DATAMASTER DMT 121506

VERMONT DEPARTMENT OF HEALTH LABORATORY

PERFORMANCE TESTING RESULTS

APRIL 30, 2008

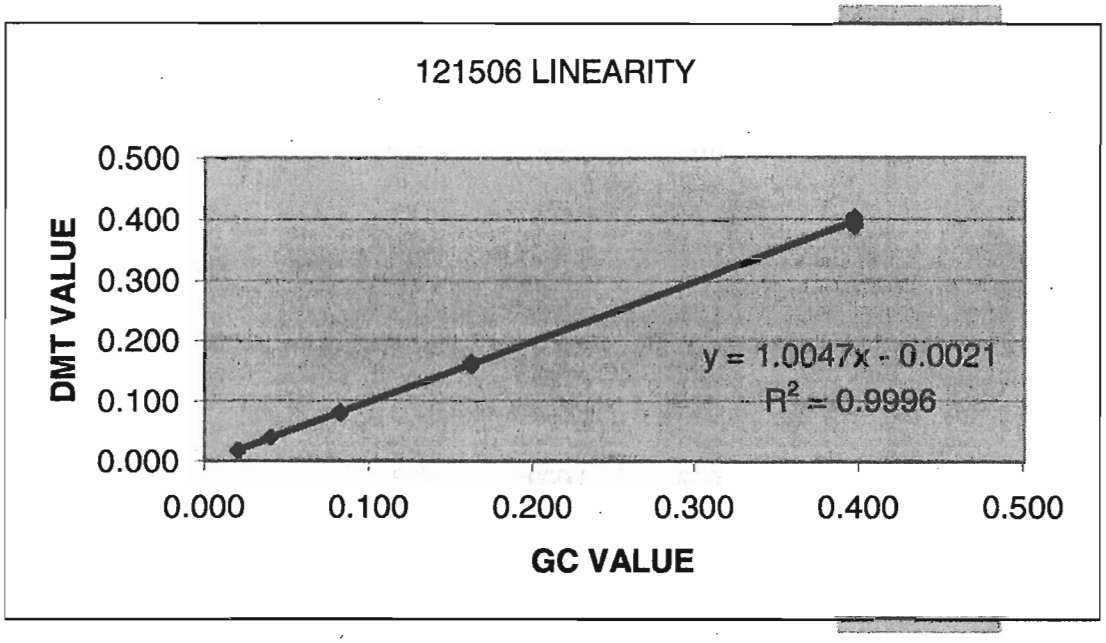
Table of Contents

Section 1: Results	1-1 through 1-4
Section 2: Power-Up Test	2-1 through 2-10
Section 3: Software/Reports Test	3-1
Section 4: Linearity	4-1 through 4-49
Section 5: Interference	5-1 through 5-23
Section 6: Mouth Alcohol	6-1 through 6-8
Section 7: Temperature Monitoring	7-1
Section 8: Breath Volume	8-1
Section 9: Low Level Accuracy	9-1
Section 10: Calibration Stability	10-1
Section 11: Error Reports	11-1 through 11-4
Section 12: Live Subject Tests	12-1
Section 13: Communication Notes	13-1

Section 1: Results

121506

Operator	Date	Lot #	GC Value	DMT Result	Std Dev	% Recovery	
ALB	3/14/2008	07-08-160	0.162	0.164	0.0004	101.2	Outside 5%
		07-15-020	0.020	0.017	0.0003	85.0	Outside 10%
		07-09-080	0.082	0.080	0.0005	97.6	
		07-12-400	0.397	0.400	0.0007	100.8	
DMR	3/19/2008	07-12-400	0.397	0.399	0.0007	100.5	
		07-08-160	0.162	0.164	0.0003	101.2	
		07-15-020	0.020	0.018	0.0003	90.0	
		07-09-080	0.082	0.080	0.0005	97.6	
SH	3/19/2008	07-08-160	0.162	0.163	0.0005	100.6	
		07-12-400	0.397	0.398	0.0007	100.3	
		07-09-080	0.082	0.081	0.0013	98.8	
		07-15-020	0.020	0.018	0.0005	90.0	
ALB	3/20/2008	07-15-020	0.020	0.018	0.0000	90.0	
		07-09-080	0.082	0.079	0.0005	96.3	
		07-12-400	0.397	0.395	0.0005	99.5	
		07-08-160	0.162	0.162	0.0006	100.0	
	3/20/2008	07-08-160	0.162	0.162	0.0003	100.0	manual calculation
		07-09-080	0.082	0.080	0.0000	97.6	
		07-15-020	0.020	0.018	0.0000	90.0	
		07-12-400	0.397	0.395	0.0008	99.5	
		07-08-160	0.162	0.162	0.0003	100.0	manual calculation
SH	3/21/2008	07-09-080	0.082	0.079	0.0000	96.3	
		07-12-400	0.397	0.393	0.0005	99.0	
		07-15-020	0.020	0.017	0.0005	85.0	
		07-08-160	0.162	0.160	0.0007	98.8	
HXB	3/24/2008	07-08-160	0.162	0.159	0.0005	98.1	
		07-09-080	0.082	0.078	0.0005	95.1	
		07-15-020	0.020	0.017	0.0003	85.0	
		07-12-400	0.397	0.390	0.0006	98.2	
DMR	3/25/2008	07-08-160	0.162	0.158	0.0005	97.5	
		07-12-400	0.397	0.389	0.0008	98.0	
		07-09-080	0.082	0.078	0.0005	95.1	
		07-15-020	0.020	0.018	0.0000	90.0	
RJD	3/26/2008	07-15-020	0.020	0.018	0.0004	90.0	manual calculation
		07-12-400	0.397	0.404	0.0009	101.9	manual calculation
		07-08-160	0.162	0.166	0.0009	102.5	manual calculation
		07-09-080	0.082	0.082	0.0003	100.0	manual calculation
DMR	4/3/2008	07-08-160	0.162	0.163	0.0007	100.6	
		07-15-020	0.020	0.018	0.0000	90.0	
		07-09-080	0.082	0.080	0.0000	97.6	
		07-12-400	0.397	0.401	0.0007	101.0	
ALB	3/14/2008	08-10-400	0.040	0.039	0.0003	97.5	


121506 LINEARITY
DMT VALUE
0.500
0.400
0.300
0.200
0.100
0.000
0.000
0.100
0.200
0.300
0.400
0.500
GC VALUE
y = 1.0047x - 0.0021
R² = 0.9996

Operator	Date	Concentration	Lot Number	DMT Result	Apparent EtOH	N = 10
ALB	04/10/08	0.01 Acetone in water	09-20-070A1	INTERFERENCE	0.004	
DMR	04/10/08	0.01 Acetone in water	09-20-070A1	INTERFERENCE	0.003	
SH	04/10/08	0.02 Acetone in water	09-20-070A2	INTERFERENCE	0.006	
RJD	04/11/08	0.02 Acetone in water	09-20-070A2	INTERFERENCE	0.006	
ALB	04/10/08	.01 Acetone in .08 EtOH	07-09-080A1	INTERFERENCE	0.087	
DMR	04/10/08	.01 Acetone in .08 EtOH	07-09-080A1	INTERFERENCE	0.088	
HXB	04/10/08	.01 Acetone in .08 EtOH	07-09-080A1	INTERFERENCE	0.087	
ALB	04/10/08	.01 Acetone in .04 EtOH	07-14-040A1	INTERFERENCE	0.045	
DMR	04/10/08	.01 Acetone in .04 EtOH	07-14-040A1	INTERFERENCE	0.045	
DMR	04/15/08	.02Acetone in .08 EtOH	07-09-080A2	INTERFERENCE	0.092	
SH	04/16/08	.02Acetone in .08 EtOH	07-09-080A2	INTERFERENCE	0.091	
DMR	04/15/08	.02 Acetone in .04 EtOH	07-14-040B	INTERFERENCE	0.048	
ALB	04/15/08	.02 Acetone in .04 EtOH	07-14-040B	INTERFERENCE	0.049	
ALB	04/15/08	.04 MeOH in water	08-12-040M	INTERFERENCE	0.017	
ALB	04/15/08	.04 MeOH in water	08-12-040M	INTERFERENCE	0.017	
ALB	04/15/08	.04 MeOH in .08 EtOH	07-09-080M4	INTERFERENCE	0.103	
DMR	04/15/08	.04 MeOH in .08 EtOH	07-09-080M4	INTERFERENCE	0.103	
SH	04/16/08	.04 IPA in water	08-13-040I	INTERFERENCE	0.024	
HXB	04/16/08	.04 IPA in water	08-13-040I	INTERFERENCE	0.023	
SH	04/16/08	.04 IPA in .08 EtOH	07-09-080I4	INTERFERENCE	0.11	
HXB	04/16/08	.04 IPA in .08 EtOH	07-09-080I4	INTERFERENCE	0.11	
			Interference = 10 out of 10 interferent detected			

Operator	Date	DMT Result	
ALB	4/4/2008	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		Invalid	
		Invalid	
		0.08	
		0.08	
SH	4/4/2008	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		0.079	
		0.077	
		0.076	
		0.076	
		0.076	
HXB	4/4/2008	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		0.07	
DMR	4/8/2008	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		Invalid	
		0.074	
		Invalid	
		Invalid	
RJD	4/8/2008	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	

Section 2: Power-Up Test

National Patent Analytical Systems, Inc.

Certificate of Calibration

121506

Instrument Serial Number

Guth 0012

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.

2-7-08

Date

Technician

CALIBRATION REPORT

DataMaster DMT: 121506
Calibration Date: 03/10/2008
Calibrated by: A L B

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.100000
CAL =  0.974474    0.800 <= CAL < 1.200
b1  =  0.000815    0.000 <=  b1 < 0.004
b2  =  0.005867    0.002 <=  b2 < 0.013
b3  =  0.000000    0.000 <=  b3 < 0.004
Xq  =  0.098127    0.050 <=  Xq < 0.200
a21 =  1.148430    1.050 <= a21 < 1.300
a31 =  0.446369    0.300 <= a31 < 0.800
```

Performed by x_____ Date 03/10/2008

03/10/2008 13:40

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 03/10/2008
Time: 15:04

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.68°C
Breath Tube    = 45.68°C
Digital Sim    = 0.0°C

SETTINGS
Lamp Voltage   = 1.72 V
Cooler Voltage = 1.64 V
Bias Voltage   = 81.0 V
Chopper Freq   = 539.4 Hz

PUMP INFO
Flow Rate = 4.584 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0801   0.0833
MIN(V)   0.0770   0.0815

FILTER INFO
Filter 1  0.081  Zero = true
Filter 2  0.528  Zero = true
Filter 3  0.082  Zero = true

INTERNAL STANDARD
Xq = 0.0985  0.45%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

Date: 03/10/2008
Time: 13:46:29

FILTER WHEEL ERROR

ACCURACY AND PRECISION TEST

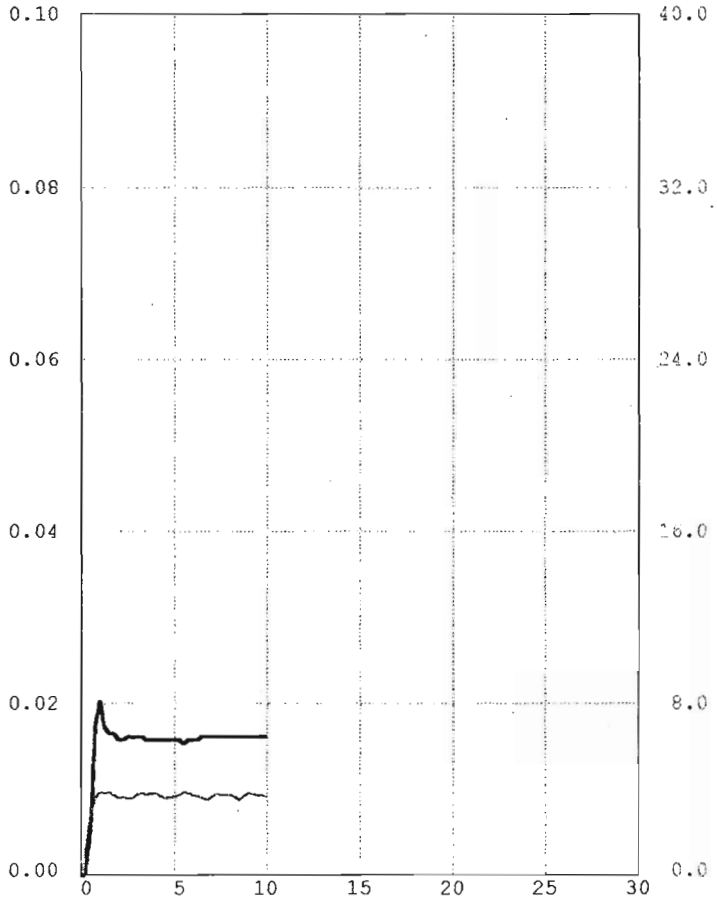
STATE OF VERMONT

DataMaster DMT: 121506

Date: 03/10/2008
Time: 13:50:34

BLANK TEST	0.000	13:51
INTERNAL STANDARD	PASSED	13:51
SIMULATOR VAPOR (34.0°C)	0.017	13:51

FILTER WHEEL ERROR



03/10/2008 13:52

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 03/11/2008
Time: 08:56

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 49.26°C
Breath Tube    = 45.07°C
Digital Sim    = 0.0°C

SETTINGS
Lamp Voltage   = 1.71 V
Cooler Voltage = 1.64 V
Bias Voltage   = 80.9 V
Chopper Freq   = 533.1 Hz

PUMP INFO
Flow Rate = 4.606 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0874   0.0921
MIN(V)   0.0850   0.0900

FILTER INFO
Filter 1  0.090  Zero = true
Filter 2  0.532  Zero = true
Filter 3  0.089  Zero = true

INTERNAL STANDARD
Xq = 0.0970  1.07%
```

03/11/2008 08:57

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 03/14/2008
Time: 08:54

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.63°C
Breath Tube    = 44.12°C
Digital Sim    = 0.0°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.64 V
Bias Voltage   = 80.9 V
Chopper Freq   = 538.7 Hz

PUMP INFO
Flow Rate = 4.505 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)  -0.0535   -0.0498
MIN(V)  -0.0557   -0.0520

FILTER INFO
Filter 1 -0.051  Zero = true
Filter 2  0.428  Zero = true
Filter 3 -0.052  Zero = true

INTERNAL STANDARD
Xq = 0.1459  48.69%
```

03/14/2008 08:55

CALIBRATION REPORT

DataMaster DMT: 121506
Calibration Date: 03/14/2008
Calibrated by: A L B

VERMONT
DEPARTMENT OF HEALTH

```
Ca  =  0.100000
CAL =  0.977171    0.800 <= CAL < 1.200
b1  =  0.000000    0.000 <=  b1 < 0.004
b2  =  0.004757    0.002 <=  b2 < 0.013
b3  =  0.000000    0.000 <=  b3 < 0.004
Xq  =  0.146088    0.050 <=  Xq < 0.200
a21 =  1.181969    1.050 <= a21 < 1.300
a31 =  0.488966    0.300 <= a31 < 0.800
```

Performed by _____ **Date** 03/14/2008

03/14/2008 09:05

CERTIFICATION REPORT

DataMaster DMT: 121506
Calibration Date:
Certification Date: 03/14/2008
Certified by: A L B

VERMONT
DEPARTMENT OF HEALTH

Diagnostic Results

VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.68°C
Breath Tube = 43.29°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.66 V
Cooler Voltage = 1.64 V
Bias Voltage = 81.0 V
Chopper Freq = 538.8 Hz

PUMP INFO
Flow Rate = 4.477 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0551	-0.0514
MIN(V)	-0.0571	-0.0535

FILTER INFO
Filter 1 -0.054 Zero = true
Filter 2 0.427 Zero = true
Filter 3 -0.053 Zero = true

INTERNAL STANDARD
Xq = 0.1460 0.00%

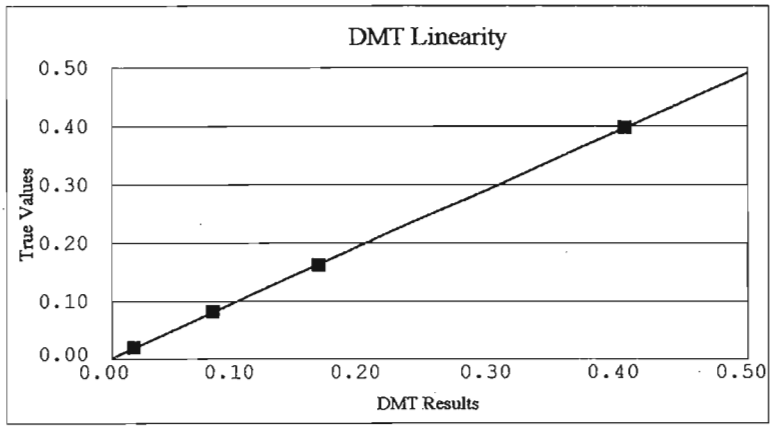
Options

Printer: yes
Number of Copies: 1
Number of Supervisor Tests: 10
Tolerance Check: yes
Data Collection: yes
Units: g/210L
Simulator Check: yes
Uses Wet Bath Simulator: yes
Simulator Nominal: 0.100
Dry Gas PPM: 260.500
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 PPM: 260.500

Linearity Check Results

True Value	Reported Average	Std Dev
0.020g/210L Lot # 07-15-020	0.018g/210L	0.0000
0.082g/210L Lot # 07-09-080	0.081g/210L	0.0000
0.162g/210L Lot # 07-08-160	0.165g/210L	0.0005
0.397g/210L Lot # 07-12-400	0.403g/210L	0.0009

$R^2 = 1.0000$



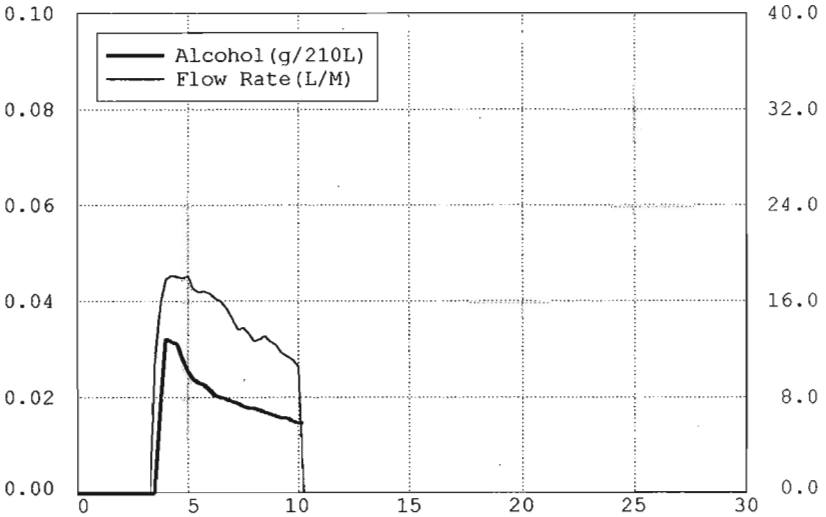
Acetone Interference Test

Lot # 02-07-100

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

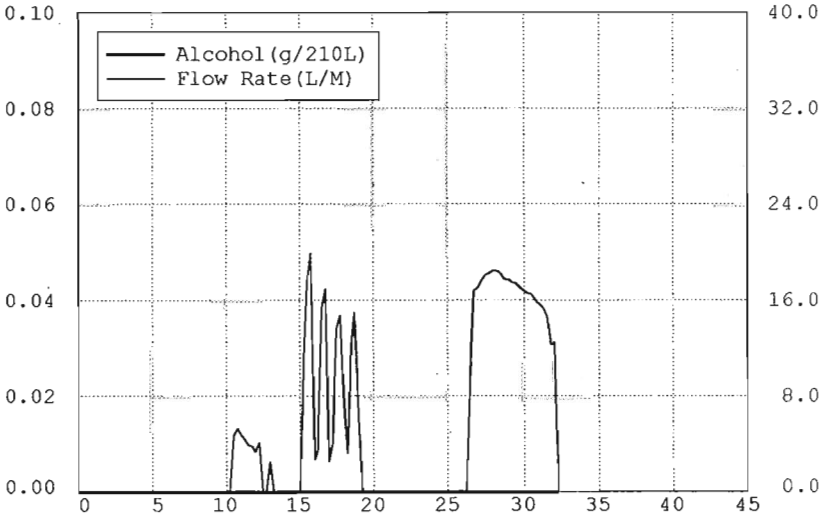


RFI Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ **Date** 03/14/2008

Reviewed by _____ **Date** _____

Section 3: Software/Reports Test

This Instrument not tested for this specification

Section 4: Linearity

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date: 03/14/2008
Installation Date: 03/14/2008
Test Date: 03/19/2008
Time: 11:53

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.86°C
Breath Tube    = 47.12°C
Digital Sim    = 33.7°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.64 V
Bias Voltage   = 81.0 V
Chopper Freq   = 543.7 Hz

PUMP INFO
Flow Rate = 4.504 L/M

DETECTOR INFO
PUMP    ON        OFF
MAX(V) -0.0789  -0.0774
MIN(V) -0.0805  -0.0797

FILTER INFO
Filter 1 -0.080  Zero = true
Filter 2  0.409  Zero = true
Filter 3 -0.080  Zero = true

INTERNAL STANDARD
Xq = 0.1465  0.31%
```

03/19/2008 11:54

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

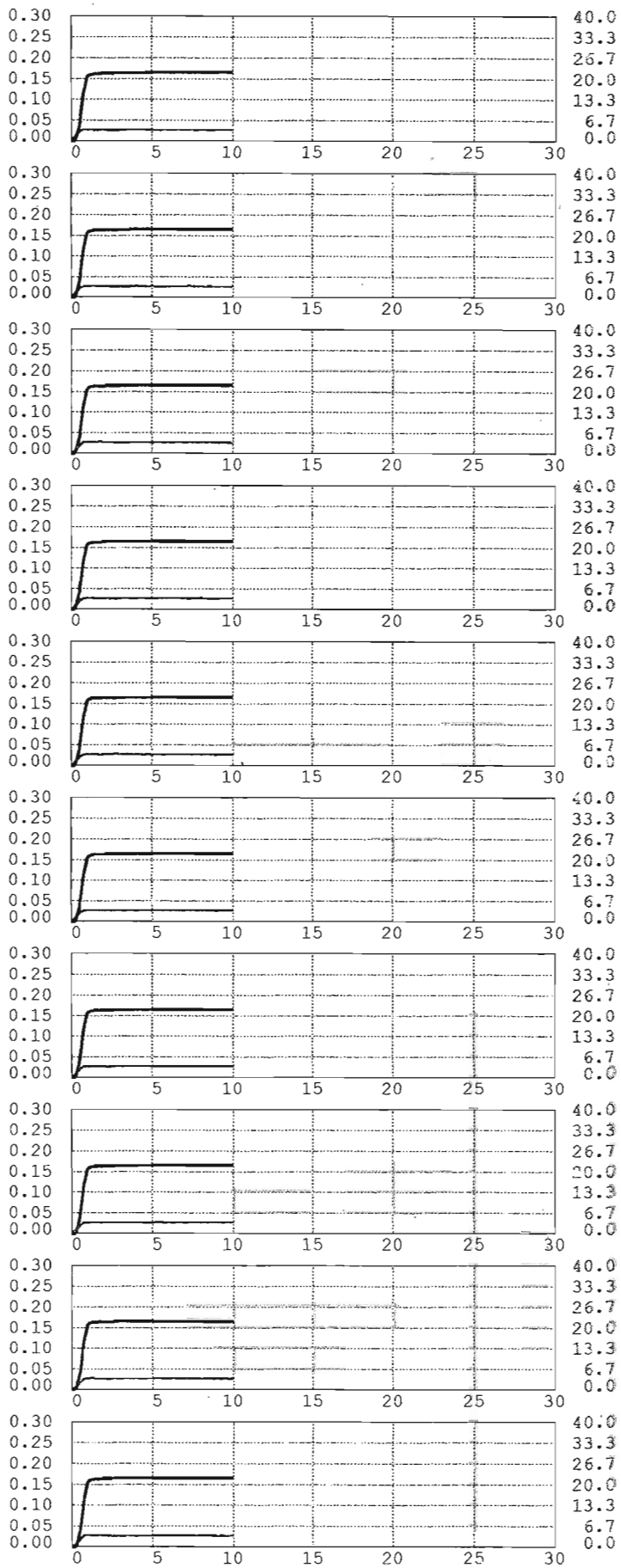
Date: 03/14/2008
Time: 13:49:37

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	13:50
INTERNAL STANDARD	PASSED	13:50
Xq = 0.1466 (0.378)		
SIMULATOR VAPOR (33.7°C)	0.165	13:50
X[1] = 0.1654 (-0.0009) (0.0049)		
SIMULATOR VAPOR (33.7°C)	0.165	13:51
X[1] = 0.1653 (-0.0008) (0.0049)		
SIMULATOR VAPOR (33.7°C)	0.165	13:52
X[1] = 0.1652 (-0.0012) (0.0045)		
SIMULATOR VAPOR (33.7°C)	0.165	13:53
X[1] = 0.1651 (-0.0017) (0.0045)		
SIMULATOR VAPOR (33.7°C)	0.165	13:54
X[1] = 0.1654 (-0.0009) (0.0045)		
SIMULATOR VAPOR (33.7°C)	0.165	13:55
X[1] = 0.1655 (-0.0014) (0.0047)		
SIMULATOR VAPOR (33.7°C)	0.165	13:56
X[1] = 0.1652 (-0.0017) (0.0047)		
SIMULATOR VAPOR (33.7°C)	0.164	13:57
X[1] = 0.1649 (-0.0016) (0.0049)		
SIMULATOR VAPOR (33.7°C)	0.165	13:58
X[1] = 0.1653 (-0.0008) (0.0051)		
SIMULATOR VAPOR (33.7°C)	0.164	13:59
X[1] = 0.1648 (-0.0024) (0.0044)		
BLANK TEST	0.000	14:00

Average = 0.1648
Std Dev = 0.0004



05/19/2008 09:57

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

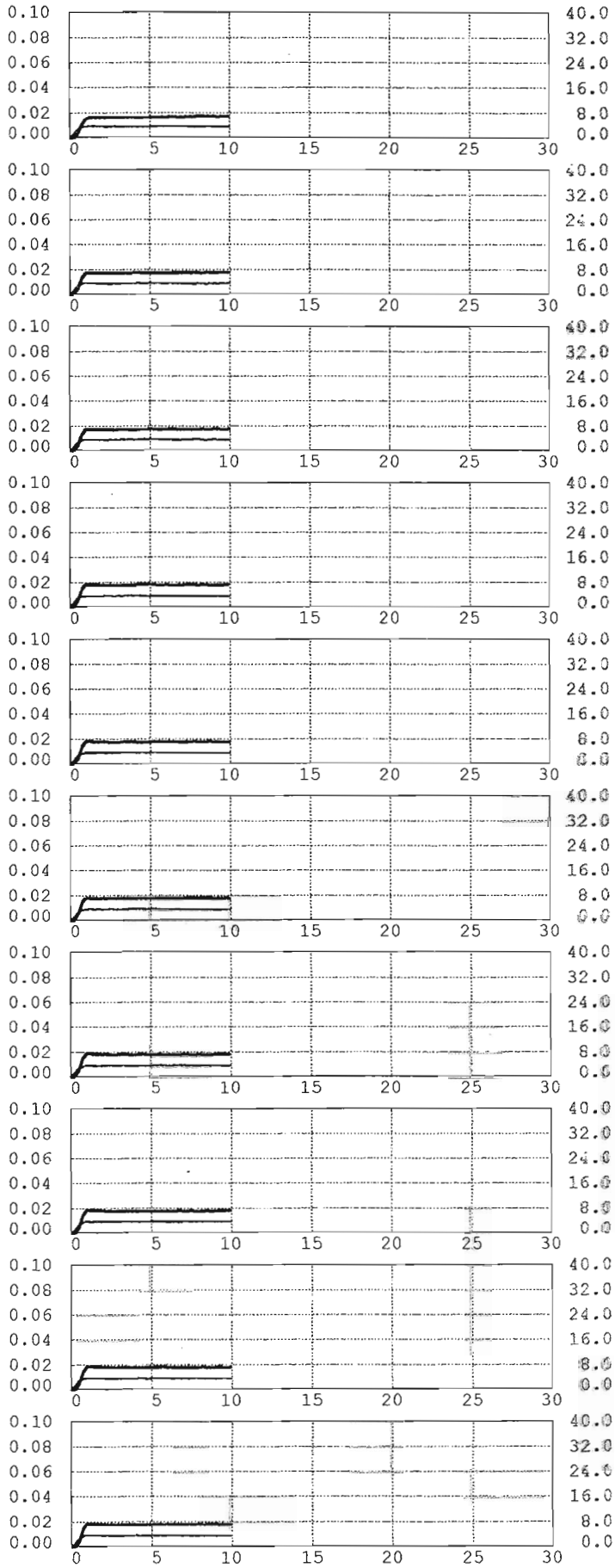
Date: 03/14/2008
Time: 14:36:36

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	14:37
INTERNAL STANDARD	PASSED	14:37
Xq = 0.1458 (0.19%)		
SIMULATOR VAPOR (34.0°C)	0.017	14:37
X[1] = 0.0177 (-0.0017) (0.0010)		
SIMULATOR VAPOR (34.0°C)	0.018	14:38
X[1] = 0.0183 (-0.0017) (0.0013)		
SIMULATOR VAPOR (34.0°C)	0.018	14:39
X[1] = 0.0183 (-0.0015) (0.0005)		
SIMULATOR VAPOR (33.9°C)	0.018	14:40
X[1] = 0.0185 (-0.0015) (0.0010)		
SIMULATOR VAPOR (34.0°C)	0.018	14:41
X[1] = 0.0184 (-0.0018) (0.0012)		
SIMULATOR VAPOR (33.9°C)	0.018	14:42
X[1] = 0.0184 (-0.0020) (0.0006)		
SIMULATOR VAPOR (33.9°C)	0.018	14:43
X[1] = 0.0183 (-0.0019) (0.0013)		
SIMULATOR VAPOR (33.9°C)	0.018	14:44
X[1] = 0.0186 (-0.0019) (0.0010)		
SIMULATOR VAPOR (34.0°C)	0.018	14:45
X[1] = 0.0185 (-0.0021) (0.0013)		
SIMULATOR VAPOR (33.9°C)	0.018	14:46
X[1] = 0.0184 (-0.0016) (0.0011)		
BLANK TEST	0.000	14:47

Average = 0.0179
Std Dev = 0.0003



05/19/2008 09:58

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

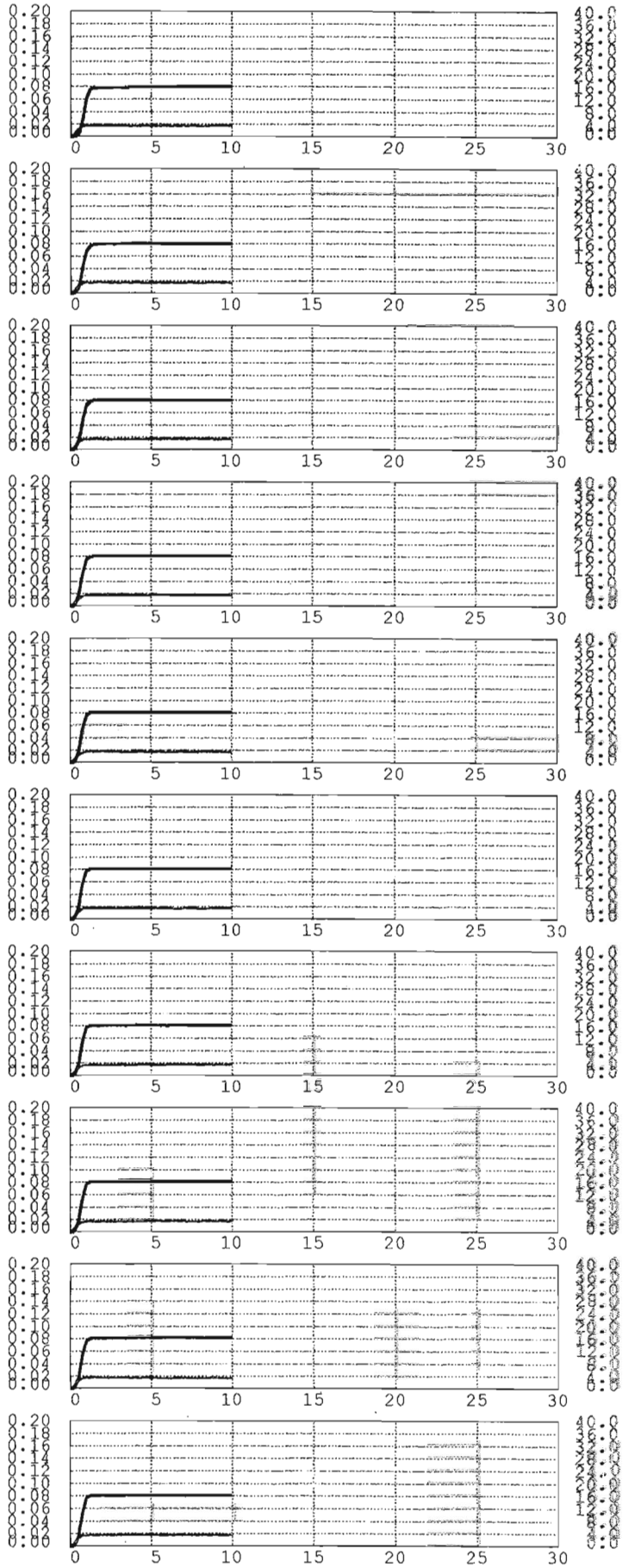
Date: 03/14/2008
Time: 14:52:28

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	14:53
INTERNAL STANDARD	PASSED	14:53
Xq = 0.1471 (0.74%)		
SIMULATOR VAPOR (33.7°C)	0.080	14:53
X[1] = 0.0800 (-0.0011) (0.0034)		
SIMULATOR VAPOR (33.6°C)	0.080	14:54
X[1] = 0.0806 (-0.0018) (0.0030)		
SIMULATOR VAPOR (33.7°C)	0.080	14:55
X[1] = 0.0807 (-0.0024) (0.0028)		
SIMULATOR VAPOR (33.7°C)	0.081	14:56
X[1] = 0.0816 (-0.0009) (0.0033)		
SIMULATOR VAPOR (33.7°C)	0.081	14:57
X[1] = 0.0814 (-0.0018) (0.0032)		
SIMULATOR VAPOR (33.7°C)	0.081	14:58
X[1] = 0.0816 (-0.0015) (0.0031)		
SIMULATOR VAPOR (33.7°C)	0.081	14:59
X[1] = 0.0811 (-0.0018) (0.0028)		
SIMULATOR VAPOR (33.7°C)	0.081	15:00
X[1] = 0.0813 (-0.0019) (0.0031)		
SIMULATOR VAPOR (33.6°C)	0.081	15:01
X[1] = 0.0817 (-0.0014) (0.0031)		
SIMULATOR VAPOR (33.7°C)	0.081	15:02
X[1] = 0.0813 (-0.0018) (0.0031)		
BLANK TEST	0.000	15:03

Average = 0.0807
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

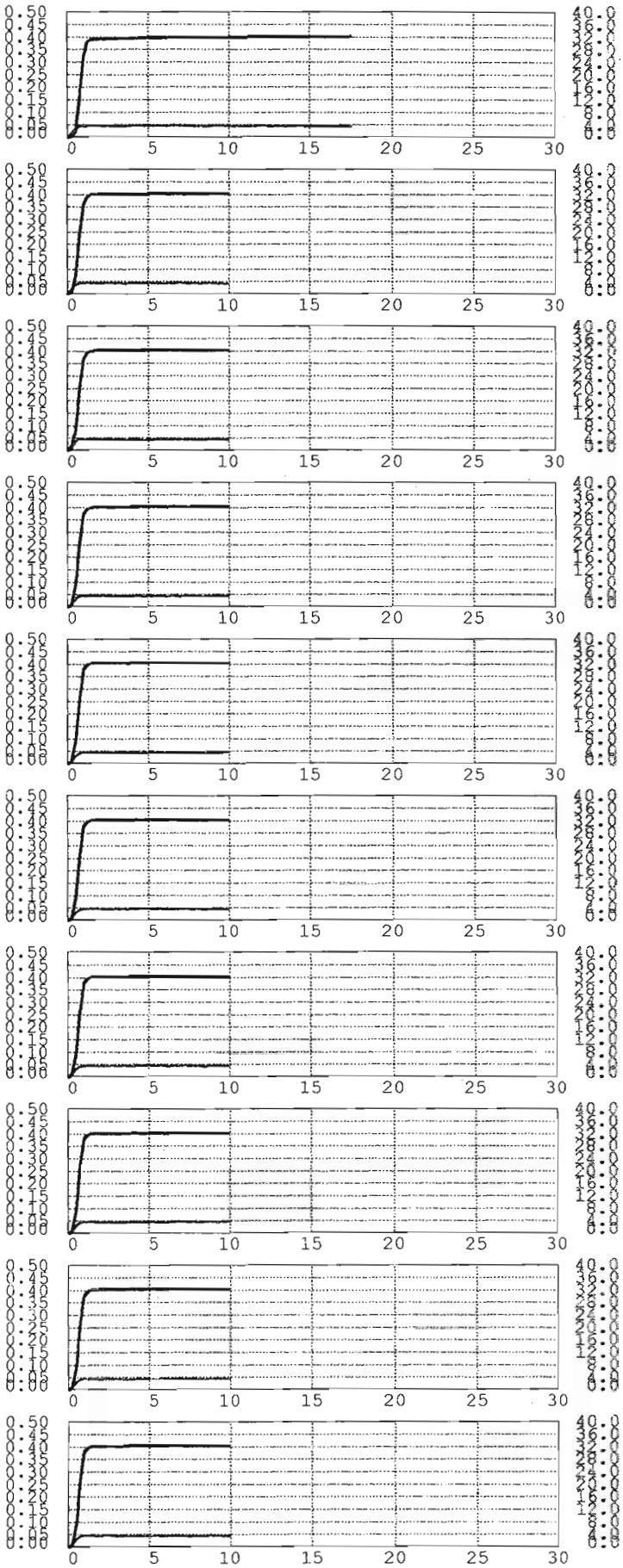
Date: 03/14/2008
Time: 15:16:46

SUPERVISOR NAME: A L N6 A

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	15:17
INTERNAL STANDARD	PASSED	15:17
Xq = 0.1466 (0.37%)		
SIMULATOR VAPOR (33.8°C)	0.399	15:18
X[1] = 0.3996 (0.0021) (0.0154)		
SIMULATOR VAPOR (33.8°C)	0.400	15:19
X[1] = 0.4006 (0.0008) (0.0136)		
SIMULATOR VAPOR (33.7°C)	0.401	15:20
X[1] = 0.4017 (0.0018) (0.0142)		
SIMULATOR VAPOR (33.8°C)	0.400	15:21
X[1] = 0.4008 (0.0006) (0.0141)		
SIMULATOR VAPOR (33.8°C)	0.401	15:22
X[1] = 0.4010 (0.0003) (0.0137)		
SIMULATOR VAPOR (33.8°C)	0.400	15:23
X[1] = 0.4009 (0.0008) (0.0132)		
SIMULATOR VAPOR (33.8°C)	0.400	15:24
X[1] = 0.4009 (0.0008) (0.0141)		
SIMULATOR VAPOR (33.7°C)	0.401	15:25
X[1] = 0.4011 (0.0012) (0.0143)		
SIMULATOR VAPOR (33.7°C)	0.401	15:26
X[1] = 0.4017 (0.0006) (0.0141)		
SIMULATOR VAPOR (33.7°C)	0.401	15:27
X[1] = 0.4011 (0.0009) (0.0139)		
BLANK TEST	0.000	15:28

Average = 0.4004
Std Dev = 0.0007



05/19/2008 10:00

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

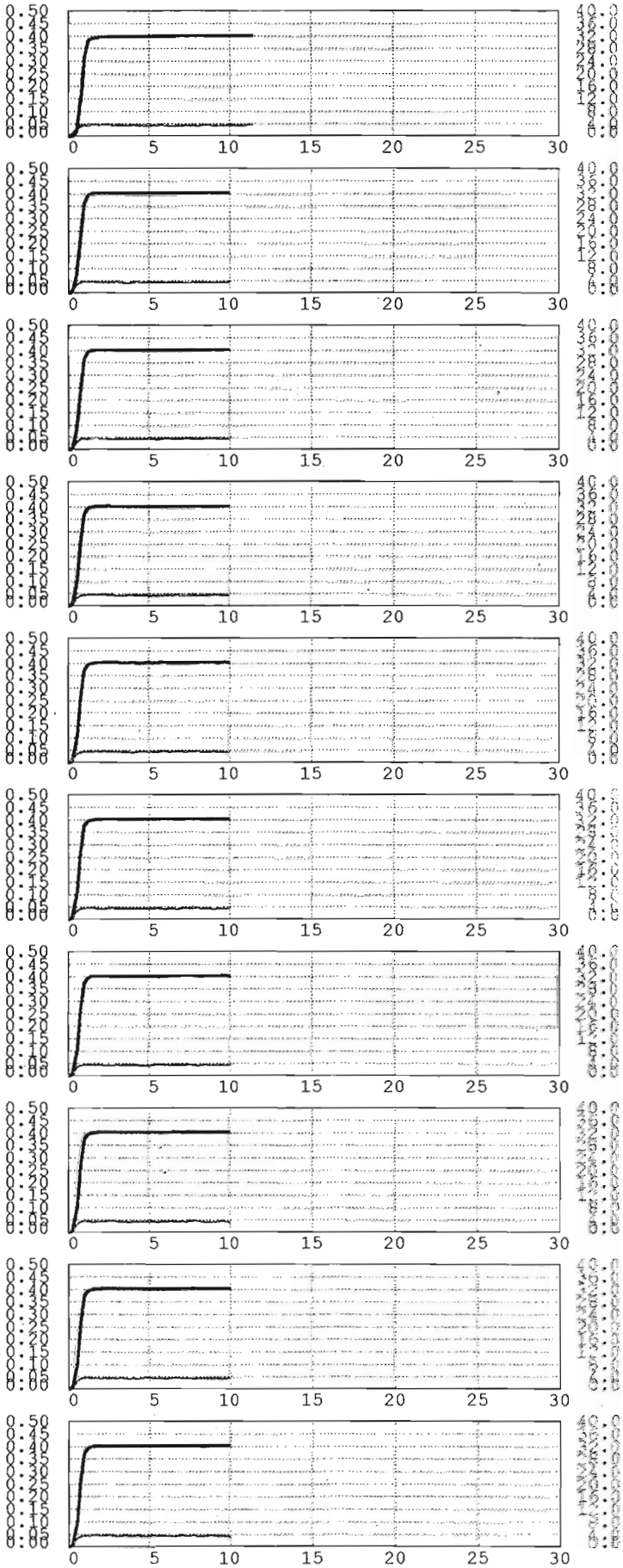
Date: 03/19/2008
Time: 10:48:31

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	10:49
INTERNAL STANDARD		PASSED	10:49
Xq = 0.1459	(0.068)		
SIMULATOR VAPOR (33.8°C)		0.399	10:49
X[1] = 0.3990	(-0.0002)	(0.0086)	
SIMULATOR VAPOR (33.7°C)		0.399	10:50
X[1] = 0.3997	(-0.0003)	(0.0078)	
SIMULATOR VAPOR (33.8°C)		0.399	10:51
X[1] = 0.3995	(-0.0001)	(0.0075)	
SIMULATOR VAPOR (33.8°C)		0.398	10:52
X[1] = 0.3989	(-0.0007)	(0.0076)	
SIMULATOR VAPOR (33.8°C)		0.400	10:53
X[1] = 0.4000	(-0.0002)	(0.0084)	
SIMULATOR VAPOR (33.8°C)		0.400	10:54
X[1] = 0.4008	(0.0011)	(0.0085)	
SIMULATOR VAPOR (33.8°C)		0.400	10:55
X[1] = 0.4004	(0.0000)	(0.0079)	
SIMULATOR VAPOR (33.7°C)		0.400	10:56
X[1] = 0.4007	(0.0006)	(0.0084)	
SIMULATOR VAPOR (33.8°C)		0.399	10:57
X[1] = 0.3998	(0.0006)	(0.0085)	
SIMULATOR VAPOR (33.7°C)		0.400	10:58
X[1] = 0.4002	(0.0004)	(0.0091)	
BLANK TEST		0.000	10:59

