DATAMASTER DMT 103809

VERMONT DEPARTMENT OF HEALTH LABORATORY

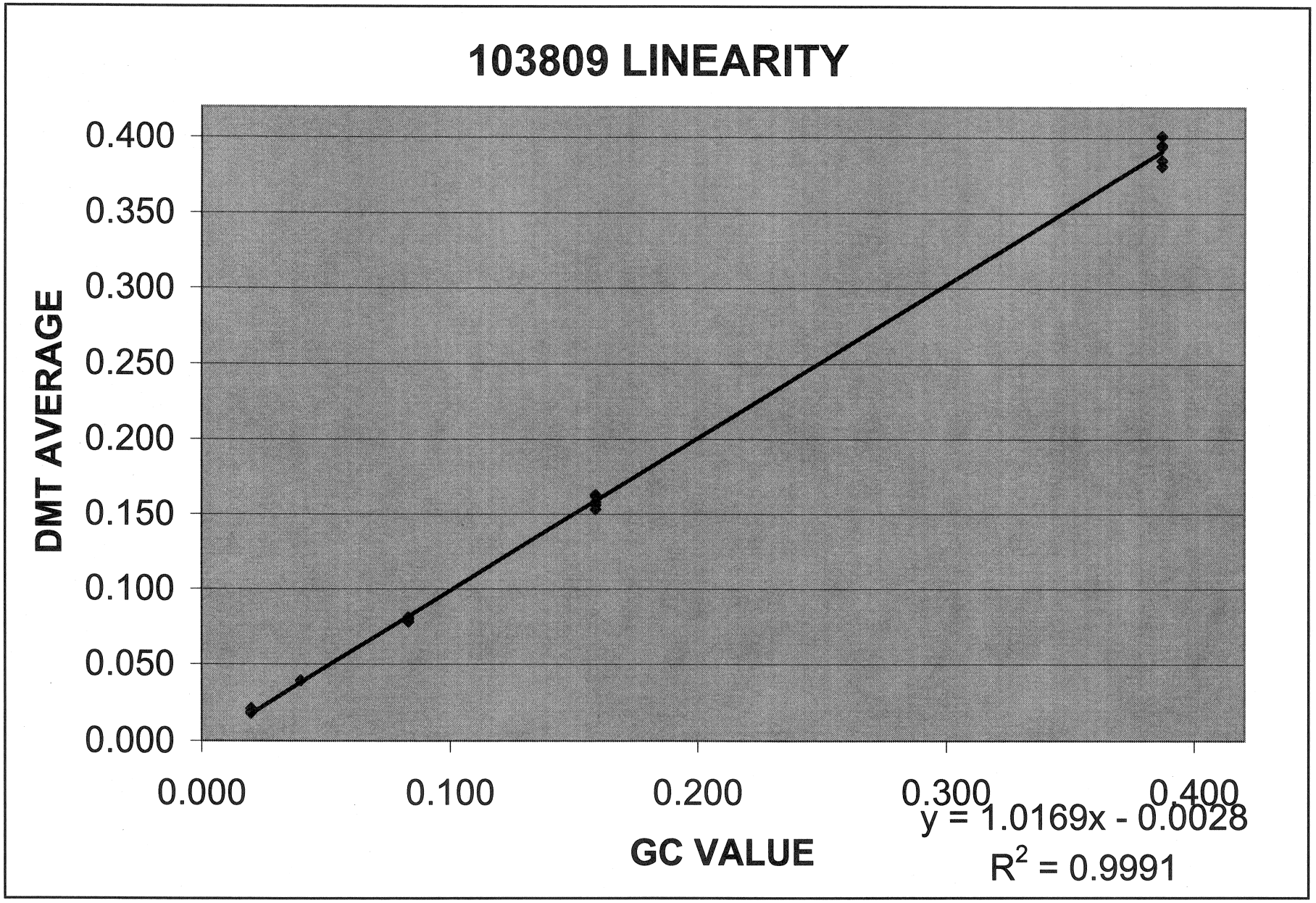
PERFORMANCE TESTING RESULTS

January 2010

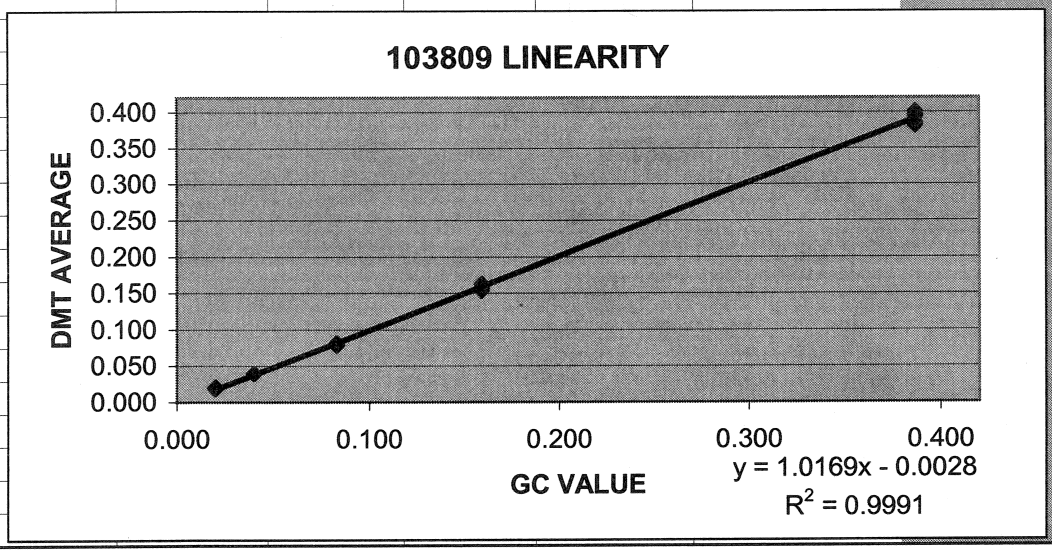
Table of Contents

Section 1: Results	1-1 Thru 1-4
Section 2: NPAS Tests	2-1 Thru 2-16
Section 3: Power-Up Test	3-1 Thru 3-10
Section 4: Linearity	4-1 Thru 4-26
Section 5: Interference	5-1 Thru 5-8
Section 6: Low Level Accuracy	6-1 Thru 6-2
Section 7: Breath Volume	7-1 Thru 7-2
Section 8: Software Testing	8-1 Thru 8-2
Section 9: Error Reports	9-1 Thru 9-2
Section 10: Live Subject Tests	10-1 Thru 10-2
Section 11: Communication Notes	11-1 Thru 11-3

Section 1: Results


103809 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 = 1.0169x - 0.0028
R2 = 0.9991

Operator	Date	Lot #	GC Value	DMT Result	Std Dev	% Recovery	
ALB	11/2/2009	10-13-020	0.020	0.019	0.0004	95.0	Outside 5%
		10-14-400	0.387	0.401	0.0006	103.6	Outside 10%
		09-38-160	0.159	0.163	0.0006	102.5	
		09-43-080	0.083	0.081	0.0003	97.6	
DMR	11/13/2009	09-43-080	0.083	0.078	0.0003	94.0	
		10-14-400	0.387	0.385	0.0012	99.5	
		09-38-160	0.159	0.156	0.0007	98.1	
		10-13-020	0.020	0.018	0.0004	90.0	
ALB	11/17/2009	09-43-080	0.083	0.078	0.0004	94.0	
		10-13-020	0.020	0.021	0.0022	105.0	
		09-38-160	0.159	0.153	0.0005	96.2	
		10-14-400	0.387	0.381	0.0014	98.4	
ALB	11/23/2009	10-13-020	0.020	0.019	0.0004	95.0	
		09-43-080	0.083	0.081	0.0000	97.6	
		09-38-160	0.159	0.162	0.0004	101.9	
		10-14-400	0.387	0.395	0.0004	102.1	
ALB	11/24/2009	10-14-400	0.387	0.394	0.0006	101.8	
		09-43-080	0.083	0.080	0.0003	96.4	
		09-38-160	0.159	0.158	0.0008	99.4	
		10-13-020	0.020	0.019	0.0005	95.0	
ALB	10/30/2009	09-27-040	0.040	0.039	0.0006	97.5	LOW LEVEL
				Average	0.0006	98.2	
				Std Dev	0.0005	3.84	
				Range	0.0000 - 0.0022	90.0 - 105.0	



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

103809
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.

9-21-09
Date

Technician

OPTIONS PRINT OUT

DataMaster DMT: 103809
Location: ADDISON COUNTY SO
Calibration Date: 09/21/2009
Certification Date: 09/21/2009
Installation Date: 09/21/2009

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: 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
```

CALIBRATION REPORT

DataMaster DMT: 103809
Calibration Date: 09/21/2009
Calibrated by: T T T
Lot: 87654

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.100000
CAL =  0.974193    0.800 <= CAL < 1.200
b1  =  0.000000    0.000 <=  b1 < 0.004
b2  =  0.003067    0.001 <=  b2 < 0.012
b3  =  0.000000    0.000 <=  b3 < 0.004
Xq  =  0.076944    0.050 <=  Xq < 0.200
a21 =  1.160088    1.050 <= a21 < 1.300
a31 =  0.494409    0.300 <= a31 < 0.800
```

Performed by _____ **Date** 09/21/2009

CERTIFICATION REPORT

DataMaster DMT: 103809
Calibration Date: 09/21/2009
Certification Date: 09/21/2009
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 = 49.15°C
Breath Tube = 47.03°C

SETTINGS
Lamp Voltage = 1.67 V
Cooler Voltage = 1.69 V
Bias Voltage = 80.7 V
Chopper Freq = 535.7 Hz

PUMP INFO
Flow Rate = 5.546 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.5345	0.5364
MIN(V)	0.5317	0.5345

FILTER INFO
Filter 1 0.536 Zero = true
Filter 2 0.701 Zero = true
Filter 3 0.427 Zero = true

CALIBRATION CHECK
Xq = 0.0765 0.57%

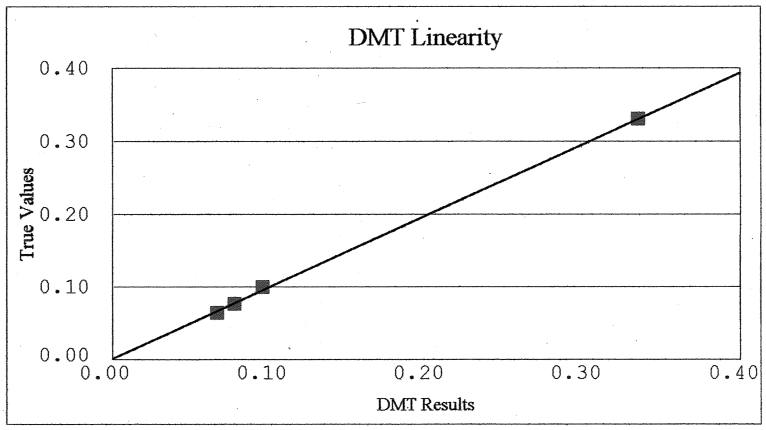
Options

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
0.065 g/210L Lot # 0987RE5	0.067 g/210L	0.001
0.077 g/210L Lot # 765438765	0.078 g/210L	0.000
0.100 g/210L Lot # 765478987	0.096 g/210L	0.001
0.330 g/210L Lot # 987545678	0.335 g/210L	0.001

$R^2 = 0.9995$



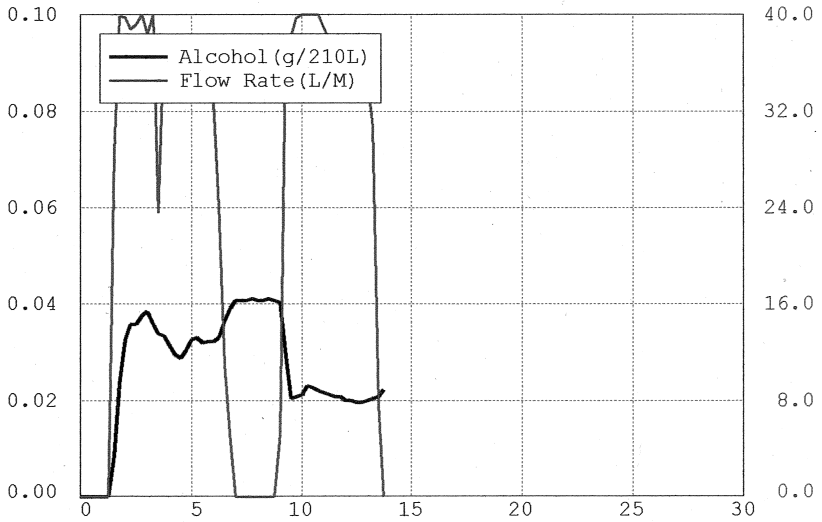
Acetone Interference Test

Lot # 8765E5

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

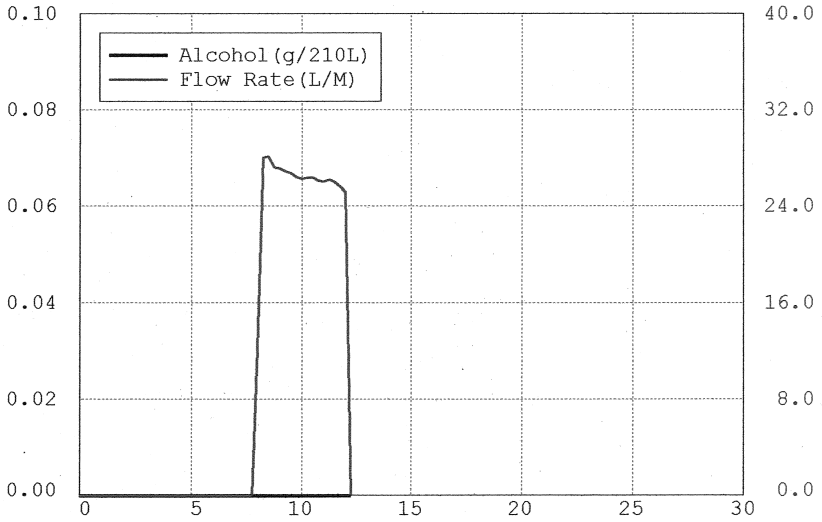


RF Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ **Date** 09/21/2009

Reviewed by _____ **Date** _____

INSTALLATION REPORT

DataMaster DMT: 103809
Location: ADDISON COUNTY SO
Calibration Date: 09/21/2009
Certification Date: 09/21/2009
Installation Date: 09/21/2009
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 = 49.03°C
Breath Tube = 47.15°C

SETTINGS
Lamp Voltage = 1.67 V
Cooler Voltage = 1.69 V
Bias Voltage = 80.7 V
Chopper Freq = 534.7 Hz

PUMP INFO
Flow Rate = 5.745 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.5536	0.5545
MIN(V)	0.5510	0.5528

FILTER INFO
Filter 1 0.553 Zero = true
Filter 2 0.718 Zero = true
Filter 3 0.457 Zero = true

CALIBRATION CHECK
Xq = 0.0772 0.45%

INSTALLATION PASSED

Accuracy and Precision Check

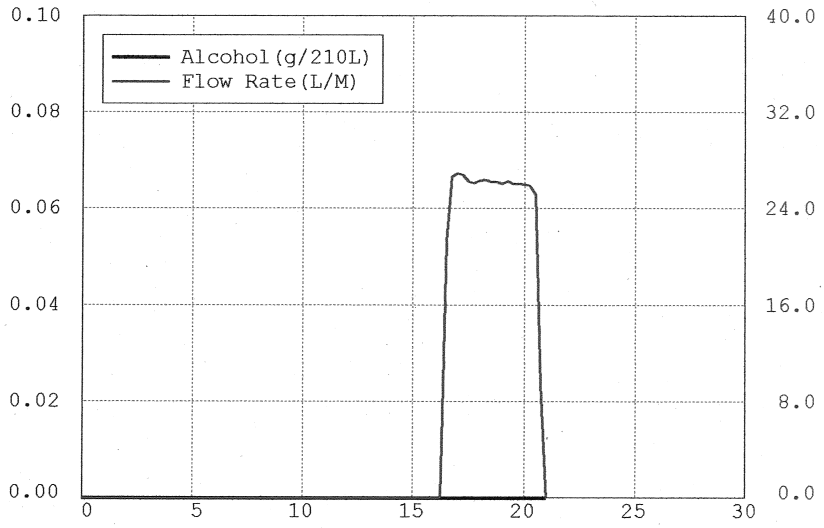
Concentration = 0.080 g/210L
Lot # = 09876543
Average = 0.078 g/210L
Std Dev = 0.001

RFI Interference Test

RFI detected

Sample Acceptance Test

Passed



Performed by _____ **Date** 09/21/2009

Reviewed by _____ **Date** _____

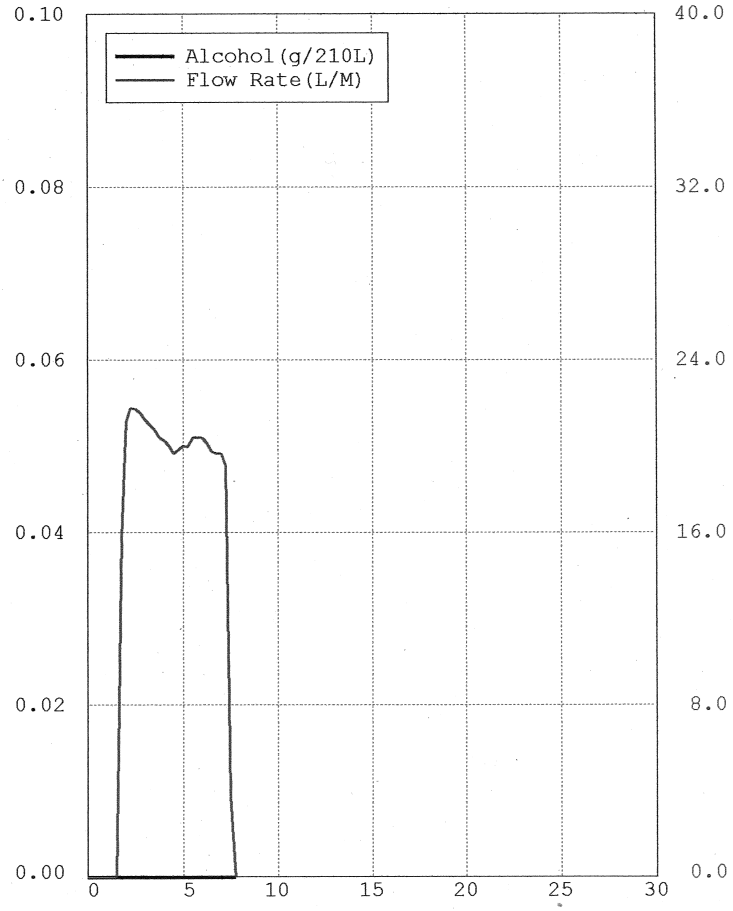
DUI Subject Test

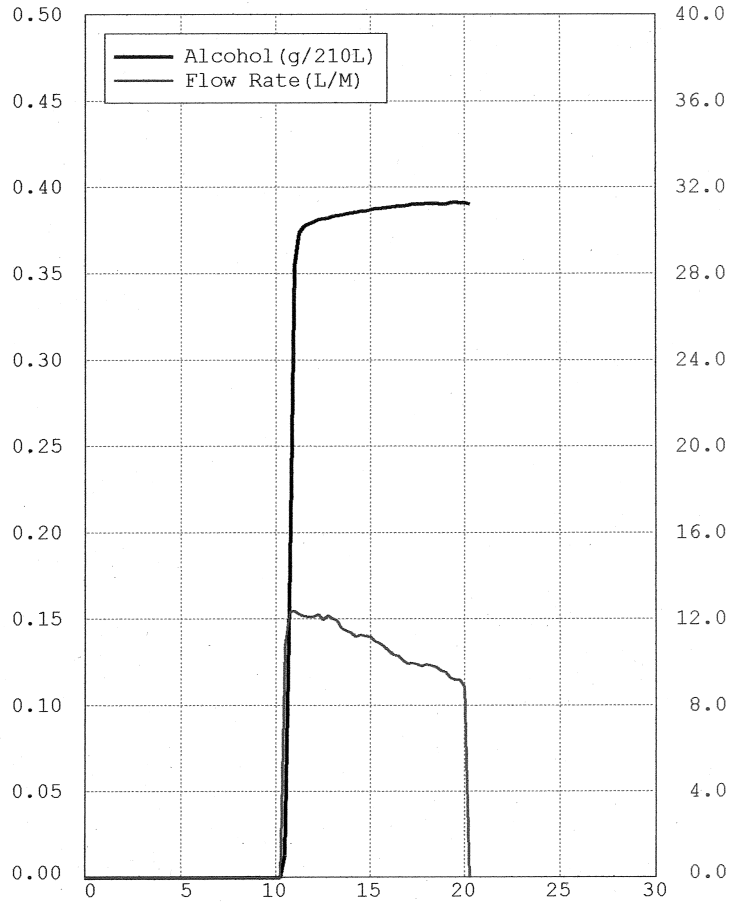
STATE OF VERMONT

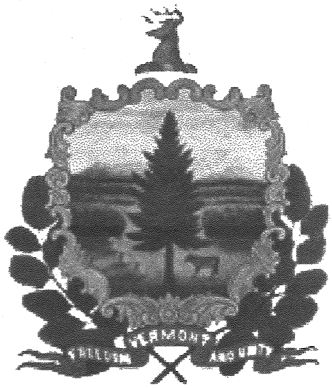
DataMaster DMT: 103809
ADDISON COUNTY SO
Certification Date: 09/21/2009
Installation Date: 09/21/2009

