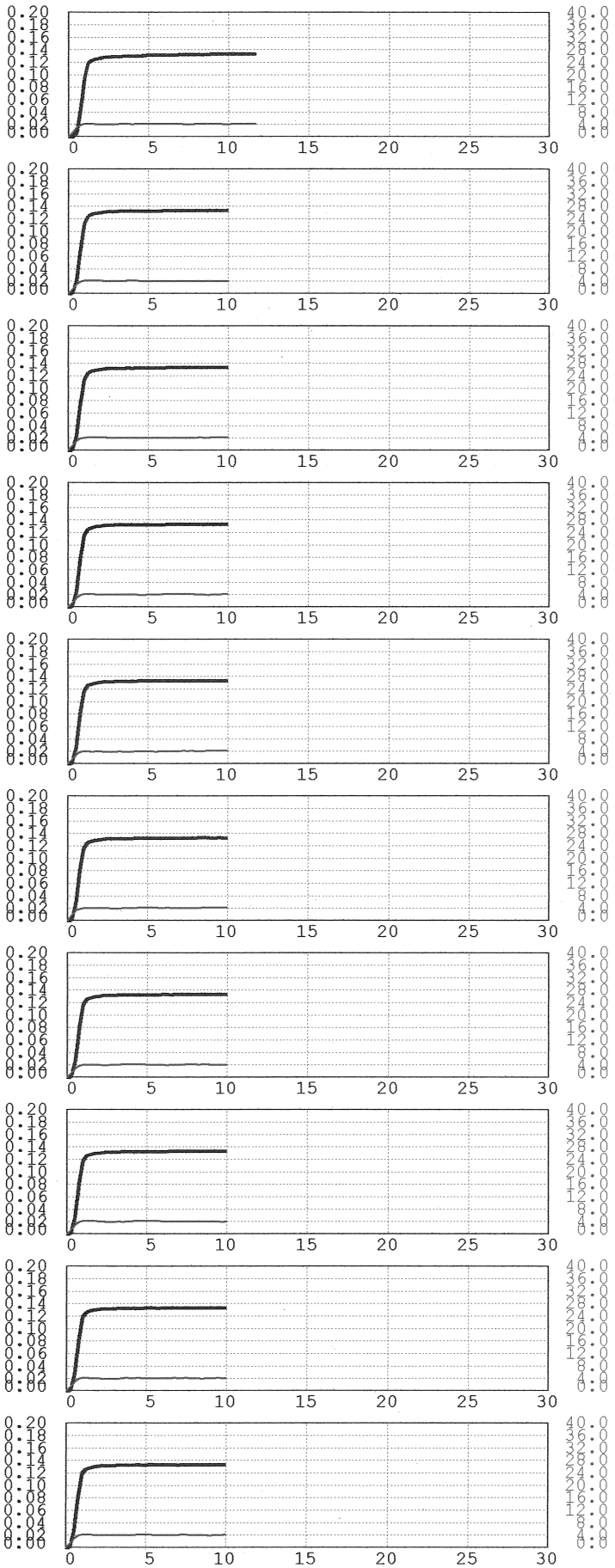
Date: 10/28/2009
Time: 10:07:44

SUPERVISOR NAME: ALB .04IPA IN .08ETOH

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

BLANK TEST	0.000	10:08
CALIBRATION CHECK	PASSED	10:08
SIMULATOR VAPOR	INTERFERENCE	10:09
SIMULATOR VAPOR	INTERFERENCE	10:10
SIMULATOR VAPOR	INTERFERENCE	10:11
SIMULATOR VAPOR	INTERFERENCE	10:12
SIMULATOR VAPOR	INTERFERENCE	10:13
SIMULATOR VAPOR	INTERFERENCE	10:14
SIMULATOR VAPOR	INTERFERENCE	10:15
SIMULATOR VAPOR	INTERFERENCE	10:16
SIMULATOR VAPOR	INTERFERENCE	10:17
SIMULATOR VAPOR	INTERFERENCE	10:18
BLANK TEST	0.000	10:19