Average = 0.3994
Std Dev = 0.0007



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

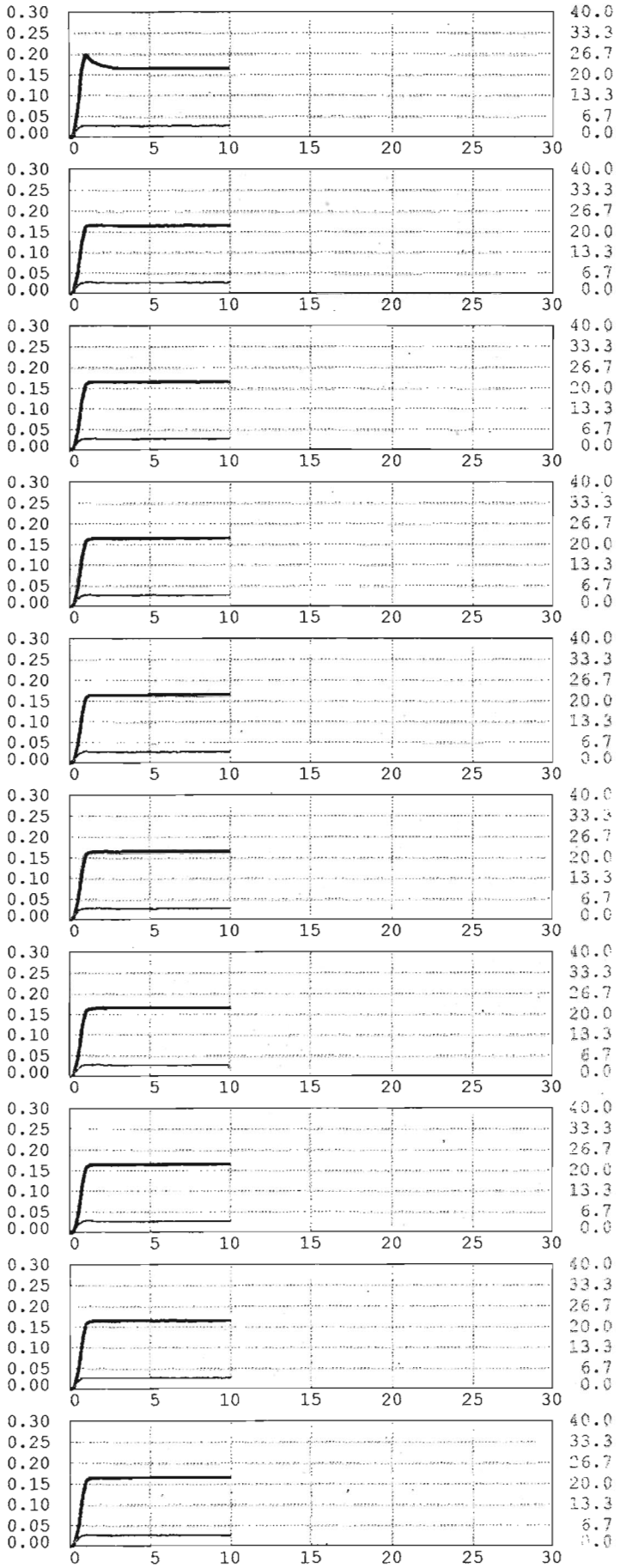
Date: 03/19/2008
Time: 11:11:18

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	11:12
INTERNAL STANDARD		PASSED	11:12
Xq = 0.1463 (0.18%)			
SIMULATOR VAPOR (33.7°C)		0.164	11:12
X[1] = 0.1646	(-0.0018)	(0.0044)	
SIMULATOR VAPOR (33.7°C)		0.164	11:13
X[1] = 0.1642	(-0.0013)	(0.0043)	
SIMULATOR VAPOR (33.6°C)		0.164	11:14
X[1] = 0.1644	(-0.0023)	(0.0035)	
SIMULATOR VAPOR (33.6°C)		0.164	11:15
X[1] = 0.1645	(-0.0021)	(0.0037)	
SIMULATOR VAPOR (33.6°C)		0.164	11:16
X[1] = 0.1642	(-0.0018)	(0.0033)	
SIMULATOR VAPOR (33.7°C)		0.164	11:17
X[1] = 0.1649	(-0.0012)	(0.0038)	
SIMULATOR VAPOR (33.6°C)		0.165	11:18
X[1] = 0.1650	(-0.0020)	(0.0040)	
SIMULATOR VAPOR (33.7°C)		0.164	11:19
X[1] = 0.1641	(-0.0021)	(0.0036)	
SIMULATOR VAPOR (33.7°C)		0.164	11:20
X[1] = 0.1644	(-0.0023)	(0.0042)	
SIMULATOR VAPOR (33.7°C)		0.164	11:21
X[1] = 0.1644	(-0.0016)	(0.0041)	
BLANK TEST		0.000	11:22

Average = 0.1641
Std Dev = 0.0003



03/19/2008 11:23

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

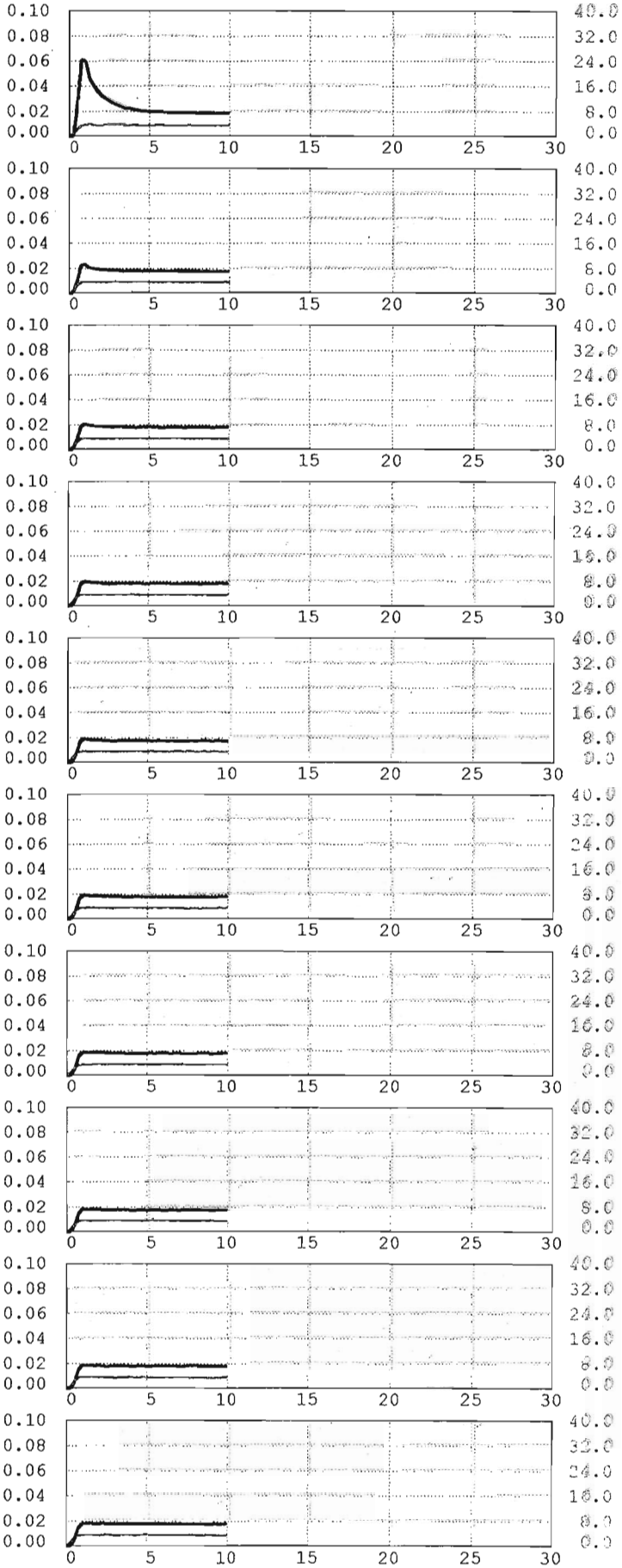
Date: 03/19/2008
Time: 11:40:12

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	11:41
INTERNAL STANDARD		PASSED	11:41
Xq = 0.1457 (0.25%)			
SIMULATOR VAPOR (33.9°C)		0.019	11:41
X[1] = 0.0191	(-0.0022)	(0.0014)	
SIMULATOR VAPOR (34.0°C)		0.018	11:42
X[1] = 0.0185	(-0.0020)	(0.0008)	
SIMULATOR VAPOR (34.0°C)		0.018	11:43
X[1] = 0.0189	(-0.0017)	(0.0010)	
SIMULATOR VAPOR (33.9°C)		0.018	11:44
X[1] = 0.0188	(-0.0018)	(0.0010)	
SIMULATOR VAPOR (33.9°C)		0.018	11:45
X[1] = 0.0183	(-0.0028)	(0.0004)	
SIMULATOR VAPOR (33.9°C)		0.018	11:46
X[1] = 0.0187	(-0.0014)	(0.0006)	
SIMULATOR VAPOR (33.9°C)		0.018	11:47
X[1] = 0.0187	(-0.0018)	(0.0002)	
SIMULATOR VAPOR (33.9°C)		0.018	11:48
X[1] = 0.0183	(-0.0017)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.018	11:49
X[1] = 0.0188	(-0.0012)	(0.0012)	
SIMULATOR VAPOR (33.9°C)		0.018	11:50
X[1] = 0.0185	(-0.0019)	(0.0005)	
BLANK TEST		0.000	11:51

Average = 0.0181
Std Dev = 0.0003



03/19/2008 11:53

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

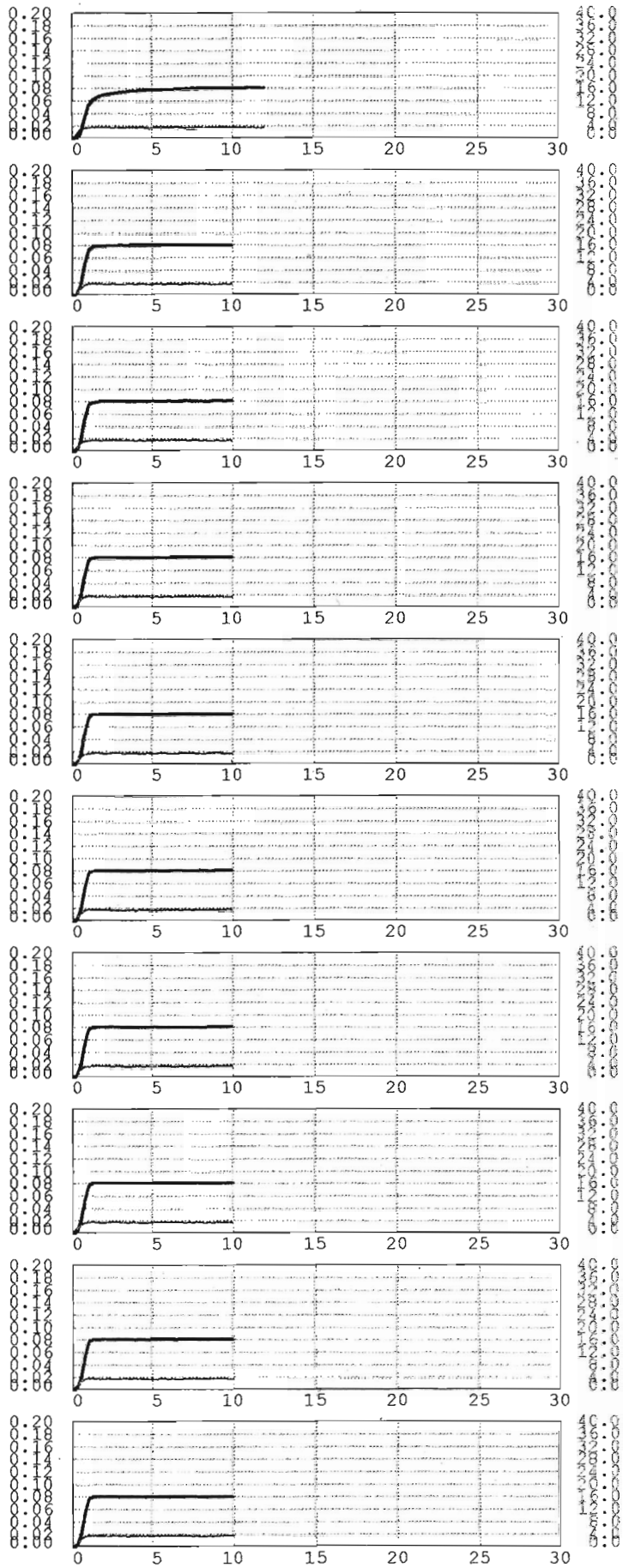
Date: 03/19/2008
Time: 11:55:32

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	11:56
INTERNAL STANDARD		PASSED	11:56
Xq = 0.1468 (0.49%)			
SIMULATOR VAPOR (33.6°C)		0.080	11:56
X[1] = 0.0804	(-0.0022)	(0.0029)	
SIMULATOR VAPOR (33.7°C)		0.080	11:57
X[1] = 0.0805	(-0.0017)	(0.0022)	
SIMULATOR VAPOR (33.6°C)		0.080	11:58
X[1] = 0.0808	(-0.0021)	(0.0028)	
SIMULATOR VAPOR (33.7°C)		0.081	11:59
X[1] = 0.0811	(-0.0019)	(0.0024)	
SIMULATOR VAPOR (33.7°C)		0.080	12:00
X[1] = 0.0808	(-0.0027)	(0.0027)	
SIMULATOR VAPOR (33.7°C)		0.080	12:01
X[1] = 0.0808	(-0.0017)	(0.0028)	
SIMULATOR VAPOR (33.7°C)		0.080	12:02
X[1] = 0.0808	(-0.0016)	(0.0029)	
SIMULATOR VAPOR (33.6°C)		0.081	12:03
X[1] = 0.0814	(-0.0018)	(0.0026)	
SIMULATOR VAPOR (33.6°C)		0.081	12:04
X[1] = 0.0812	(-0.0015)	(0.0030)	
SIMULATOR VAPOR (33.7°C)		0.080	12:05
X[1] = 0.0806	(-0.0012)	(0.0022)	
BLANK TEST		0.000	12:06

Average = 0.0803
Std Dev = 0.0005



03/19/2008 12:08

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date: 03/14/2008
Installation Date: 03/14/2008
Test Date: 03/19/2008
Time: 14:08

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 49.03°C
Breath Tube    = 47.91°C
Digital Sim    = 33.7°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.64 V
Bias Voltage   = 81.0 V
Chopper Freq   = 542.8 Hz

PUMP INFO
Flow Rate = 4.479 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)  -0.0846   -0.0846
MIN(V)  -0.0878   -0.0858

FILTER INFO
Filter 1 -0.086  Zero = true
Filter 2  0.401  Zero = true
Filter 3 -0.086  Zero = true

INTERNAL STANDARD
Xq = 0.1462  0.12%
```

03/19/2008 14:16

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

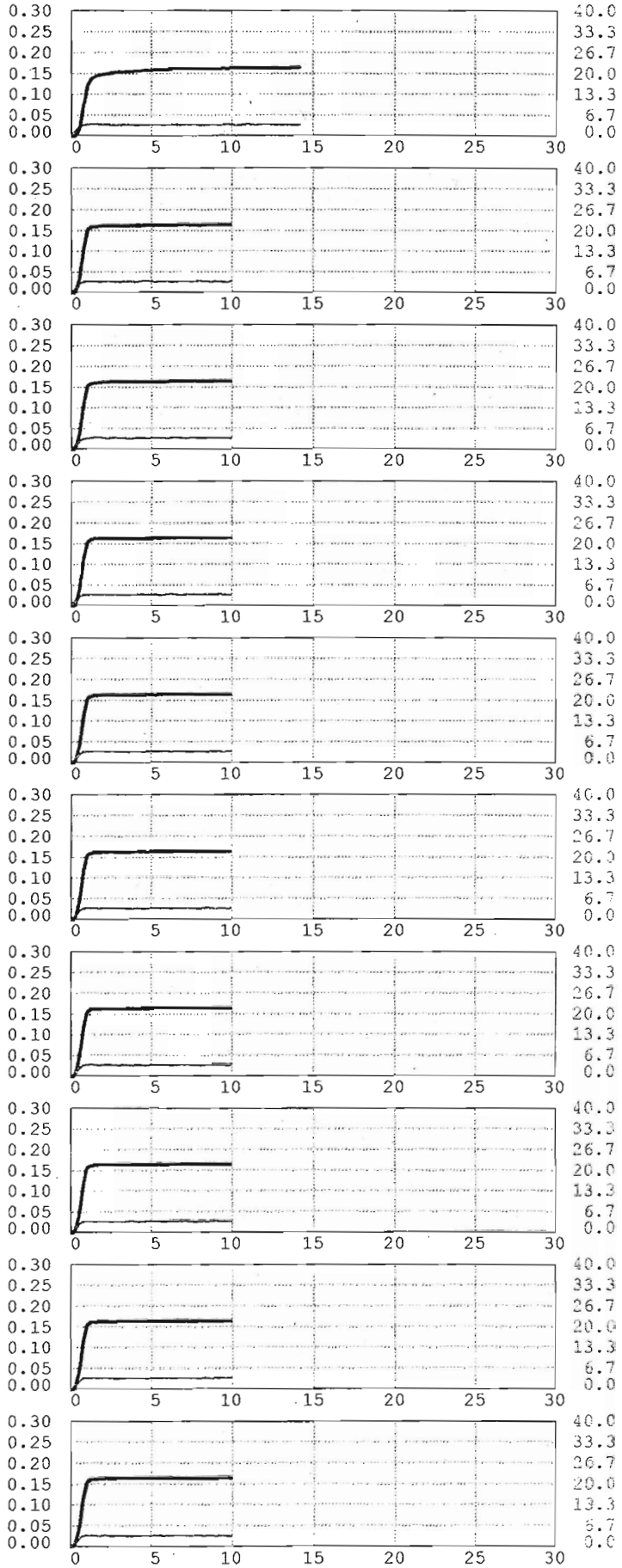
Date: 03/19/2008
Time: 14:21:52

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	14:22
INTERNAL STANDARD	PASSED	14:22
Xq = 0.1456 (0.31%)		
SIMULATOR VAPOR (33.7°C)	0.162	14:23
X[1] = 0.1629 (-0.0014) (0.0042)		
SIMULATOR VAPOR (33.7°C)	0.163	14:24
X[1] = 0.1633 (-0.0016) (0.0035)		
SIMULATOR VAPOR (33.7°C)	0.163	14:25
X[1] = 0.1634 (-0.0019) (0.0033)		
SIMULATOR VAPOR (33.7°C)	0.163	14:26
X[1] = 0.1637 (-0.0024) (0.0033)		
SIMULATOR VAPOR (33.6°C)	0.163	14:27
X[1] = 0.1636 (-0.0021) (0.0030)		
SIMULATOR VAPOR (33.7°C)	0.163	14:28
X[1] = 0.1635 (-0.0015) (0.0029)		
SIMULATOR VAPOR (33.6°C)	0.163	14:29
X[1] = 0.1638 (-0.0013) (0.0029)		
SIMULATOR VAPOR (33.7°C)	0.164	14:30
X[1] = 0.1647 (-0.0011) (0.0037)		
SIMULATOR VAPOR (33.7°C)	0.163	14:31
X[1] = 0.1639 (-0.0010) (0.0032)		
SIMULATOR VAPOR (33.7°C)	0.163	14:32
X[1] = 0.1638 (-0.0013) (0.0033)		
BLANK TEST	0.000	14:32

Average = 0.1630
Std Dev = 0.0005



03/19/2008 14:38

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

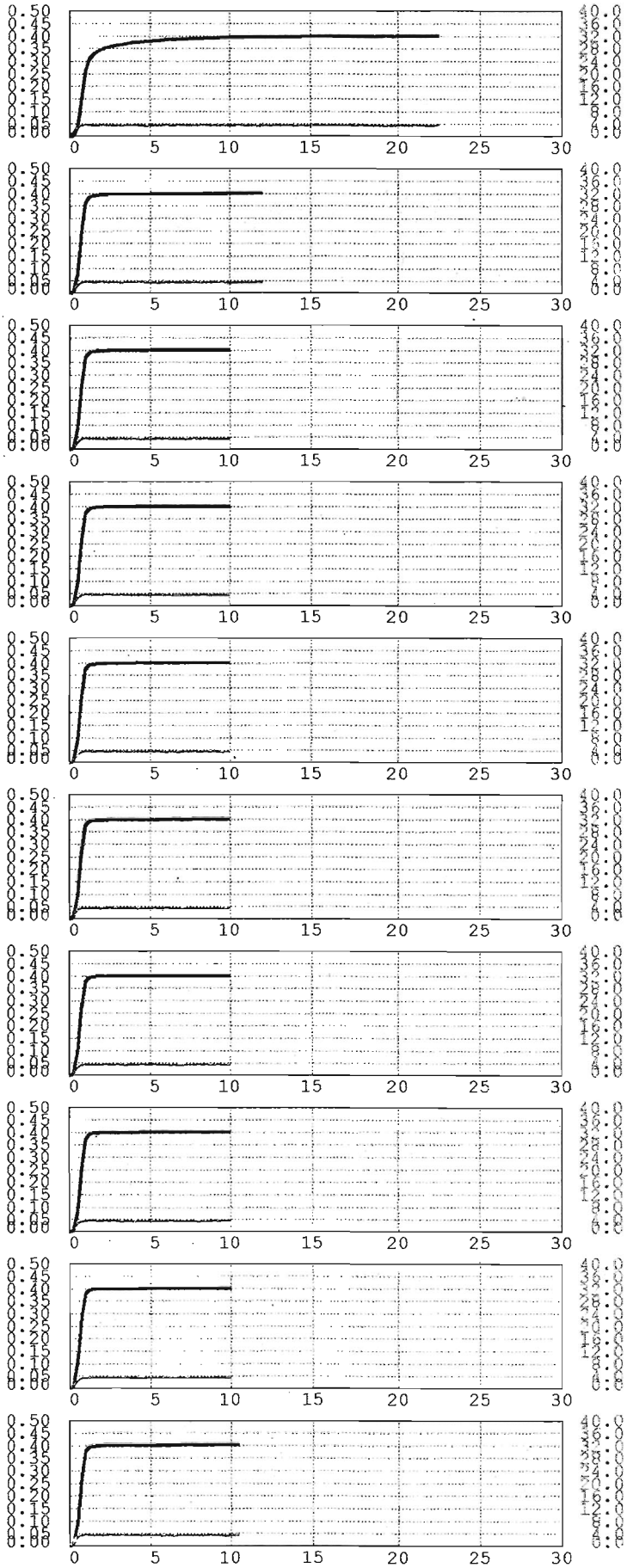
Date: 03/19/2008
Time: 14:41:03

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	14:41
INTERNAL STANDARD	PASSED	14:42
Xq = 0.1459 (0.06%)		
SIMULATOR VAPOR (33.8°C)	0.398	14:42
X[1] = 0.3987 (0.0008) (0.0112)		
SIMULATOR VAPOR (33.8°C)	0.398	14:43
X[1] = 0.3985 (-0.0007) (0.0107)		
SIMULATOR VAPOR (33.8°C)	0.398	14:44
X[1] = 0.3983 (-0.0002) (0.0106)		
SIMULATOR VAPOR (33.7°C)	0.398	14:45
X[1] = 0.3985 (0.0007) (0.0107)		
SIMULATOR VAPOR (33.8°C)	0.398	14:46
X[1] = 0.3987 (-0.0001) (0.0110)		
SIMULATOR VAPOR (33.7°C)	0.398	14:47
X[1] = 0.3987 (0.0005) (0.0100)		
SIMULATOR VAPOR (33.7°C)	0.399	14:48
X[1] = 0.3999 (0.0012) (0.0106)		
SIMULATOR VAPOR (33.8°C)	0.399	14:49
X[1] = 0.3990 (0.0008) (0.0111)		
SIMULATOR VAPOR (33.7°C)	0.398	14:50
X[1] = 0.3987 (0.0009) (0.0110)		
SIMULATOR VAPOR (33.8°C)	0.400	14:51
X[1] = 0.4002 (0.0015) (0.0123)		
BLANK TEST	0.000	14:52

Average = 0.3984
Std Dev = 0.0007



03/19/2008 15:55

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

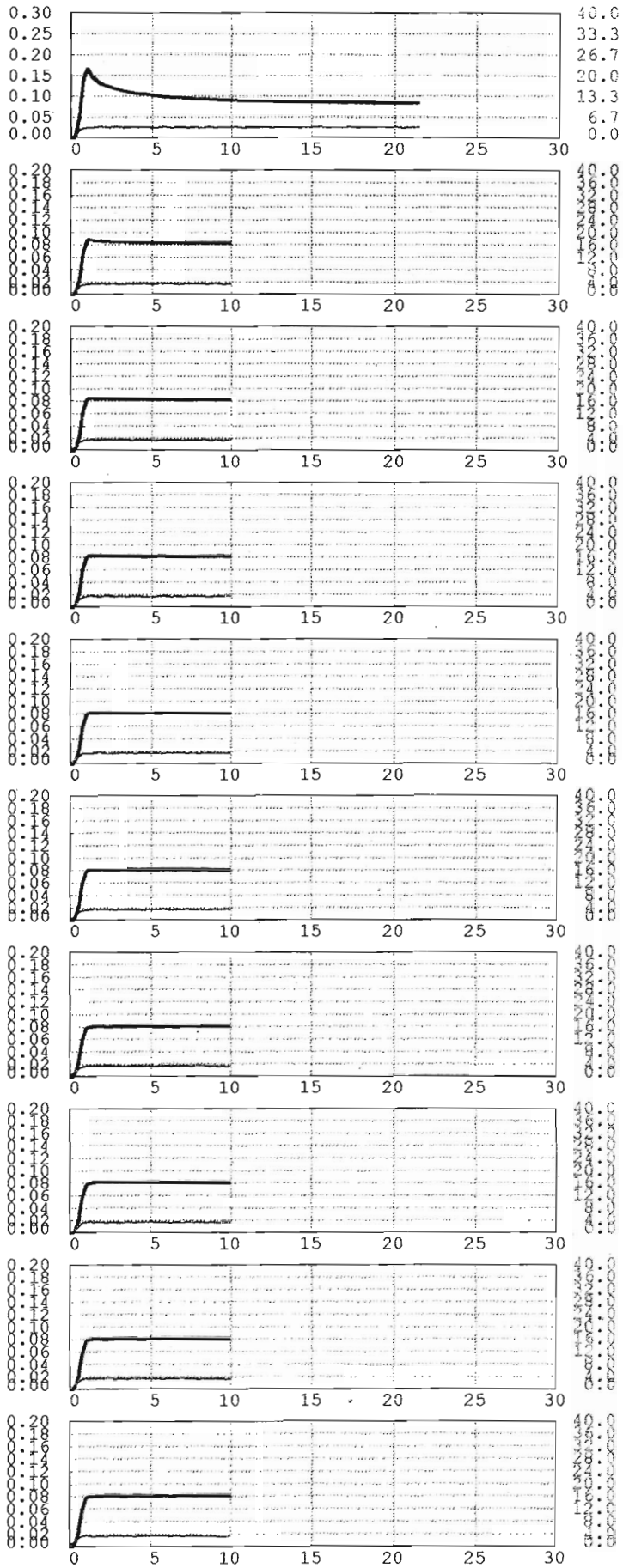
Date: 03/19/2008
Time: 15:30:22

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	15:31
INTERNAL STANDARD		PASSED	15:31
Xq = 0.1464 (0.24%)			
SIMULATOR VAPOR (33.7°C)		0.084	15:31
X[1] = 0.0848	(-0.0019)	(0.0028)	
SIMULATOR VAPOR (33.7°C)		0.083	15:32
X[1] = 0.0831	(-0.0016)	(0.0029)	
SIMULATOR VAPOR (33.6°C)		0.082	15:33
X[1] = 0.0820	(-0.0022)	(0.0024)	
SIMULATOR VAPOR (33.7°C)		0.081	15:34
X[1] = 0.0816	(-0.0027)	(0.0020)	
SIMULATOR VAPOR (33.7°C)		0.081	15:35
X[1] = 0.0813	(-0.0020)	(0.0028)	
SIMULATOR VAPOR (33.6°C)		0.081	15:36
X[1] = 0.0810	(-0.0019)	(0.0028)	
SIMULATOR VAPOR (33.6°C)		0.080	15:37
X[1] = 0.0809	(-0.0023)	(0.0018)	
SIMULATOR VAPOR (33.7°C)		0.081	15:38
X[1] = 0.0811	(-0.0019)	(0.0023)	
SIMULATOR VAPOR (33.7°C)		0.080	15:39
X[1] = 0.0809	(-0.0019)	(0.0018)	
SIMULATOR VAPOR (33.7°C)		0.080	15:40
X[1] = 0.0808	(-0.0020)	(0.0018)	
BLANK TEST		0.000	15:41

Average = 0.0813
Std Dev = 0.0013



03/19/2008 15:54

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

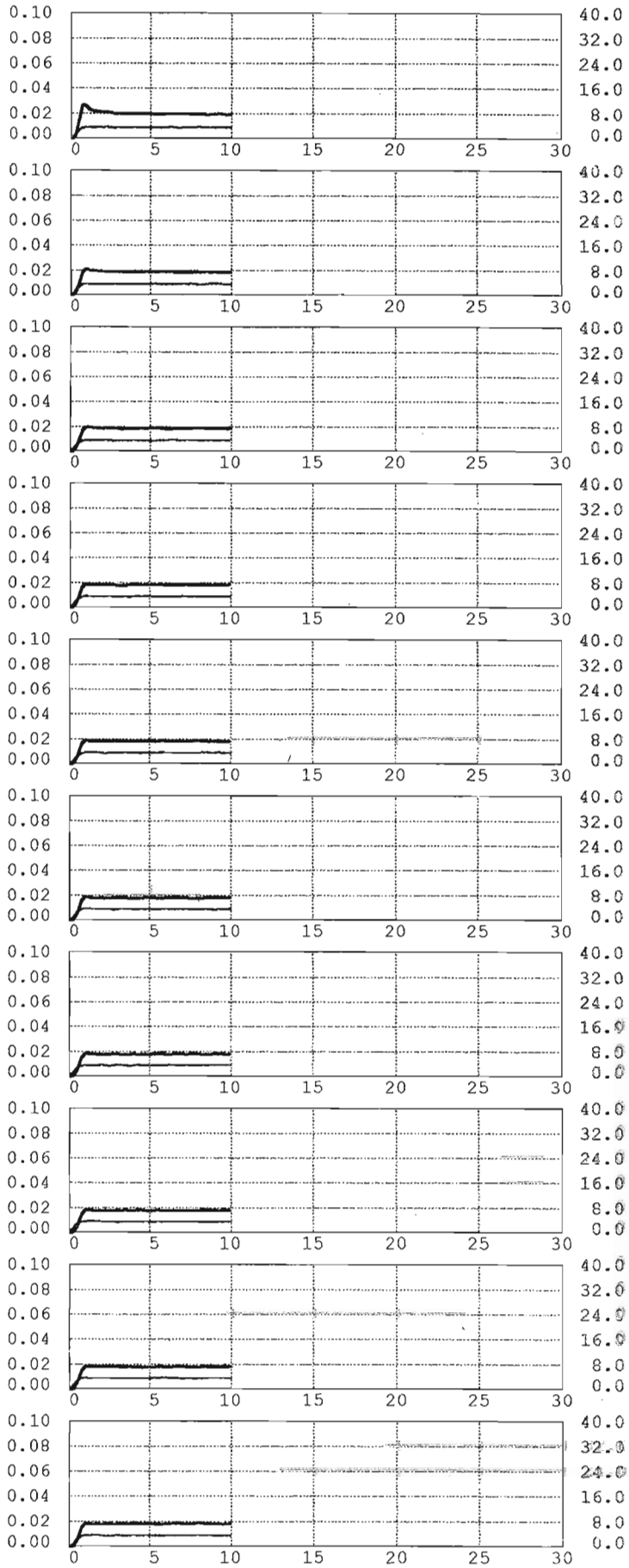
Date: 03/19/2008
Time: 15:57:01

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	15:57
INTERNAL STANDARD		PASSED	15:58
Xq = 0.1467 (0.43%)			
SIMULATOR VAPOR (34.0°C)		0.019	15:58
X[1] = 0.0194	(-0.0020)	(0.0015)	
SIMULATOR VAPOR (33.9°C)		0.019	15:59
X[1] = 0.0191	(-0.0020)	(0.0013)	
SIMULATOR VAPOR (34.0°C)		0.019	16:00
X[1] = 0.0192	(-0.0022)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.018	16:01
X[1] = 0.0187	(-0.0022)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.018	16:02
X[1] = 0.0187	(-0.0015)	(0.0006)	
SIMULATOR VAPOR (33.9°C)		0.018	16:03
X[1] = 0.0189	(-0.0017)	(0.0011)	
SIMULATOR VAPOR (33.9°C)		0.018	16:04
X[1] = 0.0185	(-0.0027)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.018	16:05
X[1] = 0.0185	(-0.0023)	(0.0004)	
SIMULATOR VAPOR (33.9°C)		0.018	16:06
X[1] = 0.0186	(-0.0021)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.018	16:07
X[1] = 0.0186	(-0.0019)	(0.0005)	
BLANK TEST		0.000	16:08

Average = 0.0183
Std Dev = 0.0005



05/19/2008 10:01

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date: 03/14/2008
Installation Date: 03/14/2008
Test Date: 03/20/2008
Time: 09:57

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.63°C
Breath Tube    = 47.81°C
Digital Sim    = 0.0°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.64 V
Bias Voltage   = 81.0 V
Chopper Freq   = 543.2 Hz

PUMP INFO
Flow Rate = 4.454 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)  -0.0900   -0.0870
MIN(V)  -0.0919   -0.0886

FILTER INFO
Filter 1 -0.089  Zero = true
Filter 2  0.398  Zero = true
Filter 3 -0.088  Zero = true

INTERNAL STANDARD
Xq = 0.1459  0.06%
```

03/20/2008 09:58

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

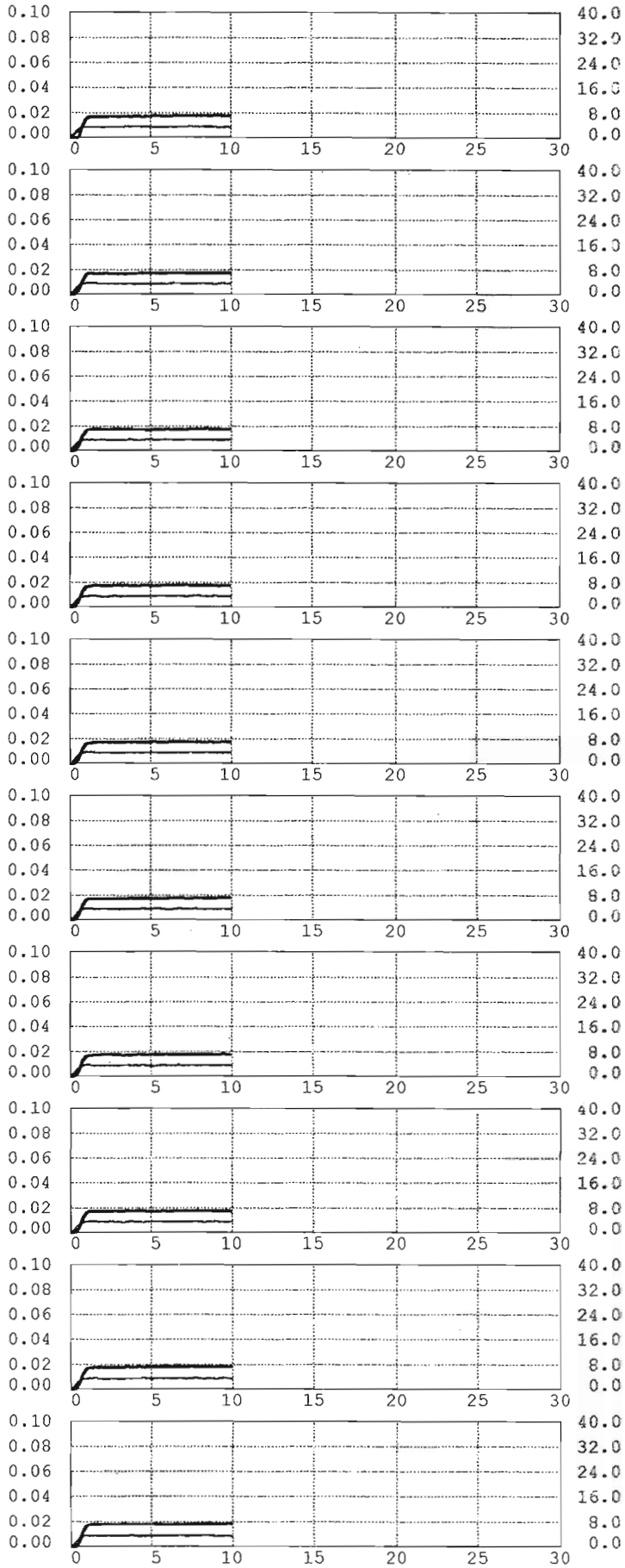
Date: 03/20/2008
Time: 10:10:17

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	10:11
INTERNAL STANDARD	PASSED	10:11
Xq = 0.1465 (0.31%)		
SIMULATOR VAPOR (34.0°C)	0.018	10:11
X[1] = 0.0183 (-0.0015) (0.0009)		
SIMULATOR VAPOR (33.9°C)	0.018	10:12
X[1] = 0.0182 (-0.0024) (0.0004)		
SIMULATOR VAPOR (33.9°C)	0.018	10:13
X[1] = 0.0185 (-0.0015) (0.0008)		
SIMULATOR VAPOR (33.9°C)	0.018	10:14
X[1] = 0.0184 (-0.0019) (0.0011)		
SIMULATOR VAPOR (33.9°C)	0.018	10:15
X[1] = 0.0185 (-0.0018) (0.0005)		
SIMULATOR VAPOR (34.0°C)	0.018	10:16
X[1] = 0.0185 (-0.0020) (0.0005)		
SIMULATOR VAPOR (34.0°C)	0.018	10:17
X[1] = 0.0184 (-0.0018) (0.0006)		
SIMULATOR VAPOR (34.0°C)	0.018	10:18
X[1] = 0.0182 (-0.0019) (0.0003)		
SIMULATOR VAPOR (33.9°C)	0.018	10:19
X[1] = 0.0187 (-0.0017) (0.0003)		
SIMULATOR VAPOR (33.9°C)	0.018	10:20
X[1] = 0.0185 (-0.0016) (0.0005)		
BLANK TEST	0.000	10:21

Average = 0.0180
Std Dev = 0.0000



05/19/2008 10:02

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

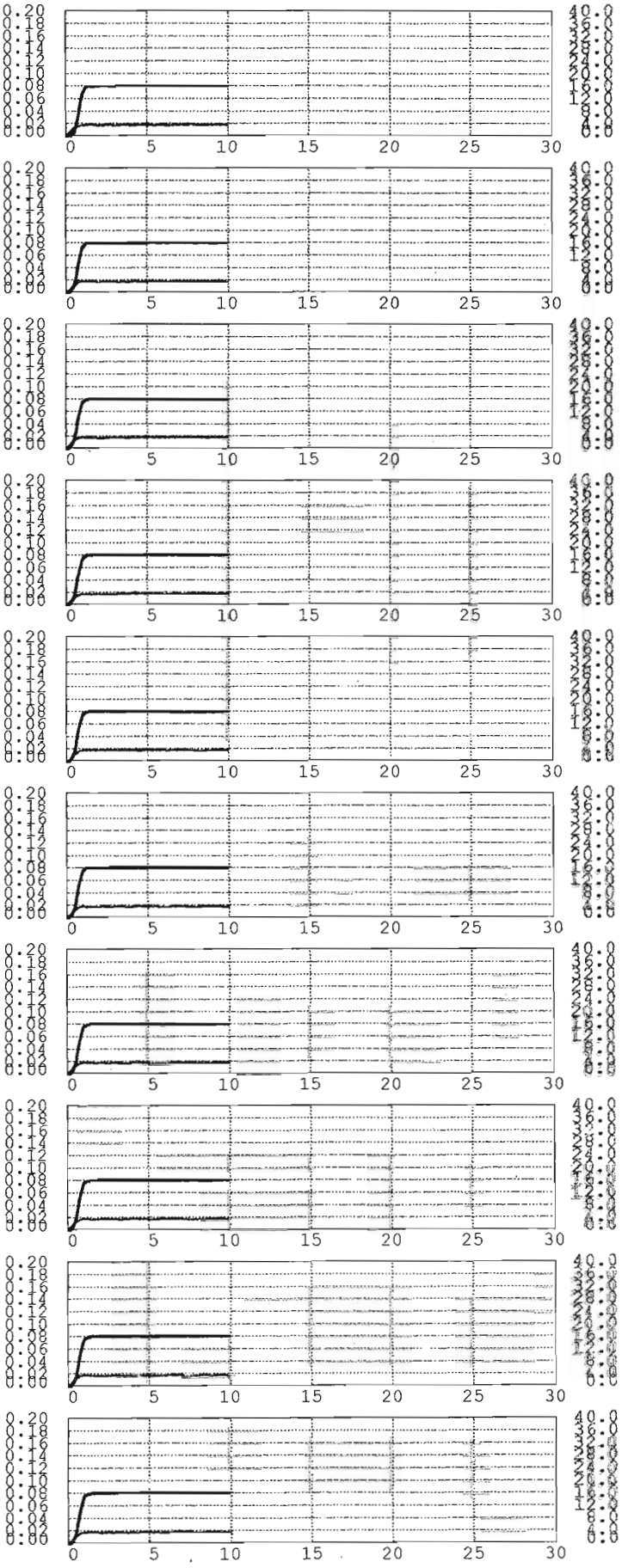
Date: 03/20/2008
Time: 10:38:39

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	10:39
INTERNAL STANDARD	PASSED	10:39
Xq = 0.1471 (0.74%)		
SIMULATOR VAPOR (33.7°C)	0.079	10:40
X[1] = 0.0799 (0.0000) (0.0037)		
SIMULATOR VAPOR (33.7°C)	0.079	10:41
X[1] = 0.0796 (-0.0018) (0.0028)		
SIMULATOR VAPOR (33.7°C)	0.080	10:41
X[1] = 0.0801 (-0.0009) (0.0029)		
SIMULATOR VAPOR (33.7°C)	0.080	10:42
X[1] = 0.0803 (-0.0004) (0.0027)		
SIMULATOR VAPOR (33.7°C)	0.080	10:43
X[1] = 0.0800 (-0.0015) (0.0029)		
SIMULATOR VAPOR (33.6°C)	0.080	10:44
X[1] = 0.0804 (-0.0007) (0.0033)		
SIMULATOR VAPOR (33.7°C)	0.079	10:45
X[1] = 0.0795 (-0.0020) (0.0016)		
SIMULATOR VAPOR (33.7°C)	0.080	10:46
X[1] = 0.0801 (-0.0017) (0.0033)		
SIMULATOR VAPOR (33.7°C)	0.080	10:47
X[1] = 0.0801 (-0.0020) (0.0035)		
SIMULATOR VAPOR (33.7°C)	0.080	10:48
X[1] = 0.0808 (-0.0014) (0.0027)		
BLANK TEST	0.000	10:49

Average = 0.0797
Std Dev = 0.0005



05/19/2008 10:03

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

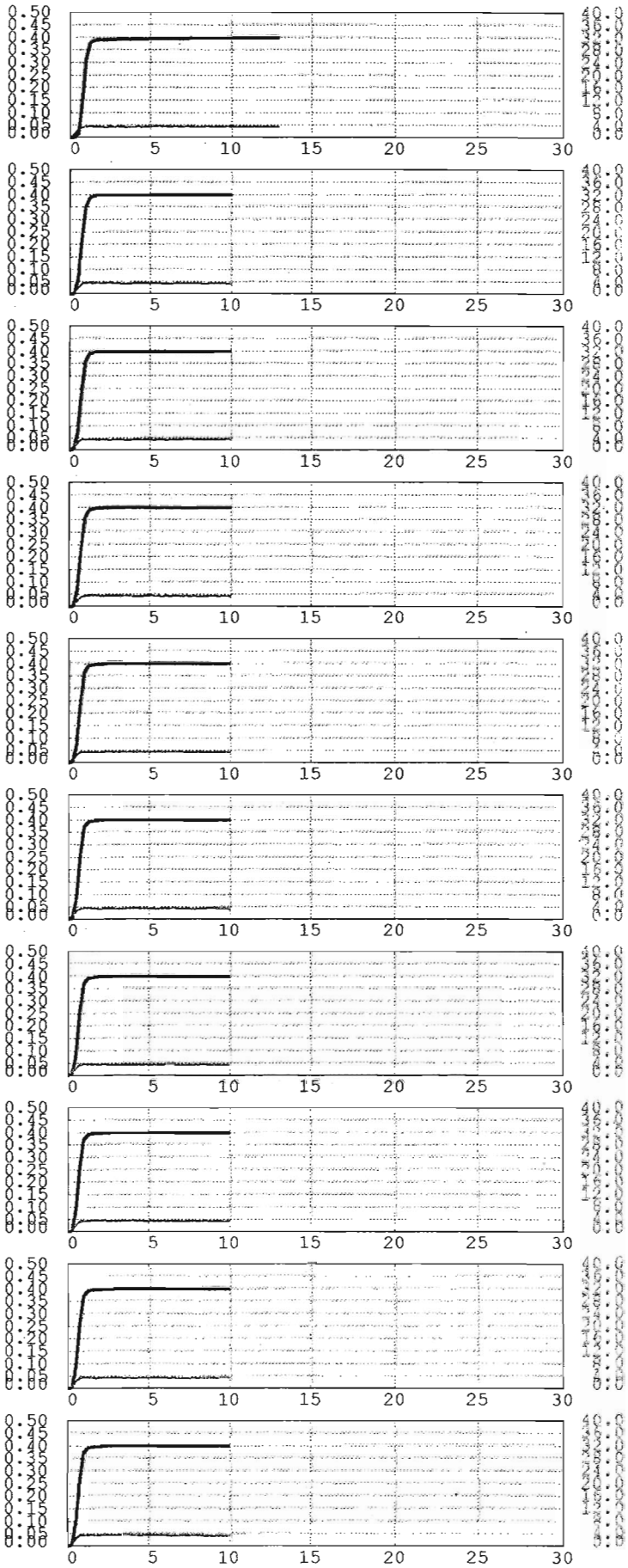
Date: 03/20/2008
Time: 11:03:30

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	11:04
INTERNAL STANDARD		PASSED	11:04
Xq = 0.1470 (0.67%)			
SIMULATOR VAPOR (33.8°C)		0.395	11:04
X[1] = 0.3950 (0.0026)	(0.0132)		
SIMULATOR VAPOR (33.8°C)		0.395	11:06
X[1] = 0.3952 (0.0019)	(0.0122)		
SIMULATOR VAPOR (33.8°C)		0.395	11:07
X[1] = 0.3955 (0.0012)	(0.0122)		
SIMULATOR VAPOR (33.7°C)		0.396	11:08
X[1] = 0.3962 (0.0009)	(0.0129)		
SIMULATOR VAPOR (33.8°C)		0.396	11:09
X[1] = 0.3965 (0.0003)	(0.0124)		
SIMULATOR VAPOR (33.7°C)		0.396	11:10
X[1] = 0.3966 (0.0013)	(0.0129)		
SIMULATOR VAPOR (33.7°C)		0.396	11:11
X[1] = 0.3965 (0.0007)	(0.0126)		
SIMULATOR VAPOR (33.8°C)		0.396	11:12
X[1] = 0.3963 (0.0017)	(0.0128)		
SIMULATOR VAPOR (33.8°C)		0.396	11:13
X[1] = 0.3964 (-0.0004)	(0.0127)		
SIMULATOR VAPOR (33.8°C)		0.396	11:14
X[1] = 0.3969 (0.0001)	(0.0127)		
BLANK TEST		0.000	11:14