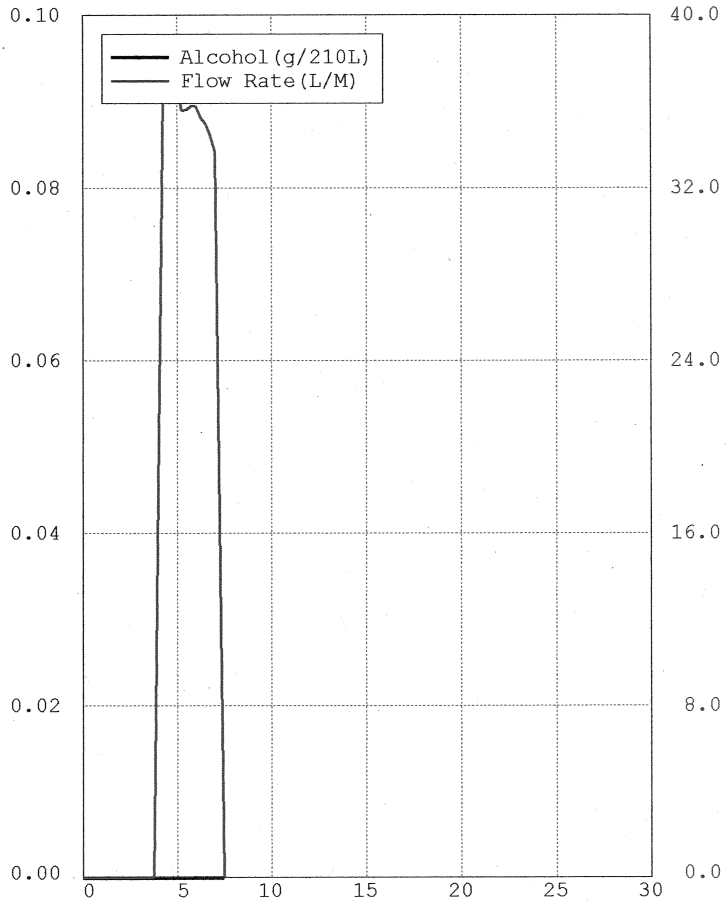
Date: 09/23/2009
Time: 04:44:58

Obs. Period Start:		04:44
BLANK TEST	0.000	04:45
CALIBRATION CHECK	PASSED	04:46
Xq = 0.0774 (0.67%)		
SUBJECT SAMPLE (Vol=1.9L)	0.000	04:46
X[1] = 0.0000 (-0.0007) (0.0000)		
BLANK TEST	0.000	04:47
CALIBRATION CHECK	PASSED	04:47
Xq = 0.0771 (0.22%)		
SUBJECT SAMPLE (Vol=1.7L)	0.391	04:47
X[1] = 0.3913 (-0.0013) (-0.0004)		









Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 103809
ADDISON COUNTY SO
Certification Date: 09/21/2009
Installation Date: 09/21/2009

Date: 09/21/2009
Time: 15:26:37

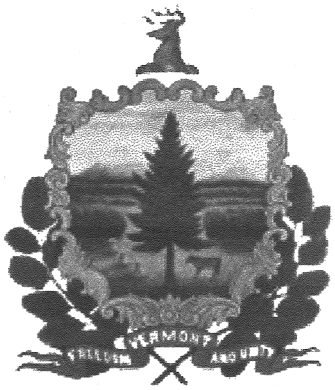
Subject Name: T T T
Date of Birth: 09/09/2000 Age: 9
Guardian Present: N
Gender: M
License #:

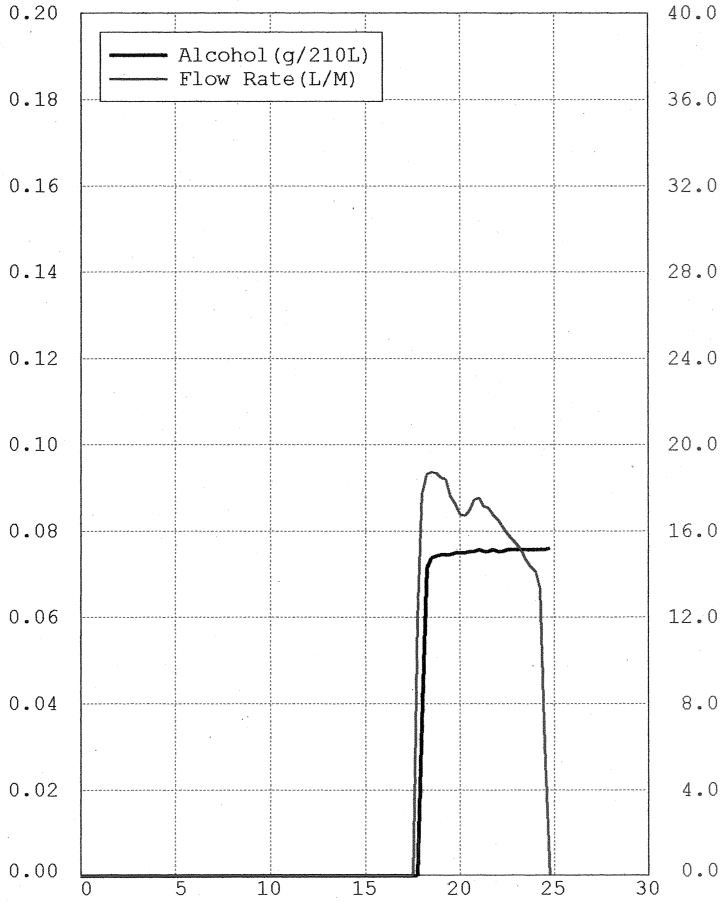
Test Operator Name: UYTR U UYTR
Agency: ADDISON COUNTY SO

BLANK TEST	0.000	15:27
CALIBRATION CHECK	PASSED	15:27
Xq = 0.0780 (1.46%)		
SIMULATOR VAPOR	0.078	15:28
X[1] = 0.0789 (-0.0001) (0.0013)		
BLANK TEST	0.000	15:28
SUBJECT SAMPLE (Vol=1.9L)	0.000	15:28
X[1] = 0.0000 (-0.0001) (0.0000)		

All alcohol values reported in g/210L

Sim. Vapor Concentration	0.080
Sim. Vapor Range	0.075 - 0.085





Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 103809
ADDISON COUNTY SO
Certification Date: 09/21/2009
Installation Date: 09/21/2009

Date: 09/21/2009
Time: 15:31:32

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	15:32
CALIBRATION CHECK	PASSED	15:32
Xq = 0.0772 (0.34%)		
SIMULATOR VAPOR	0.078	15:32
X[1] = 0.0787 (-0.0001) (0.0020)		
BLANK TEST	0.000	15:33
SUBJECT SAMPLE (Vol=1.8L)	0.076	15:34
X[1] = 0.0767 (-0.0013) (0.0017)		

All alcohol values reported in g/210L
Sim. Vapor Concentration 0.080
Sim. Vapor Range 0.075 - 0.085

Check-In Confirmation Test

STATE OF VERMONT

DataMaster DMT: 103809
ADDISON COUNTY SO
Certification Date: 09/21/2009
Installation Date: 09/21/2009

Date: 09/23/2009
Time: 04:44:31

USER ABORT

All alcohol values reported in g/210L

Sim. Vapor Concentration	0.080
Sim. Vapor Range	0.075 - 0.085

DIAGNOSTIC RESULT

DataMaster DMT: 103809
Location:
Calibration Date: 09/21/2009
Certification Date:
Installation Date:
Test Date: 09/21/2009
Time: 13:41

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    = 46.80°C

SETTINGS
Lamp Voltage   = 1.67 V
Cooler Voltage = 1.69 V
Bias Voltage   = 80.7 V
Chopper Freq   = 535.3 Hz

PUMP INFO
Flow Rate = 5.548 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.5341   0.5360
MIN(V)   0.5313   0.5339

FILTER INFO
Filter 1  0.533  Zero = true
Filter 2  0.700  Zero = true
Filter 3  0.426  Zero = true