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

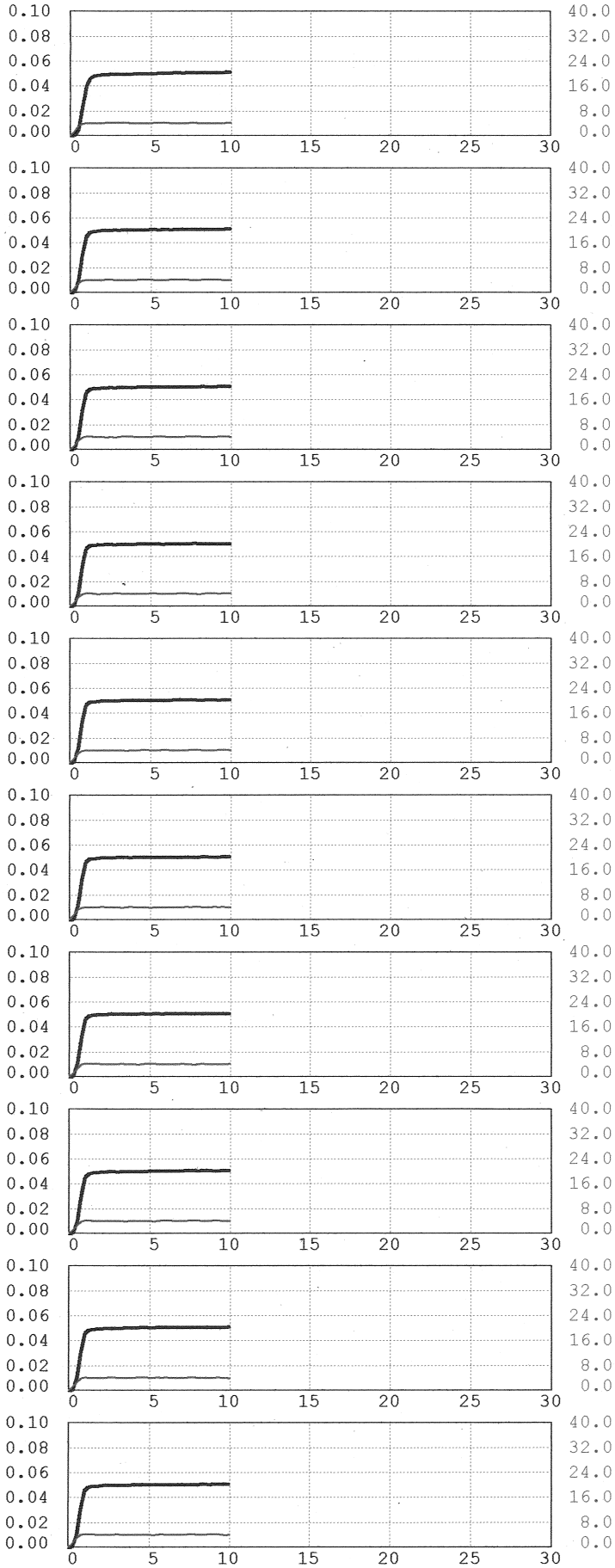
Date: 10/28/2009
Time: 10:24:01

SUPERVISOR NAME: ALB .01ACETONE IN .04ETOH

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

BLANK TEST	0.000	10:24
CALIBRATION CHECK	PASSED	10:25
SIMULATOR VAPOR	INTERFERENCE	10:25
SIMULATOR VAPOR	INTERFERENCE	10:26
SIMULATOR VAPOR	INTERFERENCE	10:27
SIMULATOR VAPOR	INTERFERENCE	10:28
SIMULATOR VAPOR	INTERFERENCE	10:29
SIMULATOR VAPOR	INTERFERENCE	10:30
SIMULATOR VAPOR	INTERFERENCE	10:31
SIMULATOR VAPOR	INTERFERENCE	10:33
SIMULATOR VAPOR	INTERFERENCE	10:34
SIMULATOR VAPOR	INTERFERENCE	10:35
BLANK TEST	0.000	10:36