Average = 0.3957
Std Dev = 0.0005



03/20/2008 11:15

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

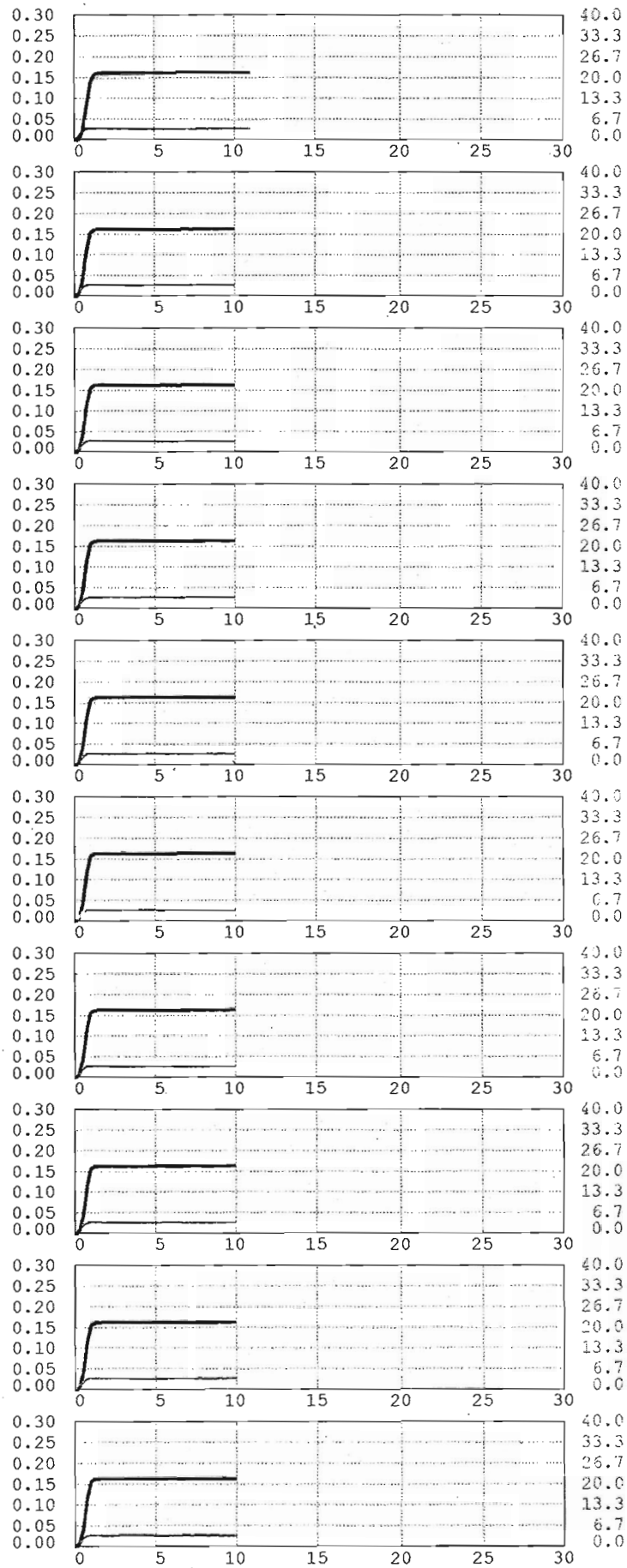
Date: 03/20/2008
Time: 11:22:26

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	11:23
INTERNAL STANDARD	PASSED	11:23
Xq = 0.1468 (0.55%)		
SIMULATOR VAPOR (33.6°C)	0.162	11:23
X[1] = 0.1624 (-0.0001) (0.0057)		
SIMULATOR VAPOR (33.7°C)	0.161	11:24
X[1] = 0.1618 (-0.0011) (0.0050)		
SIMULATOR VAPOR (33.7°C)	0.162	11:25
X[1] = 0.1624 (-0.0010) (0.0052)		
SIMULATOR VAPOR (33.7°C)	0.162	11:26
X[1] = 0.1628 (0.0004) (0.0050)		
SIMULATOR VAPOR (33.7°C)	0.162	11:27
X[1] = 0.1627 (-0.0016) (0.0049)		
SIMULATOR VAPOR (33.6°C)	0.163	11:28
X[1] = 0.1632 (-0.0006) (0.0054)		
SIMULATOR VAPOR (33.7°C)	0.162	11:29
X[1] = 0.1629 (-0.0010) (0.0054)		
SIMULATOR VAPOR (33.6°C)	0.163	11:30
X[1] = 0.1630 (-0.0012) (0.0051)		
SIMULATOR VAPOR (33.7°C)	0.162	11:31
X[1] = 0.1626 (-0.0020) (0.0037)		
SIMULATOR VAPOR (33.7°C)	0.162	11:32
X[1] = 0.1630 (-0.0007) (0.0053)		
BLANK TEST	0.000	11:33

Average = 0.1622
Std Dev = 0.0006



03/20/2008 11:53

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

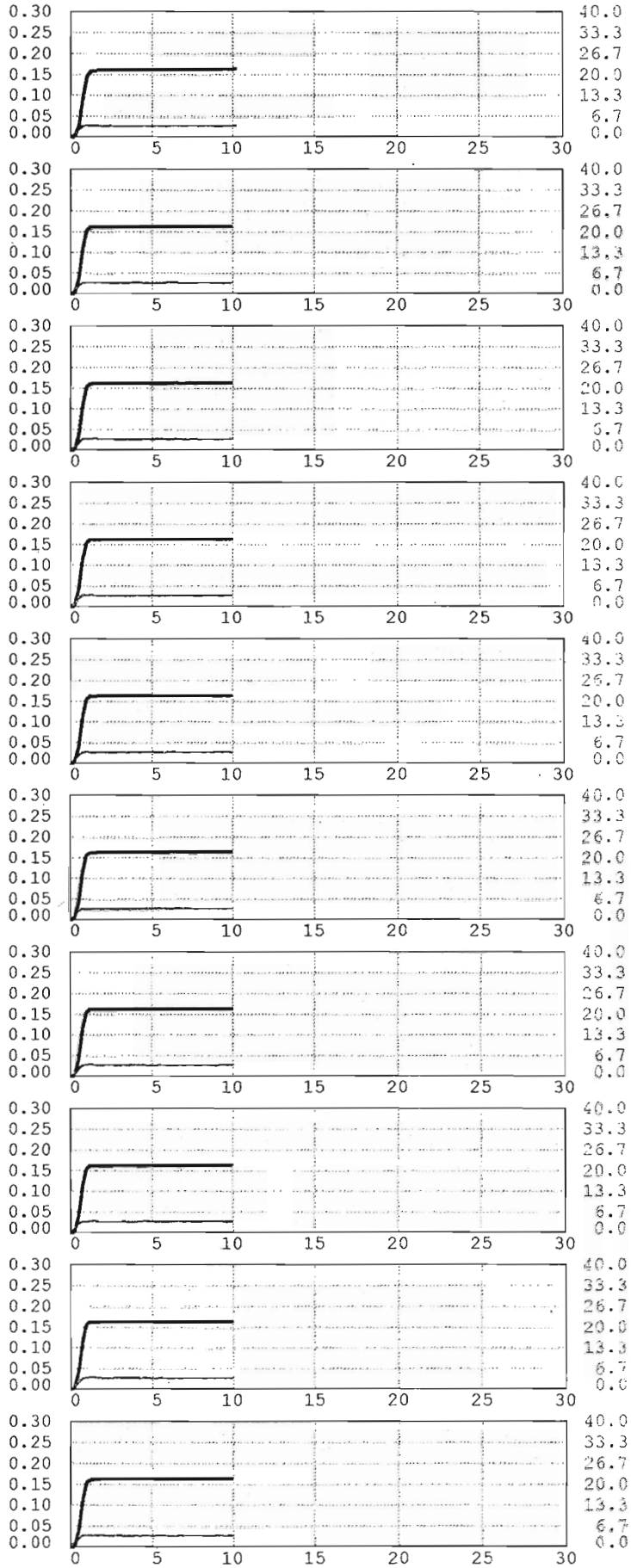
Date: 03/20/2008
Time: 13:20:10

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	13:21
INTERNAL STANDARD		PASSED	13:21
Xq = 0.1467 (0.43%)			
SIMULATOR VAPOR (33.7°C)		0.162	13:21
X[1] = 0.1627	(-0.0002)	(0.0045)	
SIMULATOR VAPOR (33.6°C)		0.162	13:22
X[1] = 0.1625	(-0.0011)	(0.0038)	
SIMULATOR VAPOR (33.7°C)		0.162	13:23
X[1] = 0.1621	(-0.0011)	(0.0039)	
SIMULATOR VAPOR (33.6°C)		0.162	13:24
X[1] = 0.1629	(-0.0009)	(0.0031)	
SIMULATOR VAPOR		INTERFERENCE	13:25
X[1] = 0.1626	(-0.0018)	(-0.0169)	
SIMULATOR VAPOR (33.7°C)		0.163	13:26
X[1] = 0.1630	(-0.0006)	(0.0038)	
SIMULATOR VAPOR (33.7°C)		0.162	13:27
X[1] = 0.1625	(-0.0010)	(0.0036)	
SIMULATOR VAPOR (33.6°C)		0.162	13:28
X[1] = 0.1623	(-0.0018)	(0.0041)	
SIMULATOR VAPOR (33.7°C)		0.162	13:29
X[1] = 0.1625	(-0.0015)	(0.0039)	
SIMULATOR VAPOR (33.6°C)		0.162	13:30
X[1] = 0.1627	(-0.0010)	(0.0041)	
BLANK TEST		0.000	13:31

Avg = .162
Std dev = .0003



03/20/2008 13:32

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

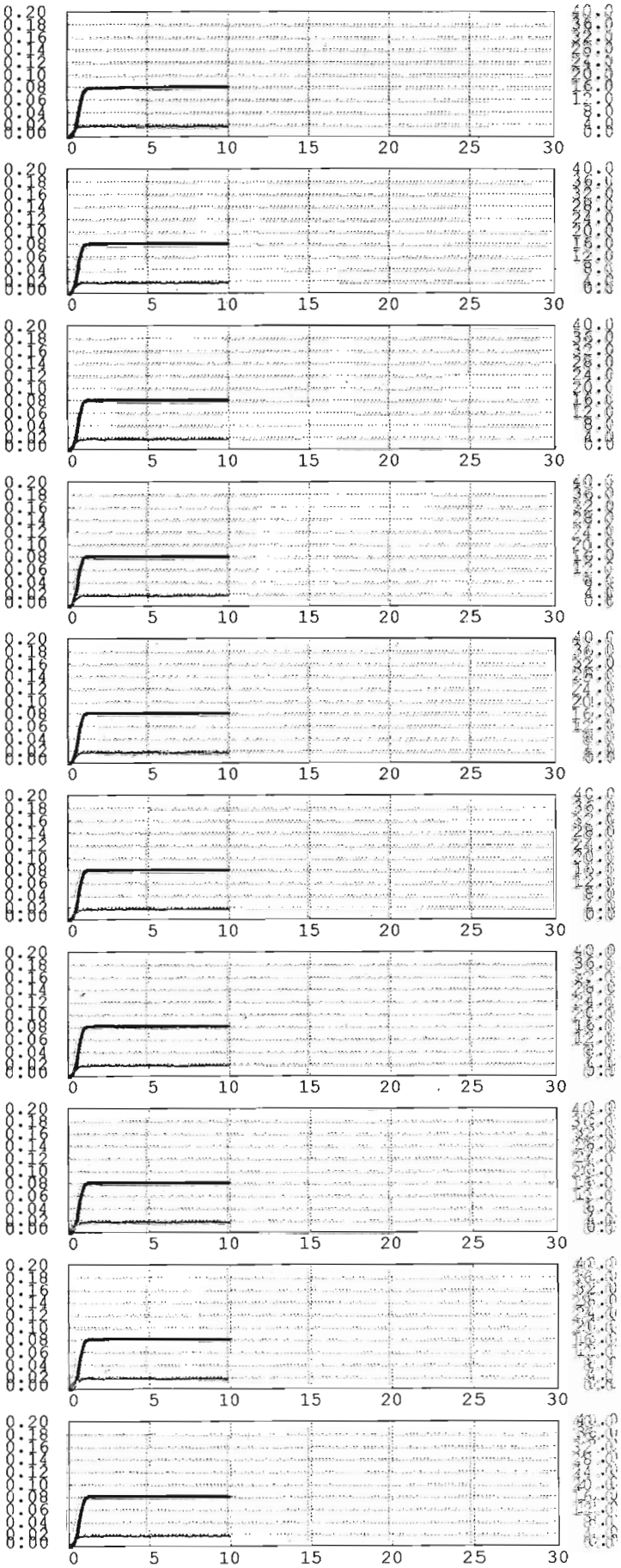
Date: 03/20/2008
Time: 13:33:36

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	13:34
INTERNAL STANDARD	PASSED	13:34
Xq = 0.1469 (0.61%)		
SIMULATOR VAPOR (33.7°C)	0.080	13:34
X[1] = 0.0803 (-0.0009) (0.0022)		
SIMULATOR VAPOR (33.7°C)	0.080	13:35
X[1] = 0.0801 (-0.0016) (0.0027)		
SIMULATOR VAPOR (33.6°C)	0.080	13:36
X[1] = 0.0802 (-0.0015) (0.0024)		
SIMULATOR VAPOR (33.7°C)	0.080	13:37
X[1] = 0.0805 (-0.0024) (0.0023)		
SIMULATOR VAPOR (33.7°C)	0.080	13:38
X[1] = 0.0807 (-0.0017) (0.0032)		
SIMULATOR VAPOR (33.6°C)	0.080	13:39
X[1] = 0.0803 (-0.0012) (0.0022)		
SIMULATOR VAPOR (33.7°C)	0.080	13:40
X[1] = 0.0807 (-0.0013) (0.0023)		
SIMULATOR VAPOR (33.6°C)	0.080	13:41
X[1] = 0.0806 (-0.0021) (0.0024)		
SIMULATOR VAPOR (33.7°C)	0.080	13:42
X[1] = 0.0804 (-0.0016) (0.0026)		
SIMULATOR VAPOR (33.7°C)	0.080	13:43
X[1] = 0.0806 (-0.0018) (0.0030)		
BLANK TEST	0.000	13:44

Average = 0.0800
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

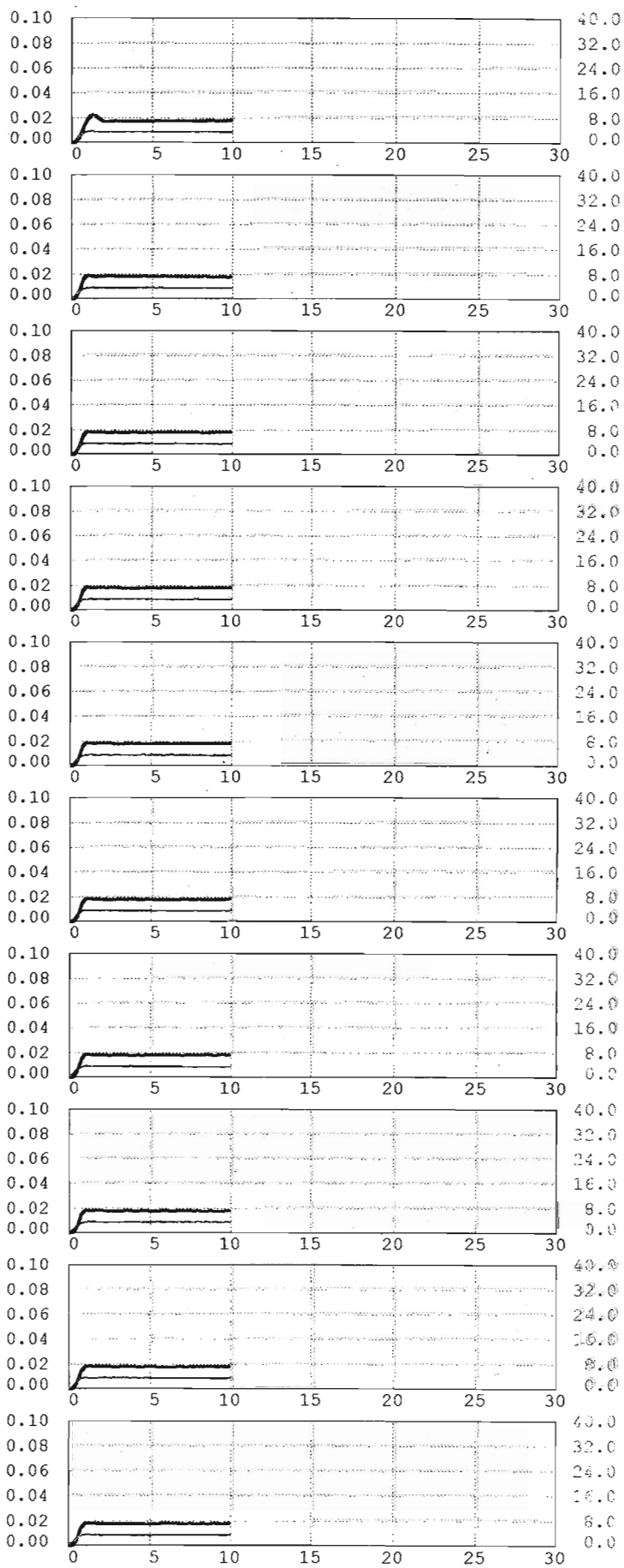
Date: 03/20/2008
Time: 13:55:24

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	13:56
INTERNAL STANDARD	PASSED	13:56
Xq = 0.1468 (0.55%)		
SIMULATOR VAPOR (34.0°C)	0.018	13:56
X[1] = 0.0184 (-0.0015) (0.0011)		
SIMULATOR VAPOR (34.0°C)	0.018	13:57
X[1] = 0.0189 (-0.0010) (0.0011)		
SIMULATOR VAPOR (33.9°C)	0.018	13:58
X[1] = 0.0184 (-0.0022) (0.0012)		
SIMULATOR VAPOR (33.9°C)	0.018	13:59
X[1] = 0.0186 (-0.0025) (0.0013)		
SIMULATOR VAPOR (33.9°C)	0.018	14:00
X[1] = 0.0187 (-0.0017) (0.0006)		
SIMULATOR VAPOR (33.9°C)	0.018	14:01
X[1] = 0.0184 (-0.0017) (0.0006)		
SIMULATOR VAPOR (33.9°C)	0.018	14:02
X[1] = 0.0185 (-0.0021) (0.0011)		
SIMULATOR VAPOR (33.9°C)	0.018	14:03
X[1] = 0.0186 (-0.0019) (0.0006)		
SIMULATOR VAPOR (33.9°C)	0.018	14:04
X[1] = 0.0185 (-0.0020) (0.0012)		
SIMULATOR VAPOR (33.9°C)	0.018	14:05
X[1] = 0.0184 (-0.0018) (0.0006)		
BLANK TEST	0.000	14:06

Average = 0.0180
Std Dev = 0.0000



03/20/2008 14:20

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

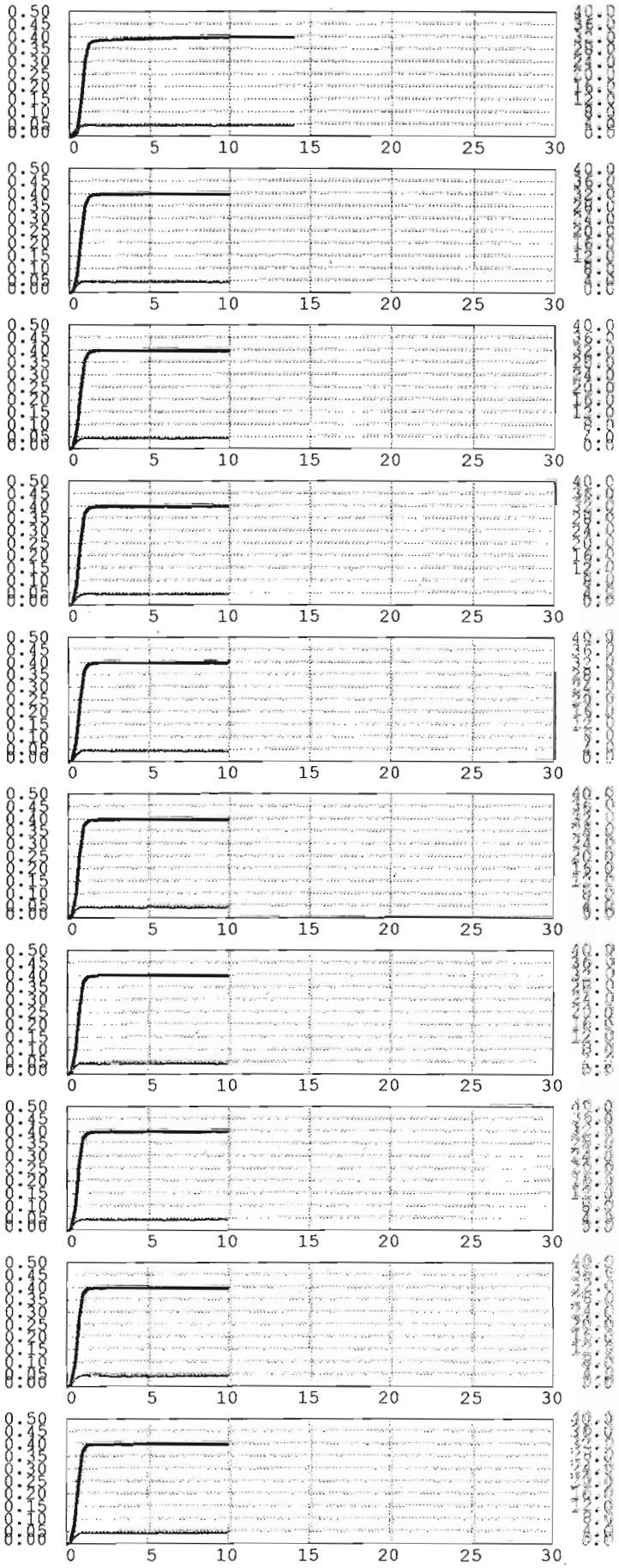
Date: 03/20/2008
Time: 14:21:35

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	14:22
INTERNAL STANDARD		PASSED	14:22
Xq = 0.1463 (0.18%)			
SIMULATOR VAPOR (33.8°C)		0.394	14:23
X[1] = 0.3948 (0.0003)	(0.0134)		
SIMULATOR VAPOR (33.8°C)		0.394	14:24
X[1] = 0.3945 (0.0009)	(0.0128)		
SIMULATOR VAPOR (33.8°C)		0.394	14:25
X[1] = 0.3943 (0.0005)	(0.0122)		
SIMULATOR VAPOR (33.7°C)		0.395	14:26
X[1] = 0.3955 (0.0002)	(0.0113)		
SIMULATOR VAPOR (33.7°C)		0.395	14:27
X[1] = 0.3956 (0.0007)	(0.0122)		
SIMULATOR VAPOR (33.8°C)		0.395	14:28
X[1] = 0.3954 (0.0004)	(0.0124)		
SIMULATOR VAPOR (33.8°C)		0.396	14:29
X[1] = 0.3963 (0.0021)	(0.0132)		
SIMULATOR VAPOR (33.7°C)		0.396	14:30
X[1] = 0.3967 (-0.0001)	(0.0131)		
SIMULATOR VAPOR (33.7°C)		0.395	14:31
X[1] = 0.3955 (0.0003)	(0.0148)		
SIMULATOR VAPOR (33.8°C)		0.396	14:32
X[1] = 0.3966 (0.0016)	(0.0133)		
BLANK TEST		0.000	14:32

Average = 0.3950
Std Dev = 0.0008



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

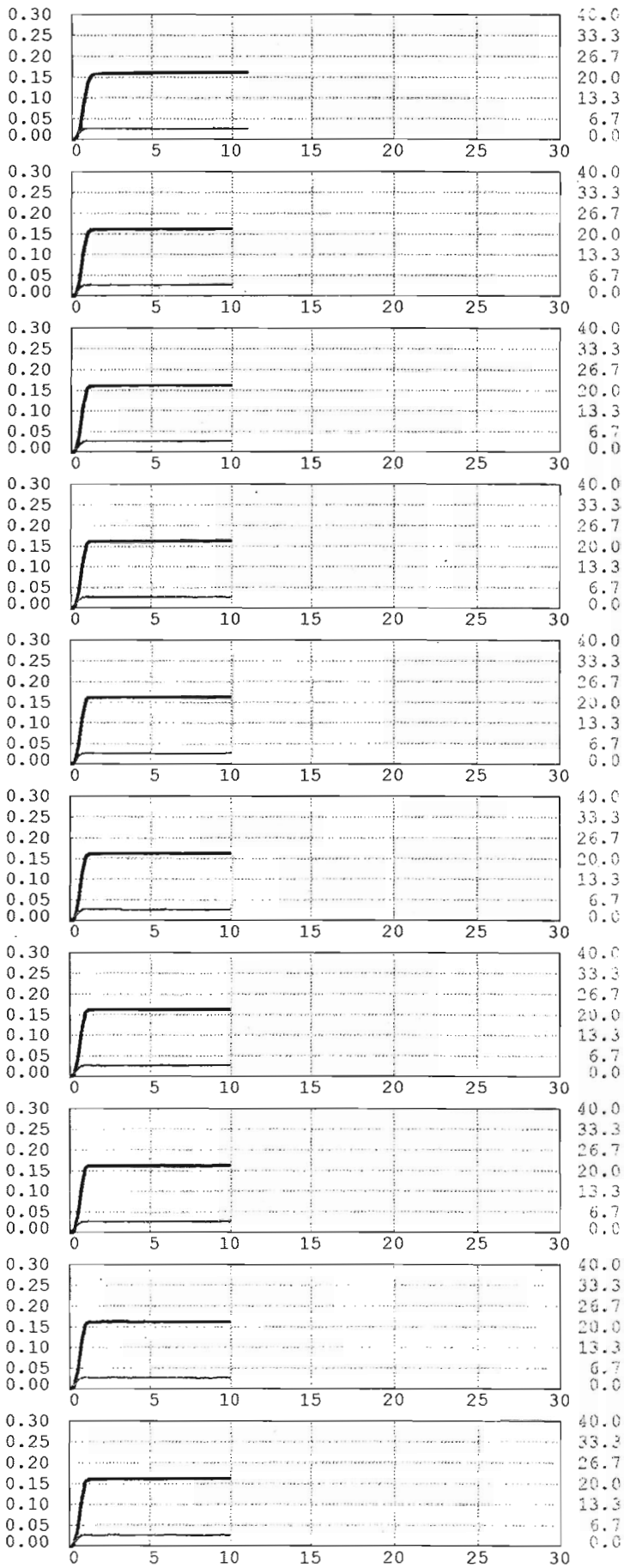
Date: 03/20/2008
Time: 14:43:04

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	14:44
INTERNAL STANDARD		PASSED	14:44
Xq = 0.1466	(0.378)		
SIMULATOR VAPOR (33.7°C)		0.161	14:44
X[1] = 0.1617	(-0.0009)	(0.0059)	
SIMULATOR VAPOR (33.6°C)		0.161	14:45
X[1] = 0.1618	(-0.0010)	(0.0052)	
SIMULATOR VAPOR (33.7°C)		0.162	14:46
X[1] = 0.1623	(-0.0011)	(0.0050)	
SIMULATOR VAPOR (33.6°C)		0.162	14:47
X[1] = 0.1620	(-0.0011)	(0.0048)	
SIMULATOR VAPOR (33.6°C)		0.162	14:48
X[1] = 0.1625	(-0.0016)	(0.0048)	
SIMULATOR VAPOR (33.6°C)		0.162	14:49
X[1] = 0.1626	(-0.0012)	(0.0055)	
SIMULATOR VAPOR (33.7°C)		0.162	14:50
X[1] = 0.1626	(-0.0008)	(0.0053)	
SIMULATOR VAPOR		INTERFERENCE	14:51
X[1] = 0.1620	(-0.0020)	(0.0088)	
SIMULATOR VAPOR (33.7°C)		0.162	14:52
X[1] = 0.1621	(-0.0023)	(0.0054)	
SIMULATOR VAPOR (33.6°C)		0.162	14:53
X[1] = 0.1621	(-0.0015)	(0.0041)	
BLANK TEST		0.000	14:54

Avg = .162
Std dev = .0003



03/20/2008 15:02

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date: 03/14/2008
Installation Date: 03/14/2008
Test Date: 03/21/2008
Time: 11:39

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.74°C
Breath Tube    = 47.15°C
Digital Sim    = 33.7°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.64 V
Bias Voltage   = 81.0 V
Chopper Freq   = 543.1 Hz

PUMP INFO
Flow Rate = 4.491 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)  -0.0957   -0.0937
MIN(V)  -0.0982   -0.0957

FILTER INFO
Filter 1 -0.096  Zero = true
Filter 2  0.391  Zero = true
Filter 3 -0.095  Zero = true

INTERNAL STANDARD
Xq = 0.1461  0.068
```

03/21/2008 11:44

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

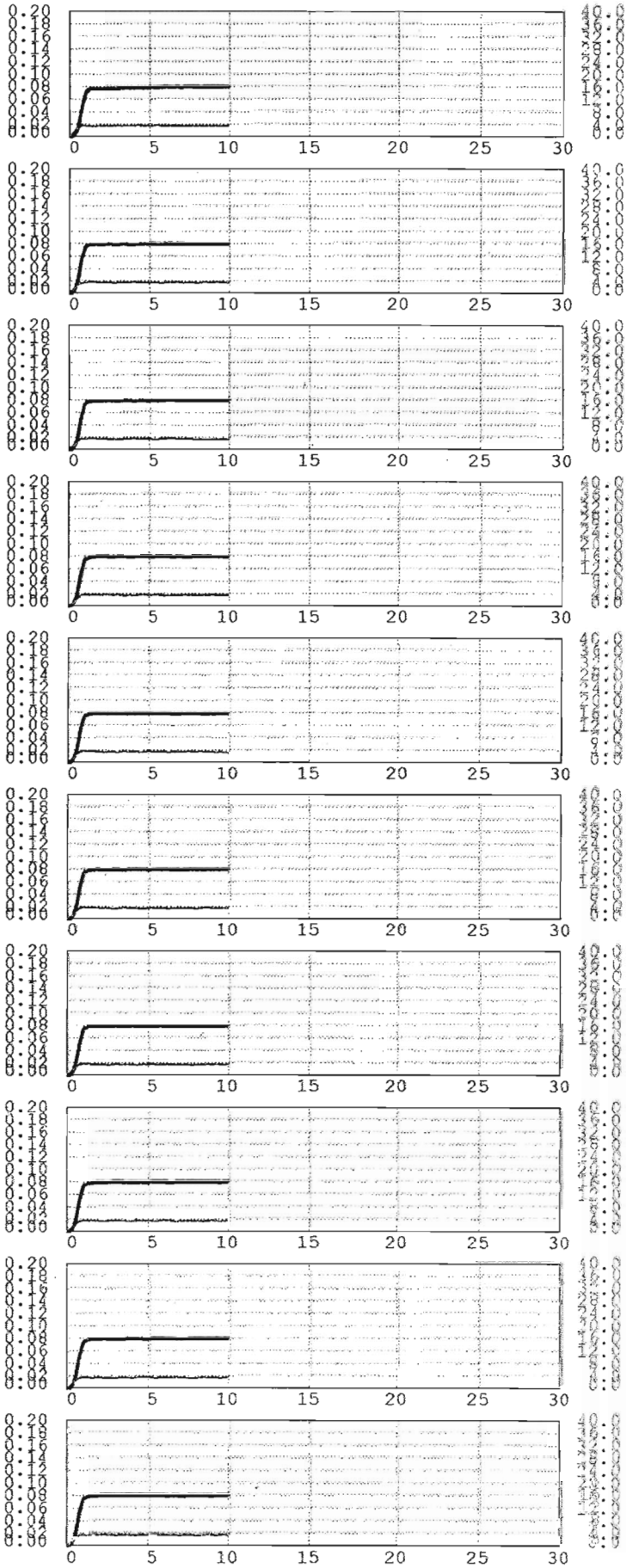
Date: 03/21/2008
Time: 11:46:34

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	11:47
INTERNAL STANDARD		PASSED	11:47
Xq = 0.1464 (0.24%)			
SIMULATOR VAPOR (33.6°C)		0.079	11:47
X[1] = 0.0792	(-0.0021)	(0.0024)	
SIMULATOR VAPOR (33.7°C)		0.079	11:48
X[1] = 0.0795	(-0.0019)	(0.0022)	
SIMULATOR VAPOR (33.7°C)		0.079	11:49
X[1] = 0.0799	(-0.0017)	(0.0020)	
SIMULATOR VAPOR (33.7°C)		0.079	11:50
X[1] = 0.0793	(-0.0027)	(0.0025)	
SIMULATOR VAPOR (33.6°C)		0.079	11:51
X[1] = 0.0790	(-0.0027)	(0.0013)	
SIMULATOR VAPOR (33.7°C)		0.079	11:52
X[1] = 0.0799	(-0.0018)	(0.0019)	
SIMULATOR VAPOR (33.7°C)		0.079	11:53
X[1] = 0.0791	(-0.0024)	(0.0020)	
SIMULATOR VAPOR (33.6°C)		0.079	11:54
X[1] = 0.0796	(-0.0028)	(0.0019)	
SIMULATOR VAPOR (33.7°C)		0.079	11:55
X[1] = 0.0794	(-0.0022)	(0.0016)	
SIMULATOR VAPOR (33.7°C)		0.079	11:56
X[1] = 0.0794	(-0.0025)	(0.0019)	
BLANK TEST		0.000	11:57

Average = 0.0790
Std Dev = 0.0000



03/21/2008 14:05

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

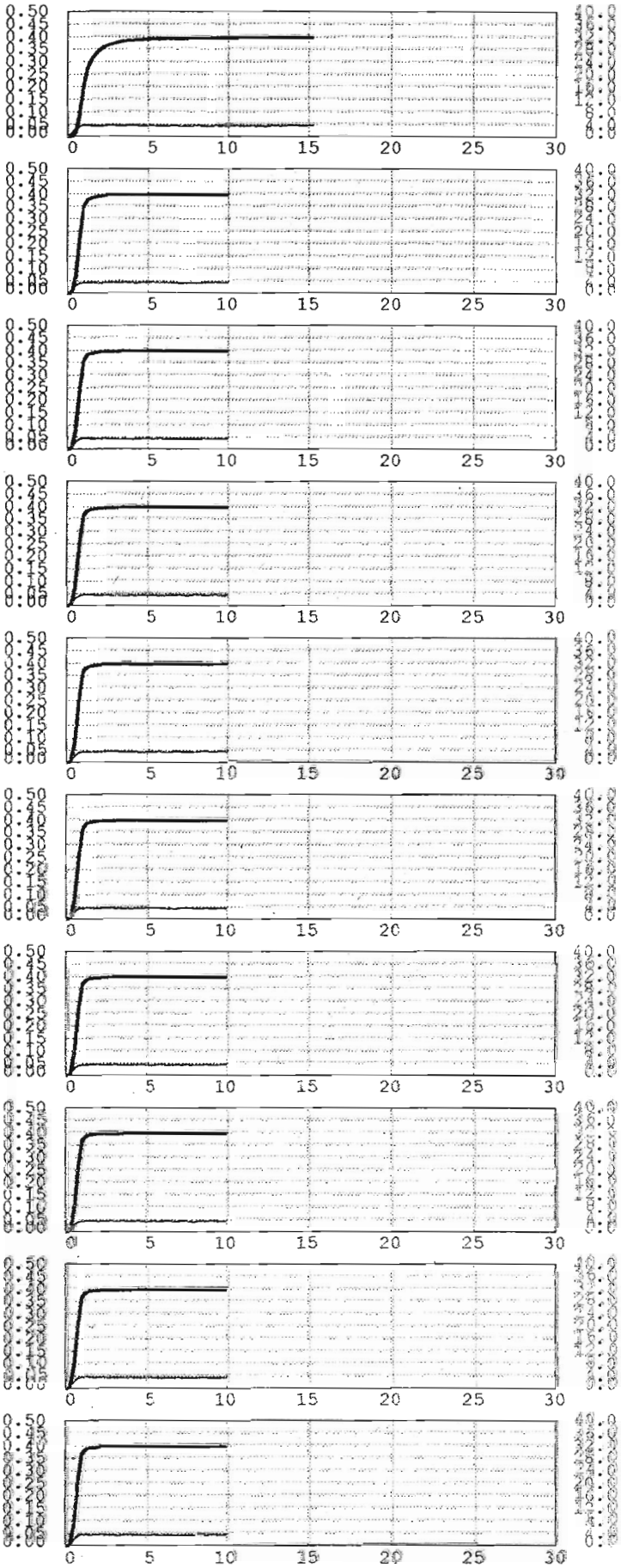
Date: 03/21/2008
Time: 12:14:11

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	12:15
INTERNAL STANDARD		PASSED	12:15
Xq = 0.1460	(0.00%)		
SIMULATOR VAPOR (33.8°C)		0.394	12:15
X[1] = 0.3943	(0.0006)	(0.0103)	
SIMULATOR VAPOR (33.7°C)		0.393	12:16
X[1] = 0.3938	(0.0000)	(0.0094)	
SIMULATOR VAPOR (33.8°C)		0.393	12:17
X[1] = 0.3934	(0.0001)	(0.0094)	
SIMULATOR VAPOR (33.7°C)		0.393	12:18
X[1] = 0.3935	(-0.0003)	(0.0092)	
SIMULATOR VAPOR (33.7°C)		0.393	12:19
X[1] = 0.3938	(-0.0006)	(0.0090)	
SIMULATOR VAPOR (33.8°C)		0.393	12:20
X[1] = 0.3934	(-0.0008)	(0.0088)	
SIMULATOR VAPOR (33.8°C)		0.394	12:21
X[1] = 0.3946	(-0.0004)	(0.0093)	
SIMULATOR VAPOR (33.8°C)		0.394	12:22
X[1] = 0.3944	(-0.0016)	(0.0099)	
SIMULATOR VAPOR (33.7°C)		0.393	12:23
X[1] = 0.3932	(-0.0007)	(0.0098)	
SIMULATOR VAPOR (33.8°C)		0.393	12:24
X[1] = 0.3936	(-0.0016)	(0.0095)	
BLANK TEST		0.000	12:25

Average = 0.3933
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

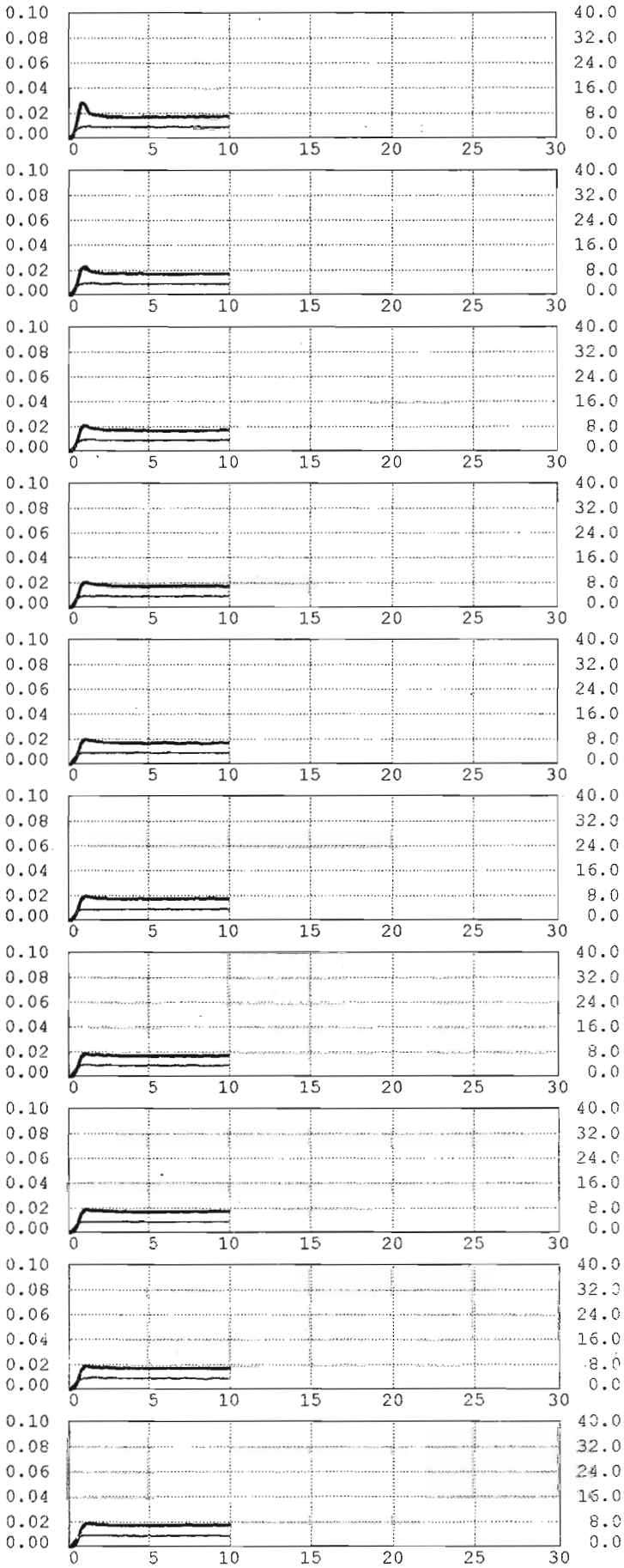
Date: 03/21/2008
Time: 13:25:42

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	13:26
INTERNAL STANDARD	PASSED	13:26
Xq = 0.1461 (0.068)		
SIMULATOR VAPOR (33.9°C)	0.017	13:27
X[1] = 0.0179 (-0.0020) (0.0011)		
SIMULATOR VAPOR (33.9°C)	0.018	13:28
X[1] = 0.0181 (-0.0020) (0.0007)		
SIMULATOR VAPOR (33.9°C)	0.018	13:29
X[1] = 0.0181 (-0.0024) (0.0007)		
SIMULATOR VAPOR (33.9°C)	0.018	13:30
X[1] = 0.0183 (-0.0019) (0.0005)		
SIMULATOR VAPOR (33.9°C)	0.017	13:31
X[1] = 0.0179 (-0.0026) (-0.0001)		
SIMULATOR VAPOR (34.0°C)	0.018	13:31
X[1] = 0.0182 (-0.0023) (0.0010)		
SIMULATOR VAPOR (33.9°C)	0.017	13:32
X[1] = 0.0178 (-0.0028) (0.0004)		
SIMULATOR VAPOR (33.9°C)	0.018	13:33
X[1] = 0.0180 (-0.0027) (0.0007)		
SIMULATOR VAPOR (33.9°C)	0.017	13:34
X[1] = 0.0179 (-0.0026) (0.0007)		
SIMULATOR VAPOR (33.9°C)	0.018	13:35
X[1] = 0.0182 (-0.0021) (0.0007)		
BLANK TEST	0.000	13:36

Average = 0.0176
Std Dev = 0.0005



03/21/2008 14:06

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

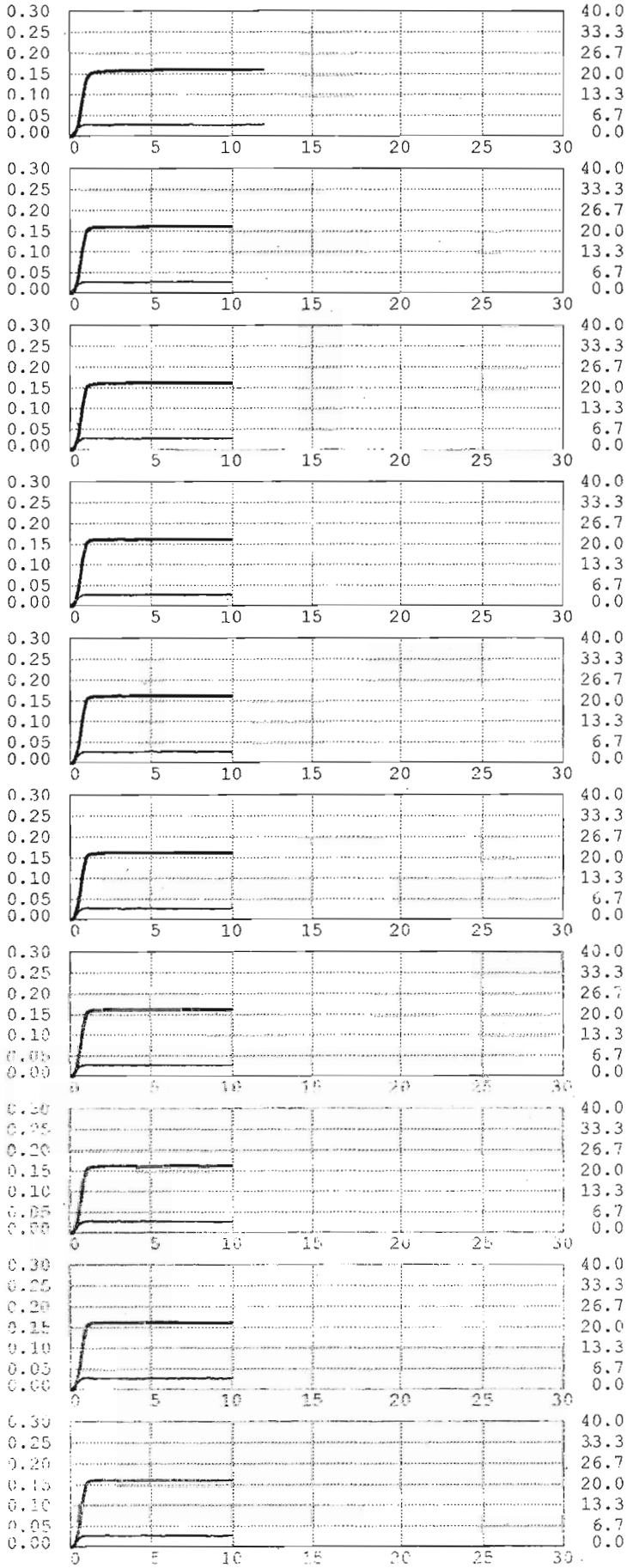
Date: 03/21/2008
Time: 13:45:28

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	13:46
INTERNAL STANDARD		PASSED	13:46
Xq = 0.1464	(0.248)		
SIMULATOR VAPOR (33.6°C)		0.159	13:46
X[1] = 0.1599	(-0.0013)	(0.0044)	
SIMULATOR VAPOR (33.7°C)		0.160	13:47
X[1] = 0.1609	(-0.0007)	(0.0035)	
SIMULATOR VAPOR (33.7°C)		0.161	13:48
X[1] = 0.1614	(-0.0023)	(0.0036)	
SIMULATOR VAPOR (33.6°C)		0.161	13:49
X[1] = 0.1610	(-0.0019)	(0.0038)	
SIMULATOR VAPOR (33.6°C)		0.161	13:50
X[1] = 0.1612	(-0.0018)	(0.0035)	
SIMULATOR VAPOR (33.7°C)		0.161	13:51
X[1] = 0.1615	(-0.0012)	(0.0045)	
SIMULATOR VAPOR (33.6°C)		0.161	13:52
X[1] = 0.1611	(-0.0014)	(0.0036)	
SIMULATOR VAPOR (33.7°C)		0.161	13:53
X[1] = 0.1612	(-0.0015)	(0.0040)	
SIMULATOR VAPOR (33.6°C)		0.160	13:54
X[1] = 0.1609	(-0.0019)	(0.0033)	
SIMULATOR VAPOR (33.7°C)		0.161	13:55
X[1] = 0.1617	(-0.0016)	(0.0040)	
BLANK TEST		0.000	13:56

Average = 0.1606
Std Dev = 0.0007



03/21/2008 14:08

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date: 03/14/2008
Installation Date: 03/14/2008
Test Date: 03/24/2008
Time: 14:01

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 49.09°C
Breath Tube    = 46.18°C
Digital Sim    = 33.7°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.61 V
Bias Voltage   = 81.0 V
Chopper Freq   = 541.7 Hz

PUMP INFO
Flow Rate = 4.567 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0549   0.0579
MIN(V)   0.0518   0.0551

FILTER INFO
Filter 1  0.055  Zero = true
Filter 2  0.527  Zero = true
Filter 3  0.055  Zero = true

INTERNAL STANDARD
Xq = 0.1459  0.06%
```