CALIBRATION CHECK
Xq = 0.0767  0.23%
```

DIAGNOSTIC RESULT

DataMaster DMT: 103809
Location: ADDISON COUNTY SO
Calibration Date: 09/21/2009
Certification Date: 09/21/2009
Installation Date: 09/21/2009
Test Date: 09/23/2009
Time: 04:49

VERMONT
DEPARTMENT OF HEALTH

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

TEMPERATURES
Sample Chamber = 48.74°C
Breath Tube    = 47.04°C

SETTINGS
Lamp Voltage   = 1.67 V
Cooler Voltage = 1.69 V
Bias Voltage   = 80.7 V
Chopper Freq   = 535.7 Hz

PUMP INFO
Flow Rate = 5.695 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.5500   0.5469
MIN(V)   0.5412   0.5437

FILTER INFO
Filter 1  0.545  Zero = true
Filter 2  0.712  Zero = true
Filter 3  0.436  Zero = true

CALIBRATION CHECK
Xq = 0.0772  0.34%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

Date: 09/22/2009
Time: 15:17:07

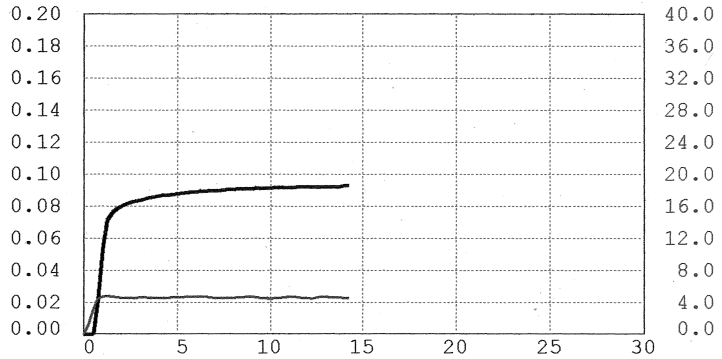
SUPERVISOR NAME: J M K

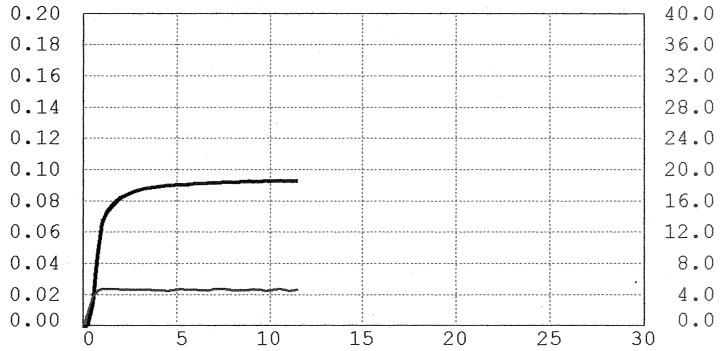
SOLUTION LOT #: 1234567890
SOLUTION CONCENTRATION: 0.100

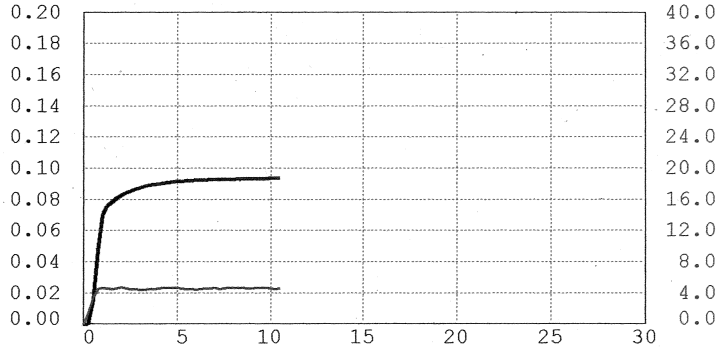
BLANK TEST	0.000	15:18
CALIBRATION CHECK	PASSED	15:18
Xq = 0.0772 (0.34%)		
SIMULATOR VAPOR	0.093	15:18
X[1] = 0.0938 (-0.0004) (-0.0018)		
SIMULATOR VAPOR	0.093	15:19
X[1] = 0.0939 (-0.0005) (-0.0014)		
SIMULATOR VAPOR	0.094	15:20
X[1] = 0.0943 (-0.0011) (-0.0018)		
SIMULATOR VAPOR	0.094	15:21
X[1] = 0.0948 (-0.0013) (-0.0013)		
SIMULATOR VAPOR	0.095	15:22
X[1] = 0.0958 (-0.0007) (-0.0013)		
BLANK TEST	0.001	15:23

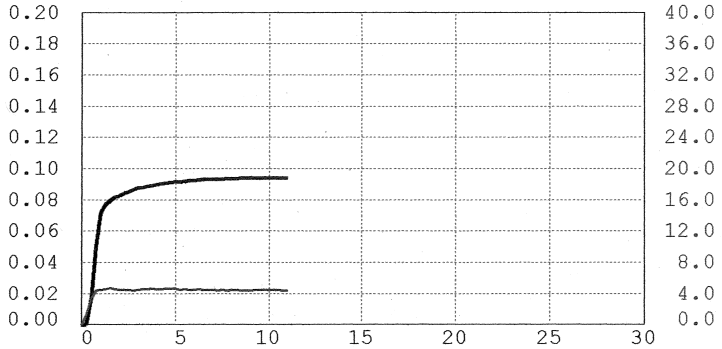
Average out of range!

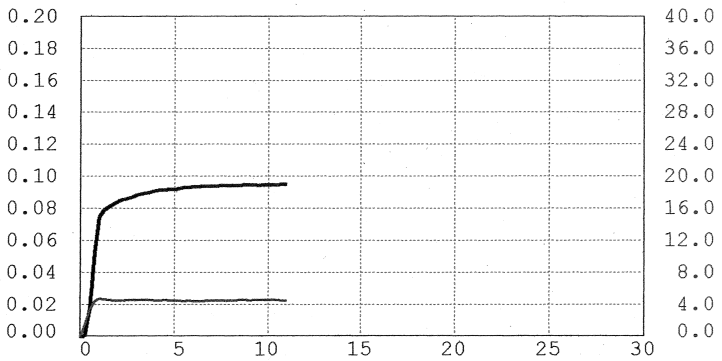
Average = 0.093
Std Dev = 0.0008











ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

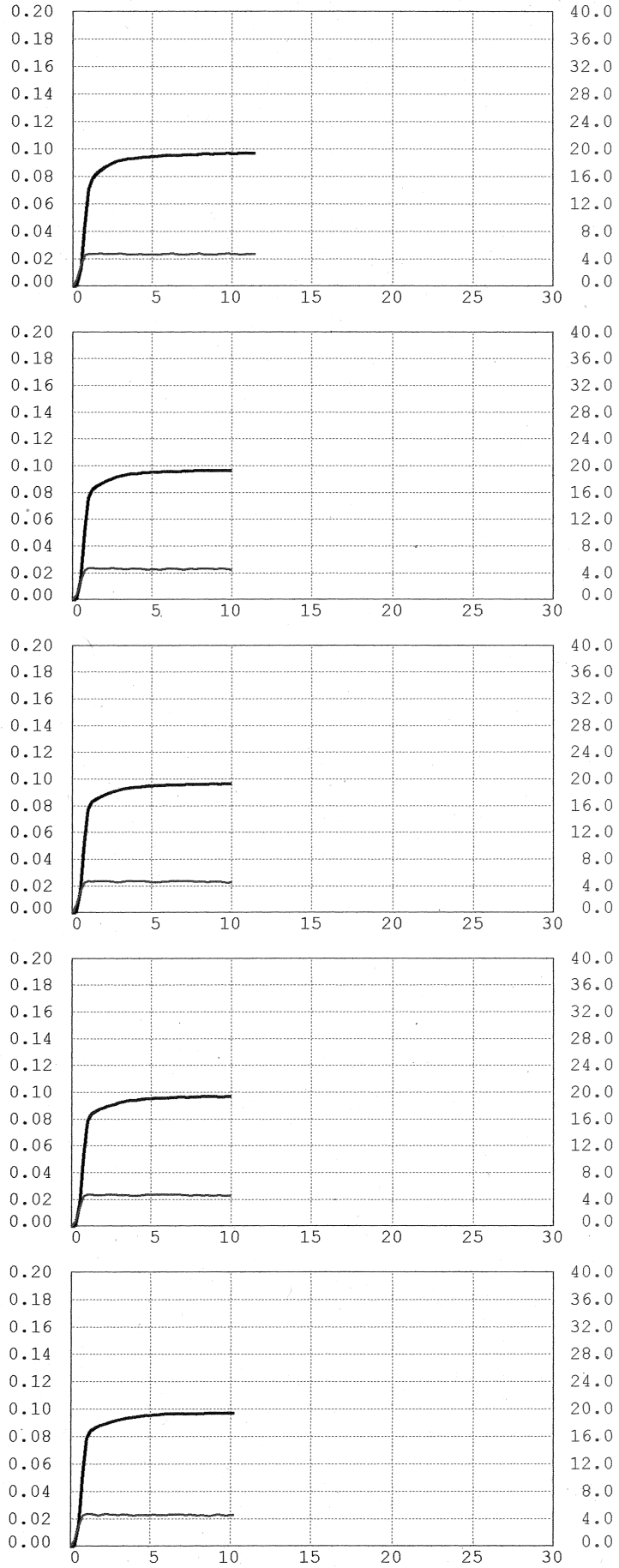
Date: 09/22/2009
Time: 15:40:58

SUPERVISOR NAME: T T T

SOLUTION LOT #: 98765
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	15:41
CALIBRATION CHECK	PASSED	15:42
Xq = 0.0776 (0.90%)		
SIMULATOR VAPOR	0.097	15:42
X[1] = 0.0976 (-0.0003) (-0.0007)		
SIMULATOR VAPOR	0.097	15:43
X[1] = 0.0974 (-0.0003) (-0.0005)		
SIMULATOR VAPOR	0.097	15:44
X[1] = 0.0972 (-0.0006) (-0.0010)		
SIMULATOR VAPOR	0.097	15:45
X[1] = 0.0974 (-0.0005) (-0.0008)		
SIMULATOR VAPOR	0.098	15:46
X[1] = 0.0982 (-0.0003) (-0.0008)		
BLANK TEST	0.000	15:47

Average = 0.097
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

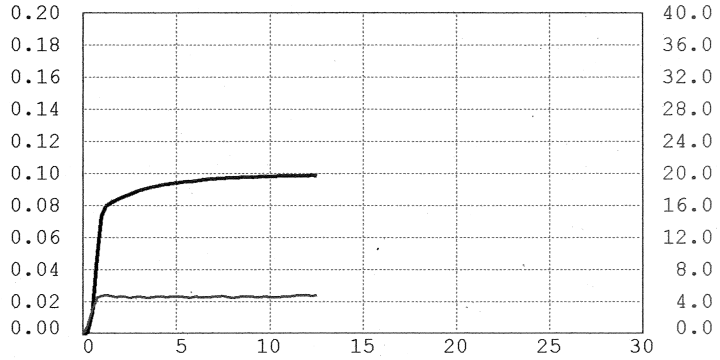
Date: 09/22/2009
Time: 15:49:07

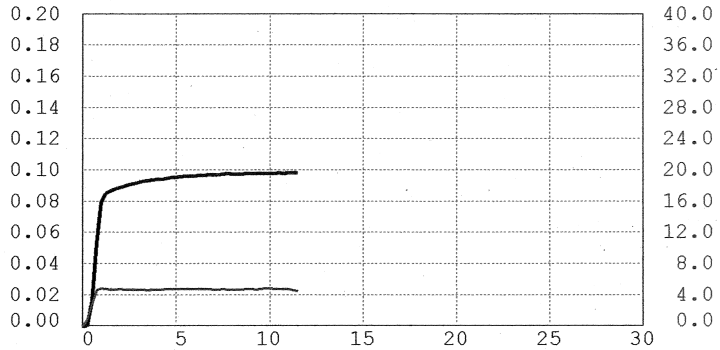
SUPERVISOR NAME: T T T

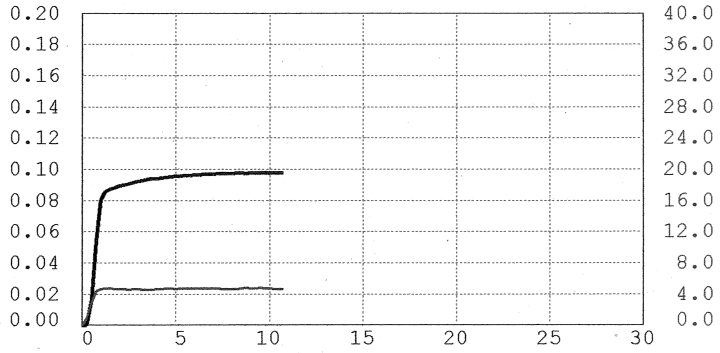
SOLUTION LOT #: JU
SOLUTION CONCENTRATION: 0.100

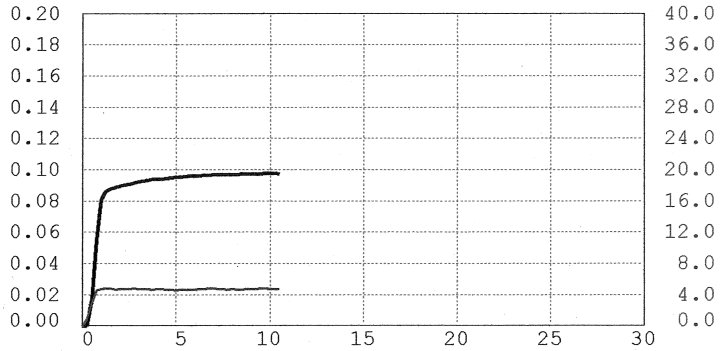
BLANK TEST	0.000	15:50
CALIBRATION CHECK	PASSED	15:50
Xq = 0.0771 (0.22%)		
SIMULATOR VAPOR	0.099	15:50
X[1] = 0.0991 (0.0004) (-0.0006)		
SIMULATOR VAPOR	0.098	15:51
X[1] = 0.0985 (-0.0003) (-0.0004)		
SIMULATOR VAPOR	0.098	15:52
X[1] = 0.0984 (-0.0006) (0.0000)		
SIMULATOR VAPOR	0.098	15:53
X[1] = 0.0982 (-0.0003) (-0.0003)		
SIMULATOR VAPOR	0.099	15:54
X[1] = 0.0994 (0.0001) (-0.0003)		
BLANK TEST	0.000	15:55

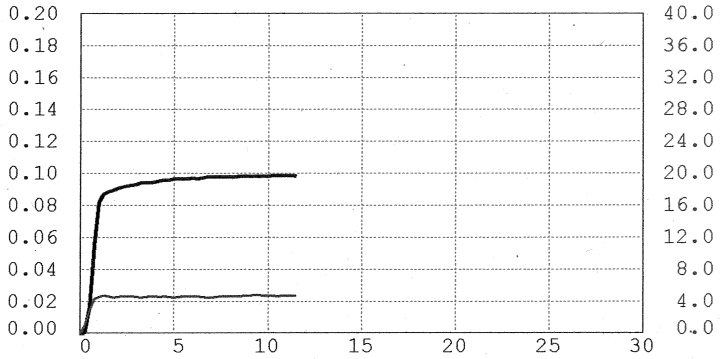
Average = 0.098
Std Dev = 0.0005











Section 3: Power-Up Tests

CALIBRATION REPORT

DataMaster DMT: 103809
Calibration Date: 10/20/2009
Calibrated by: A L B
Lot: 10-02-100

VERMONT
DEPARTMENT OF HEALTH

Ca =	0.101000		
CAL =	1.020516	0.800 <= CAL	< 1.200
b1 =	0.000000	0.000 <= b1	< 0.004
b2 =	0.003271	0.001 <= b2	< 0.012
b3 =	0.000000	0.000 <= b3	< 0.004
Xq =	0.076422	0.050 <= Xq	< 0.200
a21 =	1.174806	1.050 <= a21	< 1.300
a31 =	0.476862	0.300 <= a31	< 0.800

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

CERTIFICATION REPORT

DataMaster DMT: 103809
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 2.06
Modem 1.06
Questions 1.00
Reports 1.02

TEMPERATURES
Sample Chamber = 48.97°C
Breath Tube = 48.07°C

SETTINGS
Lamp Voltage = 1.72 V
Cooler Voltage = 1.71 V
Bias Voltage = 80.7 V
Chopper Freq = 539.2 Hz

PUMP INFO
Flow Rate = 5.757 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0295	0.0319
MIN(V)	0.0274	0.0303

FILTER INFO
Filter 1 0.031 Zero = true
Filter 2 0.208 Zero = true
Filter 3 -0.067 Zero = true

CALIBRATION CHECK
Xq = 0.0763 0.11%

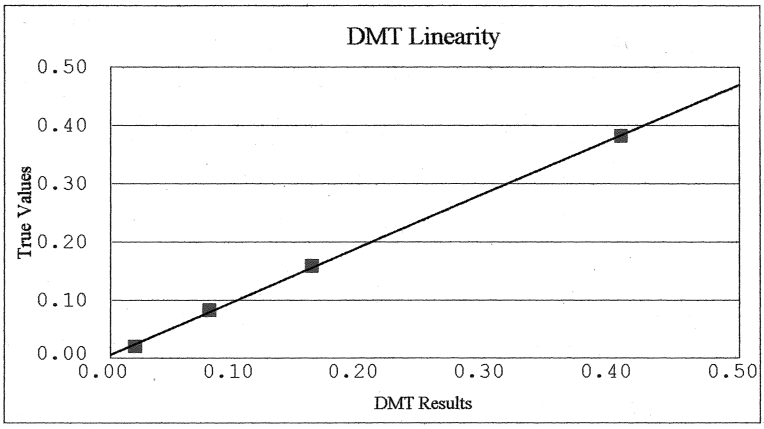
Options

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 Lot # 09-34-020	0.020 g/210L	0.001
0.083 g/210L Lot # 09-43-080	0.079 g/210L	0.001
0.159 g/210L Lot # 09-38-160	0.161 g/210L	0.000
0.382 g/210L Lot # 09-36-400	0.406 g/210L	0.000

$R^2 = 0.9995$



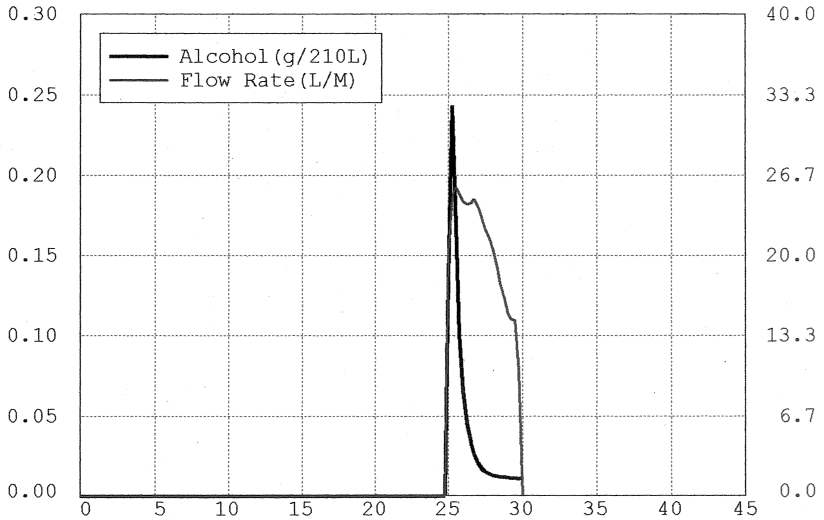
Acetone Interference Test

Lot # 10-05-08A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

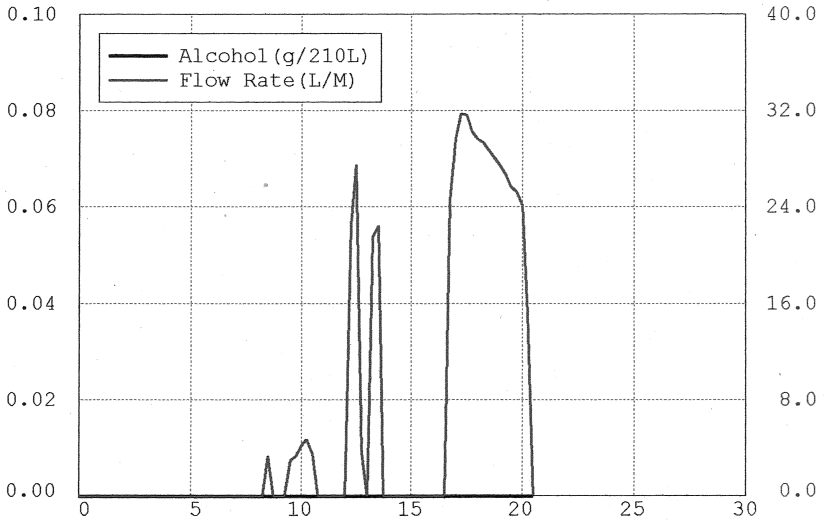


RF Interference Test