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

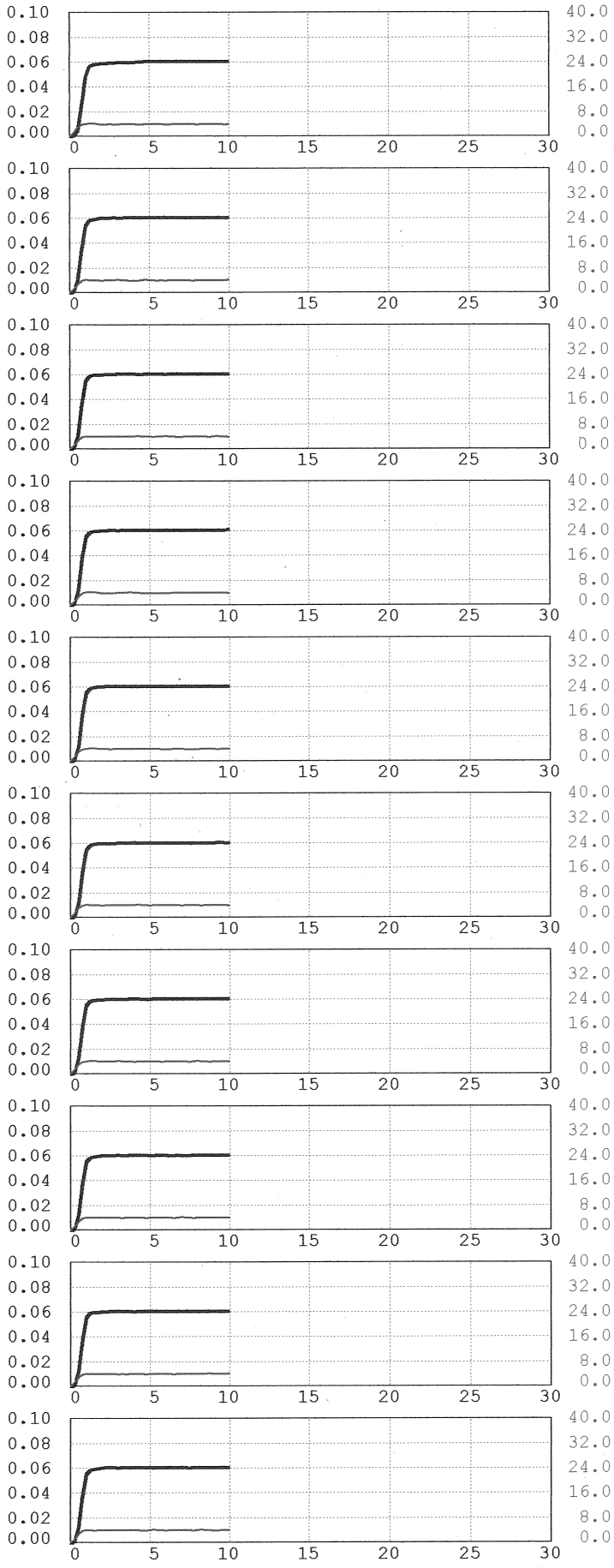
Date: 10/28/2009
Time: 10:50:00

SUPERVISOR NAME: ALB .02ACETONE IN .04ETOH

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

BLANK TEST	0.000	10:50
CALIBRATION CHECK	PASSED	10:51
SIMULATOR VAPOR	INTERFERENCE	10:51
SIMULATOR VAPOR	INTERFERENCE	10:52
SIMULATOR VAPOR	INTERFERENCE	10:53
SIMULATOR VAPOR	INTERFERENCE	10:54
SIMULATOR VAPOR	INTERFERENCE	10:55
SIMULATOR VAPOR	INTERFERENCE	10:56
SIMULATOR VAPOR	INTERFERENCE	10:57
SIMULATOR VAPOR	INTERFERENCE	10:58
SIMULATOR VAPOR	INTERFERENCE	10:59
SIMULATOR VAPOR	INTERFERENCE	11:00
BLANK TEST	0.000	11:01

