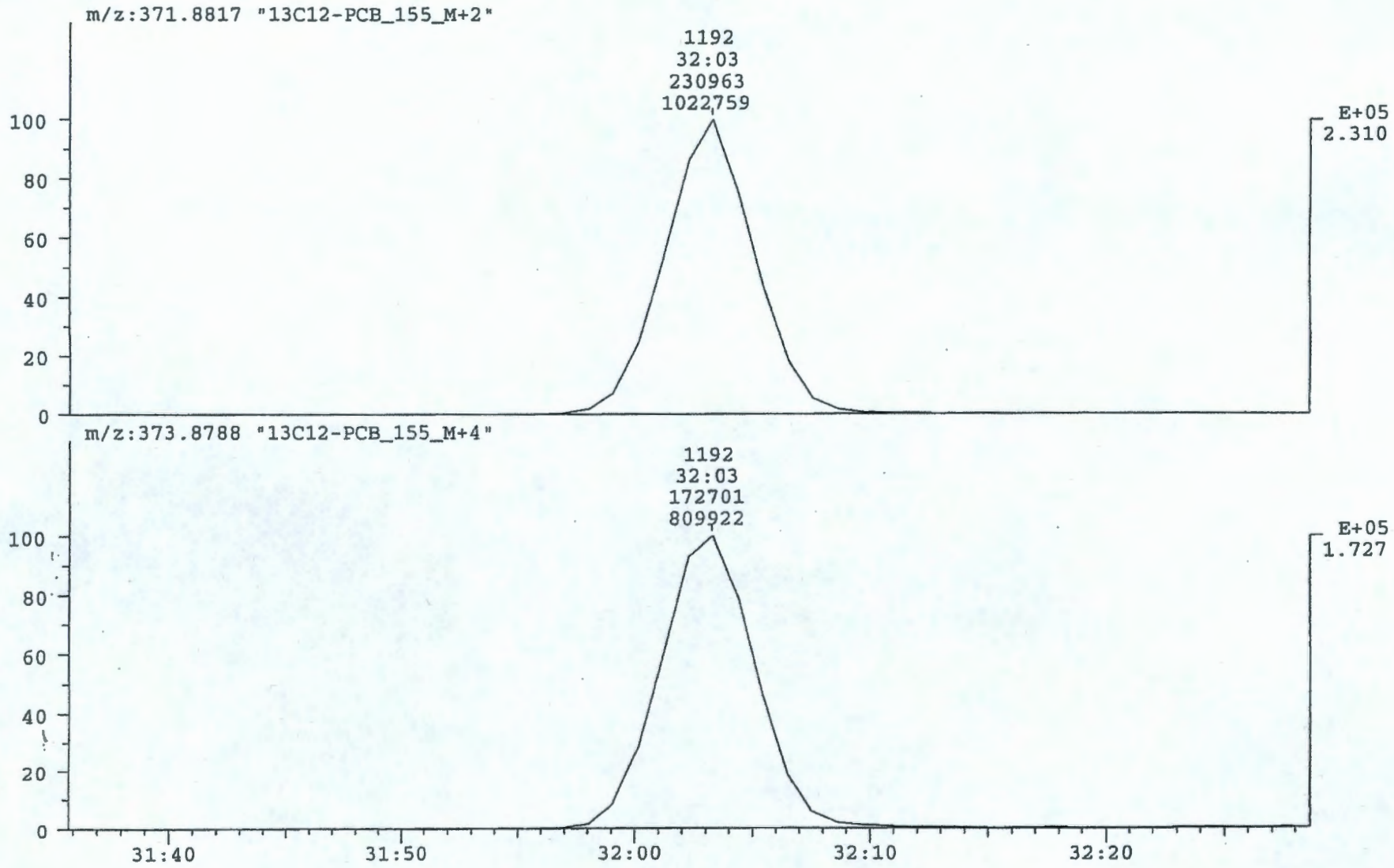
AR TARGET SHEET

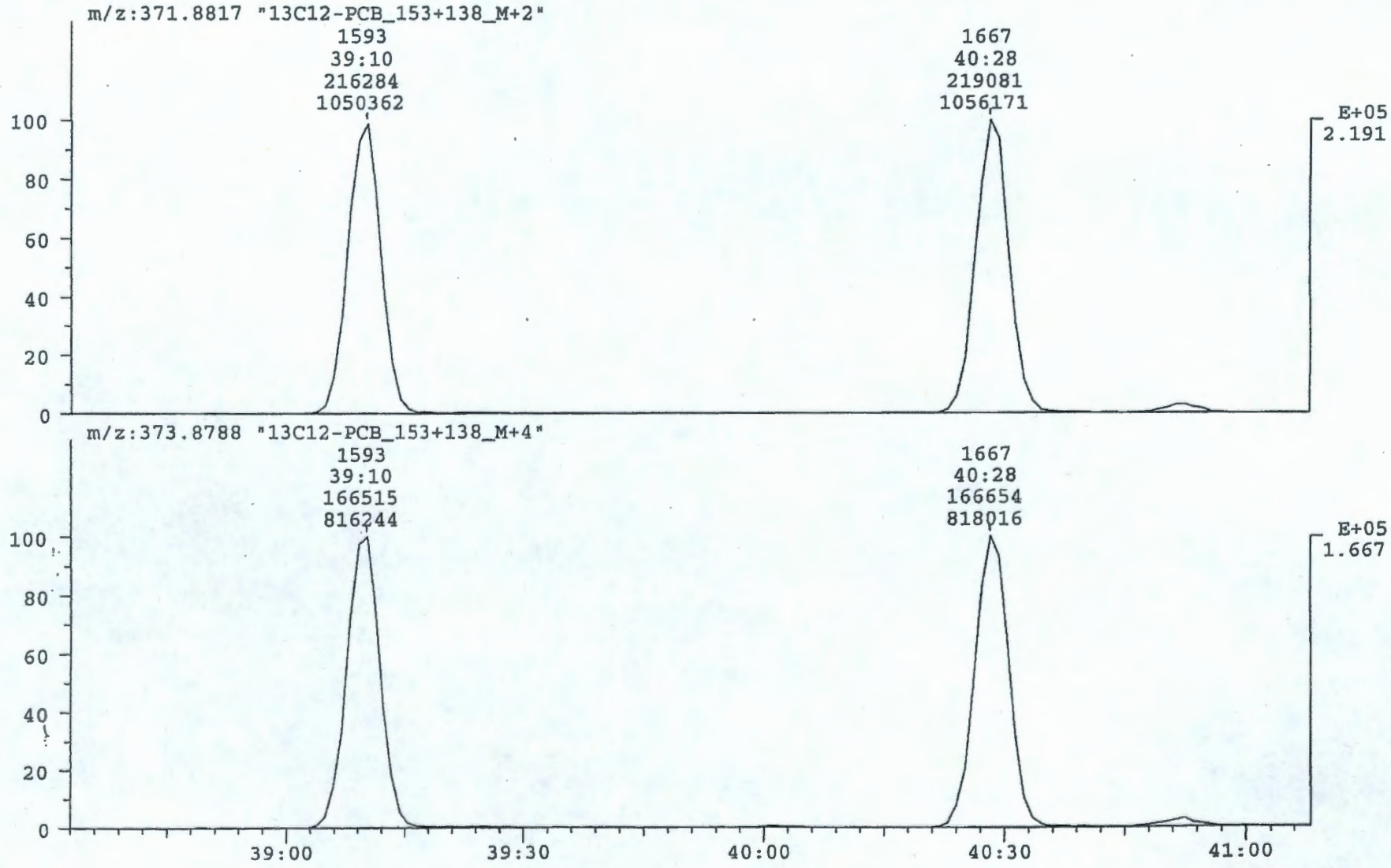
The following document was too large to scan as one unit, therefore, it has been divided into sections.

EDMC#:	0074172
SECTION:	4 OF 5
DOCUMENT #:	J00132
TITLE:	Data Package Summary Analytical Laboratory 100 Area and 300 Area Component of RCBRA Tissues - Resampling

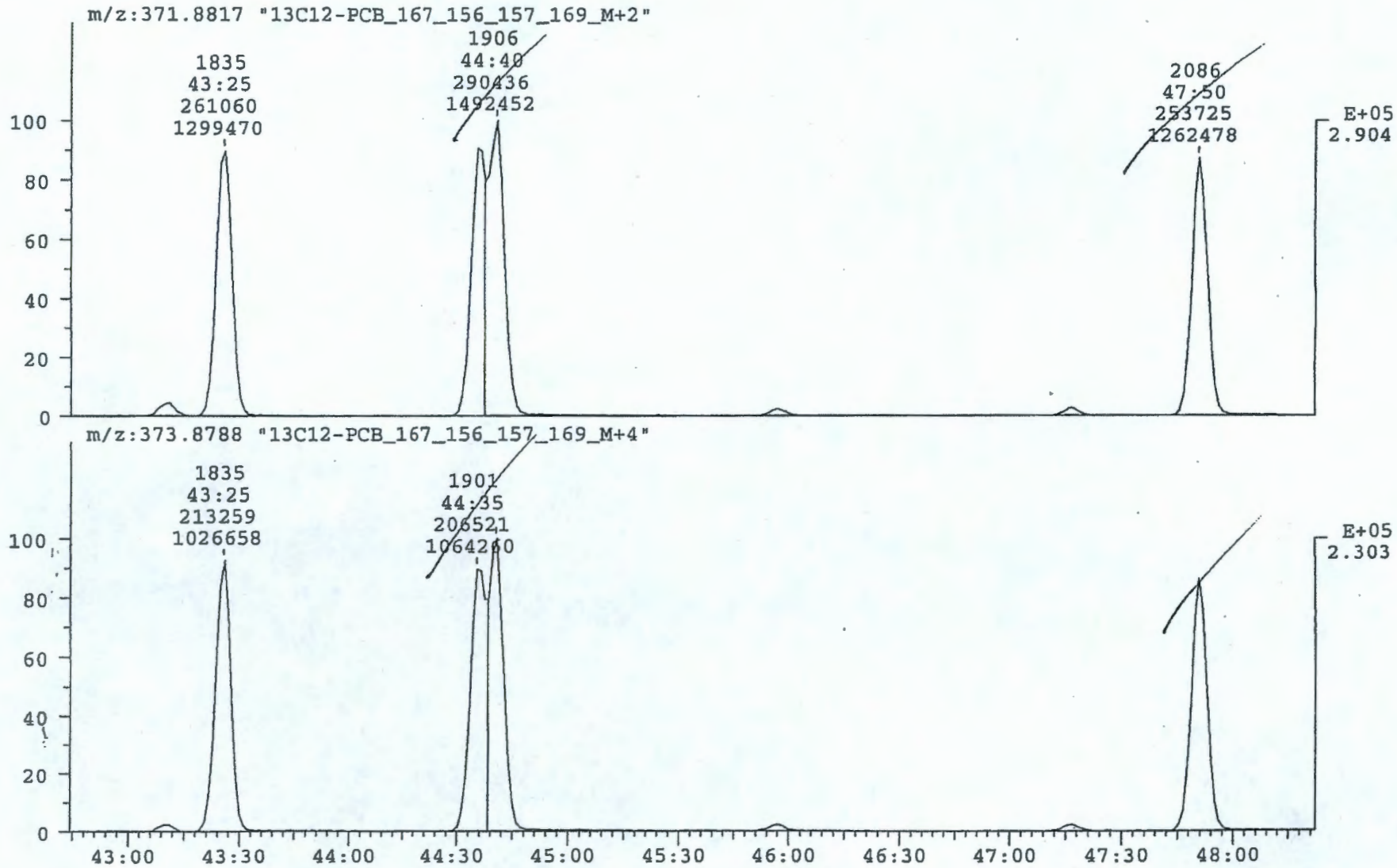
```
CHRO:  a07030741                                07-Mar-07   Elapse:  32:02      1191
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1166 > 1216           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



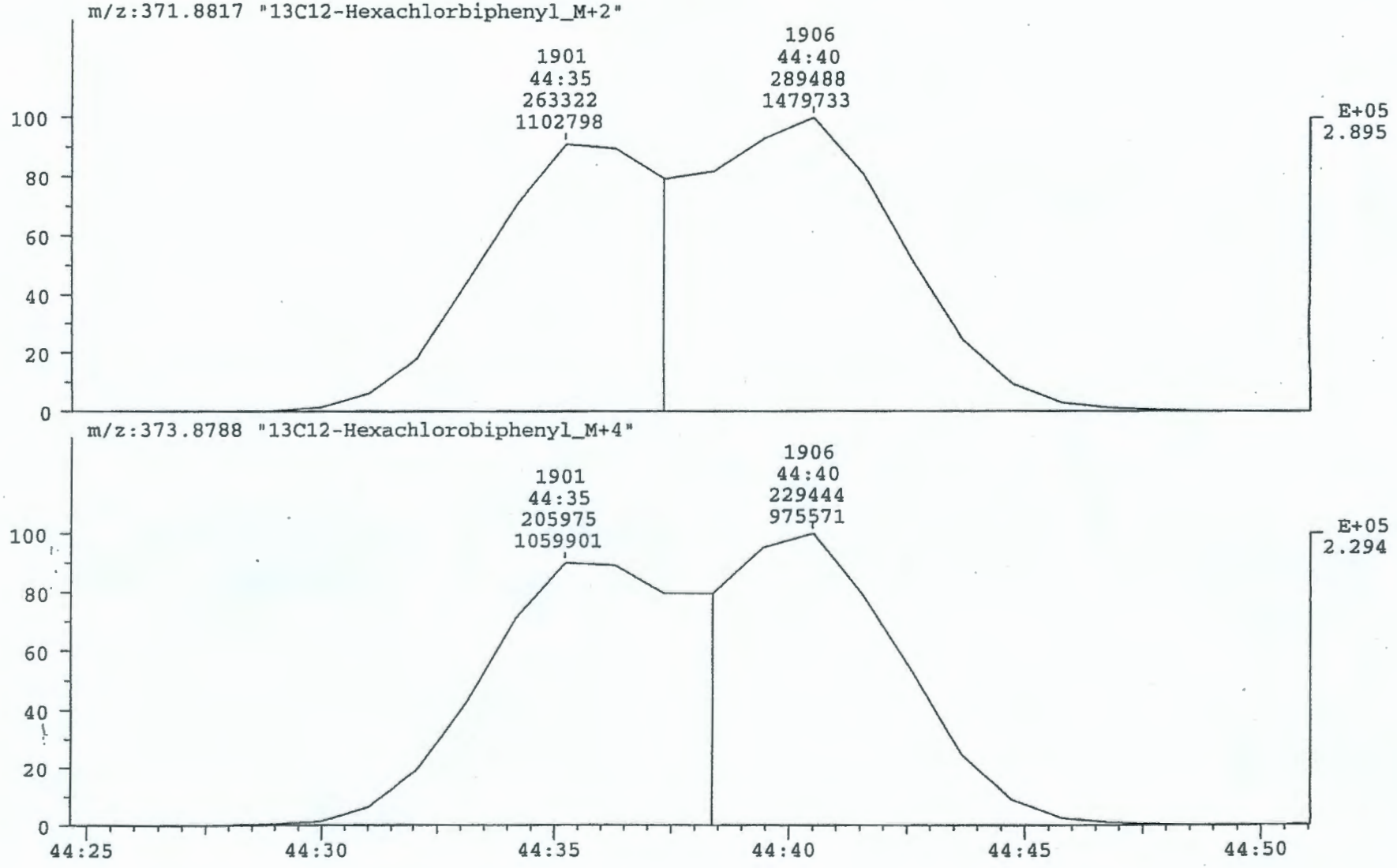
CHRO: a07030741 07-Mar-07 Elapse: 39:50 1631
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1558 > 1705 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



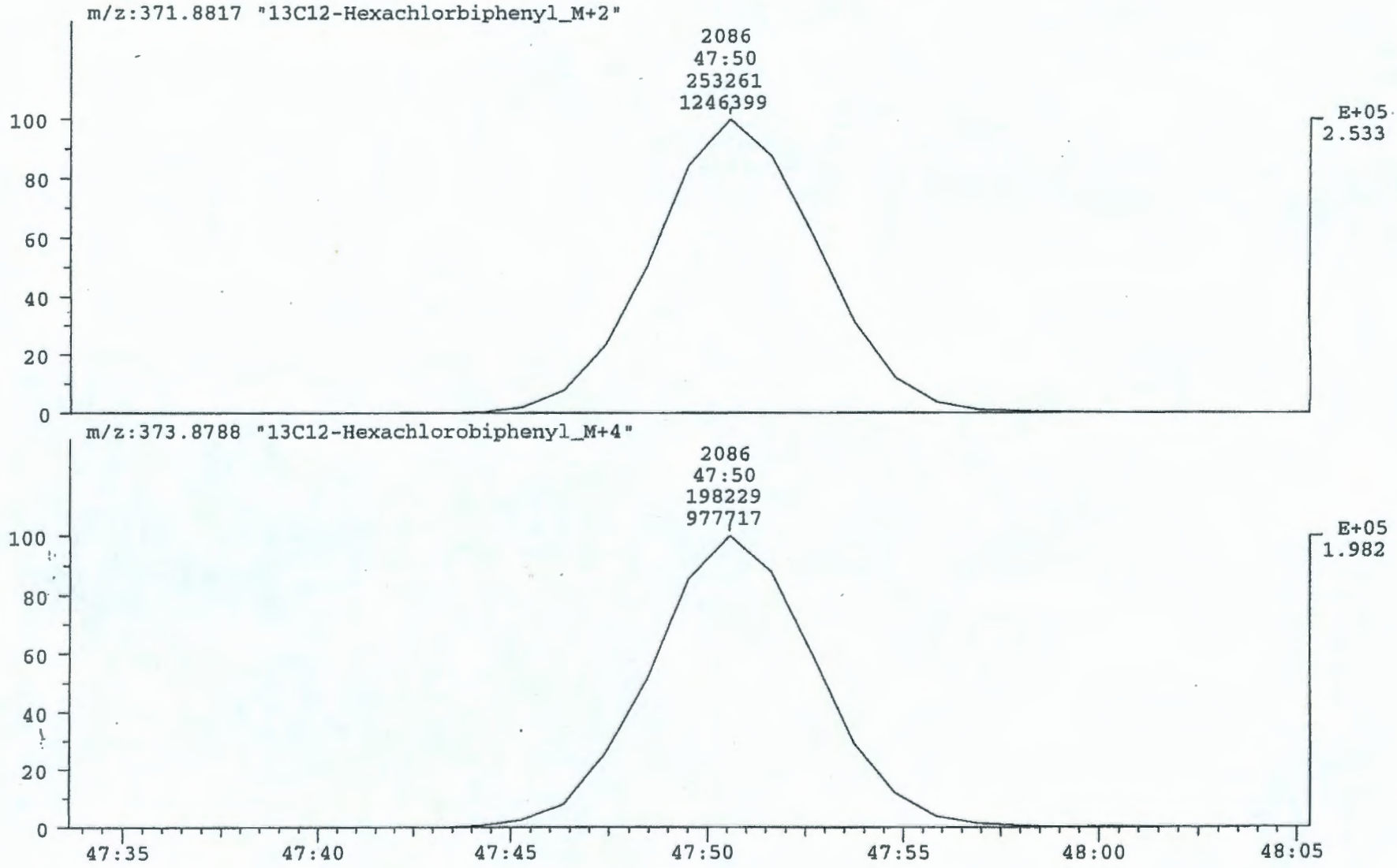
CHRO: a07030741 07-Mar-07 Elapse: 45:38 1961
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt.Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1796 > 2116 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



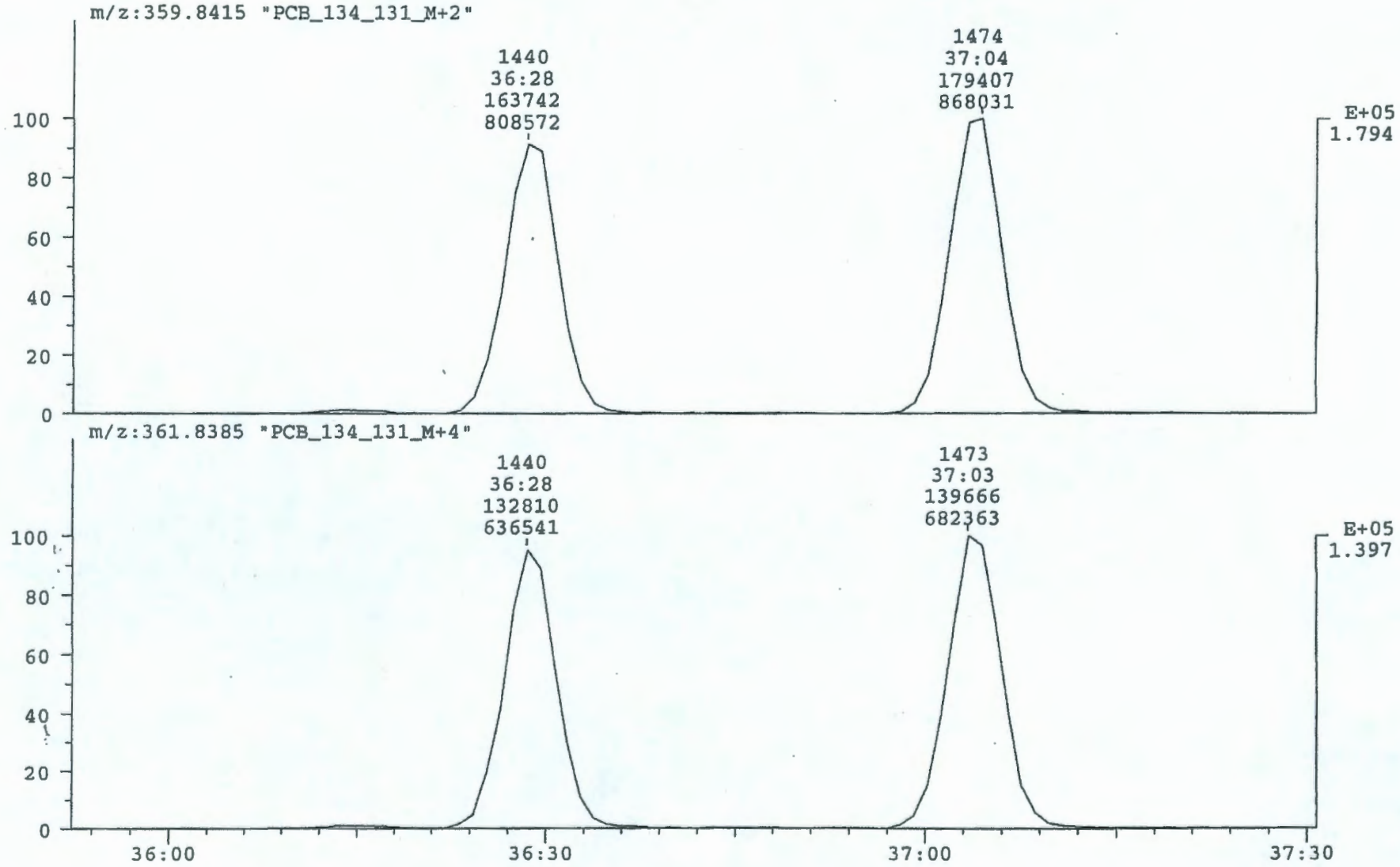
CHRO: a07030741 07-Mar-07 Elapse: 56:10 2555
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1891 > 1916 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



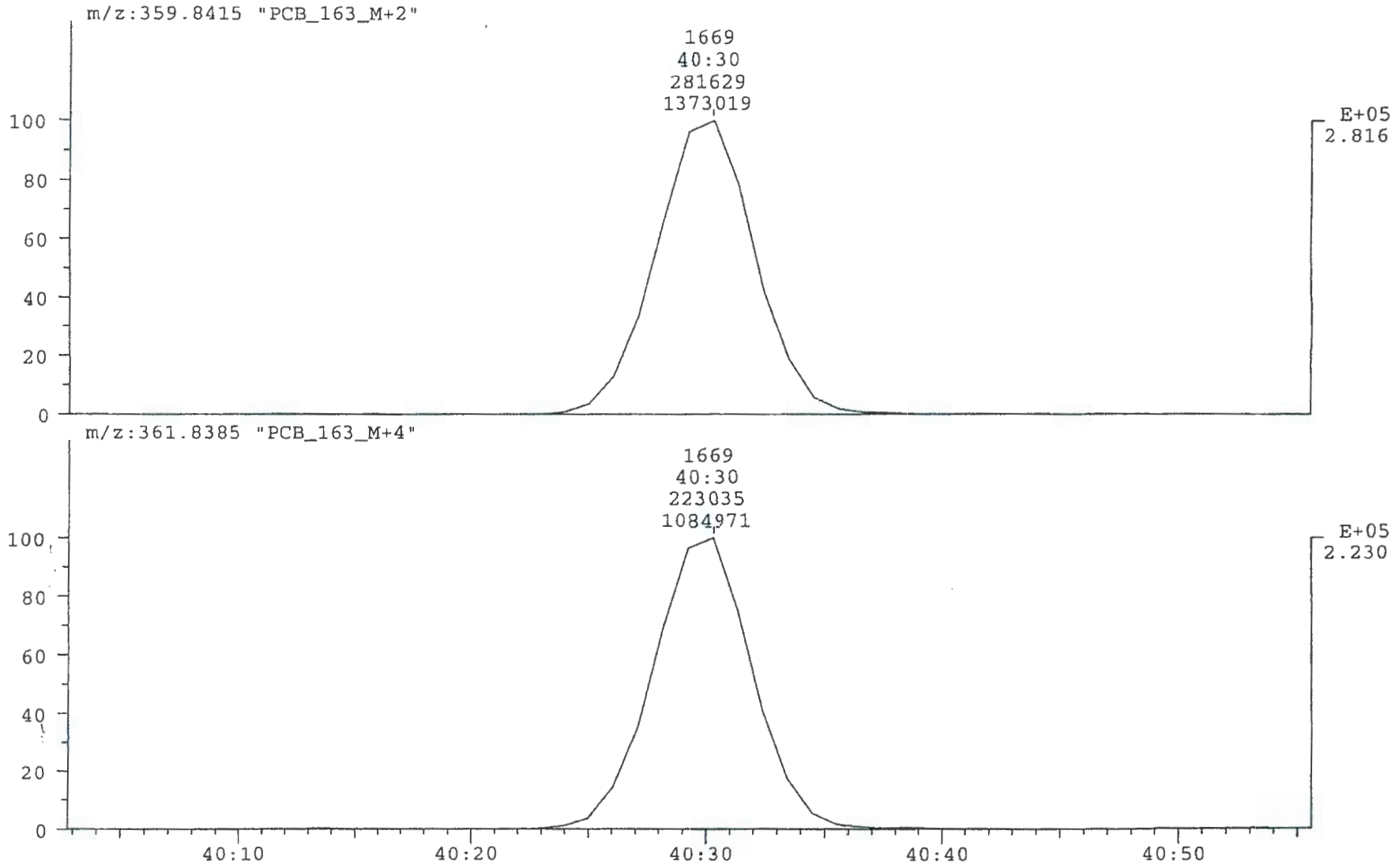
```
CHRO:  a07030741                                07-Mar-07   Elapse:  56:10      2555
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   2070 > 2100           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



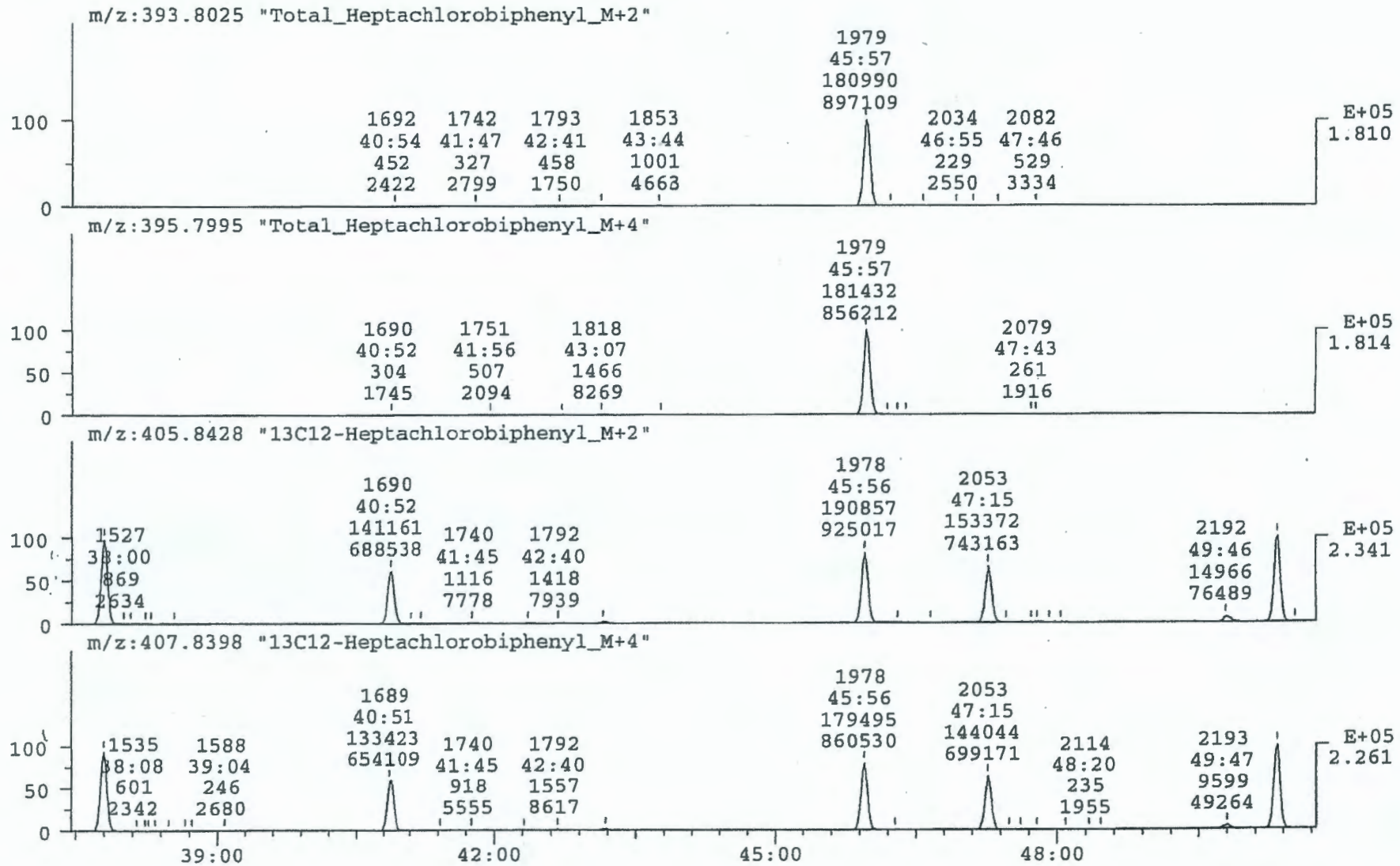
CHRO: a07030741 07-Mar-07 Elapse: 37:04 1474
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1409 > 1499 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



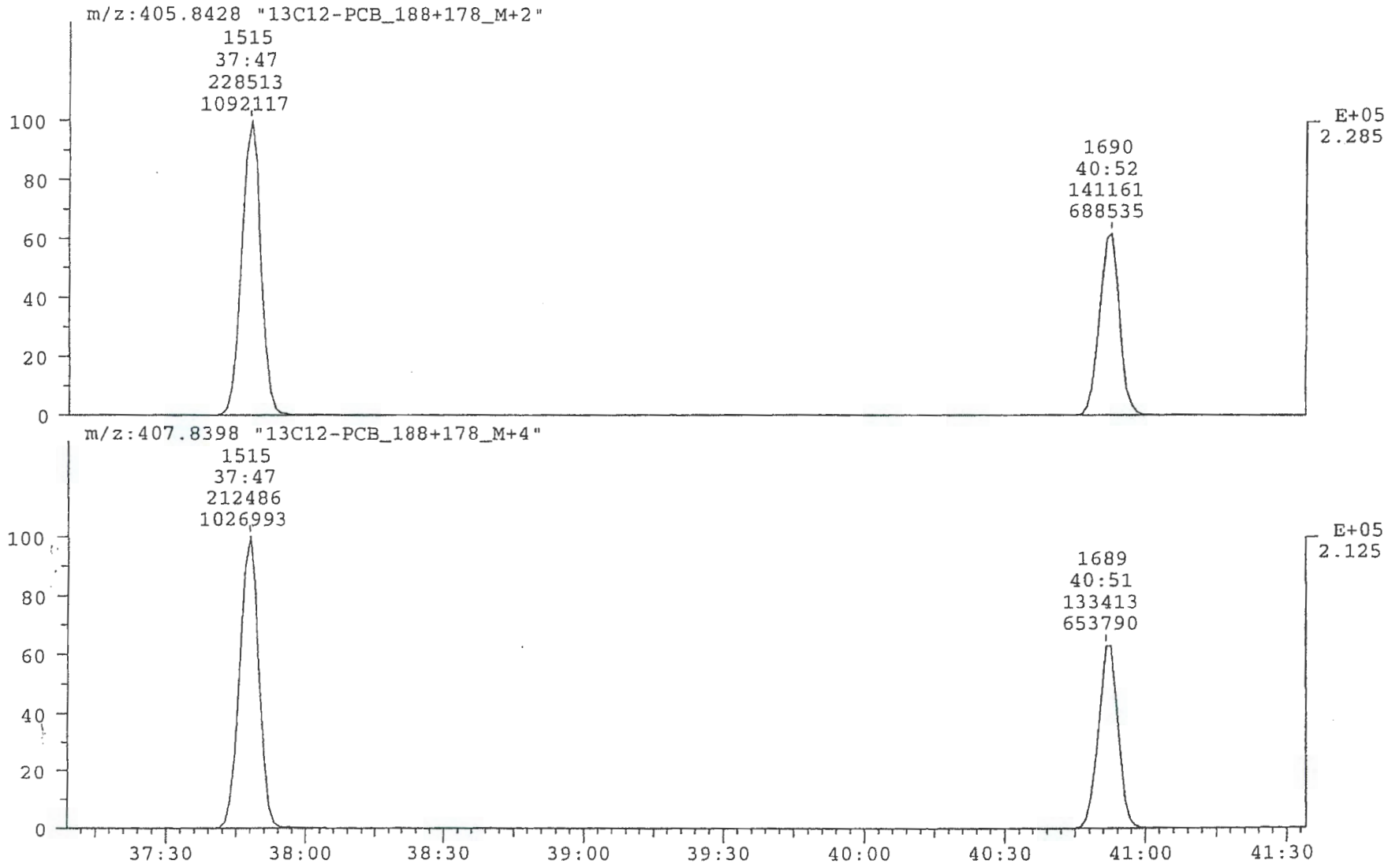
```
CHRO:  a07030741                                07-Mar-07  Elapse:  40:29      1668
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1643 > 1693         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



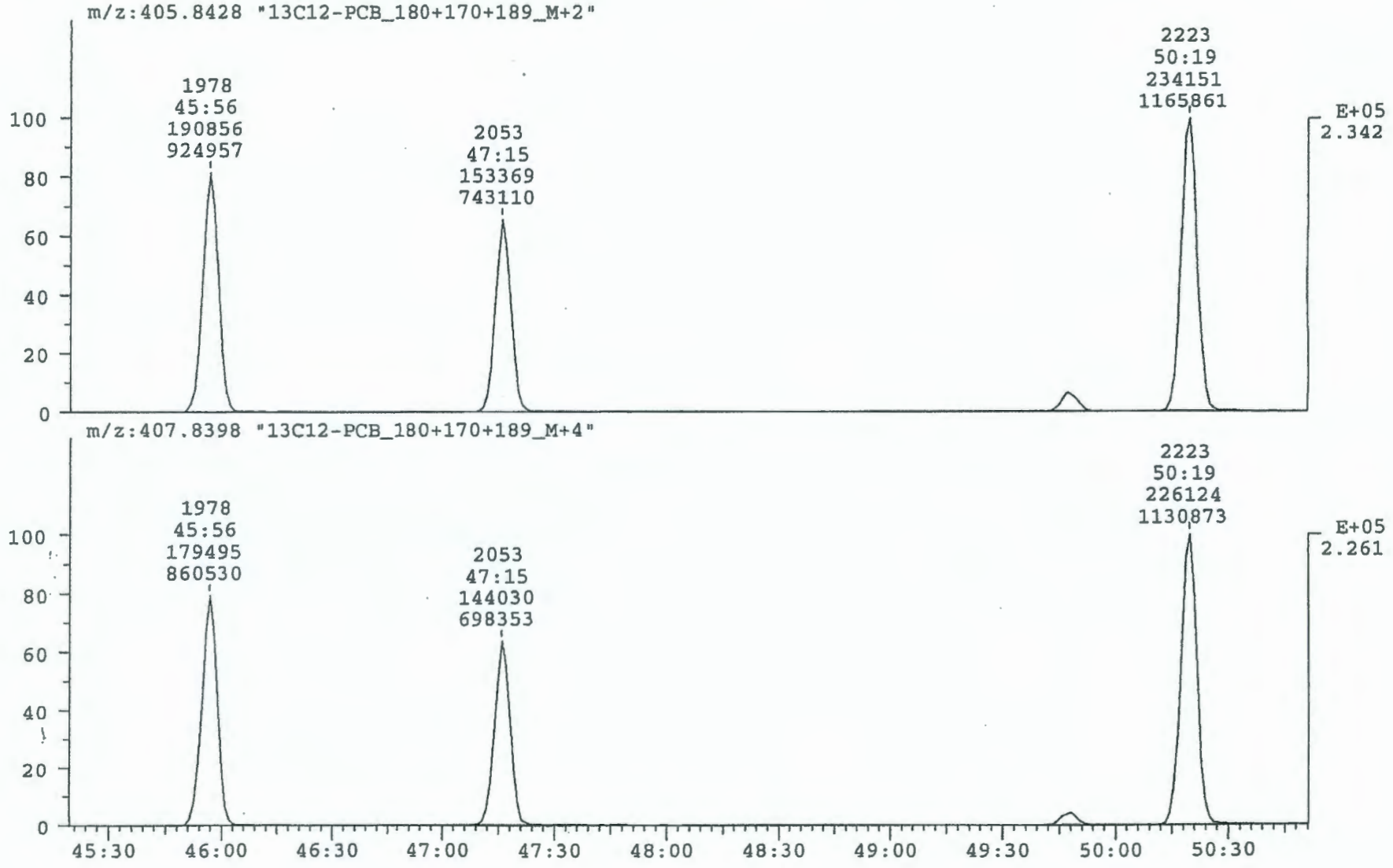
```
CHRO:  a07030741                                07-Mar-07   Elapse:  44:05      1873
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1495 > 2247           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



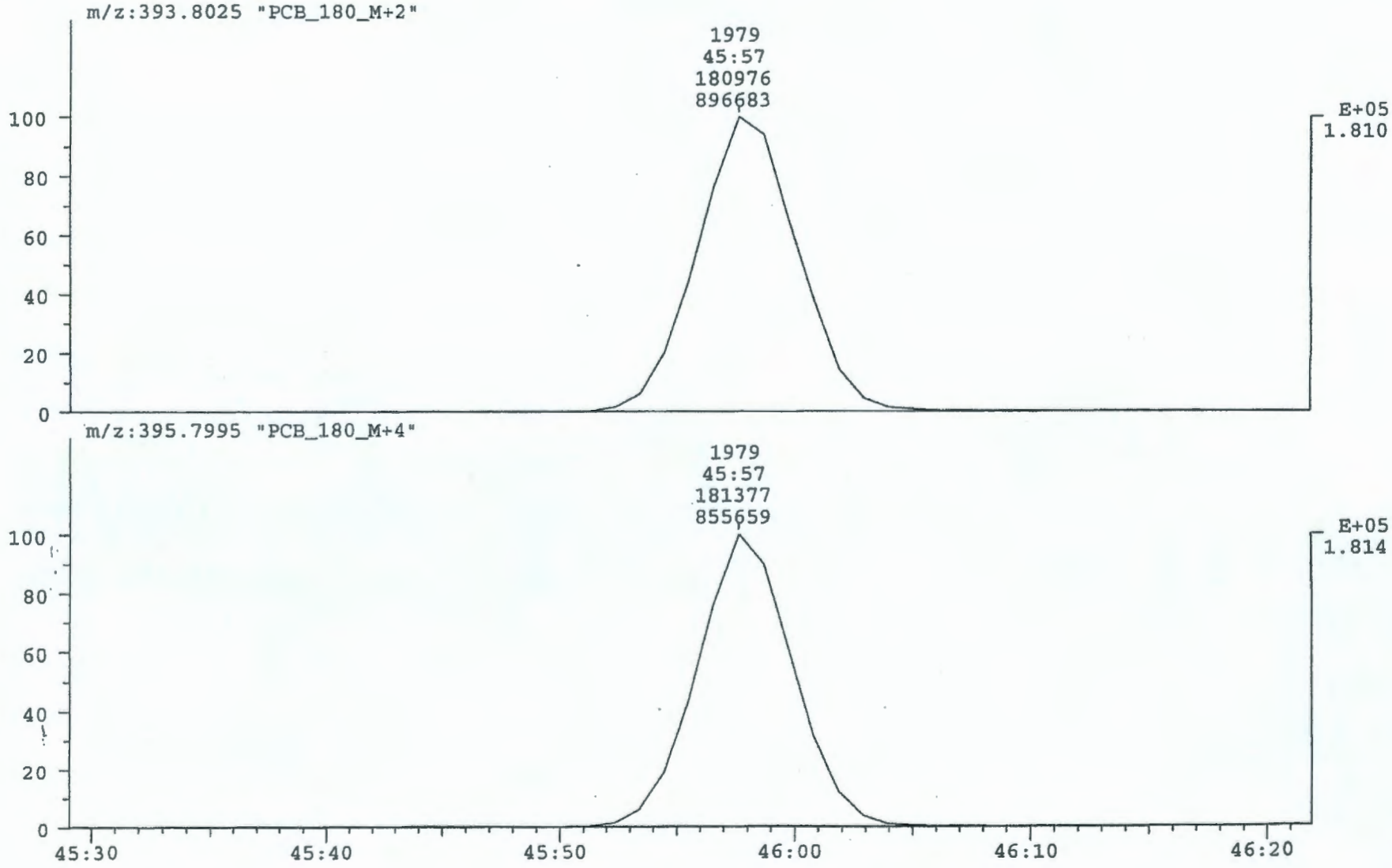
```
CHRO:  a07030741                              07-Mar-07   Elapse:  39:20      1603
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1478 > 1729         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



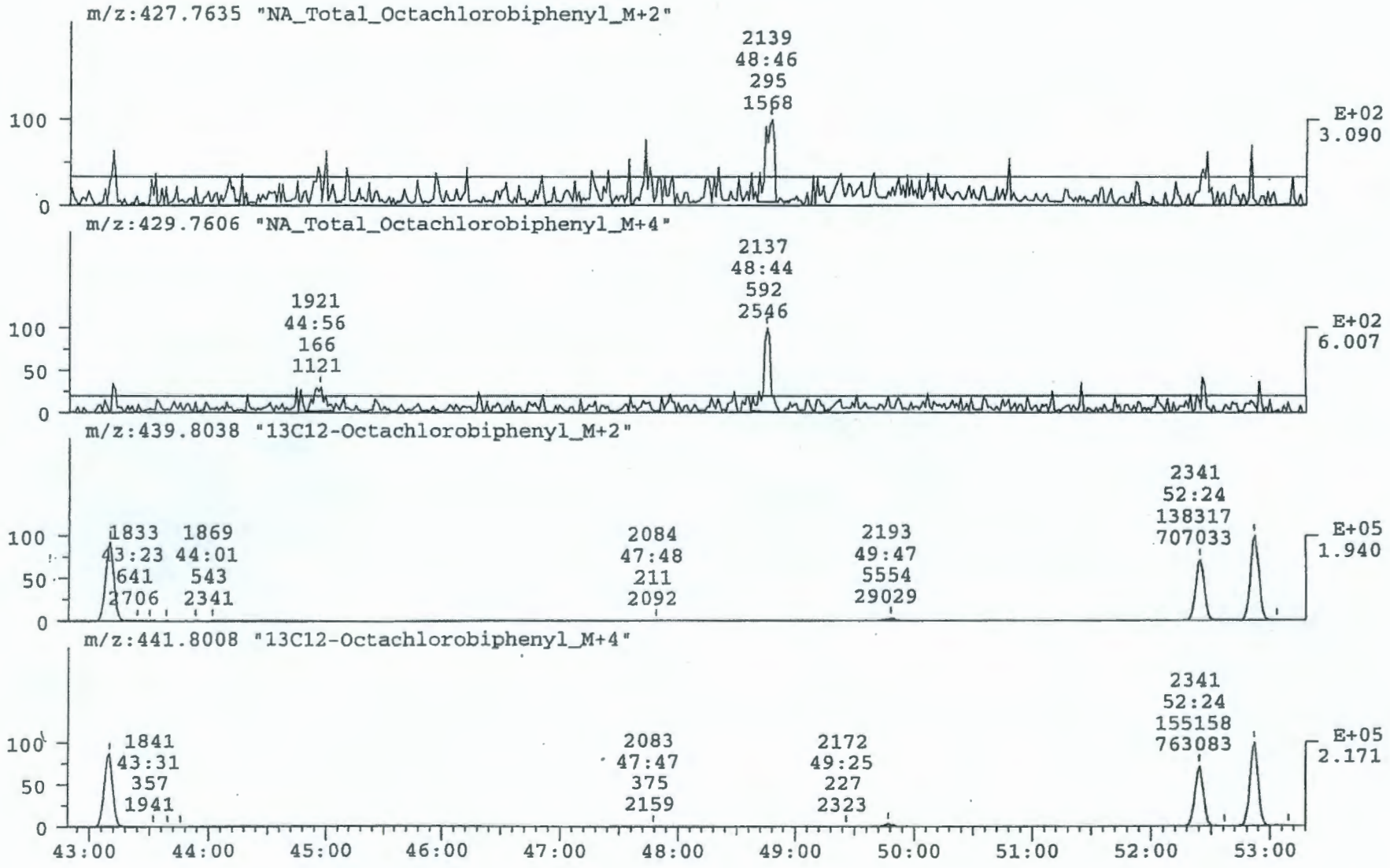
```
CHRO:  a07030741                                07-Mar-07   Elapse:  48:08      2103
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1943 > 2253           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



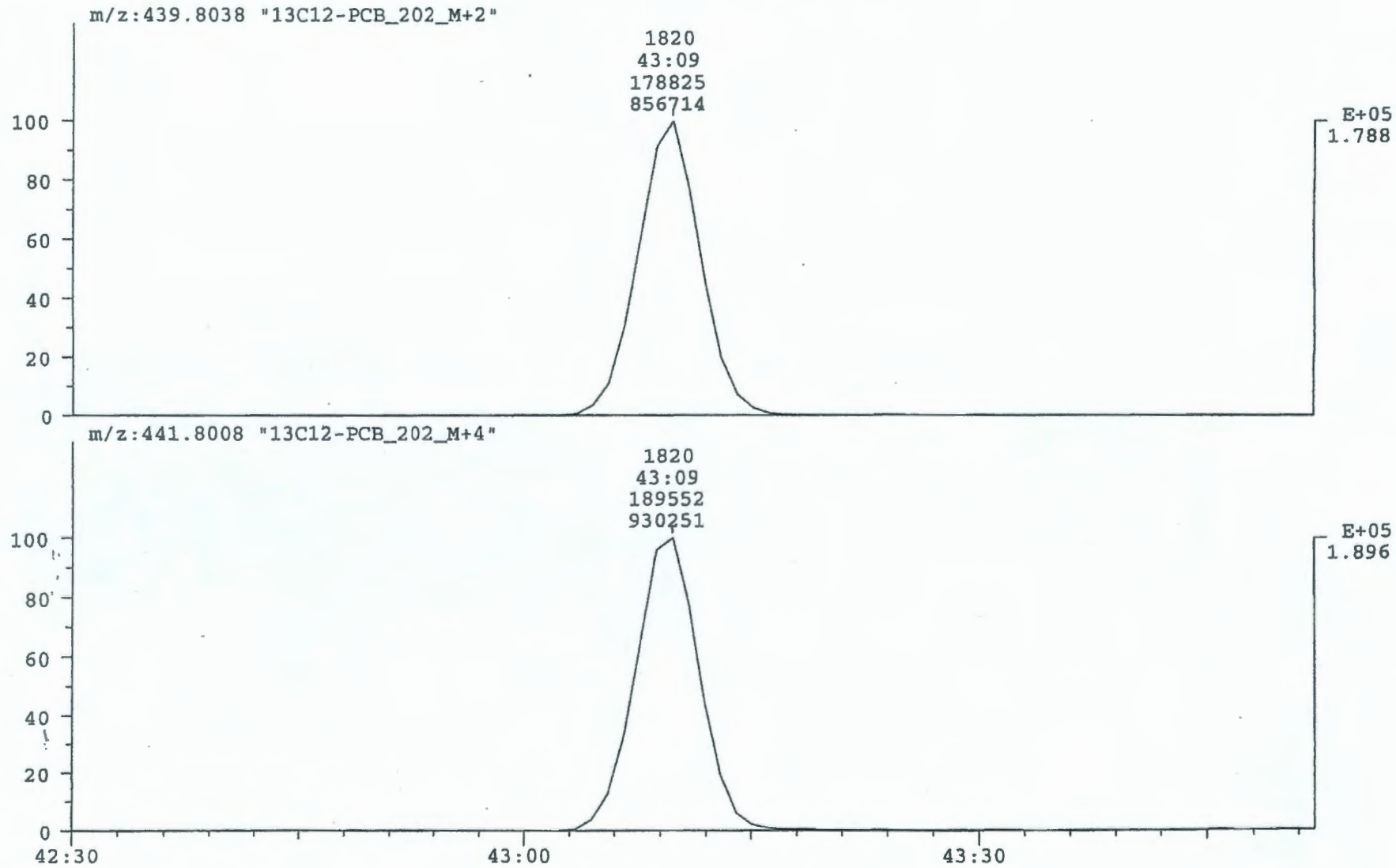
```
CHRO:  a07030741                                07-Mar-07  Elapse:  45:55      1977
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm     Label wndw:  1952 > 2002           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :  100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



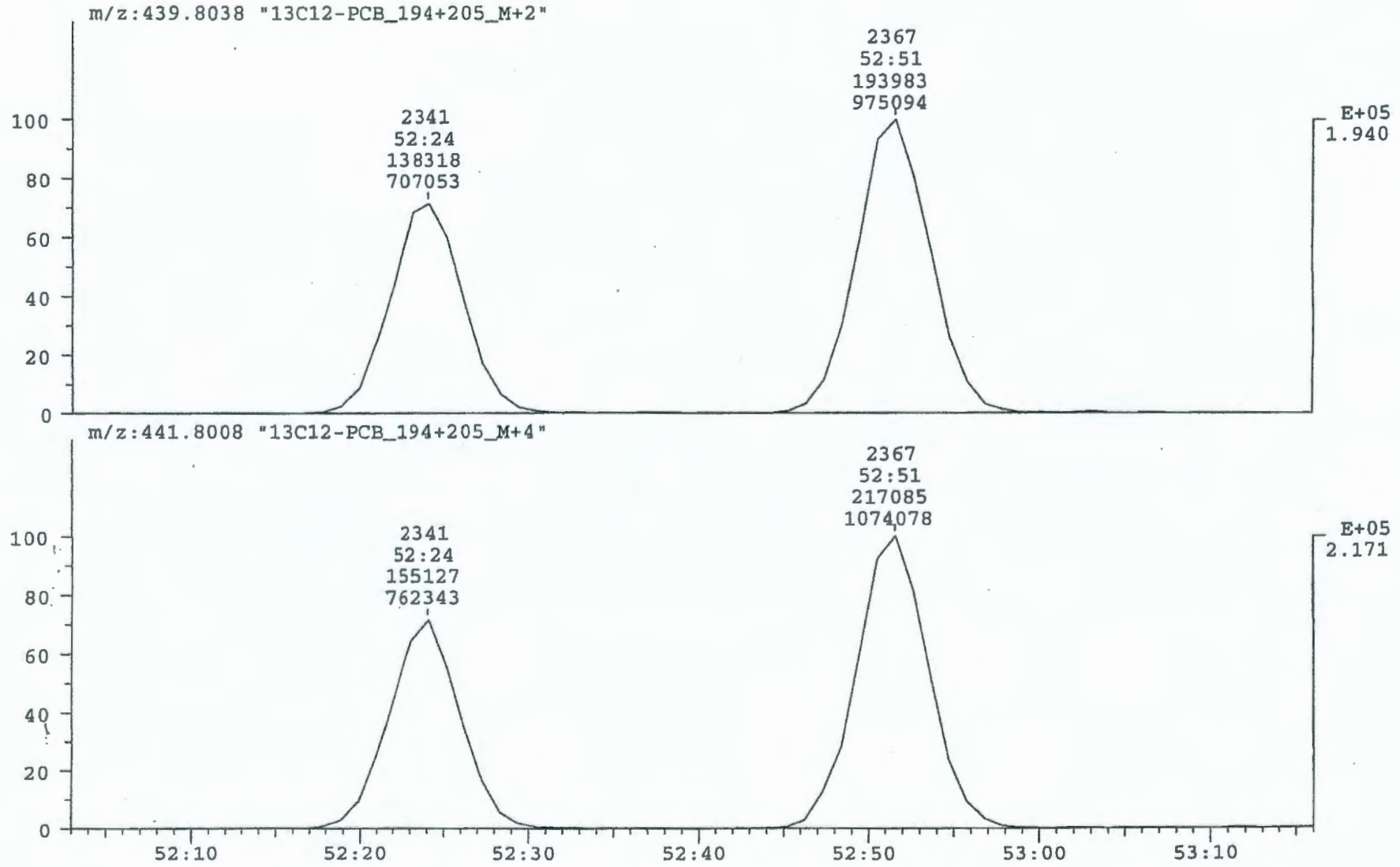
CHRO: a07030741 07-Mar-07 Elapse: 48:03 2098
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1800 > 2392 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



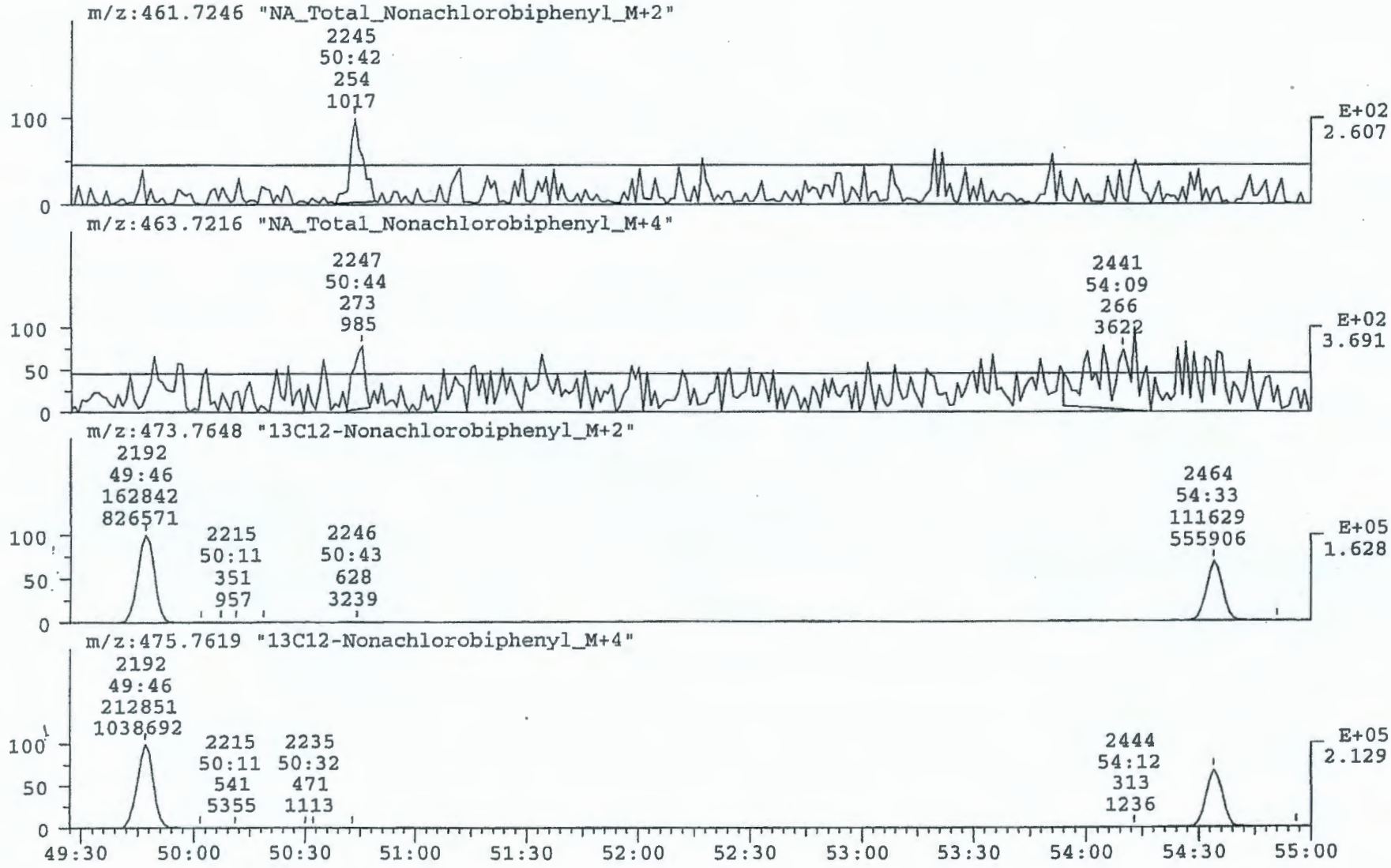
```
CHRO:  a07030741                                07-Mar-07  Elapse:  43:07      1818
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1782 > 1860         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



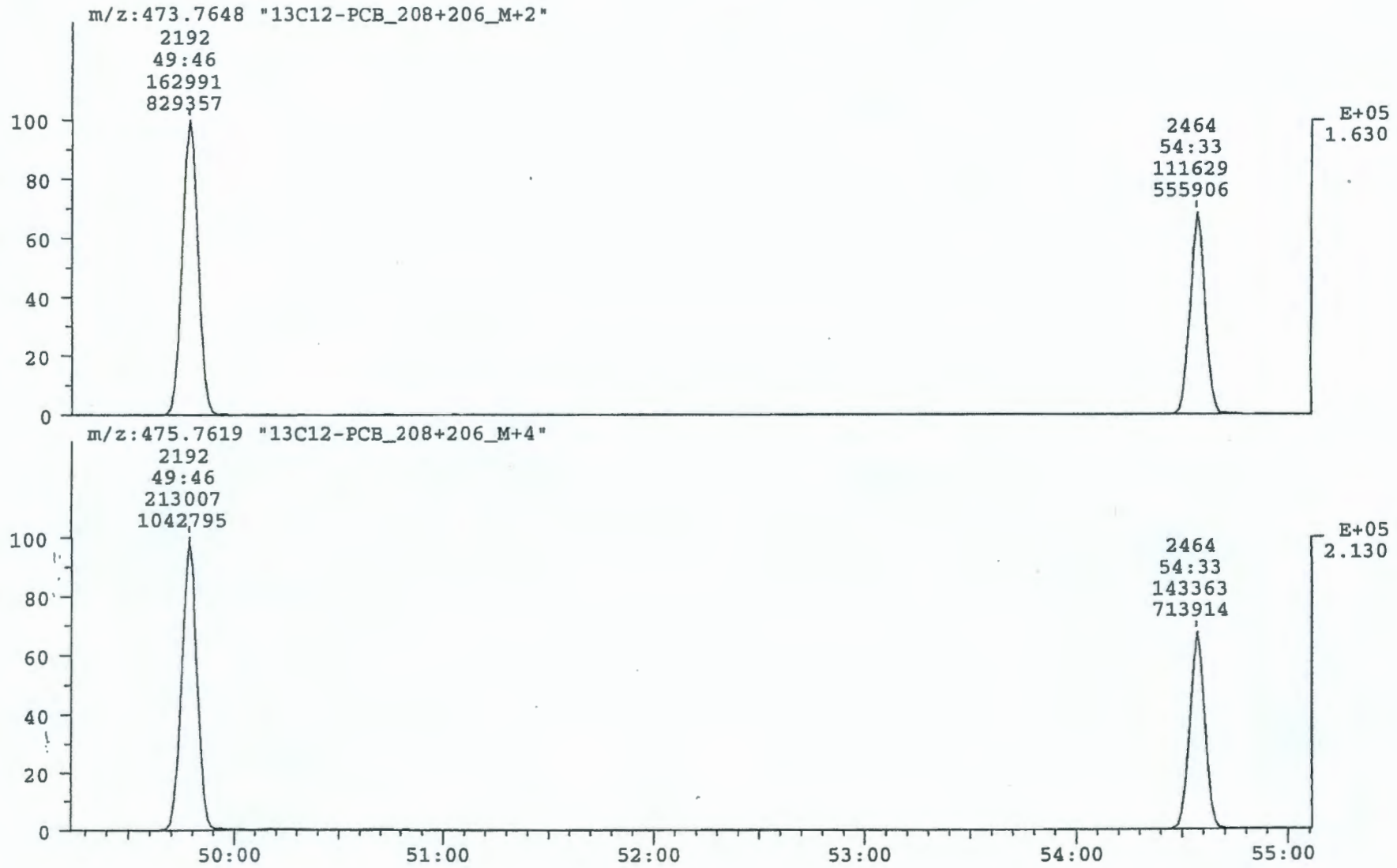
```
CHRO:  a07030741                                07-Mar-07   Elapse:  52:38      2355
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   6
Peak:  100.00  ppm     Label wndw:   2321 > 2390            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



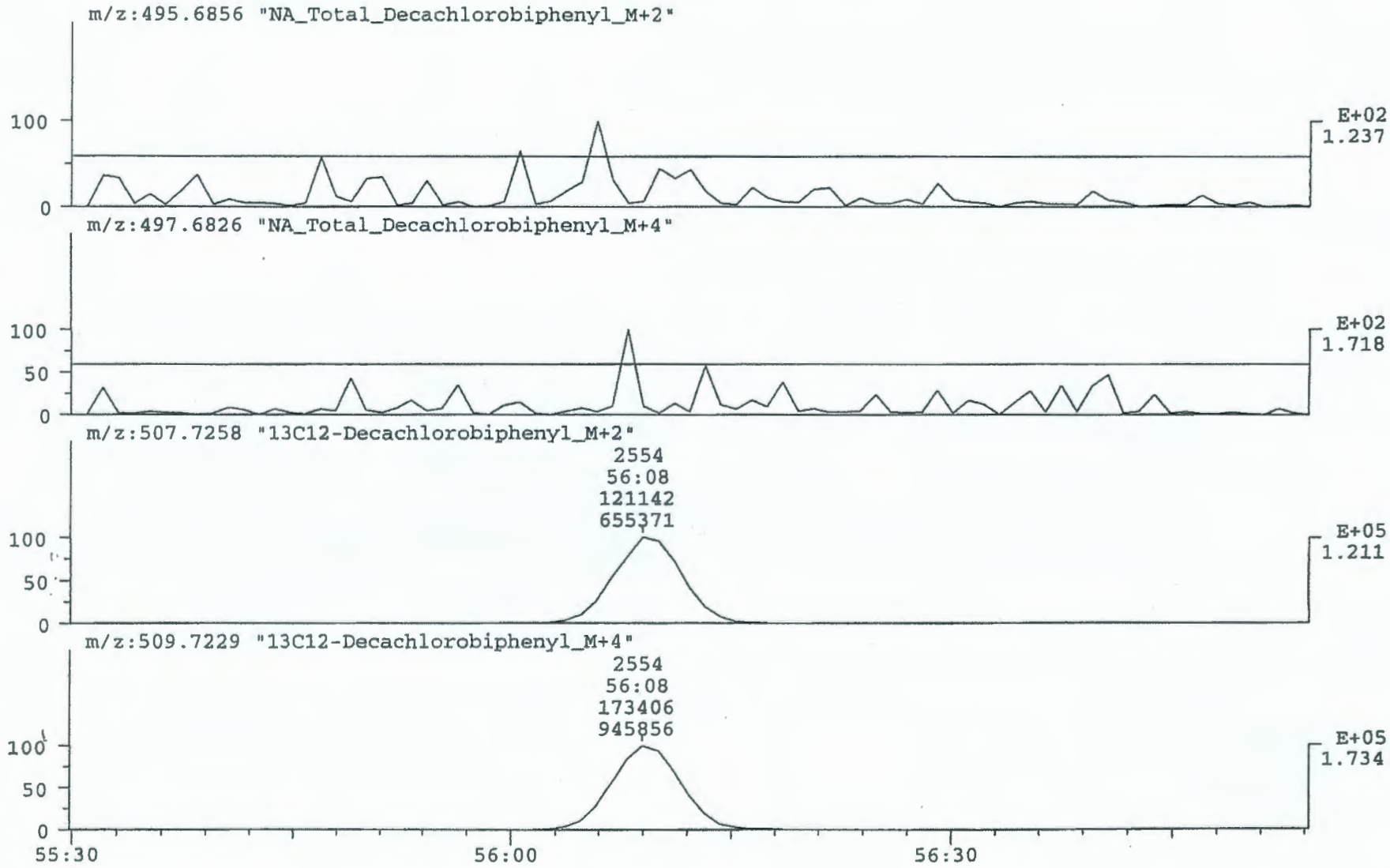
CHRO: a07030741 07-Mar-07 Elapse: 52:13 2331
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Cca1=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 2173 > 2489 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030741                                07-Mar-07   Elapse:  52:12      2330
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   2165 > 2495           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030741                              07-Mar-07  Elapse:  56:12      2557
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1              Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville             Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   2517 > 2597        Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icislms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a07030741
Study: 1668 RT Mix4/Run1
Sample: WO=2990:75Mix4 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 6
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 4 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:01 min	14:03 min	36:04 min	1.00 sec
# 3	36:05 min	13:10 min	49:15 min	1.00 sec
# 4	49:16 min	7:44 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	1	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	l	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	l	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	l	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668n

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
Purge time 1.5 min
Purge flow 40.0 ml/min
Gas saver is on
Saver time 3.0 min
Saver flow 15.0 ml/min
Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.0000	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	257.0000
FVINLET	250.0000	FVSRC	846.0000	FWIN	0.7000
GCTC	201.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.3431	HVANAL	1315.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4774.1100	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2605.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7900	TCURR	0.7813
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 07-Mar-07 20:08:45.1

Autosampler has injected sample from vial 6
MID Time Window 1: Resolution is 8227
MID Time Window 2: Resolution is 9607
MID Time Window 3: Resolution is 8573
MID Time Window 4: Resolution is 9642
Analysis stopped at: 07-Mar-07 21:05:47.6 (run time 57.02 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030742.	Prep Date		SDG No	
Analysis ID	96249	Prep Exp Date		Date Received	
Analysis Date	03/08/07 01:17	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	203	328	81	131	0.62 *	/	
	13C12-PCB 1	12:12	00:00	0	2280934	717234	867775	280575	3.18	AVV/AVV	
	13C12-PCB 3	14:25	00:00	0	2252395	694273	736661	230266	3.24	ABV/AVV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	350	208	140	83	1.69	/	
	13C12-PCB 4	14:43	00:00	0	971339	587422	320263	197663	1.65	ABV/AVV	
	13C12-PCB 9	16:40	00:00	0	1641496	1010157	484531	301517	1.62	ABV/AVV	
	13C12-PCB 8	17:33	00:00	0	1668402	1032368	463265	283615	1.62	AVV/AVV	
	13C12-PCB 15	20:41	00:00	0	1646036	1035778	424284	270192	1.59	ABV/AVV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	288	220	115	88	1.31 *	/	
	PCB 25 (BZ)	23:06	00:00	0	789685	775386	189051	182632	1.02	ABV/ABV	D
	PCB 21 (BZ)	23:55	00:00	0	747204	726019	176701	168967	1.03	AVV/AVV	D
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	510	273	204	109	1.87 *	/	
	13C12-PCB 19	17:54	00:00	0	562923	542638	154225	147296	1.04	AVV/AVV	
	13C12-PCB 32	21:10	00:00	0	1047366	977839	259507	241945	1.07	AVV/AVV	
	13C12-PCB 31	23:25	00:00	0	1578909	1509645	385665	366512	1.05	AVV/ABV	
	13C12-PCB 28	23:42	00:00	0	1469537	1390969	354323	334755	1.06	AVV/AVV	
	13C12-PCB 37	27:47	00:00	0	1390029	1300898	307478	290990	1.07	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	253	283	101	113	0.89 *	/	
	PCB 69 (BZ)	25:57	00:00	0	1057175	1342445	251131	324391	0.79	ABV/ABV	
	PCB 47 (BZ)	26:35	00:00	0	894261	1139494	200915	263284	0.78	ABV/AVV	M
	PCB 42 (BZ)	27:08	00:00	0	751998	946618	170366	220625	0.79	AVV/AVV	D
	PCB 64 (BZ)	27:50	00:00	0	1154670	1458298	256800	331944	0.79	ABV/ABV	D
	PCB 70 (BZ)	30:22	00:00	0	1169672	1502907	258508	325014	0.78	ABV/ABV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	130	123	52	49	1.06 *	/	
	13C12-PCB 54	21:02	00:00	0	503167	618821	127010	159360	0.81	ABV/ABV	
	13C12-PCB 52	25:33	00:00	0	761648	955683	173165	223654	0.80	ABV/ABV	
	13C12-PCB 79	33:29	00:00	0	1063846	1330245	227077	286610	0.80	ABV/ABV	
	13C12-PCB 81	34:31	00:00	0	962825	1223048	201938	252420	0.79	ABV/ABV	D
	13C12-PCB 77	35:06	00:00	0	993452	1242071	199286	255556	0.80	ABV/ABV	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	175	185	70	74	0.95 *	/	
	PCB 102 (BZ)	29:51	00:00	0	969619	608168	218281	139261	1.59	ABV/ABV	
	PCB 97 (BZ)	33:31	00:00	0	882004	565165	182144	117916	1.56	ABV/ABV	DM
	PCB 115 (BZ)	34:26	00:00	0	1278649	809518	275556	169900	1.58	AVV/AVV	DM

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cemax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030742.	Prep Date		SDG No	
Analysis ID	96249	Prep Exp Date		Date Received	
Analysis Date	03/08/07 01:17	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	PCB 123 (BZ)	37:02	00:00	0	1502028	966616	324305	209152	1.55	AVV/AVV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	153	148	61	59	1.03 *	/	
	13C12-PCB 104	26:28	00:00	0	1144247	709494	261331	159842	1.61	ABV/ABV	D
	13C12-PCB 95	29:30	00:00	0	848602	517533	186414	114783	1.64	AVV/ABV	D
	13C12-PCB 101	32:22	00:00	0	889713	552653	190537	118484	1.61	AVV/AVV	
	13C12-PCB 111	34:59	00:00	0	1099089	693761	233381	148676	1.58	ABV/ABV	
	13C12-PCB 123	37:01	00:00	0	1372561	867875	284392	180379	1.58	ABV/ABV	D
	13C12-PCB 118	37:20	00:00	0	1435990	890412	306464	189347	1.61	AVV/AVV	D
	13C12-PCB 114	37:53	00:00	0	1374433	858782	279026	177795	1.60	AVV/AVV	D
	13C12-PCB 105	38:35	00:00	0	1346490	850237	279562	179355	1.58	ABV/ABV	D
	13C12-PCB 127	39:58	00:00	0	1480812	943851	303158	193861	1.57	AVV/AVV	
	13C12-PCB 126	41:39	00:00	0	1432756	900270	294860	177632	1.59	ABV/AVV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	208	145	83	58	1.43 *	/	
	PCB 134 (BZ)	36:28	00:00	0	751941	585846	154895	120853	1.28	AVV/AVV	D
	PCB 131 (BZ)	37:03	00:00	0	796089	629984	165363	134143	1.26	AVV/ABV	D
	PCB 163 (BZ)	40:29	00:00	0	1262474	991997	267159	208705	1.27	ABV/ABV	M
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	140	288	56	115	0.49 *	/	
	13C12-PCB 155	32:02	00:00	0	927029	731129	196237	161073	1.27	ABV/ABV	D
	13C12-PCB 153	39:09	00:00	0	969215	753689	203387	157807	1.29	AVV/ABV	D
	13C12-PCB 138	40:27	00:00	0	972145	763396	198306	155597	1.27	ABV/ABV	
	13C12-PCB 167	43:25	00:00	0	1197643	927545	247029	196044	1.29	AVV/AVV	
	13C12-PCB 156	44:34	00:00	0	999808	788307	238808	184665	1.27	ABV/ABV	D
	13C12-PCB 157	44:40	00:00	0	1353938	1045337	259173	196245	1.30	AVB/AVB	M
	13C12-PCB 169	47:50	00:00	0	1145390	876830	230102	175997	1.31	ABV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	115	330	46	132	0.35 *	/	
	PCB 180 (BZ)	45:57	00:00	0	826312	782381	165903	158944	1.06	ABV/ABV	DM
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	153	160	61	64	0.95	/	
	13C12-PCB 188	37:47	00:00	0	989089	939255	212794	199623	1.05	ABV/ABV	D
	13C12-PCB 178	40:52	00:00	0	635349	605863	128489	121103	1.05	ABV/ABV	
	13C12-PCB 180	45:56	00:00	0	835060	782937	171290	161262	1.07	ABV/ABV	
	13C12-PCB 170	47:15	00:00	0	667423	628419	134021	125933	1.06	AVV/ABV	
	13C12-PCB 189	50:18	00:00	0	1096502	1035997	220363	202487	1.06	ABV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	120	95	48	38	1.26 *	/	
	13C12-PCB 202	43:09	00:00	0	770775	837222	157720	173617	0.92	ABV/ABV	D
	13C12-PCB 194	52:23	00:00	0	653835	717331	133783	145501	0.91	ABV/ABV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cmax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030742.	Prep Date		SDG No	
Analysis ID	96249	Prep Exp Date		Date Received	
Analysis Date	03/08/07 01:17	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

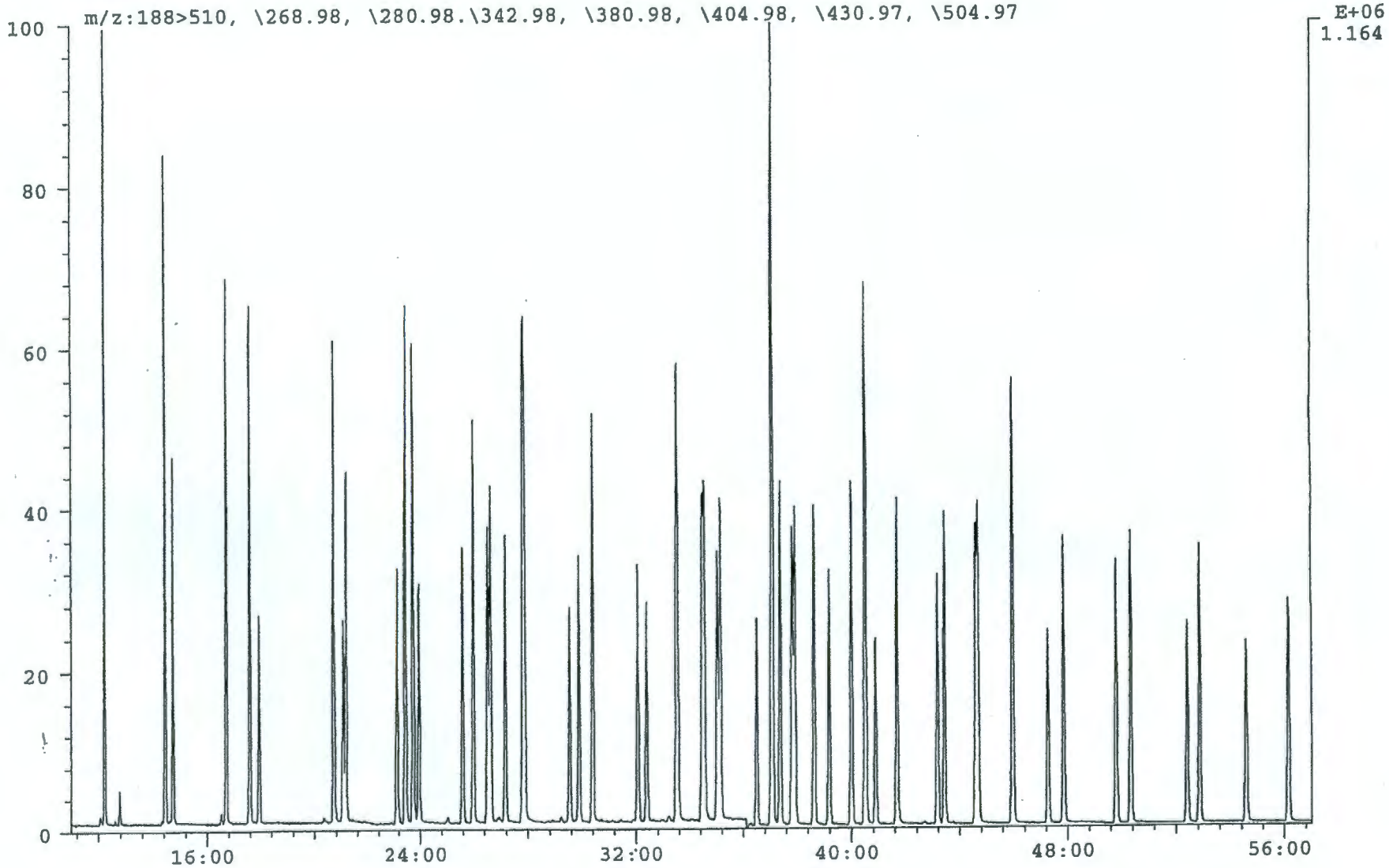
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	13C12-PCB 205	52:51	00:00	0	903616	997582	182742	205642	0.91	AVV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	143	163	57	65	0.88	/	
	13C12-PCB 208	49:47	00:00	0	768827	961758	153687	185242	0.80	AVV/AVV	
	13C12-PCB 206	54:33	00:00	0	515249	651789	101435	129075	0.79	ABV/ABV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	123	110	49	44	1.11 *	/	
	13C12-PCB 209	56:09	00:00	0	615697	854443	113437	157433	0.72	ABV/ABV	

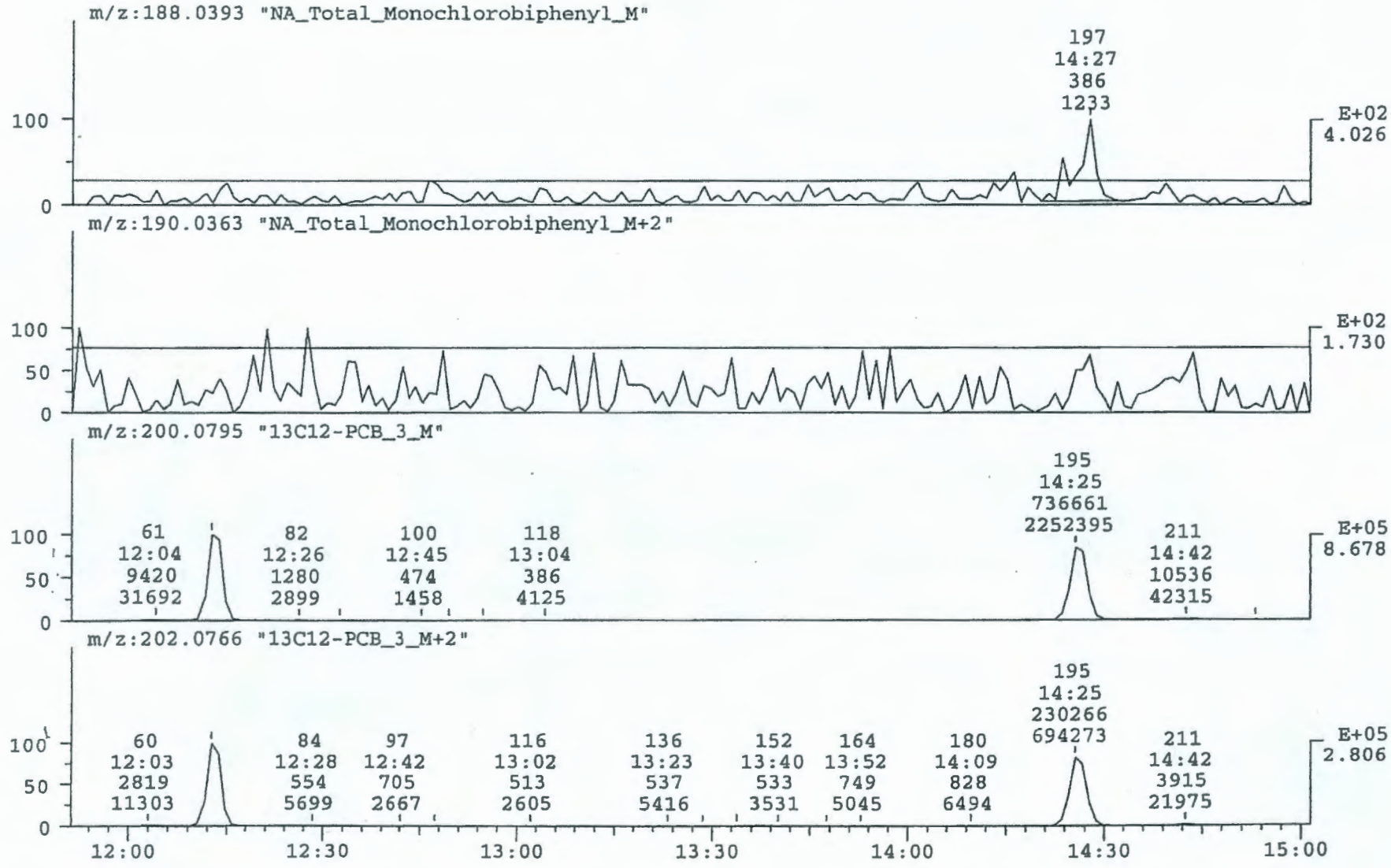
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cemax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: a07030742 08-Mar-07 Elapse: 56:13 2557
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 2 > 2602 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

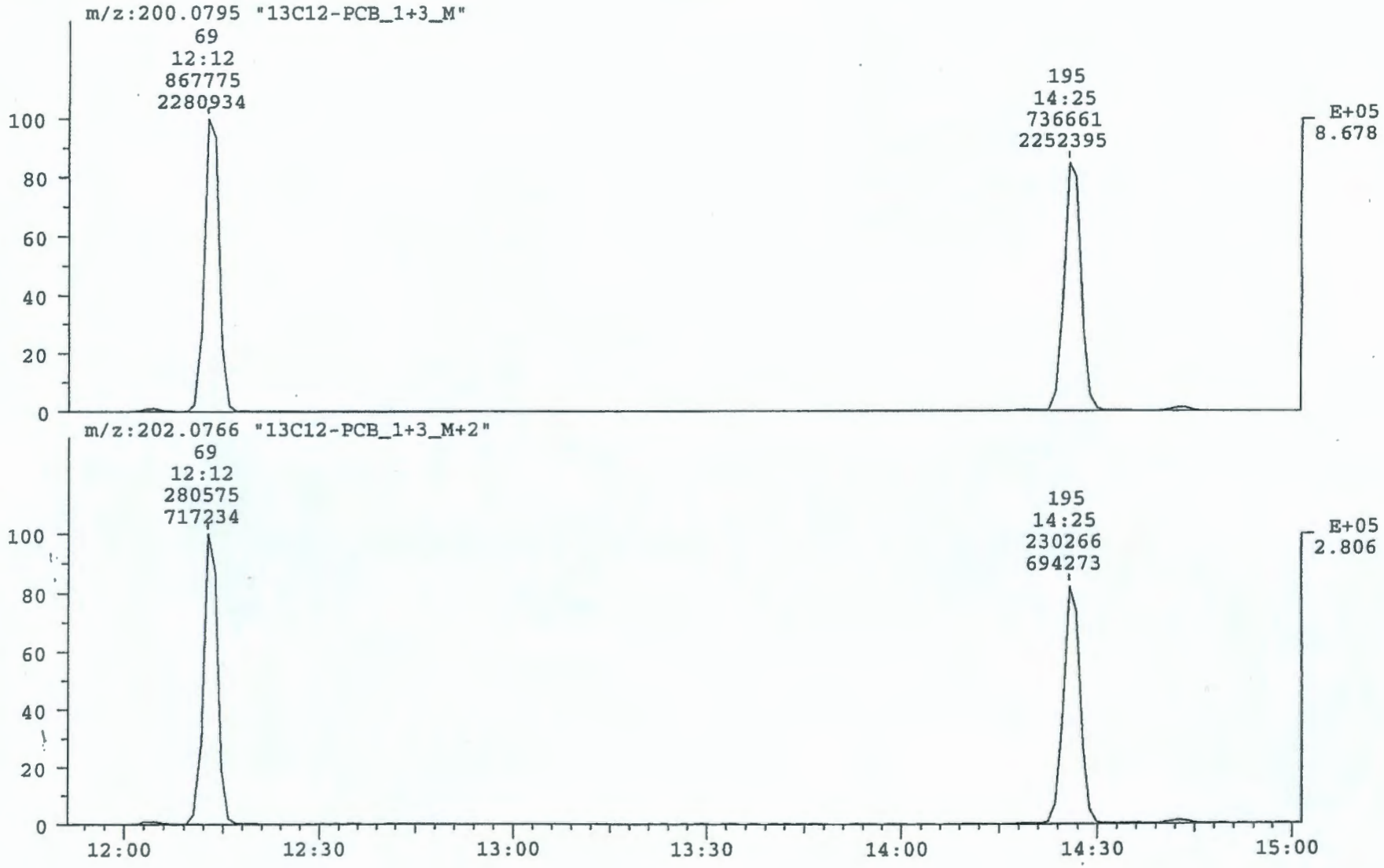
Int DCS 3-1707
calc DCS 3-1907
QC KFW 3/19/07



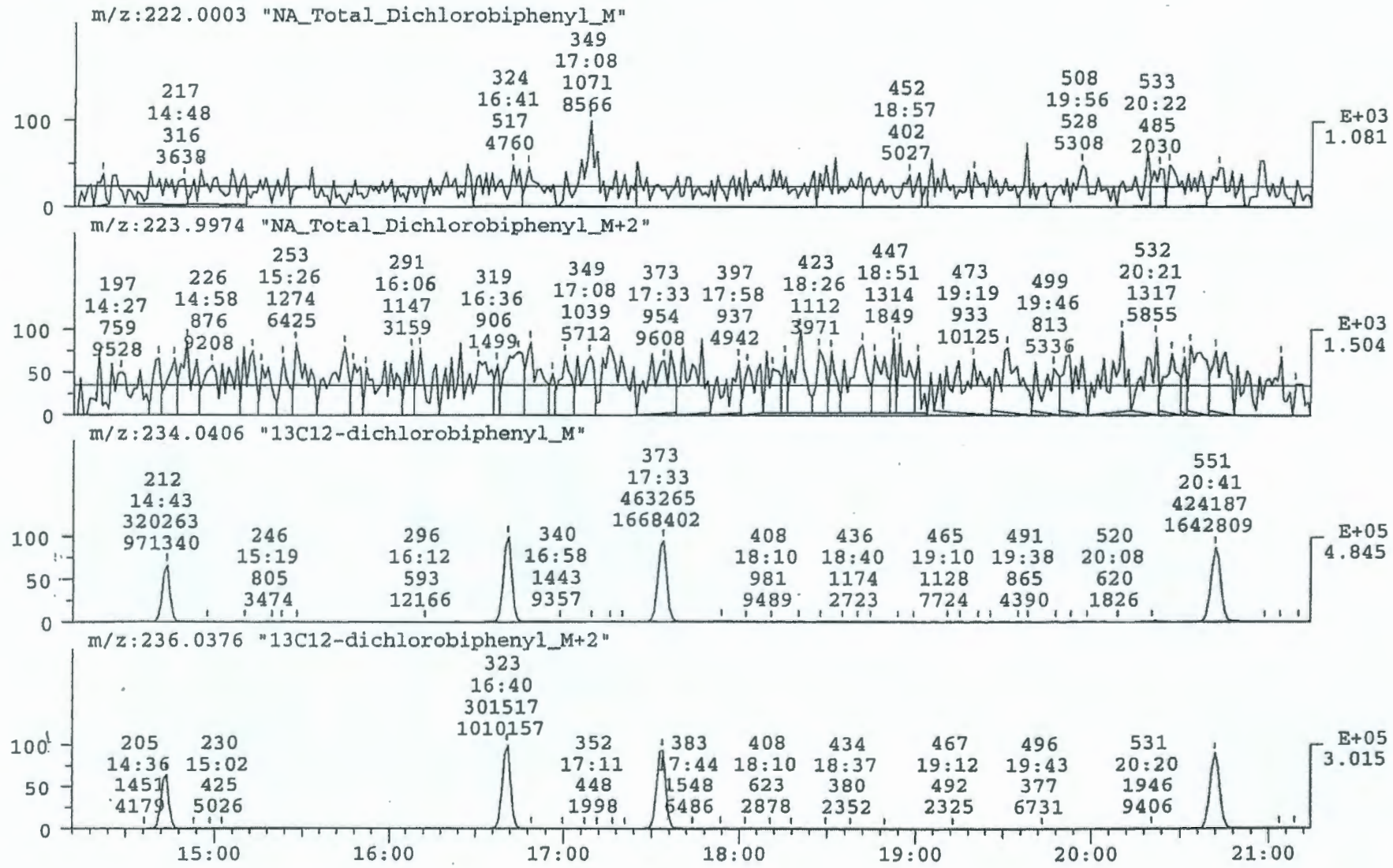
```
CHRO:  a07030742                          08-Mar-07   Elapse:  13:26.4     139
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1           Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 RT Mix4/Run2
Oper:  DCG          Client:  STL Knoxville            Inlet :  GC     Vial   6
Peak:  100.00  ppm    Label wndw:   49 > 229          Masses:  181 > 510
Area:  5, 0.50, 15    Baseline  :   100, 3            Label :  -3, 3.0
Disp:  Height  Area
```



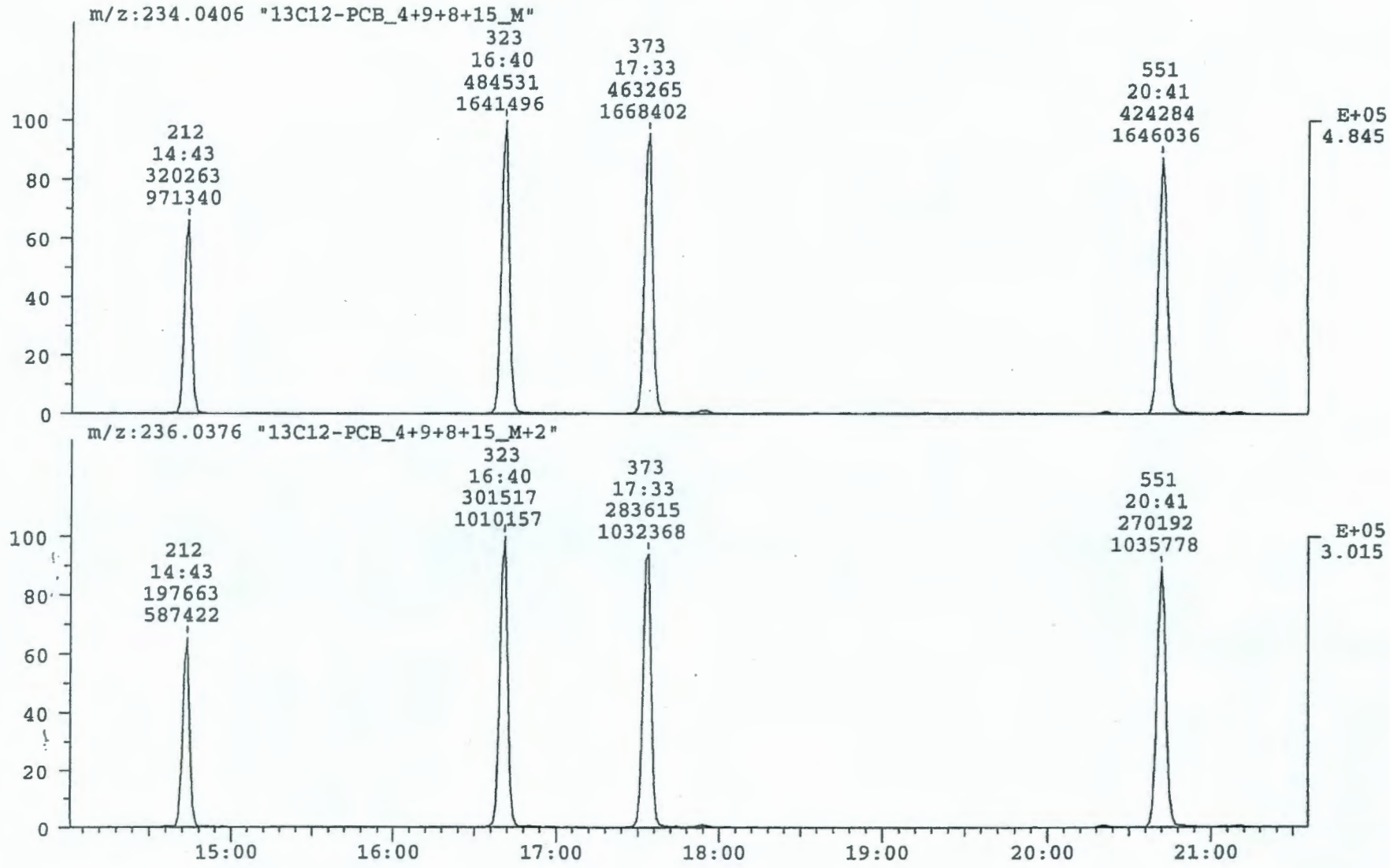
```
CHRO:  a07030742                              08-Mar-07   Elapse:  13:26.4      139
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC      Vial   6
Peak:  100.00  ppm      Label wndw:   49 > 229            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030742 08-Mar-07 Elapse: 17:43.0 382
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 182 > 582 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

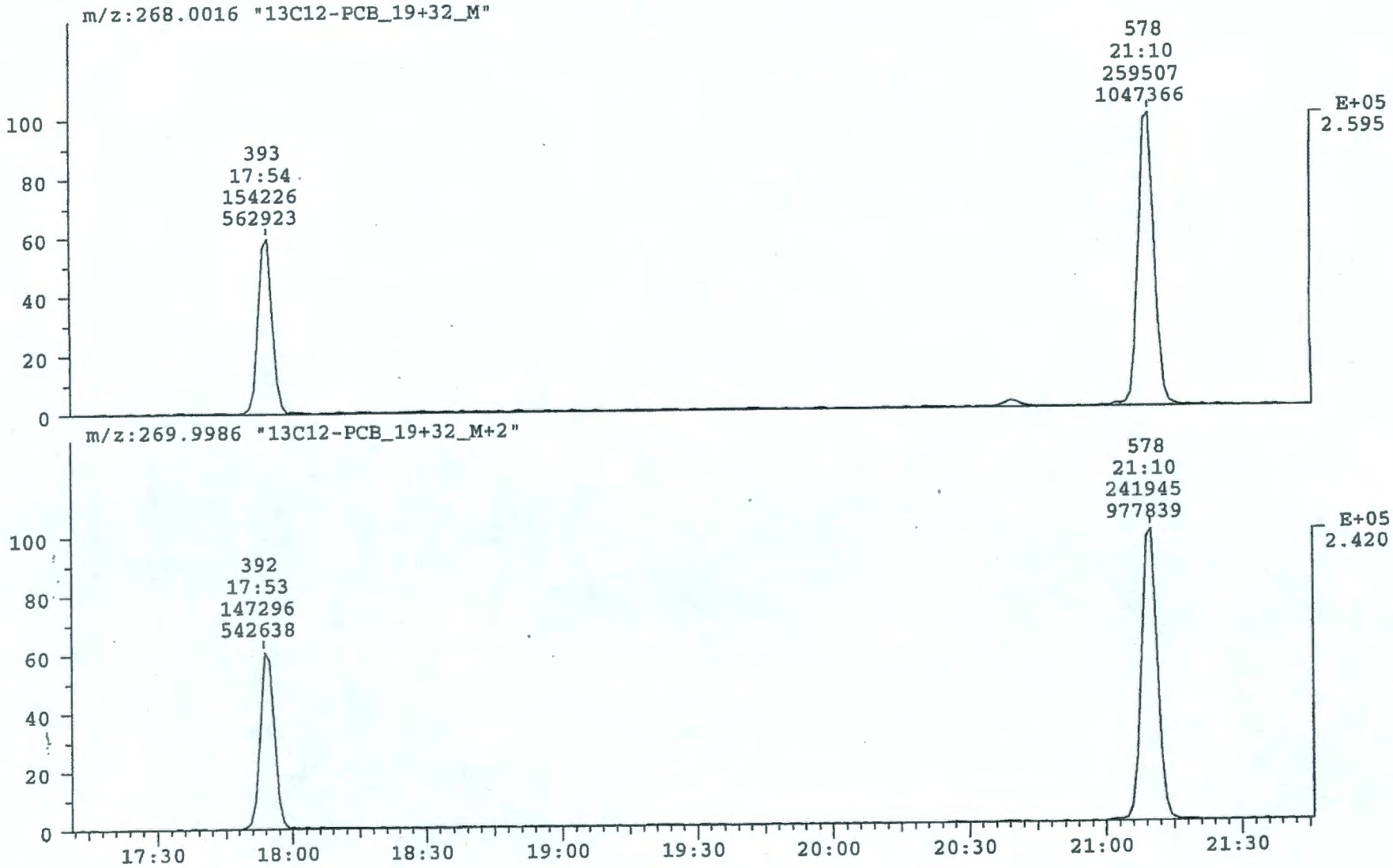


```
CHRO:  a07030742                                08-Mar-07  Elapse:  17:43.0     382
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   172 > 602           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

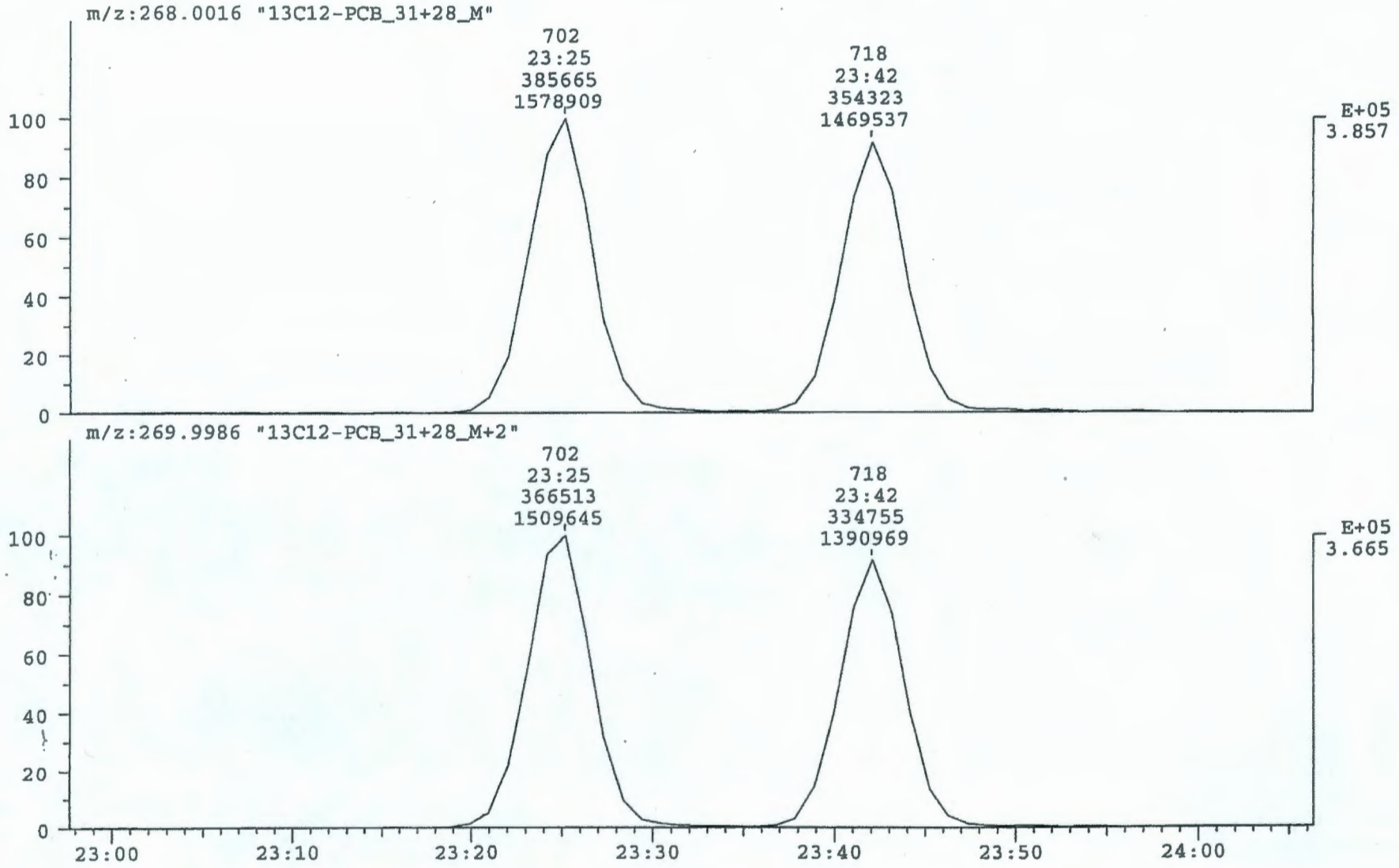


```
CHRO:  a07030742                                08-Mar-07   Elapse:  22:53.5      672
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   352 > 992             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

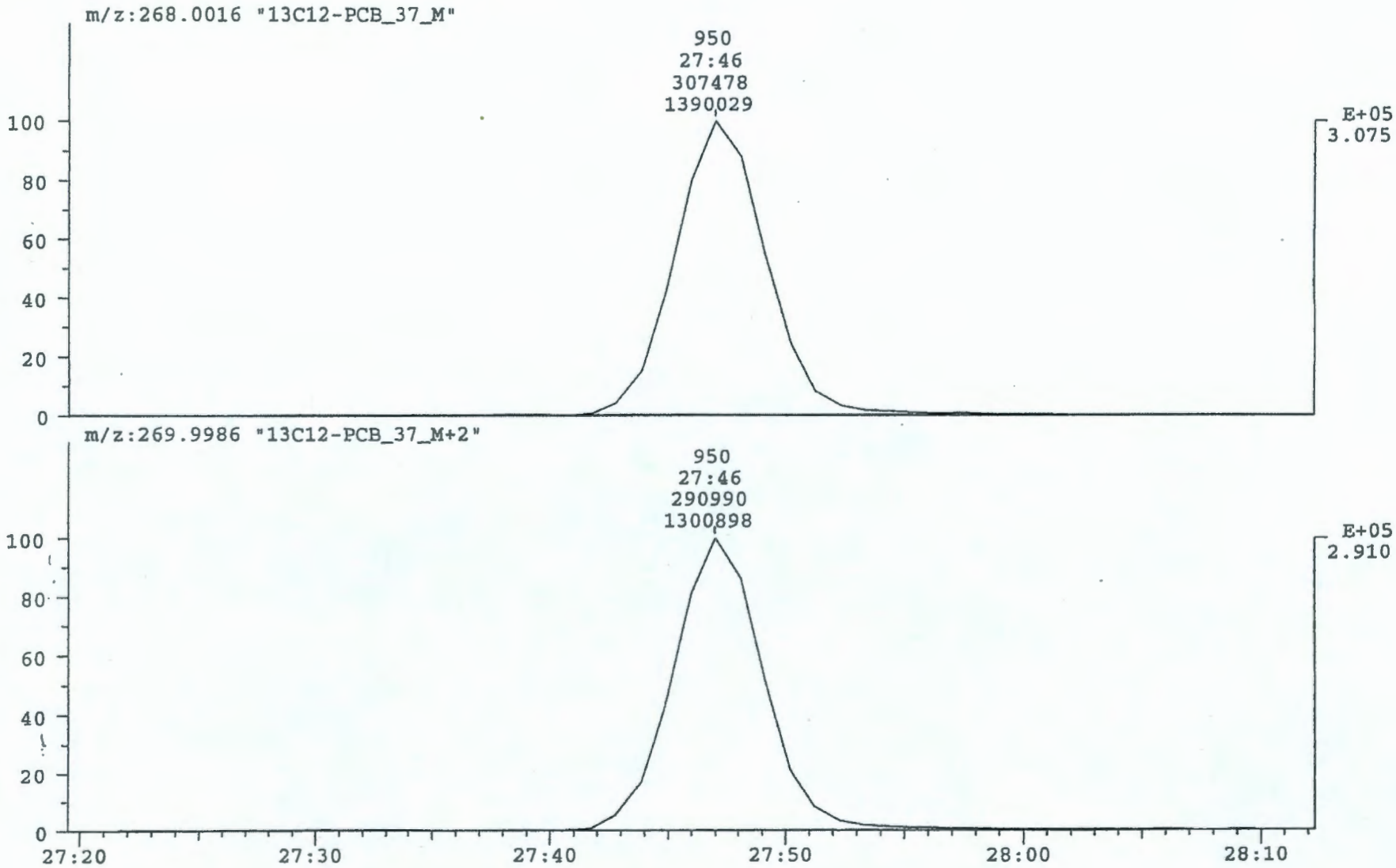
CHRO: a07030742 08-Mar-07 Elapse: 19:18.1 472
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 352 > 612 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



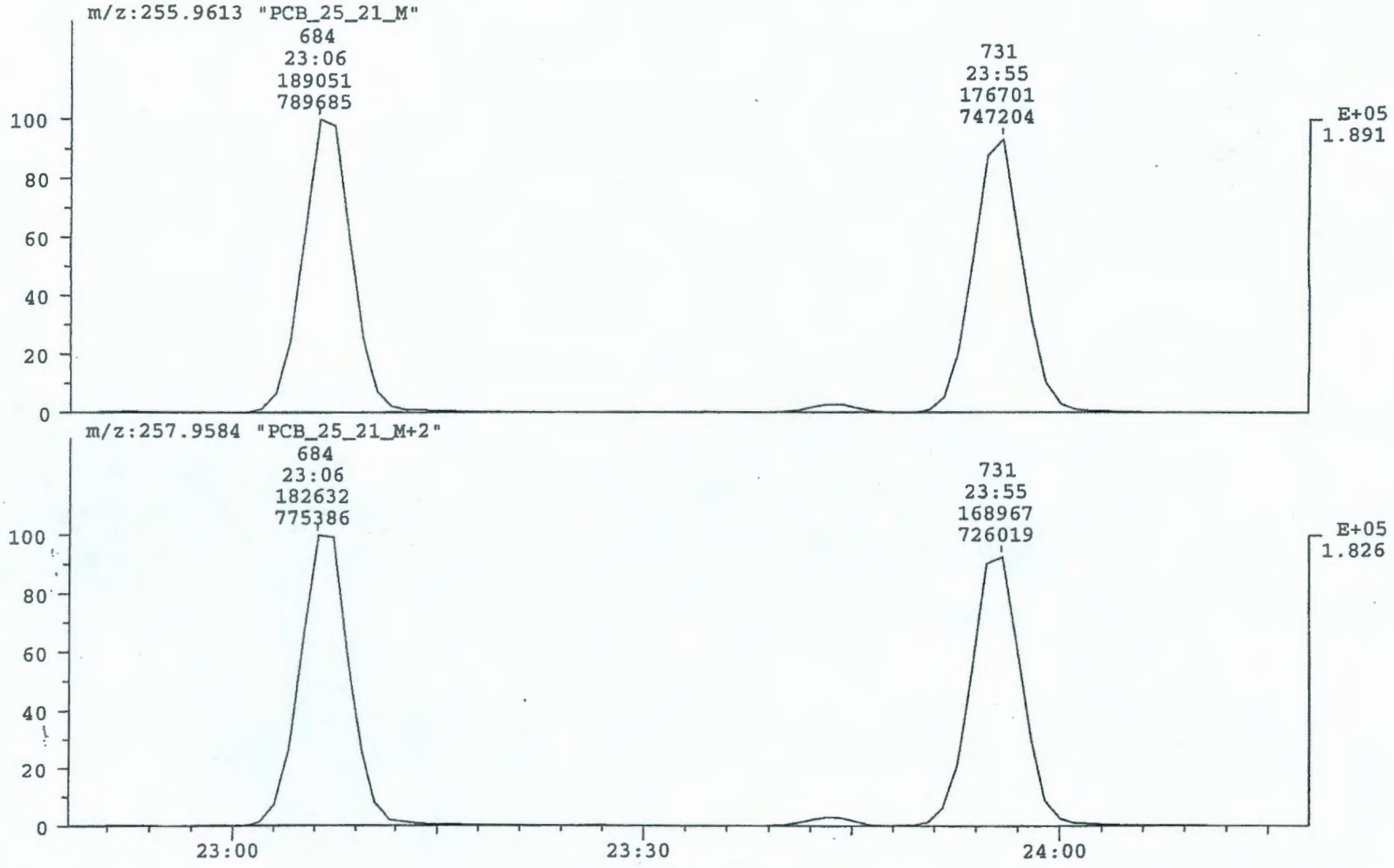
```
CHRO:  a07030742                                08-Mar-07  Elapse:  23:24.1     701
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   676 > 741           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



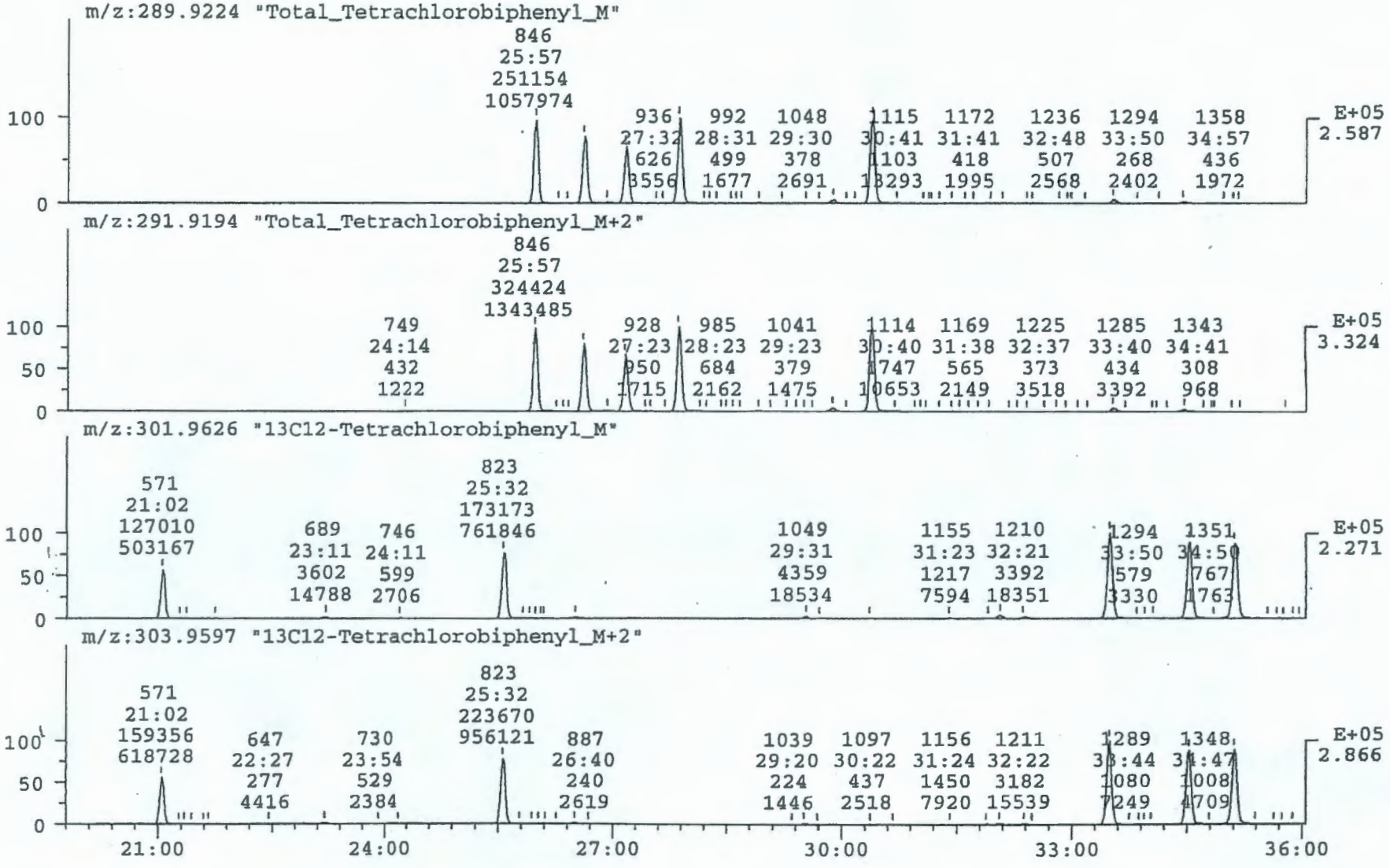
```
CHRO:  a07030742                                08-Mar-07  Elapse:  27:45.9      949
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   924 > 974           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



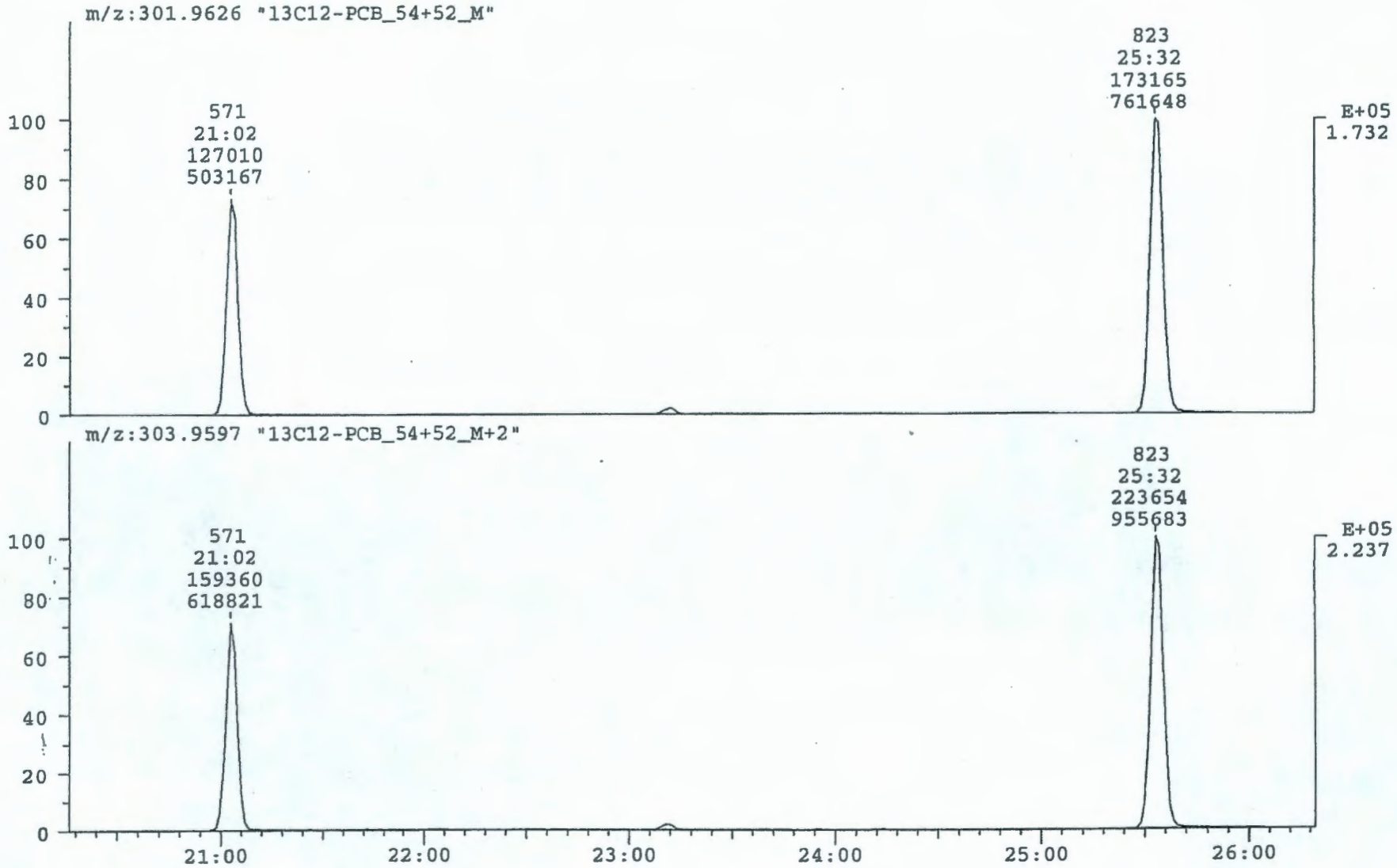
```
CHRO:  a07030742                                08-Mar-07   Elapse:  23:41.9      717
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   667 > 752             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



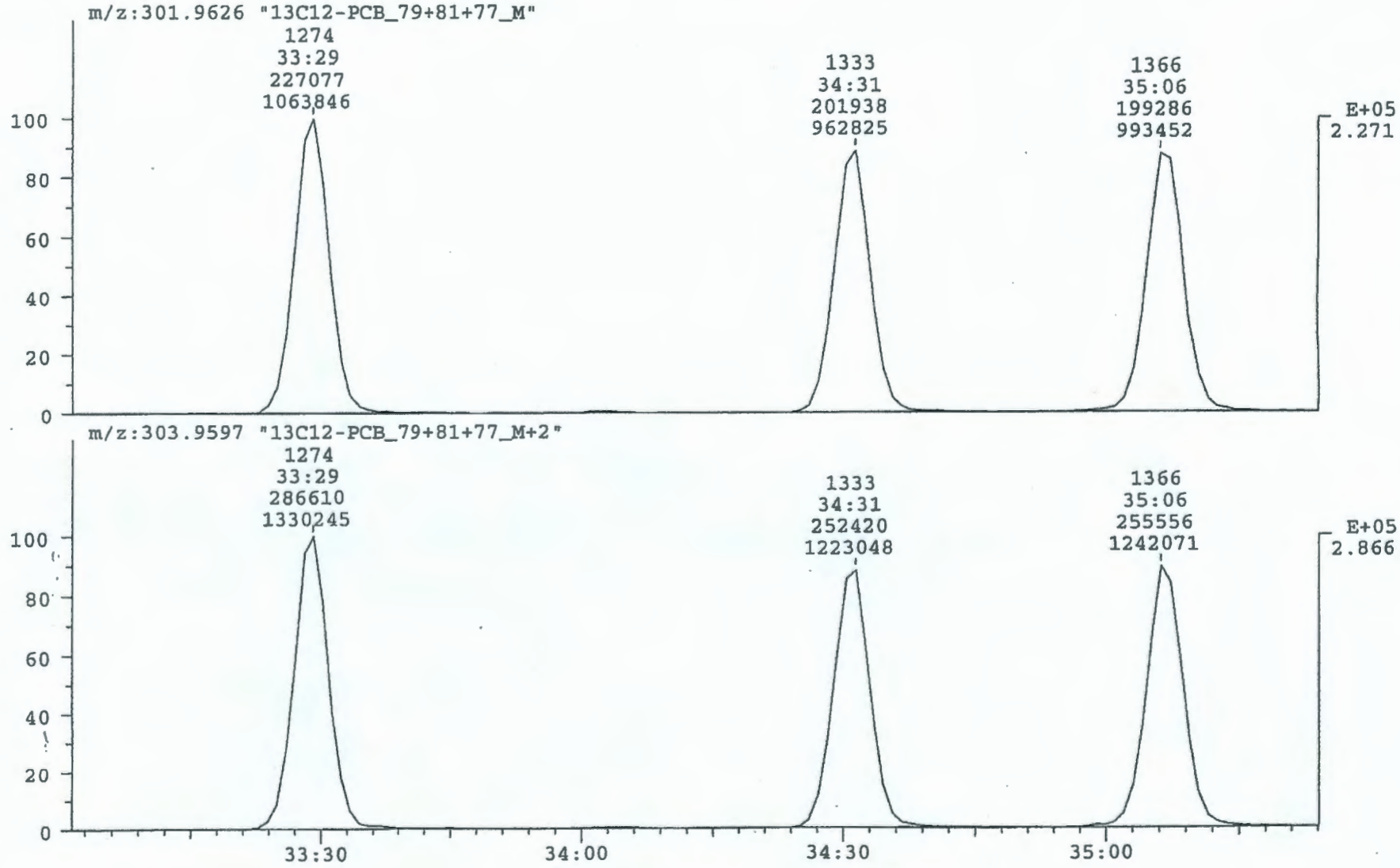
```
CHRO:  a07030742                                08-Mar-07   Elapse:  27:55.4      958
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   500 > 1420            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



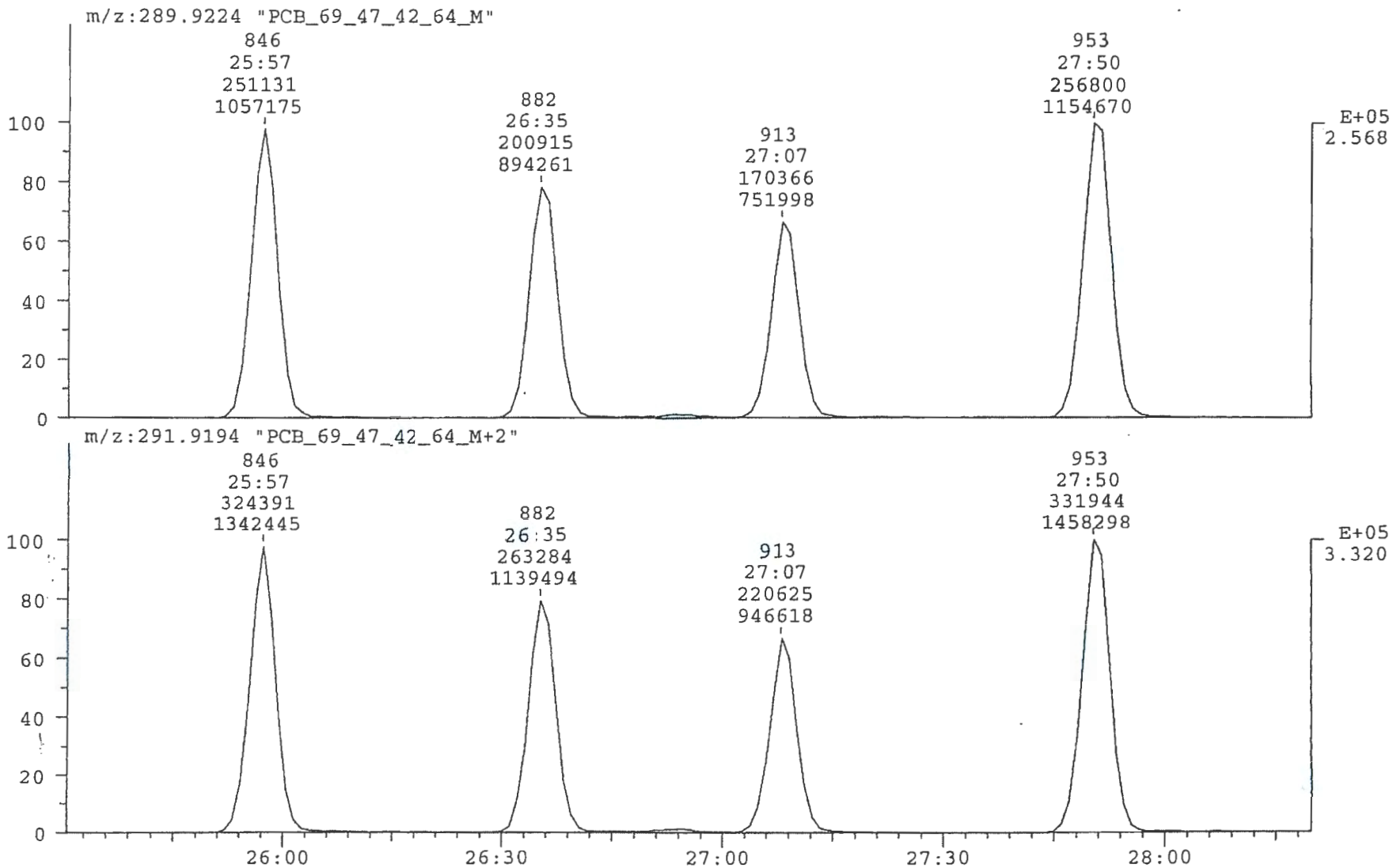
```
CHRO:  a07030742                                08-Mar-07   Elapse:  23:19.9      697
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



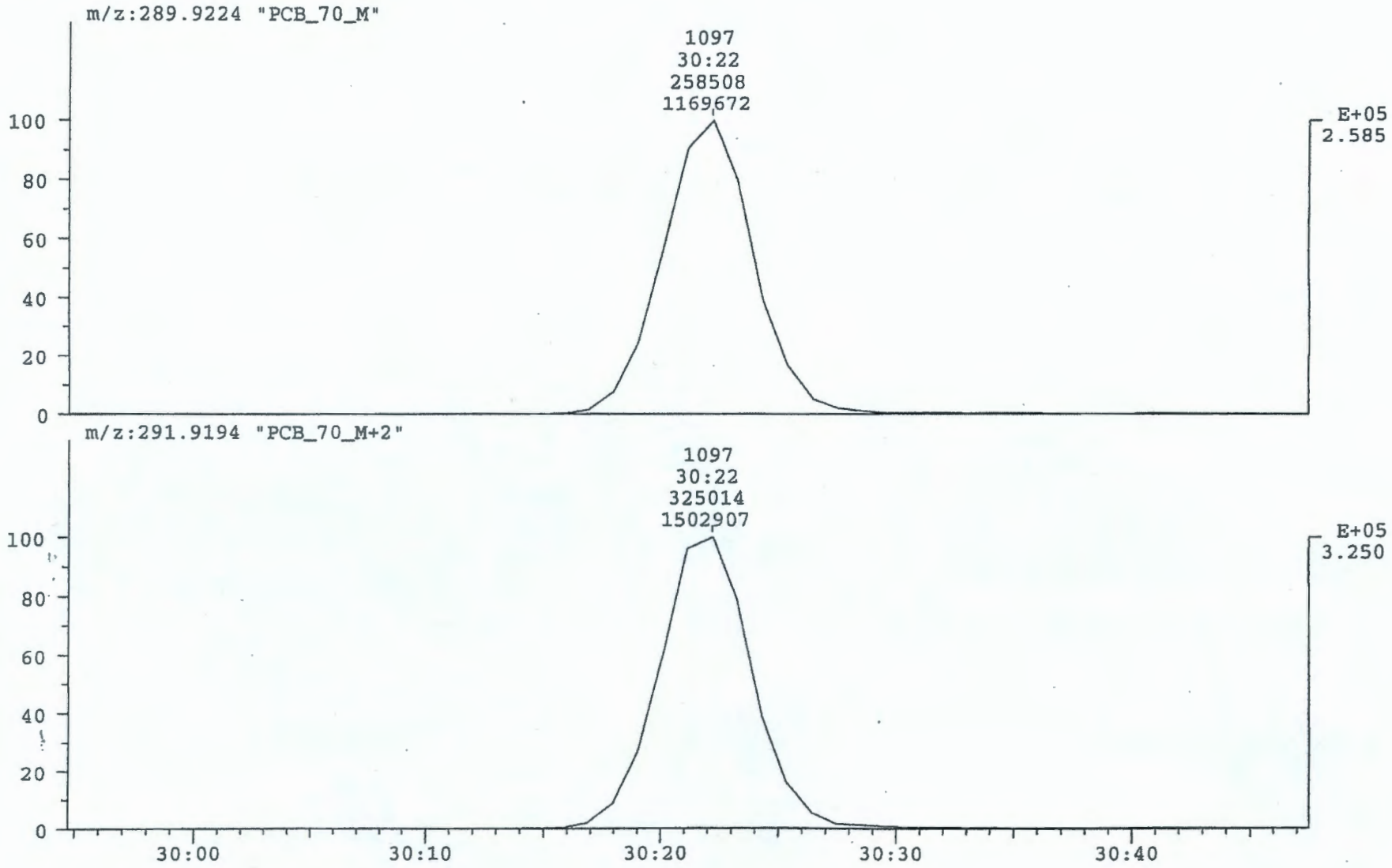
CHRO: a07030742 08-Mar-07 Elapse: 34:15 1318
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1248 > 1383 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



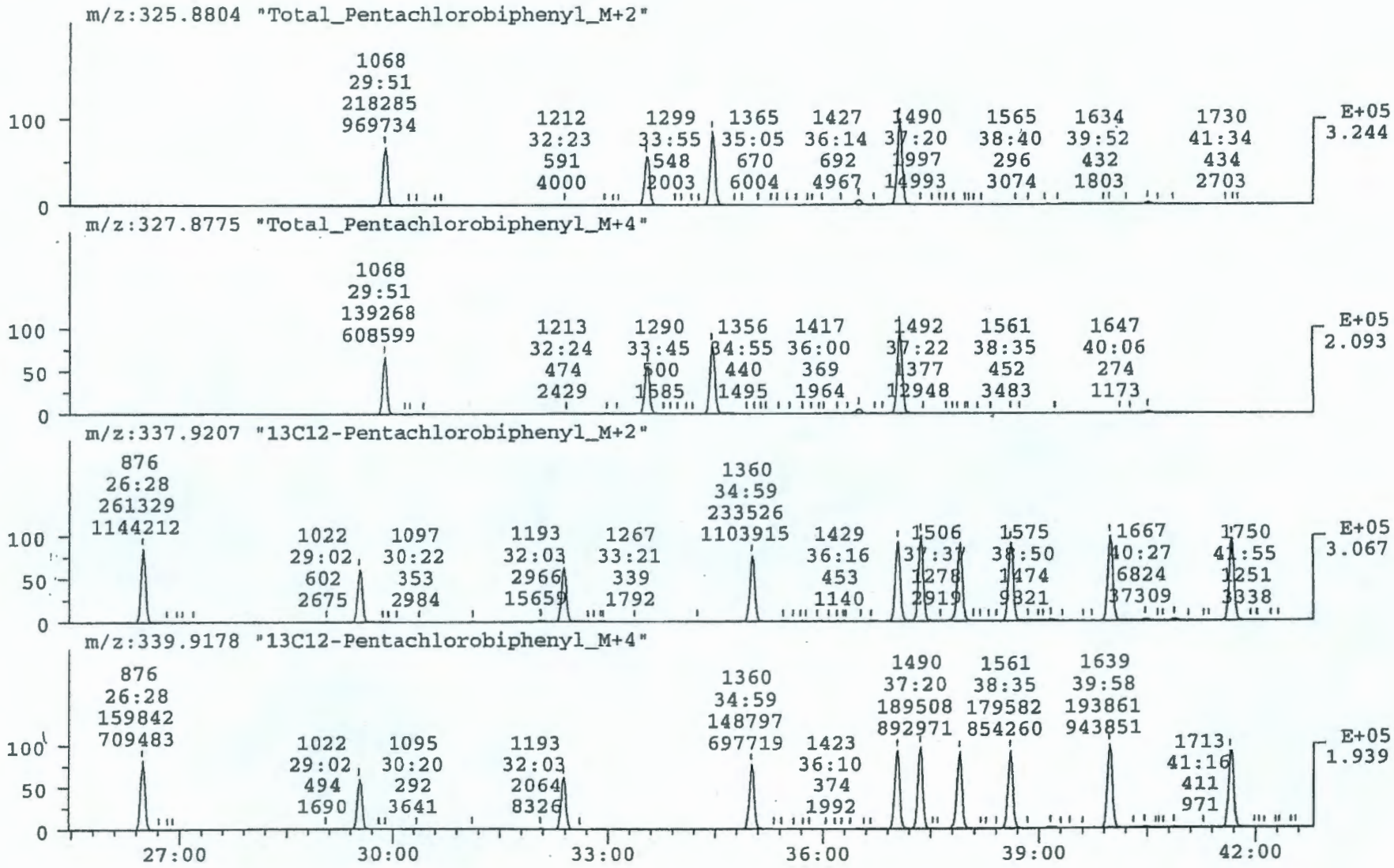
```
CHRO:  a07030742                                08-Mar-07   Elapse:  26:55.2      901
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   6
Peak:  100.00  ppm     Label wndw:   821 > 981              Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



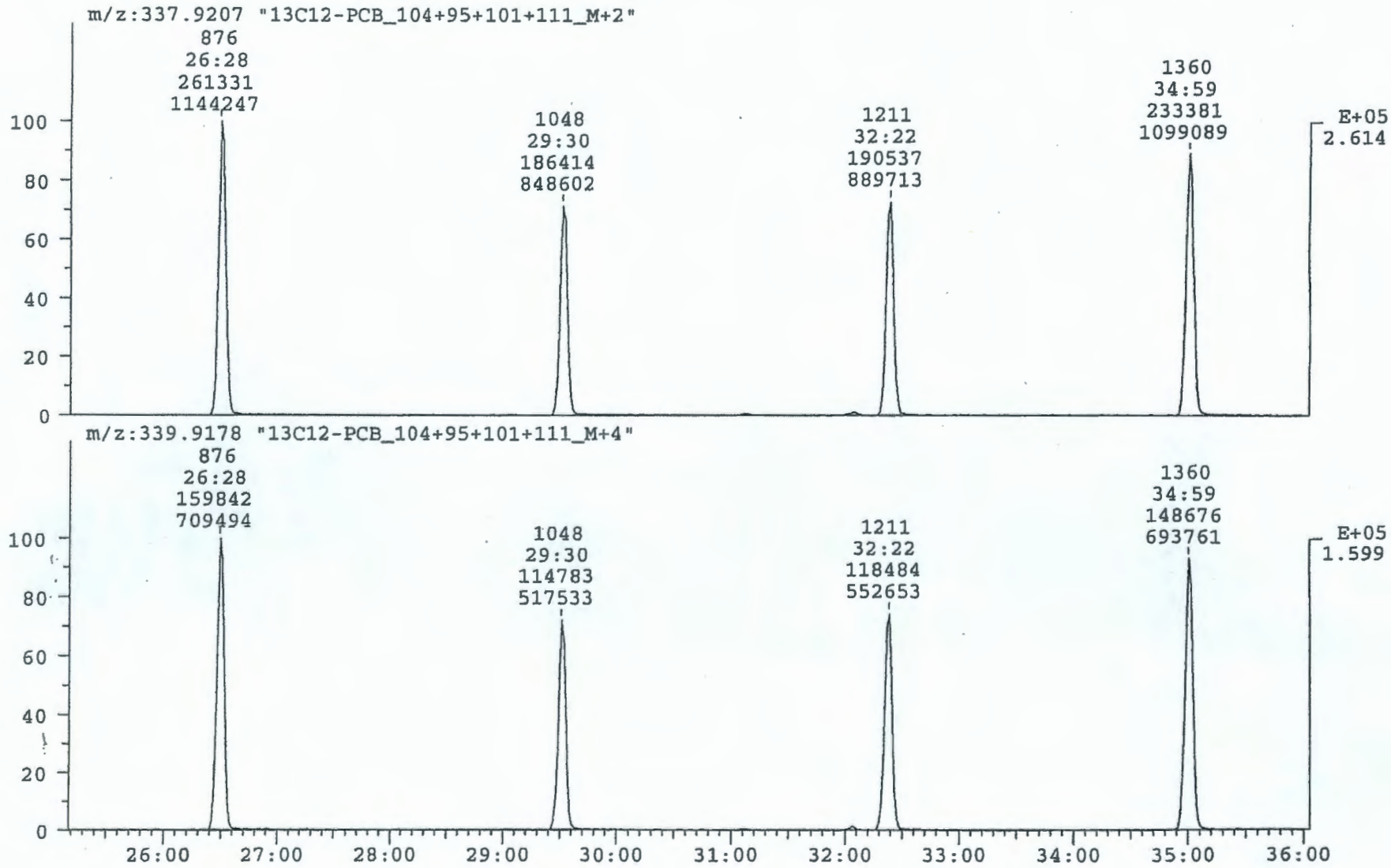
```
CHRO:  a07030742                                08-Mar-07  Elapse:  30:21      1096
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm    Label wndw:   1071 > 1121           Masses:  181 > 510
Area:  5, 0.50, 15    Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



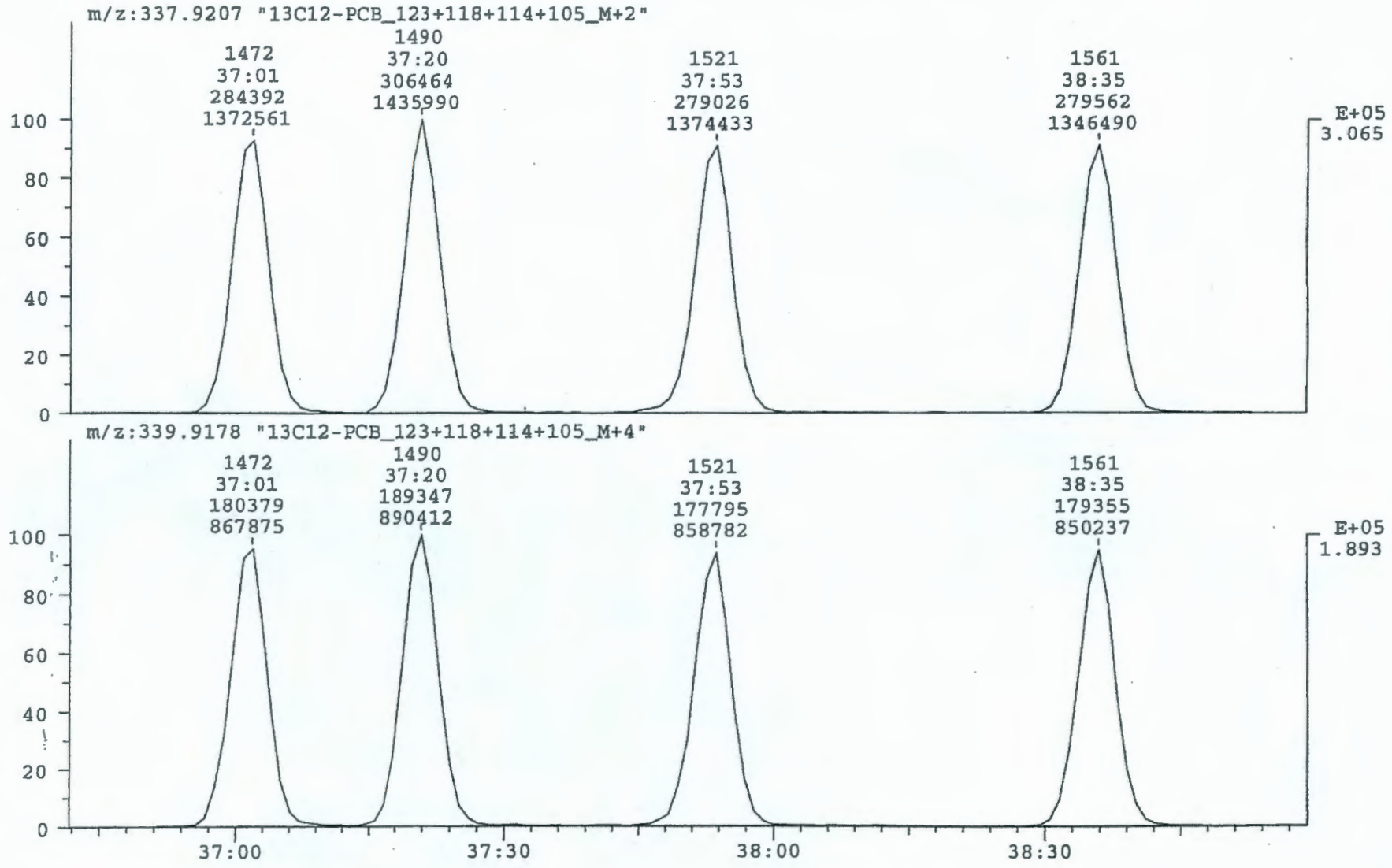
```
CHRO:  a07030742                                08-Mar-07  Elapse:  34:08      1311
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   818 > 1800          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



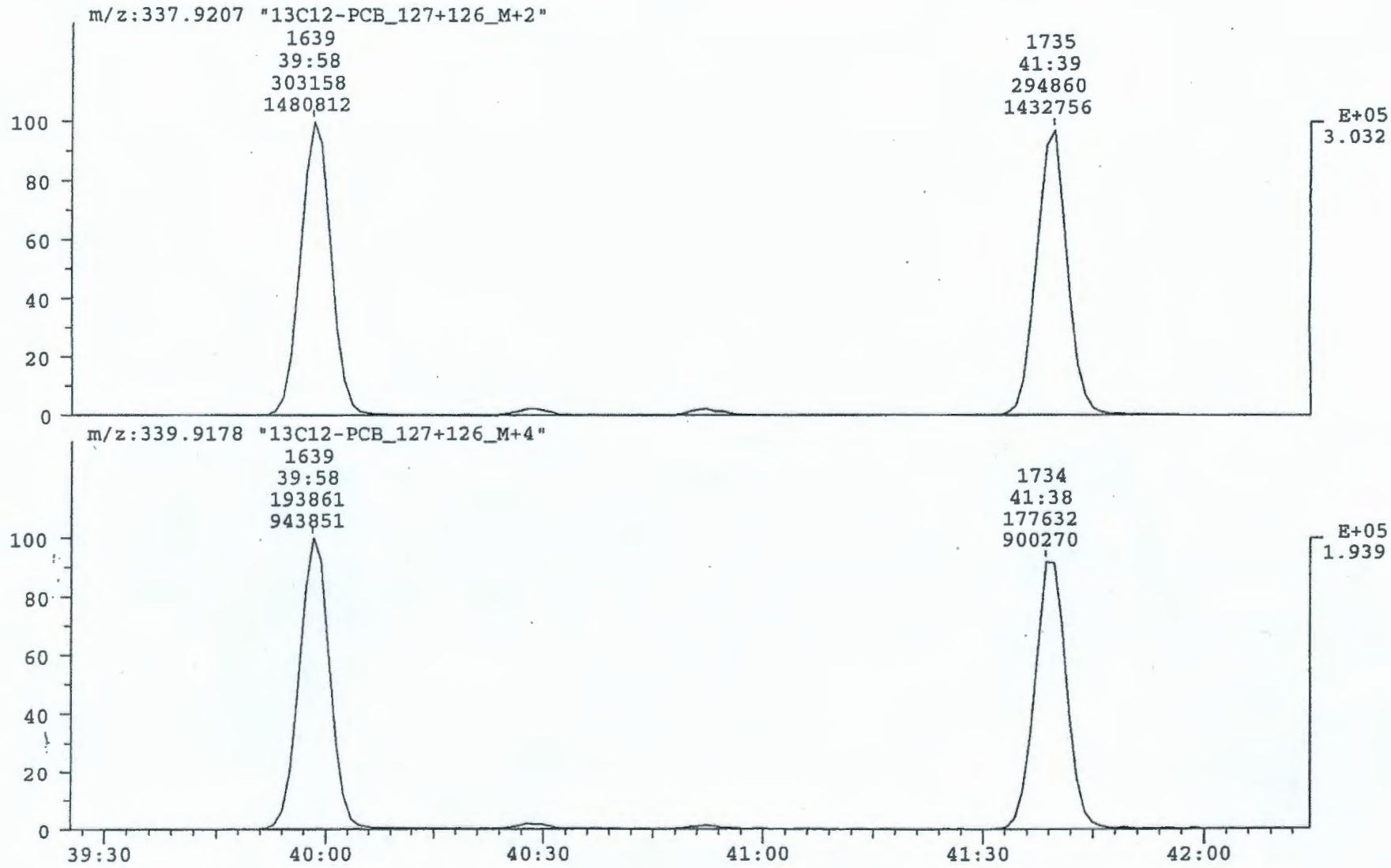
```
CHRO:  a07030742                                08-Mar-07   Elapse:  30:37      1111
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  6
Peak:  100.00  ppm     Label wndw:   802 > 1420             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



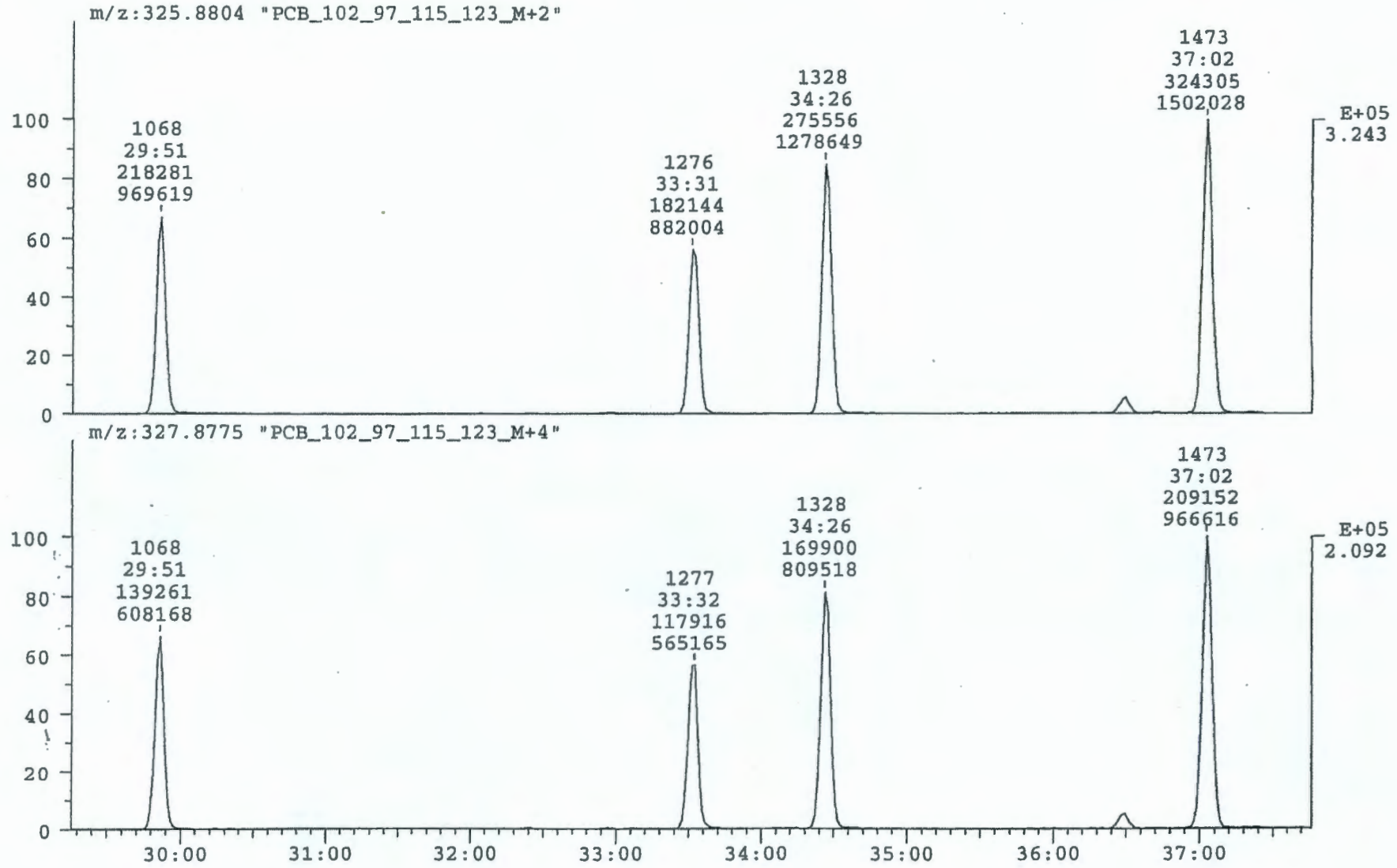
```
CHRO:  a07030742                                08-Mar-07   Elapse:  37:50      1518
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC   Vial   6
Peak:  100.00  ppm      Label wndw:   1453 > 1583           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



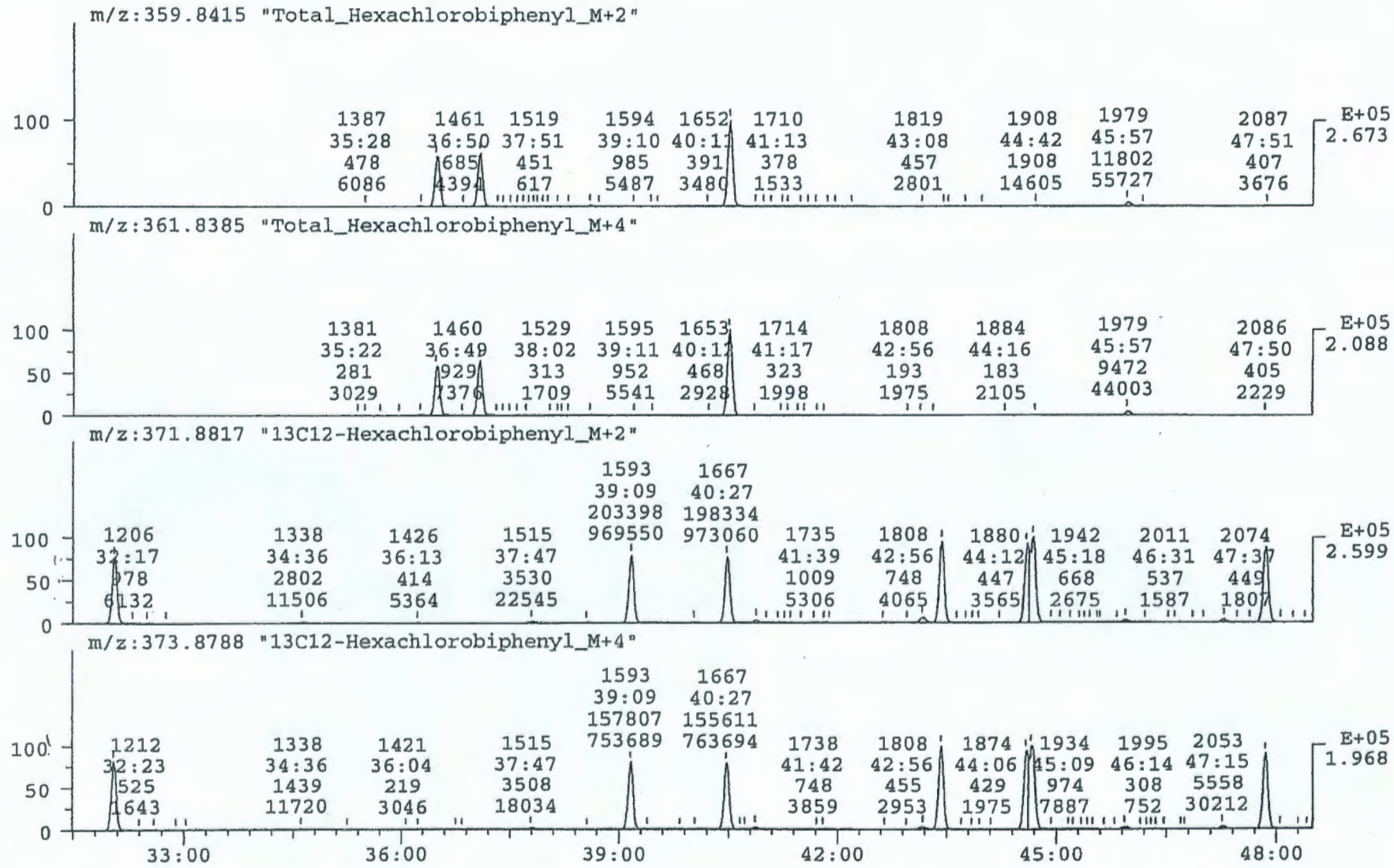
```
CHRO:  a07030742                                08-Mar-07   Elapse:  40:49      1688
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1608 > 1768           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



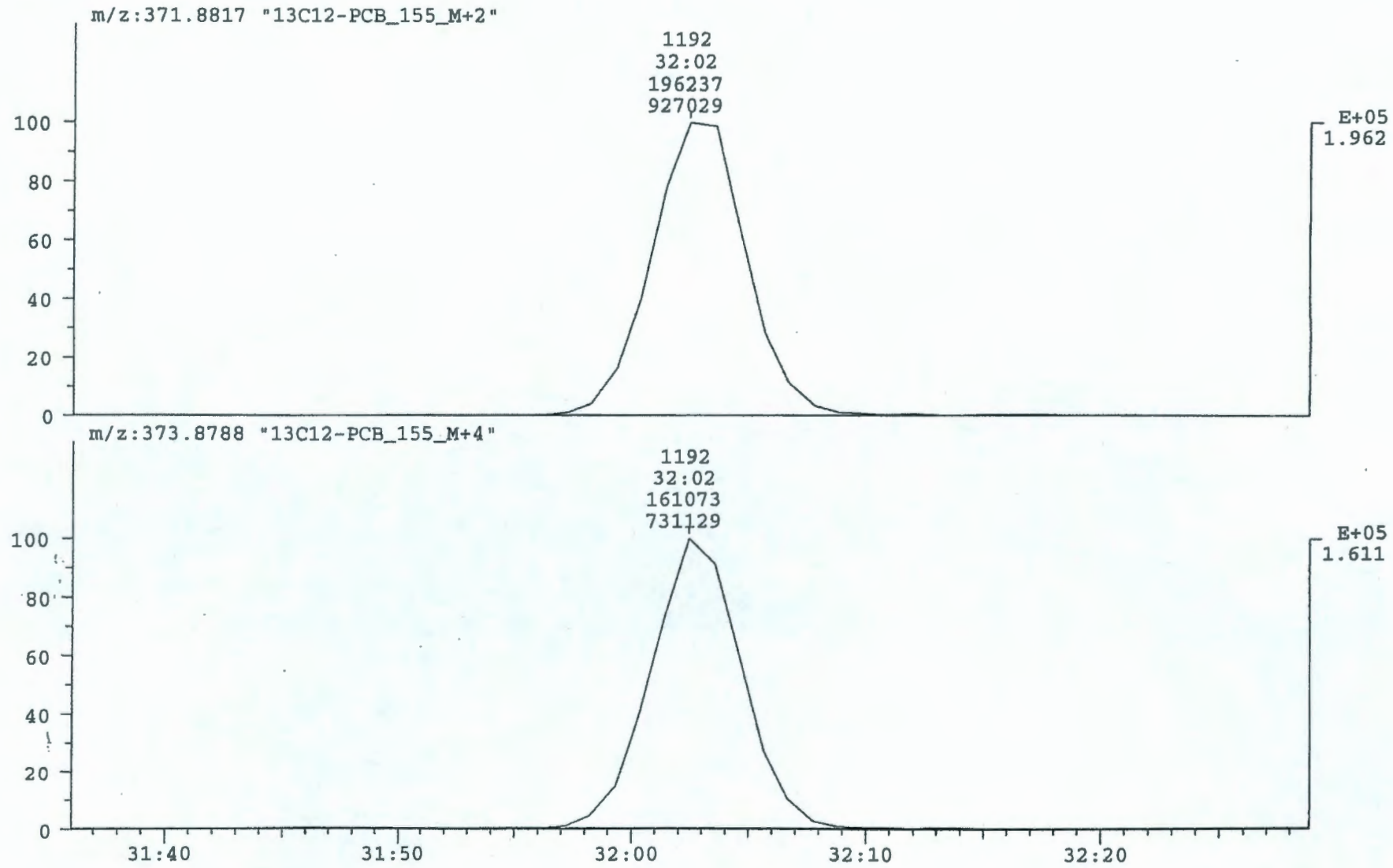
```
CHRO:  a07030742                                08-Mar-07  Elapse:  33:29      1274
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm    Label wndw:   1034 > 1514           Masses:  181 > 510
Area:  5, 0.50, 15    Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



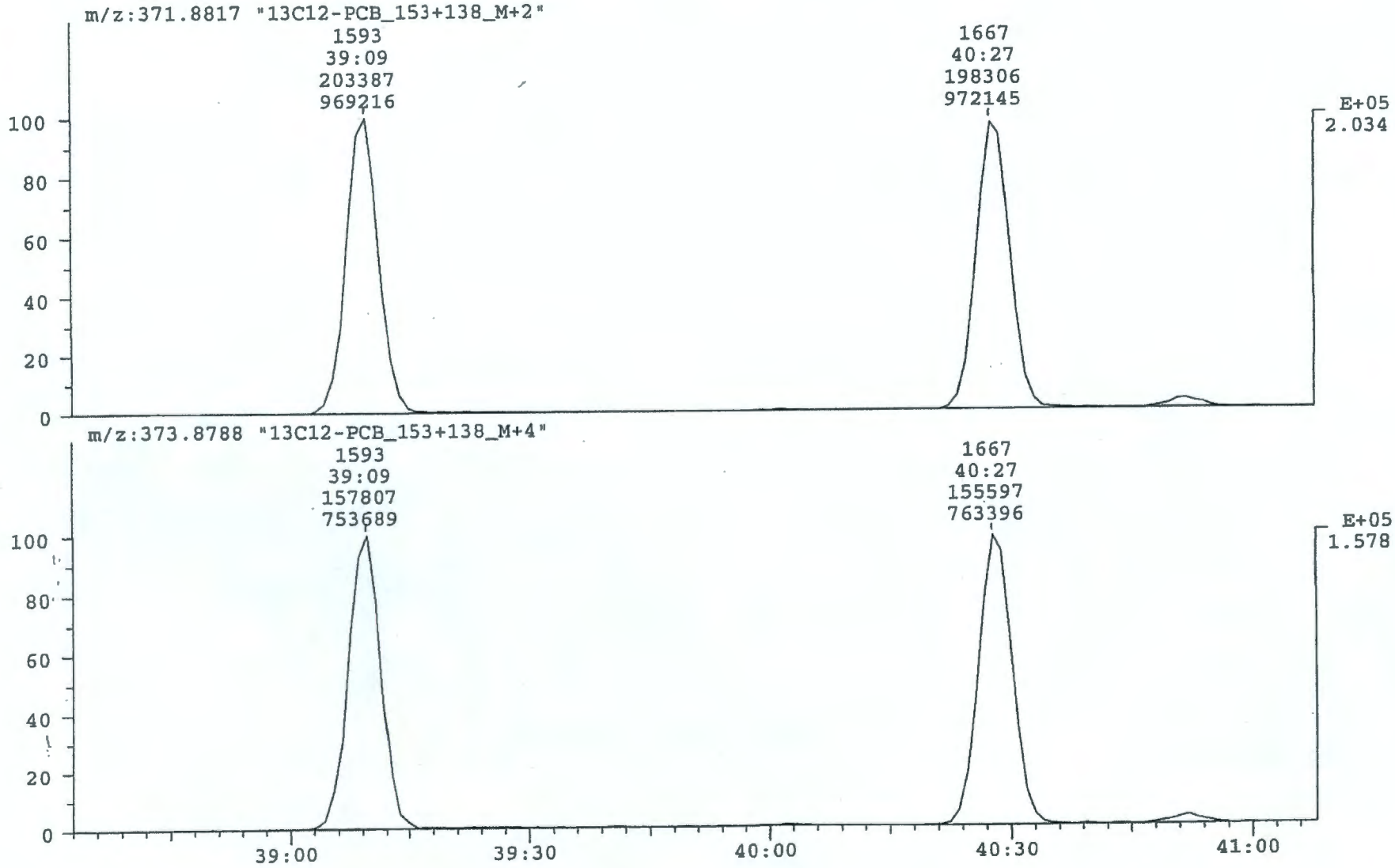
CHRO: a07030742 08-Mar-07 Elapse: 39:59 1640
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1160 > 2123 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