03/24/2008 14:02

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

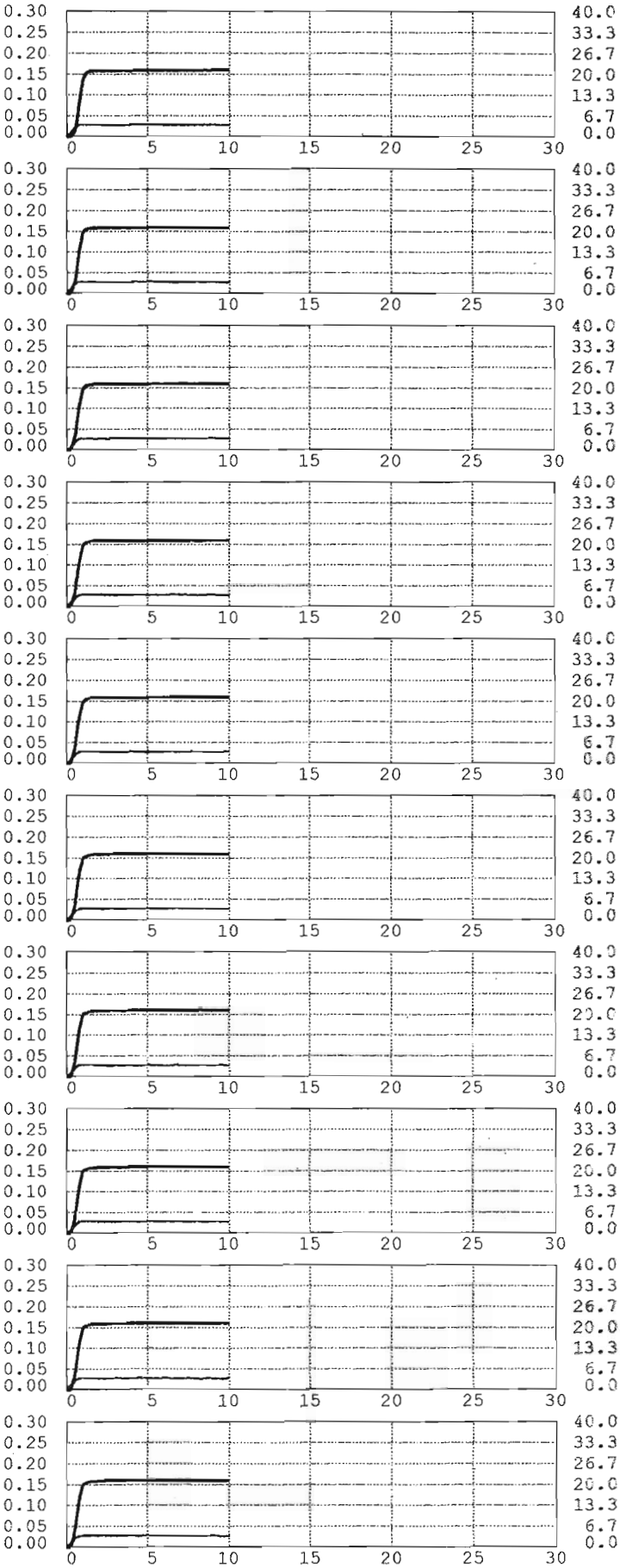
Date: 03/24/2008
Time: 14:04:41

SUPERVISOR NAME: H X B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	14:05
INTERNAL STANDARD	PASSED	14:05
Xq = 0.1459 (0.06%)		
SIMULATOR VAPOR (33.7°C)	0.159	14:06
X[1] = 0.1591 (-0.0008) (0.0018)		
SIMULATOR VAPOR (33.7°C)	0.159	14:07
X[1] = 0.1592 (-0.0012) (0.0020)		
SIMULATOR VAPOR (33.6°C)	0.159	14:08
X[1] = 0.1595 (-0.0011) (0.0017)		
SIMULATOR VAPOR (33.7°C)	0.159	14:09
X[1] = 0.1594 (-0.0019) (0.0023)		
SIMULATOR VAPOR (33.7°C)	0.159	14:10
X[1] = 0.1596 (-0.0019) (0.0012)		
SIMULATOR VAPOR (33.7°C)	0.160	14:11
X[1] = 0.1601 (-0.0017) (0.0018)		
SIMULATOR VAPOR (33.7°C)	0.160	14:11
X[1] = 0.1601 (-0.0009) (0.0019)		
SIMULATOR VAPOR (33.7°C)	0.160	14:12
X[1] = 0.1601 (-0.0019) (0.0021)		
SIMULATOR VAPOR (33.7°C)	0.160	14:13
X[1] = 0.1604 (-0.0011) (0.0019)		
SIMULATOR VAPOR (33.7°C)	0.160	14:14
X[1] = 0.1605 (-0.0015) (0.0024)		
BLANK TEST	0.000	14:15

Average = 0.1595
Std Dev = 0.0005



05/19/2008 10:04

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

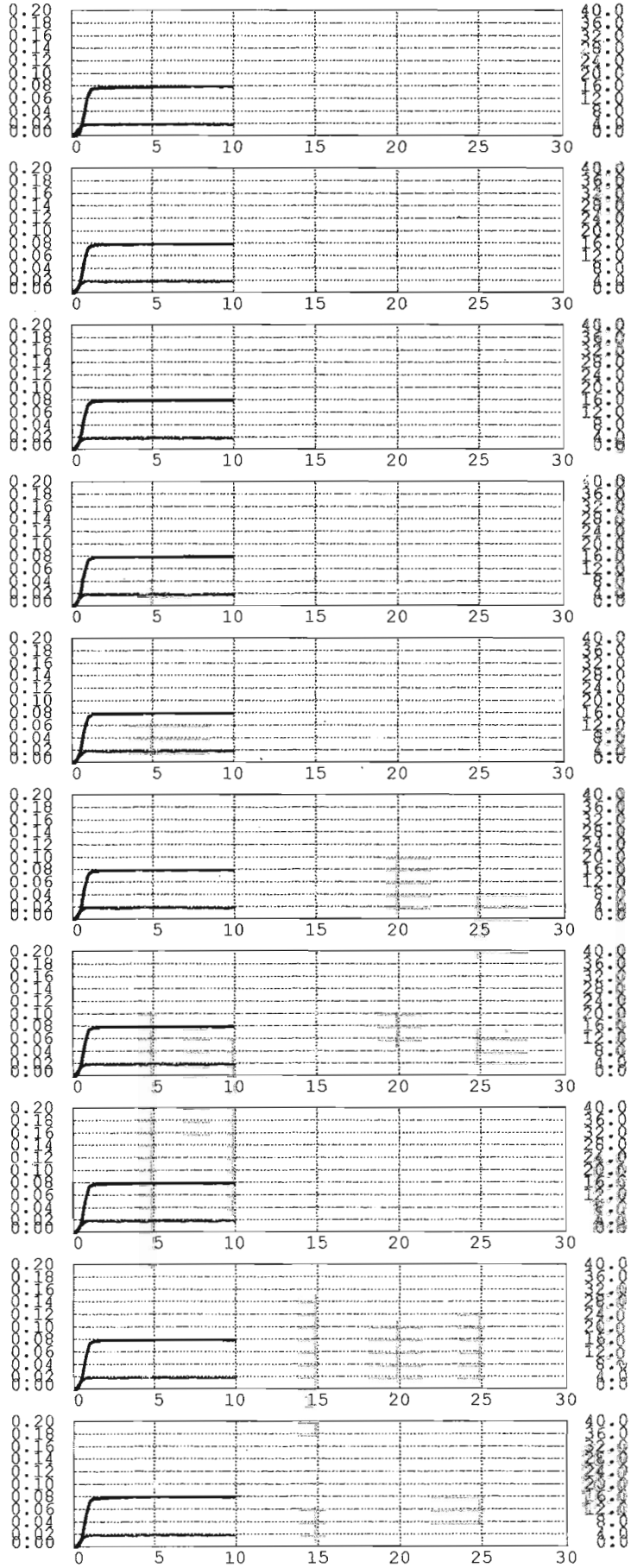
Date: 03/24/2008
Time: 14:21:57

SUPERVISOR NAME: H X B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	14:22
INTERNAL STANDARD	PASSED	14:23
Xq = 0.1464 (0.24%)		
SIMULATOR VAPOR (33.7°C)	0.078	14:23
X[1] = 0.0785 (-0.0010) (0.0021)		
SIMULATOR VAPOR (33.7°C)	0.078	14:24
X[1] = 0.0789 (-0.0014) (0.0020)		
SIMULATOR VAPOR (33.7°C)	0.079	14:25
X[1] = 0.0793 (-0.0012) (0.0017)		
SIMULATOR VAPOR (33.7°C)	0.079	14:26
X[1] = 0.0791 (-0.0009) (0.0017)		
SIMULATOR VAPOR (33.7°C)	0.079	14:27
X[1] = 0.0794 (-0.0012) (0.0014)		
SIMULATOR VAPOR (33.7°C)	0.079	14:28
X[1] = 0.0790 (-0.0026) (0.0024)		
SIMULATOR VAPOR (33.7°C)	0.079	14:29
X[1] = 0.0790 (-0.0018) (0.0016)		
SIMULATOR VAPOR (33.6°C)	0.079	14:30
X[1] = 0.0791 (-0.0015) (0.0020)		
SIMULATOR VAPOR (33.7°C)	0.078	14:31
X[1] = 0.0789 (-0.0021) (0.0020)		
SIMULATOR VAPOR (33.7°C)	0.079	14:32
X[1] = 0.0792 (-0.0016) (0.0018)		
BLANK TEST	0.000	14:32

Average = 0.0787
Std Dev = 0.0005



05/19/2008 10:04

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

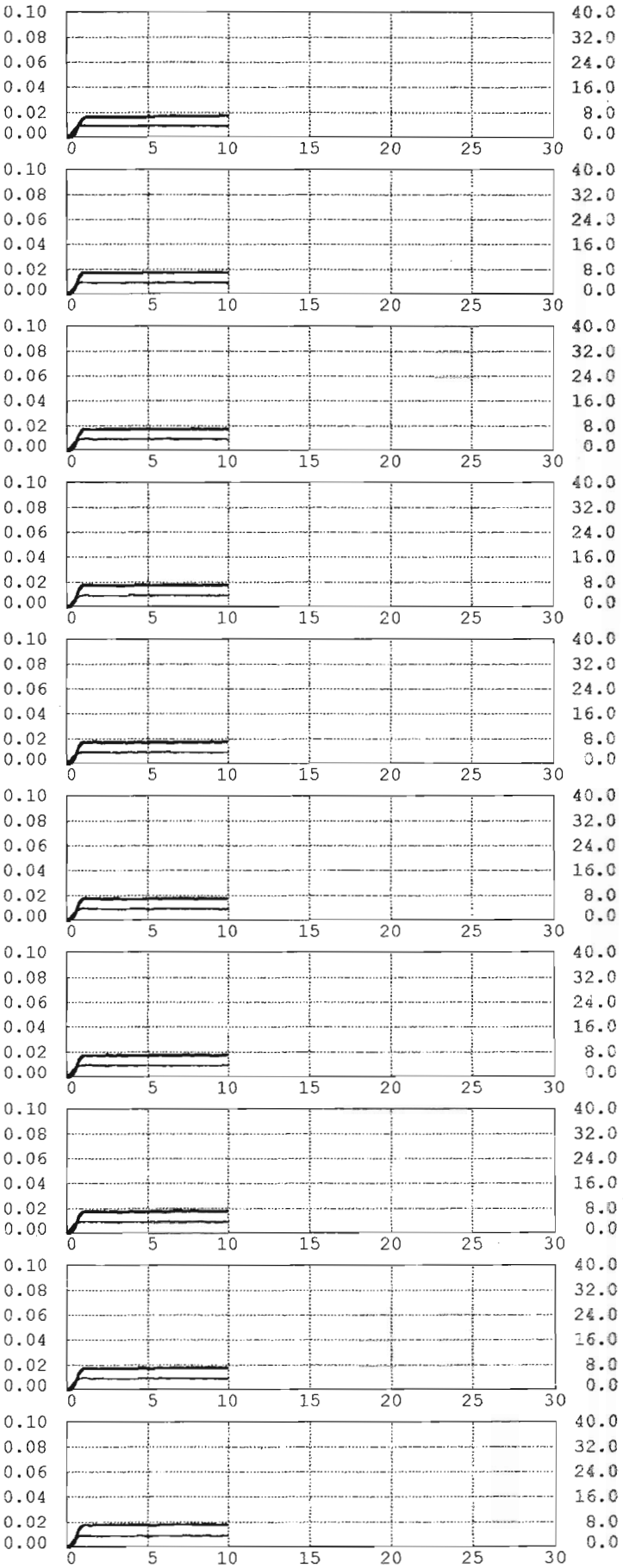
Date: 03/24/2008
Time: 14:39:04

SUPERVISOR NAME: H X B

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	14:40
INTERNAL STANDARD	PASSED	14:40
Xq = 0.1462 (0.12%)		
SIMULATOR VAPOR (34.0°C)	0.017	14:40
X[1] = 0.0175 (-0.0015) (0.0010)		
SIMULATOR VAPOR (34.0°C)	0.018	14:41
X[1] = 0.0183 (-0.0008) (0.0010)		
SIMULATOR VAPOR (34.0°C)	0.018	14:42
X[1] = 0.0182 (-0.0013) (0.0008)		
SIMULATOR VAPOR (33.9°C)	0.018	14:43
X[1] = 0.0183 (0.0000) (0.0006)		
SIMULATOR VAPOR (33.9°C)	0.018	14:44
X[1] = 0.0180 (-0.0017) (0.0001)		
SIMULATOR VAPOR (34.0°C)	0.018	14:45
X[1] = 0.0182 (-0.0021) (0.0007)		
SIMULATOR VAPOR (34.0°C)	0.018	14:46
X[1] = 0.0182 (-0.0009) (0.0012)		
SIMULATOR VAPOR (33.9°C)	0.018	14:47
X[1] = 0.0183 (-0.0019) (0.0006)		
SIMULATOR VAPOR (34.0°C)	0.018	14:48
X[1] = 0.0180 (-0.0021) (0.0004)		
SIMULATOR VAPOR (34.0°C)	0.018	14:49
X[1] = 0.0184 (-0.0018) (0.0006)		
BLANK TEST	0.000	14:50

Average = 0.0179
Std Dev = 0.0003



05/19/2008 10:05

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

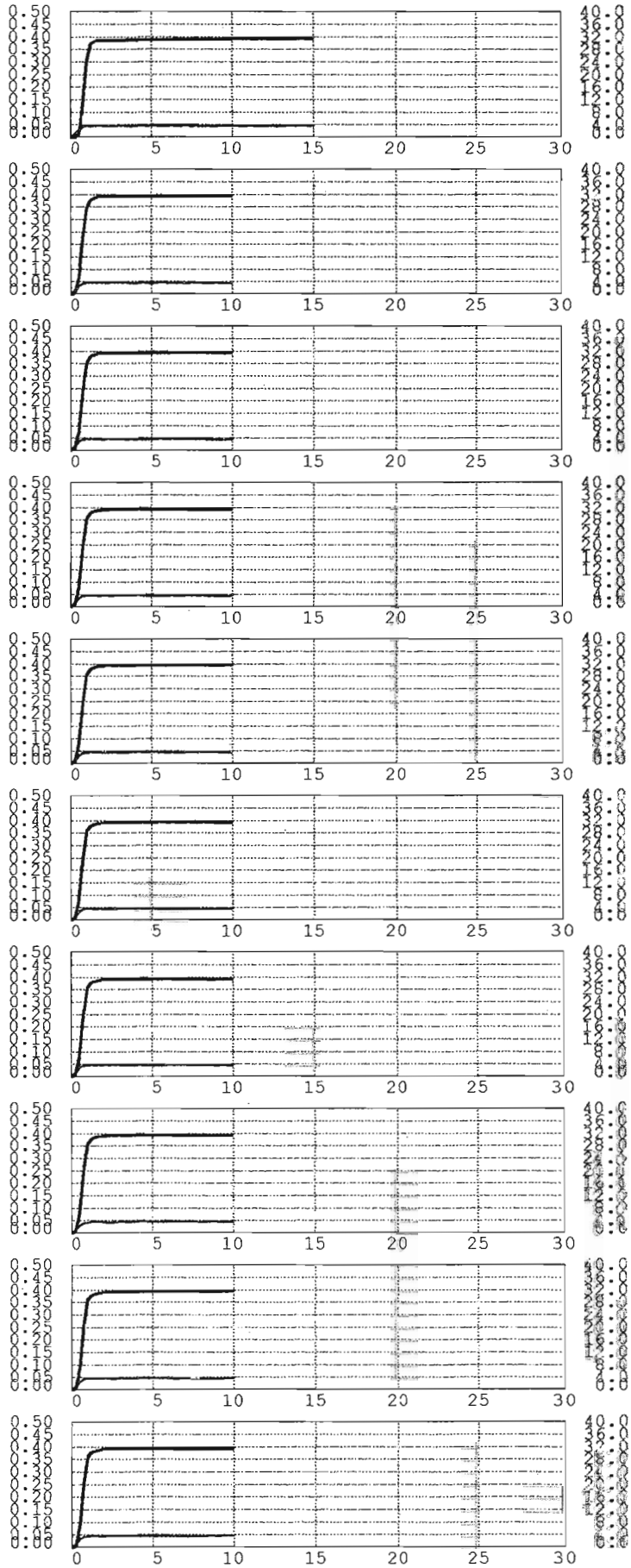
Date: 03/24/2008
Time: 14:57:50

SUPERVISOR NAME: H X B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	14:58
INTERNAL STANDARD		PASSED	14:58
Xq = 0.1466 (0.37%)			
SIMULATOR VAPOR (33.8°C)		0.389	14:59
X[1] = 0.3899	(0.0017)	(0.0108)	
SIMULATOR VAPOR (33.8°C)		0.390	15:00
X[1] = 0.3906	(0.0019)	(0.0113)	
SIMULATOR VAPOR (33.8°C)		0.391	15:01
X[1] = 0.3916	(0.0016)	(0.0112)	
SIMULATOR VAPOR (33.7°C)		0.390	15:02
X[1] = 0.3901	(0.0003)	(0.0103)	
SIMULATOR VAPOR (33.8°C)		0.391	15:03
X[1] = 0.3910	(0.0024)	(0.0117)	
SIMULATOR VAPOR (33.8°C)		0.390	15:04
X[1] = 0.3907	(0.0005)	(0.0111)	
SIMULATOR VAPOR (33.8°C)		0.390	15:05
X[1] = 0.3905	(0.0001)	(0.0107)	
SIMULATOR VAPOR (33.8°C)		0.390	15:06
X[1] = 0.3905	(0.0003)	(0.0107)	
SIMULATOR VAPOR (33.8°C)		0.391	15:07
X[1] = 0.3914	(0.0004)	(0.0105)	
SIMULATOR VAPOR (33.8°C)		0.390	15:08
X[1] = 0.3906	(0.0002)	(0.0113)	
BLANK TEST		0.000	15:09

Average = 0.3902
Std Dev = 0.0006



05/19/2008 10:05

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date: 03/14/2008
Installation Date: 03/14/2008
Test Date: 03/25/2008
Time: 09:49

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 49.09°C
Breath Tube    = 45.15°C
Digital Sim    = 33.7°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.60 V
Bias Voltage   = 80.9 V
Chopper Freq   = 540.1 Hz

PUMP INFO
Flow Rate = 4.578 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.0500    0.0528
MIN(V)   0.0480    0.0506

FILTER INFO
Filter 1  0.051  Zero = true
Filter 2  0.522  Zero = true
Filter 3  0.051  Zero = true

INTERNAL STANDARD
Xq = 0.1462  0.12%
```

03/25/2008 09:52

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

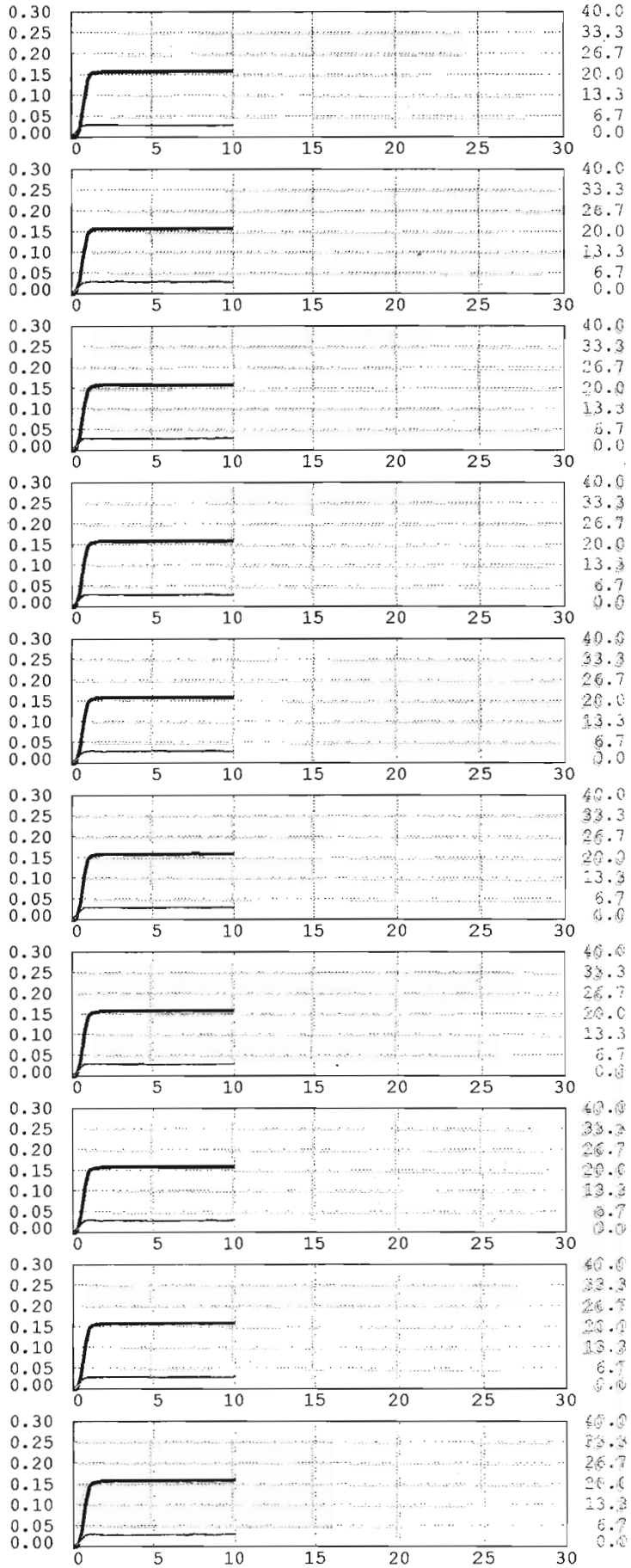
Date: 03/25/2008
Time: 09:52:35

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	09:53
INTERNAL STANDARD	PASSED	09:53
Xq = 0.1461 (0.06%)		
SIMULATOR VAPOR (33.7°C)	0.158	09:53
X[1] = 0.1580 (-0.0007) (0.0018)		
SIMULATOR VAPOR (33.7°C)	0.158	09:54
X[1] = 0.1583 (-0.0015) (0.0015)		
SIMULATOR VAPOR (33.7°C)	0.158	09:55
X[1] = 0.1588 (-0.0016) (0.0015)		
SIMULATOR VAPOR (33.7°C)	0.159	09:56
X[1] = 0.1596 (-0.0009) (0.0015)		
SIMULATOR VAPOR (33.7°C)	0.158	09:57
X[1] = 0.1587 (-0.0014) (0.0011)		
SIMULATOR VAPOR (33.7°C)	0.159	09:58
X[1] = 0.1594 (-0.0011) (0.0013)		
SIMULATOR VAPOR (33.7°C)	0.158	09:59
X[1] = 0.1587 (-0.0025) (0.0007)		
SIMULATOR VAPOR (33.7°C)	0.159	10:00
X[1] = 0.1591 (-0.0018) (0.0007)		
SIMULATOR VAPOR (33.7°C)	0.159	10:01
X[1] = 0.1593 (-0.0020) (0.0016)		
SIMULATOR VAPOR (33.7°C)	0.159	10:02
X[1] = 0.1593 (-0.0015) (0.0016)		
BLANK TEST	0.000	10:03

Average = 0.1585
Std Dev = 0.0005



03/25/2008 10:05

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

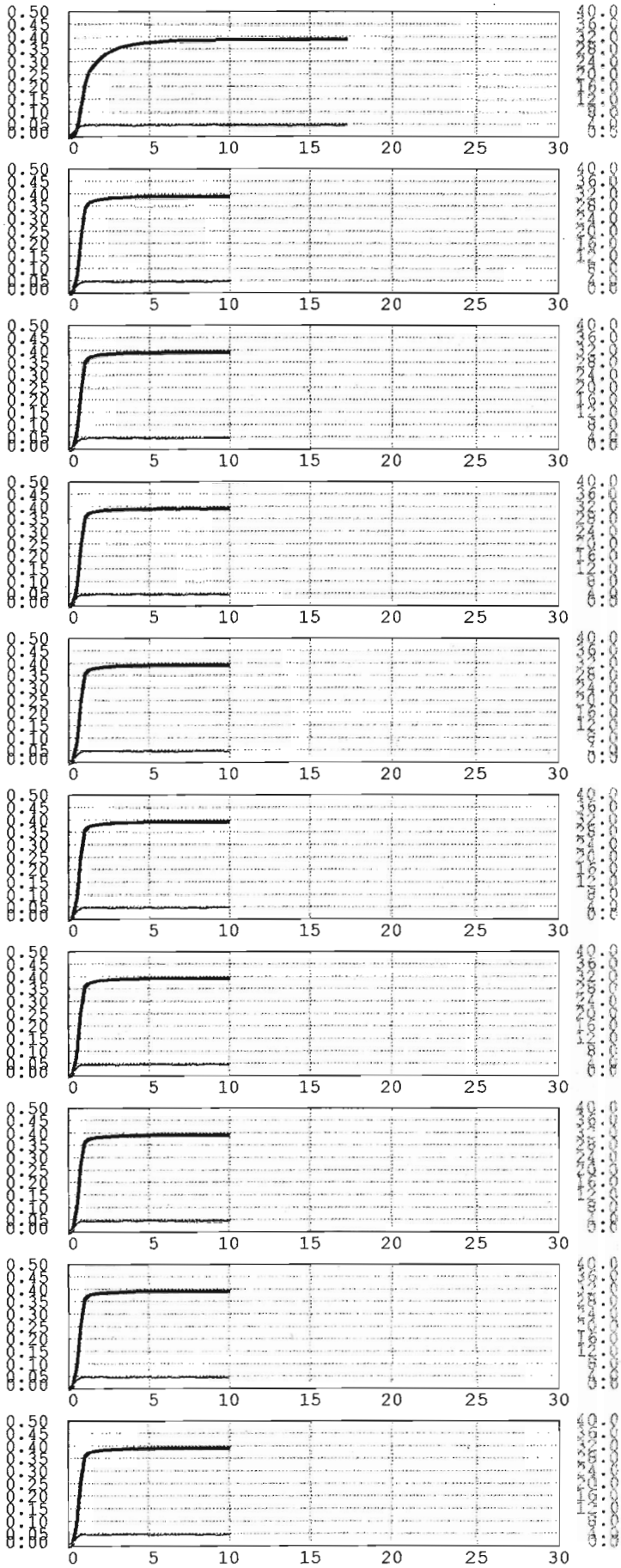
Date: 03/25/2008
Time: 10:07:30

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	10:08
INTERNAL STANDARD		PASSED	10:08
Xq = 0.1463 (0.18%)			
SIMULATOR VAPOR (33.8°C)		0.388	10:08
X[1] = 0.3887 (0.0009)	(0.0062)		
SIMULATOR VAPOR (33.9°C)		0.388	10:10
X[1] = 0.3887 (0.0001)	(0.0052)		
SIMULATOR VAPOR (33.8°C)		0.389	10:11
X[1] = 0.3896 (0.0005)	(0.0071)		
SIMULATOR VAPOR (33.8°C)		0.388	10:12
X[1] = 0.3889 (-0.0003)	(0.0054)		
SIMULATOR VAPOR (33.8°C)		0.389	10:13
X[1] = 0.3896 (0.0000)	(0.0060)		
SIMULATOR VAPOR (33.8°C)		0.389	10:14
X[1] = 0.3899 (0.0005)	(0.0060)		
SIMULATOR VAPOR (33.8°C)		0.390	10:15
X[1] = 0.3903 (0.0004)	(0.0065)		
SIMULATOR VAPOR (33.8°C)		0.389	10:16
X[1] = 0.3898 (0.0001)	(0.0068)		
SIMULATOR VAPOR (33.8°C)		0.390	10:17
X[1] = 0.3901 (0.0009)	(0.0067)		
SIMULATOR VAPOR (33.8°C)		0.390	10:18
X[1] = 0.3900 (0.0000)	(0.0063)		
BLANK TEST		0.000	10:18

Average = 0.3890
Std Dev = 0.0008



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

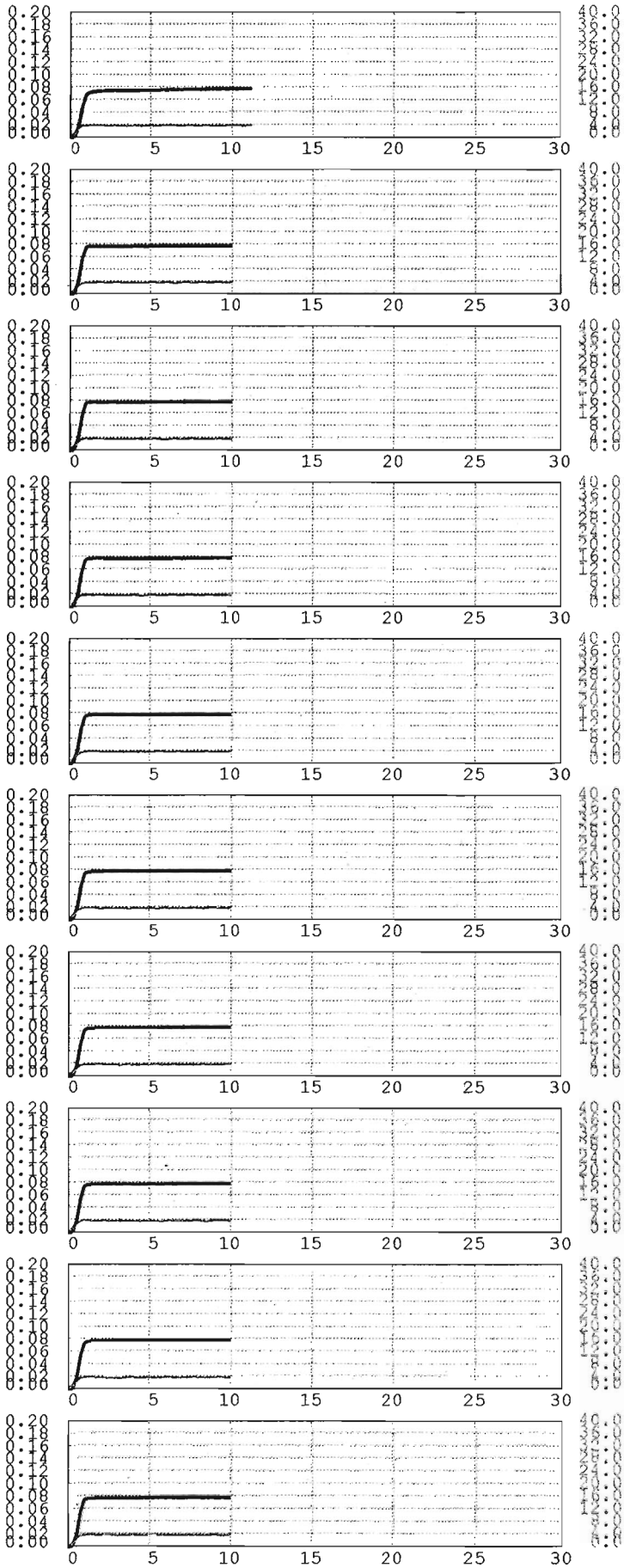
Date: 03/25/2008
Time: 10:24:17

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	10:25
INTERNAL STANDARD	PASSED	10:25
Xq = 0.1464 (0.24%)		
SIMULATOR VAPOR (33.7°C)	0.077	10:25
X[1] = 0.0779 (-0.0008) (0.0024)		
SIMULATOR VAPOR (33.7°C)	0.078	10:26
X[1] = 0.0780 (-0.0016) (0.0016)		
SIMULATOR VAPOR (33.7°C)	0.078	10:27
X[1] = 0.0789 (-0.0017) (0.0017)		
SIMULATOR VAPOR (33.7°C)	0.078	10:28
X[1] = 0.0787 (-0.0017) (0.0023)		
SIMULATOR VAPOR (33.7°C)	0.078	10:29
X[1] = 0.0787 (-0.0017) (0.0016)		
SIMULATOR VAPOR (33.7°C)	0.079	10:30
X[1] = 0.0790 (-0.0018) (0.0022)		
SIMULATOR VAPOR (33.7°C)	0.078	10:31
X[1] = 0.0786 (-0.0018) (0.0023)		
SIMULATOR VAPOR (33.7°C)	0.078	10:32
X[1] = 0.0786 (-0.0019) (0.0025)		
SIMULATOR VAPOR (33.7°C)	0.078	10:33
X[1] = 0.0788 (-0.0017) (0.0016)		
SIMULATOR VAPOR (33.7°C)	0.078	10:34
X[1] = 0.0783 (-0.0020) (0.0020)		
BLANK TEST	0.000	10:35

Average = 0.0780
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

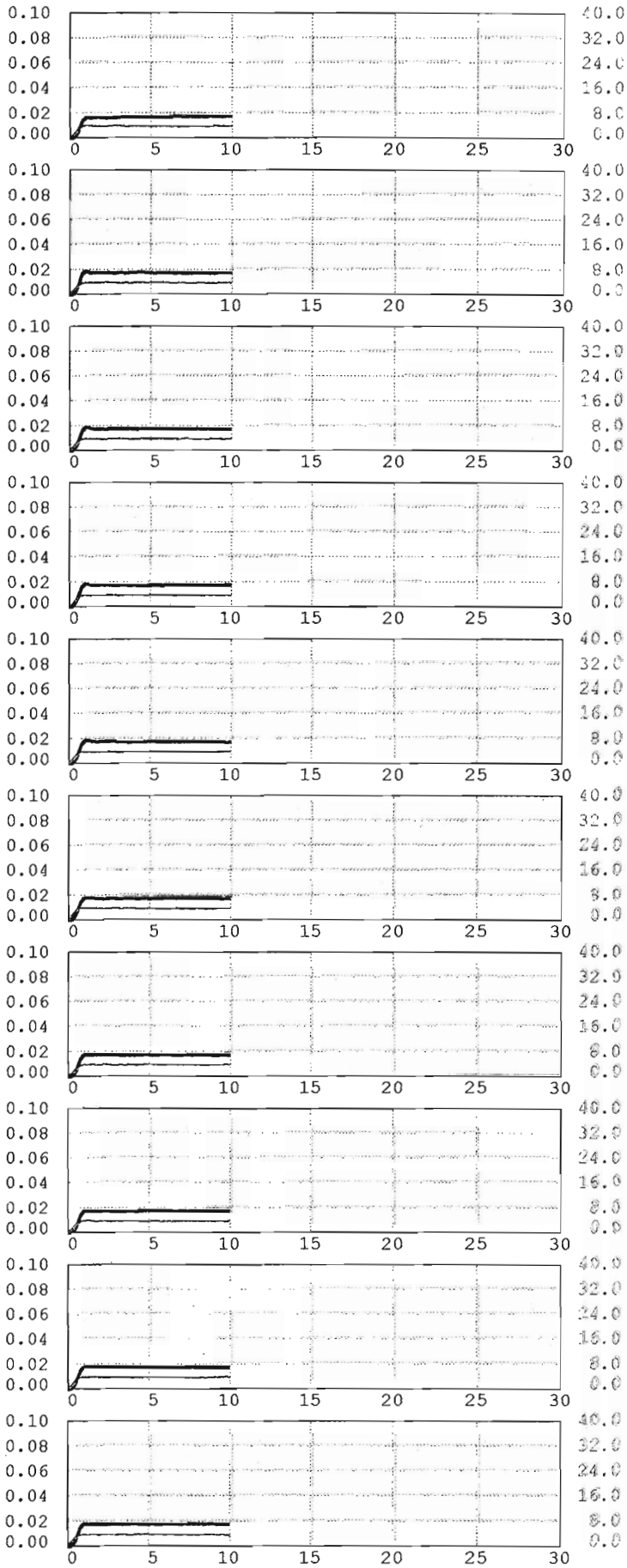
Date: 03/25/2008
Time: 10:40:46

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	10:41
INTERNAL STANDARD		PASSED	10:41
Xq = 0.1462 (0.12%)			
SIMULATOR VAPOR (33.9°C)		0.018	10:42
X[1] = 0.0181	(-0.0013)	(0.0011)	
SIMULATOR VAPOR (33.9°C)		0.018	10:43
X[1] = 0.0181	(-0.0017)	(0.0011)	
SIMULATOR VAPOR (34.0°C)		0.018	10:44
X[1] = 0.0185	(-0.0016)	(0.0004)	
SIMULATOR VAPOR (33.9°C)		0.018	10:45
X[1] = 0.0185	(-0.0016)	(0.0012)	
SIMULATOR VAPOR (34.0°C)		0.018	10:46
X[1] = 0.0182	(-0.0025)	(0.0010)	
SIMULATOR VAPOR (33.9°C)		0.018	10:47
X[1] = 0.0185	(-0.0021)	(0.0012)	
SIMULATOR VAPOR (33.9°C)		0.018	10:48
X[1] = 0.0182	(-0.0024)	(0.0008)	
SIMULATOR VAPOR (34.0°C)		0.018	10:49
X[1] = 0.0182	(-0.0021)	(0.0012)	
SIMULATOR VAPOR (33.9°C)		0.018	10:50
X[1] = 0.0184	(-0.0022)	(0.0006)	
SIMULATOR VAPOR (34.0°C)		0.018	10:51
X[1] = 0.0185	(-0.0012)	(0.0013)	
BLANK TEST		0.000	10:52

Average = 0.0180
Std Dev = 0.0000



DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date: 03/14/2008
Installation Date: 03/14/2008
Test Date: 03/26/2008
Time: 10:28

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 49.03°C
Breath Tube    = 46.17°C
Digital Sim    = 34.0°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.61 V
Bias Voltage   = 81.0 V
Chopper Freq   = 542.9 Hz

PUMP INFO
Flow Rate = 4.495 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0480   0.0502
MIN(V)   0.0453   0.0482

FILTER INFO
Filter 1  0.048  Zero = true
Filter 2  0.524  Zero = true
Filter 3  0.051  Zero = true

INTERNAL STANDARD
Xq = 0.1471  0.74%
```

03/26/2008 10:36

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

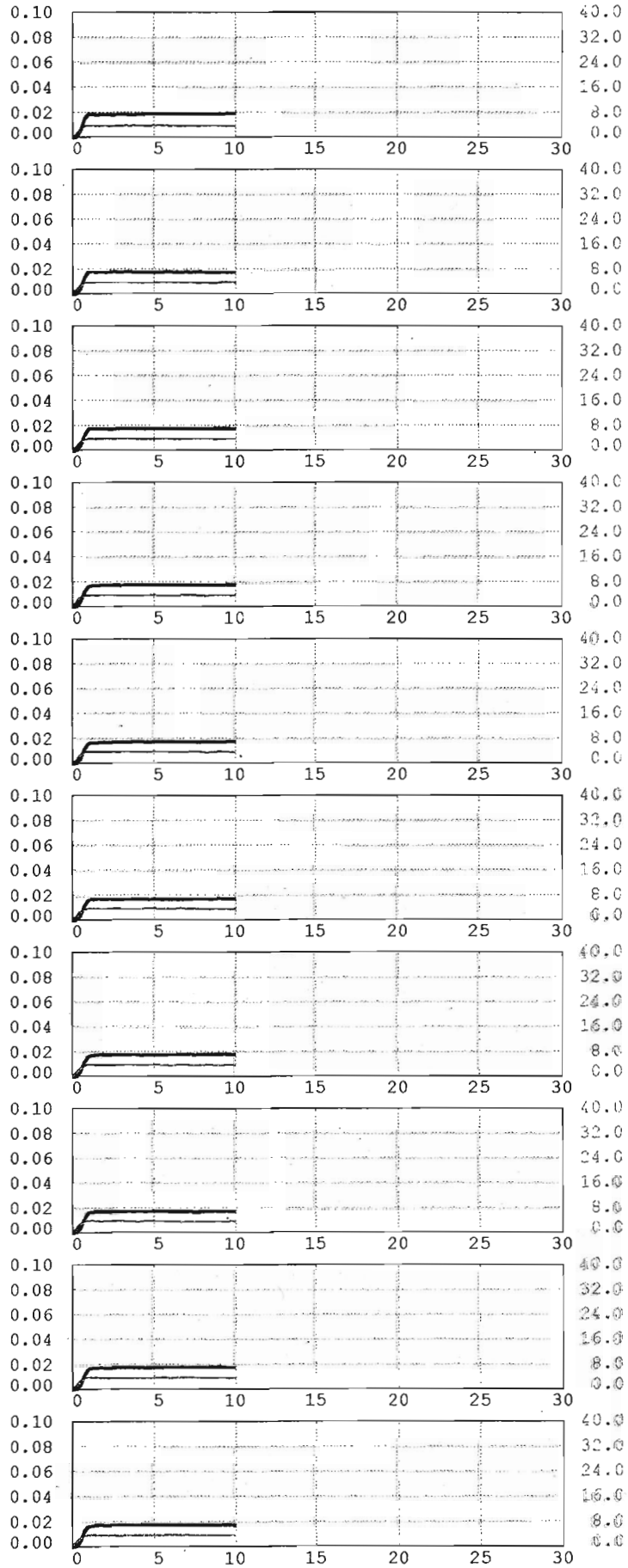
Date: 03/26/2008
Time: 10:42:19

SUPERVISOR NAME: RJD LINEARITY

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	10:43
INTERNAL STANDARD	PASSED	10:43
Xq = 0.1473 (0.86%)		
SIMULATOR VAPOR (33.9°C)	0.019	10:43
X[1] = 0.0197 (0.0005) (0.0018)		
SIMULATOR VAPOR (34.0°C)	0.018	10:44
X[1] = 0.0188 (-0.0010) (0.0013)		
SIMULATOR VAPOR (34.0°C)	0.018	10:45
X[1] = 0.0188 (-0.0011) (0.0006)		
SIMULATOR VAPOR (34.0°C)	0.018	10:46
X[1] = 0.0186 (-0.0020) (0.0003)		
SIMULATOR VAPOR (33.9°C)	0.018	10:47
X[1] = 0.0185 (-0.0015) (0.0000)		
SIMULATOR VAPOR (34.0°C)	0.018	10:48
X[1] = 0.0182 (-0.0023) (0.0004)		
SIMULATOR VAPOR	INTERFERENCE	10:49
X[1] = 0.0191 (-0.0014) (0.0060)		
SIMULATOR VAPOR (33.9°C)	0.018	10:50
X[1] = 0.0185 (-0.0022) (0.0008)		
SIMULATOR VAPOR (34.0°C)	0.018	10:51
X[1] = 0.0189 (-0.0013) (0.0007)		
SIMULATOR VAPOR (33.9°C)	0.018	10:52
X[1] = 0.0188 (-0.0012) (-0.0003)		
BLANK TEST	0.000	10:53