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

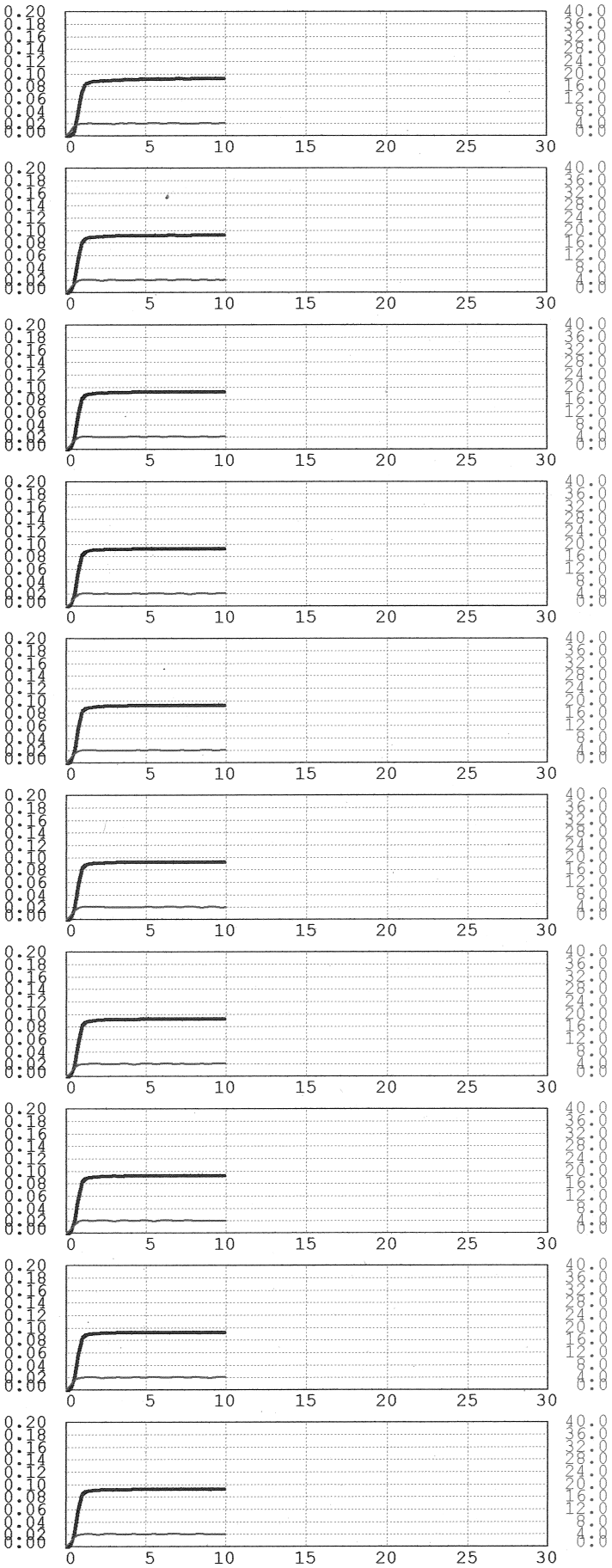
Date: 10/28/2009
Time: 11:16:29

SUPERVISOR NAME: ALB .02ACETONE IN .08ETOH

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

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

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

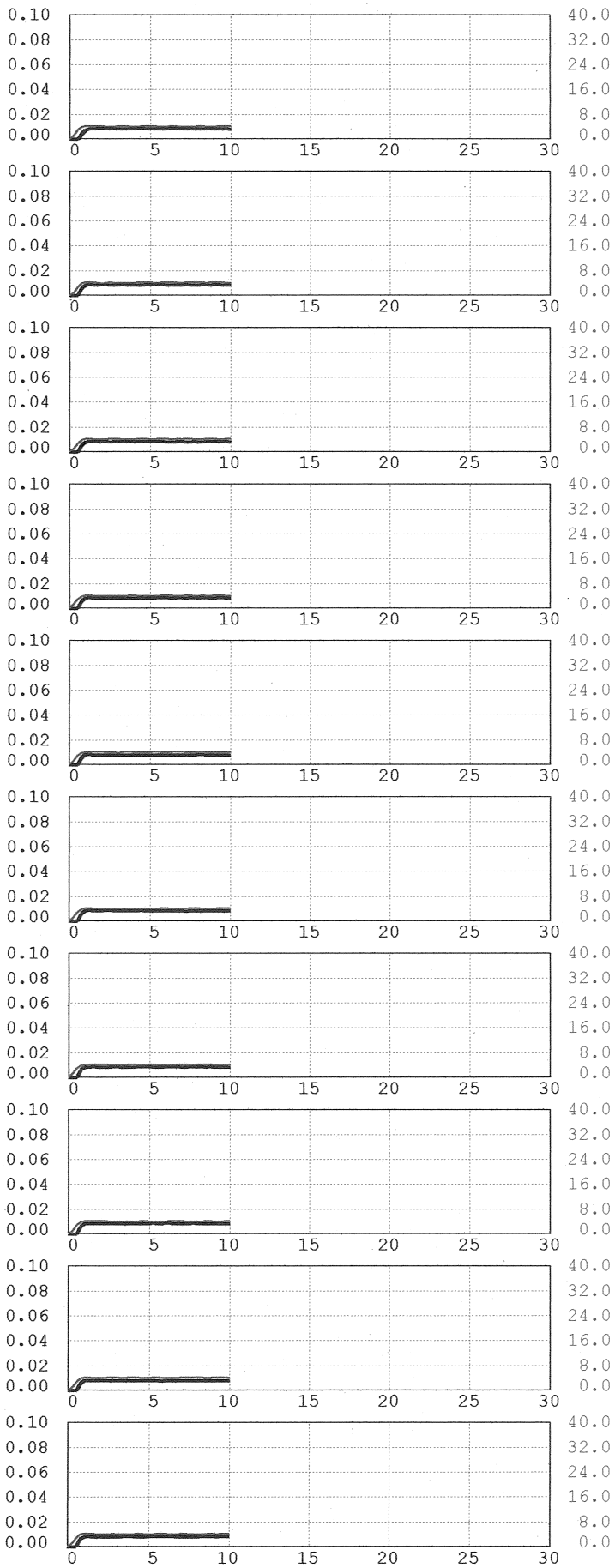
Date: 10/28/2009
Time: 12:18:30

SUPERVISOR NAME: ALB .02ACETONE IN H2O

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

BLANK TEST	0.000	12:19
CALIBRATION CHECK	PASSED	12:19
SIMULATOR VAPOR	INTERFERENCE	12:19
SIMULATOR VAPOR	INTERFERENCE	12:20
SIMULATOR VAPOR	INTERFERENCE	12:21
SIMULATOR VAPOR	INTERFERENCE	12:22
SIMULATOR VAPOR	INTERFERENCE	12:23
SIMULATOR VAPOR	INTERFERENCE	12:24
SIMULATOR VAPOR	INTERFERENCE	12:25
SIMULATOR VAPOR	INTERFERENCE	12:26
SIMULATOR VAPOR	INTERFERENCE	12:27
SIMULATOR VAPOR	INTERFERENCE	12:28
BLANK TEST	0.000	12:29