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: 103809

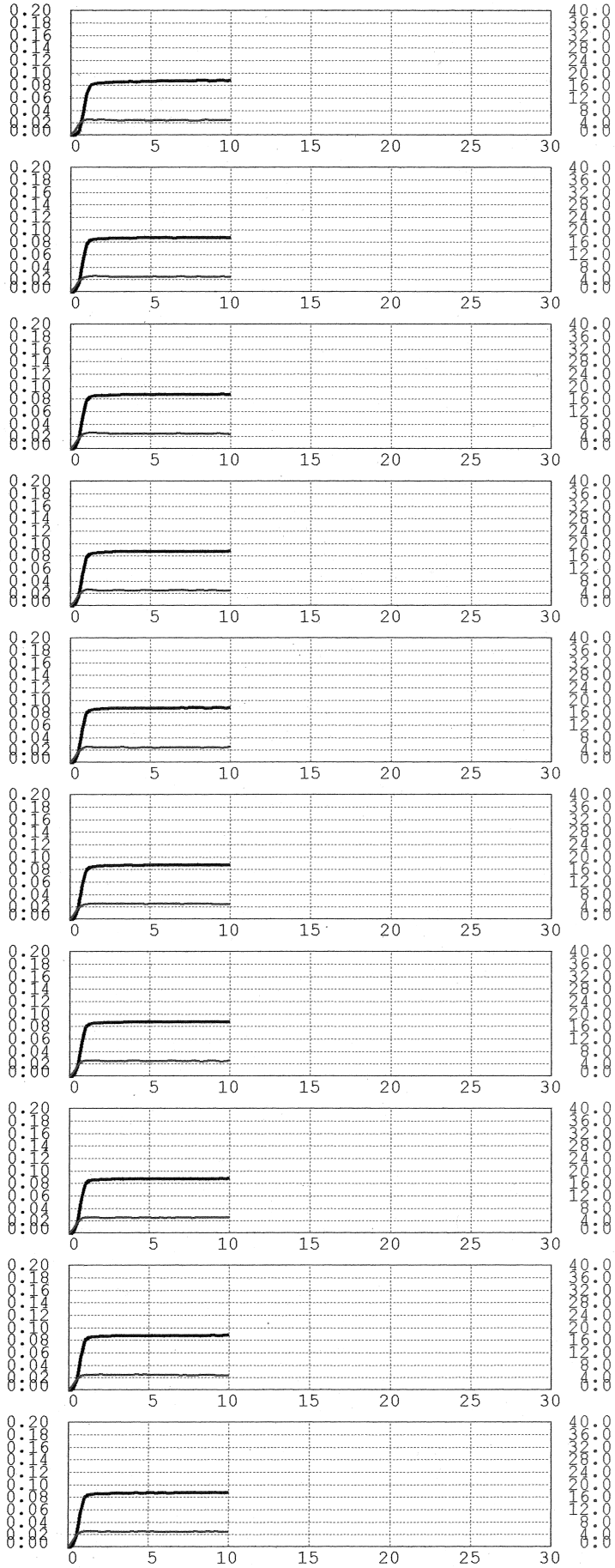
Date: 10/21/2009
Time: 13:19:12

SUPERVISOR NAME: ALB . .01 ACETONE .08 ETOH

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

BLANK TEST	0.000	13:20
CALIBRATION CHECK	PASSED	13:20
SIMULATOR VAPOR	INTERFERENCE	13:20
SIMULATOR VAPOR	INTERFERENCE	13:21
SIMULATOR VAPOR	INTERFERENCE	13:22
SIMULATOR VAPOR	INTERFERENCE	13:23
SIMULATOR VAPOR	INTERFERENCE	13:24
SIMULATOR VAPOR	INTERFERENCE	13:25
SIMULATOR VAPOR	INTERFERENCE	13:26
SIMULATOR VAPOR	INTERFERENCE	13:27
SIMULATOR VAPOR	INTERFERENCE	13:28
SIMULATOR VAPOR	INTERFERENCE	13:29
BLANK TEST	0.000	13:30

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

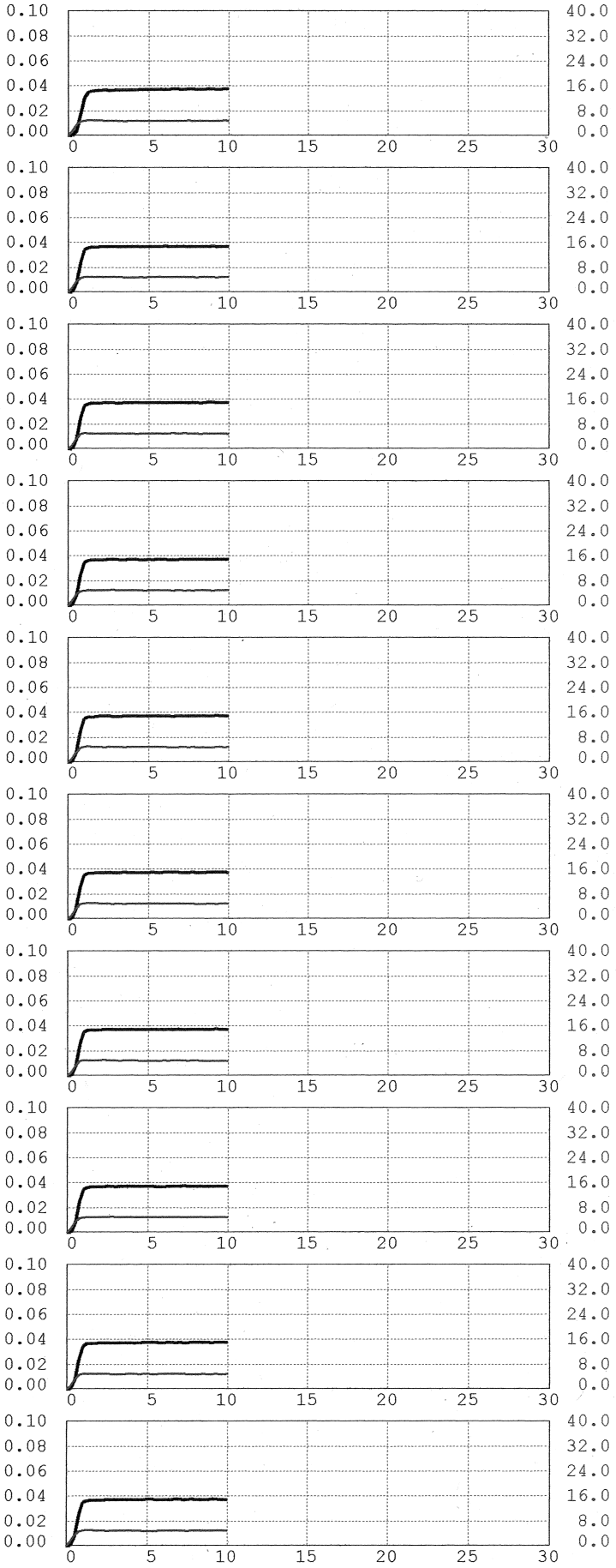
Date: 10/21/2009
Time: 13:34:52

SUPERVISOR NAME: ALB .04 MEOH IN H2O

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

BLANK TEST	0.000	13:35
CALIBRATION CHECK	PASSED	13:35
SIMULATOR VAPOR	INTERFERENCE	13:36
SIMULATOR VAPOR	INTERFERENCE	13:37
SIMULATOR VAPOR	INTERFERENCE	13:38
SIMULATOR VAPOR	INTERFERENCE	13:39
SIMULATOR VAPOR	INTERFERENCE	13:40
SIMULATOR VAPOR	INTERFERENCE	13:41
SIMULATOR VAPOR	INTERFERENCE	13:42
SIMULATOR VAPOR	INTERFERENCE	13:43
SIMULATOR VAPOR	INTERFERENCE	13:44
SIMULATOR VAPOR	INTERFERENCE	13:45
BLANK TEST	0.000	13:45

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

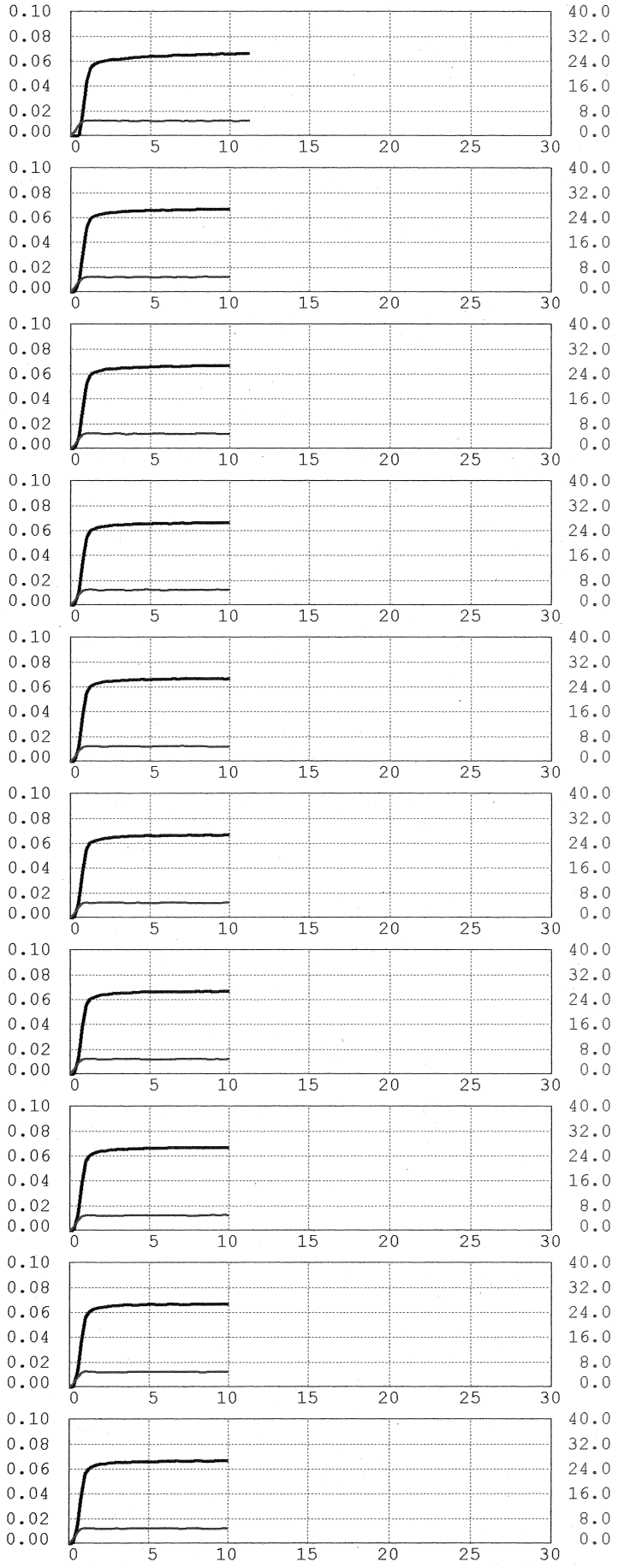
Date: 10/19/2009
Time: 09:19:36

SUPERVISOR NAME: ALB .04 ~~IPA~~ n-propanol

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

BLANK TEST	0.000	09:20
CALIBRATION CHECK	PASSED	09:20
Xq = 0.0771 (0.22%)		
SIMULATOR VAPOR	INTERFERENCE	09:20
X[1] = 0.0666 (-0.0129) (0.0022)		
SIMULATOR VAPOR	INTERFERENCE	09:21
X[1] = 0.0673 (-0.0130) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	09:22
X[1] = 0.0672 (-0.0139) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	09:23
X[1] = 0.0669 (-0.0137) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	09:24
X[1] = 0.0673 (-0.0136) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	09:25
X[1] = 0.0672 (-0.0136) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	09:26
X[1] = 0.0675 (-0.0134) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	09:27
X[1] = 0.0673 (-0.0128) (0.0015)		
SIMULATOR VAPOR	INTERFERENCE	09:28
X[1] = 0.0673 (-0.0135) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	09:29
X[1] = 0.0670 (-0.0135) (0.0009)		
BLANK TEST	0.000	09:30

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

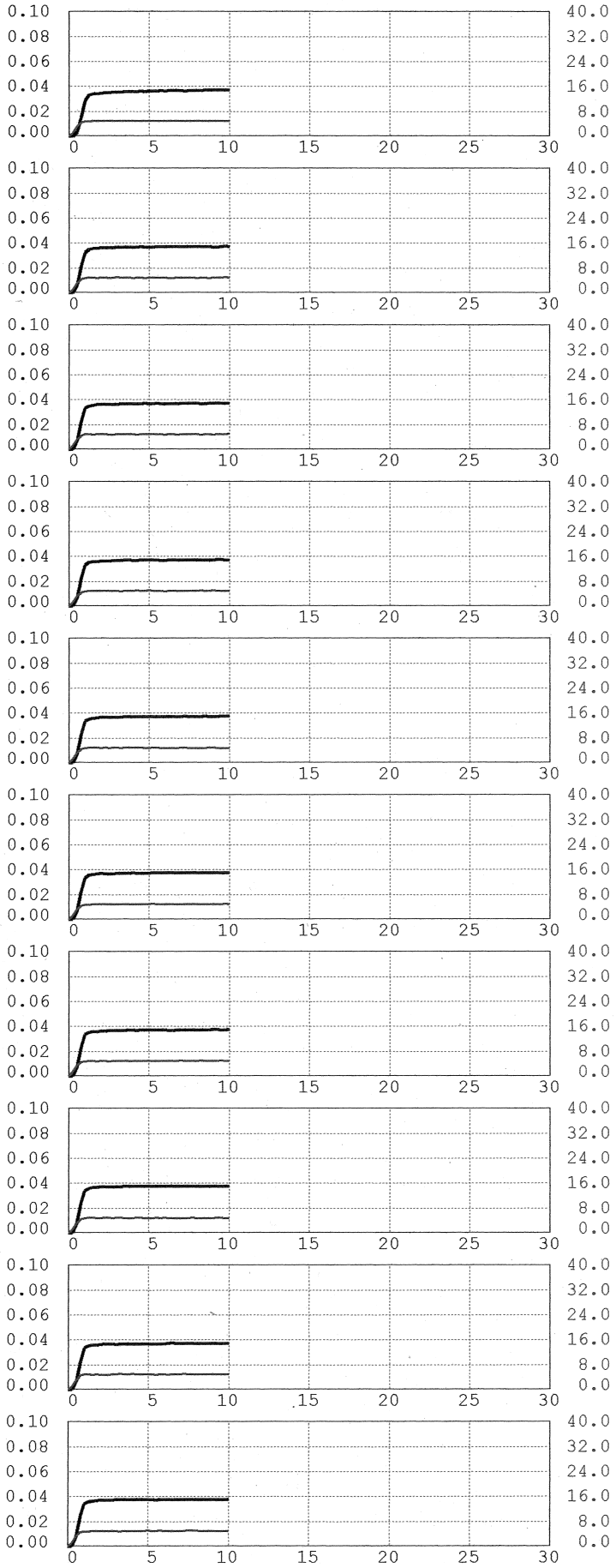
Date: 10/21/2009
Time: 13:48:38

SUPERVISOR NAME: ALB .04IPA IN H2O

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

BLANK TEST	0.000	13:49
CALIBRATION CHECK	PASSED	13:49
SIMULATOR VAPOR	INTERFERENCE	13:49
SIMULATOR VAPOR	INTERFERENCE	13:50
SIMULATOR VAPOR	INTERFERENCE	13:51
SIMULATOR VAPOR	INTERFERENCE	13:52
SIMULATOR VAPOR	INTERFERENCE	13:53
SIMULATOR VAPOR	INTERFERENCE	13:54
SIMULATOR VAPOR	INTERFERENCE	13:55
SIMULATOR VAPOR	INTERFERENCE	13:56
SIMULATOR VAPOR	INTERFERENCE	13:57
SIMULATOR VAPOR	INTERFERENCE	13:58
BLANK TEST	0.000	13:59

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

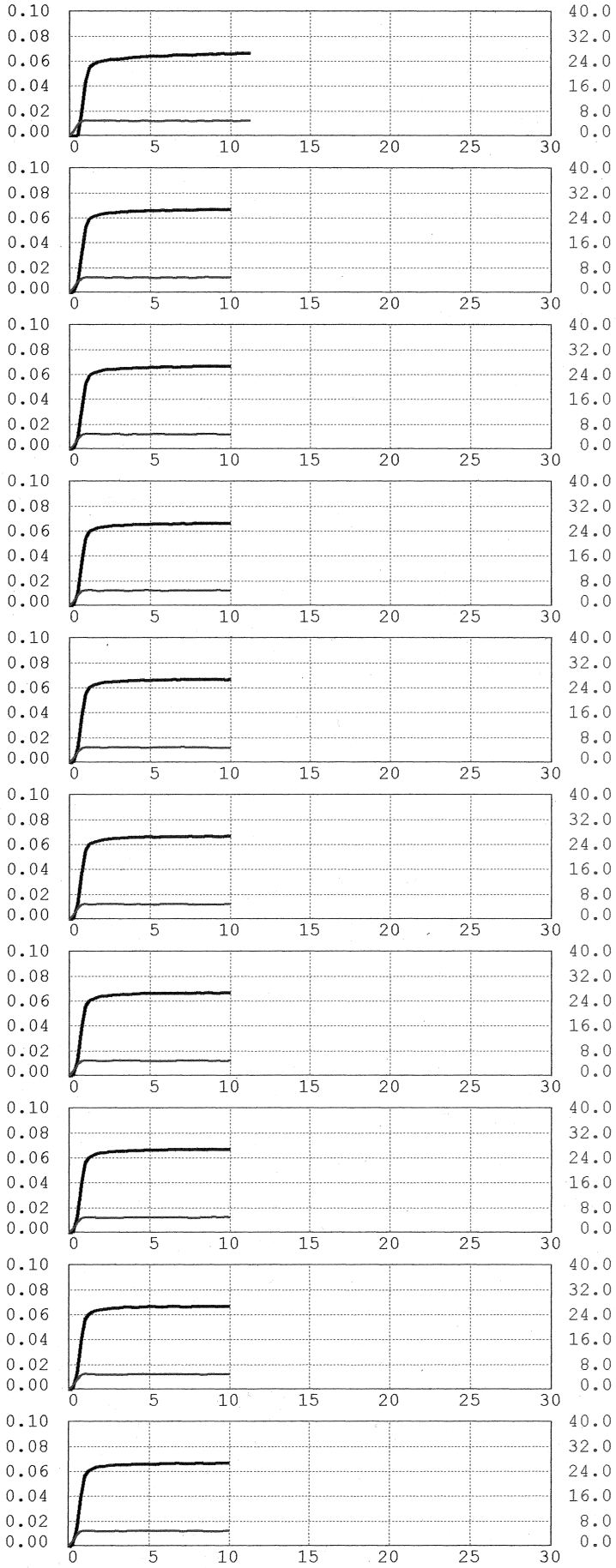
Date: 10/19/2009
Time: 09:19:36

SUPERVISOR NAME: ALB .04 ~~IPA~~ n-propanol

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

BLANK TEST	0.000	09:20
CALIBRATION CHECK	PASSED	09:20
Xq = 0.0771 (0.22%)		
SIMULATOR VAPOR	INTERFERENCE	09:20
X[1] = 0.0666 (-0.0129) (0.0022)		
SIMULATOR VAPOR	INTERFERENCE	09:21
X[1] = 0.0673 (-0.0130) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	09:22
X[1] = 0.0672 (-0.0139) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	09:23
X[1] = 0.0669 (-0.0137) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	09:24
X[1] = 0.0673 (-0.0136) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	09:25
X[1] = 0.0672 (-0.0136) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	09:26
X[1] = 0.0675 (-0.0134) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	09:27
X[1] = 0.0673 (-0.0128) (0.0015)		
SIMULATOR VAPOR	INTERFERENCE	09:28
X[1] = 0.0673 (-0.0135) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	09:29
X[1] = 0.0670 (-0.0135) (0.0009)		
BLANK TEST	0.000	09:30

Average out of range!



Section 4: Linearity

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

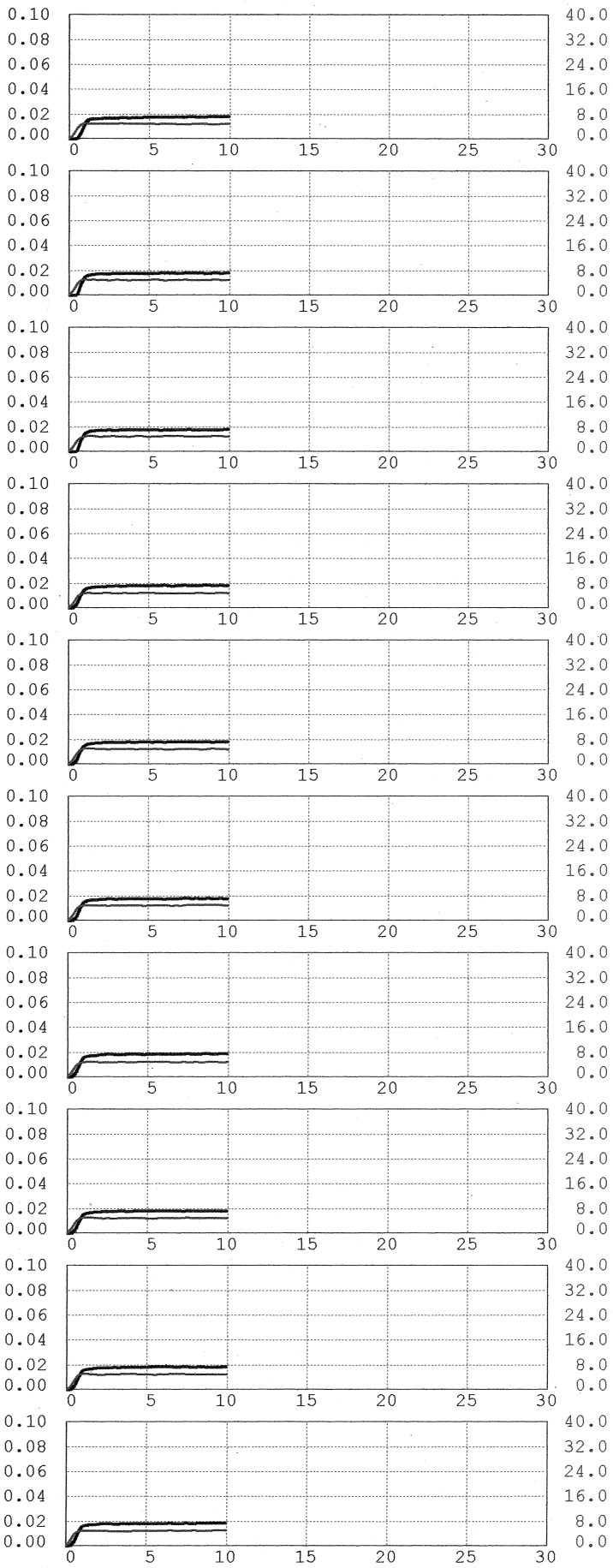
Date: 11/02/2009
Time: 10:24:29

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	10:25
CALIBRATION CHECK	PASSED	10:25
SIMULATOR VAPOR	0.019	10:25
SIMULATOR VAPOR	0.019	10:26
SIMULATOR VAPOR	0.019	10:27
SIMULATOR VAPOR	0.020	10:28
SIMULATOR VAPOR	0.019	10:29