Avg = .018
Std dev = .0004



03/26/2008 11:00

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

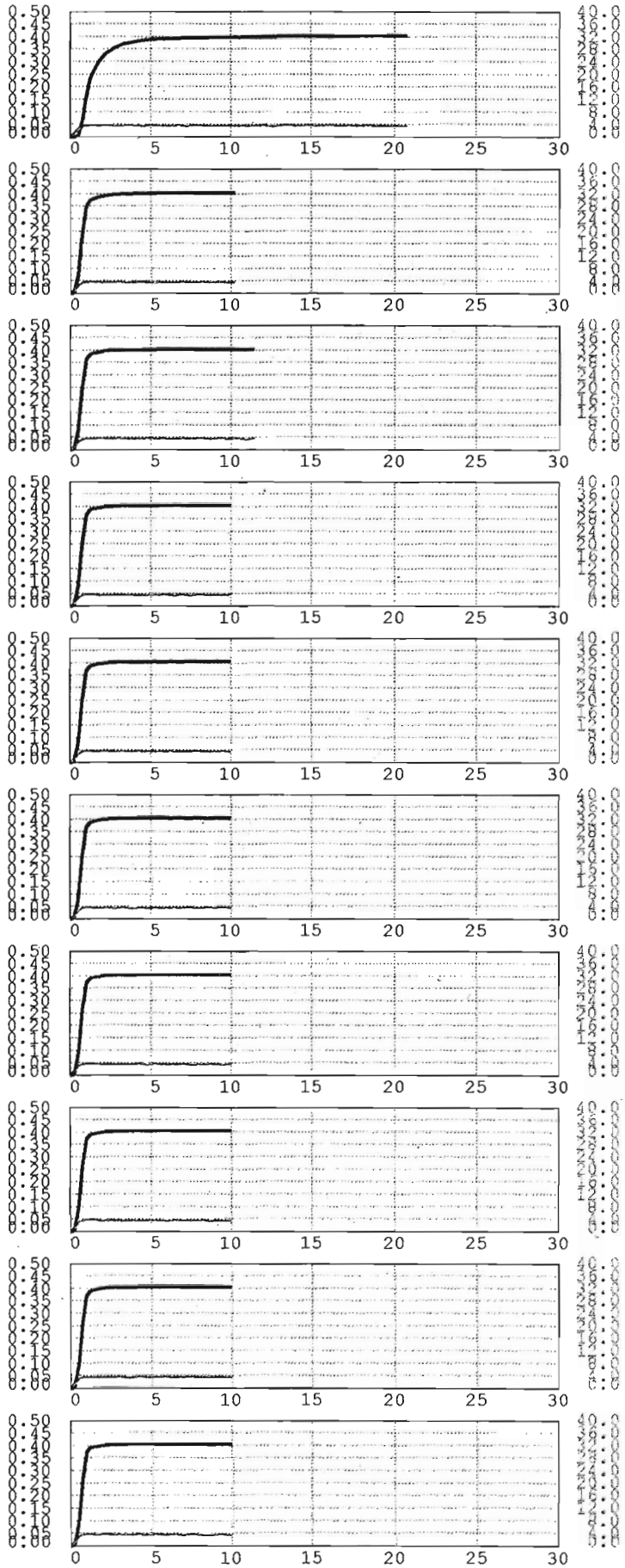
Date: 03/26/2008
Time: 11:05:30

SUPERVISOR NAME: RJD LINEARITY

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	11:06
INTERNAL STANDARD		PASSED	11:06
Xq = 0.1456	(0.318)		
SIMULATOR VAPOR (33.8°C)		0.402	11:07
X[1] = 0.4025	(-0.0003)	(0.0095)	
SIMULATOR VAPOR (33.7°C)		0.403	11:08
X[1] = 0.4033	(0.0014)	(0.0084)	
SIMULATOR VAPOR (33.7°C)		0.403	11:09
X[1] = 0.4038	(0.0006)	(0.0070)	
SIMULATOR VAPOR (33.8°C)		0.404	11:10
X[1] = 0.4049	(0.0006)	(0.0087)	
SIMULATOR VAPOR (33.8°C)		0.405	11:11
X[1] = 0.4054	(0.0012)	(0.0085)	
SIMULATOR VAPOR		INTERFERENCE	11:12
X[1] = 0.4049	(-0.0010)	(-0.0595)	
SIMULATOR VAPOR (33.8°C)		0.404	11:13
X[1] = 0.4046	(0.0003)	(0.0087)	
SIMULATOR VAPOR (33.8°C)		0.405	11:14
X[1] = 0.4054	(0.0001)	(0.0120)	
SIMULATOR VAPOR (33.8°C)		0.404	11:15
X[1] = 0.4048	(0.0008)	(0.0089)	
SIMULATOR VAPOR (33.8°C)		0.405	11:16
X[1] = 0.4051	(0.0007)	(0.0089)	
BLANK TEST		0.000	11:16

Avg = .4049
Std dev = .0009



03/26/2008 11:18

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

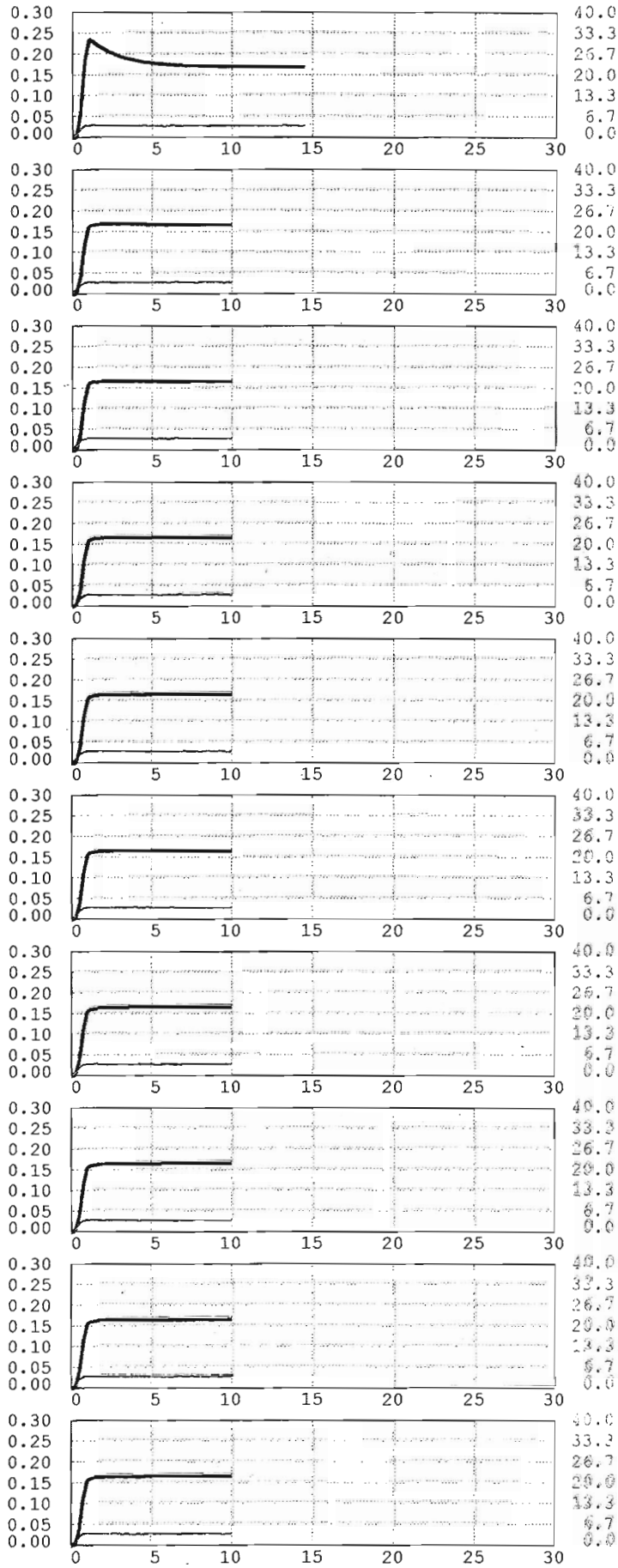
Date: 03/26/2008
Time: 11:29:01

SUPERVISOR NAME: RJD LINEARITY

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	11:29
INTERNAL STANDARD		PASSED	11:30
Xq = 0.1464 (0.24%)			
SIMULATOR VAPOR (33.7°C)		0.168	11:30
X[1] = 0.1689	(-0.0011)	(0.0038)	
SIMULATOR VAPOR	INTERFERENCE		11:31
X[1] = 0.1673	(-0.0008)	(0.0100)	
SIMULATOR VAPOR (33.7°C)		0.166	11:32
X[1] = 0.1668	(0.0006)	(-0.0031)	
SIMULATOR VAPOR (33.7°C)		0.166	11:33
X[1] = 0.1666	(-0.0010)	(0.0034)	
SIMULATOR VAPOR (33.7°C)		0.166	11:34
X[1] = 0.1664	(-0.0008)	(0.0048)	
SIMULATOR VAPOR (33.7°C)		0.166	11:35
X[1] = 0.1669	(-0.0009)	(0.0043)	
SIMULATOR VAPOR (33.6°C)		0.165	11:36
X[1] = 0.1658	(-0.0014)	(0.0022)	
SIMULATOR VAPOR (33.7°C)		0.165	11:37
X[1] = 0.1658	(-0.0017)	(0.0021)	
SIMULATOR VAPOR	INTERFERENCE		11:38
X[1] = 0.1661	(-0.0015)	(0.0198)	
SIMULATOR VAPOR (33.7°C)		0.166	11:39
X[1] = 0.1664	(-0.0015)	(0.0074)	
BLANK TEST		0.000	11:40

Avg = .166
Std dev = .0009



03/26/2008 11:41

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

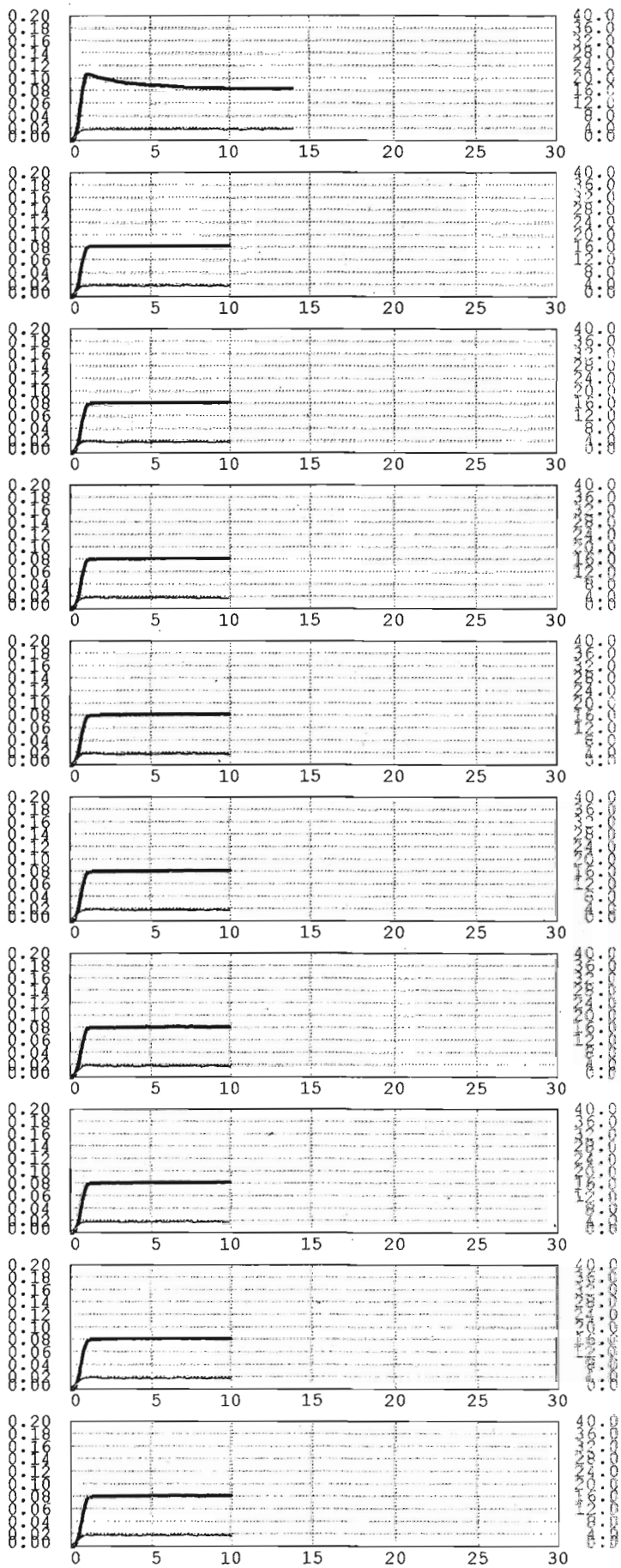
Date: 03/26/2008
Time: 12:07:10

SUPERVISOR NAME: RJD LINEARITY

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	12:08
INTERNAL STANDARD	PASSED	12:08
Xq = 0.1468 (0.498)		
SIMULATOR VAPOR	INTERFERENCE	12:08
X[1] = 0.0831 (-0.0004) (0.0406)		
SIMULATOR VAPOR	INTERFERENCE	12:09
X[1] = 0.0827 (-0.0005) (-0.0271)		
SIMULATOR VAPOR	INTERFERENCE	12:10
X[1] = 0.0826 (-0.0011) (-0.0228)		
SIMULATOR VAPOR (33.7°C)	0.082	12:11
X[1] = 0.0822 (-0.0012) (0.0025)		
SIMULATOR VAPOR	INTERFERENCE	12:12
X[1] = 0.0824 (-0.0007) (-0.0426)		
SIMULATOR VAPOR (33.7°C)	0.081	12:13
X[1] = 0.0819 (-0.0014) (0.0023)		
SIMULATOR VAPOR (33.7°C)	0.082	12:14
X[1] = 0.0821 (-0.0013) (0.0022)		
SIMULATOR VAPOR	INTERFERENCE	12:15
X[1] = 0.0823 (-0.0009) (0.0083)		
SIMULATOR VAPOR (33.7°C)	0.082	12:16
X[1] = 0.0824 (-0.0010) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	12:17
X[1] = 0.0818 (-0.0016) (-0.0498)		
BLANK TEST	0.000	12:18

Average = .082
Std dev = .0003



03/26/2008 12:19

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date: 03/14/2008
Installation Date: 03/14/2008
Test Date: 04/03/2008
Time: 13:49

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 49.03°C
Breath Tube    = 45.15°C
Digital Sim    = 33.7°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.61 V
Bias Voltage   = 80.9 V
Chopper Freq   = 539.7 Hz

PUMP INFO
Flow Rate = 4.575 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0337   0.0374
MIN(V)   0.0319   0.0356

FILTER INFO
Filter 1  0.035  Zero = true
Filter 2  0.508  Zero = true
Filter 3  0.035  Zero = true

INTERNAL STANDARD
Xq = 0.1454  0.43%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

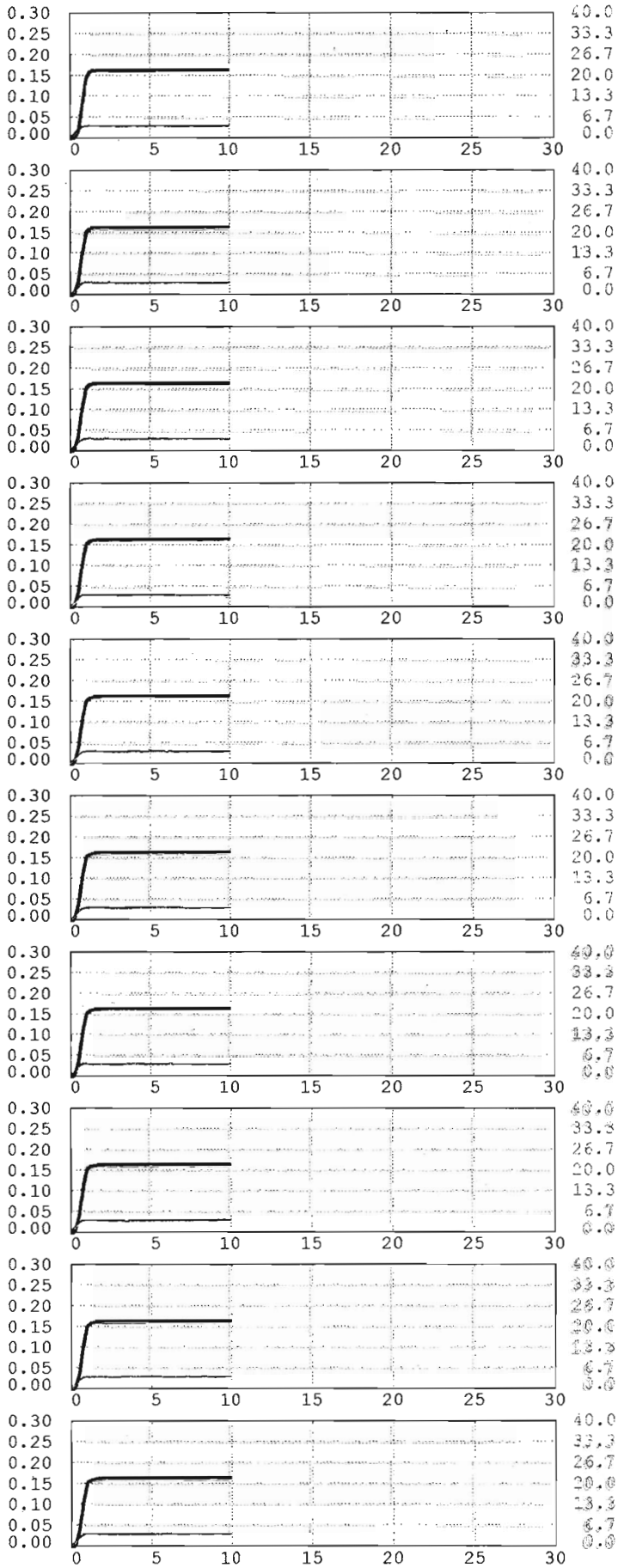
Date: 04/03/2008
Time: 14:14:48

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	14:15
INTERNAL STANDARD		PASSED	14:15
Xq = 0.1458	(0.198)		
SIMULATOR VAPOR (33.7°C)		0.163	14:16
X[1] = 0.1630	(-0.0011)	(0.0013)	
SIMULATOR VAPOR (33.7°C)		0.162	14:17
X[1] = 0.1629	(-0.0014)	(0.0010)	
SIMULATOR VAPOR (33.7°C)		0.164	14:18
X[1] = 0.1640	(-0.0007)	(0.0004)	
SIMULATOR VAPOR (33.7°C)		0.164	14:19
X[1] = 0.1641	(-0.0008)	(0.0012)	
SIMULATOR VAPOR (33.7°C)		0.163	14:20
X[1] = 0.1639	(-0.0012)	(0.0013)	
SIMULATOR VAPOR (33.7°C)		0.164	14:21
X[1] = 0.1643	(-0.0010)	(0.0008)	
SIMULATOR VAPOR (33.6°C)		0.164	14:22
X[1] = 0.1640	(-0.0017)	(0.0010)	
SIMULATOR VAPOR (33.7°C)		0.164	14:23
X[1] = 0.1644	(-0.0018)	(0.0014)	
SIMULATOR VAPOR (33.6°C)		0.163	14:24
X[1] = 0.1637	(-0.0013)	(0.0015)	
SIMULATOR VAPOR (33.7°C)		0.164	14:25
X[1] = 0.1640	(-0.0017)	(0.0016)	
BLANK TEST		0.000	14:25

Average = 0.1635
Std Dev = 0.0007



04/03/2008 14:36

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

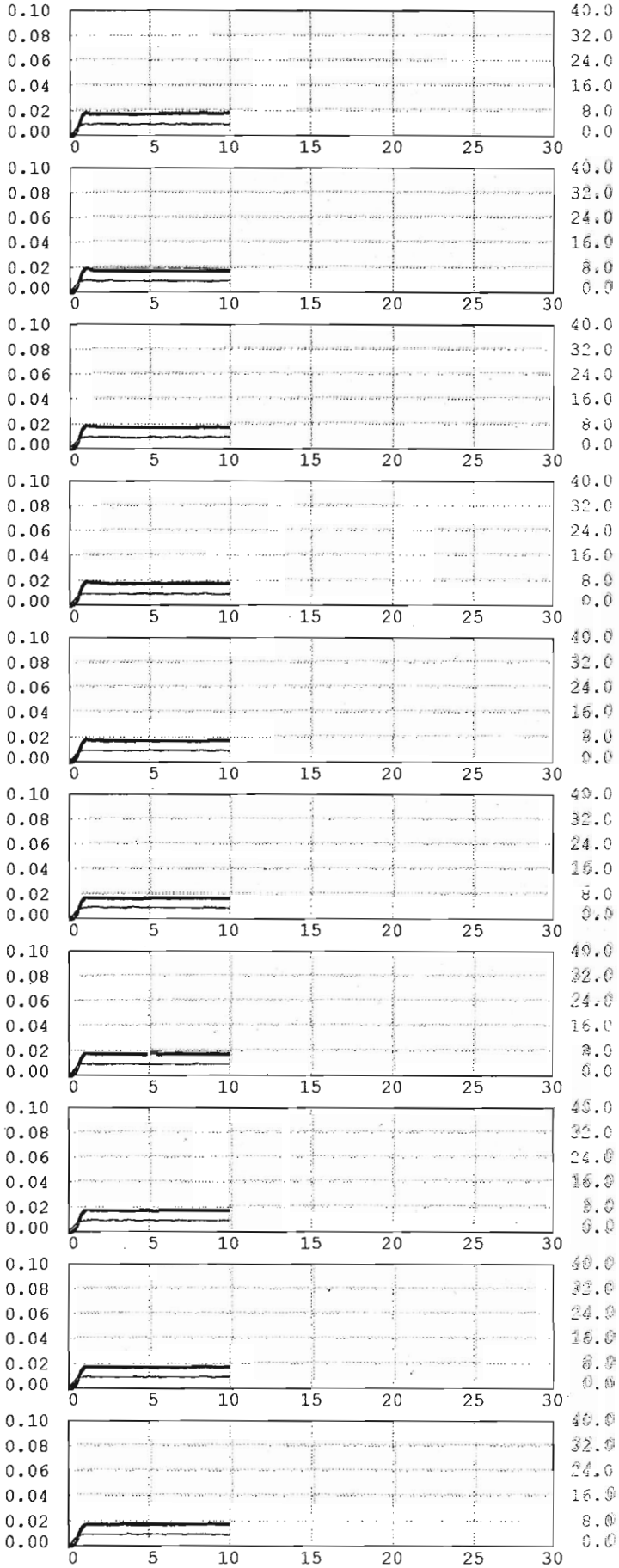
Date: 04/03/2008
Time: 14:41:31

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	14:42
INTERNAL STANDARD	PASSED	14:42
Xq = 0.1468 (0.55%)		
SIMULATOR VAPOR (33.9°C)	0.018	14:42
X[1] = 0.0189 (-0.0013) (0.0010)		
SIMULATOR VAPOR (33.9°C)	0.018	14:43
X[1] = 0.0187 (-0.0014) (0.0007)		
SIMULATOR VAPOR (34.0°C)	0.018	14:44
X[1] = 0.0187 (-0.0014) (0.0007)		
SIMULATOR VAPOR (33.9°C)	0.018	14:45
X[1] = 0.0189 (-0.0014) (0.0007)		
SIMULATOR VAPOR (33.9°C)	0.018	14:46
X[1] = 0.0184 (-0.0024) (0.0003)		
SIMULATOR VAPOR (34.0°C)	0.018	14:47
X[1] = 0.0180 (-0.0026) (0.0001)		
SIMULATOR VAPOR (33.9°C)	0.018	14:48
X[1] = 0.0187 (-0.0015) (0.0001)		
SIMULATOR VAPOR (33.9°C)	0.018	14:49
X[1] = 0.0184 (-0.0021) (0.0004)		
SIMULATOR VAPOR (33.9°C)	0.018	14:50
X[1] = 0.0186 (-0.0014) (0.0009)		
SIMULATOR VAPOR (33.9°C)	0.018	14:51
X[1] = 0.0184 (-0.0018) (0.0008)		
BLANK TEST	0.000	14:52

Average = 0.0180
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

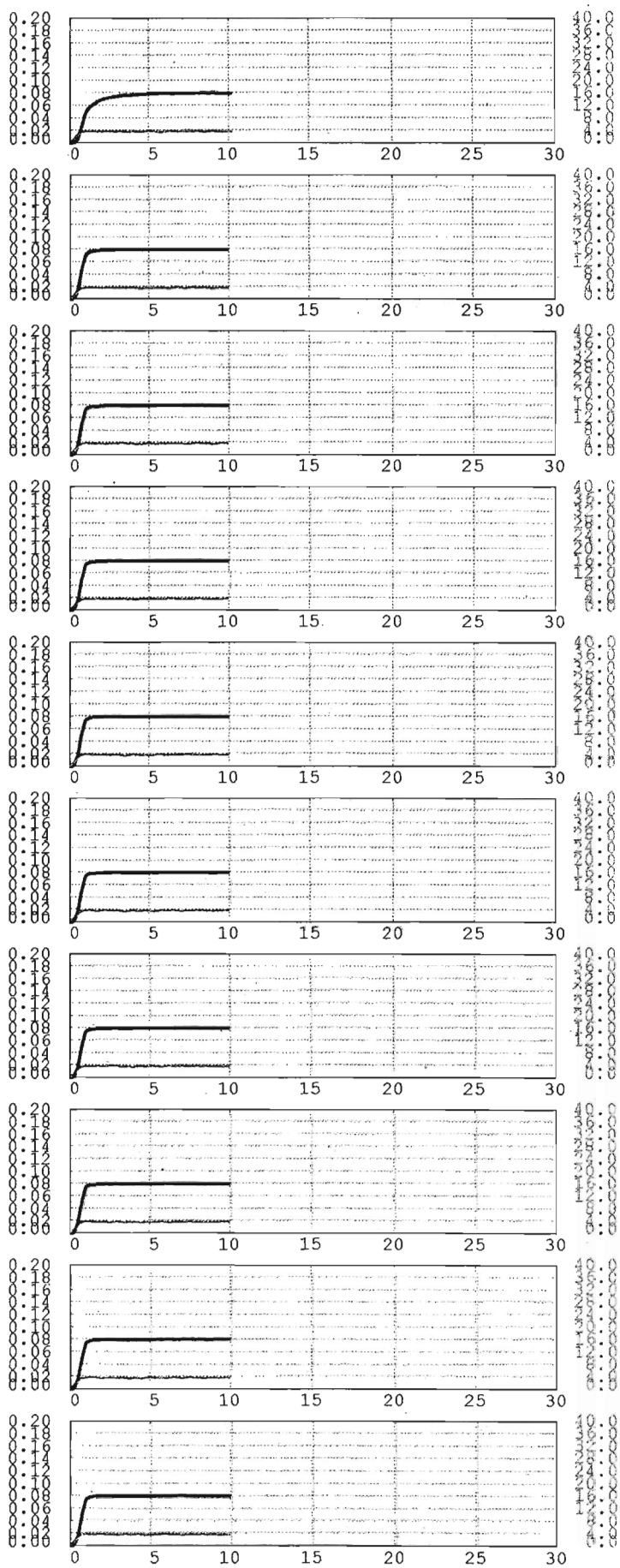
Date: 04/03/2008
Time: 15:02:09

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	15:03
INTERNAL STANDARD		PASSED	15:03
Xq = 0.1467 (0.43%)			
SIMULATOR VAPOR (33.6°C)		0.080	15:03
X[1] = 0.0808	(-0.0010)	(0.0035)	
SIMULATOR VAPOR (33.6°C)		0.080	15:04
X[1] = 0.0808	(-0.0009)	(0.0022)	
SIMULATOR VAPOR (33.6°C)		0.080	15:05
X[1] = 0.0806	(-0.0018)	(0.0015)	
SIMULATOR VAPOR (33.6°C)		0.080	15:06
X[1] = 0.0807	(-0.0022)	(0.0021)	
SIMULATOR VAPOR (33.7°C)		0.080	15:07
X[1] = 0.0805	(-0.0021)	(0.0017)	
SIMULATOR VAPOR (33.6°C)		0.080	15:08
X[1] = 0.0805	(-0.0025)	(0.0026)	
SIMULATOR VAPOR (33.6°C)		0.080	15:09
X[1] = 0.0805	(-0.0017)	(0.0022)	
SIMULATOR VAPOR (33.6°C)		0.080	15:10
X[1] = 0.0806	(-0.0021)	(0.0019)	
SIMULATOR VAPOR (33.6°C)		0.080	15:11
X[1] = 0.0809	(-0.0019)	(0.0024)	
SIMULATOR VAPOR (33.7°C)		0.080	15:12
X[1] = 0.0809	(-0.0017)	(0.0015)	
BLANK TEST		0.000	15:13

Average = 0.0800
Std Dev = 0.0000



04/03/2008 15:18

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

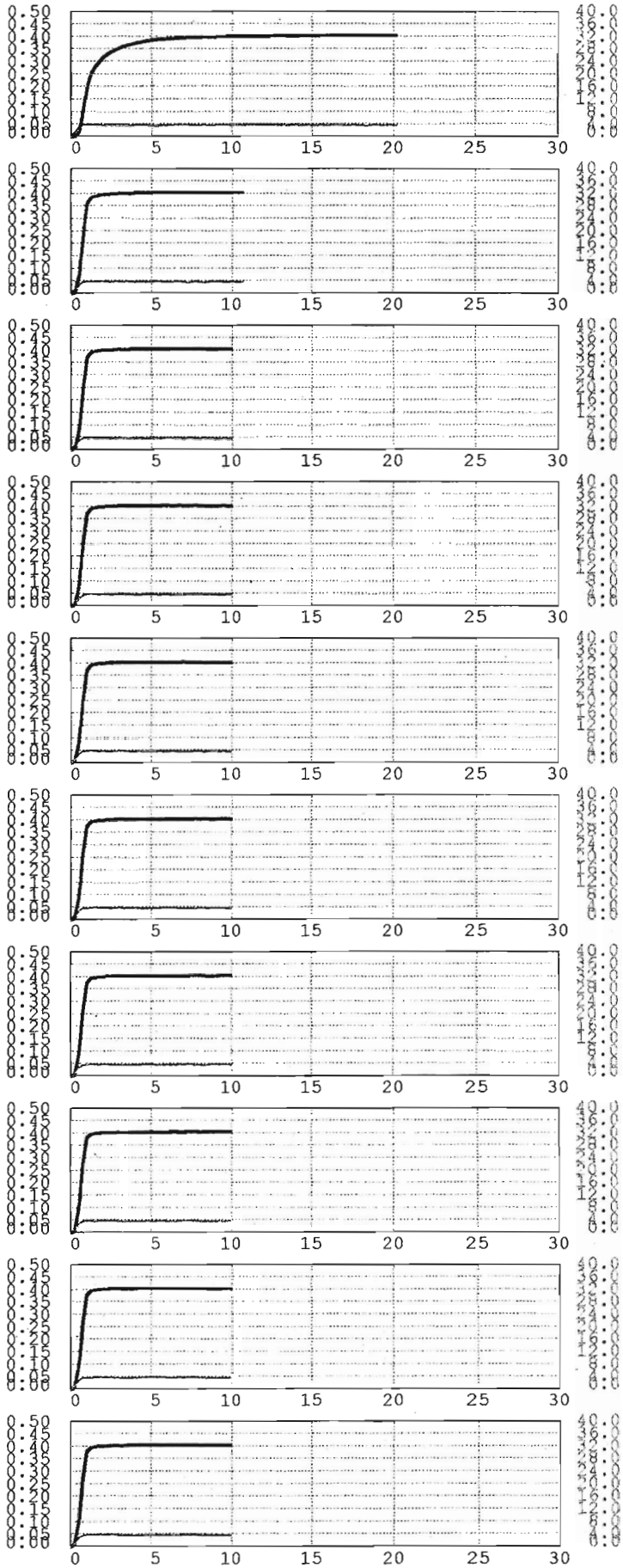
Date: 04/03/2008
Time: 15:23:14

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	15:24
INTERNAL STANDARD	PASSED	15:24
Xq = 0.1461 (0.068)		
SIMULATOR VAPOR (33.7°C)	0.402	15:24
X[1] = 0.4026 (0.0013) (0.0127)		
SIMULATOR VAPOR (33.7°C)	0.402	15:25
X[1] = 0.4026 (0.0005) (0.0112)		
SIMULATOR VAPOR (33.7°C)	0.403	15:26
X[1] = 0.4032 (0.0015) (0.0116)		
SIMULATOR VAPOR (33.8°C)	0.401	15:27
X[1] = 0.4018 (0.0006) (0.0116)		
SIMULATOR VAPOR (33.7°C)	0.401	15:28
X[1] = 0.4015 (-0.0002) (0.0105)		
SIMULATOR VAPOR (33.8°C)	0.401	15:29
X[1] = 0.4017 (0.0004) (0.0114)		
SIMULATOR VAPOR (33.8°C)	0.402	15:30
X[1] = 0.4024 (-0.0003) (0.0107)		
SIMULATOR VAPOR (33.7°C)	0.402	15:31
X[1] = 0.4026 (0.0000) (0.0117)		
SIMULATOR VAPOR (33.8°C)	0.402	15:32
X[1] = 0.4024 (0.0007) (0.0115)		
SIMULATOR VAPOR (33.8°C)	0.403	15:33
X[1] = 0.4031 (0.0003) (0.0116)		
BLANK TEST	0.000	15:34

Average = 0.4019
Std Dev = 0.0007



Section 5: Interference

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date: 03/14/2008
Installation Date: 03/14/2008
Test Date: 04/10/2008
Time: 08:13

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.68°C
Breath Tube    = 47.48°C
Digital Sim    = 0.0°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.60 V
Bias Voltage   = 81.0 V
Chopper Freq   = 546.1 Hz

PUMP INFO
Flow Rate = 4.426 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0291   0.0313
MIN(V)   0.0270   0.0293

FILTER INFO
Filter 1  0.029  Zero = true
Filter 2  0.510  Zero = true
Filter 3  0.029  Zero = true

INTERNAL STANDARD
Xq = 0.1459  0.12%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

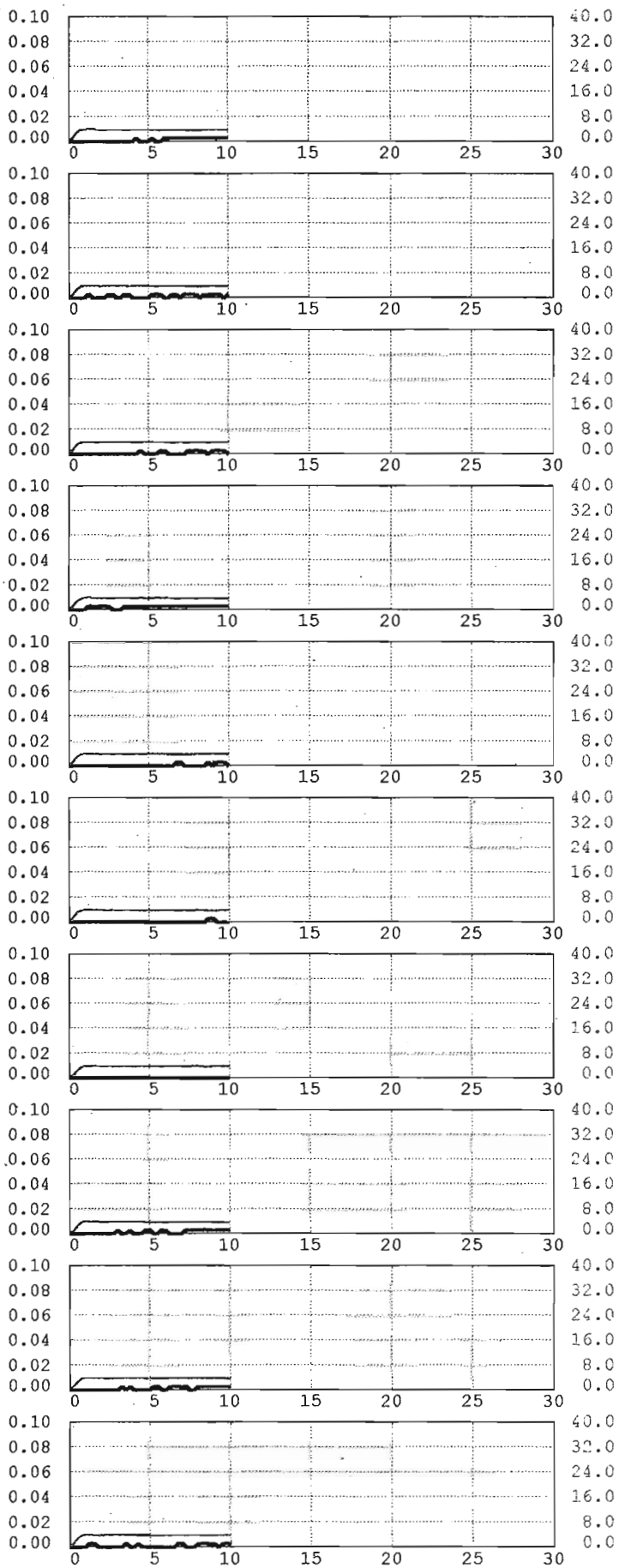
DataMaster DMT: 121506

Date: 04/10/2008
Time: 10:01:15

SUPERVISOR NAME: ALB .01 ACETONE IN H2O

SOLUTION LOT #: ~~09-07-010~~ 09-20-070-01A
SOLUTION CONCENTRATION: 0.010

BLANK TEST		0.000	10:02
INTERNAL STANDARD		PASSED	10:02
Xq = 0.1463 (0.18%)			
SIMULATOR VAPOR		INTERFERENCE	10:02
X[1] = 0.0039	(-0.0062)	(0.0010)	
SIMULATOR VAPOR		INTERFERENCE	10:03
X[1] = 0.0039	(-0.0064)	(0.0011)	
SIMULATOR VAPOR		INTERFERENCE	10:04
X[1] = 0.0037	(-0.0062)	(0.0005)	
SIMULATOR VAPOR		INTERFERENCE	10:05
X[1] = 0.0043	(-0.0064)	(0.0009)	
SIMULATOR VAPOR		INTERFERENCE	10:06
X[1] = 0.0040	(-0.0064)	(0.0008)	
SIMULATOR VAPOR		INTERFERENCE	10:07
X[1] = 0.0040	(-0.0063)	(0.0010)	
SIMULATOR VAPOR		INTERFERENCE	10:08
X[1] = 0.0038	(-0.0062)	(0.0004)	
SIMULATOR VAPOR		INTERFERENCE	10:09
X[1] = 0.0039	(-0.0064)	(0.0006)	
SIMULATOR VAPOR		INTERFERENCE	10:10
X[1] = 0.0040	(-0.0063)	(0.0004)	
SIMULATOR VAPOR		INTERFERENCE	10:11
X[1] = 0.0035	(-0.0064)	(0.0004)	
BLANK TEST		0.000	10:12



04/10/2008 10:24

ACCURACY AND PRECISION TEST

STATE OF VERMONT

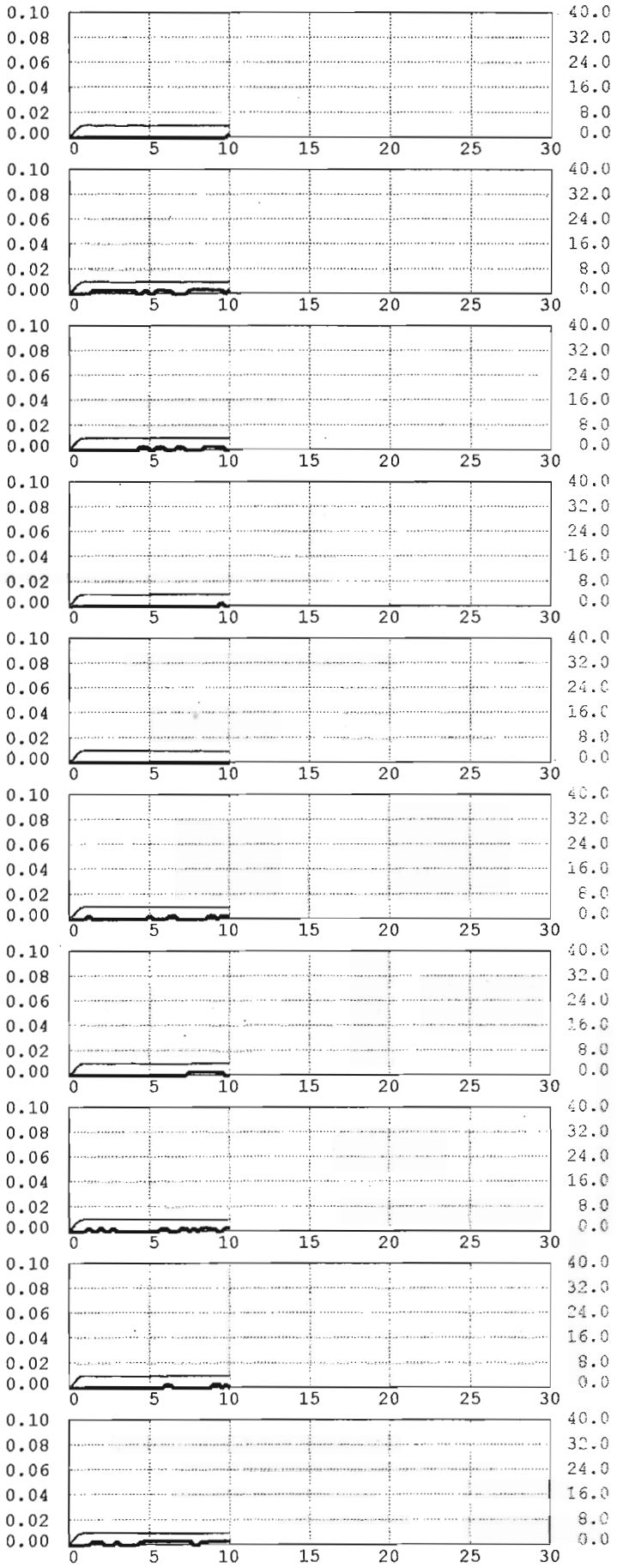
DataMaster DMT: 121506

Date: 04/10/2008
Time: 10:26:16

SUPERVISOR NAME: DMR 0.01 ACETONE IN H20

SOLUTION LOT #: 09-20-070-01A
SOLUTION CONCENTRATION: 0.010

BLANK TEST	0.000	10:27
INTERNAL STANDARD	PASSED	10:27
Xq = 0.1464 (0.248)		
SIMULATOR VAPOR	INTERFERENCE	10:27
X[1] = 0.0034 (-0.0058) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	10:28
X[1] = 0.0040 (-0.0062) (0.0004)		
SIMULATOR VAPOR	INTERFERENCE	10:29
X[1] = 0.0037 (-0.0063) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	10:30
X[1] = 0.0034 (-0.0072) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	10:31
X[1] = 0.0036 (-0.0072) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	10:32
X[1] = 0.0037 (-0.0068) (0.0004)		
SIMULATOR VAPOR	INTERFERENCE	10:33
X[1] = 0.0037 (-0.0065) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	10:34
X[1] = 0.0037 (-0.0066) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	10:35
X[1] = 0.0035 (-0.0069) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	10:36
X[1] = 0.0038 (-0.0064) (0.0007)		
BLANK TEST	0.000	10:37