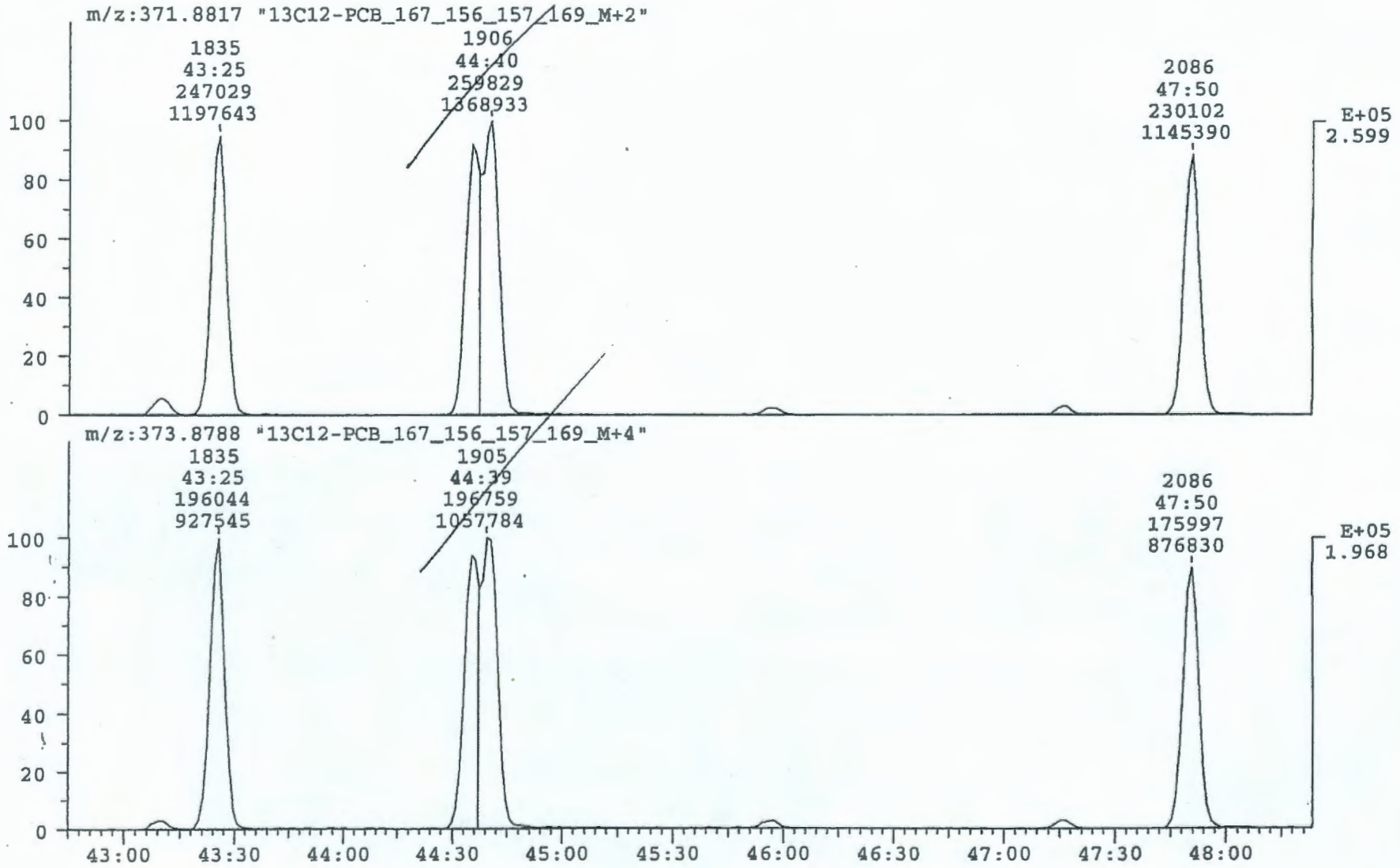
```
CHRO:  a07030742                                08-Mar-07  Elapse:  32:02      1192
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1167 > 1217         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



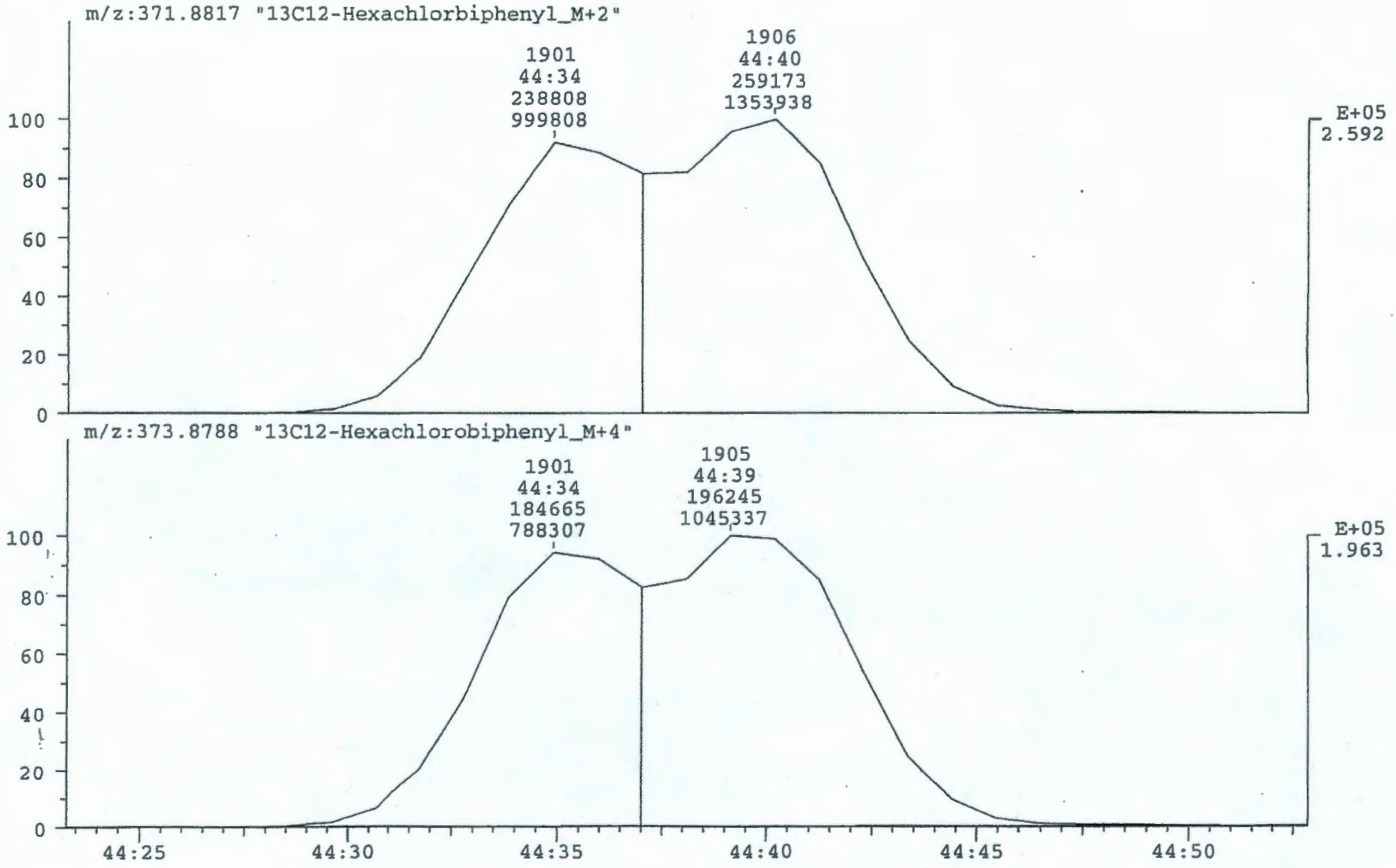
CHRO: a07030742 08-Mar-07 Elapse: 39:49 1631
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1558 > 1705 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



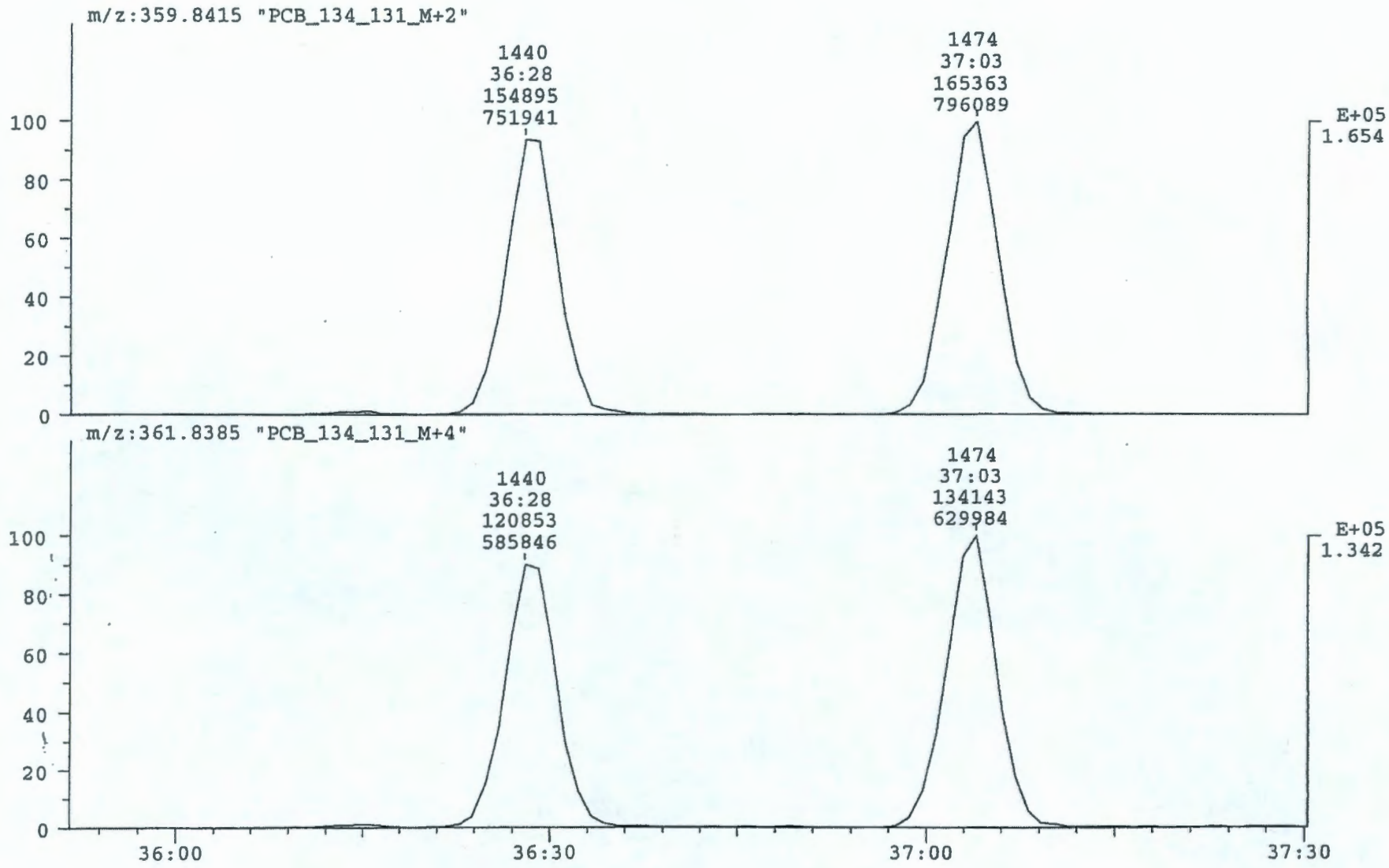
```
CHRO:  a07030742                                08-Mar-07  Elapse:  45:39      1962
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1797 > 2117         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



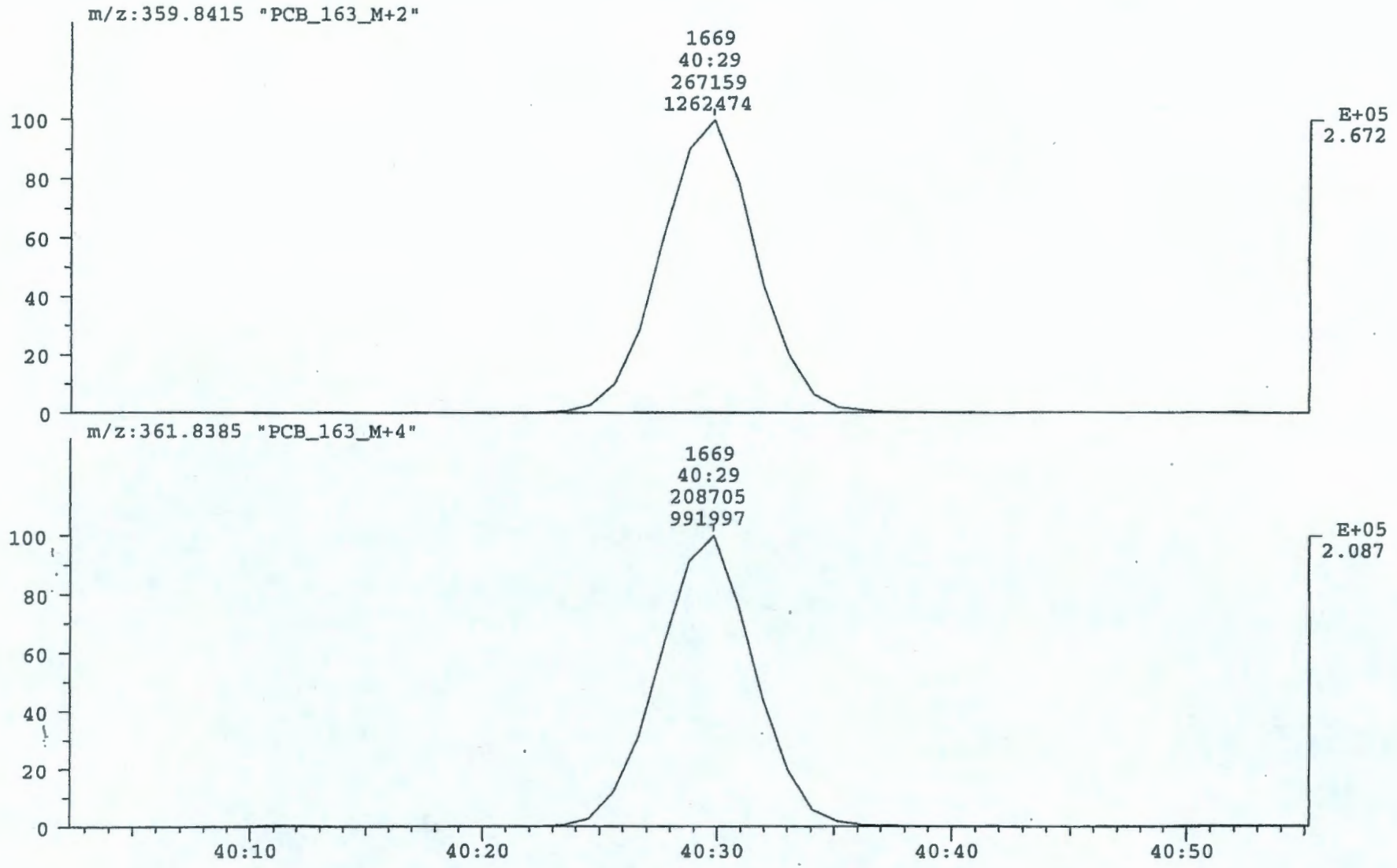
```
CHRO:  a07030742                                08-Mar-07  Elapse:  56:11      2555
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1890 > 1918         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



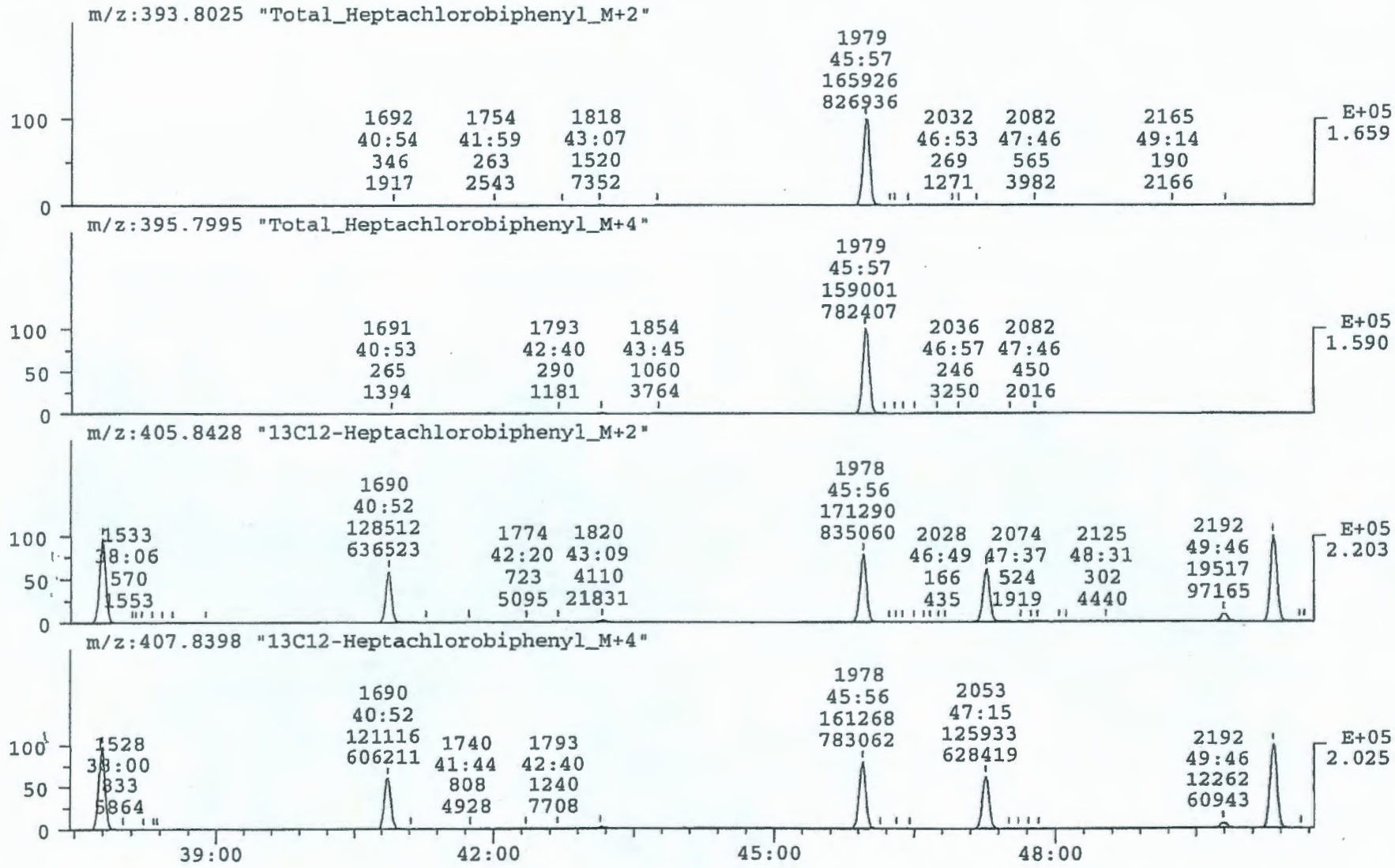
```
CHRO:  a07030742                                08-Mar-07   Elapse:  37:03      1474
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  6
Peak:  100.00  ppm     Label wndw:   1409 > 1499            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



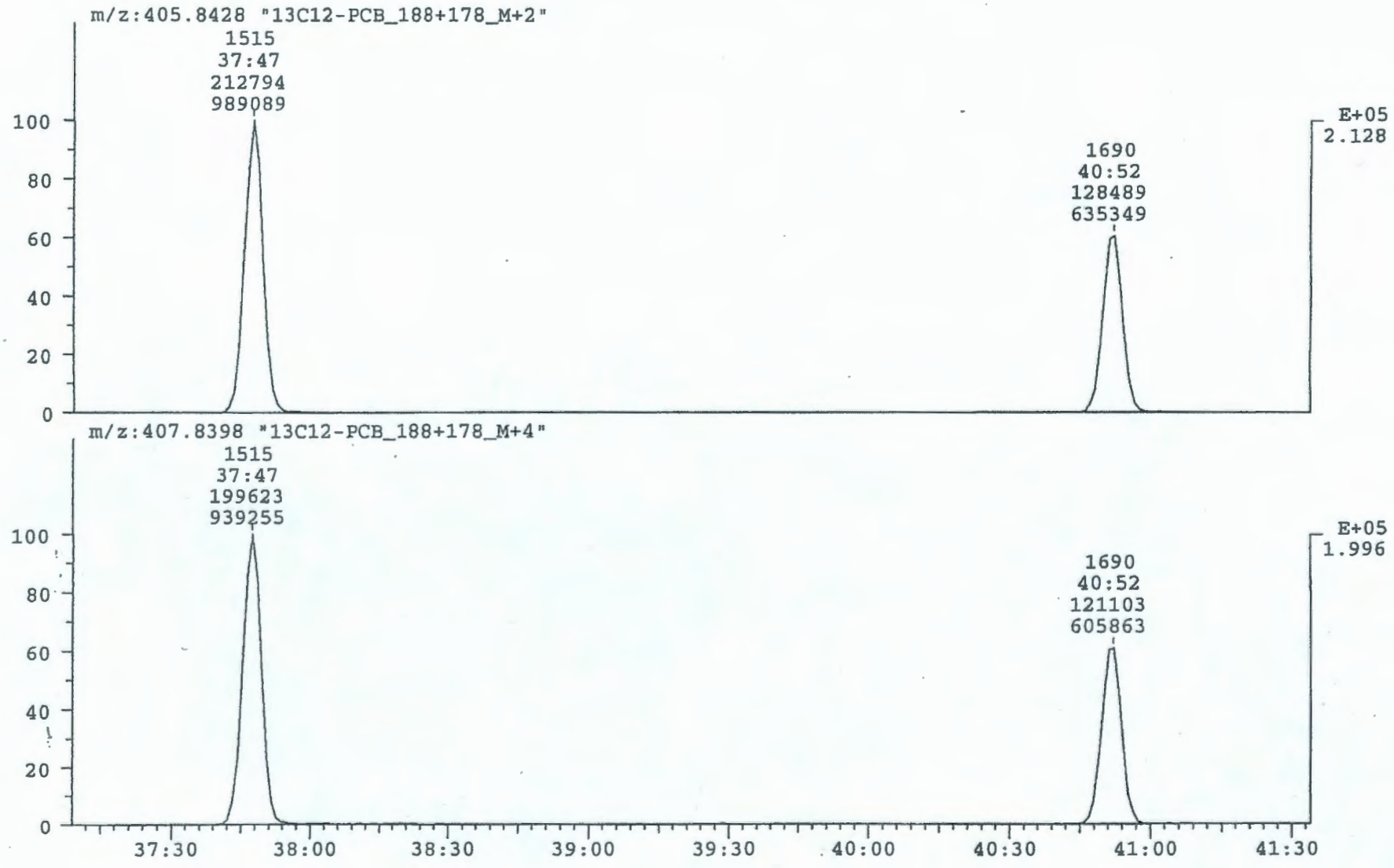
```
CHRO:  a07030742                                08-Mar-07  Elapse:  40:28      1668
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm     Label wndw:   1643 > 1693          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



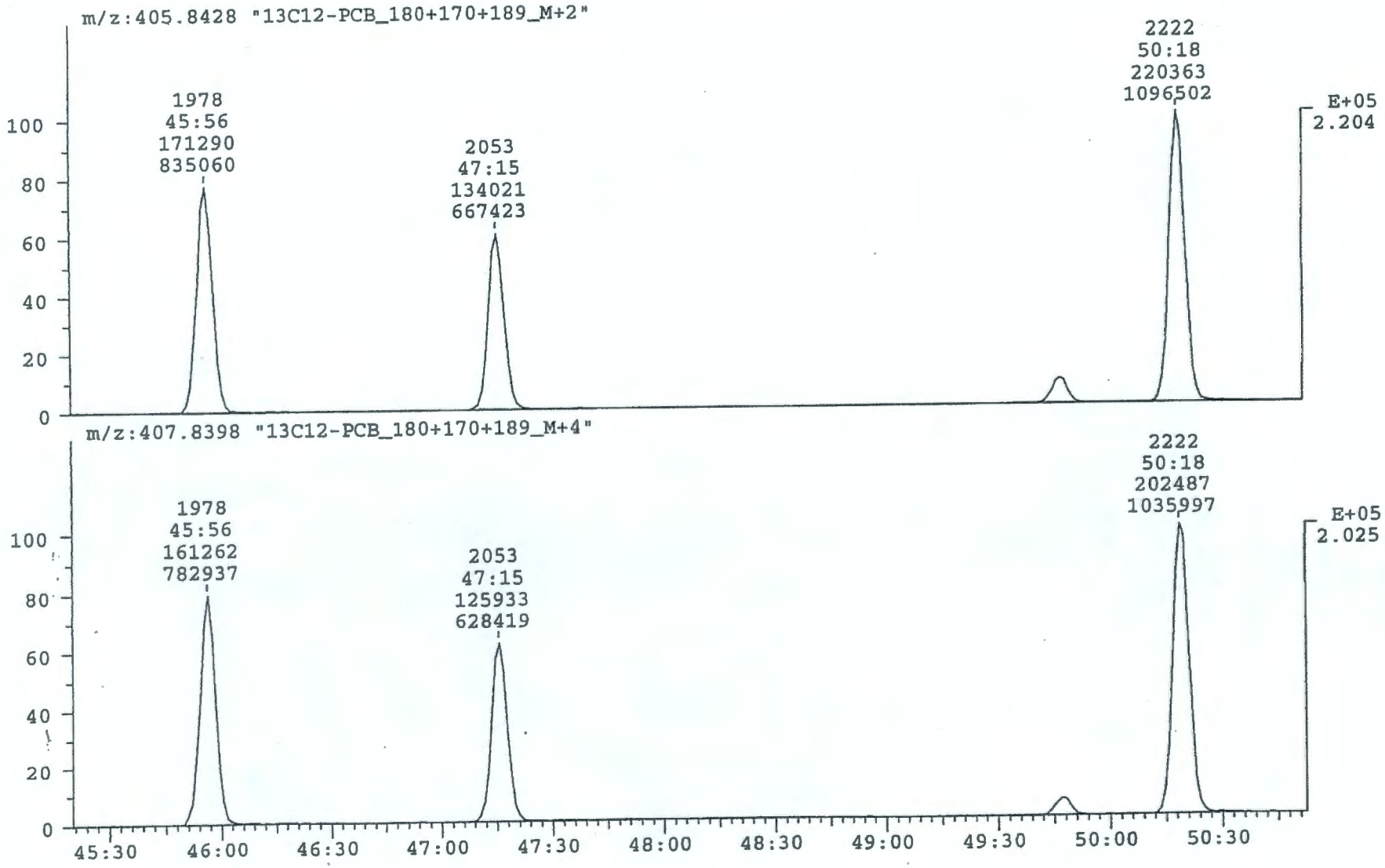
```
CHRO:  a07030742                                08-Mar-07   Elapse:  44:06      1874
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1496 > 2247           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



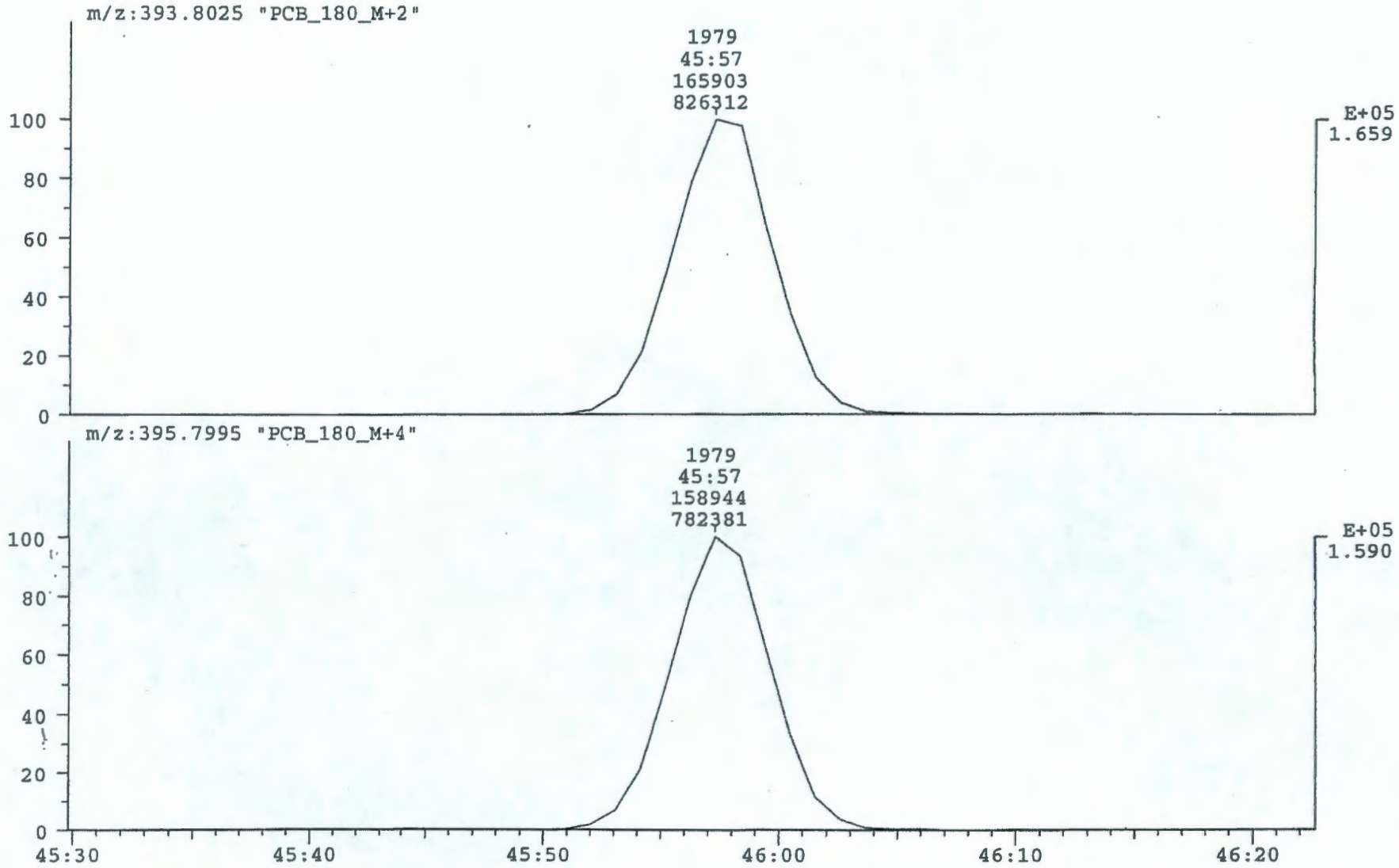
```
CHRO:  a07030742                                08-Mar-07   Elapse:  39:21      1604
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1479 > 1730           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



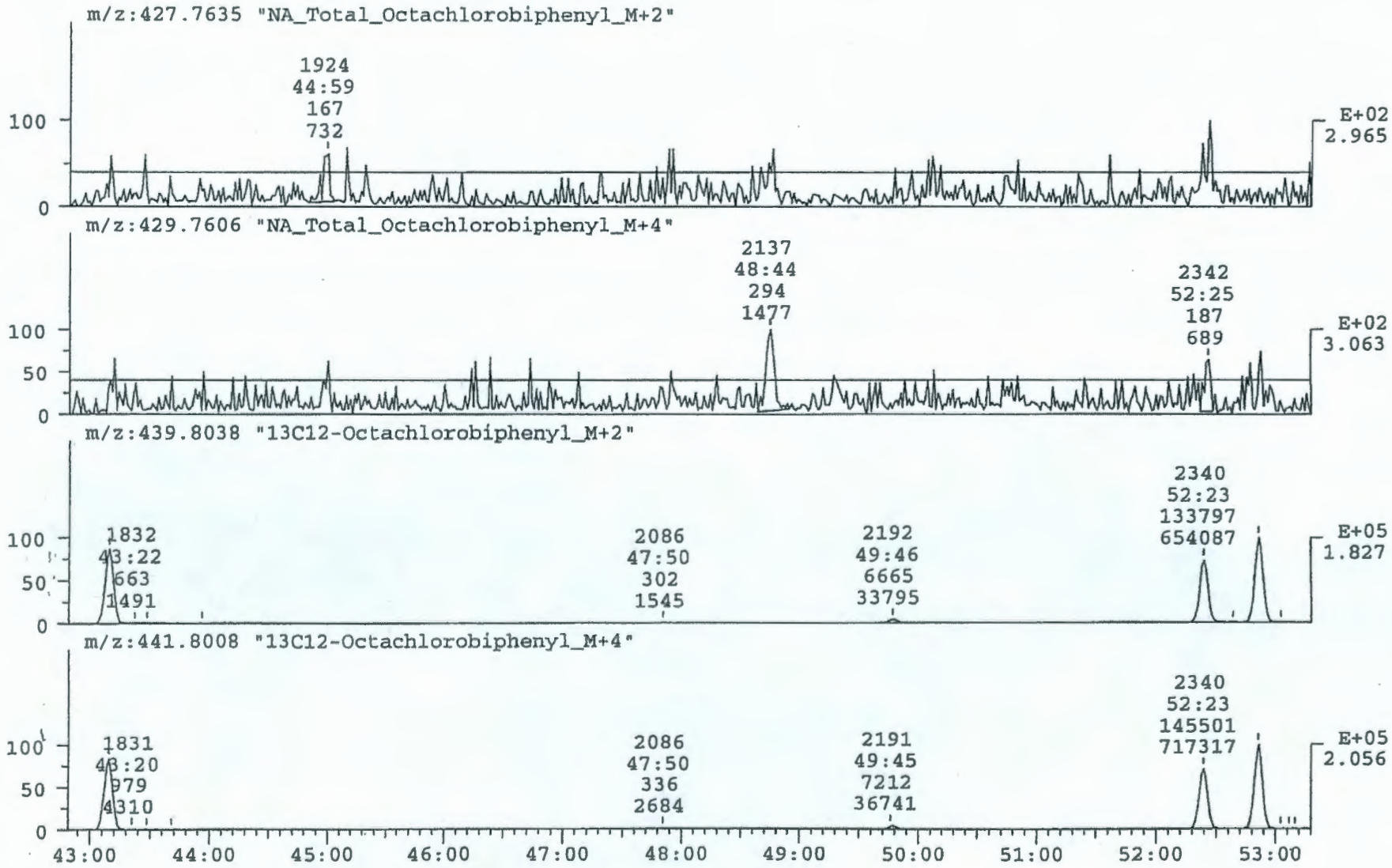
CHRO: a07030742 08-Mar-07 Elapse: 48:09 2104
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1944 > 2254 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



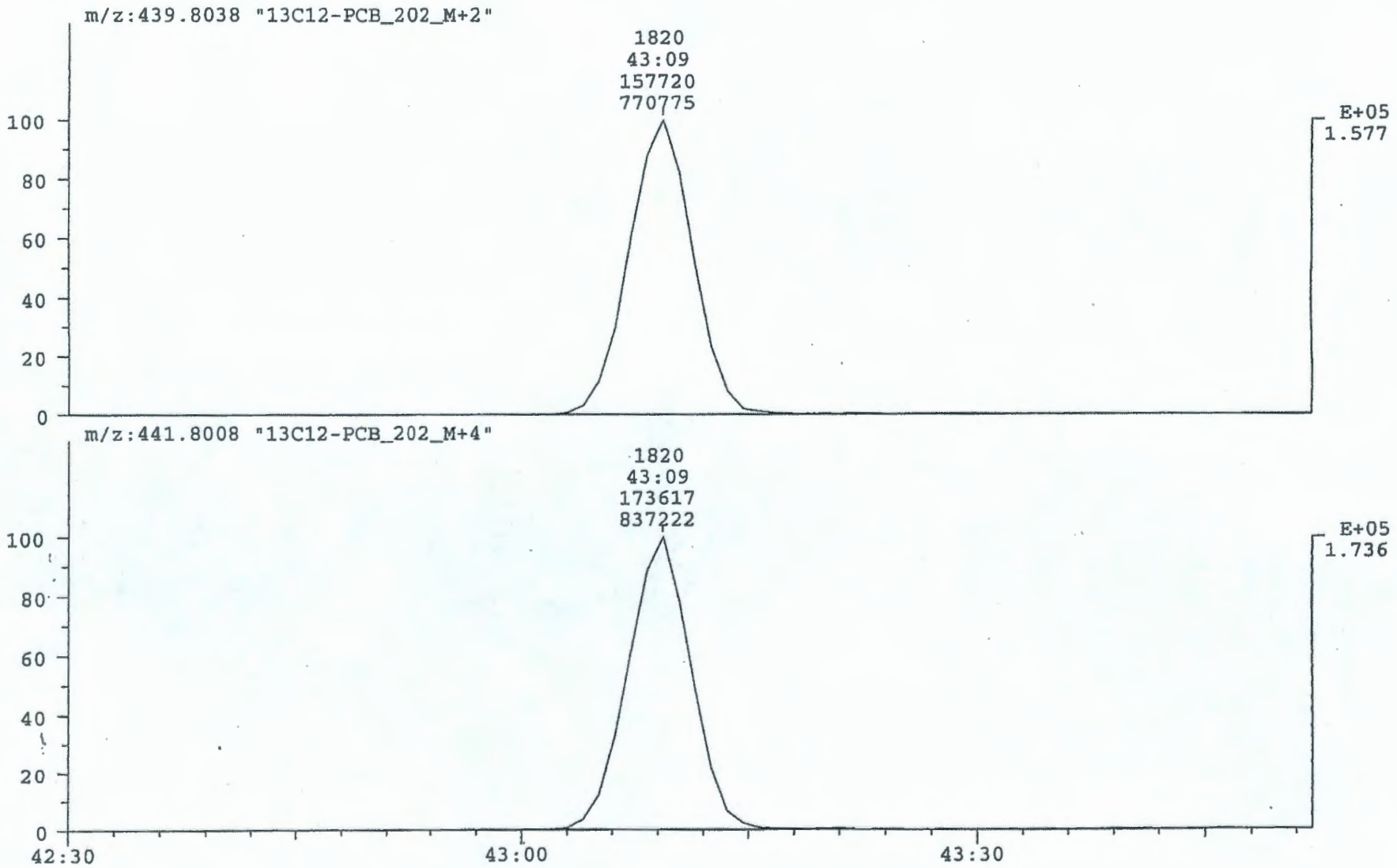
```
CHRO:  a07030742                                08-Mar-07  Elapse:  45:56      1978
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1953 > 2003         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



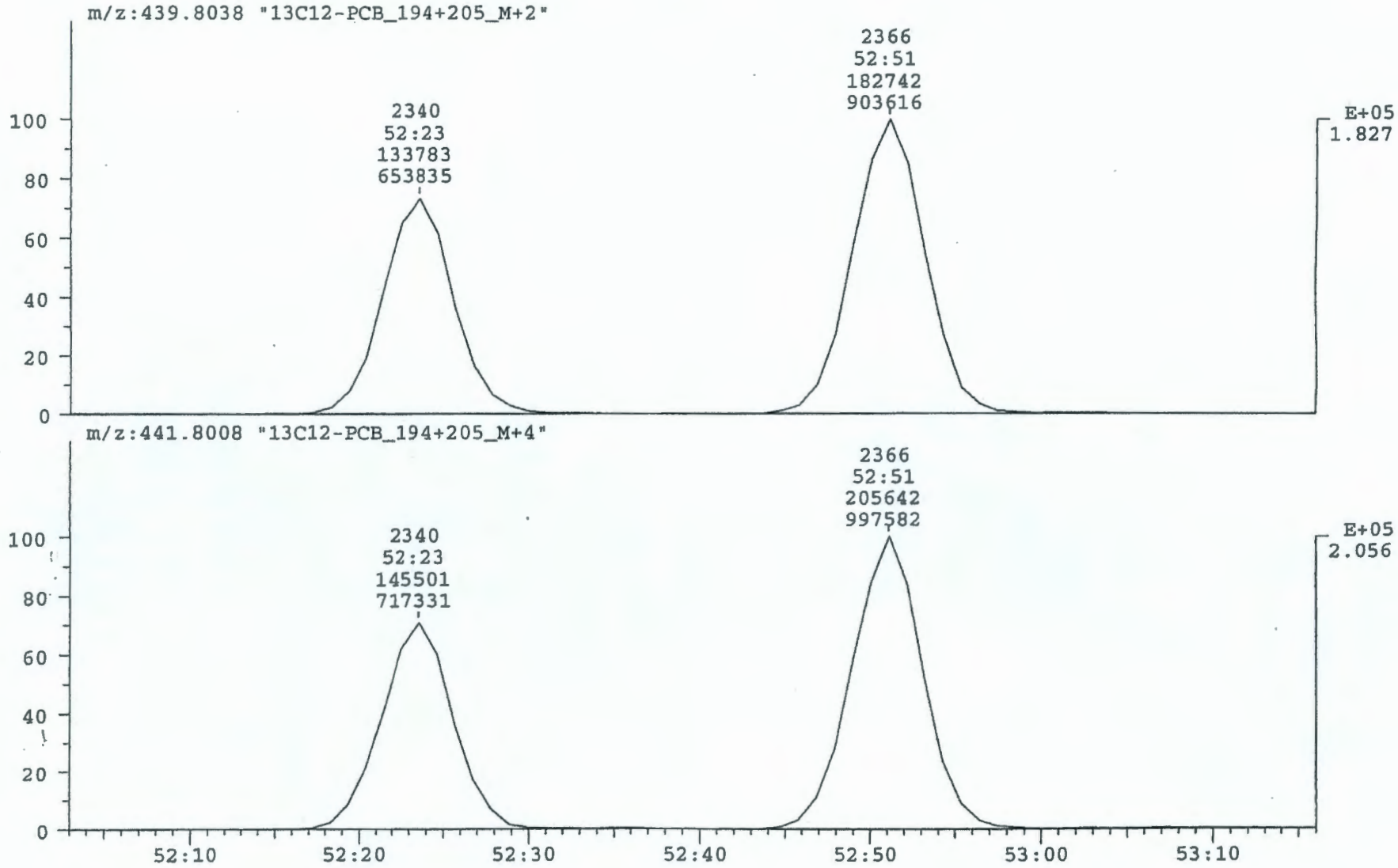
CHRO: a07030742 08-Mar-07 Elapse: 48:03 2098
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1801 > 2391 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



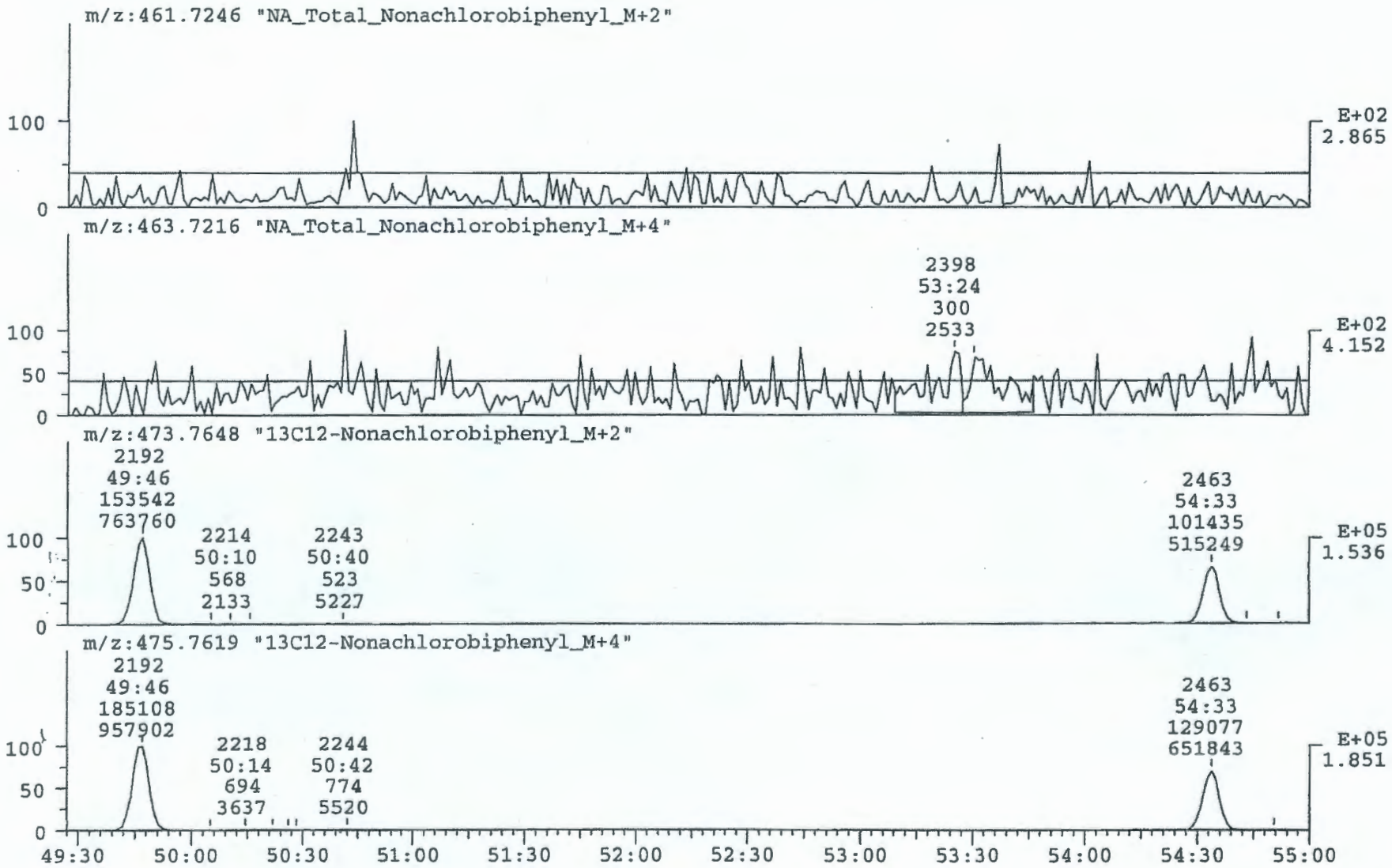
```
CHRO:  a07030742                                08-Mar-07  Elapse:  43:08      1819
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1783 > 1860         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



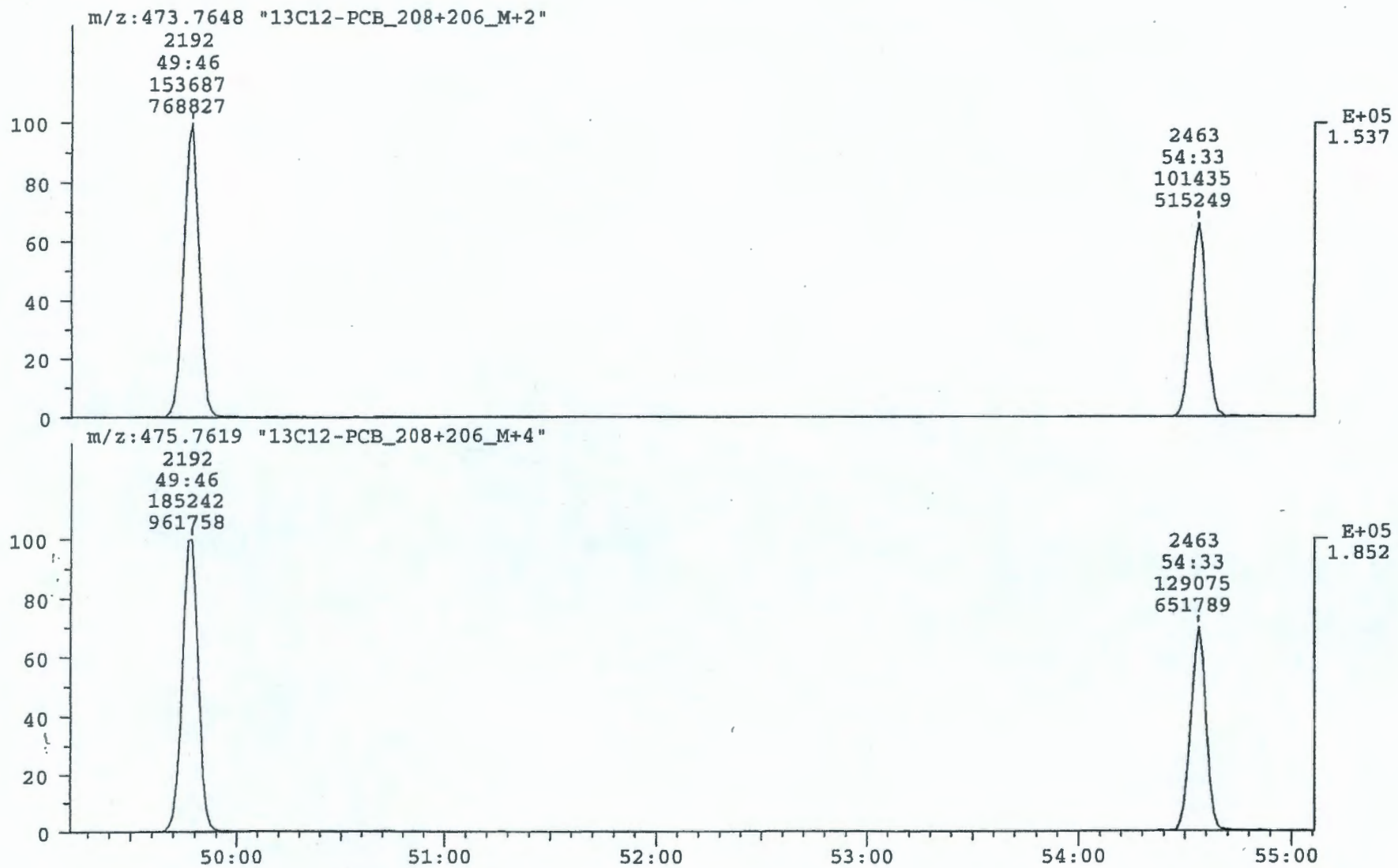
```
CHRO:  a07030742                                08-Mar-07   Elapse:  52:39      2355
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   2321 > 2390           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



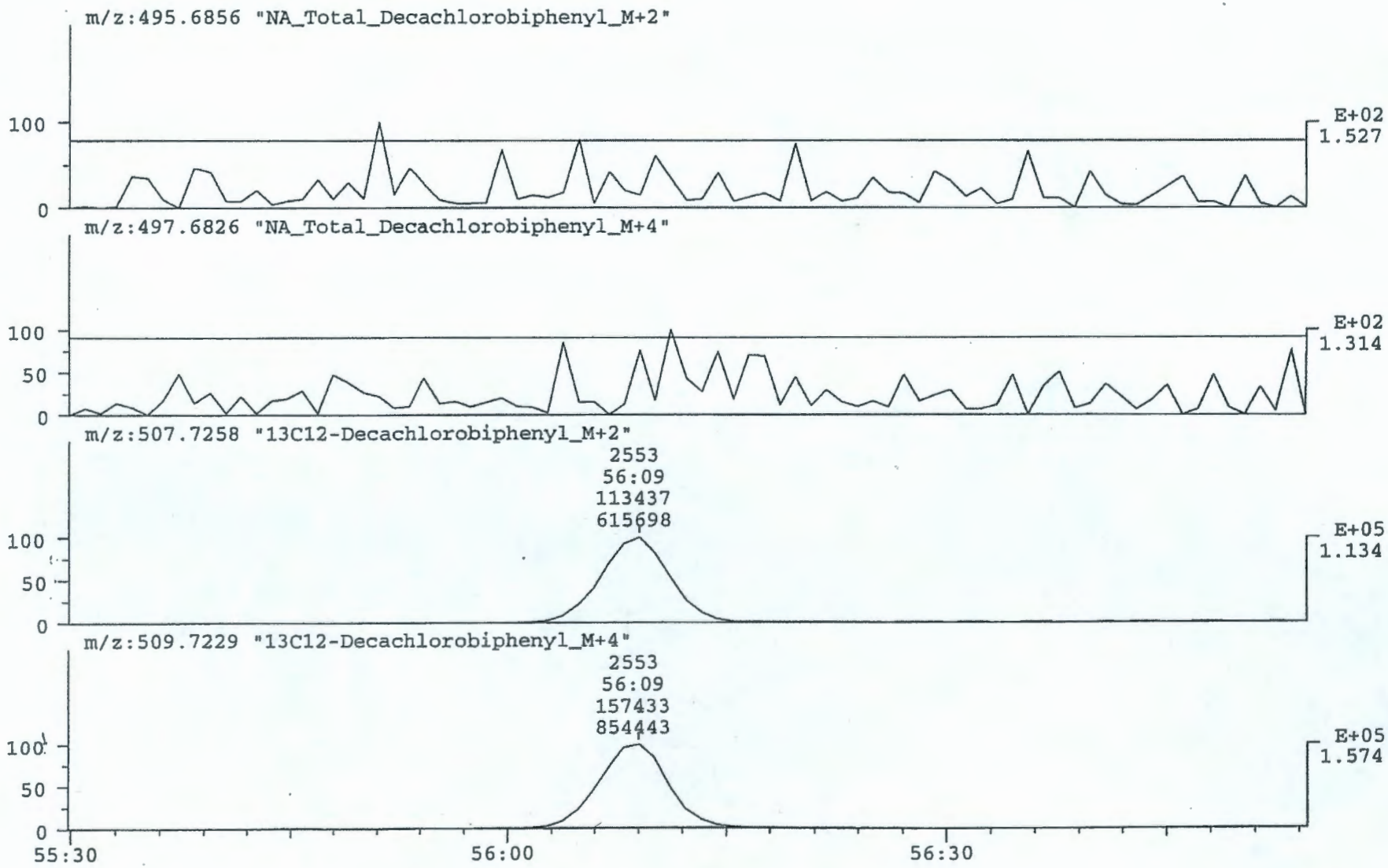
```
CHRO:  a07030742                                08-Mar-07   Elapse:  52:13      2330
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   2173 > 2488           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030742                                08-Mar-07   Elapse:  52:11      2329
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   2164 > 2494           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030742                              08-Mar-07   Elapse:  56:12      2556
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   2516 > 2596         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a07030742
Study: 1668 RT Mix4/Run2
Sample: WO=2990:75Mix4 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 6
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 9 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:01 min	14:03 min	36:04 min	1.00 sec
# 3	36:05 min	13:10 min	49:15 min	1.00 sec
# 4	49:16 min	7:44 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	1	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	l	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	l	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	l	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668n

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
Purge time 1.5 min
Purge flow 40.0 ml/min
Gas saver is on
Saver time 3.0 min
Saver flow 15.0 ml/min
Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	266.0000
FVINLET	253.0000	FVSRC	837.0000	FWIN	0.7000
GCTC	211.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.0980	HVANAL	1307.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4774.1100	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2606.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7000	TCURR	0.6641
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 01:17:09.7

Autosampler has injected sample from vial 6
MID Time Window 1: Resolution is 8226
MID Time Window 2: Resolution is 8406
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 8436
Analysis stopped at: 08-Mar-07 02:14:12.8 (run time 57.03 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030743.	Prep Date		SDG No	
Analysis ID	96250	Prep Exp Date		Date Received	
Analysis Date	03/08/07 06:25	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	170	323	68	129	0.53 *	/	
	13C12-PCB 1	12:12	00:00	0	2449549	767334	987924	298237	3.19	AVV/AVV	
	13C12-PCB 3	14:24	00:00	0	2411203	745995	761854	239639	3.23	AVV/AVV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	353	245	141	98	1.44	/	
	13C12-PCB 4	14:42	00:00	0	1022398	636656	341480	208536	1.61	AVV/ABV	
	13C12-PCB 9	16:39	00:00	0	1744097	1082783	521268	323728	1.61	ABV/ABV	
	13C12-PCB 8	17:32	00:00	0	1770670	1103608	483476	301747	1.60	AVV/AVV	
	13C12-PCB 15	20:40	00:00	0	1765568	1105977	464369	288816	1.60	ABV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	220	195	88	78	1.13	/	
	PCB 25 (BZ)	23:05	00:00	0	870439	829431	214736	206881	1.05	ABV/ABV	D
	PCB 21 (BZ)	23:54	00:00	0	809705	787339	196493	190996	1.03	AVV/AVV	D
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	560	343	224	137	1.64 *	/	
	13C12-PCB 19	17:52	00:00	0	625269	561393	166424	152736	1.11	AVV/AVV	
	13C12-PCB 32	21:08	00:00	0	1138054	1027083	286144	266999	1.11	AVV/ABV	
	13C12-PCB 31	23:23	00:00	0	1708671	1616140	420083	411244	1.06	AVV/ABV	
	13C12-PCB 28	23:40	00:00	0	1570855	1477920	370877	360951	1.06	AVV/AVV	
	13C12-PCB 37	27:45	00:00	0	1517439	1401089	339783	313670	1.08	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	260	278	104	111	0.94 *	/	
	PCB 69 (BZ)	25:55	00:00	0	1122356	1420868	271518	333468	0.79	ABV/ABV	
	PCB 47 (BZ)	26:34	00:00	0	957777	1217065	223980	276729	0.79	ABV/ABV	M
	PCB 42 (BZ)	27:06	00:00	0	806263	1024830	187801	237198	0.79	AVV/AVV	D
	PCB 64 (BZ)	27:49	00:00	0	1221544	1573996	279249	358578	0.78	ABV/AVV	D
	PCB 70 (BZ)	30:20	00:00	0	1254005	1599933	277802	350513	0.78	ABV/ABV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	153	153	61	61	1.00 *	/	
	13C12-PCB 54	21:01	00:00	0	534425	653953	138539	162839	0.82	ABV/ABV	
	13C12-PCB 52	25:32	00:00	0	814065	1020770	186408	235072	0.80	ABV/ABV	
	13C12-PCB 79	33:27	00:00	0	1134857	1434285	243724	308111	0.79	AVV/ABV	
	13C12-PCB 81	34:29	00:00	0	1036649	1282692	217859	268490	0.81	ABV/ABV	D
	13C12-PCB 77	35:04	00:00	0	1074330	1328208	219013	266424	0.81	ABB/ABV	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	185	183	74	73	1.01 *	/	
	PCB 102 (BZ)	29:49	00:00	0	1047098	654742	229144	138970	1.60	ABV/ABV	
	PCB 97 (BZ)	33:30	00:00	0	949507	597831	208156	129527	1.59	ABV/ABV	DM
	PCB 115 (BZ)	34:24	00:00	0	1362730	862574	290715	177859	1.58	AVV/AVV	DM

Notes:
R = ratio is outside limits M = data changed manually H = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dop match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030743.	Prep Date		SDG No	
Analysis ID	96250	Prep Exp Date		Date Received	
Analysis Date	03/08/07 06:25	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	PCB 123 (BZ)	37:01	00:00	0	1602814	1042040	332019	214183	1.54	AVV/ABV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	168	160	67	64	1.05 *	/	
	13C12-PCB 104	26:27	00:00	0	1203766	745094	276405	174661	1.62	ABV/ABV	D
	13C12-PCB 95	29:29	00:00	0	915447	560783	207340	126946	1.63	ABV/ABV	D
	13C12-PCB 101	32:20	00:00	0	967915	608470	209236	131482	1.59	AVV/AVV	
	13C12-PCB 111	34:58	00:00	0	1218881	750278	272812	161827	1.62	ABV/ABV	
	13C12-PCB 123	37:00	00:00	0	1464135	924100	304791	196392	1.58	ABV/ABV	D
	13C12-PCB 118	37:19	00:00	0	1541932	959064	320113	205467	1.61	AVV/AVV	D
	13C12-PCB 114	37:51	00:00	0	1487558	923413	301081	191095	1.61	AVV/AVV	D
	13C12-PCB 105	38:34	00:00	0	1433361	915252	298662	187549	1.57	ABV/AVV	D
	13C12-PCB 127	39:57	00:00	0	1602834	989611	331849	201605	1.62	ABV/ABV	
	13C12-PCB 126	41:37	00:00	0	1509767	952723	306078	192081	1.58	ABV/AVV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	178	168	71	67	1.06	/	
	PCB 134 (BZ)	36:27	00:00	0	791388	621341	172103	132749	1.27	ABV/ABV	D
	PCB 131 (BZ)	37:02	00:00	0	854092	675105	181398	142948	1.27	AVV/AVV	D
	PCB 163 (BZ)	40:28	00:00	0	1334842	1059907	277567	225386	1.26	ABV/ABV	M
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	140	163	56	65	0.86 *	/	
	13C12-PCB 155	32:01	00:00	0	993428	788168	211640	166555	1.26	ABV/ABV	D
	13C12-PCB 153	39:07	00:00	0	1022319	792413	217184	171115	1.29	ABV/ABV	D
	13C12-PCB 138	40:27	00:00	0	1034027	807271	211974	164392	1.28	ABV/ABV	
	13C12-PCB 167	43:23	00:00	0	1262577	991620	269868	209129	1.27	AVV/AVV	
	13C12-PCB 156	44:33	00:00	0	1010190	991549	252020	198966	1.02 *	ABV/ABV	RD
	13C12-PCB 157	44:38	00:00	0	1455766	955520	278267	218155	1.52 *	AVB/AVB	RM
	13C12-PCB 169	47:48	00:00	0	1225304	957494	246062	191649	1.28	AVV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	125	315	50	126	0.40 *	/	
	PCB 180 (BZ)	45:55	00:00	0	851394	825913	177924	169594	1.03	ABV/ABV	DM
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	163	160	65	64	1.02	/	
	13C12-PCB 188	37:45	00:00	0	1057622	998375	226094	214478	1.06	ABV/ABV	D
	13C12-PCB 178	40:50	00:00	0	676746	635170	138826	131535	1.07	ABV/ABV	
	13C12-PCB 180	45:54	00:00	0	891894	839734	186327	179399	1.06	ABV/ABV	
	13C12-PCB 170	47:13	00:00	0	716967	681810	138641	139157	1.05	AVV/AVV	
	13C12-PCB 189	50:17	00:00	0	1153822	1105589	228975	218909	1.04	ABV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	205	115	82	46	1.78 *	/	
	13C12-PCB 202	43:07	00:00	0	806939	875671	164603	181077	0.92	ABV/ABV	D
	13C12-PCB 194	52:22	00:00	0	692366	757002	135404	148548	0.91	ABV/ABV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030743.	Prep Date		SDG No	
Analysis ID	96250	Prep Exp Date		Date Received	
Analysis Date	03/08/07 06:25	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

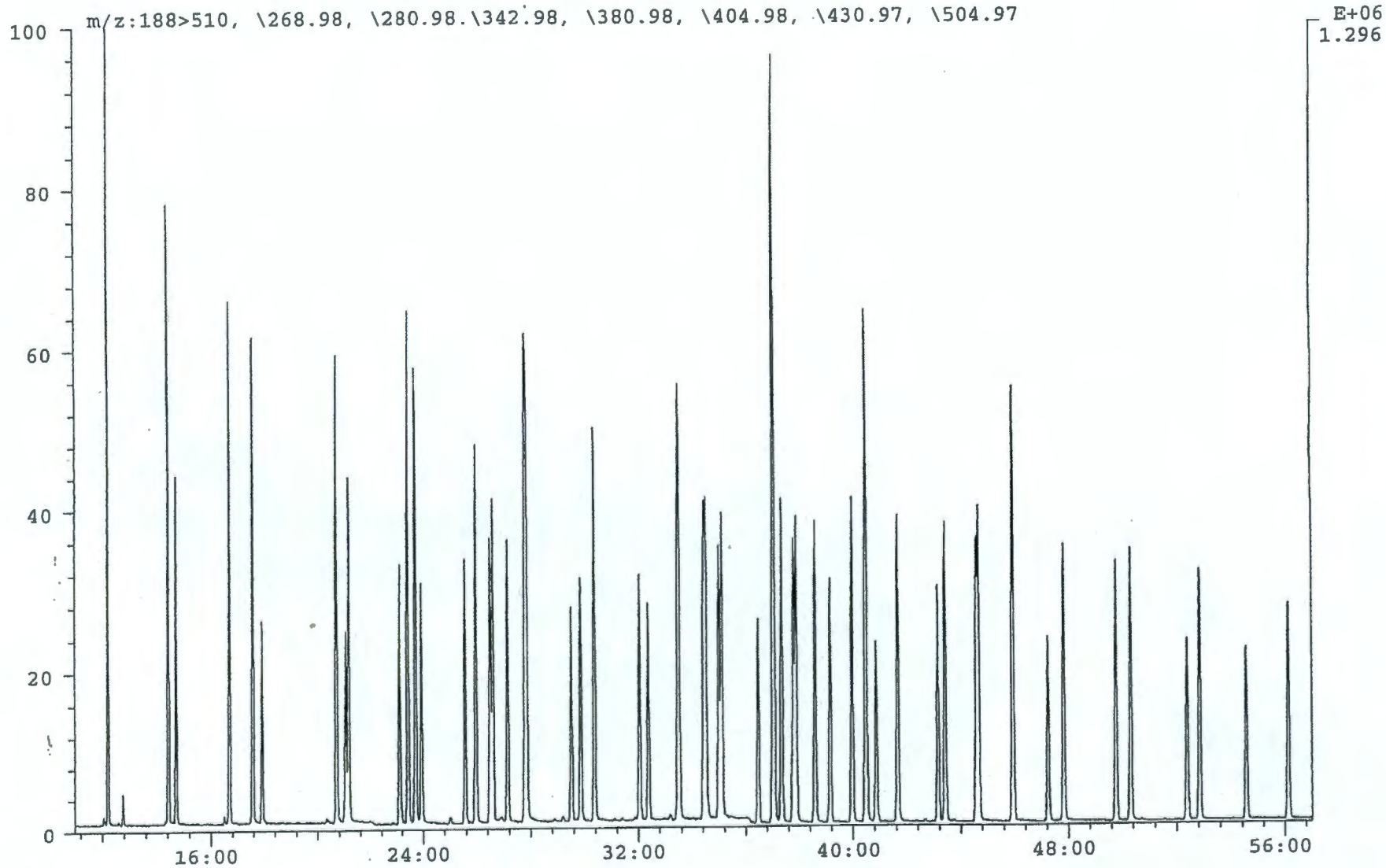
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02	
	13C12-PCB 205	52:49	00:00	0	962393	1066196	186938	206159	0.90	ABV/AVV
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89	
	Noise	00:00	00:00	0	0	0	0	0	0.00 *	
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89	
	Noise	00:00	00:00	0	175	163	70	65	1.08 *	/
	13C12-PCB 208	49:45	00:00	0	816427	1037178	162845	210398	0.79	AVV/AVV
	13C12-PCB 206	54:32	00:00	0	540467	693444	103121	133516	0.78	ABV/ABV
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79	
	Noise	00:00	00:00	0	0	0	0	0	0.00 *	
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79	
	Noise	00:00	00:00	0	133	128	53	51	1.04 *	/
	13C12-PCB 209	56:06	00:00	0	647048	916404	115275	168443	0.71	ABV/ABV

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

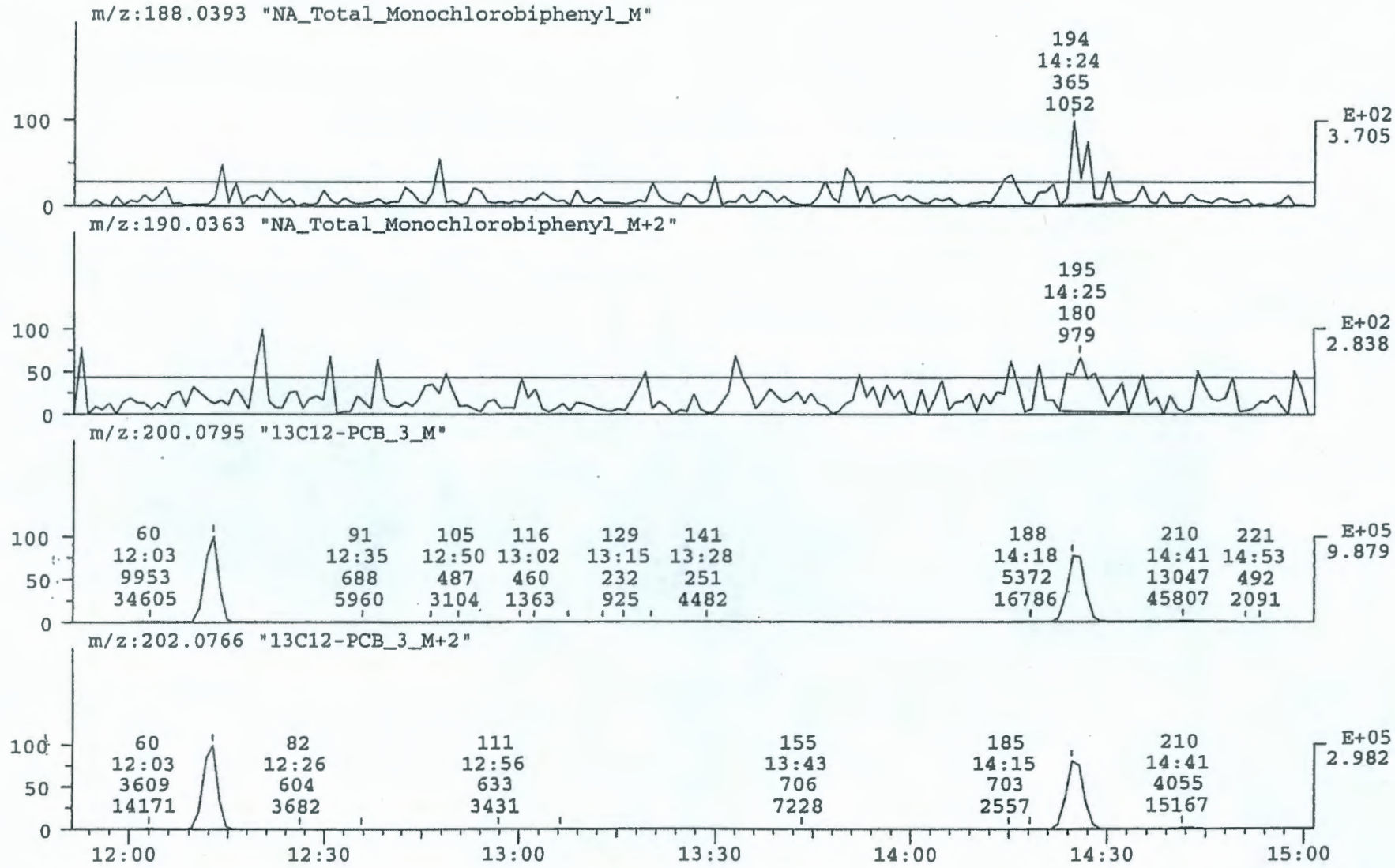
In+Drs 3-1707
Cal Drs 3-1907
QC BYW 3/19/07

CHRO: a07030743 08-Mar-07 Elapse: 56:13 2556
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 2 > 2601 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

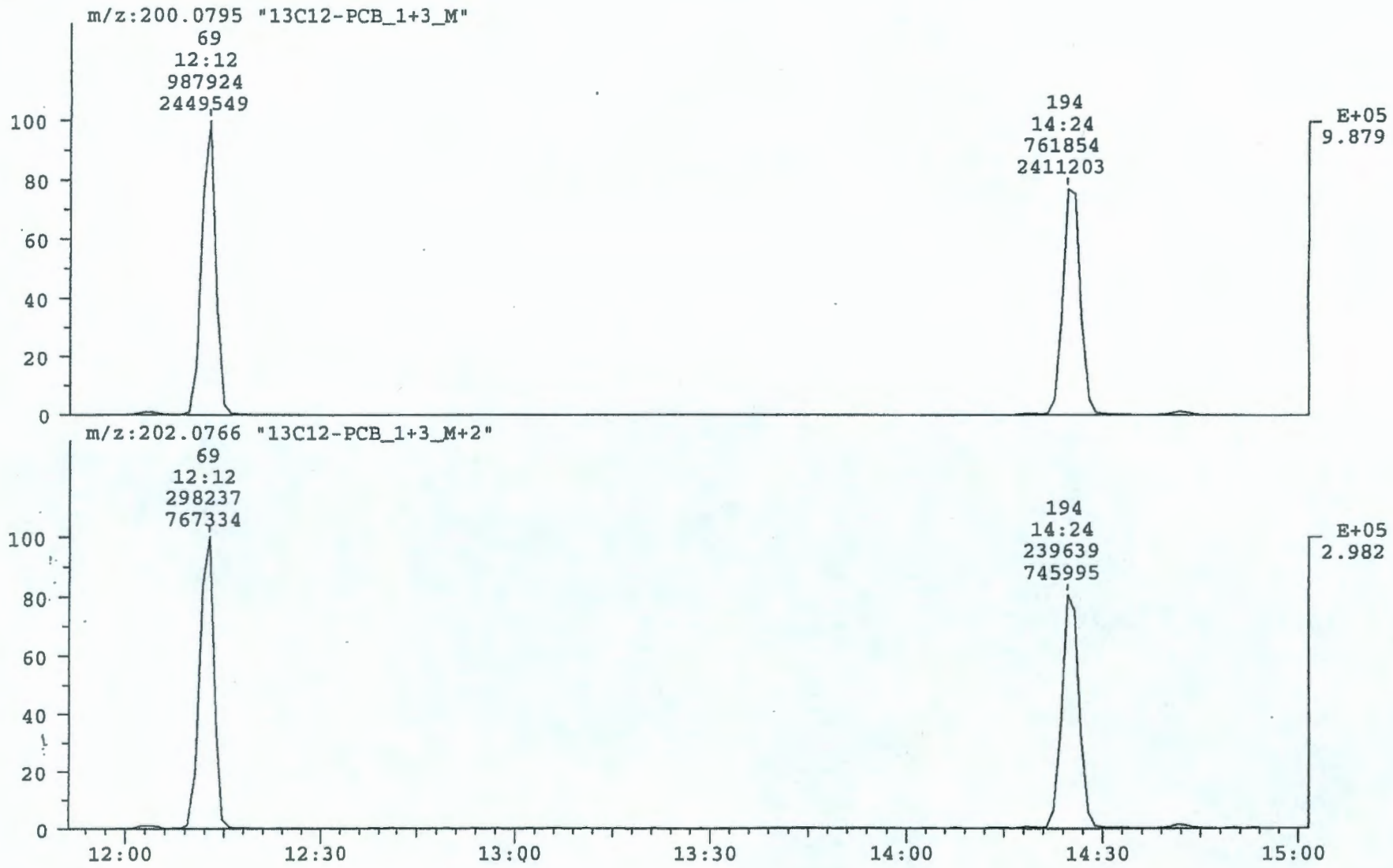


1869

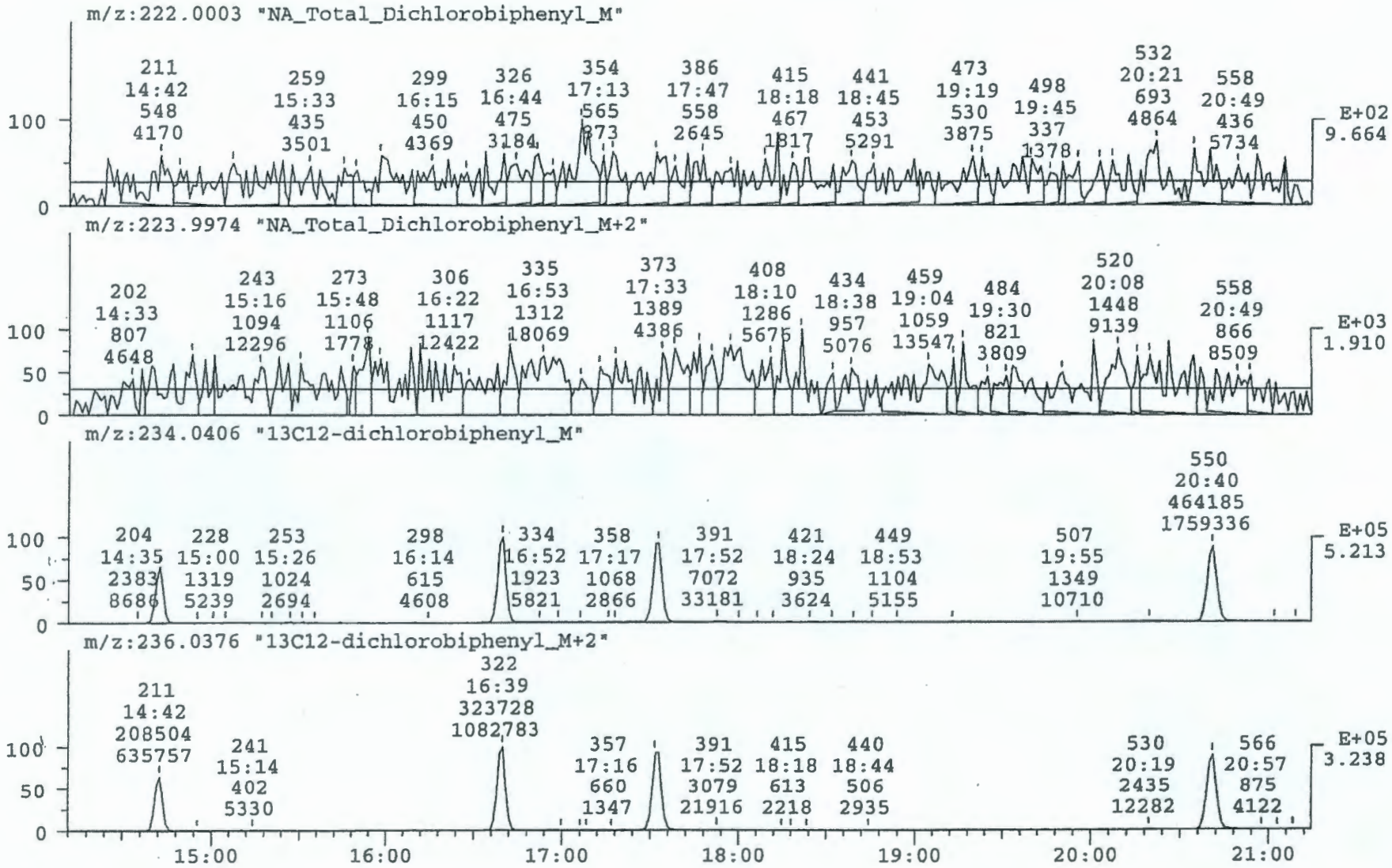
```
CHRO:  a07030743                                08-Mar-07   Elapse:  13:26.4      139
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   49 > 229              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



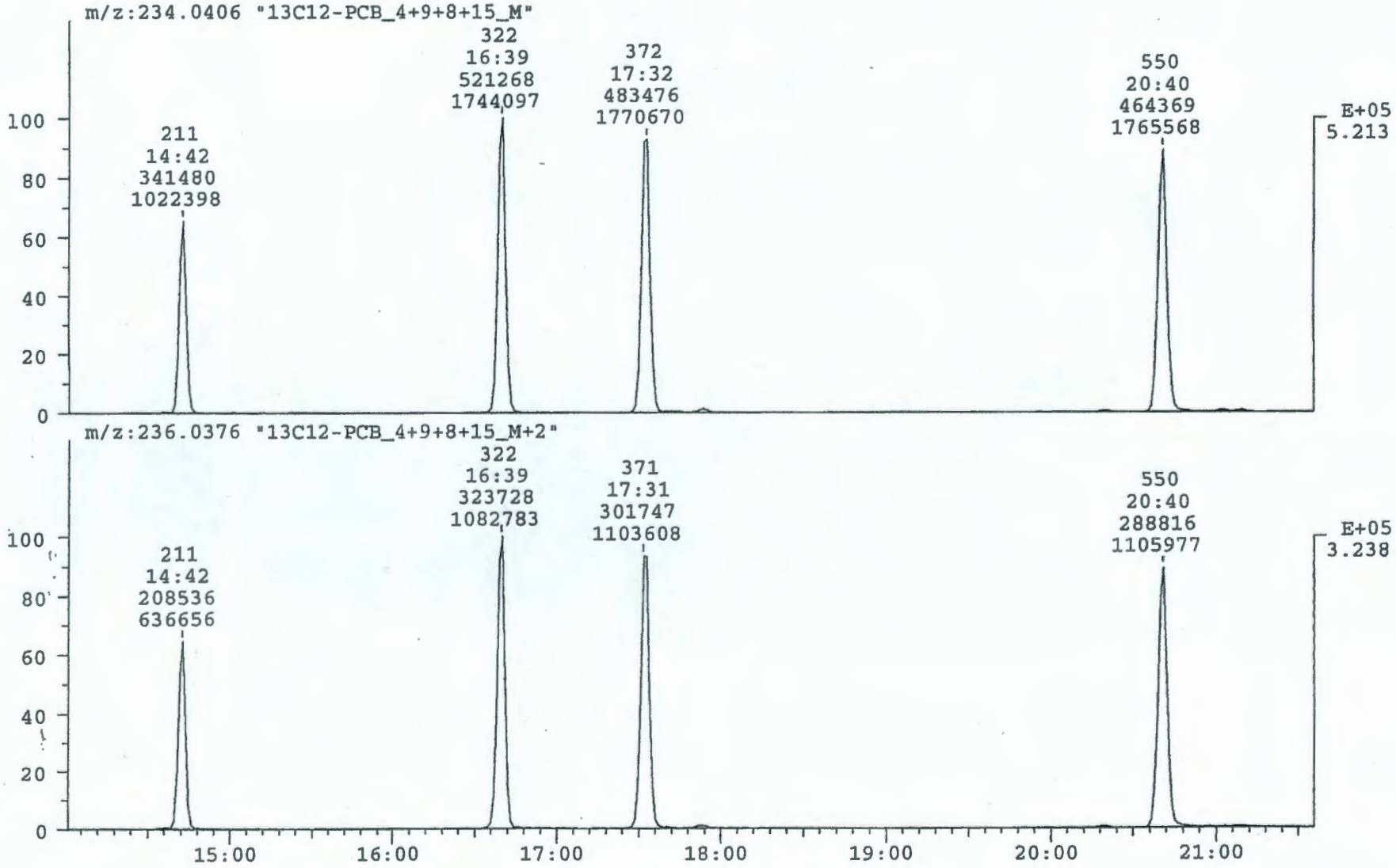
```
CHRO:  a07030743                                08-Mar-07   Elapse:  13:26.4      139
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   49 > 229              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



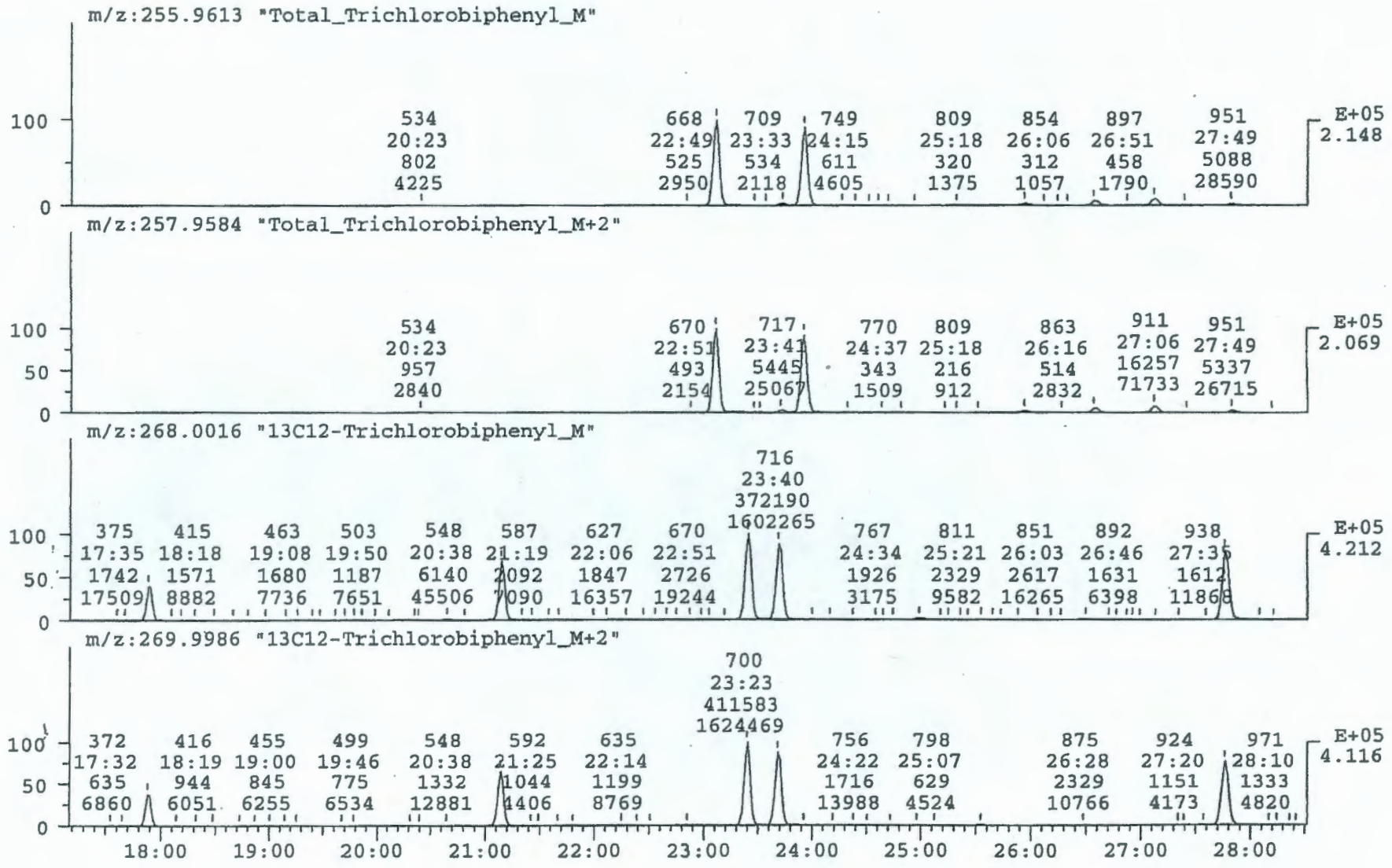
CHRO: a07030743 08-Mar-07 Elapse: 17:43.1 382
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 182 > 582 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



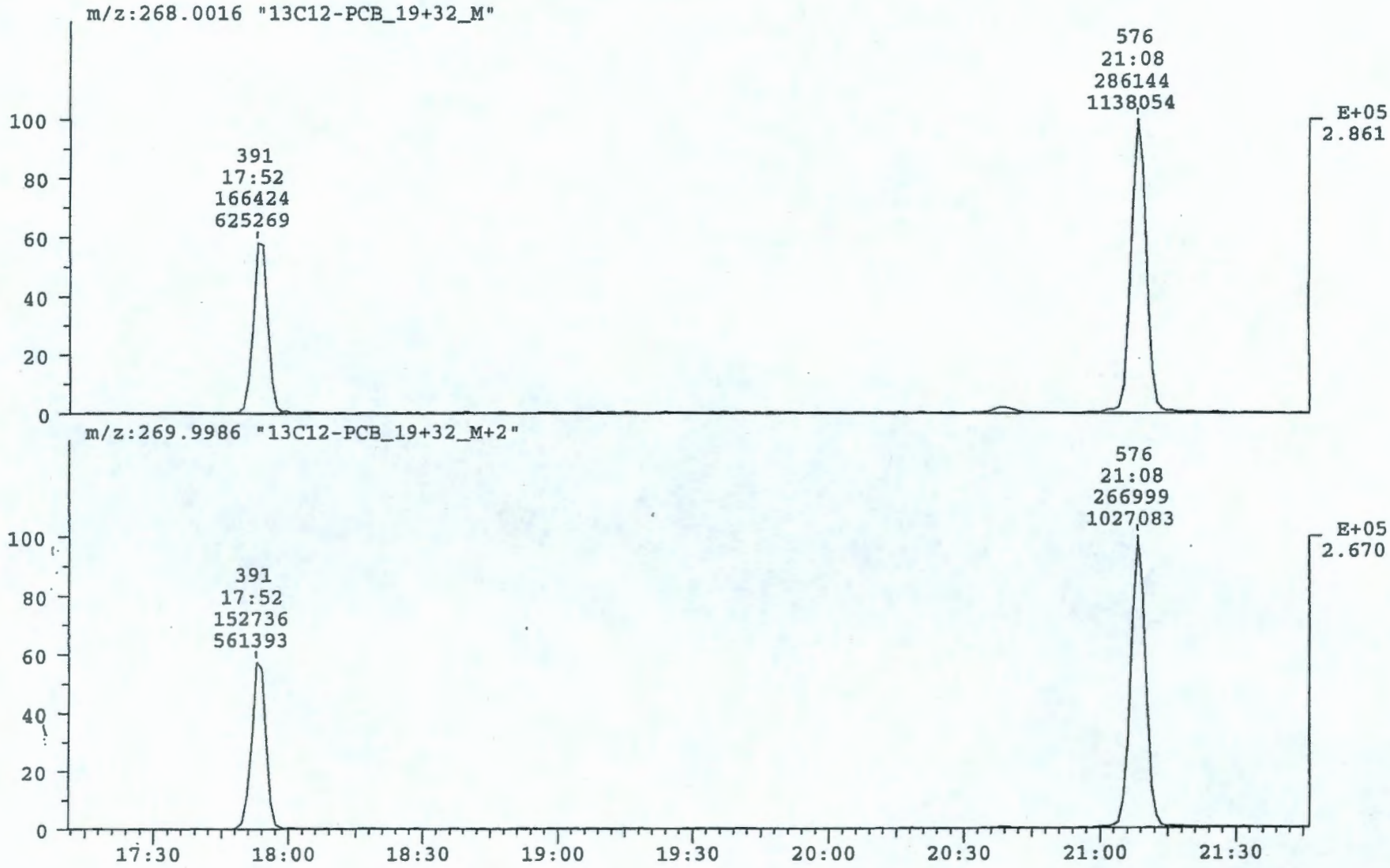
```
CHRO:  a07030743                                08-Mar-07   Elapse:  17:43.1      382
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   172 > 602             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



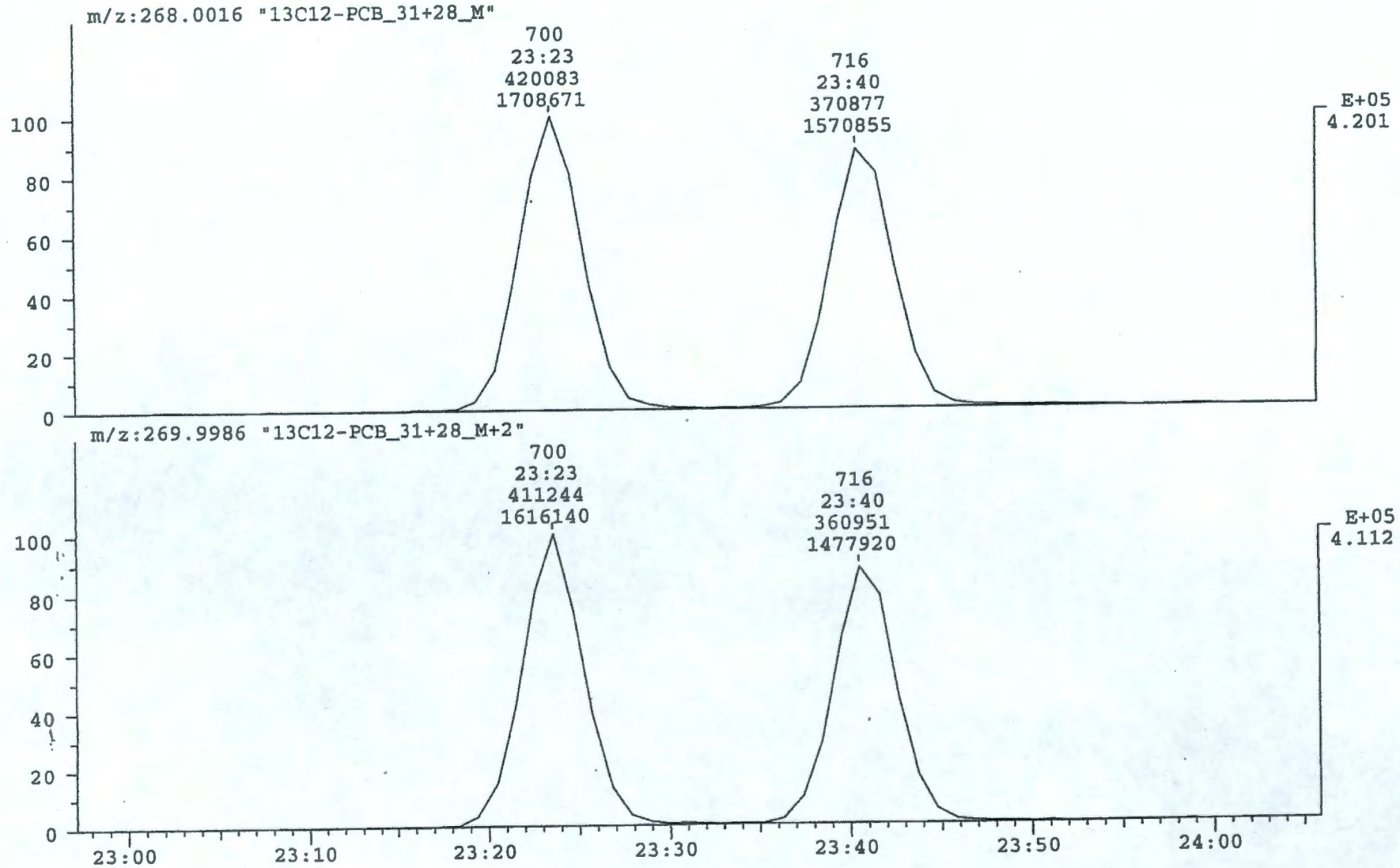
```
CHRO:  a07030743                                08-Mar-07   Elapse:  22:53.9      671
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   351 > 991             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



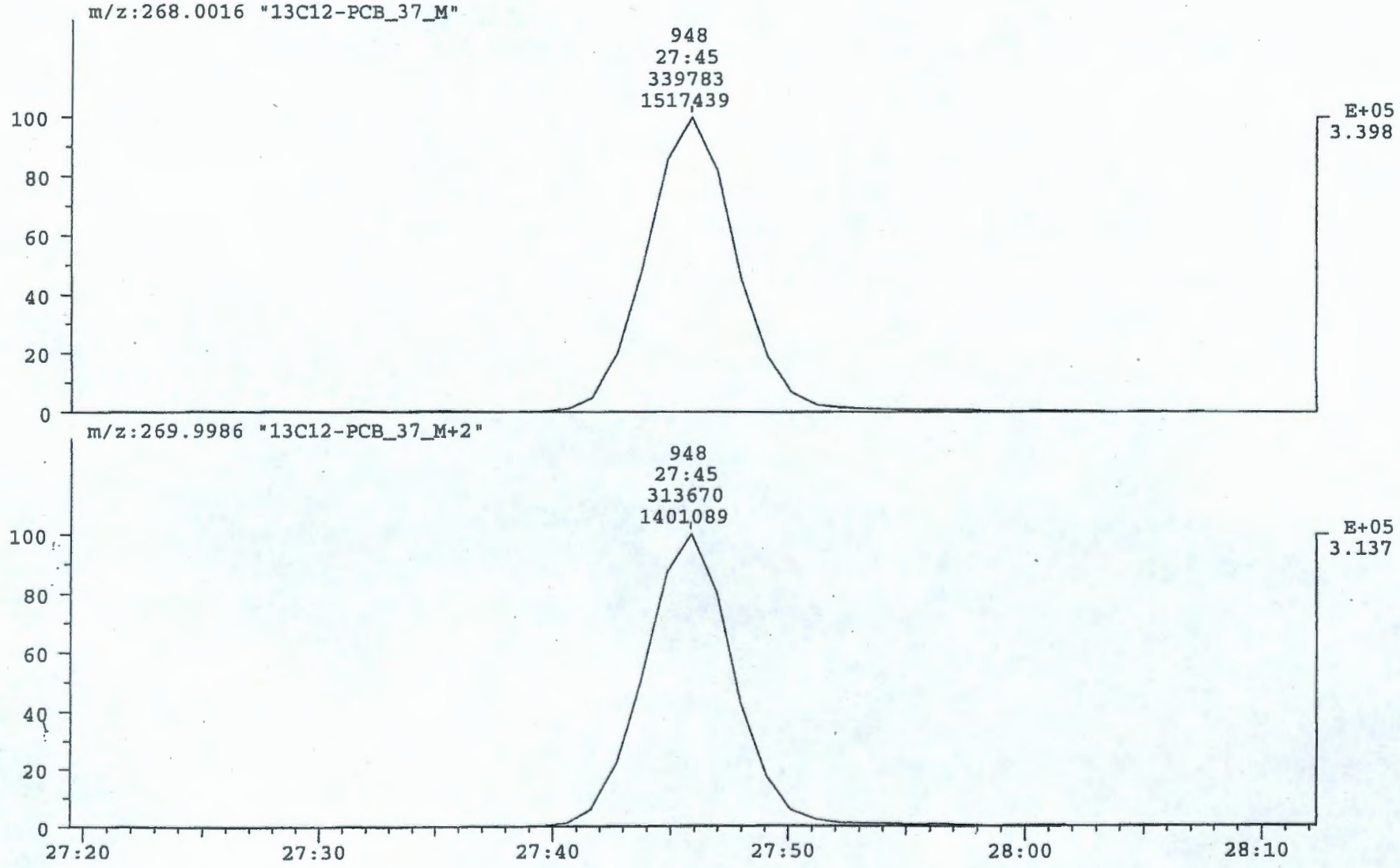
CHRO: a07030743 08-Mar-07 Elapse: 19:18.2 472
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 352 > 612 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



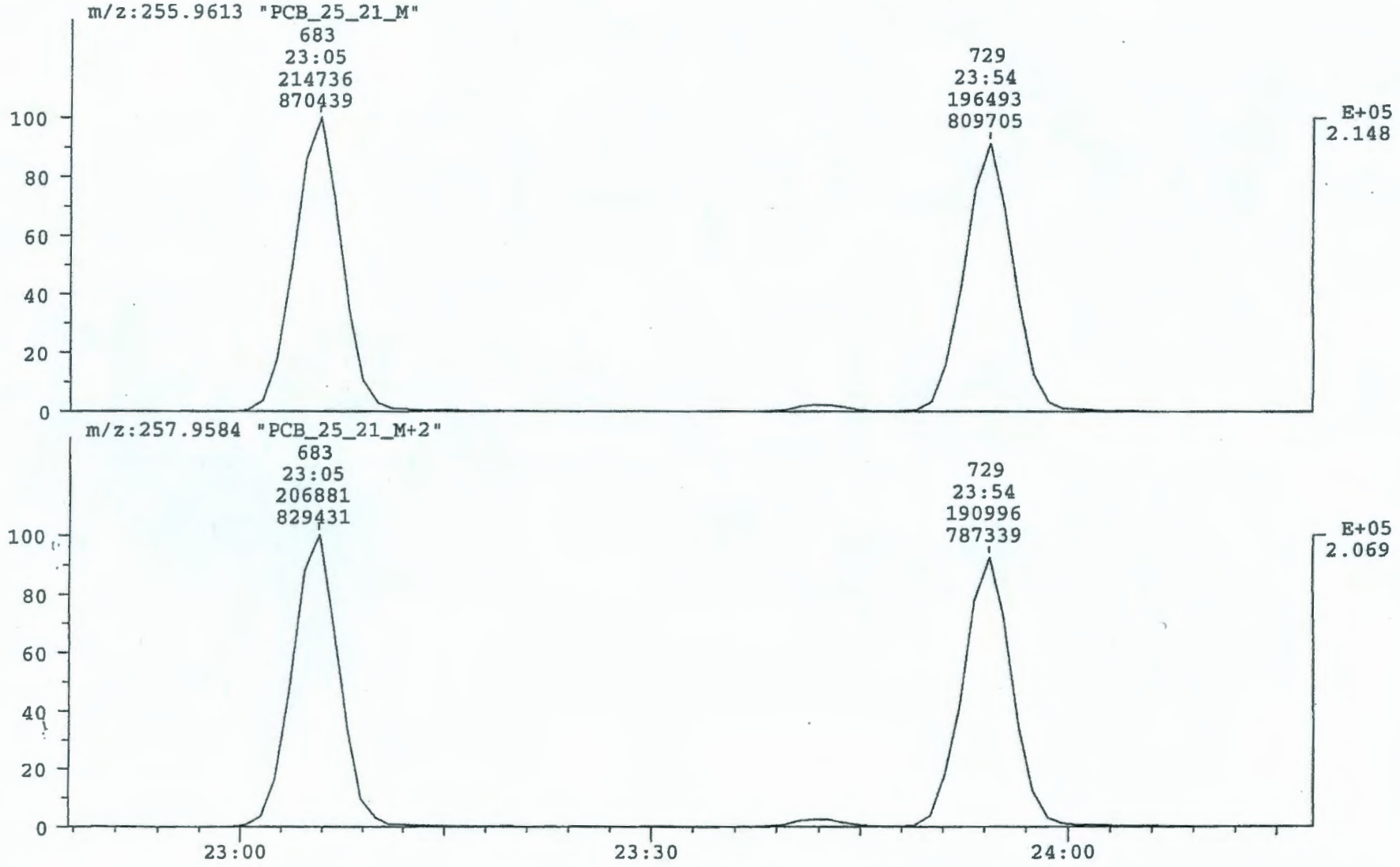
CHRO: a07030743 08-Mar-07 Elapse: 23:23.6 700
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 675 > 740 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030743                                08-Mar-07  Elapse:  27:45.8      948
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:  923 > 973            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :  100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

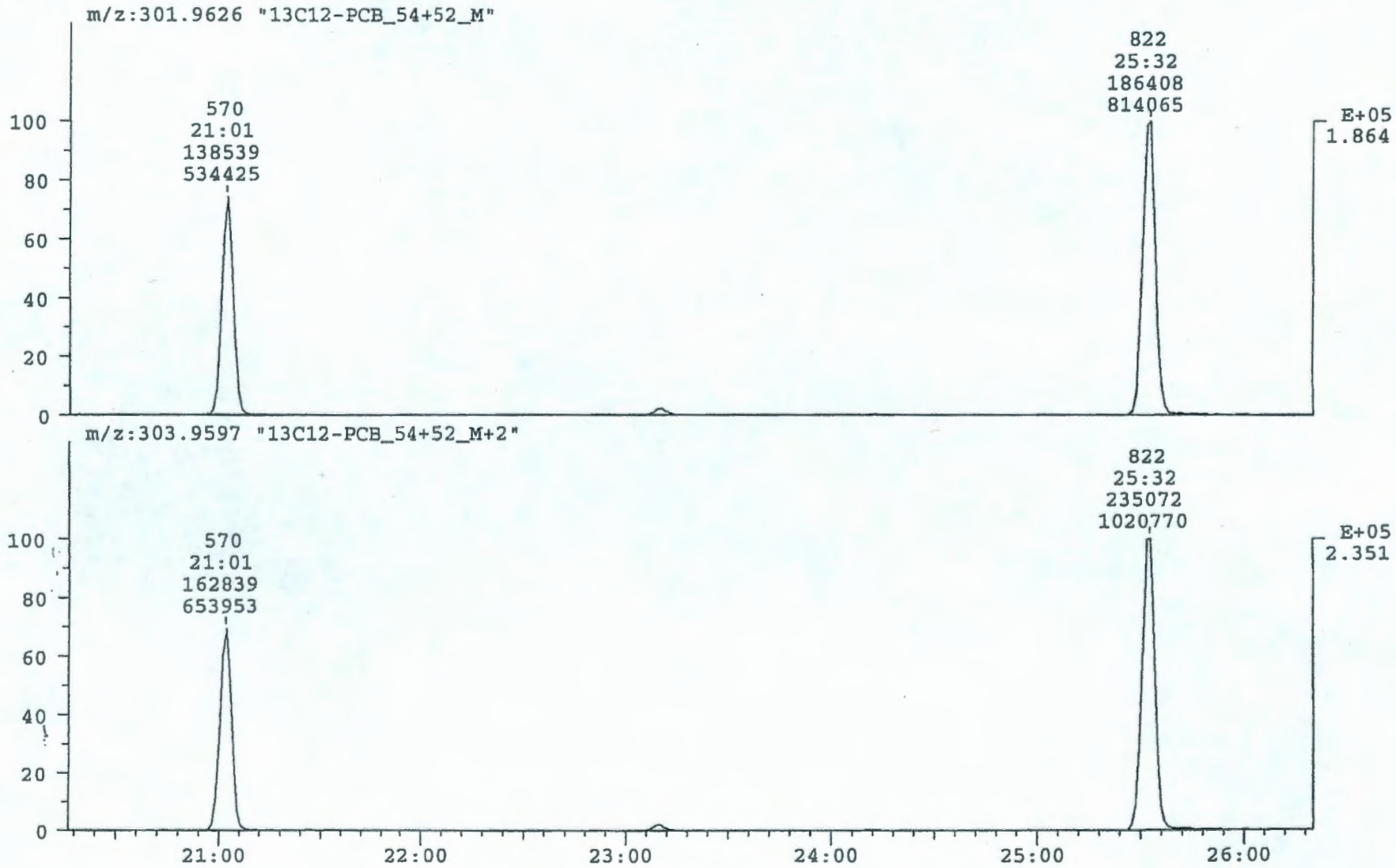


```
CHRO:  a07030743                                08-Mar-07   Elapse:  23:40.5      716
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   666 > 751             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

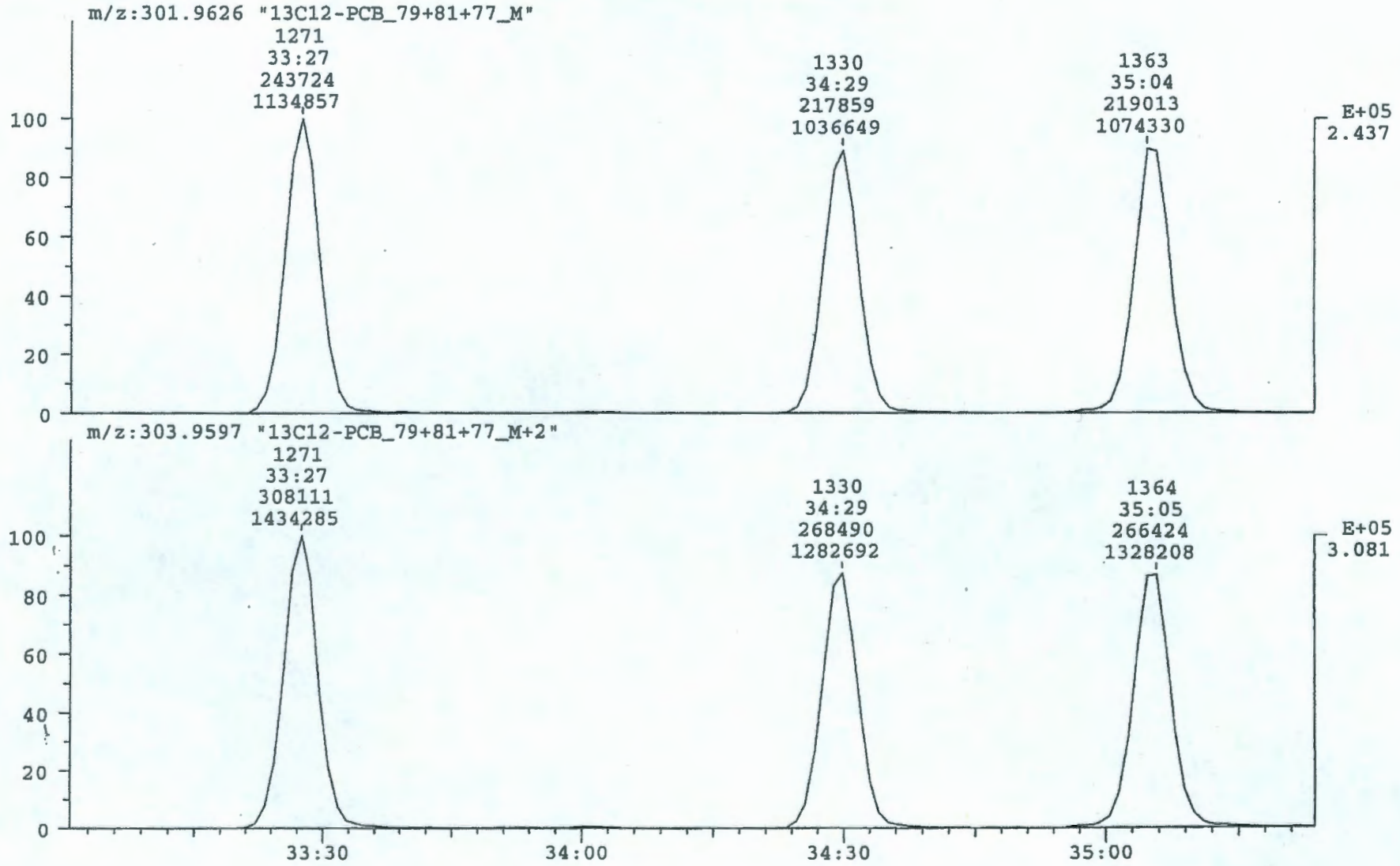


```
CHRO:  a07030743                                08-Mar-07   Elapse:  27:55.4      957
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   500 > 1418            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

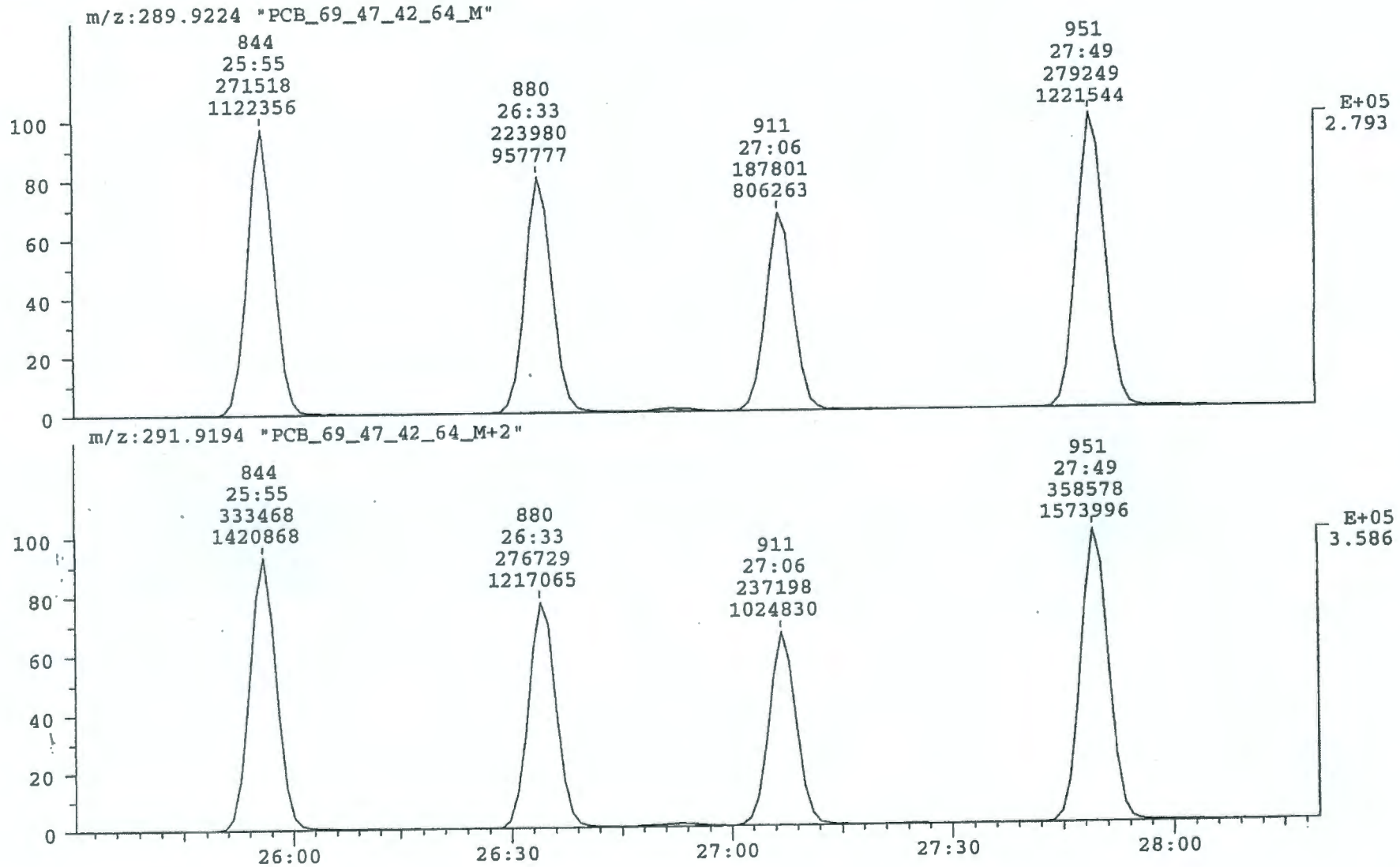
```
CHRO:  a07030743                                08-Mar-07   Elapse:  23:20.4      697
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



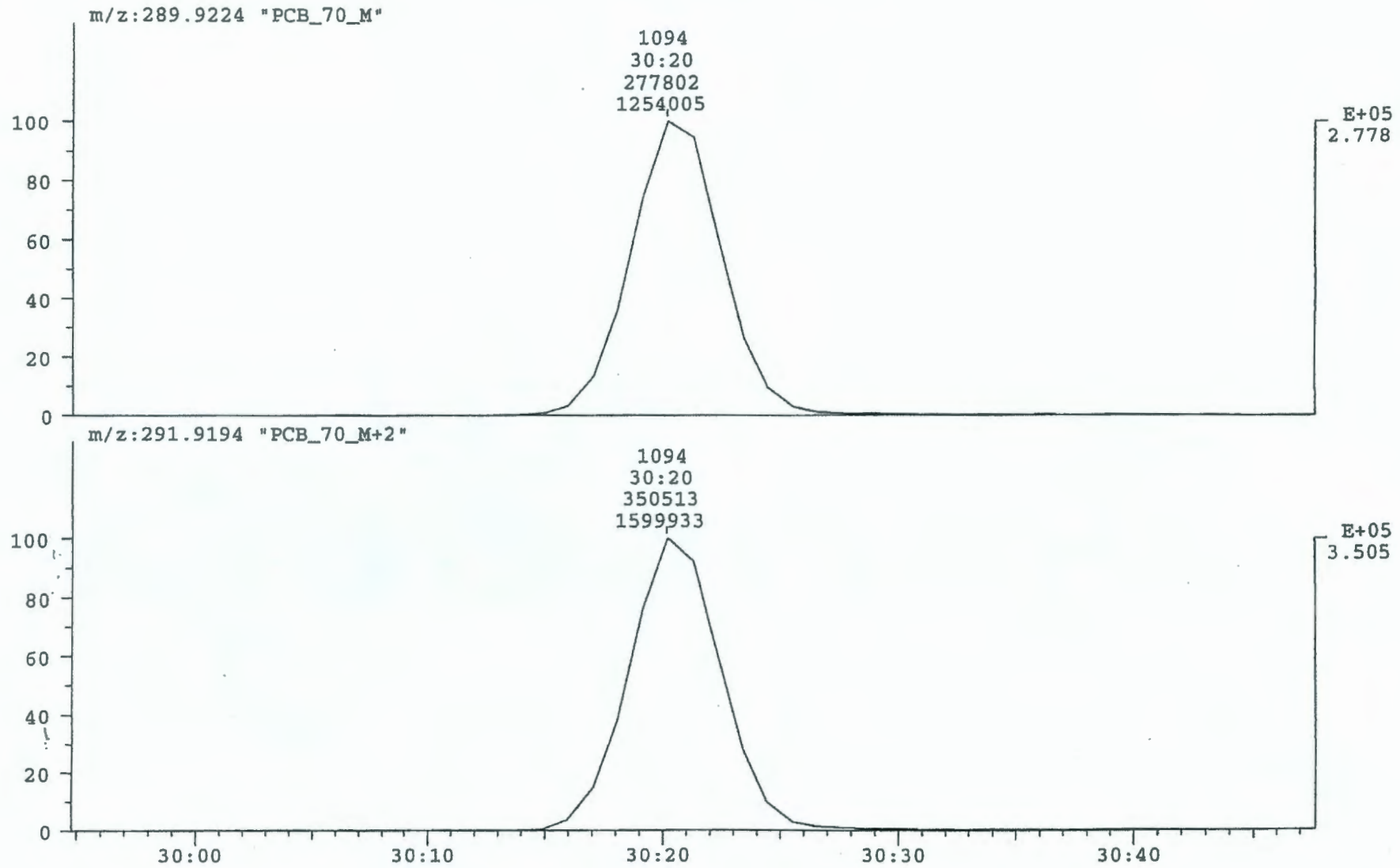
```
CHRO:  a07030743                                08-Mar-07   Elapse:  34:14      1316
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   6
Peak:  100.00  ppm     Label wndw:   1246 > 1381            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



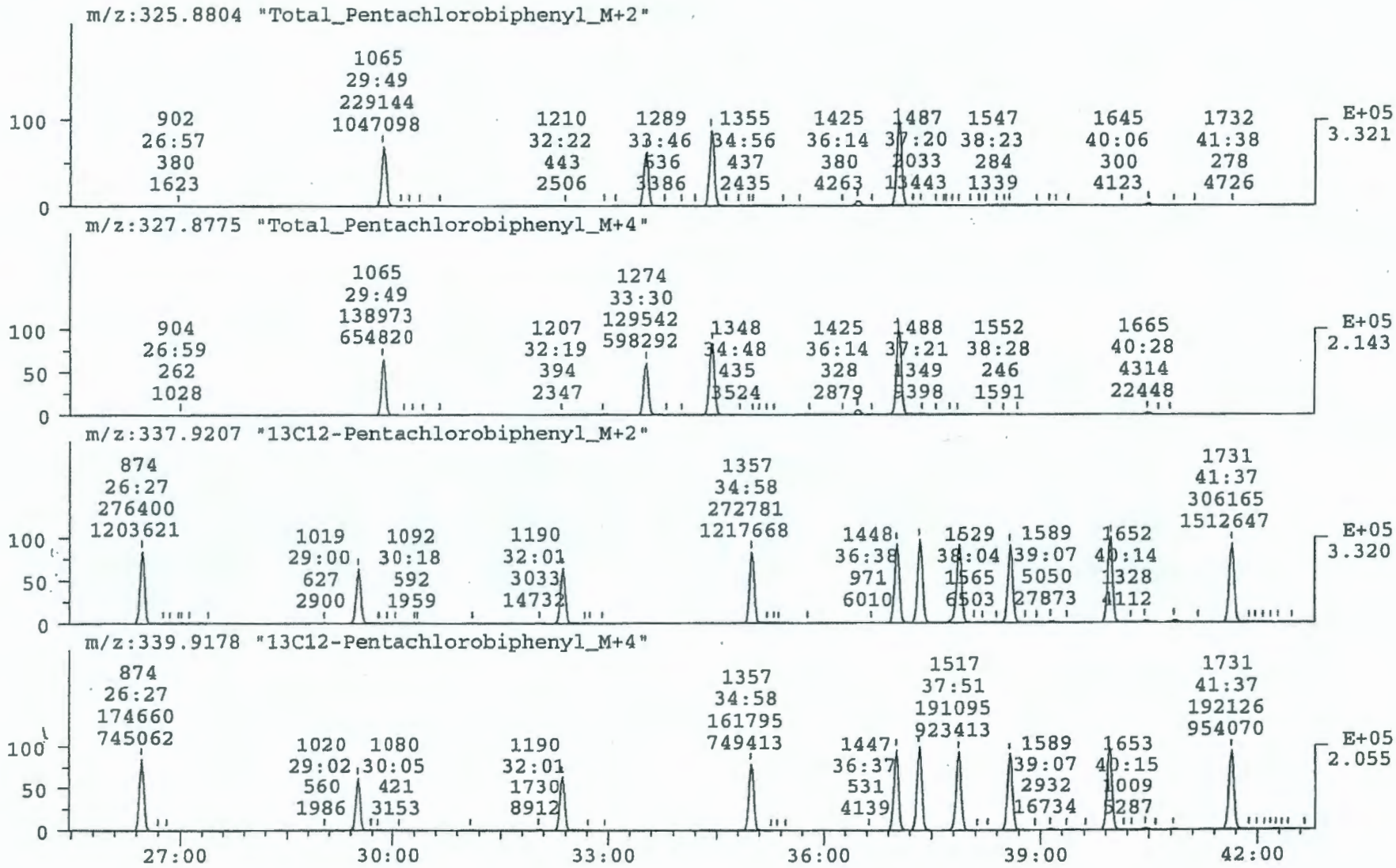
CHRO: a07030743 08-Mar-07 Elapse: 26:55.1 900
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 820 > 980 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



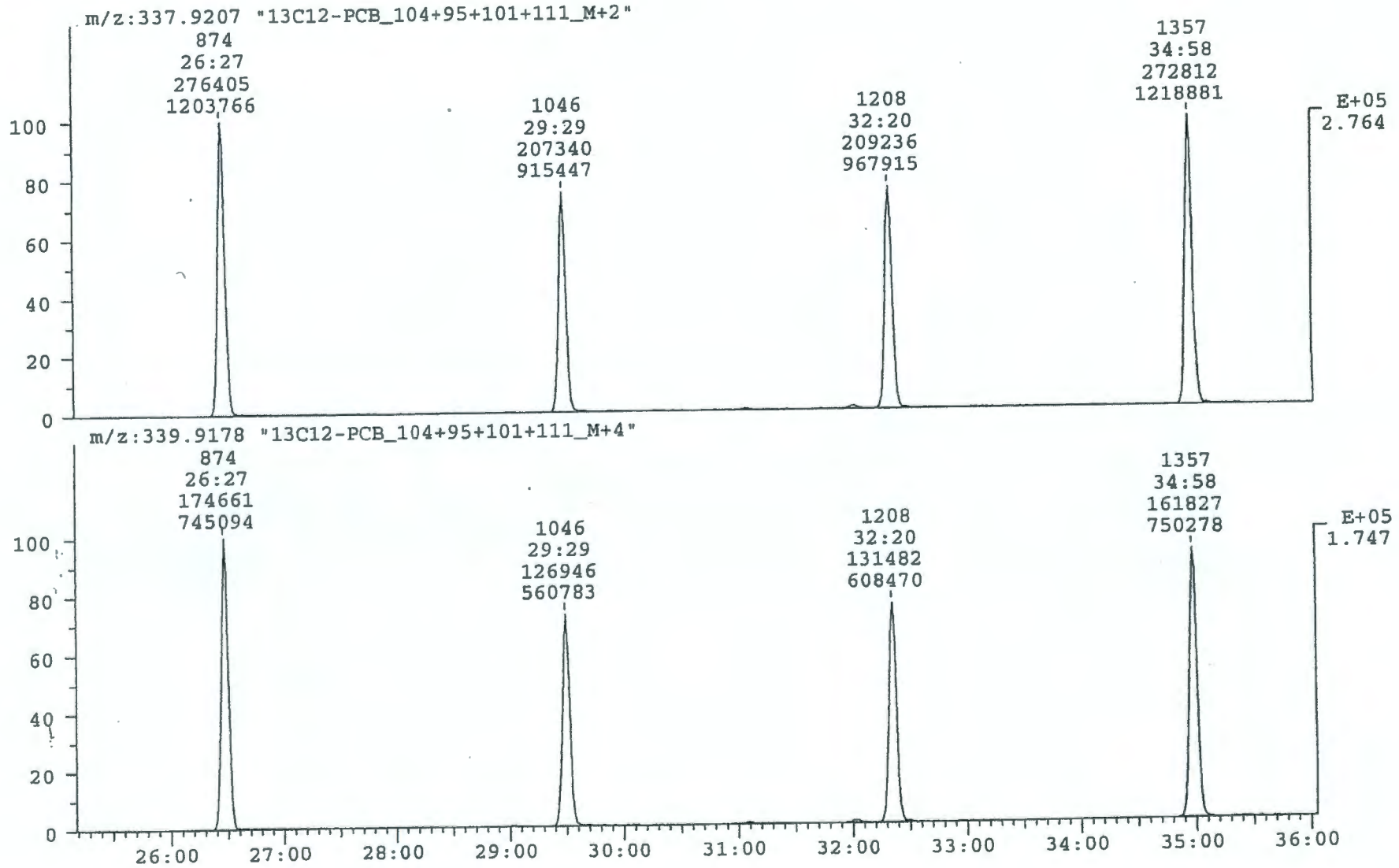
```
CHRO:  a07030743                                08-Mar-07  Elapse:  30:21      1095
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 RT Mix4/Run3
Oper:  DCG          Client:  STL Knoxville                 Inlet :  GC     Vial   6
Peak:  100.00  ppm     Label wndw:   1070 > 1120           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



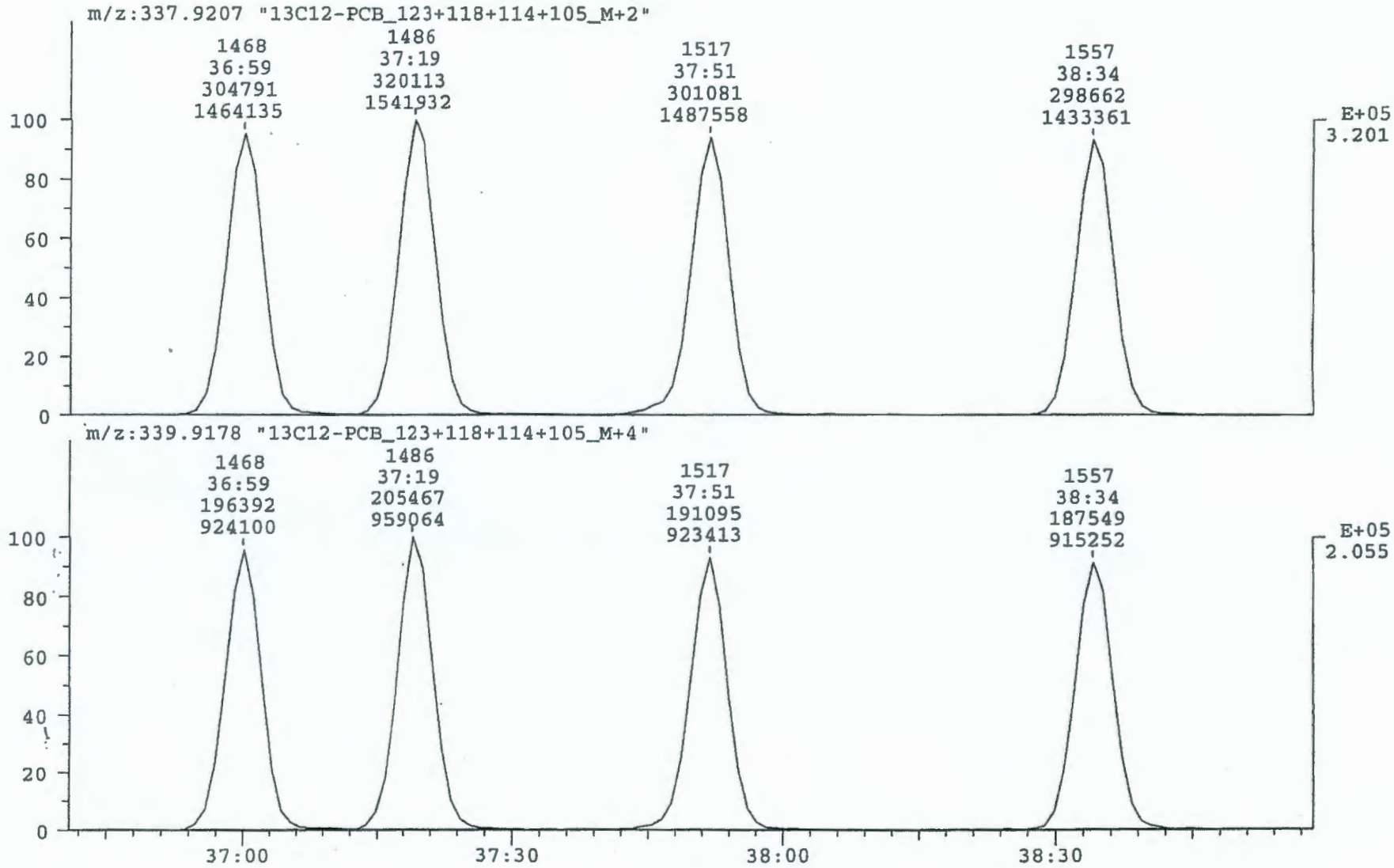
```
CHRO:  a07030743                                08-Mar-07  Elapse:  34:07      1309
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   818 > 1797          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



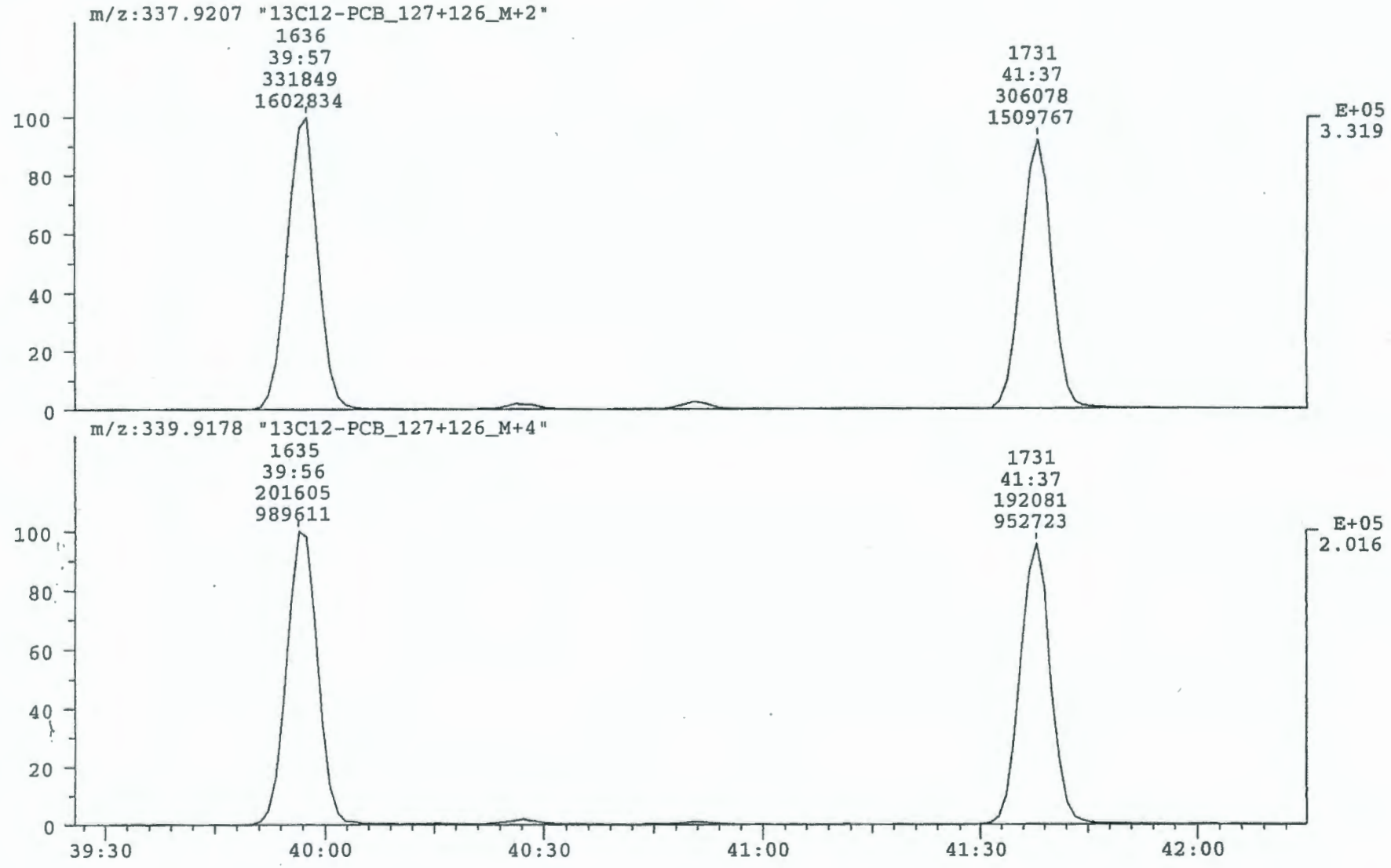
CHRO: a07030743 08-Mar-07 Elapse: 30:37 1110
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 802 > 1418 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



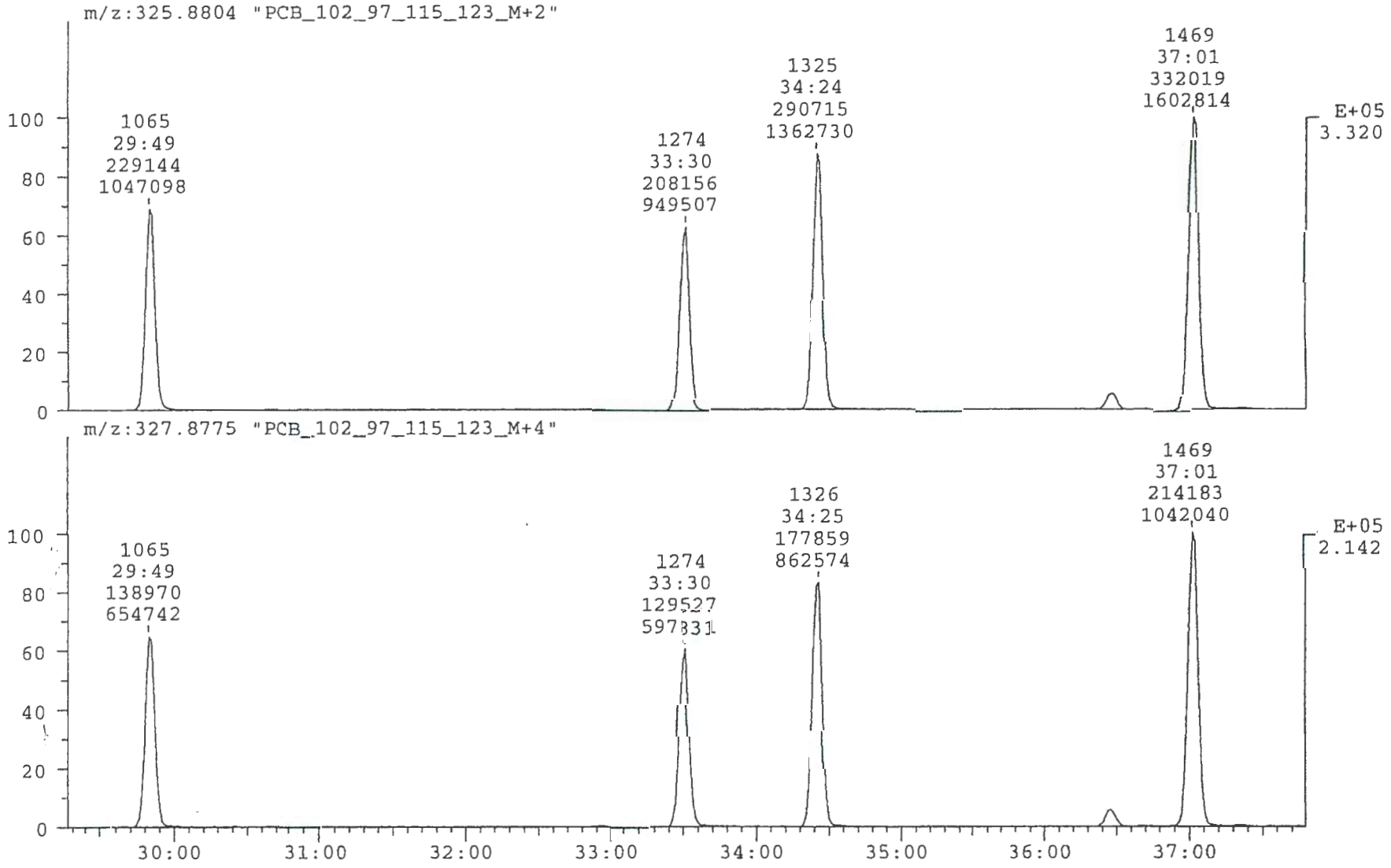
CHRO: a07030743 08-Mar-07 Elapse: 37:49 1515
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1450 > 1580 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



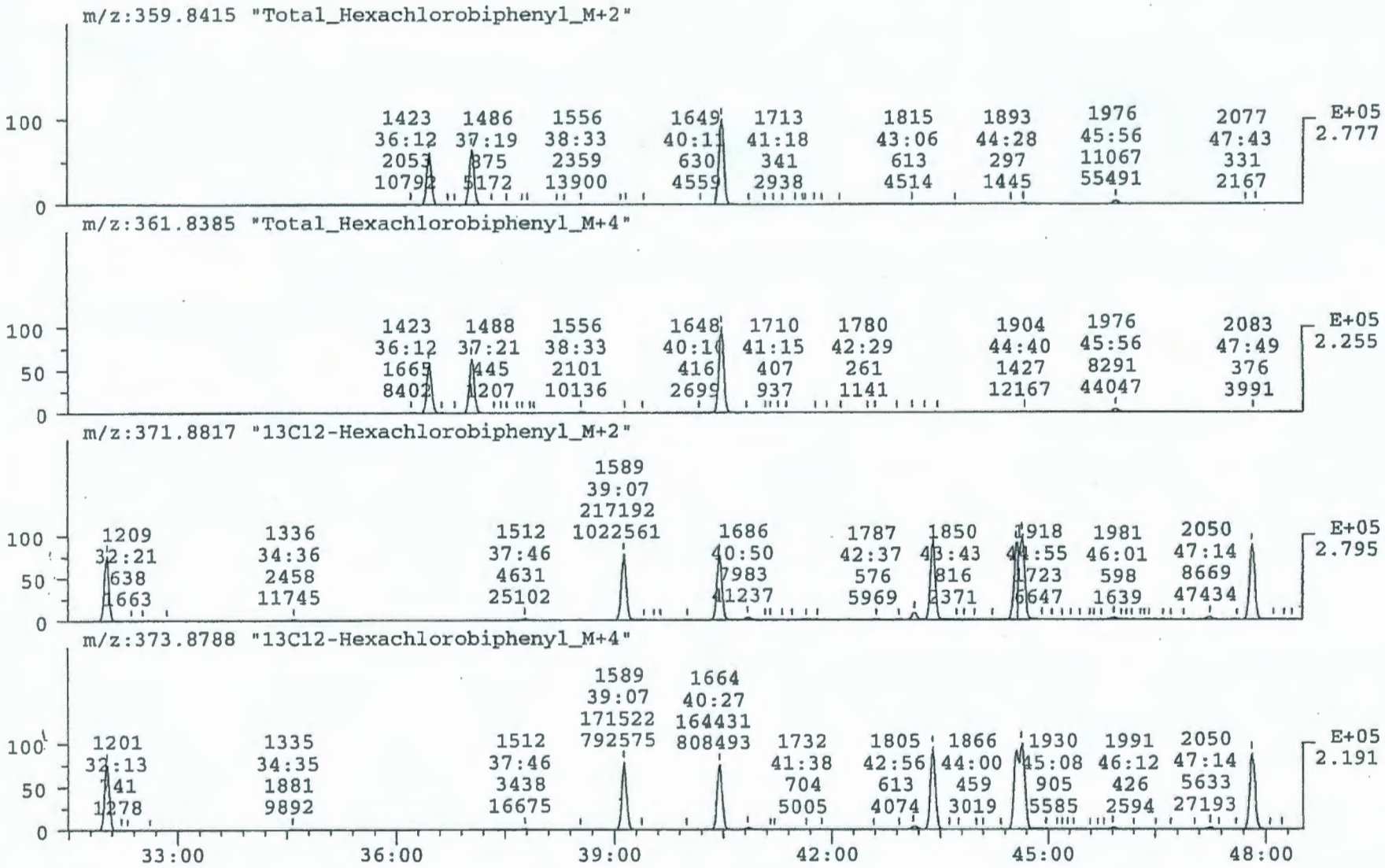
```
CHRO:  a07030743                                08-Mar-07   Elapse:  40:50      1686
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  6
Peak:  100.00  ppm    Label wndw:   1606 > 1766             Masses:  181 > 510
Area:  5, 0.50, 15    Baseline  :   100, 3                  Label :  -3, 3.0
Disp:  Height  Area
```



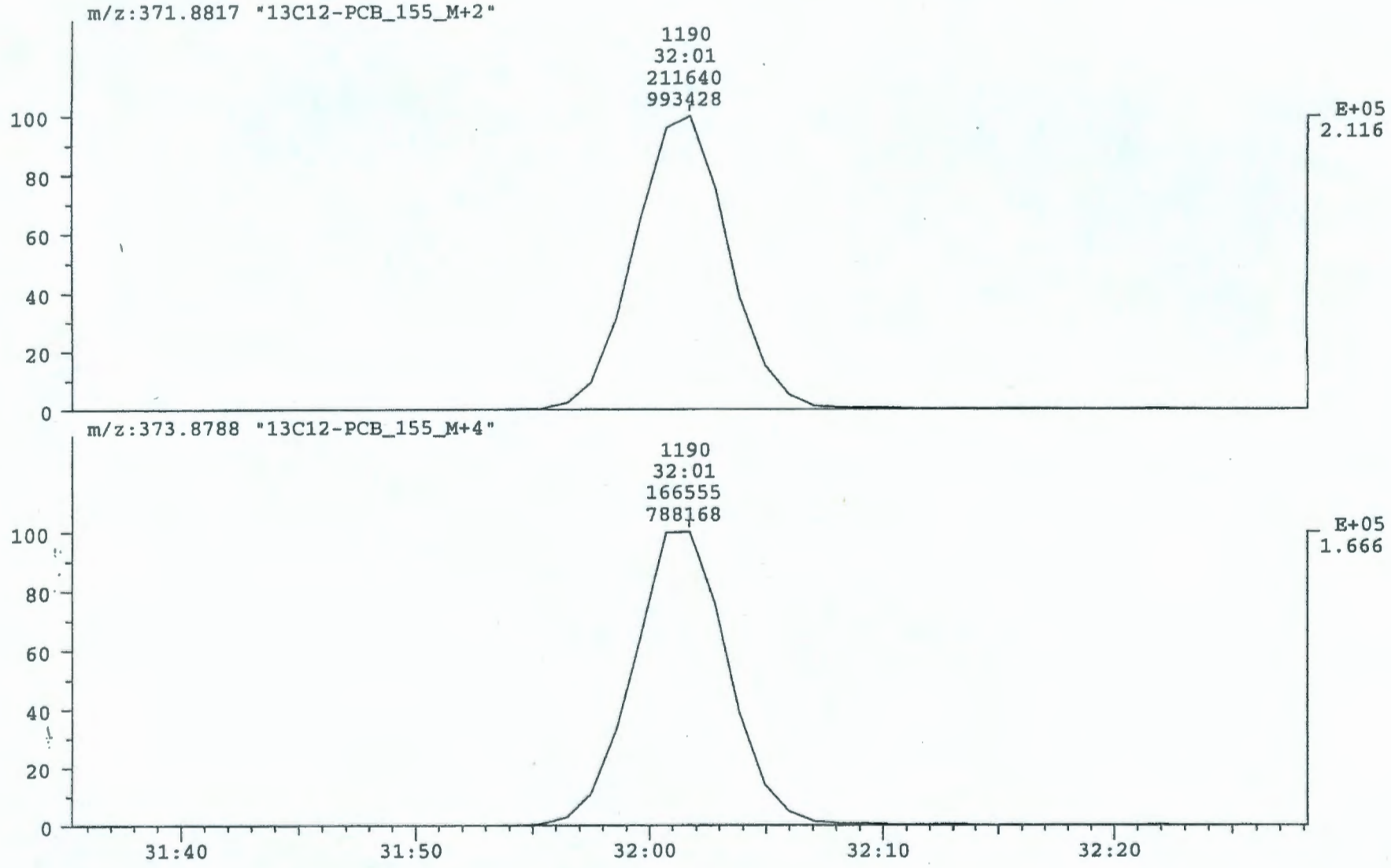
CHRO: a07030743 08-Mar-07 Elapse: 33:29 1273
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1033 > 1513 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



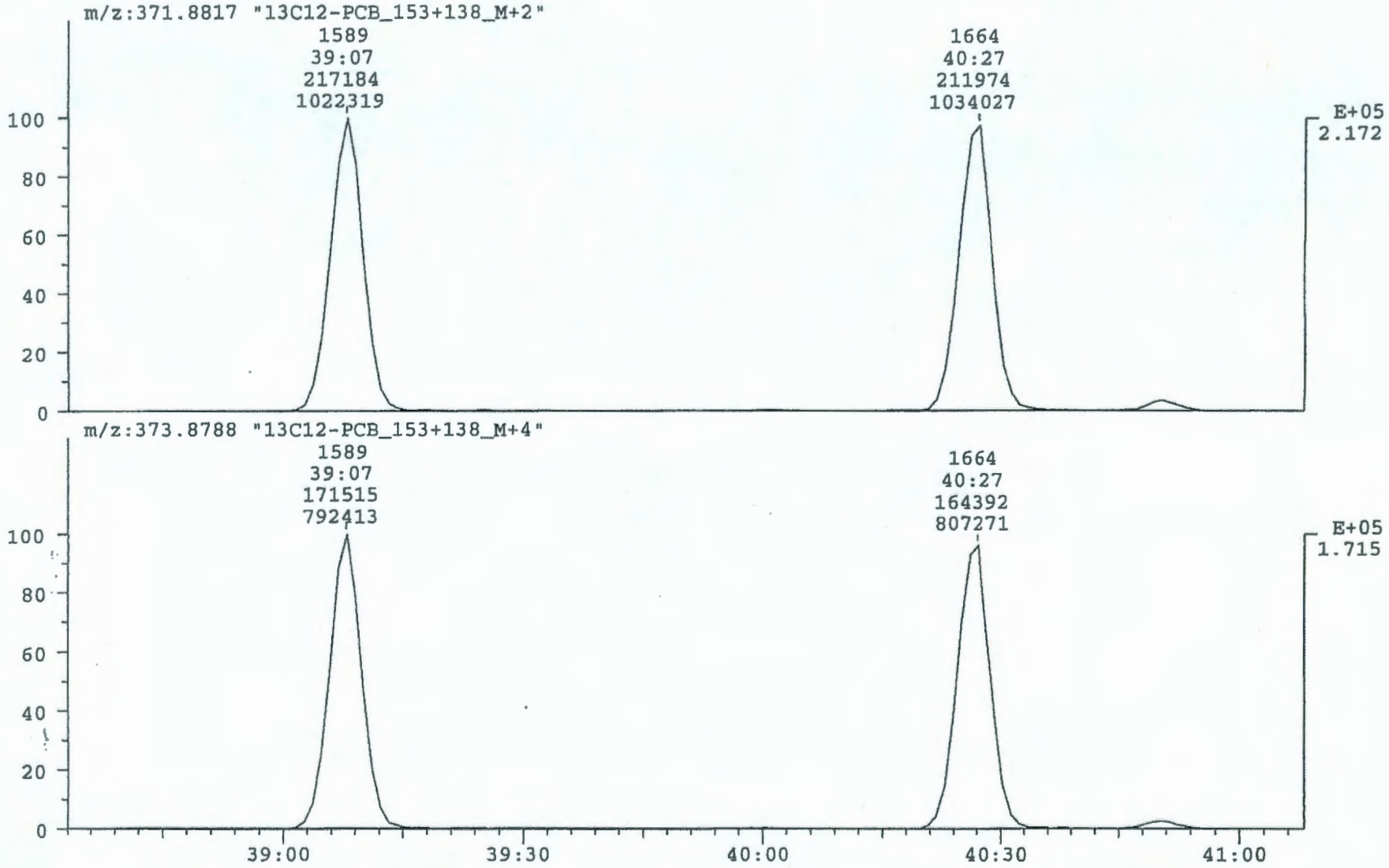
```
CHRO:  a07030743                                08-Mar-07   Elapse:  39:58      1637
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1159 > 2121           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



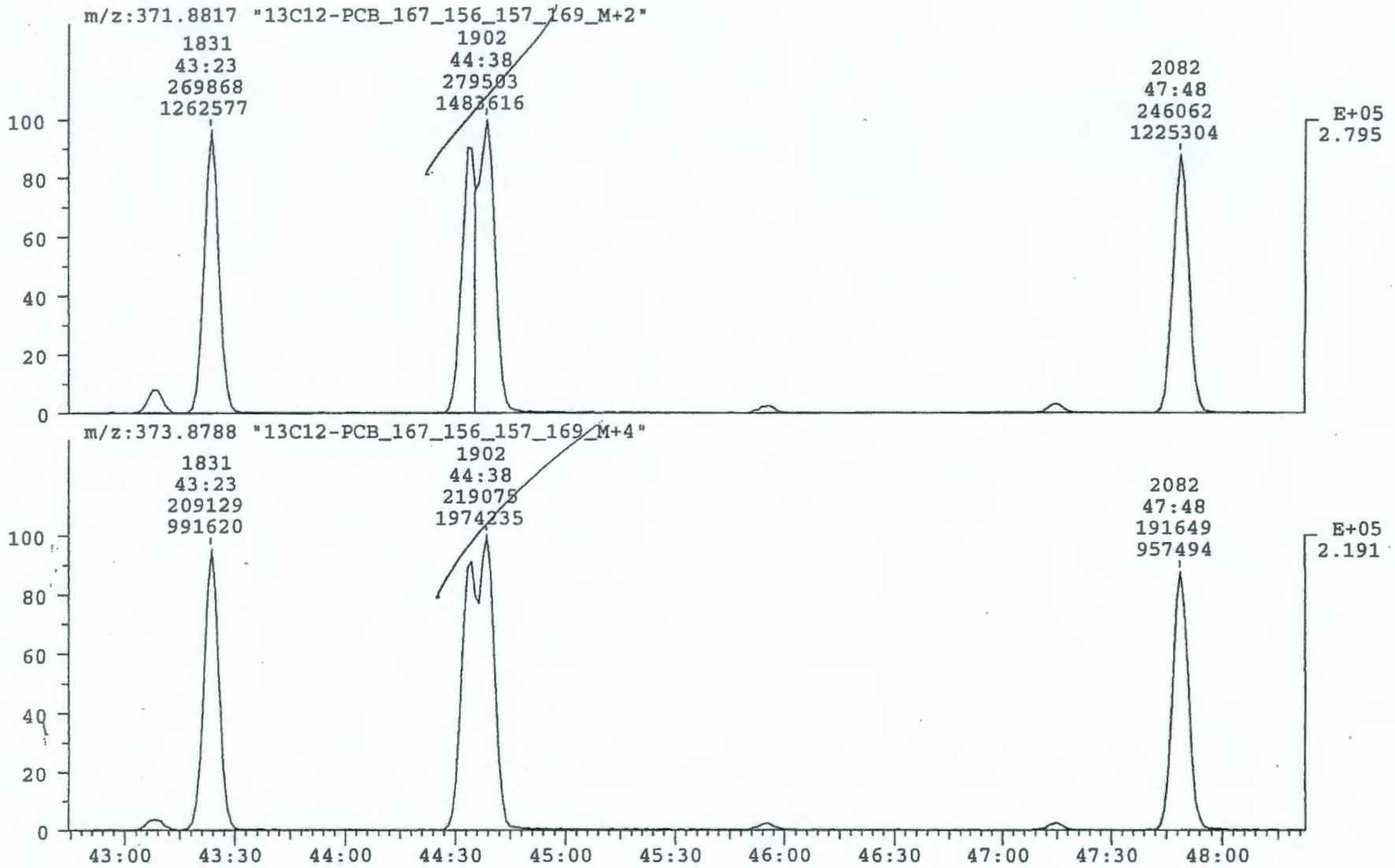
```
CHRO:  a07030743                                08-Mar-07   Elapse:  32:01      1190
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1165 > 1215           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



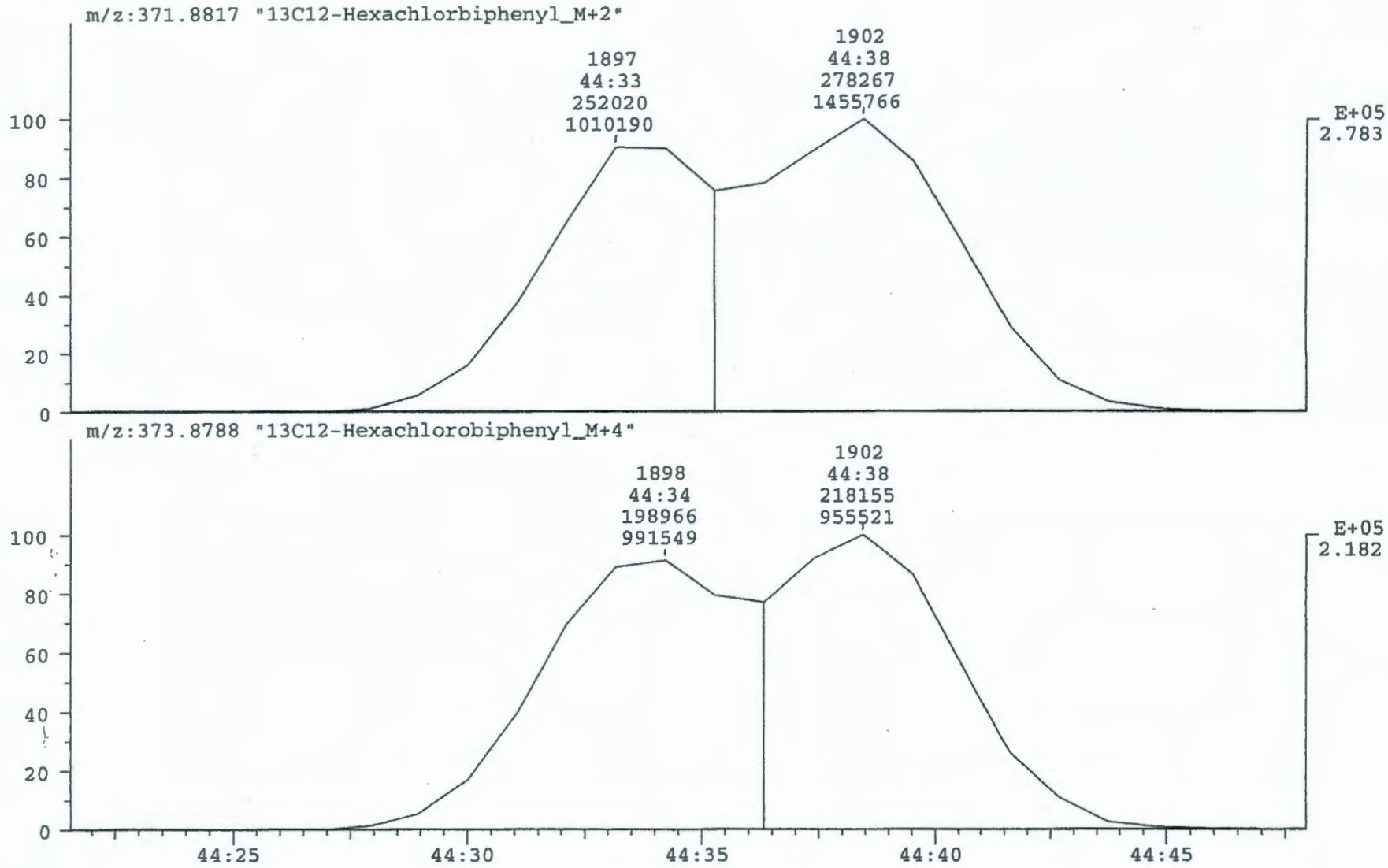
```
CHRO:  a07030743                                08-Mar-07  Elapse:  39:50      1629
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1556 > 1703         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



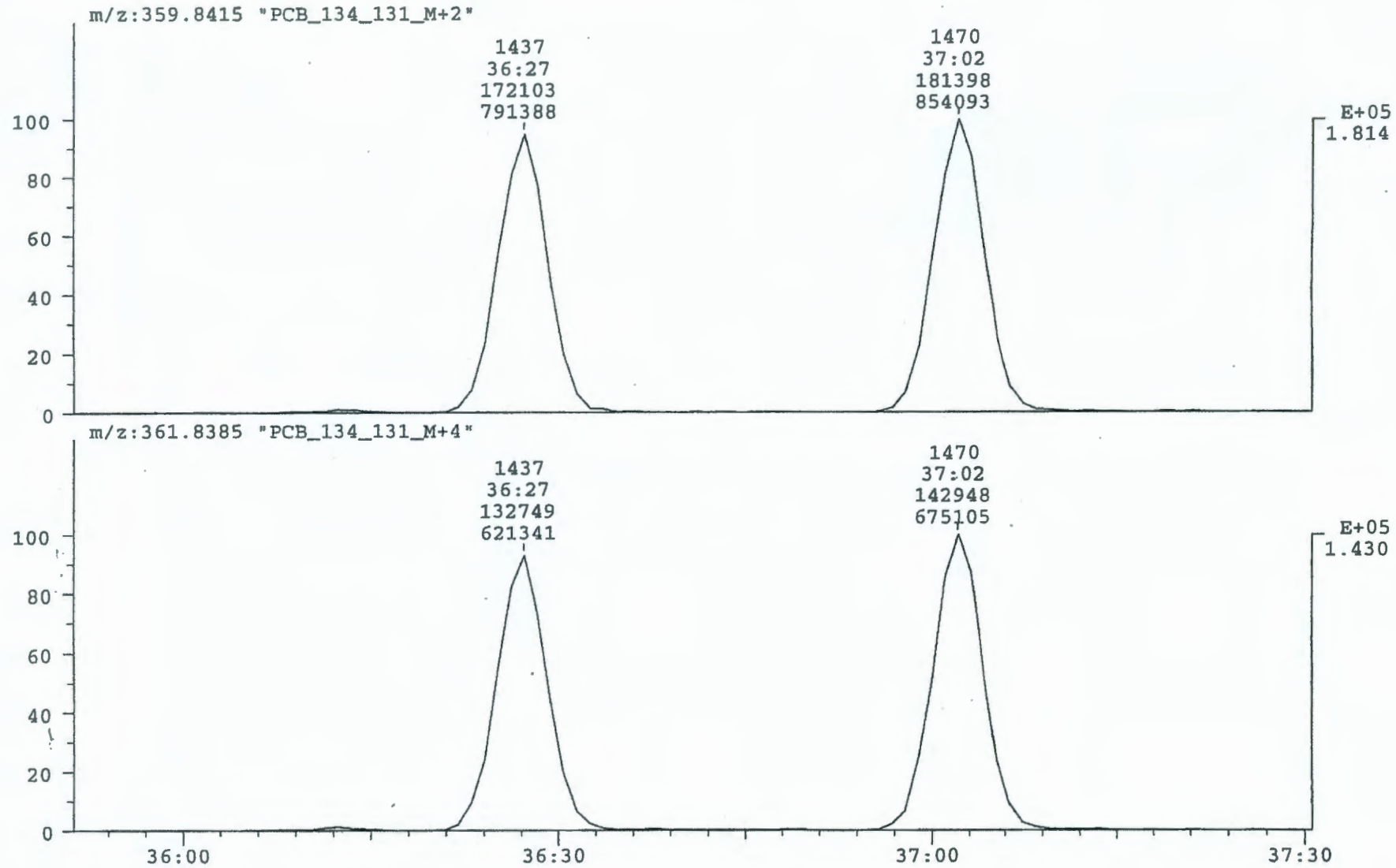
CHRO: a07030743 08-Mar-07 Elapse: 45:38 1959
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1794 > 2114 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



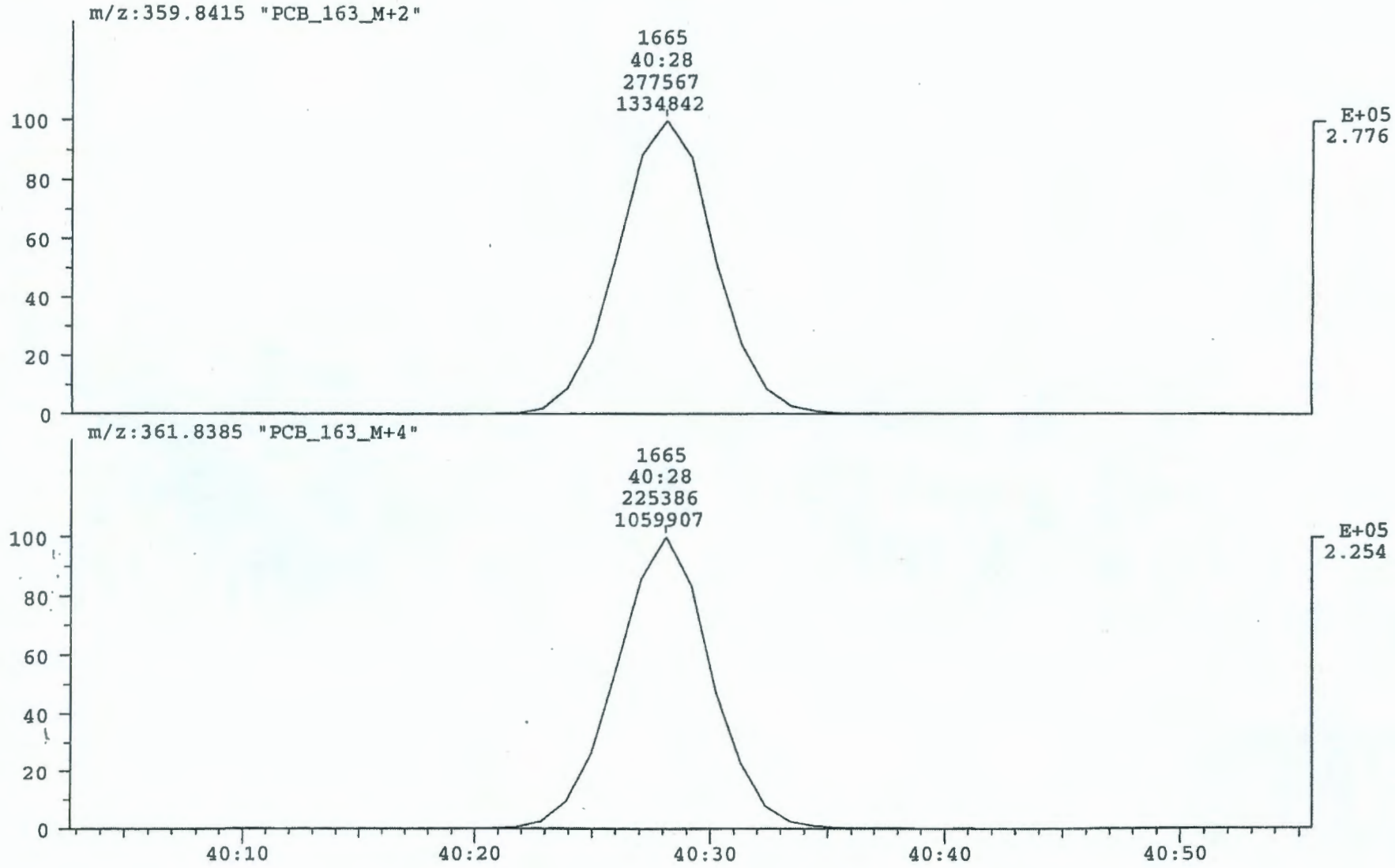
CHRO: a07030743 08-Mar-07 Elapse: 56:12 2555
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1886 > 1911 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 2 Label : -3, 3.0
Disp: Height Area