SIMULATOR VAPOR	0.019	10:30
SIMULATOR VAPOR	0.020	10:31
SIMULATOR VAPOR	0.019	10:32
SIMULATOR VAPOR	0.019	10:33
SIMULATOR VAPOR	0.019	10:34
BLANK TEST	0.000	10:35

Average = 0.019
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

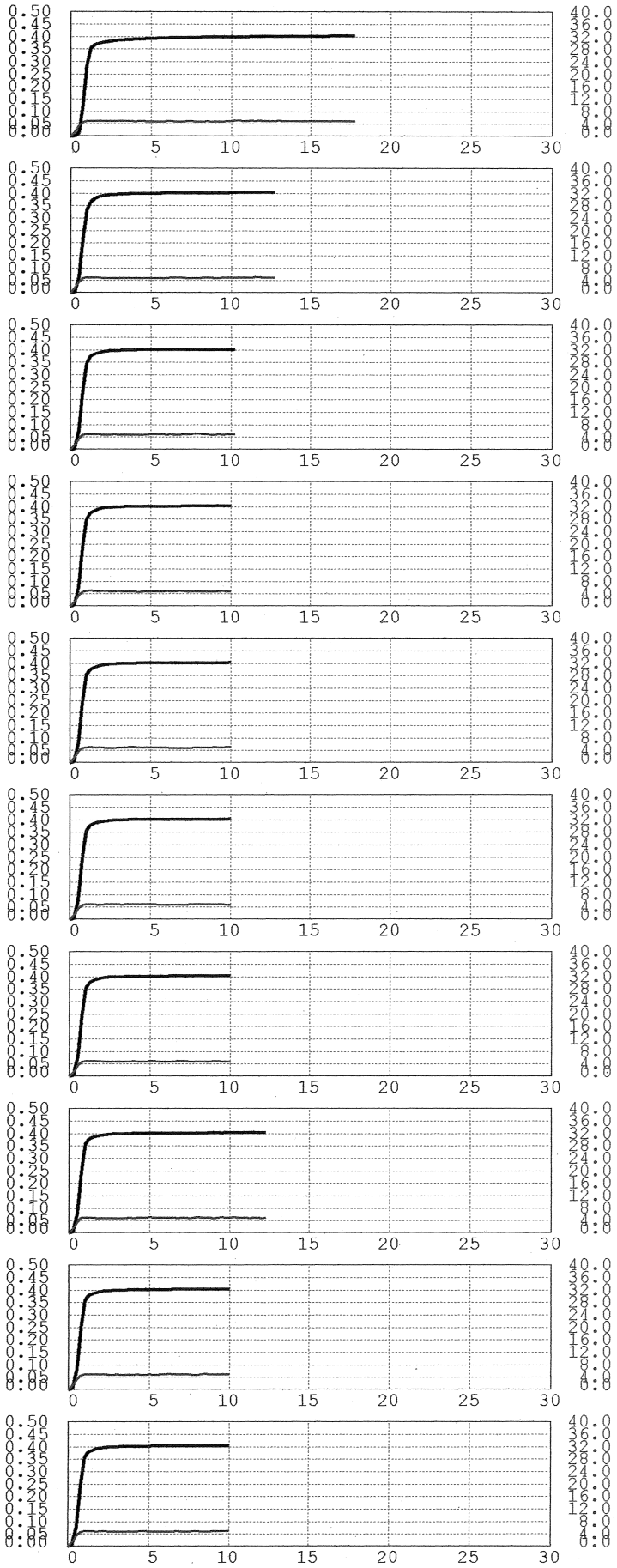
Date: 11/02/2009
Time: 10:52:08

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	10:53
CALIBRATION CHECK	PASSED	10:53
SIMULATOR VAPOR	0.401	10:53
SIMULATOR VAPOR	0.402	10:54
SIMULATOR VAPOR	0.400	10:55
SIMULATOR VAPOR	0.401	10:56
SIMULATOR VAPOR	0.401	10:57
SIMULATOR VAPOR	0.401	10:58
SIMULATOR VAPOR	0.401	10:59
SIMULATOR VAPOR	0.401	11:00
SIMULATOR VAPOR	0.402	11:01
SIMULATOR VAPOR	0.402	11:02
BLANK TEST	0.000	11:03

Average = 0.401
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

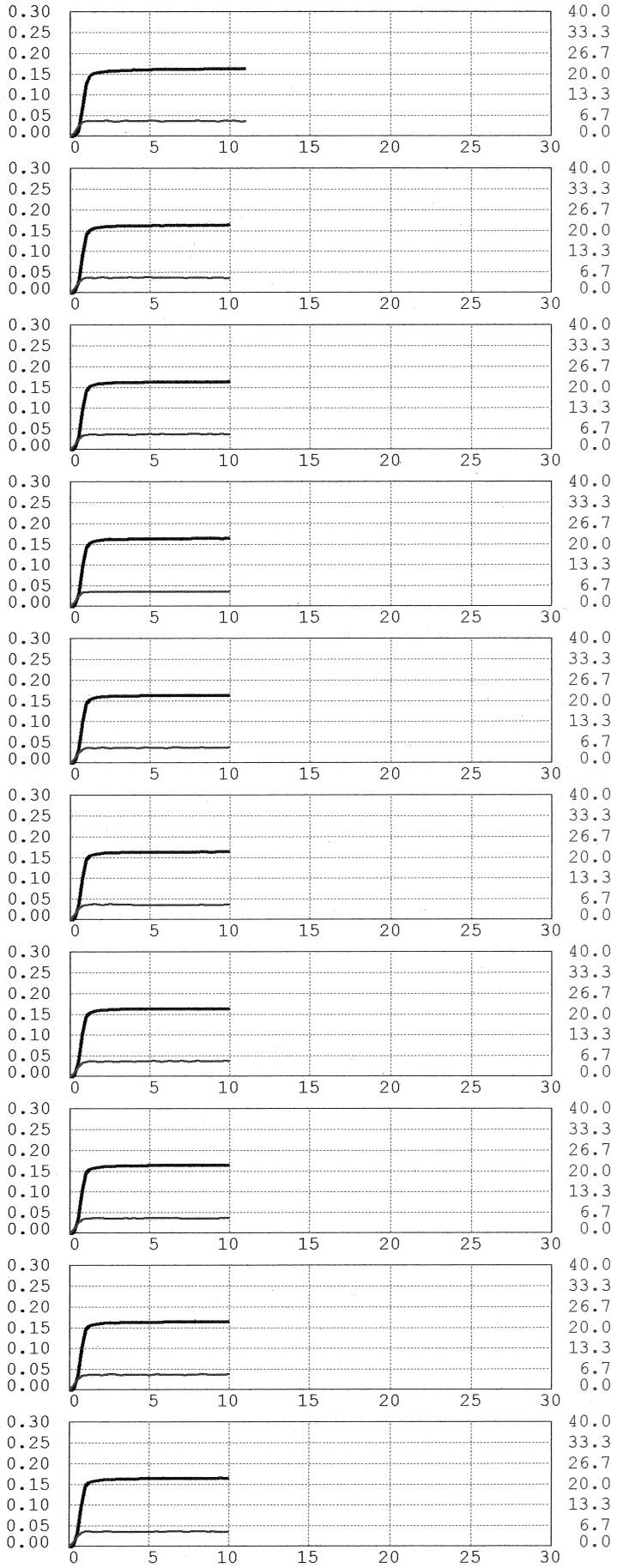
Date: 11/02/2009
Time: 11:24:03

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	11:24
CALIBRATION CHECK	PASSED	11:25
SIMULATOR VAPOR	0.162	11:25
SIMULATOR VAPOR	0.163	11:26
SIMULATOR VAPOR	0.163	11:27
SIMULATOR VAPOR	0.164	11:28
SIMULATOR VAPOR	0.163	11:29
SIMULATOR VAPOR	0.163	11:30
SIMULATOR VAPOR	0.163	11:31
SIMULATOR VAPOR	0.164	11:32
SIMULATOR VAPOR	0.163	11:33
SIMULATOR VAPOR	0.164	11:34
BLANK TEST	0.000	11:35

Average = 0.163
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

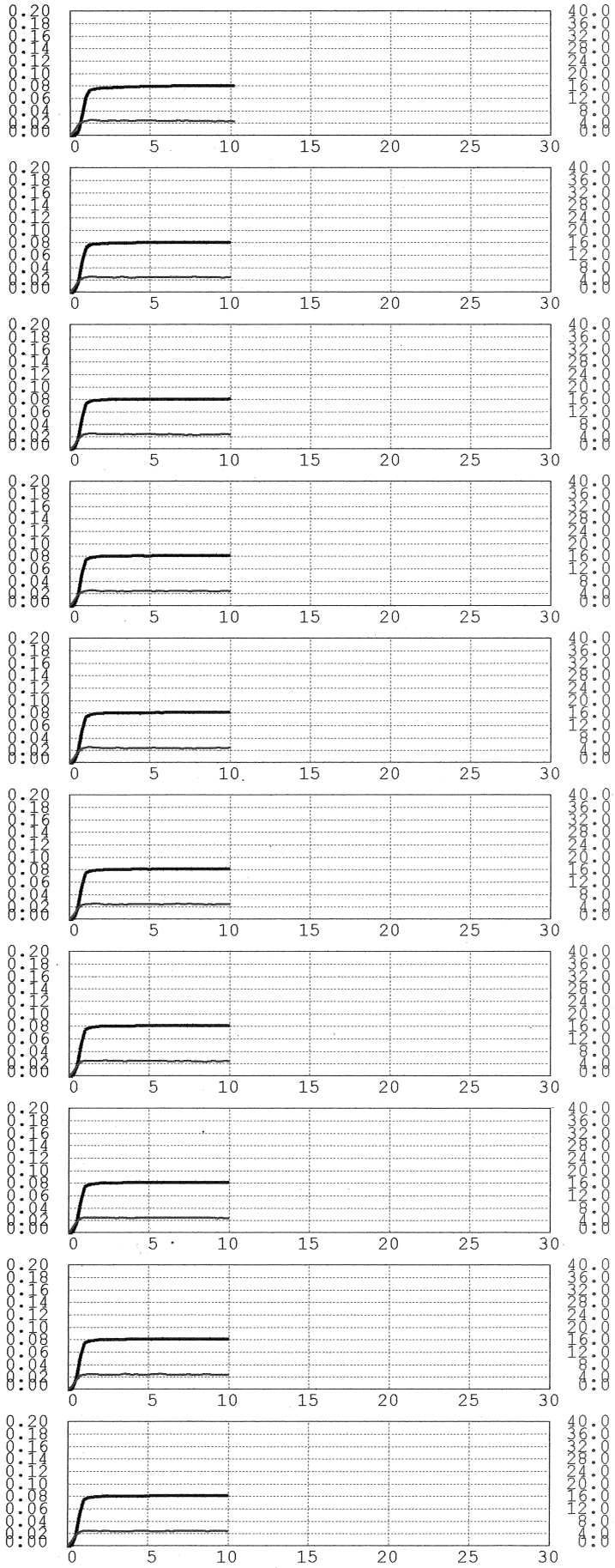
Date: 11/02/2009
Time: 11:38:31

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	11:39
CALIBRATION CHECK	PASSED	11:39
SIMULATOR VAPOR	0.081	11:39
SIMULATOR VAPOR	0.081	11:40
SIMULATOR VAPOR	0.081	11:41
SIMULATOR VAPOR	0.081	11:42
SIMULATOR VAPOR	0.081	11:43
SIMULATOR VAPOR	0.081	11:44
SIMULATOR VAPOR	0.081	11:45
SIMULATOR VAPOR	0.081	11:46
SIMULATOR VAPOR	0.082	11:47
SIMULATOR VAPOR	0.081	11:48
BLANK TEST	0.000	11:49

Average = 0.081
Std Dev = 0.0003



DIAGNOSTIC RESULT

DataMaster DMT: 103809 ?
Location:
Calibration Date: 10/20/2009
Certification Date: 10/20/2009
Installation Date: 10/20/2009
Test Date: 11/13/2009
Time: 16:06

VERMONT
DEPARTMENT OF HEALTH

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

TEMPERATURES
Sample Chamber = 48.80°C
Breath Tube    = 48.08°C

SETTINGS
Lamp Voltage   = 1.72 V
Cooler Voltage = 1.71 V
Bias Voltage   = 80.7 V
Chopper Freq   = 536.8 Hz

PUMP INFO
Flow Rate = 5.723 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0451   0.0482
MIN(V)   0.0437   0.0465

FILTER INFO
Filter 1  0.047  Zero = true
Filter 2  0.224  Zero = true
Filter 3 -0.049  Zero = true

CALIBRATION CHECK
Xq = 0.0761  0.34%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

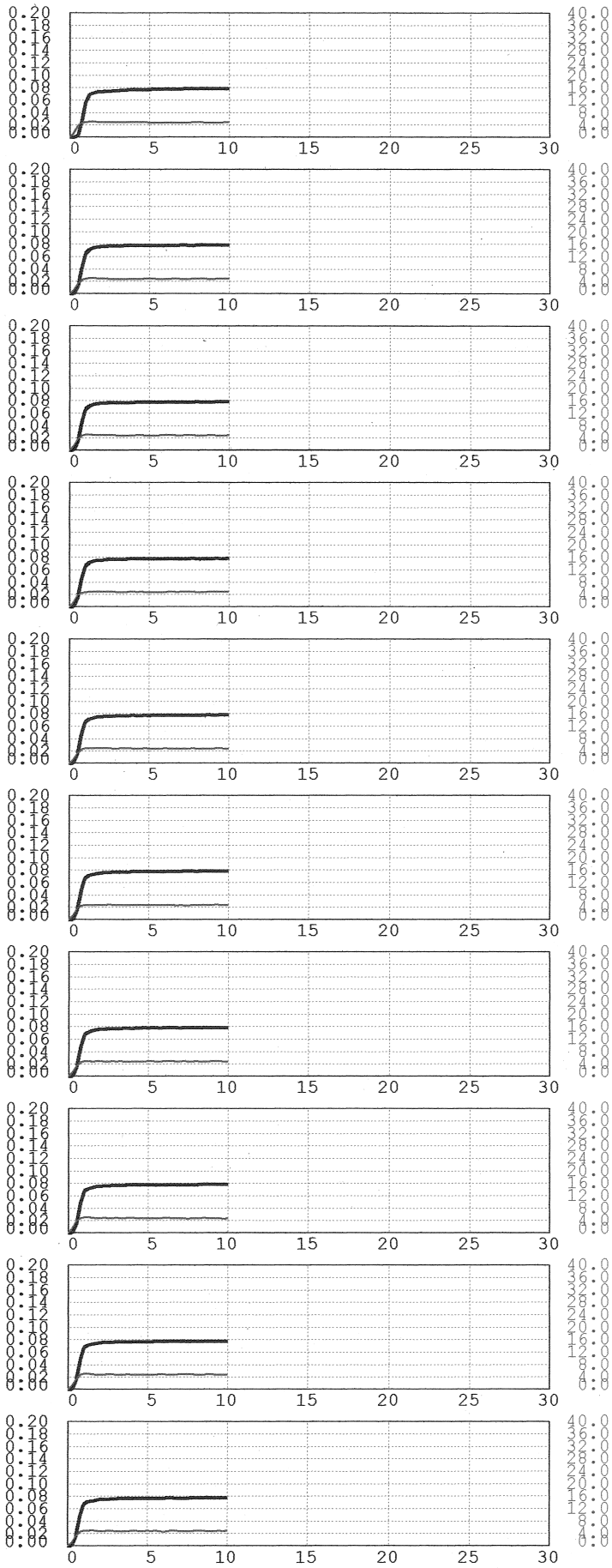
Date: 11/13/2009
Time: 13:27:51

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	13:28
CALIBRATION CHECK	PASSED	13:28
SIMULATOR VAPOR	0.079	13:29
SIMULATOR VAPOR	0.079	13:30
SIMULATOR VAPOR	0.079	13:31
SIMULATOR VAPOR	0.079	13:32
SIMULATOR VAPOR	0.079	13:33
SIMULATOR VAPOR	0.079	13:34
SIMULATOR VAPOR	0.079	13:35
SIMULATOR VAPOR	0.079	13:36
SIMULATOR VAPOR	0.079	13:37
SIMULATOR VAPOR	0.078	13:38
BLANK TEST	0.000	13:38

Average = 0.078
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

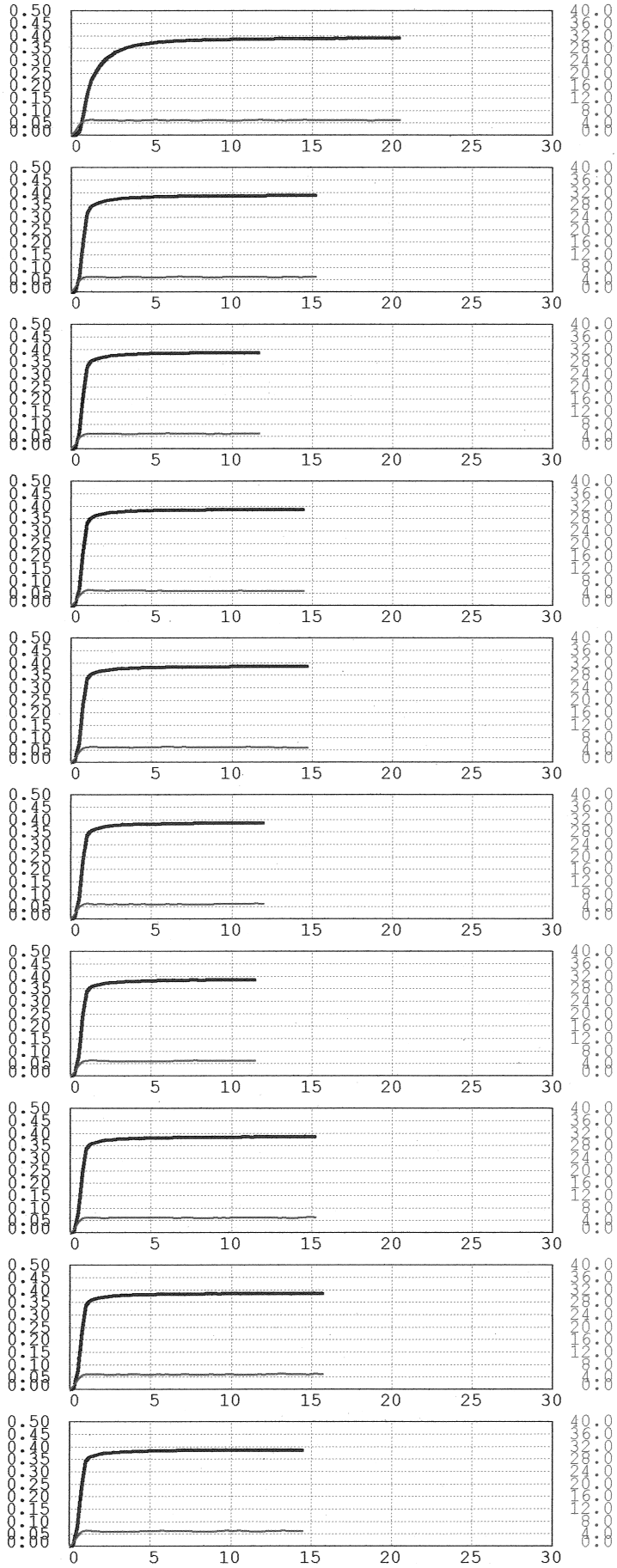
Date: 11/13/2009
Time: 13:43:14

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	13:44
CALIBRATION CHECK	PASSED	13:44
SIMULATOR VAPOR	0.388	13:44
SIMULATOR VAPOR	0.387	13:46
SIMULATOR VAPOR	0.384	13:47
SIMULATOR VAPOR	0.385	13:48
SIMULATOR VAPOR	0.385	13:49
SIMULATOR VAPOR	0.384	13:50
SIMULATOR VAPOR	0.385	13:51
SIMULATOR VAPOR	0.385	13:52
SIMULATOR VAPOR	0.385	13:53
SIMULATOR VAPOR	0.386	13:54
BLANK TEST	0.000	13:55

Average = 0.385
Std Dev = 0.0012



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

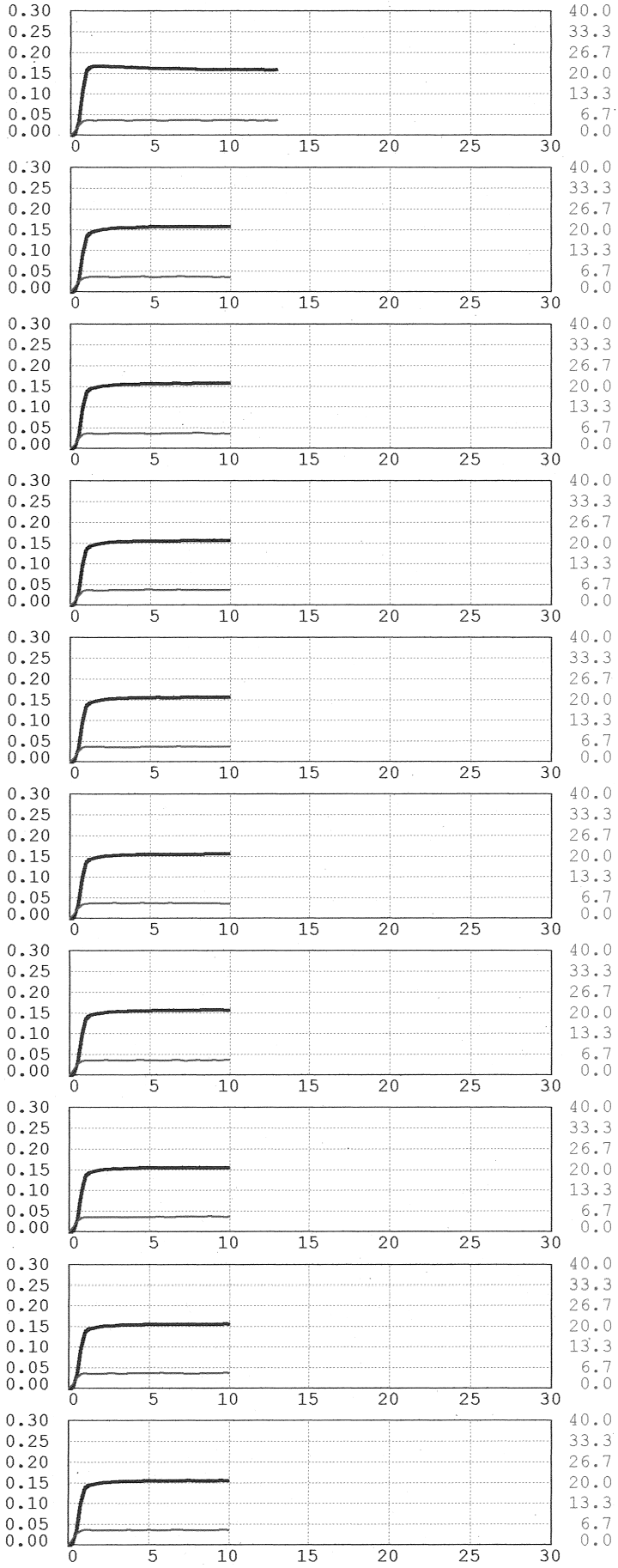
Date: 11/13/2009
Time: 15:09:18

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	15:10
CALIBRATION CHECK	PASSED	15:10
SIMULATOR VAPOR	0.158	15:10
SIMULATOR VAPOR	0.157	15:11
SIMULATOR VAPOR	0.157	15:12
SIMULATOR VAPOR	0.156	15:13
SIMULATOR VAPOR	0.156	15:14
SIMULATOR VAPOR	0.156	15:15
SIMULATOR VAPOR	0.157	15:16
SIMULATOR VAPOR	0.156	15:17
SIMULATOR VAPOR	0.156	15:18
SIMULATOR VAPOR	0.156	15:19
BLANK TEST	0.000	15:20

Average = 0.156
Std Dev = 0.0007



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

Date: 11/13/2009
Time: 15:29:27

SUPERVISOR NAME: DARCY M RICHARDSON

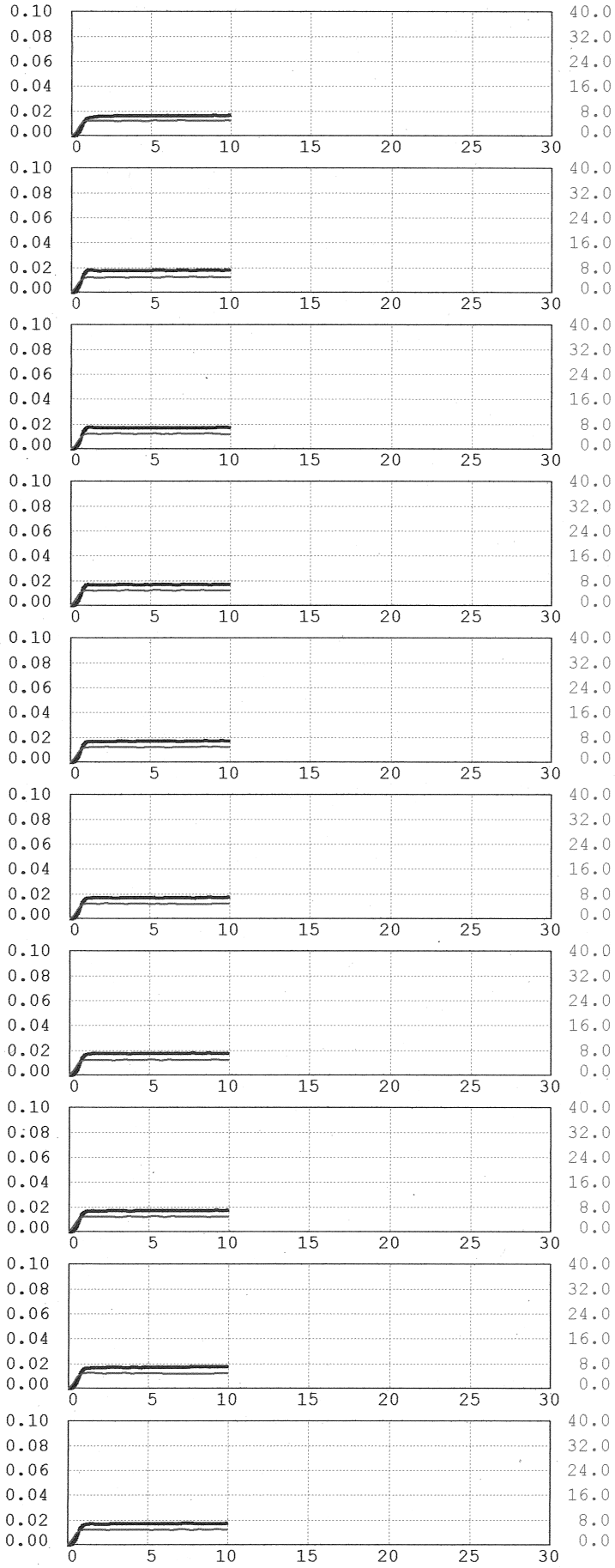
SOLUTION LOT #: 10-13-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	15:30
CALIBRATION CHECK	PASSED	15:30
SIMULATOR VAPOR	0.018	15:30
SIMULATOR VAPOR	0.019	15:31
SIMULATOR VAPOR	0.018	15:32
SIMULATOR VAPOR	0.018	15:33
SIMULATOR VAPOR	0.018	15:34
SIMULATOR VAPOR	0.019	15:35
SIMULATOR VAPOR	0.018	15:36