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

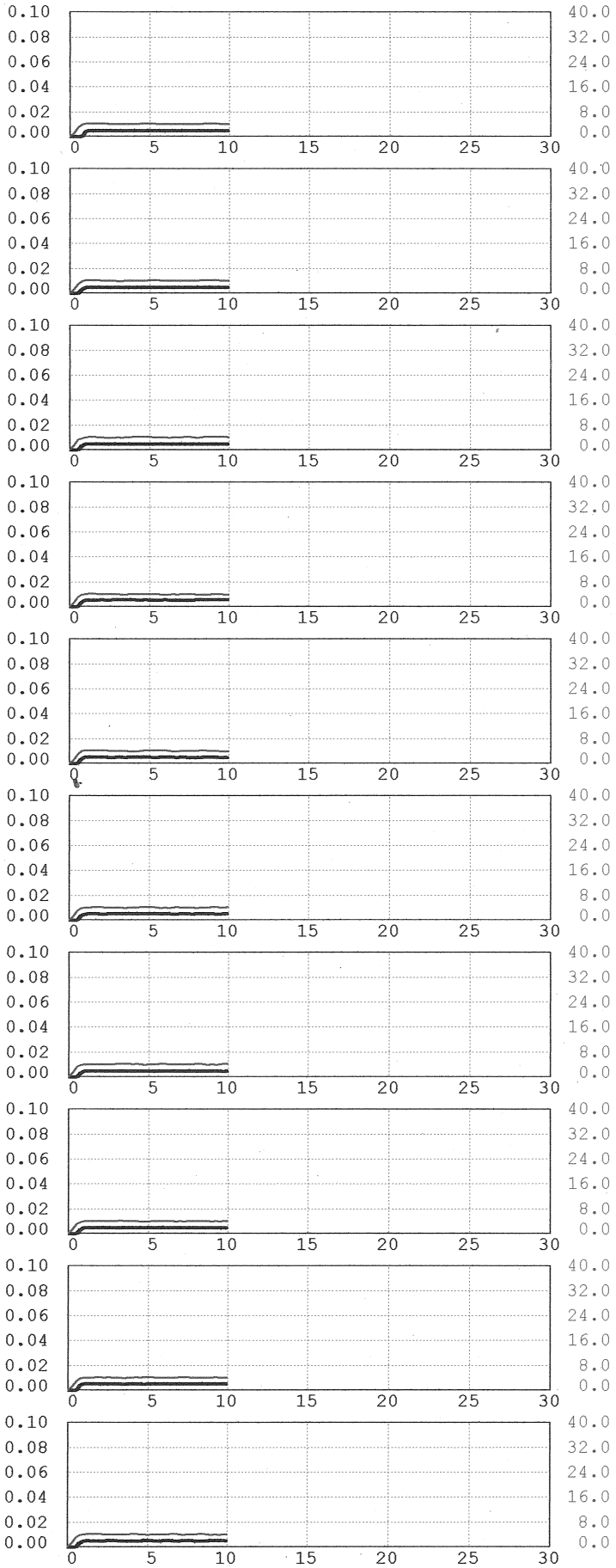
Date: 10/28/2009
Time: 13:26:22

SUPERVISOR NAME: ALB .01ACETONE IN H2O

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

BLANK TEST	0.000	13:27
CALIBRATION CHECK	PASSED	13:27
SIMULATOR VAPOR	INTERFERENCE	13:27
SIMULATOR VAPOR	INTERFERENCE	13:28
SIMULATOR VAPOR	INTERFERENCE	13:29
SIMULATOR VAPOR	INTERFERENCE	13:30
SIMULATOR VAPOR	INTERFERENCE	13:32
SIMULATOR VAPOR	INTERFERENCE	13:32
SIMULATOR VAPOR	INTERFERENCE	13:33
SIMULATOR VAPOR	INTERFERENCE	13:34
SIMULATOR VAPOR	INTERFERENCE	13:35
SIMULATOR VAPOR	INTERFERENCE	13:36
BLANK TEST	0.000	13:37

Average out of range!