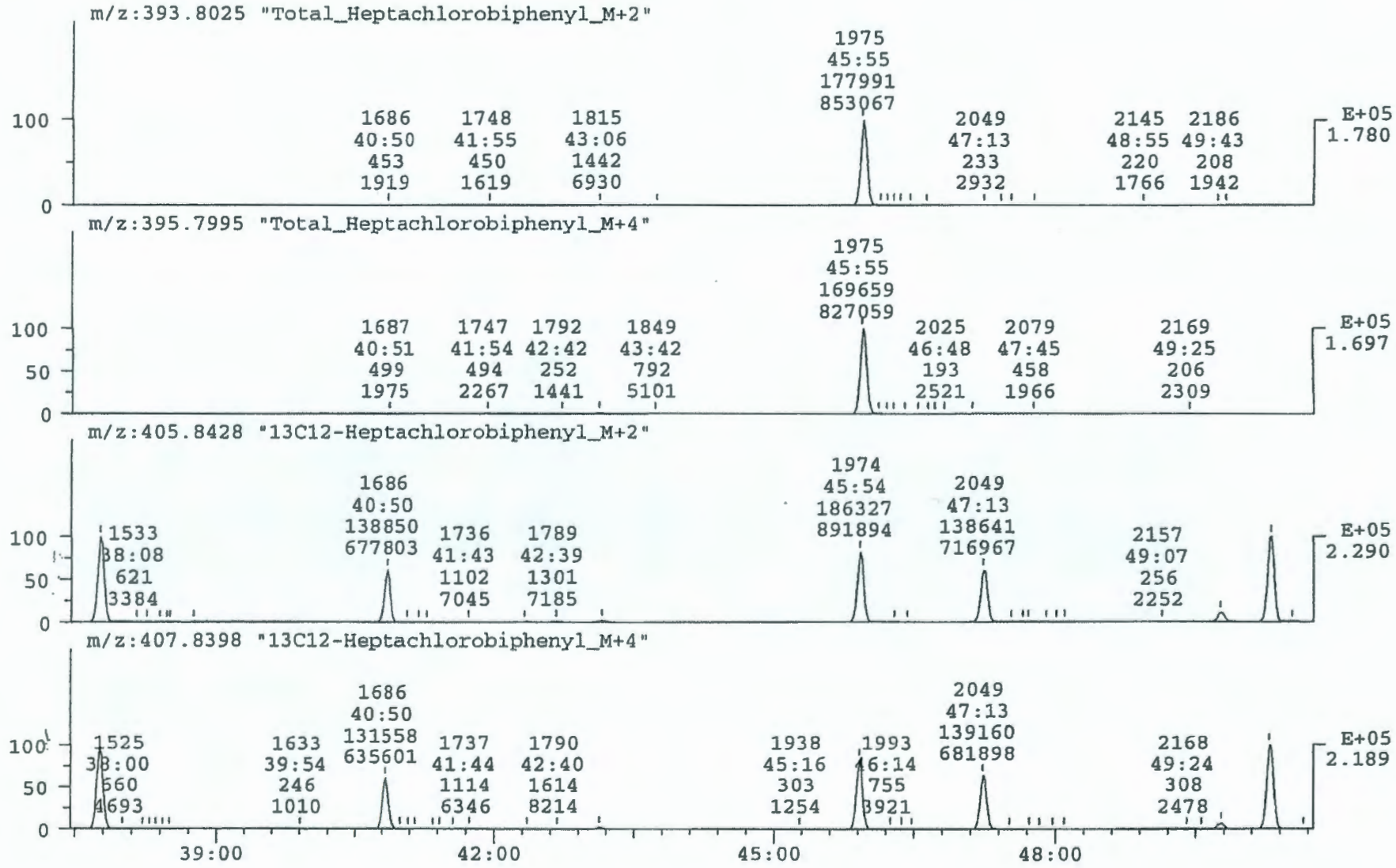
```
CHRO:  a07030743                                08-Mar-07  Elapse:  37:04      1472
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1407 > 1497         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



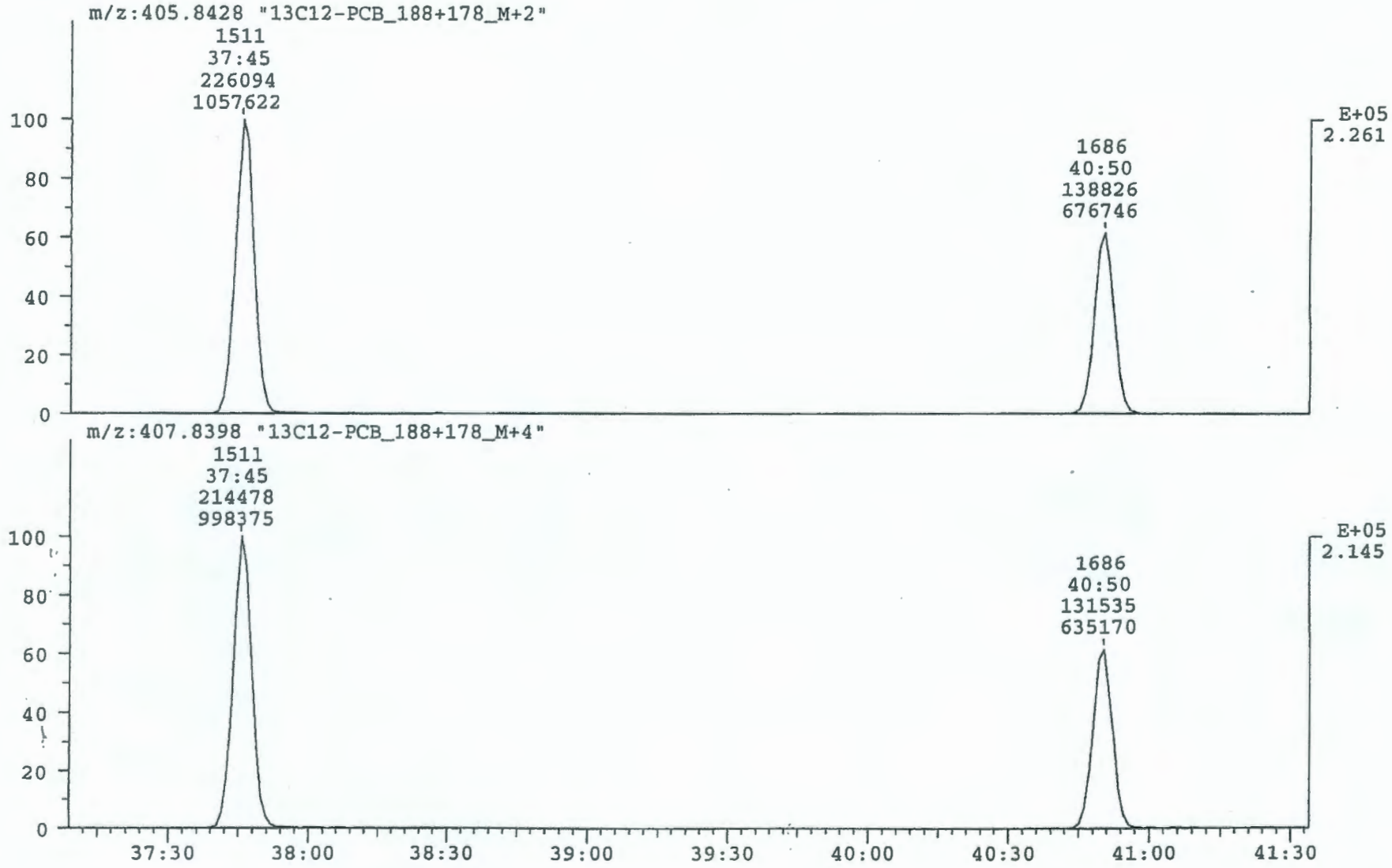
CHRO: a07030743 08-Mar-07 Elapse: 40:29 1666
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1641 > 1691 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



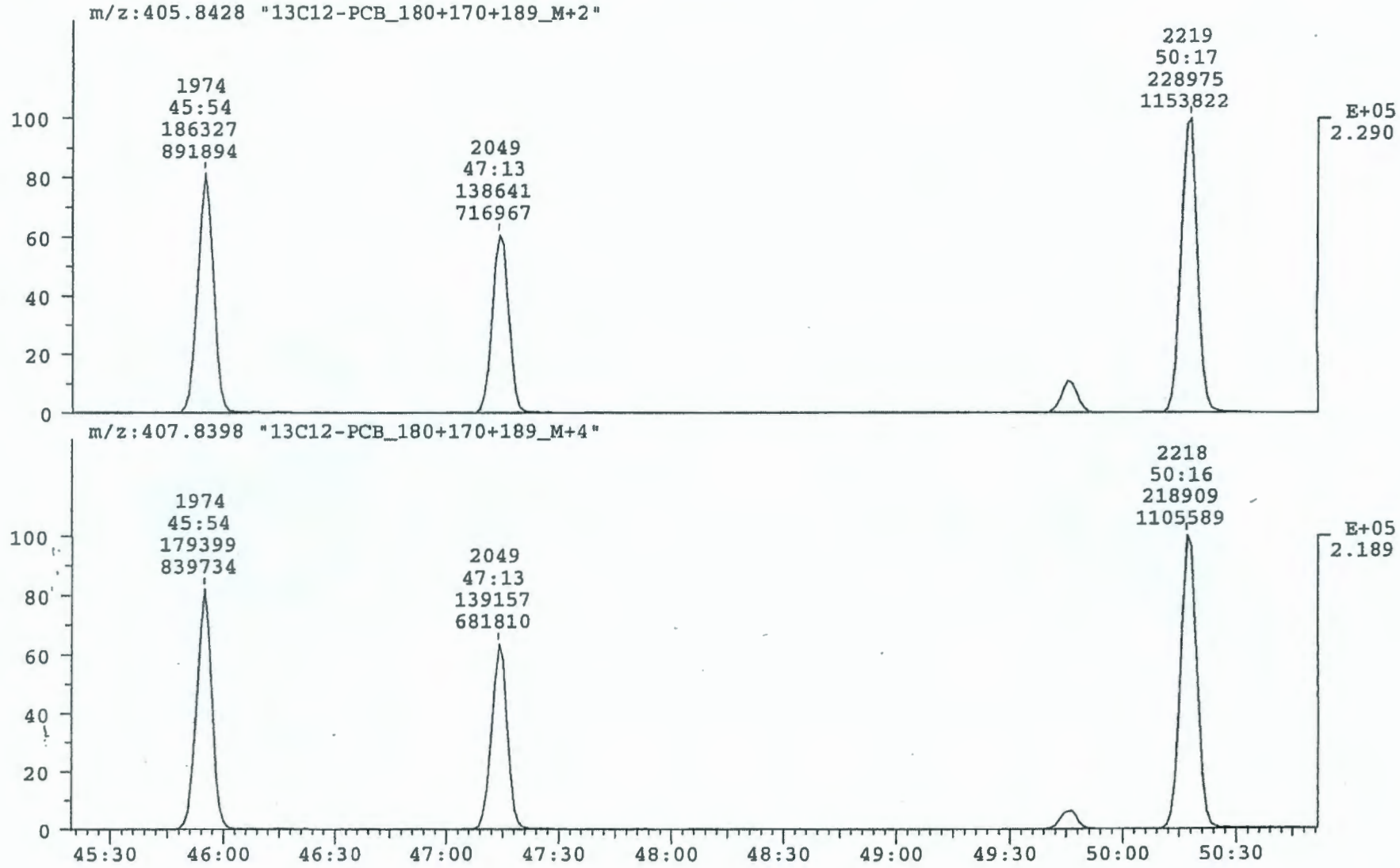
CHRO: a07030743 08-Mar-07 Elapse: 44:05 1871
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1494 > 2245 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



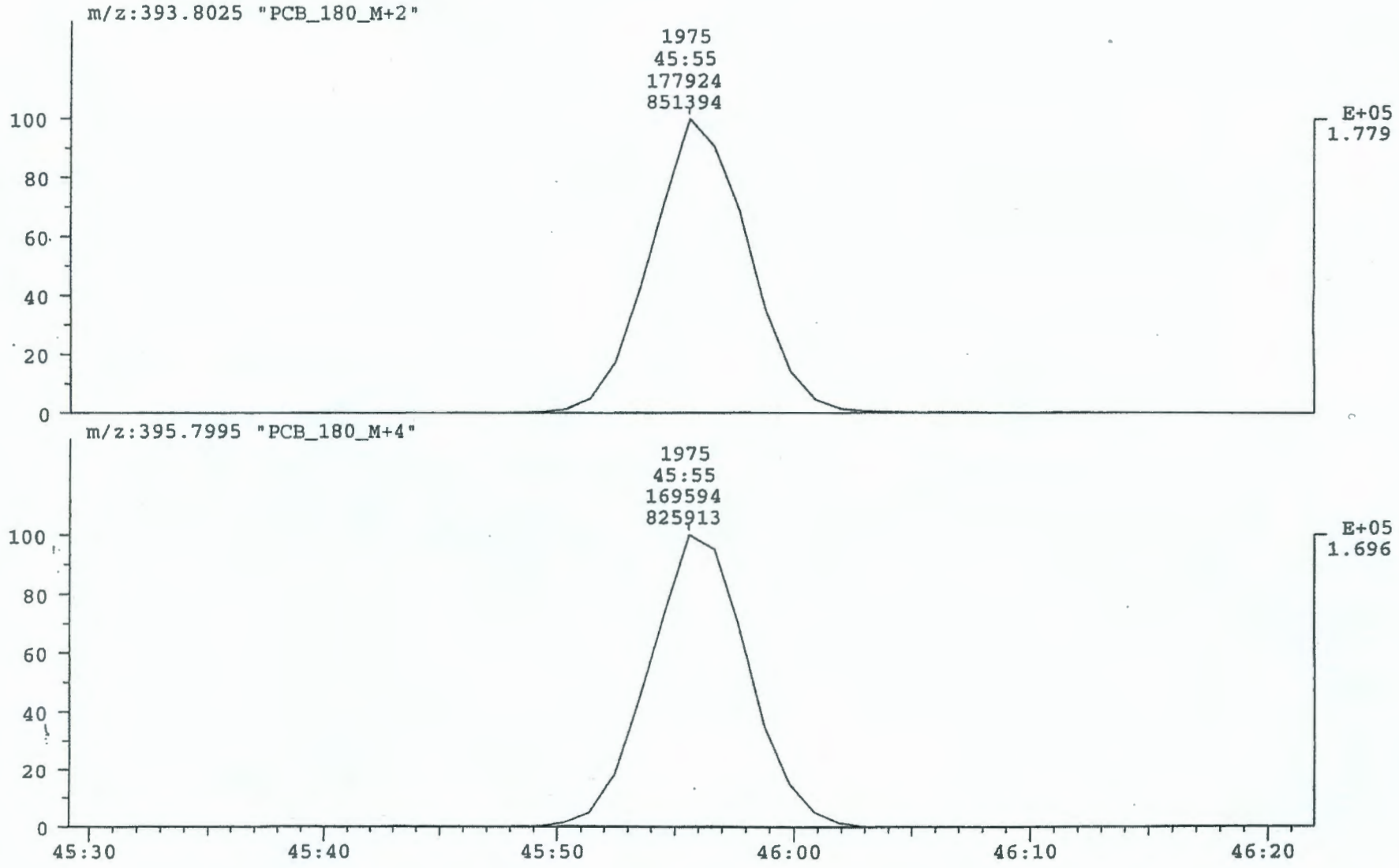
```
CHRO:  a07030743                                08-Mar-07  Elapse:  39:20      1601
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm     Label wndw:   1477 > 1727          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



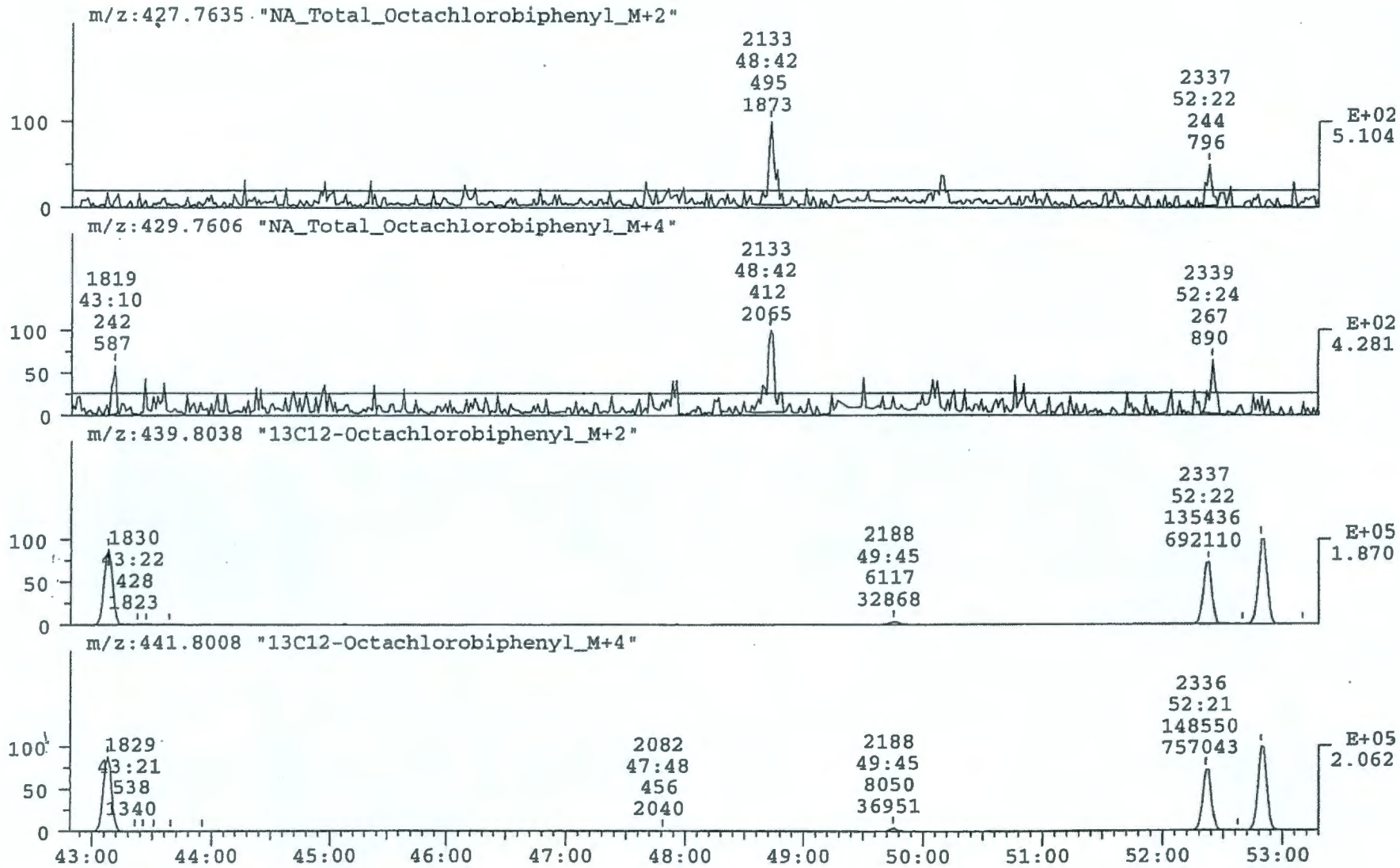
CHRO: a07030743 08-Mar-07 Elapse: 48:08 2101
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1941 > 2251 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



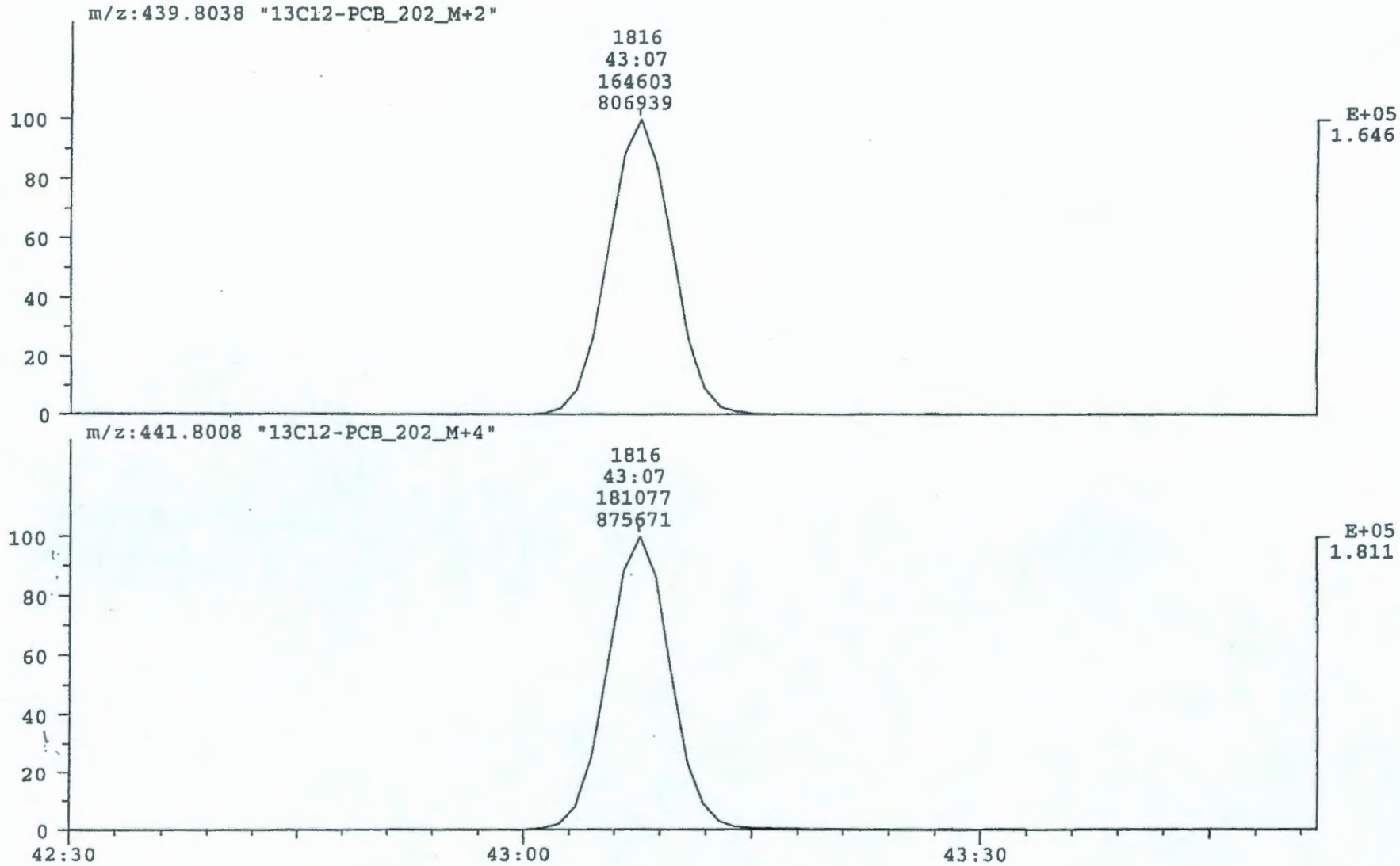
```
CHRO:  a07030743                              08-Mar-07  Elapse:  45:55      1975
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1              Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville             Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1950 > 2000        Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



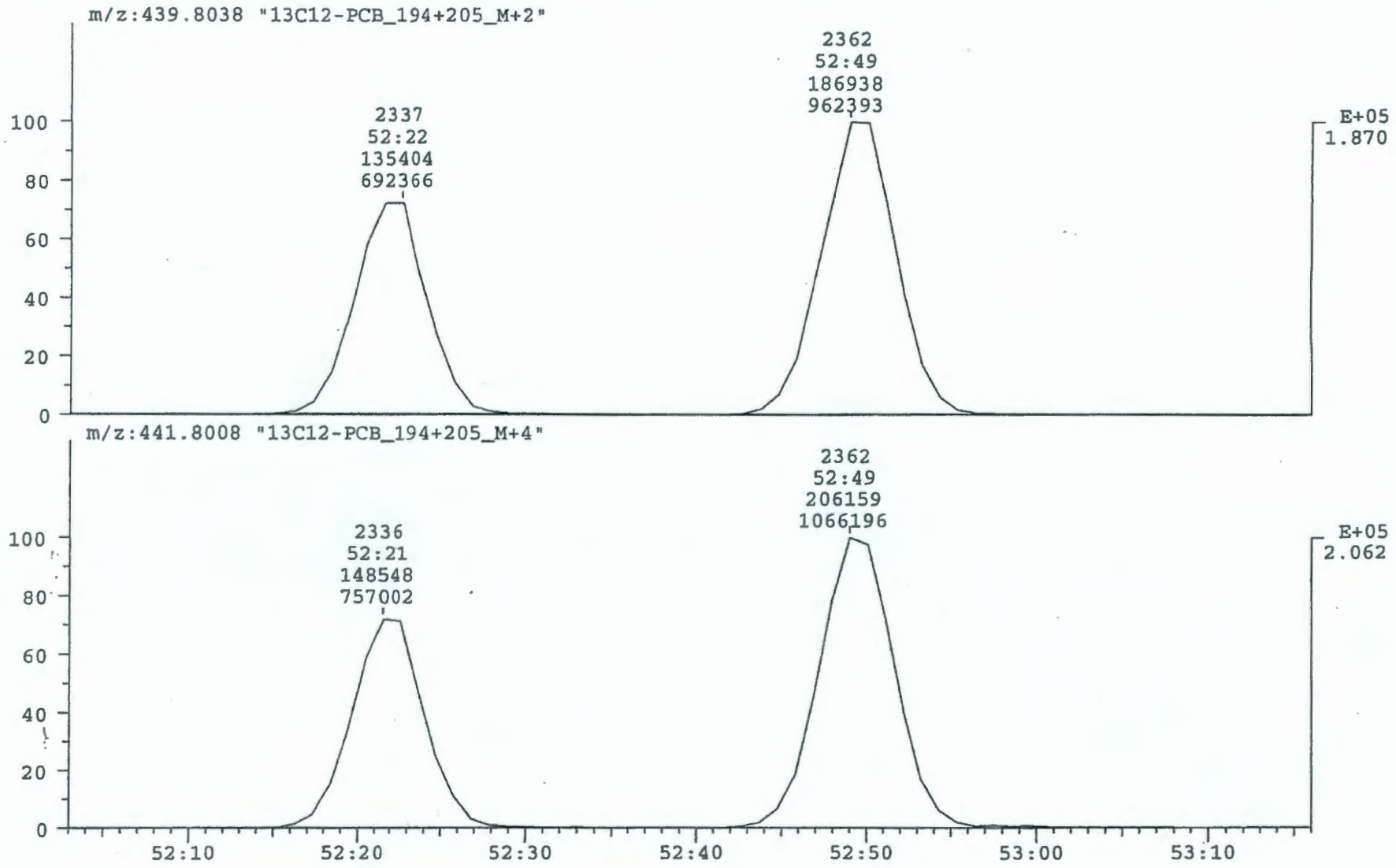
```
CHRO:  a07030743                                08-Mar-07   Elapse:  48:03      2096
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1798 > 2390           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



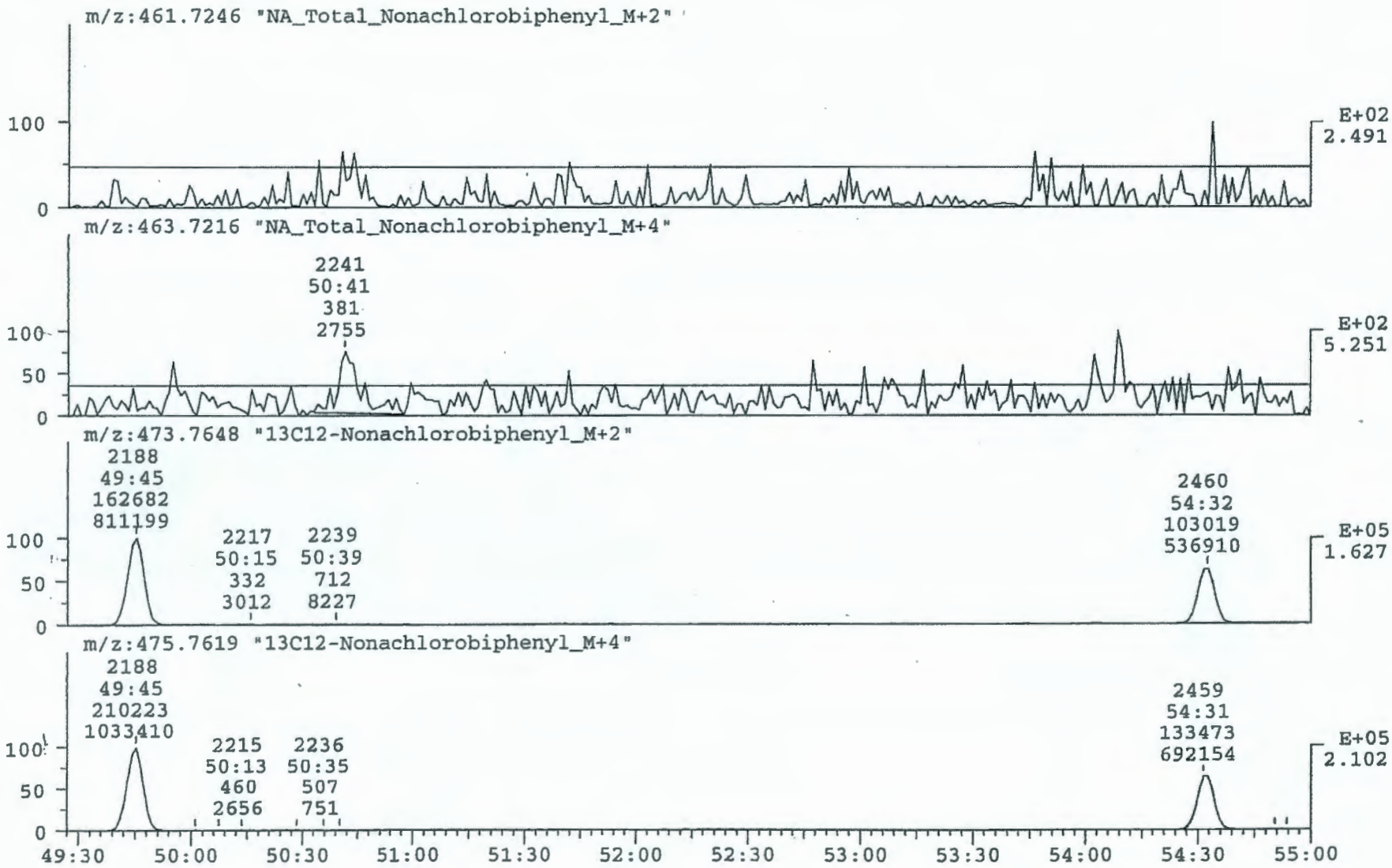
CHRO: a07030743 08-Mar-07 Elapse: 43:07 1816
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1780 > 1858 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



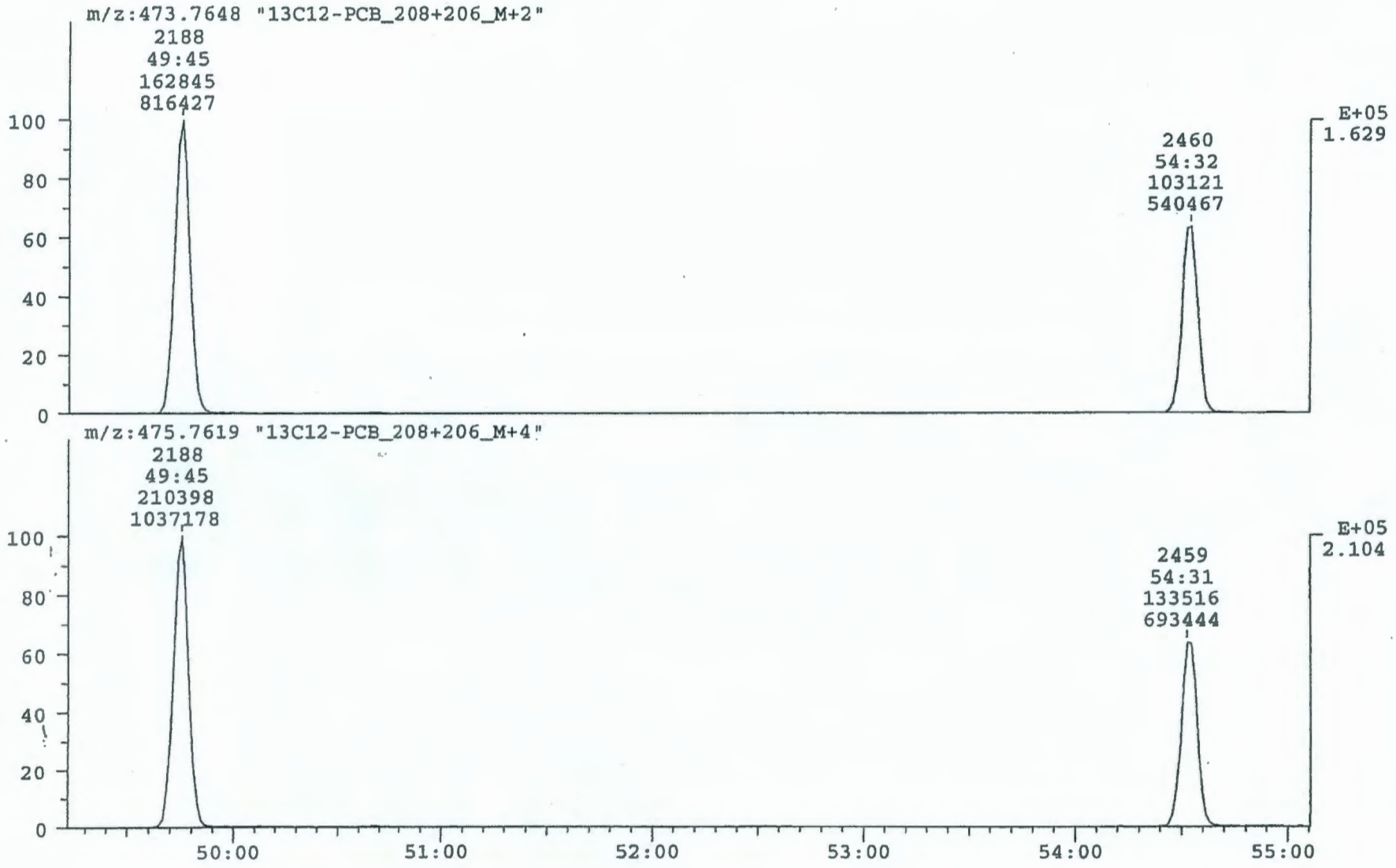
```
CHRO:  a07030743                                08-Mar-07   Elapse:  52:39      2353
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   2318 > 2388           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



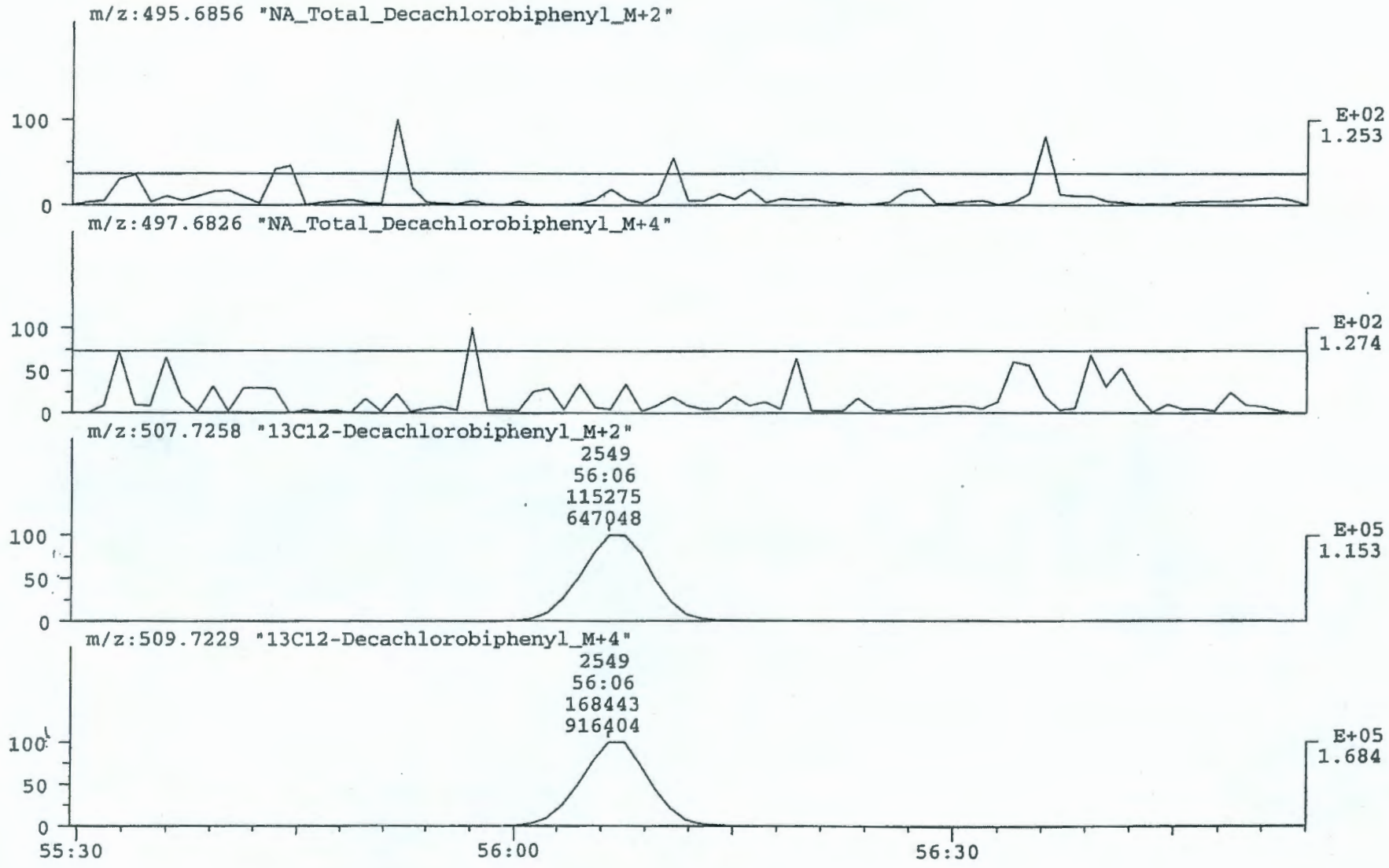
```
CHRO:  a07030743                                08-Mar-07  Elapse:  52:13      2328
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   2171 > 2486         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030743                                08-Mar-07  Elapse:  52:12      2327
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   2162 > 2492         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030743                                08-Mar-07   Elapse:  56:11      2554
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   2514 > 2594           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a07030743
Study: 1668 RT Mix4/Run3
Sample: WO=2990:75Mix4 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 6
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 14 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:01 min	14:03 min	36:04 min	1.00 sec
# 3	36:05 min	13:10 min	49:15 min	1.00 sec
# 4	49:16 min	7:44 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	1	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	1	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	1	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	1	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668n

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
- Purge time 1.5 min
- Purge flow 40.0 ml/min
- Gas saver is on
- Saver time 3.0 min
- Saver flow 15.0 ml/min

Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	265.0000
FVINLET	258.0000	FVSRC	843.0000	FWIN	0.7000
GCTC	202.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	0.8725	HVANAL	1292.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4771.6680	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2607.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7500	TCURR	0.7031
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 06:25:33.6

Autosampler has injected sample from vial 6
MID Time Window 1: Resolution is 7541
MID Time Window 2: Resolution is 7079
MID Time Window 3: Resolution is 7794
MID Time Window 4: Resolution is 9203
Analysis stopped at: 08-Mar-07 07:22:37.1 (run time 57.04 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75NIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030751.	Prep Date		SDG No	
Analysis ID	96251	Prep Exp Date		Date Received	
Analysis Date	03/07/07 21:10	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	158	140	63	56	1.13 *	/	
	PCB 1 (BZ)	12:14	00:00	0	1250340	402963	525799	167850	3.10	AVV/AVV	
	PCB 3 (BZ)	14:27	00:00	0	1244486	395716	426990	137091	3.14	ABV/ABV	
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	205	295	82	118	0.69 *	/	
	13C12-PCB 1	12:12	00:00	0	2361444	733215	983609	308530	3.22	AVV/AVV	
	13C12-PCB 3	14:26	00:00	0	2379066	730285	831569	254926	3.26	ABV/ABV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	233	383	93	153	0.61 *	/	
	PCB 4 (BZ)	14:44	00:00	0	547334	346720	181707	115698	1.58	AVV/AVV	
	PCB 15 (BZ)	20:43	00:00	0	988364	628402	251943	163643	1.57	AVV/AVV	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	333	185	133	74	1.80 *	/	
	13C12-PCB 4	14:43	00:00	0	1027459	633815	343160	214698	1.62	AVV/ABV	
	13C12-PCB 9	16:40	00:00	0	1672446	1031268	485701	309127	1.62	AVV/AVV	
	13C12-PCB 8	17:33	00:00	0	1764070	1103462	494328	311978	1.60	AVV/AVV	
	13C12-PCB 15	20:42	00:00	0	1780257	1114591	457218	290782	1.60	AVV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	160	138	64	55	1.16	/	
	PCB 19 (BZ)	17:55	00:00	0	355472	335377	99596	95542	1.06	ABV/ABV	
	PCB 16 (BZ)	20:42	00:00	0	326914	311571	83431	79577	1.05	ABV/ABV	D
	PCB 37 (BZ)	27:49	00:00	0	802506	785254	182066	175895	1.02	ABV/AVV	
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	580	328	232	131	1.77 *	/	
	13C12-PCB 19	17:54	00:00	0	631878	589905	176378	166571	1.07	AVV/ABV	
	13C12-PCB 32	21:09	00:00	0	1090347	1023595	269778	262574	1.07	AVV/AVV	
	13C12-PCB 31	23:25	00:00	0	1623497	1527748	395456	367149	1.06	AVV/ABV	
	13C12-PCB 28	23:43	00:00	0	1504220	1431227	352261	334002	1.05	AVB/AVV	
	13C12-PCB 37	27:48	00:00	0	1488164	1395212	330451	307486	1.07	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	128	160	51	64	0.80	/	
	PCB 54 (BZ)	21:04	00:00	0	670562	841024	172162	213605	0.80	ABV/ABV	
	PCB 43 (BZ)	25:48	00:00	0	707959	906491	162543	213196	0.78	ABV/ABV	
	PCB 44 (BZ)	26:37	00:00	0	771739	962526	167966	215607	0.80	ABV/ABV	M
	PCB 74 (BZ)	30:25	00:00	0	1204199	1549137	257504	335870	0.78	ABV/AVV	M
	PCB 56 (BZ)	31:25	00:00	0	1143001	1466862	249418	316560	0.78	AVV/AVV	D
	PCB 77 (BZ)	35:08	00:00	0	1157051	1476064	238845	302799	0.78	ABV/ABV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	148	140	59	56	1.05 *	/	
	13C12-PCB 54	21:03	00:00	0	554610	690443	143676	184447	0.80	ABV/ABV	
	13C12-PCB 52	25:33	00:00	0	771463	957342	185210	227847	0.81	AVV/ABV	
	13C12-PCB 79	33:29	00:00	0	1156704	1424295	242070	301020	0.81	ABV/ABV	
	13C12-PCB 81	34:31	00:00	0	1048679	1303681	226733	271100	0.80	ABV/ABV	D

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cmax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030751.	Prep Date		SDG No	
Analysis ID	96251	Prep Exp Date		Date Received	
Analysis Date	03/07/07 21:10	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	13C12-PCB 77	35:07	00:00	0	1082564	1339197	223342	284528	0.81	ABB/ABB	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	193	175	77	70	1.10 *	/	
	PCB 104 (BZ)	26:30	00:00	0	1317389	840124	300393	195562	1.57	ABV/ABV	
	PCB 98 (BZ)	29:55	00:00	0	866799	552649	192313	122979	1.57	ABV/ABV	D
	PCB 125 (BZ)	33:37	00:00	0	1279247	802529	269082	169692	1.59	ABV/ABV	D
	PCB 110 (BZ)	34:27	00:00	0	1342031	840265	290807	177120	1.60	AVV/AVV	D
	PCB 126 (BZ)	41:41	00:00	0	1515399	974881	311586	202197	1.55	ABV/ABV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	148	130	59	52	1.13 *	/	
	13C12-PCB 104	26:29	00:00	0	1230798	763947	286336	177432	1.61	ABV/ABV	D
	13C12-PCB 95	29:31	00:00	0	907246	563415	200285	129752	1.61	ABV/ABV	D
	13C12-PCB 101	32:22	00:00	0	925000	582420	200799	127987	1.59	ABV/AVV	
	13C12-PCB 111	35:00	00:00	0	1183642	738122	257882	161150	1.60	ABV/ABV	
	13C12-PCB 123	37:02	00:00	0	1450680	914651	305711	190281	1.59	ABV/ABV	D
	13C12-PCB 118	37:21	00:00	0	1531032	948690	315690	200210	1.61	AVV/AVV	D
	13C12-PCB 114	37:54	00:00	0	1490457	921468	296958	187677	1.62	AVV/AVV	D
	13C12-PCB 105	38:36	00:00	0	1461297	910300	304135	189950	1.61	ABB/AVV	D
	13C12-PCB 127	39:58	00:00	0	1544457	967145	321789	204317	1.60	AVV/AVV	
	13C12-PCB 126	41:40	00:00	0	1530701	965586	314410	197476	1.59	ABV/ABV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	148	128	59	51	1.16	/	
	PCB 155 (BZ)	32:04	00:00	0	1104439	864536	242090	188319	1.28	ABV/ABV	
	PCB 138 (BZ)	40:30	00:00	0	982084	778906	205724	156943	1.26	ABV/ABV	
	PCB 169 (BZ)	47:52	00:00	0	1306396	1033416	263737	209816	1.26	AVV/AVV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	133	145	53	58	0.91 *	/	
	13C12-PCB 155	32:03	00:00	0	1036578	780250	229481	175042	1.33	ABV/ABV	D
	13C12-PCB 153	39:10	00:00	0	1032444	808024	210378	171738	1.28	ABV/ABV	D
	13C12-PCB 138	40:28	00:00	0	997950	781219	211843	162411	1.28	ABV/ABV	
	13C12-PCB 167	43:25	00:00	0	1272121	998452	258991	207684	1.27	AVV/AVV	
	13C12-PCB 156	44:35	00:00	0	1320367	840018	256593	200463	1.57 *	ABV/ABV	RD
	13C12-PCB 157	44:40	00:00	0	1224382	1126975	285550	220747	1.09	AVB/AVB	M
	13C12-PCB 169	47:50	00:00	0	1242963	965288	252431	196538	1.29	AVV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	128	125	51	50	1.02	/	
	PCB 188 (BZ)	37:48	00:00	0	1089092	1033351	222263	212593	1.05	ABV/ABV	
	PCB 189 (BZ)	50:21	00:00	0	1165542	1146996	237933	218850	1.02	AVV/AVV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	188	153	75	61	1.23 *	/	
	13C12-PCB 188	37:47	00:00	0	1071557	1020936	229675	215867	1.05	ABV/ABV	D
	13C12-PCB 178	40:51	00:00	0	676531	641151	138602	131979	1.06	ABV/ABV	
	13C12-PCB 180	45:56	00:00	0	860543	797060	176369	167380	1.08	ABV/ABV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cemax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030751.	Prep Date		SDG No	
Analysis ID	96251	Prep Exp Date		Date Received	
Analysis Date	03/07/07 21:10	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

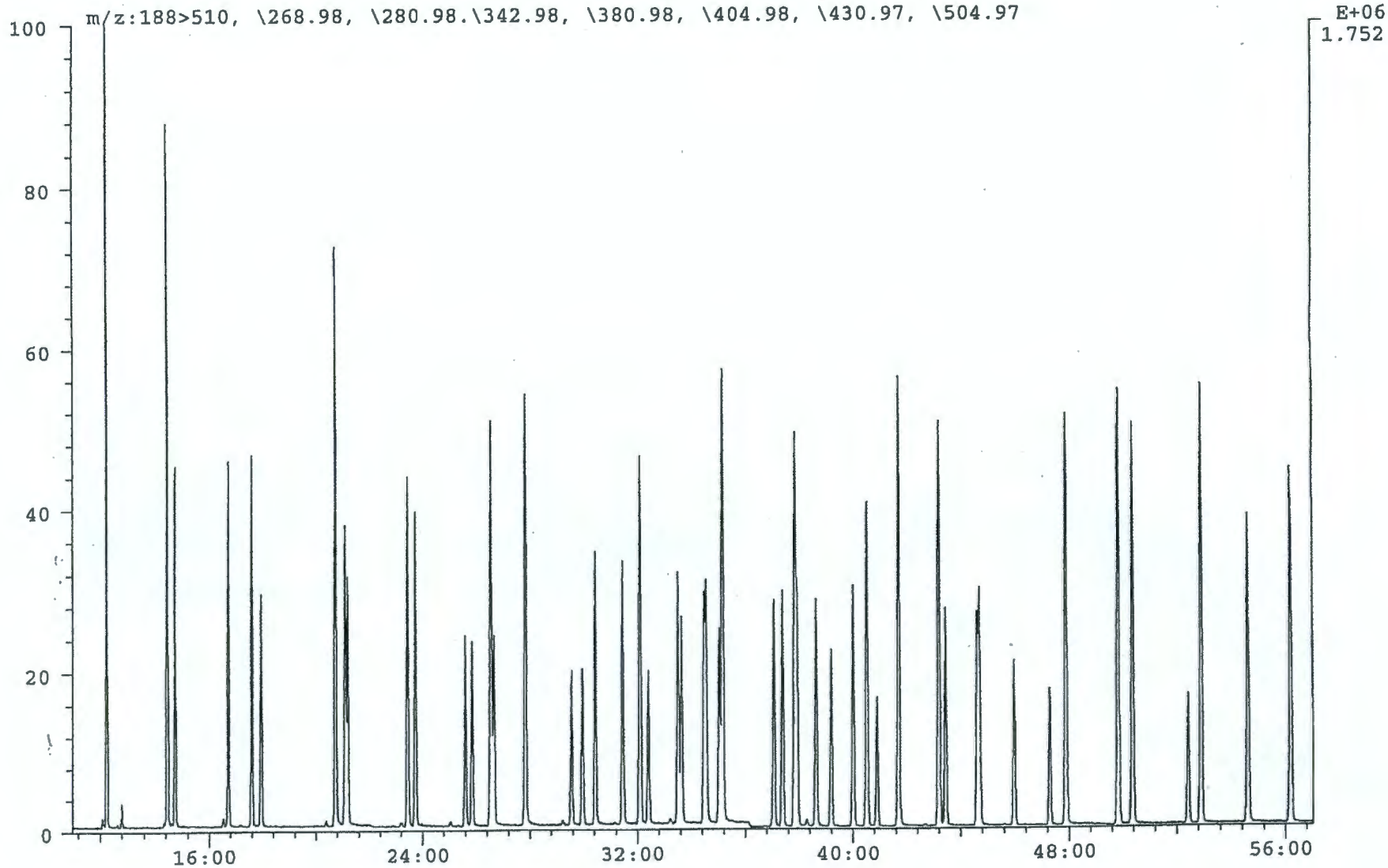
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	13C12-PCB 170	47:16	00:00	0	714910	665415	144314	137785	1.07	ABV/AVV	
	13C12-PCB 189	50:20	00:00	0	1171193	1106110	235972	222897	1.06	ABV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	138	143	55	57	0.96	/	
	PCB 202 (BZ)	43:11	00:00	0	1216349	1343957	247953	275029	0.91	ABV/ABV	
	PCB 205 (BZ)	52:53	00:00	0	1401896	1547815	282902	316283	0.91	AVV/AVV	
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	138	178	55	71	0.77	/	
	13C12-PCB 202	43:10	00:00	0	833731	911746	169293	191120	0.91	ABV/ABV	D
	13C12-PCB 194	52:23	00:00	0	668447	731737	129147	145122	0.91	ABB/ABV	
	13C12-PCB 205	52:52	00:00	0	961592	1076341	190393	209941	0.89	ABV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	180	188	72	75	0.96 *	/	
	PCB 208 (BZ)	49:48	00:00	0	1165677	1454642	228808	289011	0.80	ABV/ABV	
	PCB 206 (BZ)	54:35	00:00	0	837138	1069718	163934	215136	0.78	ABV/ABV	
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	155	150	62	60	1.03 *	/	
	13C12-PCB 208	49:47	00:00	0	824353	1030598	166834	208597	0.80	AVV/AVV	
	13C12-PCB 206	54:34	00:00	0	560196	709966	113182	146060	0.79	AVV/ABV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	108	85	43	34	1.26 *	/	
	PCB 209 (BZ)	56:10	00:00	0	927042	1325680	174866	242385	0.70	ABV/ABV	
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	155	173	62	69	0.90 *	/	
	13C12-PCB 209	56:09	00:00	0	656301	919743	119990	172872	0.71	ABV/ABV	

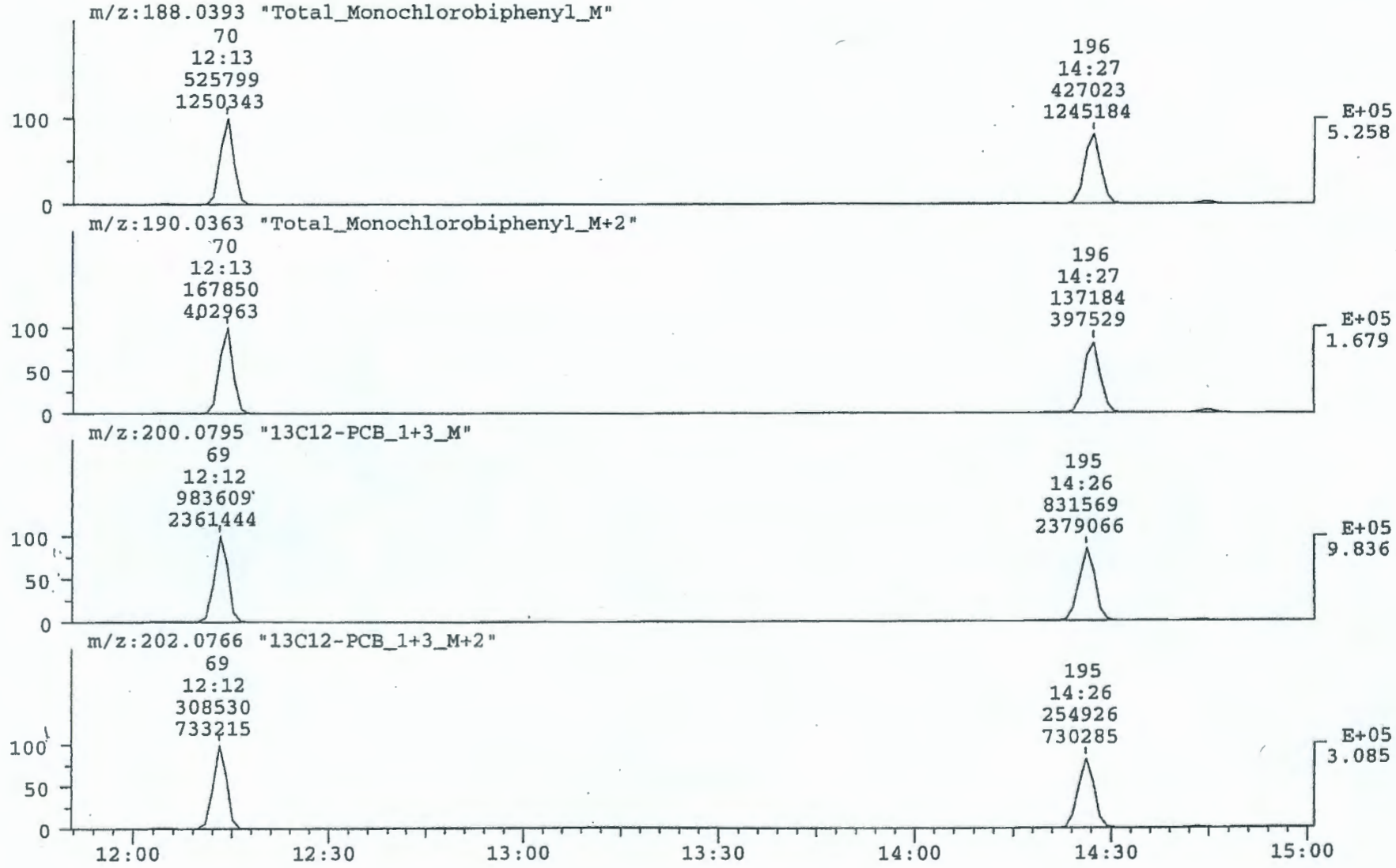
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cmax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

```
CHRO:  a07030751                                07-Mar-07   Elapse:  56:10      2554
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   2 > 2602               Masses:  181 > 510
Area:  5, 0.50, 0      Baseline  :   100, 3                  Label :  0, 0.0
Disp:  Height  Area
```

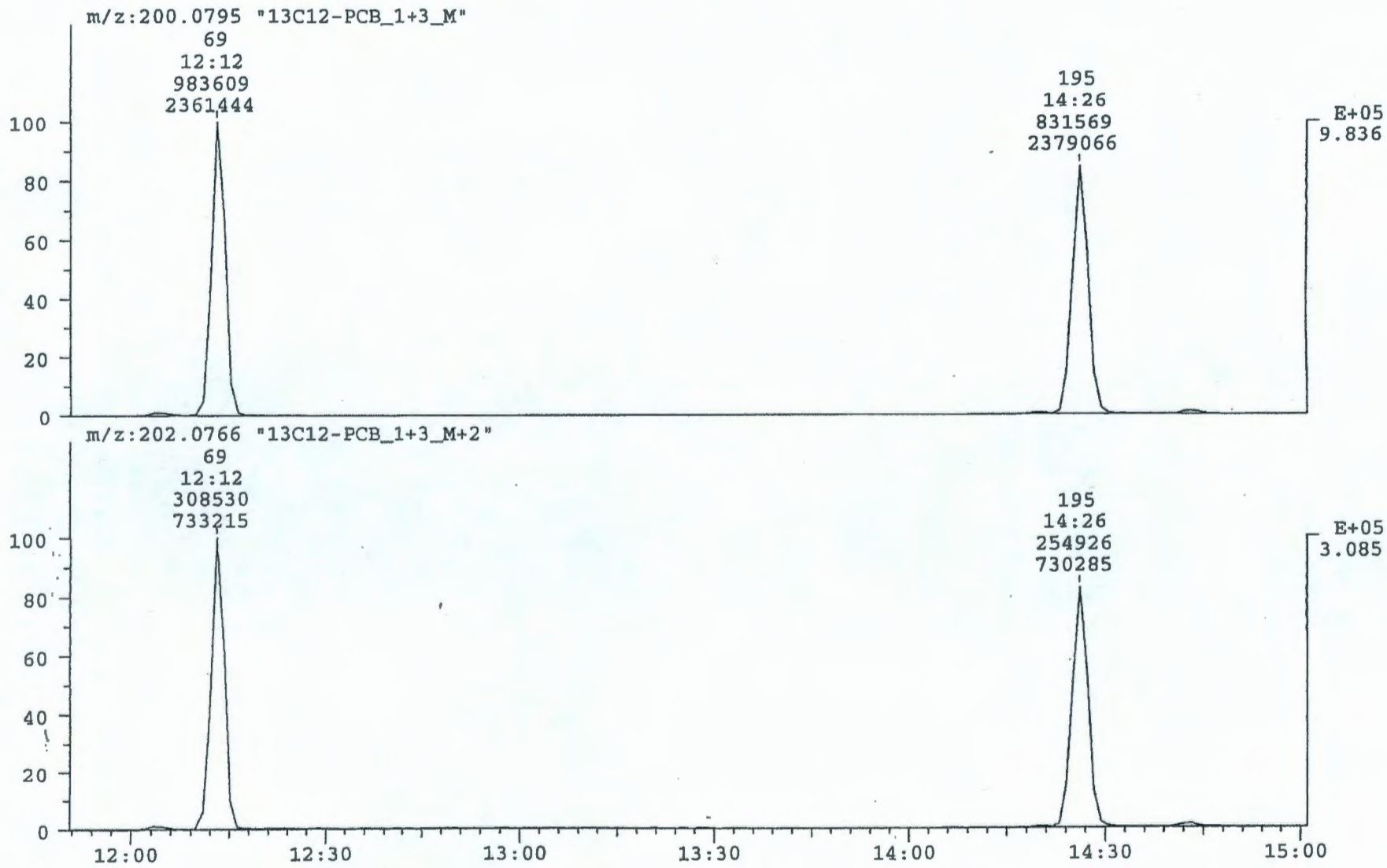
Int DCS 3-17-07
Calc DCS 3-19-07
QC SYN 3/19/07



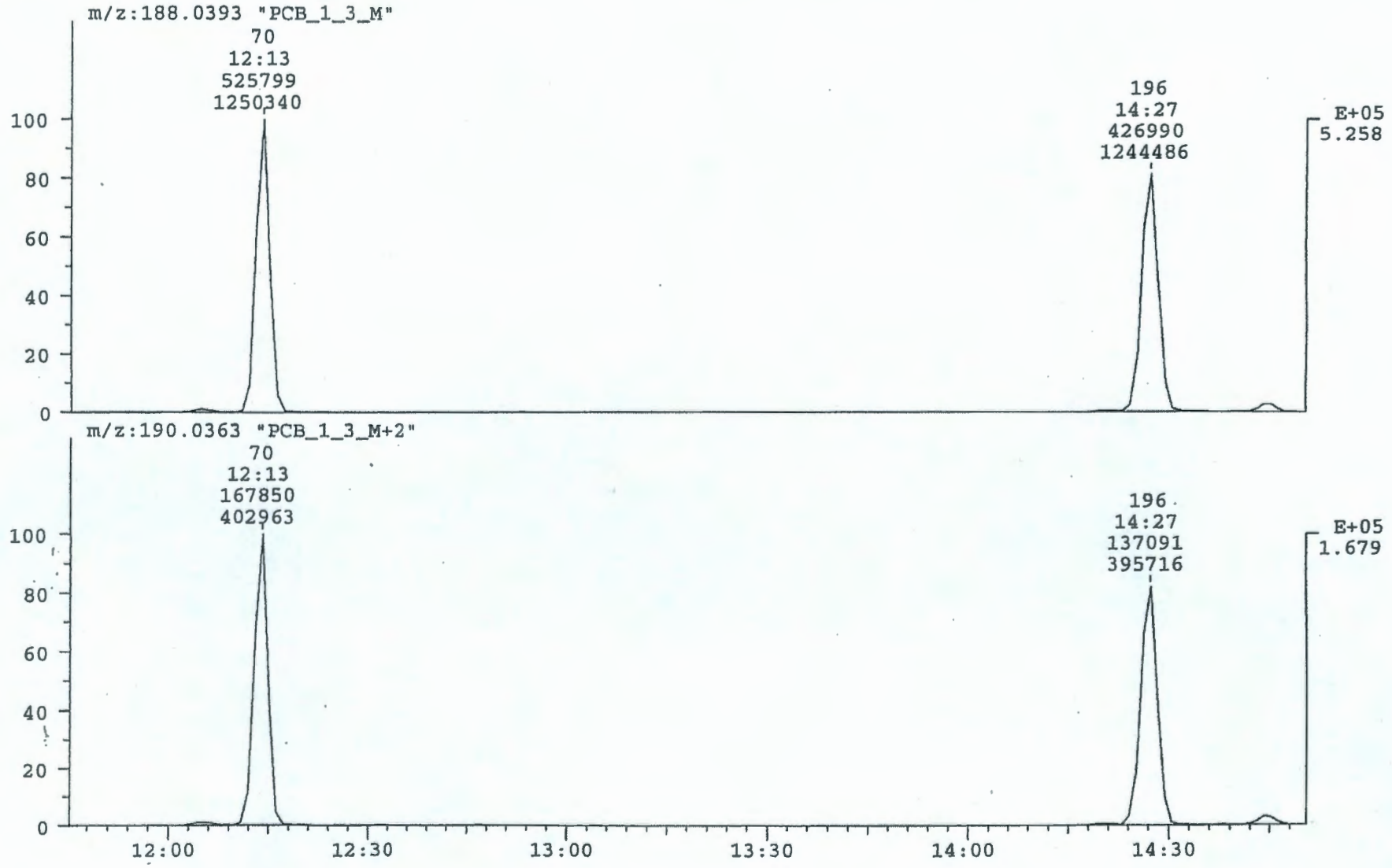
```
CHRO:  a07030751                                07-Mar-07   Elapse:  56:11      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



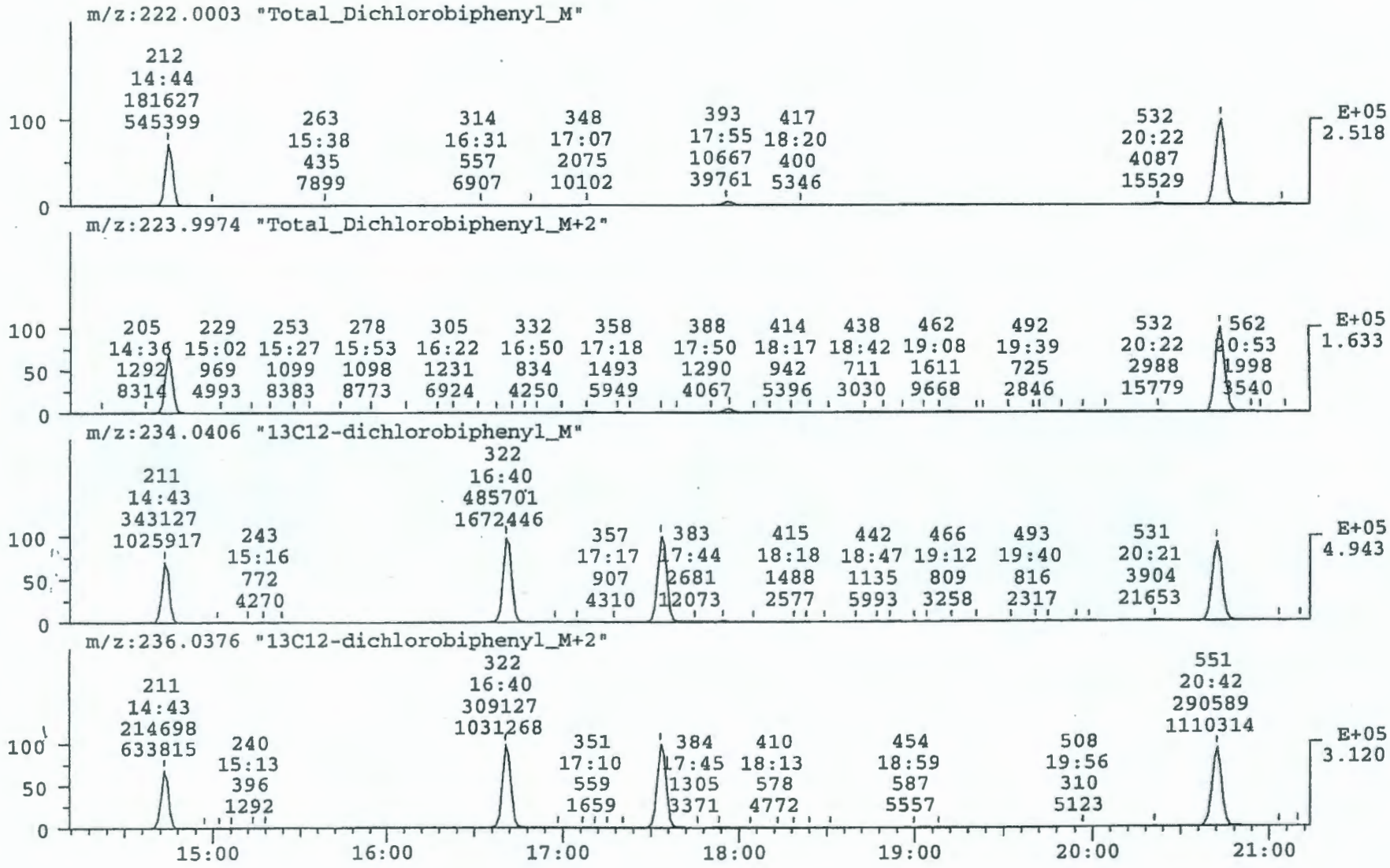
```
CHRO:  a07030751                                07-Mar-07   Elapse:  13:25.9      138
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



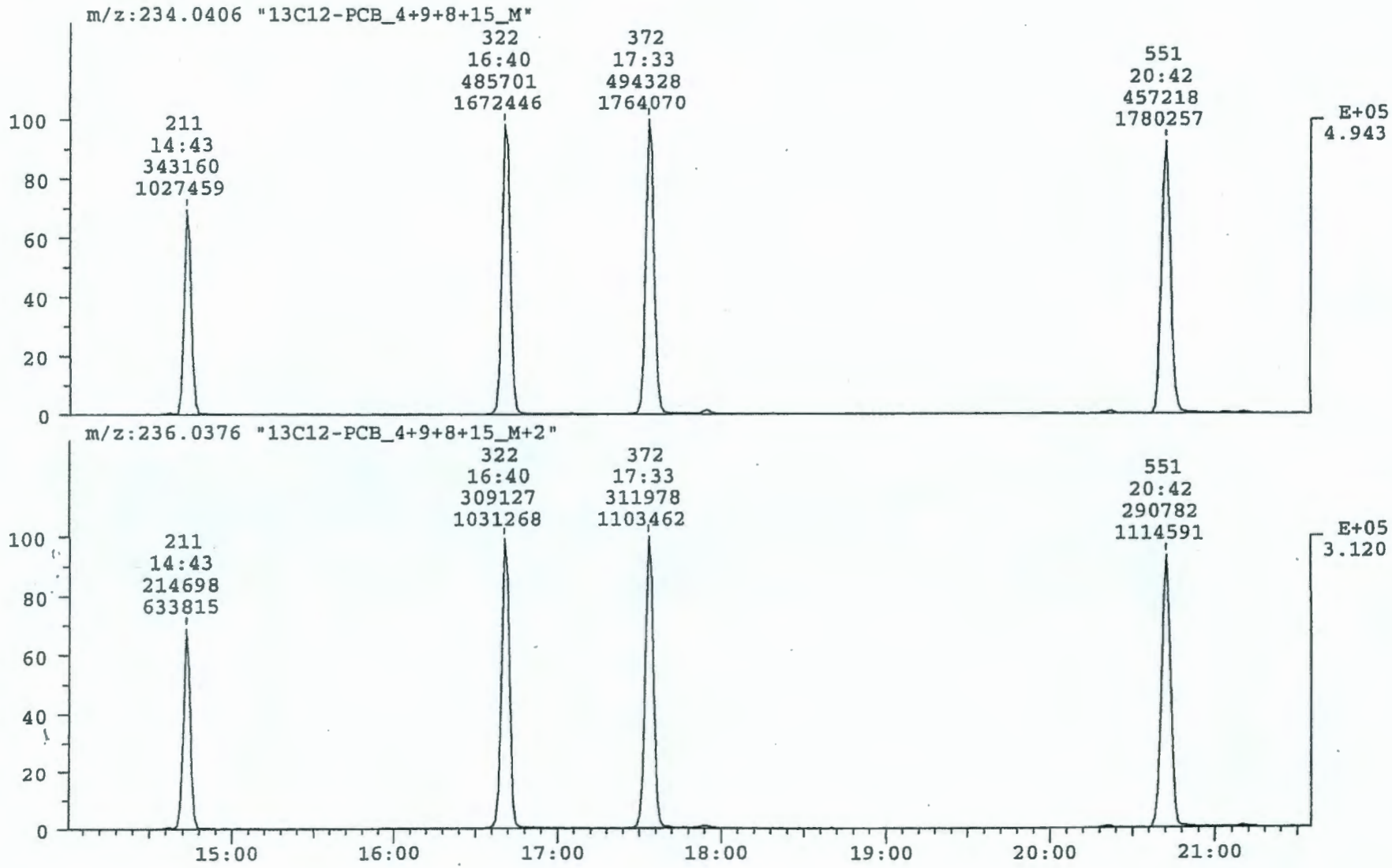
```
CHRO:  a07030751                                07-Mar-07   Elapse:  13:25.9      138
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   43 > 218              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



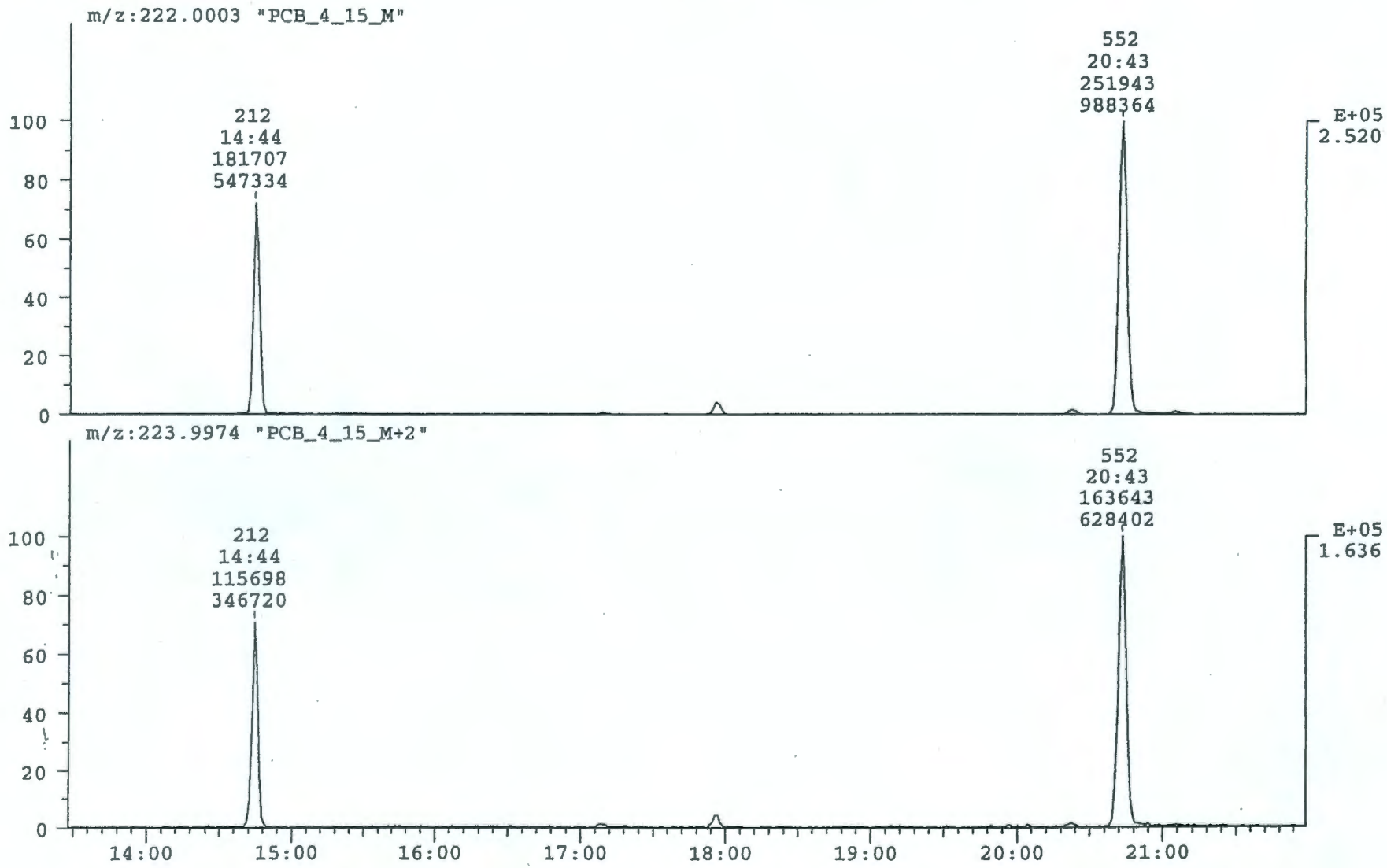
```
CHRO:  a07030751                                07-Mar-07   Elapse:  17:42.6      381
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   181 > 581             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030751                                07-Mar-07   Elapse:  17:42.6     381
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   171 > 601             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

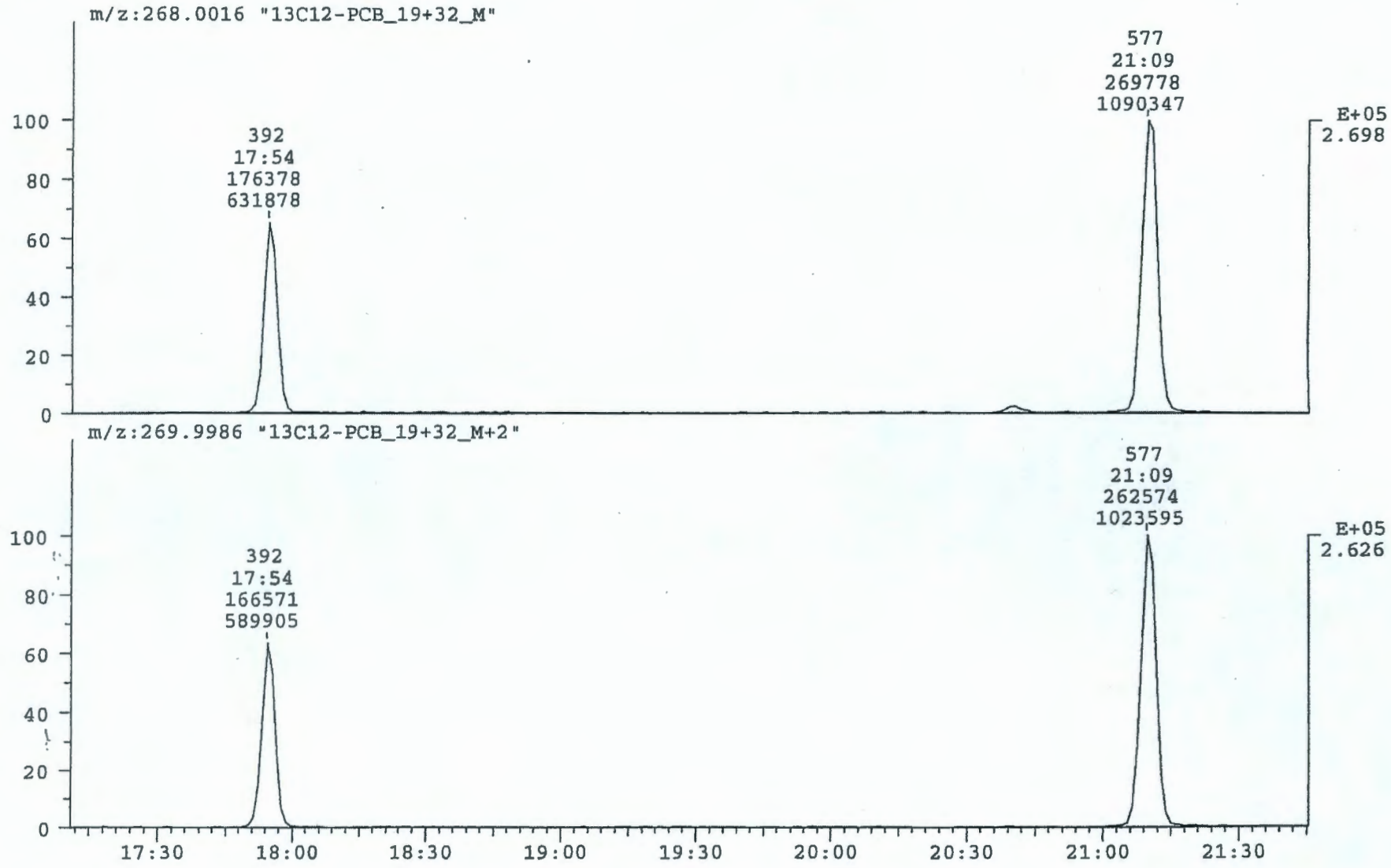


```
CHRO:  a07030751                                07-Mar-07   Elapse:  17:42.6      381
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   140 > 624             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

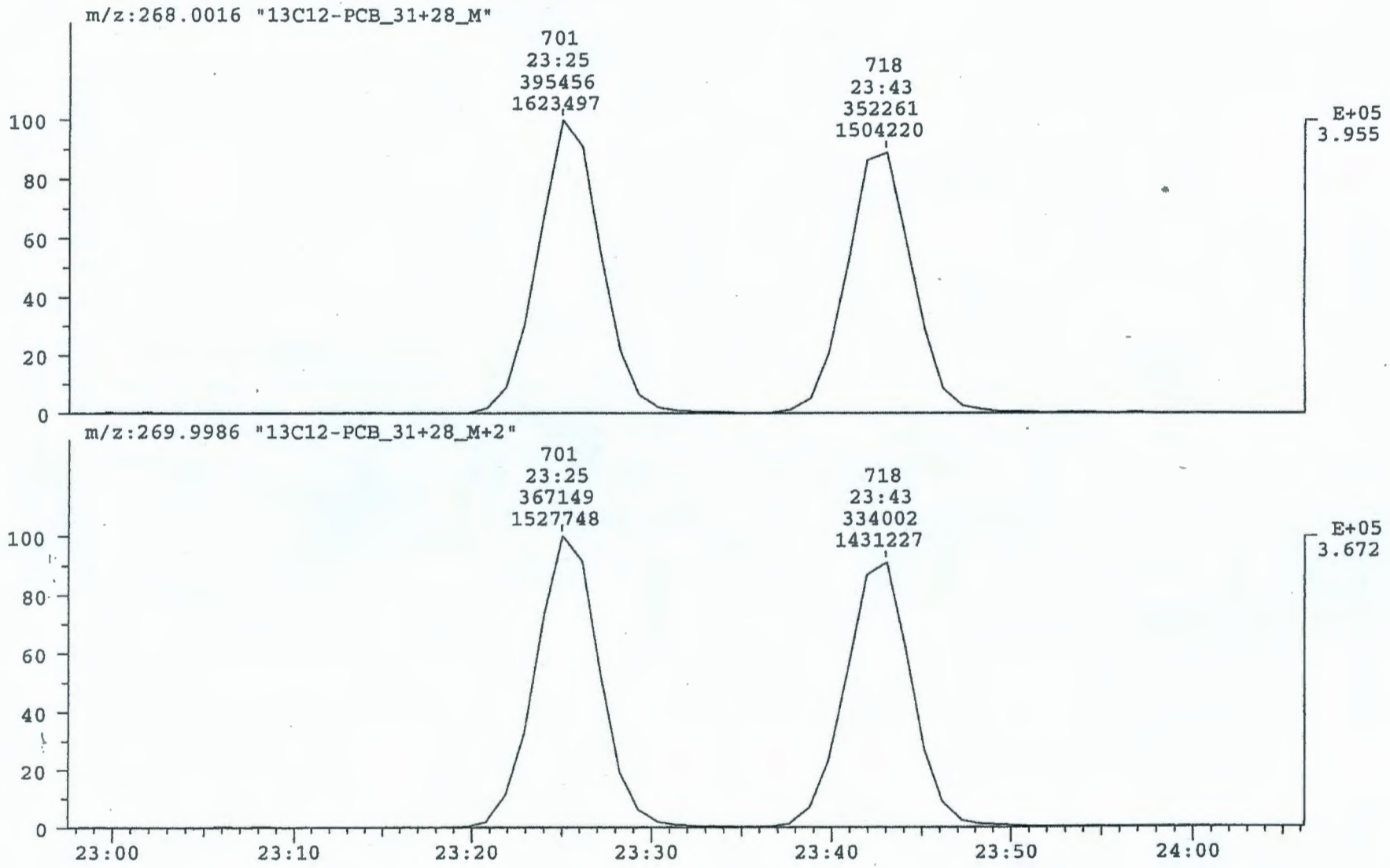


```
CHRO:  a07030751                                07-Mar-07  Elapse:  22:53.3      671
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  21:10:24    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   351 > 991           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

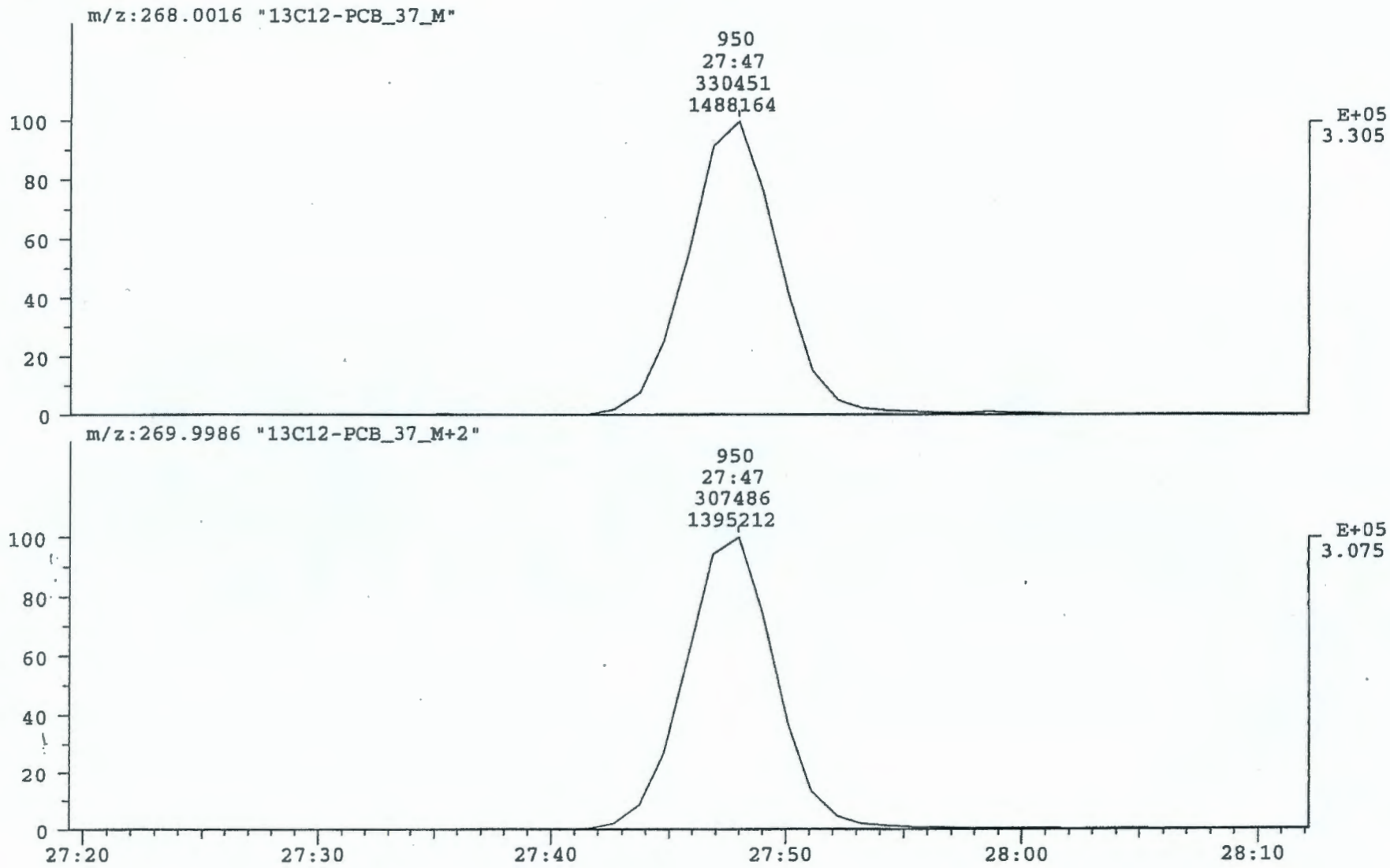
```
CHRO:  a07030751                                07-Mar-07  Elapse:  19:17.7      471
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  21:10:24    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   351 > 611           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1              Label :  -3, 3.0
Disp:  Height  Area
```



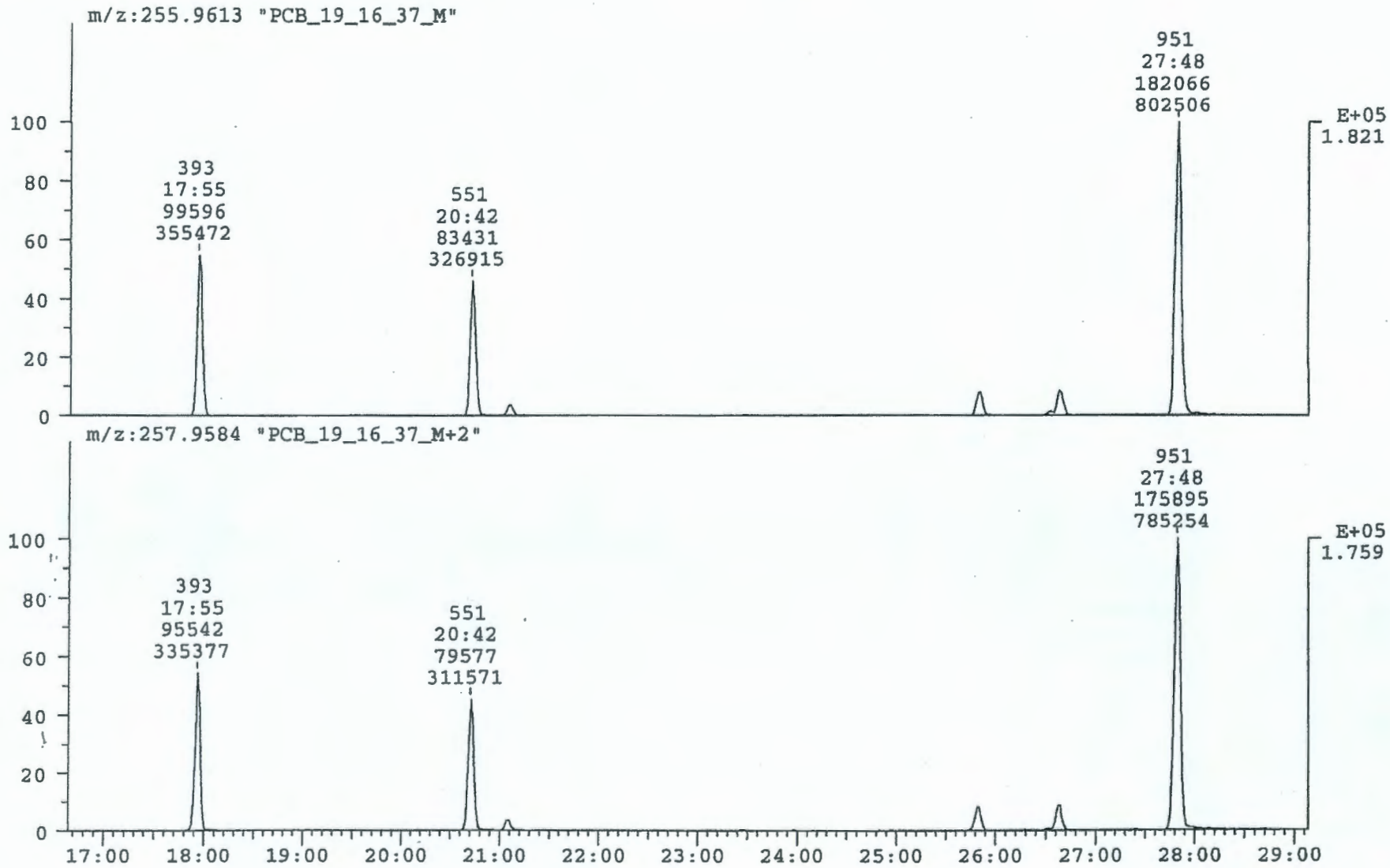
```
CHRO:  a07030751                                07-Mar-07   Elapse:  23:24.9      700
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   675 > 740             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



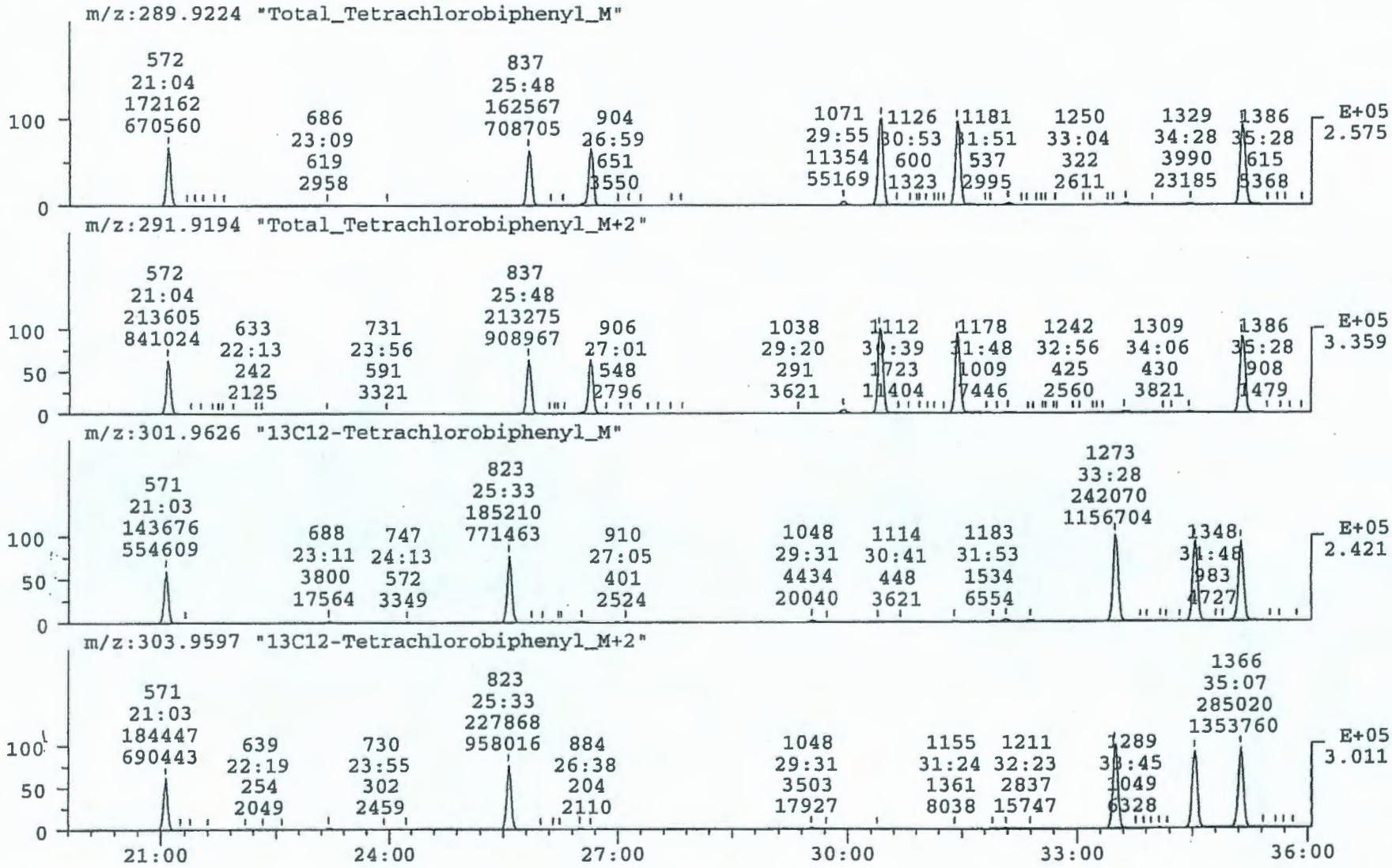
```
CHRO:  a07030751                                07-Mar-07  Elapse:  27:45.8      948
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  21:10:24    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   923 > 973           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



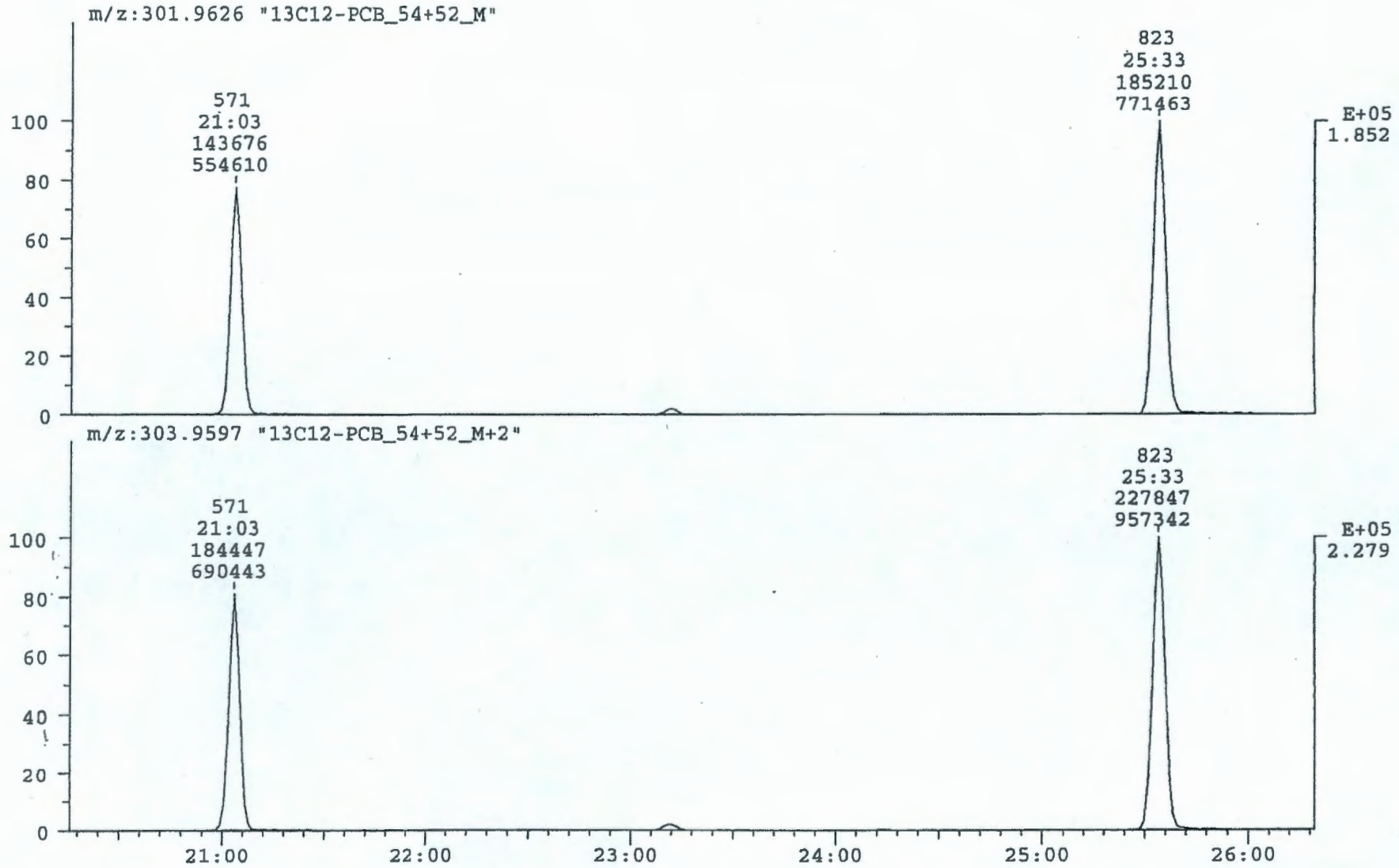
```
CHRO:  a07030751                                07-Mar-07   Elapse:  22:53.3      671
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   321 > 1026            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



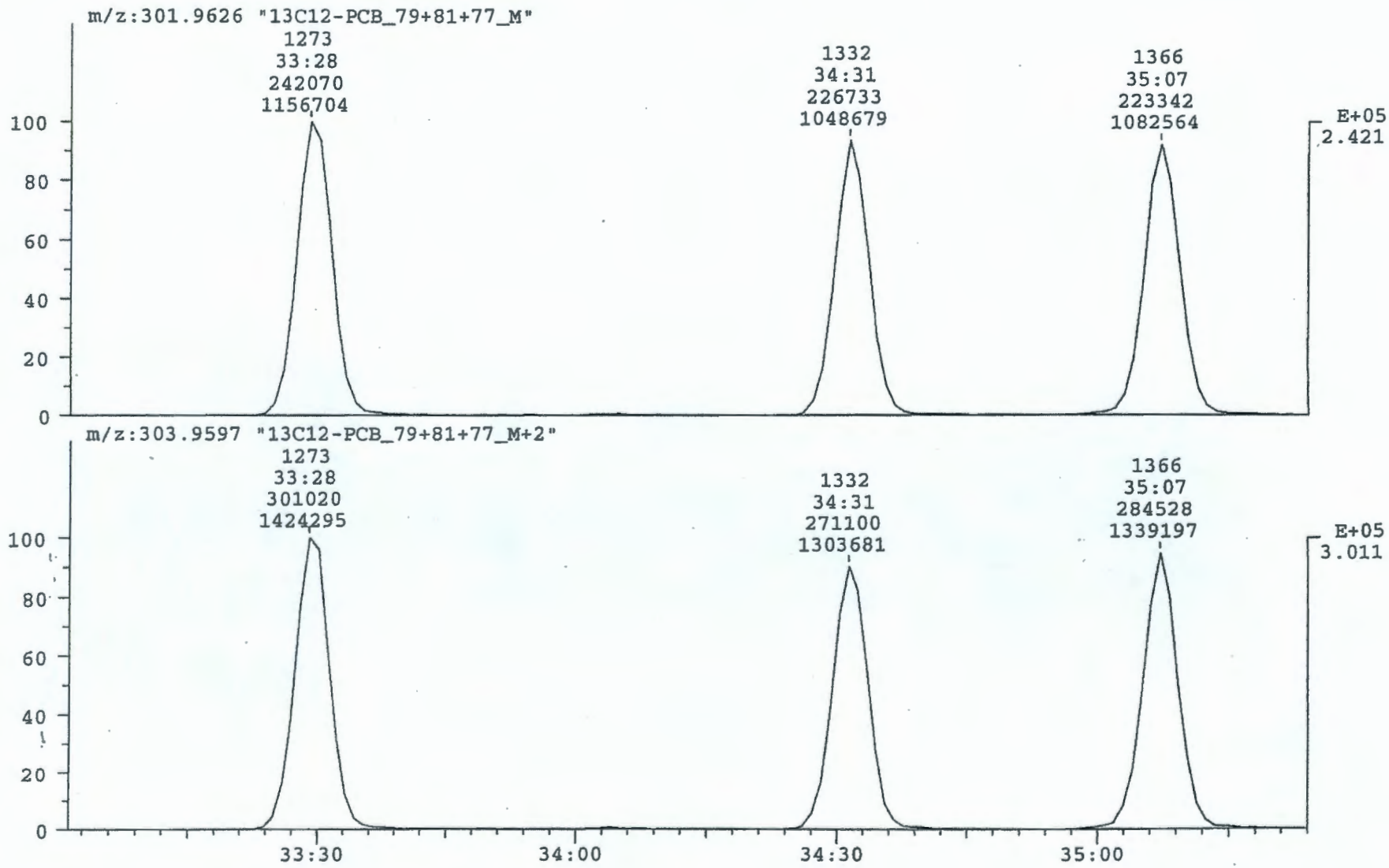
CHRO: a07030751 07-Mar-07 Elapse: 27:55.3 957
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 500 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



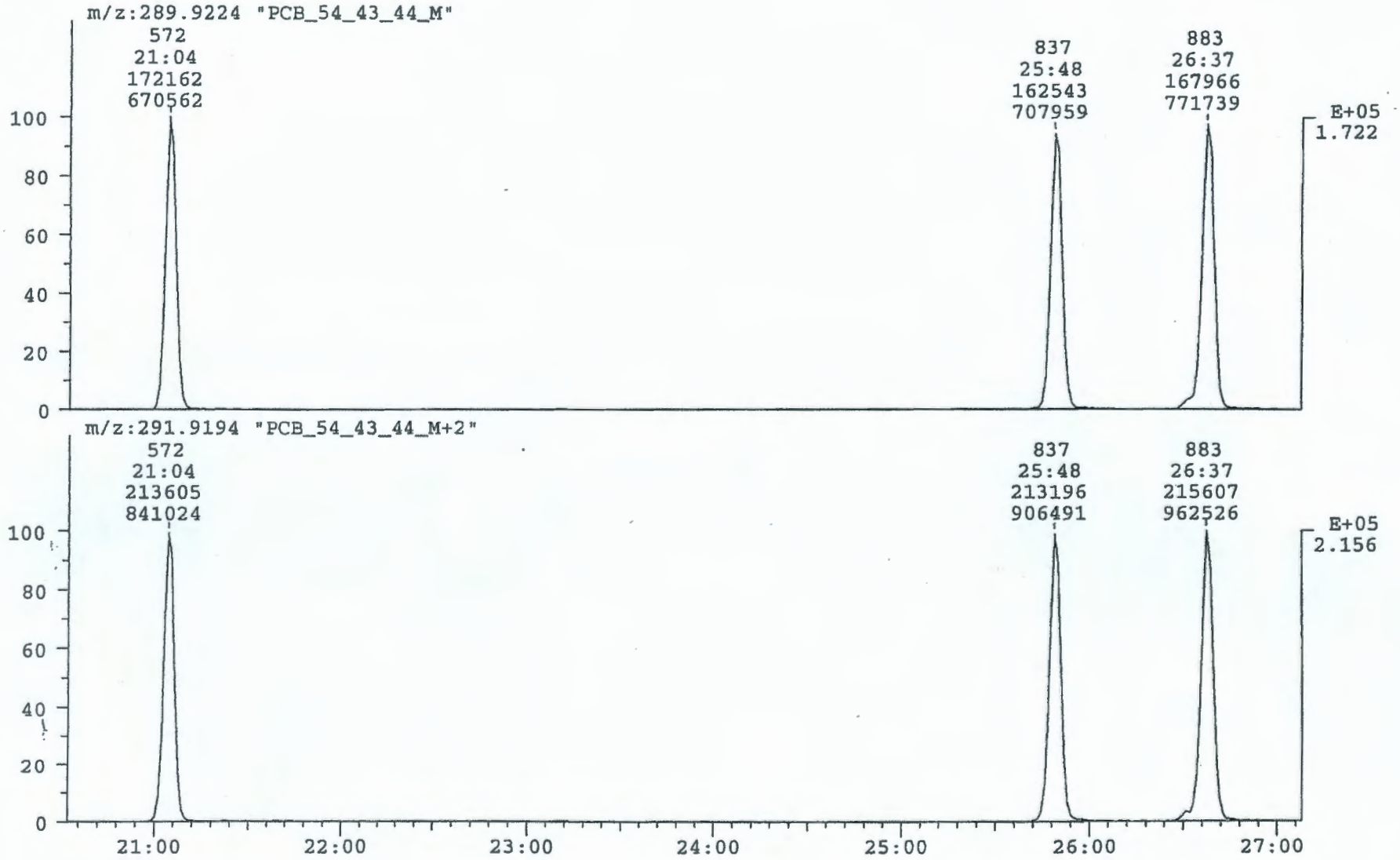
```
CHRO:  a07030751                                07-Mar-07   Elapse:  23:19.7      696
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   526 > 866             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



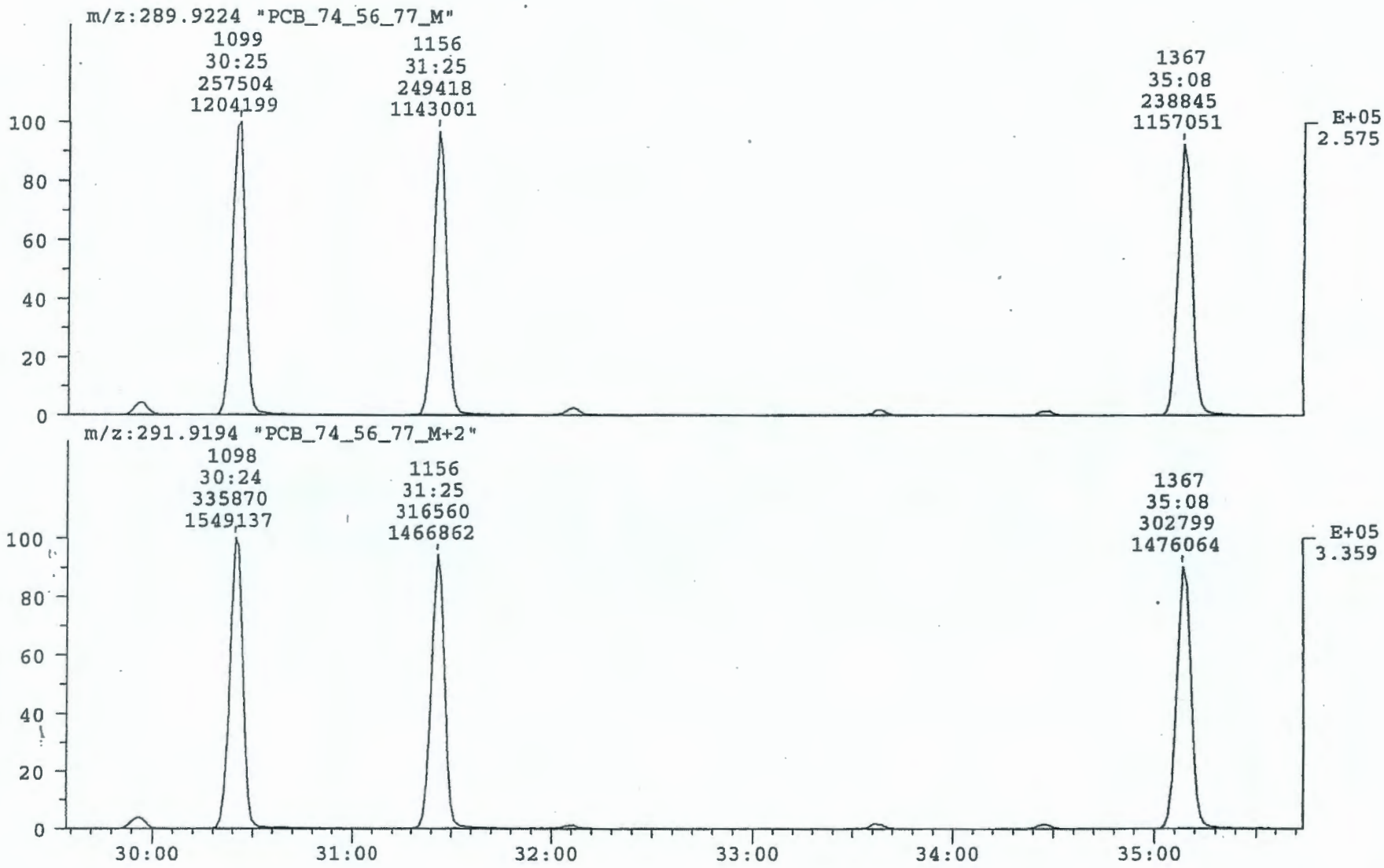
```
CHRO:  a07030751                                07-Mar-07   Elapse:  34:15      1317
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1247 > 1382           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



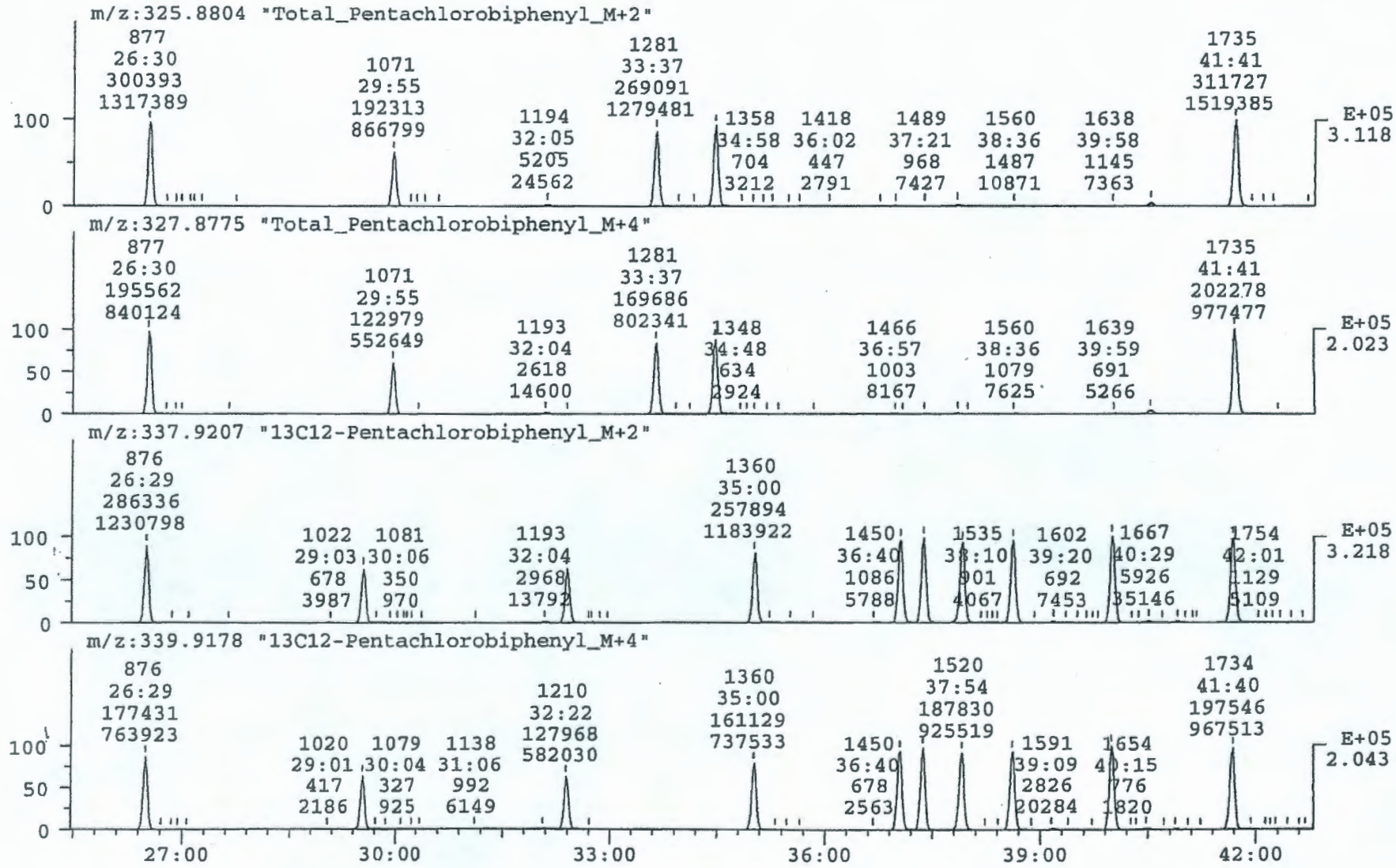
```
CHRO:  a07030751                                07-Mar-07  Elapse:  23:52.4      727
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  21:10:24    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   542 > 912           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



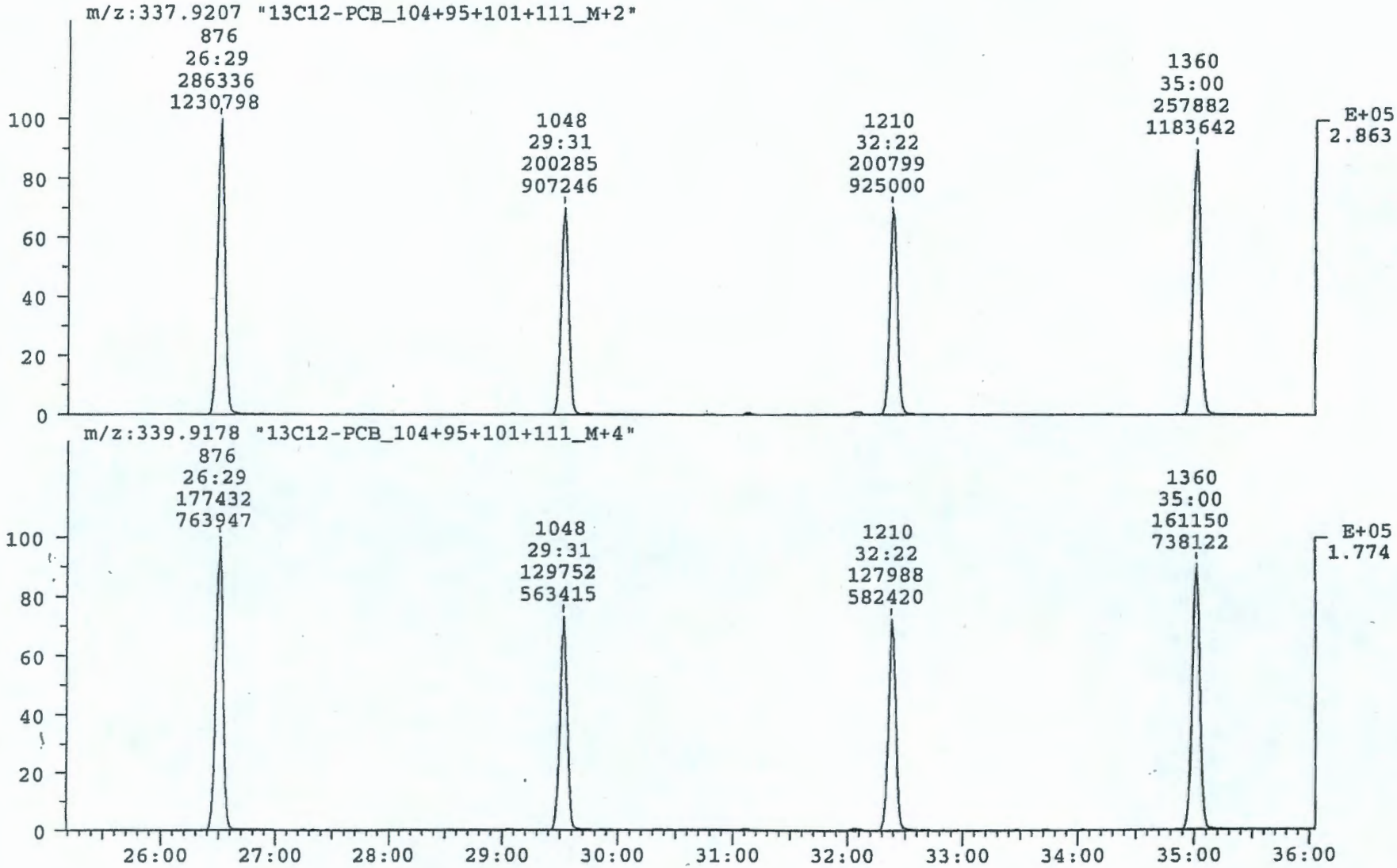
```
CHRO:  a07030751                                07-Mar-07   Elapse:  32:39      1226
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1051 > 1401           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



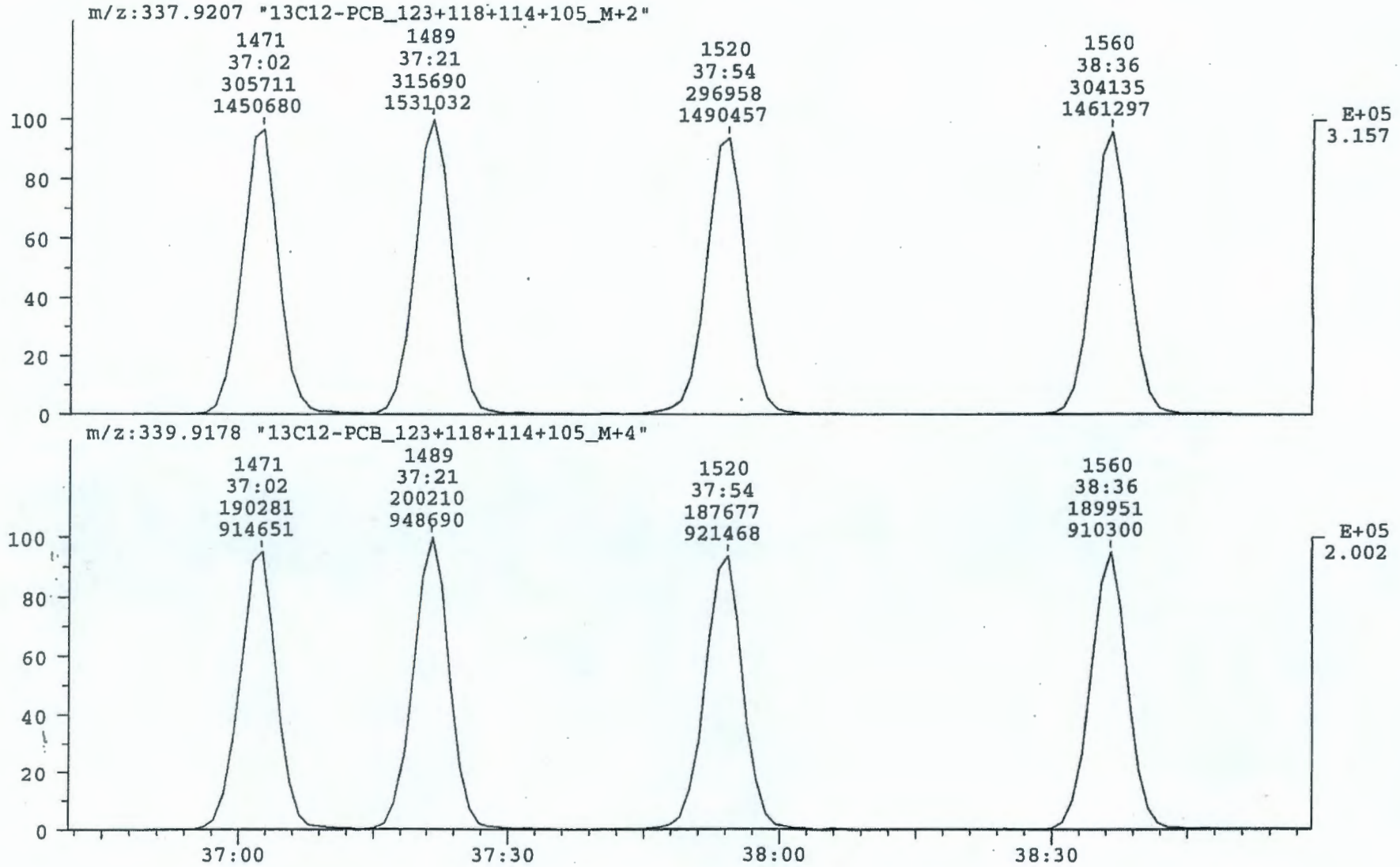
CHRO: a07030751 07-Mar-07 Elapse: 34:08 1310
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 817 > 1798 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



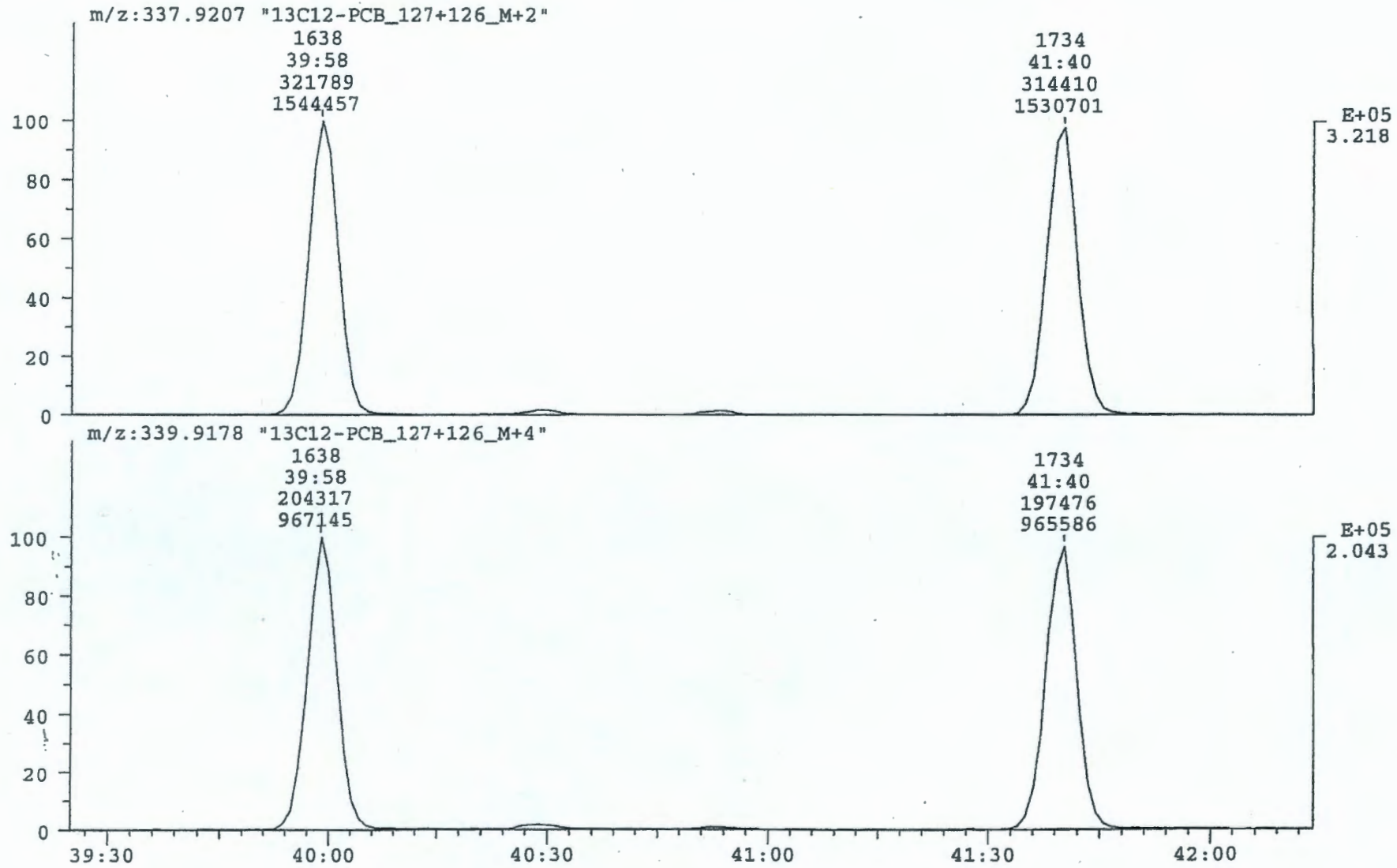
CHRO: a07030751 07-Mar-07 Elapse: 30:36 1110
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 801 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



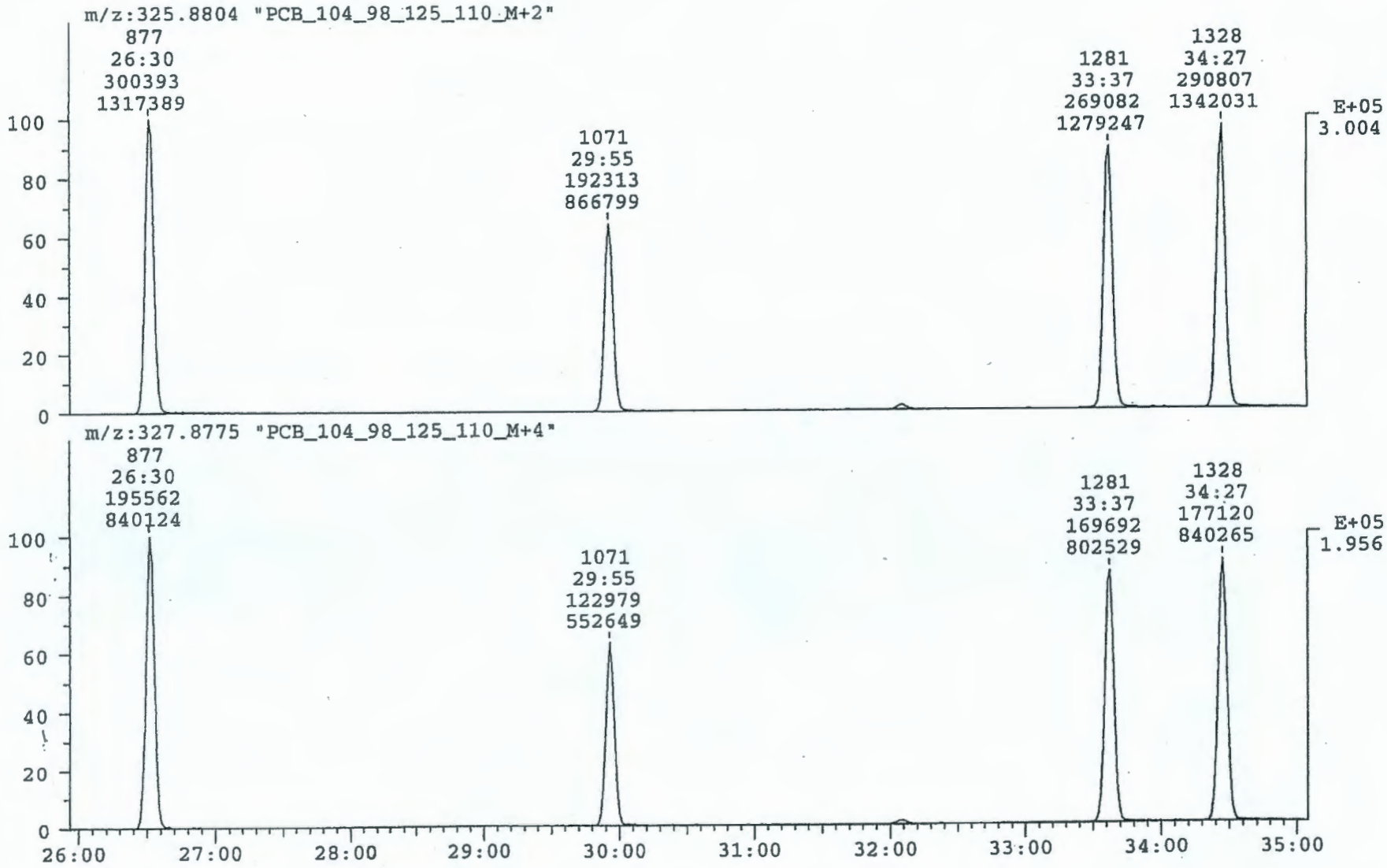
```
CHRO:  a07030751                                07-Mar-07   Elapse:  37:49      1516
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1451 > 1581           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



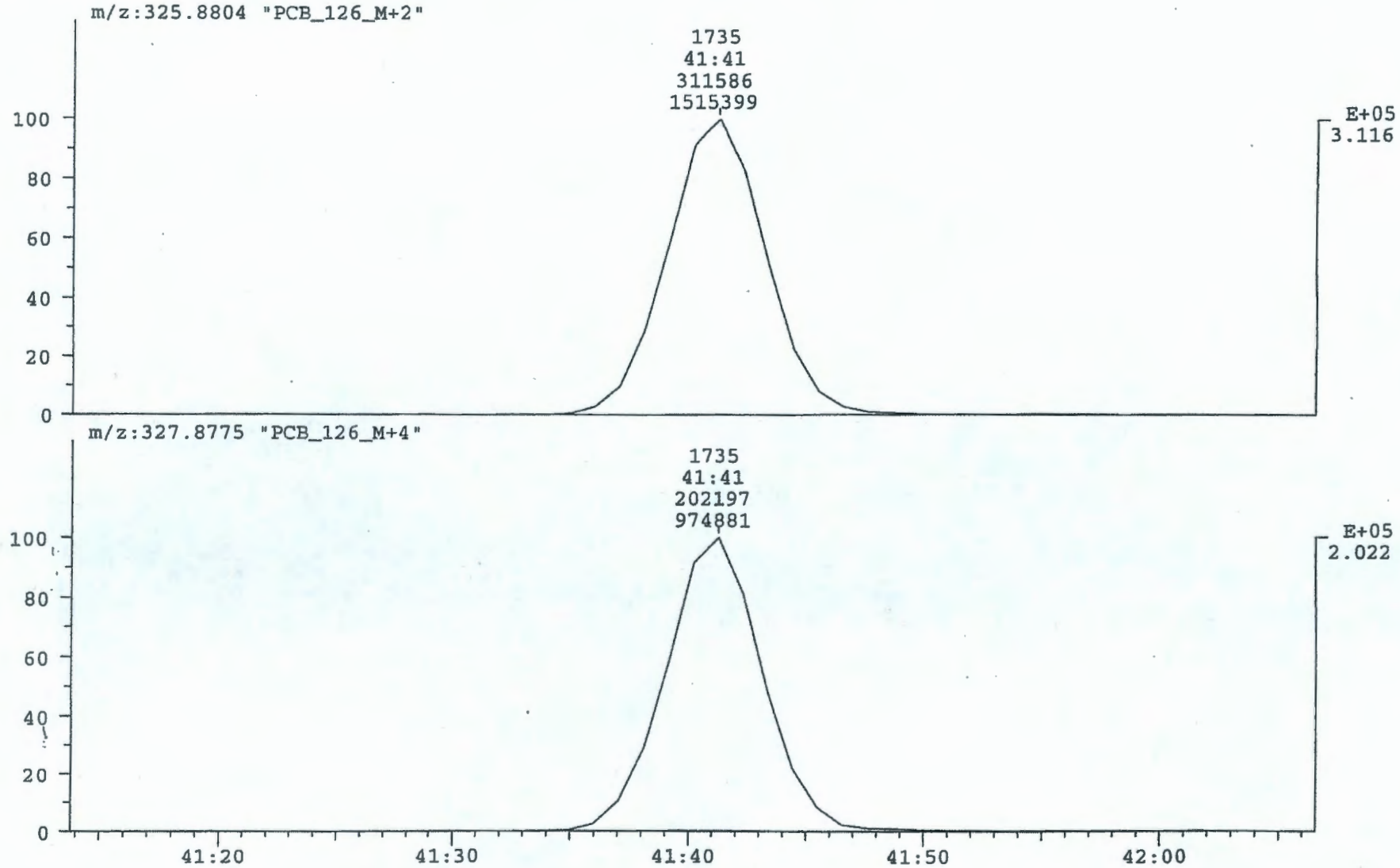
```
CHRO:  a07030751                                07-Mar-07   Elapse:  40:49      1686
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  7
Peak:  100.00  ppm    Label wndw:  1606 > 1766              Masses:  181 > 510
Area:  5, 0.50, 15    Baseline  :  100, 3                   Label :  -3, 3.0
Disp:  Height  Area
```



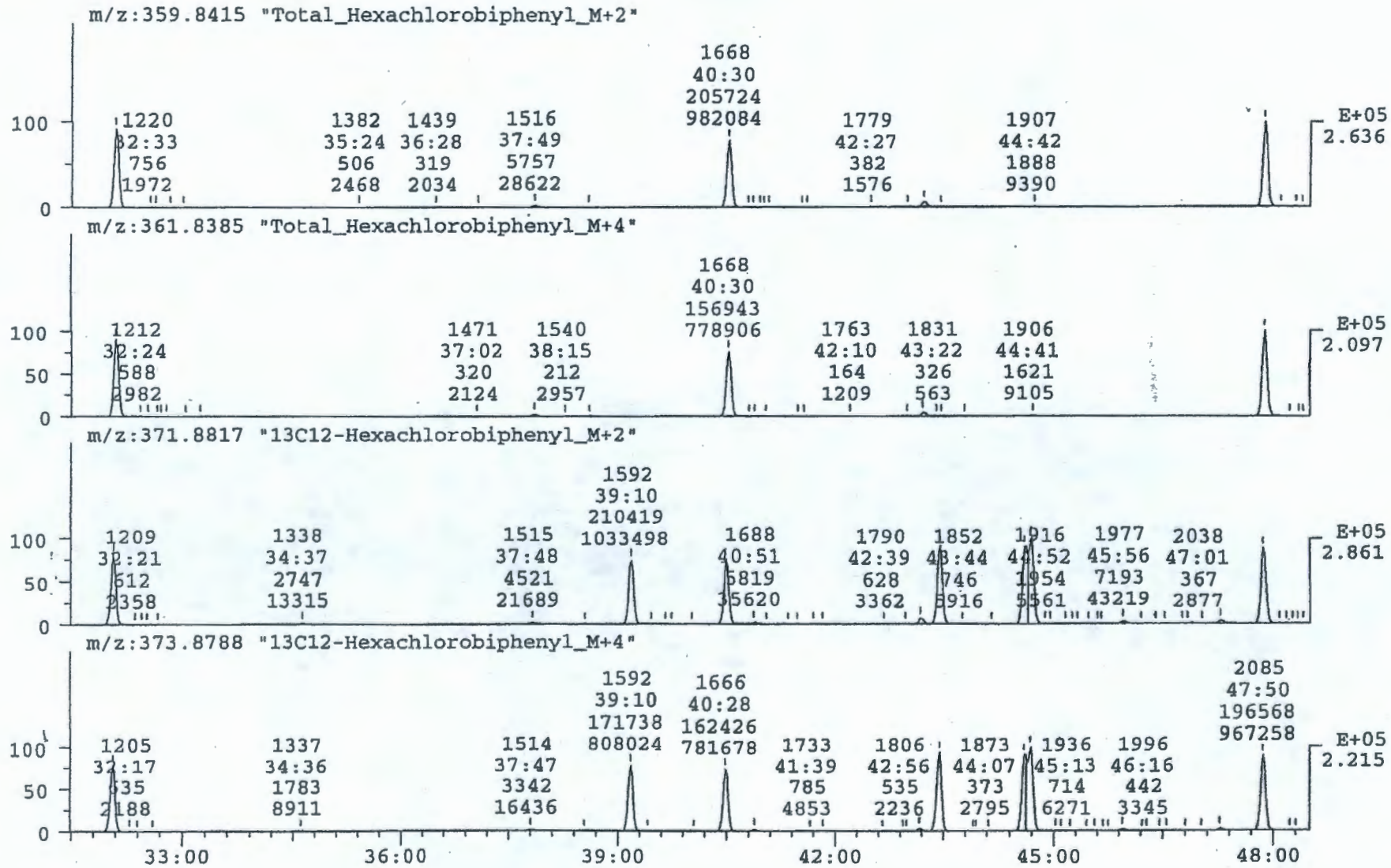
CHRO: a07030751 07-Mar-07 Elapse: 30:30 1104
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 844 > 1364 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



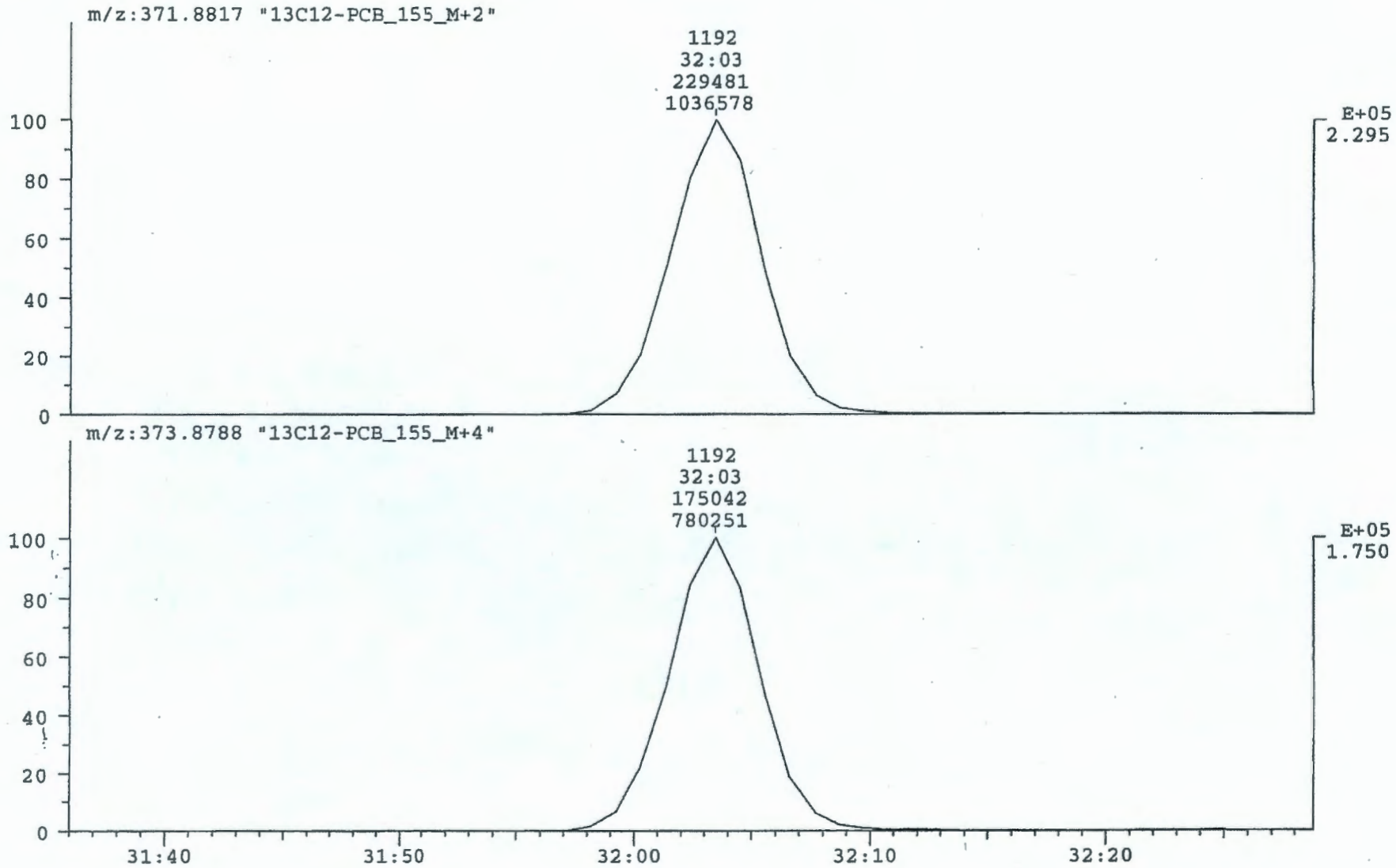
```
CHRO:  a07030751                                07-Mar-07   Elapse:  41:40      1734
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1709 > 1759           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



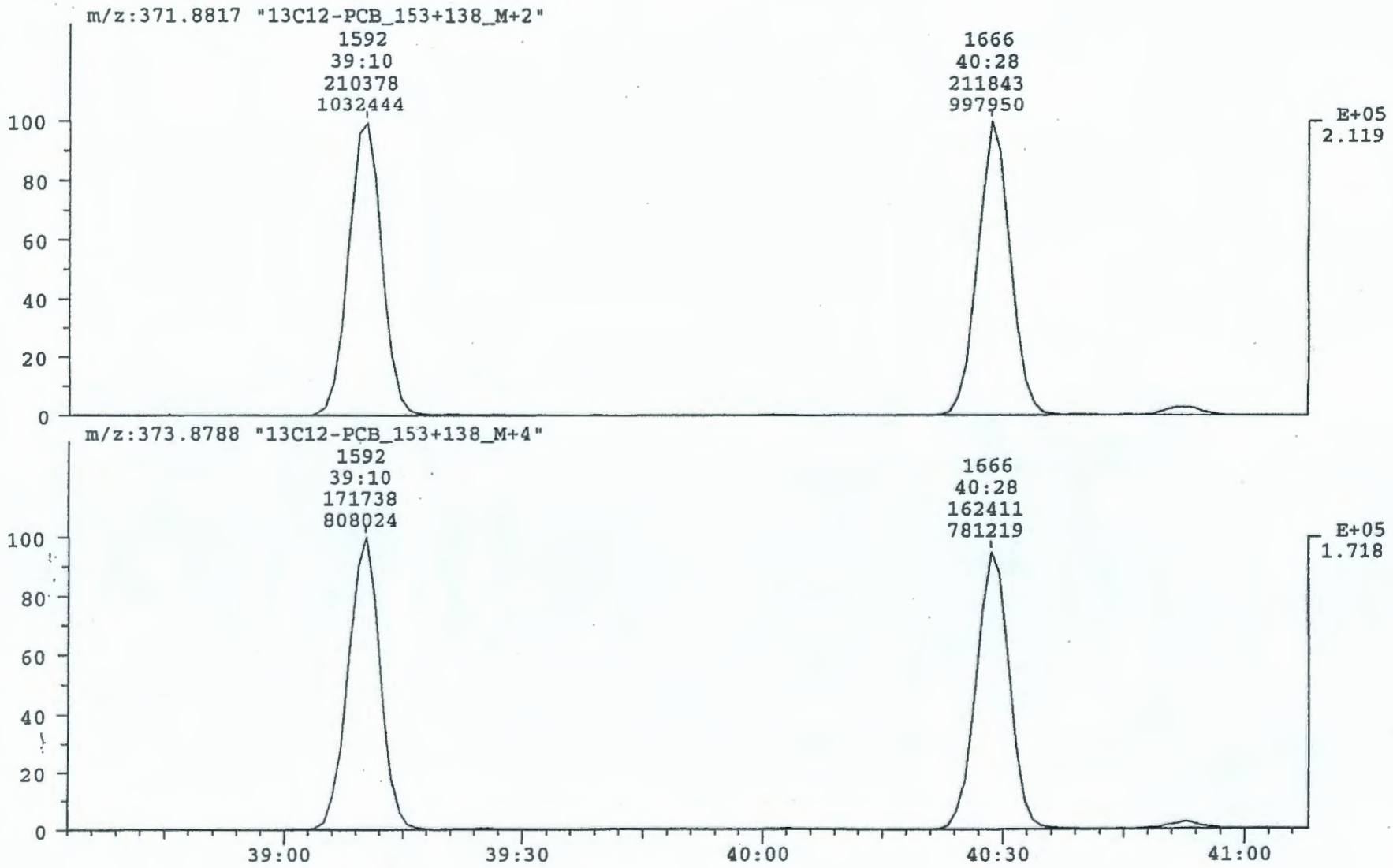
```
CHRO:  a07030751                                07-Mar-07   Elapse:  39:58      1638
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1159 > 2122           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



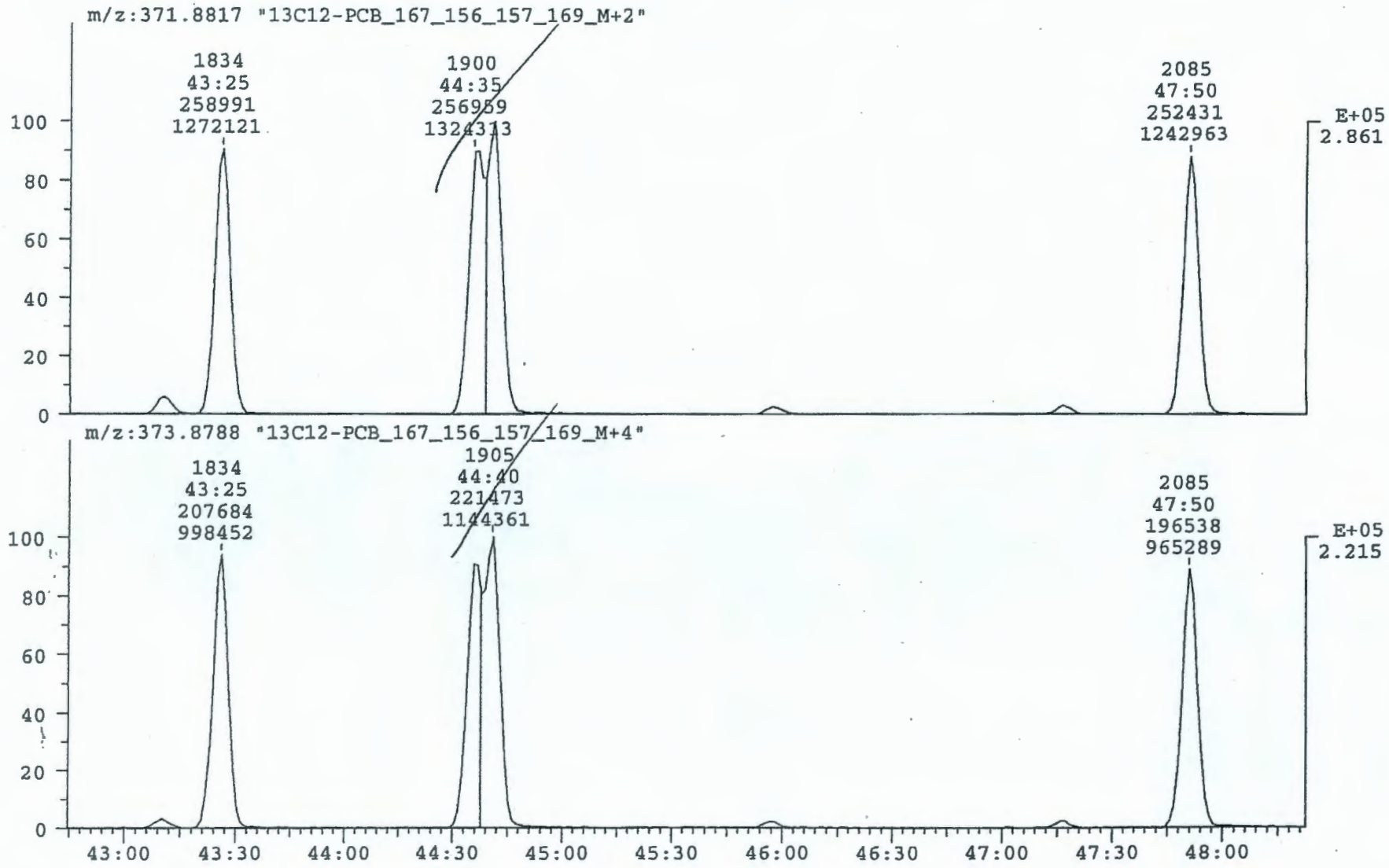
```
CHRO:  a07030751                                07-Mar-07  Elapse:  32:02      1191
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run1
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   1166 > 1216          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



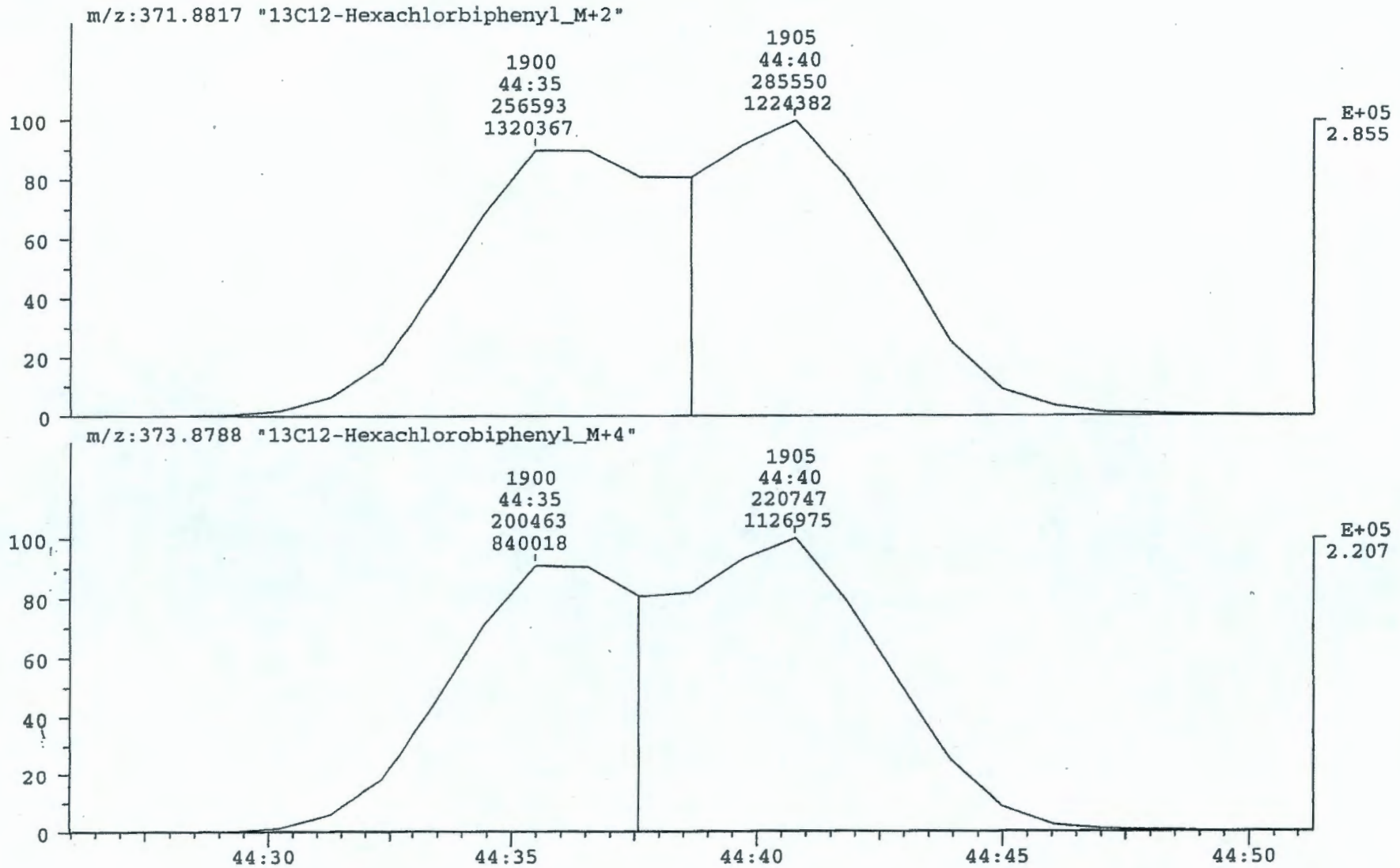
```
CHRO:  a07030751                                07-Mar-07   Elapse:  39:50      1630
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   1557 > 1704            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



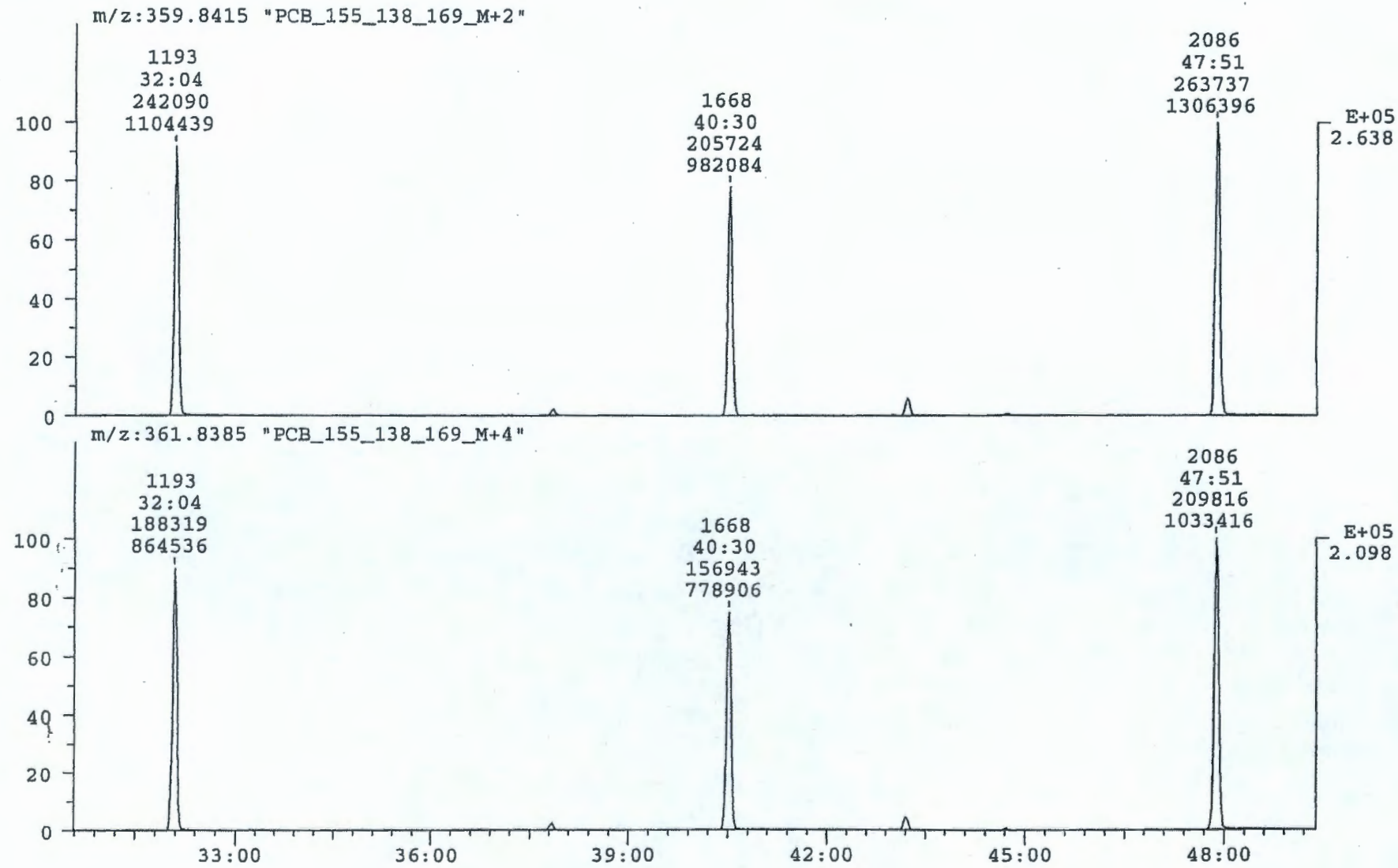
```
CHRO:  a07030751                                07-Mar-07   Elapse:  45:38      1960
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1795 > 2115           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



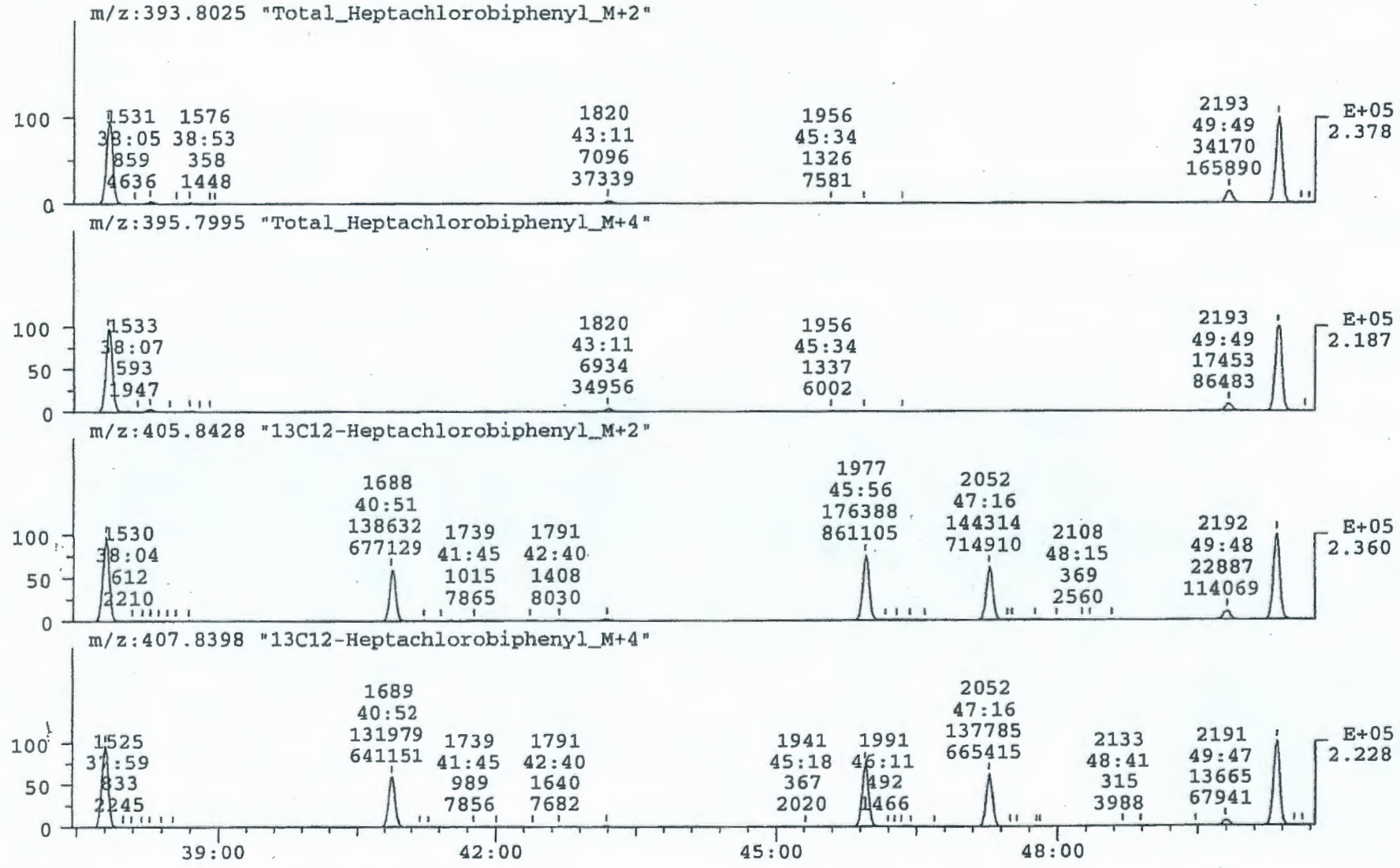
```
CHRO:  a07030751                                07-Mar-07   Elapse:  56:11      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1891 > 1915           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