SIMULATOR VAPOR	0.018	15:37
SIMULATOR VAPOR	0.018	15:38
SIMULATOR VAPOR	0.018	15:39
BLANK TEST	0.000	15:40

Average out of range!

Average = 0.018
Std Dev = 0.0004

average is within range
DMT



DIAGNOSTIC RESULT

DataMaster DMT: 103809
Location:
Calibration Date: 10/20/2009
Certification Date: 10/20/2009
Installation Date: 10/20/2009
Test Date: 11/17/2009
Time: 08:18

VERMONT
DEPARTMENT OF HEALTH

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

TEMPERATURES
Sample Chamber = 48.63°C
Breath Tube    = 48.08°C

SETTINGS
Lamp Voltage   = 1.72 V
Cooler Voltage = 1.71 V
Bias Voltage   = 80.7 V
Chopper Freq   = 539.1 Hz

PUMP INFO
Flow Rate = 5.836 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)  -0.0248  -0.0217
MIN(V)  -0.0270  -0.0238

FILTER INFO
Filter 1 -0.023  Zero = true
Filter 2  0.156  Zero = true
Filter 3 -0.140  Zero = true

CALIBRATION CHECK
Xq = 0.0759  0.57%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

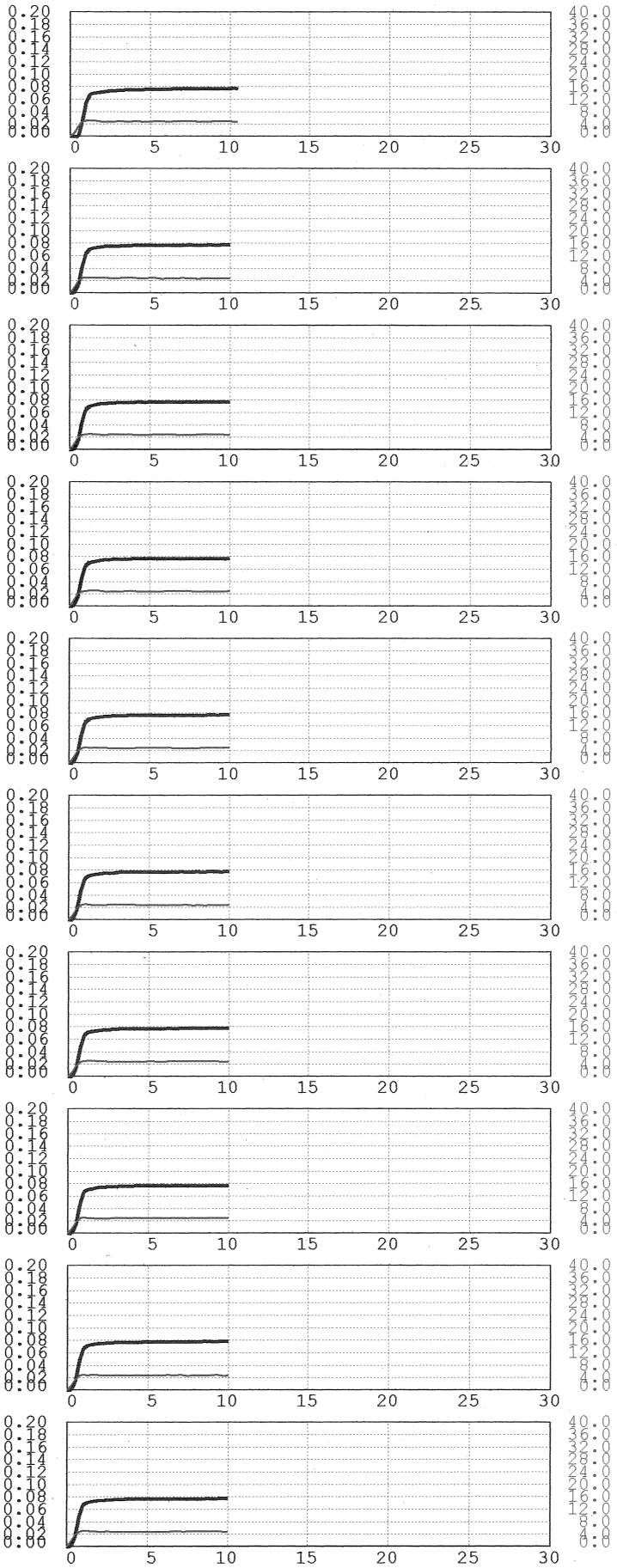
Date: 11/17/2009
Time: 09:23:39

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	09:24
CALIBRATION CHECK	PASSED	09:24
SIMULATOR VAPOR	0.078	09:25
SIMULATOR VAPOR	0.078	09:25
SIMULATOR VAPOR	0.077	09:26
SIMULATOR VAPOR	0.078	09:27
SIMULATOR VAPOR	0.078	09:28
SIMULATOR VAPOR	0.078	09:29
SIMULATOR VAPOR	0.078	09:30
SIMULATOR VAPOR	0.078	09:31
SIMULATOR VAPOR	0.079	09:32
SIMULATOR VAPOR	0.078	09:33
BLANK TEST	0.000	09:34

Average = 0.078
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

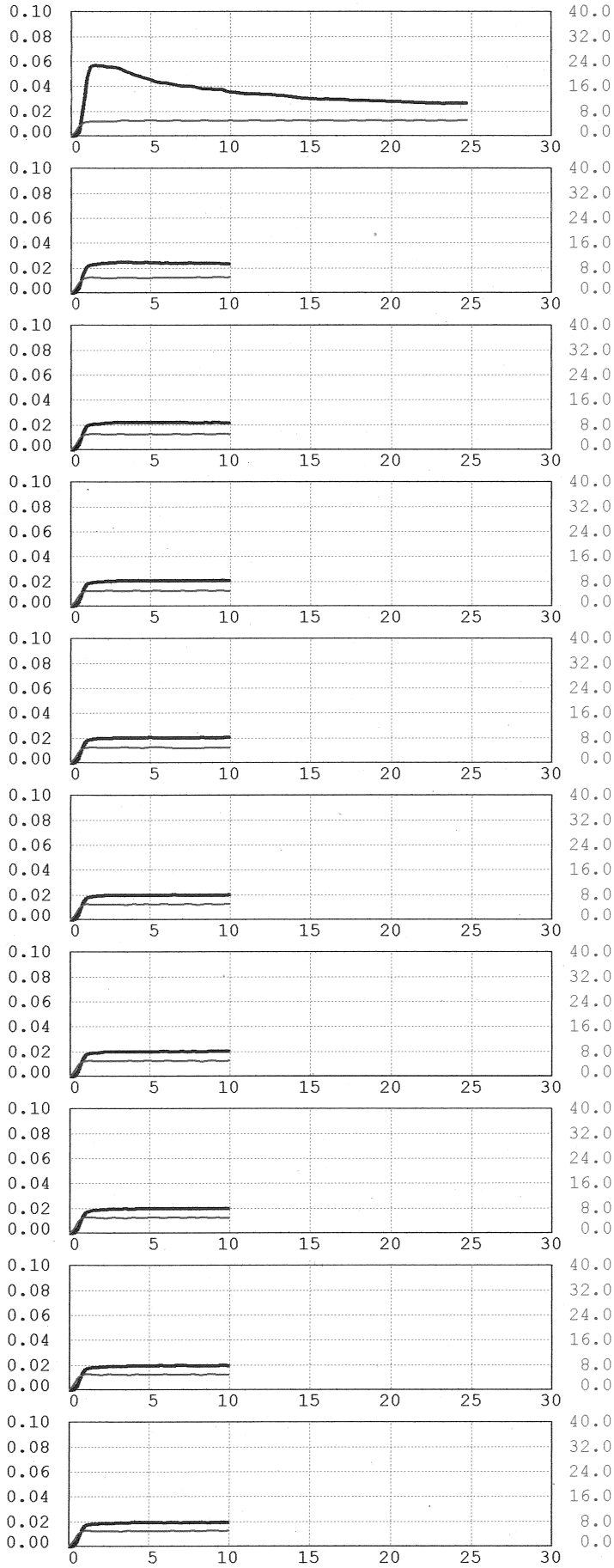
Date: 11/17/2009
Time: 09:39:23

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	09:40
CALIBRATION CHECK	PASSED	09:40
SIMULATOR VAPOR	0.027	09:40
SIMULATOR VAPOR	0.024	09:41
SIMULATOR VAPOR	0.022	09:42
SIMULATOR VAPOR	0.021	09:43
SIMULATOR VAPOR	0.021	09:44
SIMULATOR VAPOR	0.021	09:45
SIMULATOR VAPOR	0.021	09:46
SIMULATOR VAPOR	0.020	09:47
SIMULATOR VAPOR	0.020	09:48
SIMULATOR VAPOR	0.020	09:49
BLANK TEST	0.000	09:50

Average = 0.021
Std Dev = 0.0022



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

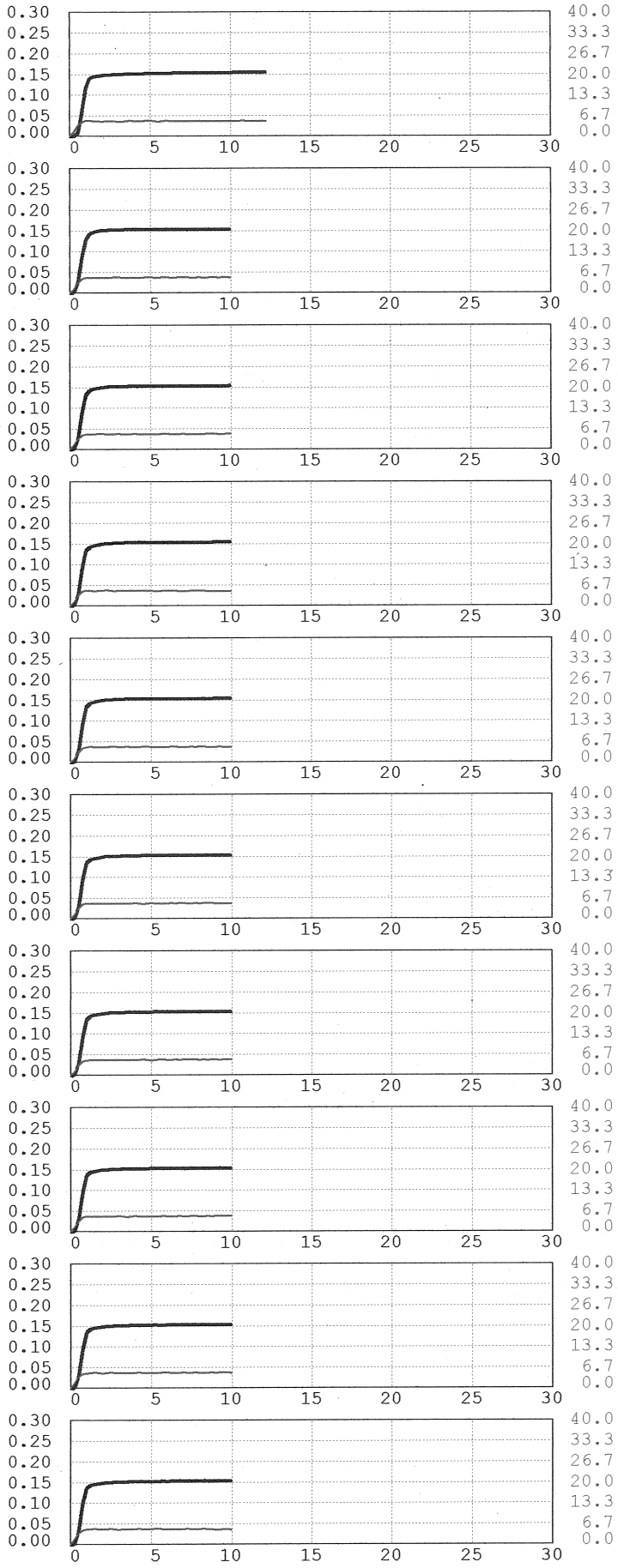
Date: 11/17/2009
Time: 09:56:22

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	09:57
CALIBRATION CHECK	PASSED	09:57
SIMULATOR VAPOR	0.154	09:57
SIMULATOR VAPOR	0.154	09:58
SIMULATOR VAPOR	0.154	09:59
SIMULATOR VAPOR	0.154	10:00
SIMULATOR VAPOR	0.154	10:01
SIMULATOR VAPOR	0.153	10:02
SIMULATOR VAPOR	0.153	10:03
SIMULATOR VAPOR	0.154	10:04
SIMULATOR VAPOR	0.153	10:05
SIMULATOR VAPOR	0.153	10:06
BLANK TEST	0.000	10:07

Average = 0.153
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

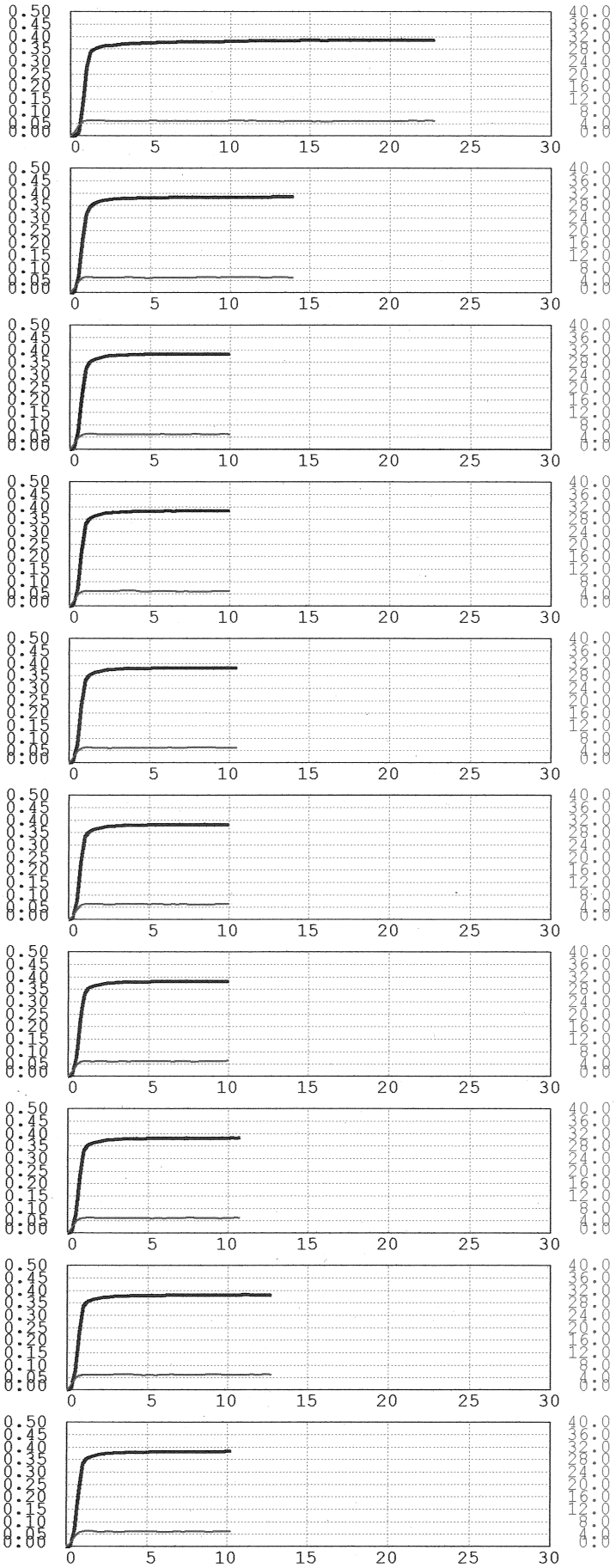
Date: 11/17/2009
Time: 15:14:09

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	15:15
CALIBRATION CHECK	PASSED	15:15
SIMULATOR VAPOR	0.385	15:15
SIMULATOR VAPOR	0.383	15:16
SIMULATOR VAPOR	0.381	15:17
SIMULATOR VAPOR	0.381	15:18
SIMULATOR VAPOR	0.381	15:19
SIMULATOR VAPOR	0.381	15:20
SIMULATOR VAPOR	0.380	15:21
SIMULATOR VAPOR	0.381	15:22
SIMULATOR VAPOR	0.381	15:23
SIMULATOR VAPOR	0.381	15:24
BLANK TEST	0.000	15:25

Average = 0.381
Std Dev = 0.0014



DIAGNOSTIC RESULT

DataMaster DMT: 103809
Location:
Calibration Date: 10/20/2009
Certification Date: 10/20/2009
Installation Date: 10/20/2009
Test Date: 11/23/2009
Time: 17:16

VERMONT
DEPARTMENT OF HEALTH

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

TEMPERATURES
Sample Chamber = 48.91°C
Breath Tube    = 48.09°C

SETTINGS
Lamp Voltage   = 1.72 V
Cooler Voltage = 1.71 V
Bias Voltage   = 80.7 V
Chopper Freq   = 539.0 Hz

PUMP INFO
Flow Rate = 5.971 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0707   0.0683
MIN(V)   0.0642   0.0673

FILTER INFO
Filter 1  0.068  Zero = true
Filter 2  0.247  Zero = true
Filter 3 -0.006  Zero = true

CALIBRATION CHECK
Xq = 0.0769  0.68%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

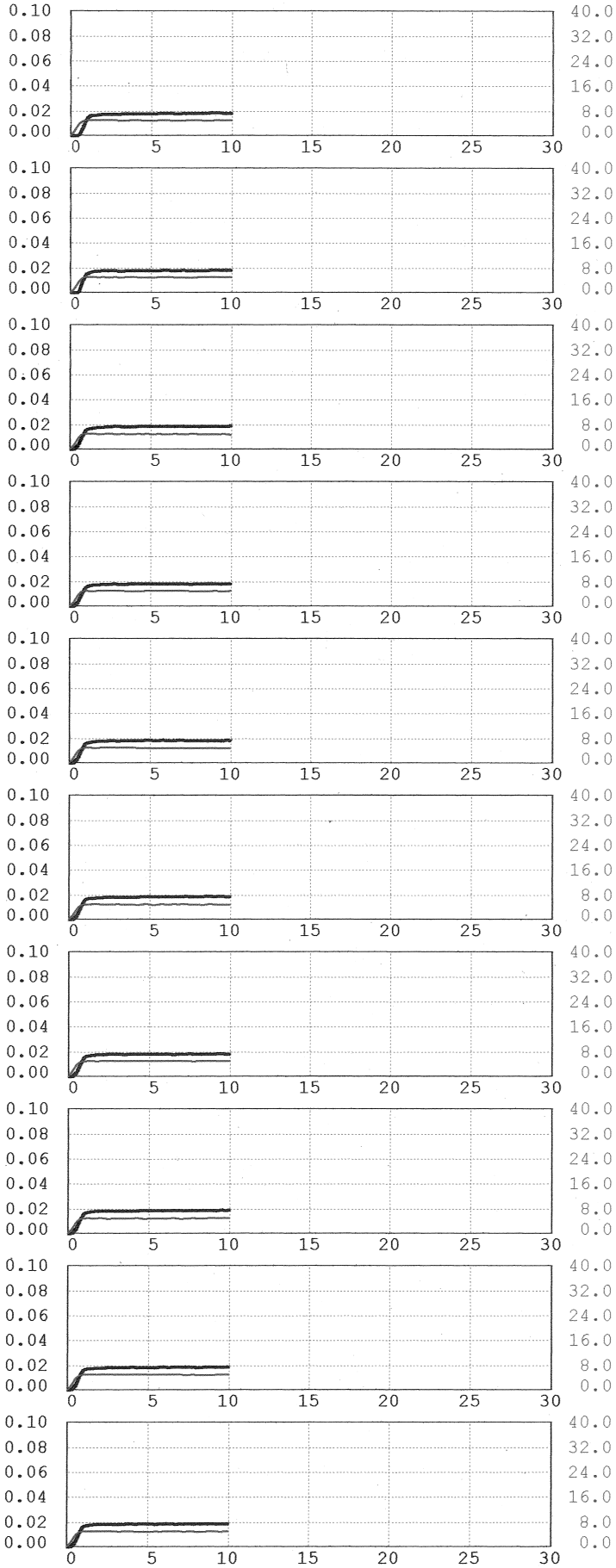
Date: 11/23/2009
Time: 15:57:29

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	15:58
CALIBRATION CHECK	PASSED	15:58
SIMULATOR VAPOR	0.019	15:58
SIMULATOR VAPOR	0.019	15:59
SIMULATOR VAPOR	0.020	16:00
SIMULATOR VAPOR	0.019	16:01
SIMULATOR VAPOR	0.019	16:02
SIMULATOR VAPOR	0.020	16:03
SIMULATOR VAPOR	0.019	16:04
SIMULATOR VAPOR	0.020	16:05
SIMULATOR VAPOR	0.019	16:06
SIMULATOR VAPOR	0.019	16:07
BLANK TEST	0.000	16:08

Average = 0.019
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

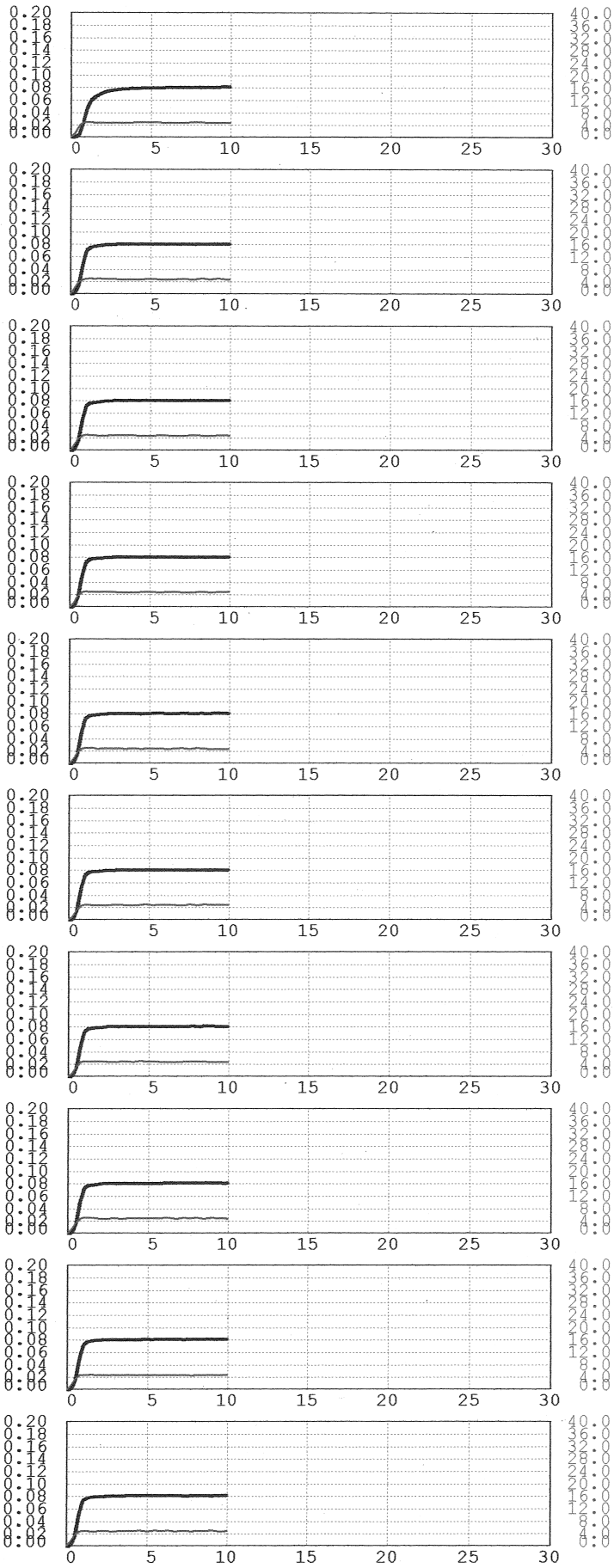
Date: 11/23/2009
Time: 16:15:18

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	16:16
CALIBRATION CHECK	PASSED	16:16
SIMULATOR VAPOR	0.081	16:16
SIMULATOR VAPOR	0.081	16:17
SIMULATOR VAPOR	0.081	16:18