Section 6: Low Level Accuracy

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103909

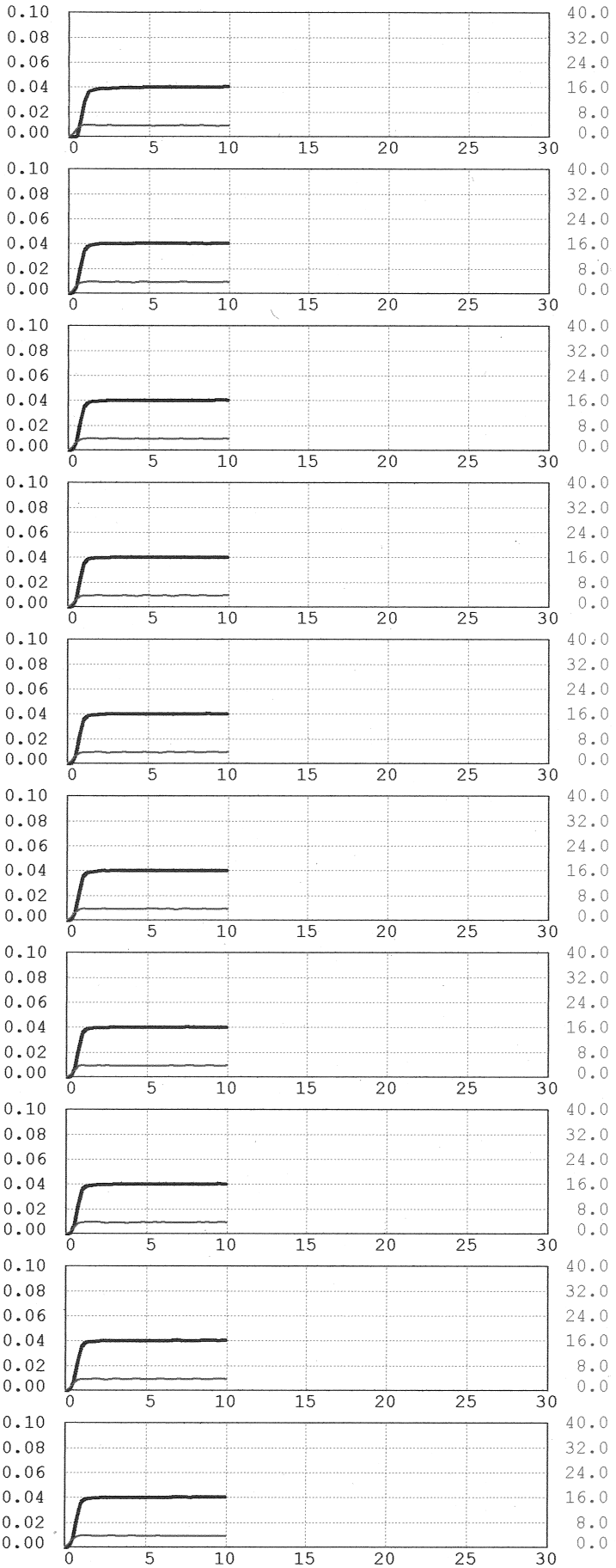
Date: 10/28/2009
Time: 11:43:36

SUPERVISOR NAME: ALB LOW LEVEL ETOH

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

BLANK TEST	0.000	11:44
CALIBRATION CHECK	PASSED	11:44
SIMULATOR VAPOR	0.040	11:44
SIMULATOR VAPOR	0.041	11:45
SIMULATOR VAPOR	0.040	11:46
SIMULATOR VAPOR	0.040	11:47
SIMULATOR VAPOR	0.040	11:48
SIMULATOR VAPOR	0.040	11:49
SIMULATOR VAPOR	0.041	11:50
SIMULATOR VAPOR	0.040	11:51
SIMULATOR VAPOR	0.040	11:52
SIMULATOR VAPOR	0.041	11:53
BLANK TEST	0.000	11:54

Average = 0.040
Std Dev = 0.0004



Section 7: Breath Volume

Operator	Date	Room Temp	Humidity
DMR	11/30/2009	74.5	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	1.91	1.92	1.94	1.84	1.93	1.82	1.89	1.93	1.91	1.86	1.899	4.143
	15		6	1.76	1.72	1.6	1.59	1.61	1.69	1.79	1.67	1.58	1.73	1.668	7.589
	22.5		4	1.67	1.76	1.58	1.82	1.87	1.9	1.93	1.91	1.68	1.86	1.791	11.98
2.5 L	10		15	2.93	3.06	2.94	2.91	3.01	3	2.93	3.05	3.01	2.89	2.982	6.019
	15		10	2.8	2.7	2.82	2.88	2.7	2.76	2.72	2.69	2.69	2.92	2.751	8.377
	25		6	2.87	2.9	2.76	2.6	2.8	2.63	2.94	2.96	2.67	2.63	2.792	13.77

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 .04IPA 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 .04IPA as an interferent 60% of the time on an A+P test. (N: NPAS was contacted regarding problem.

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_1 .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.