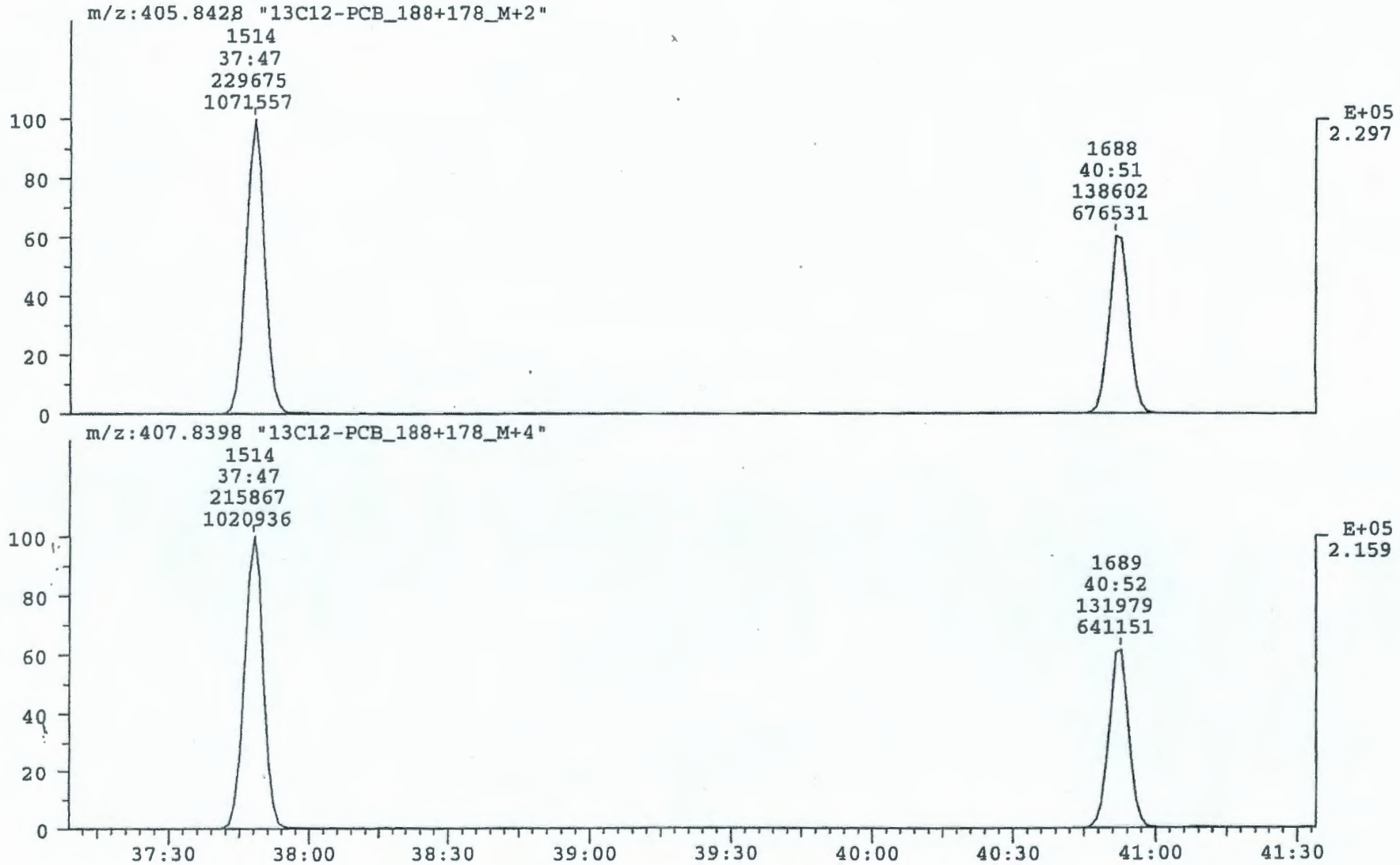
```
CHRO:  a07030751                                07-Mar-07   Elapse:  39:58      1638
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1108 > 2168           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



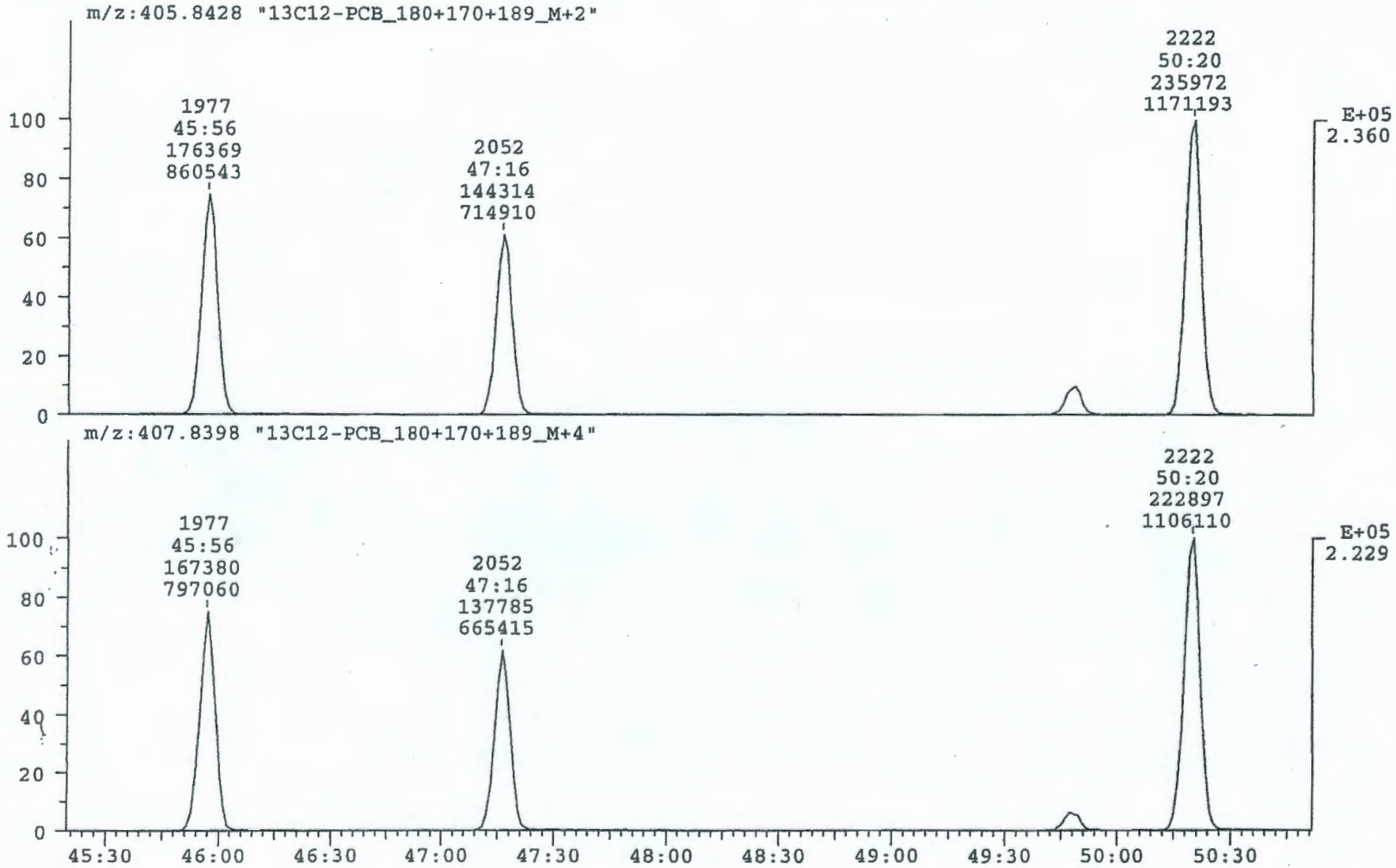
CHRO: a07030751 07-Mar-07 Elapse: 44:05 1872
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1494 > 2246 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



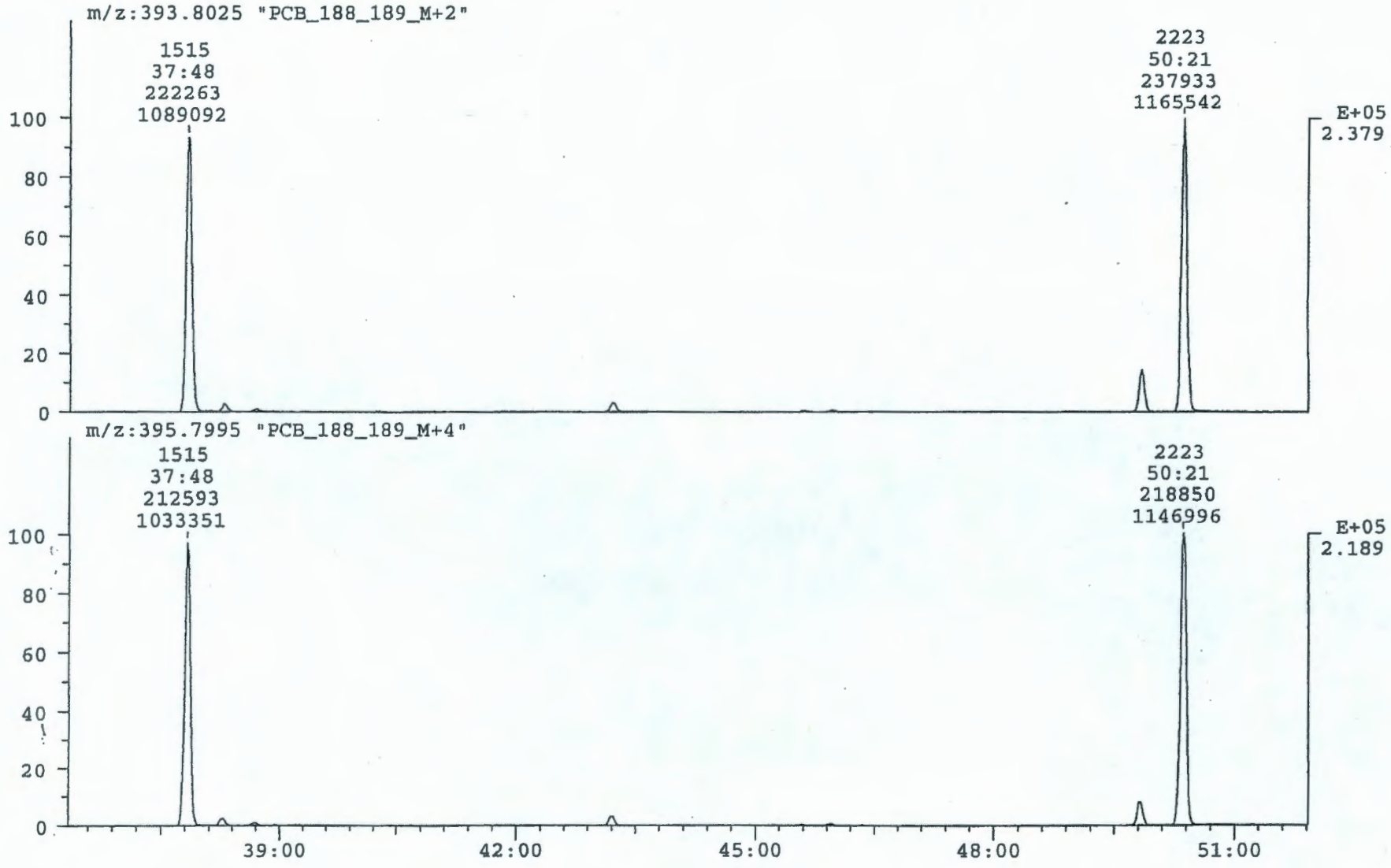
CHRO: a07030751 07-Mar-07 Elapse: 39:20 1602
Samp: Vial 7 WO=2990:75Mix5 Meth=TE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1477 > 1728 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



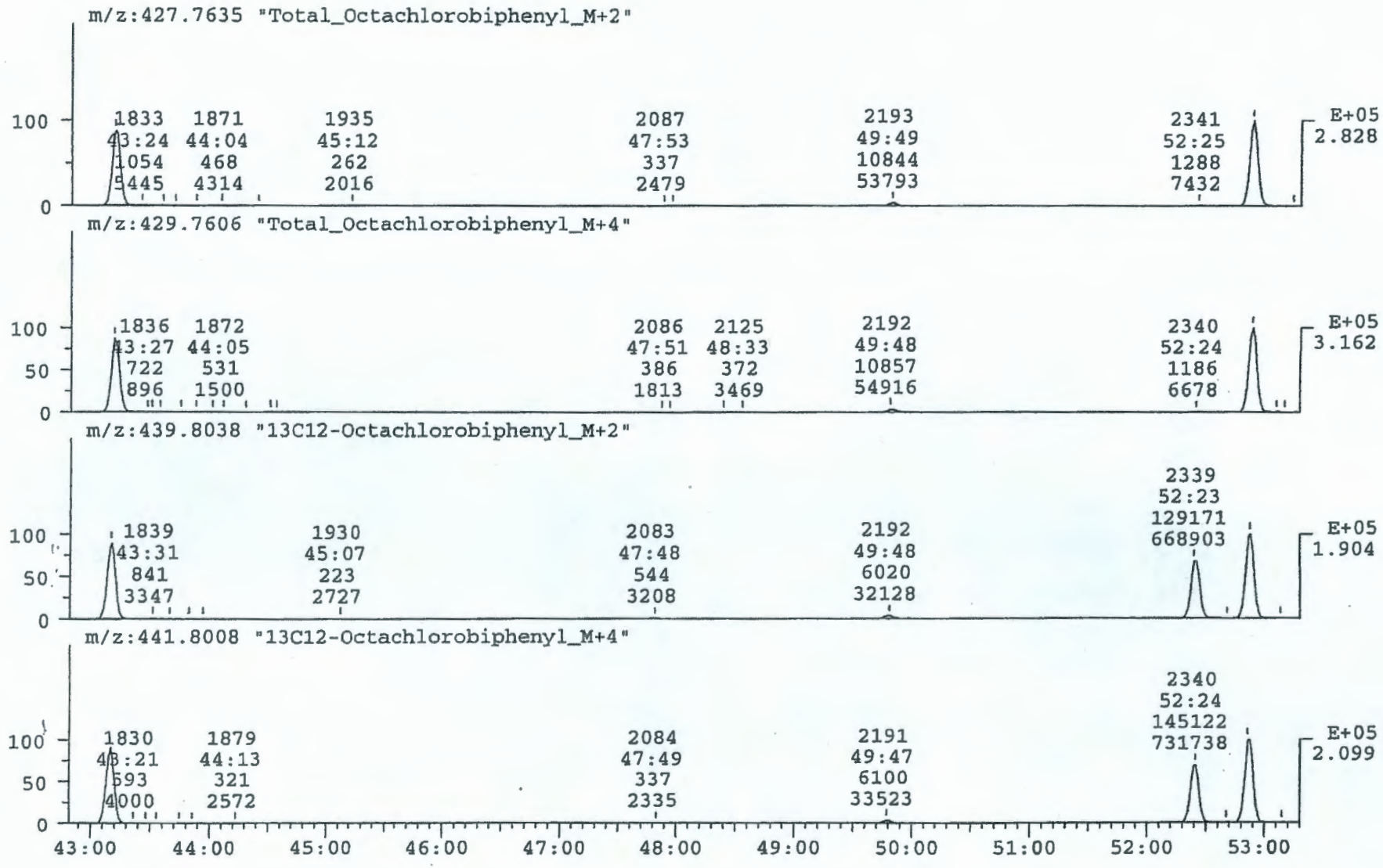
```
CHRO:  a07030751                                07-Mar-07   Elapse:  48:08      2102
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1942 > 2252           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



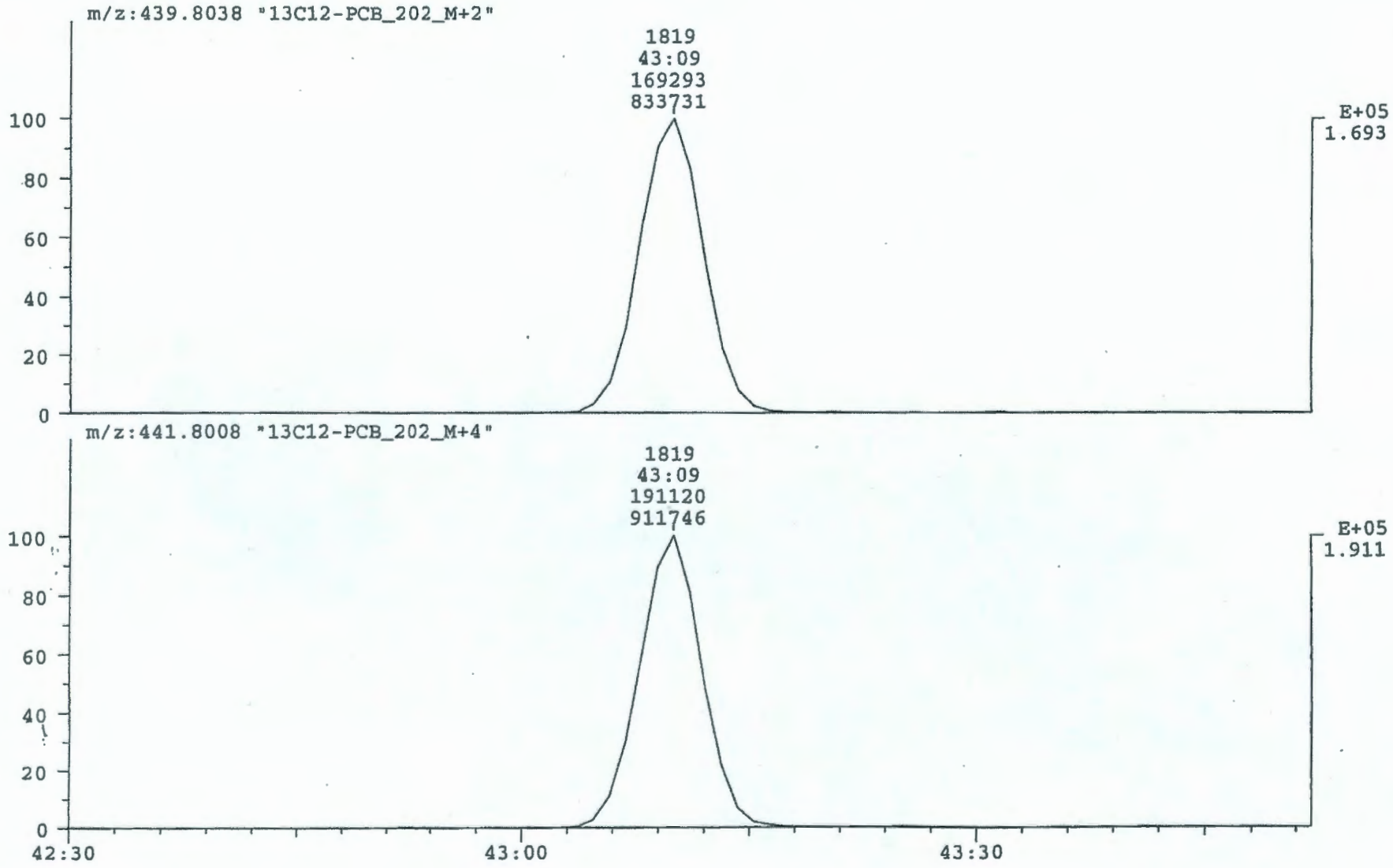
```
CHRO:  a07030751                                07-Mar-07   Elapse:  44:05      1872
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1432 > 2312           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



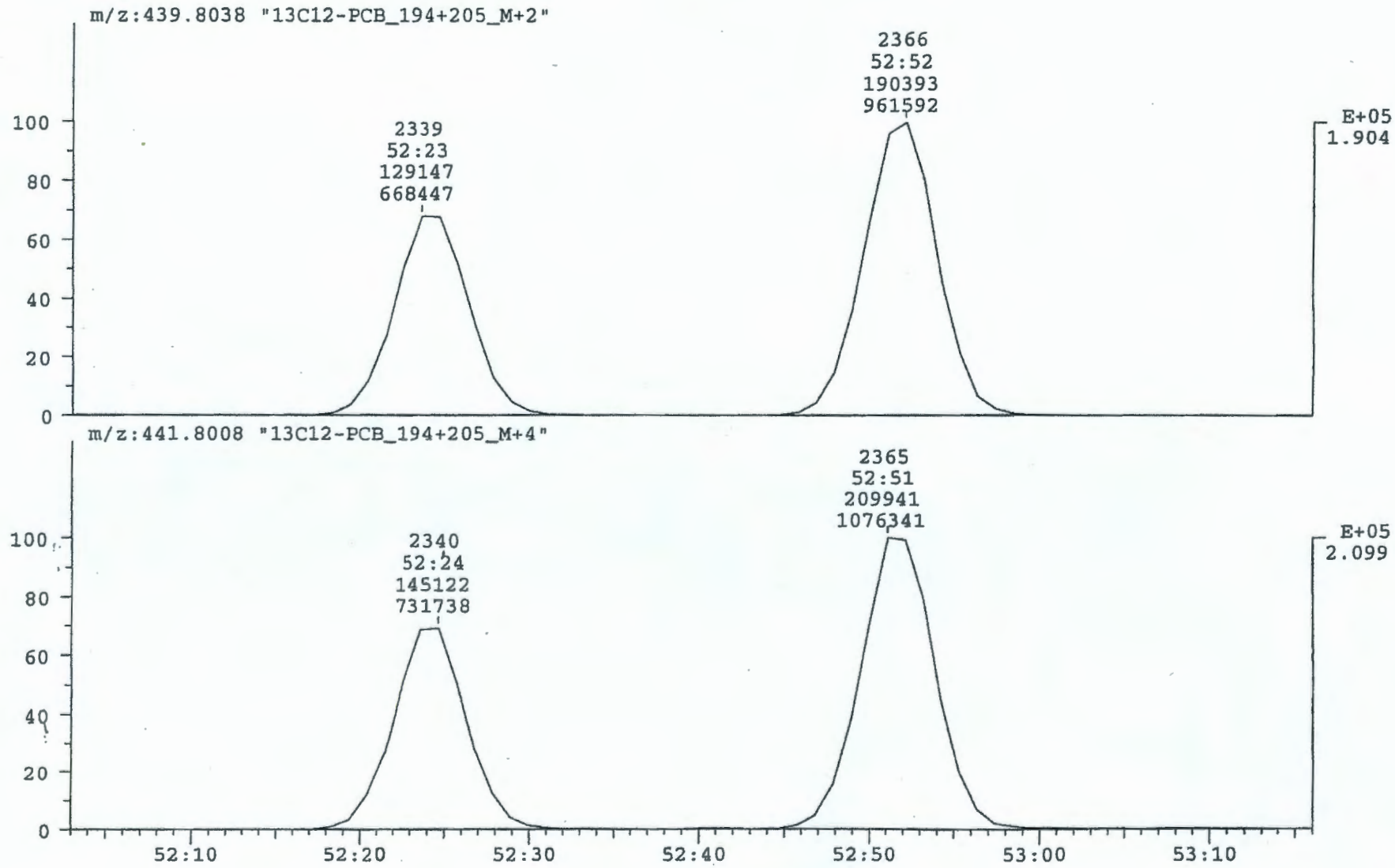
CHRO: a07030751 07-Mar-07 Elapse: 48:02 2096
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/3S055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1799 > 2391 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



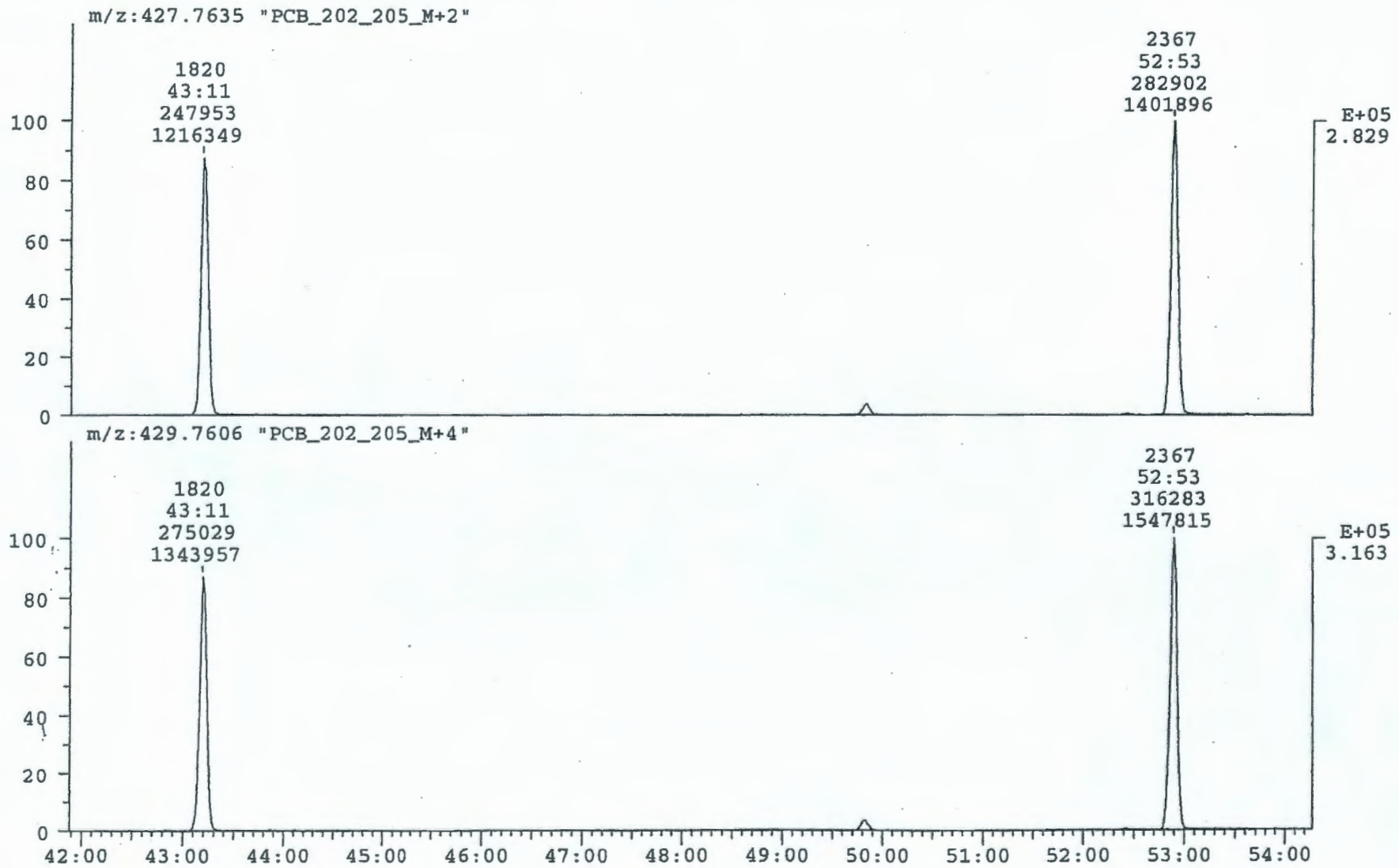
```
CHRO:  a07030751                                07-Mar-07  Elapse:  43:07      1817
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  21:10:24   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1781 > 1859         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



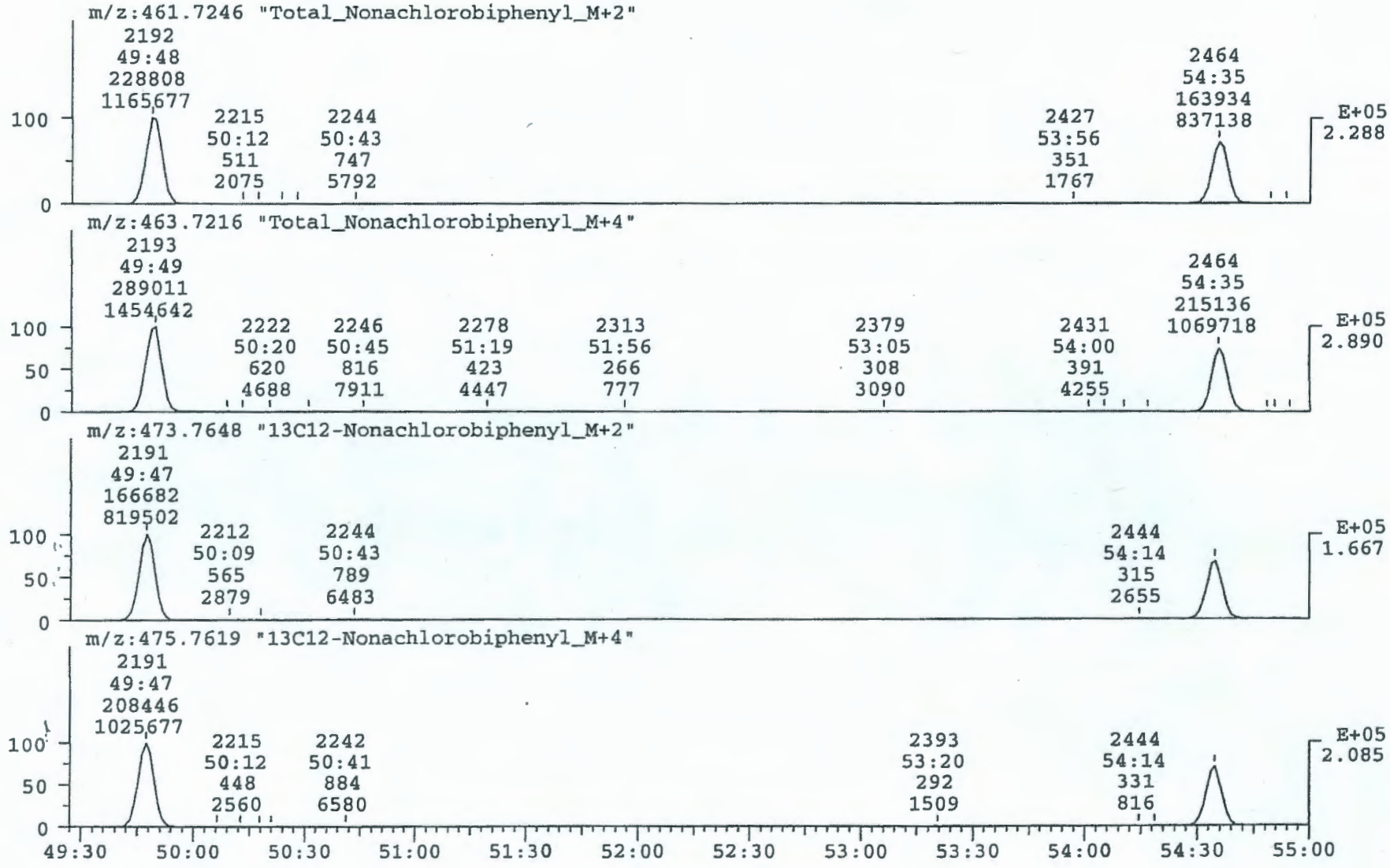
```
CHRO:  a07030751                                07-Mar-07   Elapse:  52:39      2354
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2320 > 2389           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



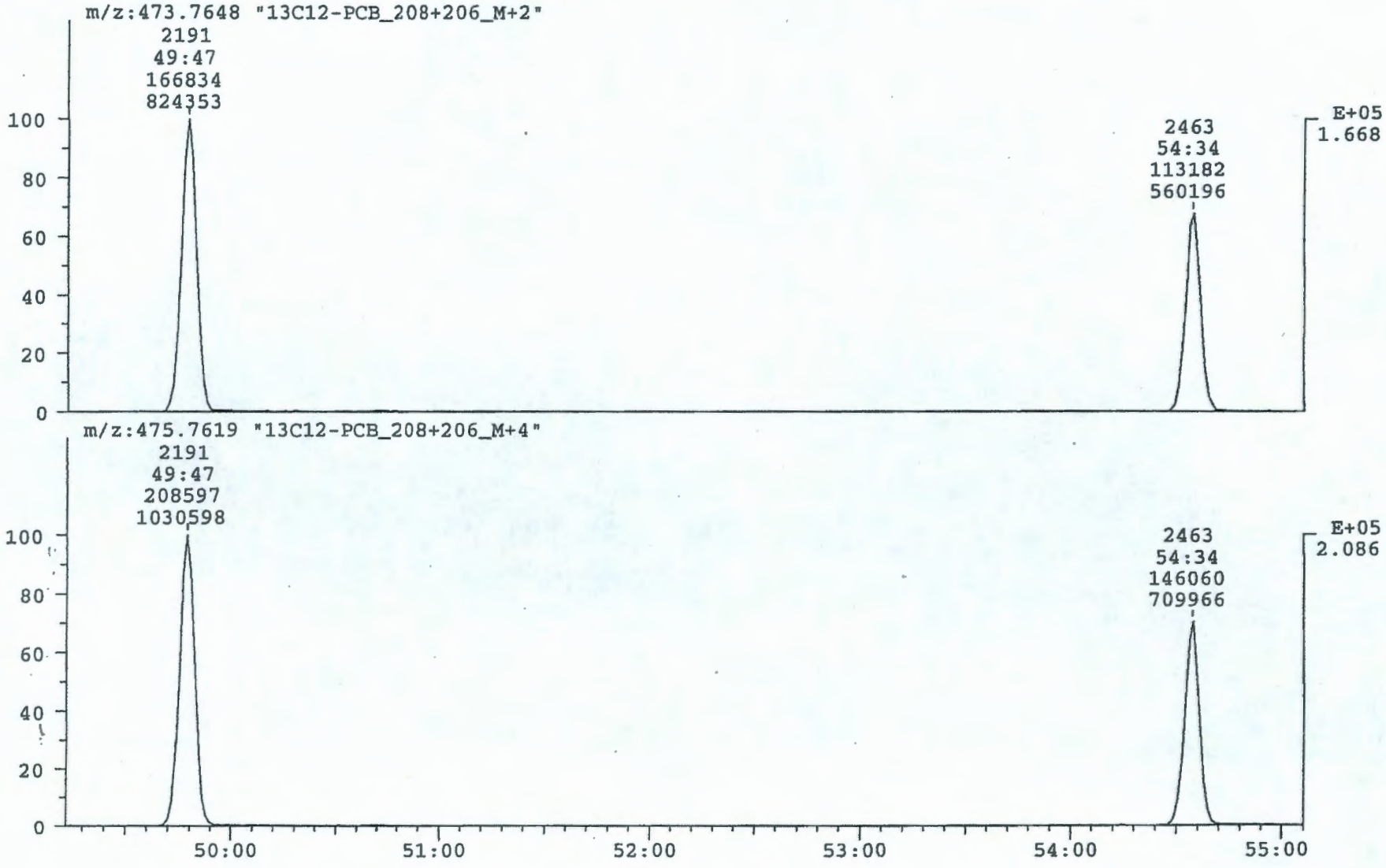
```
CHRO:  a07030751                                07-Mar-07   Elapse:  48:02      2096
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   1746 > 2446            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



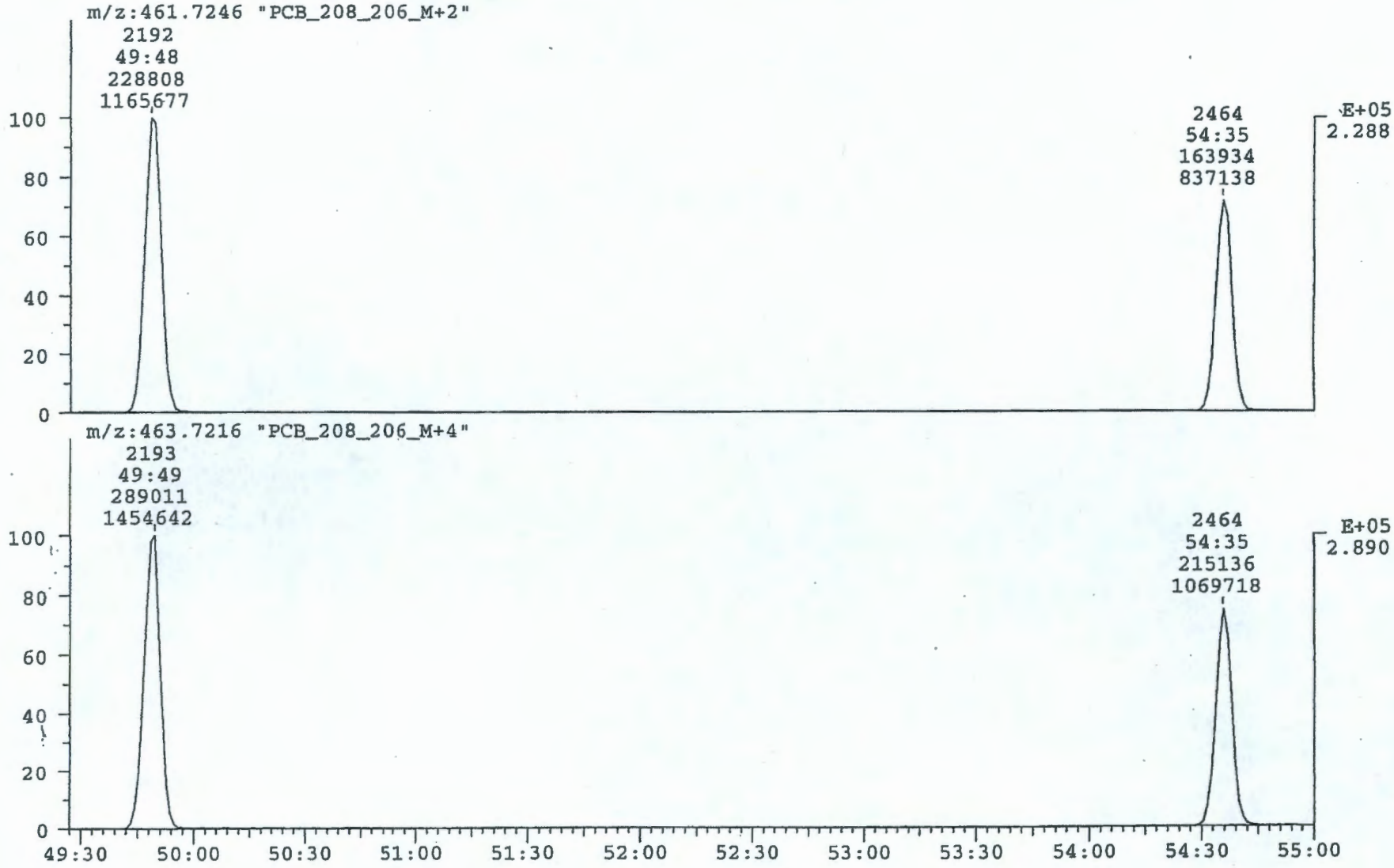
CHRO: a07030751 07-Mar-07 Elapse: 52:13 2329
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 2172 > 2487 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030751                                07-Mar-07   Elapse:  52:11      2328
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   2163 > 2493           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030751                                07-Mar-07  Elapse:  52:13      2329
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  21:10:24   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run1
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   2172 > 2487          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030751                                07-Mar-07   Elapse:  56:11      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   2515 > 2595            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
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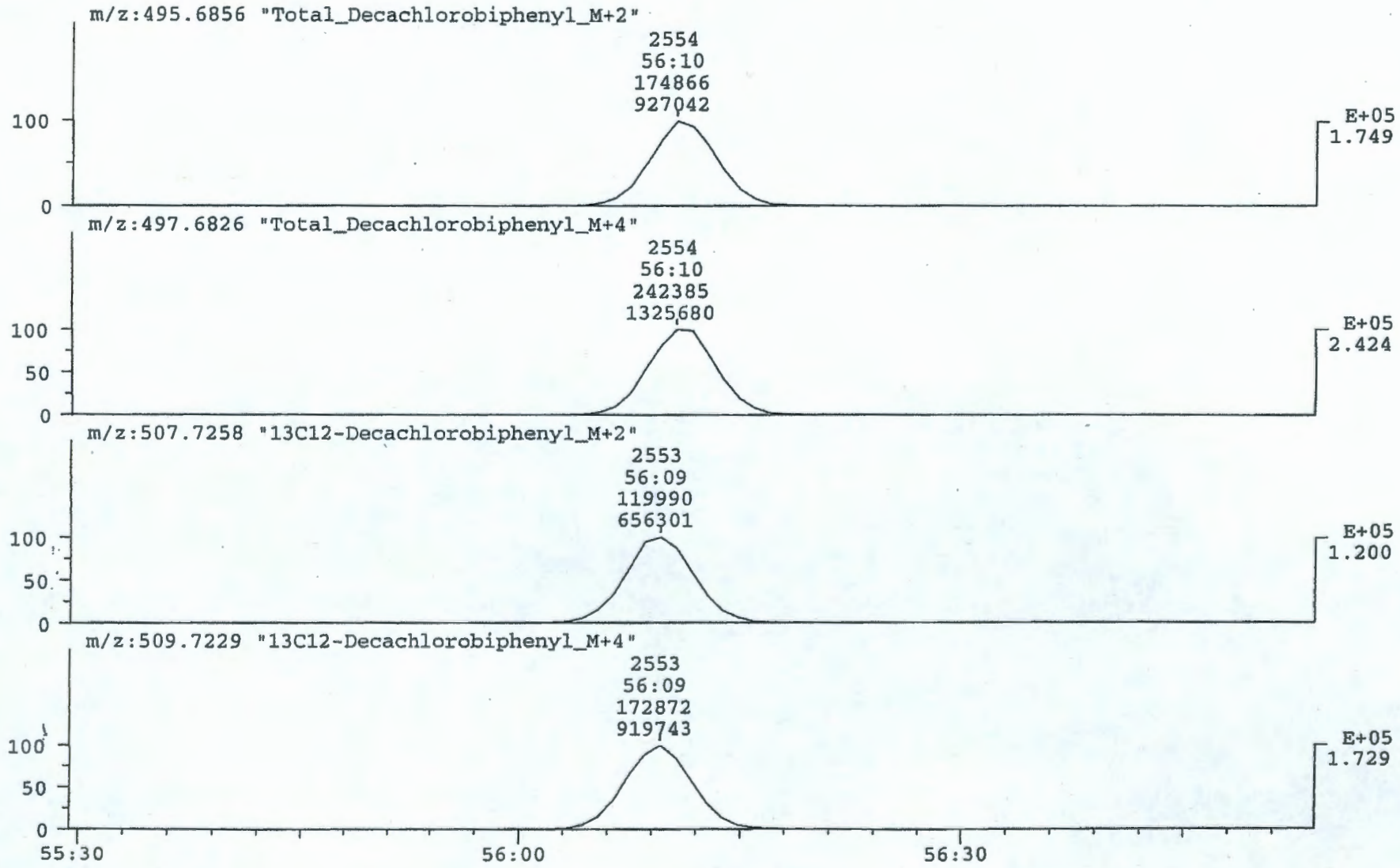


Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a07030751
Study: 1668 RT Mix5/Run1
Sample: WO=2990:75Mix5 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 7
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 5 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:01 min	14:03 min	36:04 min	1.00 sec
# 3	36:05 min	13:10 min	49:15 min	1.00 sec
# 4	49:16 min	7:44 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	1	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	1	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	1	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	1	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668n

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
- Purge time 1.5 min
- Purge flow 40.0 ml/min
- Gas saver is on
- Saver time 3.0 min
- Saver flow 15.0 ml/min

Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	258.0000
FVINLET	256.0000	FVSRC	856.0000	FWIN	0.7000
GCTC	203.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.5294	HVANAL	1304.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4771.6680	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2607.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.8100	TCURR	0.7813
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 07-Mar-07 21:10:24.1

Autosampler has injected sample from vial 7
MID Time Window 1: Resolution is 7541
MID Time Window 2: Resolution is 7472
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 8803
Analysis stopped at: 07-Mar-07 22:07:27.4 (run time 57.04 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030752.	Prep Date		SDG No	
Analysis ID	96252	Prep Exp Date		Date Received	
Analysis Date	03/08/07 02:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	185	153	74	61	1.21 *	/	
	PCB 1 (BZ)	12:13	00:00	0	1213607	383256	473771	154476	3.17	AVV/AVV	
	PCB 3 (BZ)	14:26	00:00	0	1228754	394865	412248	135283	3.11	AVV/ABV	
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	230	330	92	132	0.70 *	/	
	13C12-PCB 1	12:13	00:00	0	2260087	696872	896279	270206	3.24	AVV/AVV	
	13C12-PCB 3	14:25	00:00	0	2289834	714028	732363	236290	3.21	AVV/AVV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	220	473	88	189	0.47 *	/	
	PCB 4 (BZ)	14:44	00:00	0	529136	345498	170724	110817	1.53	AVV/AVV	
	PCB 15 (BZ)	20:42	00:00	0	948281	605246	251547	156724	1.57	AVV/ABV	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	343	210	137	84	1.63	/	
	13C12-PCB 4	14:43	00:00	0	975070	618846	333872	206712	1.58	ABV/ABV	
	13C12-PCB 9	16:40	00:00	0	1593741	990534	480204	293819	1.61	AVV/ABV	
	13C12-PCB 8	17:33	00:00	0	1730855	1070393	476858	296869	1.62	AVV/AVV	
	13C12-PCB 15	20:41	00:00	0	1715381	1066148	450666	283799	1.61	AVV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	150	133	60	53	1.13	/	
	PCB 19 (BZ)	17:56	00:00	0	349318	320876	97931	86417	1.09	ABV/ABV	
	PCB 16 (BZ)	20:41	00:00	0	309404	296293	78718	75306	1.04	ABV/ABV	
	PCB 37 (BZ)	27:48	00:00	0	787772	767975	176642	175981	1.03	ABV/ABV	
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	598	278	239	111	2.15 *	/	
	13C12-PCB 19	17:54	00:00	0	582165	555505	154725	147946	1.05	AVV/AVV	
	13C12-PCB 32	21:10	00:00	0	1063099	966185	261566	243516	1.10	AVV/AVV	
	13C12-PCB 31	23:25	00:00	0	1602028	1504631	382718	354505	1.06	ABV/ABV	
	13C12-PCB 28	23:42	00:00	0	1513386	1433383	366128	346509	1.06	AVB/AVV	
	13C12-PCB 37	27:47	00:00	0	1465351	1370451	331471	306496	1.07	AVV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	158	168	63	67	0.94 *	/	
	PCB 54 (BZ)	21:03	00:00	0	622887	788659	153080	195105	0.79	ABV/ABV	
	PCB 43 (BZ)	25:48	00:00	0	689177	878658	153642	199429	0.78	ABV/ABV	
	PCB 44 (BZ)	26:37	00:00	0	746489	938962	164020	203316	0.80	ABV/AVV	M
	PCB 74 (BZ)	30:24	00:00	0	1194275	1521195	261494	325369	0.79	ABV/AVV	M
	PCB 56 (BZ)	31:24	00:00	0	1114000	1420704	237935	299459	0.78	AVV/AVV	D
	PCB 77 (BZ)	35:07	00:00	0	1133200	1443506	236146	307333	0.79	ABV/ABV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	150	140	60	56	1.07 *	/	
	13C12-PCB 54	21:02	00:00	0	530343	645621	138845	162717	0.82	AVV/ABV	
	13C12-PCB 52	25:33	00:00	0	760812	943232	181779	221561	0.81	ABV/ABV	
	13C12-PCB 79	33:28	00:00	0	1103948	1386299	238477	293456	0.80	ABV/ABV	
	13C12-PCB 81	34:30	00:00	0	996581	1286199	206085	272918	0.77	ABV/ABV	D

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cemox limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030752.	Prep Date		SDG No	
Analysis ID	96252	Prep Exp Date		Data Received	
Analysis Date	03/08/07 02:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	13C12-PCB 77	35:06	00:00	0	1050443	1312553	220133	278933	0.80	ABV/ABB	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	168	143	67	57	1.18 *	/	
	PCB 104 (BZ)	26:31	00:00	0	1297734	799993	295827	186938	1.62	ABV/ABV	
	PCB 98 (BZ)	29:55	00:00	0	845136	522805	183545	117081	1.62	AVV/ABV	D
	PCB 125 (BZ)	33:36	00:00	0	1248537	781232	263667	162212	1.60	ABV/ABV	D
	PCB 110 (BZ)	34:26	00:00	0	1311946	815888	278278	171538	1.61	ABV/AVV	D
	PCB 126 (BZ)	41:40	00:00	0	1499286	947756	312918	192685	1.58	ABV/ABV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	175	145	70	58	1.21 *	/	
	13C12-PCB 104	26:29	00:00	0	1186078	745917	272989	172016	1.59	ABV/ABV	D
	13C12-PCB 95	29:30	00:00	0	881551	542639	193406	119198	1.62	ABV/ABV	D
	13C12-PCB 101	32:22	00:00	0	905081	554715	192272	120699	1.63	ABV/ABV	
	13C12-PCB 111	35:00	00:00	0	1144194	726661	247576	154419	1.57	ABV/ABV	
	13C12-PCB 123	37:01	00:00	0	1412009	891799	293255	181588	1.58	ABV/ABV	D
	13C12-PCB 118	37:21	00:00	0	1502985	932888	316768	195664	1.61	AVV/AVV	D
	13C12-PCB 114	37:53	00:00	0	1450459	914989	285333	187012	1.59	AVV/AVV	D
	13C12-PCB 105	38:36	00:00	0	1408969	876627	287723	178086	1.61	ABV/AVV	D
	13C12-PCB 127	39:58	00:00	0	1508981	943715	314265	198357	1.60	ABV/AVV	
	13C12-PCB 126	41:38	00:00	0	1525063	971519	310903	197262	1.57	AVV/ABV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	145	138	58	55	1.05	/	
	PCB 155 (BZ)	32:04	00:00	0	1084959	842641	232465	180066	1.29	ABV/ABV	
	PCB 138 (BZ)	40:30	00:00	0	946903	747050	188098	150559	1.27	ABV/ABV	
	PCB 169 (BZ)	47:51	00:00	0	1304062	1021143	264765	210209	1.28	AVV/AVV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	155	153	62	61	1.02 *	/	
	13C12-PCB 155	32:02	00:00	0	1001326	784395	225367	171764	1.28	ABV/ABV	D
	13C12-PCB 153	39:08	00:00	0	1002441	775806	202894	158414	1.29	ABV/ABV	D
	13C12-PCB 138	40:28	00:00	0	970603	750456	203088	160725	1.29	ABV/ABV	
	13C12-PCB 167	43:25	00:00	0	1238164	987459	252718	194290	1.25	AVV/AVV	
	13C12-PCB 156	44:35	00:00	0	1088495	870414	253615	201541	1.25	ABV/ABV	D
	13C12-PCB 157	44:39	00:00	0	1355663	1049836	268779	206970	1.29	AVB/AVB	M
	13C12-PCB 169	47:50	00:00	0	1206068	947781	250524	192269	1.27	ABV/AVV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	133	125	53	50	1.06	/	
	PCB 188 (BZ)	37:48	00:00	0	1042362	997696	221639	203443	1.04	ABV/ABV	
	PCB 189 (BZ)	50:20	00:00	0	1137747	1115273	222685	216105	1.02	AVV/AVV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	175	138	70	55	1.27 *	/	
	13C12-PCB 188	37:47	00:00	0	1053462	972218	222750	199005	1.08	ABV/ABV	D
	13C12-PCB 178	40:51	00:00	0	644321	610838	132403	127056	1.05	ABV/ABV	
	13C12-PCB 180	45:56	00:00	0	840800	795073	174219	160832	1.06	ABV/ABV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cemax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030752.	Prep Date		SDG No	
Analysis ID	96252	Prep Exp Date		Date Received	
Analysis Date	03/08/07 02:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

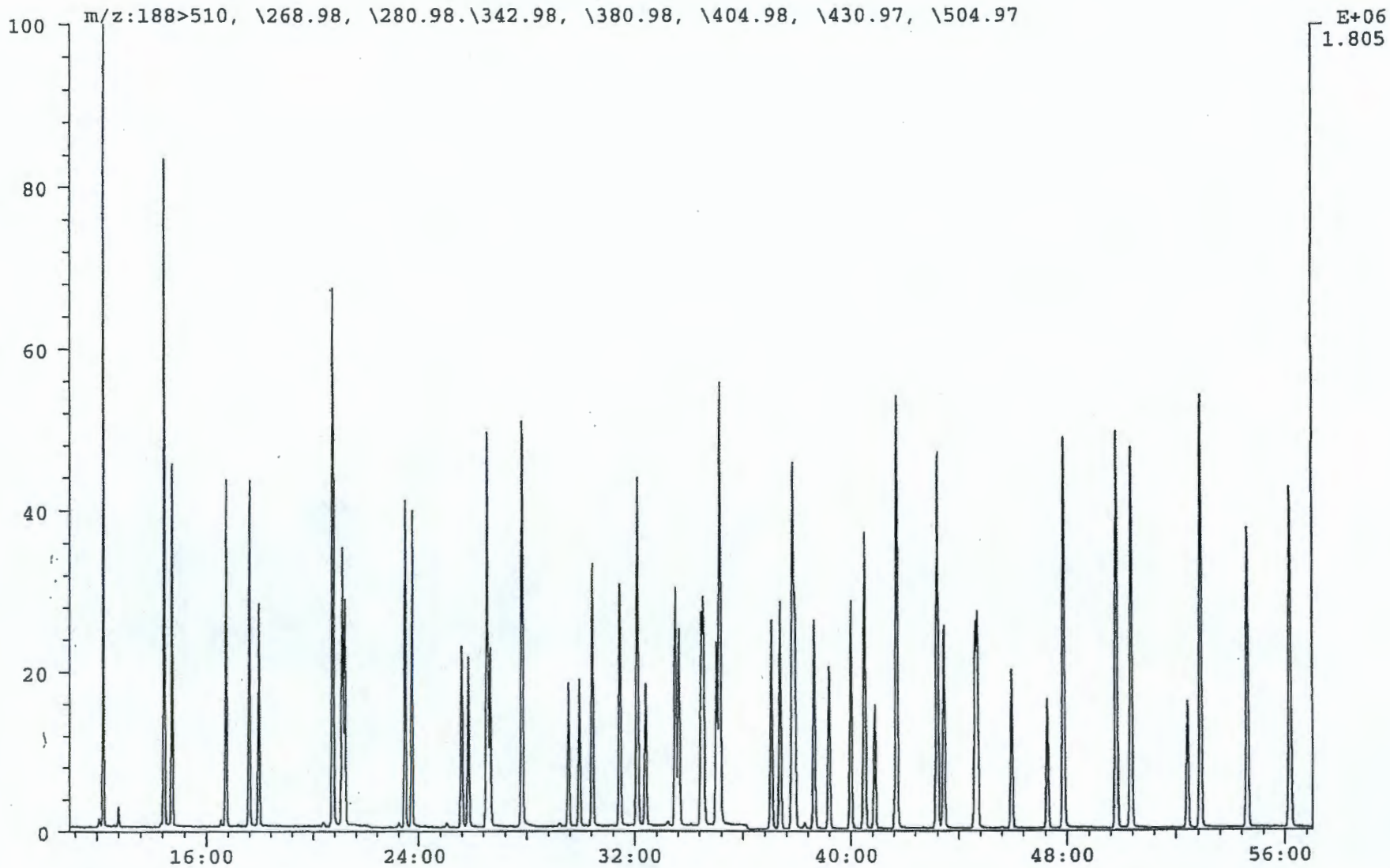
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	13C12-PCB 170	47:15	00:00	0	700148	659358	140591	130270	1.06	AVV/AVV	
	13C12-PCB 189	50:18	00:00	0	1131935	1089960	228609	216457	1.04	ABV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	138	145	55	58	0.95	/	
	PCB 202 (BZ)	43:10	00:00	0	1177808	1296922	239750	268738	0.91	ABV/ABV	
	PCB 205 (BZ)	52:52	00:00	0	1359252	1530215	268296	300931	0.89	ABV/ABV	
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	138	123	55	49	1.12 *	/	
	13C12-PCB 202	43:09	00:00	0	811505	880051	164566	180666	0.92	ABV/ABV	D
	13C12-PCB 194	52:23	00:00	0	654763	711284	129807	140769	0.92	ABB/ABV	
	13C12-PCB 205	52:50	00:00	0	941336	1046193	188109	206285	0.90	ABV/ABV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	150	170	60	68	0.88	/	
	PCB 208 (BZ)	49:48	00:00	0	1122579	1451548	226867	293629	0.77	ABV/ABV	
	PCB 206 (BZ)	54:35	00:00	0	797841	1033715	155538	203794	0.77	ABV/AVV	
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	145	155	58	62	0.94 *	/	
	13C12-PCB 208	49:47	00:00	0	795409	995657	157559	192731	0.80	AVV/AVV	
	13C12-PCB 206	54:34	00:00	0	538799	681991	104732	135198	0.79	AVV/ABV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	130	240	52	96	0.54 *	/	
	PCB 209 (BZ)	56:10	00:00	0	886929	1286804	166556	236808	0.69	ABV/ABV	
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	168	140	67	56	1.20 *	/	
	13C12-PCB 209	56:08	00:00	0	636344	890851	117611	159379	0.71	ABV/ABV	

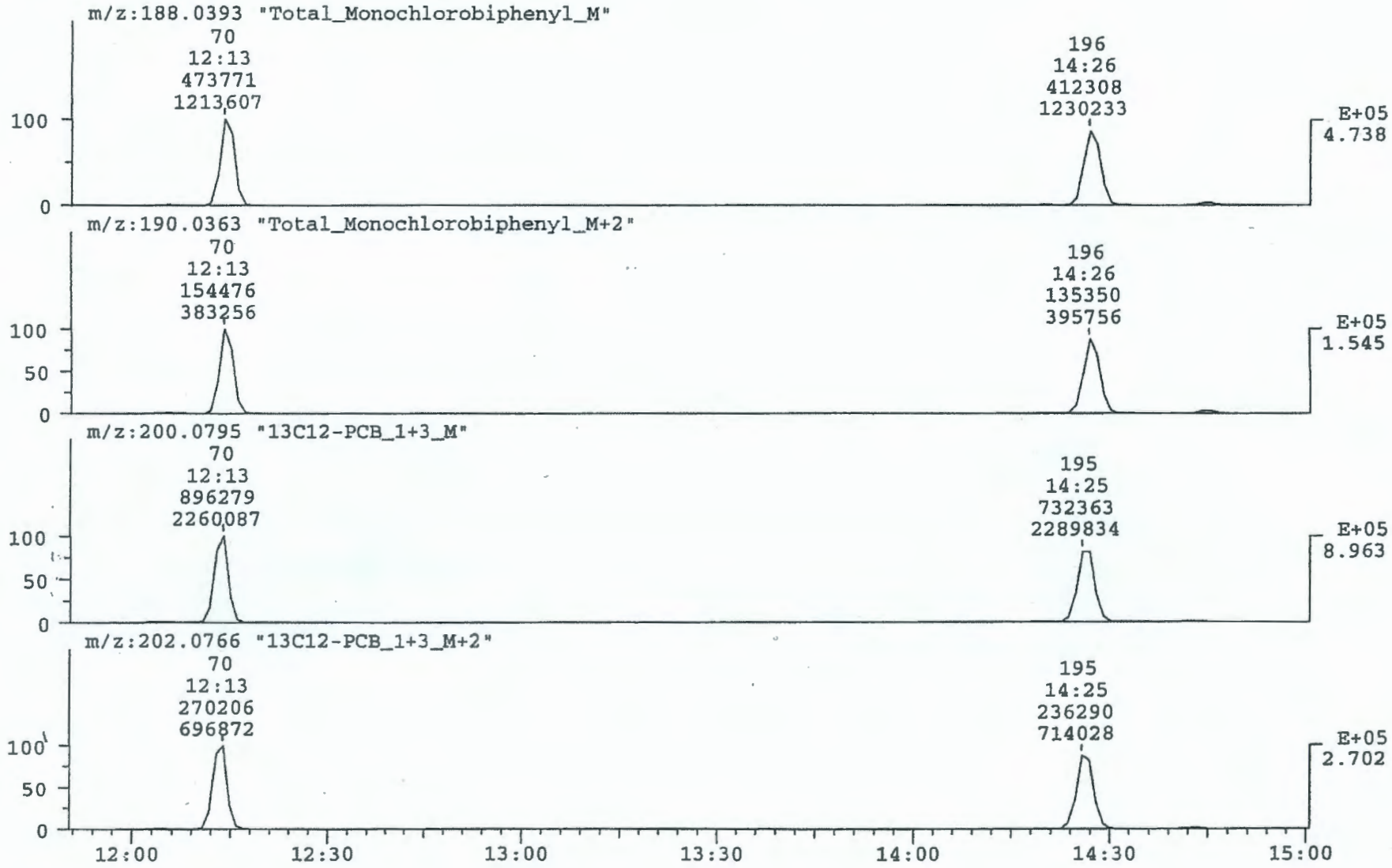
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cemax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: a07030752 08-Mar-07 Elapse: 56:11 2555
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 2 > 2602 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

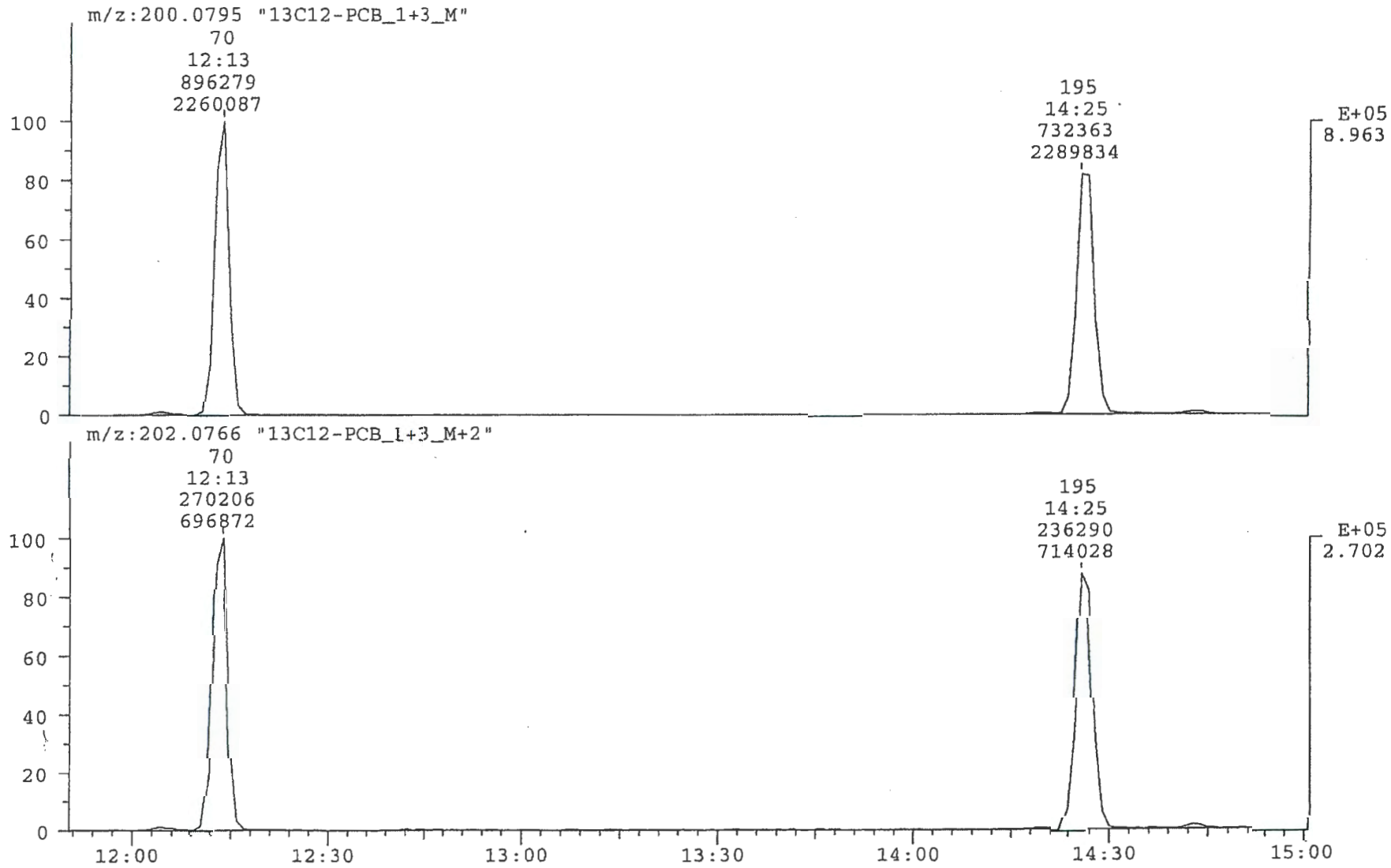
Int DCG 3-19-07
Calc DCG 3-19-07
QC BAW 3/19/07



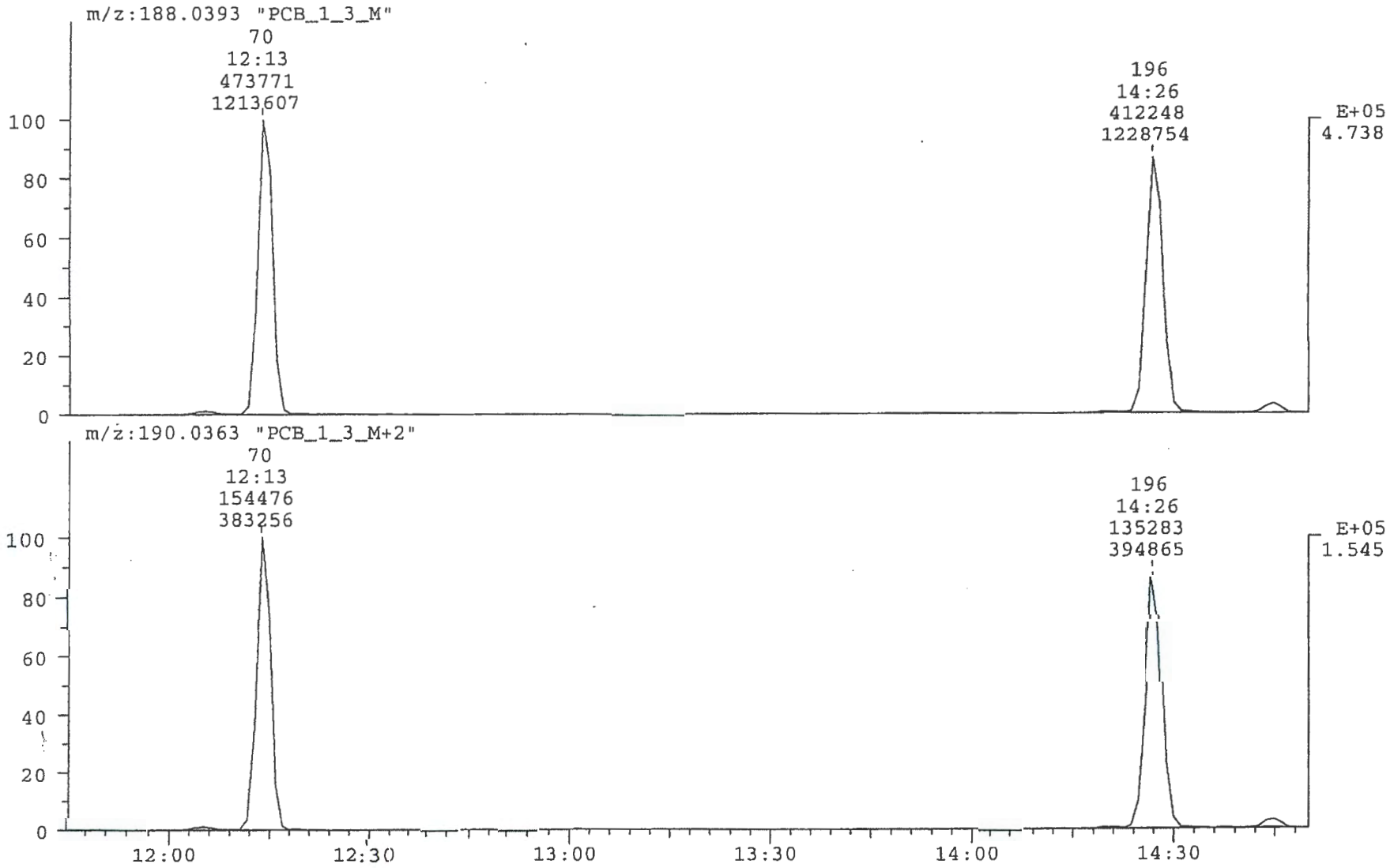
```
CHRO:  a07030752                                08-Mar-07   Elapse:  56:11      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



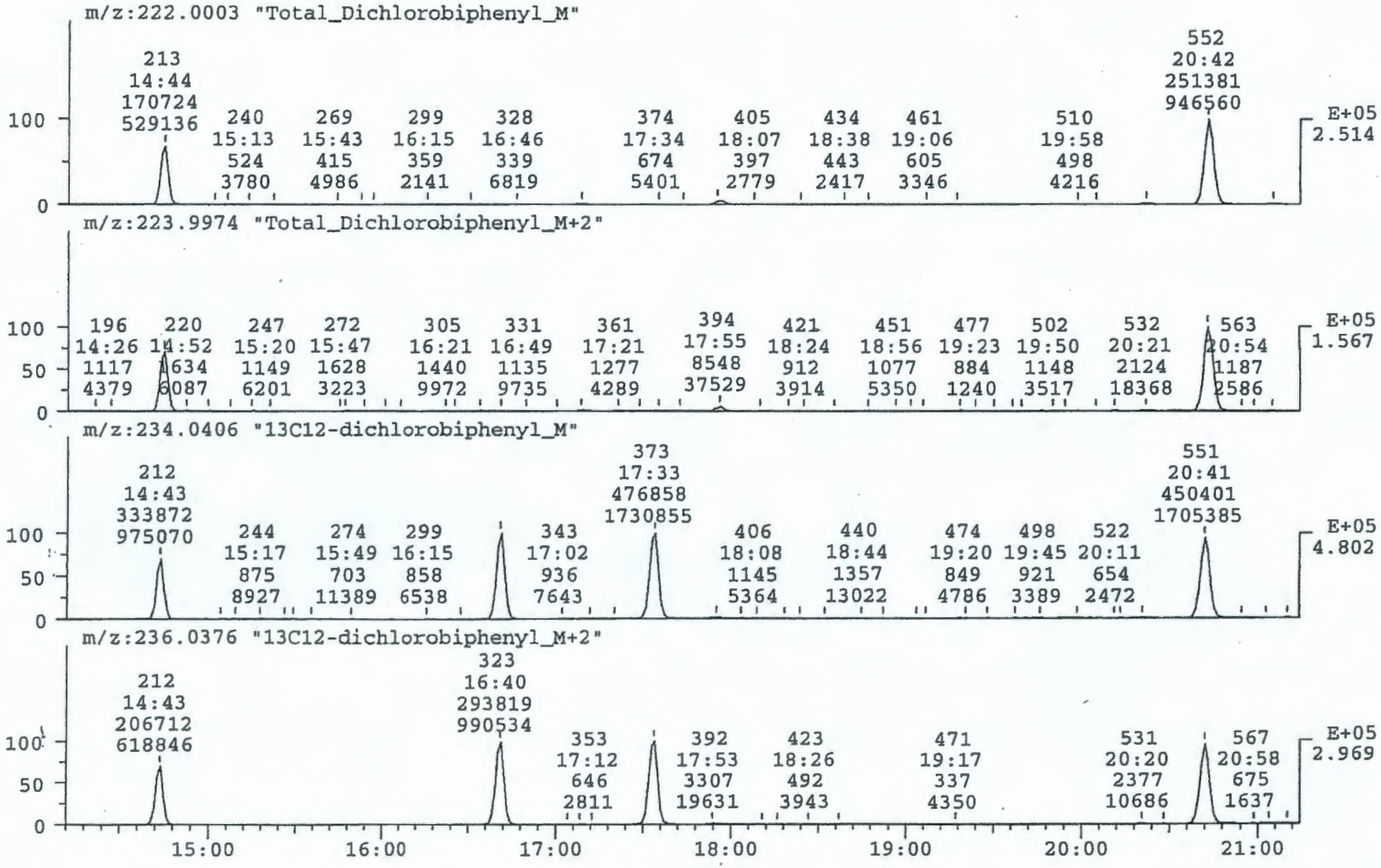
```
CHRO:  a07030752                                08-Mar-07   Elapse:  13:25.5      138
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



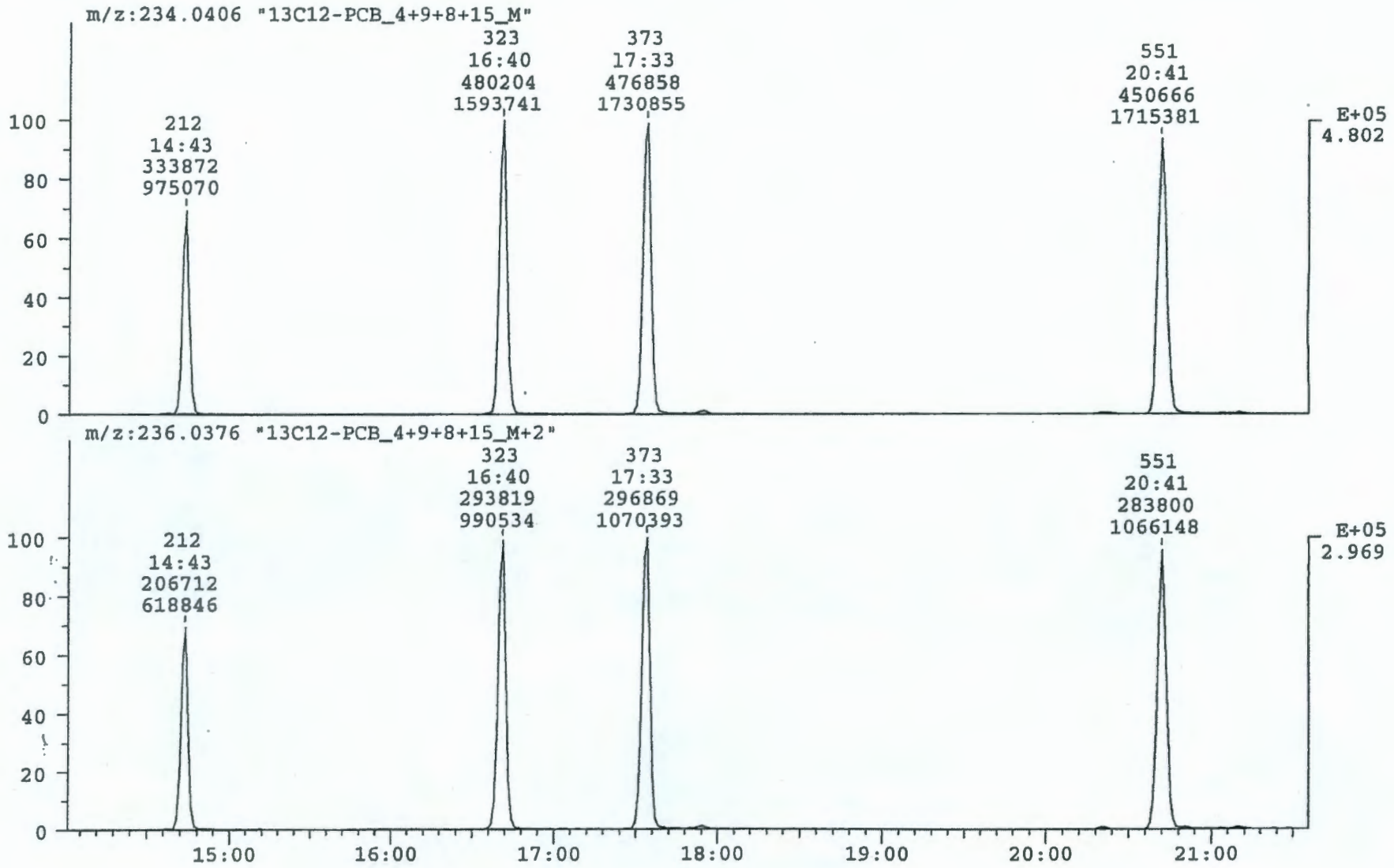
```
CHRO:  a07030752                                08-Mar-07   Elapse:  13:25.5      138
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   43 > 218              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



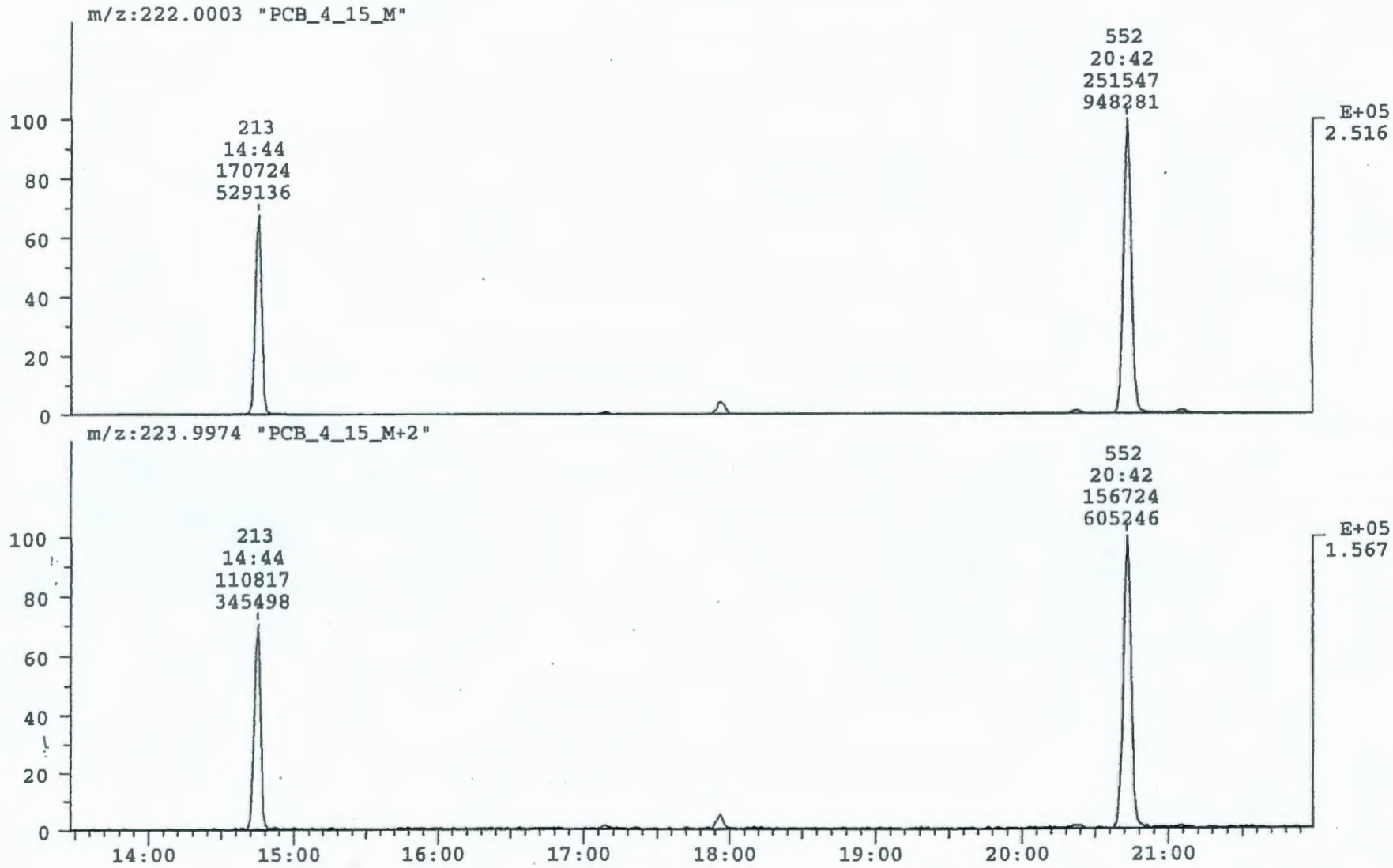
```
CHRO:  a07030752                                08-Mar-07   Elapse:  17:43.2     382
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   182 > 582             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030752                                08-Mar-07   Elapse:  17:43.2      382
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   172 > 602             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

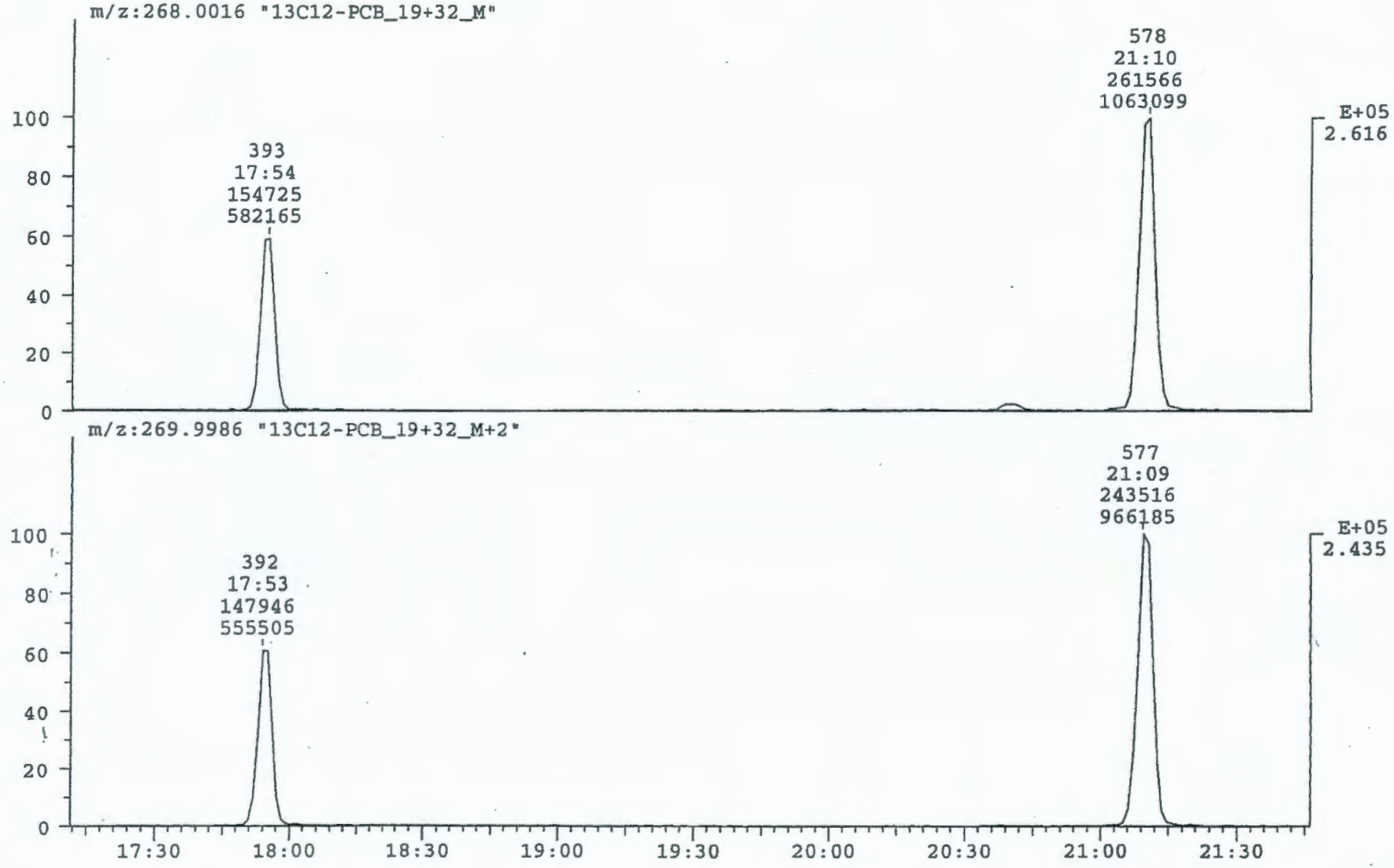


```
CHRO:  a07030752                                08-Mar-07   Elapse:  17:43.2      382
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   140 > 624             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

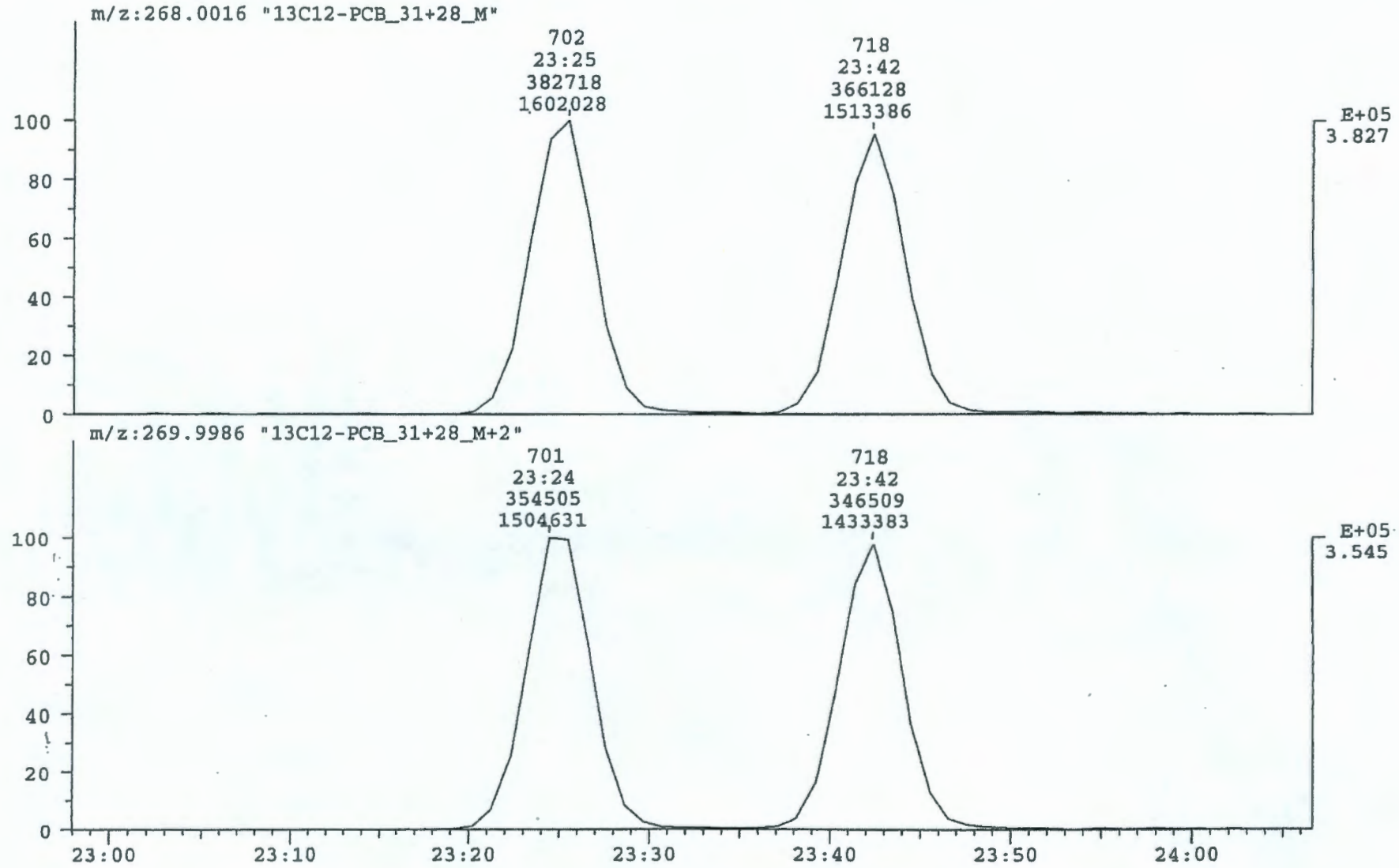


```
CHRO:  a07030752                                08-Mar-07  Elapse:  22:52.7      671
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville               Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   351 > 991            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

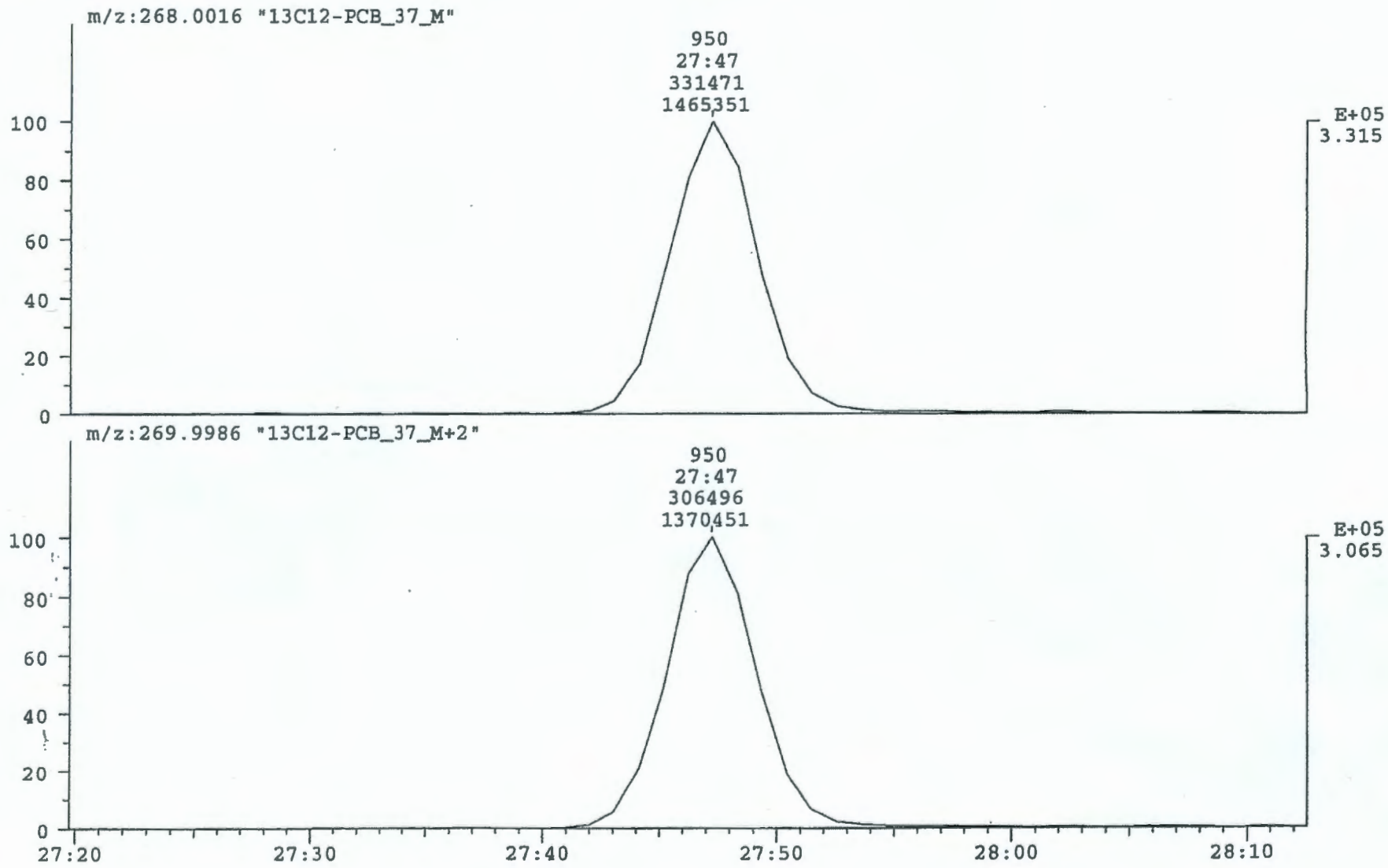
```
CHRO:  a07030752                                08-Mar-07   Elapse:  19:18.3      472
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   352 > 612             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



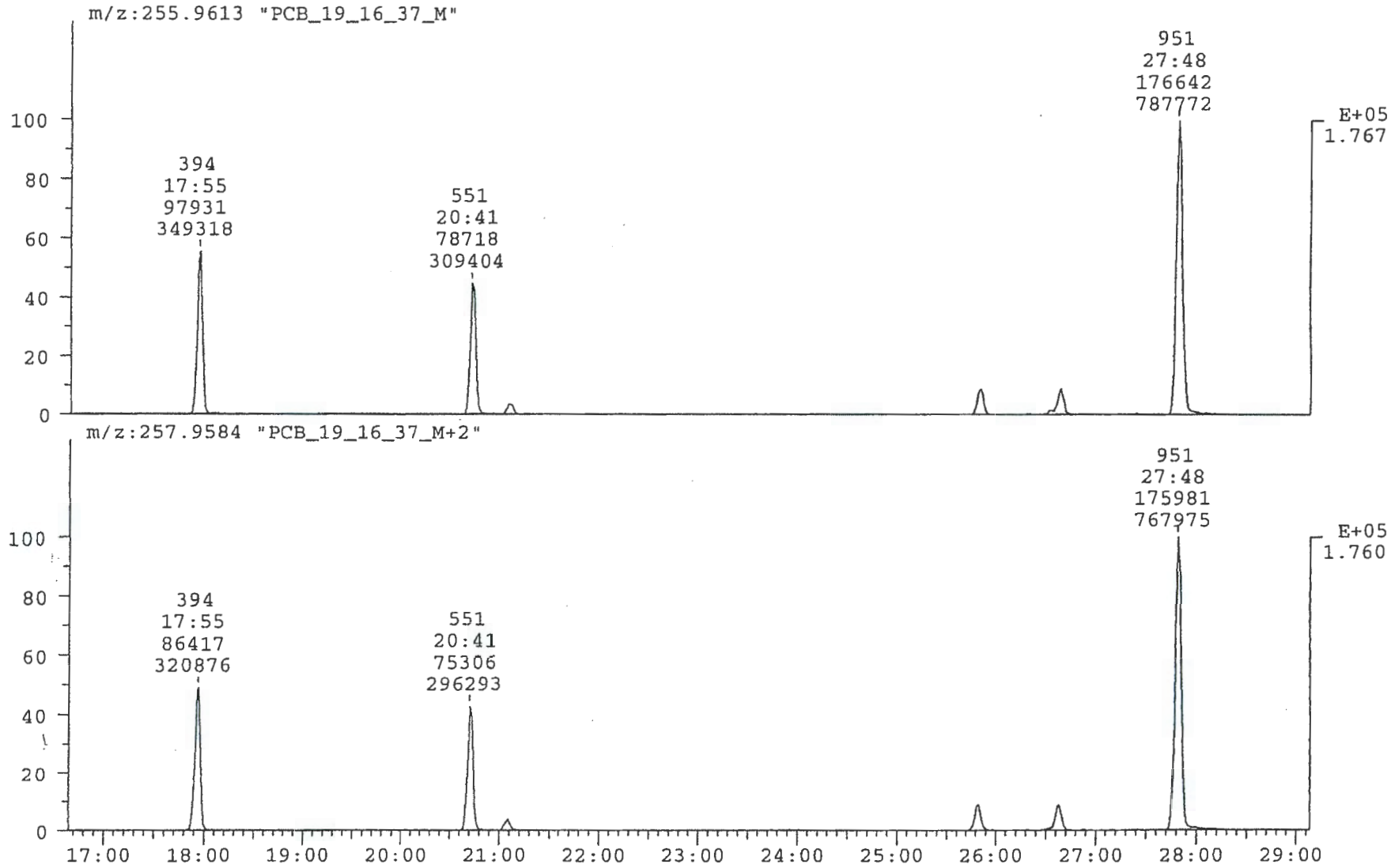
```
CHRO:  a07030752                                08-Mar-07   Elapse:  23:24.4      701
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   676 > 741             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030752                                08-Mar-07  Elapse:  27:46.2      949
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   924 > 974           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

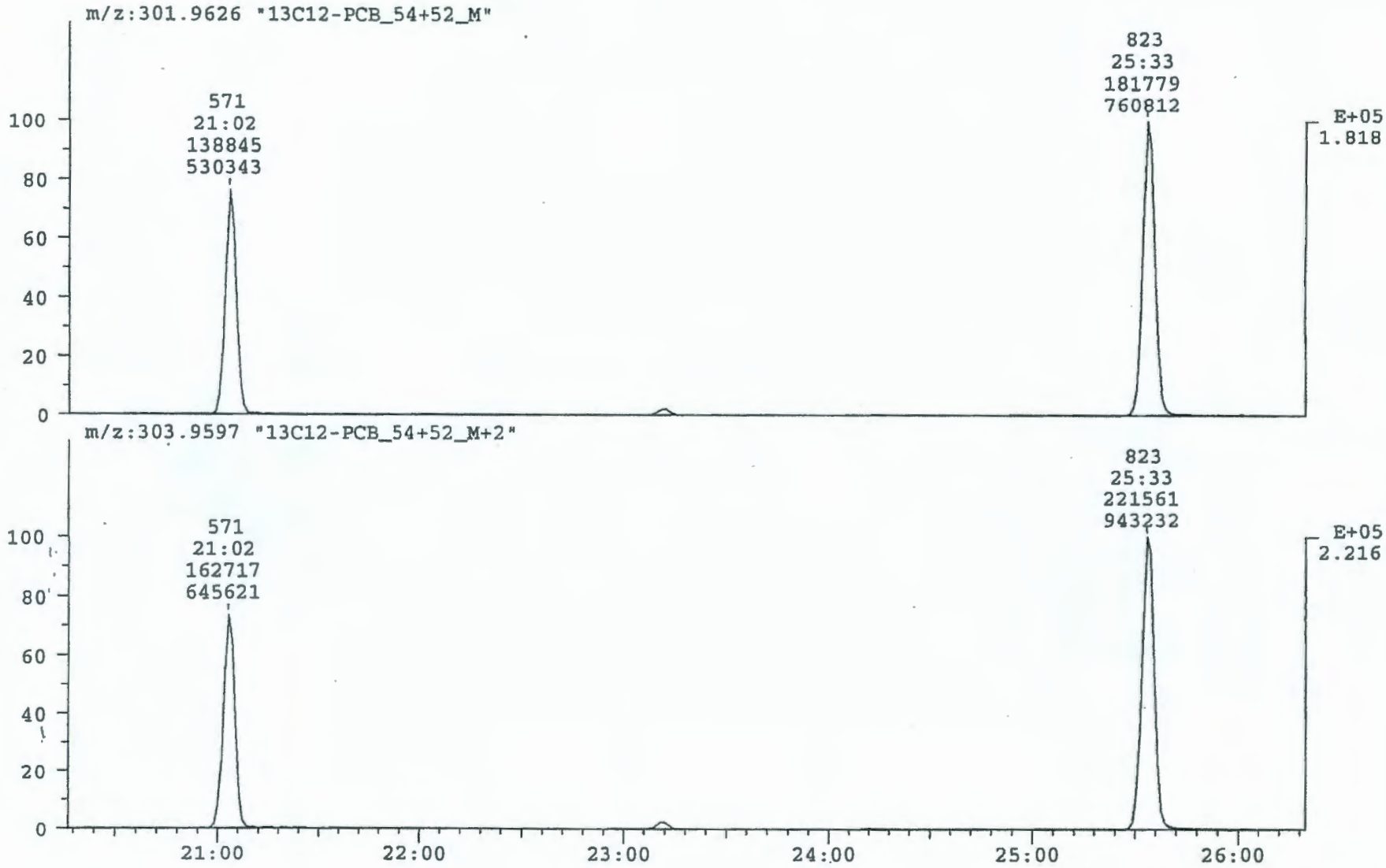


```
CHRO:  a07030752                                08-Mar-07   Elapse:  22:52.7      671
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   321 > 1026            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

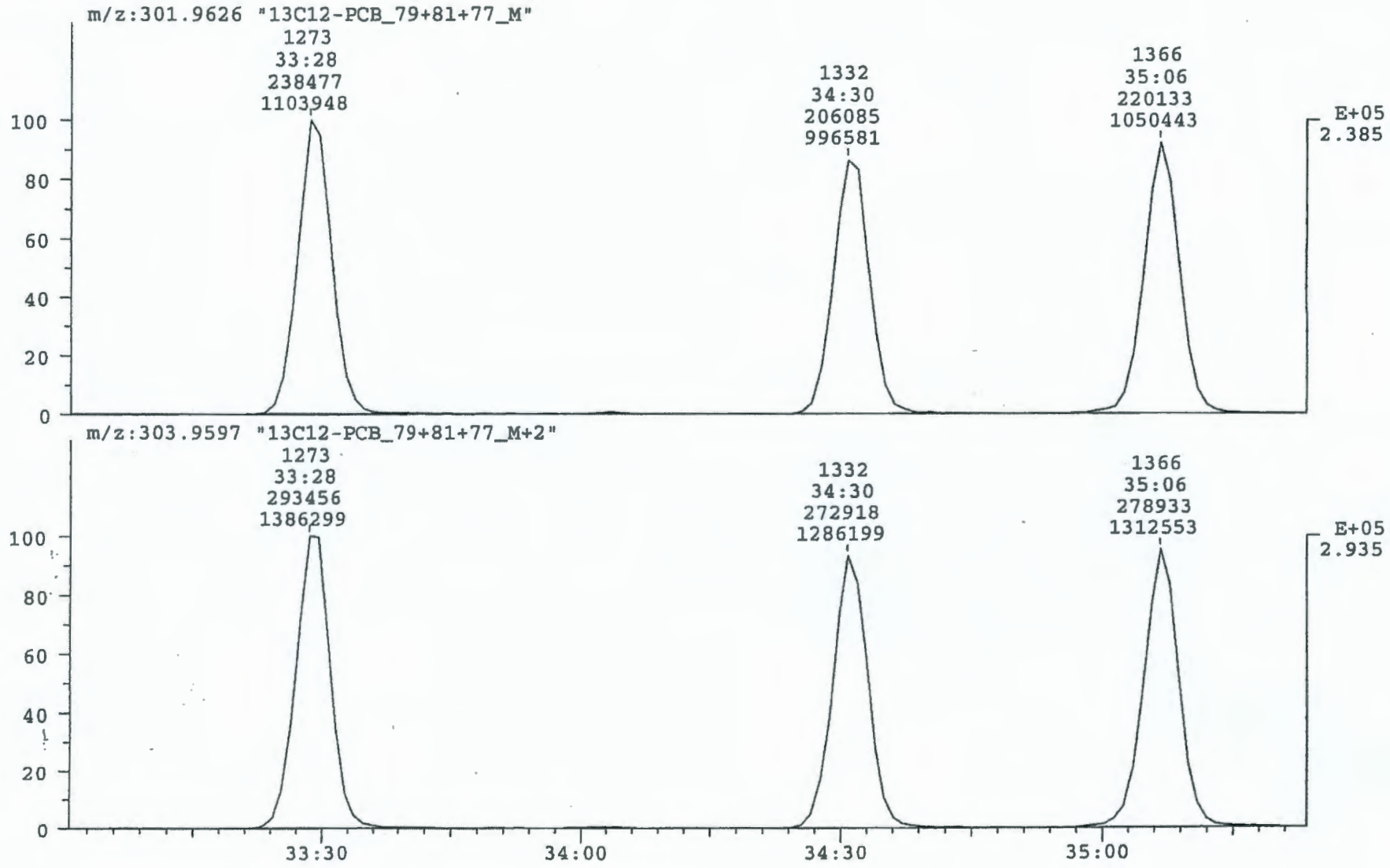


CHRO: a07030752 08-Mar-07 Elapse: 27:54.6 957
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 500 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

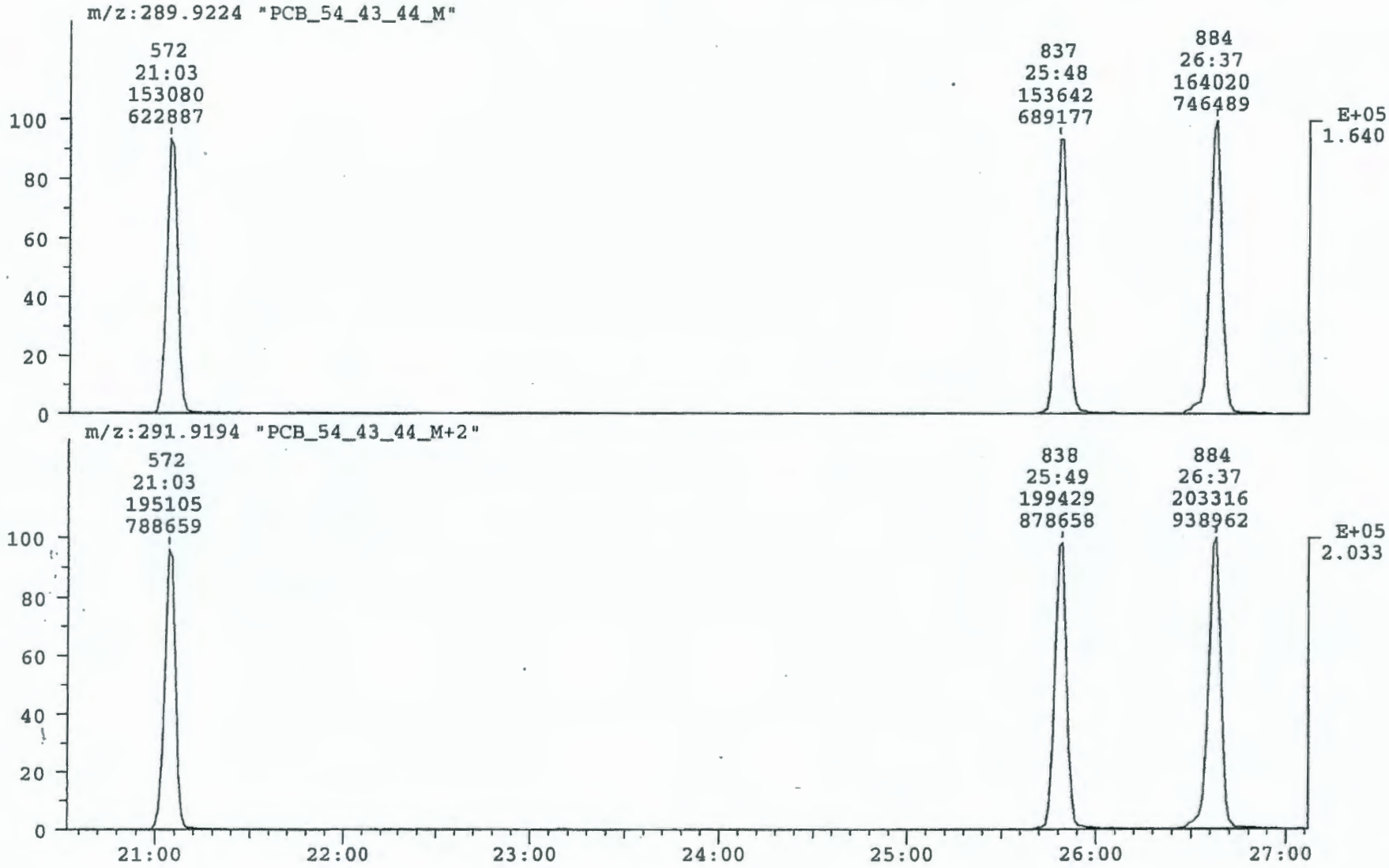
```
CHRO:  a07030752                                08-Mar-07   Elapse:  23:20.2      697
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



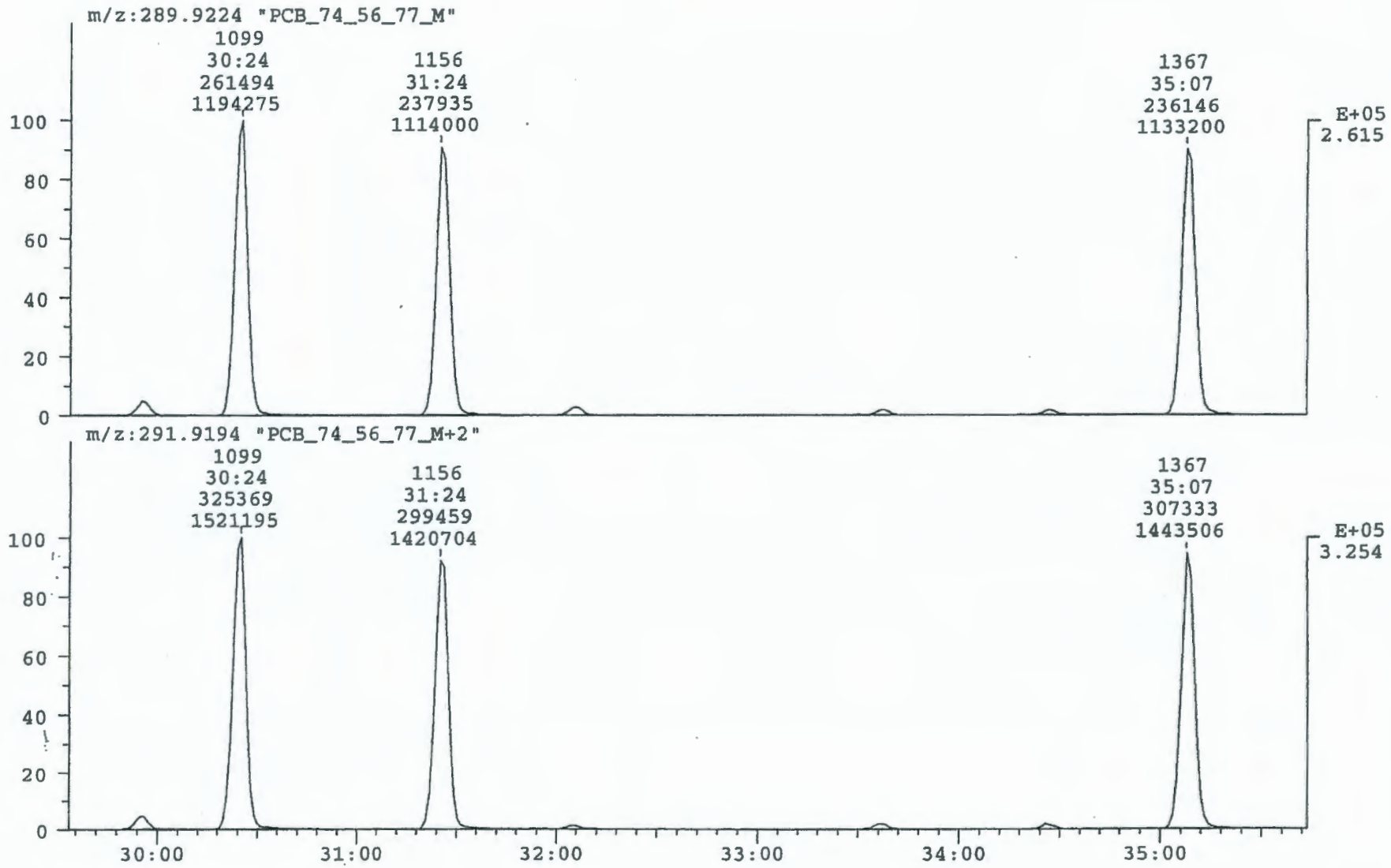
```
CHRO:  a07030752                                08-Mar-07   Elapse:  34:14      1317
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   7
Peak:  100.00  ppm    Label wndw:   1247 > 1382             Masses:  181 > 510
Area:  5, 0.50, 15    Baseline  :   100, 3                  Label :  -3, 3.0
Disp:  Height  Area
```



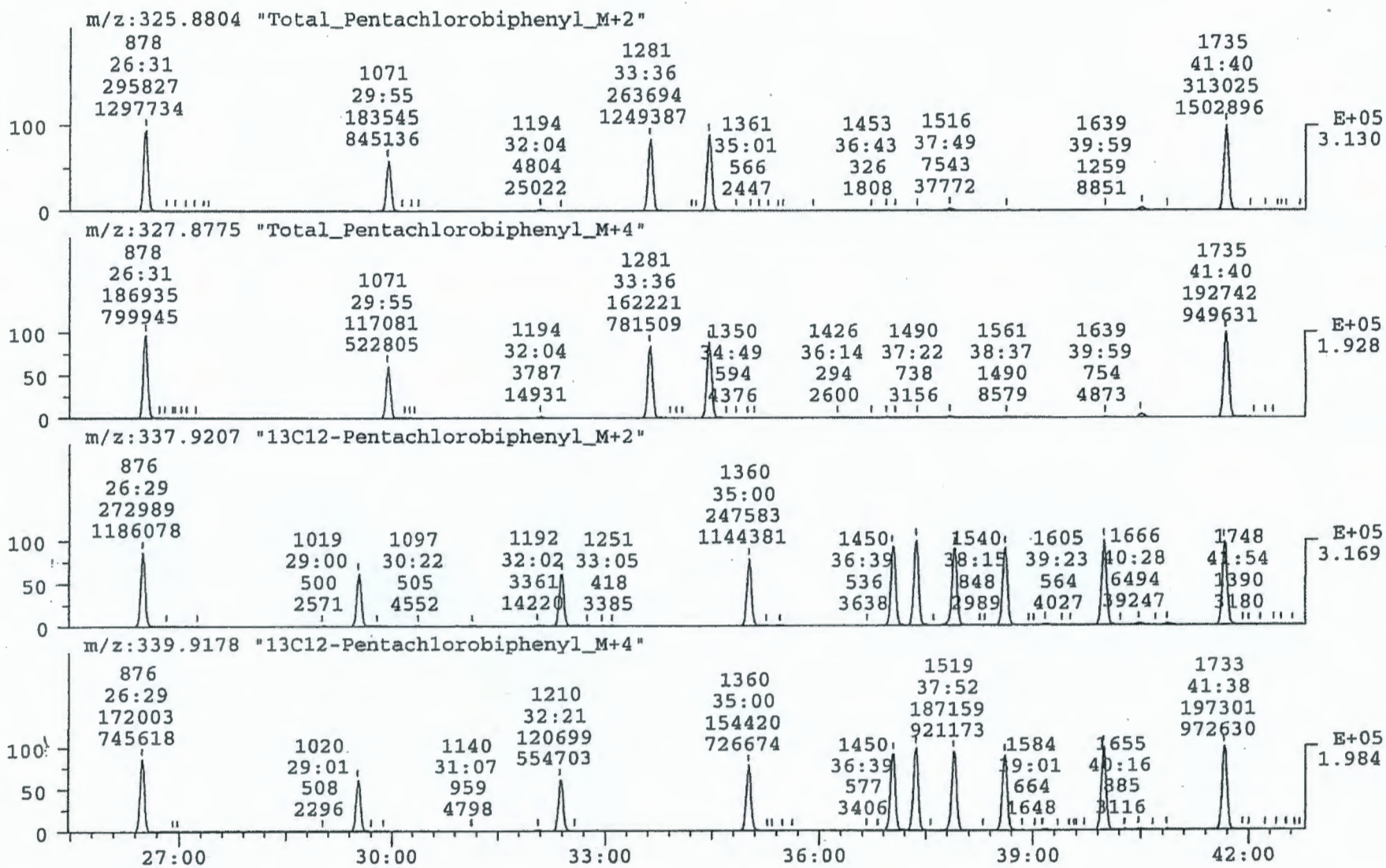
```
CHRO:  a07030752                                08-Mar-07   Elapse:  23:51.8      727
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   542 > 912             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



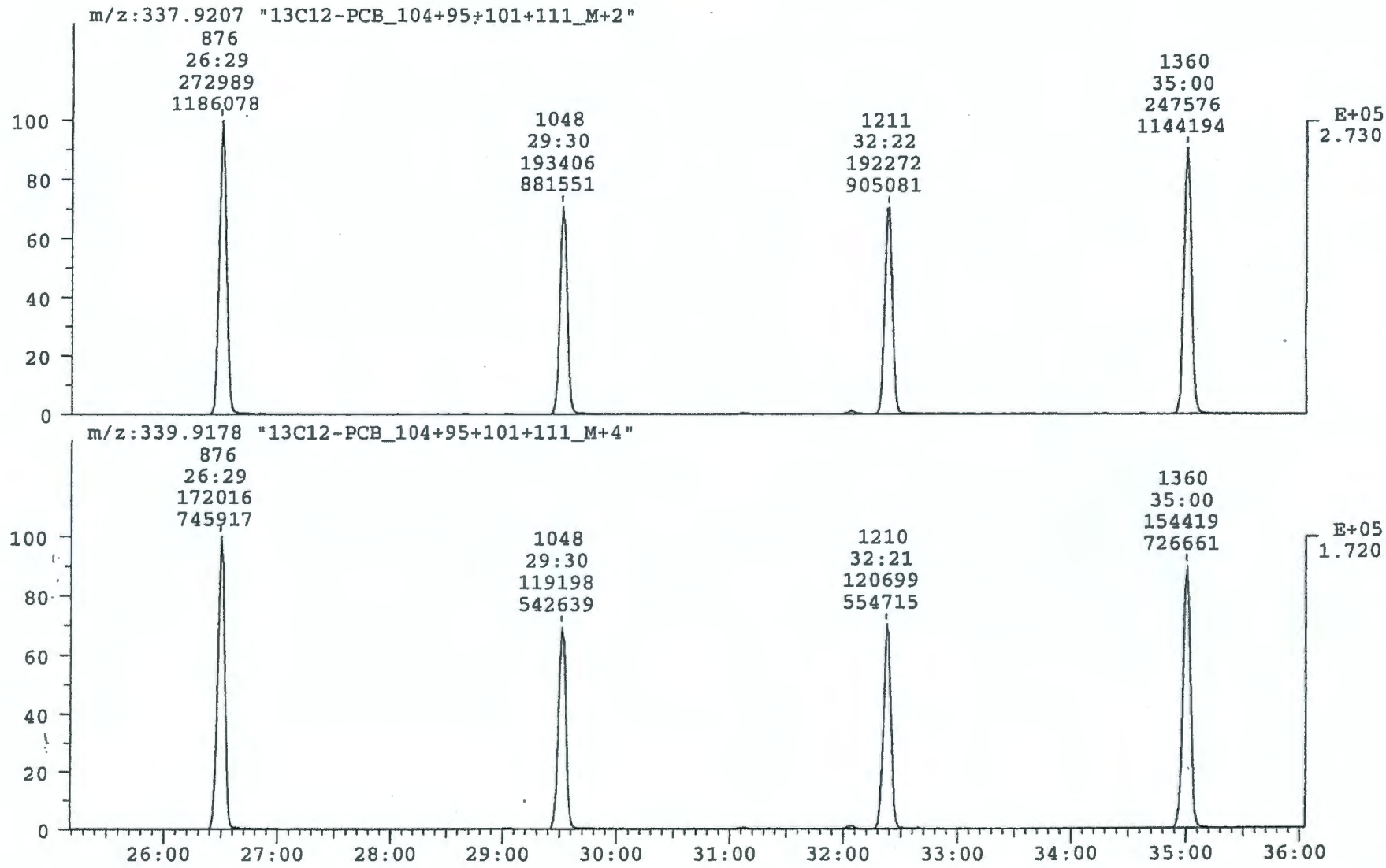
```
CHRO:  a07030752                                08-Mar-07   Elapse:  32:38      1226
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1051 > 1401           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



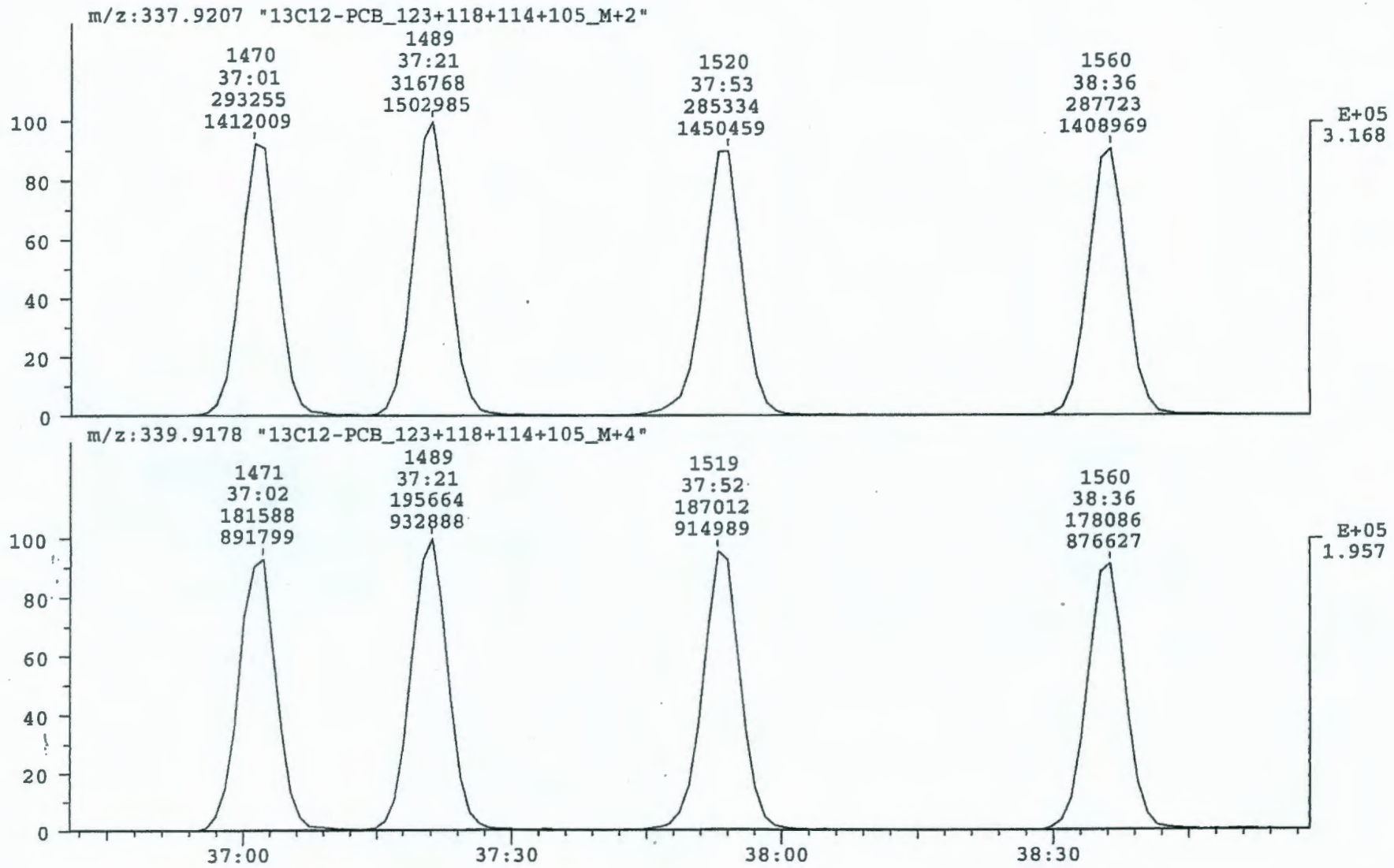
CHRO: a07030752 08-Mar-07 Elapse: 34:08 1311
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 818 > 1799 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



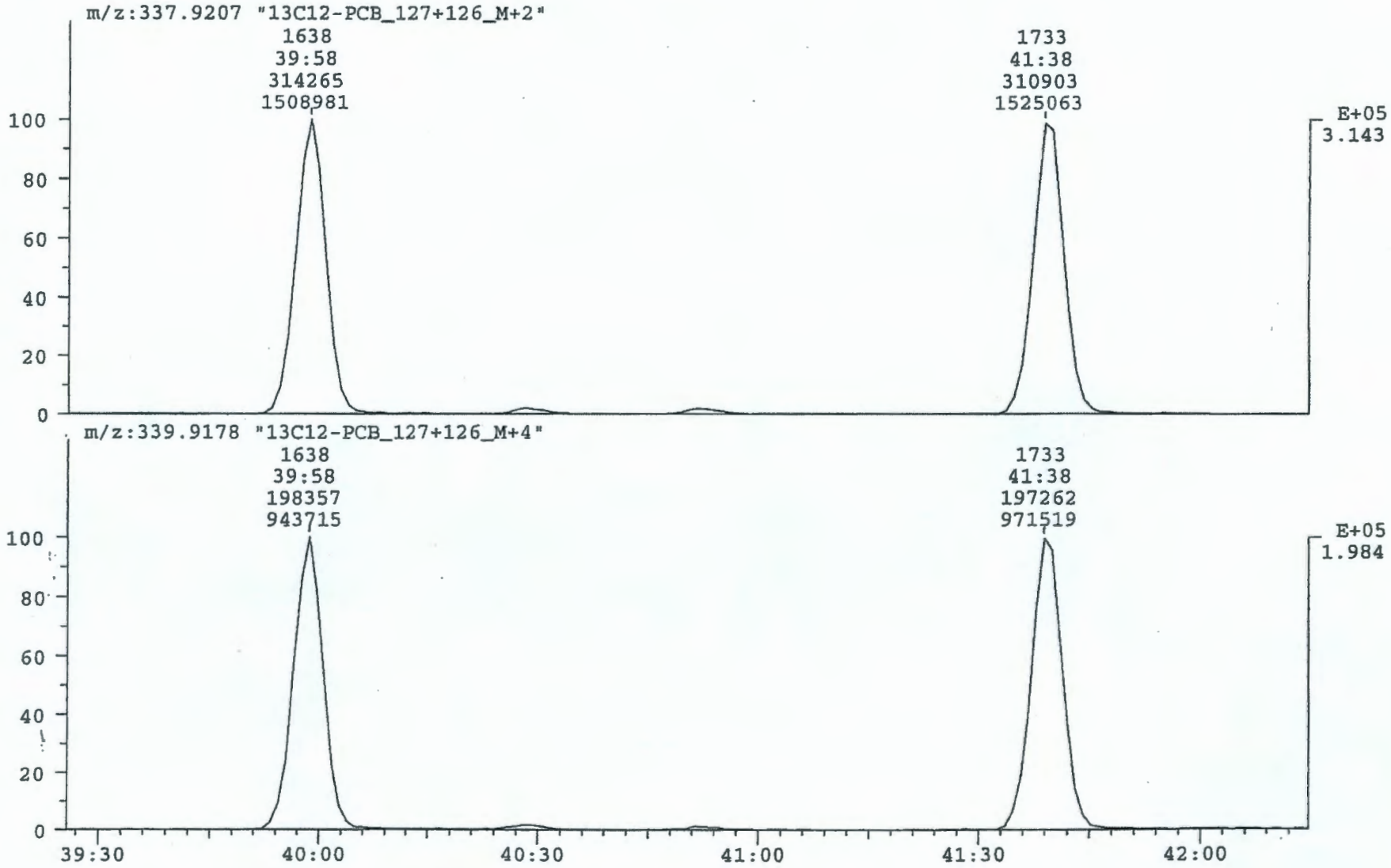
```
CHRO:  a07030752                                08-Mar-07  Elapse:  30:37      1111
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  02:18:49   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run2
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   802 > 1419           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



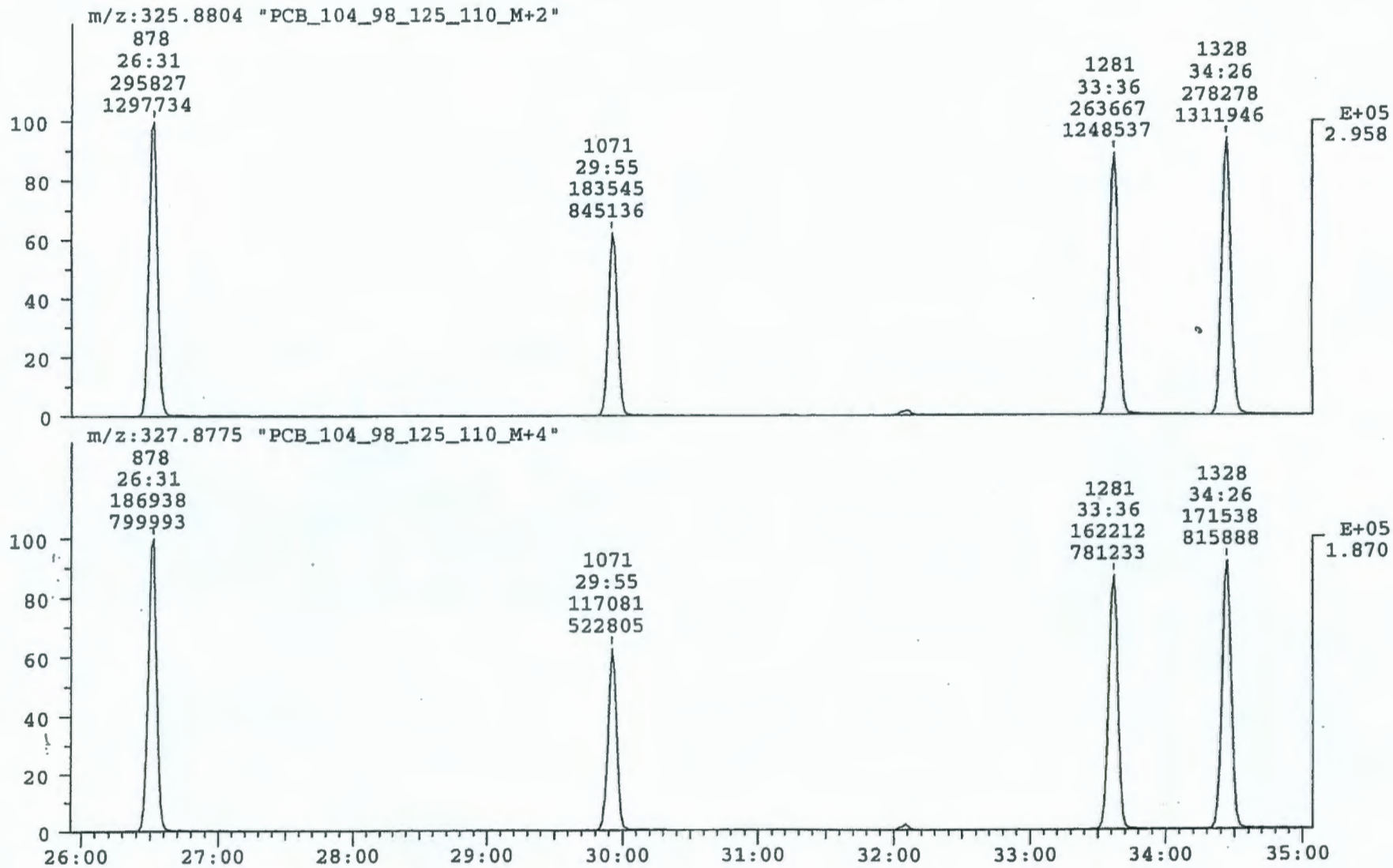
```
CHRO:  a07030752                                08-Mar-07  Elapse:  37:49      1516
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1451 > 1581         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



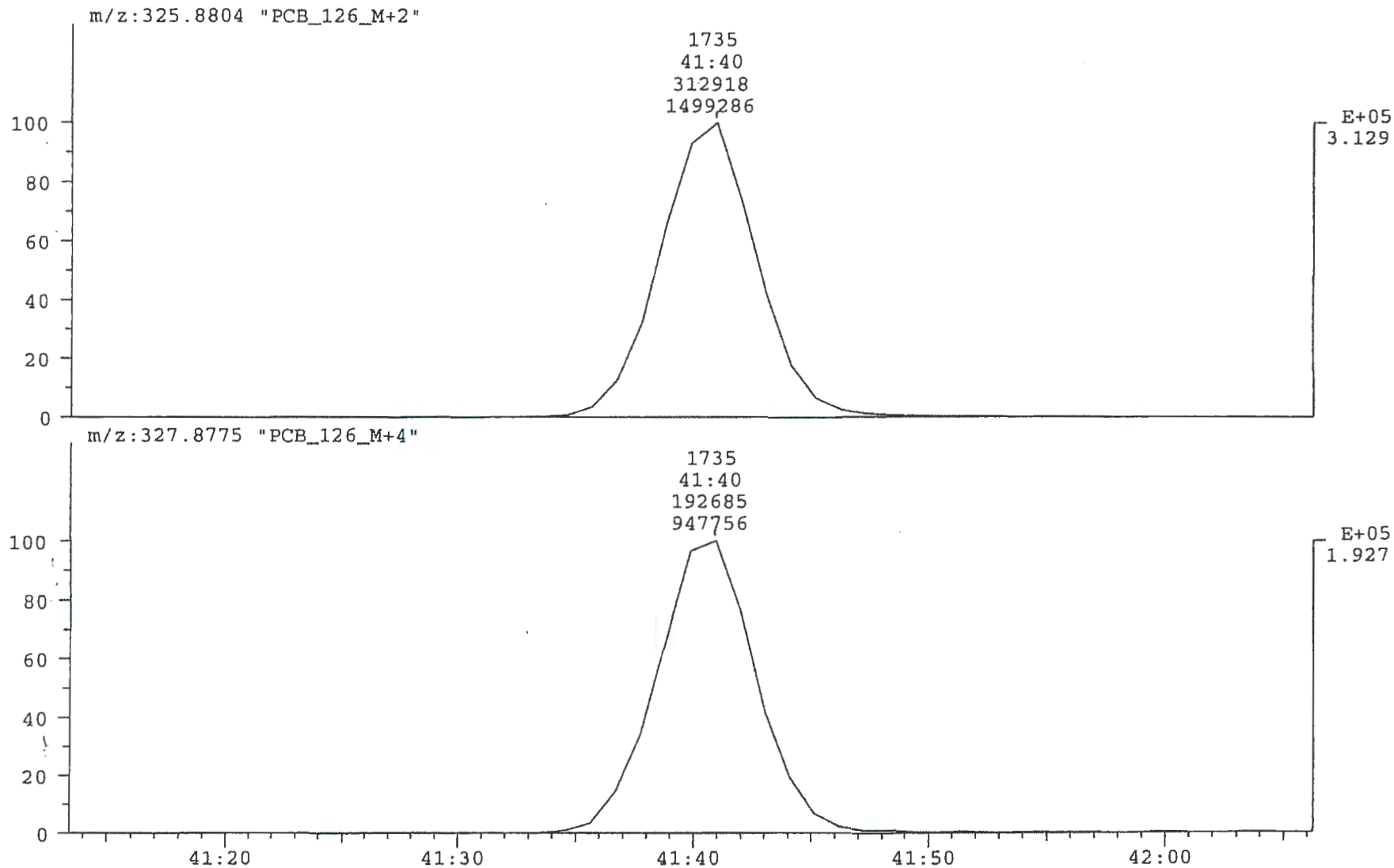
```
CHRO:  a07030752                                08-Mar-07   Elapse:  40:50      1687
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1607 > 1767           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



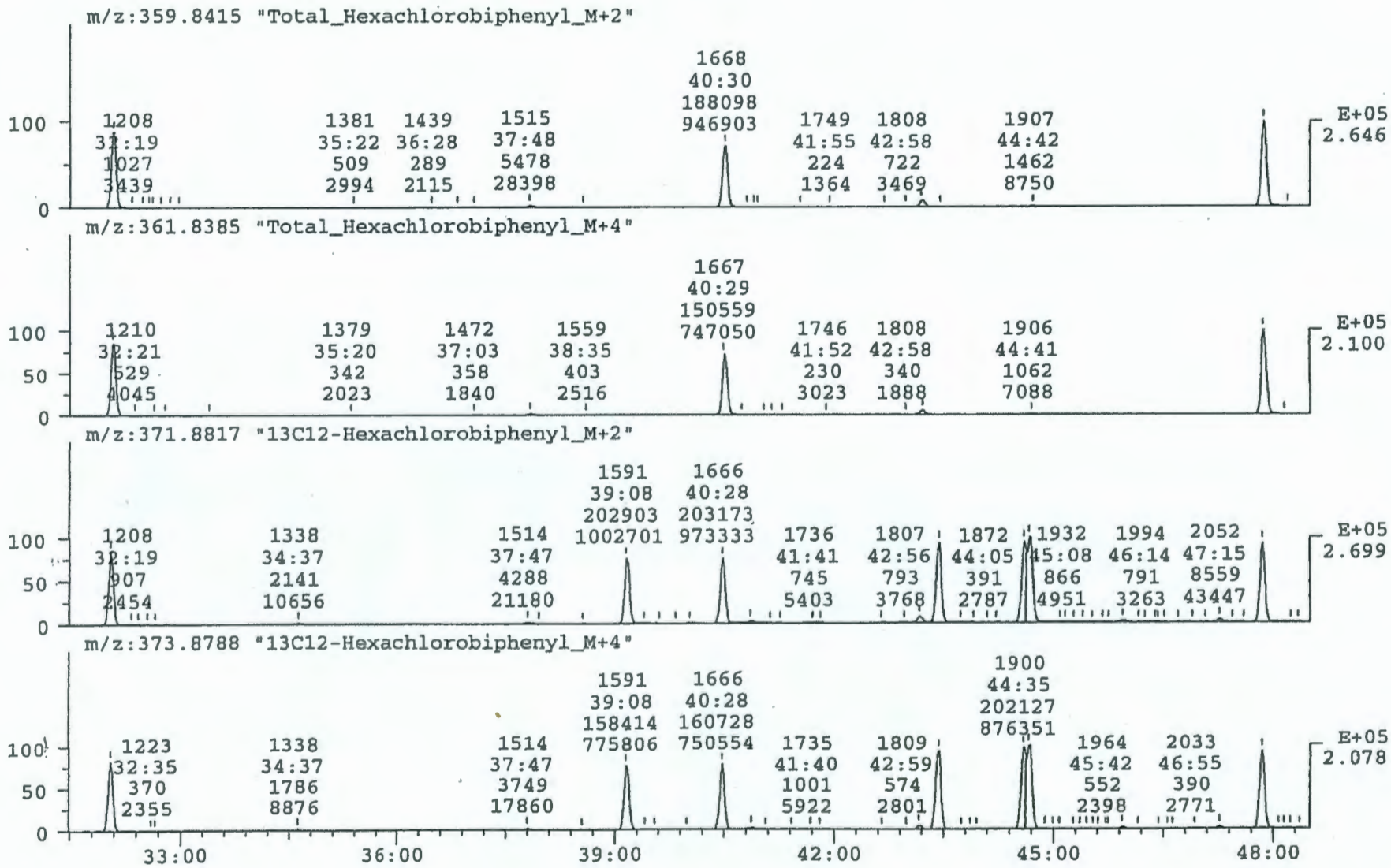
```
CHRO:  a07030752                                08-Mar-07  Elapse:  30:29      1104
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 RT Mix5/Run2
Oper:  DCG          Client:  STL Knoxville                 Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   844 > 1364            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



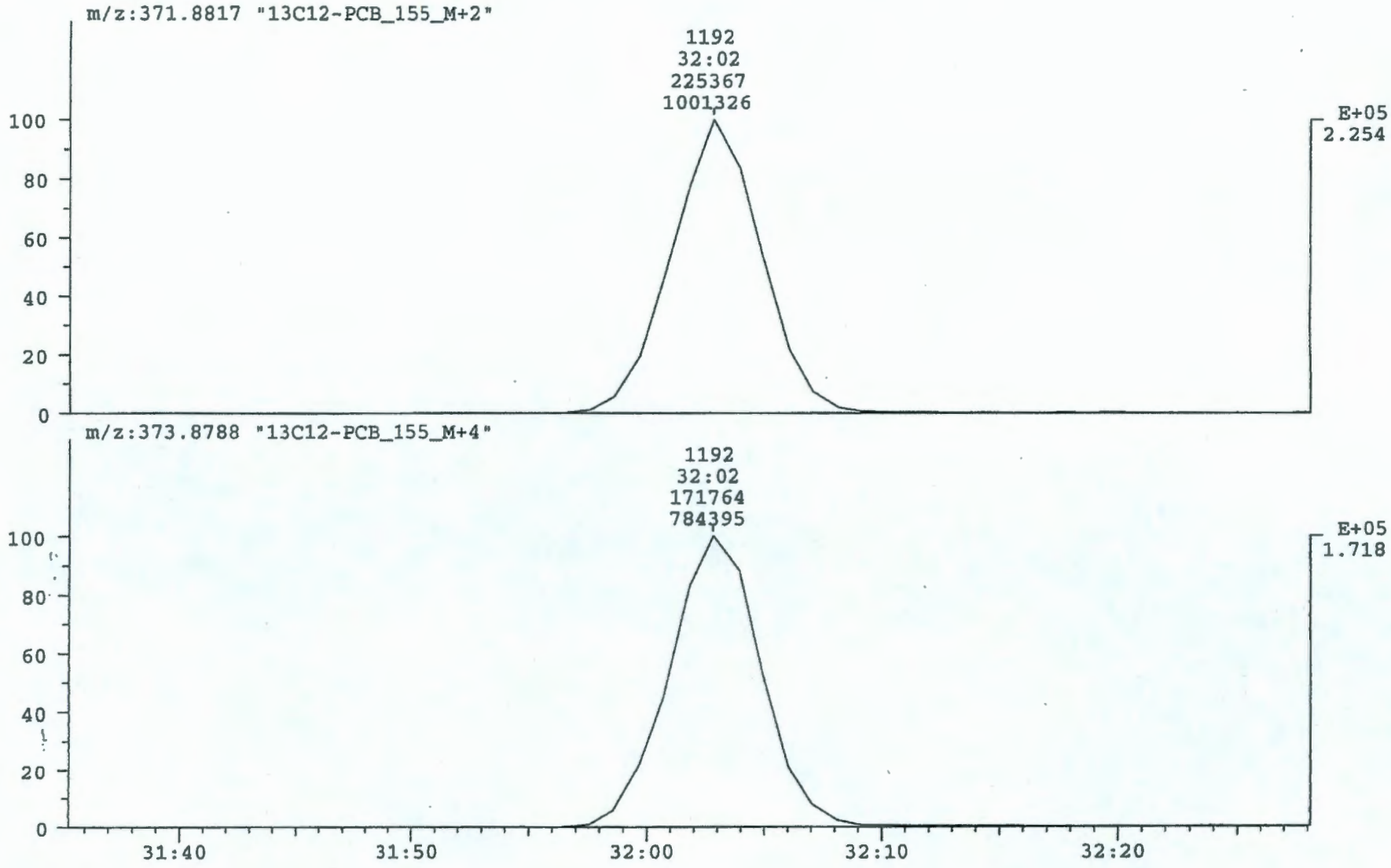
```
CHRO:  a07030752                              08-Mar-07   Elapse:  41:39      1734
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run2
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   1709 > 1759          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



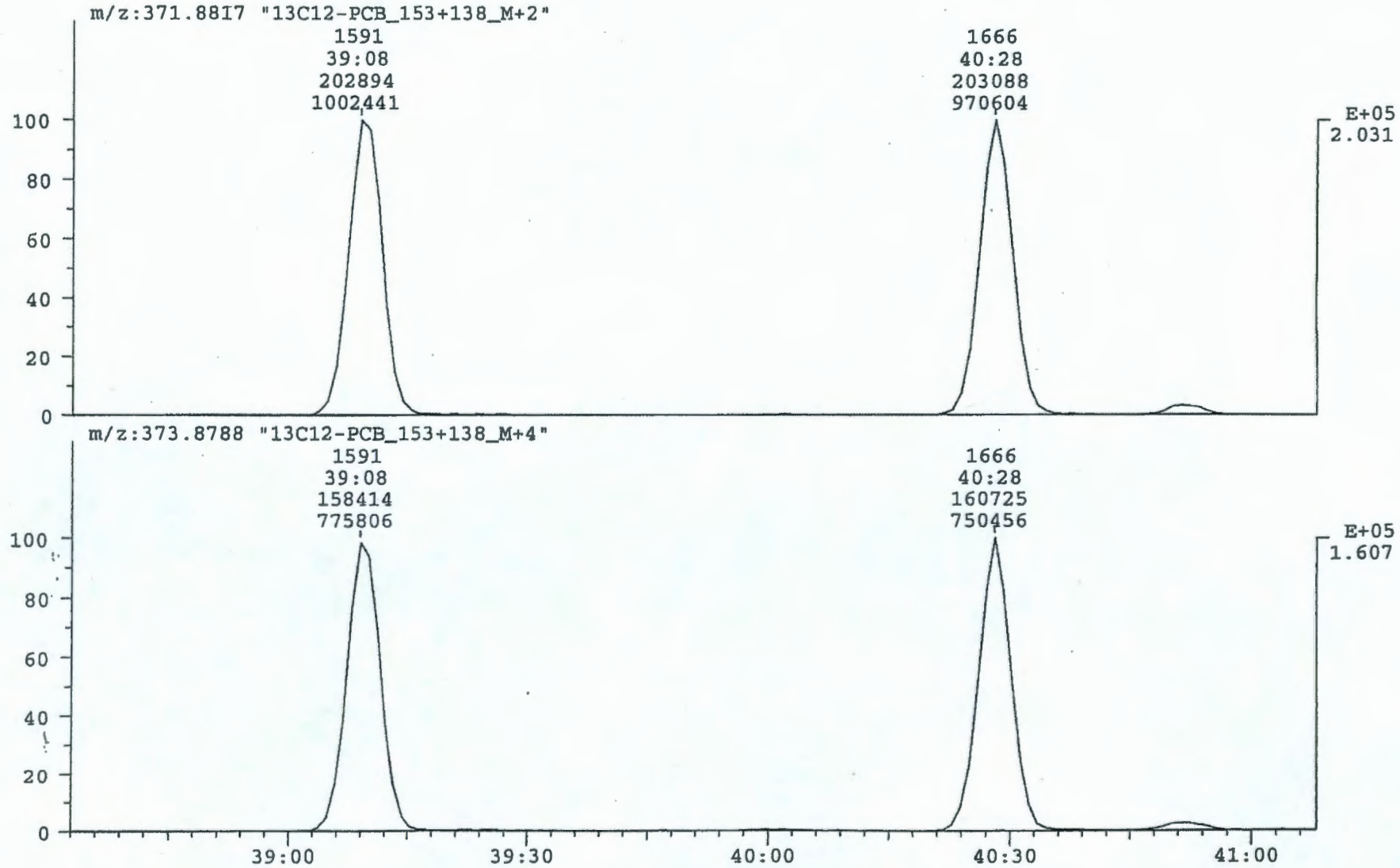
CHRO: a07030752 08-Mar-07 Elapse: 39:59 1639
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1160 > 2122 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



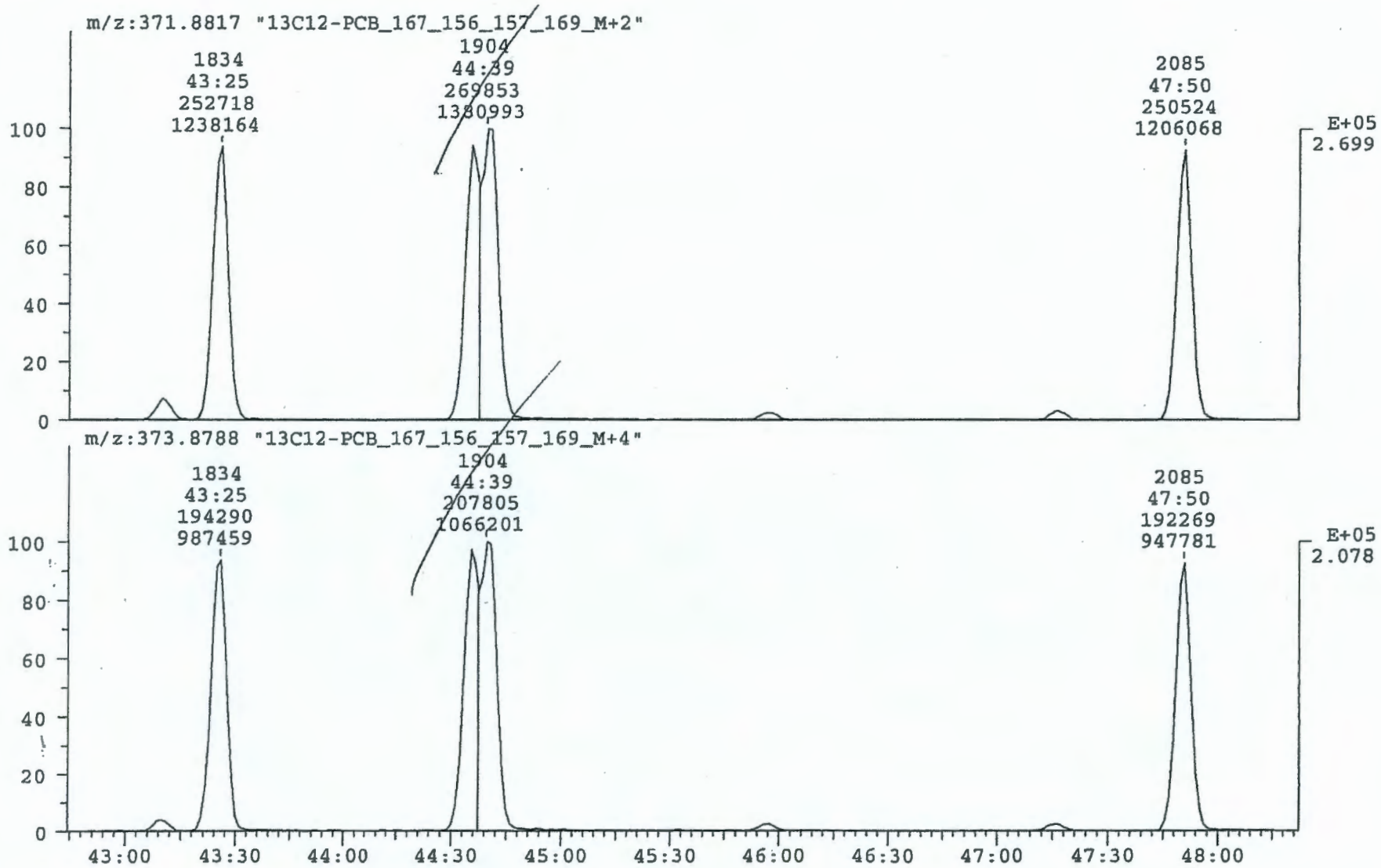
```
CHRO:  a07030752                                08-Mar-07  Elapse:  32:01      1191
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1166 > 1216         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



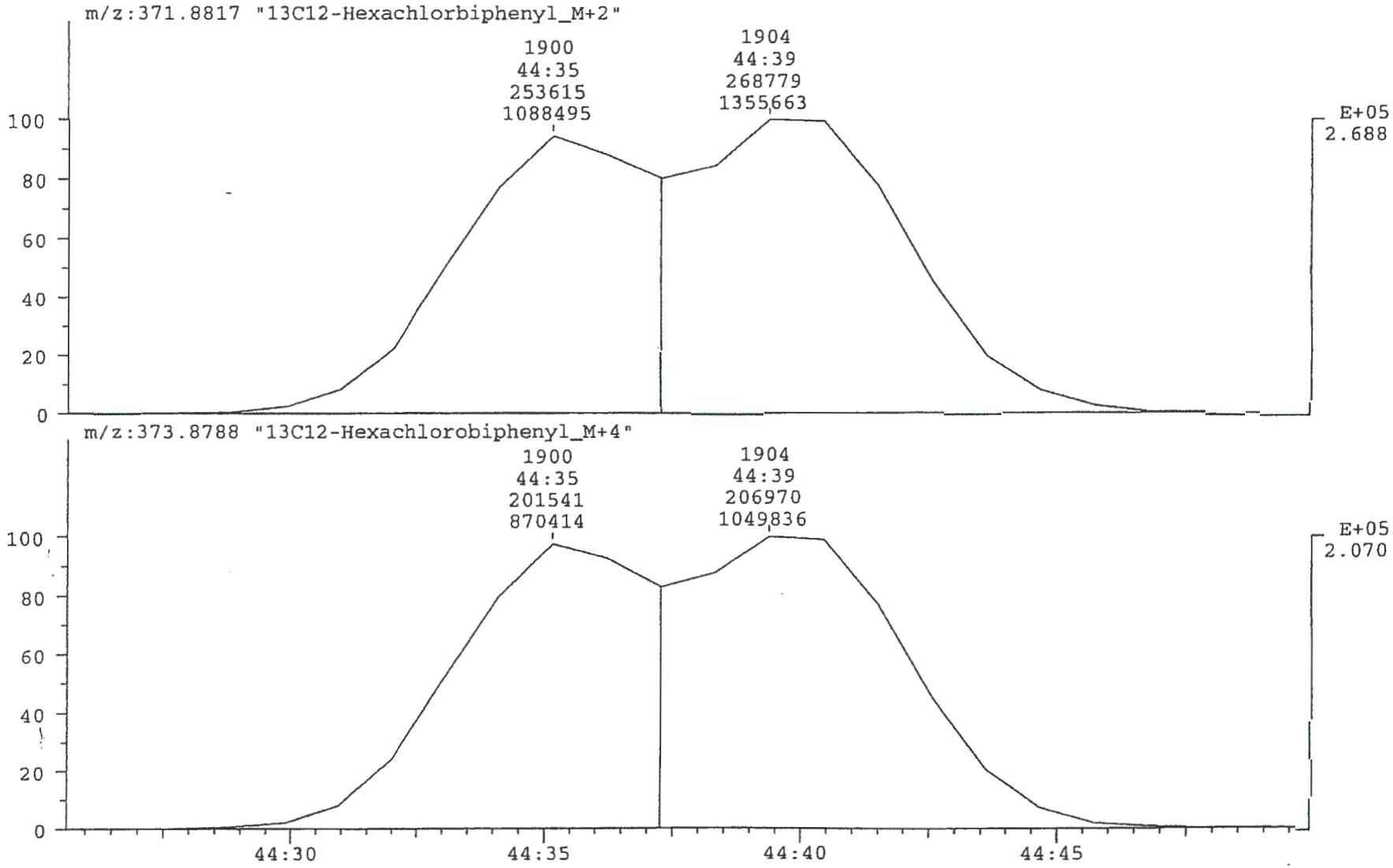
```
CHRO:  a07030752                                08-Mar-07  Elapse:  39:50      1630
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1557 > 1704         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



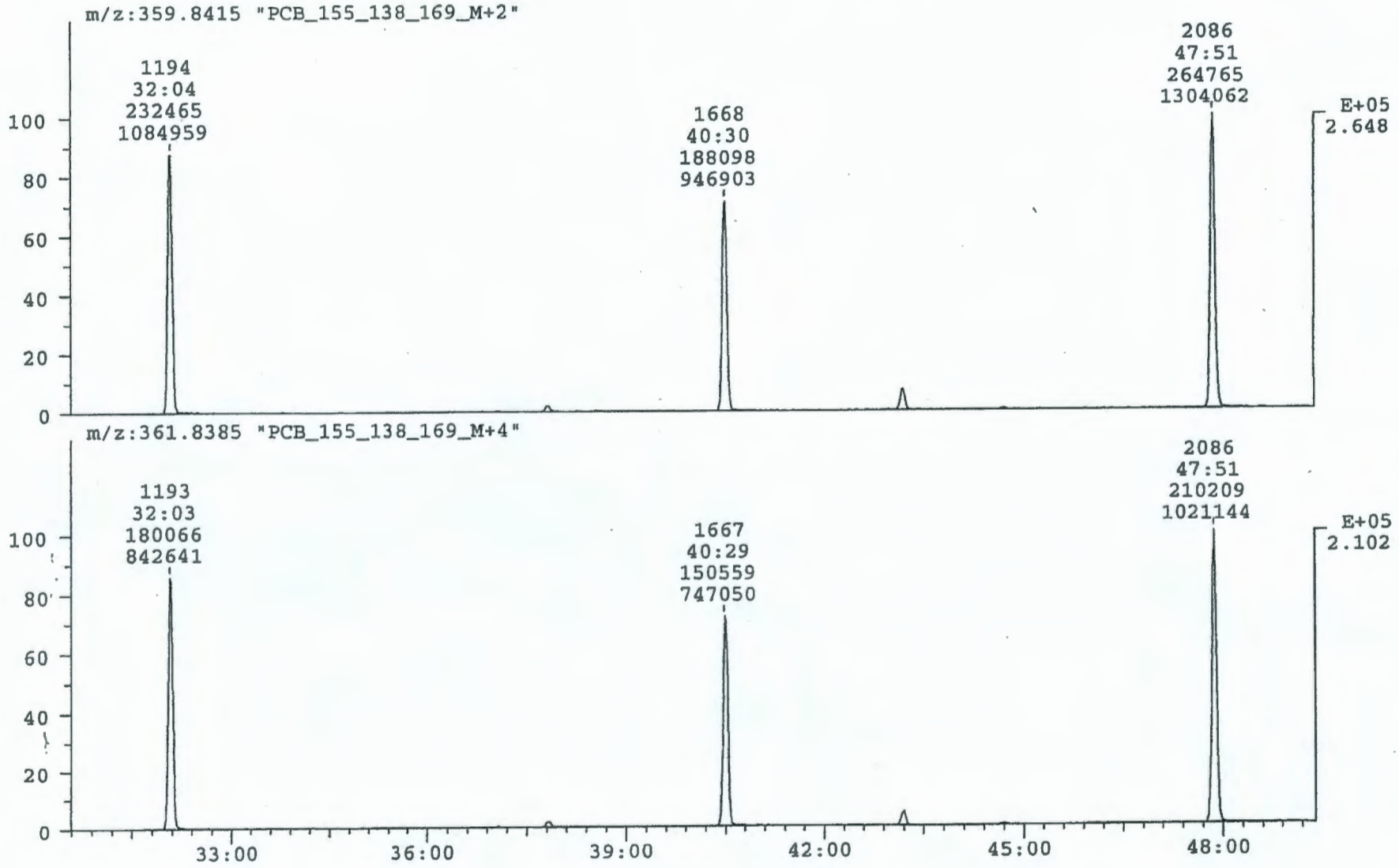
CHRO: a07030752 08-Mar-07 Elapse: 45:38 1960
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1795 > 2115 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



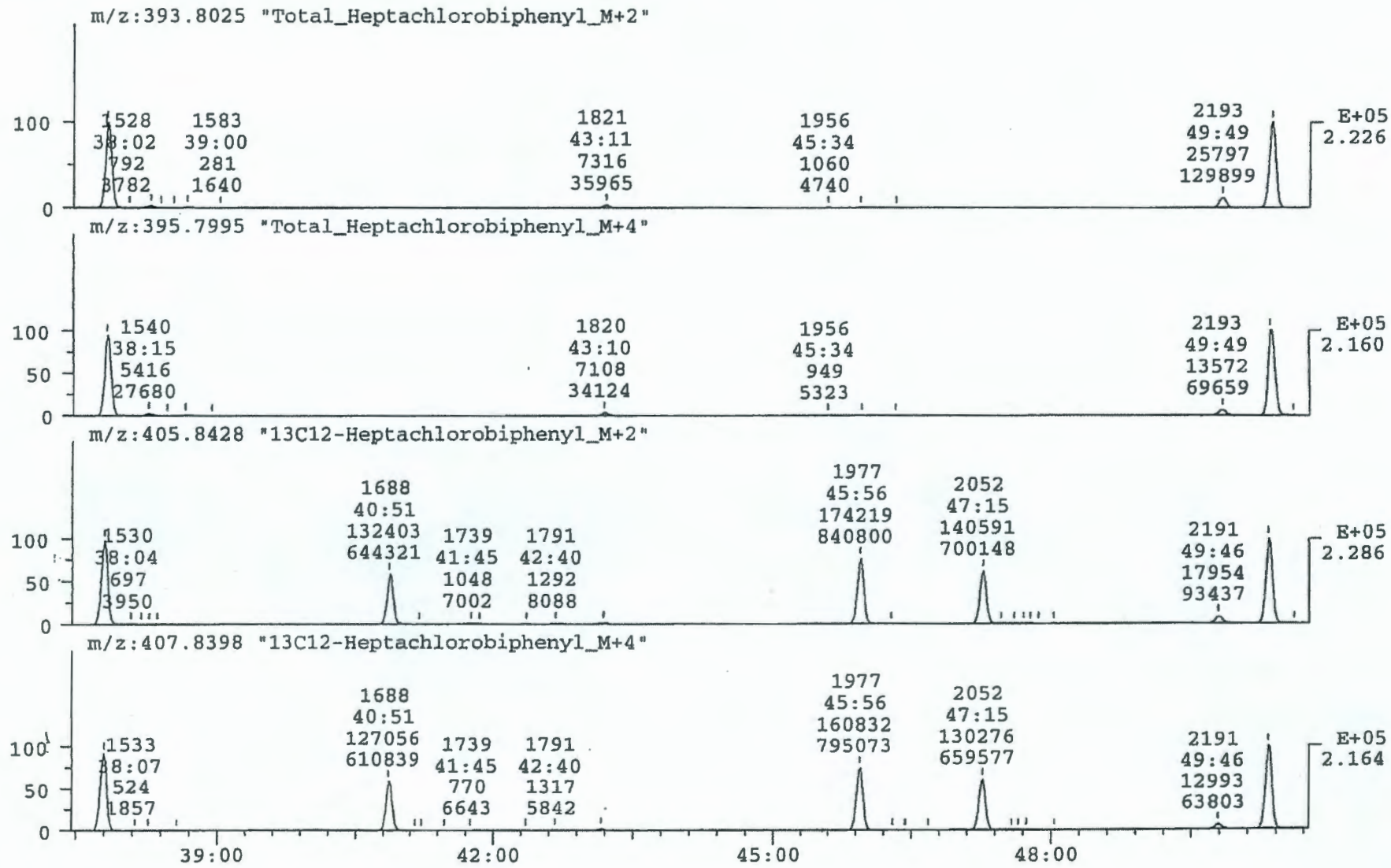
```
CHRO:  a07030752                                08-Mar-07   Elapse:  56:11      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1891 > 1914           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