SIMULATOR VAPOR	0.081	16:19
SIMULATOR VAPOR	0.081	16:20
SIMULATOR VAPOR	0.081	16:21
SIMULATOR VAPOR	0.081	16:22
SIMULATOR VAPOR	0.081	16:23
SIMULATOR VAPOR	0.081	16:24
SIMULATOR VAPOR	0.081	16:25
BLANK TEST	0.000	16:26

Average = 0.081
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

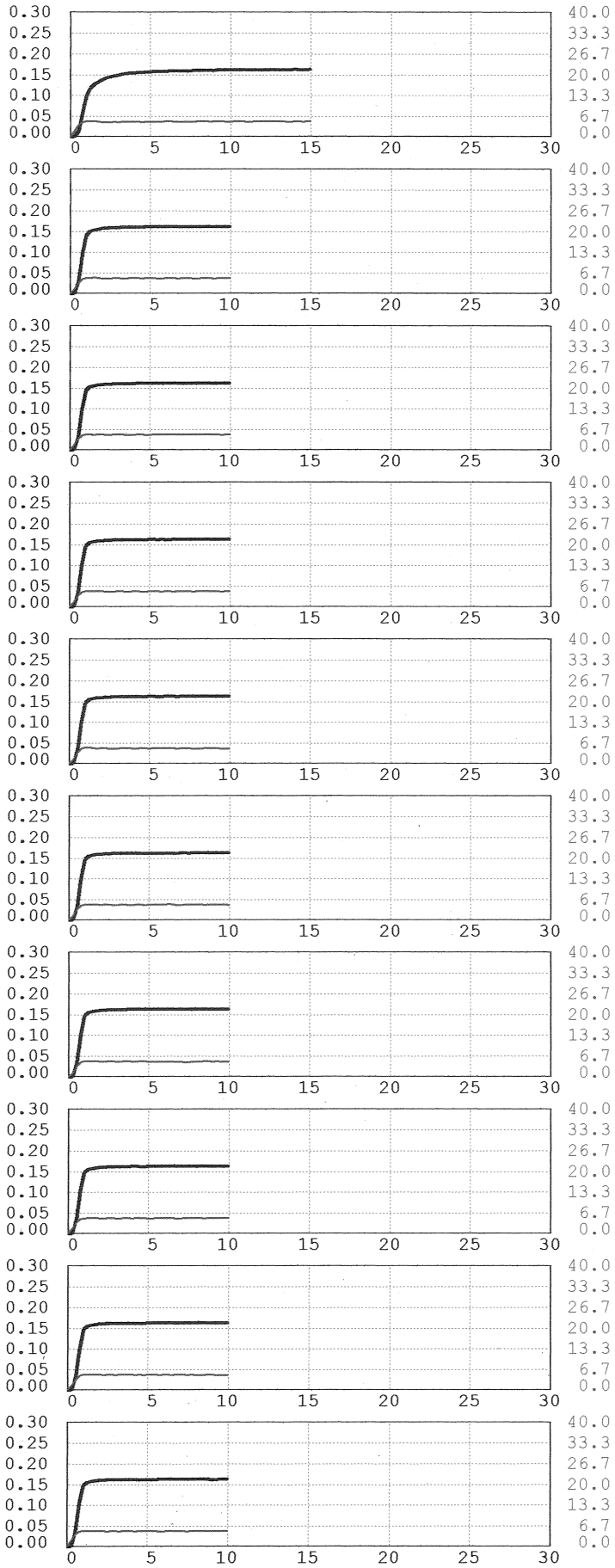
Date: 11/23/2009
Time: 16:32:02

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	16:32
CALIBRATION CHECK	PASSED	16:33
SIMULATOR VAPOR	0.162	16:33
SIMULATOR VAPOR	0.161	16:34
SIMULATOR VAPOR	0.162	16:35
SIMULATOR VAPOR	0.162	16:36
SIMULATOR VAPOR	0.162	16:37
SIMULATOR VAPOR	0.162	16:38
SIMULATOR VAPOR	0.163	16:39
SIMULATOR VAPOR	0.162	16:40
SIMULATOR VAPOR	0.162	16:41
SIMULATOR VAPOR	0.162	16:42
BLANK TEST	0.000	16:43

Average = 0.162
Std Dev = 0.0004



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

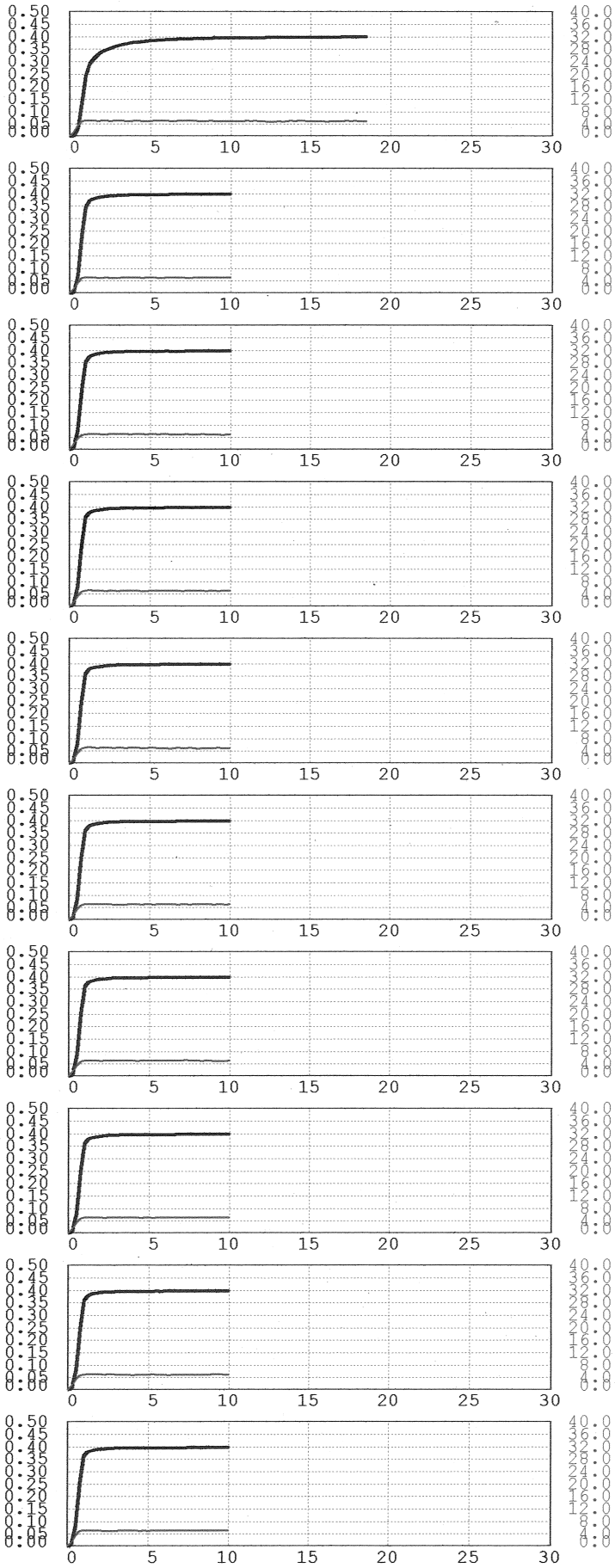
Date: 11/23/2009
Time: 16:51:58

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	16:52
CALIBRATION CHECK	PASSED	16:53
SIMULATOR VAPOR	0.396	16:53
SIMULATOR VAPOR	0.395	16:54
SIMULATOR VAPOR	0.395	16:55
SIMULATOR VAPOR	0.395	16:56
SIMULATOR VAPOR	0.395	16:57
SIMULATOR VAPOR	0.394	16:58
SIMULATOR VAPOR	0.395	16:59
SIMULATOR VAPOR	0.395	17:00
SIMULATOR VAPOR	0.395	17:01
SIMULATOR VAPOR	0.395	17:02
BLANK TEST	0.000	17:03

Average = 0.395
Std Dev = 0.0004



DIAGNOSTIC RESULT

DataMaster DMT: 103809
Location:
Calibration Date: 10/20/2009
Certification Date: 10/20/2009
Installation Date: 10/20/2009
Test Date: 11/24/2009
Time: 08:16

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    = 48.08°C

SETTINGS
Lamp Voltage   = 1.72 V
Cooler Voltage = 1.71 V
Bias Voltage   = 80.7 V
Chopper Freq   = 540.6 Hz

PUMP INFO
Flow Rate = 5.779 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0234   0.0254
MIN(V)   0.0207   0.0238

FILTER INFO
Filter 1  0.024  Zero = true
Filter 2  0.206  Zero = true
Filter 3 -0.063  Zero = true

CALIBRATION CHECK
Xq = 0.0767  0.45%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

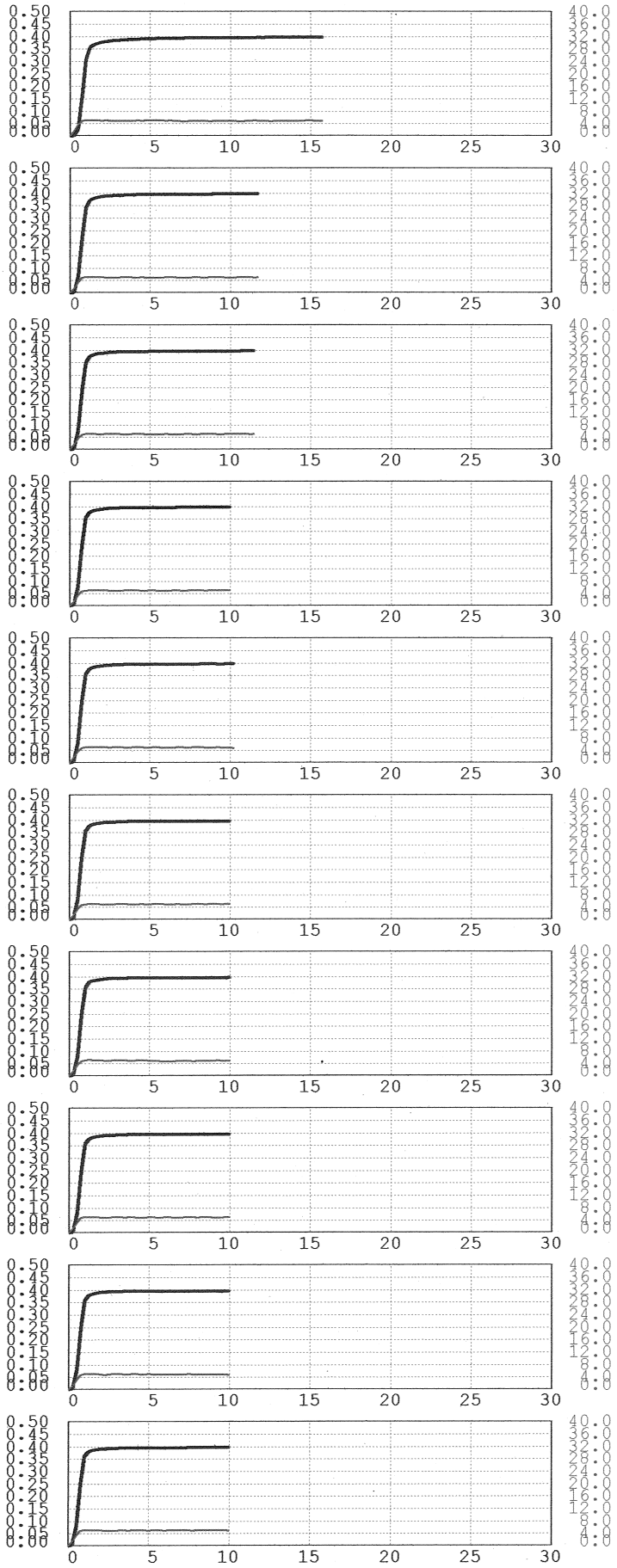
Date: 11/24/2009
Time: 08:17:57

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	08:18
CALIBRATION CHECK	PASSED	08:18
SIMULATOR VAPOR	0.395	08:19
SIMULATOR VAPOR	0.395	08:20
SIMULATOR VAPOR	0.394	08:21
SIMULATOR VAPOR	0.395	08:22
SIMULATOR VAPOR	0.394	08:23
SIMULATOR VAPOR	0.394	08:24
SIMULATOR VAPOR	0.394	08:25
SIMULATOR VAPOR	0.394	08:26
SIMULATOR VAPOR	0.393	08:27
SIMULATOR VAPOR	0.395	08:28
BLANK TEST	0.000	08:29

Average = 0.394
Std Dev = 0.0006



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

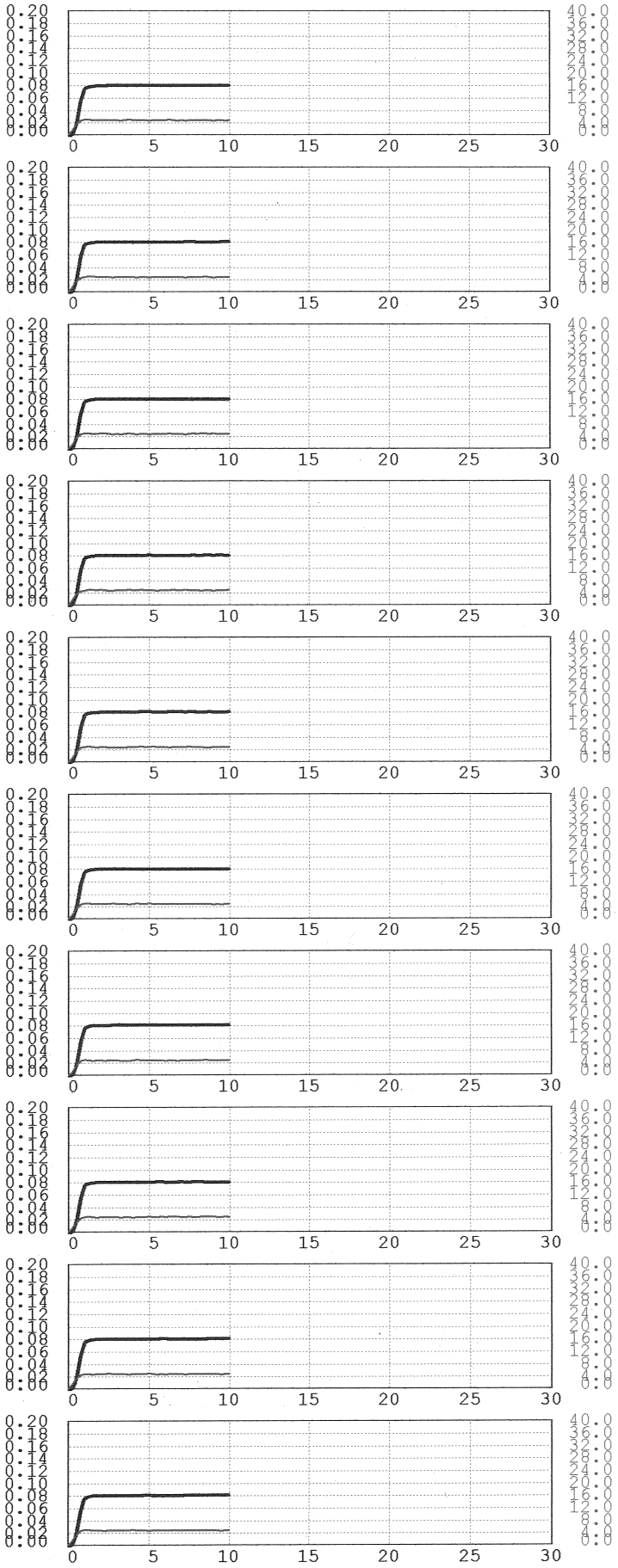
Date: 11/24/2009
Time: 08:46:21

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	08:47
CALIBRATION CHECK	PASSED	08:47
SIMULATOR VAPOR	0.080	08:47
SIMULATOR VAPOR	0.081	08:48
SIMULATOR VAPOR	0.081	08:49
SIMULATOR VAPOR	0.081	08:50
SIMULATOR VAPOR	0.081	08:51
SIMULATOR VAPOR	0.081	08:52
SIMULATOR VAPOR	0.081	08:53
SIMULATOR VAPOR	0.081	08:54
SIMULATOR VAPOR	0.081	08:55
SIMULATOR VAPOR	0.081	08:56
BLANK TEST	0.000	08:57

Average = 0.080
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

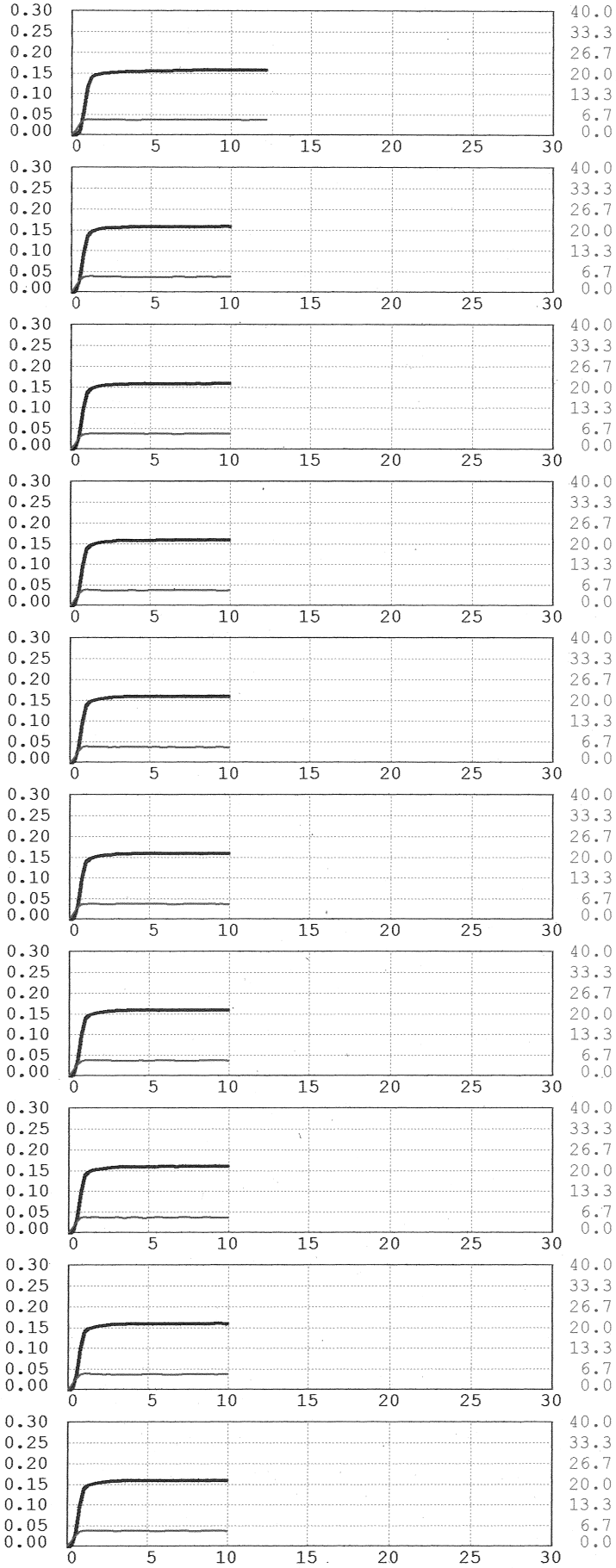
Date: 11/24/2009
Time: 12:29:24

SUPERVISOR NAME: A L B

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

BLANK TEST	0.000	12:30
CALIBRATION CHECK	PASSED	12:30
SIMULATOR VAPOR	0.157	12:30
SIMULATOR VAPOR	0.158	12:31
SIMULATOR VAPOR	0.158	12:32
SIMULATOR VAPOR	0.158	12:33
SIMULATOR VAPOR	0.159	12:34
SIMULATOR VAPOR	0.159	12:35
SIMULATOR VAPOR	0.159	12:36
SIMULATOR VAPOR	0.160	12:37
SIMULATOR VAPOR	0.159	12:38
SIMULATOR VAPOR	0.159	12:39
BLANK TEST	0.000	12:40

Average = 0.158
Std Dev = 0.0008



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

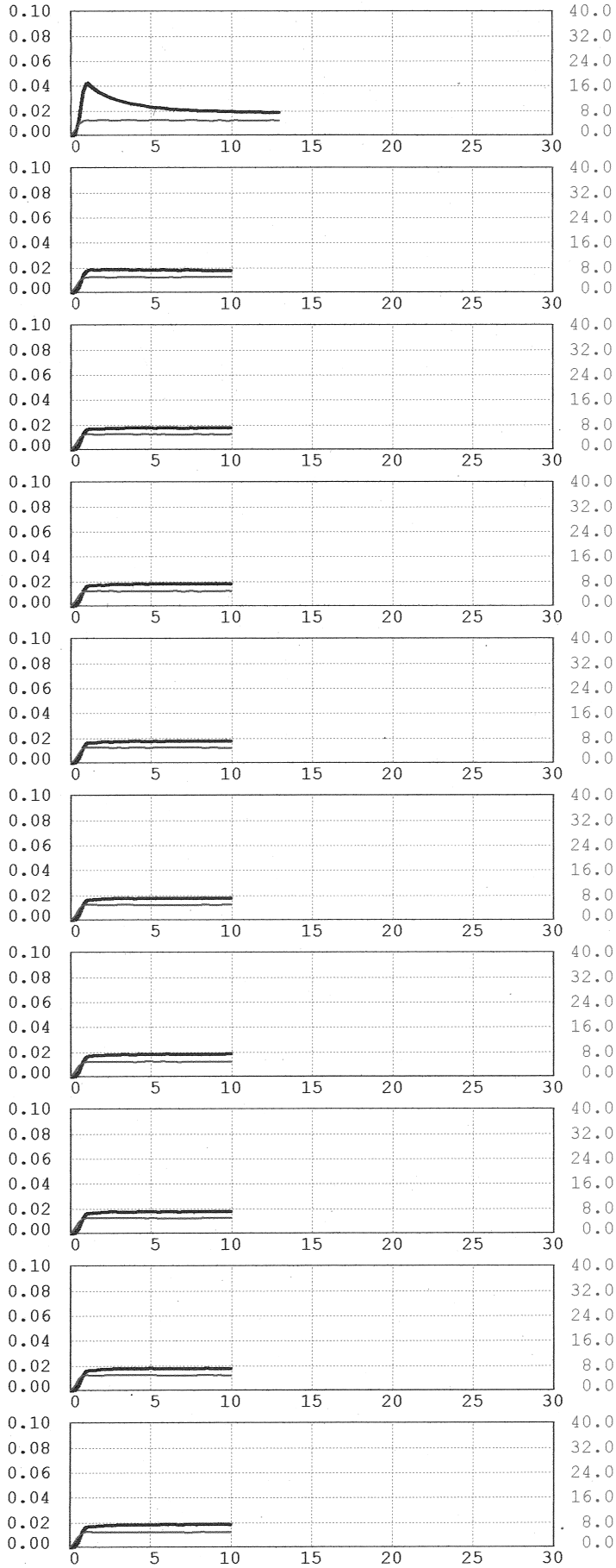
Date: 11/24/2009
Time: 17:10:30

SUPERVISOR NAME: DARCY M RICHARDSON

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

BLANK TEST	0.000	17:11
CALIBRATION CHECK	PASSED	17:11
SIMULATOR VAPOR	0.020	17:11
SIMULATOR VAPOR	0.019	17:12
SIMULATOR VAPOR	0.019	17:13
SIMULATOR VAPOR	0.020	17:14
SIMULATOR VAPOR	0.019	17:15
SIMULATOR VAPOR	0.019	17:16
SIMULATOR VAPOR	0.020	17:17
SIMULATOR VAPOR	0.019	17:18
SIMULATOR VAPOR	0.019	17:19
SIMULATOR VAPOR	0.020	17:20
BLANK TEST	0.000	17:21

Average = 0.019
Std Dev = 0.0005



Section 5: Interference

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

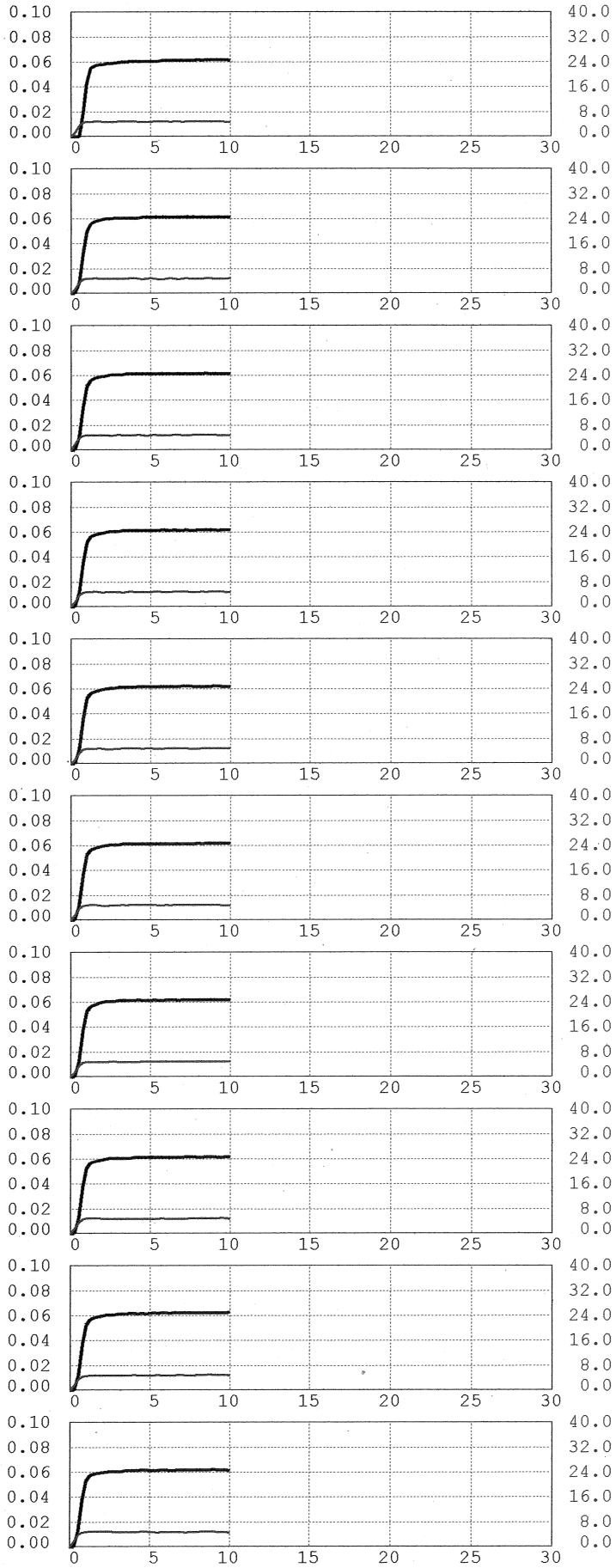
Date: 10/30/2009
Time: 08:54:19

SUPERVISOR NAME: ALB .02ACETONE IN .04ETOH

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

BLANK TEST	0.000	08:55
CALIBRATION CHECK	PASSED	08:55
SIMULATOR VAPOR	INTERFERENCE	08:55