04/10/2008 10:45

ACCURACY AND PRECISION TEST

STATE OF VERMONT

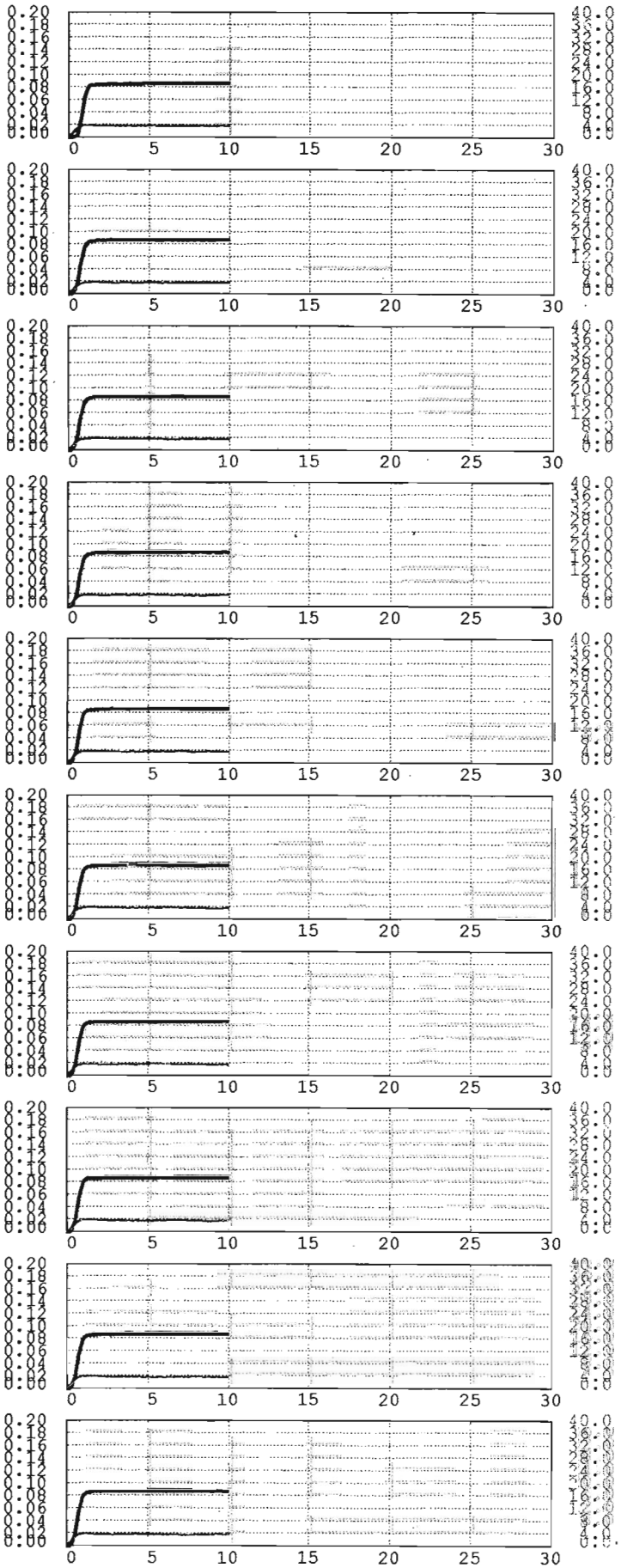
DataMaster DMT: 121506

Date: 04/10/2008
Time: 10:49:06

SUPERVISOR NAME: ALB .01ACETONE .08ETOH

SOLUTION LOT #: 07-09-080A
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	10:50
INTERNAL STANDARD	PASSED	10:50
Xq = 0.1467 (0.43%)		
SIMULATOR VAPOR	INTERFERENCE	10:50
X[1] = 0.0870 (-0.0061) (0.0030)		
SIMULATOR VAPOR	INTERFERENCE	10:51
X[1] = 0.0878 (-0.0063) (0.0025)		
SIMULATOR VAPOR	INTERFERENCE	10:52
X[1] = 0.0872 (-0.0074) (0.0026)		
SIMULATOR VAPOR	INTERFERENCE	10:53
X[1] = 0.0877 (-0.0065) (0.0024)		
SIMULATOR VAPOR	INTERFERENCE	10:54
X[1] = 0.0875 (-0.0072) (0.0024)		
SIMULATOR VAPOR	INTERFERENCE	10:55
X[1] = 0.0876 (-0.0073) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	10:56
X[1] = 0.0877 (-0.0071) (0.0023)		
SIMULATOR VAPOR	INTERFERENCE	10:57
X[1] = 0.0872 (-0.0064) (0.0028)		
SIMULATOR VAPOR	INTERFERENCE	10:58
X[1] = 0.0874 (-0.0072) (0.0024)		
SIMULATOR VAPOR	INTERFERENCE	10:59
X[1] = 0.0875 (-0.0076) (0.0020)		
BLANK TEST	0.000	11:00



04/10/2008 11:13

ACCURACY AND PRECISION TEST

STATE OF VERMONT

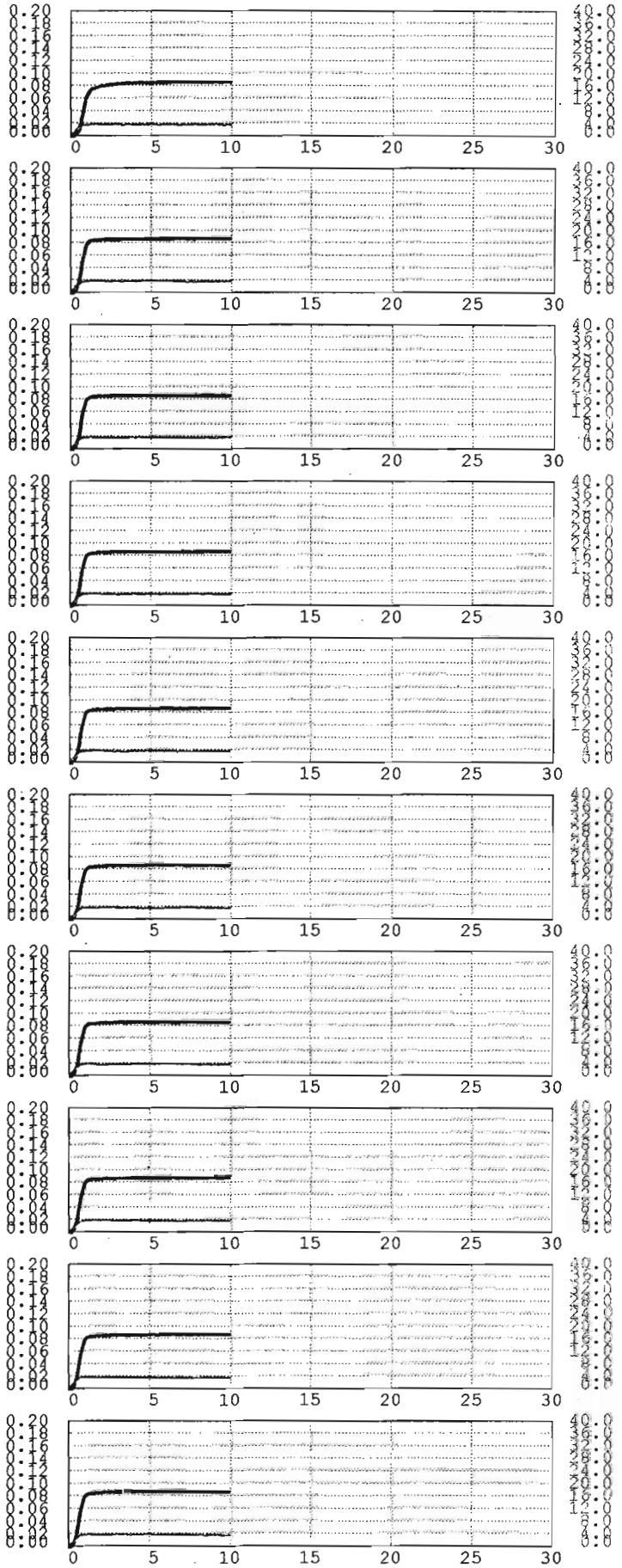
DataMaster DMT: 121506

Date: 04/10/2008
Time: 11:41:23

SUPERVISOR NAME: HXB .01 ACETONE IN .08ETOH

SOLUTION LOT #: 07-09-080A
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	11:42
INTERNAL STANDARD	PASSED	11:42
Xq = 0.1463 (0.18%)		
SIMULATOR VAPOR	INTERFERENCE	11:42
X[1] = 0.0872 (-0.0066) (0.0031)		
SIMULATOR VAPOR	INTERFERENCE	11:43
X[1] = 0.0877 (-0.0067) (0.0025)		
SIMULATOR VAPOR	INTERFERENCE	11:44
X[1] = 0.0871 (-0.0066) (0.0024)		
SIMULATOR VAPOR	INTERFERENCE	11:45
X[1] = 0.0874 (-0.0073) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	11:46
X[1] = 0.0875 (-0.0073) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	11:47
X[1] = 0.0876 (-0.0072) (0.0024)		
SIMULATOR VAPOR	INTERFERENCE	11:48
X[1] = 0.0872 (-0.0072) (0.0020)		
SIMULATOR VAPOR	INTERFERENCE	11:49
X[1] = 0.0881 (-0.0067) (0.0019)		
SIMULATOR VAPOR	INTERFERENCE	11:50
X[1] = 0.0875 (-0.0068) (0.0020)		
SIMULATOR VAPOR	INTERFERENCE	11:51
X[1] = 0.0877 (-0.0061) (0.0015)		
BLANK TEST	0.000	11:52



ACCURACY AND PRECISION TEST

STATE OF VERMONT

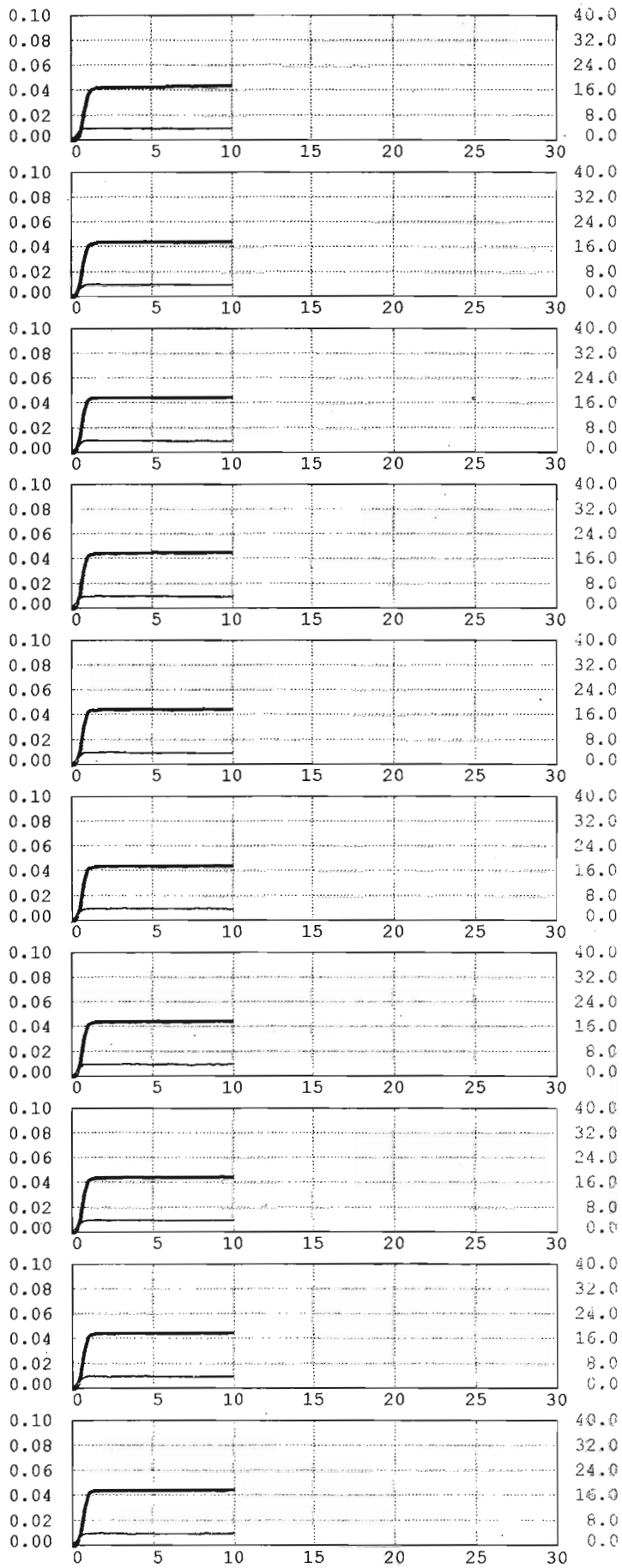
DataMaster DMT: 121506

Date: 04/10/2008
Time: 12:02:07

SUPERVISOR NAME: ALB .01 ACETONE IN .04ETOH

SOLUTION LOT #: 07-14-04~~0~~A
SOLUTION CONCENTRATION: 0.040

BLANK TEST		0.000	12:03
INTERNAL STANDARD		PASSED	12:03
Xq = 0.1463 (0.18%)			
SIMULATOR VAPOR	INTERFERENCE		12:03
X[1] = 0.0444 (-0.0061) (0.0021)			
SIMULATOR VAPOR	INTERFERENCE		12:04
X[1] = 0.0449 (-0.0060) (0.0017)			
SIMULATOR VAPOR	INTERFERENCE		12:05
X[1] = 0.0454 (-0.0058) (0.0014)			
SIMULATOR VAPOR	INTERFERENCE		12:06
X[1] = 0.0456 (-0.0062) (0.0015)			
SIMULATOR VAPOR	INTERFERENCE		12:07
X[1] = 0.0451 (-0.0064) (0.0023)			
SIMULATOR VAPOR	INTERFERENCE		12:08
X[1] = 0.0448 (-0.0063) (0.0009)			
SIMULATOR VAPOR	INTERFERENCE		12:09
X[1] = 0.0452 (-0.0063) (0.0010)			
SIMULATOR VAPOR	INTERFERENCE		12:10
X[1] = 0.0453 (-0.0064) (0.0016)			
SIMULATOR VAPOR	INTERFERENCE		12:11
X[1] = 0.0454 (-0.0063) (0.0013)			
SIMULATOR VAPOR	INTERFERENCE		12:12
X[1] = 0.0453 (-0.0065) (0.0016)			
BLANK TEST		0.000	12:13



04/10/2008 13:40

ACCURACY AND PRECISION TEST

STATE OF VERMONT

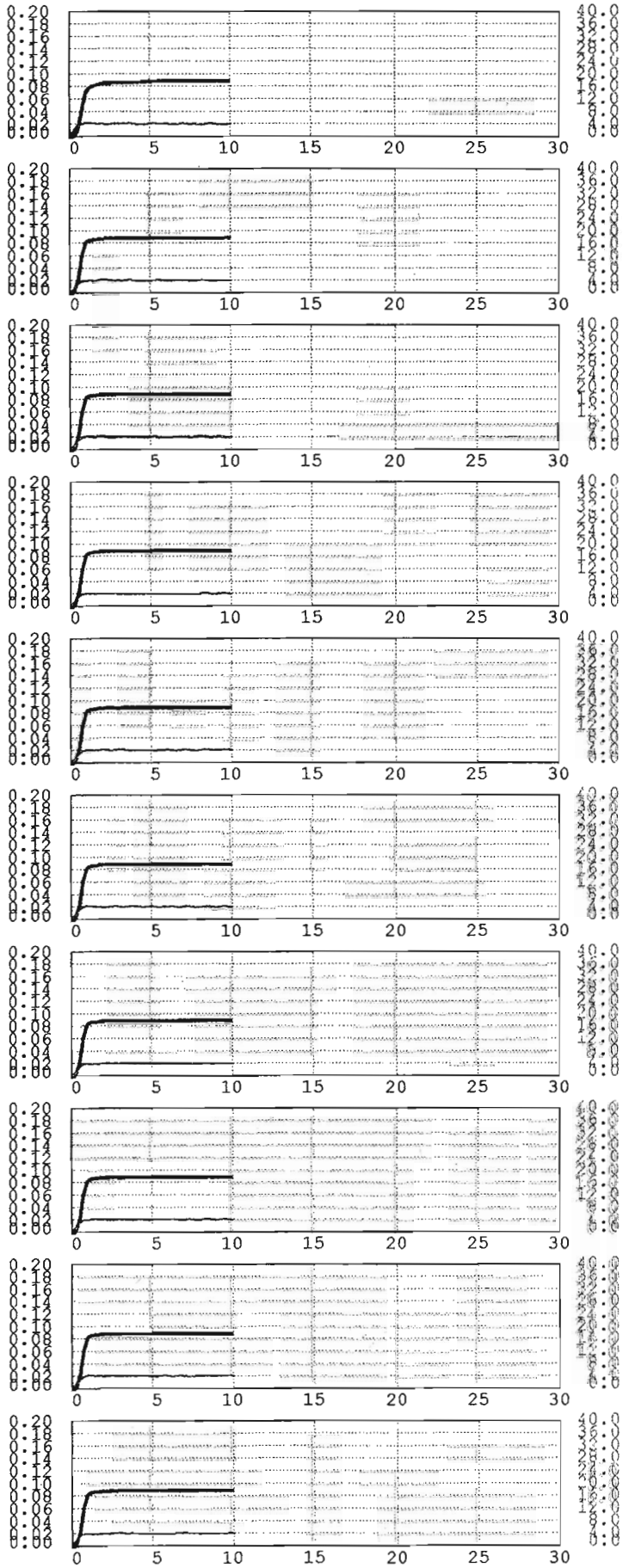
DataMaster DMT: 103206

Date: 4/10/2008
Time: 13:42:23

SUPERVISOR NAME: DMR 0.01 ACET IN 0.08 ETOH

SOLUTION LOT #: 07-09-080A
SOLUTION CONCENTRATION: 0.010

BLANK TEST	0.000	13:43
INTERNAL STANDARD	PASSED	13:43
Xq = 0.1466 (0.68%)		
SIMULATOR VAPOR (34.2°C)	0.088	13:43
X[1] = 0.0886 (-0.0044) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	13:44
X[1] = 0.0886 (-0.0057) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	13:45
X[1] = 0.0888 (-0.0053) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	13:46
X[1] = 0.0892 (-0.0051) (0.0001)		
SIMULATOR VAPOR	INTERFERENCE	13:47
X[1] = 0.0891 (-0.0054) (0.0003)		
SIMULATOR VAPOR	INTERFERENCE	13:48
X[1] = 0.0891 (-0.0061) (0.0004)		
SIMULATOR VAPOR	INTERFERENCE	13:49
X[1] = 0.0890 (-0.0057) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	13:50
X[1] = 0.0887 (-0.0056) (0.0006)		
SIMULATOR VAPOR	INTERFERENCE	13:51
X[1] = 0.0887 (-0.0055) (0.0005)		
SIMULATOR VAPOR	INTERFERENCE	13:52
X[1] = 0.0889 (-0.0052) (0.0005)		
BLANK TEST	0.000	13:53



04/10/2008 14:00

ACCURACY AND PRECISION TEST

STATE OF VERMONT

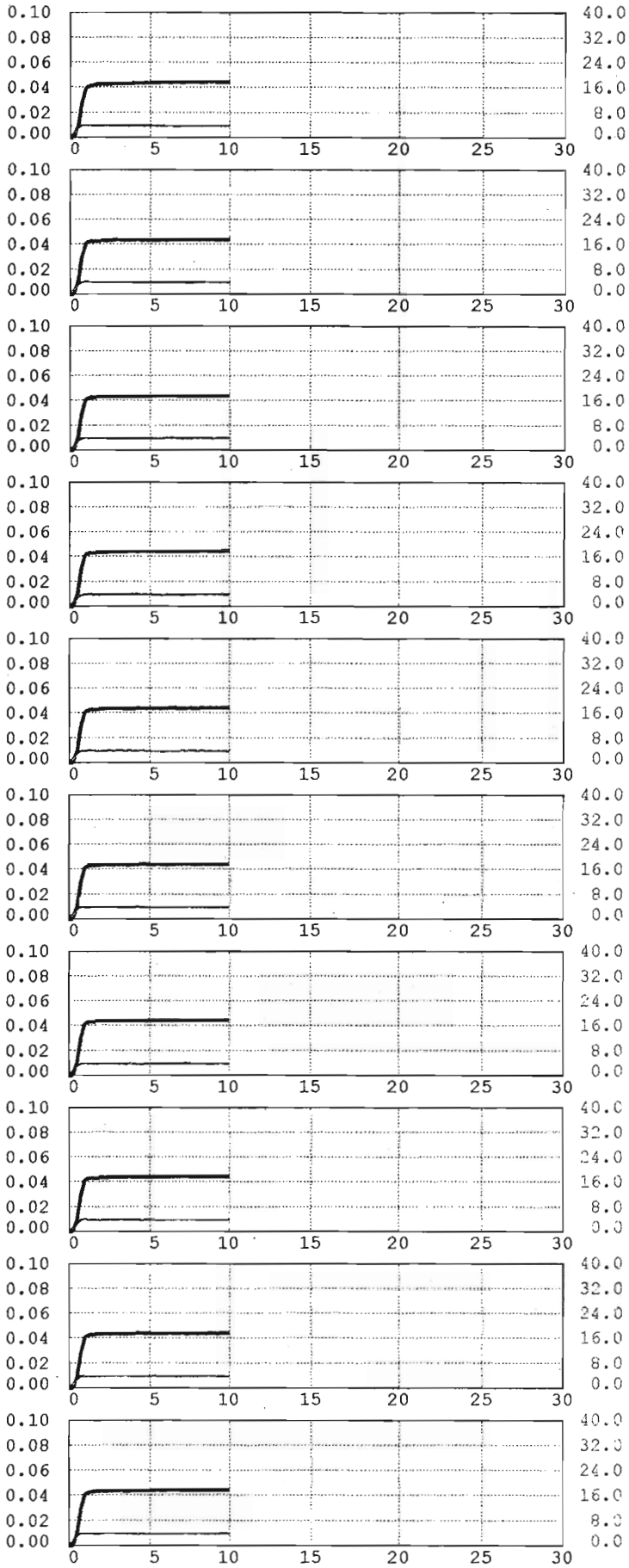
DataMaster DMT: 121506

Date: 04/10/2008
Time: 13:57:19

SUPERVISOR NAME: DMR 0.01 ACET IN 0.04 ETOH

SOLUTION LOT #: 07-14-04A
SOLUTION CONCENTRATION: 0.010

BLANK TEST	0.000	13:58
INTERNAL STANDARD	PASSED	13:58
Xq = 0.1462 (0.12%)		
SIMULATOR VAPOR	INTERFERENCE	13:58
X[1] = 0.0450 (-0.0069) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	13:59
X[1] = 0.0449 (-0.0066) (0.0015)		
SIMULATOR VAPOR	INTERFERENCE	14:00
X[1] = 0.0446 (-0.0065) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	14:01
X[1] = 0.0454 (-0.0065) (0.0006)		
SIMULATOR VAPOR	INTERFERENCE	14:02
X[1] = 0.0452 (-0.0074) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	14:03
X[1] = 0.0452 (-0.0070) (0.0012)		
SIMULATOR VAPOR	INTERFERENCE	14:04
X[1] = 0.0455 (-0.0067) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	14:05
X[1] = 0.0453 (-0.0064) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	14:06
X[1] = 0.0451 (-0.0064) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	14:07
X[1] = 0.0452 (-0.0073) (0.0013)		
BLANK TEST	0.000	14:08



04/10/2008 14:11

ACCURACY AND PRECISION TEST

STATE OF VERMONT

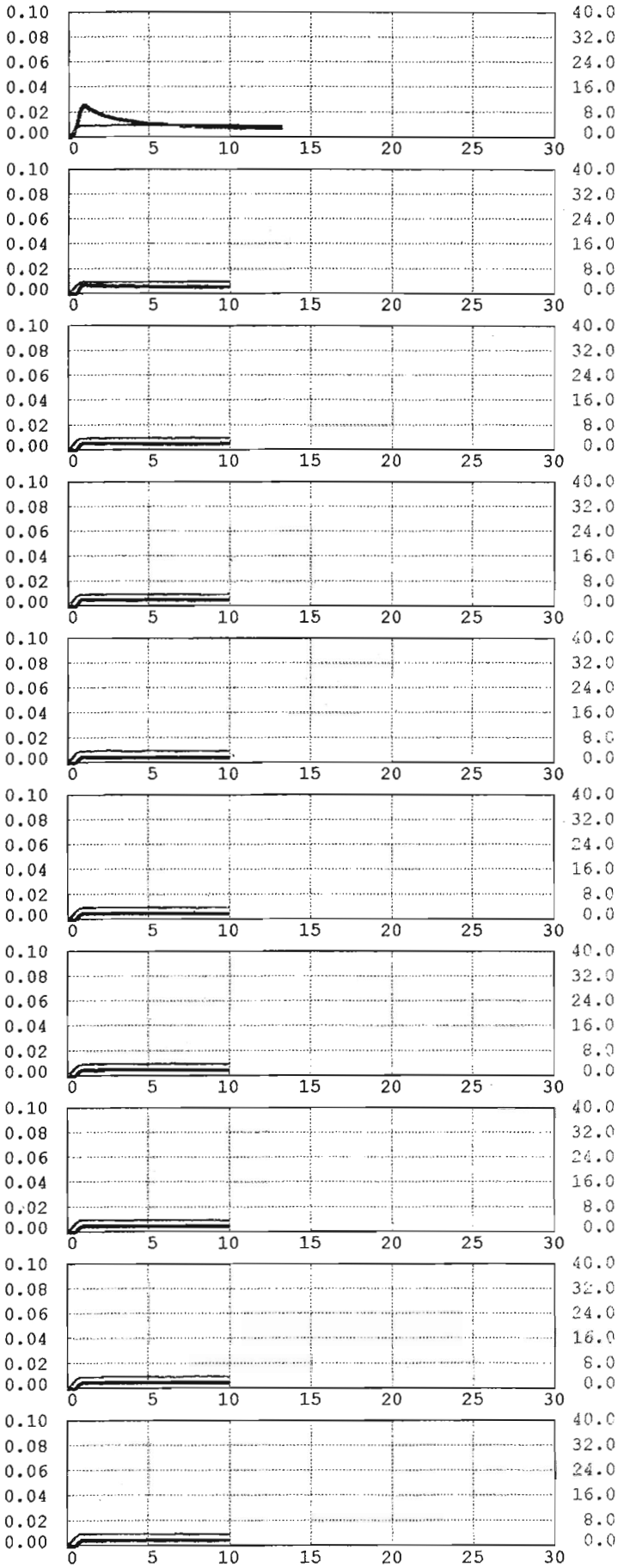
DataMaster DMT: 121506

Date: 04/10/2008
Time: 14:19:24

SUPERVISOR NAME: SEH .02ACETONE

SOLUTION LOT #: ~~00-00-~~000 09-20-070-02A
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	14:20
INTERNAL STANDARD	PASSED	14:20
Xq = 0.1473 (0.868)		
SIMULATOR VAPOR	INTERFERENCE	14:20
X[1] = 0.0084 (-0.0074) (0.0025)		
SIMULATOR VAPOR	INTERFERENCE	14:21
X[1] = 0.0065 (-0.0099) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	14:22
X[1] = 0.0059 (-0.0097) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	14:23
X[1] = 0.0062 (-0.0092) (0.0004)		
SIMULATOR VAPOR	INTERFERENCE	14:25
X[1] = 0.0055 (-0.0088) (0.0006)		
SIMULATOR VAPOR	INTERFERENCE	14:26
X[1] = 0.0058 (-0.0091) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	14:27
X[1] = 0.0057 (-0.0097) (0.0004)		
SIMULATOR VAPOR	INTERFERENCE	14:28
X[1] = 0.0057 (-0.0098) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	14:29
X[1] = 0.0059 (-0.0086) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	14:30
X[1] = 0.0053 (-0.0093) (0.0005)		
BLANK TEST	0.000	14:30



04/10/2008 14:53

ACCURACY AND PRECISION TEST

STATE OF VERMONT

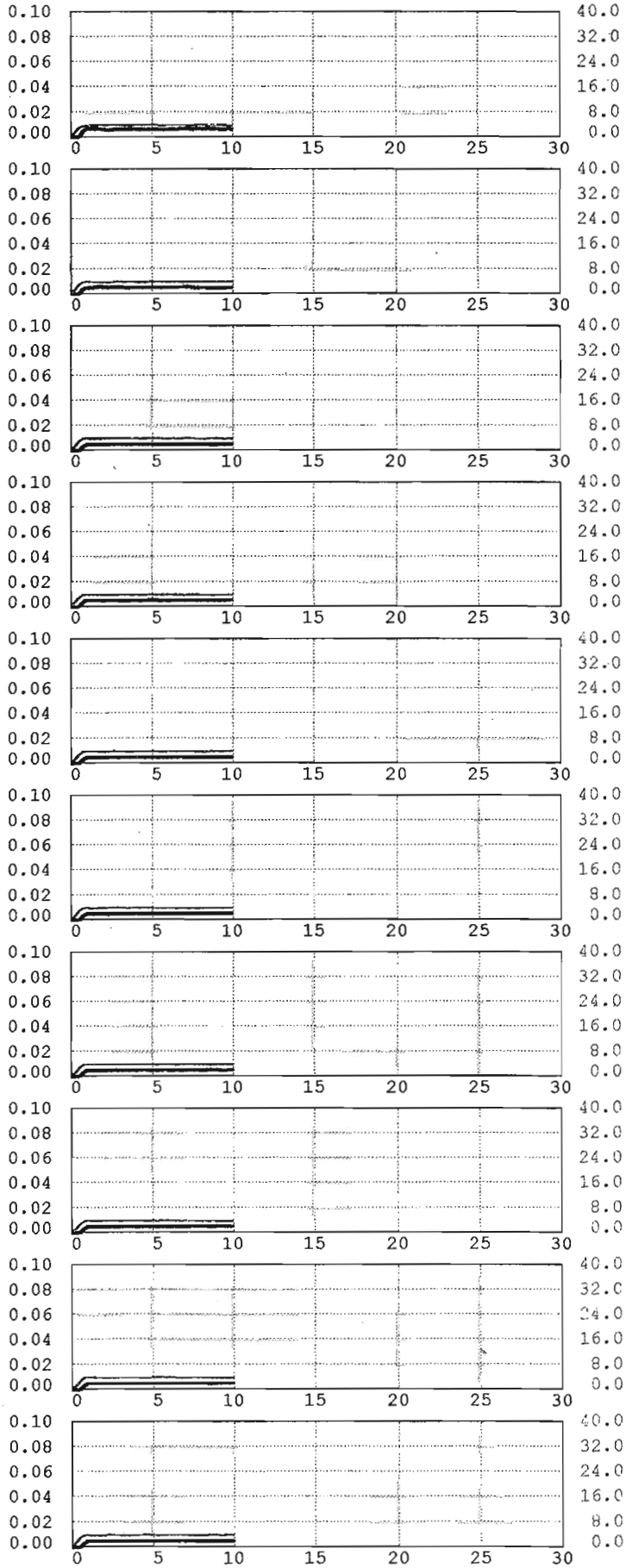
DataMaster DMT: 121506

Date: 04/11/2008
Time: 14:02:28

SUPERVISOR NAME: RJD .02 ACETONE

SOLUTION LOT #: ~~08-07-07~~ 09-20-070-02A
SOLUTION CONCENTRATION: 0.000 ens 1/15/08

BLANK TEST	0.000	14:03
INTERNAL STANDARD	PASSED	14:03
Xq = 0.1471 (0.748)		
SIMULATOR VAPOR	INTERFERENCE	14:03
X[1] = 0.0074 (-0.0075) (0.0027)		
SIMULATOR VAPOR	INTERFERENCE	14:04
X[1] = 0.0064 (-0.0094) (-0.0023)		
SIMULATOR VAPOR	INTERFERENCE	14:05
X[1] = 0.0060 (-0.0089) (0.0003)		
SIMULATOR VAPOR	INTERFERENCE	14:06
X[1] = 0.0066 (-0.0088) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	14:07
X[1] = 0.0061 (-0.0091) (0.0005)		
SIMULATOR VAPOR	INTERFERENCE	14:08
X[1] = 0.0062 (-0.0090) (0.0000)		
SIMULATOR VAPOR	INTERFERENCE	14:09
X[1] = 0.0064 (-0.0090) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	14:10
X[1] = 0.0064 (-0.0091) (0.0010)		
SIMULATOR VAPOR	INTERFERENCE	14:11
X[1] = 0.0062 (-0.0083) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	14:12
X[1] = 0.0062 (-0.0088) (0.0007)		
BLANK TEST	0.000	14:13



04/11/2008 15:02

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date: 03/14/2008
Installation Date: 03/14/2008
Test Date: 04/15/2008
Time: 12:38

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 49.09°C
Breath Tube    = 46.63°C
Digital Sim    = 34.0°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.61 V
Bias Voltage   = 81.0 V
Chopper Freq   = 546.7 Hz

PUMP INFO
Flow Rate = 4.503 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0258   0.0274
MIN(V)   0.0238   0.0262

FILTER INFO
Filter 1  0.026  Zero = true
Filter 2  0.503  Zero = true
Filter 3  0.026  Zero = true