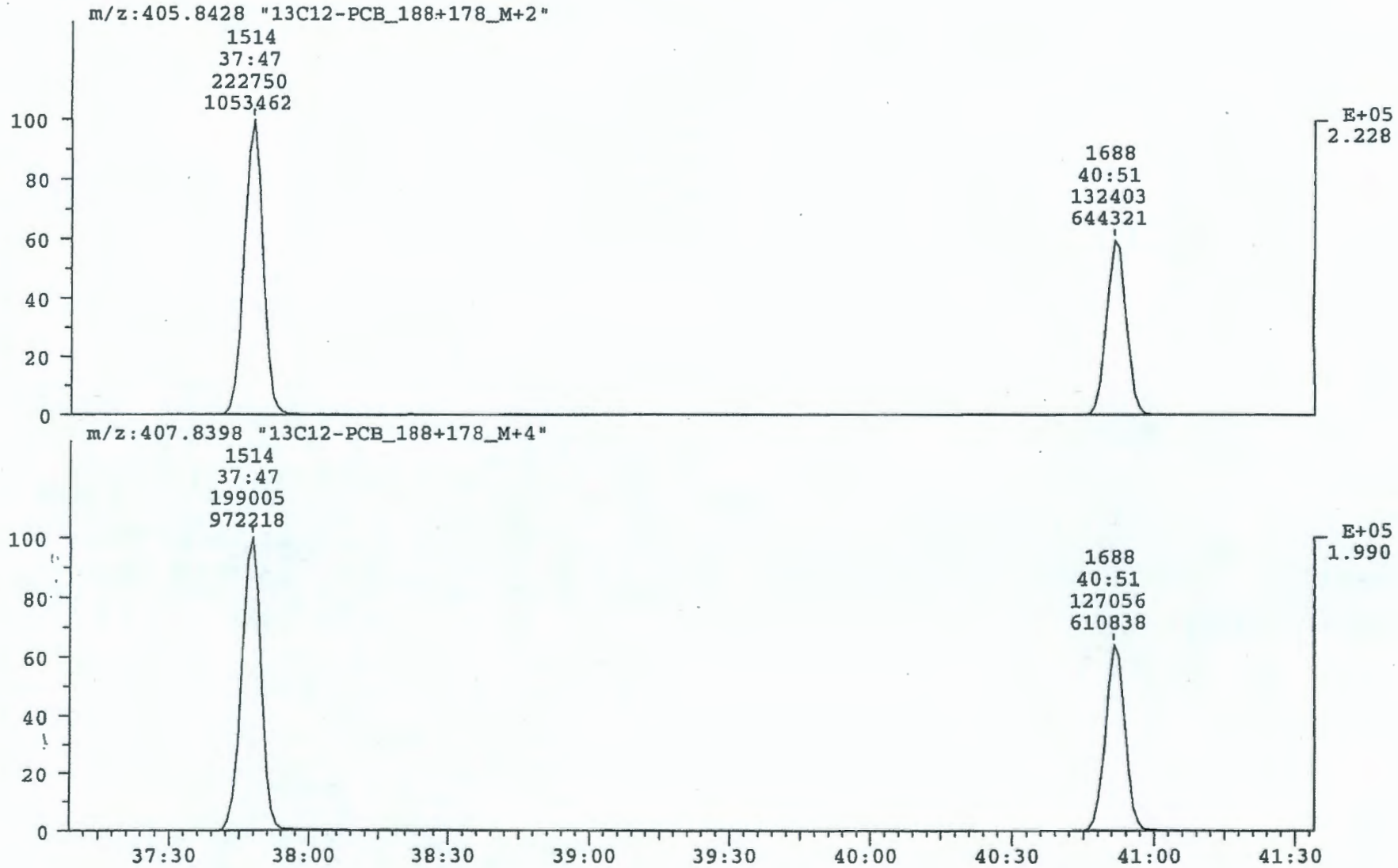
```
CHRO:  a07030752                                08-Mar-07   Elapse:  39:59      1639
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1109 > 2169           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



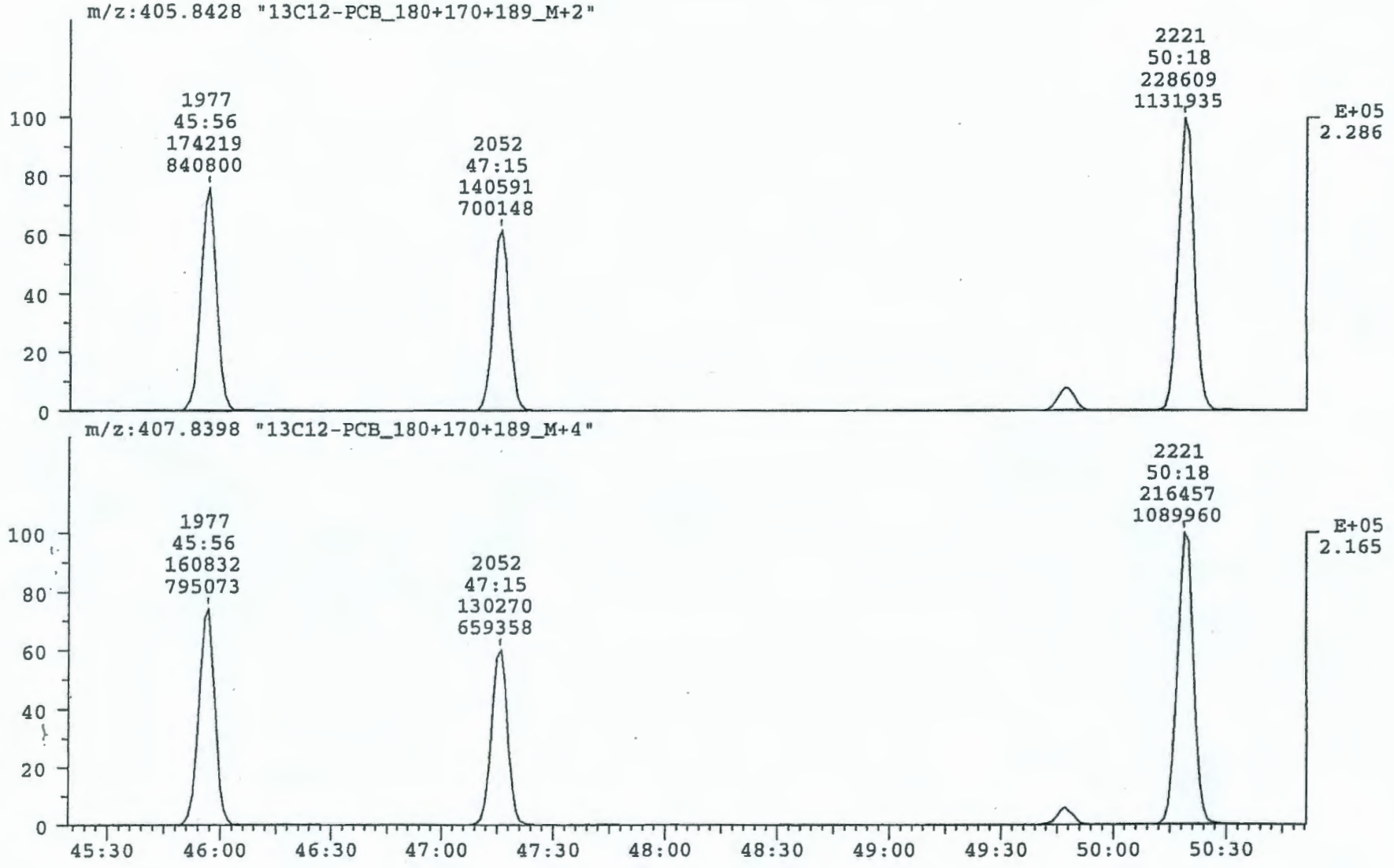
CHRO: a07030752 08-Mar-07 Elapse: 44:05 1872
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1495 > 2246 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



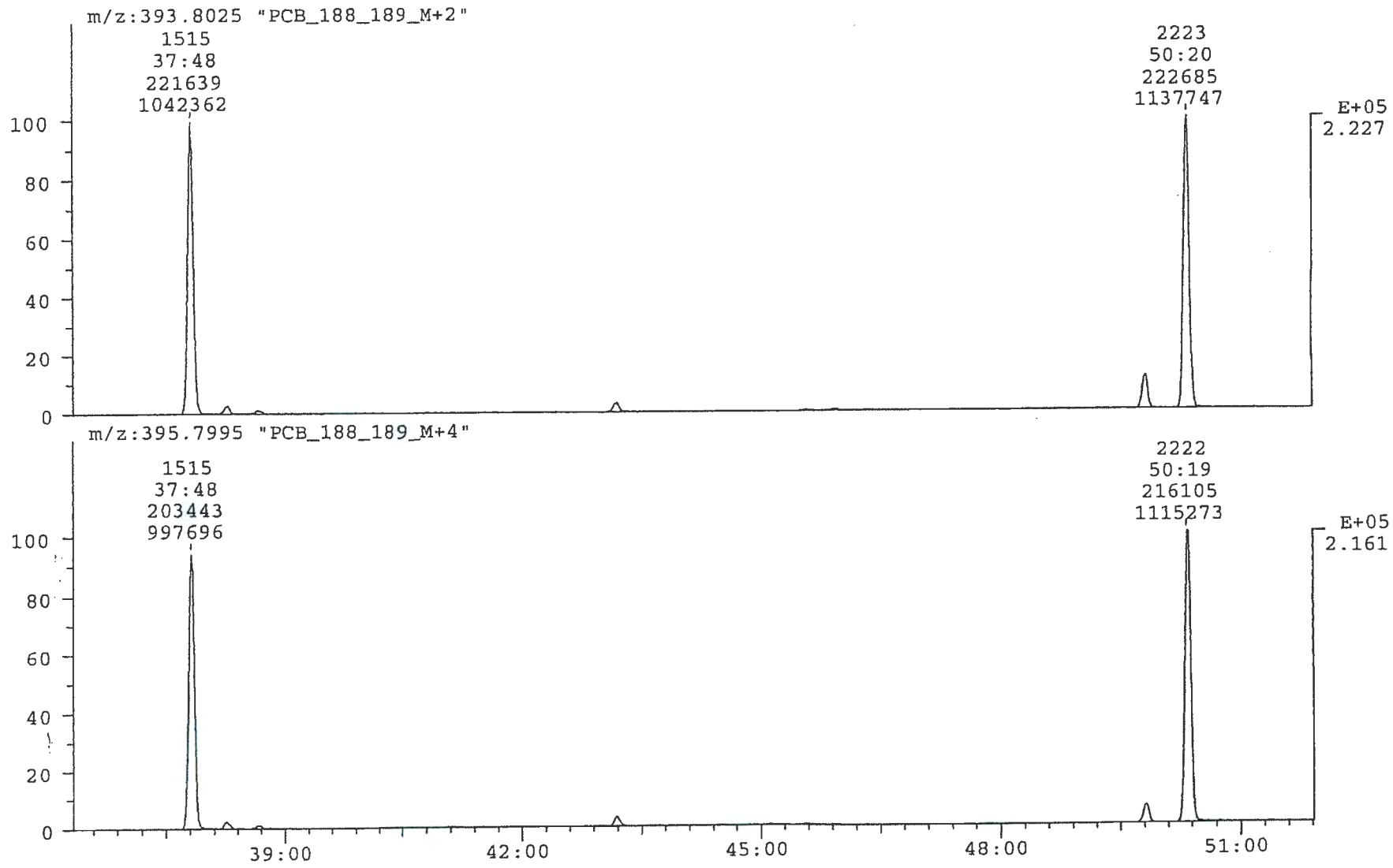
```
CHRO:  a07030752                                08-Mar-07   Elapse:  39:21      1603
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   1478 > 1728            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



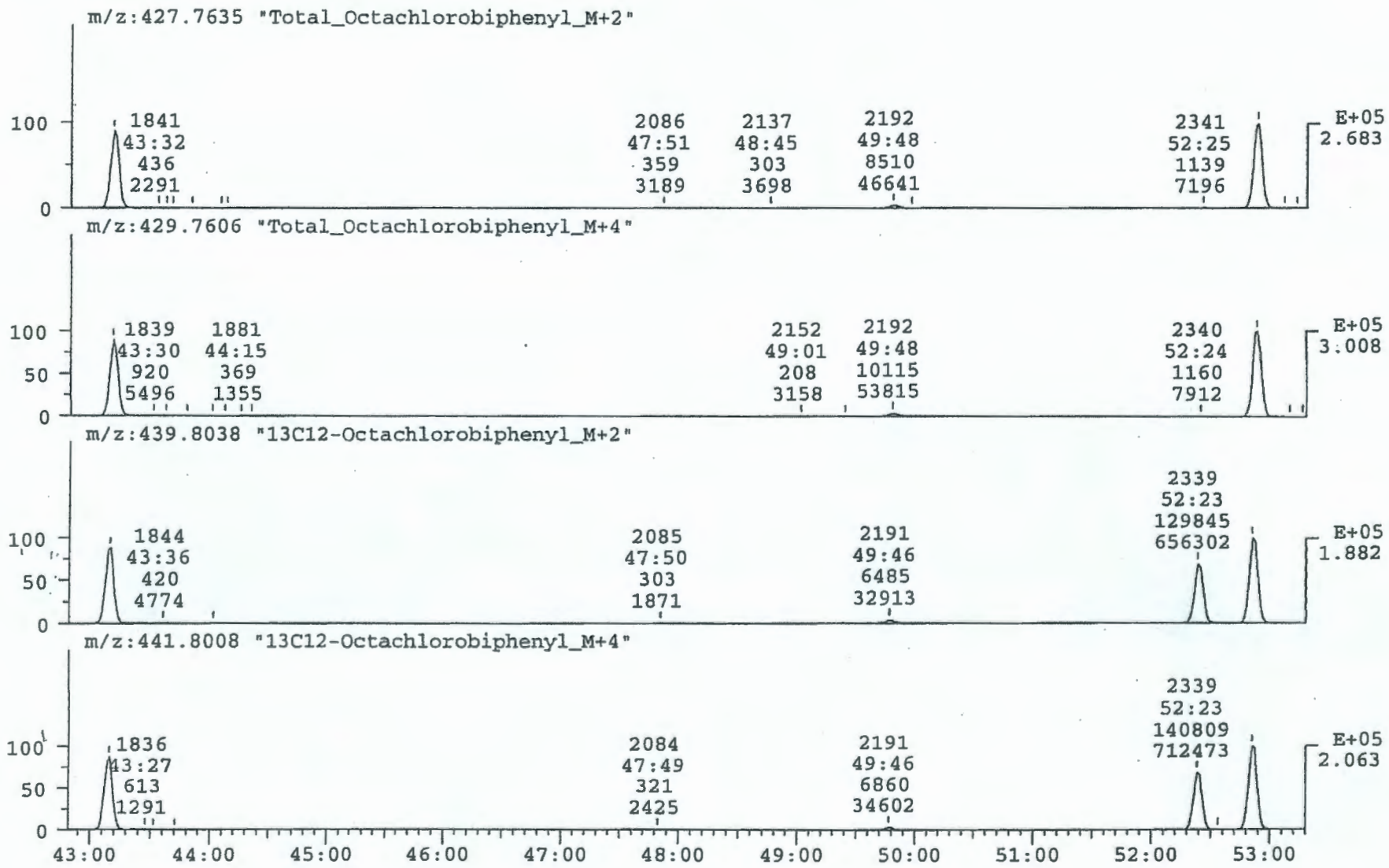
```
CHRO:  a07030752                                08-Mar-07   Elapse:  48:08      2102
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1942 > 2252           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



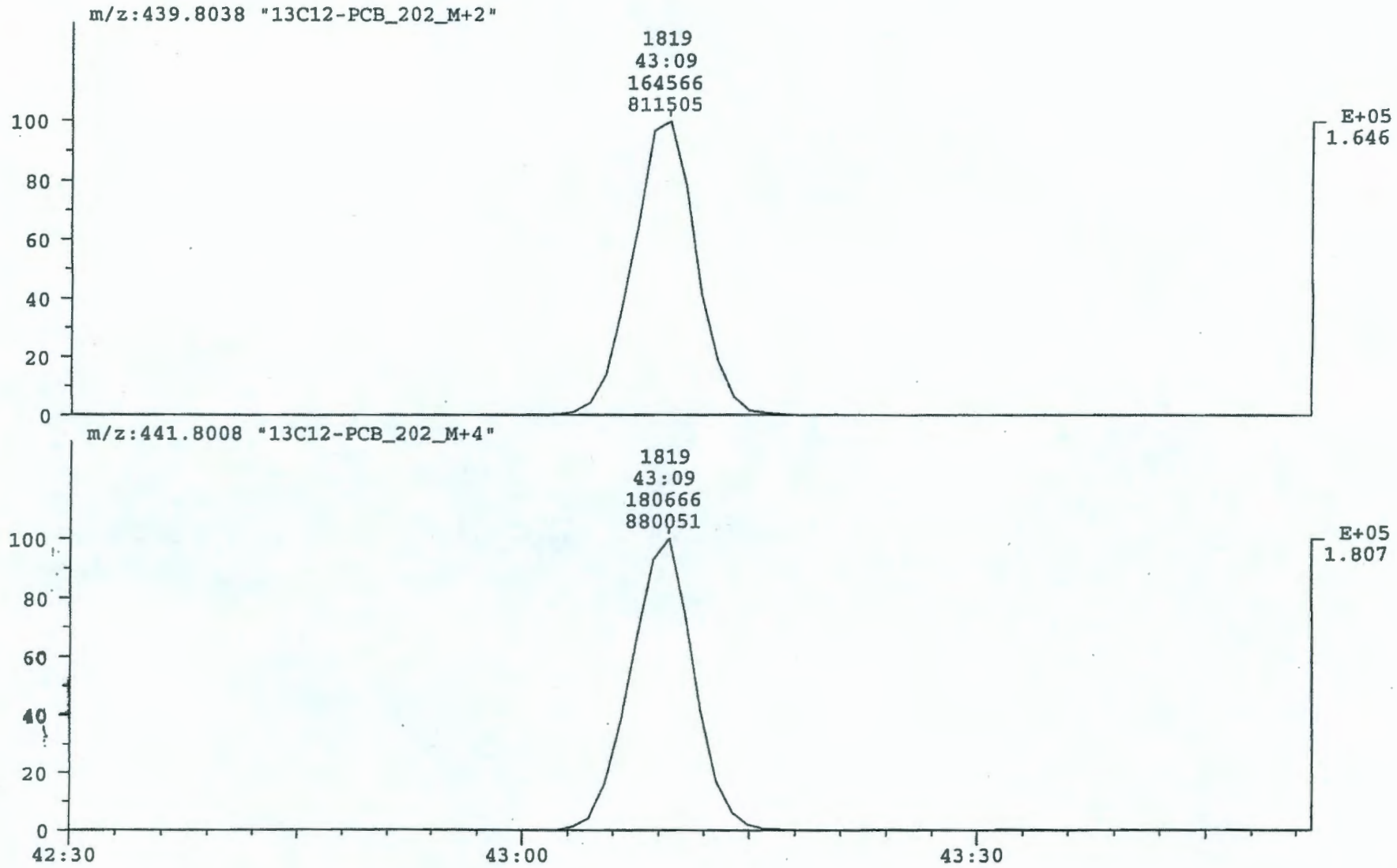
```
CHRO:  a07030752                                08-Mar-07   Elapse:  44:05      1872
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1432 > 2312           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030752                                08-Mar-07  Elapse:  48:03      2097
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1799 > 2391         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

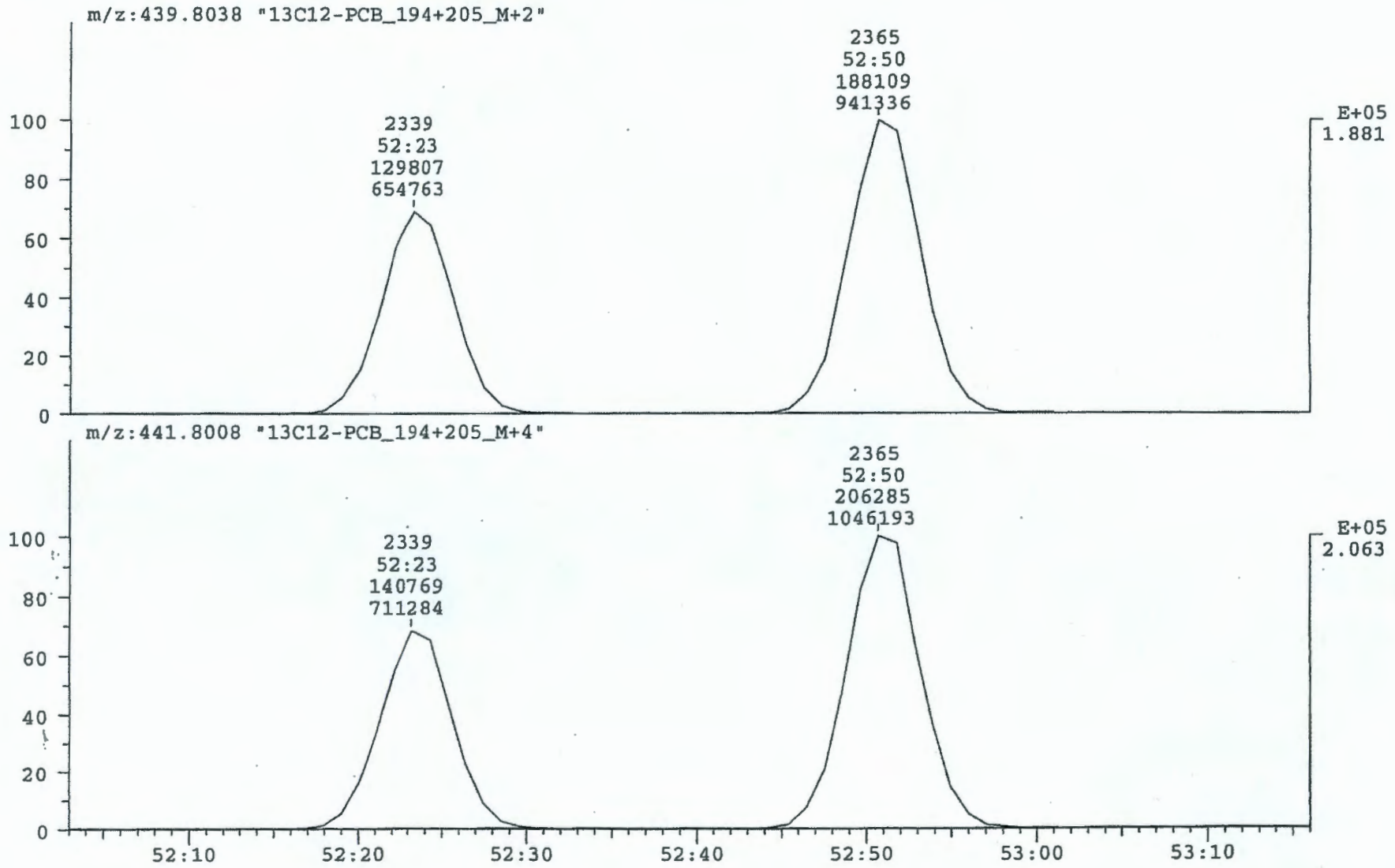


```
CHRO:  a07030752                                08-Mar-07   Elapse:  43:07      1817
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1782 > 1859           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

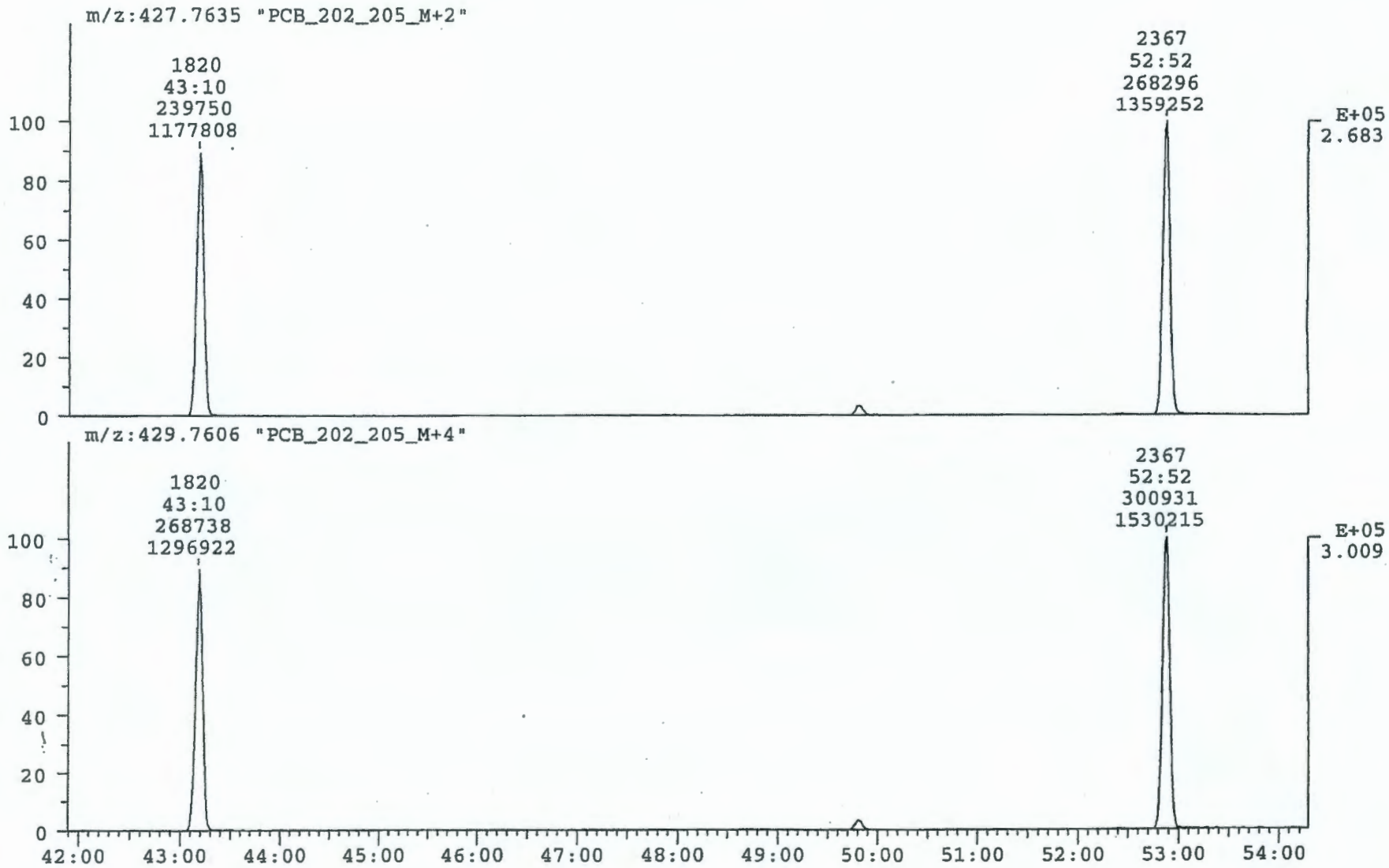


1995

```
CHRO:  a07030752                                08-Mar-07  Elapse:  52:39      2354
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  02:18:49   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2320 > 2389         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

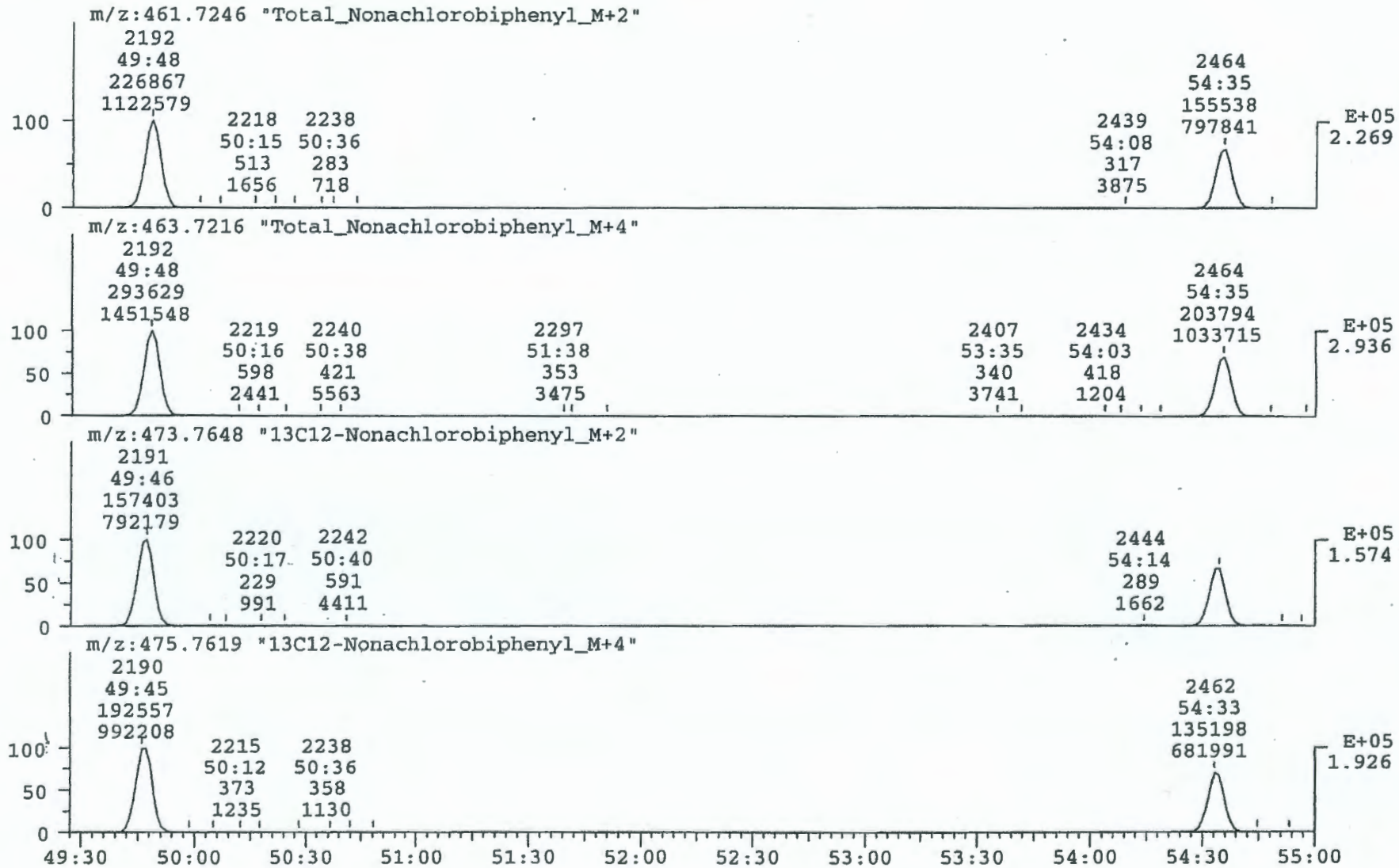


```
CHRO:  a07030752                                08-Mar-07   Elapse:  48:03      2097
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1747 > 2447           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

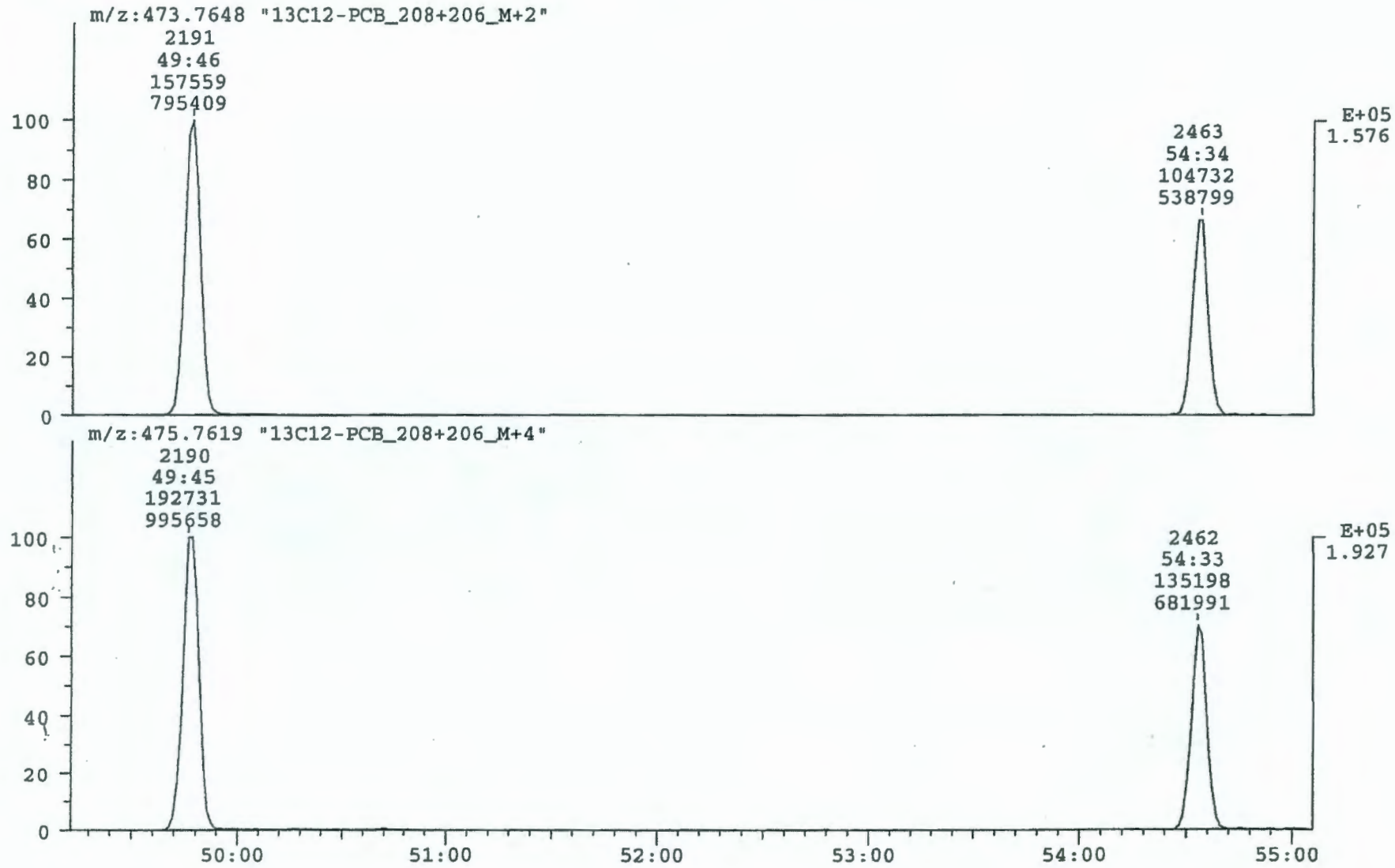


1997

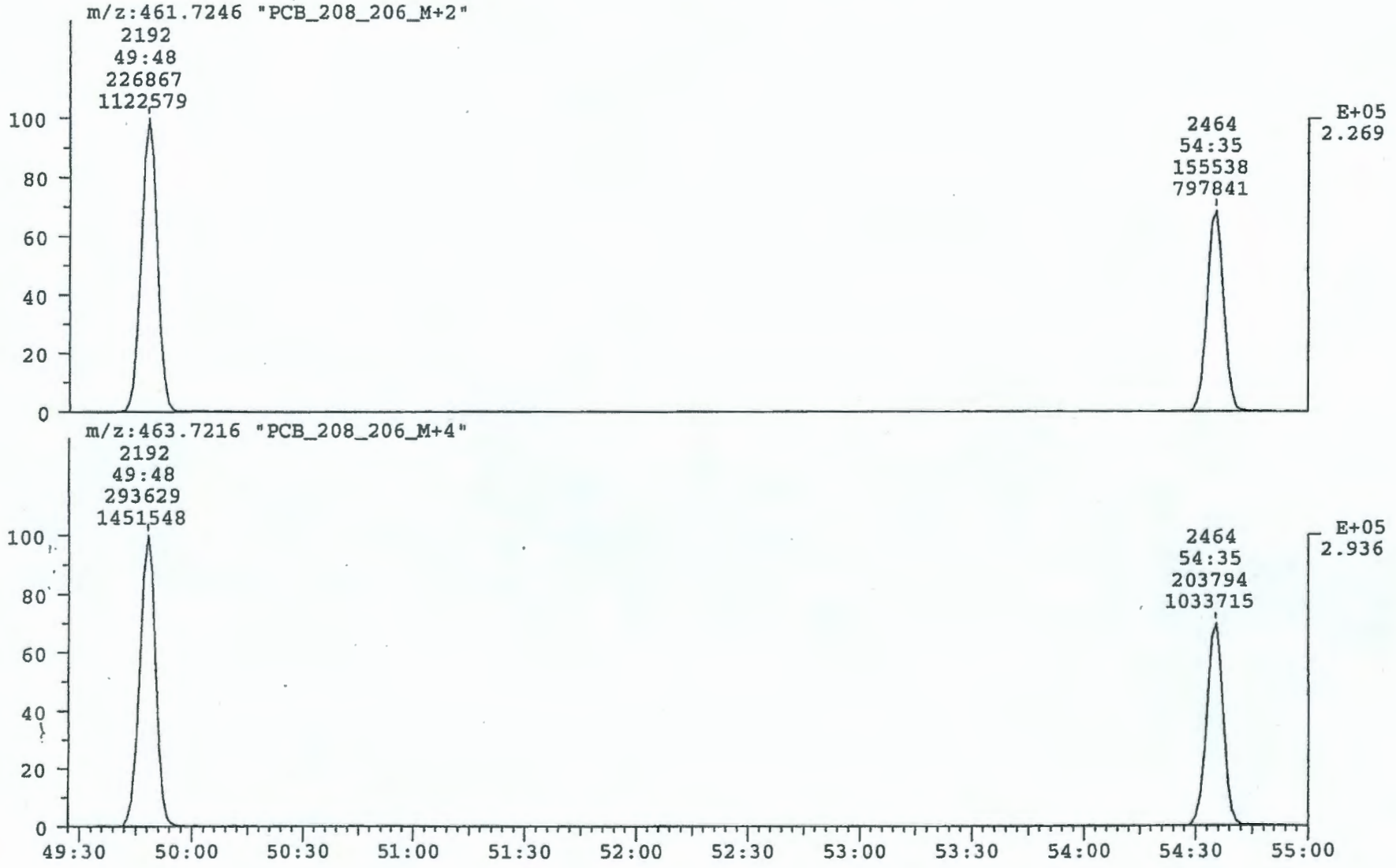
```
CHRO:  a07030752                                08-Mar-07   Elapse:  52:12      2329
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2172 > 2487           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030752                                08-Mar-07   Elapse:  52:11      2328
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   2163 > 2493            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

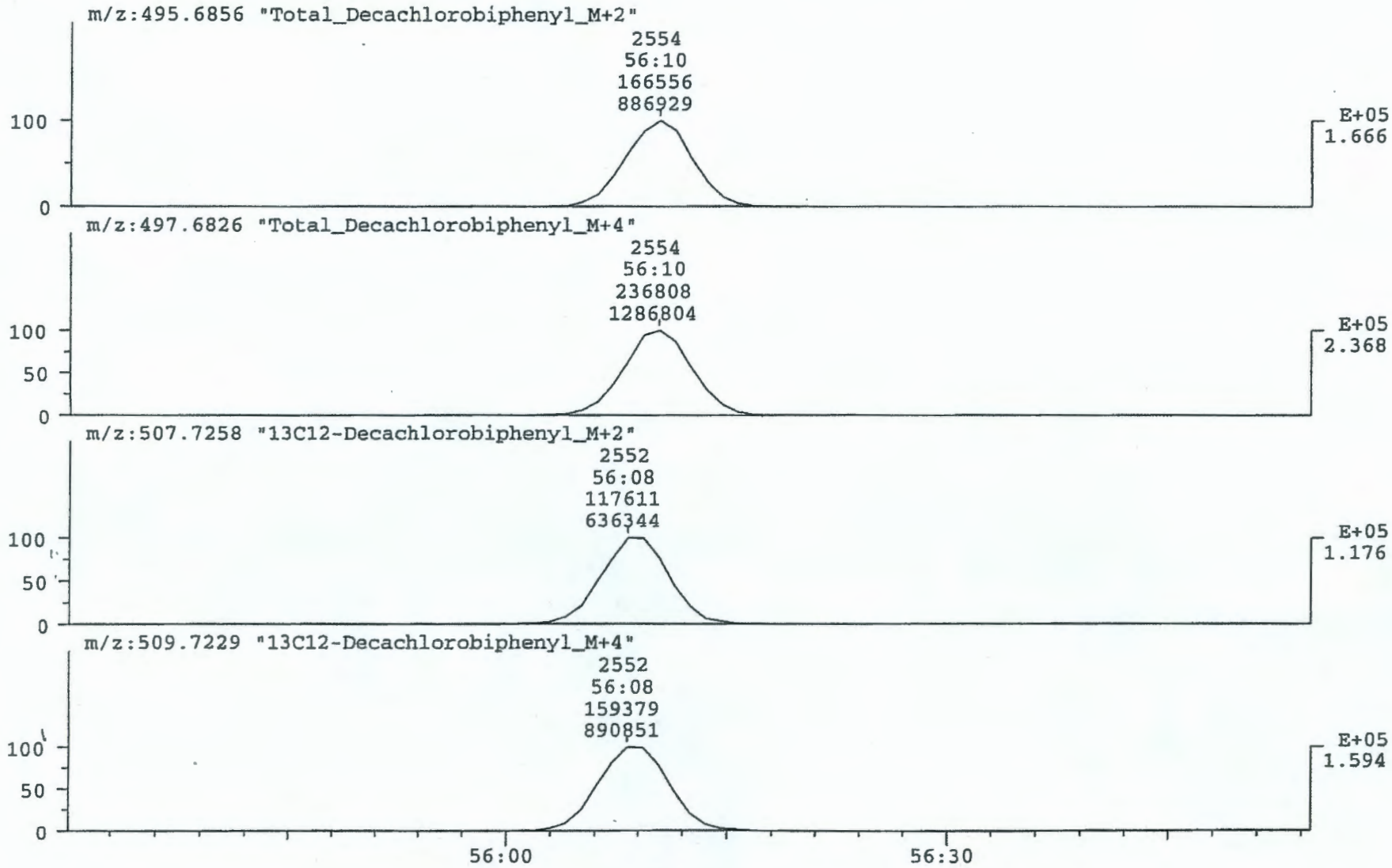


```
CHRO:  a07030752                                08-Mar-07   Elapse:  52:12      2329
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   2172 > 2487           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



2000

```
CHRO:  a07030752                              08-Mar-07   Elapse:  56:12      2556
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   2516 > 2596         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



2001

Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a07030752
Study: 1668 RT Mix5/Run2
Sample: WO=2990:75Mix5 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 7
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 10 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:01 min	14:03 min	36:04 min	1.00 sec
# 3	36:05 min	13:10 min	49:15 min	1.00 sec
# 4	49:16 min	7:44 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	1	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	1	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	1	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	1	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668n

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
- Purge time 1.5 min
- Purge flow 40.0 ml/min
- Gas saver is on
- Saver time 3.0 min
- Saver flow 15.0 ml/min

Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	252.0000
FVINLET	256.0000	FVSRC	831.0000	FWIN	0.7000
GCTC	202.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.0098	HVANAL	1304.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4769.2260	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2606.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.8600	TCURR	0.7031
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 02:18:49.2

Autosampler has injected sample from vial 7
MID Time Window 1: Resolution is 8226
MID Time Window 2: Resolution is 7911
MID Time Window 3: Resolution is 8165
MID Time Window 4: Resolution is 8803
Analysis stopped at: 08-Mar-07 03:15:52.2 (run time 57.03 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

2006

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030753.	Prep Date		SDG No	
Analysis ID	96253	Prep Exp Date		Date Received	
Analysis Date	03/08/07 07:27	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	170	153	68	61	1.11 *	/	
	PCB 1 (BZ)	12:13	00:00	0	1333911	421813	507238	158261	3.16	AVV/AVV	
	PCB 3 (BZ)	14:25	00:00	0	1278624	407021	424079	137441	3.14	ABV/AVV	
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	203	273	81	109	0.74 *	/	
	13C12-PCB 1	12:12	00:00	0	2404791	764300	1018478	324377	3.15	AVV/AVV	
	13C12-PCB 3	14:25	00:00	0	2410715	730117	782033	237483	3.30	ABV/AVV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	233	455	93	182	0.51 *	/	
	PCB 4 (BZ)	14:43	00:00	0	549614	353591	181965	116891	1.55	AVV/AVV	
	PCB 15 (BZ)	20:41	00:00	0	989997	630100	253560	159424	1.57	AVV/AVV	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	350	228	140	91	1.54	/	
	13C12-PCB 4	14:42	00:00	0	1037282	636624	352738	218311	1.63	AVV/ABV	
	13C12-PCB 9	16:39	00:00	0	1654679	1025060	504708	316046	1.61	ABV/ABV	
	13C12-PCB 8	17:32	00:00	0	1773810	1106573	501607	307638	1.60	AVV/AVV	
	13C12-PCB 15	20:40	00:00	0	1788971	1122389	463719	288257	1.59	ABV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	163	150	65	60	1.08	/	
	PCB 19 (BZ)	17:54	00:00	0	361395	334716	102997	91940	1.08	ABB/ABV	
	PCB 16 (BZ)	20:40	00:00	0	318268	307065	82944	82372	1.04	ABV/ABV	D
	PCB 37 (BZ)	27:47	00:00	0	820823	788173	188098	175672	1.04	ABV/ABV	
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	560	295	224	118	1.90 *	/	
	13C12-PCB 19	17:52	00:00	0	610657	571396	165175	161304	1.07	AVV/AVV	
	13C12-PCB 32	21:08	00:00	0	1090927	1003788	269341	253212	1.09	AVV/AVV	
	13C12-PCB 31	23:23	00:00	0	1655629	1558345	399119	381479	1.06	ABV/ABV	
	13C12-PCB 28	23:41	00:00	0	1554541	1486567	365211	344356	1.05	AVV/AVV	
	13C12-PCB 37	27:46	00:00	0	1492263	1417836	323212	302355	1.05	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	150	163	60	65	0.92 *	/	
	PCB 54 (BZ)	21:02	00:00	0	639884	810881	159958	209541	0.79	ABV/ABV	
	PCB 43 (BZ)	25:47	00:00	0	714628	913321	167720	219857	0.78	ABV/ABV	
	PCB 44 (BZ)	26:35	00:00	0	757065	969813	169960	216953	0.78	ABV/ABV	M
	PCB 74 (BZ)	30:22	00:00	0	1207172	1574736	266831	347340	0.77	AVV/AVV	M
	PCB 56 (BZ)	31:24	00:00	0	1137036	1449472	247093	312471	0.78	AVV/ABV	D
	PCB 77 (BZ)	35:06	00:00	0	1150558	1482942	244464	311103	0.78	ABV/ABV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	150	140	60	56	1.07 *	/	
	13C12-PCB 54	21:01	00:00	0	536832	668892	138544	177112	0.80	ABV/ABV	
	13C12-PCB 52	25:32	00:00	0	773014	980016	186919	238044	0.79	ABV/ABV	
	13C12-PCB 79	33:27	00:00	0	1140566	1446967	244907	311143	0.79	ABV/ABV	D
	13C12-PCB 81	34:30	00:00	0	1040874	1292116	216193	273226	0.81	ABV/ABV	D

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside center limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

2007

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030753.	Prep Date		SDG No	
Analysis ID	96253	Prep Exp Date		Date Received	
Analysis Date	03/08/07 07:27	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	13C12-PCB 77	35:05	00:00	0	1086503	1331433	223488	268849	0.82	AVV/ABB	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	170	145	68	58	1.17 *	/	
	PCB 104 (BZ)	26:29	00:00	0	1329450	824968	310956	195233	1.61	ABV/ABV	
	PCB 98 (BZ)	29:54	00:00	0	874360	542217	195874	119919	1.61	ABV/ABV	D
	PCB 125 (BZ)	33:35	00:00	0	1273646	802579	275164	172355	1.59	AVV/ABV	D
	PCB 110 (BZ)	34:24	00:00	0	1336658	837086	284256	174543	1.60	ABV/AVV	D
	PCB 126 (BZ)	41:39	00:00	0	1525528	989467	316421	208661	1.54	ABV/ABV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	170	165	68	66	1.03 *	/	
	13C12-PCB 104	26:28	00:00	0	1208250	761854	280277	172665	1.59	ABV/ABV	D
	13C12-PCB 95	29:30	00:00	0	907211	559529	197716	122357	1.62	ABV/ABV	D
	13C12-PCB 101	32:21	00:00	0	905596	584224	198129	125788	1.55	AVV/ABV	
	13C12-PCB 111	34:58	00:00	0	1189828	746312	260478	157118	1.59	AVV/ABV	
	13C12-PCB 123	37:00	00:00	0	1432538	917808	298918	197501	1.56	ABV/ABV	D
	13C12-PCB 118	37:19	00:00	0	1527264	965798	320520	202450	1.58	AVV/AVV	D
	13C12-PCB 114	37:52	00:00	0	1503299	922503	305931	189944	1.63	AVV/AVV	D
	13C12-PCB 105	38:34	00:00	0	1461633	896563	305280	188335	1.63	ABV/ABB	D
	13C12-PCB 127	39:56	00:00	0	1514380	963151	311615	199022	1.57	ABV/AVV	
	13C12-PCB 126	41:38	00:00	0	1542194	972911	318624	194313	1.59	ABV/AVV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	145	138	58	55	1.05	/	
	PCB 155 (BZ)	32:03	00:00	0	1107470	849018	234834	183431	1.30	ABV/ABV	
	PCB 138 (BZ)	40:28	00:00	0	971271	778199	204751	162922	1.25	ABV/ABV	
	PCB 169 (BZ)	47:50	00:00	0	1315054	1039290	259010	201454	1.27	ABV/ABV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	180	173	72	69	1.04 *	/	
	13C12-PCB 155	32:02	00:00	0	1012565	794566	217482	166540	1.27	ABV/ABV	D
	13C12-PCB 153	39:08	00:00	0	1015492	807630	212865	169819	1.26	ABV/ABV	D
	13C12-PCB 138	40:27	00:00	0	977834	769475	200751	155817	1.27	ABV/ABV	
	13C12-PCB 167	43:23	00:00	0	1268511	1000779	265252	211127	1.27	AVV/AVV	
	13C12-PCB 156	44:34	00:00	0	1221505	970684	247914	194388	1.26	ABV/ABV	D
	13C12-PCB 157	44:38	00:00	0	1265359	983866	280457	214968	1.29	AVB/AVB	M
	13C12-PCB 169	47:48	00:00	0	1244410	964615	250709	196315	1.29	ABV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	138	120	55	48	1.15	/	
	PCB 188 (BZ)	37:47	00:00	0	1061086	1013324	226312	205095	1.05	ABV/ABV	
	PCB 189 (BZ)	50:19	00:00	0	1183068	1131270	239974	222234	1.05	ABV/AVV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	153	148	61	59	1.03	/	
	13C12-PCB 188	37:45	00:00	0	1062855	1005882	222663	215214	1.06	ABV/ABV	D
	13C12-PCB 178	40:50	00:00	0	667113	626116	143866	132675	1.07	ABV/ABV	
	13C12-PCB 180	45:54	00:00	0	860294	790221	183495	166484	1.09	ABV/ABV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cemax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

2008

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030753.	Prep Date		SDG No	
Analysis ID	96253	Prep Exp Date		Date Received	
Analysis Date	03/08/07 07:27	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

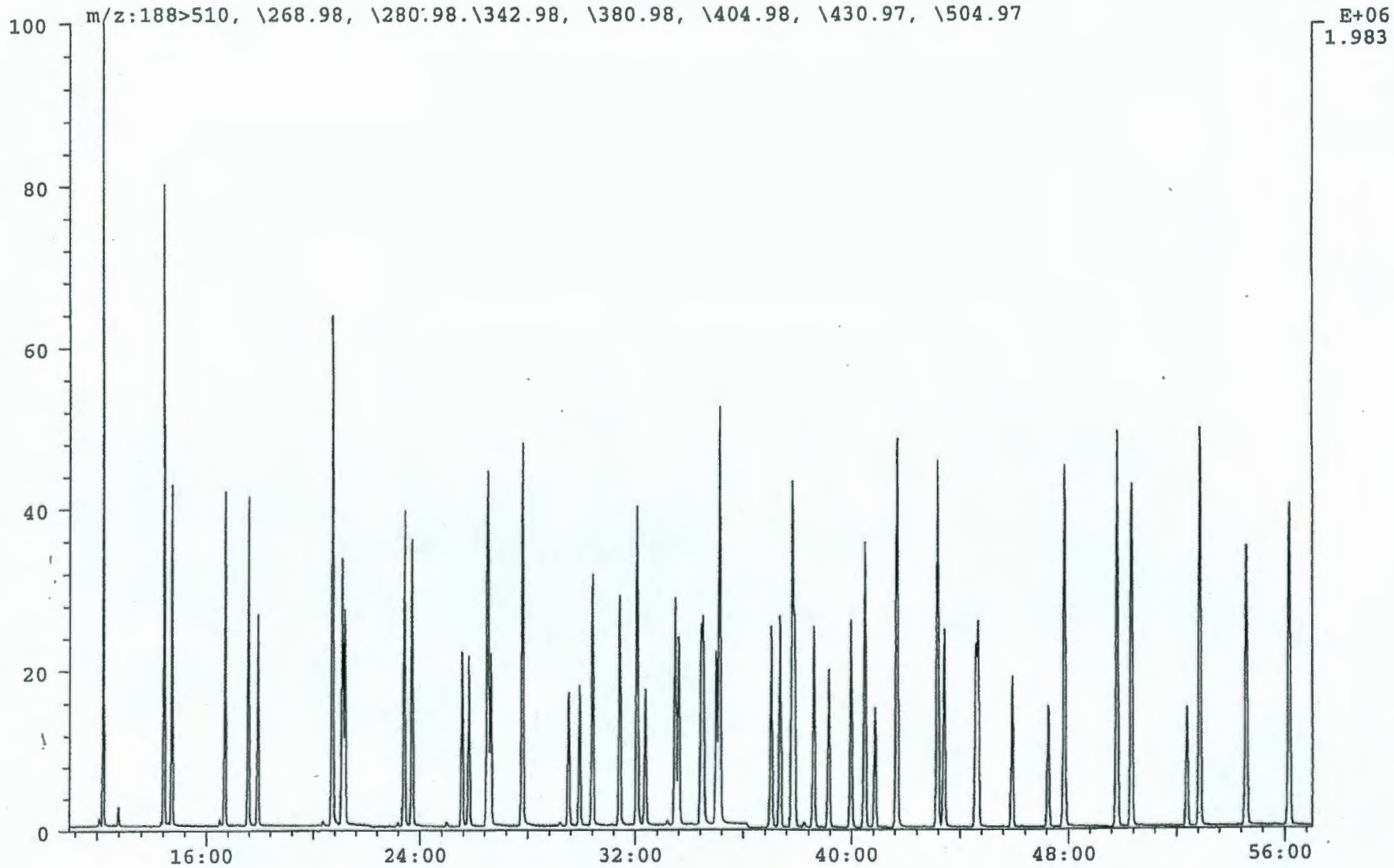
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	13C12-PCB 170	47:13	00:00	0	713224	686411	143136	137262	1.04	AVV/AVV	
	13C12-PCB 189	50:17	00:00	0	1158204	1119000	229574	217821	1.04	ABV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	135	145	54	58	0.93	/	
	PCB 202 (BZ)	43:08	00:00	0	1194993	1328023	246005	272668	0.90	ABV/ABV	
	PCB 205 (BZ)	52:51	00:00	0	1413416	1556878	289182	312099	0.91	ABV/ABV	
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	115	248	46	99	0.46 *	/	
	13C12-PCB 202	43:07	00:00	0	823932	894188	166847	177943	0.92	ABV/ABV	D
	13C12-PCB 194	52:22	00:00	0	670875	724937	132237	148531	0.93	ABV/ABB	
	13C12-PCB 205	52:50	00:00	0	967386	1083792	187713	215803	0.89	AVV/ABV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	150	213	60	85	0.71	/	
	PCB 208 (BZ)	49:46	00:00	0	1160266	1488865	237208	301319	0.78	ABV/ABV	
	PCB 206 (BZ)	54:33	00:00	0	833923	1051337	168086	214210	0.79	ABV/AVV	
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	160	170	64	68	0.94 *	/	
	13C12-PCB 208	49:45	00:00	0	817714	1032645	161193	211976	0.79	AVV/AVV	
	13C12-PCB 206	54:32	00:00	0	557175	698073	108113	133423	0.80	AVV/ABV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	168	133	67	53	1.26 *	/	
	PCB 209 (BZ)	56:08	00:00	0	911466	1308569	171627	245811	0.70	ABV/ABV	
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	133	158	53	63	0.84 *	/	
	13C12-PCB 209	56:06	00:00	0	656445	919378	120162	170230	0.71	ABV/ABV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

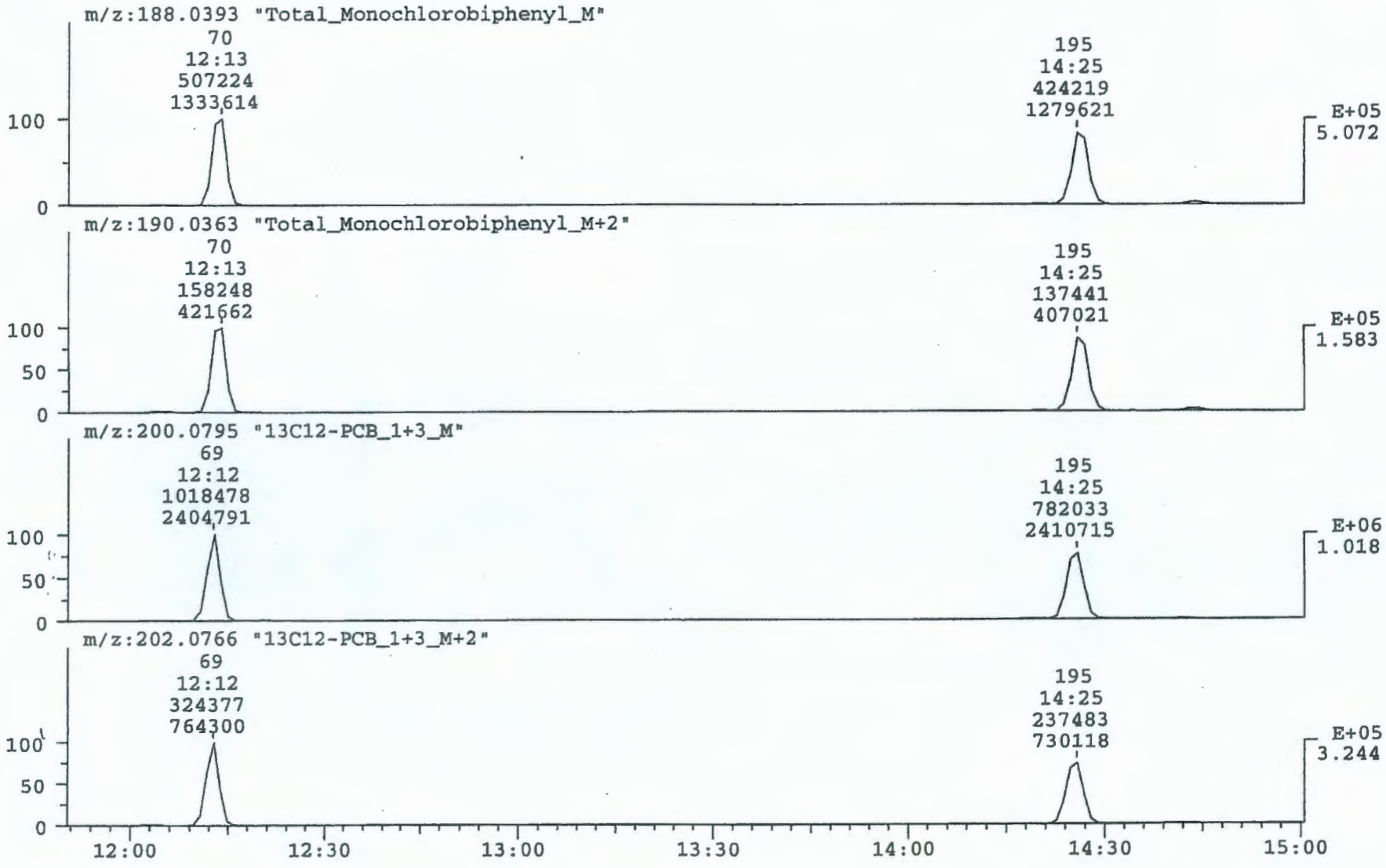
Int DCG 3-19-07-
calc DCG 3-19-07
QC BJN 3/19/07

CHRO: a07030753 08-Mar-07 Elapse: 56:13 2556
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 2 > 2601 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



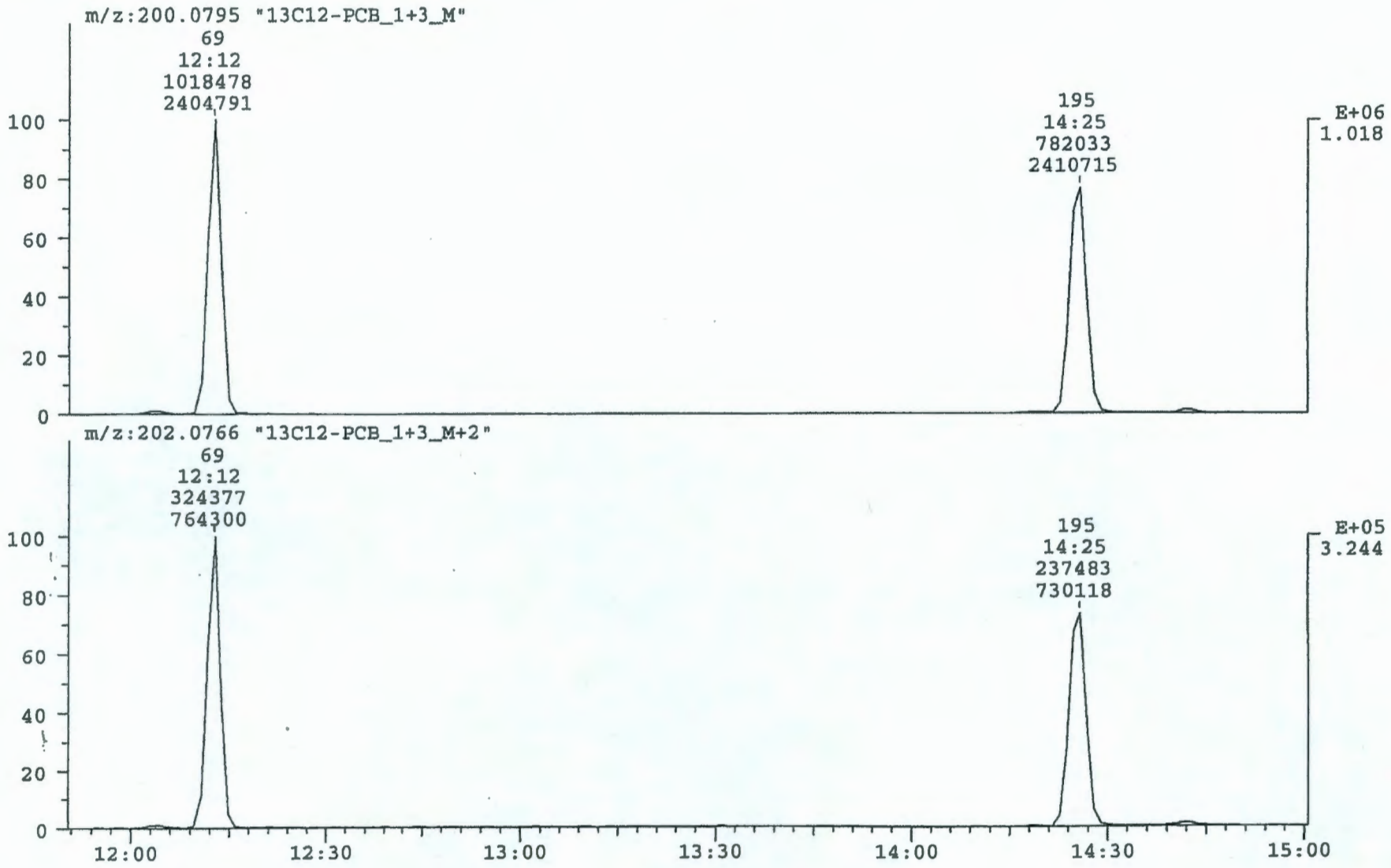
2009

```
CHRO:  a07030753                                08-Mar-07   Elapse:  56:12      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



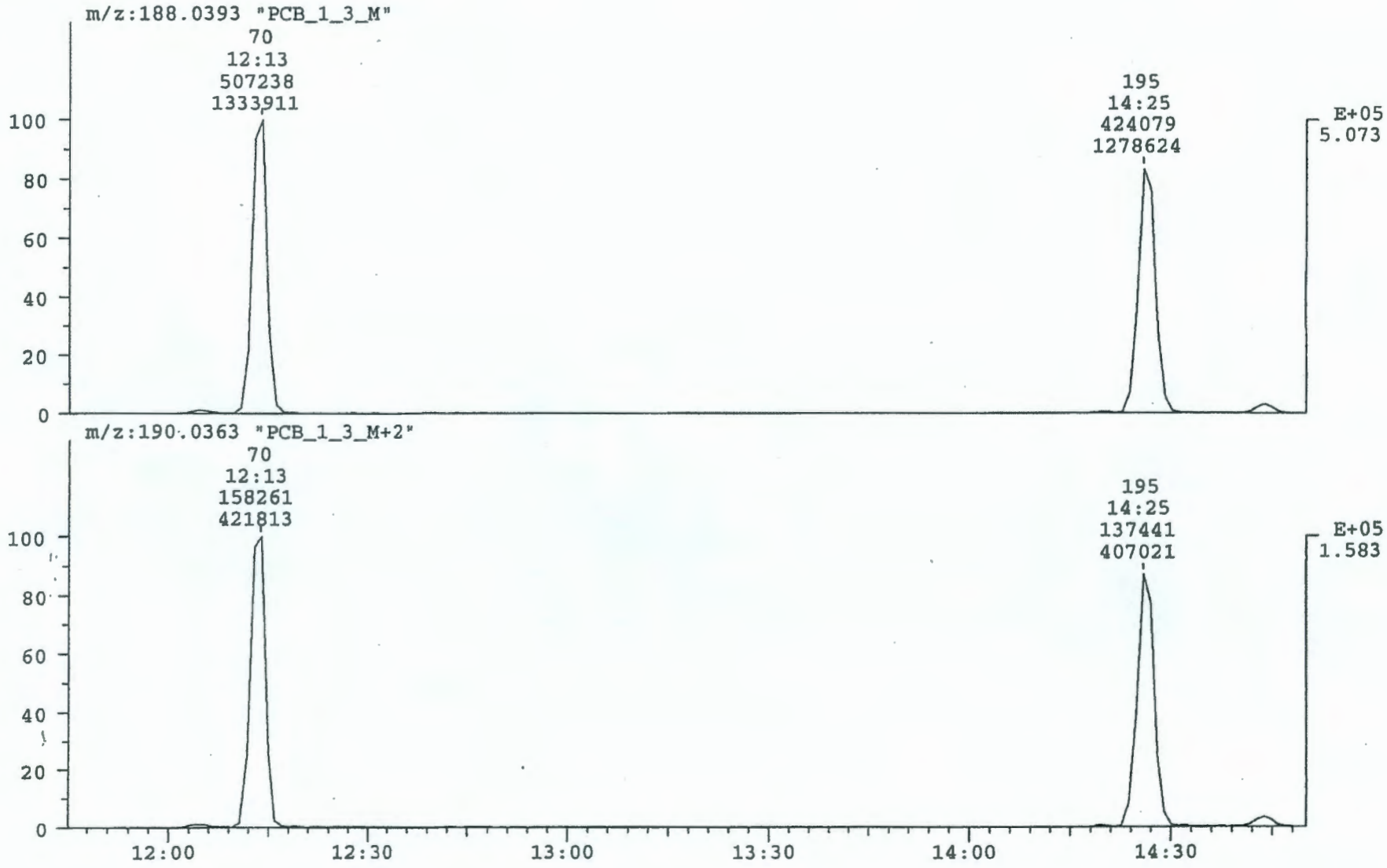
2010

```
CHRO:  a07030753                                08-Mar-07  Elapse:  13:25.5     138
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   48 > 228            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



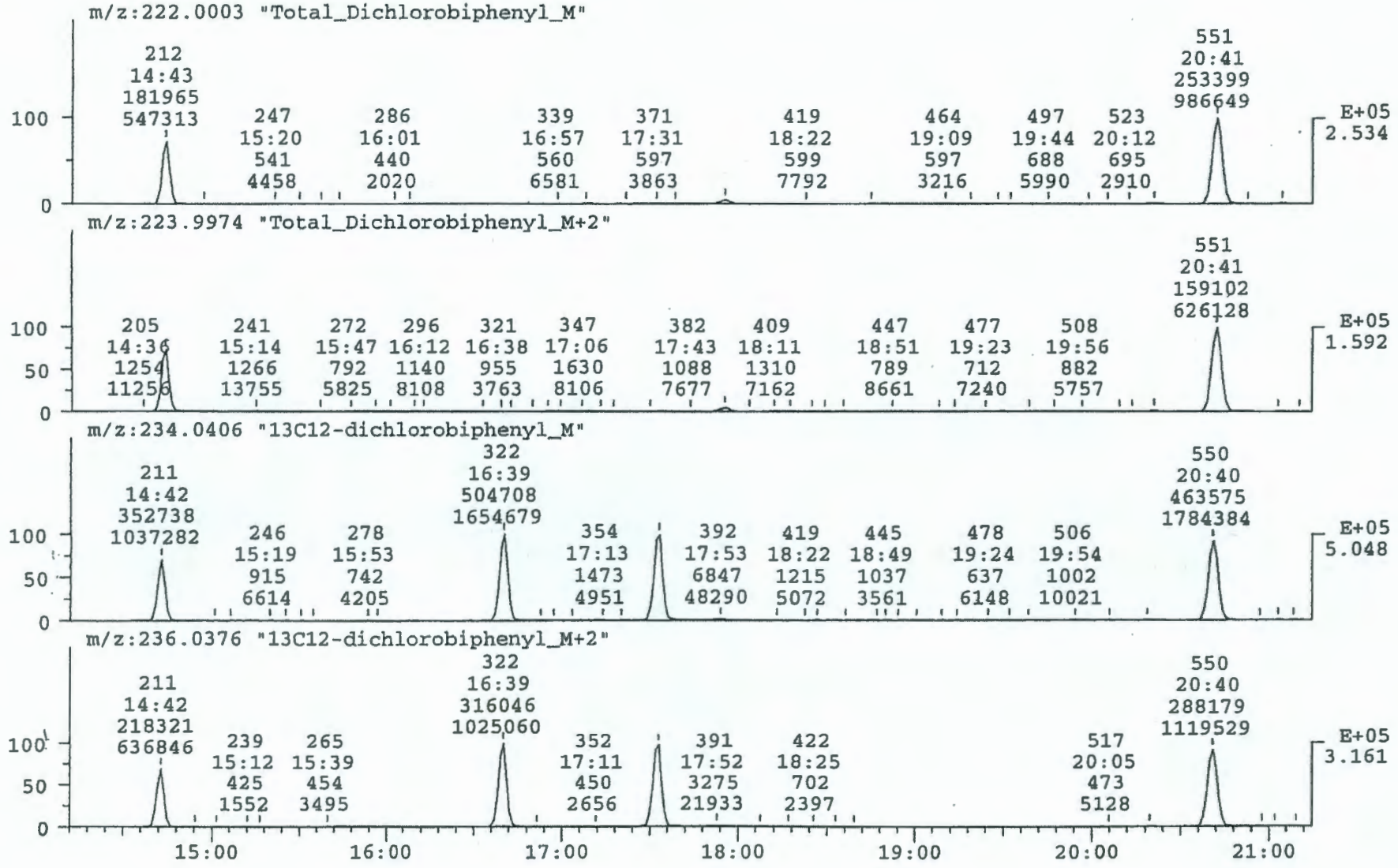
2011

```
CHRO:  a07030753                                08-Mar-07   Elapse:  13:25.5     138
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   43 > 218              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



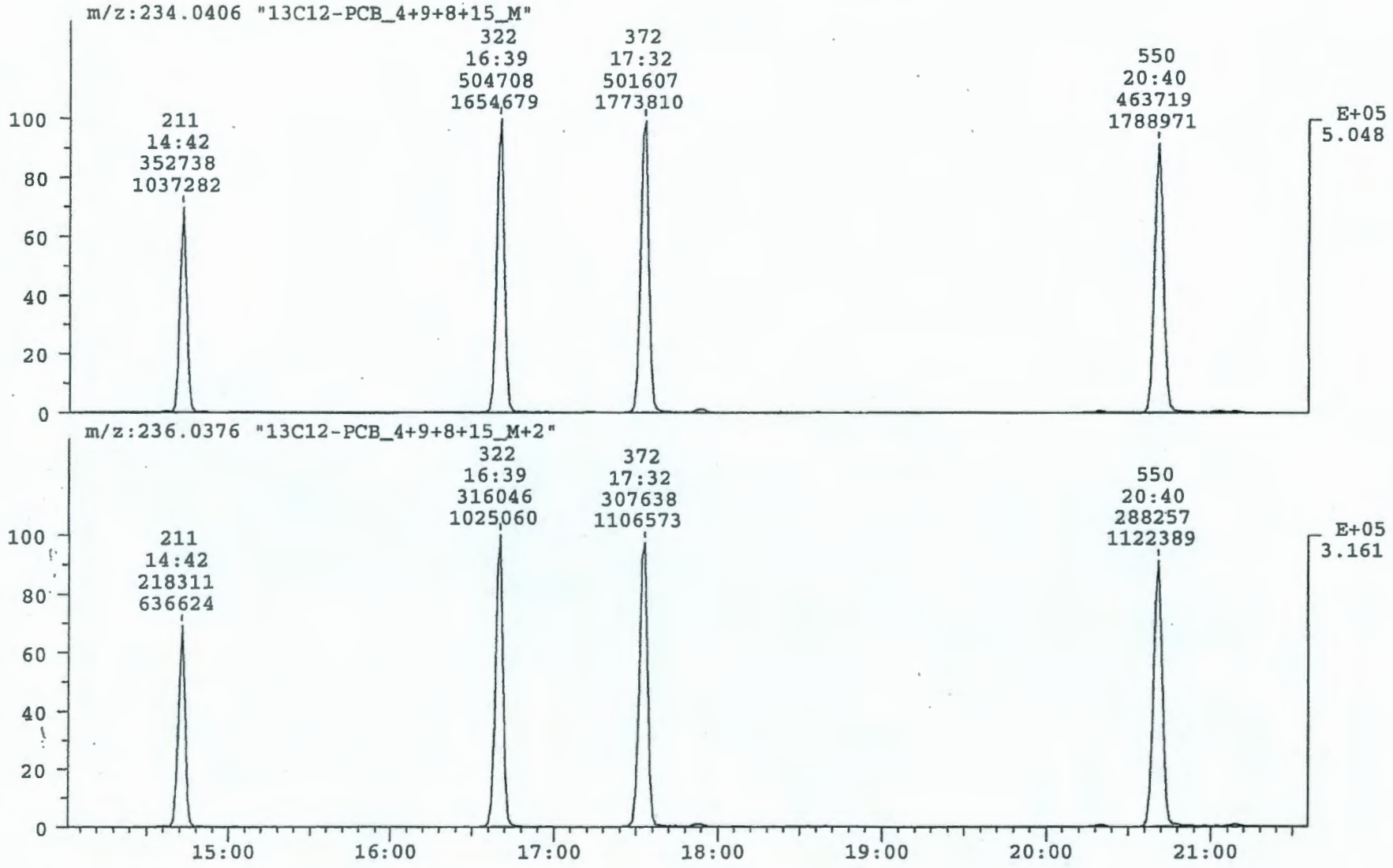
2012

```
CHRO:  a07030753                                08-Mar-07   Elapse:  17:43.3     382
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   182 > 582             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



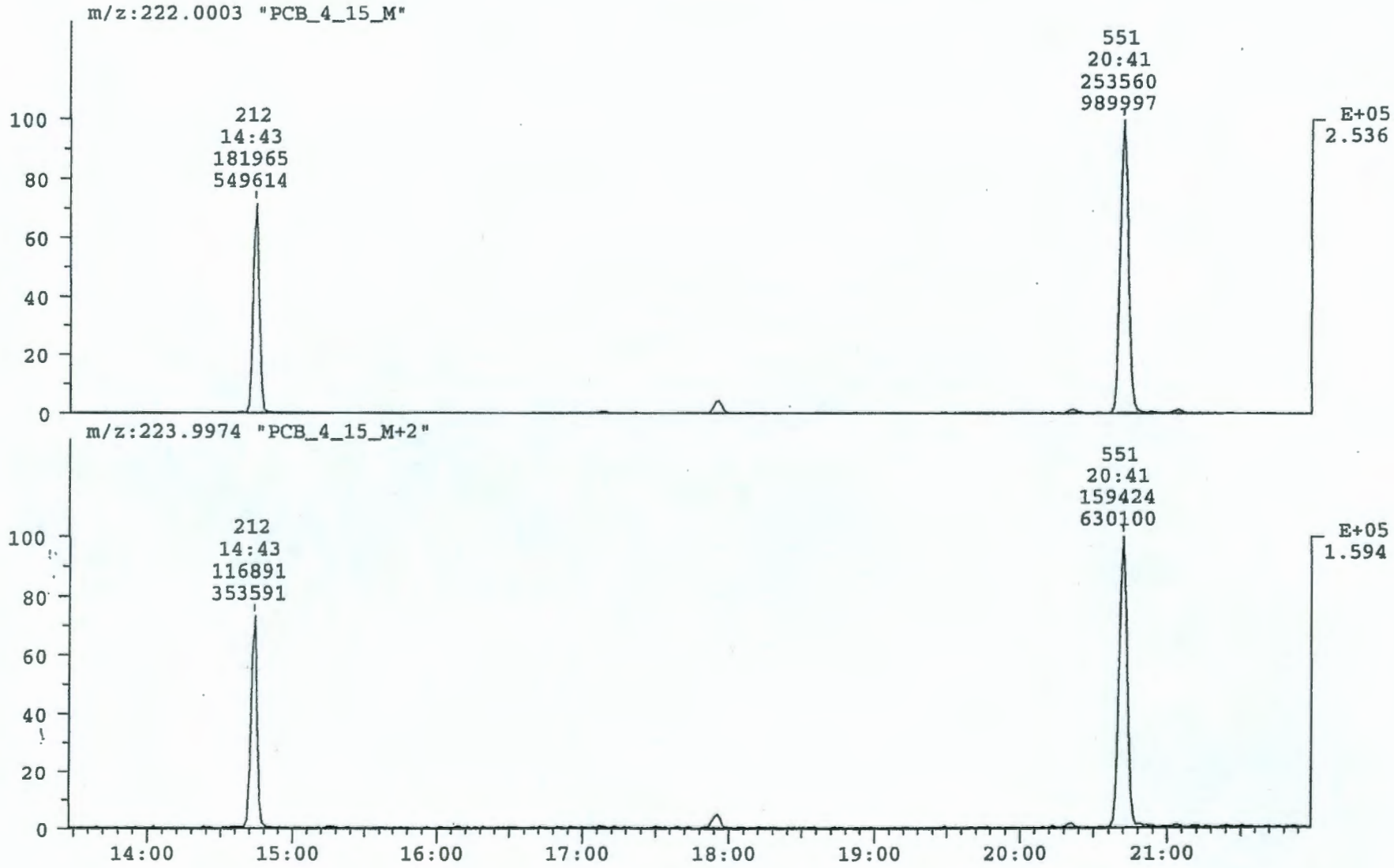
2013

```
CHRO:  a07030753                                08-Mar-07   Elapse:  17:43.3      382
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   172 > 602             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



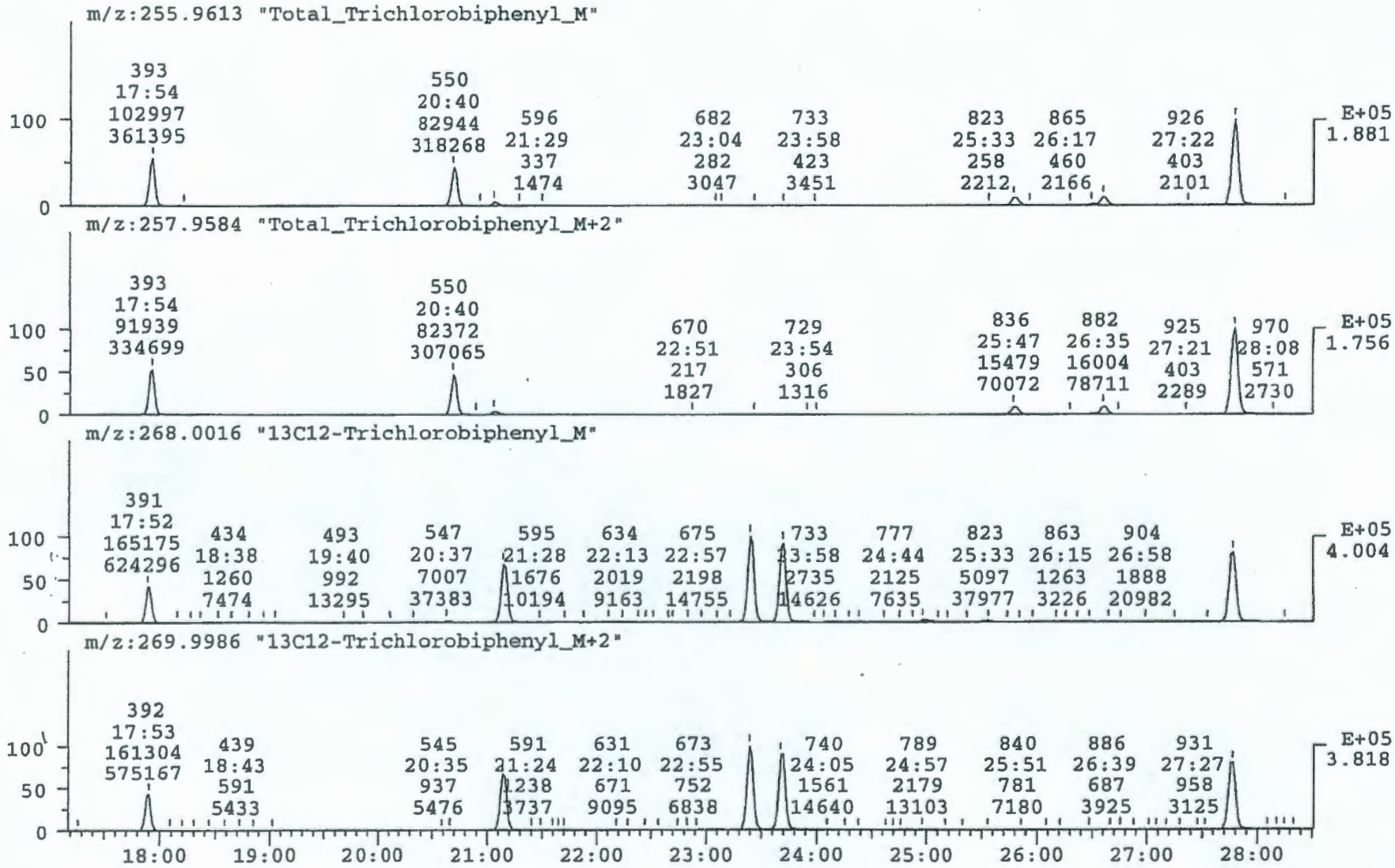
2014

```
CHRO:  a07030753                                08-Mar-07   Elapse:  17:43.3      382
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   140 > 624             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



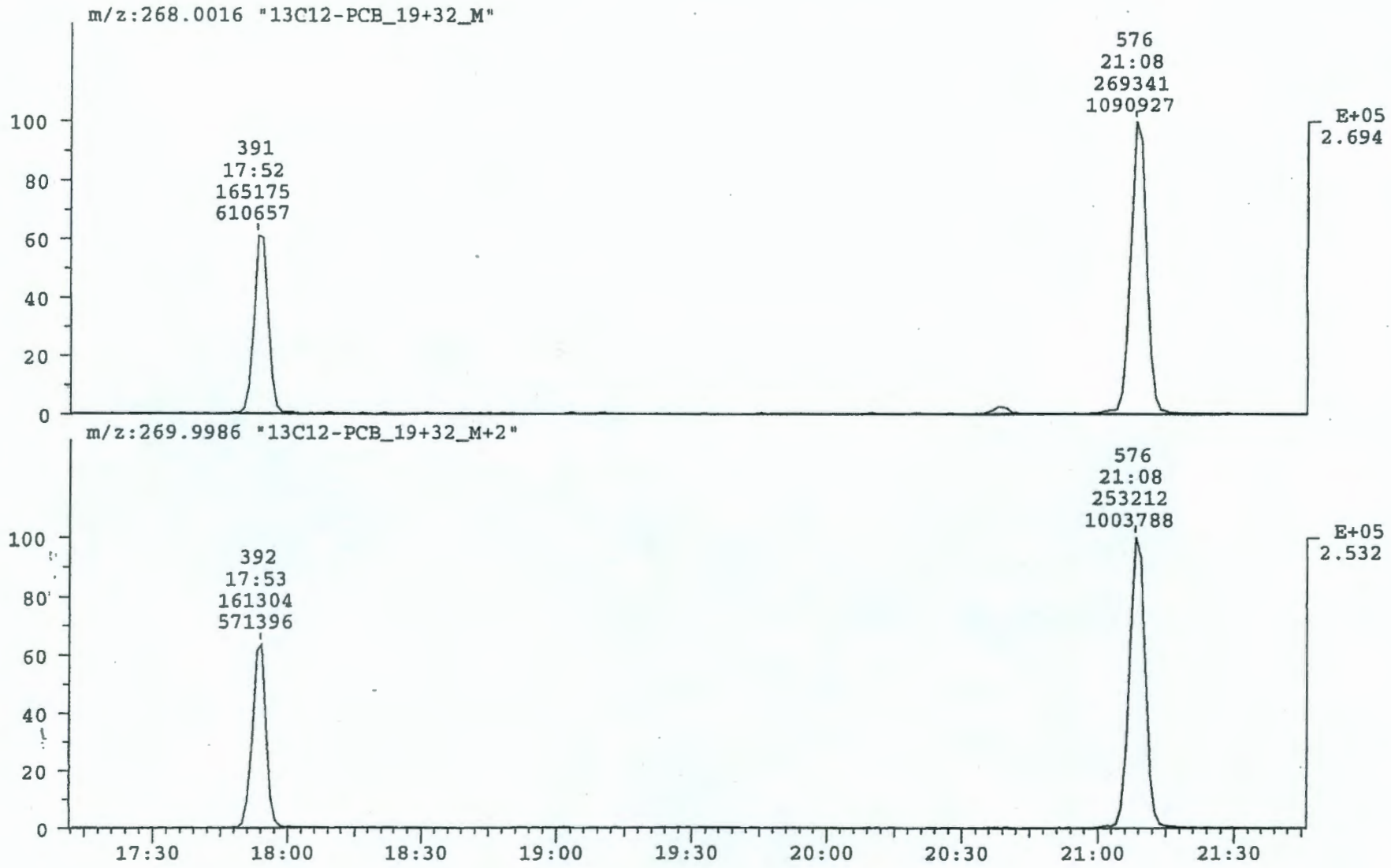
2015

CHRO: a07030753 08-Mar-07 Elapse: 22:52.9 671
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



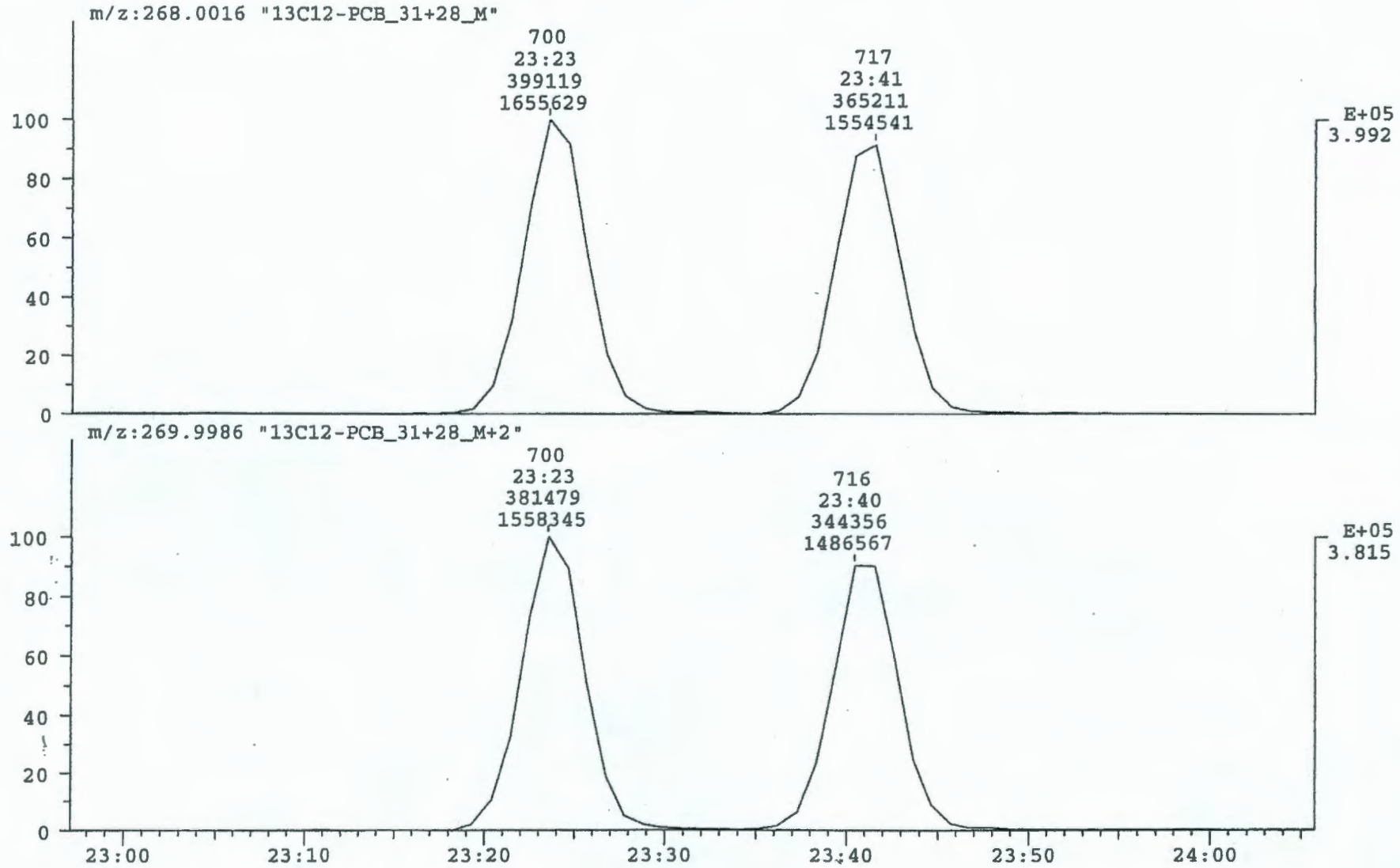
2016

```
CHRO:  a07030753                                08-Mar-07   Elapse:  19:18.3      472
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   352 > 612             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



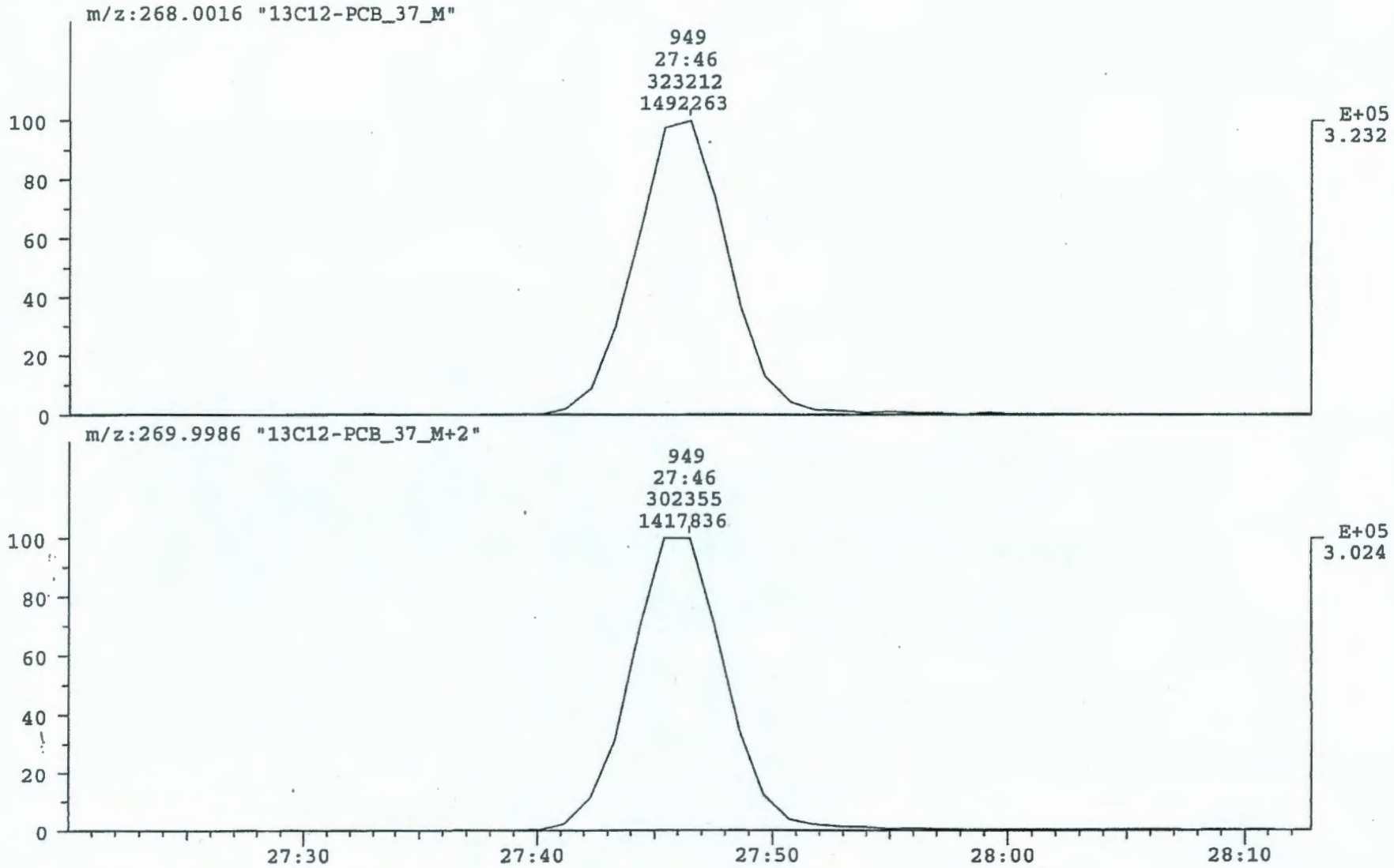
2017

```
CHRO:  a07030753                                08-Mar-07   Elapse:  23:23.5      700
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   675 > 740             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



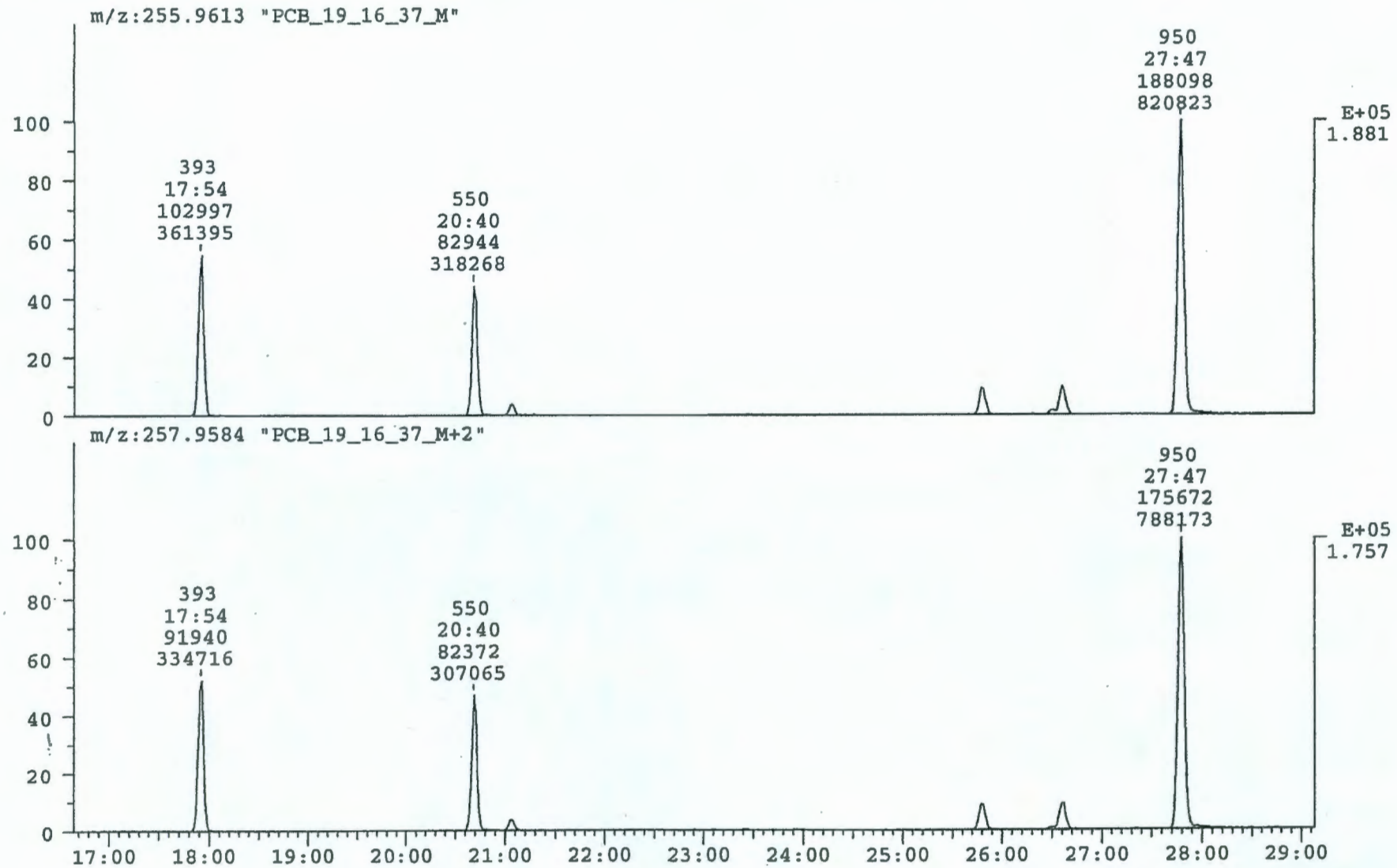
2018

```
CHRO:  a07030753                                08-Mar-07   Elapse:  27:46.4      949
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   924 > 974             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



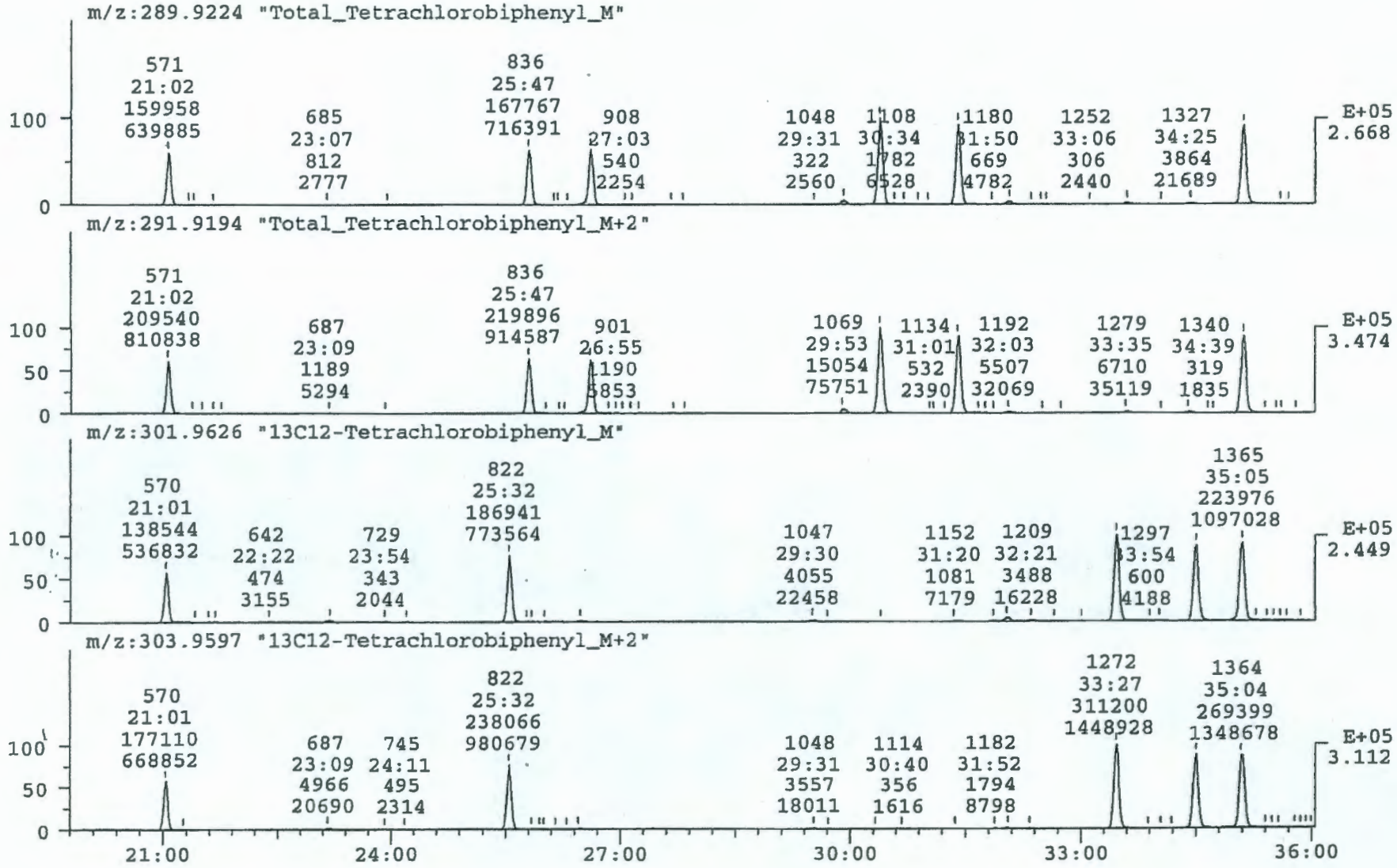
2019

```
CHRO:  a07030753                                08-Mar-07   Elapse:  22:52.9      671
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   321 > 1026            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



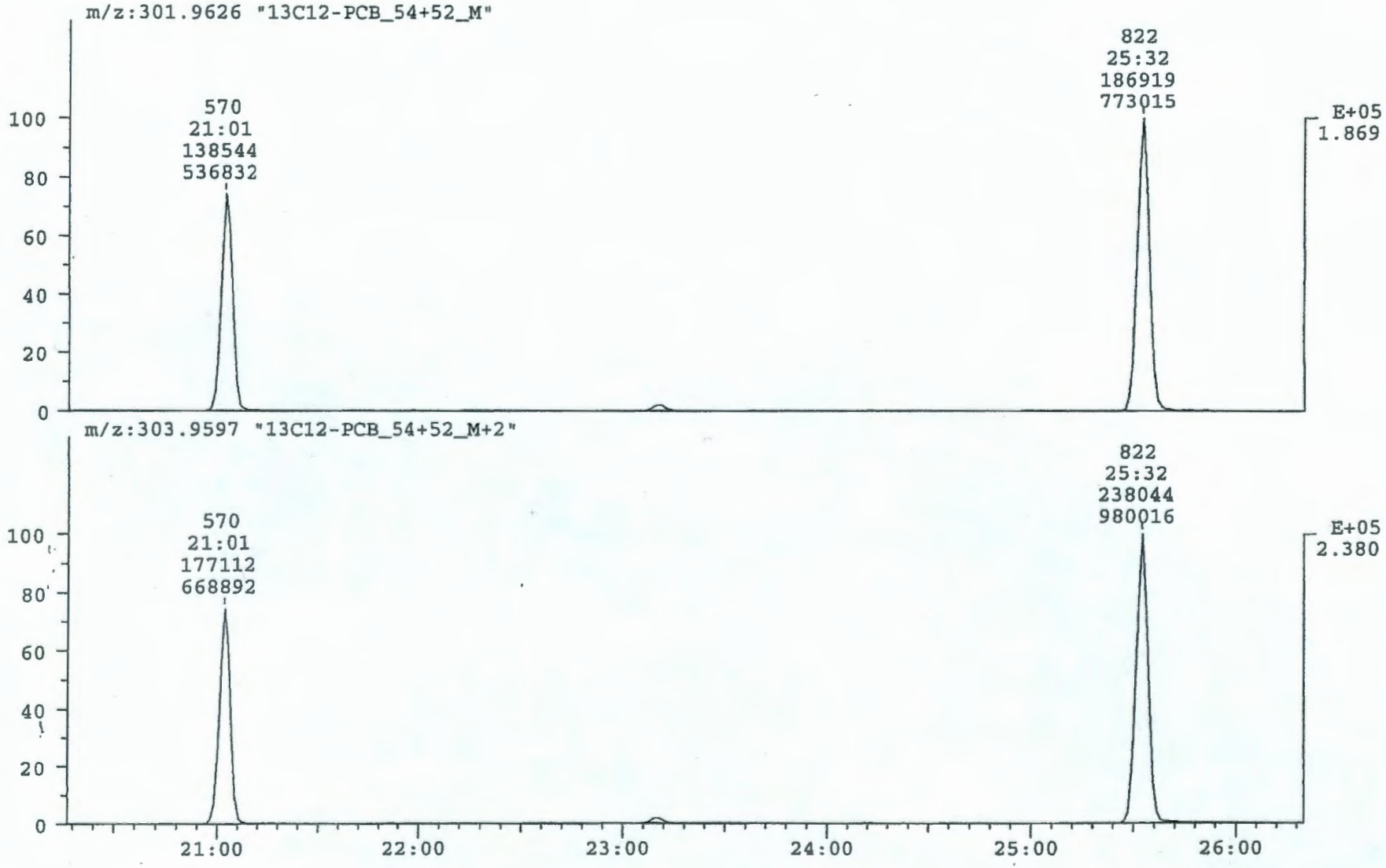
2020

CHRO: a07030753 08-Mar-07 Elapse: 27:54.9 957
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 500 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



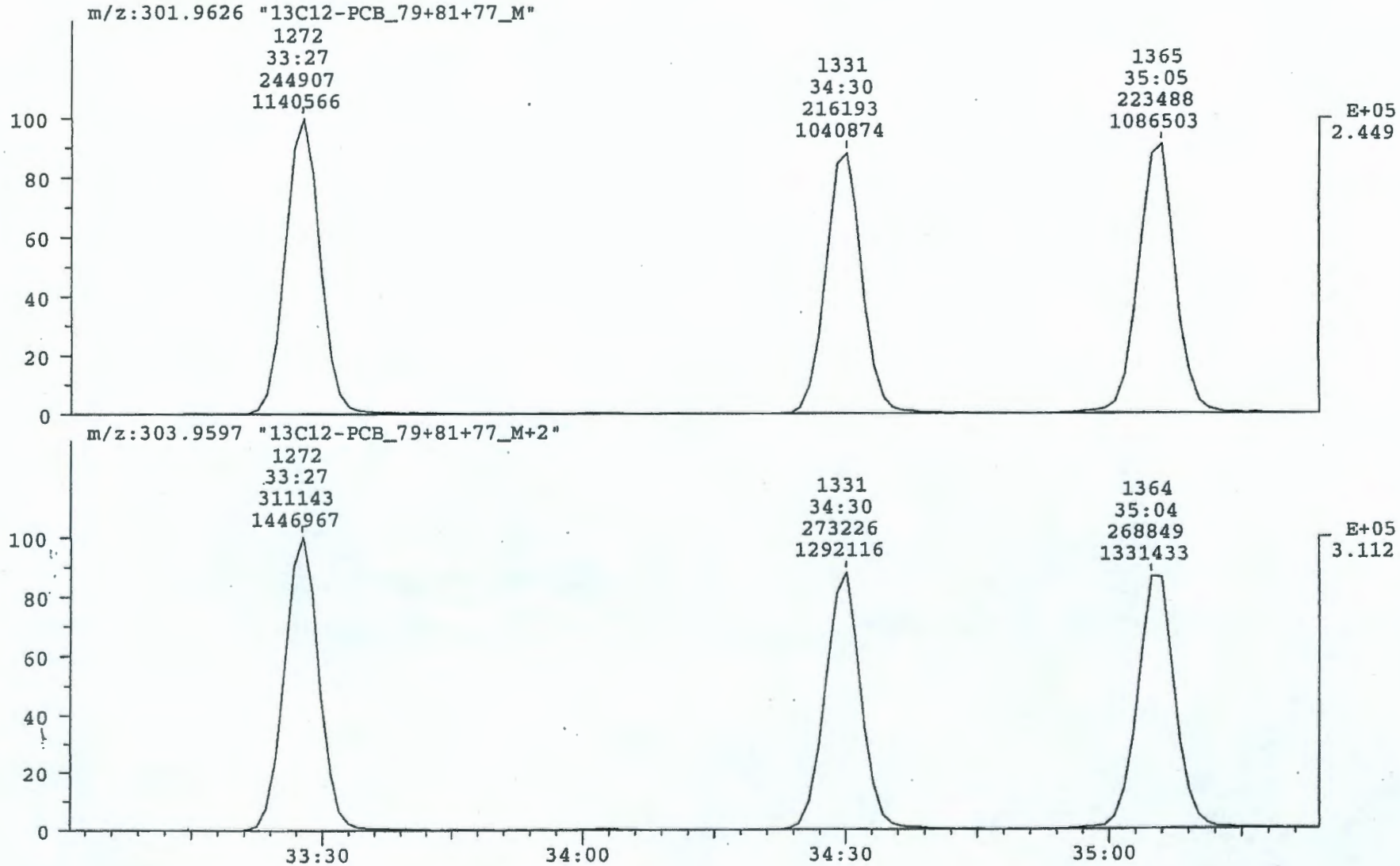
2021

```
CHRO:  a07030753                                08-Mar-07   Elapse:  23:20.4      697
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



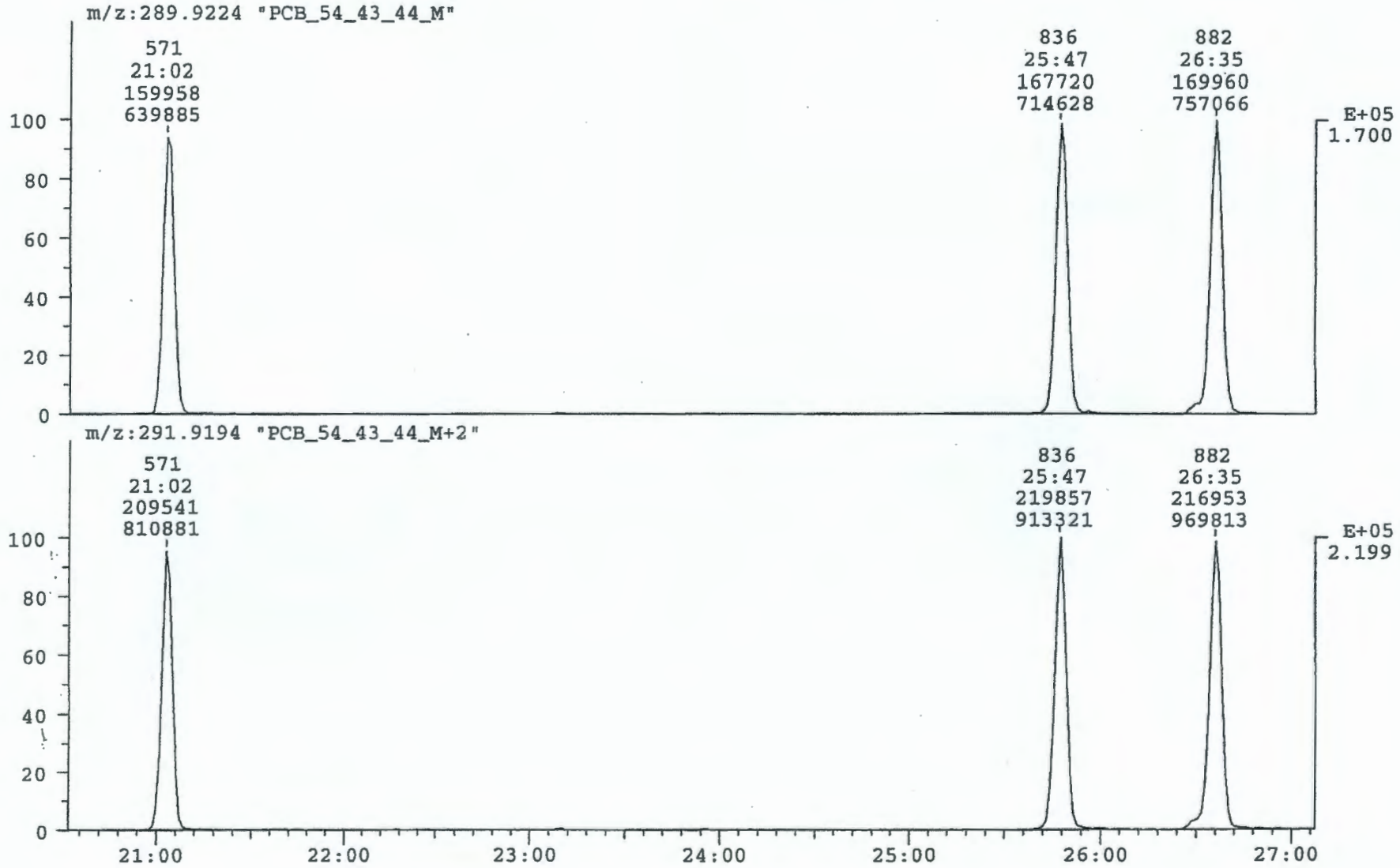
2022

```
CHRO:  a07030753                                08-Mar-07   Elapse:  34:15      1317
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1247 > 1382           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



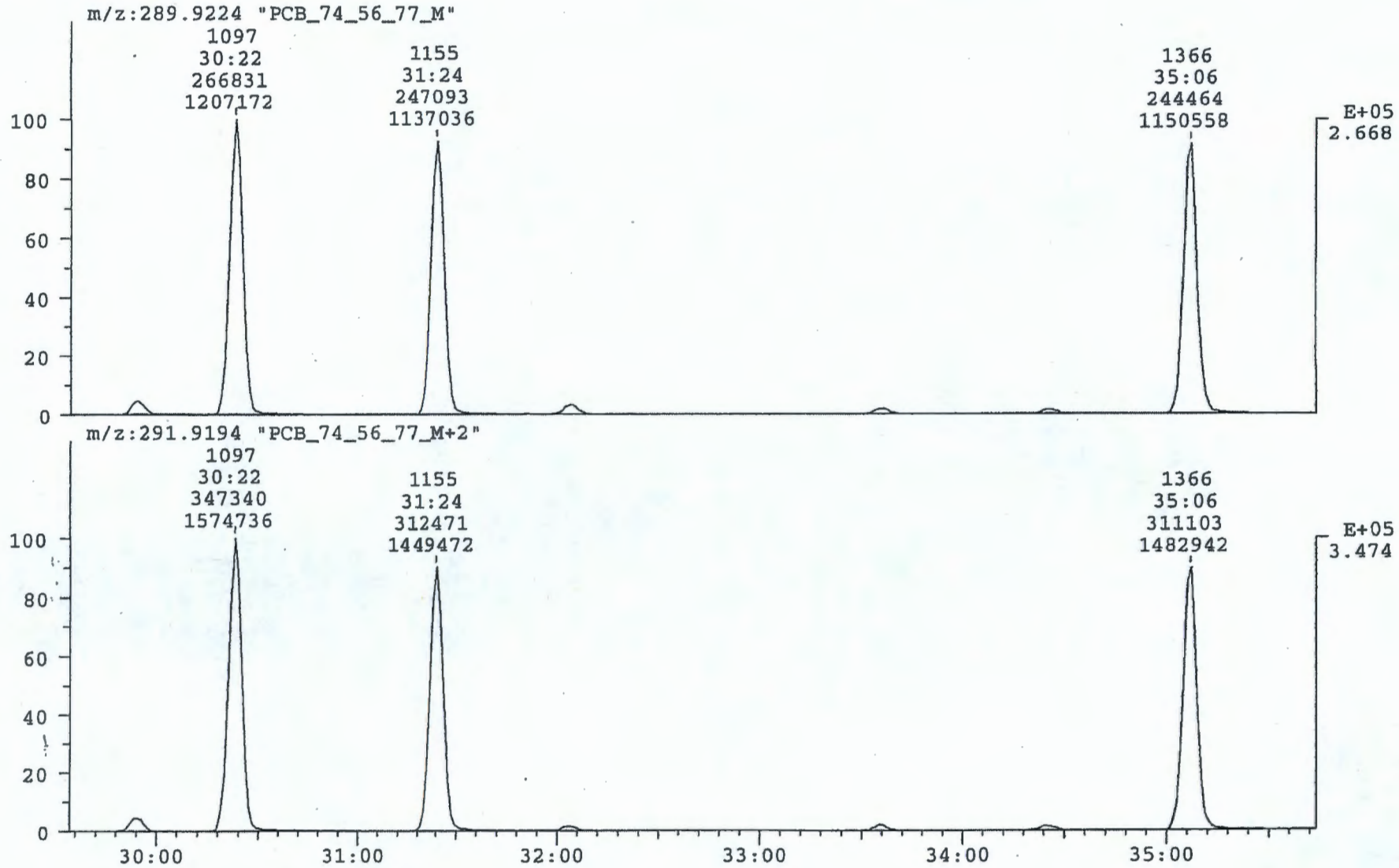
2023

```
CHRO:  a07030753                                08-Mar-07   Elapse:  23:52.1      727
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   542 > 912             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



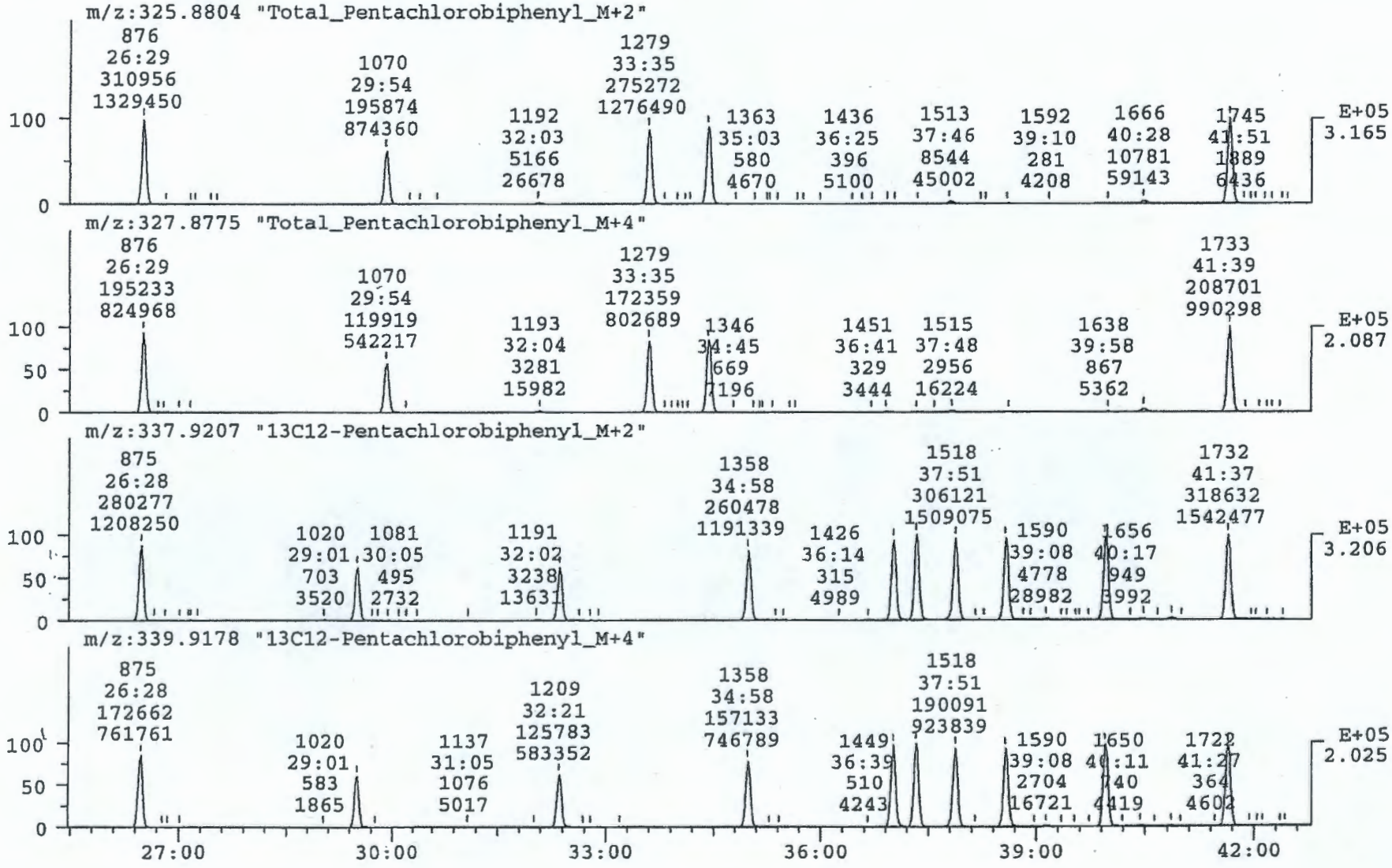
2024

```
CHRO:  a07030753                                08-Mar-07   Elapse:  32:38      1226
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1051 > 1401           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

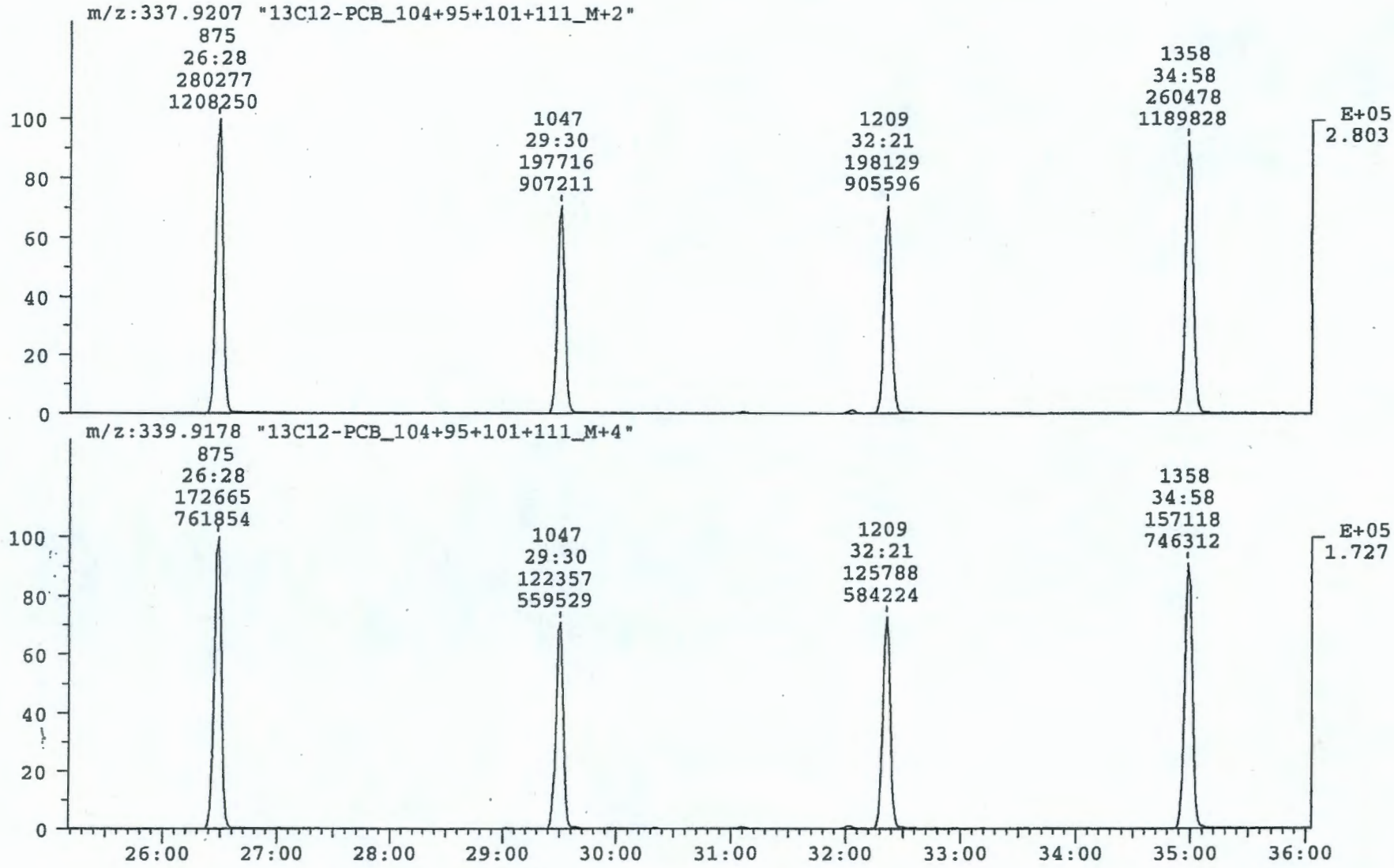


2025

CHRO: a07030753 08-Mar-07 Elapse: 34:07 1310
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 818 > 1798 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

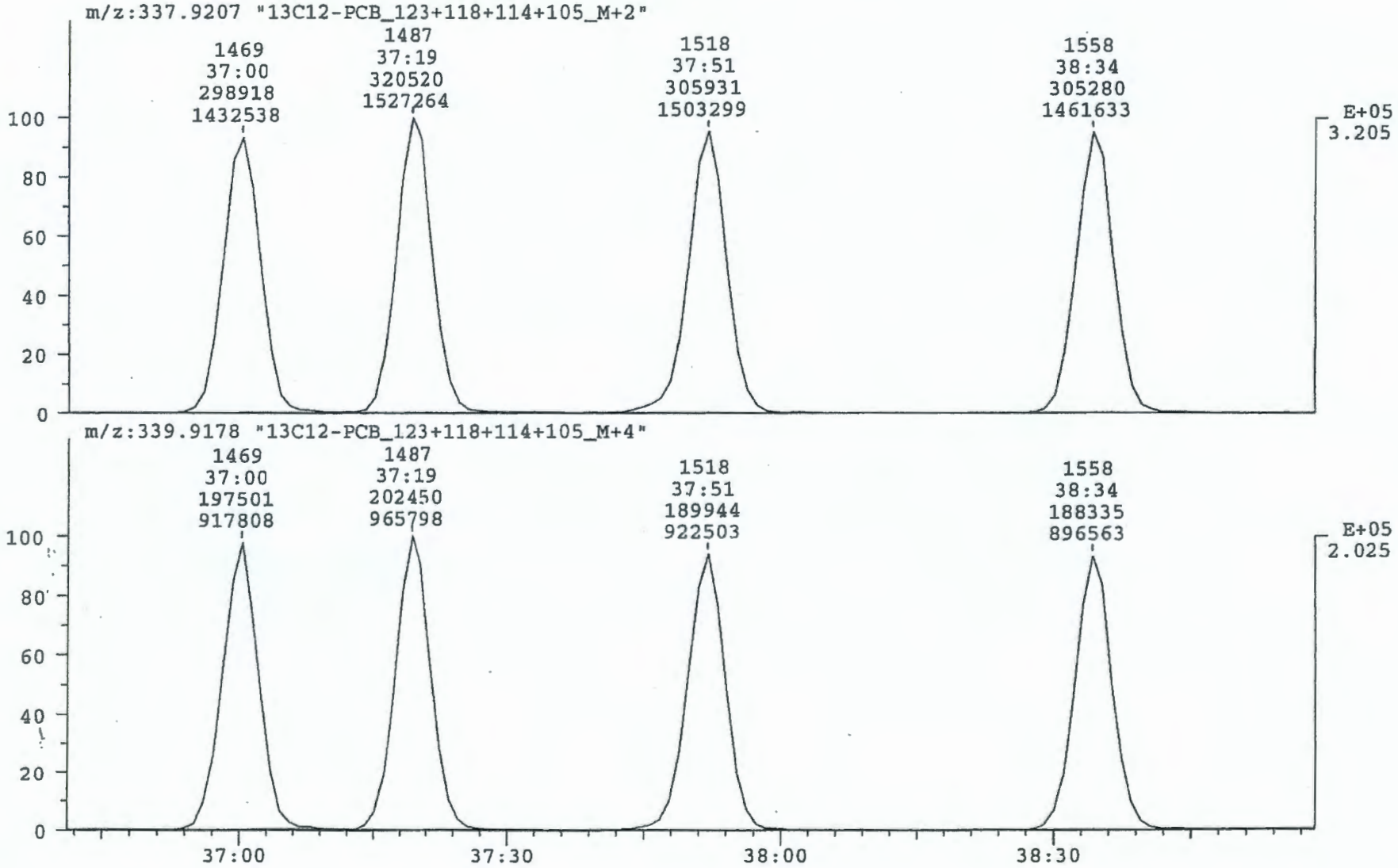


CHRO: a07030753 08-Mar-07 Elapse: 30:37 1111
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 802 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

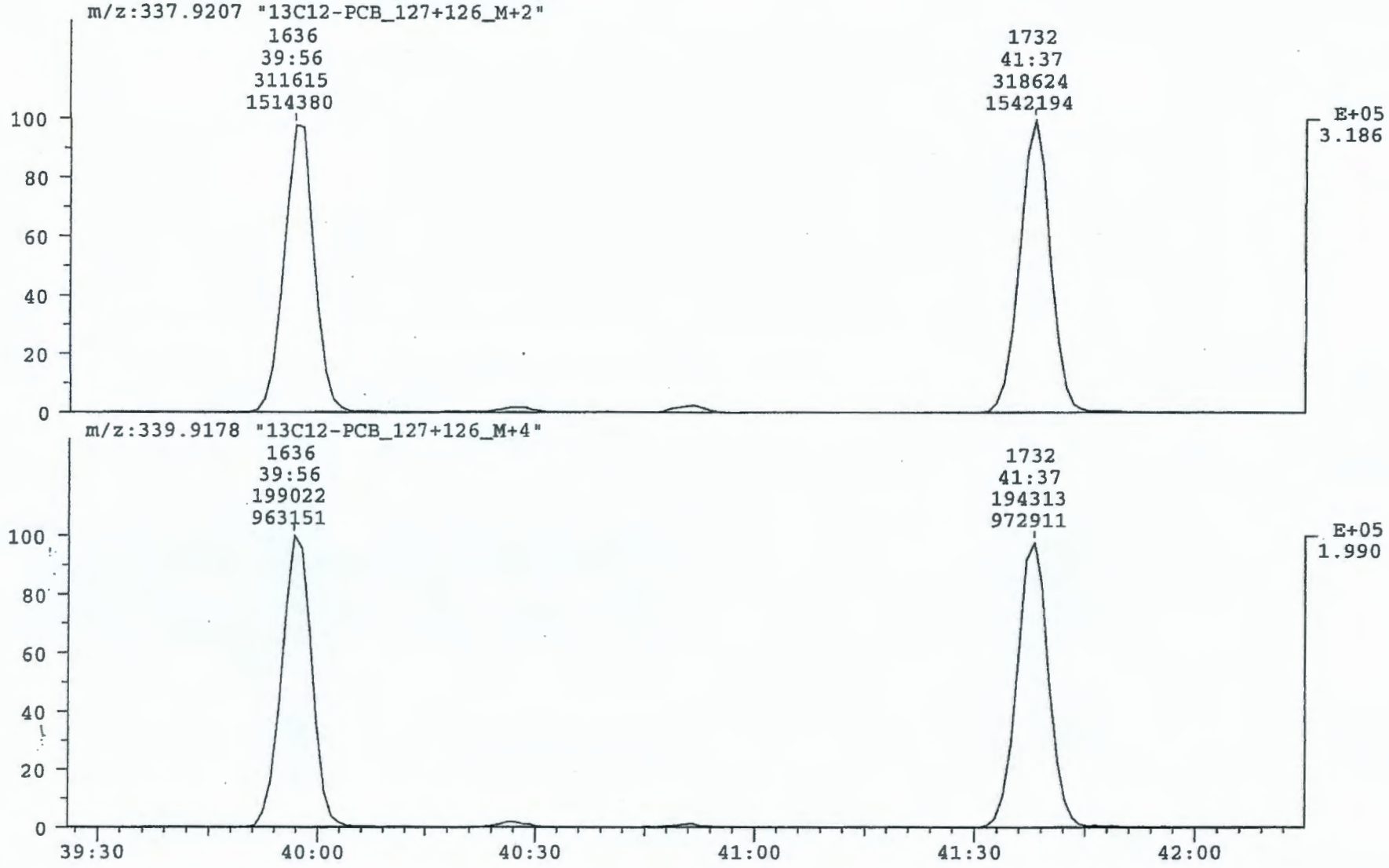


2027

CHRO: a07030753 08-Mar-07 Elapse: 37:49 1516
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1451 > 1581 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

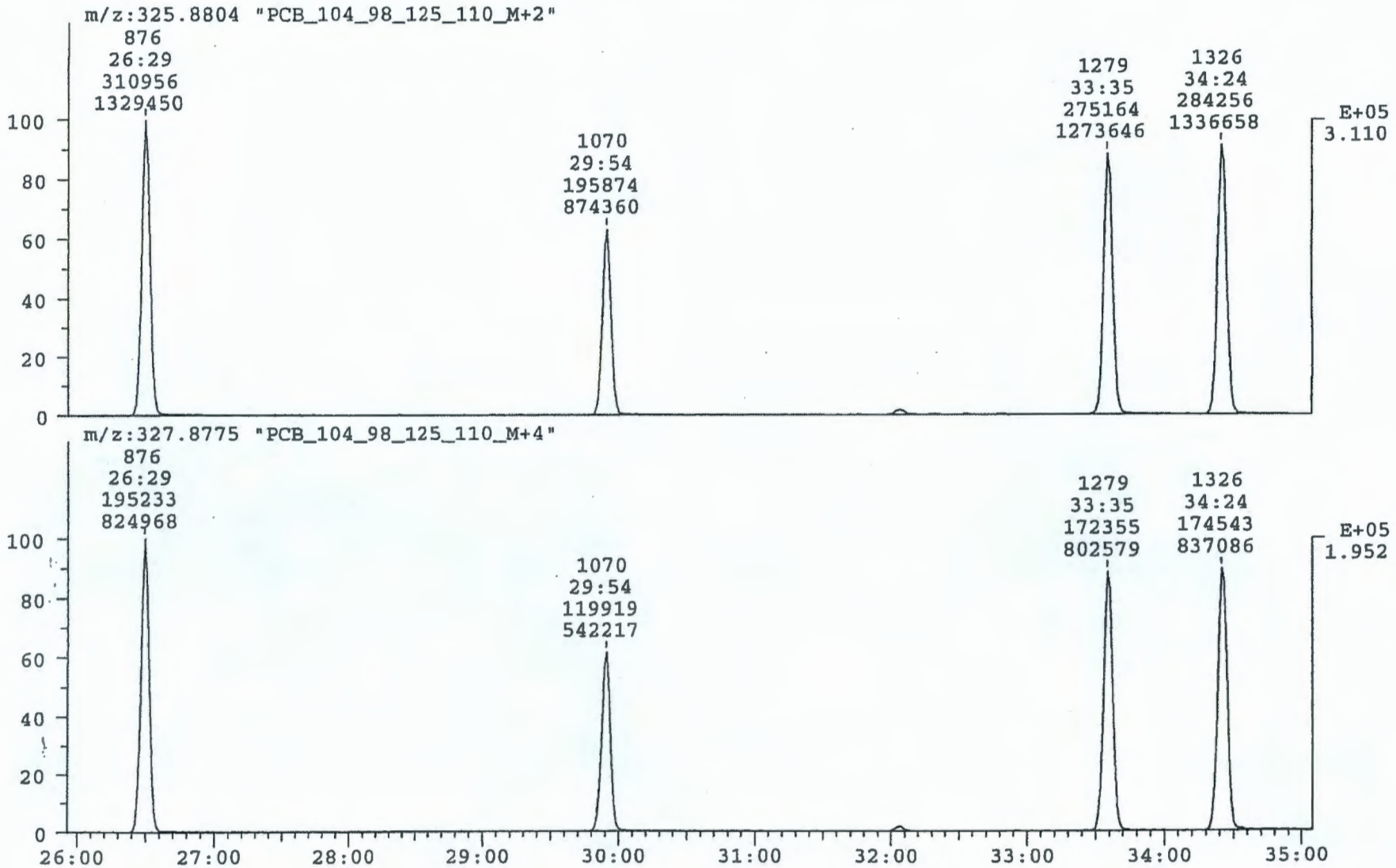


```
CHRO:  a07030753                                08-Mar-07   Elapse:  40:50      1687
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   1607 > 1767            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



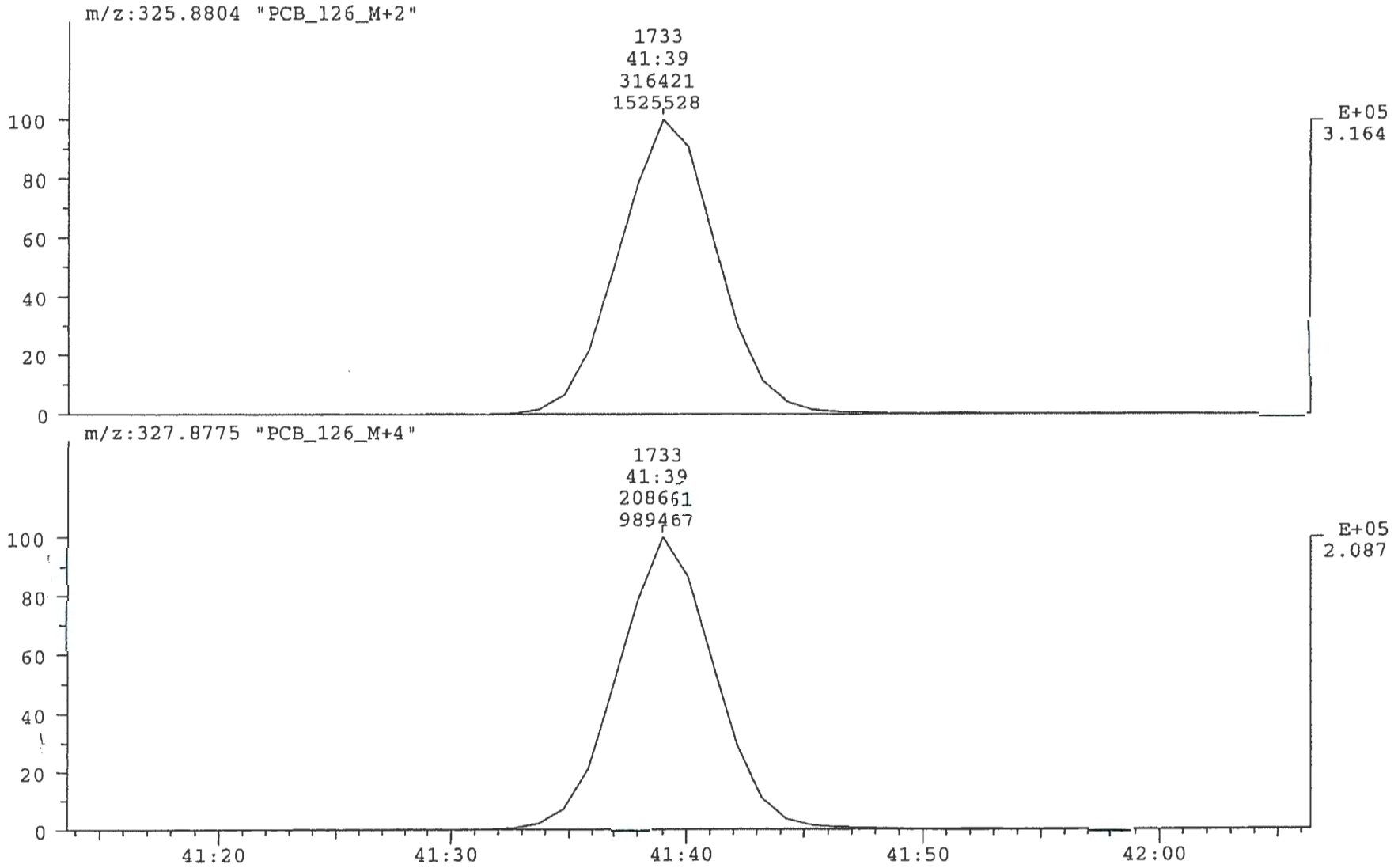
2029

```
CHRO:  a07030753                          08-Mar-07   Elapse:  30:30      1104
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1           Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 RT Mix5/Run3
Oper:  DCG          Client:  STL Knoxville            Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   844 > 1364       Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  -3, 3.0
Disp:  Height  Area
```



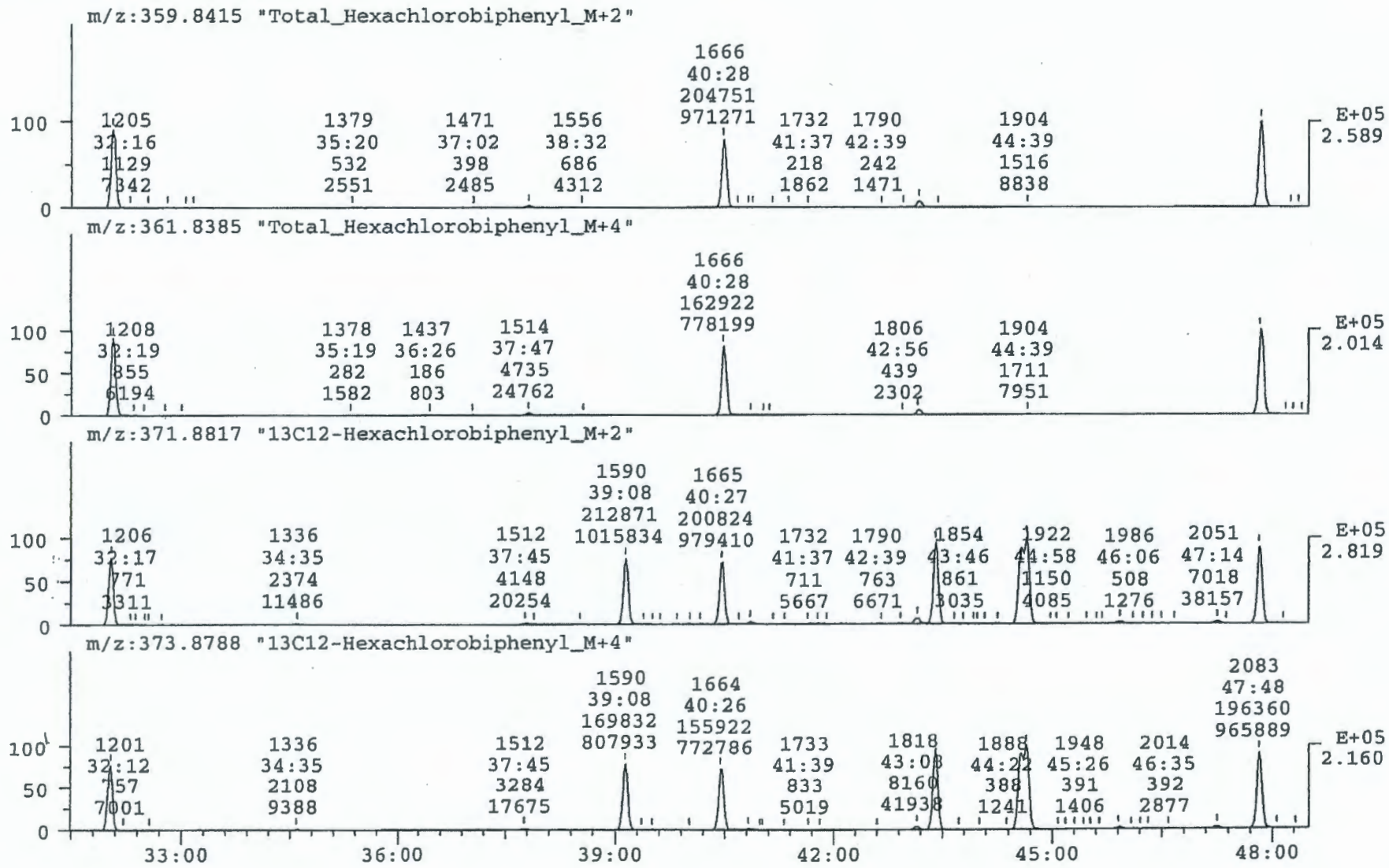
2030

```
CHRO:  a07030753                              08-Mar-07   Elapse:  41:40      1734
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1709 > 1759         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

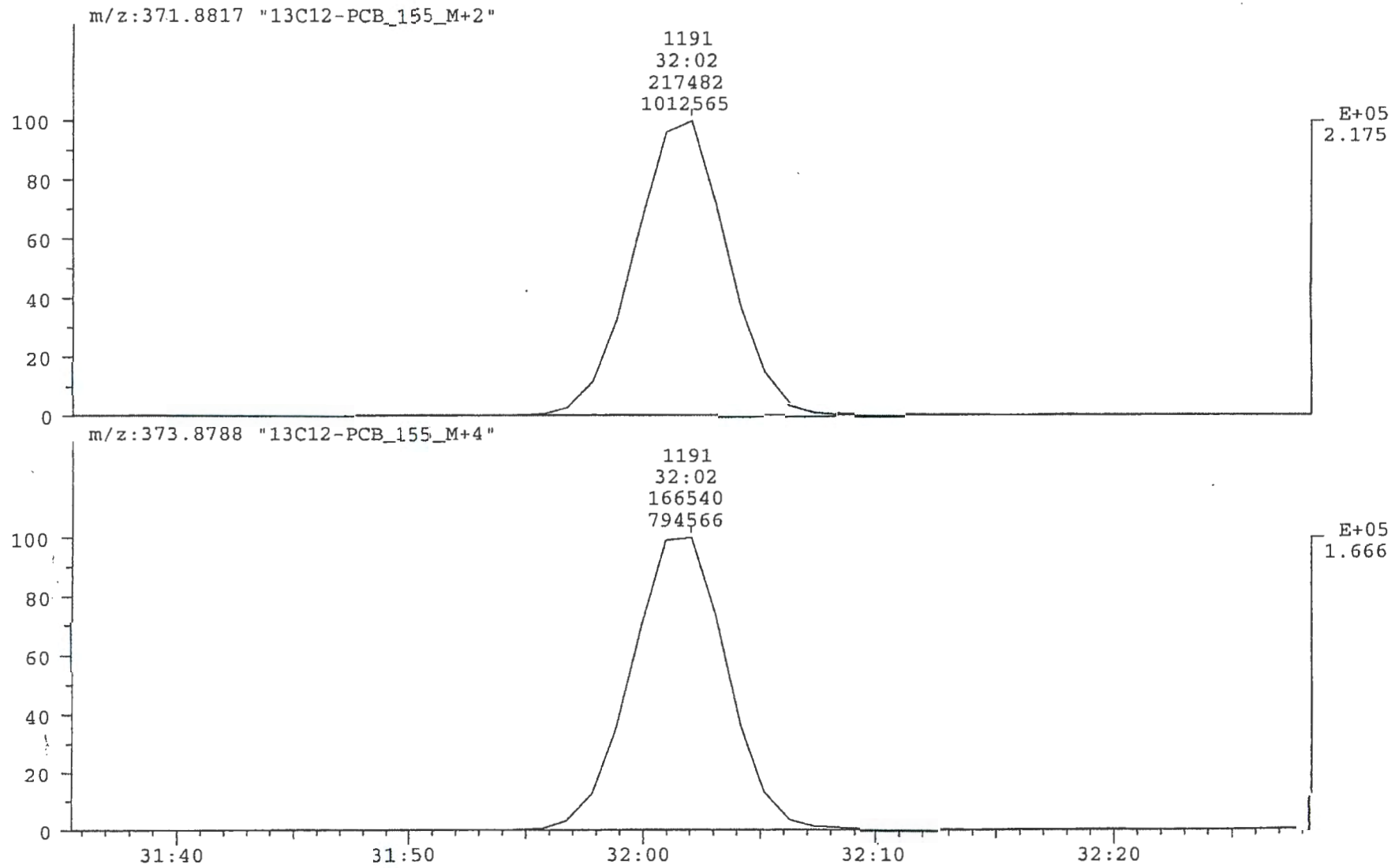


2031

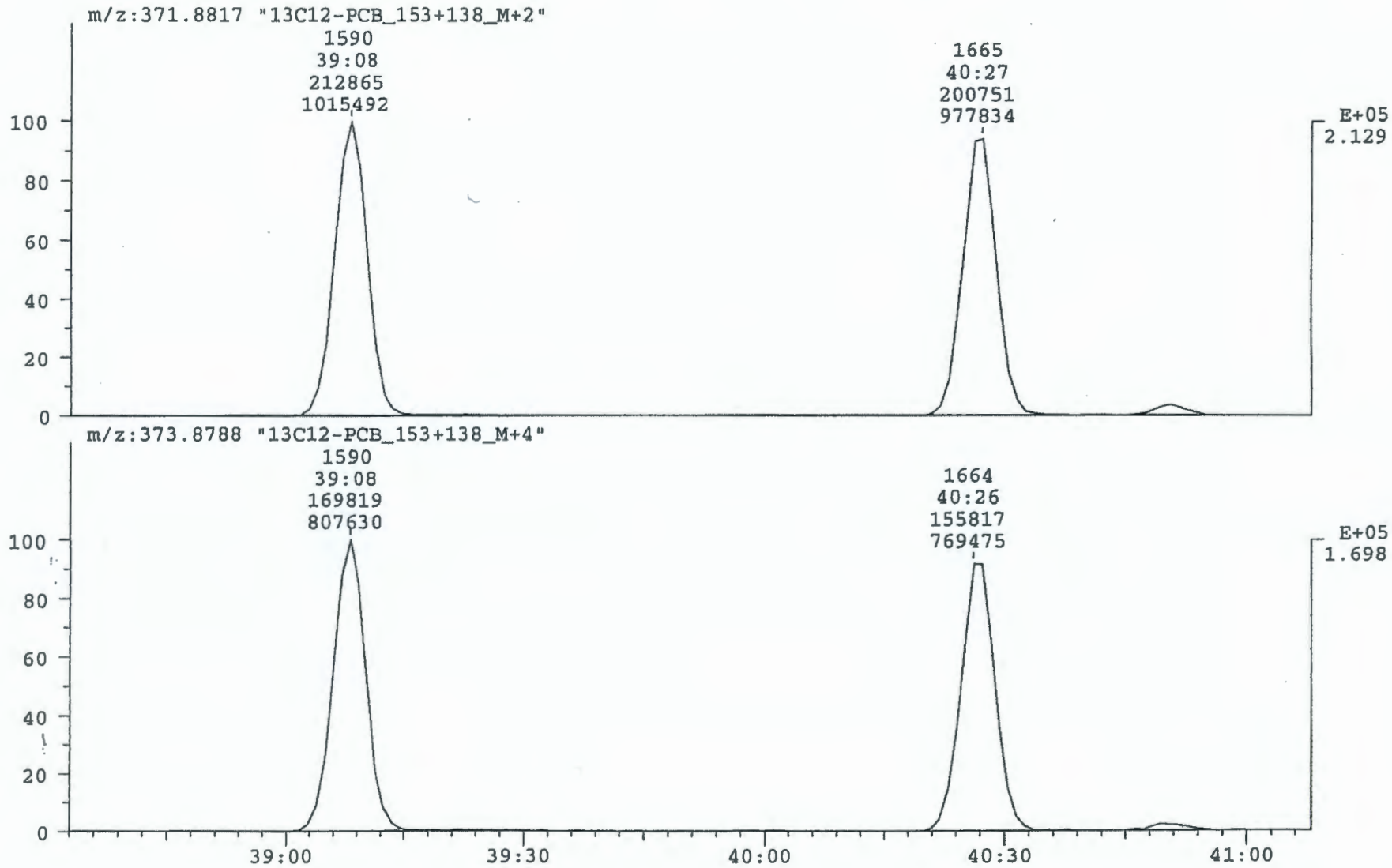
```
CHRO:  a07030753                                08-Mar-07  Elapse:  39:58      1638
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1160 > 2122         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



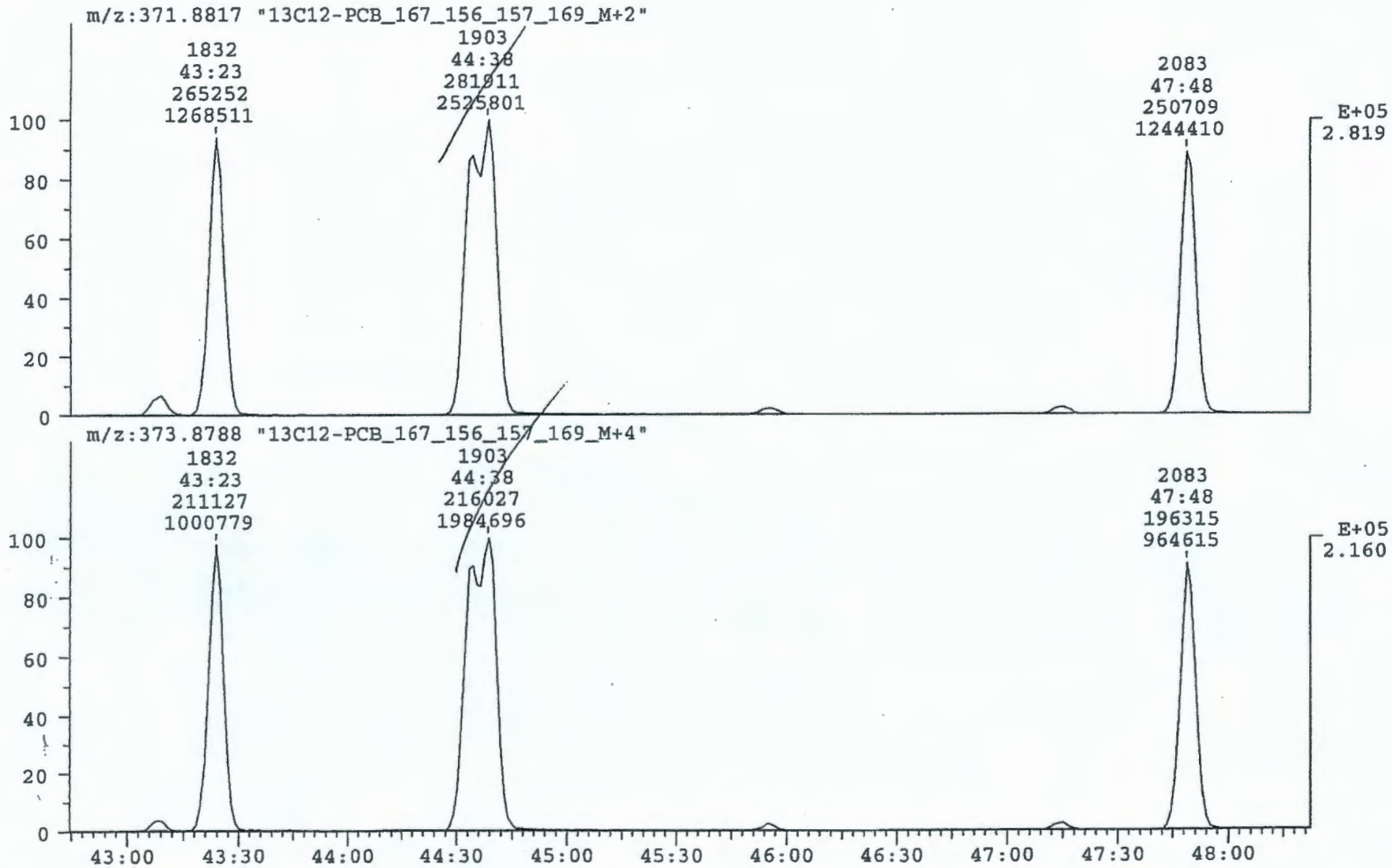
```
CHRO:  a07030753                                08-Mar-07  Elapse:  32:02      1191
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1166 > 1216         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



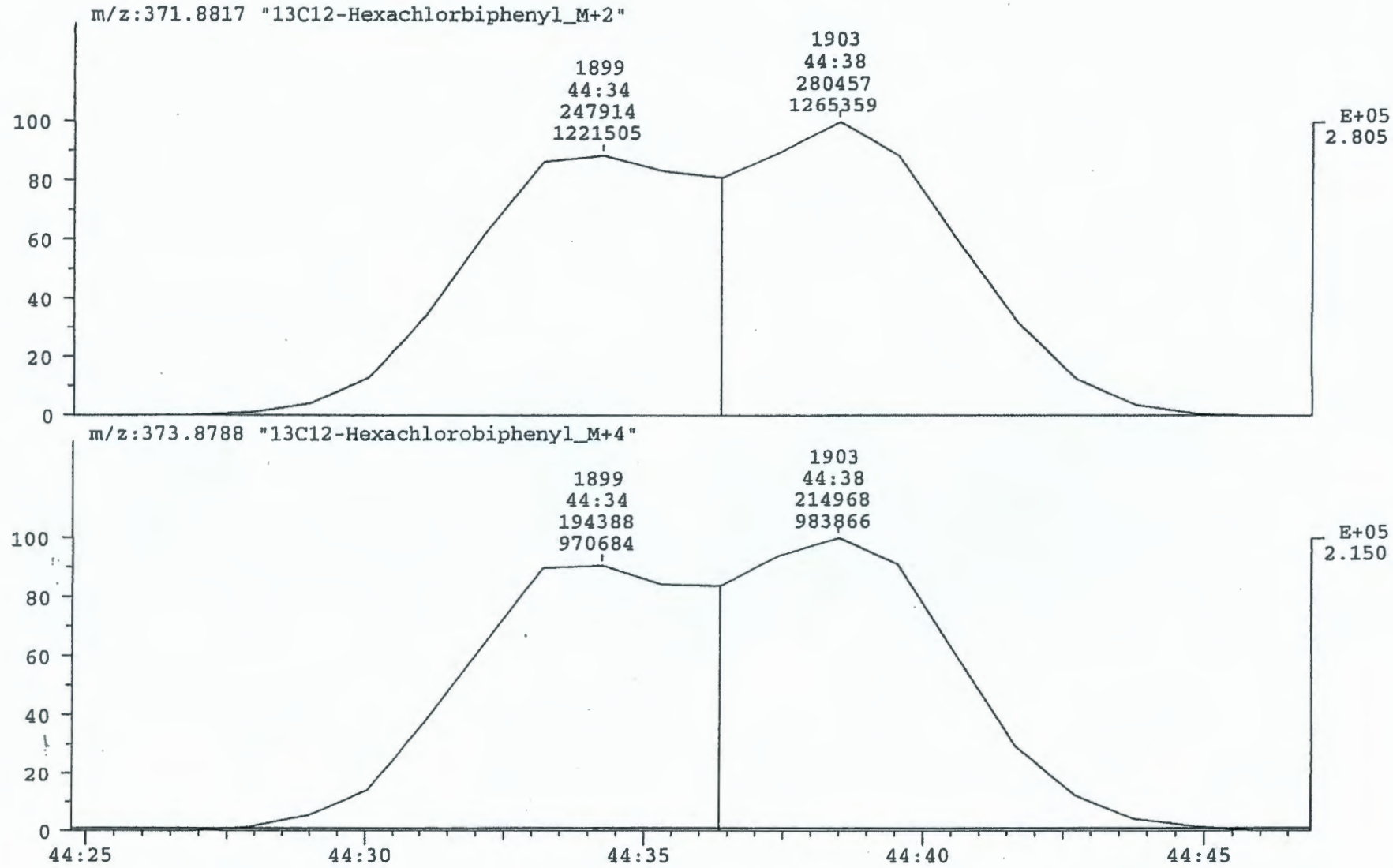
```
CHRO:  a07030753                                08-Mar-07   Elapse:  39:50      1630
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1557 > 1704           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



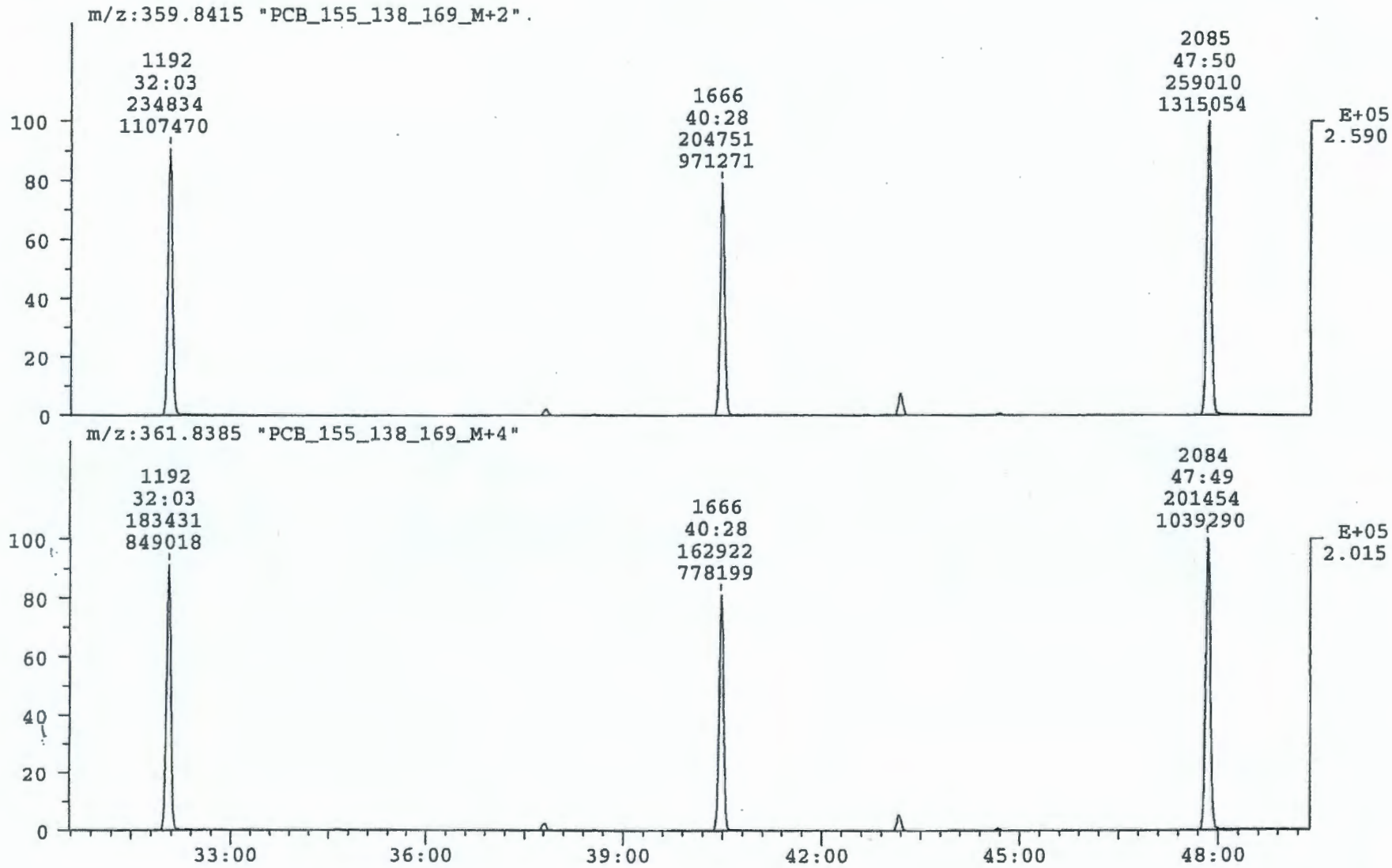
CHRO: a07030753 08-Mar-07 Elapse: 45:38 1960
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1795 > 2115 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



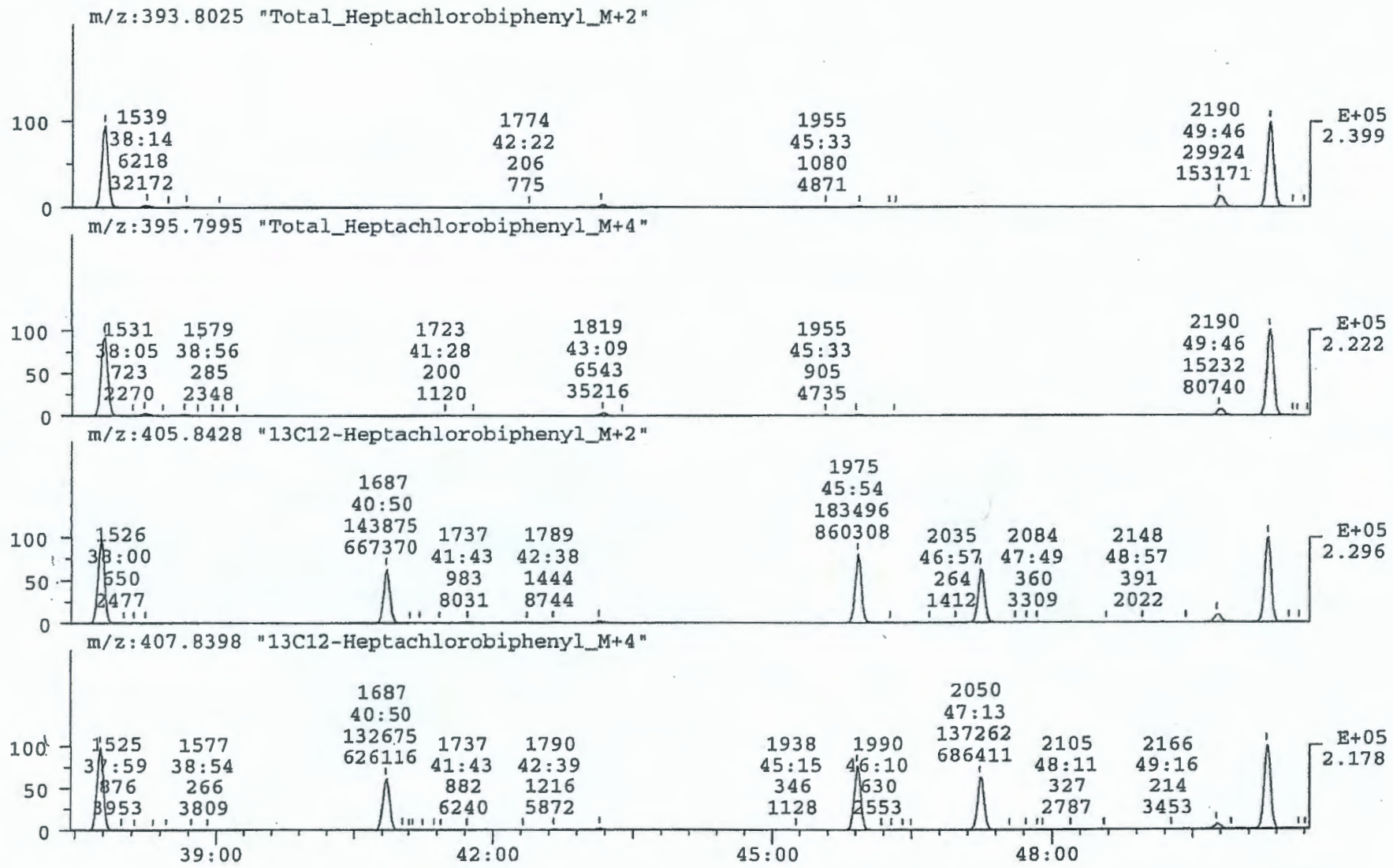
```
CHRO:  a07030753                                08-Mar-07   Elapse:  56:12      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1890 > 1911           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```