SIMULATOR VAPOR	INTERFERENCE	08:56
SIMULATOR VAPOR	INTERFERENCE	08:57
SIMULATOR VAPOR	INTERFERENCE	08:58
SIMULATOR VAPOR	INTERFERENCE	08:59
SIMULATOR VAPOR	INTERFERENCE	09:00
SIMULATOR VAPOR	INTERFERENCE	09:01
SIMULATOR VAPOR	INTERFERENCE	09:02
SIMULATOR VAPOR	INTERFERENCE	09:03
SIMULATOR VAPOR	INTERFERENCE	09:04
BLANK TEST	0.000	09:05

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

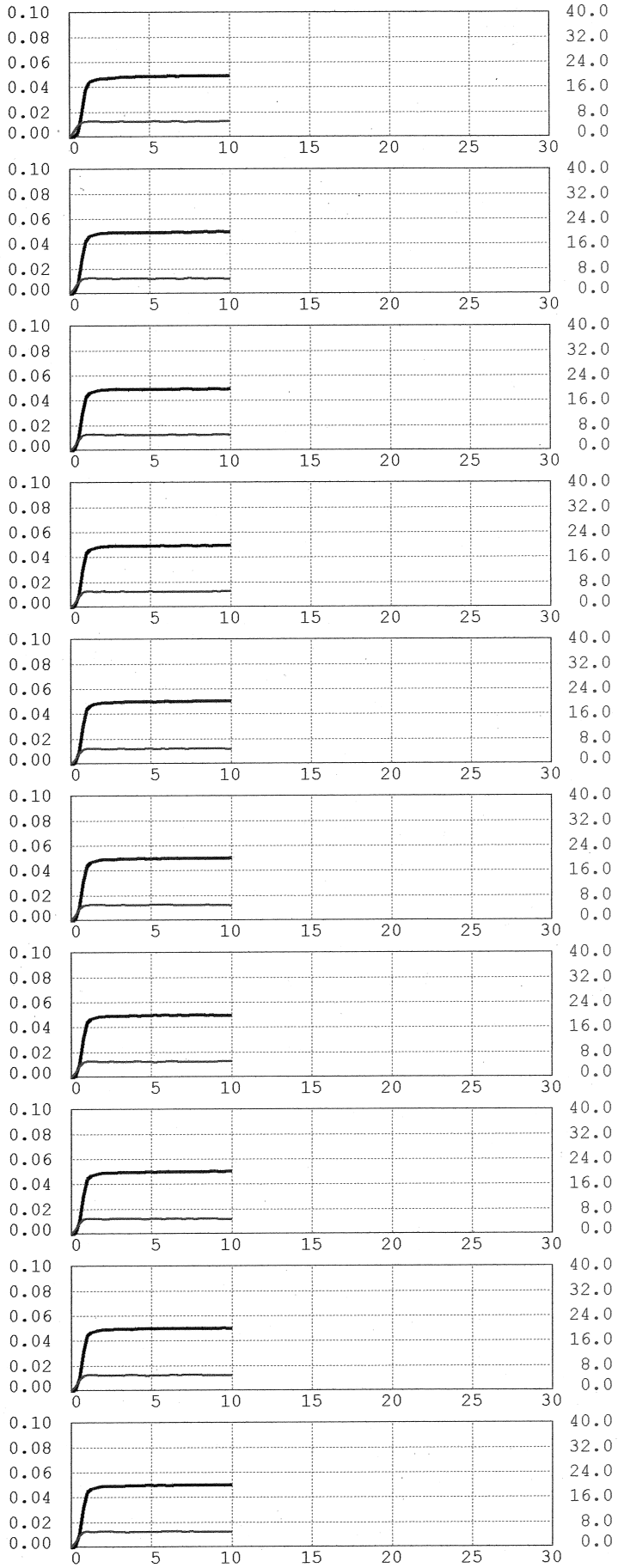
Date: 10/30/2009
Time: 09:08:45

SUPERVISOR NAME: ALB .01ACETONE IN .04ETOH

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

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

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

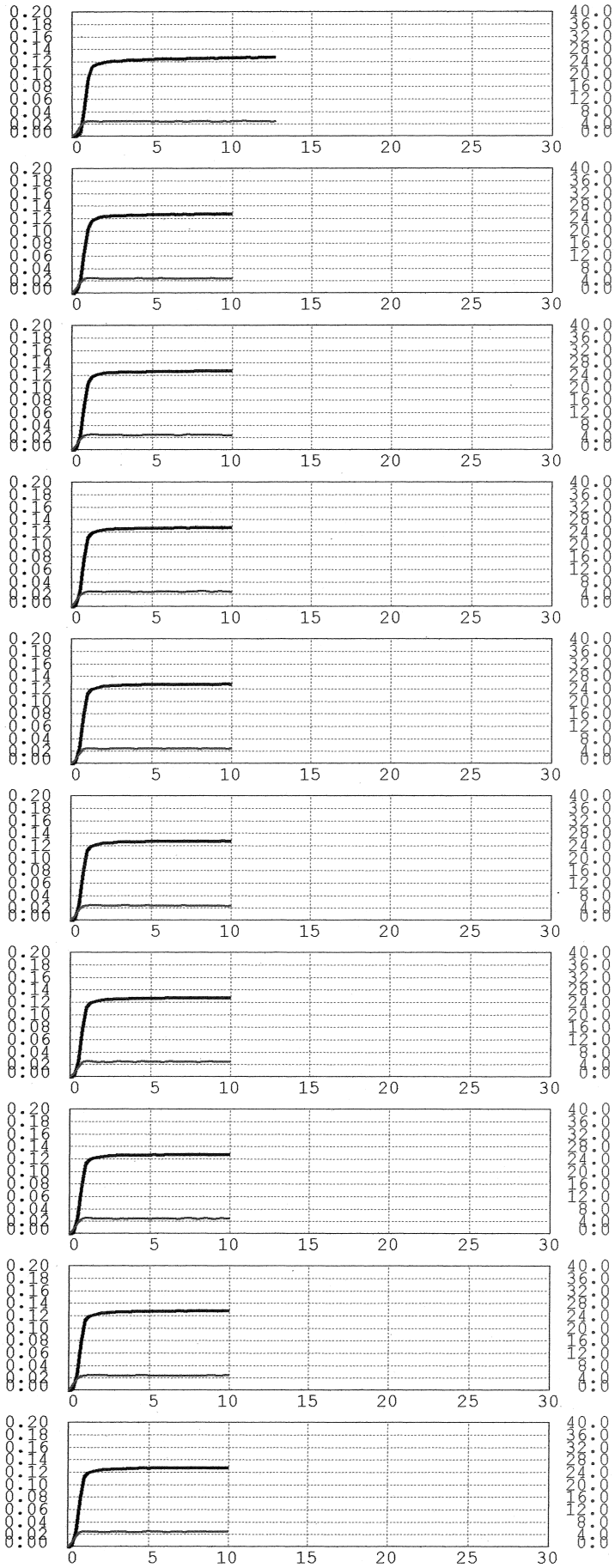
Date: 10/30/2009
Time: 09:24:50

SUPERVISOR NAME: ALB .04IPA IN .08ETOH

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

BLANK TEST	0.000	09:25
CALIBRATION CHECK	PASSED	09:25
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: 103809

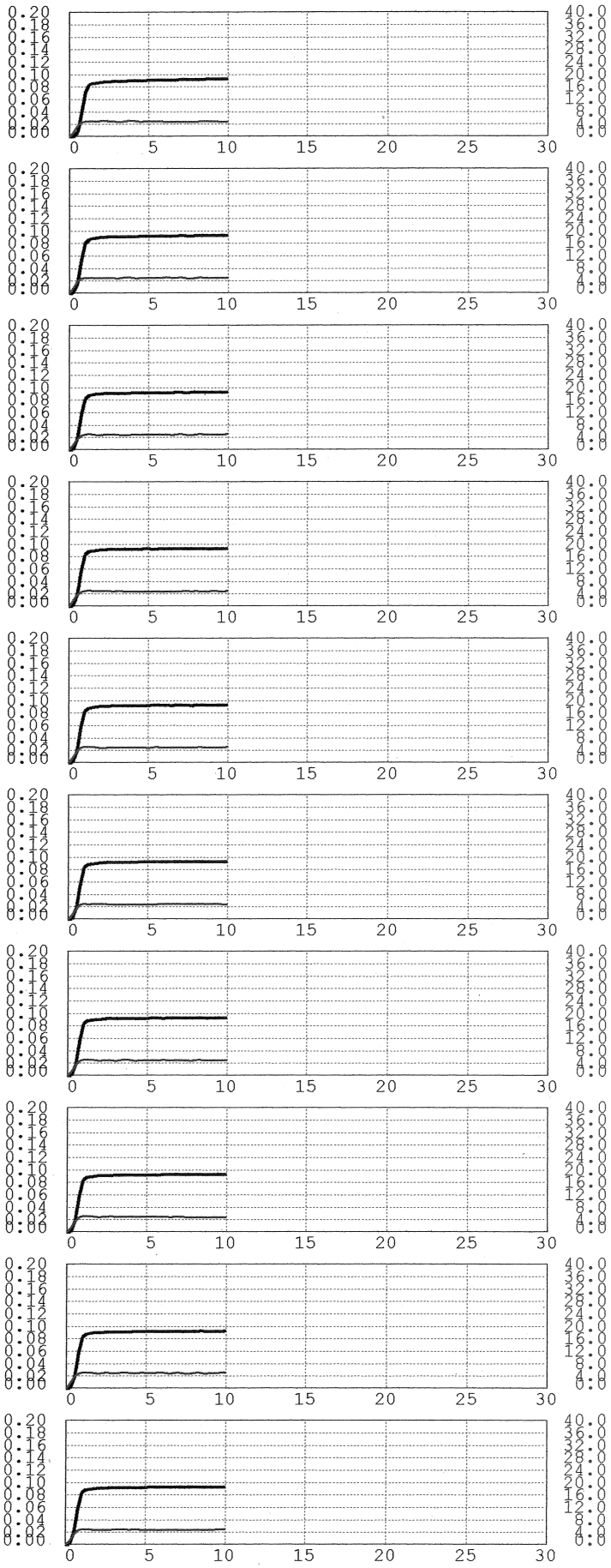
Date: 10/30/2009
Time: 09:43:15

SUPERVISOR NAME: ALB .02ACETONE IN .08ETOH

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

BLANK TEST	0.000	09:44
CALIBRATION CHECK	PASSED	09:44
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
SIMULATOR VAPOR	INTERFERENCE	09:50
SIMULATOR VAPOR	INTERFERENCE	09:51
SIMULATOR VAPOR	INTERFERENCE	09:52
SIMULATOR VAPOR	INTERFERENCE	09:53
BLANK TEST	0.000	09:54

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

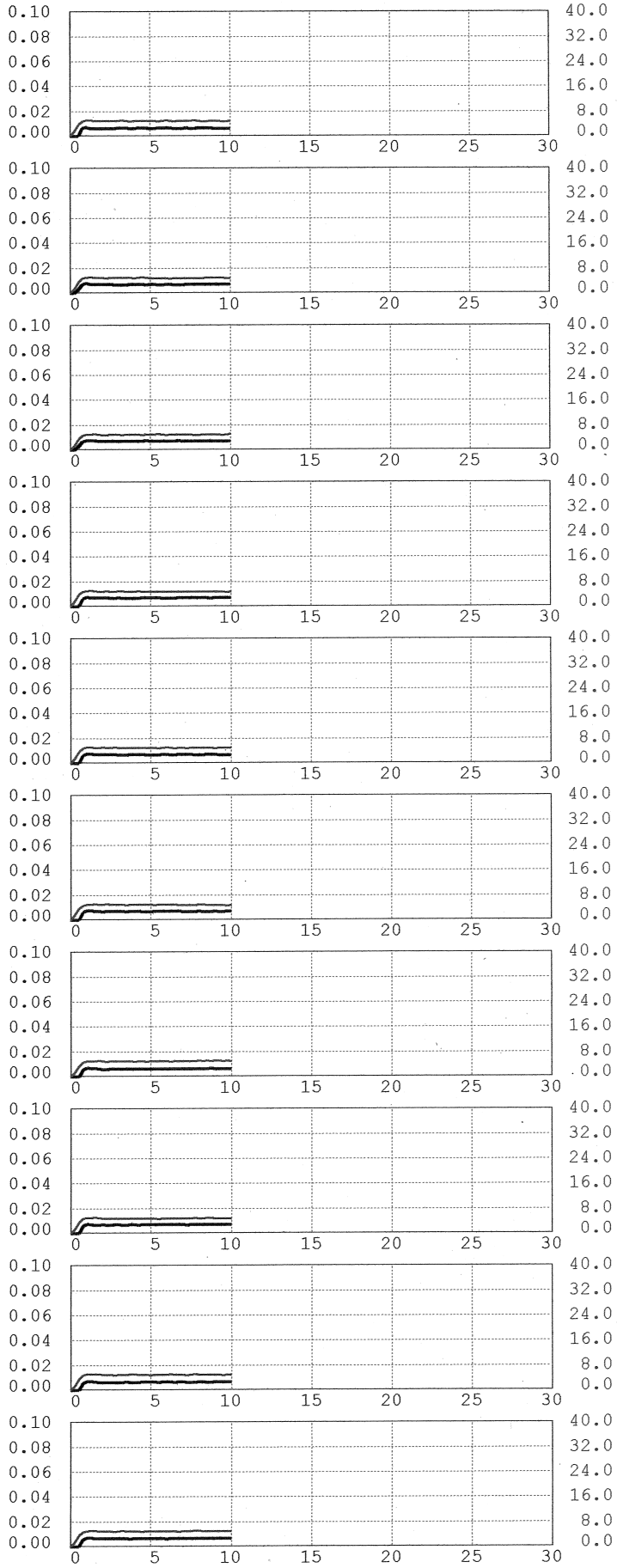
Date: 10/30/2009
Time: 09:57:28

SUPERVISOR NAME: ALB .01ACETONE IN H2O

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

BLANK TEST	0.000	09:58
CALIBRATION CHECK	PASSED	09:58
SIMULATOR VAPOR	INTERFERENCE	09:58
SIMULATOR VAPOR	INTERFERENCE	09:59
SIMULATOR VAPOR	INTERFERENCE	10:00
SIMULATOR VAPOR	INTERFERENCE	10:01
SIMULATOR VAPOR	INTERFERENCE	10:02
SIMULATOR VAPOR	INTERFERENCE	10:03
SIMULATOR VAPOR	INTERFERENCE	10:04
SIMULATOR VAPOR	INTERFERENCE	10:05
SIMULATOR VAPOR	INTERFERENCE	10:06
SIMULATOR VAPOR	INTERFERENCE	10:07
BLANK TEST	0.000	10:08

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

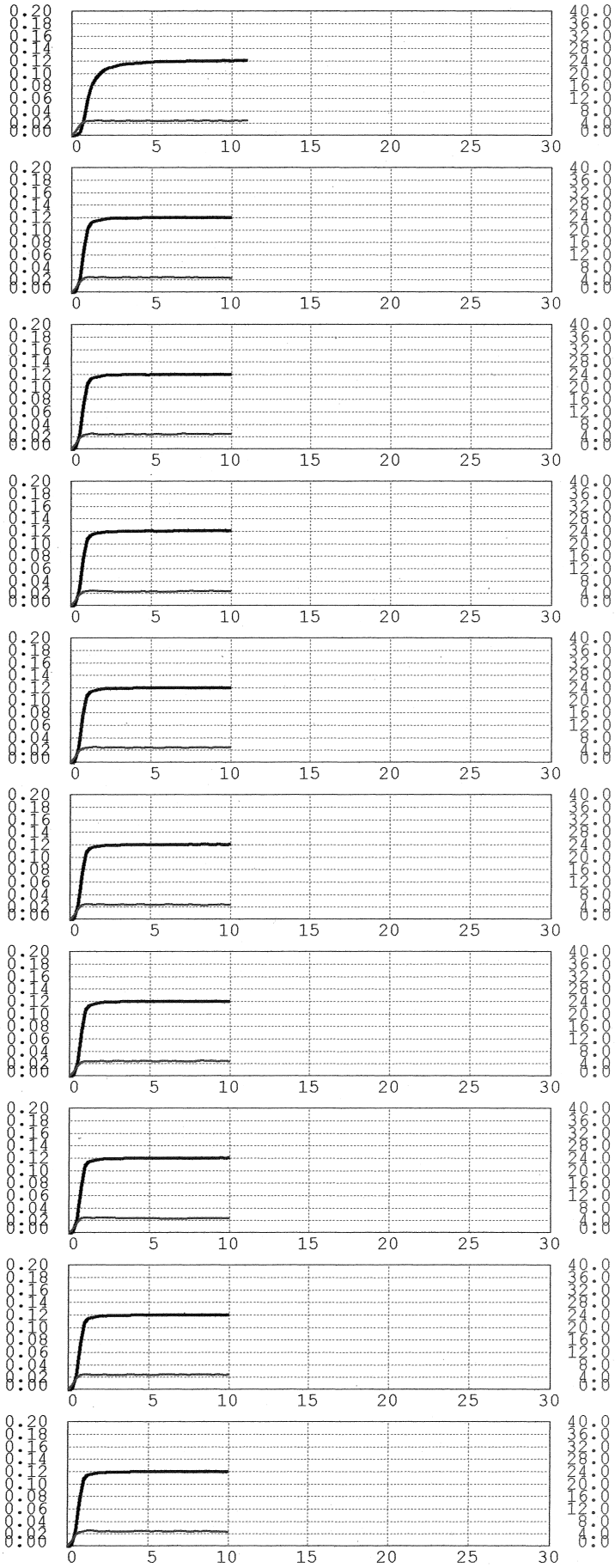
Date: 10/30/2009
Time: 10:11:53

SUPERVISOR NAME: ALB .04MEOH IN .08ETOH

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

BLANK TEST	0.000	10:12
CALIBRATION CHECK	PASSED	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
SIMULATOR VAPOR	INTERFERENCE	10:19
SIMULATOR VAPOR	INTERFERENCE	10:20
SIMULATOR VAPOR	INTERFERENCE	10:21
SIMULATOR VAPOR	INTERFERENCE	10:22
BLANK TEST	0.000	10:22

Average out of range!



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

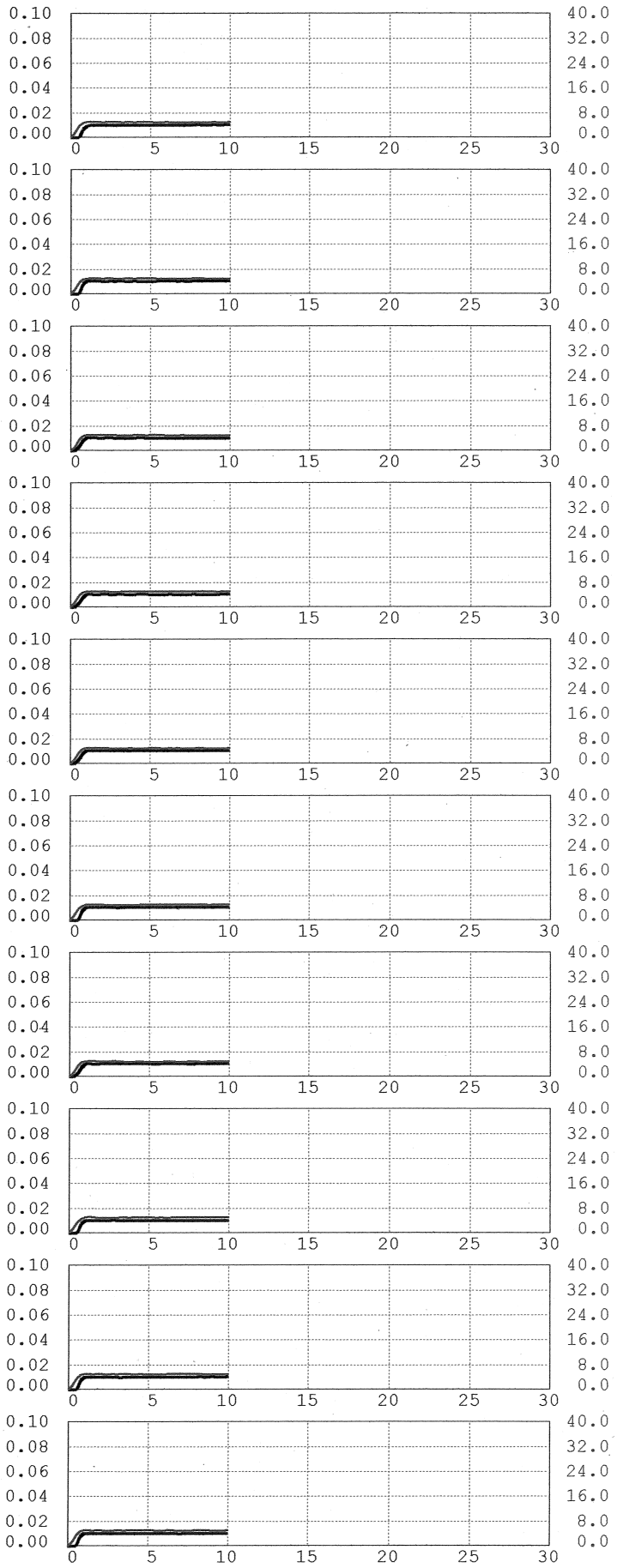
Date: 10/30/2009
Time: 10:28:21

SUPERVISOR NAME: ALB .02ACETONE IN H2O

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

BLANK TEST	0.000	10:29
CALIBRATION CHECK	PASSED	10:29
SIMULATOR VAPOR	INTERFERENCE	10:29
SIMULATOR VAPOR	INTERFERENCE	10:30
SIMULATOR VAPOR	INTERFERENCE	10:31
SIMULATOR VAPOR	INTERFERENCE	10:32
SIMULATOR VAPOR	INTERFERENCE	10:33
SIMULATOR VAPOR	INTERFERENCE	10:34
SIMULATOR VAPOR	INTERFERENCE	10:35
SIMULATOR VAPOR	INTERFERENCE	10:36
SIMULATOR VAPOR	INTERFERENCE	10:37
SIMULATOR VAPOR	INTERFERENCE	10:38
BLANK TEST	0.000	10:39

Average out of range!



Section 6: Low Level Accuracy

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 103809

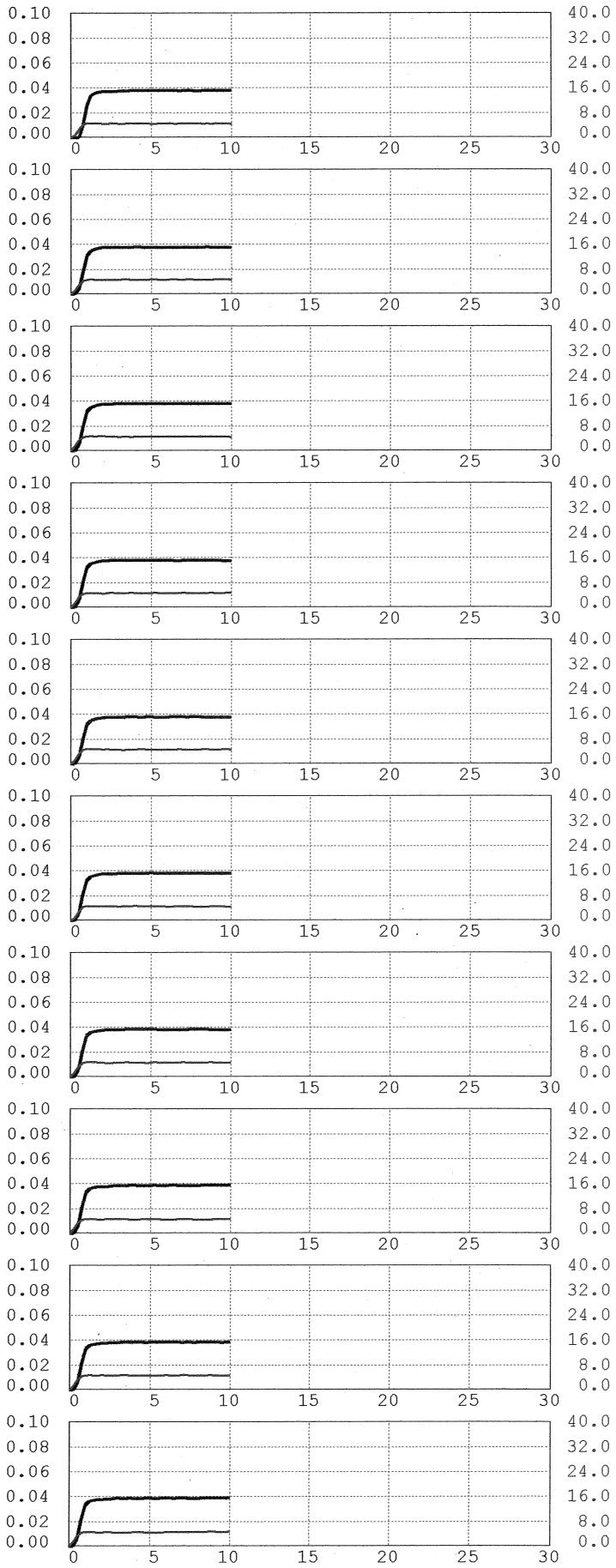
Date: 10/30/2009
Time: 13:57:54

SUPERVISOR NAME: ALB LOW LEVEL TEST

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

BLANK TEST	0.000	13:58
CALIBRATION CHECK	PASSED	13:58
SIMULATOR VAPOR	0.039	13:59
SIMULATOR VAPOR	0.038	14:00
SIMULATOR VAPOR	0.039	14:01
SIMULATOR VAPOR	0.039	14:02
SIMULATOR VAPOR	0.038	14:03
SIMULATOR VAPOR	0.039	14:04
SIMULATOR VAPOR	0.039	14:05
SIMULATOR VAPOR	0.040	14:06
SIMULATOR VAPOR	0.039	14:07
SIMULATOR VAPOR	0.040	14:08
BLANK TEST	0.000	14:08

Average = 0.039
Std Dev = 0.0006



Section 7: Breath Volume

Operator	Date	Room Temp	Humidity
ALB	11/30/2009	74.8	28%

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	2.02	2.17	2.07	2.13	2.15	2.1	2.08	2.08	2.15	2.11	2.106	4.551
	15		6	2.09	2.2	2.21	2.15	2.21	2.24	2.2	2.17	2.07	2.16	2.171	5.457
	22.5		4	2.17	2.01	2.12	2.2	1.99	2.09	1.98	1.87	1.9	2.31	2.037	13.91
2.5 L	10		15	3.42	3.42	3.47	3.32	3.31	3.34	3.49	3.44	3.51	3.48	3.413	7.303
	15		10	3.23	3.45	3.31	3.49	3.32	3.49	3.31	3.22	3.42	3.26	3.360	10.41
	25		6	3.13	3.1	3.2	3.16	3.24	3.09	3.16	3.44	3.29	3.17	3.201	10.45

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, .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. VOHL to retest all units with correct 0.04 IPA solution.