INTERNAL STANDARD
Xq = 0.1461  0.06%
```

04/15/2008 12:39

ACCURACY AND PRECISION TEST

STATE OF VERMONT

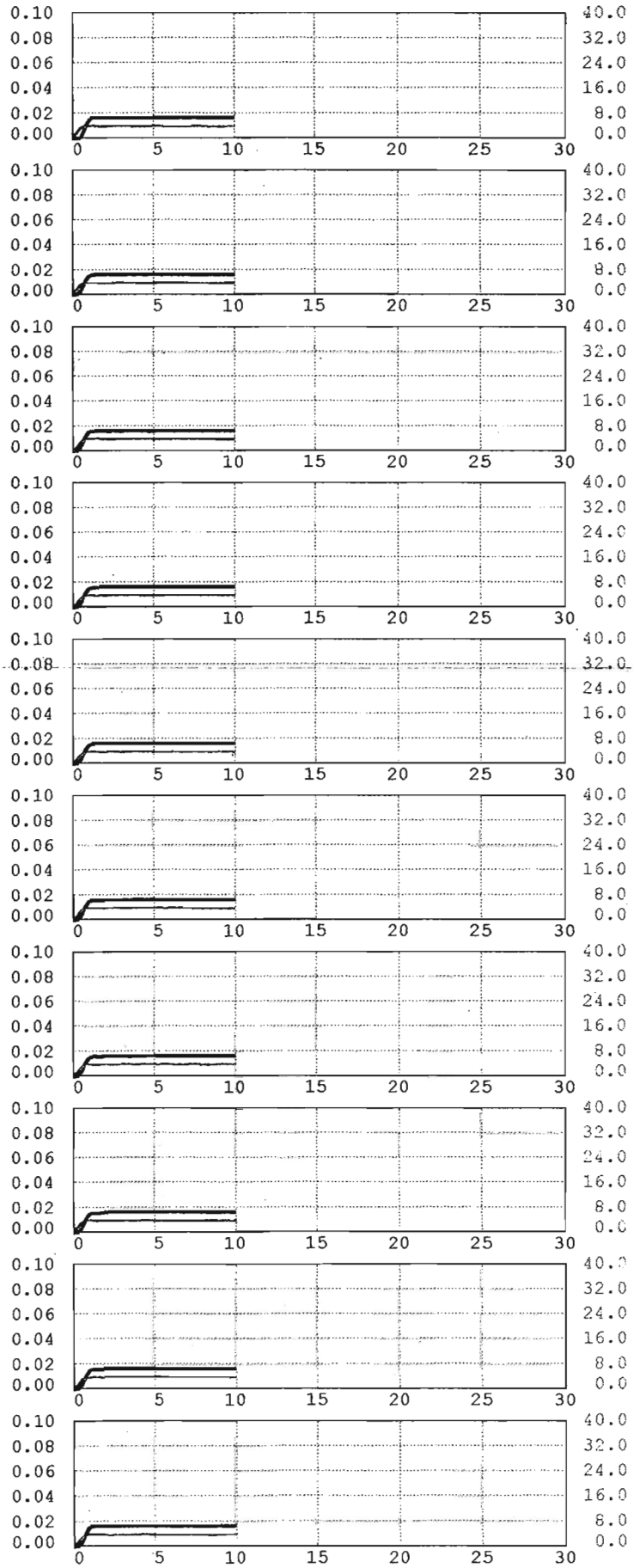
DataMaster DMT: 121506

Date: 04/15/2008
Time: 11:46:16

SUPERVISOR NAME: ALB .04MEOH IN H2O

SOLUTION LOT #: 08-12-040M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	11:47
INTERNAL STANDARD	PASSED	11:47
Xq = 0.1461 (0.06%)		
SIMULATOR VAPOR	INTERFERENCE	11:47
X[1] = 0.0177 (-0.0052) (-0.0034)		
SIMULATOR VAPOR	INTERFERENCE	11:48
X[1] = 0.0174 (-0.0059) (-0.0045)		
SIMULATOR VAPOR	INTERFERENCE	11:49
X[1] = 0.0176 (-0.0059) (-0.0046)		
SIMULATOR VAPOR	INTERFERENCE	11:50
X[1] = 0.0176 (-0.0053) (-0.0045)		
SIMULATOR VAPOR	INTERFERENCE	11:51
X[1] = 0.0175 (-0.0062) (-0.0047)		
SIMULATOR VAPOR	INTERFERENCE	11:52
X[1] = 0.0175 (-0.0058) (-0.0040)		
SIMULATOR VAPOR	INTERFERENCE	11:53
X[1] = 0.0175 (-0.0062) (-0.0048)		
SIMULATOR VAPOR	INTERFERENCE	11:54
X[1] = 0.0177 (-0.0058) (-0.0048)		
SIMULATOR VAPOR	INTERFERENCE	11:55
X[1] = 0.0173 (-0.0060) (-0.0048)		
SIMULATOR VAPOR	INTERFERENCE	11:56
X[1] = 0.0175 (-0.0061) (-0.0048)		
BLANK TEST	0.000	11:57



ACCURACY AND PRECISION TEST

STATE OF VERMONT

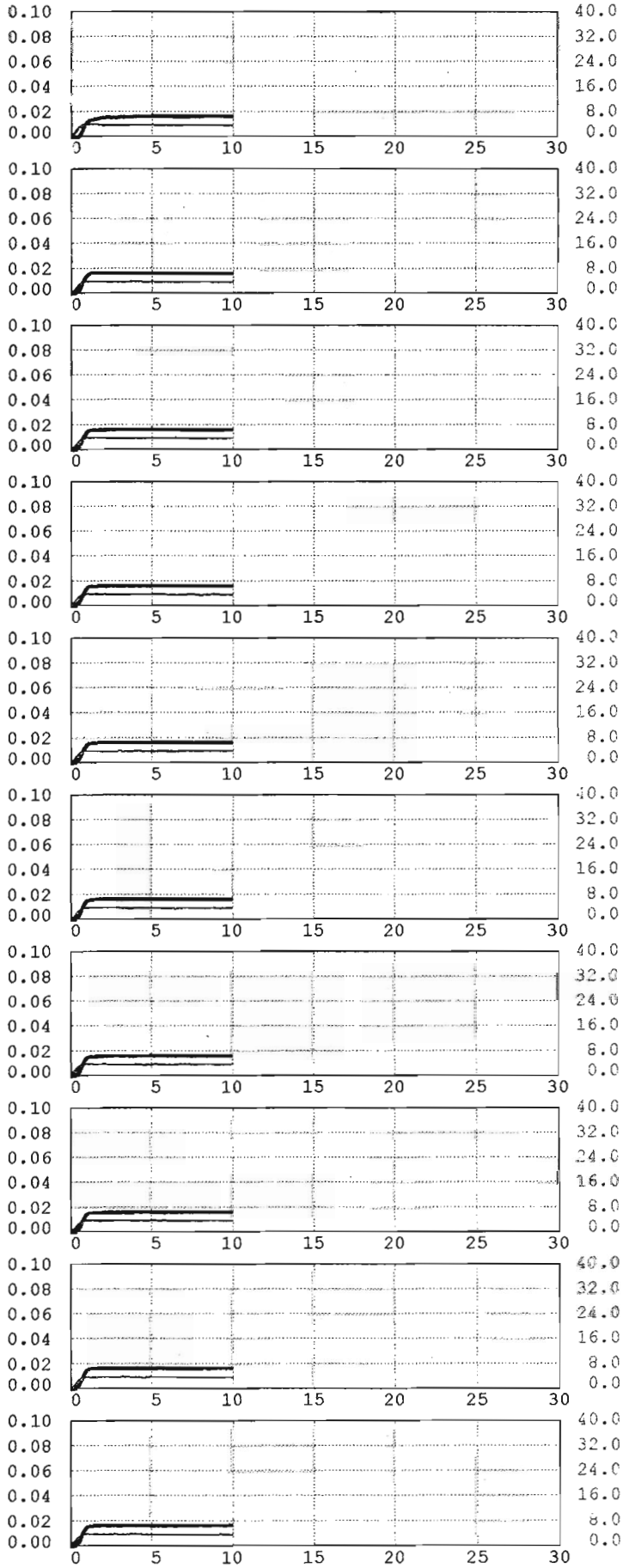
DataMaster DMT: 121506

Date: 04/15/2008
Time: 12:40:06

SUPERVISOR NAME: ALB .04MEOH IN H20

SOLUTION LOT #: 08-12-040M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	12:41
INTERNAL STANDARD	PASSED	12:41
Xq = 0.1463 (0.18%)		
SIMULATOR VAPOR	INTERFERENCE	12:41
X[1] = 0.0177 (-0.0058) (-0.0044)		
SIMULATOR VAPOR	INTERFERENCE	12:42
X[1] = 0.0176 (-0.0064) (-0.0038)		
SIMULATOR VAPOR	INTERFERENCE	12:43
X[1] = 0.0175 (-0.0072) (-0.0042)		
SIMULATOR VAPOR	INTERFERENCE	12:44
X[1] = 0.0175 (-0.0063) (-0.0047)		
SIMULATOR VAPOR	INTERFERENCE	12:45
X[1] = 0.0175 (-0.0062) (-0.0043)		
SIMULATOR VAPOR	INTERFERENCE	12:46
X[1] = 0.0176 (-0.0071) (-0.0043)		
SIMULATOR VAPOR	INTERFERENCE	12:47
X[1] = 0.0173 (-0.0067) (-0.0042)		
SIMULATOR VAPOR	INTERFERENCE	12:48
X[1] = 0.0173 (-0.0070) (-0.0049)		
SIMULATOR VAPOR	INTERFERENCE	12:49
X[1] = 0.0176 (-0.0062) (-0.0047)		
SIMULATOR VAPOR	INTERFERENCE	12:50
X[1] = 0.0177 (-0.0056) (-0.0044)		
BLANK TEST	0.000	12:51



04/15/2008 12:58

ACCURACY AND PRECISION TEST

STATE OF VERMONT

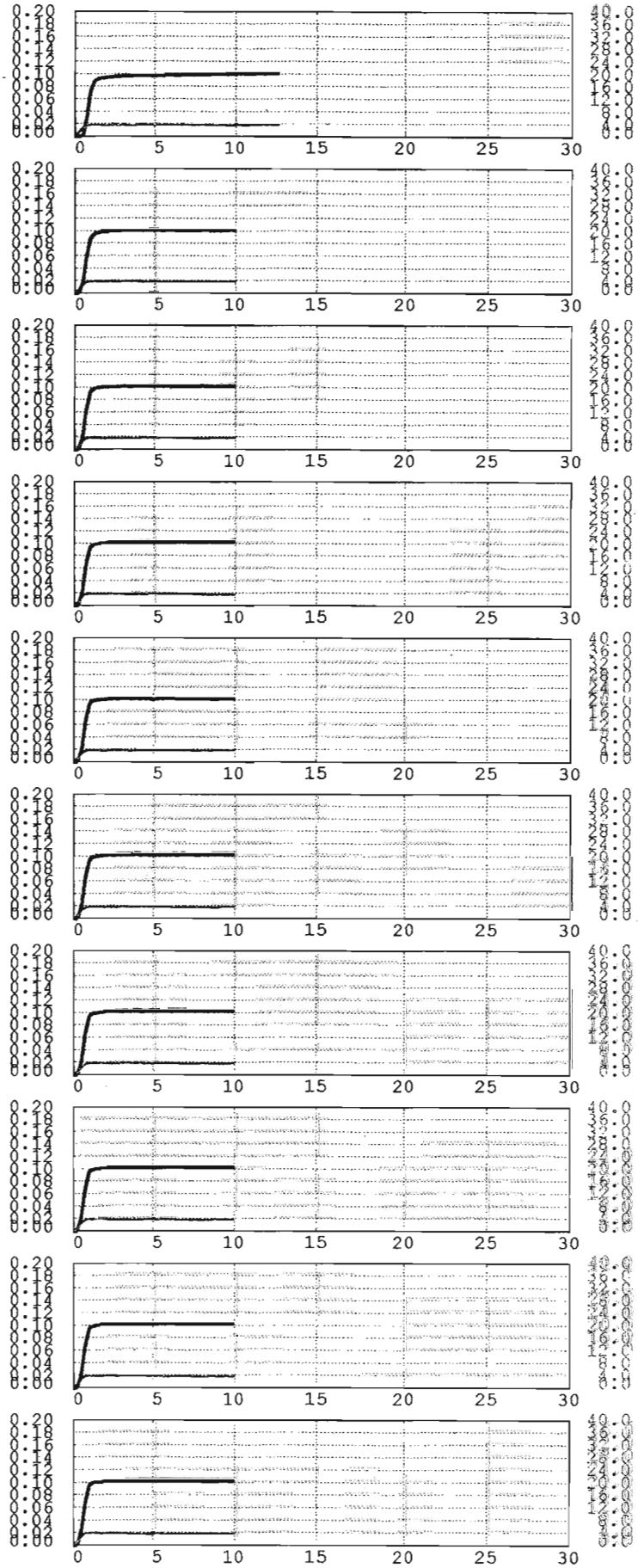
DataMaster DMT: 121506

Date: 04/15/2008
Time: 13:00:18

SUPERVISOR NAME: ALB .04MEOH .08ETOH

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:01
INTERNAL STANDARD	PASSED	13:01
Xq = 0.1459 (0.12%)		
SIMULATOR VAPOR	INTERFERENCE	13:01
X[1] = 0.1013 (-0.0062) (-0.0029)		
SIMULATOR VAPOR	INTERFERENCE	13:02
X[1] = 0.1019 (-0.0065) (-0.0029)		
SIMULATOR VAPOR	INTERFERENCE	13:03
X[1] = 0.1033 (-0.0063) (-0.0033)		
SIMULATOR VAPOR	INTERFERENCE	13:04
X[1] = 0.1031 (-0.0066) (-0.0036)		
SIMULATOR VAPOR	INTERFERENCE	13:05
X[1] = 0.1032 (-0.0069) (-0.0040)		
SIMULATOR VAPOR	INTERFERENCE	13:06
X[1] = 0.1032 (-0.0070) (-0.0038)		
SIMULATOR VAPOR	INTERFERENCE	13:07
X[1] = 0.1034 (-0.0073) (-0.0037)		
SIMULATOR VAPOR	INTERFERENCE	13:08
X[1] = 0.1036 (-0.0063) (-0.0032)		
SIMULATOR VAPOR	INTERFERENCE	13:09
X[1] = 0.1036 (-0.0072) (-0.0031)		
SIMULATOR VAPOR	INTERFERENCE	13:10
X[1] = 0.1037 (-0.0070) (-0.0035)		
BLANK TEST	0.000	13:11



04/15/2008 13:14

ACCURACY AND PRECISION TEST

STATE OF VERMONT

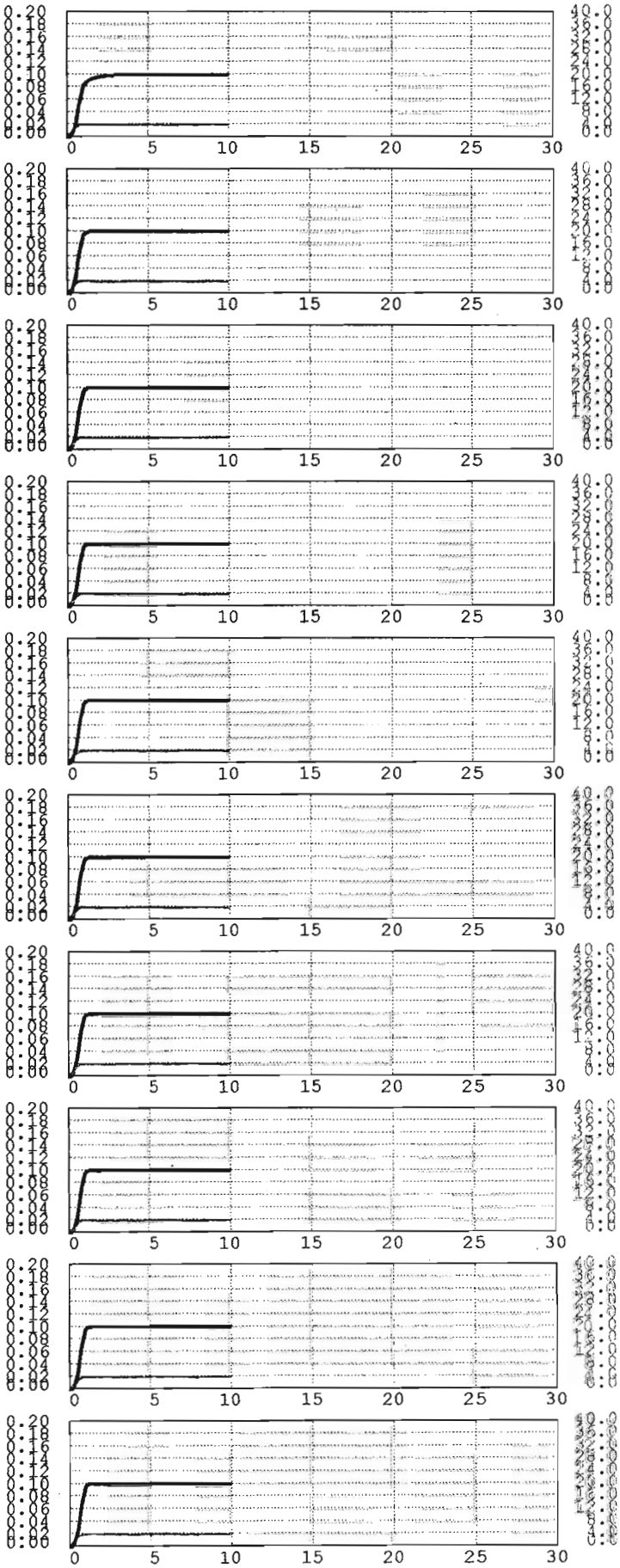
DataMaster DMT: 121506

Date: 04/15/2008
Time: 13:37:39

SUPERVISOR NAME: DMR 0.04 MEOH IN 0.08

SOLUTION LOT #: 07-09-080M
SOLUTION CONCENTRATION: 0.040

BLANK TEST		0.000	13:38
INTERNAL STANDARD		PASSED	13:38
Xq = 0.1460 (0.008)			
SIMULATOR VAPOR	INTERFERENCE		13:39
X[1] = 0.1026 (-0.0064) (-0.0031)			
SIMULATOR VAPOR	INTERFERENCE		13:40
X[1] = 0.1034 (-0.0062) (-0.0026)			
SIMULATOR VAPOR	INTERFERENCE		13:41
X[1] = 0.1035 (-0.0073) (-0.0032)			
SIMULATOR VAPOR	INTERFERENCE		13:41
X[1] = 0.1039 (-0.0066) (-0.0033)			
SIMULATOR VAPOR	INTERFERENCE		13:43
X[1] = 0.1040 (-0.0063) (-0.0030)			
SIMULATOR VAPOR	INTERFERENCE		13:43
X[1] = 0.1036 (-0.0073) (-0.0030)			
SIMULATOR VAPOR	INTERFERENCE		13:44
X[1] = 0.1033 (-0.0071) (-0.0034)			
SIMULATOR VAPOR	INTERFERENCE		13:45
X[1] = 0.1033 (-0.0069) (-0.0039)			
SIMULATOR VAPOR	INTERFERENCE		13:46
X[1] = 0.1039 (-0.0061) (-0.0034)			
SIMULATOR VAPOR	INTERFERENCE		13:47
X[1] = 0.1033 (-0.0075) (-0.0046)			
BLANK TEST		0.000	13:48



04/15/2008 13:50

ACCURACY AND PRECISION TEST

STATE OF VERMONT

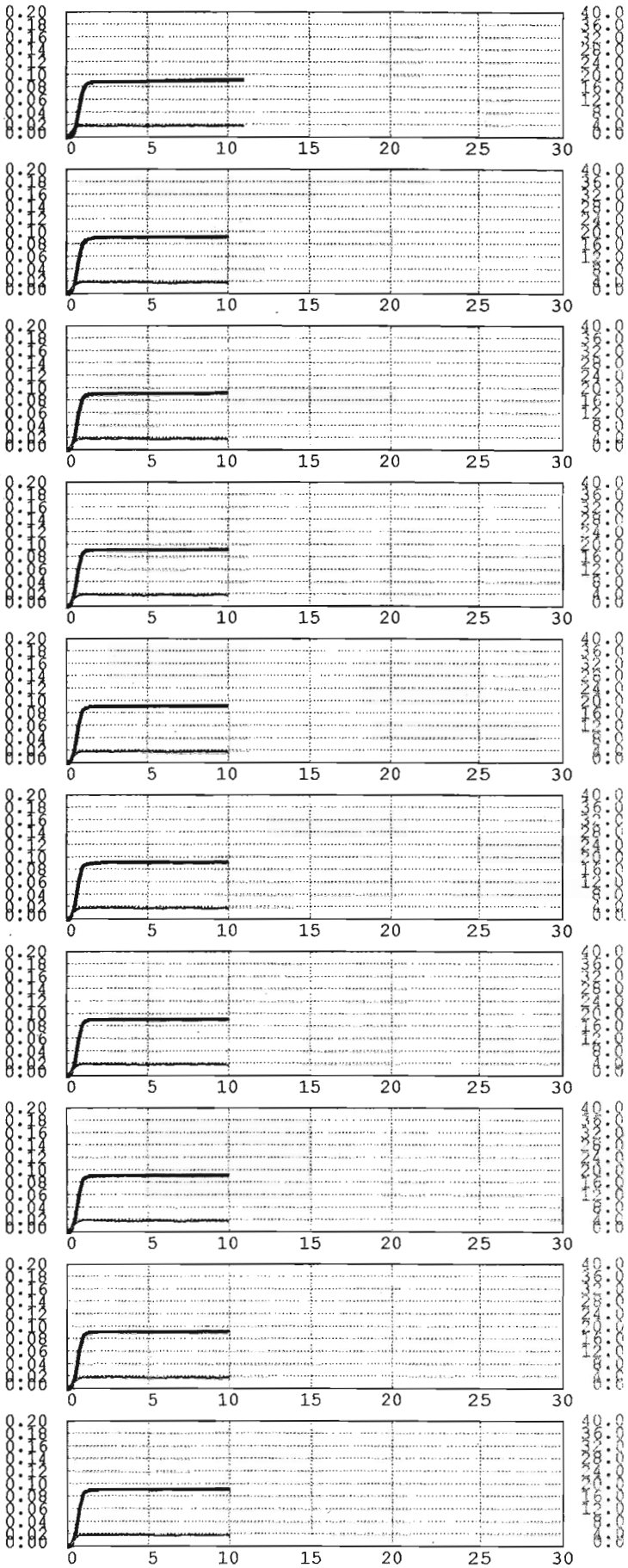
DataMaster DMT: 121506

Date: 04/15/2008
Time: 13:54:15

SUPERVISOR NAME: DMR 0.02 ACET IN 0.08 ETOH

SOLUTION LOT #: 07-09-080A2
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	13:55
INTERNAL STANDARD	PASSED	13:55
Xq = 0.1461 (0.06%)		
SIMULATOR VAPOR	INTERFERENCE	13:55
X[1] = 0.0918 (-0.0109) (0.0031)		
SIMULATOR VAPOR	INTERFERENCE	13:56
X[1] = 0.0918 (-0.0117) (0.0027)		
SIMULATOR VAPOR	INTERFERENCE	13:57
X[1] = 0.0921 (-0.0114) (0.0027)		
SIMULATOR VAPOR	INTERFERENCE	13:58
X[1] = 0.0921 (-0.0116) (0.0025)		
SIMULATOR VAPOR	INTERFERENCE	13:59
X[1] = 0.0920 (-0.0118) (0.0029)		
SIMULATOR VAPOR	INTERFERENCE	14:00
X[1] = 0.0923 (-0.0116) (0.0029)		
SIMULATOR VAPOR	INTERFERENCE	14:01
X[1] = 0.0914 (-0.0120) (0.0035)		
SIMULATOR VAPOR	INTERFERENCE	14:02
X[1] = 0.0916 (-0.0120) (0.0031)		
SIMULATOR VAPOR	INTERFERENCE	14:03
X[1] = 0.0922 (-0.0108) (0.0031)		
SIMULATOR VAPOR	INTERFERENCE	14:04
X[1] = 0.0918 (-0.0120) (0.0032)		
BLANK TEST	0.000	14:05



04/15/2008 15:34

ACCURACY AND PRECISION TEST

STATE OF VERMONT

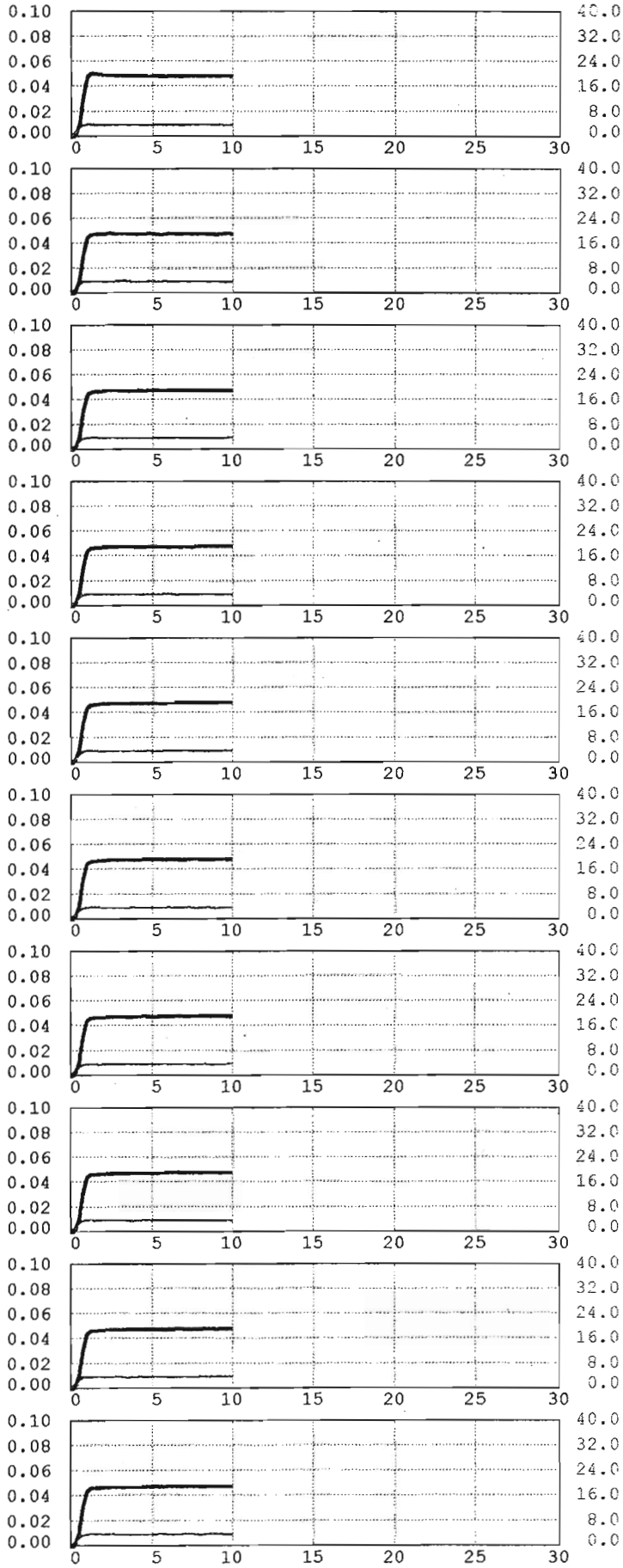
DataMaster DMT: 121506

Date: 04/15/2008
Time: 15:36:50

SUPERVISOR NAME: DMR 0.02 ACET IN 0.04 ETOH

SOLUTION LOT #: 07-14-04B
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	15:37
INTERNAL STANDARD	PASSED	15:37
Xq = 0.1464 (0.24%)		
SIMULATOR VAPOR	INTERFERENCE	15:38
X[1] = 0.0492 (-0.0107) (0.0025)		
SIMULATOR VAPOR	INTERFERENCE	15:39
X[1] = 0.0488 (-0.0116) (0.0020)		
SIMULATOR VAPOR	INTERFERENCE	15:40
X[1] = 0.0488 (-0.0114) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	15:41
X[1] = 0.0487 (-0.0118) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	15:42
X[1] = 0.0490 (-0.0111) (0.0015)		
SIMULATOR VAPOR	INTERFERENCE	15:43
X[1] = 0.0491 (-0.0108) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	15:44
X[1] = 0.0488 (-0.0109) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	15:45
X[1] = 0.0489 (-0.0118) (0.0023)		
SIMULATOR VAPOR	INTERFERENCE	15:46
X[1] = 0.0486 (-0.0113) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	15:47
X[1] = 0.0484 (-0.0109) (0.0012)		
BLANK TEST	0.000	15:47



04/15/2008 15:48

ACCURACY AND PRECISION TEST

STATE OF VERMONT

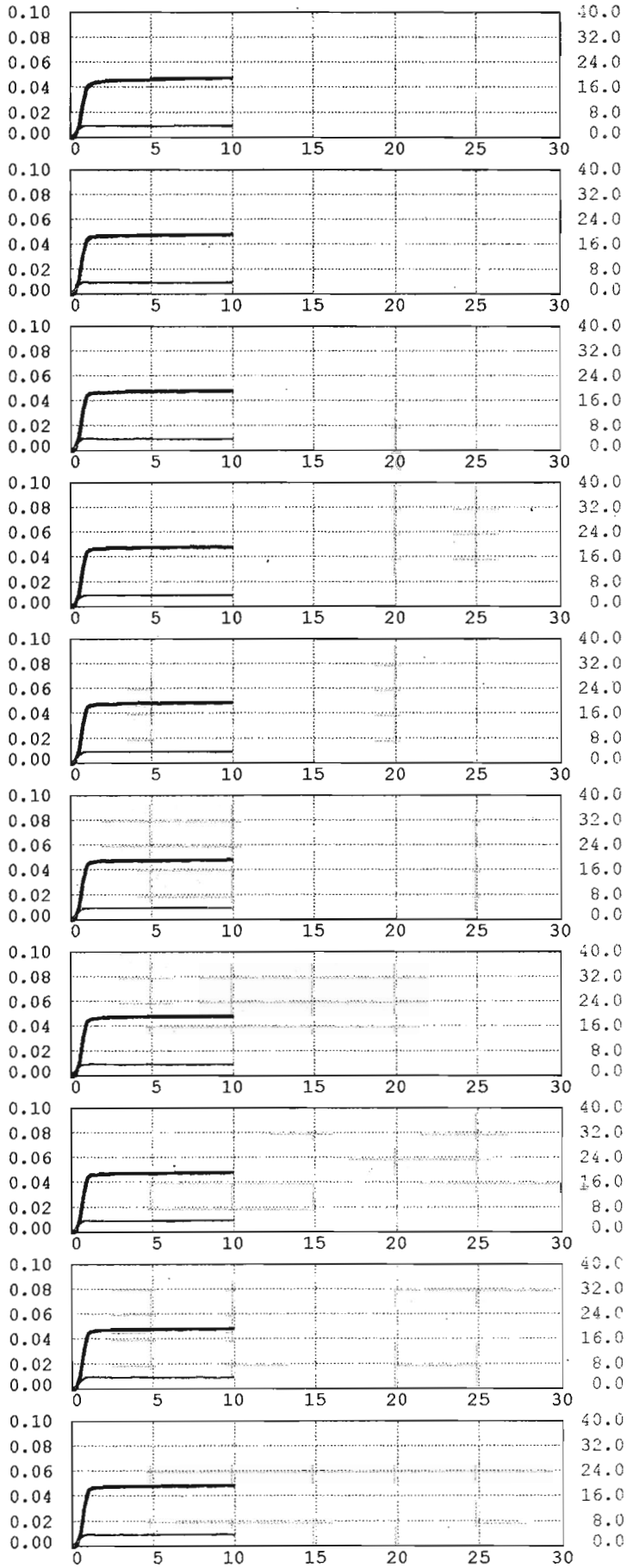
DataMaster DMT: 121506

Date: 04/15/2008
Time: 16:06:01

SUPERVISOR NAME: ALB .02 ACETONE .04 ETOH

SOLUTION LOT #: 08-14-04B
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	16:06
INTERNAL STANDARD	PASSED	16:07
Xq = 0.1459 (0.12%)		
SIMULATOR VAPOR	INTERFERENCE	16:07
X[1] = 0.0483 (-0.0107) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	16:08
X[1] = 0.0487 (-0.0110) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	16:09
X[1] = 0.0486 (-0.0113) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	16:10
X[1] = 0.0489 (-0.0113) (0.0023)		
SIMULATOR VAPOR	INTERFERENCE	16:11
X[1] = 0.0494 (-0.0097) (0.0022)		
SIMULATOR VAPOR	INTERFERENCE	16:12
X[1] = 0.0492 (-0.0114) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	16:13
X[1] = 0.0489 (-0.0109) (0.0020)		
SIMULATOR VAPOR	INTERFERENCE	16:14
X[1] = 0.0486 (-0.0113) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	16:15
X[1] = 0.0491 (-0.0108) (0.0011)		
SIMULATOR VAPOR	INTERFERENCE	16:16
X[1] = 0.0493 (-0.0109) (0.0019)		
BLANK TEST	0.000	16:17



04/15/2008 16:17

ACCURACY AND PRECISION TEST

STATE OF VERMONT

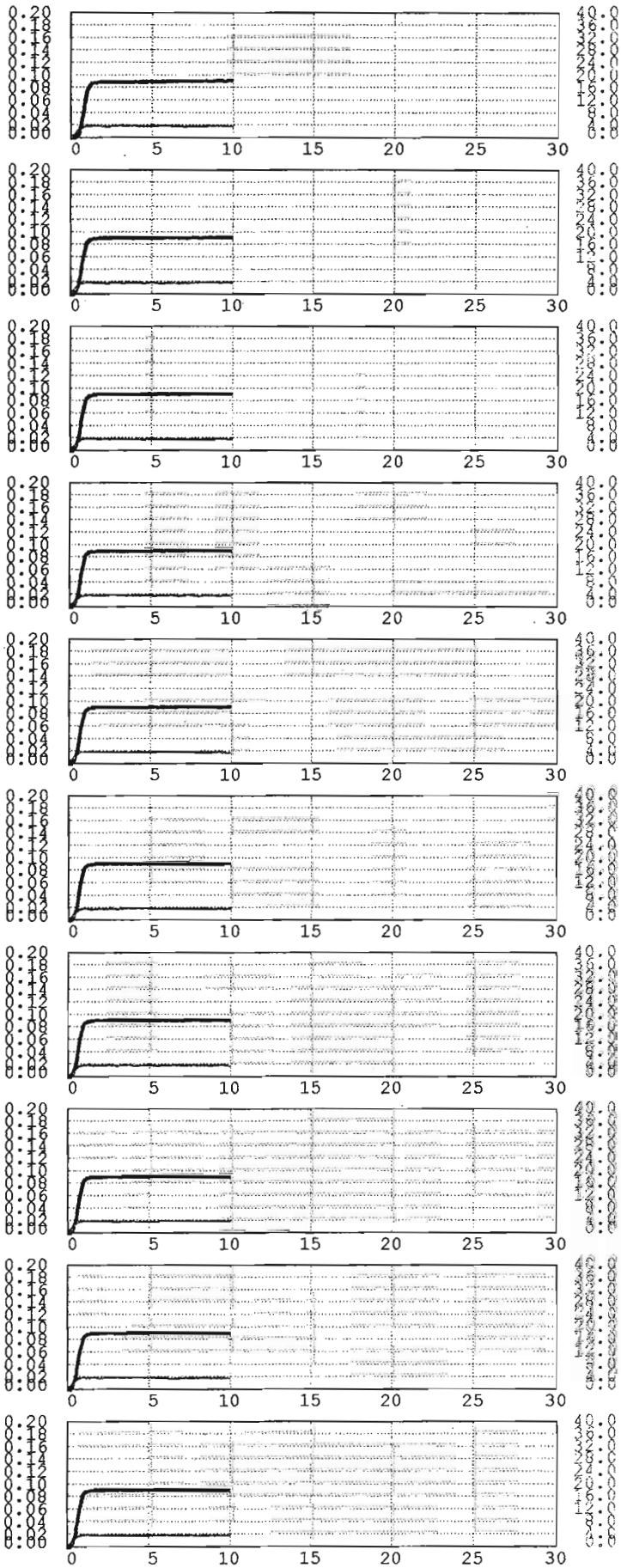
DataMaster DMT: 121506

Date: 04/16/2008
Time: 08:27:49

SUPERVISOR NAME: SEH .02ACETONE IN .08ETOH

SOLUTION LOT #: 07-09-080 A2
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	08:28
INTERNAL STANDARD	PASSED	08:28
Xq = 0.1462 (0.12%)		
SIMULATOR VAPOR	INTERFERENCE	08:29
X[1] = 0.0909 (-0.0111) (0.0026)		
SIMULATOR VAPOR	INTERFERENCE	08:30
X[1] = 0.0913 (-0.0107) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	08:31
X[1] = 0.0921 (-0.0113) (0.0023)		
SIMULATOR VAPOR	INTERFERENCE	08:32
X[1] = 0.0908 (-0.0127) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	08:33
X[1] = 0.0911 (-0.0112) (0.0028)		
SIMULATOR VAPOR	INTERFERENCE	08:34
X[1] = 0.0914 (-0.0109) (0.0019)		
SIMULATOR VAPOR	INTERFERENCE	08:35
X[1] = 0.0917 (-0.0115) (0.0022)		
SIMULATOR VAPOR	INTERFERENCE	08:36
X[1] = 0.0911 (-0.0122) (0.0026)		
SIMULATOR VAPOR	INTERFERENCE	08:37
X[1] = 0.0911 (-0.0118) (0.0025)		
SIMULATOR VAPOR	INTERFERENCE	08:38
X[1] = 0.0912 (-0.0116) (0.0024)		
BLANK TEST	0.000	08:38



04/16/2008 10:42

ACCURACY AND PRECISION TEST

STATE OF VERMONT

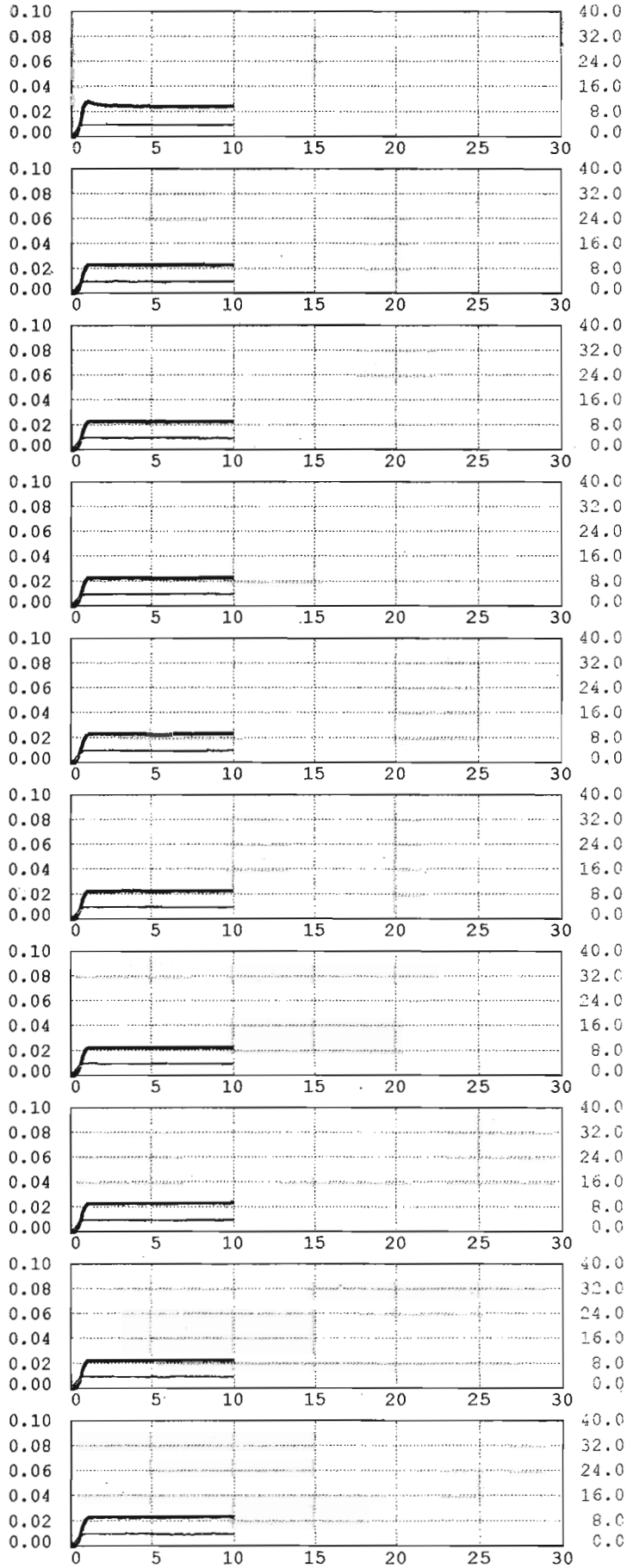
DataMaster DMT: 121506

Date: 04/16/2008
Time: 09:58:23

SUPERVISOR NAME: SEH .04IPA in H_2O

SOLUTION LOT #: 08-13-040 I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	09:59
INTERNAL STANDARD	PASSED	09:59
Xq = 0.1473 (0.868)		
SIMULATOR VAPOR	INTERFERENCE	09:59
X[1] = 0.0251 (-0.0303) (0.0027)		
SIMULATOR VAPOR	INTERFERENCE	10:00
X[1] = 0.0240 (-0.0324) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	10:01
X[1] = 0.0242 (-0.0328) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	10:02
X[1] = 0.0238 (-0.0321) (0.0012)		
SIMULATOR VAPOR	INTERFERENCE	10:03
X[1] = 0.0243 (-0.0317) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	10:04
X[1] = 0.0239 (-0.0324) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	10:05
X[1] = 0.0239 (-0.0326) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	10:06
X[1] = 0.0242 (-0.0320) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	10:07
X[1] = 0.0235 (-0.0329) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	10:08
X[1] = 0.0243 (-0.0319) (0.0015)		
BLANK TEST	0.000	10:09



04/16/2008 10:43

ACCURACY AND PRECISION TEST

STATE OF VERMONT

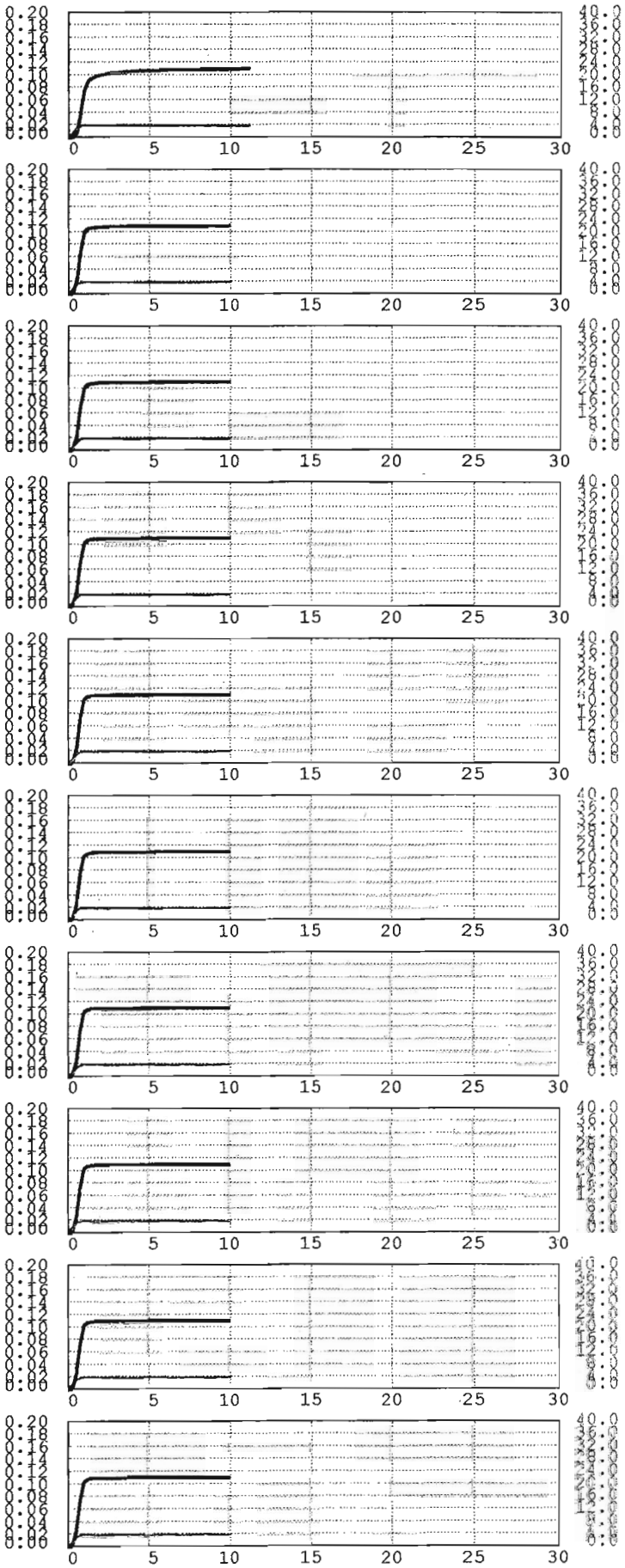
DataMaster DMT: 121506

Date: 04/16/2008
Time: 10:29:51

SUPERVISOR NAME: SEH .04IPAIN.08ETOHINH20

SOLUTION LOT #: 07-09-080 I
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	10:30
INTERNAL STANDARD	PASSED	10:30
Xq = 0.1457 (0.25%)		
SIMULATOR VAPOR	INTERFERENCE	10:31
X[1] = 0.1093 (-0.0340) (0.0043)		
SIMULATOR VAPOR	INTERFERENCE	10:32
X[1] = 0.1097 (-0.0345) (0.0041)		
SIMULATOR VAPOR	INTERFERENCE	10:33
X[1] = 0.1099 (-0.0339) (0.0039)		
SIMULATOR VAPOR	INTERFERENCE	10:34
X[1] = 0.1103 (-0.0337) (0.0040)		
SIMULATOR VAPOR	INTERFERENCE	10:35
X[1] = 0.1100 (-0.0343) (0.0034)		
SIMULATOR VAPOR	INTERFERENCE	10:36
X[1] = 0.1099 (-0.0343) (0.0039)		
SIMULATOR VAPOR	INTERFERENCE	10:37
X[1] = 0.1100 (-0.0341) (0.0040)		
SIMULATOR VAPOR	INTERFERENCE	10:38
X[1] = 0.1099 (-0.0343) (0.0036)		
SIMULATOR VAPOR	INTERFERENCE	10:39
X[1] = 0.1102 (-0.0345) (0.0036)		
SIMULATOR VAPOR	INTERFERENCE	10:40
X[1] = 0.1103 (-0.0337) (0.0040)		
BLANK TEST	0.000	10:40



ACCURACY AND PRECISION TEST

STATE OF VERMONT

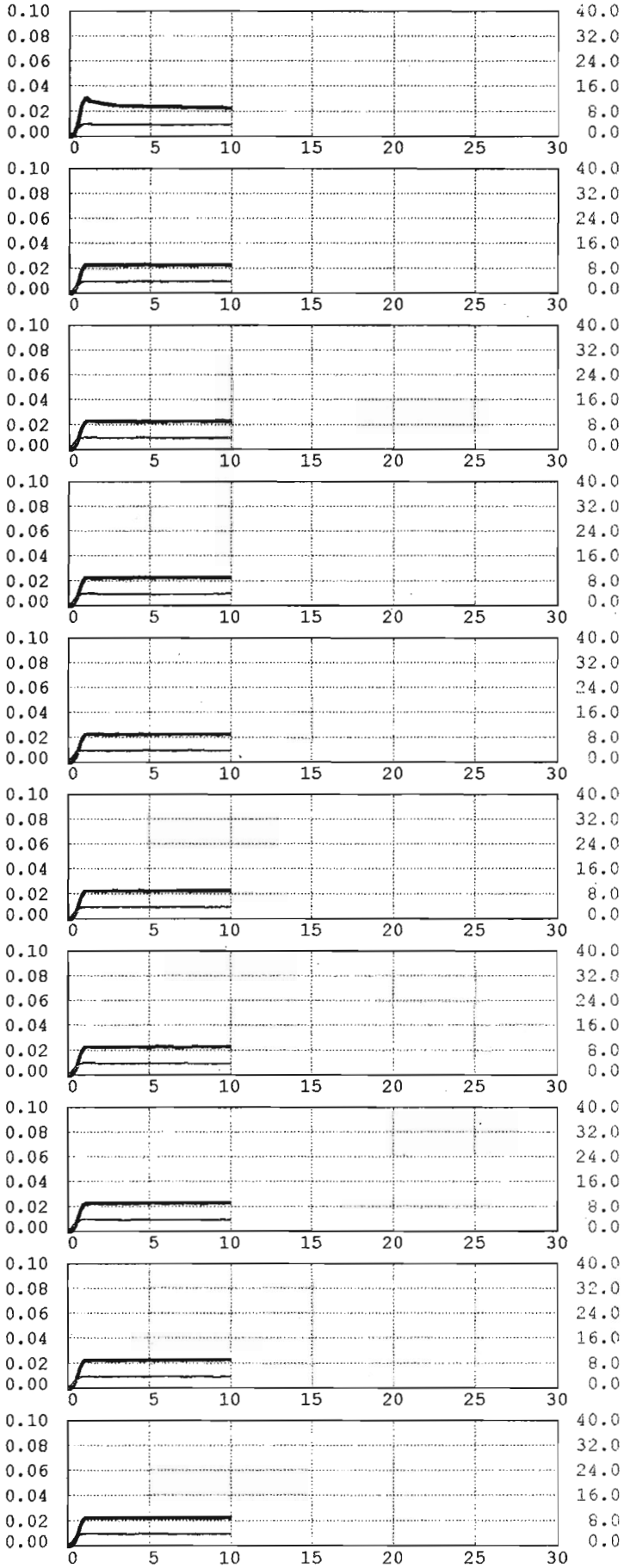
DataMaster DMT: 121506

Date: 04/16/2008
Time: 11:30:28

SUPERVISOR NAME: HXB .04 IPA IN H2O

SOLUTION LOT #: 08-13-040 I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	11:31
INTERNAL STANDARD	PASSED	11:31
Xq = 0.1460 (0.00%)		
SIMULATOR VAPOR	INTERFERENCE	11:31
X[1] = 0.0238 (-0.0327) (0.0034)		
SIMULATOR VAPOR	INTERFERENCE	11:32
X[1] = 0.0240 (-0.0324) (0.0022)		
SIMULATOR VAPOR	INTERFERENCE	11:33
X[1] = 0.0241 (-0.0322) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	11:34
X[1] = 0.0239 (-0.0322) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	11:35
X[1] = 0.0238 (-0.0318) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	11:36
X[1] = 0.0241 (-0.0323) (0.0015)		
SIMULATOR VAPOR	INTERFERENCE	11:37
X[1] = 0.0243 (-0.0319) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	11:38
X[1] = 0.0241 (-0.0325) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	11:39
X[1] = 0.0238 (-0.0318) (0.0019)		
SIMULATOR VAPOR	INTERFERENCE	11:40
X[1] = 0.0233 (-0.0329) (0.0013)		
BLANK TEST	0.000	11:41



04/16/2008 11:42

ACCURACY AND PRECISION TEST

STATE OF VERMONT

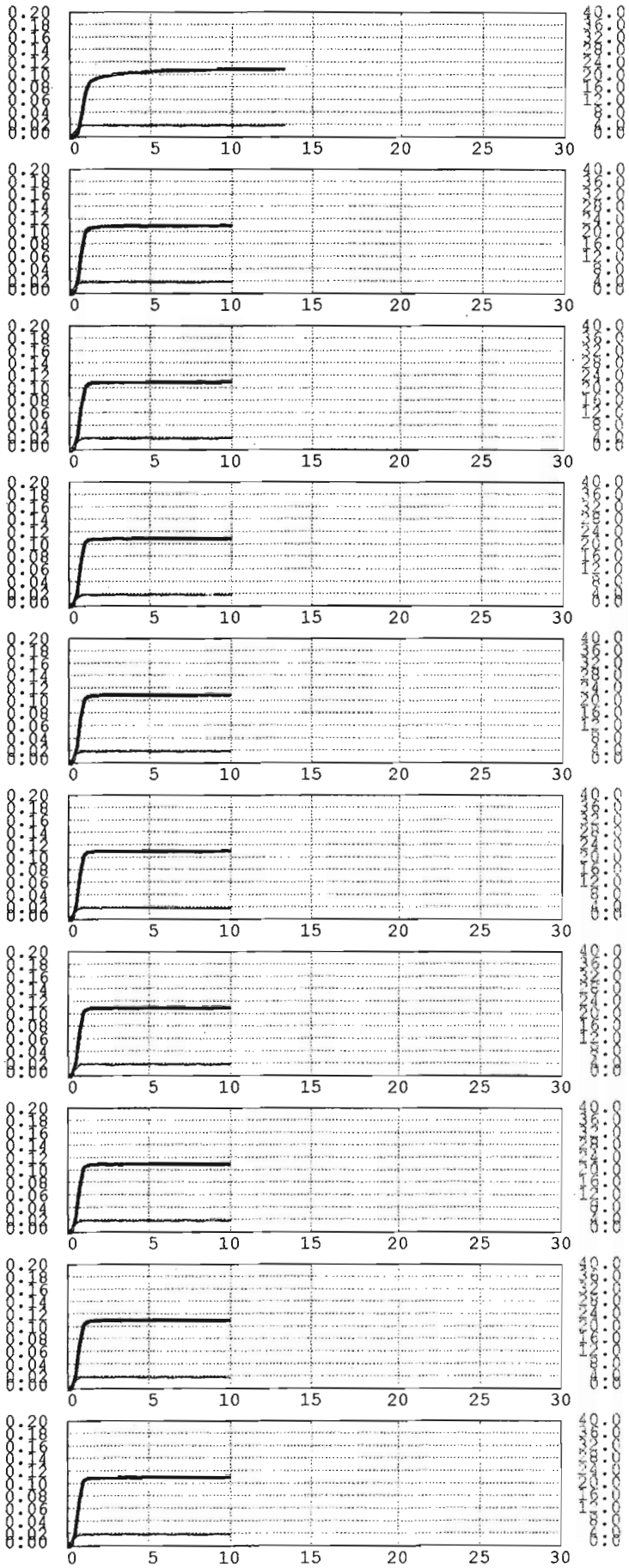
DataMaster DMT: 121506

Date: 04/16/2008
Time: 11:44:22

SUPERVISOR NAME: HXB .04IP#A IN .08ETOH

SOLUTION LOT #: 07-09-080I
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	11:45
INTERNAL STANDARD	PASSED	11:45
Xq = 0.1459 (0.06%)		
SIMULATOR VAPOR	INTERFERENCE	11:45
X[1] = 0.1095 (-0.0331) (0.0051)		
SIMULATOR VAPOR	INTERFERENCE	11:46
X[1] = 0.1097 (-0.0341) (0.0047)		
SIMULATOR VAPOR	INTERFERENCE	11:47
X[1] = 0.1098 (-0.0344) (0.0046)		
SIMULATOR VAPOR	INTERFERENCE	11:48
X[1] = 0.1096 (-0.0345) (0.0039)		
SIMULATOR VAPOR	INTERFERENCE	11:49
X[1] = 0.1097 (-0.0341) (0.0039)		
SIMULATOR VAPOR	INTERFERENCE	11:50
X[1] = 0.1108 (-0.0337) (0.0049)		
SIMULATOR VAPOR	INTERFERENCE	11:51
X[1] = 0.1101 (-0.0342) (0.0044)		
SIMULATOR VAPOR	INTERFERENCE	11:52
X[1] = 0.1101 (-0.0338) (0.0051)		
SIMULATOR VAPOR	INTERFERENCE	11:54
X[1] = 0.1107 (-0.0338) (0.0044)		
SIMULATOR VAPOR	INTERFERENCE	11:55
X[1] = 0.1101 (-0.0340) (0.0046)		
BLANK TEST	0.000	11:56



Section 6: Mouth Alcohol

DIAGNOSTIC RESULT

DataMaster DMT: 121506
Location:
Calibration Date:
Certification Date: 03/14/2008
Installation Date: 03/14/2008
Test Date: 04/04/2008
Time: 09:32

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 0.30
PIC 2.05
Modem 1.01
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 49.09°C
Breath Tube    = 48.09°C
Digital Sim    = 0.0°C

SETTINGS
Lamp Voltage   = 1.66 V
Cooler Voltage = 1.60 V
Bias Voltage   = 81.0 V
Chopper Freq   = 547.2 Hz

PUMP INFO
Flow Rate = 4.526 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.0400   0.0419
MIN(V)   0.0382   0.0398

FILTER INFO
Filter 1  0.040  Zero = true
Filter 2  0.518  Zero = true
Filter 3  0.042  Zero = true

INTERNAL STANDARD
Xq = 0.1471  0.74%
```

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 121506

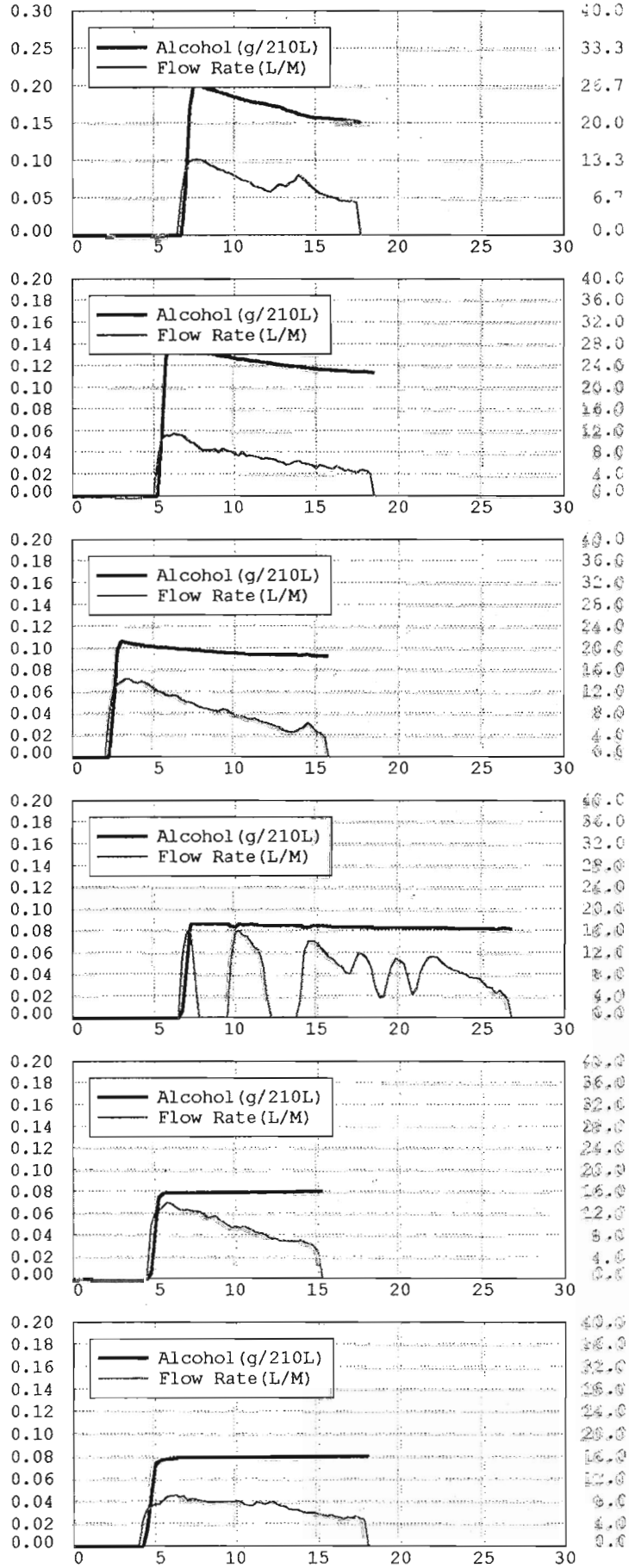
Certification Date: 03/14/2008
Installation Date: 03/14/2008