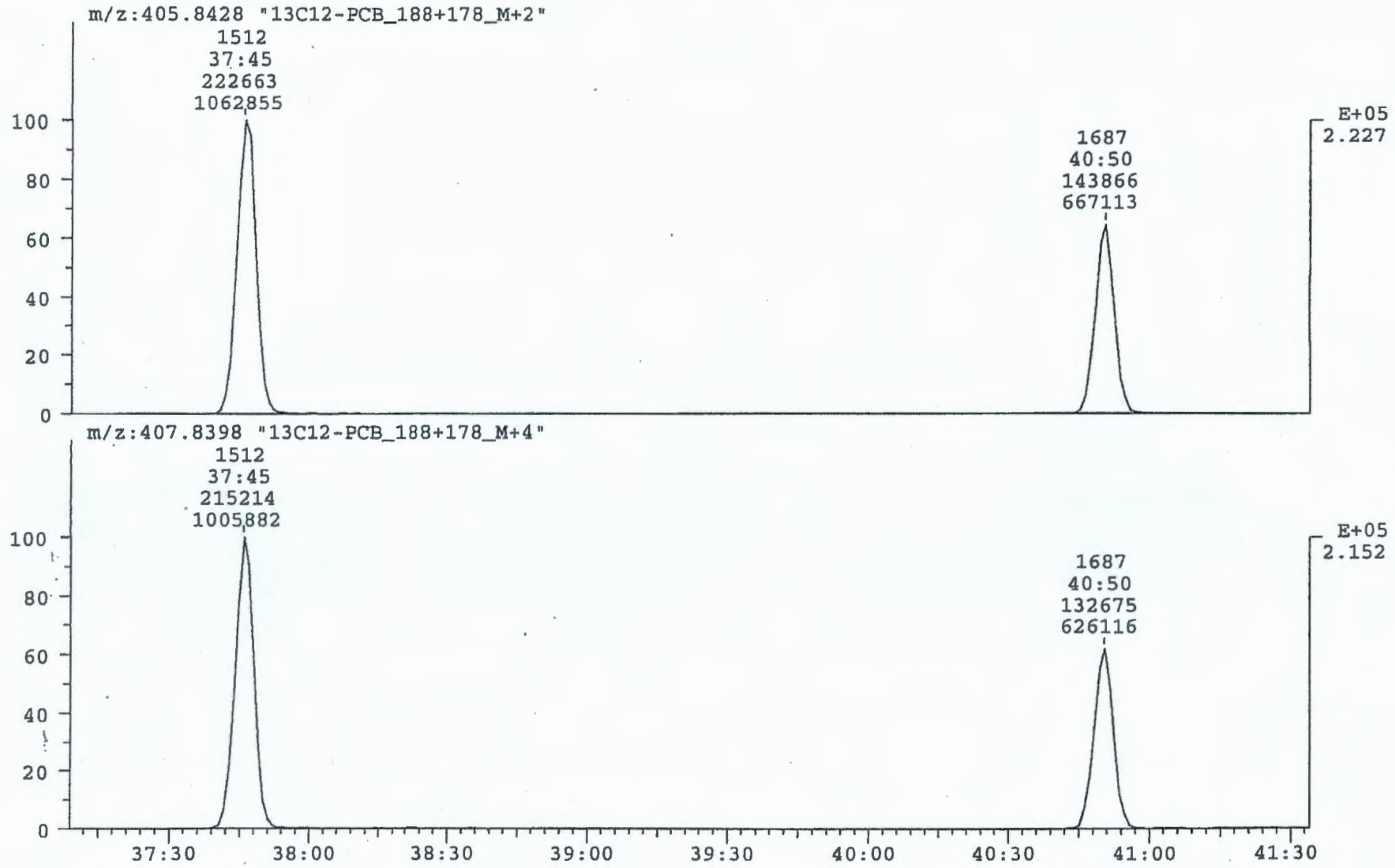
```
CHRO:  a07030753                                08-Mar-07  Elapse:  39:58      1638
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   1108 > 2168          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



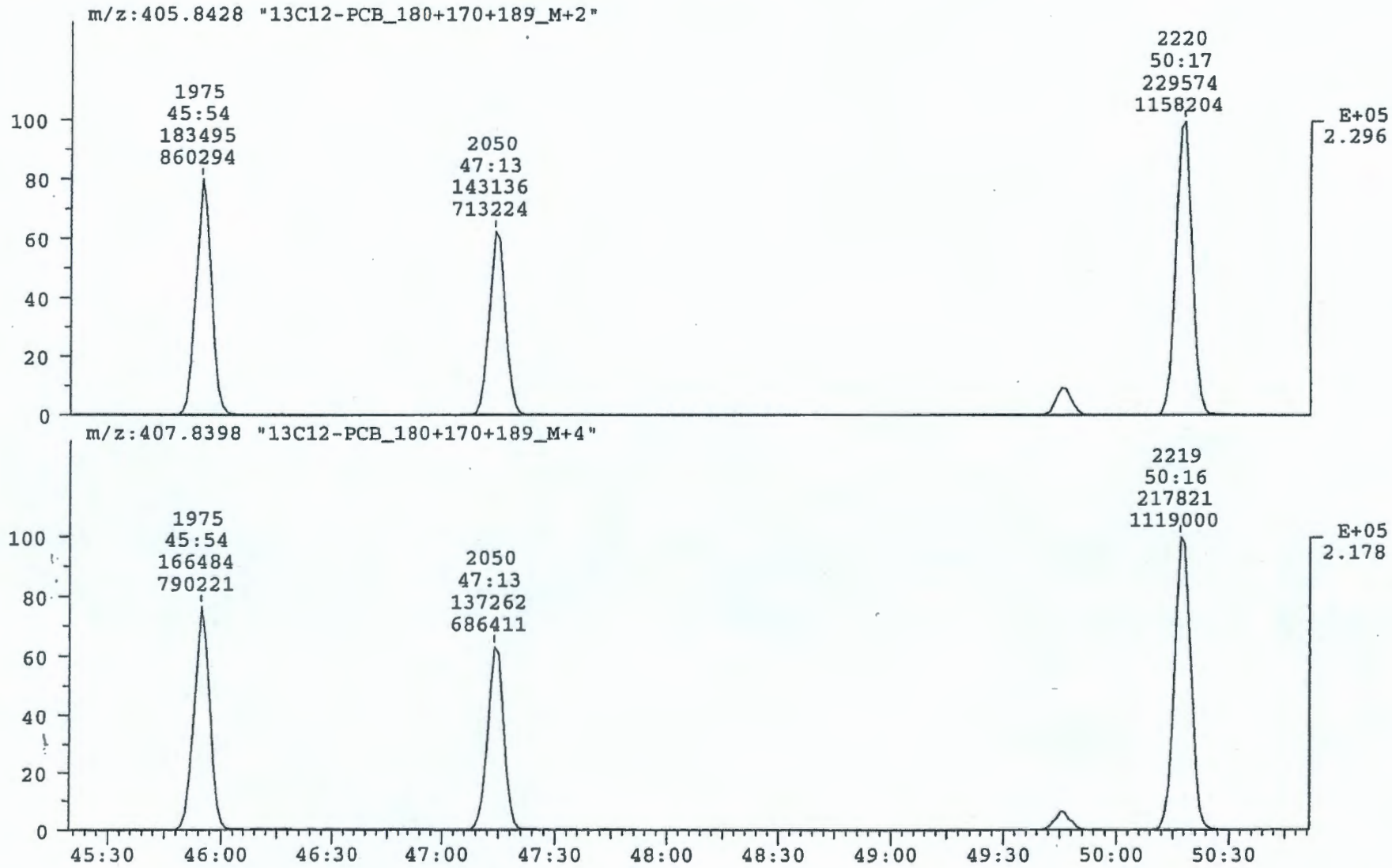
```
CHRO:  a07030753                                08-Mar-07   Elapse:  44:05      1872
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1494 > 2246           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



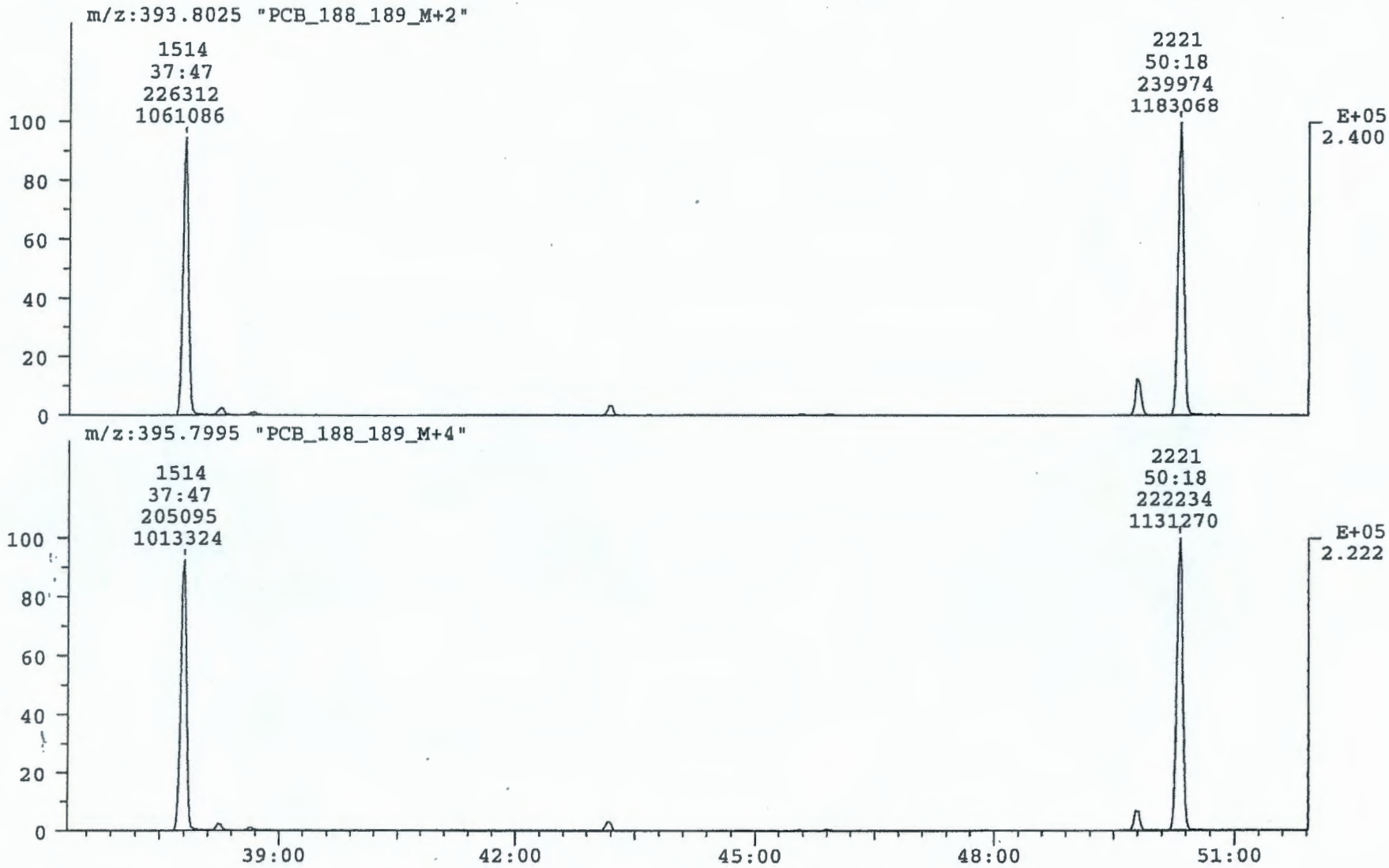
```
CHRO:  a07030753                                08-Mar-07   Elapse:  39:20      1602
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   1477 > 1728            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



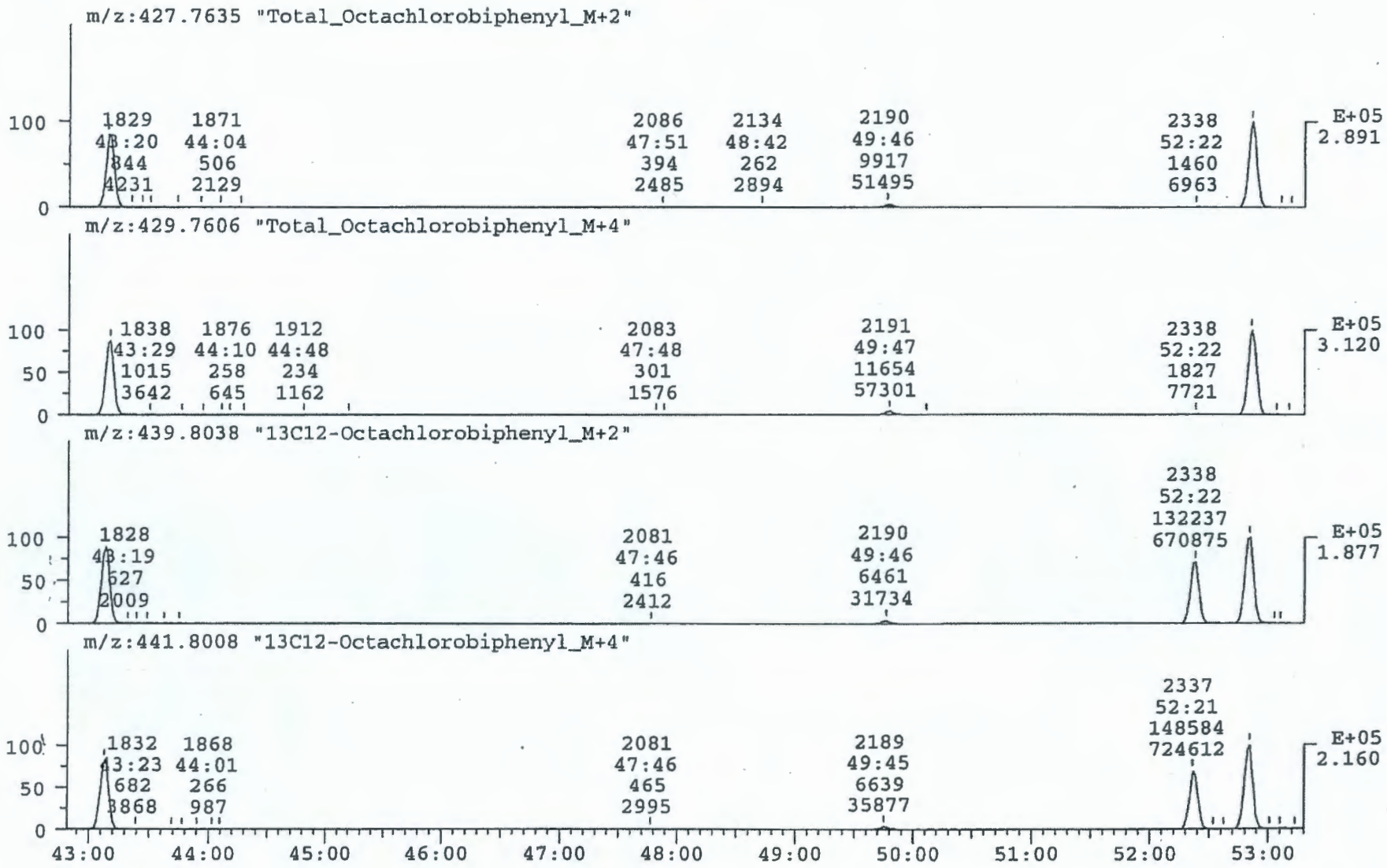
CHRO: a07030753 08-Mar-07 Elapse: 48:08 2102
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1942 > 2252 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



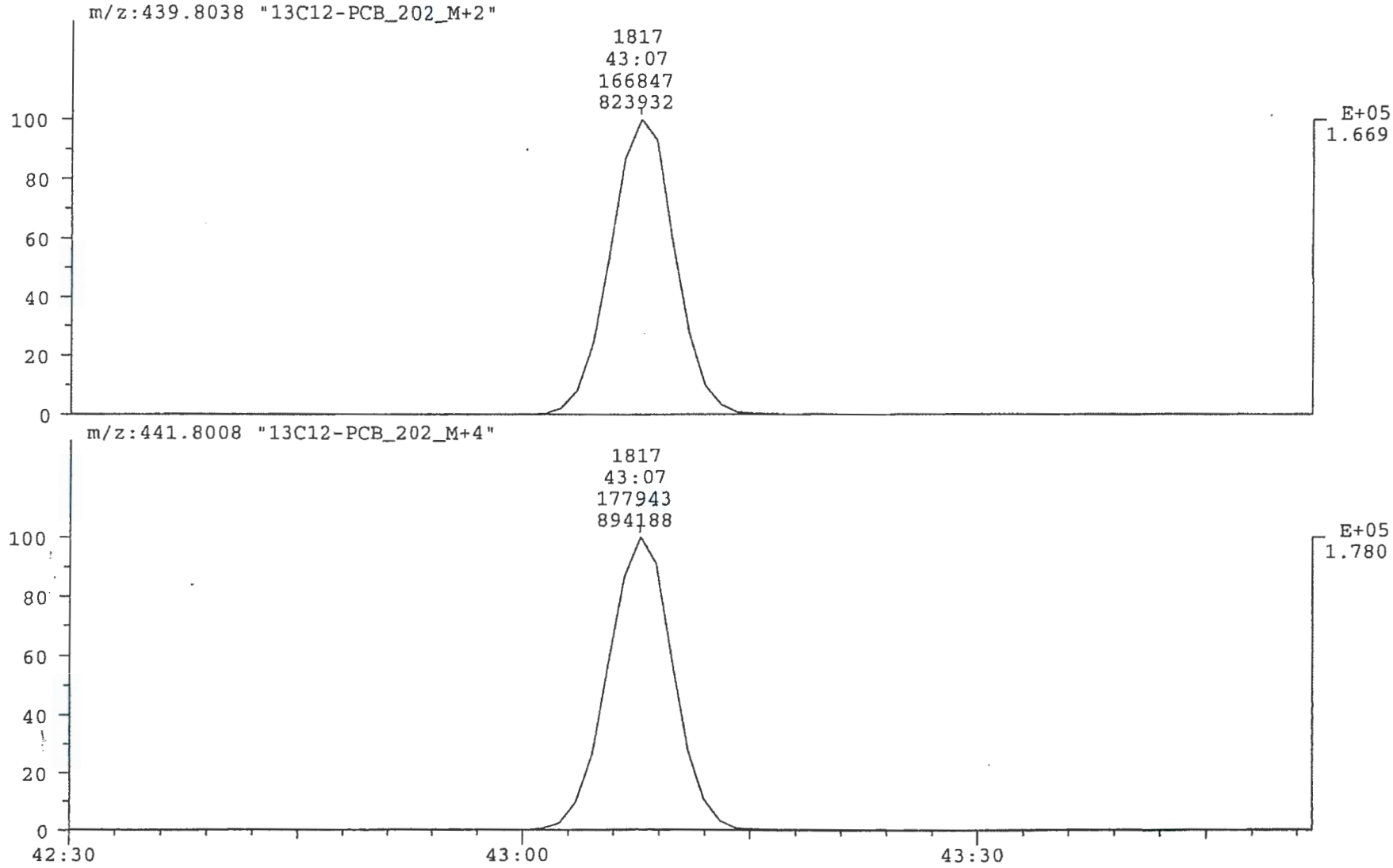
```
CHRO:  a07030753                                08-Mar-07   Elapse:  44:05      1872
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  7
Peak:  100.00  ppm    Label wndw:   1432 > 2312             Masses:  181 > 510
Area:  5, 0.50, 15    Baseline  :   100, 3                  Label :  -3, 3.0
Disp:  Height  Area
```



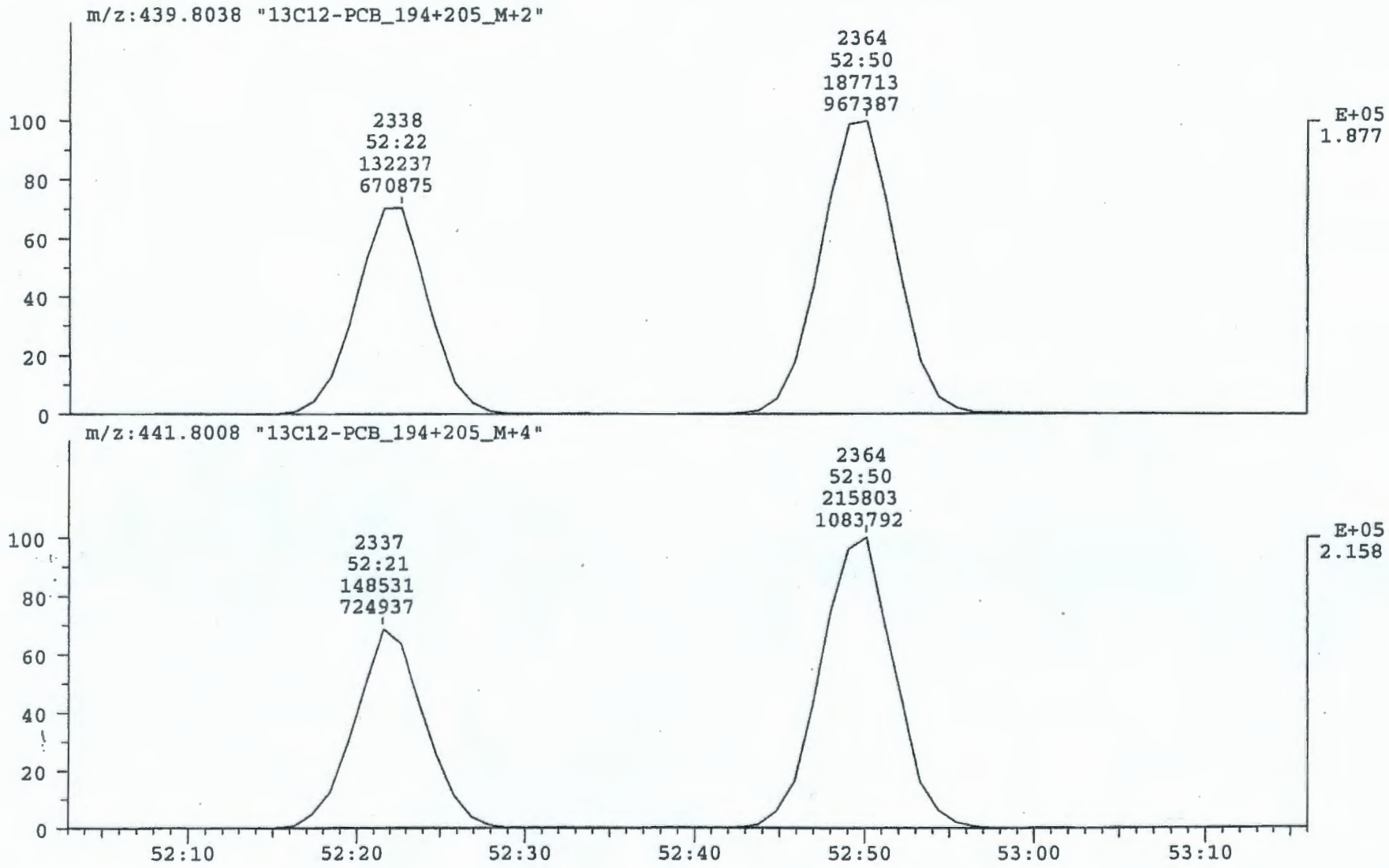
```
CHRO:  a07030753                                08-Mar-07  Elapse:  48:03      2097
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1799 > 2390         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



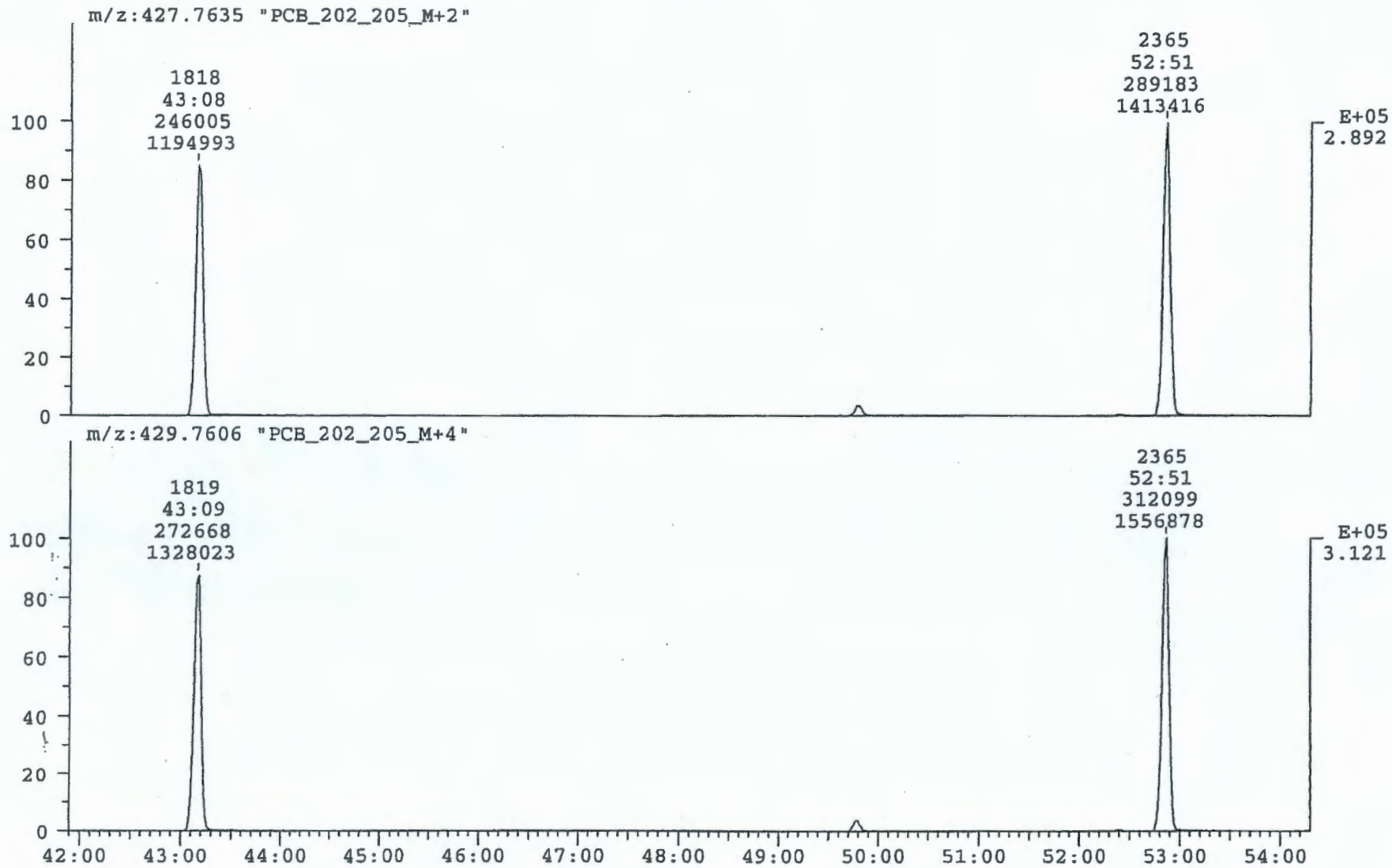
```
CHRO:  a07030753                                08-Mar-07  Elapse:  43:07      1817
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1781 > 1859         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



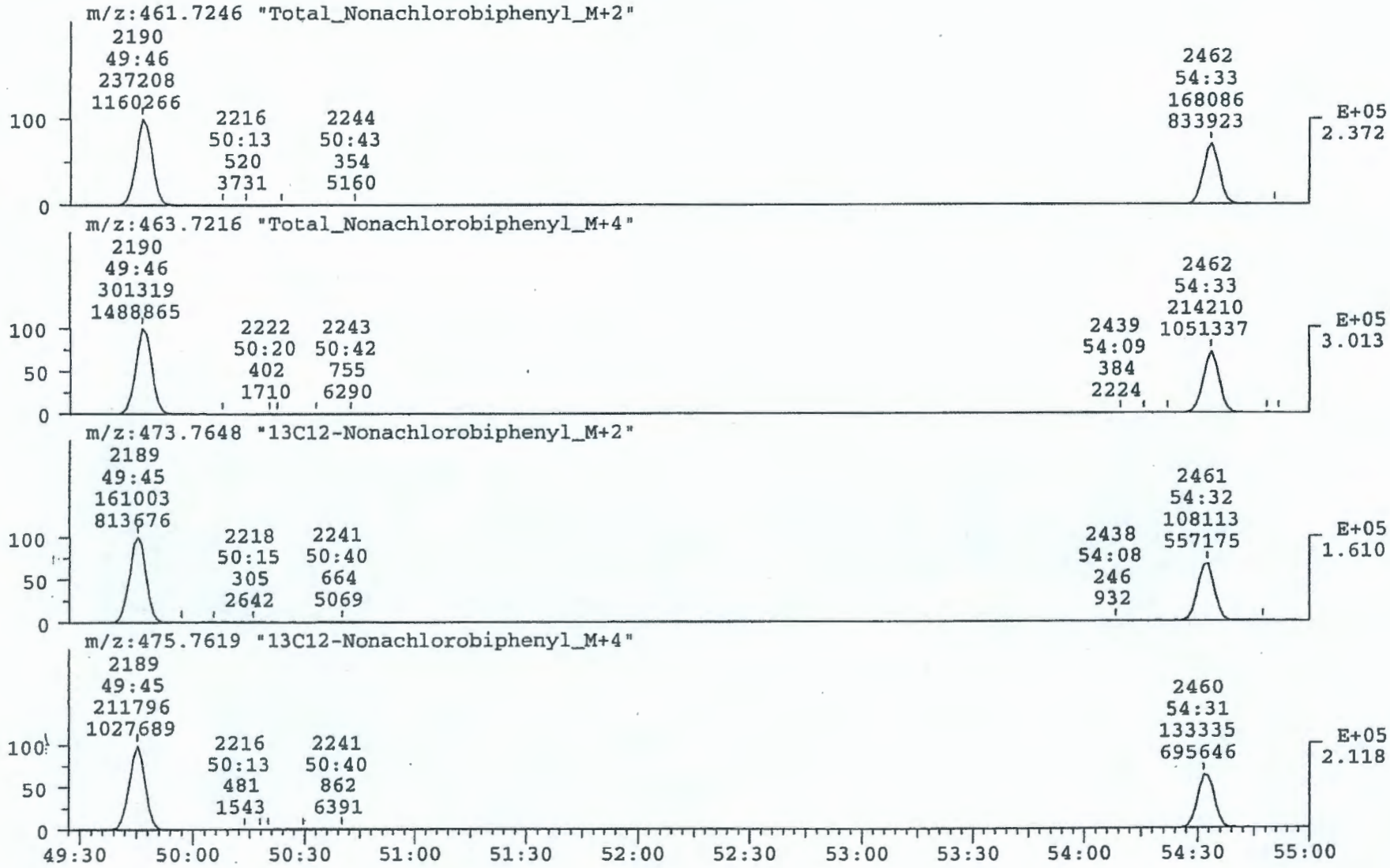
```
CHRO:  a07030753                                08-Mar-07  Elapse:  52:39      2354
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2319 > 2389         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



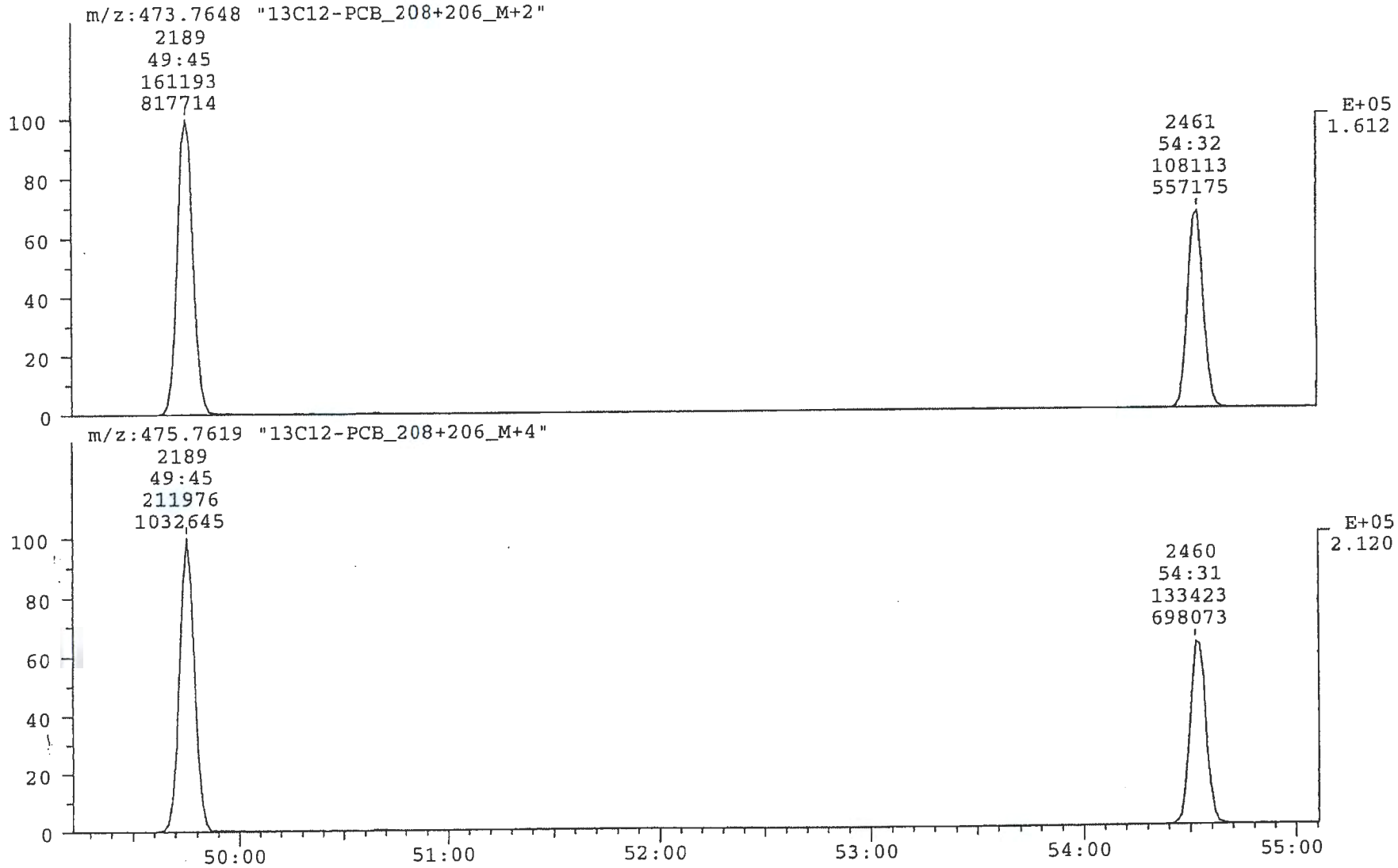
```
CHRO:  a07030753                                08-Mar-07   Elapse:  48:03      2097
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1747 > 2447           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



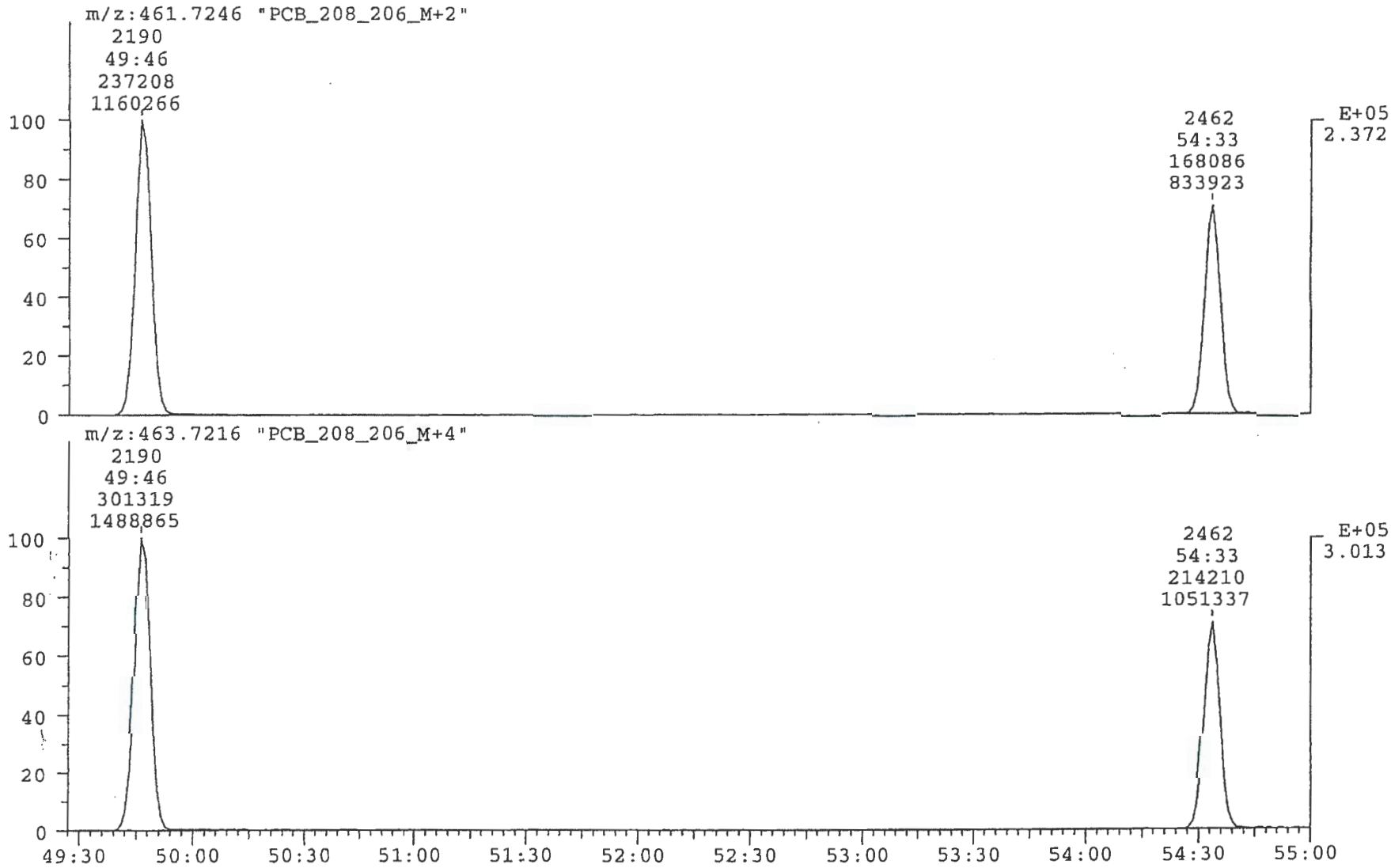
```
CHRO:  a07030753                                08-Mar-07  Elapse:  52:13      2329
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2172 > 2487         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



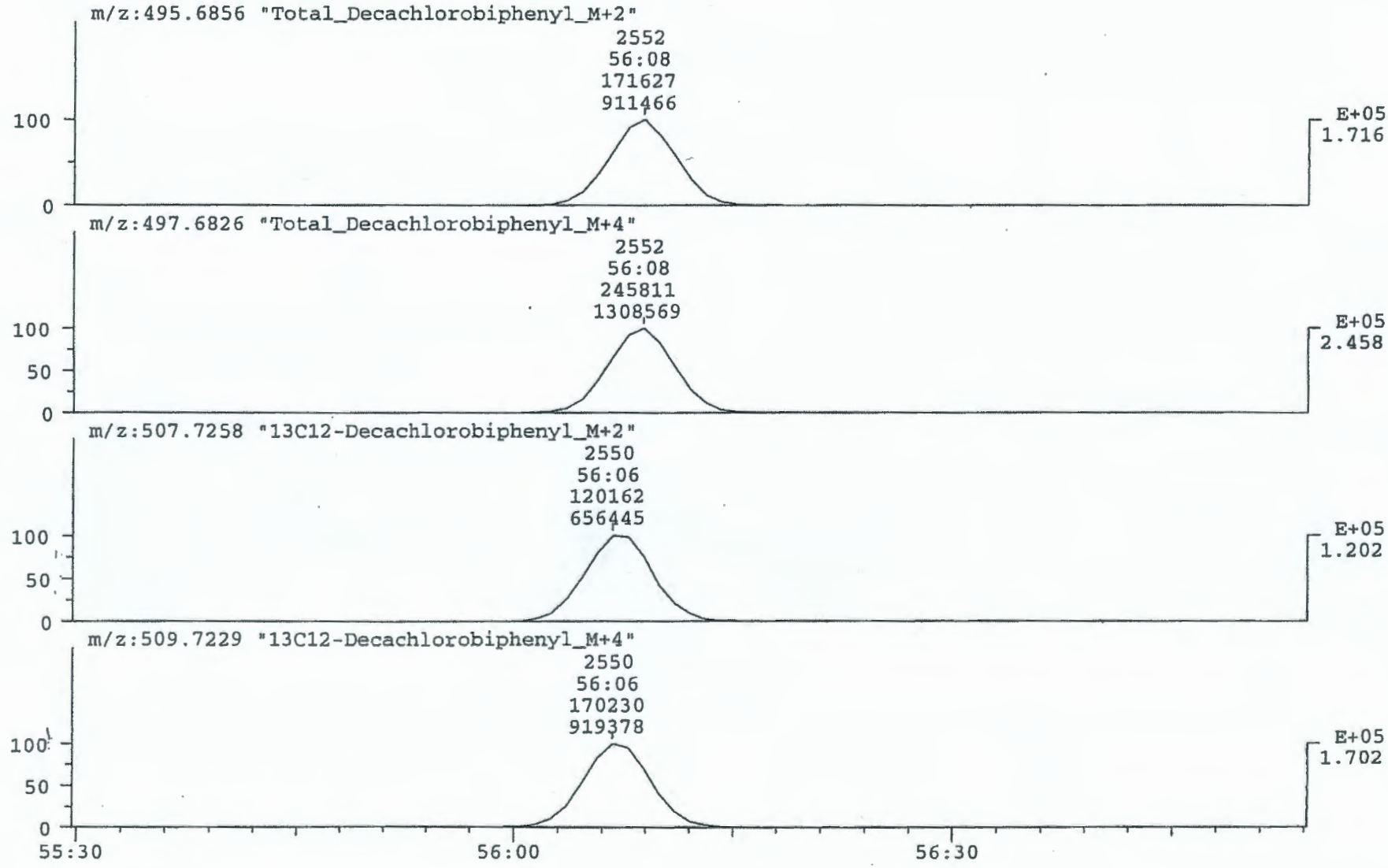
```
CHRO:  a07030753                                08-Mar-07   Elapse:  52:12      2328
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2163 > 2493           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030753                              08-Mar-07   Elapse:  52:13      2329
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   2172 > 2487         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030753                                08-Mar-07  Elapse:  56:12      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC    Vial  7
Peak:  100.00  ppm     Label wndw:   2515 > 2595          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a07030753
Study: 1668 RT Mix5/Run3
Sample: WO=2990:75Mix5 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 7
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 15 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:01 min	14:03 min	36:04 min	1.00 sec
# 3	36:05 min	13:10 min	49:15 min	1.00 sec
# 4	49:16 min	7:44 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	1	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	l	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	l	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	l	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668n

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
Purge time 1.5 min
Purge flow 40.0 ml/min
Gas saver is on
Saver time 3.0 min
Saver flow 15.0 ml/min
Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	258.0000
FVINLET	260.0000	FVSRC	823.0000	FWIN	0.7000
GCTC	202.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.2255	HVANAL	1286.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4771.6680	IST	269.8026
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2606.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.8800	TCURR	0.7422
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 07:27:16.0

Autosampler has injected sample from vial 7
MID Time Window 1: Resolution is 8226
MID Time Window 2: Resolution is 7472
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 8803
Analysis stopped at: 08-Mar-07 08:24:18.7 (run time 57.03 minutes)
Analysis stopped because MID run finished

2054

TA Knoxville Specialty Organics Group GC/MS Continuing Calibration Data Review Checklist
Method or SOP Number: KNOX-ID-0013 Revision 5

Start PFK:	12:07	End PFK:	20:46	CS3 Filename:	A070927S1	Inst:	95	ICAL Date:	3-13-07

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?		✓			✓
2. Was the instrument resolution ≥8,000 throughout and ≥ 10,000 in the center of each m/z range. PFK m/z 192.9888, *230.9856, and *280.9824? PFK m/z 268.9824, *292.9824, and *380.9760? PFK m/z 342.9792, *380.9760, and *430.9728? PFK m/z 404.9760, *442.9728, and *530.9665?		✓	✓		✓
3. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		✓	✓		✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓	✓		✓
5. Were the MID switchpoints set to encompass the retention time windows of each congener group?		✓	✓		✓
6. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187		✓	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		✓	✓		✓
8. Were the %D for all toxic analytes within ± 30% (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Were the %D for all LOC analytes within ± 30% (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		✓	✓		✓
9. Were the %D for all non-toxic/non-LOC analytes within ± 30%?		✓			✓
10. If the %D for any non-toxic/non-LOC was not within ± 30, were response factors calculated from the continuing calibration for all non-toxic/non-LOC analytes with a %D greater than ± 30% but within ± 60%.	✓				✓
11. Were the response factors calculated for each labeled standard and unlabeled native analyte using the SOP specified reference compound, quantitation ions, and formula.		✓			✓
12. Were the absolute retention times of all labeled internal standards within ± 15 seconds of the retention times obtained during initial calibration?		✓			✓
13. Are %D within ± 50% for all labeled internal standards in the calibration?		✓			✓
14. Are the %D within ± 30% for all labeled surrogate standards in the calibration.		✓			✓
15. Are the %D within -40/+30% for all labeled cleanup standards in the calibration?		✓			✓
16. Are all S/N ratios ≥10 for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		✓			✓
17. Are RRTs of all unlabled toxic/LOC analytes within their respective RRT limits?		✓			✓
18. If PCB 156 and 157 were classified as uniquely resolved in the most recent initial calibration, was the valley between the two less than or equal to the 50% of the height of the shorter of the two peaks?	✓				✓
19. Are the ion abundance ratios for all labeled and unlabeled analytes within the specified control limits?		✓			✓
20. If manual integrations were performed, are they clearly identified, initialed and dated?	✓				✓
21. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				✓
22. Does the CCAL folder contain complete data in the following order? Data review checklist, a complete runlog, CCAL summary, Ratio summary, Calculation summary, PFK resolution/peak match documentation (HRMS only), and Total RIC, EICP's and manual integration - for window and both standards.		✓			✓

Analyst: BKW	Date: 9/27/07	2nd Level Reviewer: PWP	Date: 9-27-07
Comments:		Comments:	

*At reduced accelerating voltage

STL KNOXVILLE
SPECIALTY ORGANICS INSTRUMENT MAT 95 RUN LOG

Date	Time	Opr	Sample ID	Filename	Code	Matrix	Type	Tape	Lot#/Comments
9/26/07	12:03	DCG	PFK	—	OK	—	Res		Mass Res Check
9/26/07	12:17	DCG	2990:71 C53	0070926S1	OK	—	Ver		1668 Ver
9/26/07	14:24	DCG	J657V1AC	apj657vc	OK	H_2O	QC		H7I190000-266C
9/26/07	15:24	DCG	Noname	spbr	OK	—	QC		Flush
9/26/07	15:39	DCG	⊥	spbr	OK	—	QC		⊥
9/26/07	15:55	DCG	J657V1AA	apj657vb	OK	H_2O	QC		H7I190000-266B
9/26/07	17:01	DCG	J7J71AA	apj7j71	OK	H_2O	QC		H7I250112-001
9/26/07	19:34	DCG	J7J72AA	apj7j72	~~OK~~ DR	H_2O	QC		⊥ -002
9/26/07	20:36	DCG	J52F72AA	apj52f72	OK	H_2O	SAM		H7H310201-002
9/26/07	21:38	DCG	J6LV91AA	apj6lv9	OK	H_2O	SAM		H7I120109-002
9/26/07	22:39	DCG	J6VFK1AA	apj6vfk	OK	H_2O	SAM		H7I140194-001
9/26/07	—	DCG	J52F62AA	apj52f62	DR	H_2O	SAM		H7H310201-001
9-26-07	23:43	PNW	PFK	—	OK	—	Res		Mass Res Chk
9-27-07	12:04	DCG	PFK	—	OK	—	Res		MASS RES CHK
9-27-07	12:16	DCG	2970:1	9090927S1	OK	—	Ver		Ver STP 1668
9-27-07	14:03	DCG	Noname	spbr	OK	—	QC		Flush
9-27-07	14:18	DCG	⊥	⊥	OK	—	QC		⊥
9-27-07	14:34	DCG	J7CITIAA	apj7citb	OK	Biol	QC		H7I210000-168B
9-27-07	15:36	DCG	J2916ZAA	apj29193	OK	H_2O	SAM		H7G200276-001
9-27-07	16:38	DCG	J52F62AA	apj52f62	OK	H_2O	SAM		H7H310201-001
9-27-07	17:39	DCG	J6LV81AA	apj6lv8	OK	H_2O	SAM		DCG 9-27-07 H7I120109-001
9-27-07	18:41	DCG	J6LWA1AA	apj6lwa	OK	H_2O	SAM		⊥ -003
9-27-07	19:43	DCG	J6VFM1AA	apj6vfm	DL	H_2O	SAM		H7I140194-002
9-27-07	—	DCG	noname	spbr	—	—	QC		Flush
9-27-07	—	DCG	J7CITIAC	apj7citc	DR	Biol	QC		H7I210000-168C
9-27-07	20:46	PNW	PFK		OK	—	Res		Mass Res Chk

PNW
9-27-07

Read and Understood by: PNW Date: 9-27-07

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STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1

CCAL Filename: a070927s1

CCAL Sample ID: 2990:71

CCAL Result Dir: /20070927s1/a070927s1.d

CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07

Method: IE3 - IE3

Instrument: M1D

Column SN: 35055-03A

Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
I 13C12-PCB 1			M/M+2	3.26	2.66-3.60	1.318	1.269	-3.7	100	96	50-150	True
I 13C12-PCB 3			M/M+2	3.24	2.66-3.60	1.325	1.253	-5.4	100	95	50-150	True
PCB 1 (BZ)	L		M/M+2	3.30	2.66-3.60	1.253	1.126	-10.1	50	45	35-65	True
PCB 2 (BZ)			M/M+2	3.16	2.66-3.60	1.226	1.022	-16.6	50	42	35-65	True
PCB 3 (BZ)	L		M/M+2	3.22	2.66-3.60	1.348	1.097	-18.6	50	41	35-65	True
I 13C12-PCB 4			M/M+2	1.60	1.33-1.79	0.615	0.649	5.6	100	106	50-150	True
R 13C12-PCB 9			M/M+2	1.62	1.33-1.79	1.000	1.000	0.0	100	100	-	
S 13C12-PCB 8			M/M+2	1.62	1.33-1.79	1.332	1.264	-5.1	50	47	35-65	True
I 13C12-PCB 15			M/M+2	1.59	1.33-1.79	1.065	1.041	-2.3	100	98	50-150	True
PCB 4 (BZ)	L		M/M+2	1.69	1.33-1.79	1.212	1.066	-12.1	50	44	35-65	True
PCB 10 (BZ)			M/M+2	1.60	1.33-1.79	1.326	1.264	-4.6	50	48	35-65	True
PCB 9 (BZ)			M/M+2	1.58	1.33-1.79	1.445	1.288	-10.9	50	45	35-65	True
PCB 7 (BZ)			M/M+2	1.61	1.33-1.79	1.432	1.336	-6.7	50	47	35-65	True
PCB 6 (BZ)			M/M+2	1.57	1.33-1.79	1.450	1.301	-10.3	50	45	35-65	True
PCB 5 (BZ)			M/M+2	1.74	1.33-1.79	1.356	1.150	-15.2	50	42	35-65	True
PCB 8 (BZ)			M/M+2	1.53	1.33-1.79	1.477	1.332	-9.8	50	45	35-65	True
PCB 14 (BZ)			M/M+2	1.56	1.33-1.79	1.687	1.563	-7.4	50	46	35-65	True
PCB 11 (BZ)			M/M+2	1.59	1.33-1.79	1.448	1.243	-14.1	50	43	35-65	True
PCB 13 (BZ)		C12	M/M+2		1.33-1.79	1.454		0.0	100 a	83	70-130	C12
PCB 12 (BZ)		C12	M/M+2	1.60	1.33-1.79	1.454	1.206	-17.0	100 a	83	70-130	True
PCB 15 (BZ)	L		M/M+2	1.61	1.33-1.79	1.233	1.059	-14.1	50	43	35-65	True
I 13C12-PCB 19			M/M+2	1.11	0.88-1.20	0.558	0.590	5.7	100	106	50-150	True
R 13C12-PCB 32			M/M+2	1.12	0.88-1.20	1.000	1.000	0.0	100	100	-	
R 13C12-PCB 31			M/M+2	1.04	0.88-1.20	1.000	1.000	0.0	100	100	-	
C 13C12-PCB 28			M/M+2	1.06	0.88-1.20	0.968	1.041	7.6	50	54	35-65 b	True
I 13C12-PCB 37			M/M+2	1.07	0.88-1.20	0.885	0.910	2.8	100	103	50-150	True
PCB 19 (BZ)	L		M/M+2	1.11	0.88-1.20	1.178	1.235	4.8	50	52	35-65	True
PCB 30 (BZ)			M/M+2	1.04	0.88-1.20	1.874	1.841	-1.8	50	49	35-65	True
PCB 18 (BZ)			M/M+2	1.11	0.88-1.20	1.262	1.291	2.3	50	51	35-65	True
PCB 17 (BZ)			M/M+2	1.07	0.88-1.20	1.326	1.324	-0.2	50	50	35-65	True
PCB 27 (BZ)			M/M+2	1.10	0.88-1.20	1.945	1.765	-9.3	50	45	35-65	True
PCB 24 (BZ)			M/M+2	1.10	0.88-1.20	1.782	1.803	1.2	50	51	35-65	True
PCB 16 (BZ)			M/M+2	1.12	0.88-1.20	1.157	1.086	-6.2	50	47	35-65	True
PCB 32 (BZ)			M/M+2	1.09	0.88-1.20	1.966	2.023	2.9	50	51	35-65	True
PCB 34 (BZ)			M/M+2	1.10	0.88-1.20	1.216	1.052	-13.5	50	43	35-65	True
PCB 23 (BZ)			M/M+2	0.98	0.88-1.20	1.208	1.144	-5.3	50	47	35-65	True
PCB 29 (BZ)		C26	M/M+2	1.05	0.88-1.20	1.265	1.138	-10.0	100 a	90	70-130	True
PCB 26 (BZ)		C26	M/M+2		0.88-1.20	1.265		0.0	100 a	90	70-130	C26
PCB 25 (BZ)			M/M+2	1.05	0.88-1.20	1.362	1.252	-8.0	50	46	35-65	True
PCB 31 (BZ)			M/M+2	1.07	0.88-1.20	1.285	1.131	-12.0	50	44	35-65	True
PCB 28 (BZ)		C20	M/M+2	1.03	0.88-1.20	1.238	1.114	-10.0	100 a	90	70-130	True
PCB 20 (BZ)		C20	M/M+2		0.88-1.20	1.238		0.0	100 a	90	70-130	C20
PCB 21 (BZ)		C21	M/M+2		0.88-1.20	1.276		0.0	100 a	95	70-130	C21

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

BPW 9/27/07
PMP 9-27-07

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STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1
CCAL Filename: a070927s1
CCAL Sample ID: 2990:71
CCAL Result Dir: /20070927s1/a070927s1.d
CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07
Method: IE3 - IE3
Instrument: M1D
Column SN: 35055-03A
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 33 (BZ)		C21	M/M+2	1.06	0.88-1.20	1.276	1.212	-5.0	100	a	95	70-130	True
	PCB 22 (BZ)			M/M+2	1.03	0.88-1.20	1.218	1.033	-15.2	50		42	35-65	True
	PCB 36 (BZ)			M/M+2	1.05	0.88-1.20	1.286	1.192	-7.3	50		46	35-65	True
	PCB 39 (BZ)			M/M+2	1.06	0.88-1.20	1.330	1.191	-10.5	50		45	35-65	True
	PCB 38 (BZ)			M/M+2	1.04	0.88-1.20	1.246	1.067	-14.4	50		43	35-65	True
	PCB 35 (BZ)			M/M+2	1.04	0.88-1.20	1.195	1.092	-8.7	50		46	35-65	True
	PCB 37 (BZ)	L		M/M+2	1.01	0.88-1.20	1.224	1.086	-11.3	50		44	35-65	True
I	13C12-PCB 54			M/M+2	0.86	0.65-0.89	0.598	0.639	7.0	100		107	50-150	True
R	13C12-PCB 52			M/M+2	0.79	0.65-0.89	1.000	1.000	0.0	100		100	-	
S	13C12-PCB 79			M/M+2	0.79	0.65-0.89	1.089	1.052	-3.4	50		48	35-65	True
I	13C12-PCB 81			M/M+2	0.80	0.65-0.89	1.286	1.245	-3.2	100		97	50-150	True
I	13C12-PCB 77			M/M+2	0.79	0.65-0.89	1.297	1.272	-1.9	100		98	50-150	True
	PCB 54 (BZ)	L		M/M+2	0.81	0.65-0.89	1.211	1.241	2.5	50		51	35-65	True
	PCB 50 (BZ)		C50	M/M+2	0.77	0.65-0.89	0.927	0.898	-3.1	100	a	97	70-130	True
	PCB 53 (BZ)		C50	M/M+2		0.65-0.89	0.927		0.0	100	a	97	70-130	C50
	PCB 45 (BZ)		C45	M/M+2	0.79	0.65-0.89	0.857	0.853	-0.5	100	a	100	70-130	True
	PCB 51 (BZ)		C45	M/M+2		0.65-0.89	0.857		0.0	100	a	100	70-130	C45
	PCB 46 (BZ)			M/M+2	0.80	0.65-0.89	0.706	0.704	-0.3	50		50	35-65	True
	PCB 52 (BZ)			M/M+2	0.78	0.65-0.89	0.926	0.800	-13.6	50		43	35-65	True
	PCB 73 (BZ)		C43	M/M+2	0.77	0.65-0.89	0.957	0.931	-2.8	100	a	97	70-130	True
	PCB 43 (BZ)		C43	M/M+2		0.65-0.89	0.957		0.0	100	a	97	70-130	C43
	PCB 69 (BZ)			M/M+2	0.75	0.65-0.89	1.180	1.061	-10.1	50		45	35-65	True
	PCB 49 (BZ)			M/M+2	0.78	0.65-0.89	1.005	0.980	-2.6	50		49	35-65	True
	PCB 48 (BZ)			M/M+2	0.80	0.65-0.89	0.886	0.788	-11.1	50		44	35-65	True
	PCB 65 (BZ)		C44	M/M+2	0.79	0.65-0.89	1.024	0.922	-9.9	150	a	135	105-195	True
	PCB 47 (BZ)		C44	M/M+2		0.65-0.89	1.024		0.0	150	a	135	105-195	C44
	PCB 44 (BZ)		C44	M/M+2		0.65-0.89	1.024		0.0	150	a	135	105-195	C44
	PCB 62 (BZ)		C59	M/M+2	0.78	0.65-0.89	1.297	1.212	-6.5	150	a	140	105-195	True
	PCB 75 (BZ)		C59	M/M+2		0.65-0.89	1.297		0.0	150	a	140	105-195	C59
	PCB 59 (BZ)		C59	M/M+2		0.65-0.89	1.297		0.0	150	a	140	105-195	C59
	PCB 42 (BZ)			M/M+2	0.78	0.65-0.89	0.860	0.816	-5.1	50		47	35-65	True
	PCB 41 (BZ)			M/M+2	0.79	0.65-0.89	0.723	0.585	-19.1	50		40	35-65	True
	PCB 71 (BZ)		C40	M/M+2	0.78	0.65-0.89	0.953	0.918	-3.7	100	a	96	70-130	True
	PCB 40 (BZ)		C40	M/M+2		0.65-0.89	0.953		0.0	100	a	96	70-130	C40
	PCB 64 (BZ)			M/M+2	0.76	0.65-0.89	1.313	1.264	-3.7	50		48	35-65	True
	PCB 72 (BZ)			M/M+2	0.78	0.65-0.89	1.257	1.121	-10.8	50		45	35-65	True
	PCB 68 (BZ)			M/M+2	0.78	0.65-0.89	1.327	1.130	-14.9	50		43	35-65	True
	PCB 57 (BZ)			M/M+2	0.77	0.65-0.89	1.194	1.095	-8.3	50		46	35-65	True
	PCB 58 (BZ)			M/M+2	0.77	0.65-0.89	1.260	1.093	-13.2	50		43	35-65	True
	PCB 67 (BZ)			M/M+2	0.78	0.65-0.89	1.286	1.251	-2.7	50		49	35-65	True
	PCB 63 (BZ)			M/M+2	0.75	0.65-0.89	1.339	1.157	-13.6	50		43	35-65	True
	PCB 61 (BZ)			M/M+2	0.75	0.65-0.89	1.190	0.978	-17.8	50		41	35-65	True
	PCB 70 (BZ)		C70	M/M+2	0.77	0.65-0.89	1.317	1.183	-10.2	150	a	135	105-195	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

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STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1

CCAL Filename: a070927s1

CCAL Sample ID: 2990:71

CCAL Result Dir: /20070927s1/a070927s1.d

CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07

Method: IE3 - IE3

Instrument: M1D

Column SN: 35055-03A

Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 76 (BZ)		C70	M/M+2		0.65-0.89	1.317		0.0	150 a	135	105-195	C70
	PCB 74 (BZ)		C70	M/M+2		0.65-0.89	1.317		0.0	150 a	135	105-195	C70
	PCB 66 (BZ)			M/M+2	0.77	0.65-0.89	1.289	1.062	-17.7	50	41	35-65	True
	PCB 55 (BZ)			M/M+2	0.77	0.65-0.89	1.161	0.984	-15.2	50	42	35-65	True
	PCB 56 (BZ)			M/M+2	0.79	0.65-0.89	1.231	1.057	-14.1	50	43	35-65	True
	PCB 60 (BZ)			M/M+2	0.77	0.65-0.89	1.191	1.112	-6.6	50	47	35-65	True
	PCB 80 (BZ)			M/M+2	0.79	0.65-0.89	1.416	1.368	-3.4	50	48	35-65	True
	PCB 79 (BZ)			M/M+2	0.75	0.65-0.89	1.371	1.246	-9.1	50	45	35-65	True
	PCB 78 (BZ)			M/M+2	0.77	0.65-0.89	1.181	1.131	-4.3	50	48	35-65	True
	PCB 81 (BZ)	T		M/M+2	0.78	0.65-0.89	1.317	1.188	-9.8	50	45	35-65	True
	PCB 77 (BZ)	T		M/M+2	0.78	0.65-0.89	1.200	1.105	-7.9	50	46	35-65	True
I	13C12-PCB 104			M+2/M+4	1.66	1.32-1.78	1.260	1.312	4.1	100	104	50-150	True
S	13C12-PCB 95			M+2/M+4	1.67	1.32-1.78	0.741	0.717	-3.2	50	48	35-65	True
R	13C12-PCB 101			M+2/M+4	1.70	1.32-1.78	1.000	1.000	0.0	100	100	-	
C	13C12-PCB 111			M+2/M+4	1.63	1.32-1.78	1.229	1.282	4.3	50	52	35-65 b	True
I	13C12-PCB 123			M+2/M+4	1.59	1.32-1.78	0.955	0.947	-0.8	100	99	50-150	True
I	13C12-PCB 118			M+2/M+4	1.64	1.32-1.78	0.988	1.024	3.7	100	104	50-150	True
I	13C12-PCB 114			M+2/M+4	1.63	1.32-1.78	0.971	0.951	-2.0	100	98	50-150	True
I	13C12-PCB 105			M+2/M+4	1.68	1.32-1.78	0.941	0.943	0.2	100	100	50-150	True
R	13C12-PCB 127			M+2/M+4	1.61	1.32-1.78	1.000	1.000	0.0	100	100	-	
I	13C12-PCB 126			M+2/M+4	1.63	1.32-1.78	0.978	0.998	2.1	100	102	50-150	True
	PCB 104 (BZ)	L		M+2/M+4	1.60	1.32-1.78	1.149	1.106	-3.8	50	48	35-65	True
	PCB 96 (BZ)			M+2/M+4	1.64	1.32-1.78	1.014	0.968	-4.5	50	48	35-65	True
	PCB 103 (BZ)			M+2/M+4	1.66	1.32-1.78	0.866	0.801	-7.5	50	46	35-65	True
	PCB 94 (BZ)			M+2/M+4	1.60	1.32-1.78	0.703	0.721	2.6	50	51	35-65	True
	PCB 95 (BZ)		C95	M+2/M+4	1.61	1.32-1.78	0.859	0.806	-6.2	100 a	94	70-130	True
	PCB 100 (BZ)		C95	M+2/M+4		1.32-1.78	0.859		0.0	100 a	94	70-130	C95
	PCB 93 (BZ)			M+2/M+4	1.60	1.32-1.78	0.701	0.650	-7.3	50	46	35-65	True
	PCB 102 (BZ)		C98	M+2/M+4	1.61	1.32-1.78	0.822	0.822	0.0	100 a	100	70-130	True
	PCB 98 (BZ)		C98	M+2/M+4		1.32-1.78	0.822		0.0	100 a	100	70-130	C98
	PCB 88 (BZ)			M+2/M+4	1.55	1.32-1.78	0.723	0.641	-11.4	50	44	35-65	True
	PCB 91 (BZ)			M+2/M+4	1.55	1.32-1.78	0.864	0.834	-3.5	50	48	35-65	True
	PCB 84 (BZ)			M+2/M+4	1.63	1.32-1.78	0.679	0.578	-15.0	50	43	35-65	True
	PCB 89 (BZ)			M+2/M+4	1.58	1.32-1.78	0.717	0.665	-7.3	50	46	35-65	True
	PCB 121 (BZ)			M+2/M+4	1.62	1.32-1.78	1.105	1.090	-1.4	50	49	35-65	True
	PCB 92 (BZ)			M+2/M+4	1.67	1.32-1.78	0.772	0.729	-5.6	50	47	35-65	True
	PCB 113 (BZ)		C90	M+2/M+4	1.60	1.32-1.78	0.990	0.939	-5.1	150 a	142	105-195	True
	PCB 90 (BZ)		C90	M+2/M+4		1.32-1.78	0.990		0.0	150 a	142	105-195	C90
	PCB 101 (BZ)		C90	M+2/M+4		1.32-1.78	0.990		0.0	150 a	142	105-195	C90
	PCB 83 (BZ)		C83	M+2/M+4	1.56	1.32-1.78	0.777	0.725	-6.6	100 a	93	70-130	True
	PCB 99 (BZ)		C83	M+2/M+4		1.32-1.78	0.777		0.0	100 a	93	70-130	C83
	PCB 112 (BZ)			M+2/M+4	1.62	1.32-1.78	1.079	1.064	-1.4	50	49	35-65	True
	PCB 109 (BZ)/108 (IUPAC)		C86	M+2/M+4	1.58	1.32-1.78	0.967	0.930	-3.8	300 a	288	210-390	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

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STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1

CCAL Filename: a070927s1

CCAL Sample ID: 2990:71

CCAL Result Dir: /20070927s1/a070927s1.d

CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07

Method: IE3 - IE3

Instrument: M1D

Column SN: 35055-03A

Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 86 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	288	210-390	C86
	PCB 119 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	288	210-390	C86
	PCB 97 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	288	210-390	C86
	PCB 125 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	288	210-390	C86
	PCB 87 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	288	210-390	C86
	PCB 117 (BZ)		C85	M+2/M+4	1.60	1.32-1.78	0.979	0.905	-7.6	150	a	139	105-195	True
	PCB 116 (BZ)		C85	M+2/M+4		1.32-1.78	0.979		0.0	150	a	139	105-195	C85
	PCB 85 (BZ)		C85	M+2/M+4		1.32-1.78	0.979		0.0	150	a	139	105-195	C85
	PCB 110 (BZ)		C110	M+2/M+4	1.60	1.32-1.78	1.139	1.114	-2.1	100	a	98	70-130	True
	PCB 115 (BZ)		C110	M+2/M+4		1.32-1.78	1.139		0.0	100	a	98	70-130	C110
	PCB 82 (BZ)			M+2/M+4	1.64	1.32-1.78	0.605	0.550	-9.0	50		46	35-65	True
	PCB 111 (BZ)			M+2/M+4	1.61	1.32-1.78	1.129	1.097	-2.8	50		49	35-65	True
	PCB 120 (BZ)			M+2/M+4	1.59	1.32-1.78	1.192	1.080	-9.4	50		45	35-65	True
	PCB 124 (BZ)		C108	M+2/M+4		1.32-1.78	1.123		0.0	100	a	92	70-130	C108
	PCB 108 (BZ)/107 (IUPAC)		C108	M+2/M+4	1.60	1.32-1.78	1.123	1.034	-7.9	100	a	92	70-130	True
	PCB 107 (BZ)/109 (IUPAC)			M+2/M+4	1.56	1.32-1.78	1.074	1.008	-6.2	50		47	35-65	True
	PCB 123 (BZ)	T		M+2/M+4	1.62	1.32-1.78	1.136	1.074	-5.4	50		47	35-65	True
	PCB 106 (BZ)			M+2/M+4	1.62	1.32-1.78	1.046	0.971	-7.2	50		46	35-65	True
	PCB 118 (BZ)	T		M+2/M+4	1.59	1.32-1.78	1.094	1.013	-7.4	50		46	35-65	True
	PCB 122 (BZ)			M+2/M+4	1.55	1.32-1.78	1.047	0.941	-10.2	50		45	35-65	True
	PCB 114 (BZ)	T		M+2/M+4	1.60	1.32-1.78	1.196	1.132	-5.3	50		47	35-65	True
	PCB 105 (BZ)	T		M+2/M+4	1.58	1.32-1.78	1.218	1.075	-11.7	50		44	35-65	True
	PCB 127 (BZ)			M+2/M+4	1.59	1.32-1.78	1.130	1.067	-5.6	50		47	35-65	True
	PCB 126 (BZ)	T		M+2/M+4	1.63	1.32-1.78	1.111	0.989	-10.9	50		45	35-65	True
I	13C12-PCB 155			M+2/M+4	1.28	1.05-1.43	1.178	1.351	14.7	100		115	50-150	True
S	13C12-PCB 153			M+2/M+4	1.30	1.05-1.43	0.833	0.799	-4.1	50		48	35-65	True
R	13C12-PCB 138			M+2/M+4	1.30	1.05-1.43	1.000	1.000	0.0	100		100	-	
I	13C12-PCB 167			M+2/M+4	1.30	1.05-1.43	1.237	1.299	5.0	100		105	50-150	True
I	13C12-PCB 156			M+2/M+4	1.29	1.05-1.43	1.229	1.287	4.7	200		209	100-300	True
I	13C12-PCB 157			M+2/M+4		1.05-1.43	0.000		0.0	0		0	0-0	C156L
I	13C12-PCB 169			M+2/M+4	1.31	1.05-1.43	1.188	1.196	0.7	100		101	50-150	True
	PCB 155 (BZ)	L		M+2/M+4	1.30	1.05-1.43	1.117	1.054	-5.6	50		47	35-65	True
	PCB 152 (BZ)			M+2/M+4	1.26	1.05-1.43	1.023	0.936	-8.5	50		46	35-65	True
	PCB 150 (BZ)			M+2/M+4	1.36	1.05-1.43	1.032	0.979	-5.2	50		47	35-65	True
	PCB 136 (BZ)			M+2/M+4	1.30	1.05-1.43	0.967	0.891	-7.8	50		46	35-65	True
	PCB 145 (BZ)			M+2/M+4	1.26	1.05-1.43	1.021	0.960	-5.9	50		47	35-65	True
	PCB 148 (BZ)			M+2/M+4	1.26	1.05-1.43	0.749	0.712	-4.9	50		48	35-65	True
	PCB 151 (BZ)		C135	M+2/M+4		1.05-1.43	0.781		0.0	150	a	141	105-195	C135
	PCB 135 (BZ)		C135	M+2/M+4	1.27	1.05-1.43	0.781	0.734	-5.9	150	a	141	105-195	True
	PCB 154 (BZ)		C135	M+2/M+4		1.05-1.43	0.781		0.0	150	a	141	105-195	C135
	PCB 144 (BZ)			M+2/M+4	1.29	1.05-1.43	0.759	0.724	-4.5	50		48	35-65	True
	PCB 147 (BZ)		C147	M+2/M+4	1.25	1.05-1.43	0.862	0.812	-5.7	100	a	94	70-130	True
	PCB 149 (BZ)		C147	M+2/M+4		1.05-1.43	0.862		0.0	100	a	94	70-130	C147

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

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STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1
CCAL Filename: a070927s1
CCAL Sample ID: 2990:71
CCAL Result Dir: /20070927s1/a070927s1.d
CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07
Method: IE3 - IE3
Instrument: M1D
Column SN: 35055-03A
Column Desc: SPB-Octy1 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit		Valid?
	PCB 134 (BZ)		C134	M+2/M+4		1.05-1.43	0.711		0.0	100	a	96	70-130		C134
	PCB 143 (BZ)		C134	M+2/M+4	1.25	1.05-1.43	0.711	0.686	-3.5	100	a	96	70-130		True
	PCB 139 (BZ)		C139	M+2/M+4	1.26	1.05-1.43	0.856	0.826	-3.5	100	a	97	70-130		True
	PCB 140 (BZ)		C139	M+2/M+4		1.05-1.43	0.856		0.0	100	a	97	70-130		C139
	PCB 131 (BZ)			M+2/M+4	1.27	1.05-1.43	0.713	0.677	-5.1	50		47	35-65		True
	PCB 142 (BZ)			M+2/M+4	1.27	1.05-1.43	0.735	0.672	-8.5	50		46	35-65		True
	PCB 132 (BZ)			M+2/M+4	1.28	1.05-1.43	0.710	0.672	-5.4	50		47	35-65		True
	PCB 133 (BZ)			M+2/M+4	1.20	1.05-1.43	0.768	0.726	-5.5	50		47	35-65		True
	PCB 165 (BZ)			M+2/M+4	1.30	1.05-1.43	0.993	0.960	-3.3	50		48	35-65		True
	PCB 146 (BZ)			M+2/M+4	1.40	1.05-1.43	0.874	0.830	-5.0	50		47	35-65		True
	PCB 161 (BZ)			M+2/M+4	1.17	1.05-1.43	1.090	1.083	-0.6	50		50	35-65		True
	PCB 153 (BZ)		C153	M+2/M+4	1.28	1.05-1.43	1.068	1.050	-1.7	100	a	98	70-130		True
	PCB 168 (BZ)		C153	M+2/M+4		1.05-1.43	1.068		0.0	100	a	98	70-130		C153
	PCB 141 (BZ)			M+2/M+4	1.22	1.05-1.43	0.756	0.768	1.6	50		51	35-65		True
	PCB 130 (BZ)			M+2/M+4	1.23	1.05-1.43	0.708	0.672	-5.2	50		47	35-65		True
	PCB 137 (BZ)			M+2/M+4	1.27	1.05-1.43	0.835	0.833	-0.3	50		50	35-65		True
	PCB 164 (BZ)			M+2/M+4	1.28	1.05-1.43	1.033	1.008	-2.5	50		49	35-65		True
	PCB 138 (BZ)		C129	M+2/M+4	1.30	1.05-1.43	0.922	0.890	-3.5	200	a	193	140-260		True
	PCB 163 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200	a	193	140-260		C129
	PCB 129 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200	a	193	140-260		C129
	PCB 160 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200	a	193	140-260		C129
	PCB 158 (BZ)			M+2/M+4	1.23	1.05-1.43	1.191	1.151	-3.4	50		48	35-65		True
	PCB 166 (BZ)			M+2/M+4	1.24	1.05-1.43	1.102	1.036	-6.0	50		47	35-65		True
	PCB 128 (BZ)			M+2/M+4	1.26	1.05-1.43	0.769	0.736	-4.2	50		48	35-65		True
	PCB 159 (BZ)			M+2/M+4	1.21	1.05-1.43	1.079	1.018	-5.7	50		47	35-65		True
	PCB 162 (BZ)			M+2/M+4	1.29	1.05-1.43	1.079	1.051	-2.6	50		49	35-65		True
	PCB 167 (BZ)	T		M+2/M+4	1.29	1.05-1.43	1.150	1.050	-8.7	50		46	35-65		True
	PCB 156 (BZ)	T	C156	M+2/M+4		1.05-1.43	1.151		0.0	100	a	90	70-130		C156
	PCB 157 (BZ)	T	C156	M+2/M+4		1.05-1.43	1.151		0.0	0	a	90	0-0		C156
	PCB 169 (BZ)	T		M+2/M+4	1.25	1.05-1.43	1.337	1.155	-13.6	50		43	35-65		True
I	13C12-PCB 188			M+2/M+4	1.04	0.89-1.21	1.238	1.263	2.0	100		102	50-150		True
C	13C12-PCB 178			M+2/M+4	1.06	0.89-1.21	0.863	0.819	-5.1	50		47	35-65	b	True
R	13C12-PCB 180			M+2/M+4	1.05	0.89-1.21	1.000	1.000	0.0	100		100	-		
I	13C12-PCB 170			M+2/M+4	1.03	0.89-1.21	0.813	0.829	1.9	100		102	50-150		True
I	13C12-PCB 189			M+2/M+4	1.07	0.89-1.21	1.620	1.586	-2.1	100		98	50-150		True
	PCB 188 (BZ)	L		M+2/M+4	1.03	0.89-1.21	1.071	1.013	-5.4	50		47	35-65		True
	PCB 179 (BZ)			M+2/M+4	1.05	0.89-1.21	1.200	1.165	-2.9	50		49	35-65		True
	PCB 184 (BZ)			M+2/M+4	1.06	0.89-1.21	1.178	1.109	-5.9	50		47	35-65		True
	PCB 176 (BZ)			M+2/M+4	1.05	0.89-1.21	1.252	1.225	-2.1	50		49	35-65		True
	PCB 186 (BZ)			M+2/M+4	1.06	0.89-1.21	1.214	1.144	-5.8	50		47	35-65		True
	PCB 178 (BZ)			M+2/M+4	1.02	0.89-1.21	0.889	0.835	-6.1	50		47	35-65		True
	PCB 175 (BZ)			M+2/M+4	1.07	0.89-1.21	0.920	0.896	-2.6	50		49	35-65		True
	PCB 187 (BZ)			M+2/M+4	1.01	0.89-1.21	1.009	0.933	-7.5	50		46	35-65		True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

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STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1
CCAL Filename: a070927s1
CCAL Sample ID: 2990:71
CCAL Result Dir: /20070927s1/a070927s1.d
CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07
Method: IE3 - IE3
Instrument: M1D
Column SN: 35055-03A
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 182 (BZ)			M+2/M+4	1.09	0.89-1.21	0.972	0.957	-1.5	50	49	35-65	True
	PCB 183 (BZ)			M+2/M+4	1.06	0.89-1.21	0.946	0.924	-2.4	50	49	35-65	True
	PCB 185 (BZ)			M+2/M+4	1.07	0.89-1.21	0.919	0.859	-6.5	50	47	35-65	True
	PCB 174 (BZ)			M+2/M+4	1.07	0.89-1.21	0.924	0.867	-6.2	50	47	35-65	True
	PCB 177 (BZ)			M+2/M+4	1.10	0.89-1.21	0.880	0.808	-8.2	50	46	35-65	True
	PCB 181 (BZ)			M+2/M+4	1.05	0.89-1.21	0.975	0.894	-8.3	50	46	35-65	True
	PCB 171 (BZ)		C171	M+2/M+4		0.89-1.21	0.835		0.0	100 a	94	70-130	C171
	PCB 173 (BZ)		C171	M+2/M+4	1.05	0.89-1.21	0.835	0.788	-5.6	100 a	94	70-130	True
	PCB 172 (BZ)			M+2/M+4	1.08	0.89-1.21	0.838	0.758	-9.6	50	45	35-65	True
	PCB 192 (BZ)			M+2/M+4	1.06	0.89-1.21	1.147	1.071	-6.7	50	47	35-65	True
	PCB 193 (BZ)		C180	M+2/M+4	1.04	0.89-1.21	1.134	1.088	-4.0	100 a	96	70-130	True
	PCB 180 (BZ)		C180	M+2/M+4		0.89-1.21	1.134		0.0	100 a	96	70-130	C180
	PCB 191 (BZ)			M+2/M+4	1.03	0.89-1.21	1.228	1.157	-5.7	50	47	35-65	True
	PCB 170 (BZ)			M+2/M+4	1.05	0.89-1.21	1.058	1.007	-4.8	50	48	35-65	True
	PCB 190 (BZ)			M+2/M+4	1.04	0.89-1.21	1.254	1.213	-3.2	50	48	35-65	True
	PCB 189 (BZ)	T		M+2/M+4	1.05	0.89-1.21	1.097	1.035	-5.7	50	47	35-65	True
I	13C12-PCB 202			M+2/M+4	0.92	0.76-1.02	0.994	1.110	11.7	100	112	50-150	True
R	13C12-PCB 194			M+2/M+4	0.92	0.76-1.02	1.000	1.000	0.0	100	100	-	
I	13C12-PCB 205			M+2/M+4	0.91	0.76-1.02	1.407	1.464	4.0	100	104	50-150	True
	PCB 202 (BZ)	L		M+2/M+4	0.88	0.76-1.02	0.993	0.914	-7.9	50	46	35-65	True
	PCB 200 (BZ)/201 (IUPAC)			M+2/M+4	0.87	0.76-1.02	1.087	1.013	-6.8	50	47	35-65	True
	PCB 204 (BZ)			M+2/M+4	0.89	0.76-1.02	1.033	0.949	-8.1	50	46	35-65	True
	PCB 197 (BZ)			M+2/M+4	0.90	0.76-1.02	1.061	1.001	-5.7	50	47	35-65	True
	PCB 199 (BZ)/200 (IUPAC)			M+2/M+4	0.89	0.76-1.02	1.031	0.954	-7.4	50	46	35-65	True
	PCB 198 (BZ)		C198	M+2/M+4	0.88	0.76-1.02	0.761	0.696	-8.6	100 a	91	70-130	True
	PCB 201 (BZ)/199 (IUPAC)		C198	M+2/M+4		0.76-1.02	0.761		0.0	100 a	91	70-130	C198
	PCB 196 (BZ)			M+2/M+4	0.91	0.76-1.02	0.752	0.698	-7.2	50	46	35-65	True
	PCB 203 (BZ)			M+2/M+4	0.92	0.76-1.02	0.856	0.785	-8.3	50	46	35-65	True
	PCB 195 (BZ)			M+2/M+4	0.93	0.76-1.02	0.723	0.694	-4.0	50	48	35-65	True
	PCB 194 (BZ)			M+2/M+4	0.91	0.76-1.02	0.795	0.742	-6.7	50	47	35-65	True
	PCB 205 (BZ)	L		M+2/M+4	0.90	0.76-1.02	0.984	0.920	-6.5	50	47	35-65	True
I	13C12-PCB 208			M+2/M+4	0.78	0.65-0.89	1.161	1.396	20.2	100	120	50-150	True
I	13C12-PCB 206			M+2/M+4	0.80	0.65-0.89	0.823	0.910	10.6	100	111	50-150	True
	PCB 208 (BZ)	L		M+2/M+4	0.78	0.65-0.89	1.026	0.949	-7.5	50	46	35-65	True
	PCB 207 (BZ)			M+2/M+4	0.77	0.65-0.89	1.264	1.160	-8.2	50	46	35-65	True
	PCB 206 (BZ)	L		M+2/M+4	0.79	0.65-0.89	1.097	1.031	-6.1	50	47	35-65	True
I	13C12-PCB 209			M+2/M+4	0.70	0.59-0.79	0.930	1.130	21.5	100	121	50-150	True
	PCB 209 (BZ)	L		M+2/M+4	0.72	0.59-0.79	1.006	0.920	-8.6	50	46	35-65	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

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STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1

CCAL Filename: a070927s1

CCAL Sample ID: 2990:71

CCAL Result Dir: /20070927s1/a070927s1.d

CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07

Method: IE3 - IE3

Instrument: M1D

Column SN: 35055-03A

Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 187 False: 0 Warning: ~~25~~ 22 BFN 9/27/07

Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
I 13C12-PCB 1			12:12	12:15	3	15	0.7323	0.7335	0.7173-0.7473	True
I 13C12-PCB 3			14:25	14:29	4	15	0.8653	0.8673	0.8503-0.8803	True
PCB 1 (BZ)	L		12:13	12:17	4		1.0015	1.0027	0.9946-1.0083	True
PCB 2 (BZ)			14:16	14:18	2		0.9894	0.9873	0.9859-0.9928	True
PCB 3 (BZ)	L		14:26	14:30	4		1.0009	1.0012	0.9975-1.0044	True
I 13C12-PCB 4			14:42	14:46	4	15	0.8827	0.8842	0.8677-0.8977	True
R 13C12-PCB 9			16:39	16:42	3		1.0000	1.0000	0.9875-1.0125	True
S 13C12-PCB 8			17:32	17:36	4		1.1927	1.1919	1.1893-1.1961	True
I 13C12-PCB 15			20:41	20:45	4	15	1.2412	1.2425	1.2312-1.2512	True
PCB 4 (BZ)	L		14:43	14:47	4		1.0012	1.0011	0.9955-1.0069	True
PCB 10 (BZ)			14:54	14:56	2		1.0129	1.0113	1.0095-1.0163	True
PCB 9 (BZ)			16:41	16:43	2		1.1349	1.1321	1.1315-1.1383	True
PCB 7 (BZ)			16:50	16:52	2		1.1451	1.1422	1.1417-1.1485	True
PCB 6 (BZ)			17:07	17:10	3		1.1647	1.1625	1.1613-1.1681	True
PCB 5 (BZ)			17:26	17:29	3		1.1859	1.1840	1.1825-1.1893	True
PCB 8 (BZ)			17:34	17:37	3		1.1946	1.1930	1.1912-1.1980	True
PCB 14 (BZ)			19:09	19:11	2		0.9264	0.9245	0.9239-0.9288	True
PCB 11 (BZ)			20:04	20:06	2		0.9704	0.9687	0.9680-0.9728	True
PCB 13 (BZ)		C12	20:20				0.9836		0.9811-0.9860	C12
PCB 12 (BZ)		C12	20:23	20:26	3		0.9857	0.9847	0.9833-0.9881	True
PCB 15 (BZ)	L		20:41	20:46	5		1.0007	1.0008	0.9967-1.0048	True
I 13C12-PCB 19			17:53	17:57	4	15	0.8458	0.8474	0.8340-0.8576	True
R 13C12-PCB 32			21:09	21:11	2		1.0000	1.0000	0.9976-1.0024	True
R 13C12-PCB 31			23:24	23:25	1		1.0000	1.0000	0.9979-1.0021	True
C 13C12-PCB 28			23:41	23:42	1		1.0123	1.0121	1.0052-1.0195	True
I 13C12-PCB 37			27:46	27:49	3	15	1.1869	1.1879	1.1762-1.1976	True
PCB 19 (BZ)	L		17:55	17:58	3		1.0014	1.0009	0.9967-1.0060	True
PCB 30 (BZ)			19:38	19:38	0		1.0982	1.0938	1.0955-1.1010	Warning
PCB 18 (BZ)			19:45	19:48	3		1.1048	1.1031	1.1020-1.1076	True
PCB 17 (BZ)			20:10	20:12	2		1.1271	1.1253	1.1243-1.1299	True
PCB 27 (BZ)			20:25	20:27	2		1.1414	1.1393	1.1386-1.1442	True
PCB 24 (BZ)			20:31	20:33	2		1.1473	1.1448	1.1445-1.1501	True
PCB 16 (BZ)			20:41	20:45	4		1.1560	1.1560	1.1532-1.1588	True
PCB 32 (BZ)			21:11	21:12	1		1.1839	1.1811	1.1812-1.1867	Warning
PCB 34 (BZ)			22:24	22:24	0		1.2523	1.2479	1.2495-1.2550	Warning
PCB 23 (BZ)			22:31	22:32	1		1.2591	1.2553	1.2563-1.2619	Warning
PCB 29 (BZ)		C26	22:51	22:53	2		1.2771	1.2748	1.2724-1.2818	True
PCB 26 (BZ)		C26	22:52				1.2790		1.2743-1.2836	C26
PCB 25 (BZ)			23:05	23:07	2		0.8313	0.8310	0.8295-0.8331	True
PCB 31 (BZ)			23:26	23:28	2		0.8437	0.8436	0.8419-0.8455	True
PCB 28 (BZ)		C20	23:42	23:44	2		0.8537	0.8532	0.8507-0.8567	True
PCB 20 (BZ)		C20	23:47				0.8565		0.8535-0.8595	C20
PCB 21 (BZ)		C21	23:54				0.8607		0.8577-0.8637	C21
PCB 33 (BZ)		C21	24:00	24:01	1		0.8643	0.8634	0.8613-0.8673	True
PCB 22 (BZ)			24:24	24:27	3		0.8787	0.8790	0.8769-0.8805	True
PCB 36 (BZ)			25:55	25:54	-1		0.9329	0.9311	0.9311-0.9347	True
PCB 39 (BZ)			26:16	26:18	2		0.9459	0.9455	0.9441-0.9477	True
PCB 38 (BZ)			26:52	26:52	0		0.9672	0.9658	0.9654-0.9690	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1
CCAL Filename: a070927s1
CCAL Sample ID: 2990:71
CCAL Result Dir: /20070927s1/a070927s1.d
CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07
Method: IE3 - IE3
Instrument: M1D
Column SN: 35055-03A
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 187 False: 0 Warning: 23

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 35 (BZ)			27:23	27:25	2		0.9862	0.9856	0.9844-0.9880	True
	PCB 37 (BZ)	L		27:48	27:50	2		1.0006	1.0006	0.9988-1.0024	True
I	13C12-PCB 54			21:02	21:06	4	15	0.8233	0.8258	0.8168-0.8298	True
R	13C12-PCB 52			25:33	25:33	0		1.0000	1.0000	0.9918-1.0082	True
S	13C12-PCB 79			33:28	33:27	-1		0.9699	0.9691	0.9685-0.9714	True
I	13C12-PCB 81			34:30	34:31	1	15	1.3506	1.3509	1.3440-1.3571	True
I	13C12-PCB 77			35:06	35:08	2	15	1.3737	1.3751	1.3672-1.3803	True
	PCB 54 (BZ)	L		21:03	21:07	4		1.0006	1.0008	0.9967-1.0046	True
	PCB 50 (BZ)		C50	23:10	23:14	4		1.1015	1.1011	1.0976-1.1055	True
	PCB 53 (BZ)		C50	23:11				1.1026		1.0986-1.1065	C50
	PCB 45 (BZ)		C45	23:53	23:56	3		1.1361	1.1343	1.1322-1.1401	True
	PCB 51 (BZ)		C45	23:56				1.1377		1.1337-1.1417	C45
	PCB 46 (BZ)			24:14	24:16	2		1.1520	1.1501	1.1496-1.1543	True
	PCB 52 (BZ)			25:34	25:34	0		1.2161	1.2117	1.2138-1.2185	Warning
	PCB 73 (BZ)		C43	25:41	25:42	1		1.2214	1.2180	1.2190-1.2238	Warning
	PCB 43 (BZ)		C43	25:47				1.2262		1.2238-1.2285	C43
	PCB 69 (BZ)			25:56	25:55	-1		1.2330	1.2283	1.2291-1.2370	Warning
	PCB 49 (BZ)			26:03	26:03	0		1.2386	1.2346	1.2346-1.2425	True
	PCB 48 (BZ)			26:19	26:19	0		1.2515	1.2472	1.2491-1.2539	Warning
	PCB 65 (BZ)		C44	26:32	26:32	0		1.2616	1.2575	1.2576-1.2655	Warning
	PCB 47 (BZ)		C44	26:34				1.2634		1.2594-1.2674	C44
	PCB 44 (BZ)		C44	26:36				1.2647		1.2608-1.2687	C44
	PCB 62 (BZ)		C59	26:48	26:49	1		1.2745	1.2709	1.2705-1.2785	True
	PCB 75 (BZ)		C59	26:52				1.2779		1.2740-1.2819	C59
	PCB 59 (BZ)		C59	26:55				1.2795		1.2756-1.2835	C59
	PCB 42 (BZ)			27:07	27:08	1		1.2893	1.2859	1.2869-1.2917	Warning
	PCB 41 (BZ)			27:32	27:33	1		1.3088	1.3057	1.3049-1.3128	True
	PCB 71 (BZ)		C40	27:37	27:39	2		1.3133	1.3104	1.3094-1.3173	True
	PCB 40 (BZ)		C40	27:40				1.3157		1.3117-1.3197	C40
	PCB 64 (BZ)			27:49	27:50	1		1.3228	1.3191	1.3204-1.3252	Warning
	PCB 72 (BZ)			28:37	28:34	-3		0.8292	0.8276	0.8278-0.8307	Warning
	PCB 68 (BZ)			28:52	28:51	-1		0.8368	0.8358	0.8353-0.8382	True
	PCB 57 (BZ)			29:19	29:18	-1		0.8500	0.8489	0.8485-0.8514	True
	PCB 58 (BZ)			29:35	29:35	0		0.8576	0.8571	0.8561-0.8590	True
	PCB 67 (BZ)			29:42	29:42	0		0.8611	0.8605	0.8597-0.8626	True
	PCB 63 (BZ)			30:00	29:58	-2		0.8693	0.8682	0.8679-0.8708	True
	PCB 61 (BZ)			30:13	30:12	-1		0.8758	0.8749	0.8729-0.8786	True
	PCB 70 (BZ)		C70	30:21	30:21	0		0.8795	0.8793	0.8766-0.8824	True
	PCB 76 (BZ)		C70	30:21				0.8798		0.8769-0.8827	C70
	PCB 74 (BZ)		C70	30:23				0.8807		0.8783-0.8832	C70
	PCB 66 (BZ)			30:41	30:40	-1		0.8896	0.8885	0.8881-0.8910	True
	PCB 55 (BZ)			30:53	30:53	0		0.8951	0.8947	0.8936-0.8965	True
	PCB 56 (BZ)			31:24	31:26	2		0.9100	0.9107	0.9086-0.9115	True
	PCB 60 (BZ)			31:36	31:37	1		0.9160	0.9160	0.9146-0.9174	True
	PCB 80 (BZ)			31:52	31:51	-1		0.9239	0.9227	0.9224-0.9253	True
	PCB 79 (BZ)			33:30	33:29	-1		0.9709	0.9701	0.9694-0.9723	True
	PCB 78 (BZ)			34:05	34:04	-1		0.9876	0.9870	0.9862-0.9891	True
	PCB 81 (BZ)	T		34:32	34:33	1		1.0008	1.0010	0.9994-1.0023	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1

CCAL Filename: a070927s1

CCAL Sample ID: 2990:71

CCAL Result Dir: /20070927s1/a070927s1.d

CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07

Method: IE3 - IE3

Instrument: M1D

Column SN: 35055-03A

Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 187 False: 0 Warning: 23

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 77 (BZ)	T		35:07	35:09	2		1.0004	1.0005	0.9990-1.0018	True
I	13C12-PCB 104			26:28	26:28	0	15	0.8182	0.8190	0.8131-0.8234	True
S	13C12-PCB 95			29:30	29:30	0		1.1143	1.1146	1.1111-1.1174	True
R	13C12-PCB 101			32:21	32:19	-2		1.0000	1.0000	0.9936-1.0064	True
C	13C12-PCB 111			34:59	34:55	-4		1.0813	1.0805	1.0761-1.0864	True
I	13C12-PCB 123			37:01	36:59	-2	15	1.1438	1.1444	1.1386-1.1489	True
I	13C12-PCB 118			37:20	37:18	-2	15	1.1537	1.1542	1.1486-1.1589	True
I	13C12-PCB 114			37:52	37:50	-2	15	1.1705	1.1707	1.1653-1.1756	True
I	13C12-PCB 105			38:35	38:35	0	15	1.1923	1.1939	1.1871-1.1974	True
R	13C12-PCB 127			39:58	39:55	-3		1.0000	1.0000	0.9948-1.0052	True
I	13C12-PCB 126			41:38	41:38	0	15	1.2868	1.2883	1.2817-1.2920	True
	PCB 104 (BZ)	L		26:30	26:29	-1		1.0007	1.0006	0.9975-1.0038	True
	PCB 96 (BZ)			26:59	27:00	1		1.0189	1.0202	1.0158-1.0221	True
	PCB 103 (BZ)			28:47	28:44	-3		1.0869	1.0856	1.0850-1.0888	True
	PCB 94 (BZ)			29:03	29:02	-1		1.0974	1.0970	1.0955-1.0993	True
	PCB 95 (BZ)		C95	29:33	29:33	0		1.1158	1.1165	1.1127-1.1190	True
	PCB 100 (BZ)		C95	29:37				1.1186		1.1154-1.1217	C95
	PCB 93 (BZ)			29:42	29:42	0		1.1221	1.1222	1.1190-1.1253	True
	PCB 102 (BZ)		C98	29:50	29:51	1		1.1268	1.1278	1.1236-1.1299	True
	PCB 98 (BZ)		C98	29:54				1.1295		1.1263-1.1326	C98
	PCB 88 (BZ)			30:15	30:13	-2		1.1427	1.1417	1.1389-1.1465	True
	PCB 91 (BZ)			30:22	30:21	-1		1.1471	1.1467	1.1440-1.1503	True
	PCB 84 (BZ)			30:39	30:40	1		1.1576	1.1587	1.1557-1.1595	True
	PCB 89 (BZ)			31:07	31:08	1		1.1756	1.1763	1.1737-1.1775	True
	PCB 121 (BZ)			31:21	31:16	-5		1.1840	1.1814	1.1821-1.1859	Warning
	PCB 92 (BZ)			31:49	31:46	-3		0.8598	0.8589	0.8584-0.8611	True
	PCB 113 (BZ)		C90	32:21	32:20	-1		1.2218	1.2217	1.2186-1.2249	True
	PCB 90 (BZ)		C90	32:22				1.2224		1.2193-1.2256	C90
	PCB 101 (BZ)		C90	32:22				1.2226		1.2195-1.2258	C90
	PCB 83 (BZ)		C83	32:55	32:54	-1		1.2432	1.2431	1.2394-1.2470	True
	PCB 99 (BZ)		C83	32:57				1.2444		1.2413-1.2476	C83
	PCB 112 (BZ)			33:05	33:03	-2		1.2497	1.2487	1.2478-1.2516	True
	PCB 109 (BZ)/108 (IUPAC)		C86	33:25	33:23	-2		1.2621	1.2613	1.2570-1.2671	True
	PCB 86 (BZ)		C86	33:29				1.2648		1.2598-1.2698	C86
	PCB 119 (BZ)		C86	33:27				1.2633		1.2583-1.2684	C86
	PCB 97 (BZ)		C86	33:30				1.2656		1.2606-1.2707	C86
	PCB 125 (BZ)		C86	33:36				1.2688		1.2637-1.2738	C86
	PCB 87 (BZ)		C86	33:39				1.2711		1.2679-1.2742	C86
	PCB 117 (BZ)		C85	34:06	34:04	-2		1.2881	1.2872	1.2843-1.2919	True
	PCB 116 (BZ)		C85	34:10				1.2904		1.2866-1.2942	C85
	PCB 85 (BZ)		C85	34:15				1.2940		1.2908-1.2971	C85
	PCB 110 (BZ)		C110	34:25	34:24	-1		1.3000	1.2997	1.2969-1.3032	True
	PCB 115 (BZ)		C110	34:25				1.2998		1.2967-1.3030	C110
	PCB 82 (BZ)			34:47	34:48	1		1.3141	1.3149	1.3122-1.3160	True
	PCB 111 (BZ)			35:01	34:57	-4		1.3225	1.3205	1.3206-1.3244	Warning
	PCB 120 (BZ)			35:29	35:25	-4		1.3401	1.3382	1.3382-1.3420	True
	PCB 124 (BZ)		C108	36:42				1.3858		1.3827-1.3890	C108
	PCB 108 (BZ)/107 (IUPAC)		C108	36:41	36:39	-2		1.3854	1.3848	1.3823-1.3886	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1

CCAL Filename: a070927s1

CCAL Sample ID: 2990:71

CCAL Result Dir: /20070927s1/a070927s1.d

CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07

Method: IE3 - IE3

Instrument: M1D

Column SN: 35055-03A

Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 187 False: 0 Warning: 23

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 107 (BZ)/109 (IUPAC)			36:55	36:52	-3		1.3942	1.3929	1.3923-1.3961	True
	PCB 123 (BZ)	T		37:01	37:00	-1		1.0004	1.0005	0.9991-1.0018	True
	PCB 106 (BZ)			37:10	37:07	-3		1.0042	1.0036	1.0028-1.0055	True
	PCB 118 (BZ)	T		37:22	37:19	-3		1.0007	1.0004	0.9994-1.0021	True
	PCB 122 (BZ)			37:46	37:44	-2		1.0117	1.0116	1.0104-1.0131	True
	PCB 114 (BZ)	T		37:54	37:52	-2		1.0006	1.0009	0.9993-1.0019	True
	PCB 105 (BZ)	T		38:37	38:36	-1		1.0010	1.0004	0.9997-1.0023	True
	PCB 127 (BZ)			40:00	39:56	-4		1.0367	1.0350	1.0354-1.0380	Warning
	PCB 126 (BZ)	T		41:39	41:40	1		1.0005	1.0008	0.9993-1.0017	True
I	13C12-PCB 155			32:02	31:57	-5	15	0.7919	0.7908	0.7878-0.7960	True
S	13C12-PCB 153			39:08	39:03	-5		0.9018	0.9015	0.8999-0.9037	True
R	13C12-PCB 138			40:27	40:24	-3		1.0000	1.0000	0.9794-1.0206	True
I	13C12-PCB 167			43:24	43:19	-5	15	1.0729	1.0722	1.0687-1.0770	True
I	13C12-PCB 156			44:34	44:36	2	15	1.1018	~~1.1040~~ 1.1019	1.1006-1.1031	~~Warning~~ True
I	13C12-PCB 157			44:39			15	1.1037		1.1025-1.1049	
I	13C12-PCB 169			47:50	47:46	-4	15	1.1822	1.1823	1.1809-1.1834	True
	PCB 155 (BZ)	L		32:03	31:58	-5		1.0006	1.0005	0.9980-1.0032	True
	PCB 152 (BZ)			32:25	32:23	-2		1.0121	1.0136	1.0105-1.0136	True
	PCB 150 (BZ)			32:31	32:28	-3		1.0154	1.0162	1.0138-1.0169	True
	PCB 136 (BZ)			33:00	33:00	0		1.0303	1.0329	1.0287-1.0318	Warning
	PCB 145 (BZ)			33:13	33:12	-1		1.0369	1.0391	1.0353-1.0384	Warning
	PCB 148 (BZ)			34:38	34:33	-5		1.0812	1.0814	1.0797-1.0828	True
	PCB 151 (BZ)		C135	35:17				1.1017		1.0991-1.1043	C135
	PCB 135 (BZ)		C135	35:22	35:21	-1		1.1041	1.1064	1.1015-1.1067	True
	PCB 154 (BZ)		C135	35:27				1.1066		1.1040-1.1092	C135
	PCB 144 (BZ)			35:51	35:47	-4		1.1192	1.1200	1.1177-1.1208	True
	PCB 147 (BZ)		C147	36:12	36:09	-3		1.1298	1.1315	1.1272-1.1324	True
	PCB 149 (BZ)		C147	36:14				1.1310		1.1284-1.1336	C147
	PCB 134 (BZ)		C134	36:27				1.1379		1.1353-1.1405	C134
	PCB 143 (BZ)		C134	36:34	36:30	-4		1.1412	1.1424	1.1386-1.1438	True
	PCB 139 (BZ)		C139	36:46	36:43	-3		1.1477	1.1492	1.1451-1.1503	True
	PCB 140 (BZ)		C139	36:49				1.1490		1.1464-1.1516	C139
	PCB 131 (BZ)			37:02	37:01	-1		1.1563	1.1586	1.1548-1.1579	Warning
	PCB 142 (BZ)			37:12	37:09	-3		1.1610	1.1628	1.1594-1.1626	Warning
	PCB 132 (BZ)			37:34	37:33	-1		1.1725	1.1753	1.1698-1.1751	Warning
	PCB 133 (BZ)			37:56	37:50	-6		1.1841	1.1841	1.1825-1.1856	True
	PCB 165 (BZ)			38:19	38:14	-5		0.8827	0.8826	0.8815-0.8838	True
	PCB 146 (BZ)			38:33	38:30	-3		0.8883	0.8888	0.8871-0.8895	True
	PCB 161 (BZ)			38:42	38:36	-6		0.8915	0.8911	0.8903-0.8927	True
	PCB 153 (BZ)		C153	39:11	39:07	-4		0.9028	0.9030	0.9008-0.9047	True
	PCB 168 (BZ)		C153	39:13				0.9035		0.9016-0.9054	C153
	PCB 141 (BZ)			39:25	39:22	-3		0.9081	0.9088	0.9070-0.9093	True
	PCB 130 (BZ)			39:51	39:48	-3		0.9182	0.9188	0.9171-0.9194	True
	PCB 137 (BZ)			40:02	39:58	-4		0.9225	0.9227	0.9213-0.9236	True
	PCB 164 (BZ)			40:11	40:09	-2		0.9258	0.9269	0.9246-0.9269	True
	PCB 138 (BZ)		C129	40:29	40:26	-3		0.9327	0.9334	0.9300-0.9354	True
	PCB 163 (BZ)		C129	40:29				0.9326		0.9299-0.9353	C129
	PCB 129 (BZ)		C129	40:35				0.9351		0.9325-0.9378	C129

EAD 9/27/07 x2

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1
CCAL Filename: a070927s1
CCAL Sample ID: 2990:71
CCAL Result Dir: /20070927s1/a070927s1.d
CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07
Method: IE3 - IE3
Instrument: M1D
Column SN: 35055-03A
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 187 False: 0 Warning: 23

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 160 (BZ)		C129	40:38				0.9362		0.9342-0.9381	C129
	PCB 158 (BZ)			40:50	40:47	-3		0.9409	0.9415	0.9397-0.9421	True
	PCB 166 (BZ)			41:41	41:38	-3		0.9605	0.9611	0.9586-0.9624	True
	PCB 128 (BZ)			41:48	41:47	-1		0.9632	0.9646	0.9612-0.9651	True
	PCB 159 (BZ)			42:40	42:35	-5		0.9830	0.9831	0.9819-0.9842	True
	PCB 162 (BZ)			42:57	42:53	-4		0.9895	0.9900	0.9884-0.9907	True
	PCB 167 (BZ)	T		43:27	43:21	-6		1.0009	1.0008	0.9998-1.0021	True
	PCB 156 (BZ)	T	C156	44:37				1.0008		0.9997-1.0019	C156
	PCB 157 (BZ)	T	C156	44:41				1.0025		1.0006-1.0043	C156
	PCB 169 (BZ)	T		47:51	47:47	-4		1.0003	1.0003	0.9993-1.0014	True
I	13C12-PCB 188			37:46	37:40	-6	15	0.8226	0.8221	0.8190-0.8262	True
C	13C12-PCB 178			40:51	40:46	-5		0.8896	0.8898	0.8859-0.8932	True
R	13C12-PCB 180			45:55	45:49	-6		1.0000	1.0000	0.9819-1.0181	True
I	13C12-PCB 170			47:15	47:10	-5	15	1.0288	1.0295	1.0252-1.0324	True
I	13C12-PCB 189			50:18	50:12	-6	15	1.0954	1.0957	1.0918-1.0991	True
	PCB 188 (BZ)	L		37:47	37:42	-5		1.0004	1.0009	0.9991-1.0017	True
	PCB 179 (BZ)			38:15	38:12	-3		1.0127	1.0142	1.0114-1.0141	Warning
	PCB 184 (BZ)			38:39	38:32	-7		1.0232	1.0230	1.0219-1.0245	True
	PCB 176 (BZ)			39:07	39:02	-5		1.0355	1.0363	1.0342-1.0368	True
	PCB 186 (BZ)			39:34	39:31	-3		1.0476	1.0491	1.0463-1.0489	Warning
	PCB 178 (BZ)			40:53	40:47	-6		1.0824	1.0827	1.0811-1.0838	True
	PCB 175 (BZ)			41:30	41:24	-6		1.0988	1.0991	1.0974-1.1001	True
	PCB 187 (BZ)			41:46	41:40	-6		1.1058	1.1062	1.1045-1.1071	True
	PCB 182 (BZ)			41:57	41:50	-7		1.1105	1.1106	1.1092-1.1118	True
	PCB 183 (BZ)			42:22	42:16	-6		1.1217	1.1221	1.1204-1.1230	True
	PCB 185 (BZ)			42:31	42:26	-5		1.1255	1.1265	1.1242-1.1268	True
	PCB 174 (BZ)			42:41	42:37	-4		1.1301	1.1314	1.1288-1.1314	True
	PCB 177 (BZ)			43:08	43:03	-5		1.1418	1.1429	1.1405-1.1432	True
	PCB 181 (BZ)			43:28	43:22	-6		1.1507	1.1513	1.1493-1.1520	True
	PCB 171 (BZ)		C171	43:45				1.1580		1.1558-1.1602	C171
	PCB 173 (BZ)		C171	43:44	43:39	-5		1.1576	1.1588	1.1563-1.1589	True
	PCB 172 (BZ)			45:19	45:12	-7		0.9007	0.9004	0.8997-0.9017	True
	PCB 192 (BZ)			45:34	45:28	-6		0.9057	0.9057	0.9047-0.9067	True
	PCB 193 (BZ)		C180	45:53	45:49	-4		0.9123	0.9127	0.9113-0.9133	True
	PCB 180 (BZ)		C180	45:56				0.9131		0.9121-0.9141	C180
	PCB 191 (BZ)			46:19	46:12	-7		0.9206	0.9203	0.9196-0.9216	True
	PCB 170 (BZ)			47:17	47:11	-6		0.9400	0.9399	0.9390-0.9410	True
	PCB 190 (BZ)			47:46	47:41	-5		0.9498	0.9499	0.9488-0.9507	True
	PCB 189 (BZ)	T		50:20	50:13	-7		1.0004	1.0003	0.9994-1.0014	True
I	13C12-PCB 202			43:08	43:02	-6	15	0.8236	0.8236	0.8204-0.8268	True
R	13C12-PCB 194			52:23	52:15	-8		1.0000	1.0000	0.9960-1.0040	True
I	13C12-PCB 205			52:50	52:43	-7	15	1.0088	1.0089	1.0040-1.0136	True
	PCB 202 (BZ)	L		43:09	43:03	-6		1.0004	1.0004	0.9984-1.0023	True
	PCB 200 (BZ)/201 (IUPAC)			44:05	43:57	-8		1.0219	1.0213	1.0199-1.0238	True
	PCB 204 (BZ)			44:43	44:35	-8		1.0367	1.0360	1.0355-1.0378	True
	PCB 197 (BZ)			44:57	44:50	-7		1.0421	1.0418	1.0409-1.0432	True
	PCB 199 (BZ)/200 (IUPAC)			45:09	45:04	-5		1.0468	1.0473	1.0457-1.0480	True
	PCB 198 (BZ)		C198	47:50	47:46	-4		1.1088	1.1100	1.1068-1.1107	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 22990 - A070927S1
CCAL Filename: a070927s1
CCAL Sample ID: 2990:71
CCAL Result Dir: /20070927s1/a070927s1.d
CCAL Date/Time: 09/27/07 12:16

ICAL Date: 03/13/07
Method: IE3 - IE3
Instrument: M1D
Column SN: 35055-03A
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 187 False: 0 Warning: 23

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 201 (BZ)/199 (IUPAC)		C198	47:54				1.1103		1.1092-1.1115	C198
	PCB 196 (BZ)			48:33	48:24	-9		0.9188	0.9181	0.9179-0.9198	True
	PCB 203 (BZ)			48:43	48:36	-7		0.9221	0.9219	0.9211-0.9230	True
	PCB 195 (BZ)			50:04	50:01	-3		0.9485	0.9488	0.9483-0.9501	True
	PCB 194 (BZ)			52:24	52:17	-7		0.9919	0.9918	0.9909-0.9928	True
	PCB 205 (BZ)	L		52:52	52:44	-8		1.0004	1.0003	0.9995-1.0013	True
I	13C12-PCB 208			49:46	49:37	-9	15	0.9501	0.9496	0.9469-0.9533	True
I	13C12-PCB 206			54:33	54:23	-10	15	1.0414	1.0408	1.0366-1.0462	True
	PCB 208 (BZ)	L		49:47	49:38	-9		1.0004	1.0003	0.9994-1.0014	True
	PCB 207 (BZ)			50:43	50:33	-10		1.0190	1.0188	1.0180-1.0200	True
	PCB 206 (BZ)	L		54:34	54:26	-8		1.0003	1.0009	0.9994-1.0013	True
I	13C12-PCB 209			56:08	55:56	-12	15	1.0716	1.0705	1.0668-1.0763	True
	PCB 209 (BZ)	L		56:09	55:57	-12		1.0004	1.0003	0.9995-1.0013	True

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.d	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:16	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
Total Monochlorobiphenyl		5520548	1763452			127.325631		127.325631		0.0794
13C12-PCB 1	12:15	3423146	1298161	1.318	100.0	96.342336	96.34	96.342336		0.0563
13C12-PCB 3	14:29	3379465	1017449	1.325	100.0	94.552539	94.55	94.552539		0.0560
PCB 1 (BZ)	12:17	1927568	654729	1.253	50.00	44.944824	89.89	44.944824		0.0238
PCB 2 (BZ)	14:18	1738796	530297	1.226	50.00	41.685690	83.37	41.685690		0.0273
PCB 3 (BZ)	14:30	1854184	578426	1.348	50.00	40.695118	81.39	40.695118		0.0282
Total Dichlorobiphenyl		17104303	4239128			530.408794		530.408794		1.36
13C12-PCB 4	14:46	1750642	515140	0.615	100.0	105.587182	105.59	105.587182		0.107
13C12-PCB 9	16:42	2696491	724366	1.000	100.0	100.000000	100.00	100.000000		0.0656
13C12-PCB 8	17:36	1440236	360329	1.332	50.00	47.440729	94.88	47.440729	E	0.0636
13C12-PCB 15	20:45	2806550	605567	1.065	100.0	97.748675	97.75	97.748675		0.0616
PCB 4 (BZ)	14:47	932663	295042	1.212	50.00	43.972606	87.95	43.972606		0.155
PCB 10 (BZ)	14:56	1440250	430436	1.326	50.00	47.682521	95.37	47.682521		0.130
PCB 9 (BZ)	16:43	1467331	411525	1.445	50.00	44.556744	89.11	44.556744		0.119
PCB 7 (BZ)	16:52	1521552	398508	1.432	50.00	46.641151	93.28	46.641151		0.120
PCB 6 (BZ)	17:10	1482724	401248	1.450	50.00	44.873553	89.75	44.873553		0.119
PCB 5 (BZ)	17:29	1310324	353681	1.356	50.00	42.412491	84.82	42.412491		0.127
PCB 8 (BZ)	17:37	1517966	397738	1.477	50.00	45.108651	90.22	45.108651		0.117
PCB 14 (BZ)	19:11	1780656	426716	1.687	50.00	46.310846	92.62	46.310846		0.102
PCB 11 (BZ)	20:06	1416696	301083	1.448	50.00	42.946932	85.89	42.946932		0.119
PCB 13 (BZ)		2748399		1.454	100.0	82.959747	82.96	82.959747	C12	0.118
PCB 12 (BZ)	20:26	2748399	495939	1.454	100.0	82.959747	82.96	82.959747	C	0.118
PCB 15 (BZ)	20:46	1485742	327212	1.233	50.00	42.943552	85.89	42.943552		0.129
Total Trichlorobiphenyl		32777252	5816095			1118.85032		1118.85032		3.29
13C12-PCB 19	17:57	1231369	330197	0.558	100.0	105.714489	105.71	105.714489		0.252
13C12-PCB 32	21:11	2086179	497583	1.000	100.0	100.000000	100.00	100.000000		0.141
13C12-PCB 31	23:25	3044696	670058	1.000	100.0	100.000000	100.00	100.000000		0.104
13C12-PCB 28	23:42	1584807	315927	0.968	50.00	53.779971	107.56	53.779971	E	0.108
13C12-PCB 37	27:49	2769828	513151	0.885	100.0	102.764167	102.76	102.764167		0.118
PCB 19 (BZ)	17:58	760232	200992	1.178	50.00	52.423905	104.85	52.423905		0.232
PCB 30 (BZ)	19:38	1133237	296348	1.874	50.00	49.099044	98.20	49.099044		0.146
PCB 18 (BZ)	19:48	795068	189186	1.262	50.00	51.156765	102.31	51.156765		0.217
PCB 17 (BZ)	20:12	814870	198042	1.326	50.00	49.908127	99.82	49.908127		0.206
PCB 27 (BZ)	20:27	1086656	282429	1.945	50.00	45.368710	90.74	45.368710		0.141
PCB 24 (BZ)	20:33	1109975	261441	1.782	50.00	50.584829	101.17	50.584829		0.153
PCB 16 (BZ)	20:45	668402	159995	1.157	50.00	46.901877	93.80	46.901877		0.236
PCB 32 (BZ)	21:12	1245516	289307	1.966	50.00	51.437828	102.88	51.437828		0.139
PCB 34 (BZ)	22:24	1456645	352493	1.216	50.00	43.249553	86.50	43.249553		0.145
PCB 23 (BZ)	22:32	1583945	356118	1.208	50.00	47.346794	94.69	47.346794		0.146
PCB 29 (BZ)	22:53	3152217	597871	1.265	100.0	89.983834	89.98	89.983834	C26	0.139
PCB 26 (BZ)		3152217		1.265	100.0	89.983834	89.98	89.983834	C	0.139
PCB 25 (BZ)	23:07	1734296	357777	1.362	50.00	45.987348	91.97	45.987348		0.129
PCB 31 (BZ)	23:28	1566792	340367	1.285	50.00	44.005602	88.01	44.005602		0.137
PCB 28 (BZ)	23:44	3086710	342034	1.238	100.0	89.993720	89.99	89.993720	C20	0.142
PCB 20 (BZ)		3086710		1.238	100.0	89.993720	89.99	89.993720	C	0.142
PCB 21 (BZ)		3358000		1.276	100.0	95.040795	95.04	95.040795	C	0.138
PCB 33 (BZ)	24:01	3358000	383017	1.276	100.0	95.040795	95.04	95.040795	C21	0.138
PCB 22 (BZ)	24:27	1431110	321150	1.218	50.00	42.414037	84.83	42.414037		0.144
PCB 36 (BZ)	25:54	1651306	319075	1.286	50.00	46.367006	92.73	46.367006		0.137

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.d	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:16	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 39 (BZ)	26:18	1649160	327441	1.330	50.00	44.765103	89.53	44.765103		0.132
PCB 38 (BZ)	26:52	1477042	289611	1.246	50.00	42.797020	85.59	42.797020		0.141
PCB 35 (BZ)	27:25	1512024	272377	1.195	50.00	45.668202	91.34	45.668202		0.147
PCB 37 (BZ)	27:50	1504049	276895	1.224	50.00	44.350219	88.70	44.350219		0.144
Total Tetrachlorobiphenyl		47330280	6953174			1933.50929		1933.50929		5.65
13C12-PCB 54	21:06	1333324	320330	0.598	100.0	106.952853	106.95	106.952853		0.110
13C12-PCB 52	25:33	1750243	383446	1.000	100.0	100.000000	100.00	100.000000		0.0854
13C12-PCB 79	33:27	1158693	213306	1.089	50.00	48.319404	96.64	48.319404	E	0.0764
13C12-PCB 81	34:31	2179299	389693	1.286	100.0	96.791524	96.79	96.791524		0.0664
13C12-PCB 77	35:08	2226406	397776	1.297	100.0	98.062772	98.06	98.062772		0.0658
PCB 54 (BZ)	21:07	827436	201686	1.211	50.00	51.242305	102.48	51.242305		0.195
PCB 50 (BZ)	23:14	1977640	234771	0.927	100.0	96.865210	96.87	96.865210	C	0.208
PCB 53 (BZ)		1977640		0.927	100.0	96.865210	96.87	96.865210	C50	0.208
PCB 45 (BZ)	23:56	1879132	384113	0.857	100.0	99.515036	99.52	99.515036	C	0.224
PCB 51 (BZ)		1879132		0.857	100.0	99.515036	99.52	99.515036	C45	0.224
PCB 46 (BZ)	24:16	775824	164058	0.706	50.00	49.862071	99.72	49.862071		0.272
PCB 52 (BZ)	25:34	880676	210549	0.926	50.00	43.176748	86.35	43.176748		0.208
PCB 73 (BZ)	25:42	2050880	280483	0.957	100.0	97.248285	97.25	97.248285	C43	0.201
PCB 43 (BZ)		2050880		0.957	100.0	97.248285	97.25	97.248285	C	0.201
PCB 69 (BZ)	25:55	1169120	269169	1.180	50.00	44.959368	89.92	44.959368		0.163
PCB 49 (BZ)	26:03	1078926	220136	1.005	50.00	48.718749	97.44	48.718749		0.191
PCB 48 (BZ)	26:19	867462	188626	0.886	50.00	44.447766	88.90	44.447766		0.217
PCB 65 (BZ)	26:32	3046231	422105	1.024	150.0	135.079452	90.05	135.079452	C44	0.188
PCB 47 (BZ)		3046231		1.024	150.0	135.079452	90.05	135.079452	C44	0.188
PCB 44 (BZ)		3046231		1.024	150.0	135.079452	90.05	135.079452	C	0.188
PCB 62 (BZ)	26:49	4003615	457080	1.297	150.0	140.179558	93.45	140.179558	C59	0.148
PCB 75 (BZ)		4003615		1.297	150.0	140.179558	93.45	140.179558	C59	0.148
PCB 59 (BZ)		4003615		1.297	150.0	140.179558	93.45	140.179558	C	0.148
PCB 42 (BZ)	27:08	898391	187427	0.860	50.00	47.445065	94.89	47.445065		0.224
PCB 41 (BZ)	27:33	644314	162898	0.723	50.00	40.434888	80.87	40.434888		0.266
PCB 71 (BZ)	27:39	2021671	291285	0.953	100.0	96.275842	96.28	96.275842	C40	0.202
PCB 40 (BZ)		2021671		0.953	100.0	96.275842	96.28	96.275842	C	0.202
PCB 64 (BZ)	27:50	1392124	290307	1.313	50.00	48.131350	96.26	48.131350		0.147
PCB 72 (BZ)	28:34	1234600	263850	1.257	50.00	44.583176	89.17	44.583176		0.153
PCB 68 (BZ)	28:51	1244384	264184	1.327	50.00	42.564808	85.13	42.564808		0.145
PCB 57 (BZ)	29:18	1205647	248456	1.194	50.00	45.837608	91.68	45.837608		0.161
PCB 58 (BZ)	29:35	1203701	255450	1.260	50.00	43.379231	86.76	43.379231		0.153
PCB 67 (BZ)	29:42	1378299	256740	1.286	50.00	48.639167	97.28	48.639167		0.150
PCB 63 (BZ)	29:58	1273965	257709	1.339	50.00	43.201123	86.40	43.201123		0.144
PCB 61 (BZ)	30:12	1077510	235765	1.190	50.00	41.099628	82.20	41.099628		0.162
PCB 70 (BZ)	30:21	3907698	757293	1.317	150.0	134.686545	89.79	134.686545	C	0.146
PCB 76 (BZ)		3907698		1.317	150.0	134.686545	89.79	134.686545	C70	0.146
PCB 74 (BZ)		3907698		1.317	150.0	134.686545	89.79	134.686545	C70	0.146
PCB 66 (BZ)	30:40	1169355	245205	1.289	50.00	41.174138	82.35	41.174138		0.149
PCB 55 (BZ)	30:53	1083744	217803	1.161	50.00	42.392360	84.78	42.392360		0.166
PCB 56 (BZ)	31:26	1164521	230038	1.231	50.00	42.948952	85.90	42.948952		0.156
PCB 60 (BZ)	31:37	1224582	233111	1.191	50.00	46.677147	93.35	46.677147		0.162
PCB 80 (BZ)	31:51	1506851	280592	1.416	50.00	48.306222	96.61	48.306222		0.136
PCB 79 (BZ)	33:29	1371968	256745	1.371	50.00	45.436704	90.87	45.436704		0.140

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.d	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:16	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 78 (BZ)	34:04	1245607	212547	1.181	50.00	47.868259	95.74	47.868259		0.163
PCB 81 (BZ)	34:33	1294795	236196	1.317	50.00	45.096815	90.19	45.096815		0.148
PCB 77 (BZ)	35:09	1229611	222521	1.200	50.00	46.035716	92.07	46.035716		0.159
Total Pentachlorobiphenyl		44189808	5417584			2167.99933		2167.99933		5.41
13C12-PCB 104	26:28	1998536	430696	1.260	100.0	104.118577	104.12	104.118577		0.0992
13C12-PCB 95	29:30	716132	142849	0.741	50.00	48.376557	96.75	48.376557	E	0.120
13C12-PCB 101	32:19	1523696	306168	1.000	100.0	100.000000	100.00	100.000000		0.125
13C12-PCB 111	34:55	976954	192092	1.229	50.00	52.170004	104.34	52.170004	E	0.102
13C12-PCB 123	36:59	2335982	442363	0.955	100.0	99.245292	99.25	99.245292		0.0846
13C12-PCB 118	37:18	2525899	481032	0.988	100.0	103.675283	103.68	103.675283		0.0818
13C12-PCB 114	37:50	2345469	440727	0.971	100.0	97.981317	97.98	97.981317		0.0832
13C12-PCB 105	38:35	2326191	442477	0.941	100.0	100.229948	100.23	100.229948		0.0858
13C12-PCB 127	39:55	2465907	473475	1.000	100.0	100.000000	100.00	100.000000		0.0808
13C12-PCB 126	41:38	2461428	438758	0.978	100.0	102.081901	102.08	102.081901		0.0826
PCB 104 (BZ)	26:29	1105179	247209	1.149	50.00	48.107985	96.22	48.107985		0.138
PCB 96 (BZ)	27:00	967120	203548	1.014	50.00	47.745647	95.49	47.745647		0.157
PCB 103 (BZ)	28:44	800754	164886	0.866	50.00	46.246857	92.49	46.246857		0.184
PCB 94 (BZ)	29:02	720508	156725	0.703	50.00	51.297471	102.59	51.297471		0.226
PCB 95 (BZ)	29:33	1609862	293912	0.859	100.0	93.804514	93.80	93.804514	C	0.185
PCB 100 (BZ)		1609862		0.859	100.0	93.804514	93.80	93.804514	C95	0.185
PCB 93 (BZ)	29:42	649530	141682	0.701	50.00	46.334403	92.67	46.334403		0.227
PCB 102 (BZ)	29:51	1642757	208995	0.822	100.0	99.967168	99.97	99.967168	C98	0.193
PCB 98 (BZ)		1642757		0.822	100.0	99.967168	99.97	99.967168	C	0.193
PCB 88 (BZ)	30:13	640354	137891	0.723	50.00	44.321680	88.64	44.321680		0.220
PCB 91 (BZ)	30:21	833049	169976	0.864	50.00	48.256650	96.51	48.256650		0.184
PCB 84 (BZ)	30:40	577228	119416	0.679	50.00	42.514141	85.03	42.514141		0.234
PCB 89 (BZ)	31:08	664424	137476	0.717	50.00	46.350187	92.70	46.350187		0.222
PCB 121 (BZ)	31:16	1089214	216060	1.105	50.00	49.319776	98.64	49.319776		0.144
PCB 92 (BZ)	31:46	728895	149554	0.772	50.00	47.221409	94.44	47.221409		0.206
PCB 113 (BZ)	32:20	2816302	521351	0.990	150.0	142.394456	94.93	142.394456	C90	0.161
PCB 90 (BZ)		2816302		0.990	150.0	142.394456	94.93	142.394456	C	0.161
PCB 101 (BZ)		2816302		0.990	150.0	142.394456	94.93	142.394456	C90	0.161
PCB 83 (BZ)	32:54	1449894	292223	0.777	100.0	93.410884	93.41	93.410884	C	0.205
PCB 99 (BZ)		1449894		0.777	100.0	93.410884	93.41	93.410884	C83	0.205
PCB 112 (BZ)	33:03	1063228	202549	1.079	50.00	49.307175	98.61	49.307175		0.147
PCB 109 (BZ)/108 (IUPAC)	33:23	5573573	433411	0.967	300.0	288.464202	96.15	288.464202	C86	0.165
PCB 86 (BZ)		5573573		0.967	300.0	288.464202	96.15	288.464202	C	0.165
PCB 119 (BZ)		5573573		0.967	300.0	288.464202	96.15	288.464202	C86	0.165
PCB 97 (BZ)		5573573		0.967	300.0	288.464202	96.15	288.464202	C86	0.165
PCB 125 (BZ)		5573573		0.967	300.0	288.464202	96.15	288.464202	C86	0.165
PCB 87 (BZ)		5573573		0.967	300.0	288.464202	96.15	288.464202	C86	0.165
PCB 117 (BZ)	34:04	2712996	226913	0.979	150.0	138.642149	92.43	138.642149	C85	0.162
PCB 116 (BZ)		2712996		0.979	150.0	138.642149	92.43	138.642149	C85	0.162
PCB 85 (BZ)		2712996		0.979	150.0	138.642149	92.43	138.642149	C	0.162
PCB 110 (BZ)	34:24	2227242	394877	1.139	100.0	97.866286	97.87	97.866286	C	0.140
PCB 115 (BZ)		2227242		1.139	100.0	97.866286	97.87	97.866286	C110	0.140
PCB 82 (BZ)	34:48	549852	113466	0.605	50.00	45.503176	91.01	45.503176		0.263
PCB 111 (BZ)	34:57	1096260	212296	1.129	50.00	48.596508	97.19	48.596508		0.141
PCB 120 (BZ)	35:25	1078841	211980	1.192	50.00	45.280607	90.56	45.280607		0.133

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.d	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:16	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 124 (BZ)		2481300		1.123	100.0	92.062487	92.06	92.062487	C108	0.136
PCB 108 (BZ)/107 (IUPAC)	36:39	2481300	476457	1.123	100.0	92.062487	92.06	92.062487	C	0.136
PCB 107 (BZ)/109 (IUPAC)	36:52	1208589	231153	1.074	50.00	46.902789	93.81	46.902789		0.142
PCB 123 (BZ)	37:00	1254844	250866	1.136	50.00	47.286300	94.57	47.286300		0.136
PCB 106 (BZ)	37:07	1164119	230593	1.046	50.00	46.388775	92.78	46.388775		0.146
PCB 118 (BZ)	37:19	1279637	253058	1.094	50.00	46.320121	92.64	46.320121		0.130
PCB 122 (BZ)	37:44	1128481	224014	1.047	50.00	44.908765	89.82	44.908765		0.146
PCB 114 (BZ)	37:52	1327830	252033	1.196	50.00	47.330657	94.66	47.330657		0.130
PCB 105 (BZ)	38:36	1250691	229939	1.218	50.00	44.137956	88.28	44.137956		0.127
PCB 127 (BZ)	39:56	1279624	245515	1.130	50.00	47.182845	94.37	47.182845		0.135
PCB 126 (BZ)	41:40	1217631	226910	1.111	50.00	44.525309	89.05	44.525309		0.141
Total Hexachlorobiphenyl		40710229	6191767			1996.84084		1996.84084		8.11
13C12-PCB 155	31:57	2058257	426921	1.178	100.0	114.680188	114.68	114.680188		0.0922
13C12-PCB 153	39:03	897734	176870	0.833	50.00	47.927600	95.86	47.927600	E	0.122
13C12-PCB 138	40:24	1774004	348721	1.000	100.0	100.000000	100.00	100.000000		0.0953
13C12-PCB 167	43:19	2303747	445260	1.237	100.0	105.011534	105.01	105.011534		0.0771
13C12-PCB 156	44:36	4565242	470013	1.229	200.0	209.423097	104.71	209.423097		0.0776
13C12-PCB 157								ND		0.000000
13C12-PCB 169	47:46	2120912	395750	1.188	100.0	100.671473	100.67	100.671473		0.0803
PCB 155 (BZ)	31:58	1084919	221768	1.117	50.00	47.186705	94.37	47.186705		0.167
PCB 152 (BZ)	32:23	963339	206022	1.023	50.00	45.738125	91.48	45.738125		0.183
PCB 150 (BZ)	32:28	1007267	205246	1.032	50.00	47.406531	94.81	47.406531		0.181
PCB 136 (BZ)	33:00	916823	190927	0.967	50.00	46.084967	92.17	46.084967		0.193
PCB 145 (BZ)	33:12	988453	195901	1.021	50.00	47.058103	94.12	47.058103		0.183
PCB 148 (BZ)	34:33	733081	148465	0.749	50.00	47.553035	95.11	47.553035		0.249
PCB 151 (BZ)		2267069		0.781	150.0	141.120294	94.08	141.120294	C135	0.239
PCB 135 (BZ)	35:21	2267069	265381	0.781	150.0	141.120294	94.08	141.120294	C	0.239
PCB 154 (BZ)		2267069		0.781	150.0	141.120294	94.08	141.120294	C135	0.239
PCB 144 (BZ)	35:47	745381	148389	0.759	50.00	47.734698	95.47	47.734698		0.246
PCB 147 (BZ)	36:09	1825478	300281	0.862	100.0	94.252247	94.25	94.252247	C	0.282
PCB 149 (BZ)		1825478		0.862	100.0	94.252247	94.25	94.252247	C147	0.282
PCB 134 (BZ)		1542620		0.711	100.0	96.477435	96.48	96.477435	C	0.342
PCB 143 (BZ)	36:30	1542620	181824	0.711	100.0	96.477435	96.48	96.477435	C134	0.342
PCB 139 (BZ)	36:43	1856000	273631	0.856	100.0	96.508101	96.51	96.508101	C	0.284
PCB 140 (BZ)		1856000		0.856	100.0	96.508101	96.51	96.508101	C139	0.284
PCB 131 (BZ)	37:01	761234	145433	0.713	50.00	47.471477	94.94	47.471477		0.341
PCB 142 (BZ)	37:09	755366	151811	0.735	50.00	45.729222	91.46	45.729222		0.331
PCB 132 (BZ)	37:33	754709	153786	0.710	50.00	47.283230	94.57	47.283230		0.343
PCB 133 (BZ)	37:50	816145	161907	0.768	50.00	47.260831	94.52	47.260831		0.317
PCB 165 (BZ)	38:14	1079221	218225	0.993	50.00	48.366696	96.73	48.366696		0.245
PCB 146 (BZ)	38:30	932640	187844	0.874	50.00	47.496402	94.99	47.496402		0.278
PCB 161 (BZ)	38:36	1217082	235769	1.090	50.00	49.697831	99.40	49.697831		0.223
PCB 153 (BZ)	39:07	2360963	391117	1.068	100.0	98.317851	98.32	98.317851	C	0.228
PCB 168 (BZ)		2360963		1.068	100.0	98.317851	98.32	98.317851	C153	0.228
PCB 141 (BZ)	39:22	863125	161689	0.756	50.00	50.814377	101.63	50.814377		0.322
PCB 130 (BZ)	39:48	754885	156106	0.708	50.00	47.411048	94.82	47.411048		0.343
PCB 137 (BZ)	39:58	935703	188995	0.835	50.00	49.855406	99.71	49.855406		0.291
PCB 164 (BZ)	40:09	1132251	222440	1.033	50.00	48.760817	97.52	48.760817		0.236
PCB 138 (BZ)	40:26	4001053	408132	0.922	200.0	193.079407	96.54	193.079407	C129	0.264

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

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Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.d	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:16	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 163 (BZ)		4001053		0.922	200.0	193.079407	96.54	193.079407	C129	0.264
PCB 129 (BZ)		4001053		0.922	200.0	193.079407	96.54	193.079407	C	0.264
PCB 160 (BZ)		4001053		0.922	200.0	193.079407	96.54	193.079407	C129	0.264
PCB 158 (BZ)	40:47	1293331	249036	1.191	50.00	48.309956	96.62	48.309956		0.204
PCB 166 (BZ)	41:38	1164191	226888	1.102	50.00	46.997569	94.00	46.997569		0.221
PCB 128 (BZ)	41:47	827302	155487	0.769	50.00	47.877386	95.75	47.877386		0.316
PCB 159 (BZ)	42:35	1143441	222458	1.079	50.00	47.142203	94.28	47.142203		0.225
PCB 162 (BZ)	42:53	1180541	238287	1.079	50.00	48.687227	97.37	48.687227		0.226
PCB 167 (BZ)	43:21	1209084	245897	1.150	50.00	45.628462	91.26	45.628462		0.156
PCB 156 (BZ)		2372649		1.151	100.0	90.337146	90.34	90.337146	C	0.295
PCB 157 (BZ)	44:38	2372649	234634	1.151		90.337146		90.337146	C156	0.295
PCB 169 (BZ)	47:47	1224883	214730	1.337	50.00	43.196049	86.39	43.196049		0.151
Total Heptachlorobiphenyl		21858501	3617913			1136.79461		1136.79461		3.47
13C12-PCB 188	37:40	2208640	448282	1.238	100.0	102.029996	102.03	102.029996		0.0701
13C12-PCB 178	40:46	715785	141268	0.863	50.00	47.434797	94.87	47.434797	E	0.101
13C12-PCB 180	45:49	1748350	345469	1.000	100.0	100.000000	100.00	100.000000		0.0868
13C12-PCB 170	47:10	1448818	282890	0.813	100.0	101.868793	101.87	101.868793		0.107
13C12-PCB 189	50:12	2328047	435148	1.620	100.0	97.871056	97.87	97.871056		0.0656
PCB 188 (BZ)	37:42	1118127	225383	1.071	50.00	47.285338	94.57	47.285338		0.123
PCB 179 (BZ)	38:12	1064949	213259	1.200	50.00	48.535116	97.07	48.535116		0.135
PCB 184 (BZ)	38:32	1014157	201826	1.178	50.00	47.065460	94.13	47.065460		0.138
PCB 176 (BZ)	39:02	1120354	217858	1.252	50.00	48.934842	97.87	48.934842		0.129
PCB 186 (BZ)	39:31	1045577	206764	1.214	50.00	47.083743	94.17	47.083743		0.133
PCB 178 (BZ)	40:47	763370	150686	0.889	50.00	46.937367	93.87	46.937367		0.182
PCB 175 (BZ)	41:24	819520	161809	0.920	50.00	48.704899	97.41	48.704899		0.176
PCB 187 (BZ)	41:40	852998	172681	1.009	50.00	46.236341	92.47	46.236341		0.161
PCB 182 (BZ)	41:50	875419	175268	0.972	50.00	49.254188	98.51	49.254188		0.167
PCB 183 (BZ)	42:16	844441	168592	0.946	50.00	48.803837	97.61	48.803837		0.171
PCB 185 (BZ)	42:26	785830	157738	0.919	50.00	46.763554	93.53	46.763554		0.176
PCB 174 (BZ)	42:37	792706	154890	0.924	50.00	46.910466	93.82	46.910466		0.175
PCB 177 (BZ)	43:03	738511	141867	0.880	50.00	45.916589	91.83	45.916589		0.184
PCB 181 (BZ)	43:22	817132	161676	0.975	50.00	45.840931	91.68	45.840931		0.166
PCB 171 (BZ)		1441146		0.835	100.0	94.374398	94.37	94.374398	C	0.194
PCB 173 (BZ)	43:39	1441146	265906	0.835	100.0	94.374398	94.37	94.374398	C171	0.194
PCB 172 (BZ)	45:12	692689	142067	0.838	50.00	45.189707	90.38	45.189707		0.193
PCB 192 (BZ)	45:28	979266	194444	1.147	50.00	46.674433	93.35	46.674433		0.141
PCB 193 (BZ)	45:49	1990398	312646	1.134	100.0	95.978109	95.98	95.978109	C180	0.143
PCB 180 (BZ)		1990398		1.134	100.0	95.978109	95.98	95.978109	C	0.143
PCB 191 (BZ)	46:12	1058208	203293	1.228	50.00	47.131358	94.26	47.131358		0.132
PCB 170 (BZ)	47:11	729656	133471	1.058	50.00	47.619123	95.24	47.619123		0.198
PCB 190 (BZ)	47:41	1109477	207907	1.254	50.00	48.397982	96.80	48.397982		0.129
PCB 189 (BZ)	50:13	1204570	226434	1.097	50.00	47.156833	94.31	47.156833		0.124
Total Octachlorobiphenyl		10009685	1861892			557.082675		557.082675		1.25
13C12-PCB 202	43:02	1941165	398417	0.994	100.0	111.722815	111.72	111.722815		0.0655
13C12-PCB 194	52:15	1467912	282304	1.000	100.0	100.000000	100.00	100.000000		0.0797
13C12-PCB 205	52:43	2148591	409156	1.407	100.0	104.048696	104.05	104.048696		0.0567
PCB 202 (BZ)	43:03	887162	175586	0.993	50.00	46.037995	92.08	46.037995		0.103
PCB 200 (BZ)/201 (IUPAC)	43:57	983103	200410	1.087	50.00	46.592427	93.18	46.592427		0.0941
PCB 204 (BZ)	44:35	921470	182065	1.033	50.00	45.940525	91.88	45.940525		0.0990

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.d	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:16	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 197 (BZ)	44:50	971901	191024	1.061	50.00	47.173453	94.35	47.173453		0.0964
PCB 199 (BZ)/200 (IUPAC)	45:04	926260	185189	1.031	50.00	46.286969	92.57	46.286969		0.0992
PCB 198 (BZ)	47:46	1350257	153494	0.761	100.0	91.428052	91.43	91.428052	C	0.134
PCB 201 (BZ)/199 (IUPAC)		1350257		0.761	100.0	91.428052	91.43	91.428052	C198	0.134
PCB 196 (BZ)	48:24	677124	136577	0.752	50.00	46.379442	92.76	46.379442		0.136
PCB 203 (BZ)	48:36	761590	145522	0.856	50.00	45.834237	91.67	45.834237		0.119
PCB 195 (BZ)	50:01	745263	141529	0.723	50.00	48.006313	96.01	48.006313		0.138
PCB 194 (BZ)	52:17	796995	159830	0.795	50.00	46.665730	93.33	46.665730		0.125
PCB 205 (BZ)	52:44	988560	190666	0.984	50.00	46.737532	93.48	46.737532		0.101
Total Nonachlorobiphenyl		2642878	513828			139.086742		139.086742		0.217
13C12-PCB 208	49:37	2049400	405229	1.161	100.0	120.244957	120.24	120.244957		0.0808
13C12-PCB 206	54:23	1336026	267046	0.823	100.0	110.634909	110.63	110.634909		0.114
PCB 208 (BZ)	49:38	972257	193427	1.026	50.00	46.225691	92.45	46.225691		0.0637
PCB 207 (BZ)	50:33	981939	190440	1.264	50.00	45.892663	91.79	45.892663		0.0624
PCB 206 (BZ)	54:26	688682	129961	1.097	50.00	46.968388	93.94	46.968388		0.0904
13C12-PCB 209	55:56	1658186	305583	0.930	100.0	121.451818	121.45	121.451818		0.101
PCB 209 (BZ)	55:57	762430	136524	1.006	50.00	45.718613	91.44	45.718613		0.0586

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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	09/27/07 12:16	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	235	153	94	61	1.54 *	/	
	PCB 1 (BZ)	12:17	12:17	0	1479304	448264	503234	151495	3.30	AVV/AVV	
	PCB 2 (BZ)	14:18	14:20	-2	1320886	417910	403629	126668	3.16	ABV/ABV	
	PCB 3 (BZ)	14:30	14:30	0	1414860	439324	439156	139270	3.22	AVB/AVB	
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	275	263	110	105	1.05 *	/	
	13C12-PCB 1	12:15	12:16	-1	2619685	803461	995822	302339	3.26	AVV/AVV	
	13C12-PCB 3	14:29	14:29	0	2582003	797462	775973	241476	3.24	ABV/ABV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	435	530	174	212	0.82 *	/	
	PCB 4 (BZ)	14:47	14:47	0	585837	346826	184368	110674	1.69	ABV/ABV	
	PCB 10 (BZ)	14:56	14:58	-2	885566	554684	270965	159471	1.60	AVV/AVV	
	PCB 9 (BZ)	16:43	16:44	-1	899422	567909	254832	156693	1.58	ABV/ABV	
	PCB 7 (BZ)	16:52	16:53	-1	938591	582961	244790	153718	1.61	AVV/AVV	
	PCB 6 (BZ)	17:10	17:10	0	906329	576395	246974	154274	1.57	AVB/AVB	
	PCB 5 (BZ)	17:29	17:29	0	832922	477402	218857	134824	1.74	ABV/ABV	
	PCB 8 (BZ)	17:37	17:37	0	917976	599990	243271	154467	1.53	AVB/AVB	
	PCB 14 (BZ)	19:11	19:12	-1	1085727	694929	262532	164184	1.56	ABV/ABV	
	PCB 11 (BZ)	20:06	20:06	0	869839	546857	182816	118267	1.59	ABV/ABV	
	PCB 12 (BZ)	20:26	20:25	1	1692944	1055455	300198	195741	1.60	AVV/AVV	M
	PCB 15 (BZ)	20:46	20:43	3	915898	569844	201158	126054	1.61	AVB/AVB	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	273	203	109	81	1.35	/	
	13C12-PCB 4	14:46	14:46	0	1076107	674535	311425	203715	1.60	ABV/ABV	
	13C12-PCB 9	16:42	16:42	0	1667932	1028559	441647	282719	1.62	ABV/ABV	
	13C12-PCB 8	17:36	17:35	1	890522	549714	222802	137527	1.62	AVV/AVV	
	13C12-PCB 15	20:45	20:43	2	1724966	1081584	373260	232307	1.59	ABV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	470	433	188	173	1.09	/	
	PCB 19 (BZ)	17:58	17:58	0	399505	360727	105026	95966	1.11	ABV/ABV	
	PCB 30 (BZ)	19:38	19:40	-2	576851	556386	152982	143366	1.04	ABV/ABV	D
	PCB 18 (BZ)	19:48	19:47	1	418965	376103	101422	87764	1.11	AVB/AVB	
	PCB 17 (BZ)	20:12	20:12	0	420273	394597	101230	96812	1.07	ABB/ABB	
	PCB 27 (BZ)	20:27	20:27	0	570001	516655	146774	135655	1.10	ABV/ABV	
	PCB 24 (BZ)	20:33	20:33	0	581453	528522	133575	127866	1.10	AVV/AVV	
	PCB 16 (BZ)	20:45	20:43	2	352405	315997	83763	76232	1.12	AVB/AVB	
	PCB 32 (BZ)	21:12	21:13	-1	648580	596936	153527	135780	1.09	ABV/ABV	D
	PCB 34 (BZ)	22:24	22:26	-2	763962	692683	181079	171414	1.10	ABV/ABV	D
	PCB 23 (BZ)	22:32	22:33	-1	785169	798776	180059	176059	0.98	AVB/AVB	D
	PCB 29 (BZ)	22:53	22:53	0	1612882	1539335	307627	290244	1.05	ABV/ABV	
	PCB 25 (BZ)	23:07	23:07	0	887434	846862	185615	172162	1.05	AVV/AVV	
	PCB 31 (BZ)	23:28	23:27	1	809376	757416	175912	164455	1.07	AVB/AVV	
	PCB 28 (BZ)	23:44	23:43	1	1564130	1522580	175419	166615	1.03	ABV/AVV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	09/27/07 12:16	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	PCB 33 (BZ)	24:01	24:01	0	1726040	1631960	199259	183758	1.06	AVV/AVV	
	PCB 22 (BZ)	24:27	24:25	2	724961	706149	163830	157320	1.03	AVB/ABB	
	PCB 36 (BZ)	25:54	25:56	-2	844967	806339	159349	159726	1.05	AVV/AVV	
	PCB 39 (BZ)	26:18	26:17	1	849642	799518	167525	159916	1.06	AVV/AVV	
	PCB 38 (BZ)	26:52	26:52	0	752894	724148	147745	142866	1.04	AVV/AVV	
	PCB 35 (BZ)	27:25	27:23	2	769807	742217	138395	133082	1.04	ABV/AVV	
	PCB 37 (BZ)	27:50	27:48	2	757440	746609	141421	135474	1.01	AVV/AVV	
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	380	320	152	128	1.19	/	
	13C12-PCB 19	17:57	17:56	1	648197	583172	174089	156108	1.11	AVV/ABV	
	13C12-PCB 32	21:11	21:11	0	1102087	984092	263045	234540	1.12	ABV/AVV	
	13C12-PCB 31	23:25	23:25	0	1552168	1492528	337765	332293	1.04	ABV/ABV	
	13C12-PCB 28	23:42	23:42	0	816739	768068	160721	155206	1.06	AVV/AVV	
	13C12-PCB 37	27:49	27:46	3	1433979	1335849	262771	250380	1.07	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	358	400	143	160	0.89 *	/	
	PCB 54 (BZ)	21:07	21:05	2	370214	457222	91041	110645	0.81	ABB/ABB	
	PCB 50 (BZ)	23:14	23:11	3	857515	1120125	100287	134484	0.77	ABV/ABV	
	PCB 45 (BZ)	23:56	23:54	2	829487	1049645	167035	217078	0.79	AVV/AVV	
	PCB 46 (BZ)	24:16	24:15	1	343704	432120.	72571	91487	0.80	AVV/AVV	
	PCB 52 (BZ)	25:34	25:35	-1	384780	495896	92159	118390	0.78	ABV/ABV	D
	PCB 73 (BZ)	25:42	25:42	0	895295	1155585	124365	156118	0.77	AVV/AVV	D
	PCB 69 (BZ)	25:55	25:57	-2	501011	668109	115566	153603	0.75	AVV/AVV	D
	PCB 49 (BZ)	26:03	26:04	-1	472525	606401	94459	125677	0.78	AVB/AVB	D
	PCB 48 (BZ)	26:19	26:20	-1	385819	481643	84610	104016	0.80	ABV/ABV	D
	PCB 65 (BZ)	26:32	26:33	-1	1347429	1698802	184096	238009	0.79	AVV/AVV	D
	PCB 62 (BZ)	26:49	26:48	1	1755915	2247700	200376	256704	0.78	AVV/AVV	
	PCB 42 (BZ)	27:08	27:07	1	392676	505715	80578	106849	0.78	AVB/AVB	D
	PCB 41 (BZ)	27:33	27:32	1	283520	360794	71557	91341	0.79	ABV/ABV	
	PCB 71 (BZ)	27:39	27:37	2	885642	1136029	128005	163280	0.78	AVV/AVV	
	PCB 64 (BZ)	27:50	27:49	1	602771	789353	128272	162035	0.76	AVB/AVB	D
	PCB 72 (BZ)	28:34	28:37	-3	541776	692824	115047	148803	0.78	ABV/ABV	D
	PCB 68 (BZ)	28:51	28:52	-1	544543	699841	113425	150759	0.78	AVB/AVB	
	PCB 57 (BZ)	29:18	29:19	-1	524923	680724	111088	137368	0.77	ABV/ABV	
	PCB 58 (BZ)	29:35	29:35	0	522990	680711	112529	142921	0.77	AVV/AVV	
	PCB 67 (BZ)	29:42	29:42	0	605989	772310	113494	143246	0.78	AVV/AVV	
	PCB 63 (BZ)	29:58	29:59	-1	545565	728400	110023	147686	0.75	AVB/AVB	
	PCB 61 (BZ)	30:12	30:12	0	462581	614929	101800	133965	0.75	ABV/ABV	
	PCB 70 (BZ)	30:21	30:20	1	1698070	2209628	331844	425449	0.77	AVB/AVB	
	PCB 66 (BZ)	30:40	30:40	0	508773	660582	105781	139424	0.77	ABV/ABV	
	PCB 55 (BZ)	30:53	30:52	1	471490	612254	94786	123017	0.77	AVB/AVB	
	PCB 56 (BZ)	31:26	31:23	3	512305	652216	98717	131321	0.79	ABV/ABV	
	PCB 60 (BZ)	31:37	31:35	2	532962	691620	103922	129189	0.77	AVV/AVV	
	PCB 80 (BZ)	31:51	31:51	0	664988	841863	120429	160163	0.79	AVB/AVB	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	09/27/07 12:16	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial wt/vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	PCB 79 (BZ)	33:29	33:28	1	589540	782428	114001	142744	0.75	ABV/AVV	
	PCB 78 (BZ)	34:04	34:03	1	542874	702733	94579	117968	0.77	AVV/ABV	
	PCB 81 (BZ)	34:33	34:30	3	565582	729213	102466	133730	0.78	AVV/AVV	
	PCB 77 (BZ)	35:09	35:05	4	537987	691624	93471	129050	0.78	ABV/ABV	M
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	170	158	68	63	1.08 *	/	
	13C12-PCB 54	21:06	21:04	2	616508	716816	145411	174919	0.86	ABV/ABV	
	13C12-PCB 52	25:33	25:34	-1	770984	979259	165582	217864	0.79	ABV/ABV	
	13C12-PCB 79	33:27	33:26	1	510376	648317	95890	117416	0.79	ABV/ABV	
	13C12-PCB 81	34:31	34:28	3	967775	1222524	174966	214727	0.80	ABV/ABV	
	13C12-PCB 77	35:08	35:04	4	984975	1241431	177442	220334	0.79	ABV/ABV	M
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	360	325	144	130	1.11 *	/	
	PCB 104 (BZ)	26:29	26:31	-2	679896	425283	151208	96001	1.60	ABV/ABV	
	PCB 96 (BZ)	27:00	26:59	1	600420	366700	127186	76362	1.64	AVV/AVV	
	PCB 103 (BZ)	28:44	28:47	-3	499676	301078	102922	61964	1.66	ABV/ABV	
	PCB 94 (BZ)	29:02	29:03	-1	443859	276649	96213	60512	1.60	AVV/AVV	
	PCB 95 (BZ)	29:33	29:33	0	994121	615741	183533	110379	1.61	ABV/ABV	
	PCB 93 (BZ)	29:42	29:42	0	399369	250161	86567	55115	1.60	AVV/AVV	
	PCB 102 (BZ)	29:51	29:50	1	1013133	629624	130934	78061	1.61	AVB/AVB	
	PCB 88 (BZ)	30:13	30:14	-1	389210	251144	84577	53314	1.55	ABV/ABV	
	PCB 91 (BZ)	30:21	30:21	0	506130	326919	102532	67444	1.55	AVB/AVB	
	PCB 84 (BZ)	30:40	30:38	2	358081	219147	74533	44883	1.63	ABB/ABB	
	PCB 89 (BZ)	31:08	31:06	2	407083	257341	86283	51193	1.58	ABV/ABV	
	PCB 121 (BZ)	31:16	31:20	-4	672792	416422	132673	83387	1.62	AVV/AVV	M
	PCB 92 (BZ)	31:46	31:48	-2	456349	272546	96638	52916	1.67	ABB/ABB	
	PCB 113 (BZ)	32:20	32:20	0	1734627	1081675	321582	199769	1.60	ABV/ABV	
	PCB 83 (BZ)	32:54	32:54	0	883140	566754	181089	111134	1.56	ABV/ABV	
	PCB 112 (BZ)	33:03	33:04	-1	656728	406500	125332	77217	1.62	AVB/AVB	
	PCB 109 (BZ)/108 (IUPAC	33:23	33:23	0	3413925	2159648	263122	170289	1.58	ABB/ABB	
	PCB 117 (BZ)	34:04	34:04	0	1668248	1044748	136821	90092	1.60	ABV/ABV	
	PCB 110 (BZ)	34:24	34:23	1	1370908	856334	241044	153833	1.60	AVB/AVB	
	PCB 82 (BZ)	34:48	34:45	3	341570	208282	70116	43350	1.64	ABV/ABV	
	PCB 111 (BZ)	34:57	34:59	-2	675607	420653	131229	81067	1.61	AVV/AVB	D
	PCB 120 (BZ)	35:25	35:27	-2	662717	416124	132051	79929	1.59	AVB/AVB	D
	PCB 108 (BZ)/107 (IUPAC	36:39	36:38	1	1525140	956160	289923	186534	1.60	AVV/AVV	
	PCB 107 (BZ)/109 (IUPAC	36:52	36:52	0	736648	471941	141510	89643	1.56	AVV/AVV	
	PCB 123 (BZ)	37:00	36:58	2	776060	478784	154931	95935	1.62	AVV/AVV	
	PCB 106 (BZ)	37:07	37:07	0	720510	443609	144732	85861	1.62	AVV/AVV	
	PCB 118 (BZ)	37:19	37:19	0	784696	494941	153798	99260	1.59	AVB/AVB	
	PCB 122 (BZ)	37:44	37:43	1	686466	442015	136743	87271	1.55	ABV/ABV	
	PCB 114 (BZ)	37:52	37:51	1	816284	511546	155831	96202	1.60	AVV/AVV	
	PCB 105 (BZ)	38:36	38:34	2	766281	484410	142638	87301	1.58	ABB/ABB	
	PCB 127 (BZ)	39:56	39:56	0	786508	493116	148857	96658	1.59	AVV/AVV	D

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported $ = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

2077

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	09/27/07 12:16	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	PCB 126 (BZ)	41:40	41:35	5	755387	462244	137998	88912	1.63	ABV/ABV	M
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	205	178	82	71	1.15 *	/	
	13C12-PCB 104	26:28	26:29	-1	1246423	752113	270431	160265	1.66	ABV/ABV	
	13C12-PCB 95	29:30	29:30	0	448255	267877	88793	54056	1.67	ABV/ABV	
	13C12-PCB 101	32:19	32:20	-1	960124	563572	186928	119240	1.70	ABV/ABV	
	13C12-PCB 111	34:55	34:57	-2	605285	371669	120141	71951	1.63	ABV/ABV	
	13C12-PCB 123	36:59	36:58	1	1435736	900246	271189	171174	1.59	ABV/ABV	
	13C12-PCB 118	37:18	37:17	1	1569803	956096	294946	186086	1.64	AVV/AVV	
	13C12-PCB 114	37:50	37:49	1	1453894	891575	271526	169201	1.63	AVV/AVV	
	13C12-PCB 105	38:35	38:32	3	1456786	869405	277892	164585	1.68	ABV/ABV	
	13C12-PCB 127	39:55	39:54	1	1519919	945988	290520	182955	1.61	ABV/ABV	
	13C12-PCB 126	41:38	41:34	4	1524382	937046	270711	168047	1.63	ABV/ABV	M
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	395	403	158	161	0.98 *	/	
	PCB 155 (BZ)	31:58	32:02	-4	612703	472216	123771	97997	1.30	ABB/ABB	
	PCB 152 (BZ)	32:23	32:24	-1	537246	426093	114751	91271	1.26	ABV/ABV	
	PCB 150 (BZ)	32:28	32:30	-2	580613	426654	117092	88154	1.36	AVB/AVB	
	PCB 136 (BZ)	33:00	32:59	1	518602	398221	111153	79774	1.30	ABV/ABV	D
	PCB 145 (BZ)	33:12	33:11	1	551756	436697	107494	88407	1.26	AVB/AVB	D
	PCB 148 (BZ)	34:33	34:36	-3	408832	324249	84149	64316	1.26	ABV/ABV	
	PCB 135 (BZ)	35:21	35:20	1	1268327	998742	146046	119335	1.27	AVV/ABV	
	PCB 144 (BZ)	35:47	35:49	-2	419534	325847	83567	64822	1.29	AVB/AVB	
	PCB 147 (BZ)	36:09	36:09	0	1012545	812933	165264	135017	1.25	ABV/ABV	
	PCB 143 (BZ)	36:30	36:31	-1	856411	686209	100315	81509	1.25	AVV/AVV	
	PCB 139 (BZ)	36:43	36:43	0	1036403	819597	151071	122560	1.26	AVV/AVV	
	PCB 131 (BZ)	37:01	36:59	2	425269	335965	82199	63234	1.27	AVV/AVV	D
	PCB 142 (BZ)	37:09	37:09	0	422691	332675	83961	67850	1.27	AVB/AVB	D
	PCB 132 (BZ)	37:33	37:31	2	424341	330368	86379	67407	1.28	ABB/ABB	D
	PCB 133 (BZ)	37:50	37:53	-3	445982	370163	89334	72573	1.20	ABB/ABB	
	PCB 165 (BZ)	38:14	38:16	-2	610238	468983	123413	94812	1.30	ABV/ABV	
	PCB 146 (BZ)	38:30	38:30	0	543513	389127	105702	82142	1.40	AVV/AVV	
	PCB 161 (BZ)	38:36	38:39	-3	657284	559798	131366	104403	1.17	AVB/AVB	
	PCB 153 (BZ)	39:07	39:07	0	1323276	1037687	217392	173725	1.28	ABV/ABV	
	PCB 141 (BZ)	39:22	39:21	1	475029	388096	89030	72659	1.22	AVB/AVB	
	PCB 130 (BZ)	39:48	39:47	1	416507	338378	86926	69180	1.23	ABV/ABV	
	PCB 137 (BZ)	39:58	39:58	0	522696	413007	105929	83066	1.27	AVV/AVV	
	PCB 164 (BZ)	40:09	40:07	2	636142	496109	124560	97880	1.28	AVV/AVV	
	PCB 138 (BZ)	40:26	40:25	1	2260758	1740295	231206	176926	1.30	AVV/AVV	
	PCB 158 (BZ)	40:47	40:46	1	713955	579376	135958	113078	1.23	AVB/AVB	
	PCB 166 (BZ)	41:38	41:37	1	644746	519445	126598	100290	1.24	ABV/ABV	
	PCB 128 (BZ)	41:47	41:43	4	461403	365899	87605	67882	1.26	AVV/AVV	
	PCB 159 (BZ)	42:35	42:35	0	627111	516330	123900	98558	1.21	AVV/ABV	
	PCB 162 (BZ)	42:53	42:52	1	664147	516394	130237	108050	1.29	AVV/AVV	

Notes:
R = ratio is outside limits M = date changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

2078

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	09/27/07 12:16	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	PCB 167 (BZ)	43:21	43:22	-1	680753	528331	135682	110215	1.29	ABB/ABB	
	PCB 157 (BZ)	44:38	44:35	3	1330330	1042319	132271	102363	1.28	ABB/ABV	
	PCB 169 (BZ)	47:47	47:44	3	681627	543256	116715	98015	1.25	AVV/ABV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	160	173	64	69	0.93 *	/	
	13C12-PCB 155	31:57	32:01	-4	1155256	903001	239805	187116	1.28	ABV/ABV	
	13C12-PCB 153	39:03	39:04	-1	507755	389979	100225	76645	1.30	ABV/ABV	
	13C12-PCB 138	40:24	40:23	1	1003144	770860	195120	153601	1.30	ABV/ABV	
	13C12-PCB 167	43:19	43:19	0	1300714	1003033	249770	195490	1.30	AVV/AVV	
	13C12-PCB 156	44:36	44:28	8	2567814	1997428	261543	208470	1.29	AVV/AVV	M
	13C12-PCB 169	47:46	47:43	3	1202386	918526	226440	169310	1.31	ABV/ABV	
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	285	308	114	123	0.93	/	
	PCB 188 (BZ)	37:42	37:44	-2	567562	550565	114187	111196	1.03	ABV/ABV	
	PCB 179 (BZ)	38:12	38:12	0	546275	518674	112771	100488	1.05	AVV/ABV	D
	PCB 184 (BZ)	38:32	38:36	-4	521034	493123	103405	98421	1.06	AVV/AVV	
	PCB 176 (BZ)	39:02	39:03	-1	573887	546467	108812	109046	1.05	ABV/ABV	
	PCB 186 (BZ)	39:31	39:30	1	537368	508209	107163	99601	1.06	ABV/ABV	D
	PCB 178 (BZ)	40:47	40:49	-2	386376	376994	79311	71375	1.02	ABB/ABV	
	PCB 175 (BZ)	41:24	41:26	-2	424283	395237	84245	77564	1.07	ABV/ABV	
	PCB 187 (BZ)	41:40	41:42	-2	428797	424201	86182	86499	1.01	AVV/AVV	
	PCB 182 (BZ)	41:50	41:52	-2	456508	418911	92665	82603	1.09	AVV/AVB	
	PCB 183 (BZ)	42:16	42:17	-1	435443	408998	87233	81359	1.06	ABV/ABV	
	PCB 185 (BZ)	42:26	42:26	0	407005	378825	82079	75659	1.07	AVV/AVV	
	PCB 174 (BZ)	42:37	42:36	1	409893	382813	81627	73263	1.07	AVV/AVB	D
	PCB 177 (BZ)	43:03	43:03	0	386727	351784	72723	69144	1.10	ABB/ABB	
	PCB 181 (BZ)	43:22	43:23	-1	418673	398459	83256	78420	1.05	ABV/ABV	
	PCB 173 (BZ)	43:39	43:39	0	739405	701741	135355	130551	1.05	AVB/AVB	
	PCB 172 (BZ)	45:12	45:13	-1	359449	333240	73008	69059	1.08	ABB/ABV	
	PCB 192 (BZ)	45:28	45:28	0	504142	475124	100383	94061	1.06	ABB/AVB	
	PCB 193 (BZ)	45:49	45:47	2	1016682	973716	160952	151694	1.04	ABV/ABV	
	PCB 191 (BZ)	46:12	46:13	-1	535838	522370	102567	100726	1.03	AVB/AVV	
	PCB 170 (BZ)	47:11	47:10	1	374247	355409	68411	65060	1.05	ABV/ABV	
	PCB 190 (BZ)	47:41	47:39	2	565380	544097	105253	102654	1.04	ABV/AVV	
	PCB 189 (BZ)	50:13	50:12	1	616969	587601	115872	110562	1.05	AVV/AVV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	160	140	64	56	1.14	/	
	13C12-PCB 188	37:40	37:43	-3	1125972	1082668	226604	221678	1.04	ABV/ABV	
	13C12-PCB 178	40:46	40:47	-1	368921	346864	72928	68340	1.06	ABV/ABV	
	13C12-PCB 180	45:49	45:49	0	894424	853926	176055	169414	1.05	ABV/ABV	
	13C12-PCB 170	47:10	47:08	2	734307	714511	140578	142312	1.03	ABV/ABV	
	13C12-PCB 189	50:12	50:10	2	1204821	1123226	227659	207489	1.07	ABV/ABV	
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit O = peak outside RT window W = peak outside first/last X = peak has dup match

2079

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s1/a070927s1.	Prep Date		SDG No	
Analysis ID	99480	Prep Exp Date		Date Received	
Analysis Date	09/27/07 12:16	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

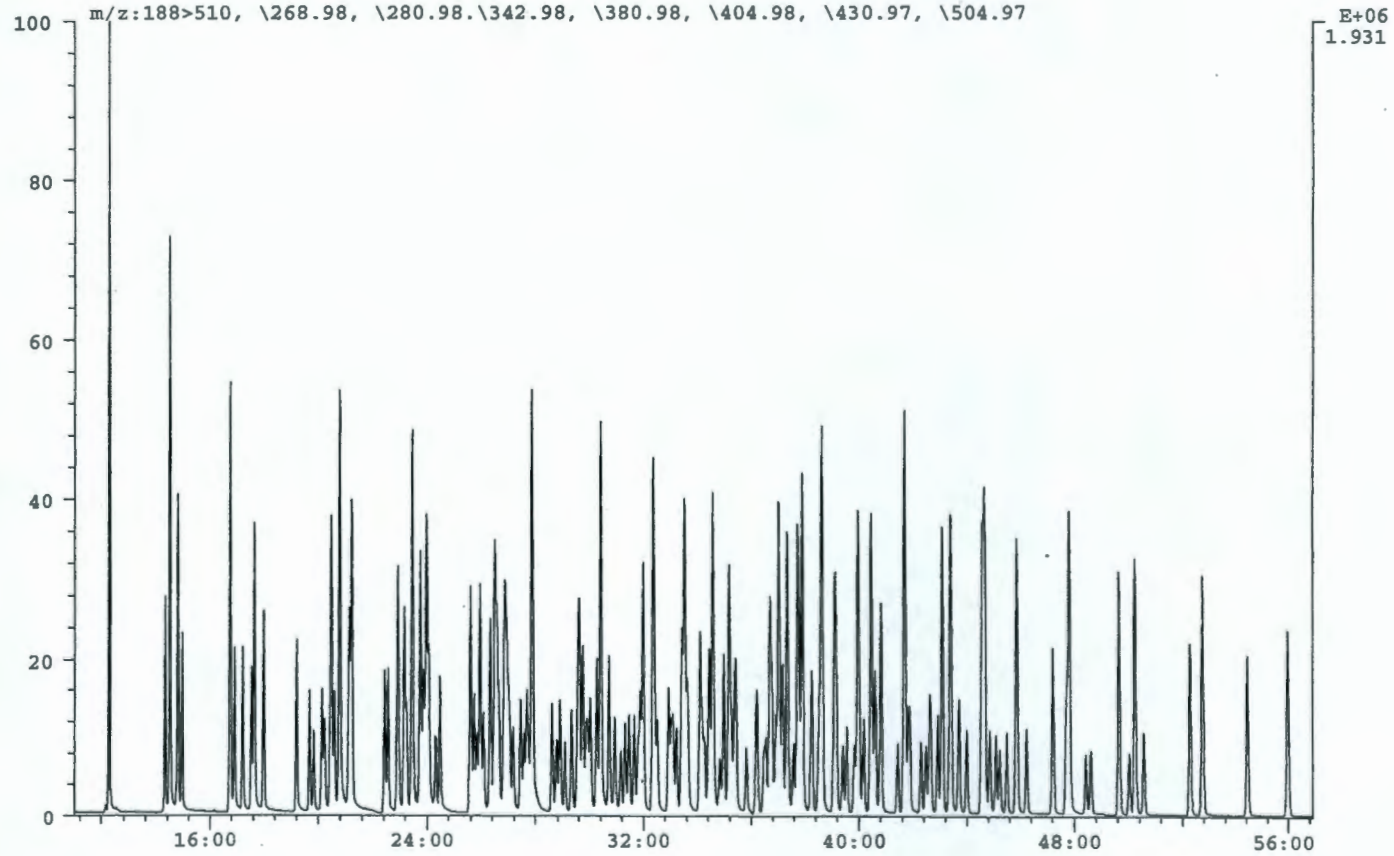
View Small Peaks? False View deleted peaks? False

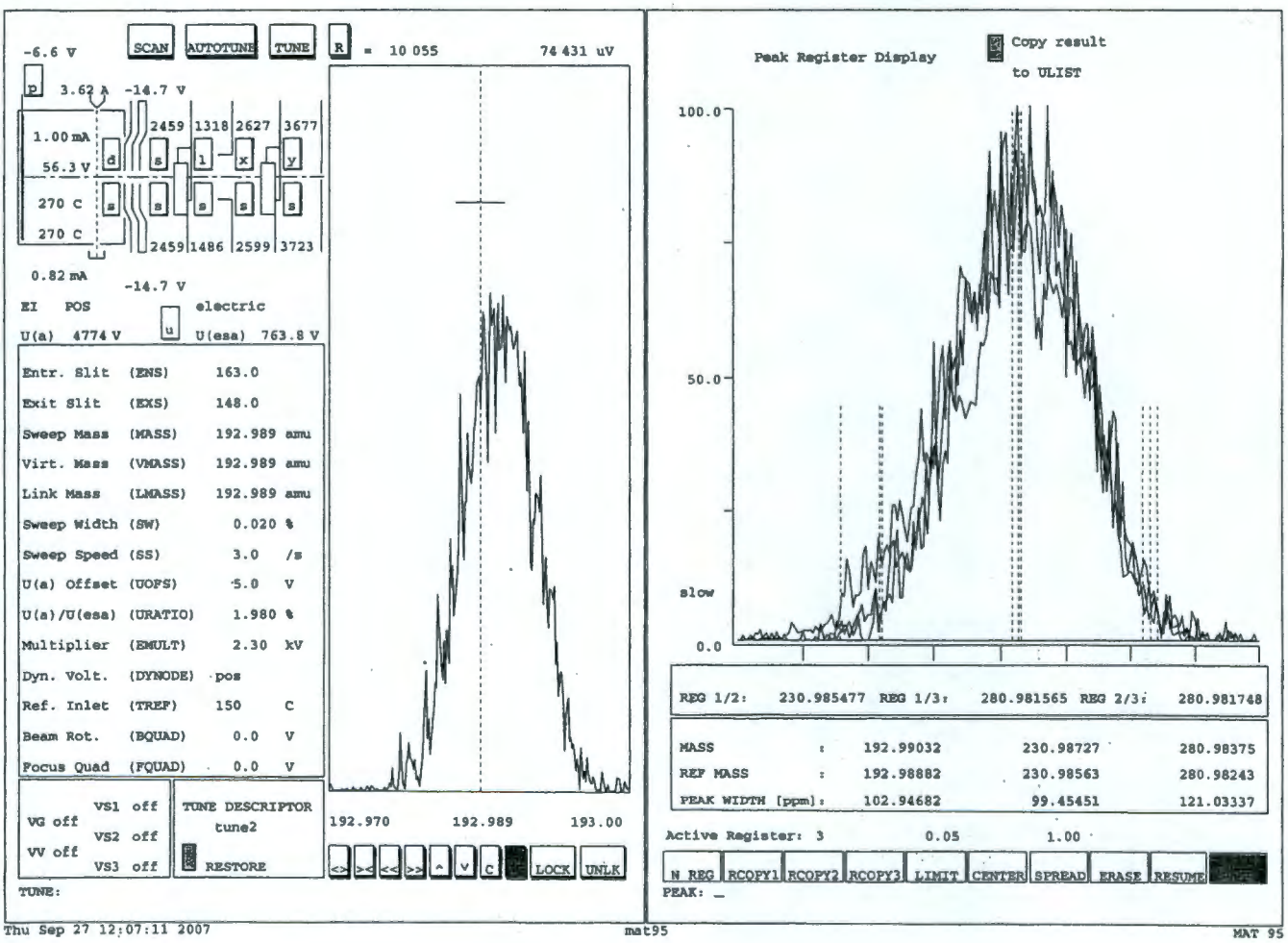
Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	213	195	85	78	1.09 *	/	
	PCB 202 (BZ)	43:03	43:04	-1	415235	471927	81460	94126	0.88	ABV/ABV	
	PCB 200 (BZ)/201 (IUPAC	43:57	44:00	-3	457126	525977	93236	107174	0.87	ABV/ABV	
	PCB 204 (BZ)	44:35	44:37	-2	433329	488141	82190	99875	0.89	ABV/ABV	
	PCB 197 (BZ)	44:50	44:51	-1	459945	511956	89963	101061	0.90	AVV/AVV	
	PCB 199 (BZ)/200 (IUPAC	45:04	45:03	1	436918	489342	87050	98139	0.89	AVB/AVB	
	PCB 198 (BZ)	47:46	47:43	3	633122	717135	71745	81749	0.88	ABV/ABV	
	PCB 196 (BZ)	48:24	48:26	-2	321850	355274	62812	73765	0.91	ABV/ABV	
	PCB 203 (BZ)	48:36	48:36	0	365916	395674	70288	75234	0.92	AVV/AVV	
	PCB 195 (BZ)	50:01	49:56	5	359013	386250	67362	74167	0.93	ABV/ABV	M
	PCB 194 (BZ)	52:17	52:15	2	380550	416445	77480	82350	0.91	ABV/ABV	
	PCB 205 (BZ)	52:44	52:43	1	469103	519457	92834	97832	0.90	AVV/ABV	
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	110	115	44	46	0.96	/	
	13C12-PCB 202	43:02	43:03	-1	928965	1012200	190795	207622	0.92	ABV/ABV	
	13C12-PCB 194	52:15	52:14	1	701848	766064	135547	146757	0.92	ABV/ABV	
	13C12-PCB 205	52:43	52:41	2	1023008	1125583	194127	215029	0.91	AVV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	125	140	50	56	0.89 *	/	
	PCB 208 (BZ)	49:38	49:39	-1	425861	546396	84137	109290	0.78	ABV/ABV	
	PCB 207 (BZ)	50:33	50:35	-2	427624	554315	81964	108476	0.77	ABV/ABV	
	PCB 206 (BZ)	54:26	54:24	2	303685	384997	56575	73386	0.79	ABV/ABV	
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	128	138	51	55	0.93 *	/	
	13C12-PCB 208	49:37	49:38	-1	898269	1151131	174995	230234	0.78	ABV/ABV	
	13C12-PCB 206	54:23	54:23	0	594710	741316	117780	149266	0.80	ABV/ABV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	58	123	23	49	0.47 *	/	
	PCB 209 (BZ)	55:57	55:59	-2	319240	443190	56592	79932	0.72	ABV/ABV	
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	105	160	42	64	0.66	/	
	13C12-PCB 209	55:56	55:58	-2	681436	976750	127231	178352	0.70	ABV/ABV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Int/Calc OFW 9/27/07
@cpmp 9-27-07

```
CHRO:  a070927s1                                27-Sep-07  Elapse:  11:00.8        1
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC      Vial   1
Peak:  100.00  ppm      Label wndw:   2 > 2596             Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 3               Label :  0, 0.0
Disp:  Height  Area
```

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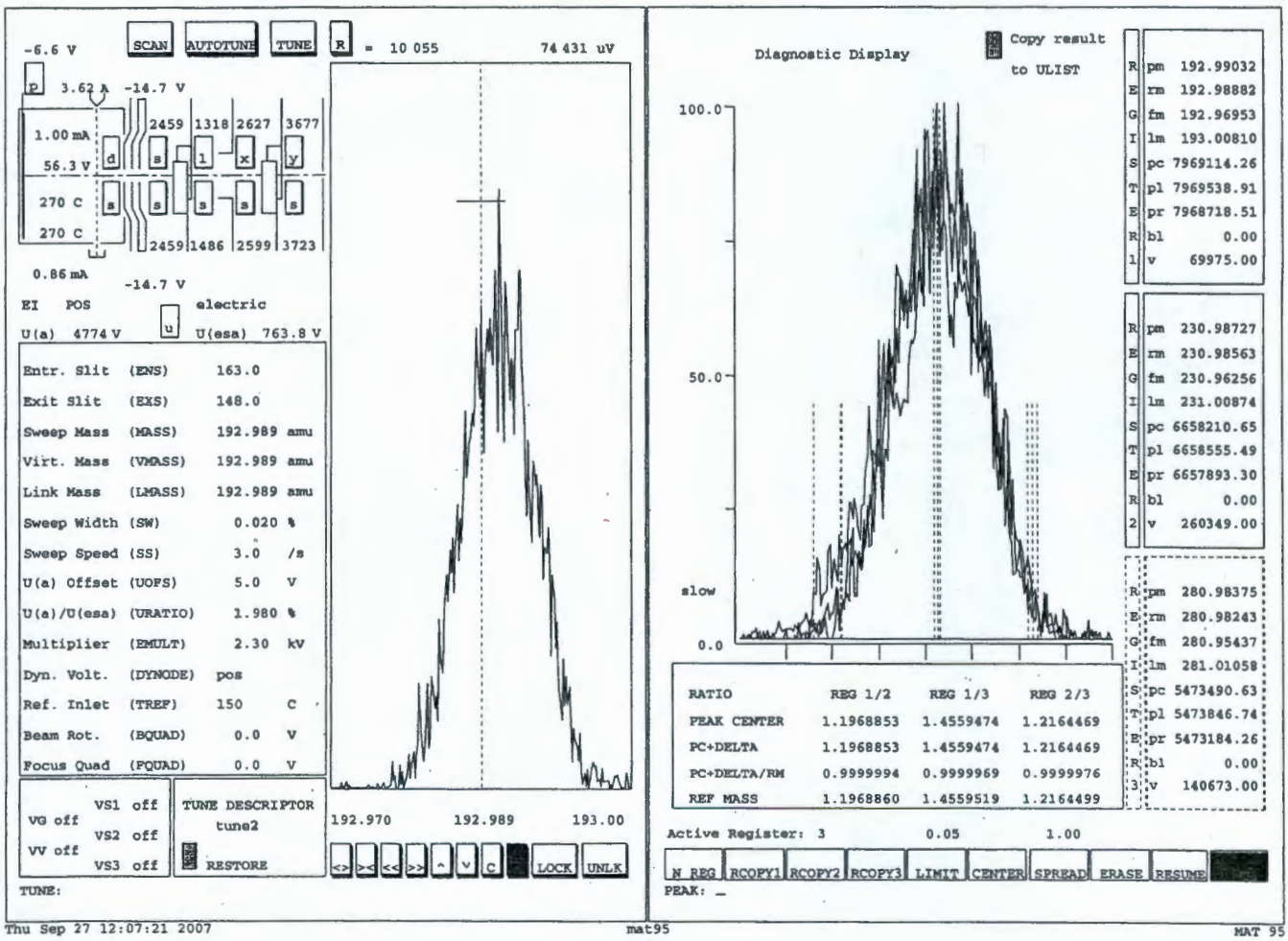
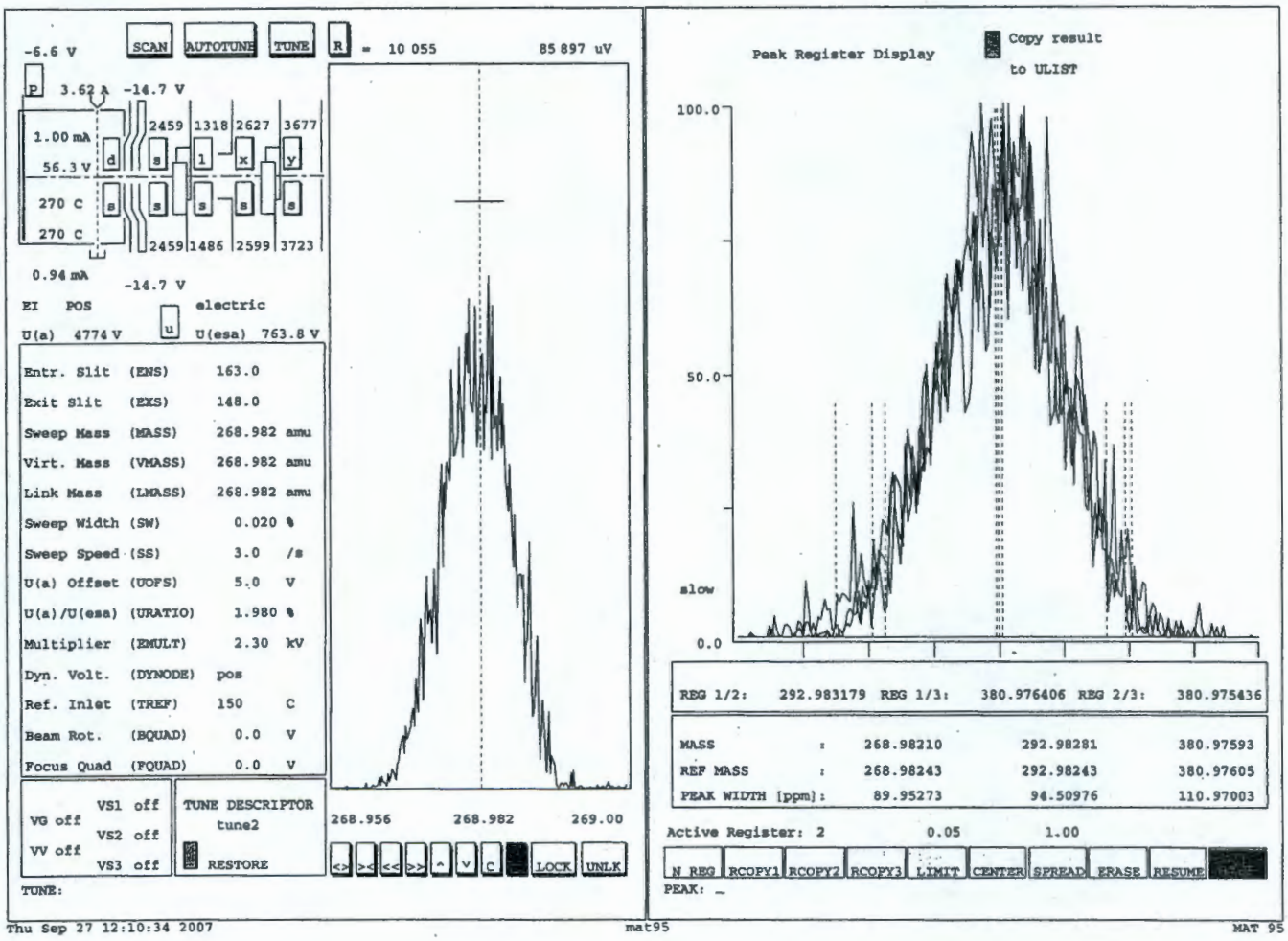
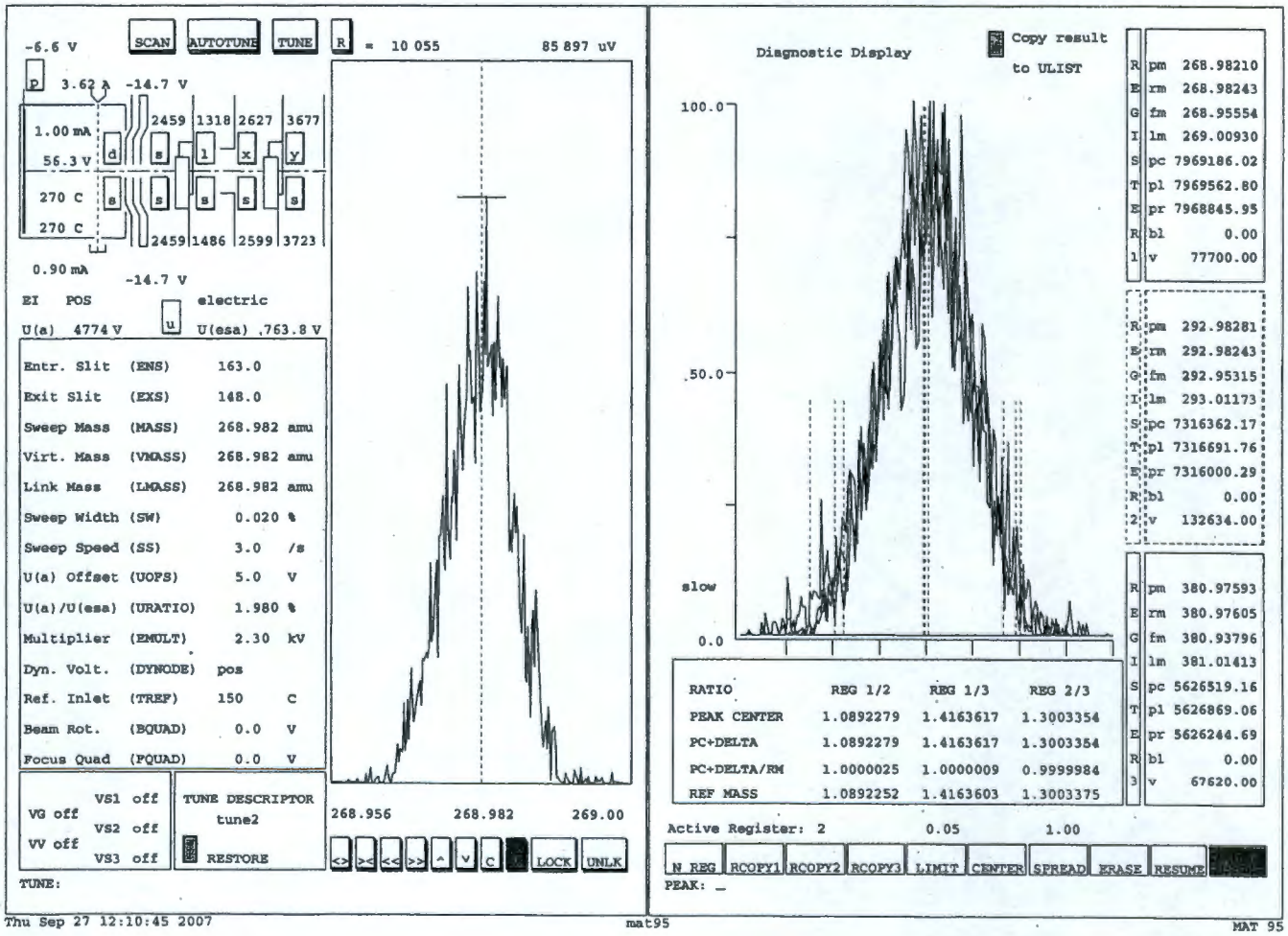
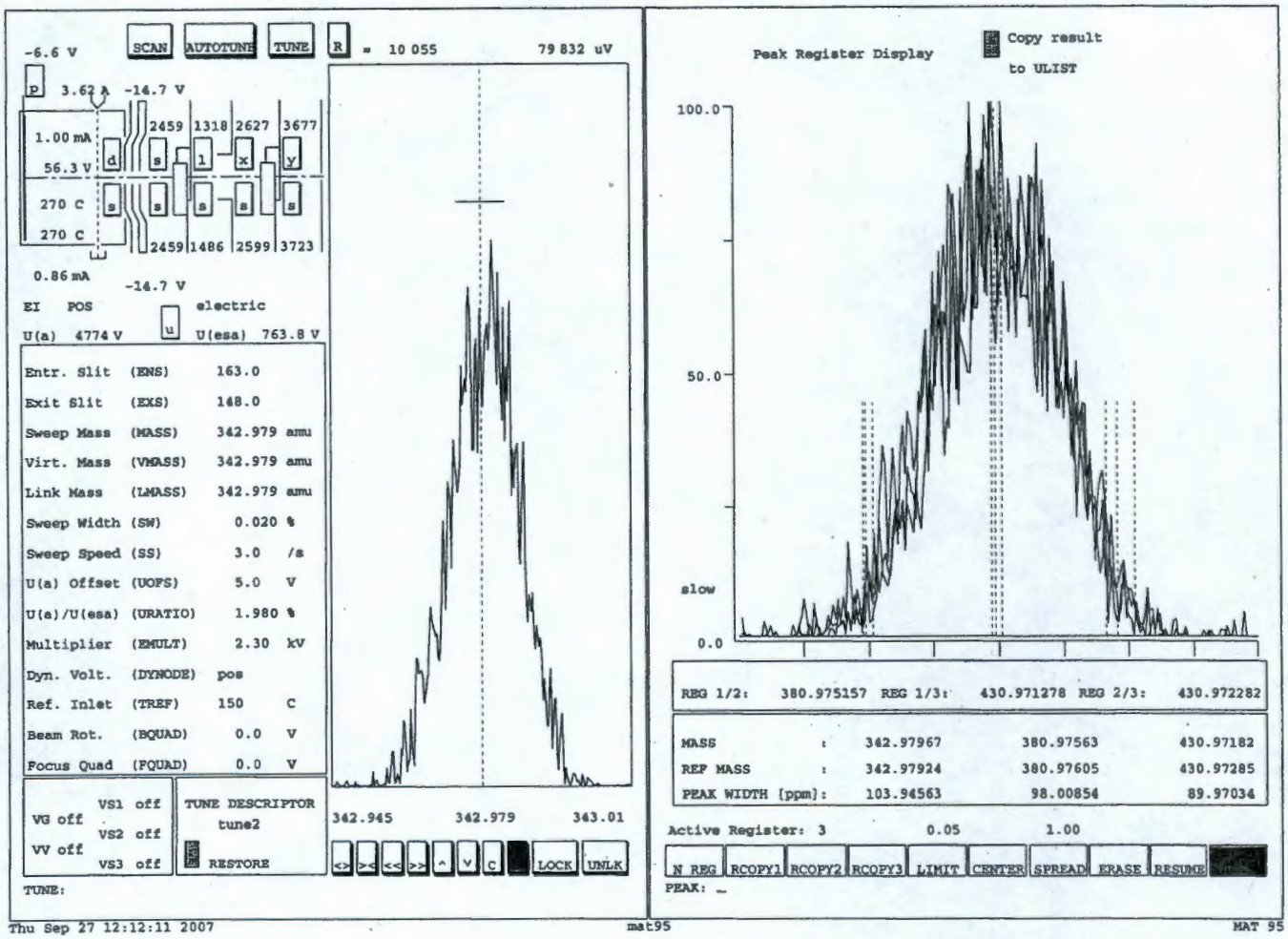
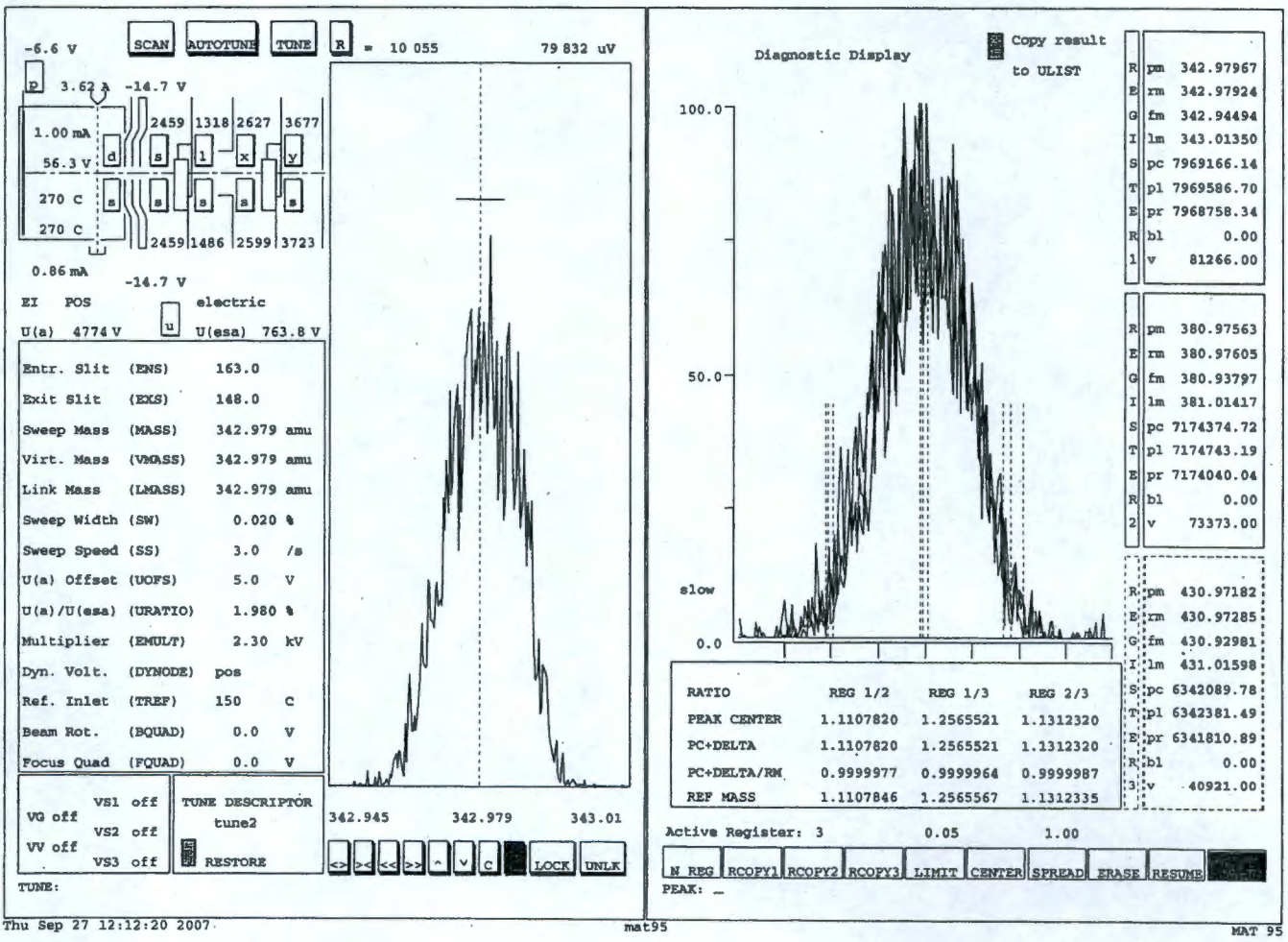
SCAN
AUTOTUNE
TUNE
R
= 10 055
74 431 uV
p
3.62 A
-14.7 V
1.00 mA
56.3 V
2459 1318 2627 3677
d s l x y
270 C
270 C
s s s s s
2459 1486 2599 3723
0.82 mA
-14.7 V
EI POS
electric
U(a) 4774 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 192.989 amu
Virt. Mass (VMASS) 192.989 amu
Link Mass (LMASS) 192.989 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
RESTORE
192.970 192.989 193.00
<> >< << >> ^ v C
LOCK UNLK
TUNE:
Peak Register Display
Copy result to ULIST
100.0
50.0
slow
0.0
REG 1/2: 230.985477 REG 1/3: 280.981565 REG 2/3: 280.981748
MASS : 192.99032 230.98727 280.98375
REF MASS : 192.98882 230.98563 280.98243
PEAK WIDTH [ppm]: 102.94682 99.45451 121.03337
Active Register: 3 0.05 1.00
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME
PEAK: _
Thu Sep 27 12:07:11 2007
mat95
MAT 95

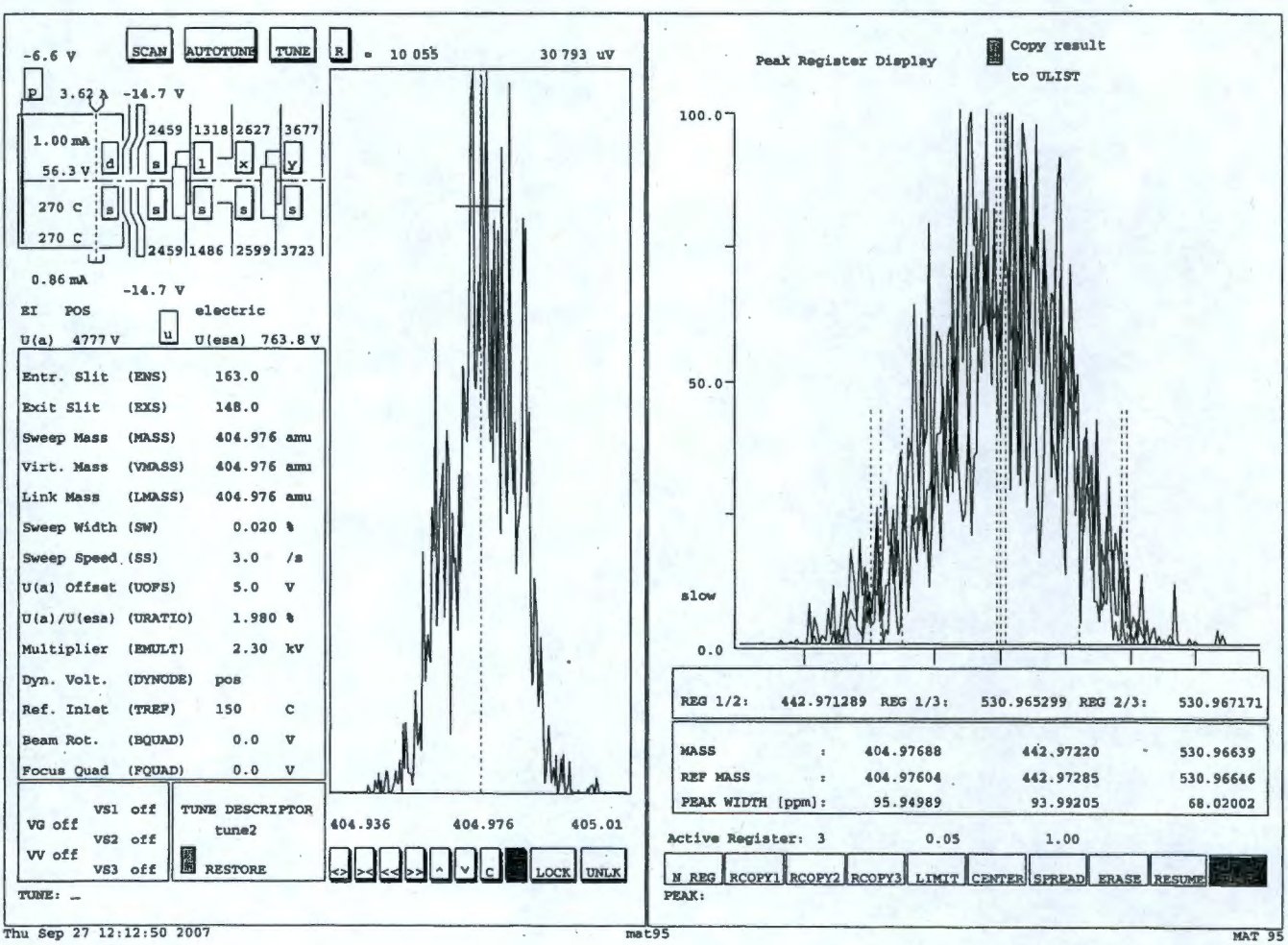

-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 055
74 431 uV
p
3.62 A
-14.7 V
1.00 mA
56.3 V
270 C
270 C
2459
1318
2627
3677
2459
1486
2599
3723
0.86 mA
-14.7 V
EI POS
electric
U(a) 4774 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 192.989 amu
Virt. Mass (VMASS) 192.989 amu
Link Mass (LMASS) 192.989 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
RESTORE
192.970
192.989
193.00
LOCK
UNLK
TUNE:
Diagnostic Display
Copy result
to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1968853 1.4559474 1.2164469
PC+DELTA 1.1968853 1.4559474 1.2164469
PC+DELTA/RM 0.9999994 0.9999969 0.9999976
REF MASS 1.1968860 1.4559519 1.2164499
REGISTER 1
pm 192.99032
rm 192.98882
fm 192.96953
lm 193.00810
pc 7969114.26
pl 7969538.91
pr 7968718.51
bl 0.00
v 69975.00
REGISTER 2
pm 230.98727
rm 230.98563
fm 230.96256
lm 231.00874
pc 6658210.65
pl 6658555.49
pr 6657893.30
bl 0.00
v 260349.00
REGISTER 3
pm 280.98375
rm 280.98243
fm 280.95437
lm 281.01058
pc 5473490.63
pl 5473846.74
pr 5473184.26
bl 0.00
v 140673.00
Active Register: 3
0.05
1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Thu Sep 27 12:07:21 2007
mat95
MAT 95


-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 055
85 897 uV
P
3.62 A
-14.7 V
1.00 mA
56.3 V
2459
1318
2627
3677
270 C
270 C
2459
1486
2599
3723
0.94 mA
-14.7 V
EI POS
electric
U(a) 4774 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 268.982 amu
Virt. Mass (VMASS) 268.982 amu
Link Mass (LMASS) 268.982 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
RESTORE
268.956
268.982
269.00
LOCK
UNLK
TUNE:
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 292.983179 REG 1/3: 380.976406 REG 2/3: 380.975436
MASS : 268.98210 292.98281 380.97593
REF MASS : 268.98243 292.98243 380.97605
PEAK WIDTH [ppm]: 89.95273 94.50976 110.97003
Active Register: 2 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Thu Sep 27 12:10:34 2007
mat95
MAT 95

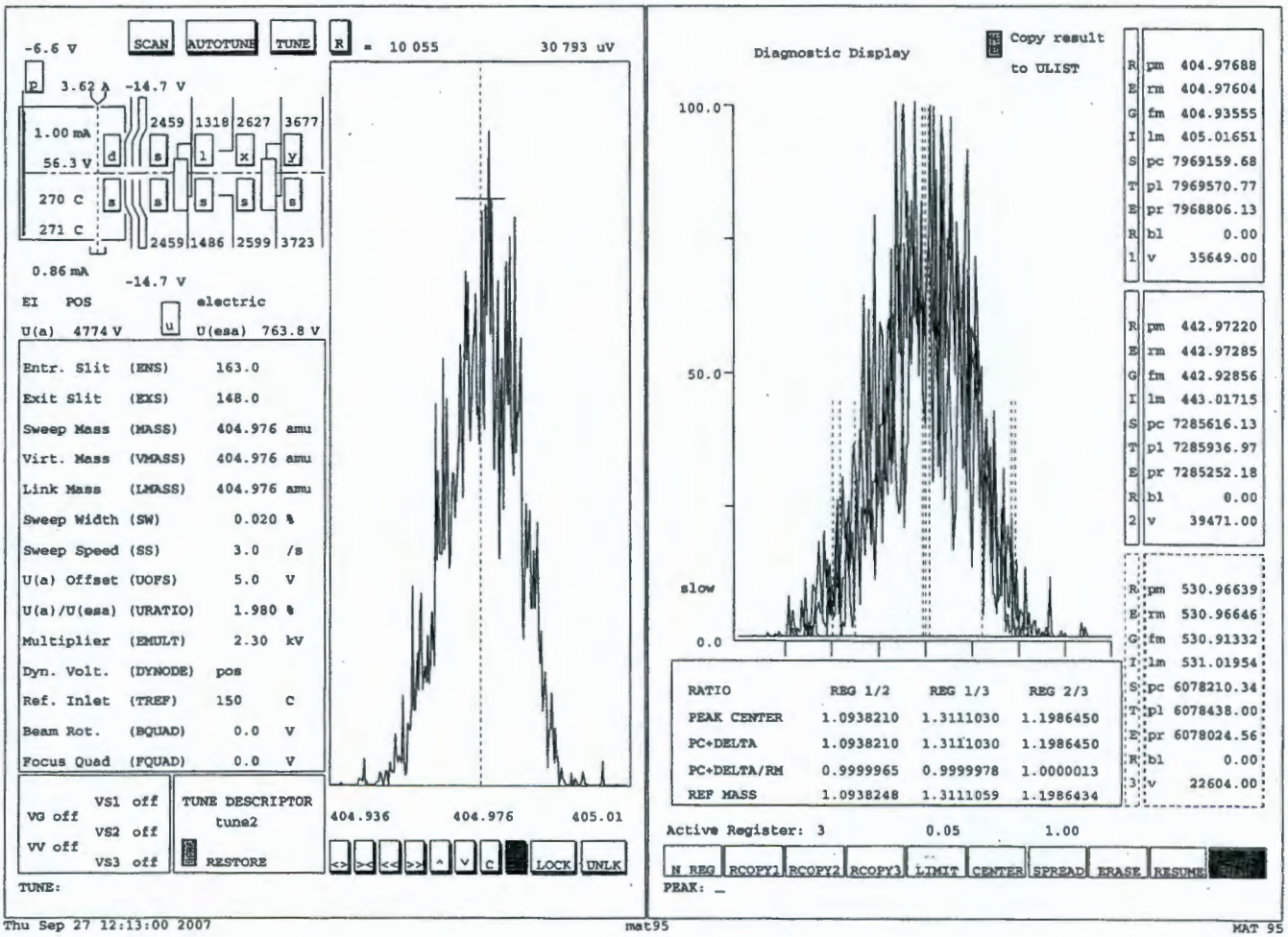

-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 055
85 897 uV
p
3.62 A
-14.7 V
1.00 mA
56.3 V
2459
1318
2627
3677
d
s
l
x
y
270 C
270 C
2459
1486
2599
3723
0.90 mA
-14.7 V
EI POS
electric
U(a) 4774 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 268.982 amu
Virt. Mass (VMASS) 268.982 amu
Link Mass (LMASS) 268.982 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
RESTORE
268.956
268.982
269.00
LOCK
UNLK
TUNE:
Diagnostic Display
Copy result
to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.0892279 1.4163617 1.3003354
PC+DELTA 1.0892279 1.4163617 1.3003354
PC+DELTA/RM 1.0000025 1.0000009 0.9999984
REF MASS 1.0892252 1.4163603 1.3003375
REGIS 1 pm 268.98210
rm 268.98243
fm 268.95554
lm 269.00930
pc 7969186.02
pl 7969562.80
pr 7968845.95
bl 0.00
v 77700.00
REGIS 2 pm 292.98281
rm 292.98243
fm 292.95315
lm 293.01173
pc 7316362.17
pl 7316691.76
pr 7316000.29
bl 0.00
v 132634.00
REGIS 3 pm 380.97593
rm 380.97605
fm 380.93796
lm 381.01413
pc 5626519.16
pl 5626869.06
pr 5626244.69
bl 0.00
v 67620.00
Active Register: 2
0.05
1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Thu Sep 27 12:10:45 2007
mat95
MAT 95

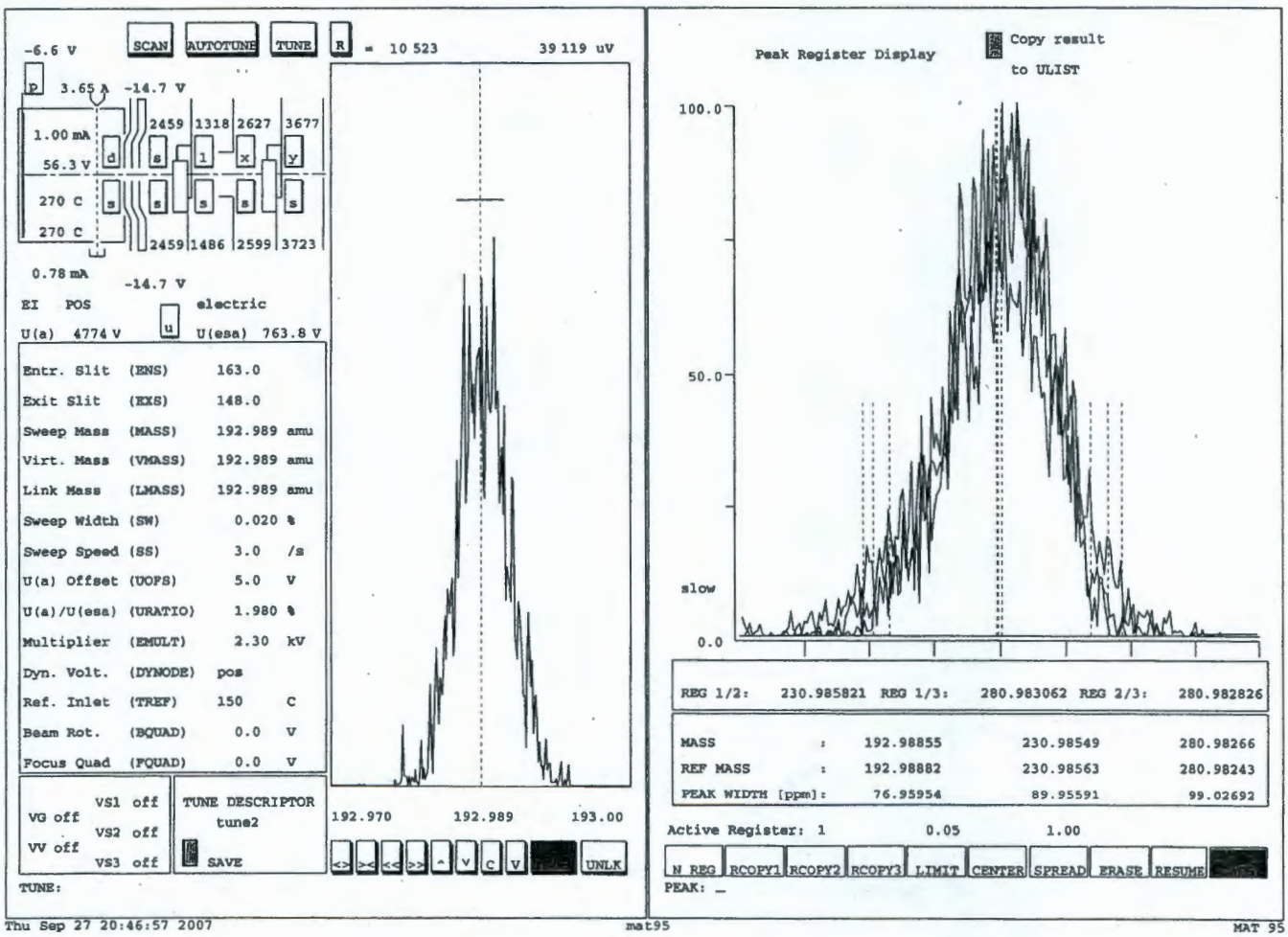

-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 055
79 832 uV
P
3.62 A
-14.7 V
1.00 mA
56.3 V
2459
1318
2627
3677
d
s
l
x
y
270 C
270 C
2459
1486
2599
3723
0.86 mA
-14.7 V
EI POS
electric
U(a) 4774 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 342.979 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
RESTORE
342.945
342.979
343.01
LOCK
UNLK
TUNE:
Thu Sep 27 12:12:11 2007
mat95
Peak Register Display
Copy result to ULIST
100.0
50.0
slow
0.0
REG 1/2: 380.975157 REG 1/3: 430.971278 REG 2/3: 430.972282
MASS : 342.97967 380.97563 430.97182
REF MASS : 342.97924 380.97605 430.97285
PEAK WIDTH [ppm]: 103.94563 98.00854 89.97034
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK:
MAT 95

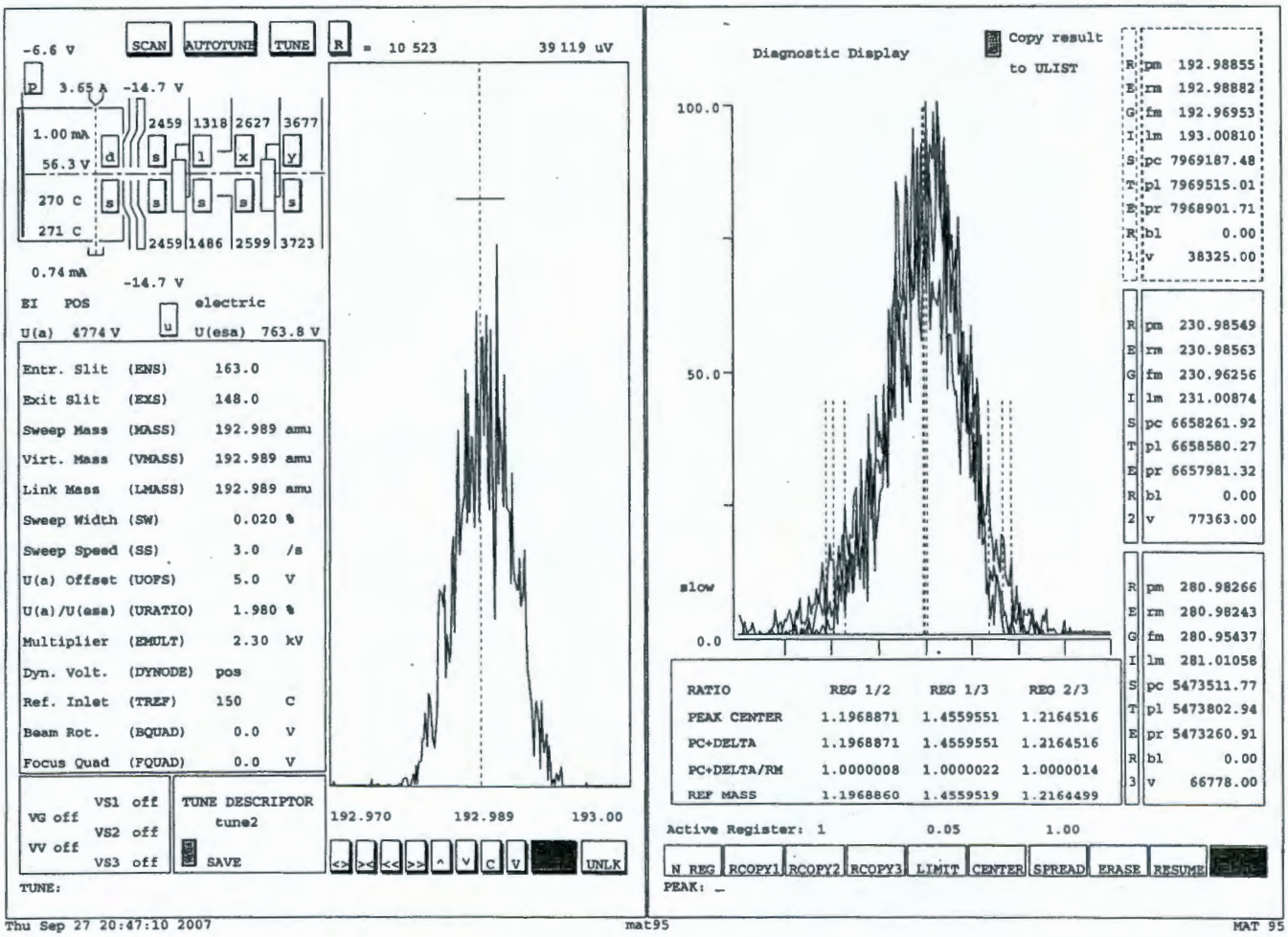

-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 055
79 832 uV
3.62 A
-14.7 V
1.00 mA
56.3 V
2459 1318 2627 3677
270 C
270 C
2459 1486 2599 3723
0.86 mA
-14.7 V
EI POS
electric
U(a) 4774 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 342.979 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VS3 off
VV off
TUNE DESCRIPTOR
tune2
RESTORE
342.945
342.979
343.01
LOCK
UNLK
TUNE:
Diagnostic Display
Copy result to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1107820 1.2565521 1.1312320
PC+DELTA 1.1107820 1.2565521 1.1312320
PC+DELTA/RM 0.9999977 0.9999964 0.9999987
REF MASS 1.1107846 1.2565567 1.1312335
REG 1
pm 342.97967
rm 342.97924
fm 342.94494
lm 343.01350
pc 7969166.14
pl 7969586.70
pr 7968758.34
bl 0.00
v 81266.00
REG 2
pm 380.97563
rm 380.97605
fm 380.93797
lm 381.01417
pc 7174374.72
pl 7174743.19
pr 7174040.04
bl 0.00
v 73373.00
REG 3
pm 430.97182
rm 430.97285
fm 430.92981
lm 431.01598
pc 6342089.78
pl 6342381.49
pr 6341810.89
bl 0.00
v 40921.00
Active Register: 3
0.05
1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK:
Thu Sep 27 12:12:20 2007
mat95
MAT 95



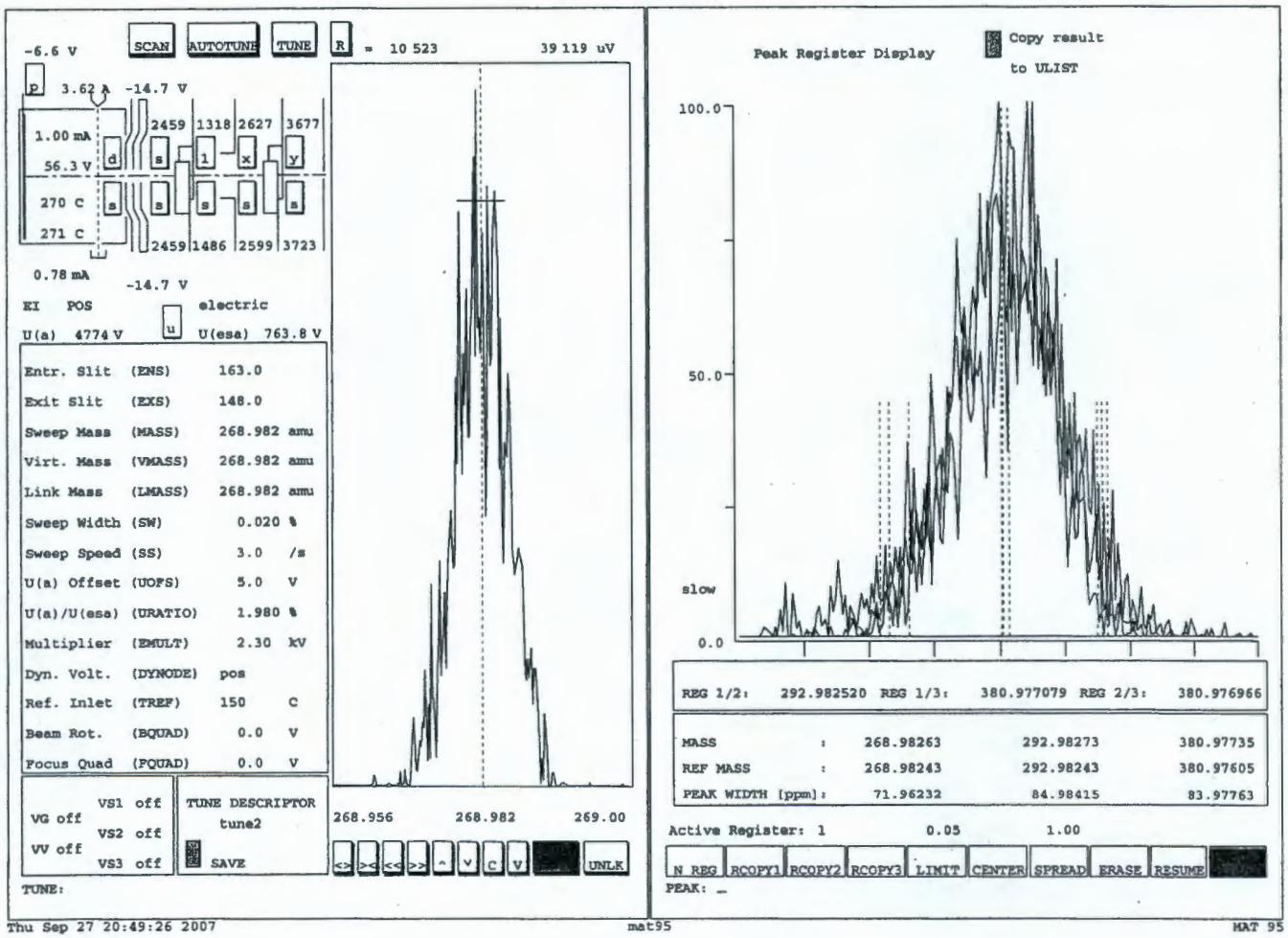
Thu Sep 27 12:12:50 2007 mat95 MAT 95

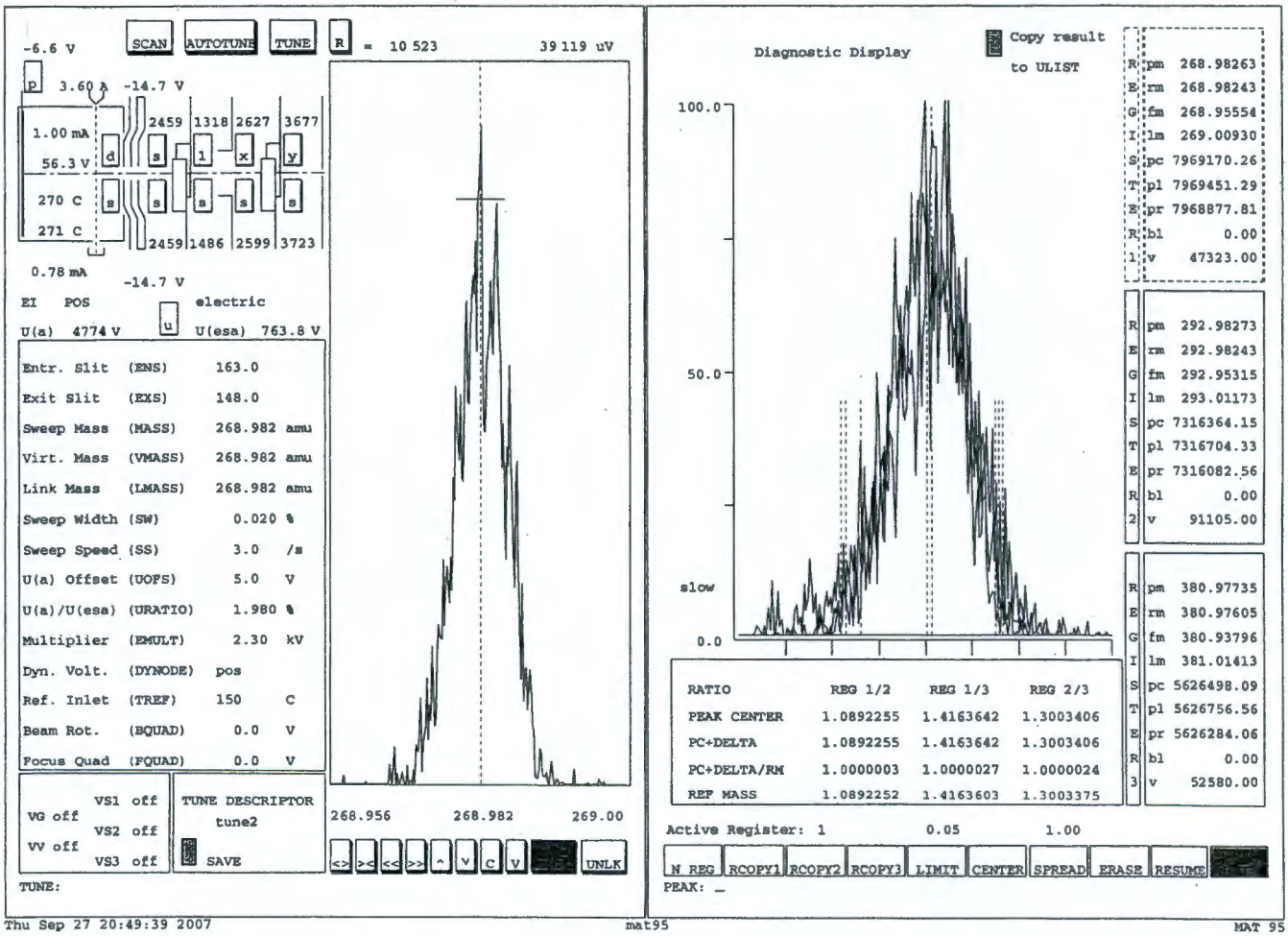

-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 055
30 793 uV
3.62 A
-14.7 V
1.00 mA
56.3 V
2459 1318 2627 3677
270 C
271 C
2459 1486 2599 3723
0.86 mA
-14.7 V
EI POS
electric
U(a) 4774 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 404.976 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VS3 off
VV off
TUNE DESCRIPTOR
tune2
RESTORE
404.936
404.976
405.01
LOCK
UNLK
TUNE:
Diagnostic Display
Copy result to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.0938210 1.3111030 1.1986450
PC+DELTA 1.0938210 1.3111030 1.1986450
PC+DELTA/RM 0.9999965 0.9999978 1.0000013
REF MASS 1.0938248 1.3111059 1.1986434
REGISTER 1
pm 404.97688
rm 404.97604
fm 404.93555
lm 405.01651
pc 7969159.68
pl 7969570.77
pr 7968806.13
bl 0.00
v 35649.00
REGISTER 2
pm 442.97220
rm 442.97285
fm 442.92856
lm 443.01715
pc 7285616.13
pl 7285936.97
pr 7285252.18
bl 0.00
v 39471.00
REGISTER 3
pm 530.96639
rm 530.96646
fm 530.91332
lm 531.01954
pc 6078210.34
pl 6078438.00
pr 6078024.56
bl 0.00
v 22604.00
Active Register: 3
0.05
1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Thu Sep 27 12:13:00 2007
mat95
MAT 95

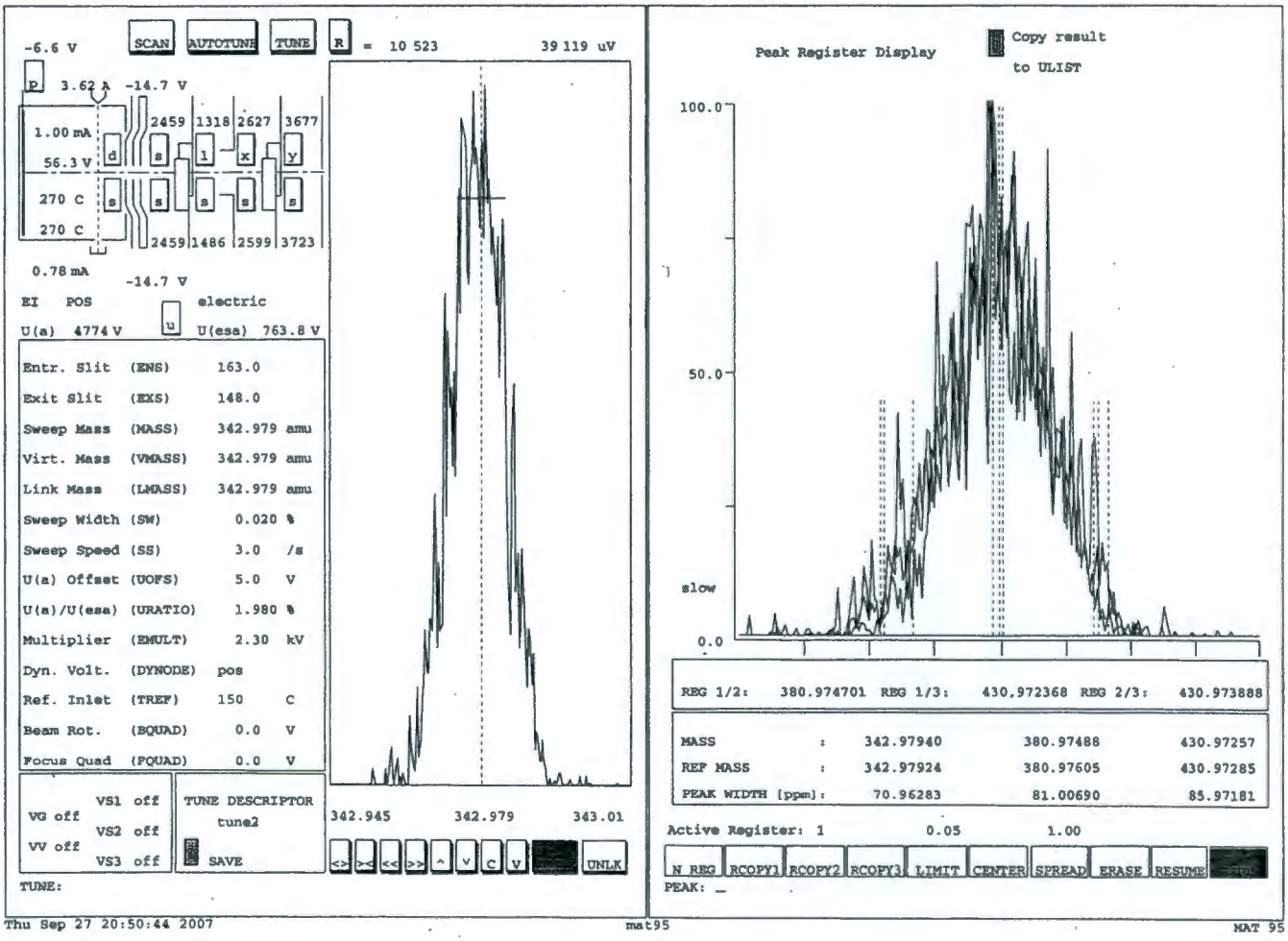

-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 523
39 119 uV
3.65 A
-14.7 V
1.00 mA
56.3 V
270 C
270 C
2459 1318 2627 3677
2459 1486 2599 3723
0.78 mA
-14.7 V
EI POS
electric
U(a) 4774 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 192.989 amu
Virt. Mass (VMASS) 192.989 amu
Link Mass (LMASS) 192.989 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VS3 off
VV off
TUNE DESCRIPTOR
tune2
SAVE
192.970
192.989
193.00
UNLK
TUNE:
Peak Register Display
Copy result to ULIST
100.0
50.0
slow
0.0
REG 1/2: 230.985821 REG 1/3: 280.983062 REG 2/3: 280.982826
MASS : 192.98855 230.98549 280.98266
REF MASS : 192.98882 230.98563 280.98243
PEAK WIDTH [ppm]: 76.95954 89.95591 99.02692
Active Register: 1 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Thu Sep 27 20:46:57 2007
mat95
MAT 95

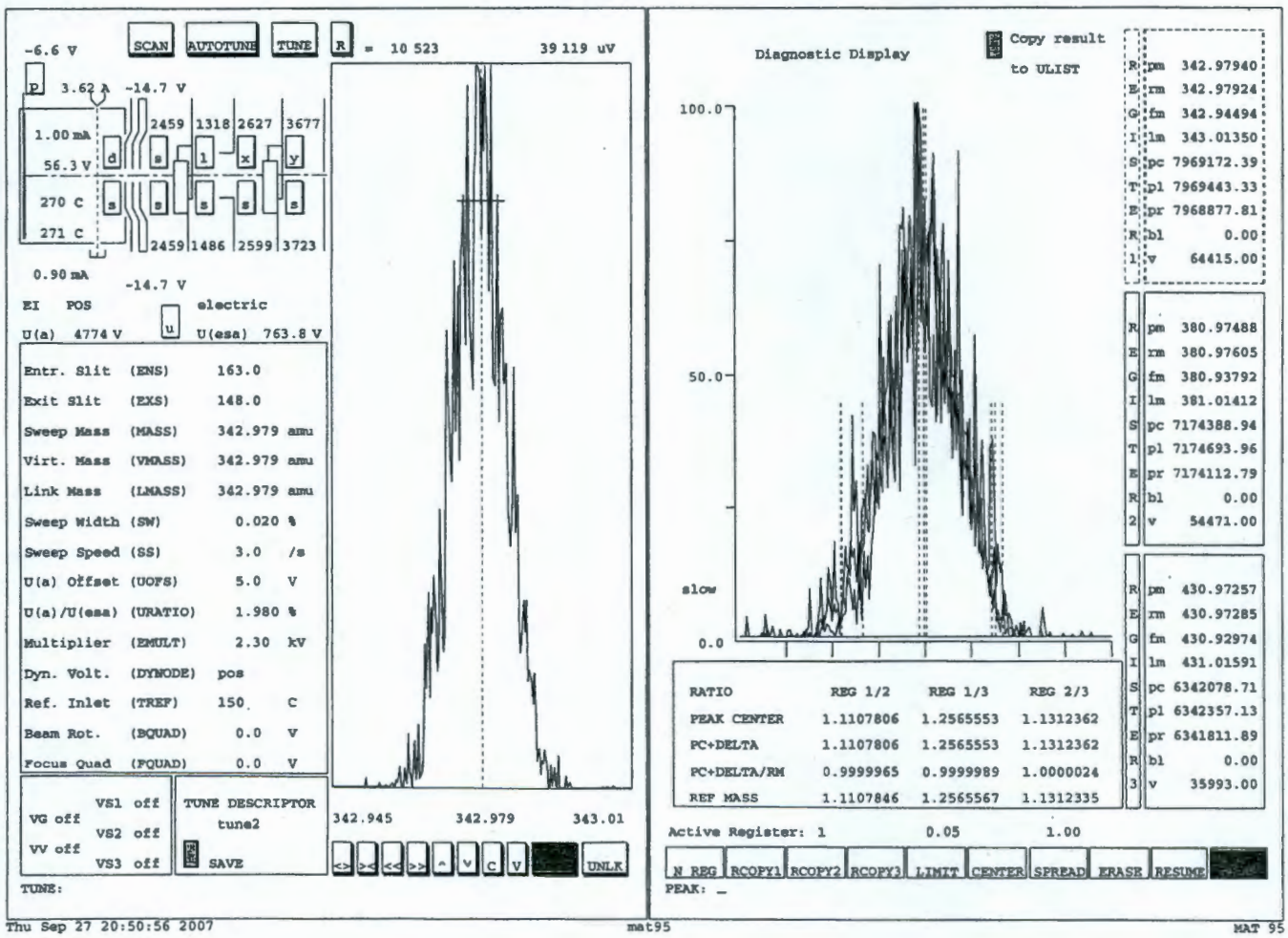


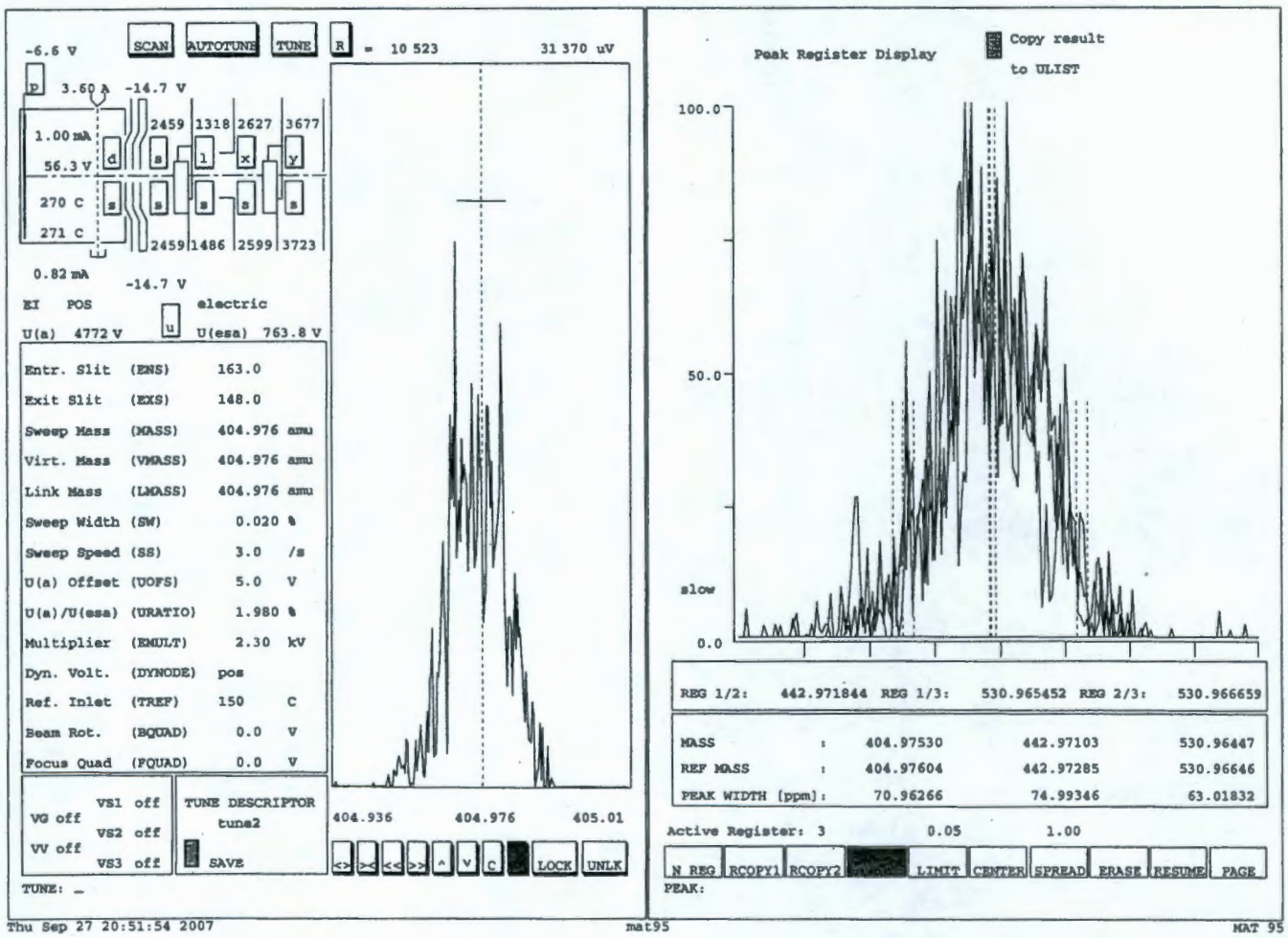
Thu Sep 27 20:47:10 2007 mat95 MAT 95

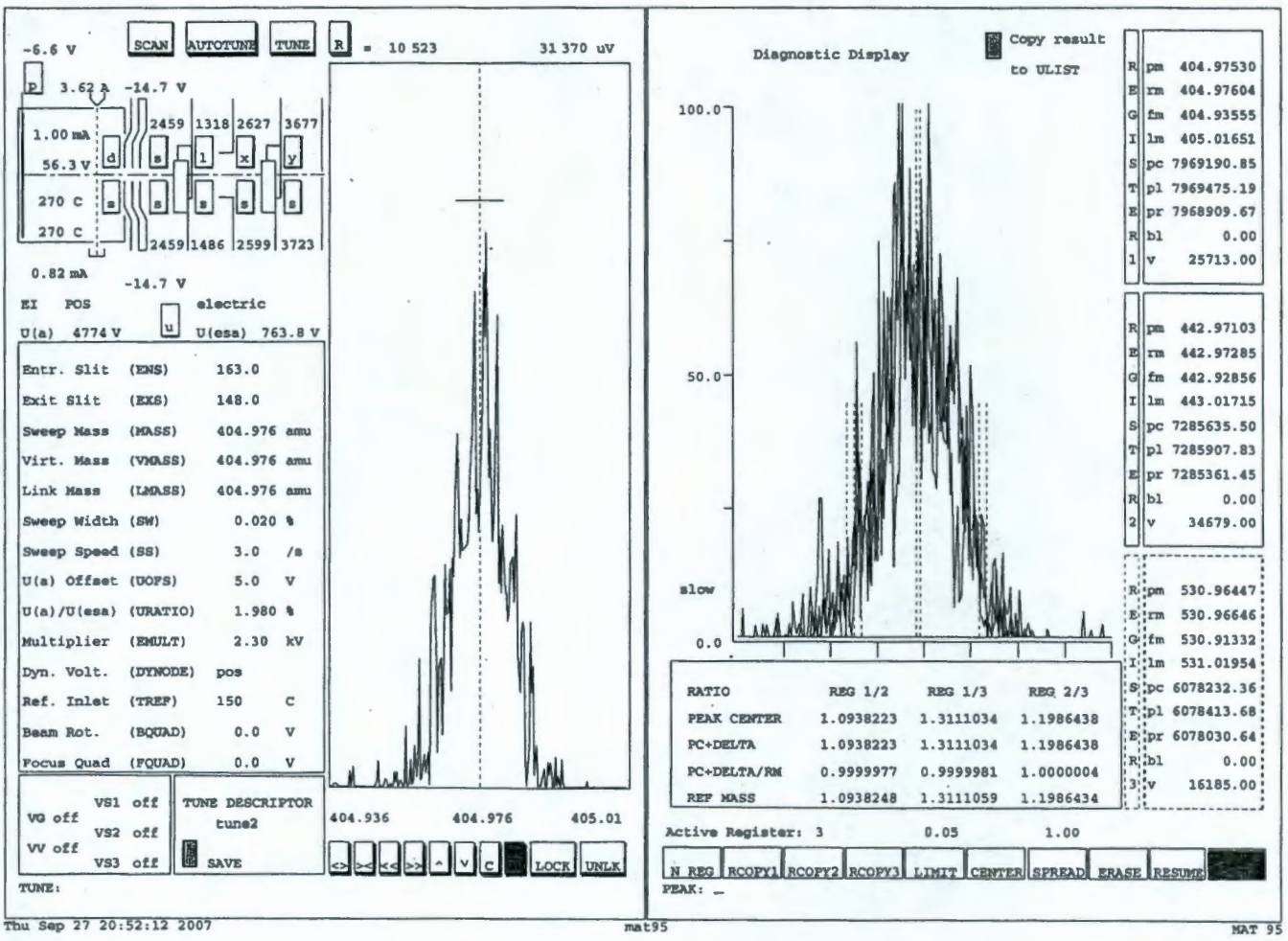

-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 523
39 119 uV
p
3.62 A
-14.7 V
1.00 mA
56.3 V
2459
1318
2627
3677
d
s
1
x
y
270 C
271 C
2459
1486
2599
3723
0.78 mA
-14.7 V
EI POS
electric
u
U(a) 4774 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 268.982 amu
Virt. Mass (VMASS) 268.982 amu
Link Mass (LMASS) 268.982 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
268.956
268.982
269.00
UNLK
TUNE:
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 292.982520 REG 1/3: 380.977079 REG 2/3: 380.976966
MASS : 268.98263 292.98273 380.97735
REF MASS : 268.98243 292.98243 380.97605
PEAK WIDTH [ppm]: 71.96232 84.98415 83.97763
Active Register: 1 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Thu Sep 27 20:49:26 2007
mat95
MAT 95


SCAN
AUTOTUNE
TUNE
R = 10 523
39 119 uV
-6.6 V
3.60 A
-14.7 V
1.00 mA
56.3 V
270 C
271 C
2459 1318 2627 3677
2459 1486 2599 3723
0.78 mA
-14.7 V
EI POS
electric
U(a) 4774 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 268.982 amu
Virt. Mass (VMASS) 268.982 amu
Link Mass (LMASS) 268.982 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
268.956
268.982
269.00
UNLK
TUNE:
Diagnostic Display
Copy result to ULIST
100.0
50.0
slow
0.0
REG 1 pm 268.98263 rm 268.98243 fm 268.95554 lm 269.00930 pc 7969170.26 pl 7969451.29 pr 7968877.81 bl 0.00 v 47323.00
REG 2 pm 292.98273 rm 292.98243 fm 292.95315 lm 293.01173 pc 7316364.15 pl 7316704.33 pr 7316082.56 bl 0.00 v 91105.00
REG 3 pm 380.97735 rm 380.97605 fm 380.93796 lm 381.01413 pc 5626498.09 pl 5626756.56 pr 5626284.06 bl 0.00 v 52580.00
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.0892255 1.4163642 1.3003406
PC+DELTA 1.0892255 1.4163642 1.3003406
PC+DELTA/RM 1.0000003 1.0000027 1.0000024
REF MASS 1.0892252 1.4163603 1.3003375
Active Register: 1 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Thu Sep 27 20:49:39 2007
mat95
MAT 95

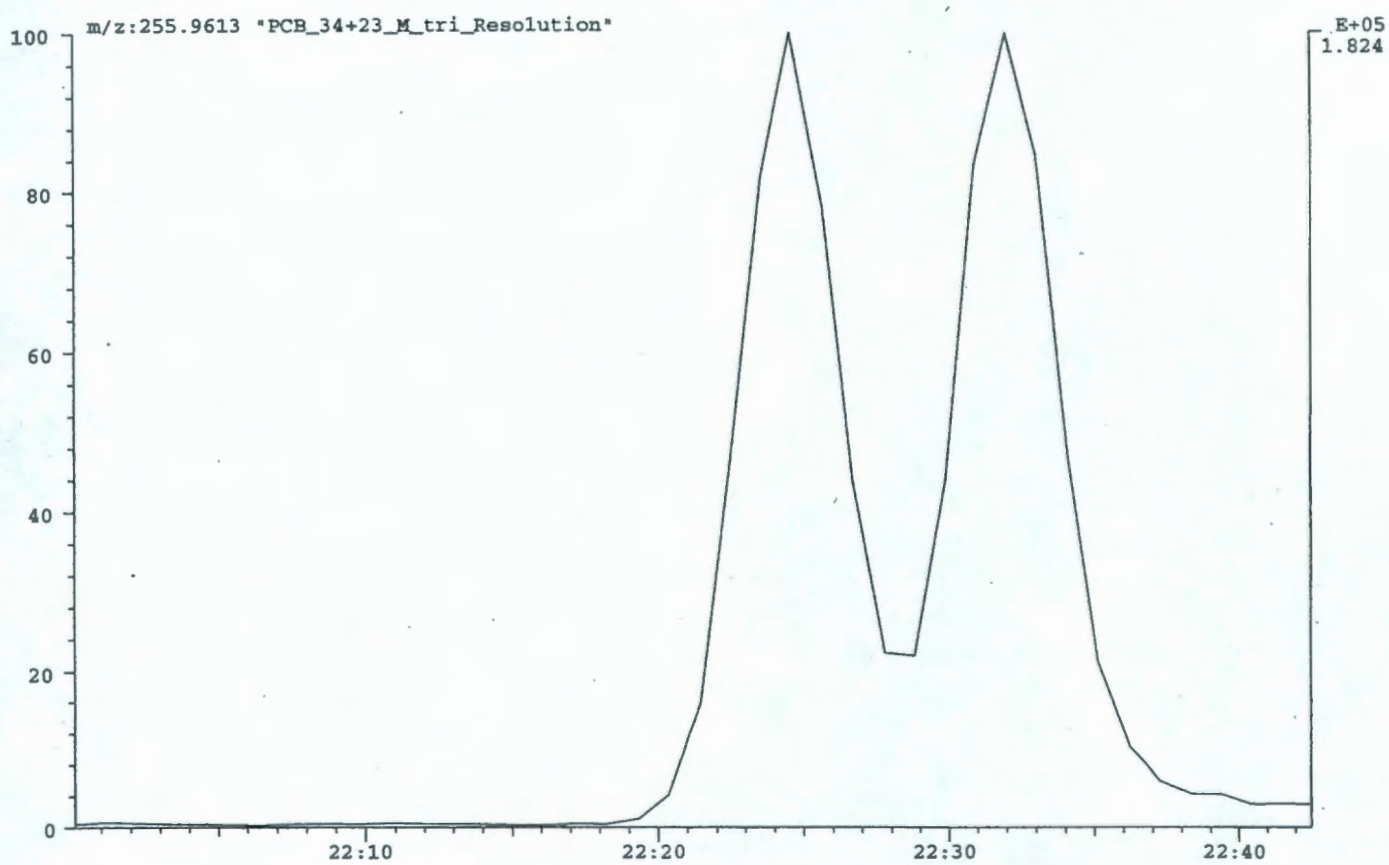

-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 523
39 119 uV
P
3.62 A
-14.7 V
1.00 mA
56.3 V
2459
1318
2627
3677
d
s
l
x
y
270 C
270 C
2459
1486
2599
3723
0.78 mA
-14.7 V
EI POS
electric
U(a) 4774 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 342.979 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VS1 off
VG off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
342.945
342.979
343.01
<>
><
<<
>>
^
v
C
v
UNLK
TUNE:
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 380.974701 REG 1/3: 430.972368 REG 2/3: 430.973888
MASS : 342.97940 380.97488 430.97257
REF MASS : 342.97924 380.97605 430.97285
PEAK WIDTH [ppm]: 70.96283 81.00690 85.97181
Active Register: 1 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Thu Sep 27 20:50:44 2007
mat95
MAT 95


-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 523
39 119 uV
P
3.62 A
-14.7 V
1.00 mA
56.3 V
2459 1318 2627 3677
d s l x y
270 C
271 C
s s s s s
2459 1486 2599 3723
0.90 mA
-14.7 V
EI POS
electric
U(a) 4774 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 342.979 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
342.945
342.979
343.01
<> >< << >> ^ v C V
UNLK
TUNE:
Diagnostic Display
Copy result
to ULIST
100.0
50.0
slow
0.0
R pm 342.97940
E rm 342.97924
G fm 342.94494
I lm 343.01350
S pc 7969172.39
T pl 7969443.33
E pr 7968877.81
R bl 0.00
1 v 64415.00
R pm 380.97488
E rm 380.97605
G fm 380.93792
I lm 381.01412
S pc 7174388.94
T pl 7174693.96
E pr 7174112.79
R bl 0.00
2 v 54471.00
R pm 430.97257
E rm 430.97285
G fm 430.92974
I lm 431.01591
S pc 6342078.71
T pl 6342357.13
E pr 6341811.89
R bl 0.00
3 v 35993.00
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1107806 1.2565553 1.1312362
PC+DELTA 1.1107806 1.2565553 1.1312362
PC+DELTA/RM 0.9999965 0.9999989 1.0000024
REF MASS 1.1107846 1.2565567 1.1312335
Active Register: 1 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Thu Sep 27 20:50:56 2007
mat95
MAT 95

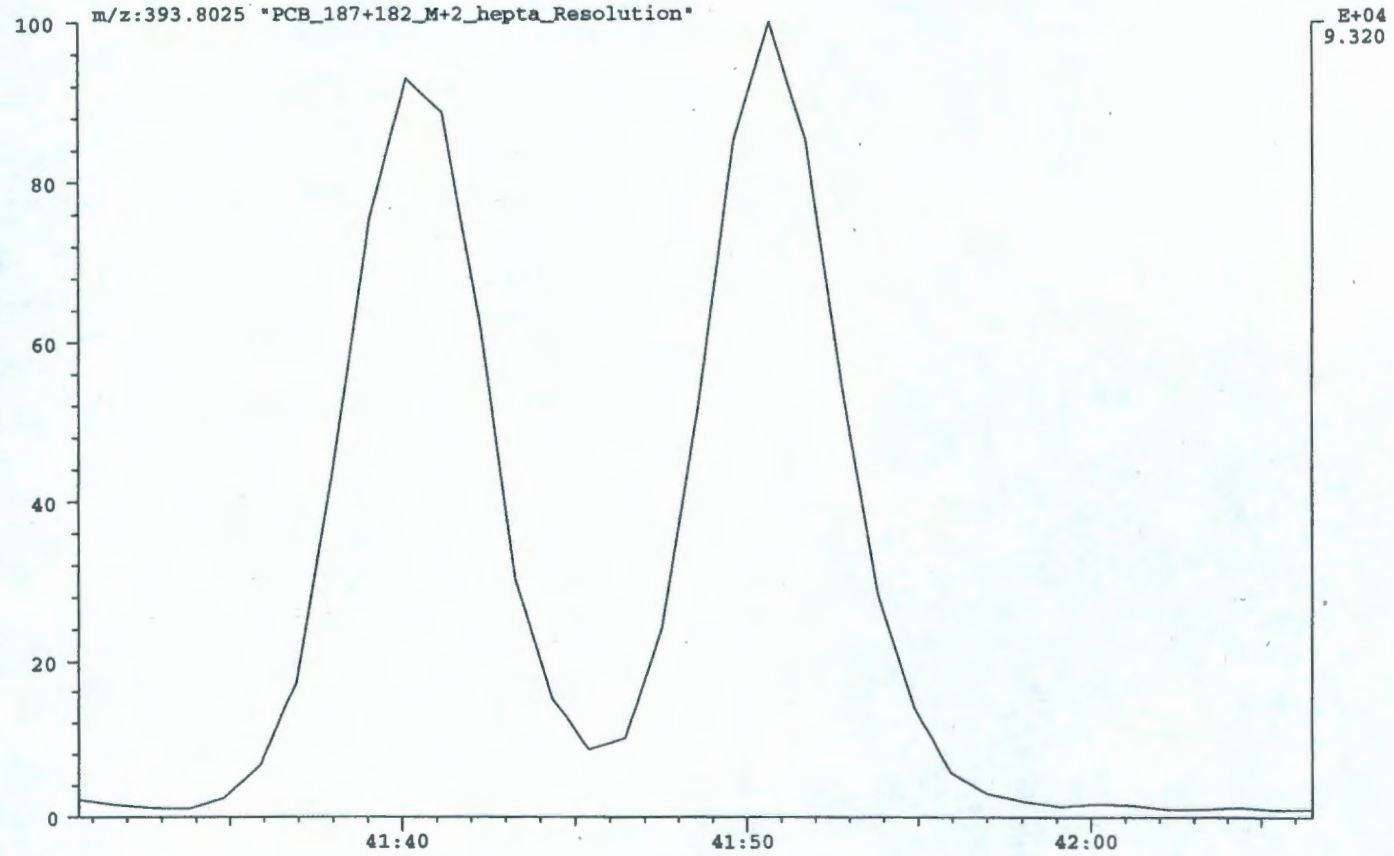

-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 523
31 370 uV
P
3.60 A
-14.7 V
1.00 mA
56.3 V
2459
1318
2627
3677
d
s
l
x
y
270 C
271 C
2459
1486
2599
3723
0.82 mA
-14.7 V
EI POS
electric
U(a) 4772 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 404.976 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tuna2
SAVE
404.936
404.976
405.01
LOCK
UNLK
TUNE: _
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 442.971844 REG 1/3: 530.965452 REG 2/3: 530.966659
MASS : 404.97530 442.97103 530.96447
REF MASS : 404.97604 442.97285 530.96646
PEAK WIDTH [ppm]: 70.96266 74.99346 63.01832
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
LIMIT
CENTER
SPREAD
ERASE
RESUME
PAGE
PEAK:
Thu Sep 27 20:51:54 2007
mat95
MAT 95


-6.6 V
SCAN
AUTOTUNE
TUNE
R
= 10 523
31 370 uV
3.62 A
-14.7 V
1.00 mA
56.3 V
2459
1318
2627
3677
270 C
270 C
2459
1486
2599
3723
0.82 mA
-14.7 V
EI POS
electric
U(a) 4774 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 404.976 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
TUNE:
404.936
404.976
405.01
LOCK
UNLK
Diagnostic Display
Copy result to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.0938223 1.3111034 1.1986438
PC+DELTA 1.0938223 1.3111034 1.1986438
PC+DELTA/RM 0.9999977 0.9999981 1.0000004
REF MASS 1.0938248 1.3111059 1.1986434
REG 1 pm 404.97530 rm 404.97604 fm 404.93555 lm 405.01651 pc 7969190.85 pl 7969475.19 pr 7968909.67 bl 0.00 v 25713.00
REG 2 pm 442.97103 rm 442.97285 fm 442.92856 lm 443.01715 pc 7285635.50 pl 7285907.83 pr 7285361.45 bl 0.00 v 34679.00
REG 3 pm 530.96447 rm 530.96646 fm 530.91332 lm 531.01954 pc 6078232.36 pl 6078413.68 pr 6078030.64 bl 0.00 v 16185.00
Active Register: 3
0.05
1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK:
Thu Sep 27 20:52:12 2007
mat95
MAT 95

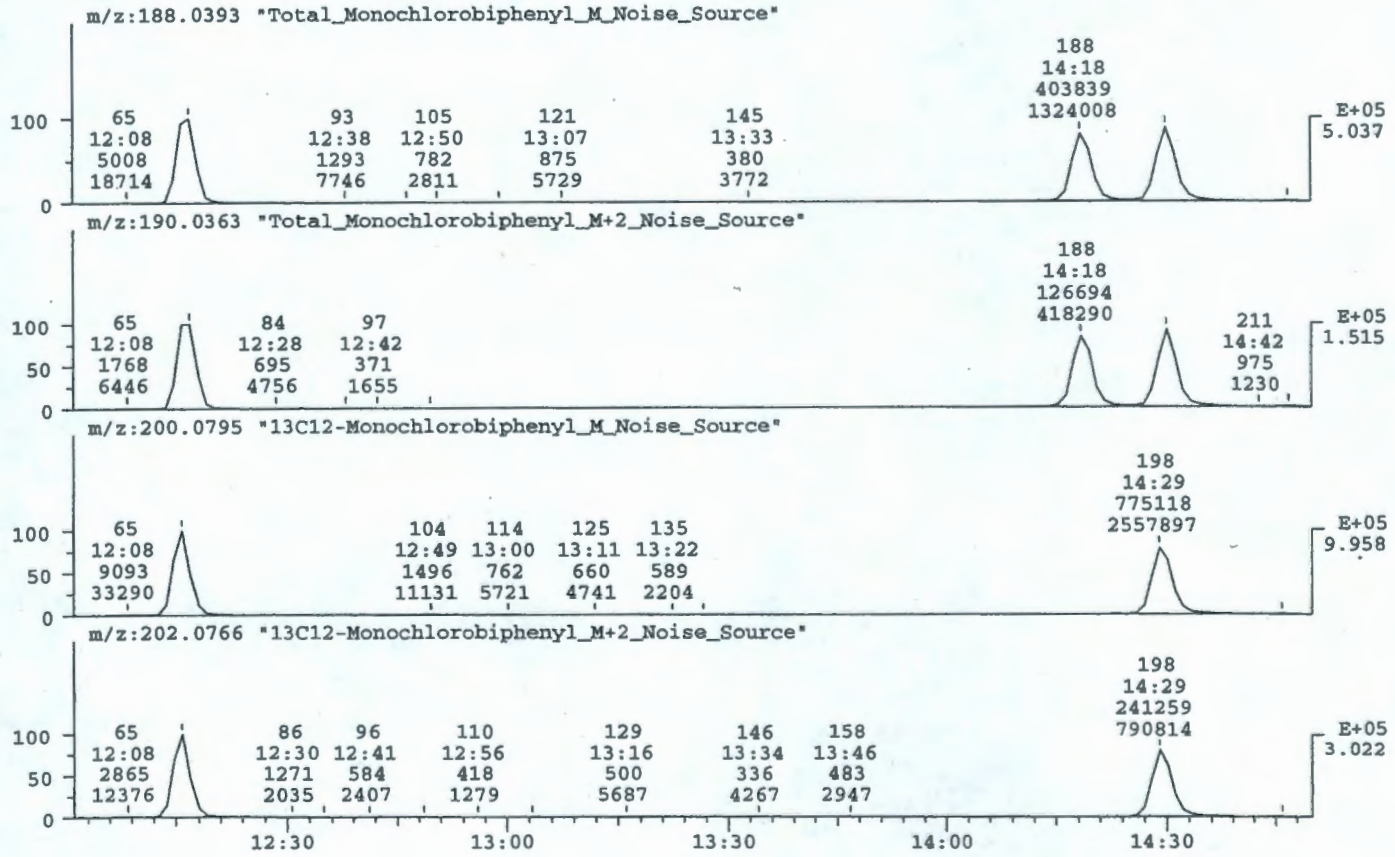
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  22:23.5      643
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   625 > 661            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  0, 3.0
Disp:  Height  Area
```



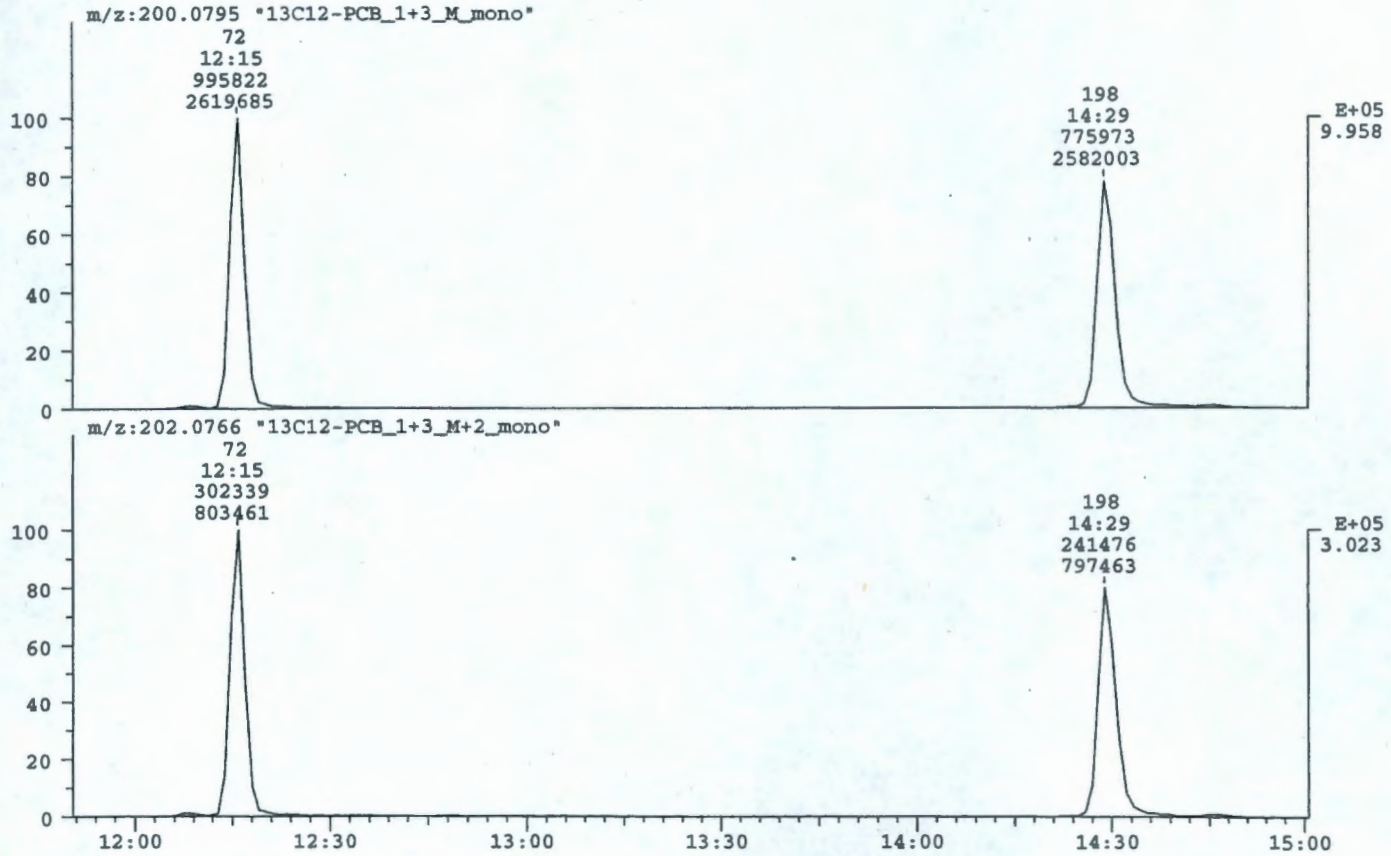
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  41:53       1747
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1725 > 1759          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  0, 3.0
Disp:  Height  Area
```



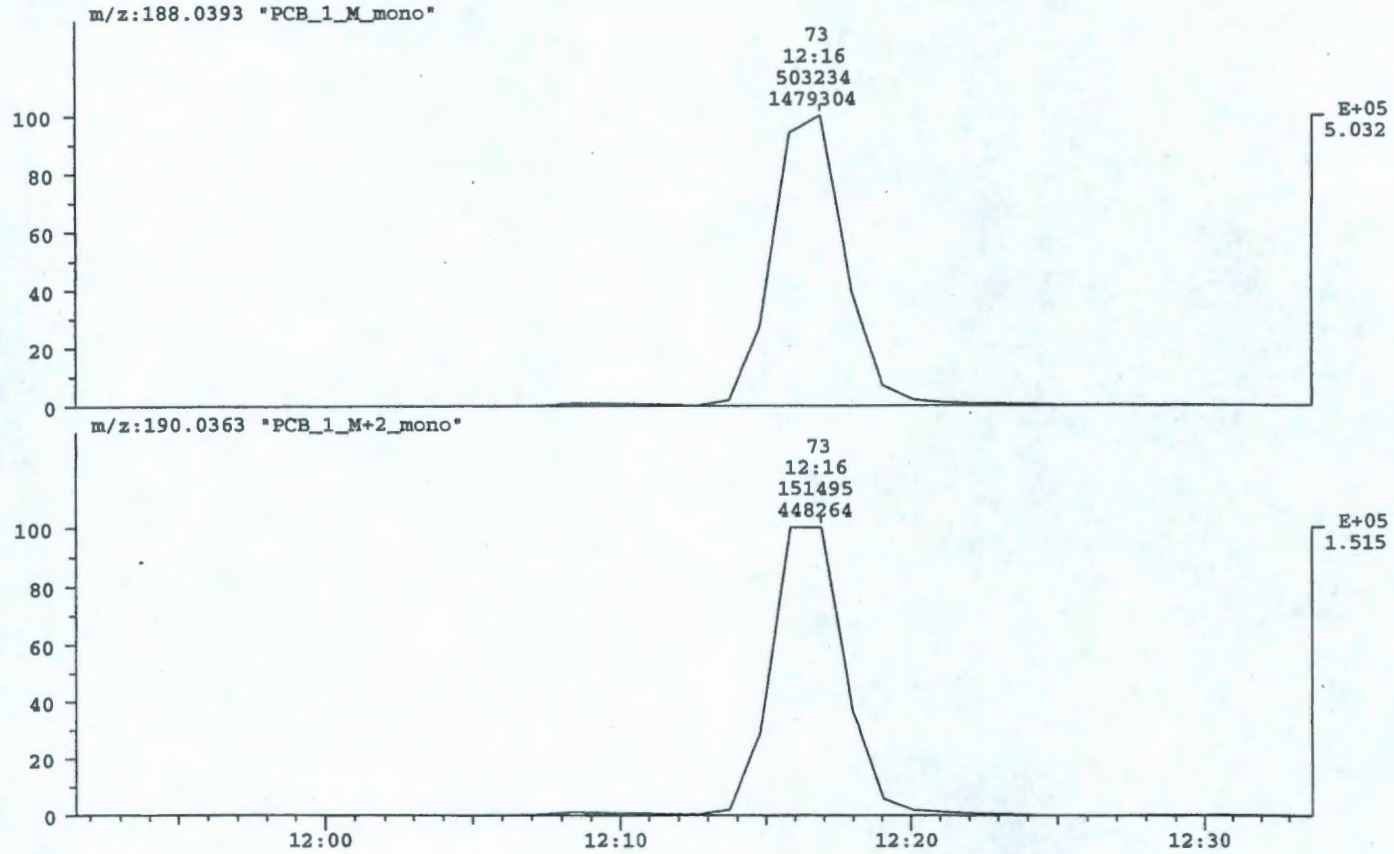
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  13:25.6      138
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   58 > 218              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



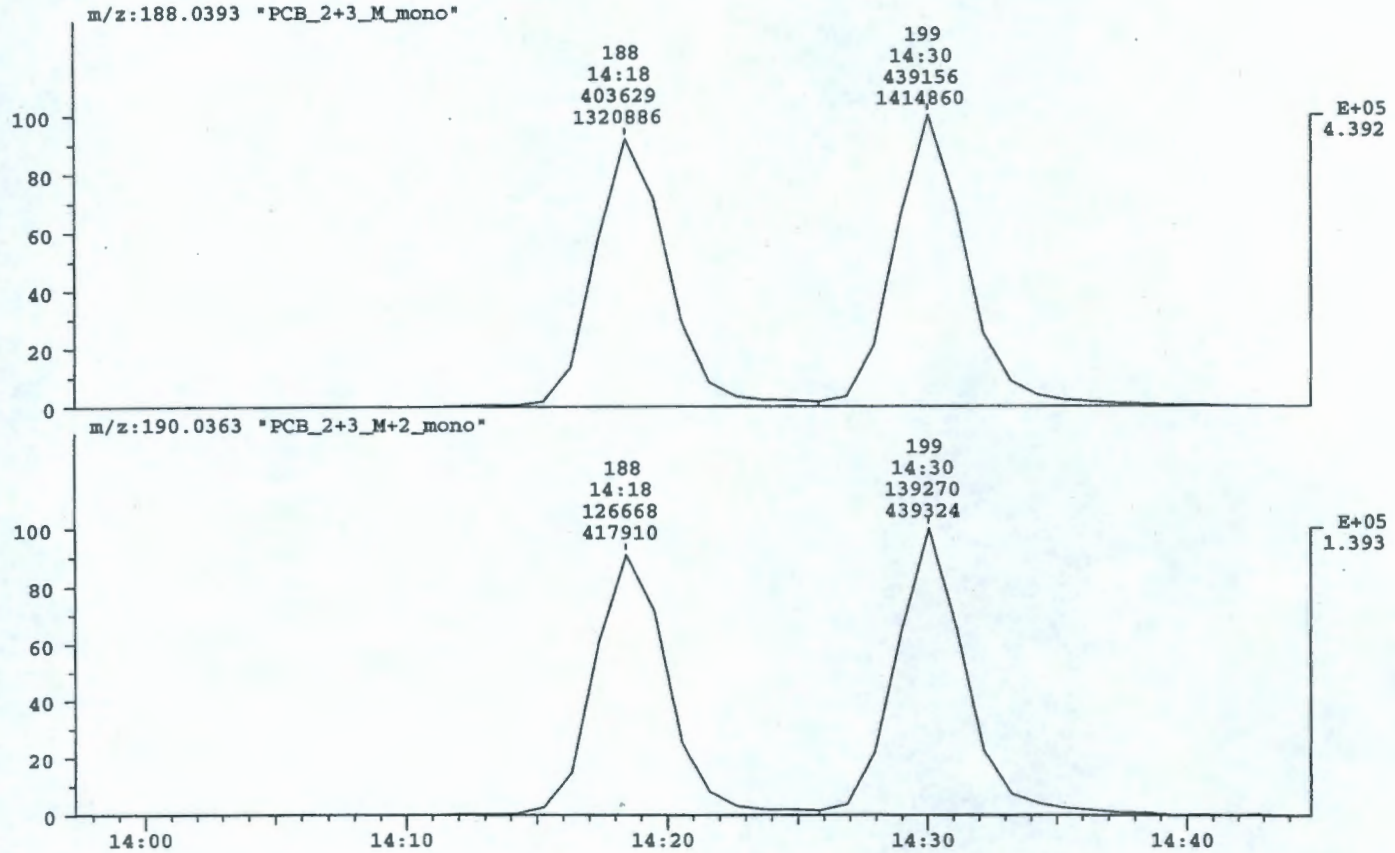
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  13:25.6      138
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   48 > 228             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



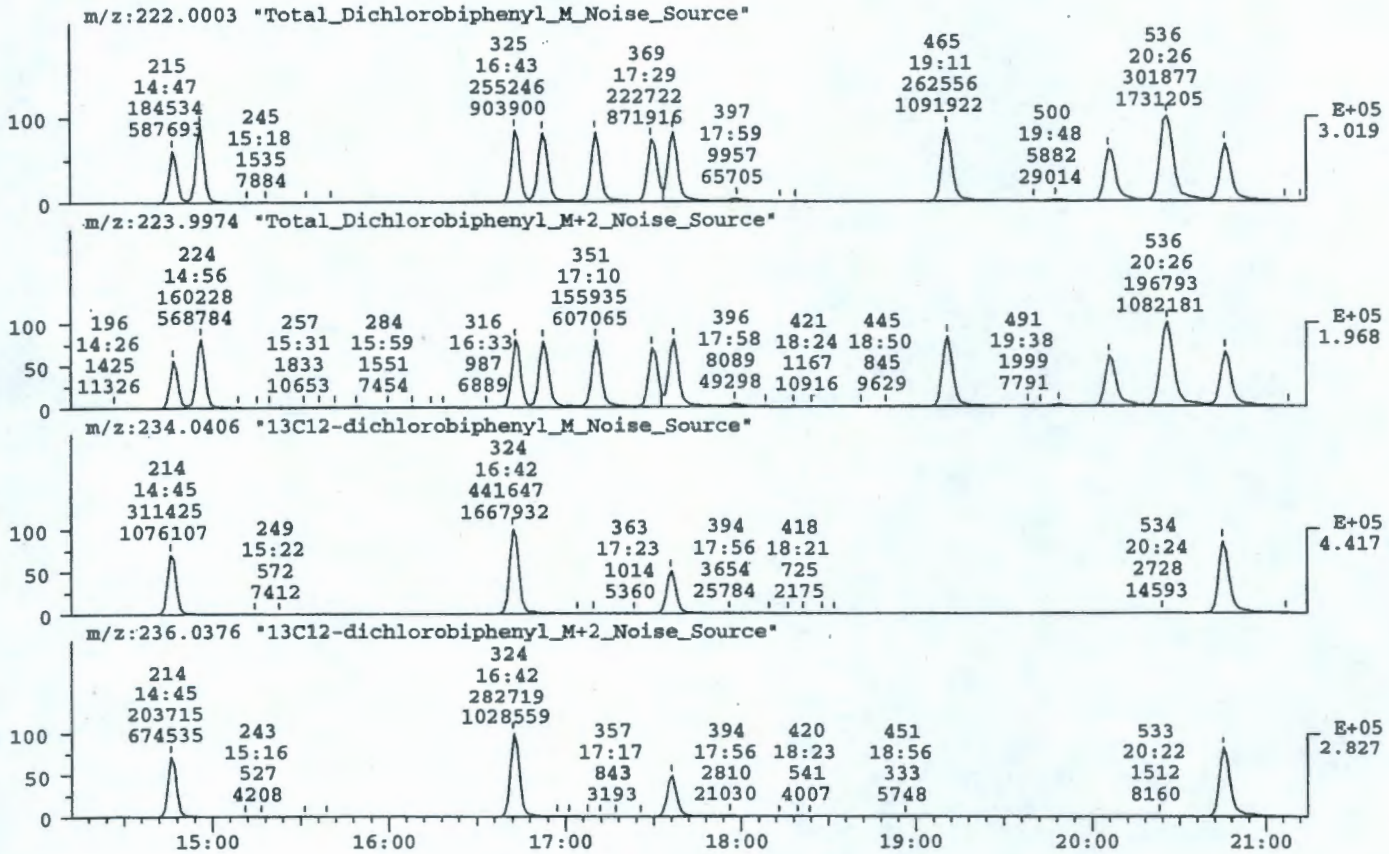
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  12:12.7      69
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   49 > 89              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



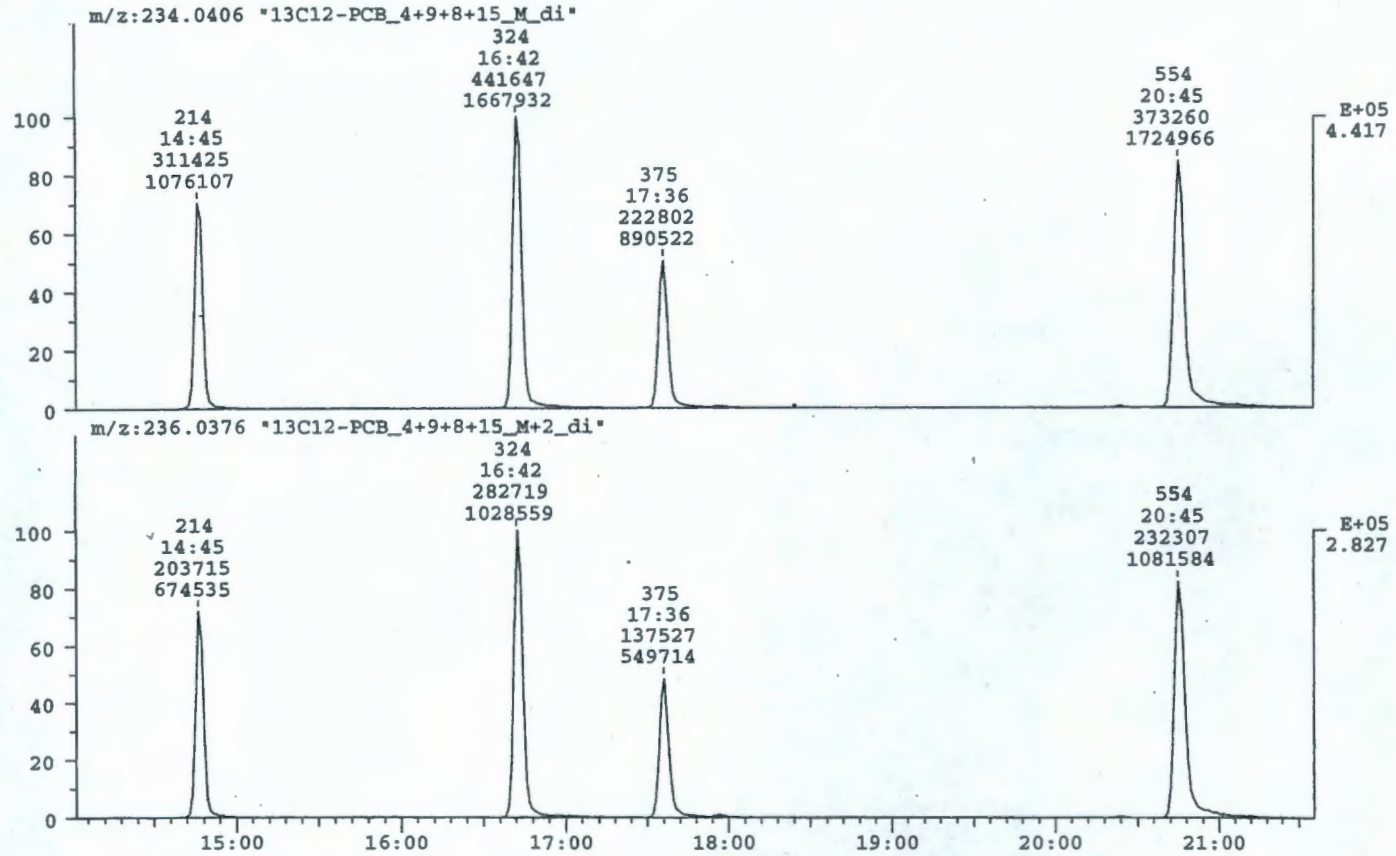
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  14:23.7     193
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   168 > 213            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



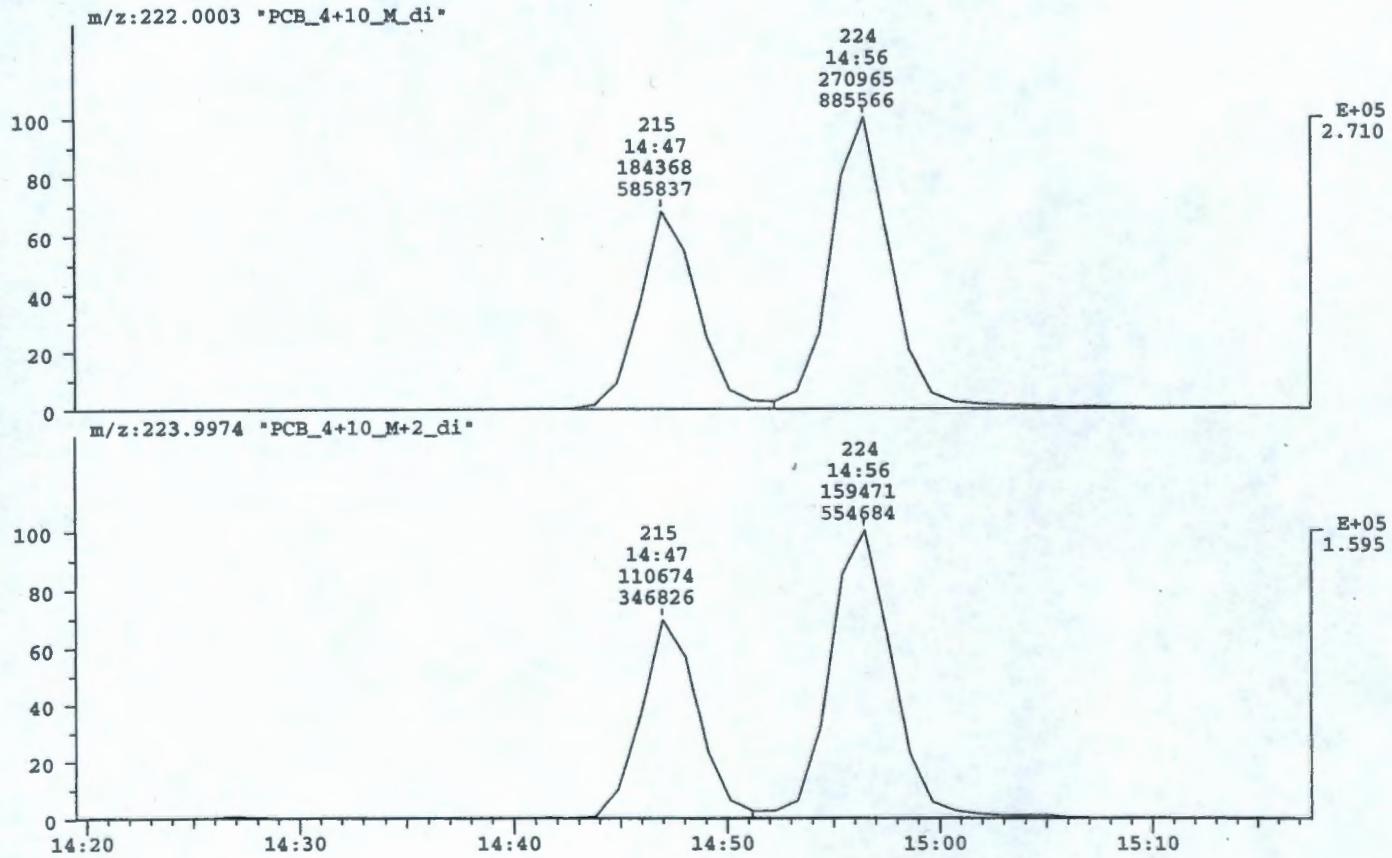
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  17:43.4      382
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   182 > 582             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



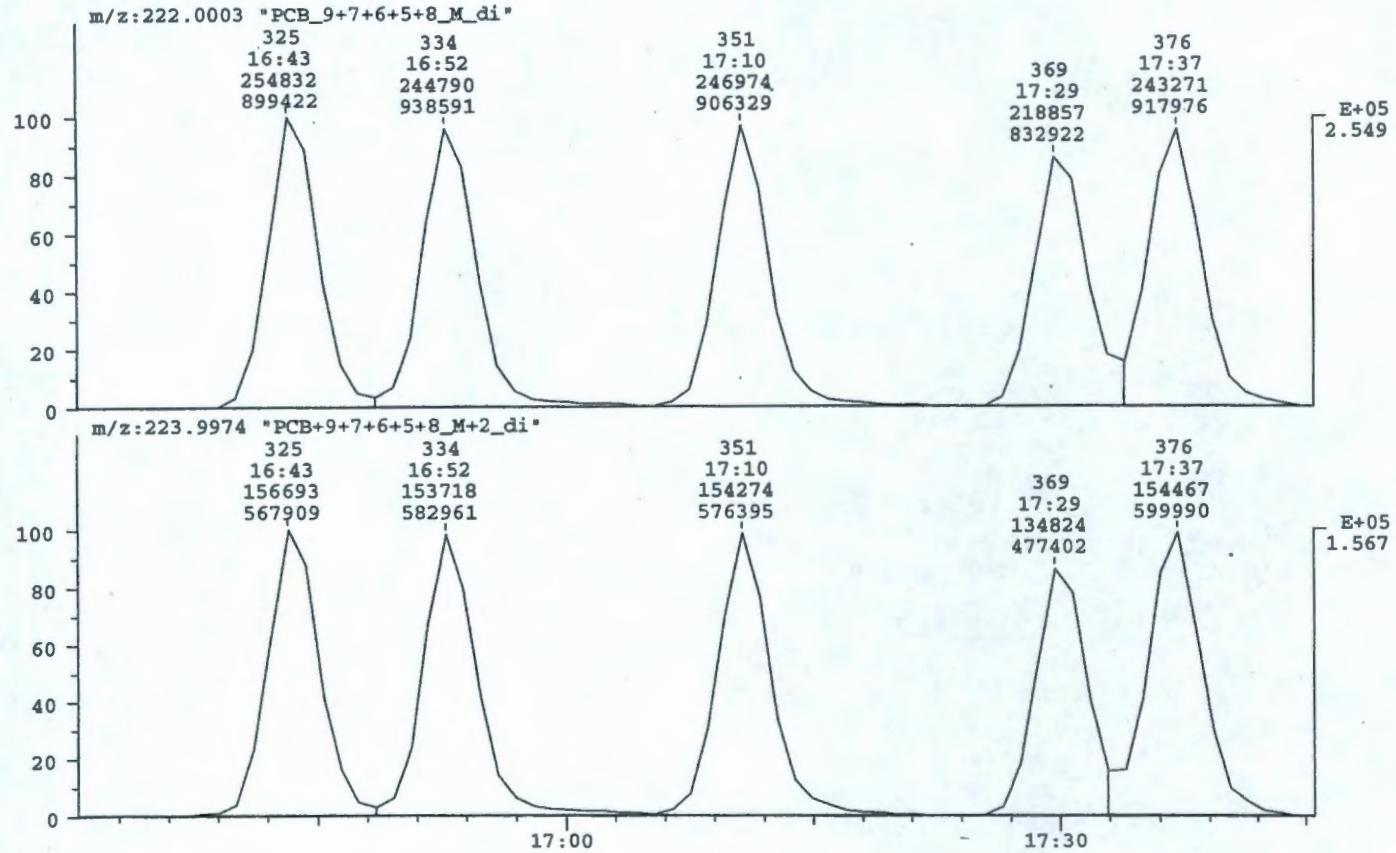
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  17:43.4      382
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   172 > 602            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



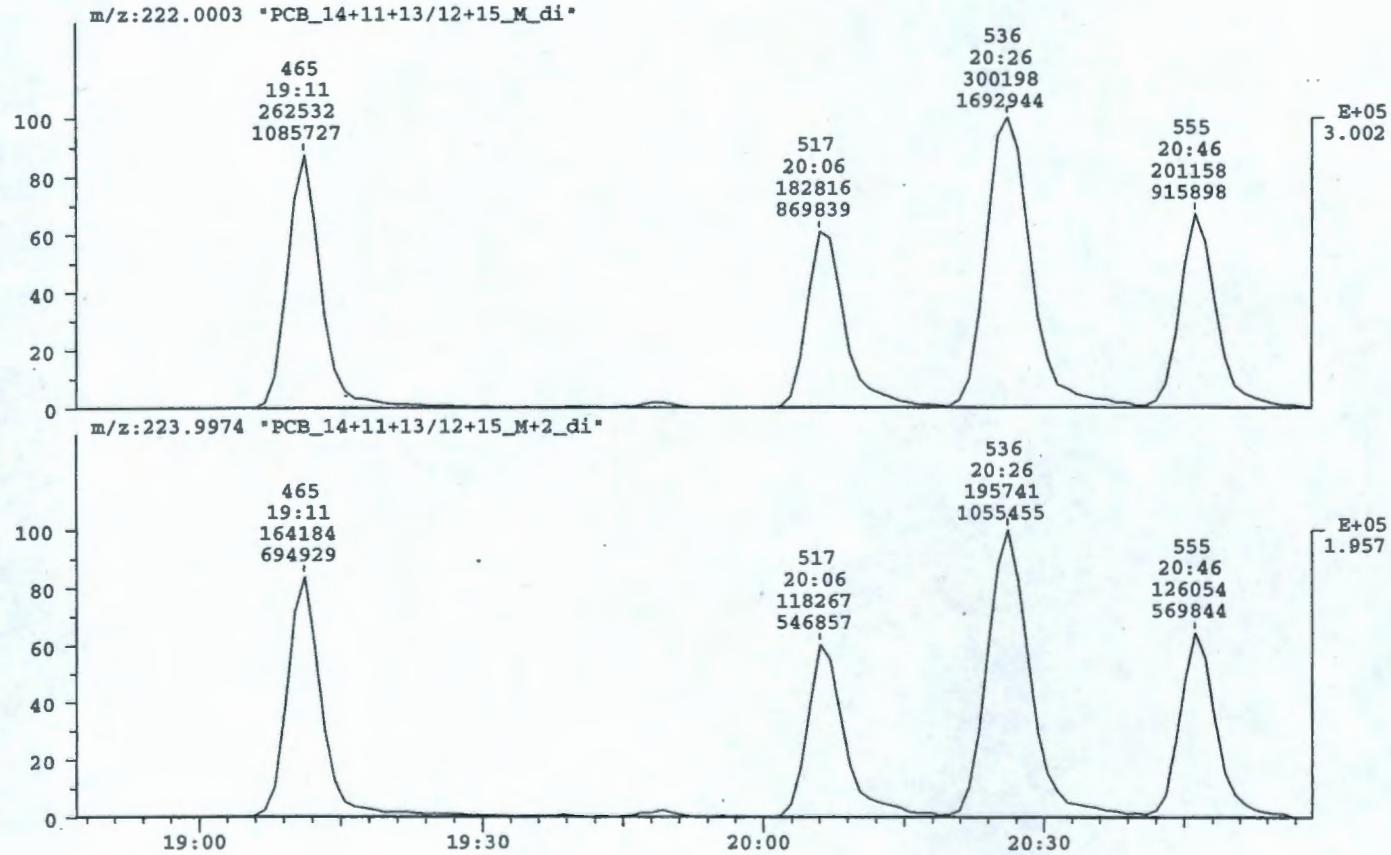
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  14:51.2     219
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   189 > 244             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



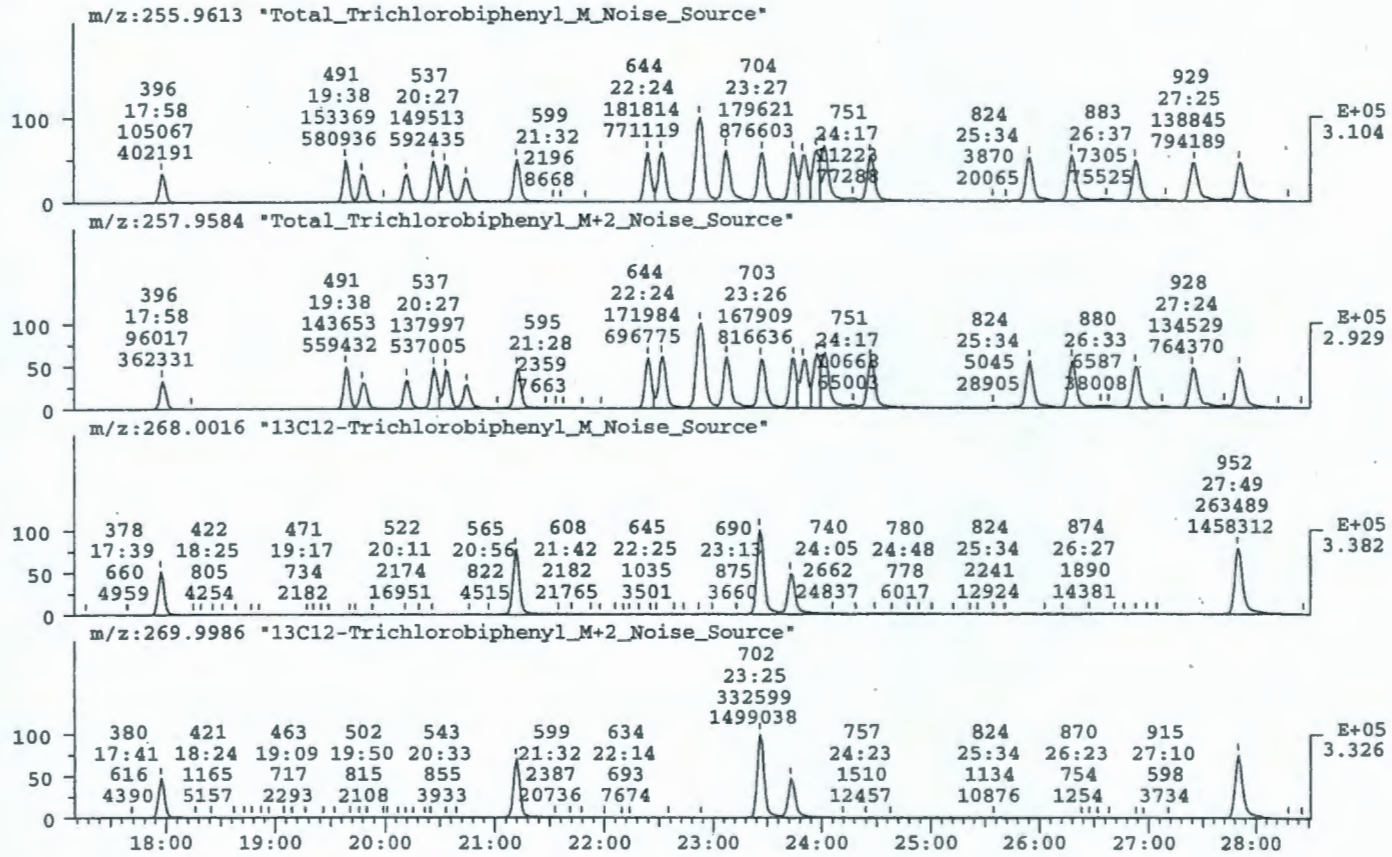
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  17:09.6      350
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   313 > 384            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



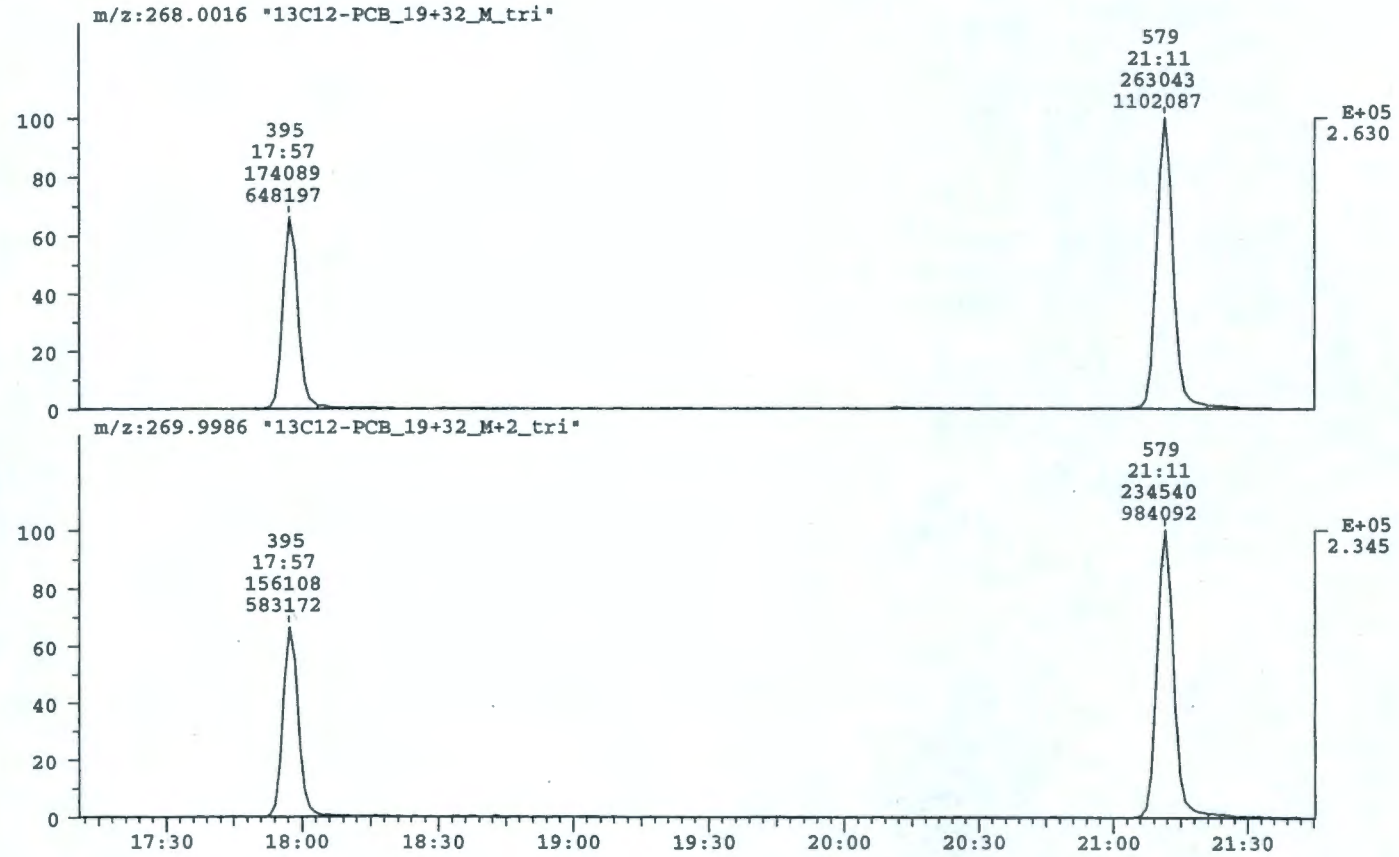
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  19:55.5     507
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   442 > 567             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```



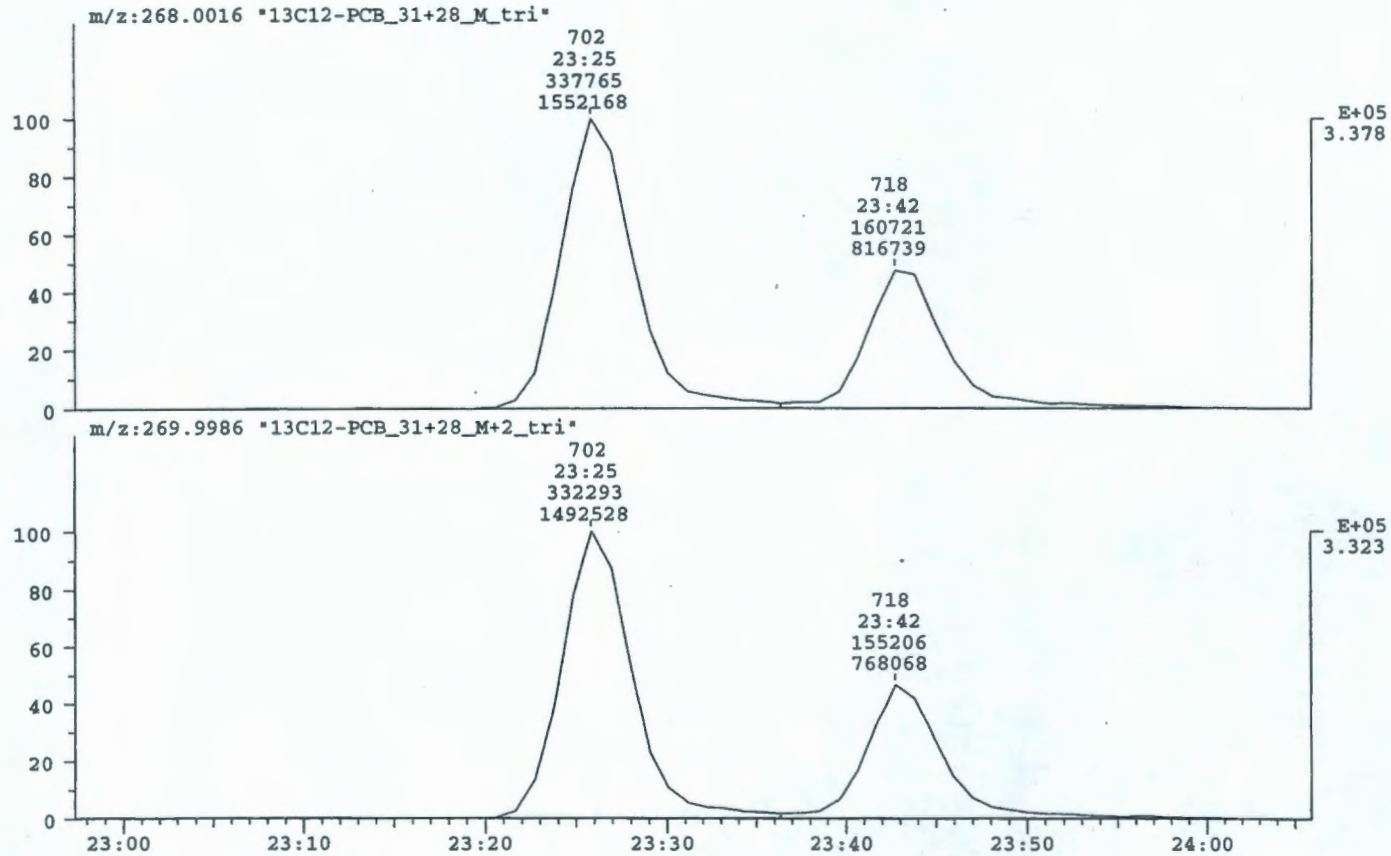
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  22:53.1     671
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   351 > 991            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



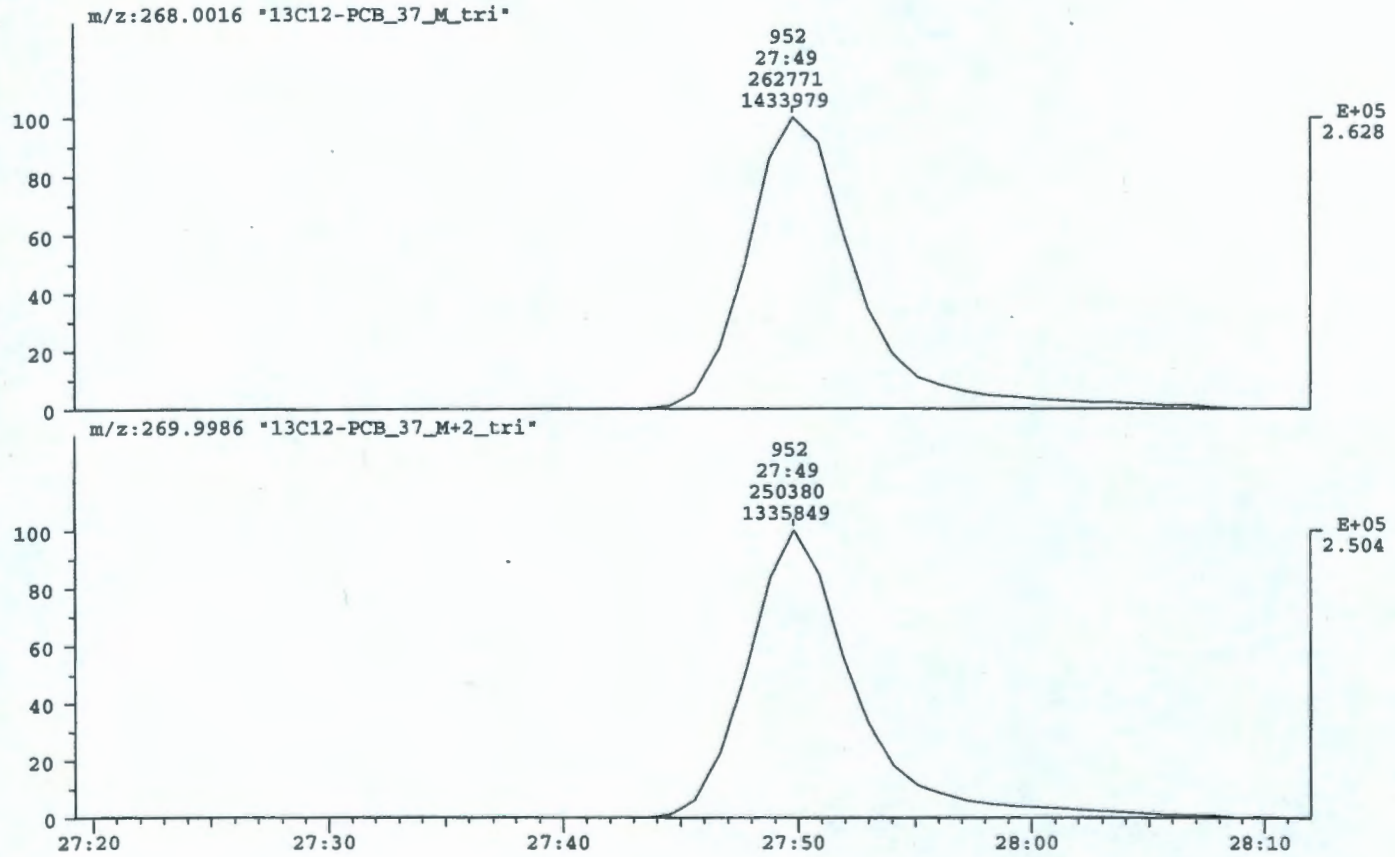
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  19:17.5     471
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG           Client:  TA Knoxville                  Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   351 > 611              Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 1                 Label :  -3, 3.0
Disp:  Height  Area
```



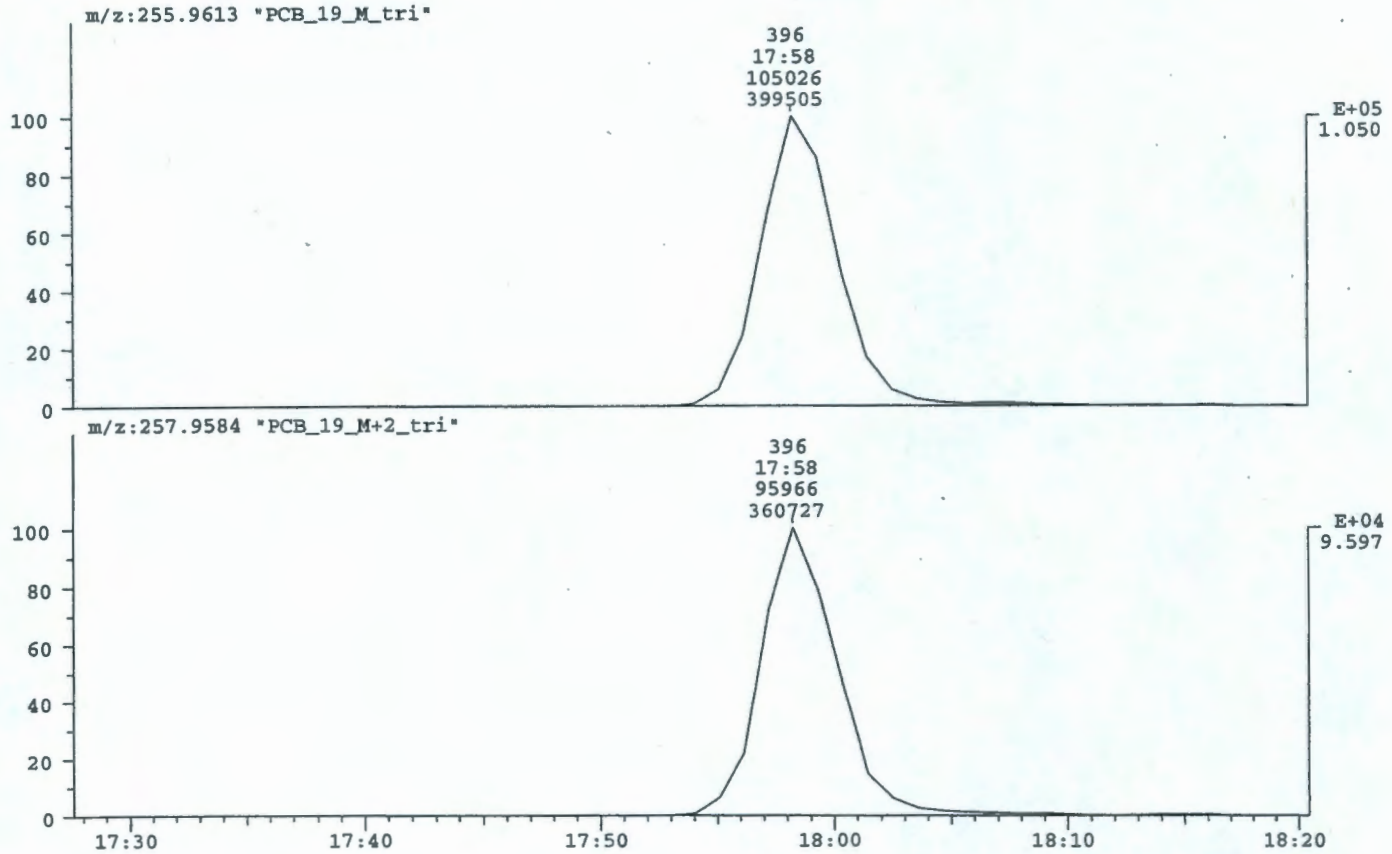
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  23:23.7     700
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   675 > 740             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



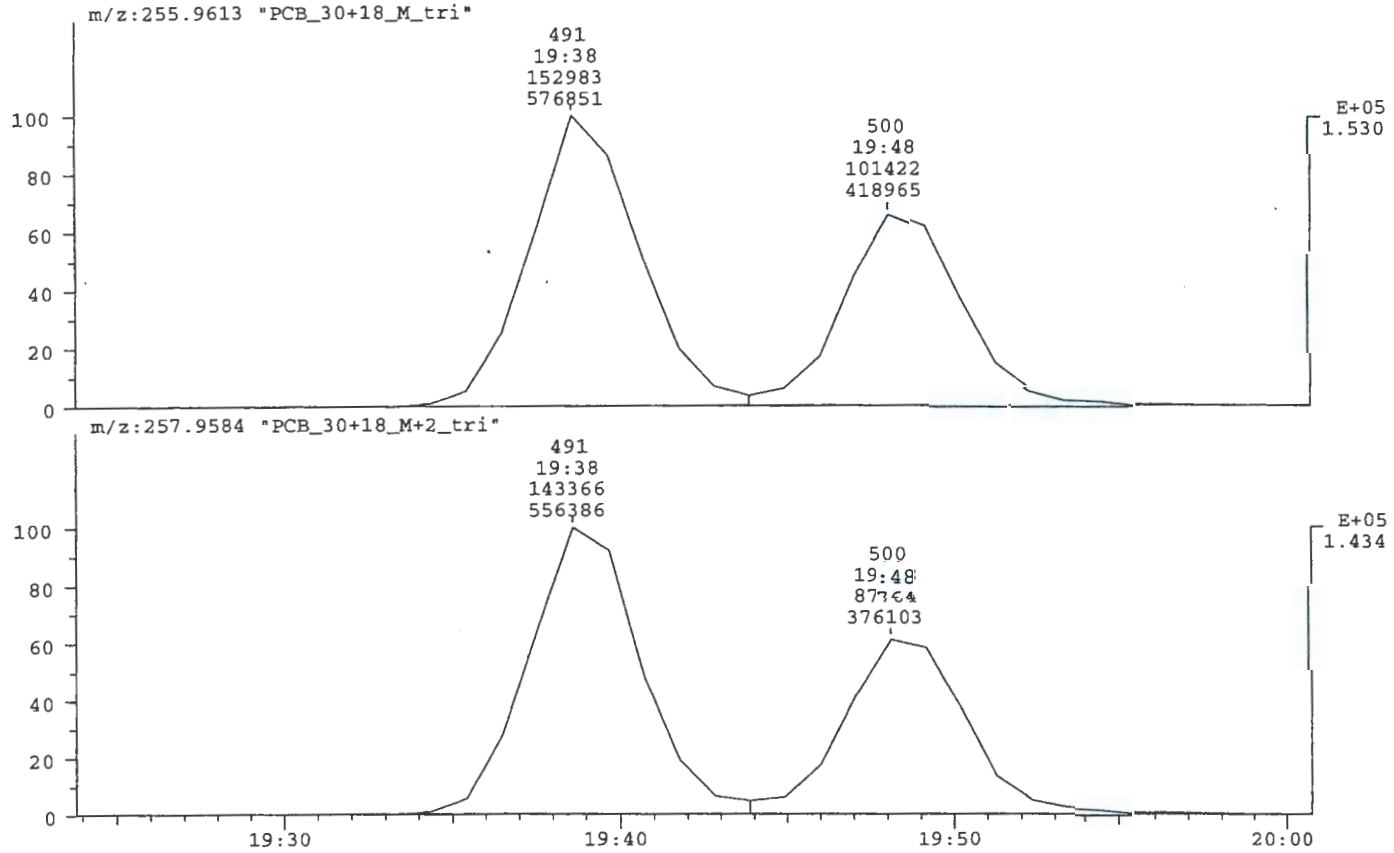
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  27:45.6      948
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   923 > 973             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



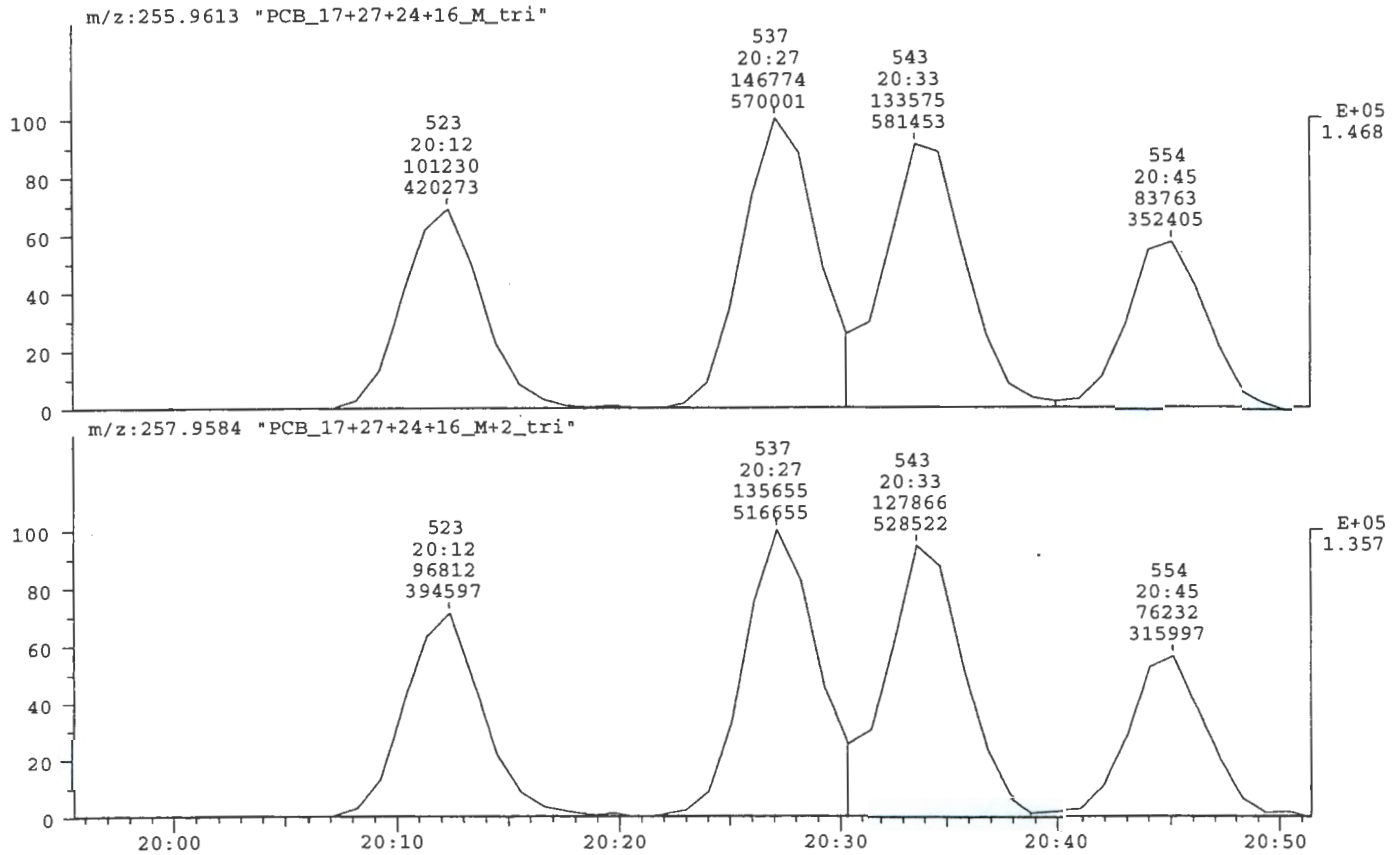
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  17:54.0     392
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   367 > 417            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