Date: 04/04/2008
Time: 09:49:52

Subject Name: .08 SIM .40 TUBE

Test Operator Name: A L B
Comment: MOUTH ALC TEST

BLANK TEST	0.000	09:50
INTERNAL STANDARD	PASSED	09:50
Xq = 0.1460 (0.008)		
SUBJECT SAMPLE (Vol=1.7L)	INVALID	09:51
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:52
SUBJECT SAMPLE (Vol=1.5L)	INVALID	09:52
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:53
SUBJECT SAMPLE (Vol=1.9L)	INVALID	09:54
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:55
SUBJECT SAMPLE (Vol=1.8L)	INVALID	09:55
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:56
SUBJECT SAMPLE (Vol=1.6L)	0.080	09:56
X[1] = 0.0804 (0.0002) (0.0012)		
BLANK TEST	0.000	09:57
SUBJECT SAMPLE (Vol=1.5L)	0.080	09:57
X[1] = 0.0805 (0.0000) (0.0017)		



04/04/2008 09:58

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 121506

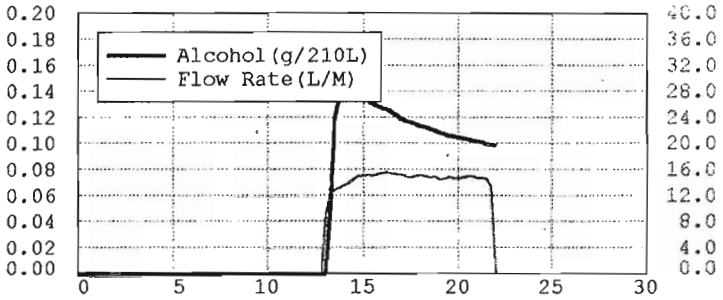
Certification Date: 03/14/2008
Installation Date: 03/14/2008

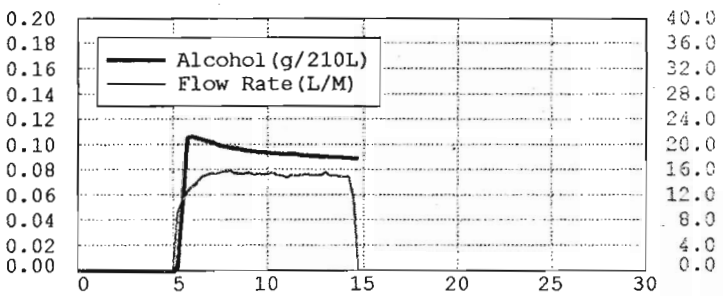
Date: 04/04/2008
Time: 10:33:13

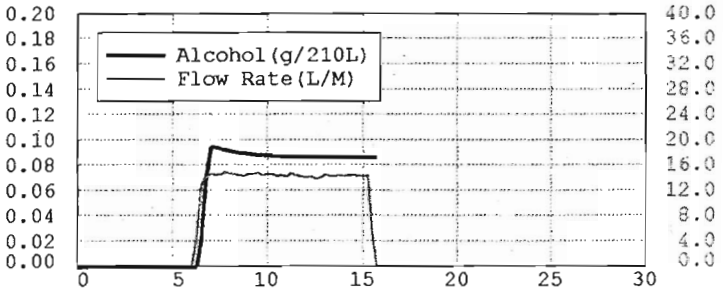
Subject Name: .08 SIM .40 TUBE

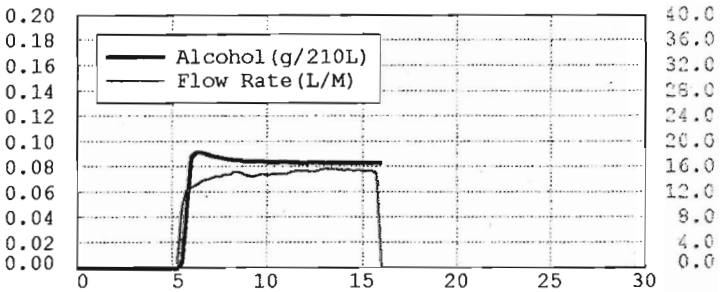
Test Operator Name: S E H
Comment: MOUTH ALC TEST

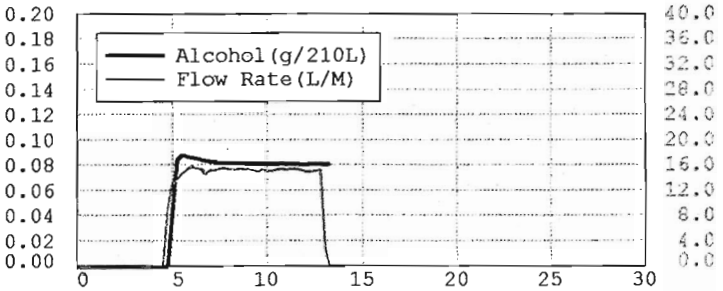
BLANK TEST	0.000	10:34
INTERNAL STANDARD	PASSED	10:34
SUBJECT SAMPLE (Vol=2.1L)	INVALID	10:34
BLANK TEST	0.000	10:35
SUBJECT SAMPLE (Vol=2.3L)	INVALID	10:36
BLANK TEST	0.000	10:36
SUBJECT SAMPLE (Vol=2.1L)	INVALID	10:37
BLANK TEST	0.000	10:38
SUBJECT SAMPLE (Vol=2.5L)	INVALID	10:38
BLANK TEST	0.000	10:39
SUBJECT SAMPLE (Vol=2.0L)	INVALID	10:39
BLANK TEST	0.000	10:40
SUBJECT SAMPLE (Vol=2.2L)	INVALID	10:40

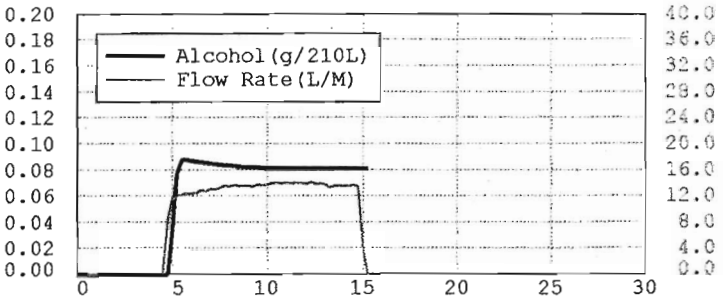












04/04/2008 10:40

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 121506

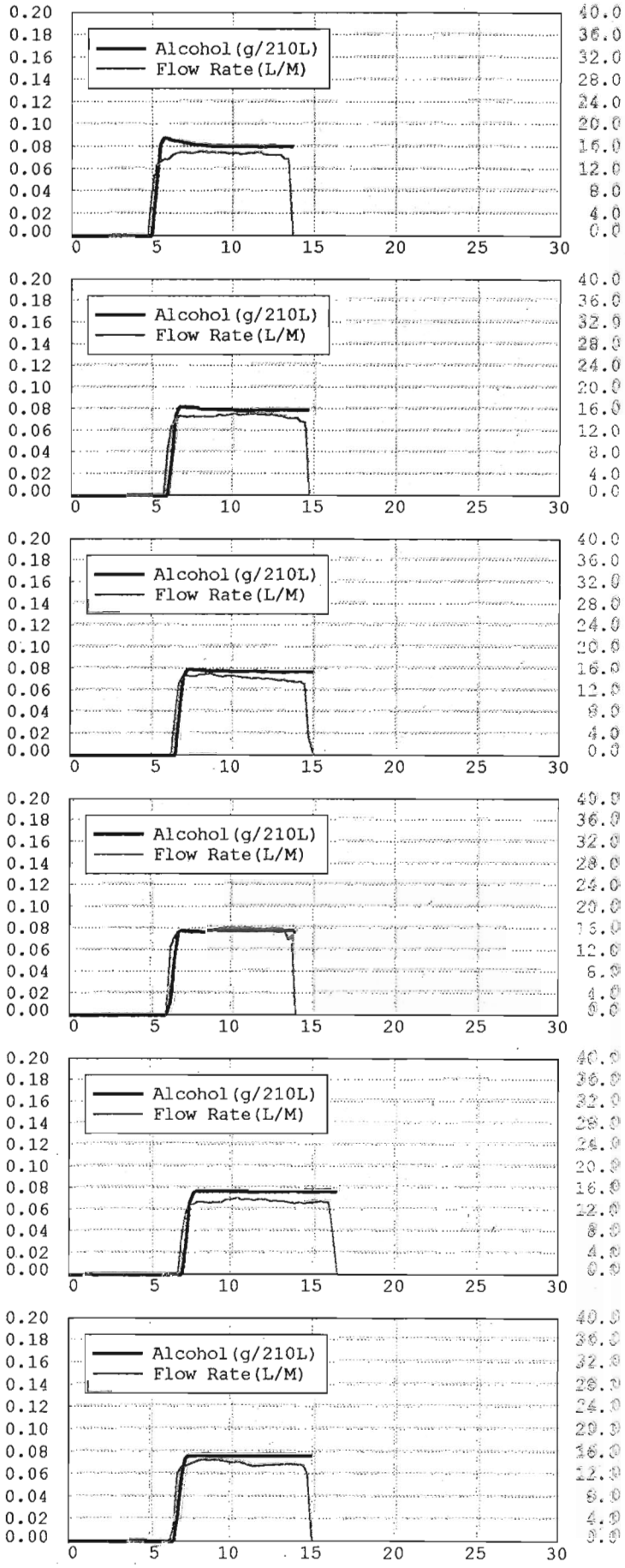
Certification Date: 03/14/2008
Installation Date: 03/14/2008

Date: 04/04/2008
Time: 10:41:45

Subject Name: .08 SIM .40 TUBE

Test Operator Name: S E H
Comment: MOUTH ALC TEST

BLANK TEST	0.000	10:42
INTERNAL STANDARD	PASSED	10:42
Xq = 0.1457 (0.25%)		
SUBJECT SAMPLE (Vol=2.0L)	INVALID	10:43
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:43
SUBJECT SAMPLE (Vol=2.0L)	0.079	10:44
X[1] = 0.0792 (-0.0007) (0.0021)		
BLANK TEST	0.000	10:44
SUBJECT SAMPLE (Vol=1.9L)	0.077	10:45
X[1] = 0.0773 (-0.0012) (0.0019)		
BLANK TEST	0.000	10:46
SUBJECT SAMPLE (Vol=1.9L)	0.076	10:46
X[1] = 0.0764 (-0.0013) (0.0018)		
BLANK TEST	0.000	10:47
SUBJECT SAMPLE (Vol=2.0L)	0.076	10:47
X[1] = 0.0768 (-0.0007) (0.0016)		
BLANK TEST	0.000	10:48
SUBJECT SAMPLE (Vol=1.8L)	0.076	10:48
X[1] = 0.0760 (-0.0003) (0.0016)		



04/04/2008 11:48

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 121506

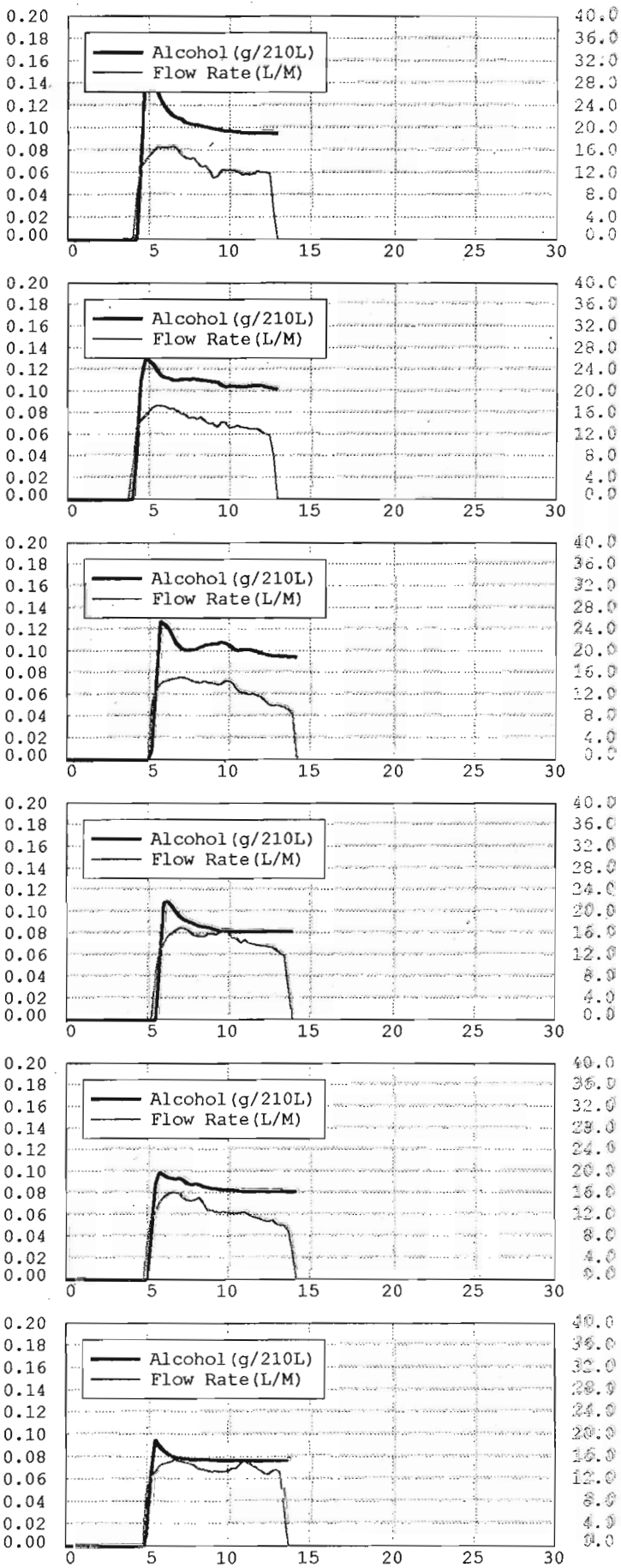
Certification Date: 03/14/2008
Installation Date: 03/14/2008

Date: 04/04/2008
Time: 14:00:36

Subject Name: .08 SIM .40 TUBE

Test Operator Name: H X B
Comment: MOUTH ALC TEST

BLANK TEST	0.000	14:01
INTERNAL STANDARD	PASSED	14:01
SUBJECT SAMPLE (Vol=1.9L)	INVALID	14:01
BLANK TEST	0.000	14:02
SUBJECT SAMPLE (Vol=2.1L)	INVALID	14:03
BLANK TEST	0.000	14:04
SUBJECT SAMPLE (Vol=1.9L)	INVALID	14:04
BLANK TEST	0.000	14:05
SUBJECT SAMPLE (Vol=2.0L)	INVALID	14:05
BLANK TEST	0.000	14:06
SUBJECT SAMPLE (Vol=1.9L)	INVALID	14:06
BLANK TEST	0.000	14:07
SUBJECT SAMPLE (Vol=1.9L)	INVALID	14:07



04/04/2008 14:08

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 121506

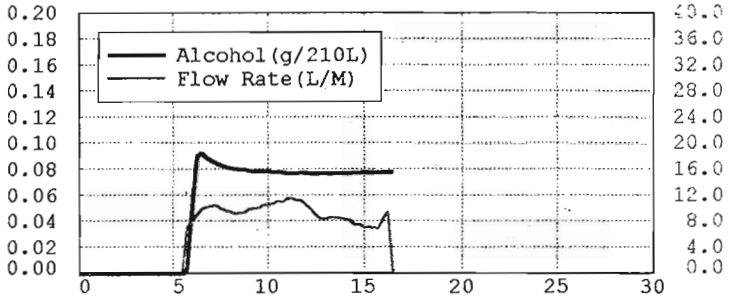
Certification Date: 03/14/2008
Installation Date: 03/14/2008

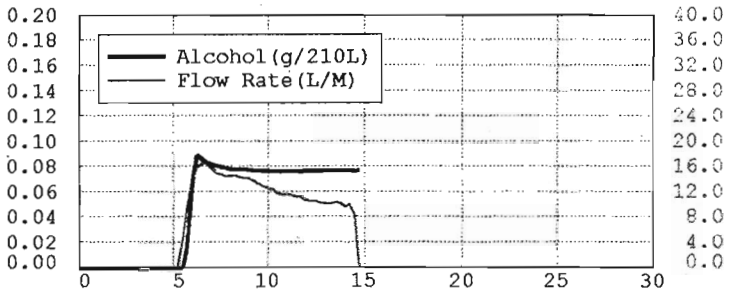
Date: 04/04/2008
Time: 14:08:56

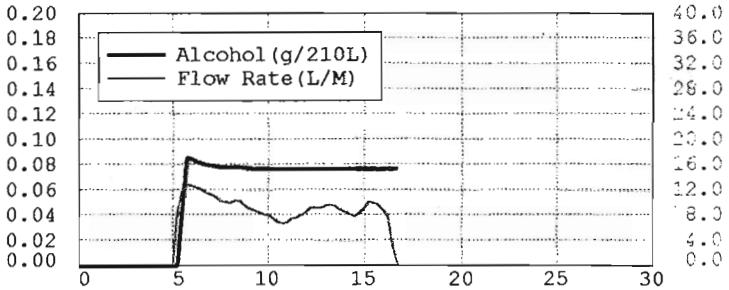
Subject Name: .08 SIM .40 TUBE

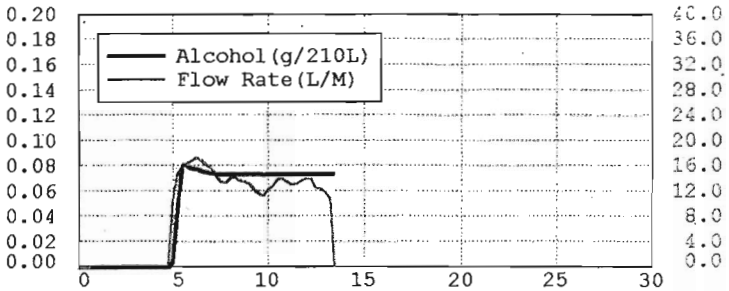
Test Operator Name: H X B
Comment: MOUTH ALC TEST

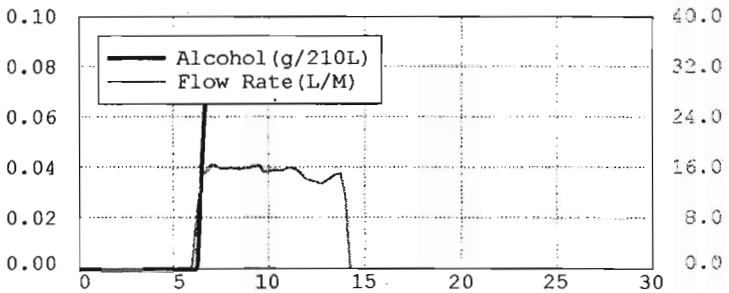
BLANK TEST	0.000	14:09
INTERNAL STANDARD	PASSED	14:09
Xq = 0.1468 (0.55%)		
SUBJECT SAMPLE (Vol=1.6L)	INVALID	14:10
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:11
SUBJECT SAMPLE (Vol=1.8L)	INVALID	14:11
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:12
SUBJECT SAMPLE (Vol=1.7L)	INVALID	14:12
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:13
SUBJECT SAMPLE (Vol=1.9L)	INVALID	14:13
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:14
SUBJECT SAMPLE (Vol=1.9L)	INVALID	14:14
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:15
SUBJECT SAMPLE (Vol=1.7L)	0.070	14:15
X[1] = 0.0707 (-0.0004) (0.0014)		

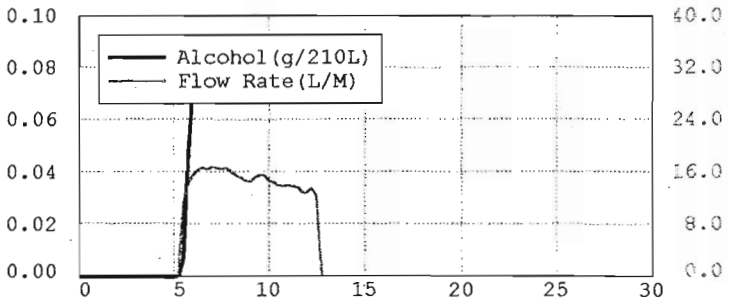












04/04/2008 15:33

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 121506

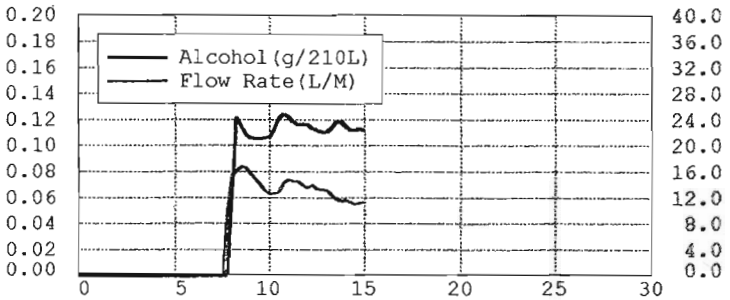
Certification Date: 03/14/2008
Installation Date: 03/14/2008

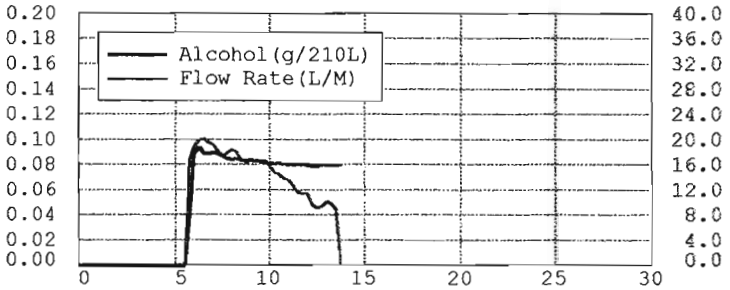
Date: 04/08/2008
Time: 14:30:31

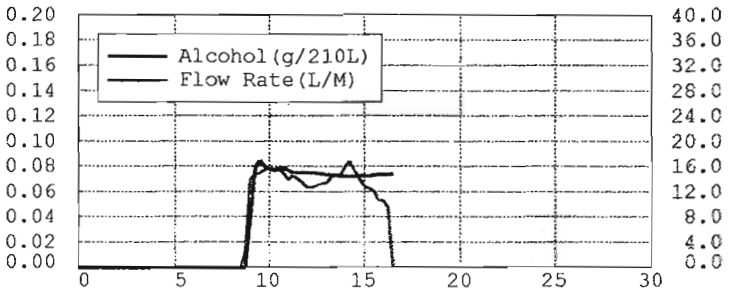
Subject Name: .08 SIM .40 TUBE

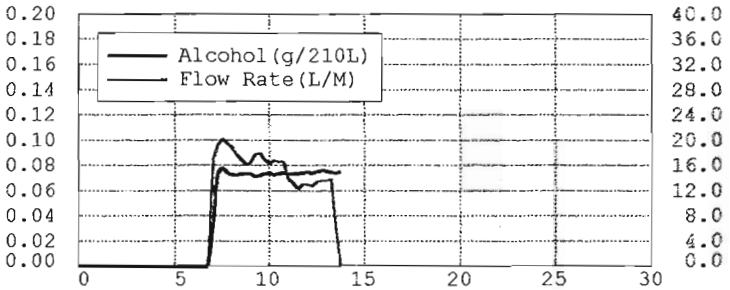
Test Operator Name: D M R
Comment: MOUTH ALC TESTING

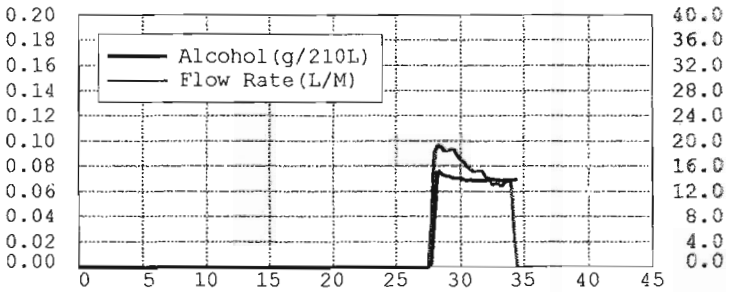
BLANK TEST	0.000	14:31
INTERNAL STANDARD	PASSED	14:31
Xq = 0.1457 (0.25%)		
SUBJECT SAMPLE (Vol=1.6L)	INVALID	14:31
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:32
SUBJECT SAMPLE (Vol=1.9L)	INVALID	14:33
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:33
SUBJECT SAMPLE (Vol=1.7L)	INVALID	14:34
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:35
SUBJECT SAMPLE (Vol=1.7L)	0.074	14:35
X[1] = 0.0744 (0.0003) (0.0013)		
BLANK TEST	0.000	14:36
SUBJECT SAMPLE (Vol=1.6L)	INVALID	14:36
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:37
SUBJECT SAMPLE (Vol=1.8L)	INVALID	14:37
X[1] = 0.0000 (0.0000) (0.0000)		

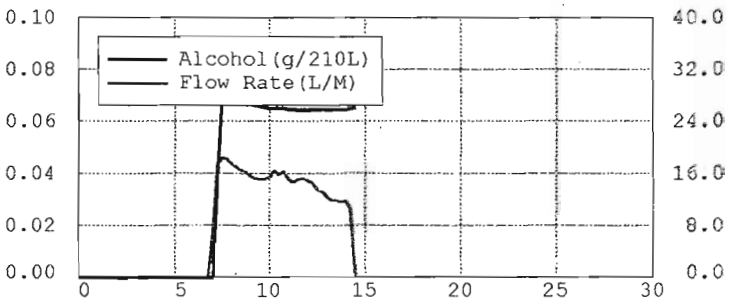












05/19/2008 10:08

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 121506

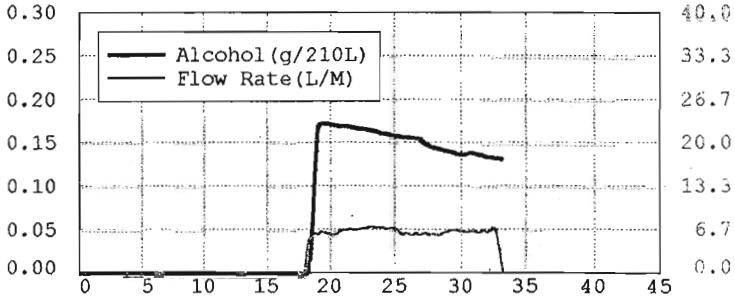
Certification Date: 03/14/2008
Installation Date: 03/14/2008

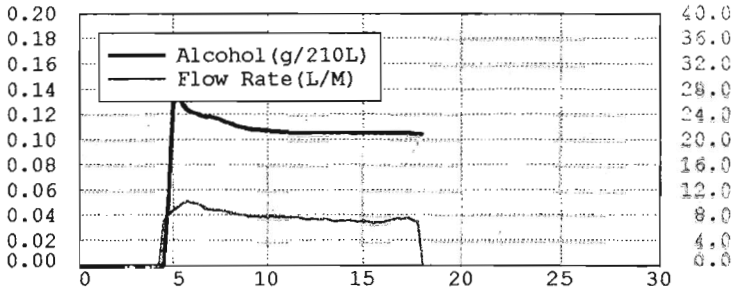
Date: 04/15/2008
Time: 16:22:38

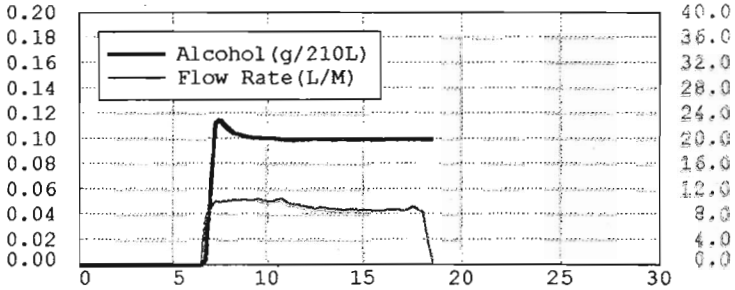
Subject Name: .08 SIM .40 TUBE

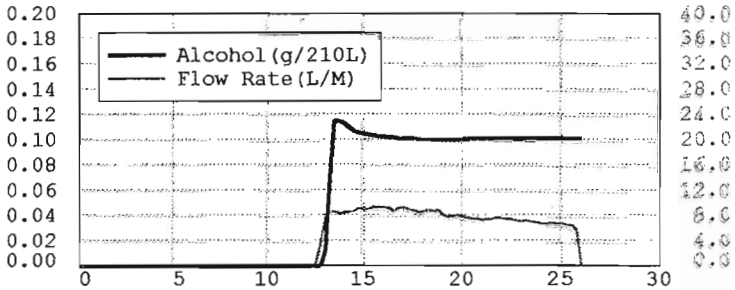
Test Operator Name: RJD
Comment: MOUTH ALC TESTING

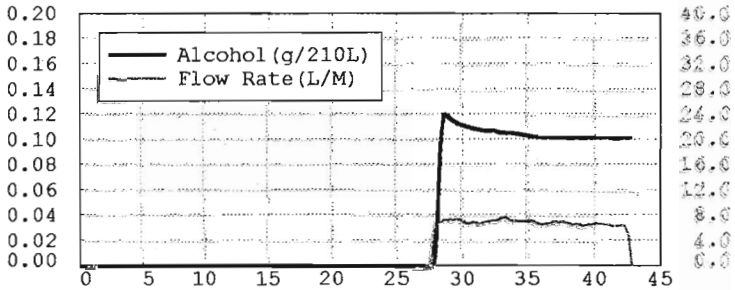
BLANK TEST	0.000	16:23
INTERNAL STANDARD	PASSED	16:23
SUBJECT SAMPLE (Vol=1.5L)	INVALID	16:24
BLANK TEST	0.000	16:25
SUBJECT SAMPLE (Vol=1.7L)	INVALID	16:25
BLANK TEST	0.000	16:26
SUBJECT SAMPLE (Vol=1.7L)	INVALID	16:27
BLANK TEST	0.000	16:27
SUBJECT SAMPLE (Vol=1.7L)	INVALID	16:28
BLANK TEST	0.000	16:29
SUBJECT SAMPLE (Vol=1.6L)	INVALID	16:30
BLANK TEST	0.000	16:30
SUBJECT SAMPLE (Vol=1.6L)	INVALID	16:31

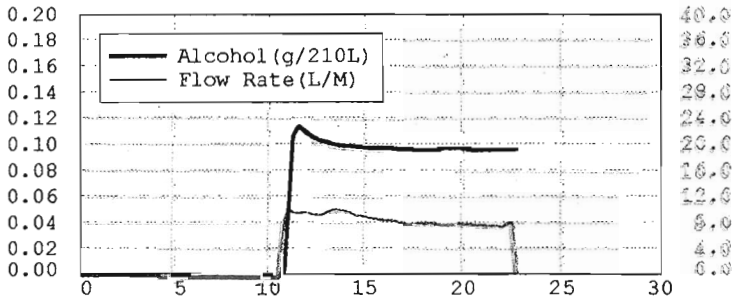












04/15/2008 16:31

Section 7: Temperature Monitoring

This Instrument not tested for this specification

Section 8: Breath Volume

This Instrument not tested for this specification

Section 9: Low Level Accuracy

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

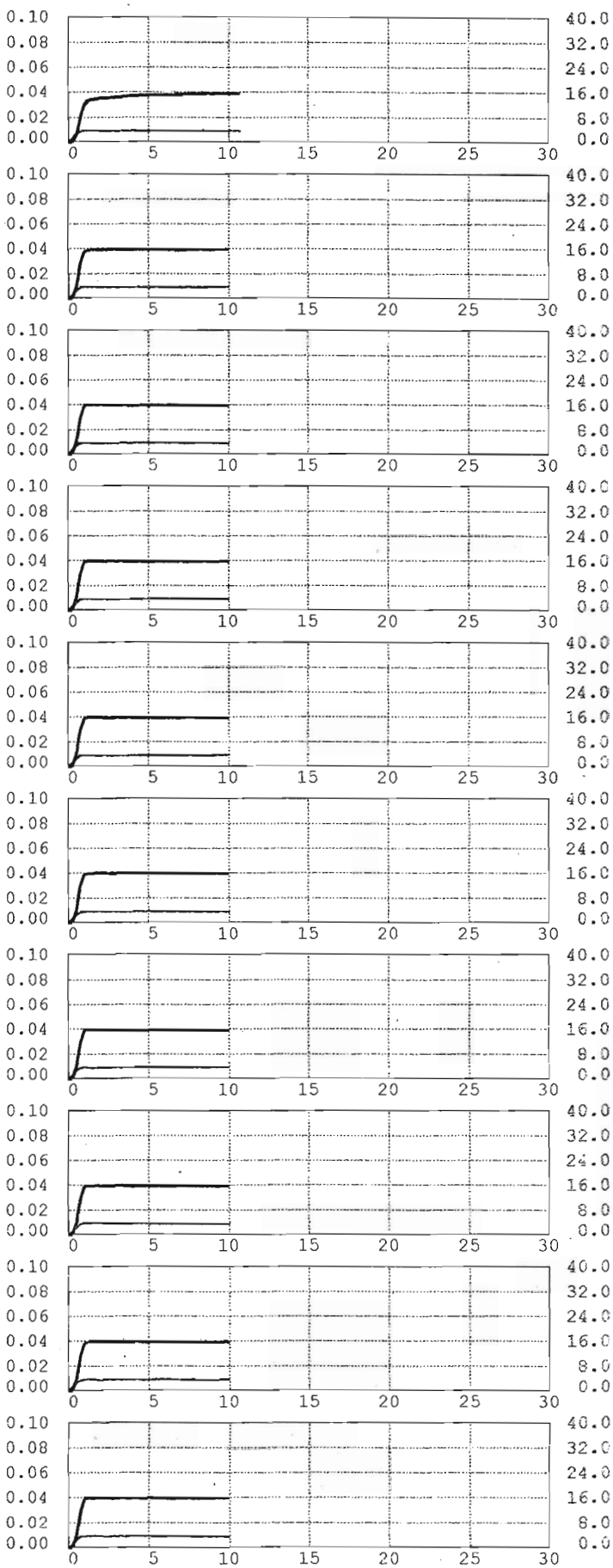
Date: 03/14/2008
Time: 14:06:49

SUPERVISOR NAME: A L B

SOLUTION LOT #: 08-10-040
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	14:07
INTERNAL STANDARD	PASSED	14:07
Xq = 0.1465 (0.31%)		
SIMULATOR VAPOR (33.9°C)	0.039	14:08
X[1] = 0.0390 (-0.0007) (0.0012)		
SIMULATOR VAPOR (33.9°C)	0.039	14:09
X[1] = 0.0396 (-0.0014) (0.0019)		
SIMULATOR VAPOR (33.9°C)	0.039	14:10
X[1] = 0.0397 (-0.0016) (0.0017)		
SIMULATOR VAPOR (33.9°C)	0.039	14:11
X[1] = 0.0395 (-0.0024) (0.0014)		
SIMULATOR VAPOR (33.9°C)	0.039	14:12
X[1] = 0.0396 (-0.0023) (0.0015)		
SIMULATOR VAPOR (33.9°C)	0.040	14:13
X[1] = 0.0402 (-0.0017) (0.0020)		
SIMULATOR VAPOR (33.9°C)	0.039	14:14
X[1] = 0.0394 (-0.0034) (0.0022)		
SIMULATOR VAPOR (33.9°C)	0.039	14:15
X[1] = 0.0396 (-0.0027) (0.0017)		
SIMULATOR VAPOR (34.0°C)	0.039	14:16
X[1] = 0.0397 (-0.0019) (0.0012)		
SIMULATOR VAPOR (33.9°C)	0.039	14:17
X[1] = 0.0399 (-0.0020) (0.0016)		
BLANK TEST	0.000	14:17

Average = 0.0391
Std Dev = 0.0003



05/19/2008 09:57

Section 10: Calibration Stability

This Instrument not tested for this specification

Section 11: Error Reports

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

Date: 03/10/2008
Time: 13:46:29

FILTER WHEEL ERROR

ACCURACY AND PRECISION TEST

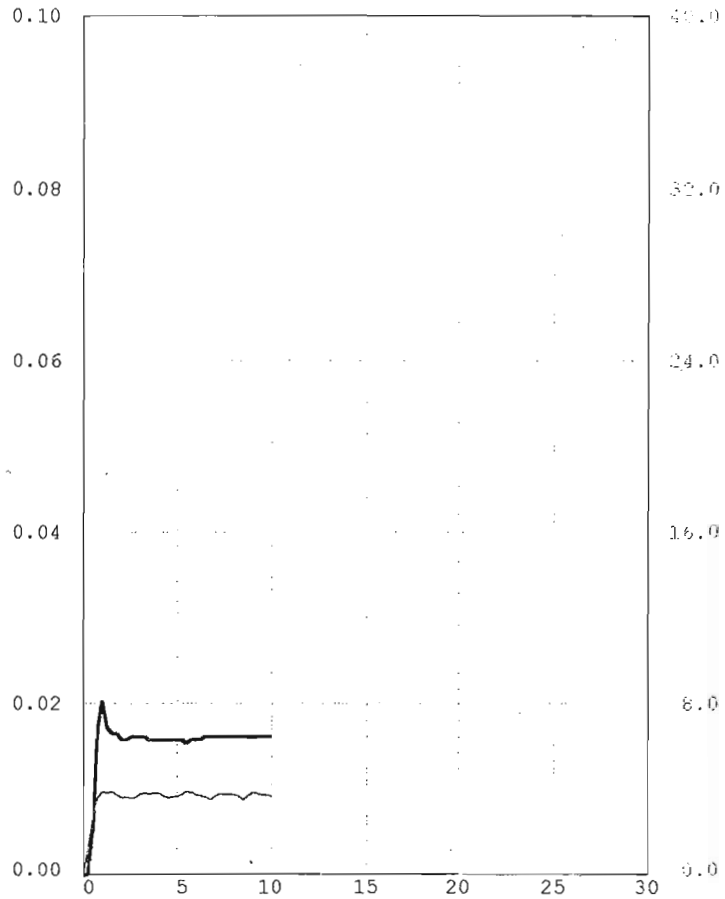
STATE OF VERMONT

DataMaster DMT: 121506

Date: 03/10/2008
Time: 13:50:34

BLANK TEST	0.000	13:51
INTERNAL STANDARD	PASSED	13:51
SIMULATOR VAPOR (34.0°C)	0.017	13:51

FILTER WHEEL ERROR



03/10/2008 13:52

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 121506

Date: 03/14/2008
Time: 13:39:29

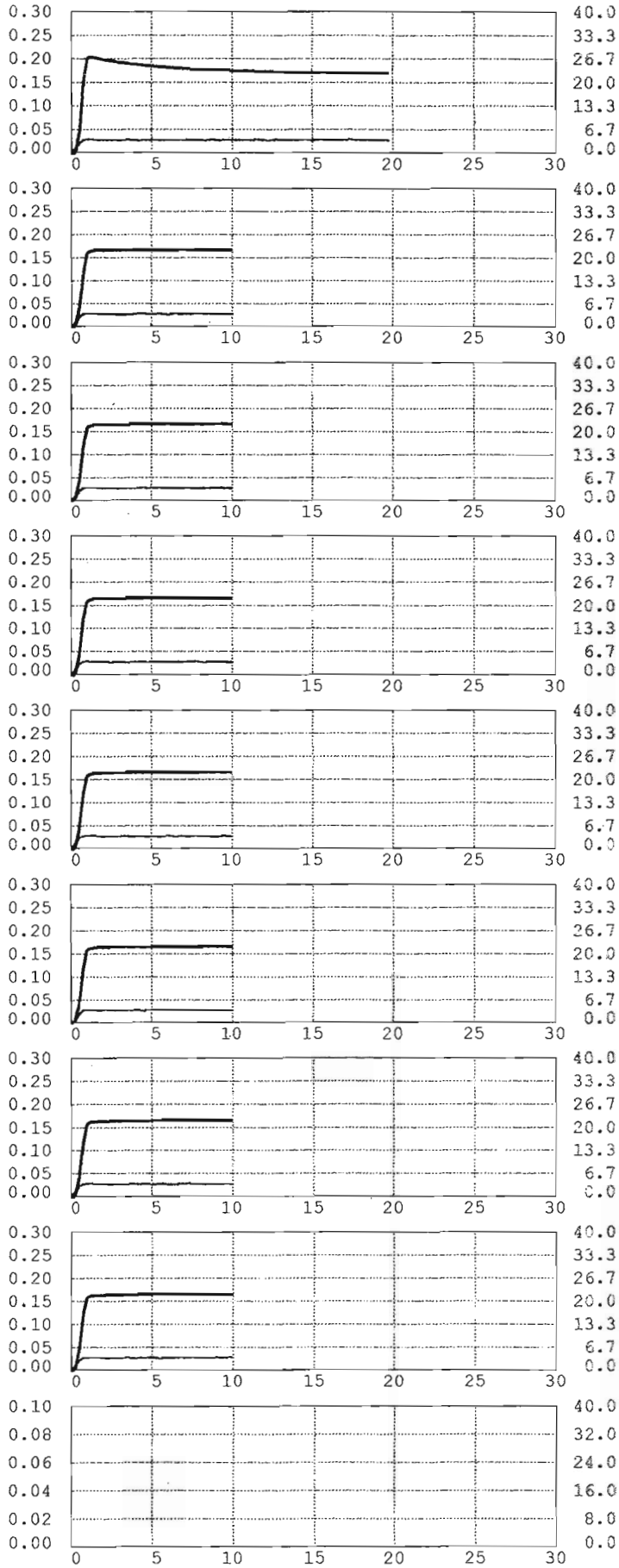
SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

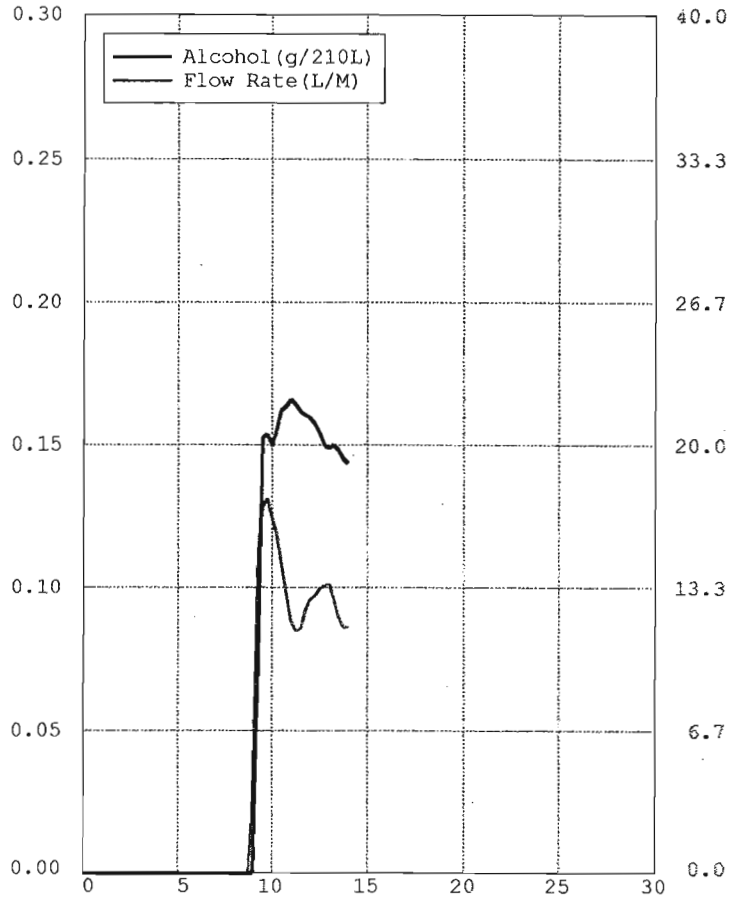
BLANK TEST	0.000	13:40
INTERNAL STANDARD	PASSED	13:40
Xq = 0.1463 (0.18%)		
SIMULATOR VAPOR (33.6°C)	0.169	13:41
X[1] = 0.1691 (-0.0014) (0.0039)		
SIMULATOR VAPOR (33.6°C)	0.166	13:42
X[1] = 0.1664 (-0.0017) (0.0036)		
SIMULATOR VAPOR (33.6°C)	0.166	13:43
X[1] = 0.1664 (-0.0008) (0.0040)		
SIMULATOR VAPOR (33.6°C)	0.165	13:44
X[1] = 0.1659 (-0.0016) (0.0047)		
SIMULATOR VAPOR (33.6°C)	0.165	13:44
X[1] = 0.1659 (-0.0010) (0.0042)		
SIMULATOR VAPOR (33.6°C)	0.165	13:45
X[1] = 0.1659 (-0.0009) (0.0037)		
SIMULATOR VAPOR (33.7°C)	0.165	13:46
X[1] = 0.1657 (-0.0008) (0.0042)		
SIMULATOR VAPOR (33.6°C)	0.165	13:47
X[1] = 0.1654 (-0.0006) (0.0044)		

RFI DETECTED

Unknown RFI Source repeated ALB



05/19/2008 09:56



DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 121506

Certification Date: 03/14/2008
Installation Date: 03/14/2008

Date: 04/08/2008
Time: 14:28:09

Subject Name: .08 SIM .40 TUBE

Test Operator Name: D M R
Comment: MOUTH ALC TESTING

BLANK TEST	0.000	14:29
INTERNAL STANDARD	PASSED	14:29
Xq = 0.1464 (0.24%)		
SUBJECT SAMPLE (Vol=1.1L)	INVALID	14:29
X[1] = 0.0000 (0.0000) (0.0000)		

BLANK ERROR

forgot to disconnect simulator during purge

05/19/2008 10:08

Section 12: Live Subject Tests

This Instrument not tested for this specification

Section 13: Communication Notes

3/10/08
While attempting to perform a power-up test, DMT continued to display filter wheel errors. When trying to diagnose problem, software froze. Restarted unit. Was unable to generate filter wheel error during tech-mode, however filter wheel error occurs whenever certification test is attempted. AES

3/13/08
Replaced detector block assembly with new from NMAS SH 3/13/08

4/3/08
While preparing to run a linearity, the instrument lost communication with the printer while printing the diagnostic report. Closed warning window + attempted to re-print. Displayed "Unable to establish communication link to printer." turned instrument off + on, waited until ready + attempted to print. Instrument printed properly. DMR