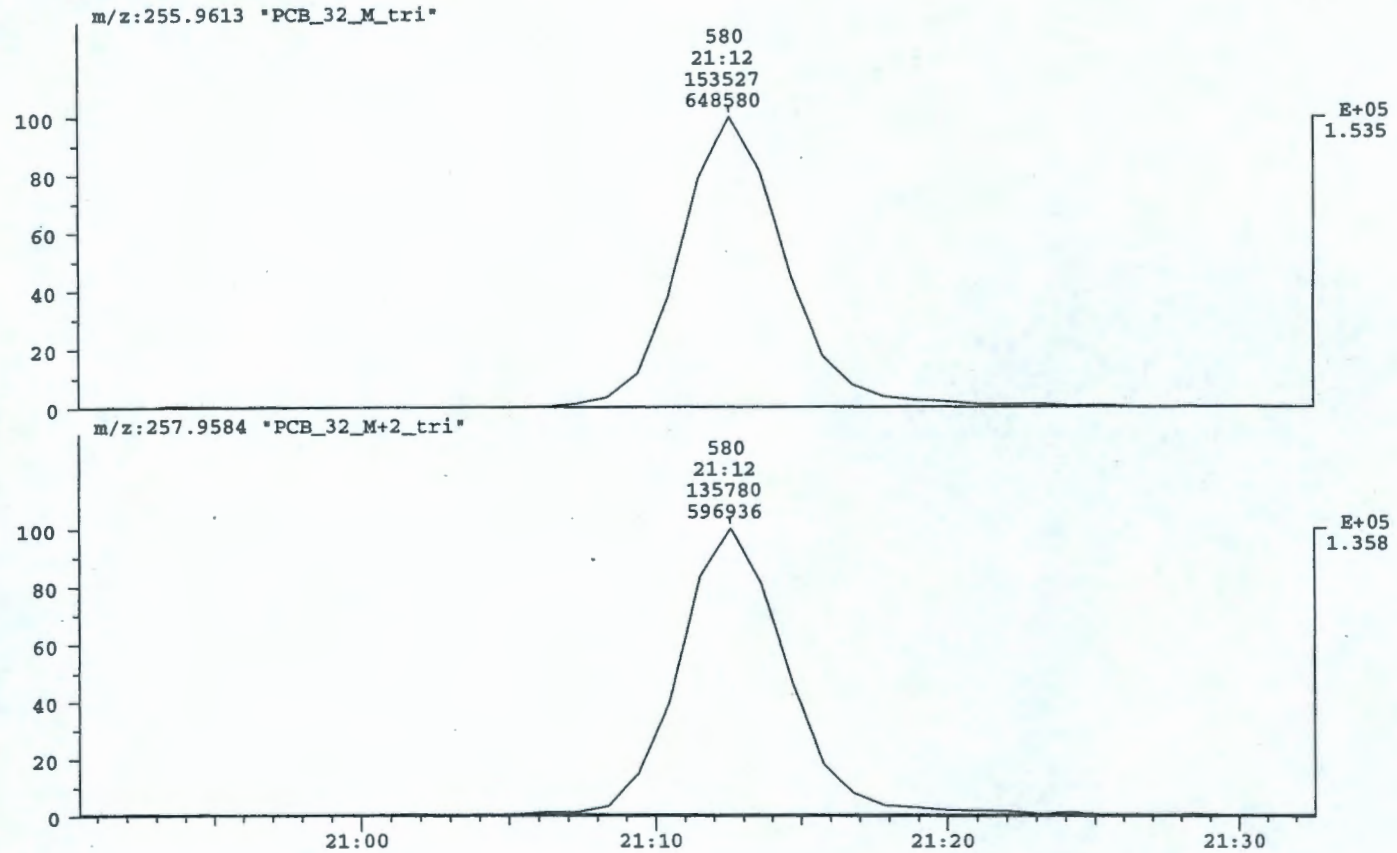
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  19:44.9      497
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   477 > 512             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



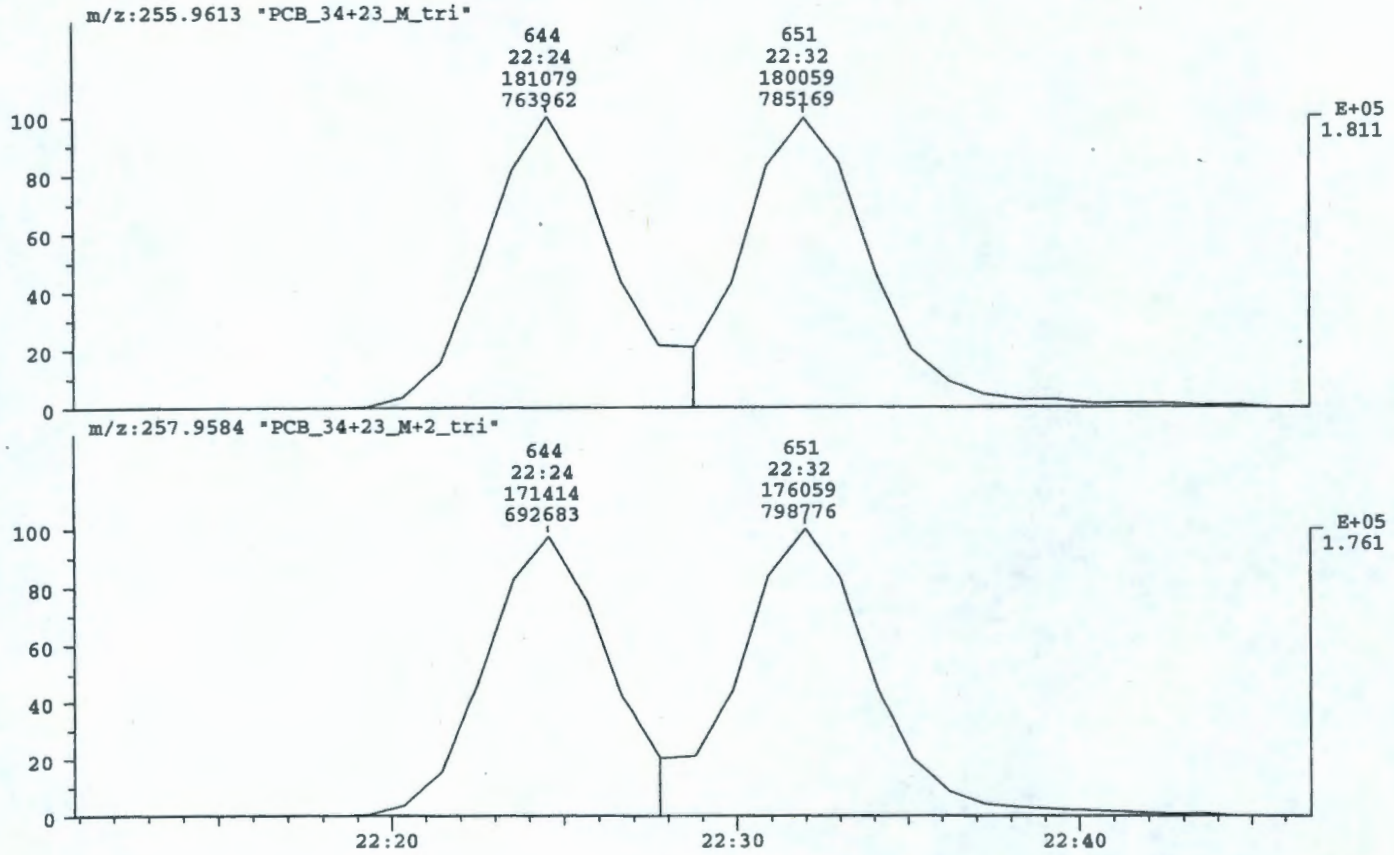
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  20:27.2      537
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC      Vial   1
Peak:  100.00  ppm      Label wndw:   507 > 560             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



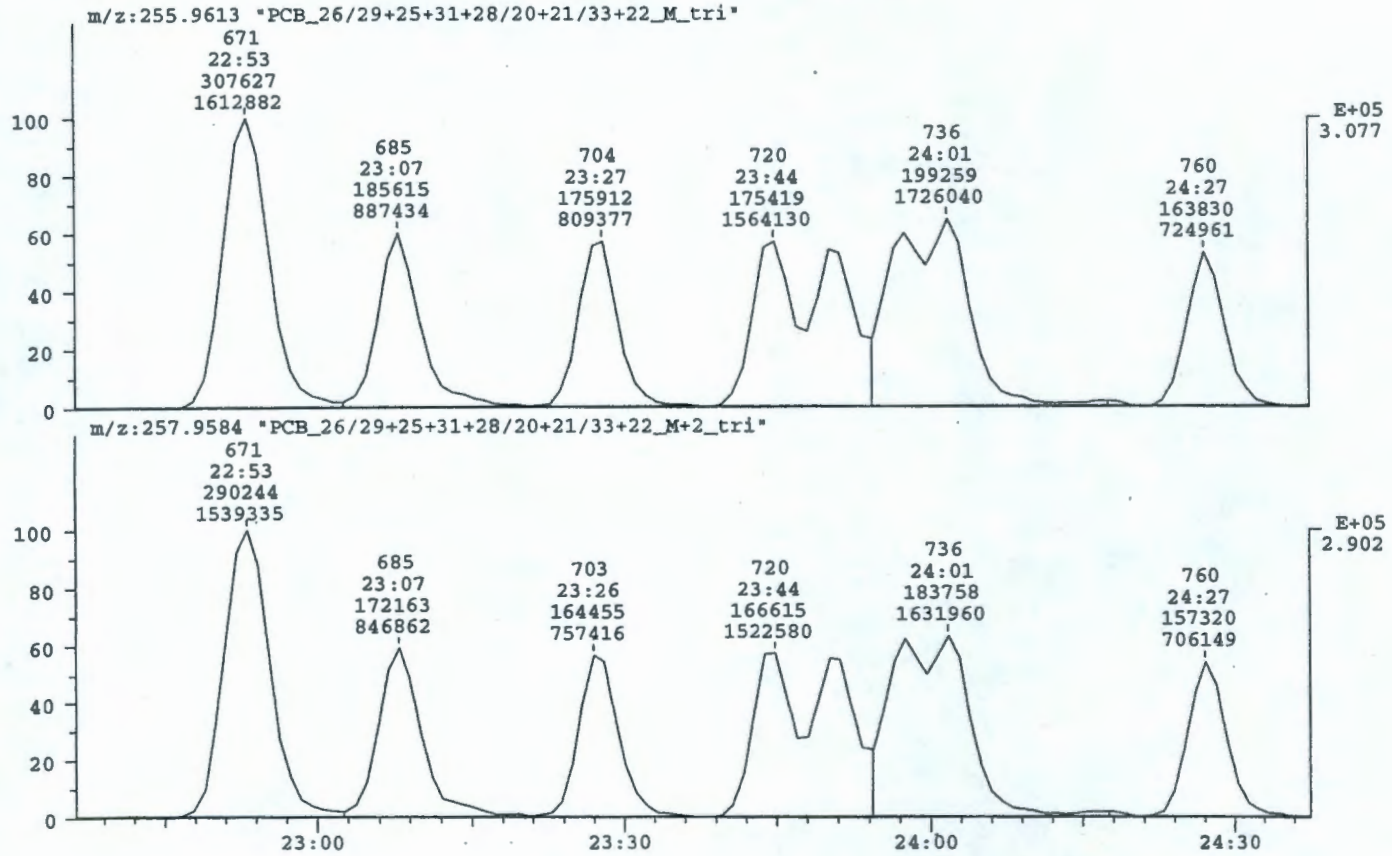
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  21:11.5      579
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   559 > 599            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



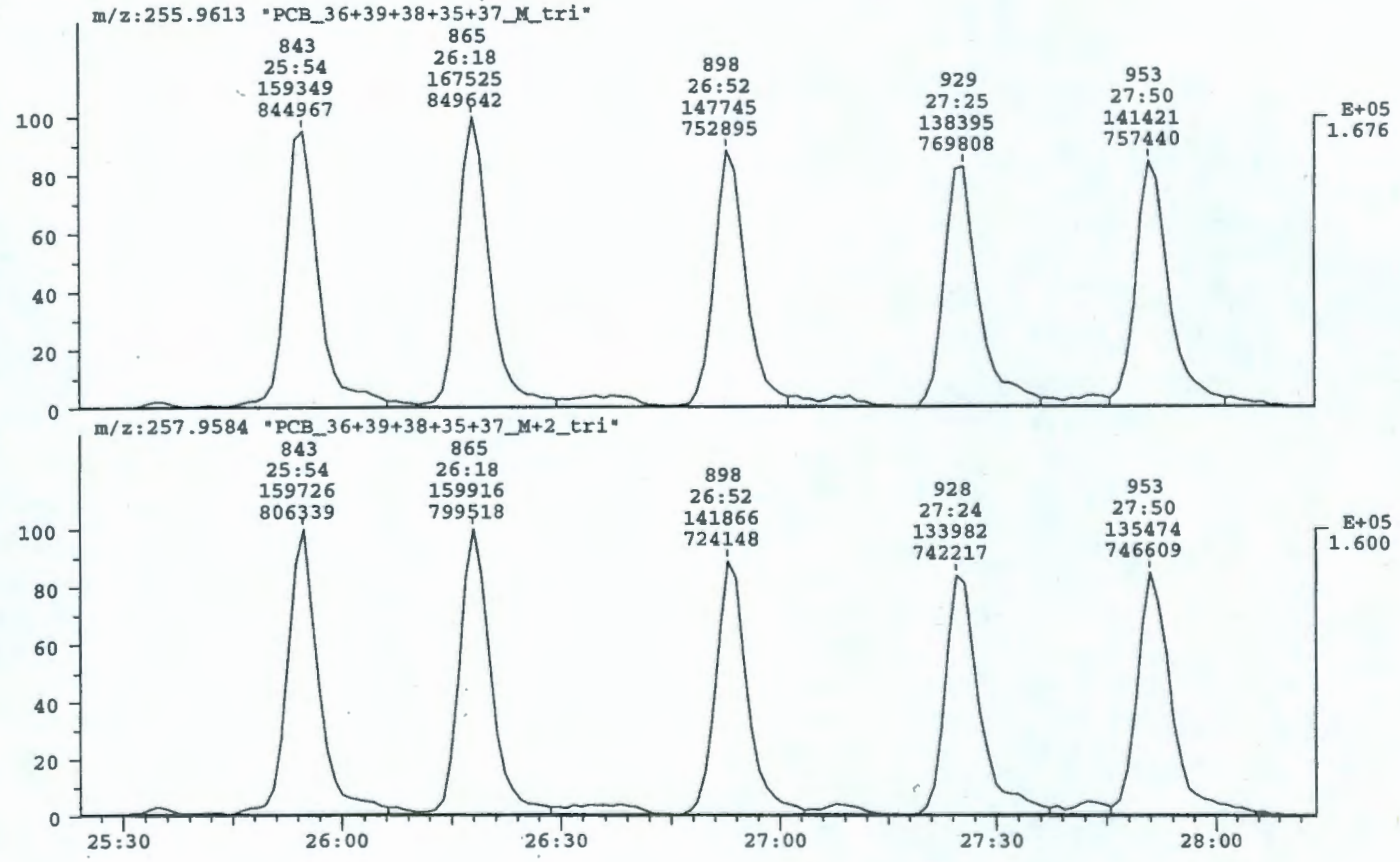
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  22:23.5      643
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   631 > 665            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



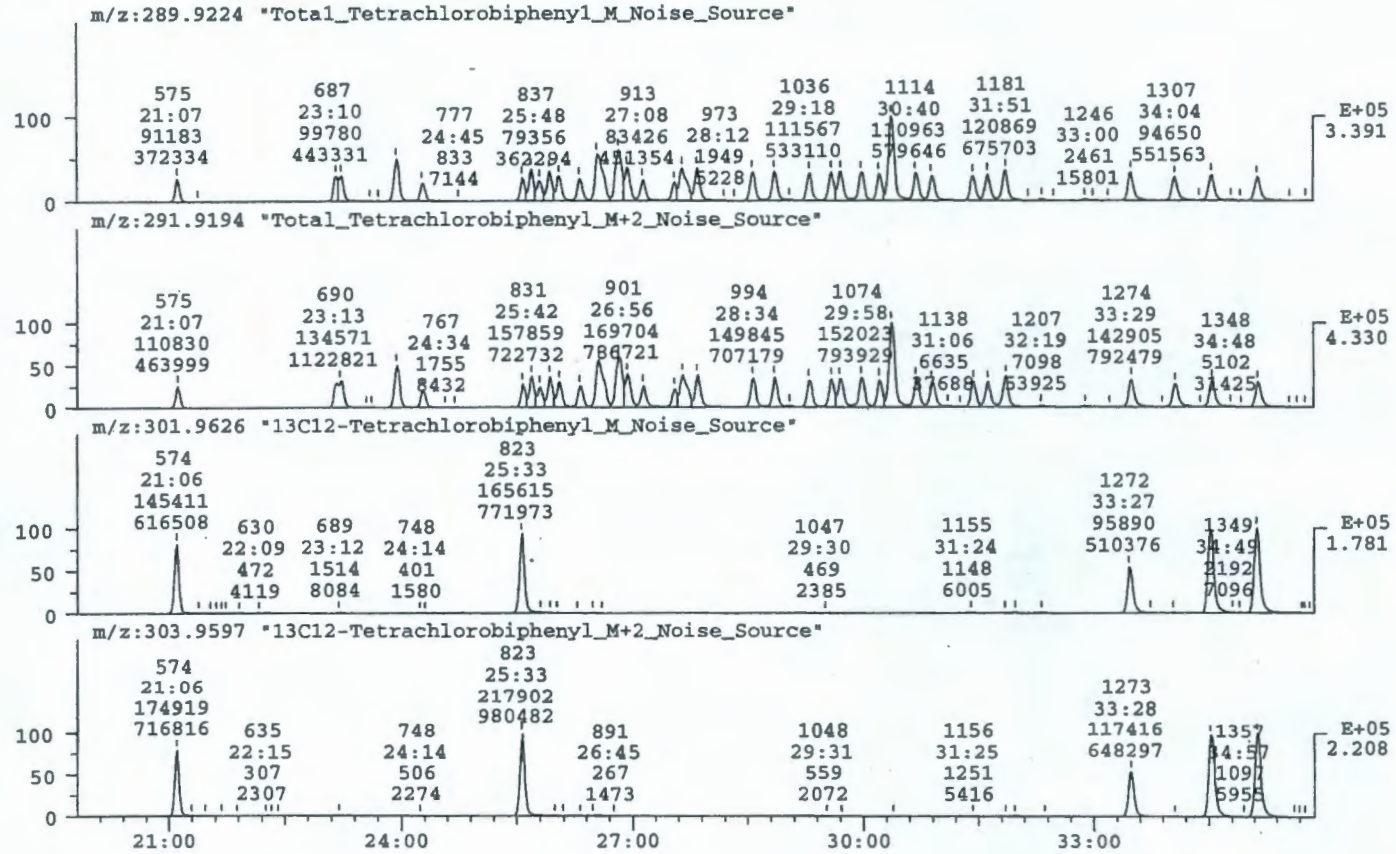
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  23:55.4      730
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   655 > 770            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 8               Label :  -3, 3.0
Disp:  Height  Area
```



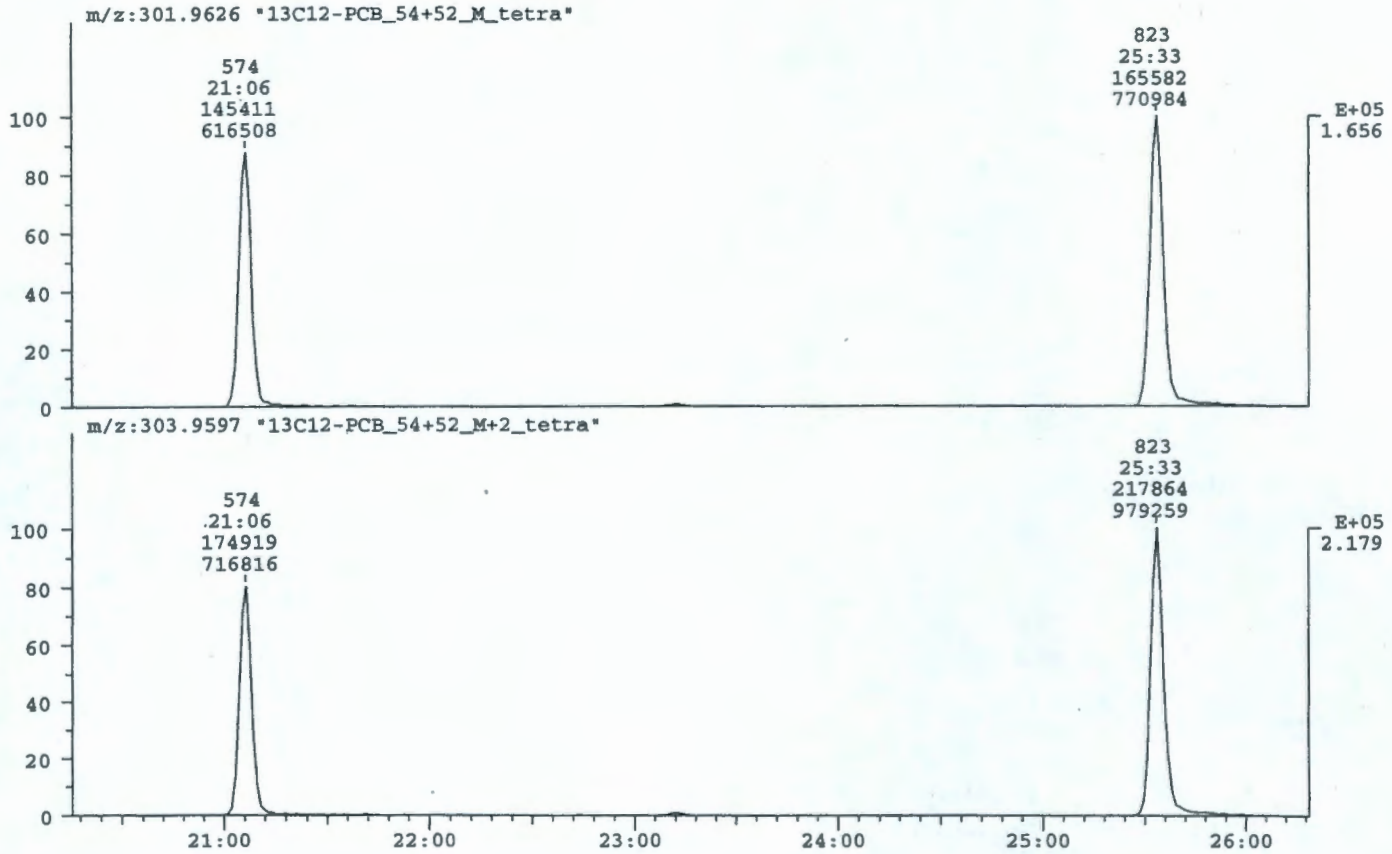
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  26:53.8      899
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   814 > 975            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1               Label :  -3, 3.0
Disp:  Height  Area
```



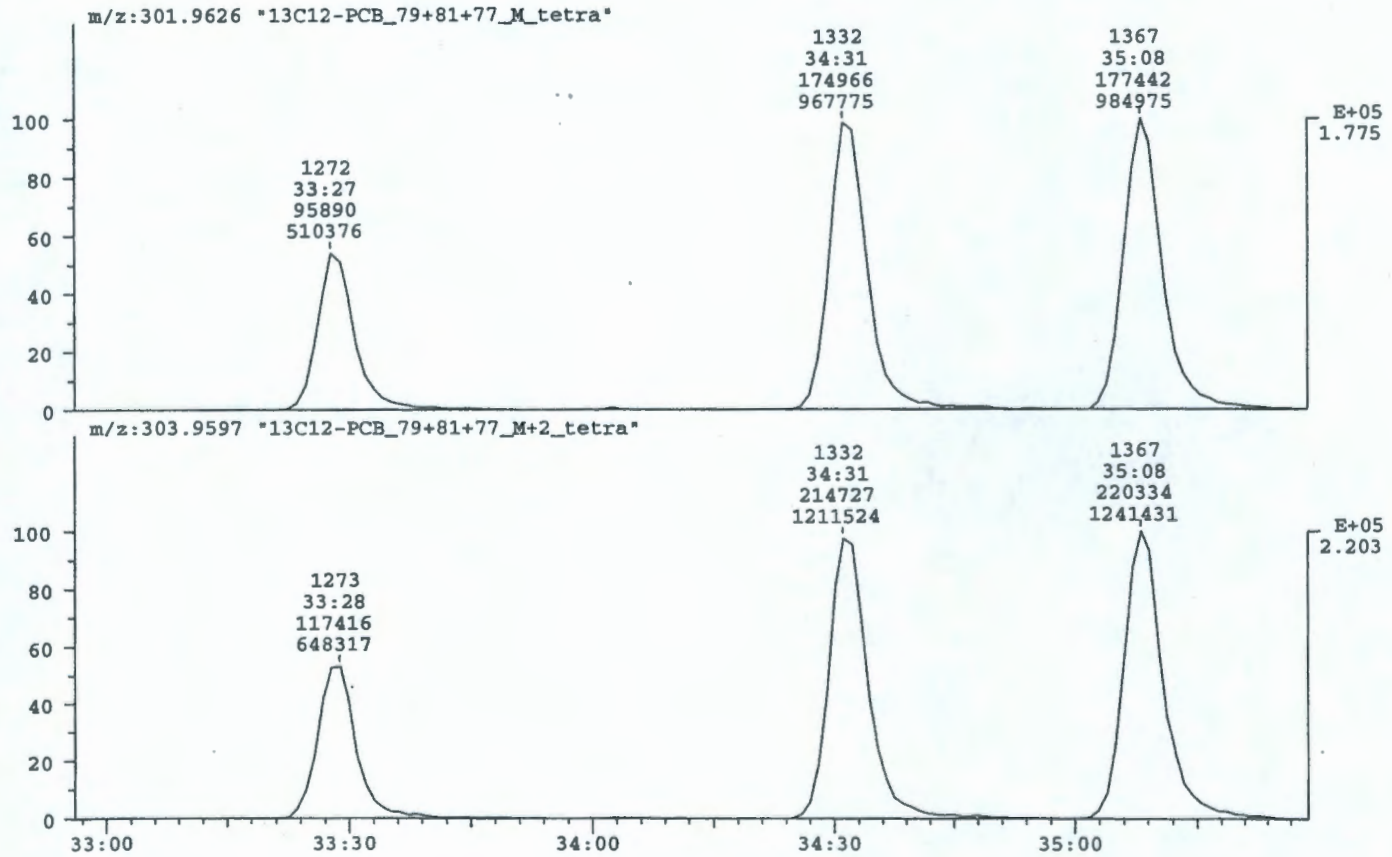
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  27:50.9      953
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   500 > 1411           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



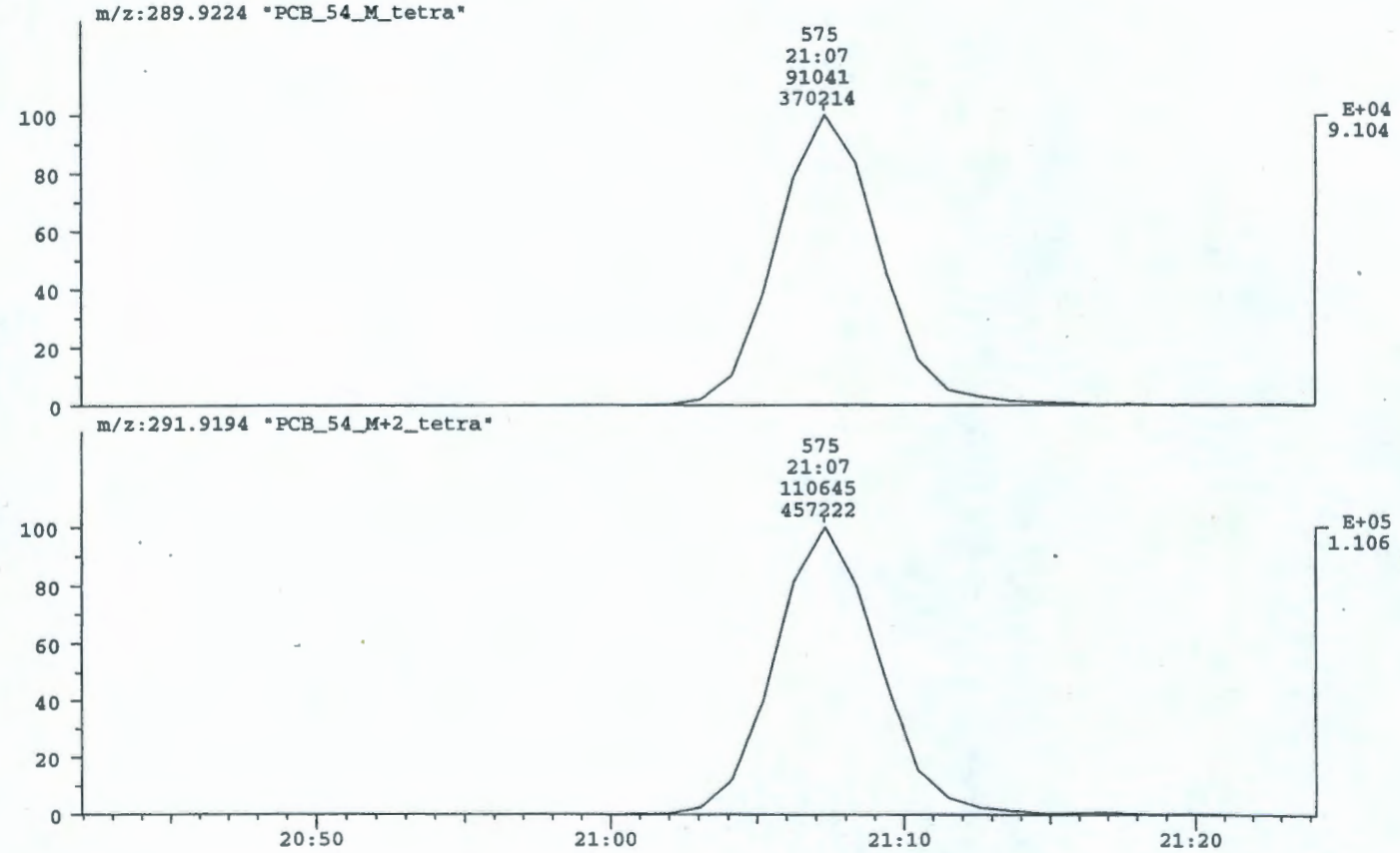
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  23:19.5      696
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   526 > 866            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



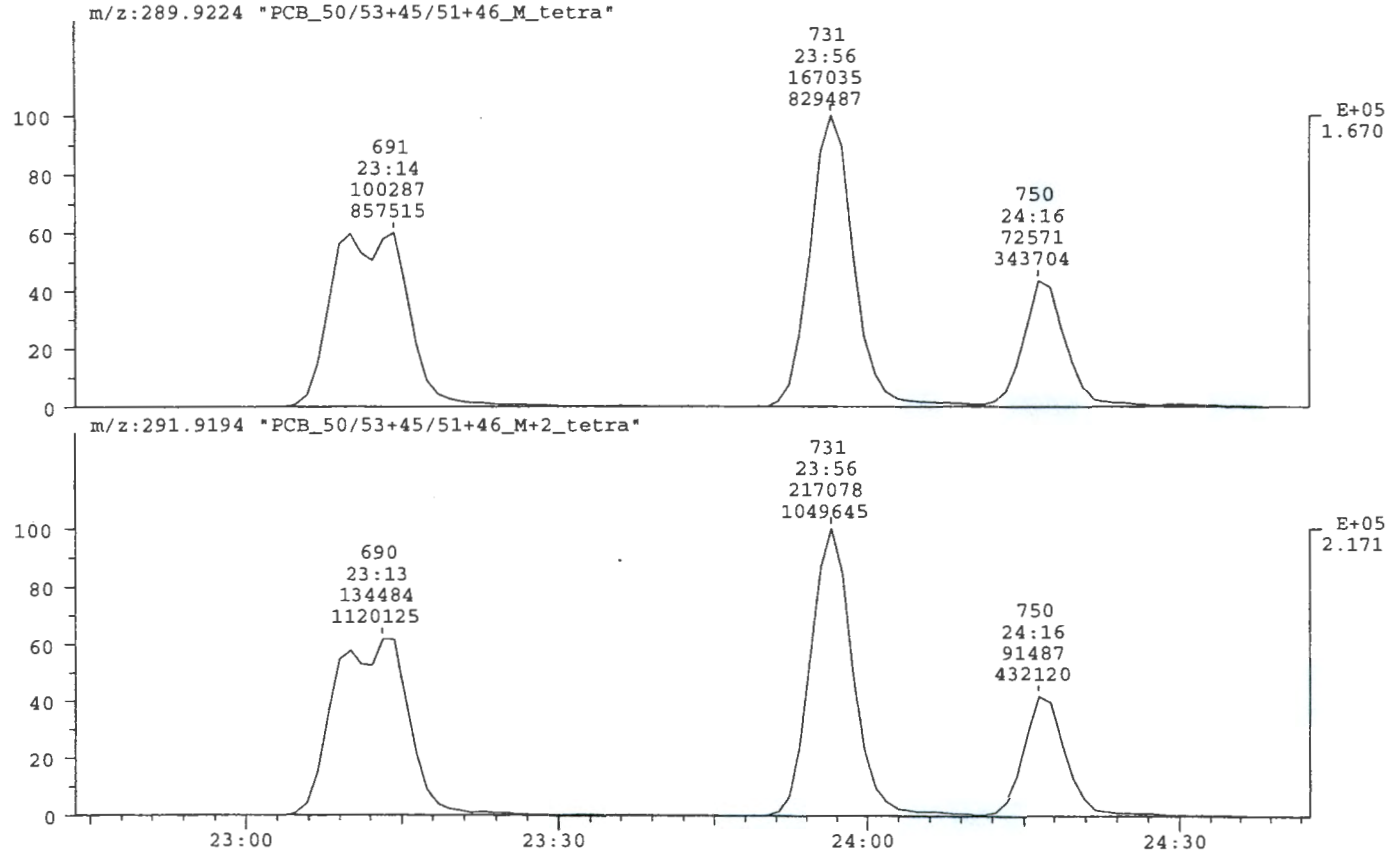
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  34:10      1312
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1242 > 1387          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



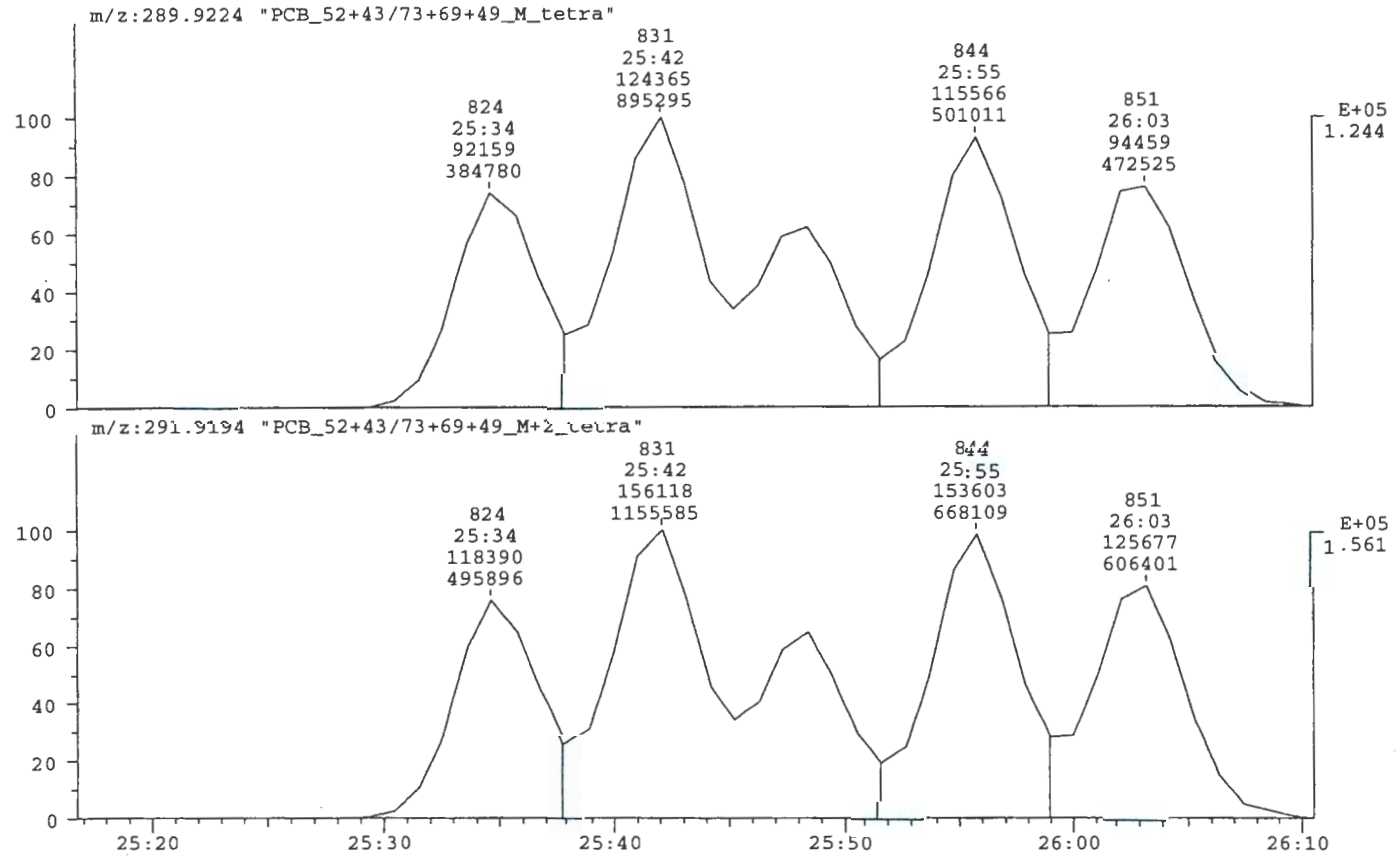
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  21:03.1      571
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   551 > 591            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



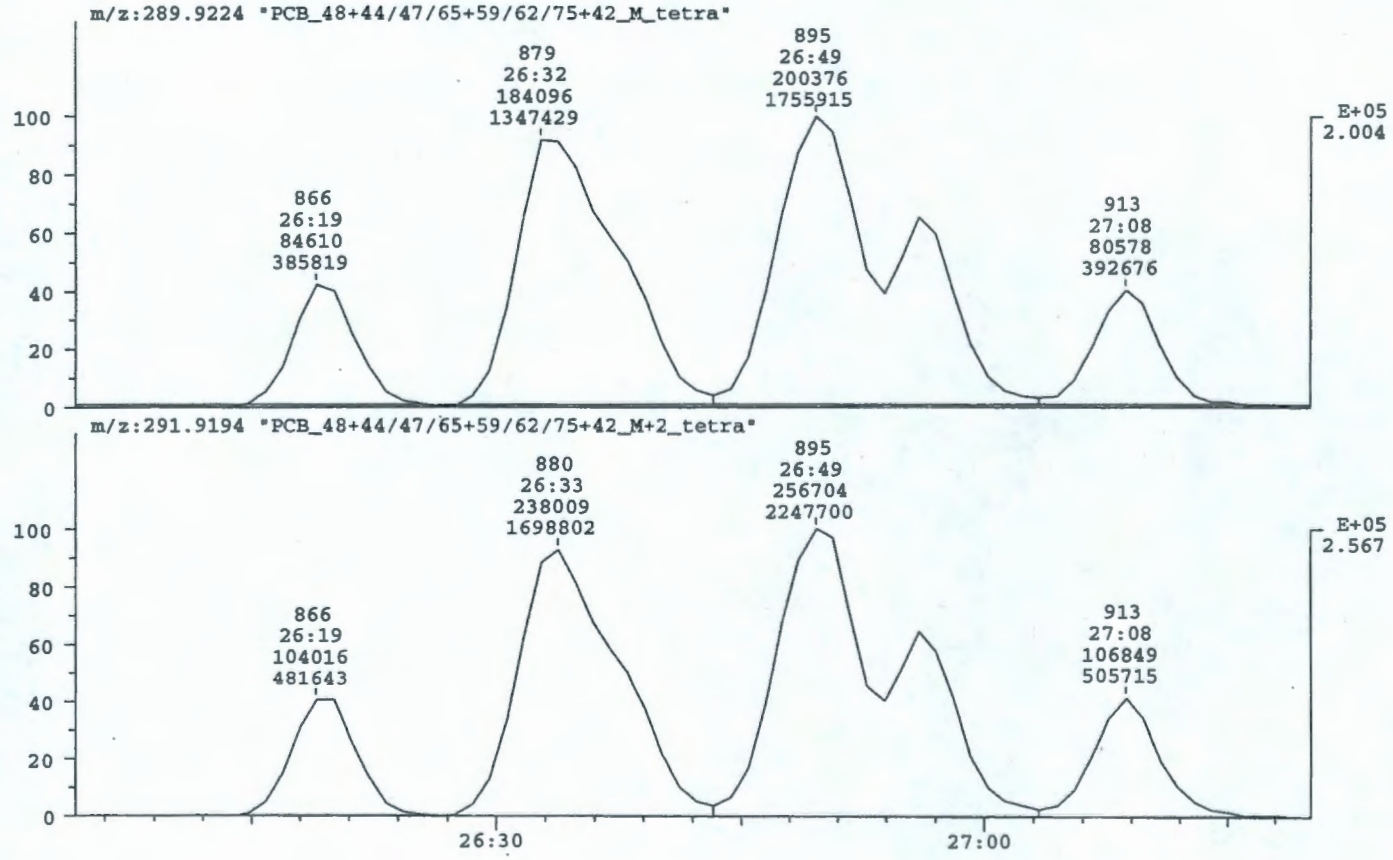
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  23:50.1      725
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   662 > 775             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 9                Label :  -3, 3.0
Disp:  Height  Area
```



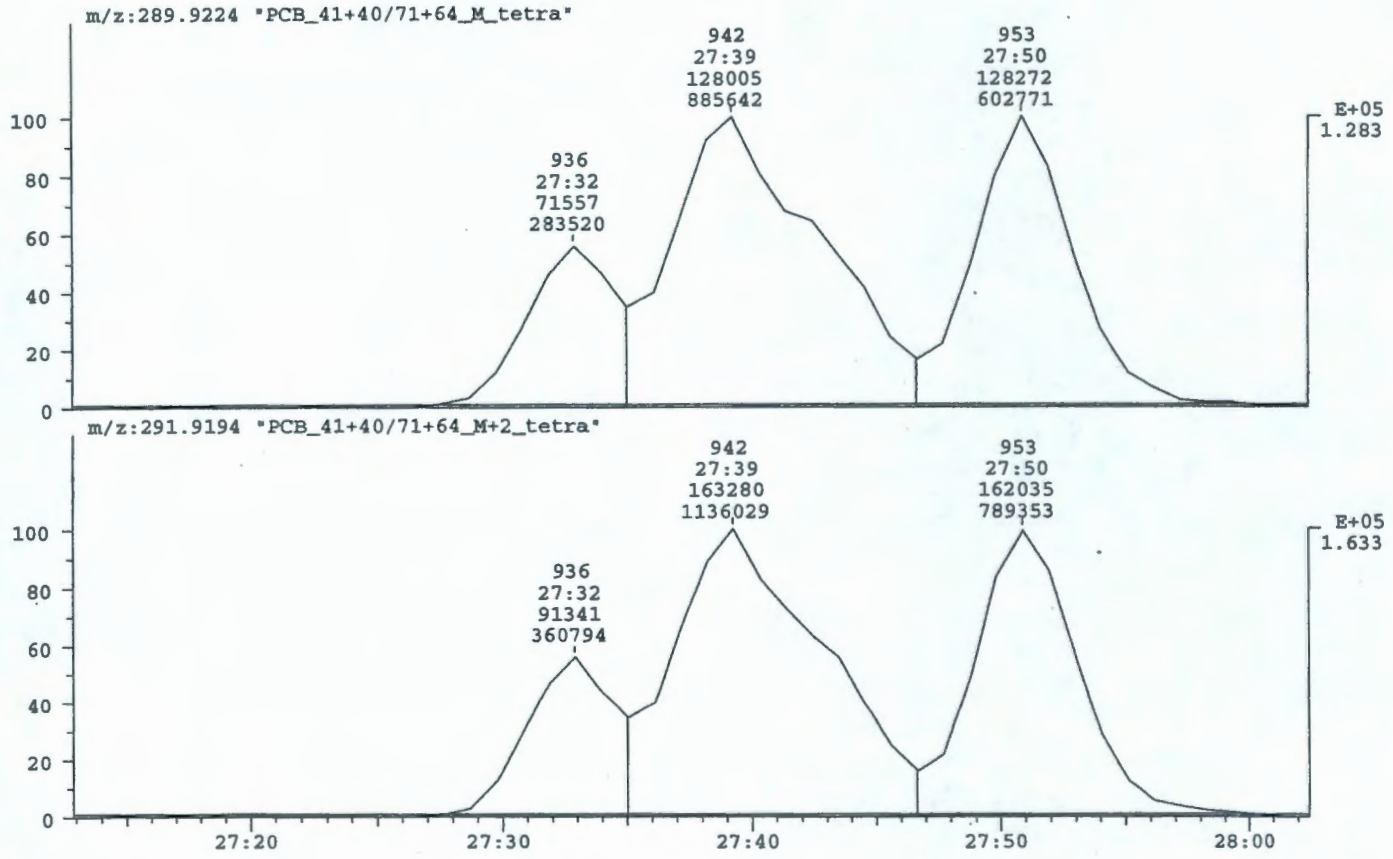
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  25:51.5      840
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   807 > 858             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5                Label :  -3, 3.0
Disp:  Height  Area
```



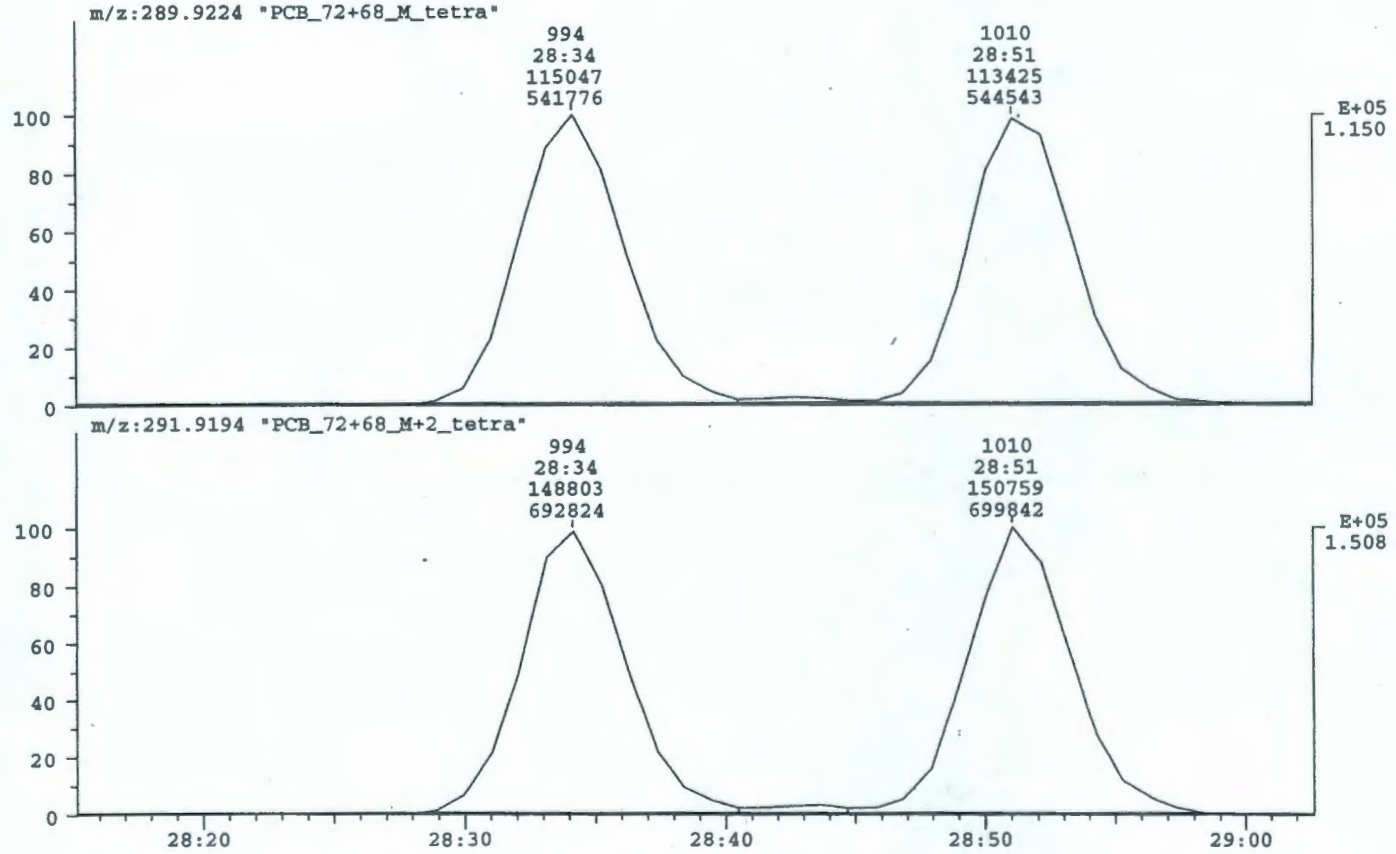
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  26:46.4     892
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   852 > 924             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 5                Label :  -3, 3.0
Disp:  Height  Area
```



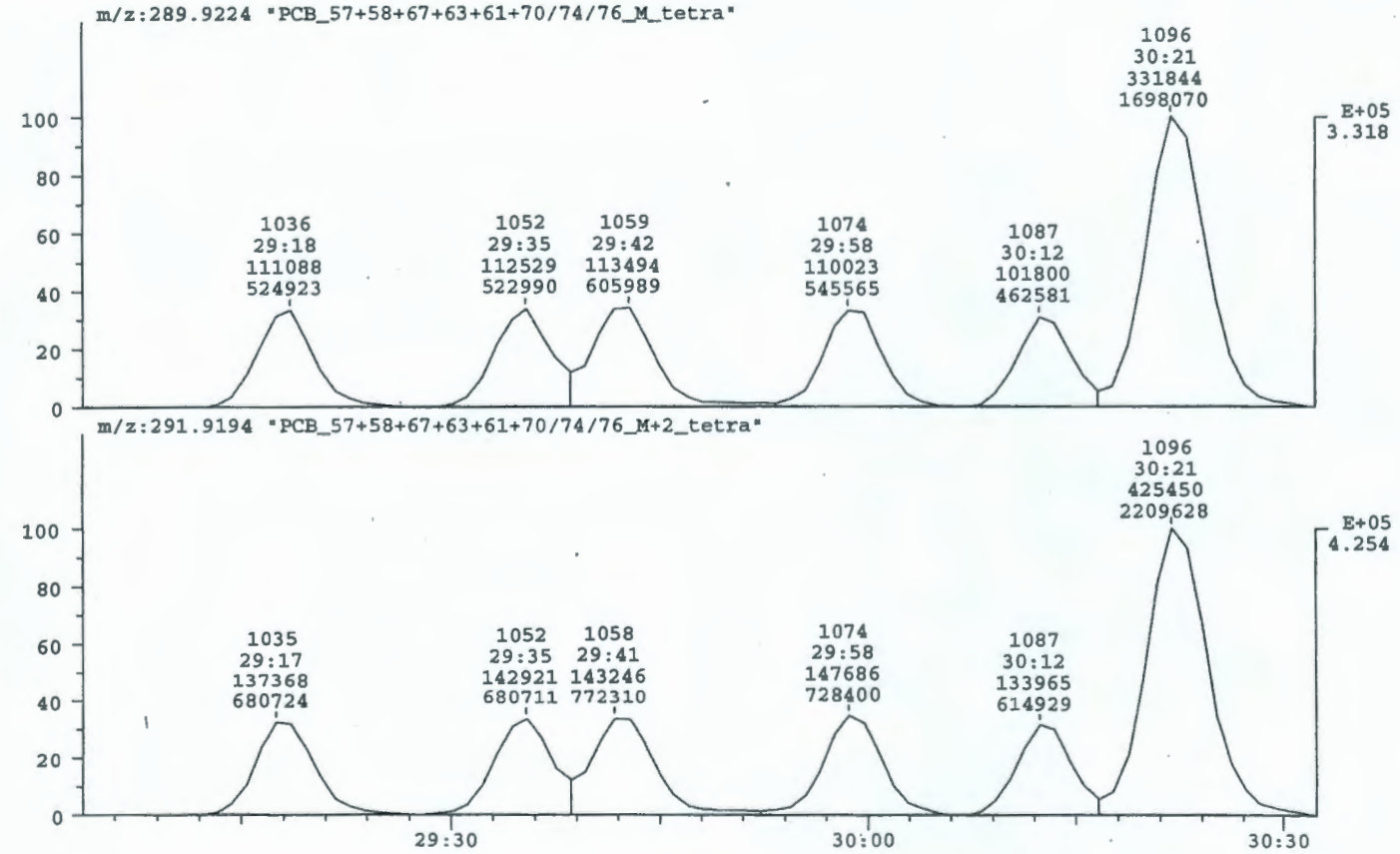
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  27:46.7      949
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   917 > 964             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```



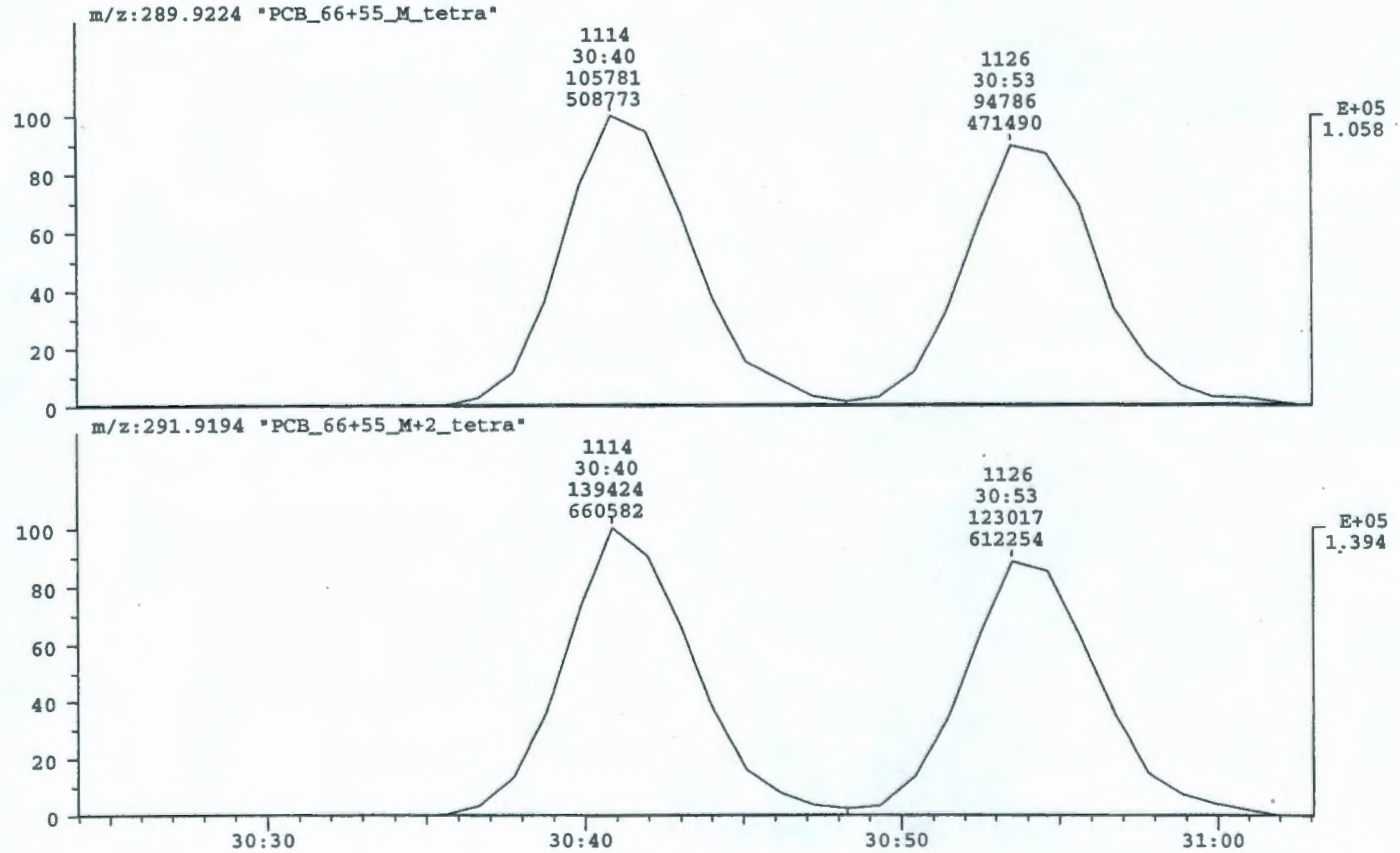
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  28:46      1006
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   976 > 1021           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1               Label :  -3, 3.0
Disp:  Height  Area
```



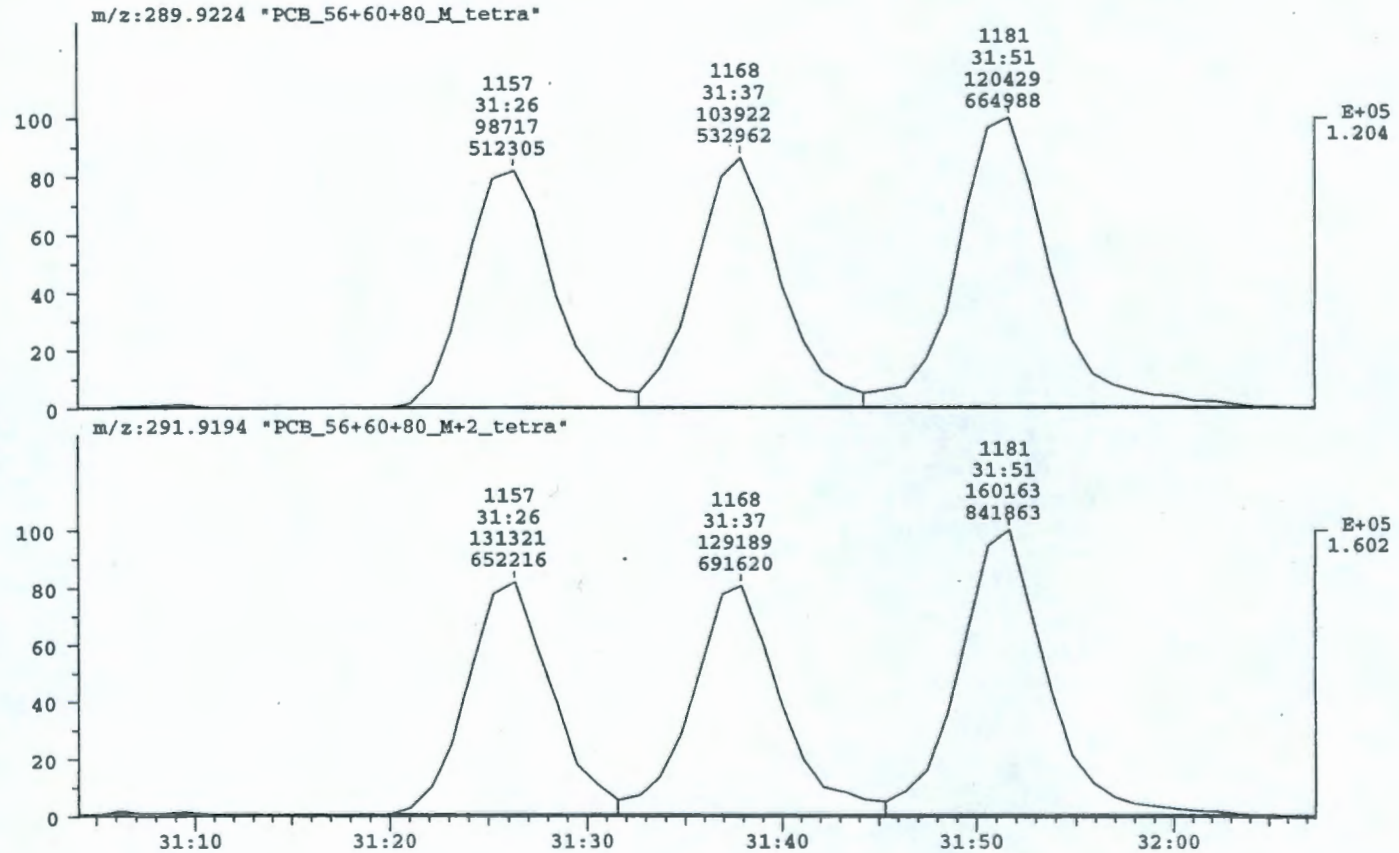
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  29:53      1069
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1022 > 1106           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



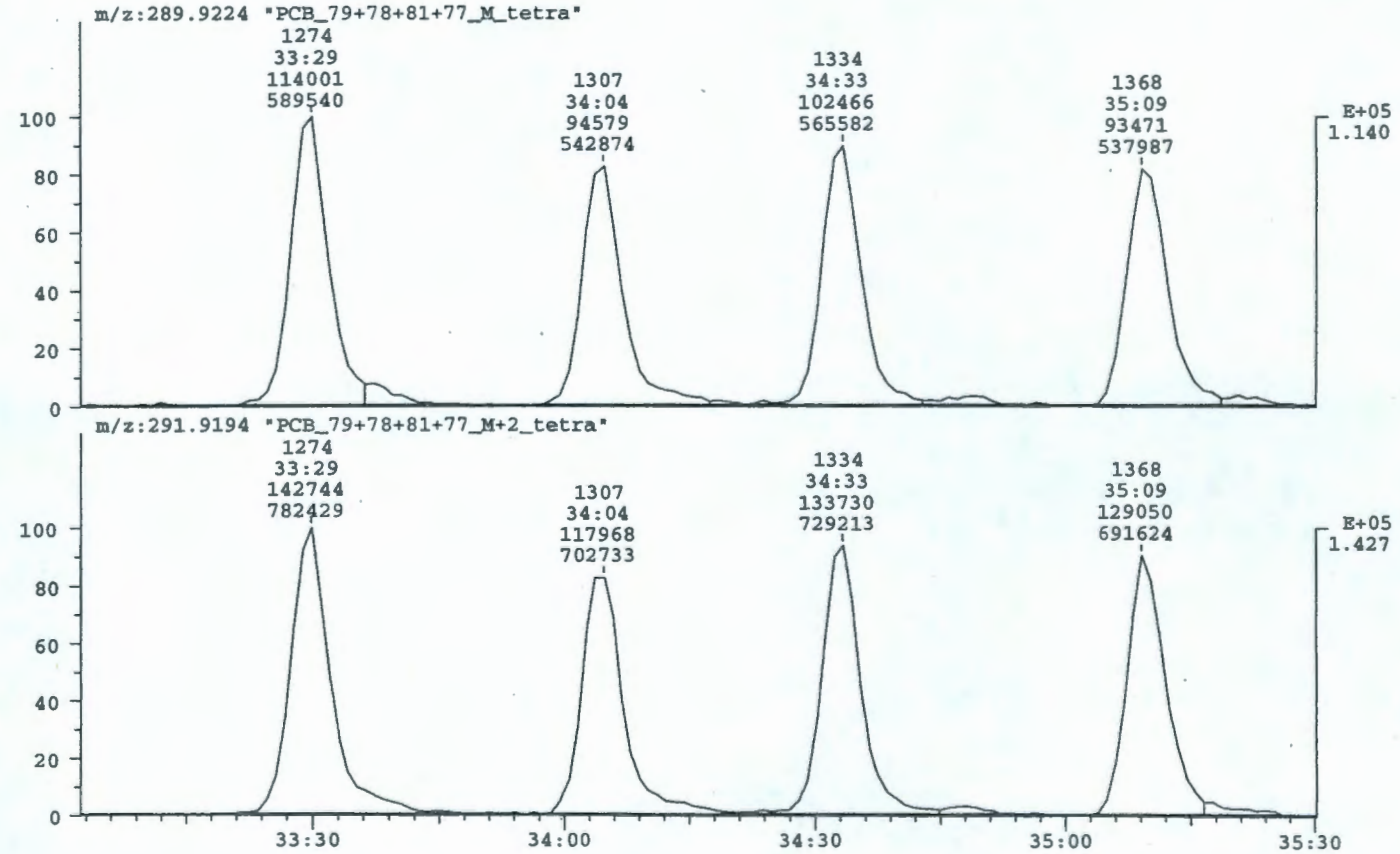
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  30:50      1123
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1098 > 1135           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



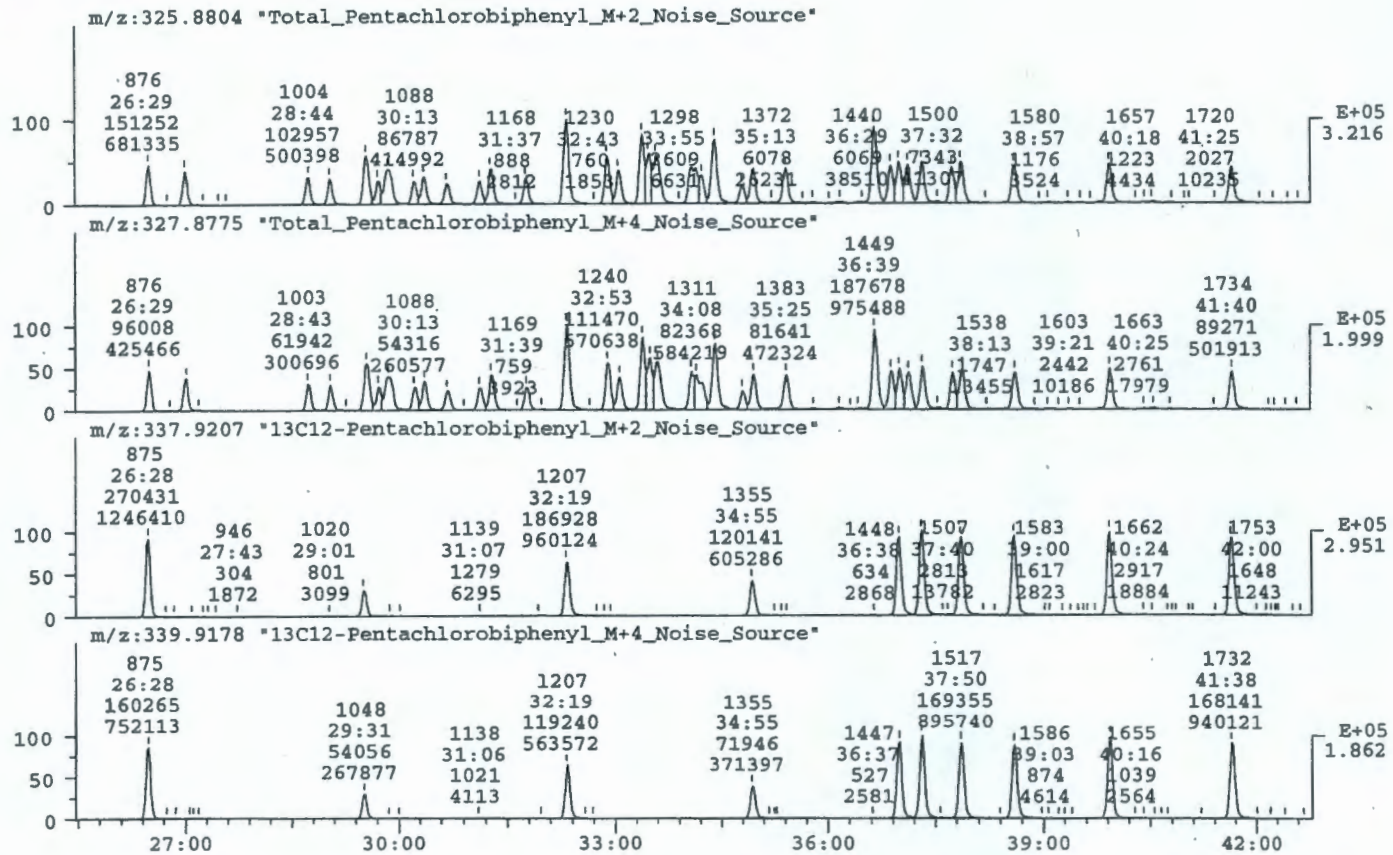
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  31:41      1171
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1136 > 1196           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



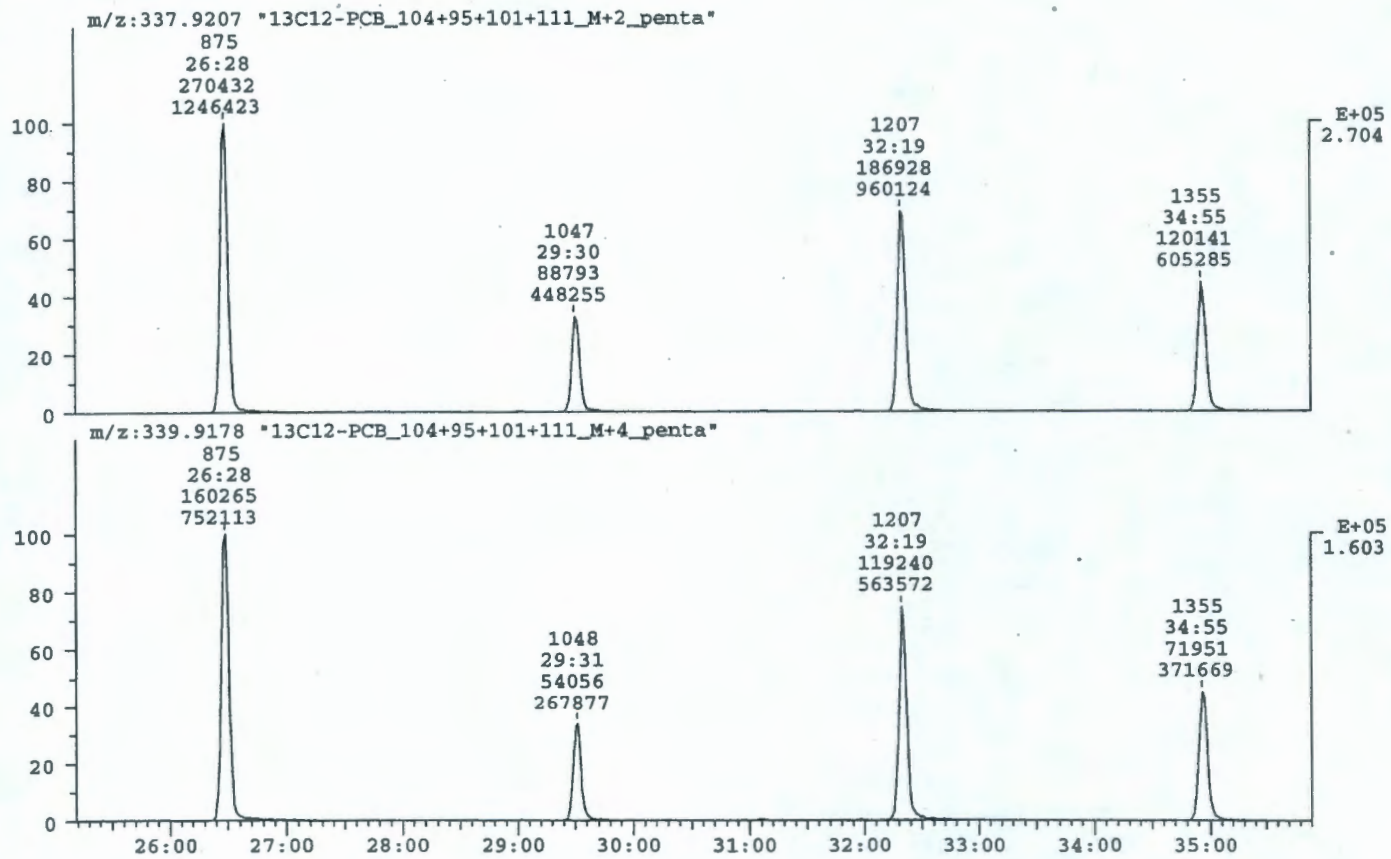
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  34:11      1313
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1248 > 1388           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



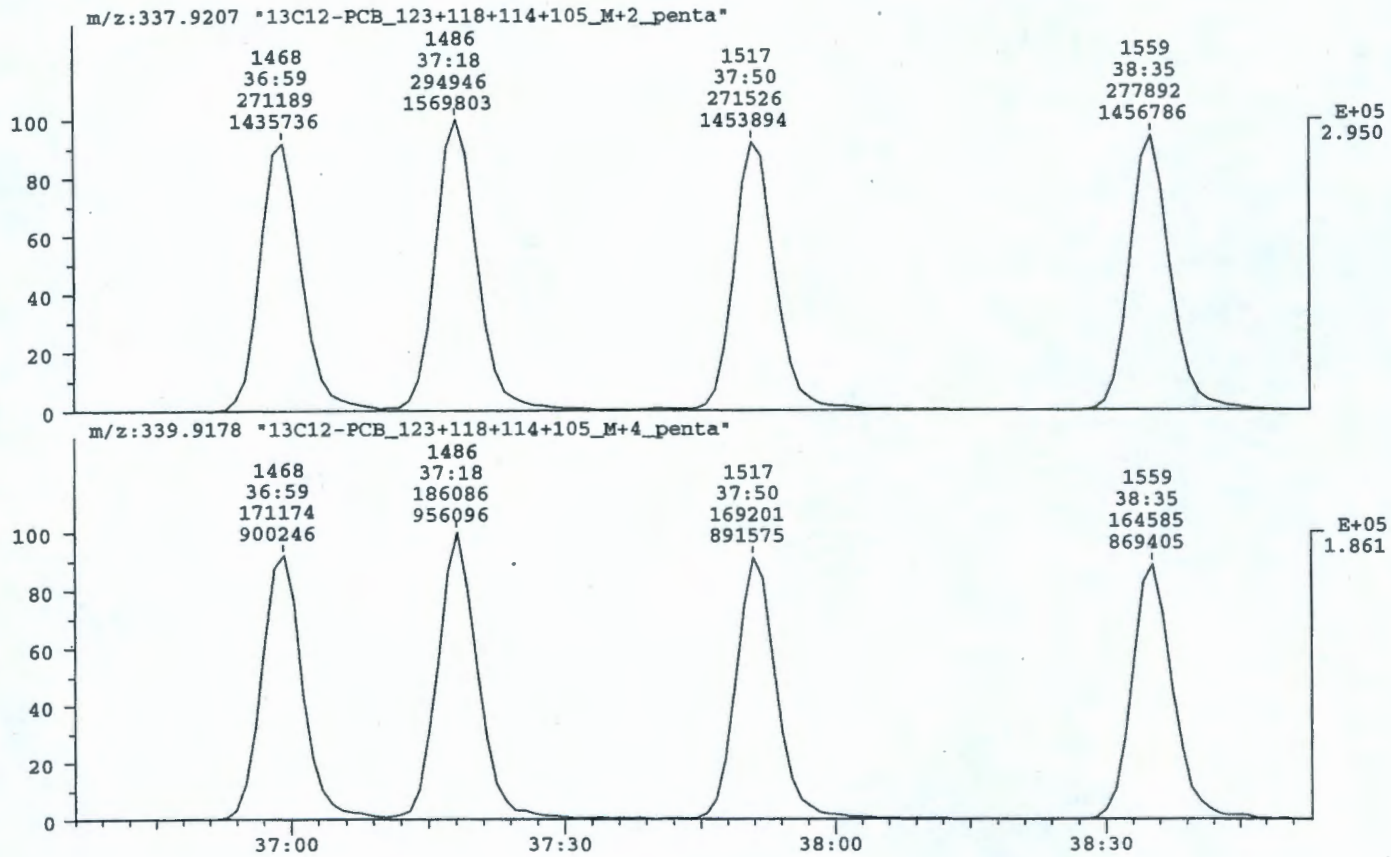
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  34:07      1310
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   818 > 1798           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



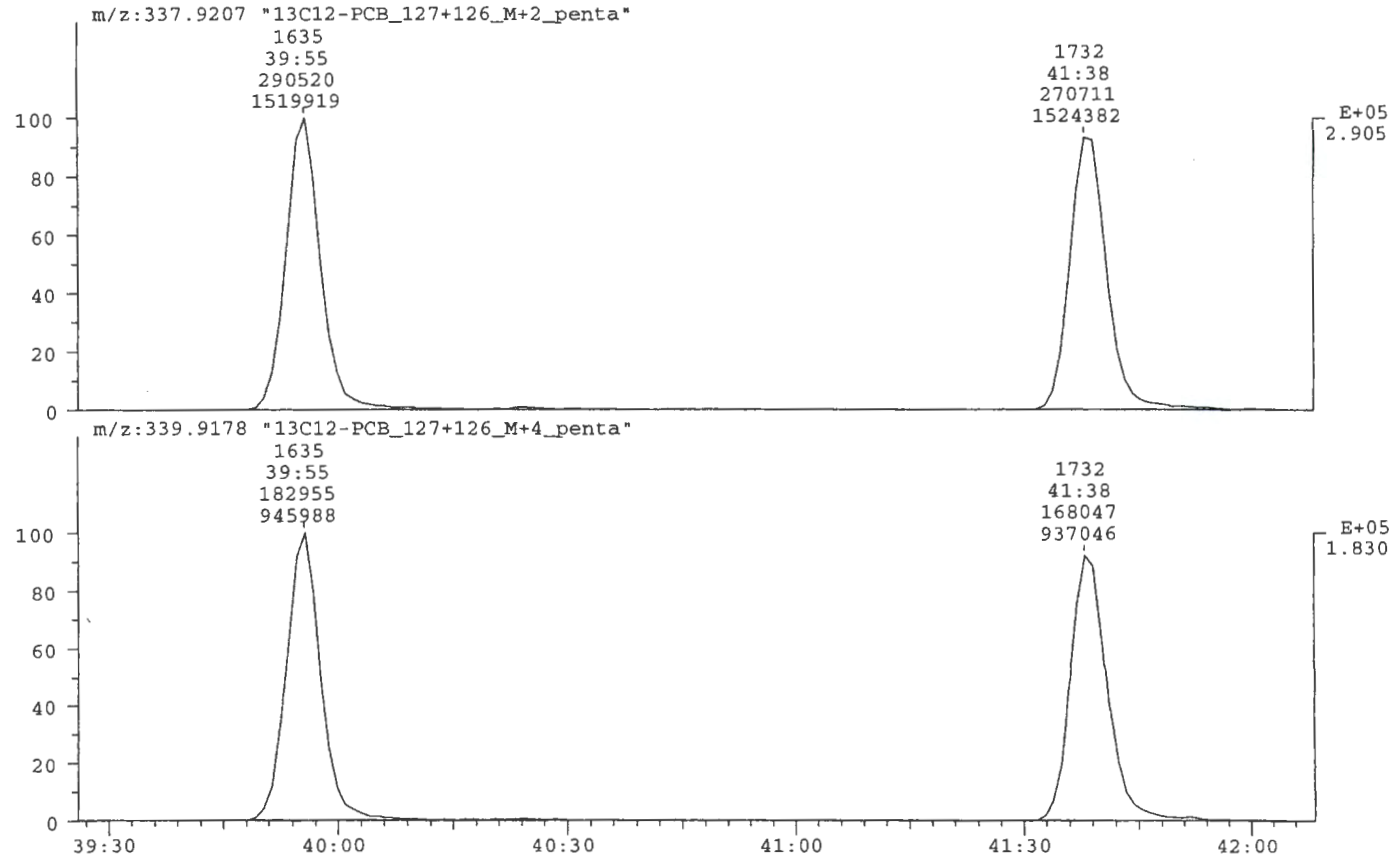
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  30:32      1106
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   802 > 1411           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



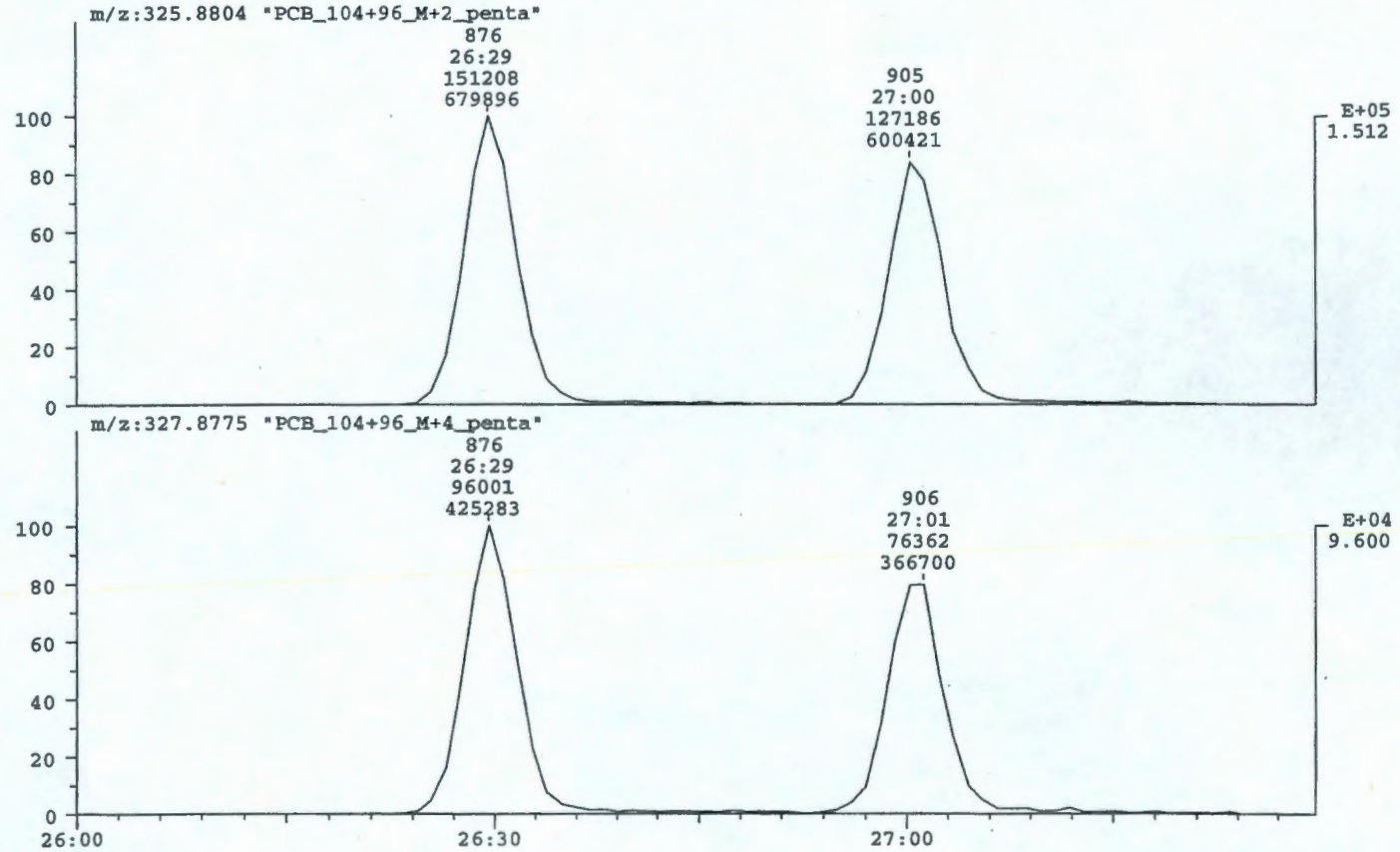
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  37:49      1516
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1446 > 1576          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



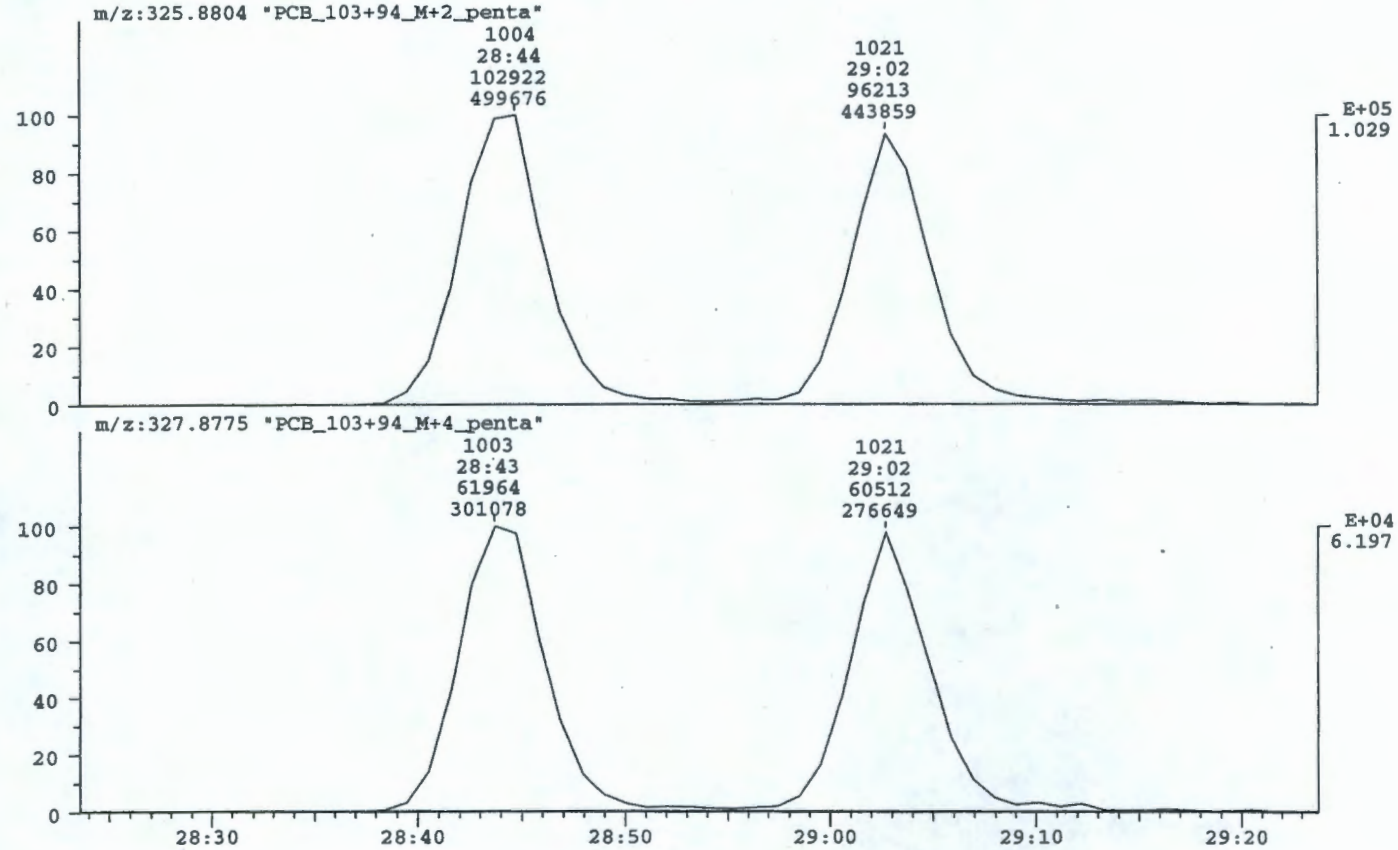
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  40:50       1687
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1607 > 1761           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



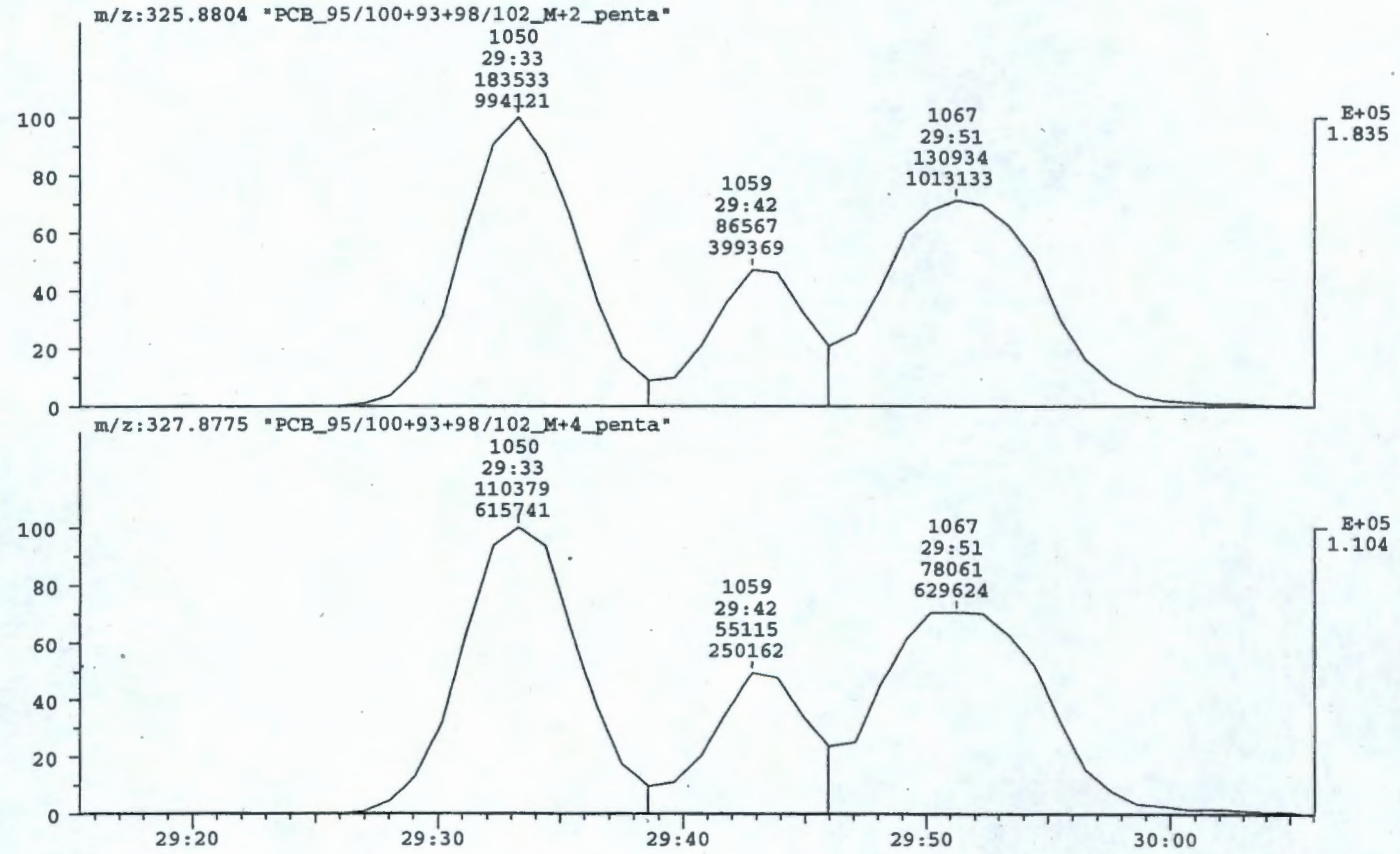
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  26:47.5      893
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   848 > 933             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



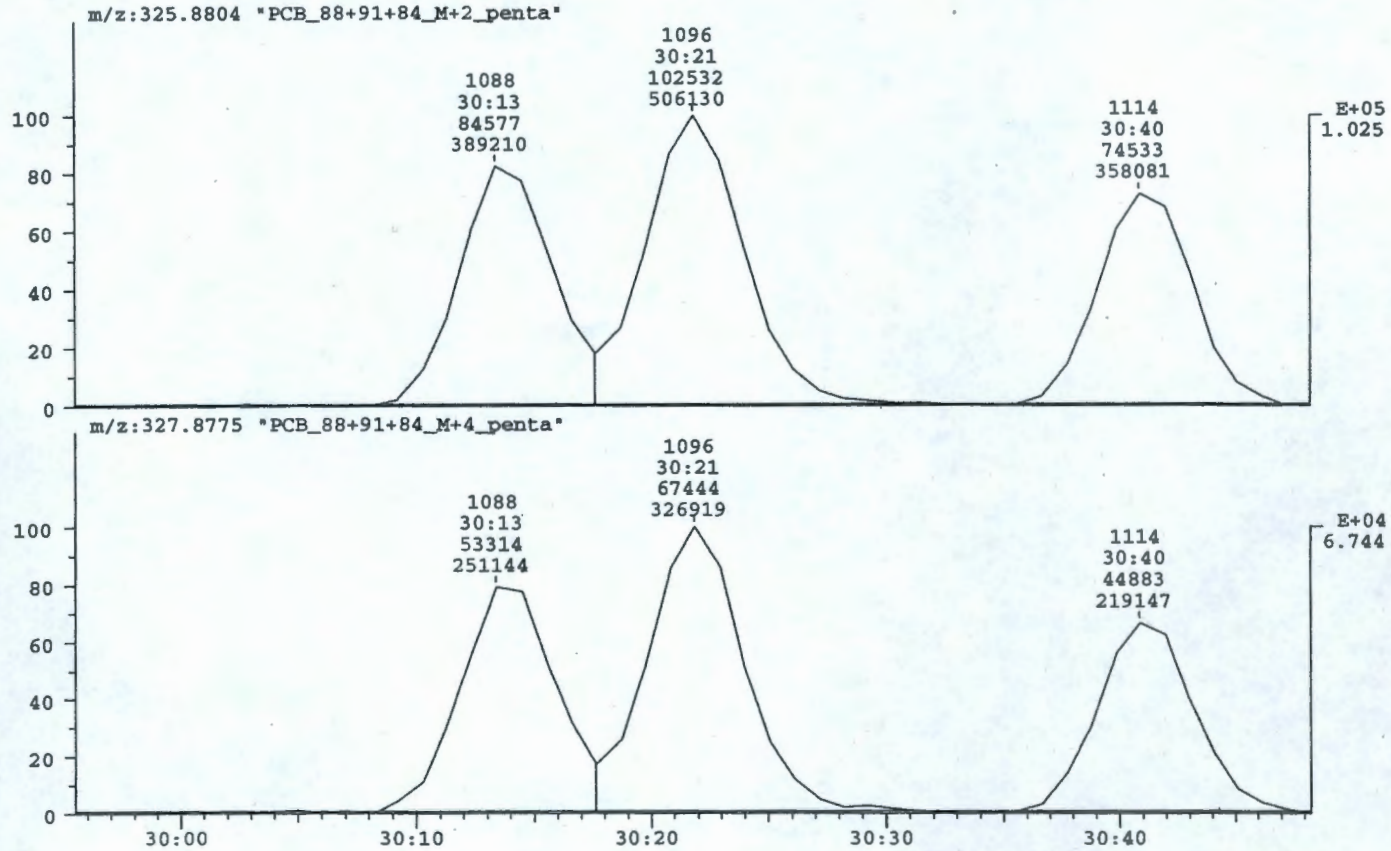
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  28:58      1017
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   984 > 1041           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



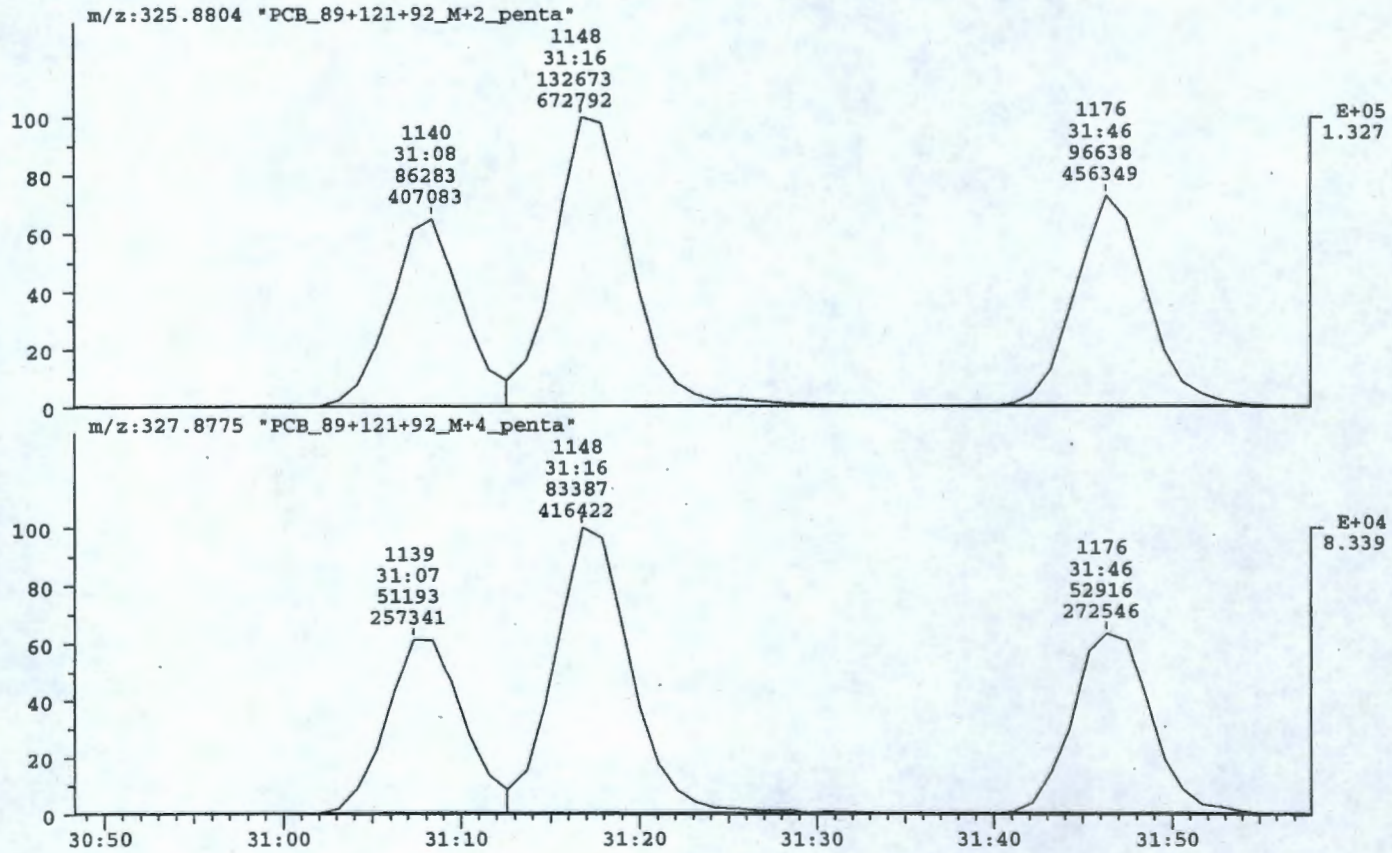
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  29:43      1060
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1033 > 1081           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 4                Label :  -3, 3.0
Disp:  Height  Area
```



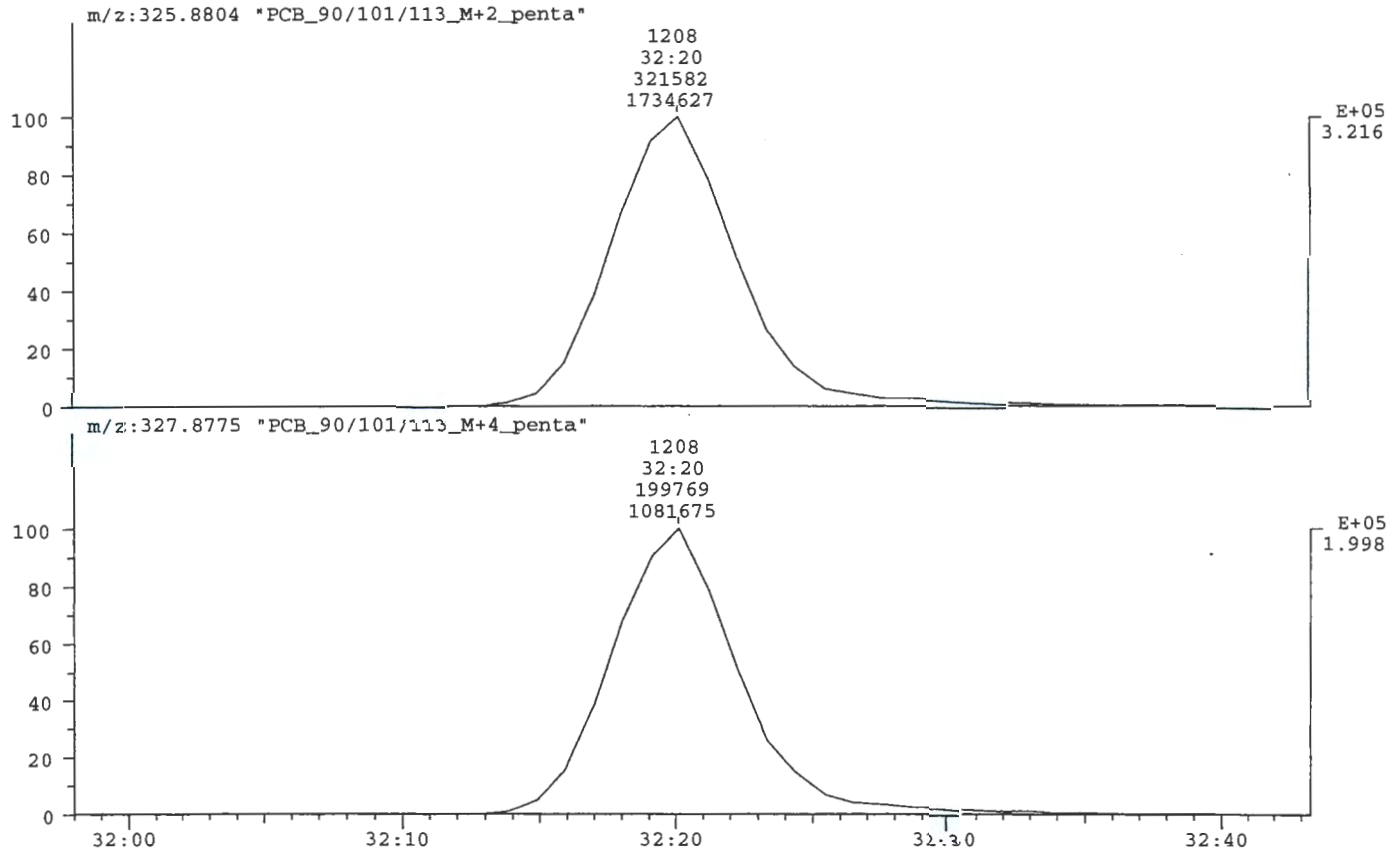
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  30:30      1104
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1071 > 1121           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```



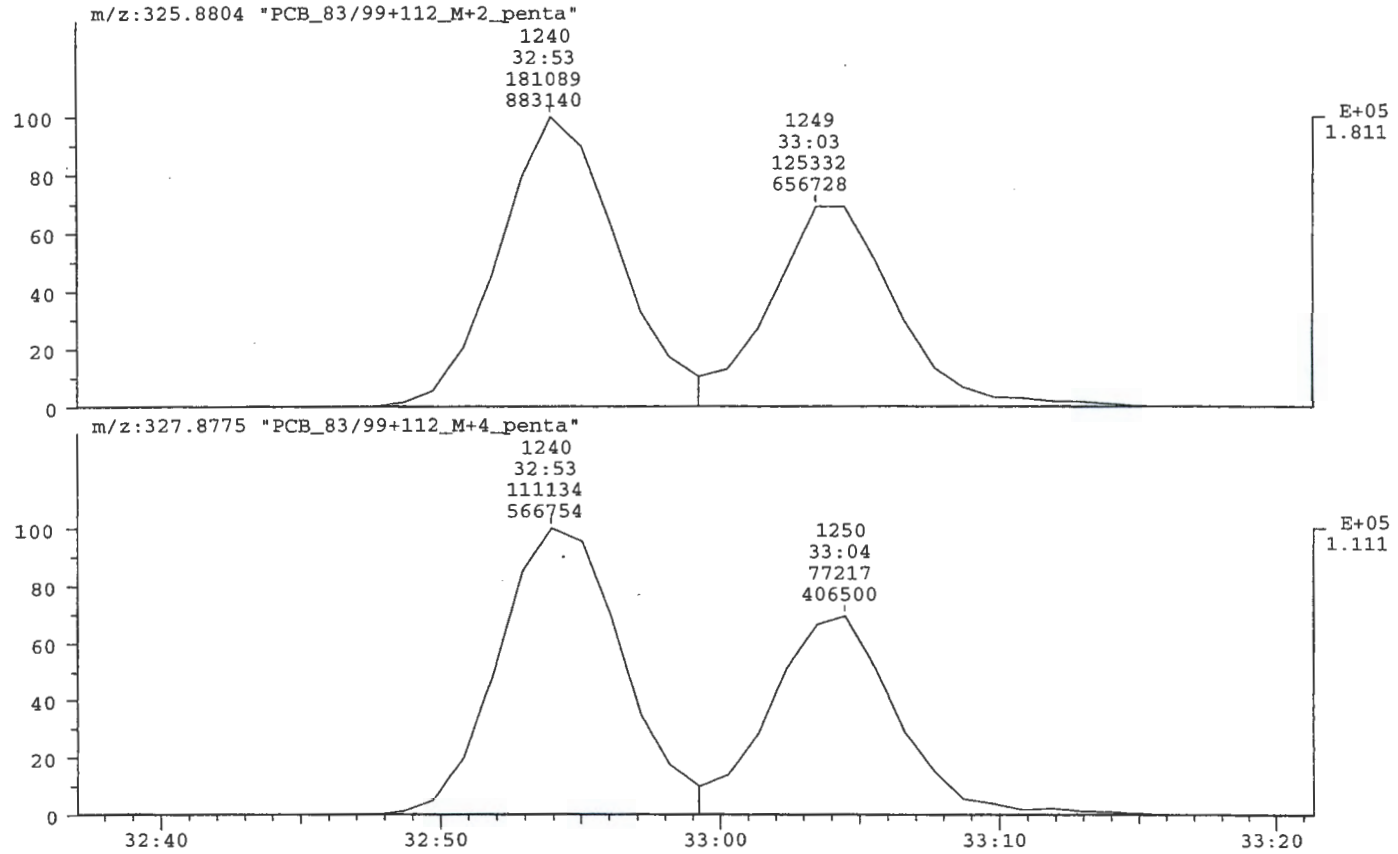
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  31:30      1161
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:  1121 > 1187           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :  100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



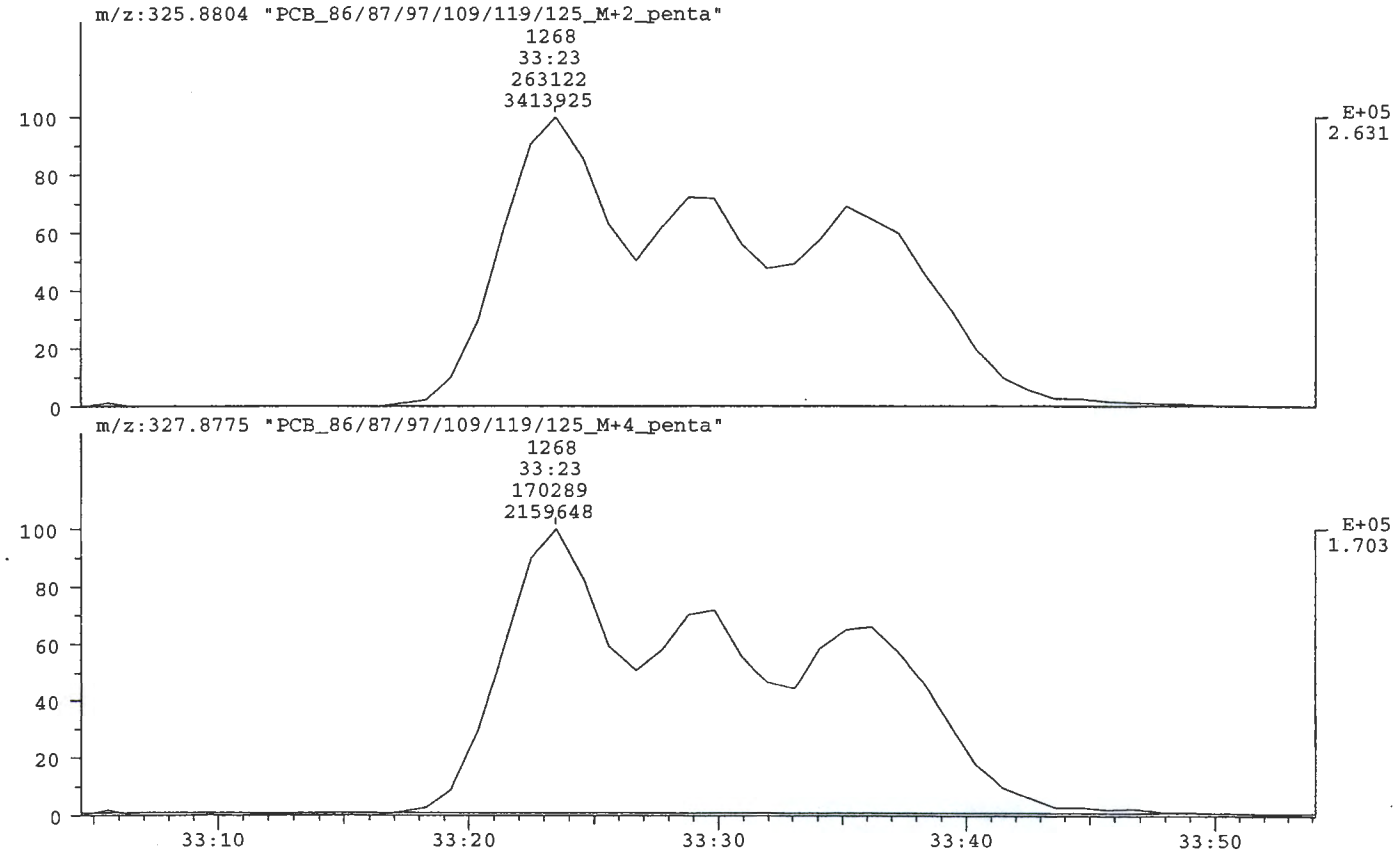
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  32:22      1210
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1187 > 1230          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



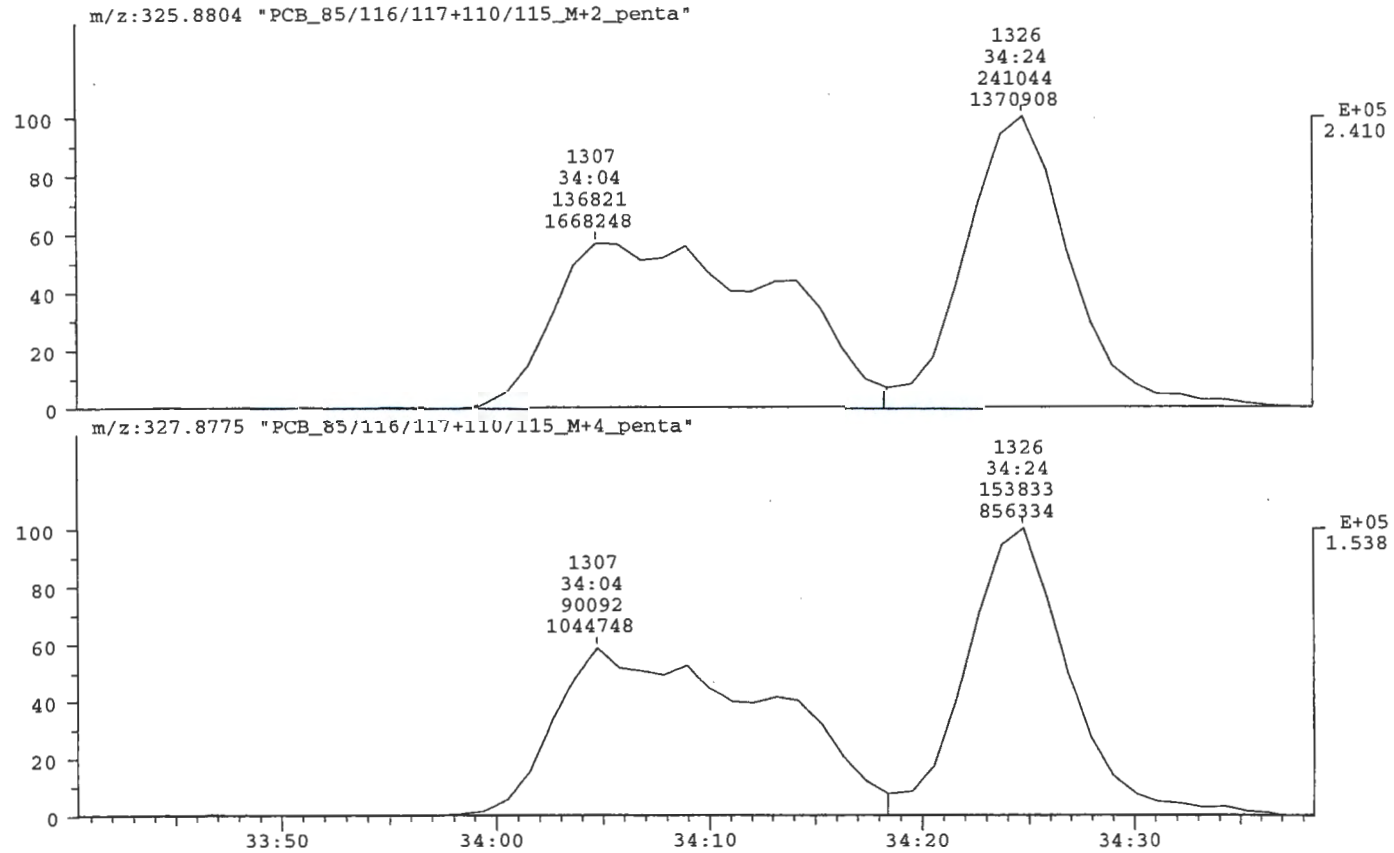
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  33:03      1249
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1224 > 1266           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



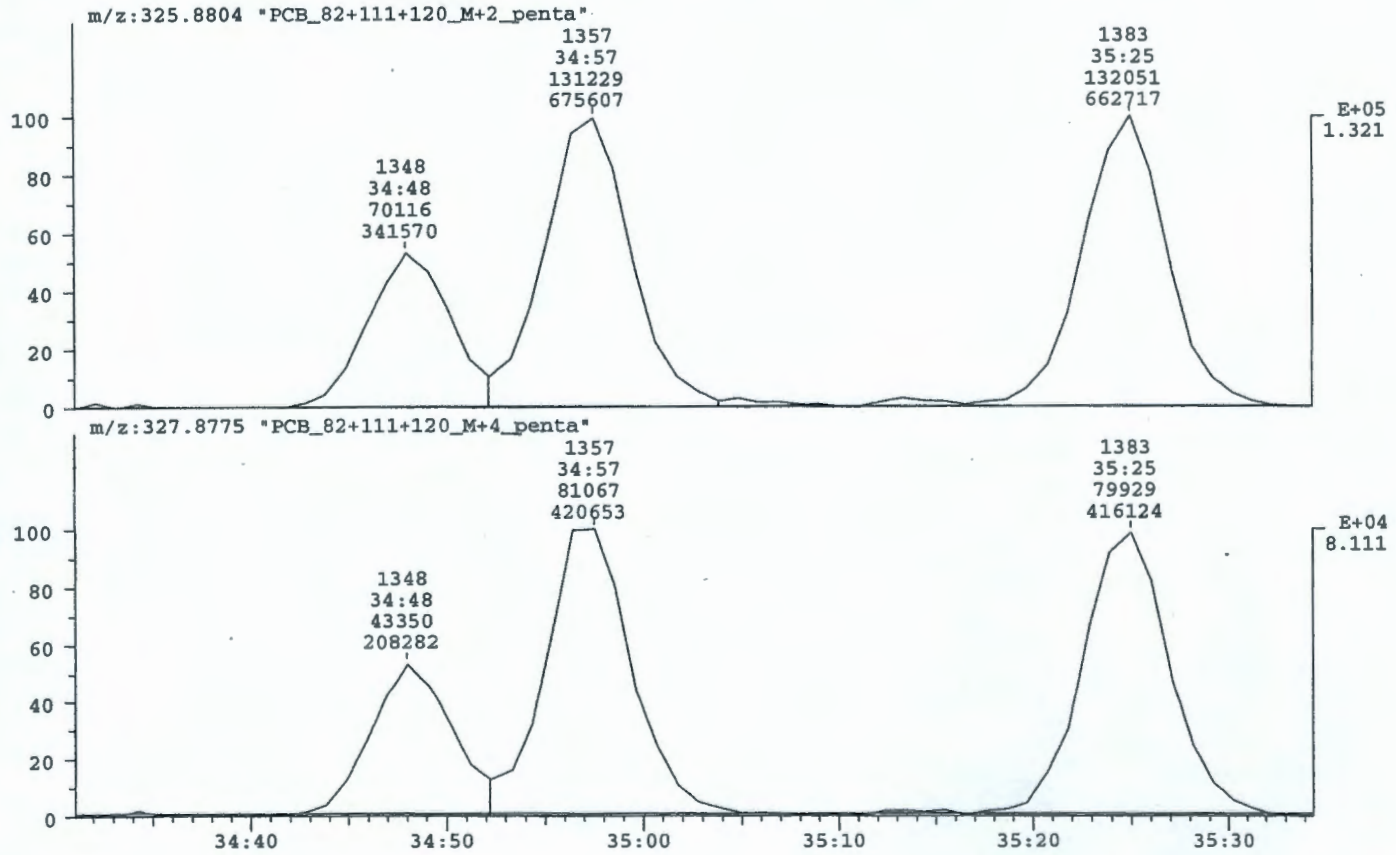
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  33:36      1280
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1250 > 1297           Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 12               Label :  -3, 3.0
Disp:  Height  Area
```



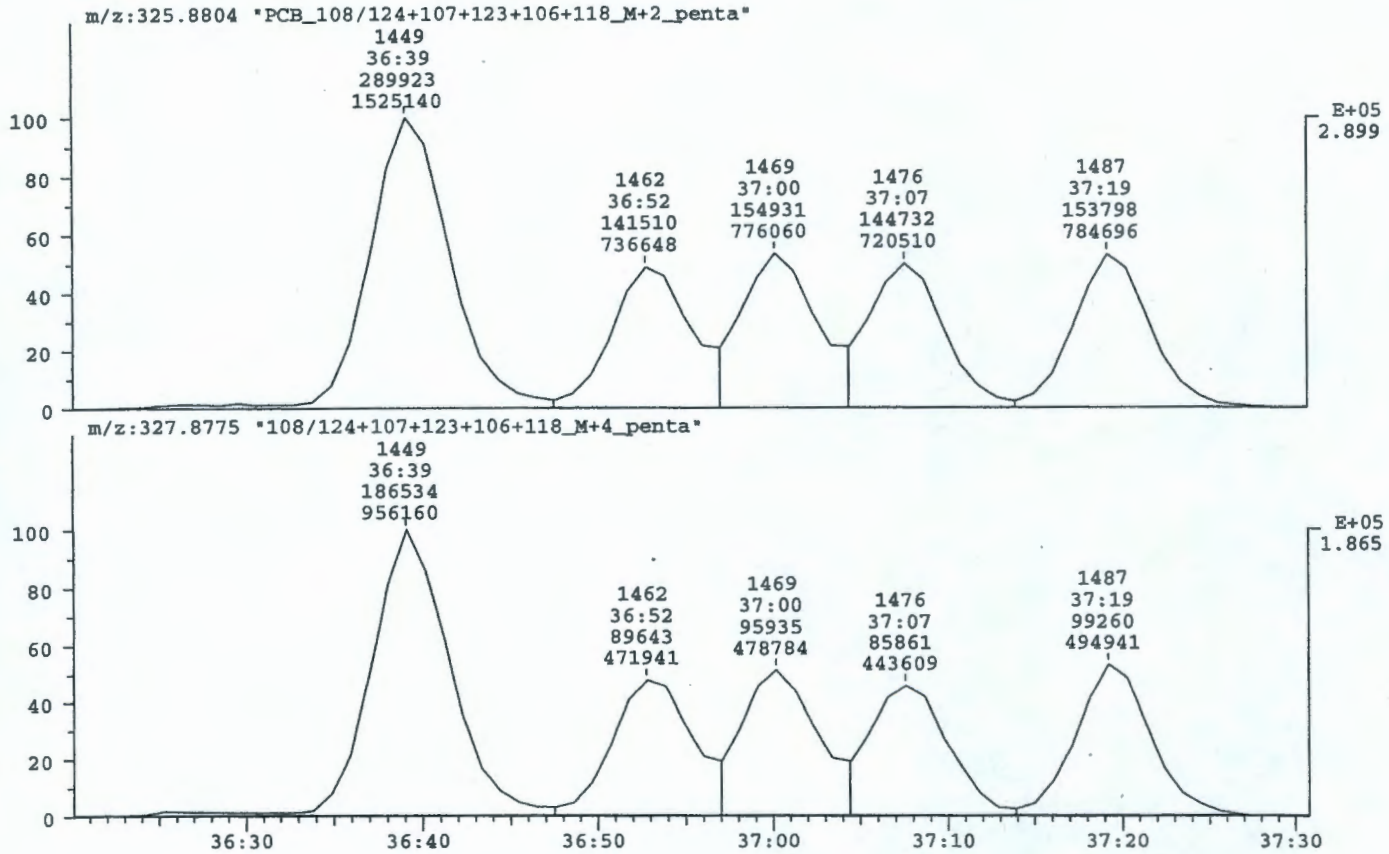
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  34:22      1324
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1284 > 1339           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 6                Label :  -3, 3.0
Disp:  Height  Area
```



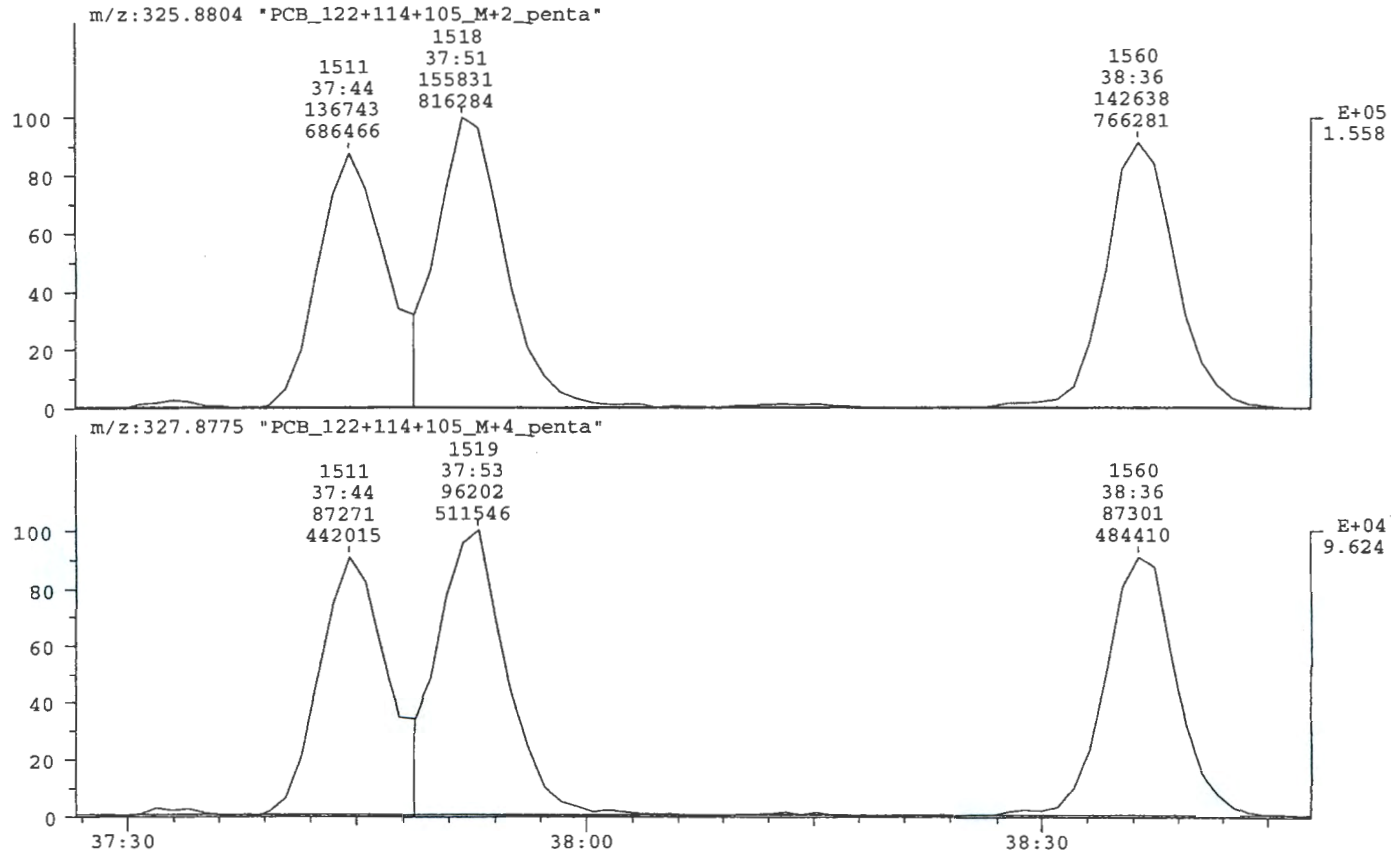
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  34:52      1352
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1332 > 1392          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1               Label :  -3, 3.0
Disp:  Height  Area
```



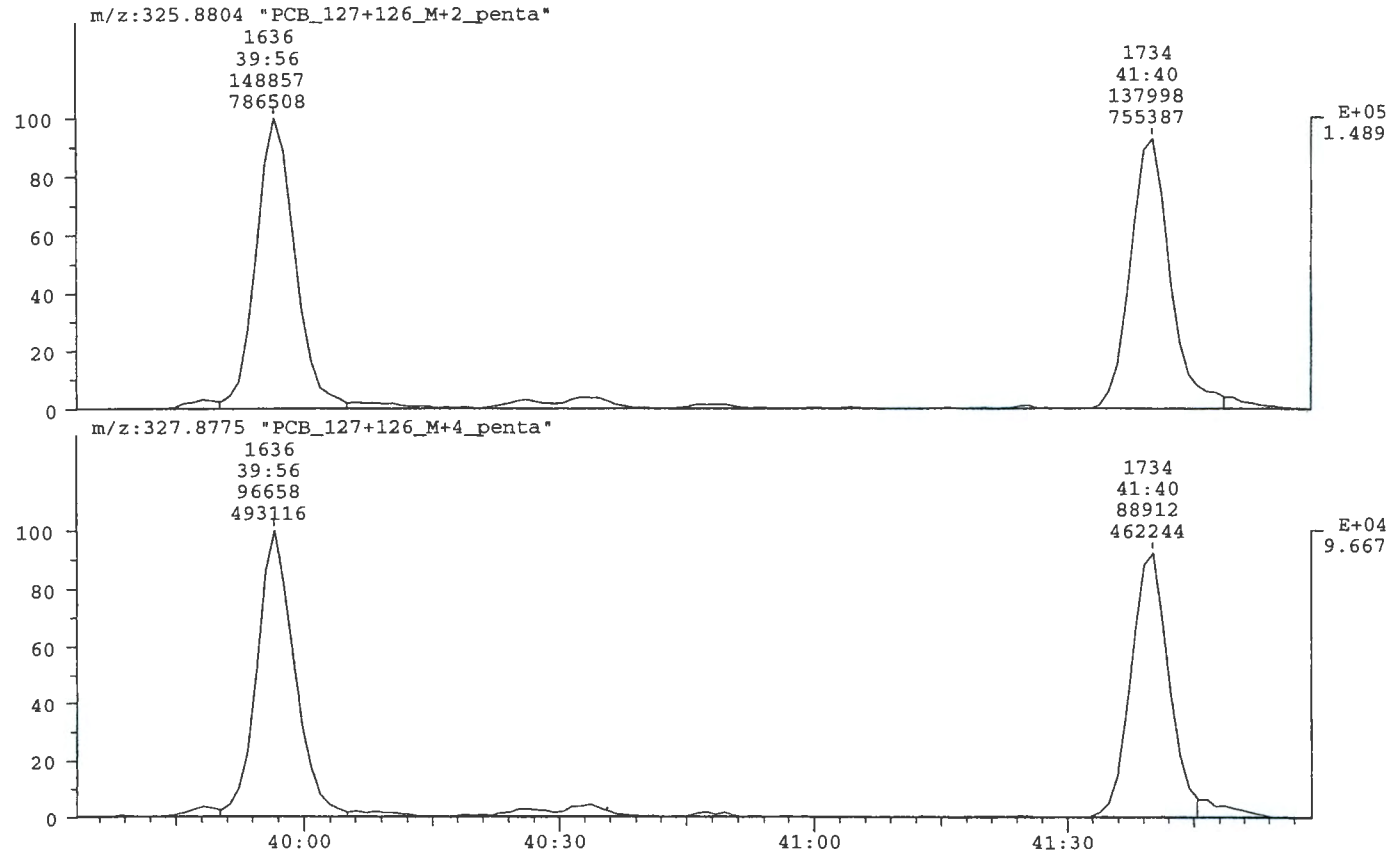
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  37:07      1476
Samp:  Vial 1 WO=2990:71 Meth=IE3 Di1=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:  1431 > 1498            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :  100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



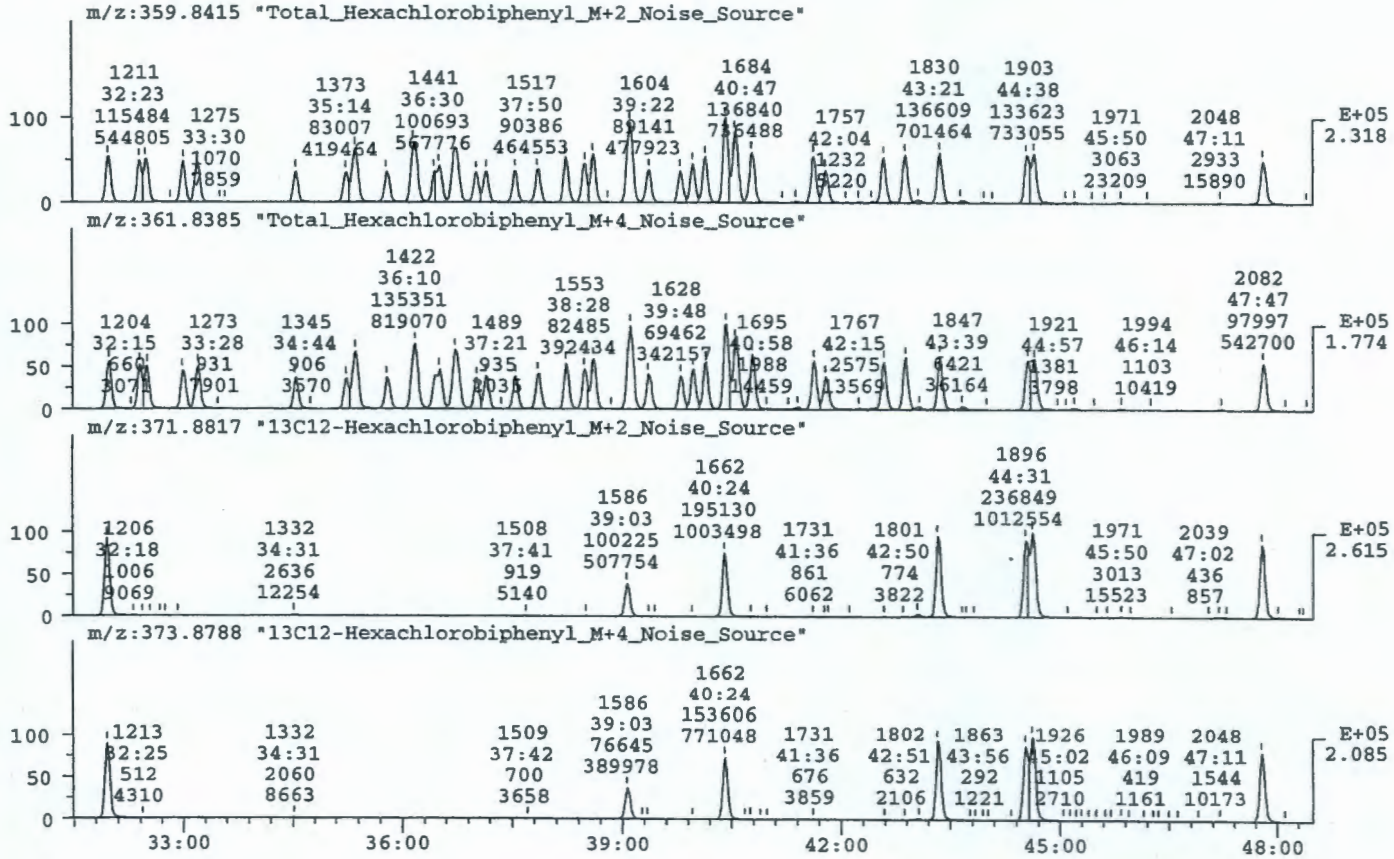
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  38:14       1539
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1494 > 1571           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



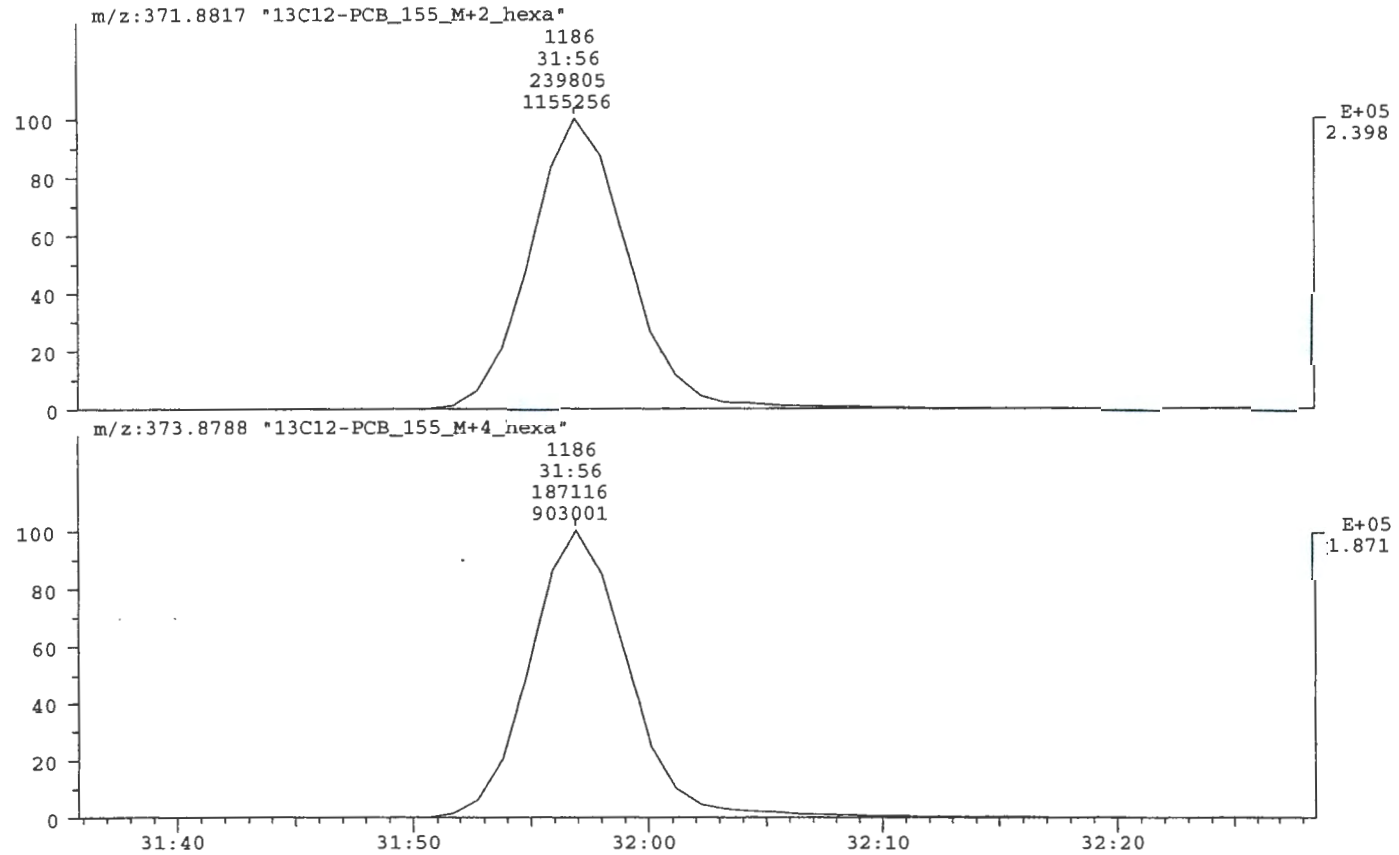
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  40:52      1689
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG           Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1614 > 1752           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



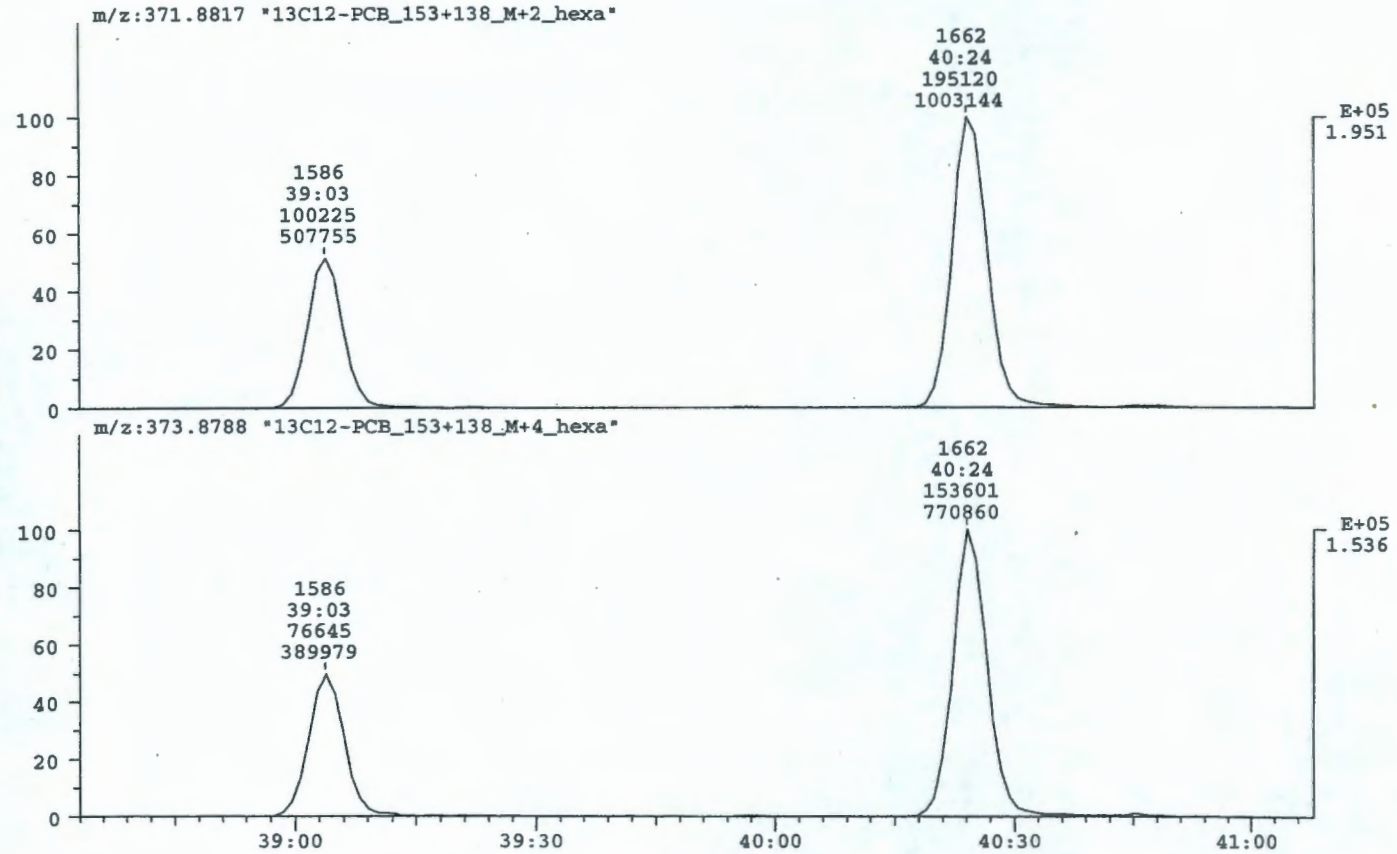
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  39:58      1638
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1160 > 2122          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



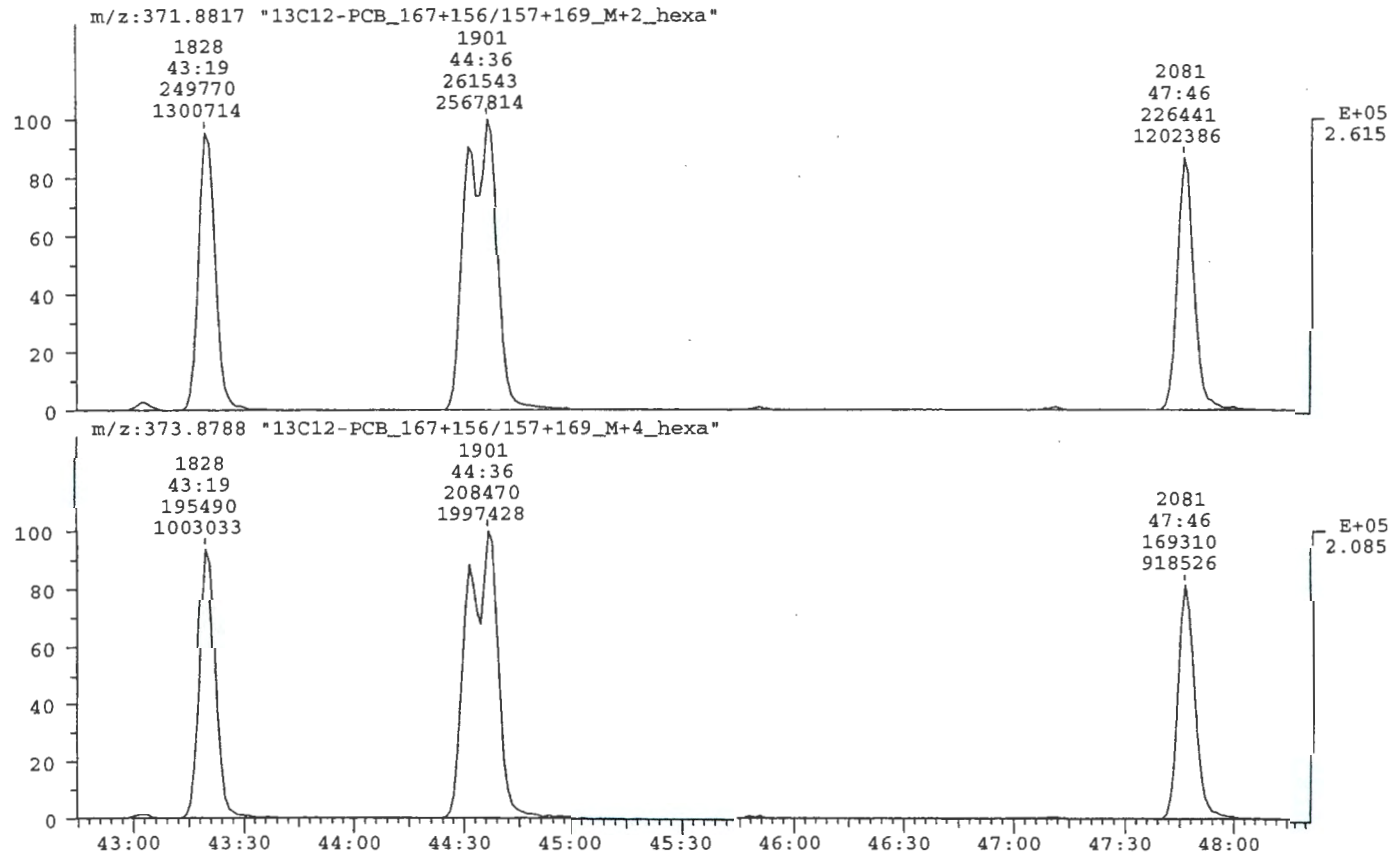
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  32:02      1191
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1166 > 1216          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



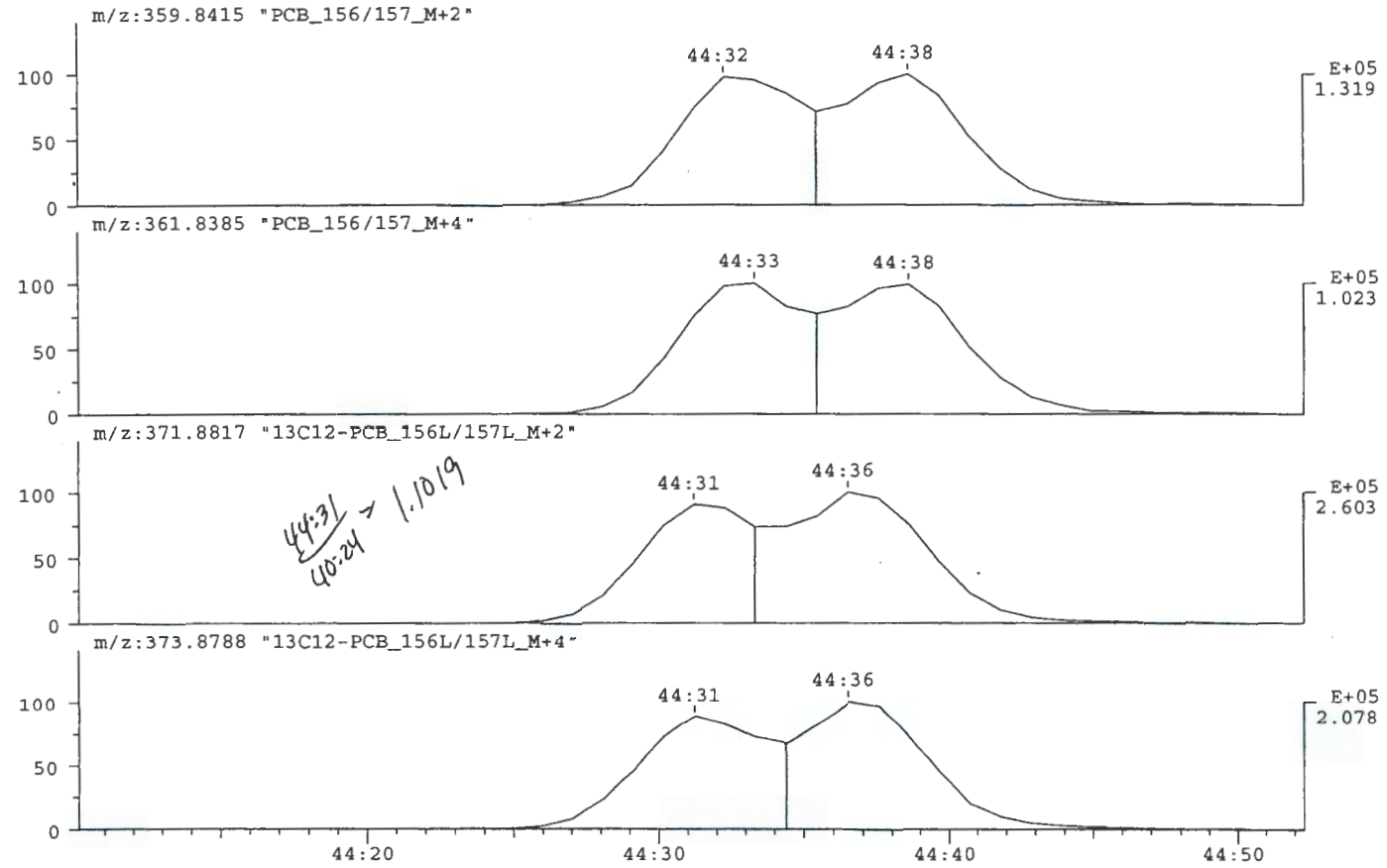
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  39:50      1630
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1557 > 1704          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



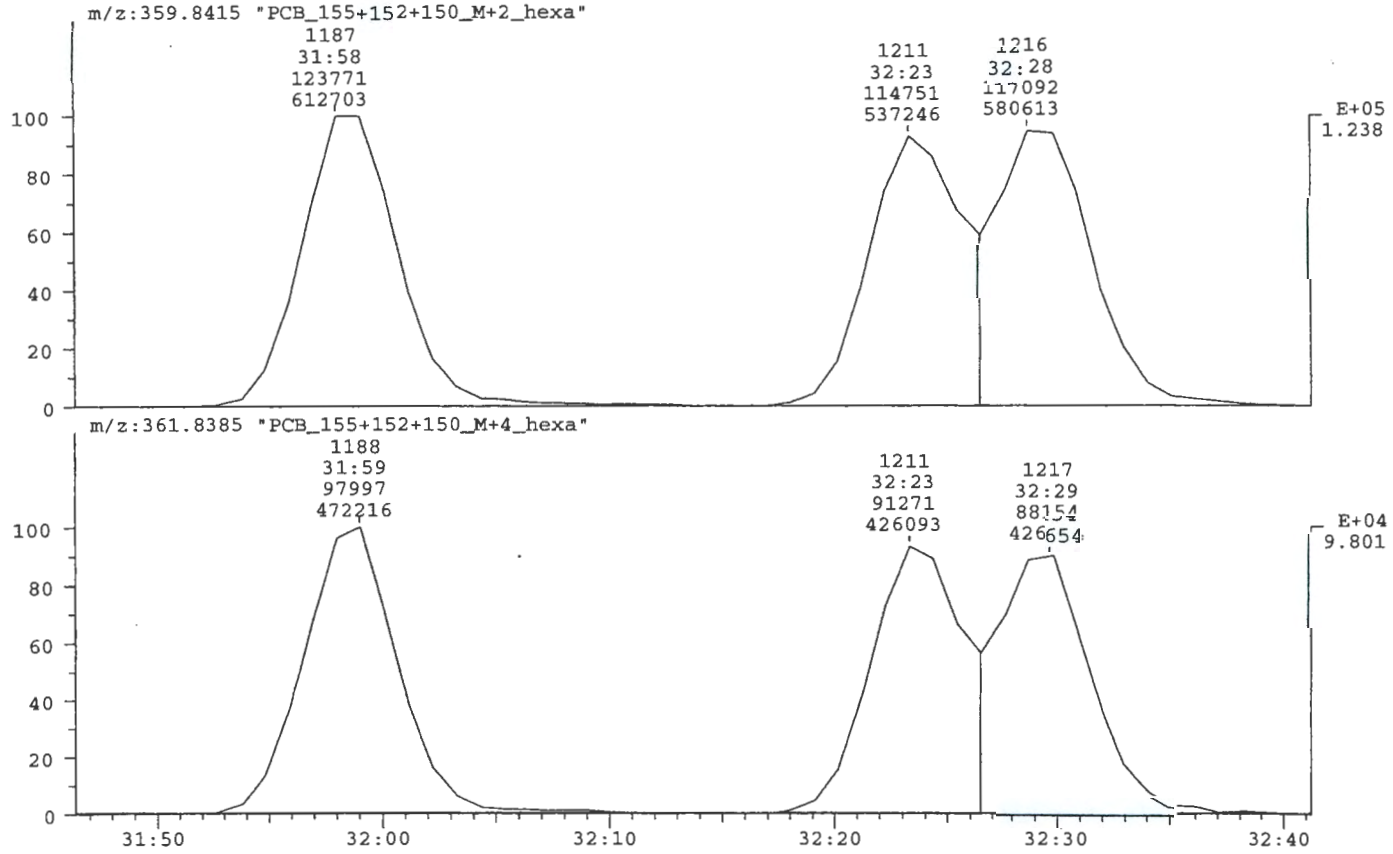
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  45:38      1960
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1795 > 2115           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 9                Label :  -3, 3.0
Disp:  Height  Area
```



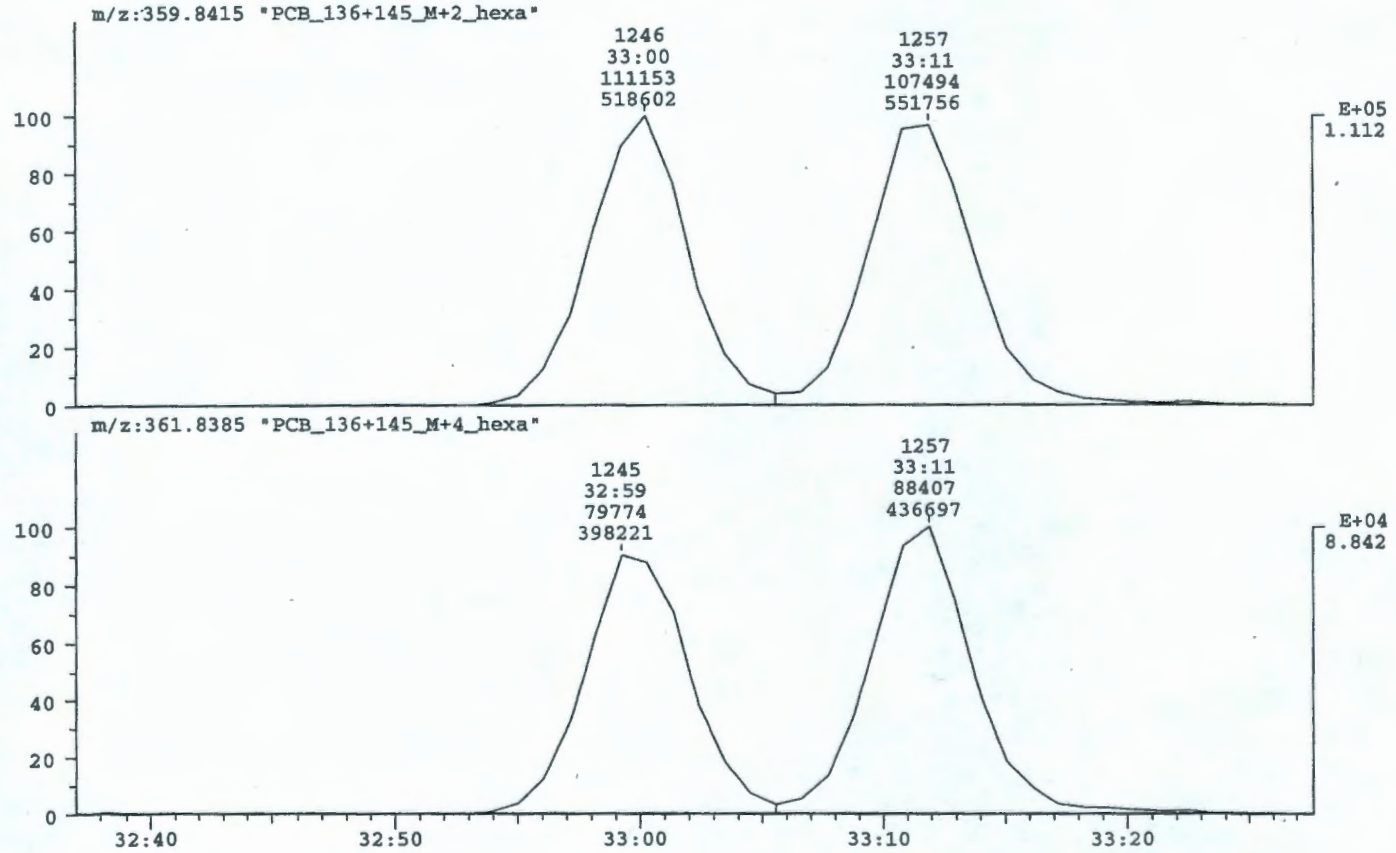
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  44:41      1906
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1876 > 1916           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
```



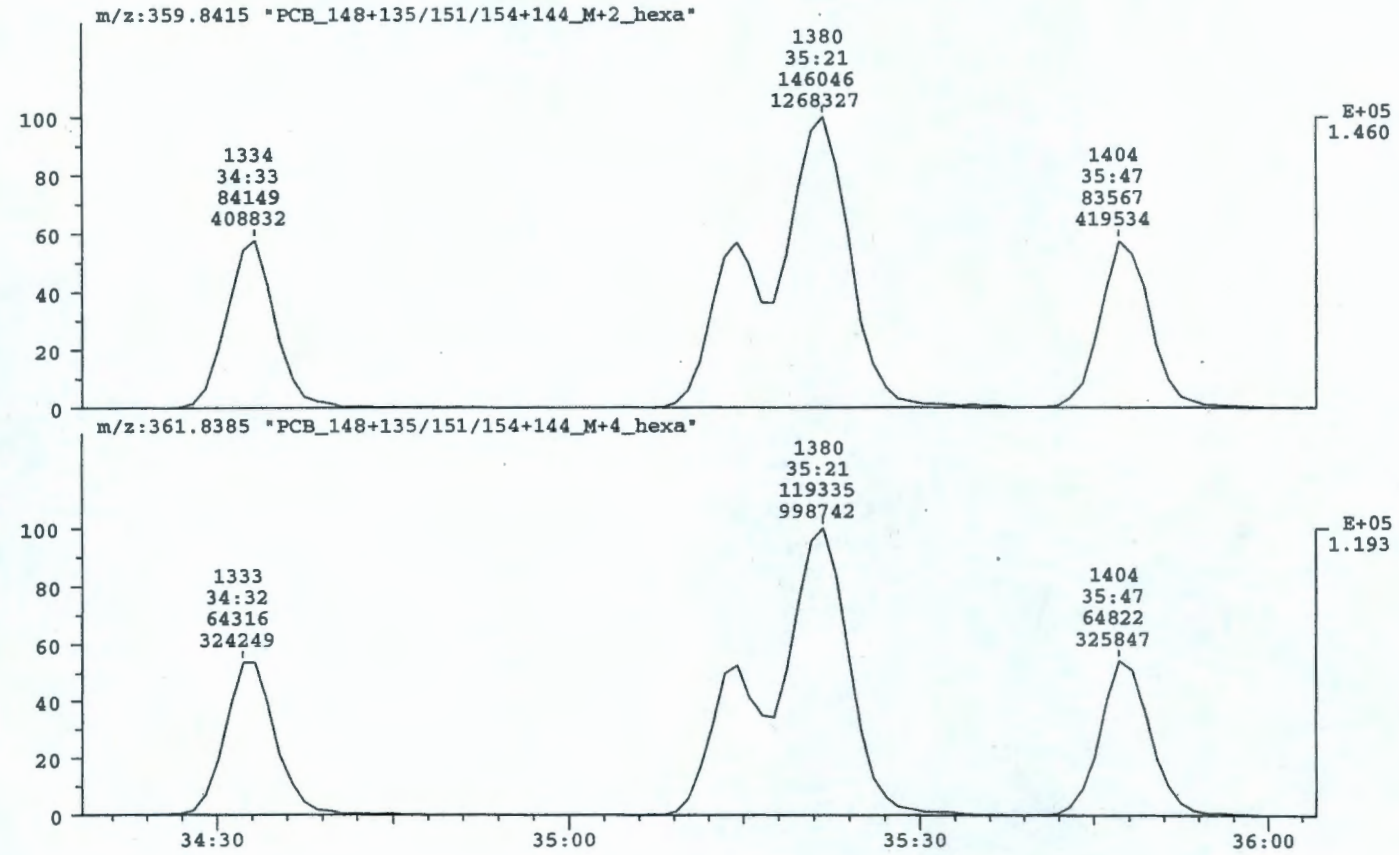
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  32:20      1208
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1176 > 1228           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



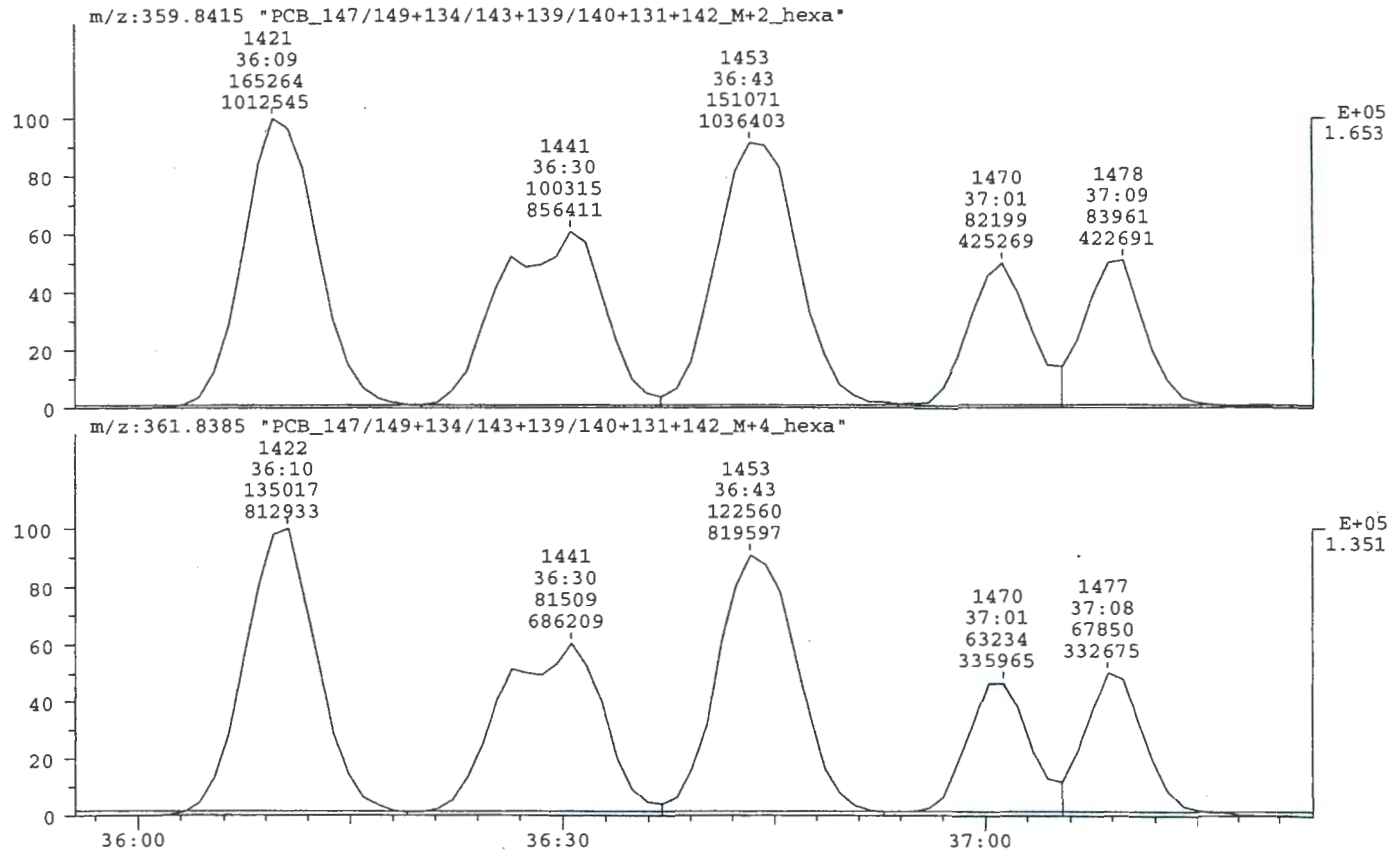
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  33:08      1254
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1224 > 1272          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



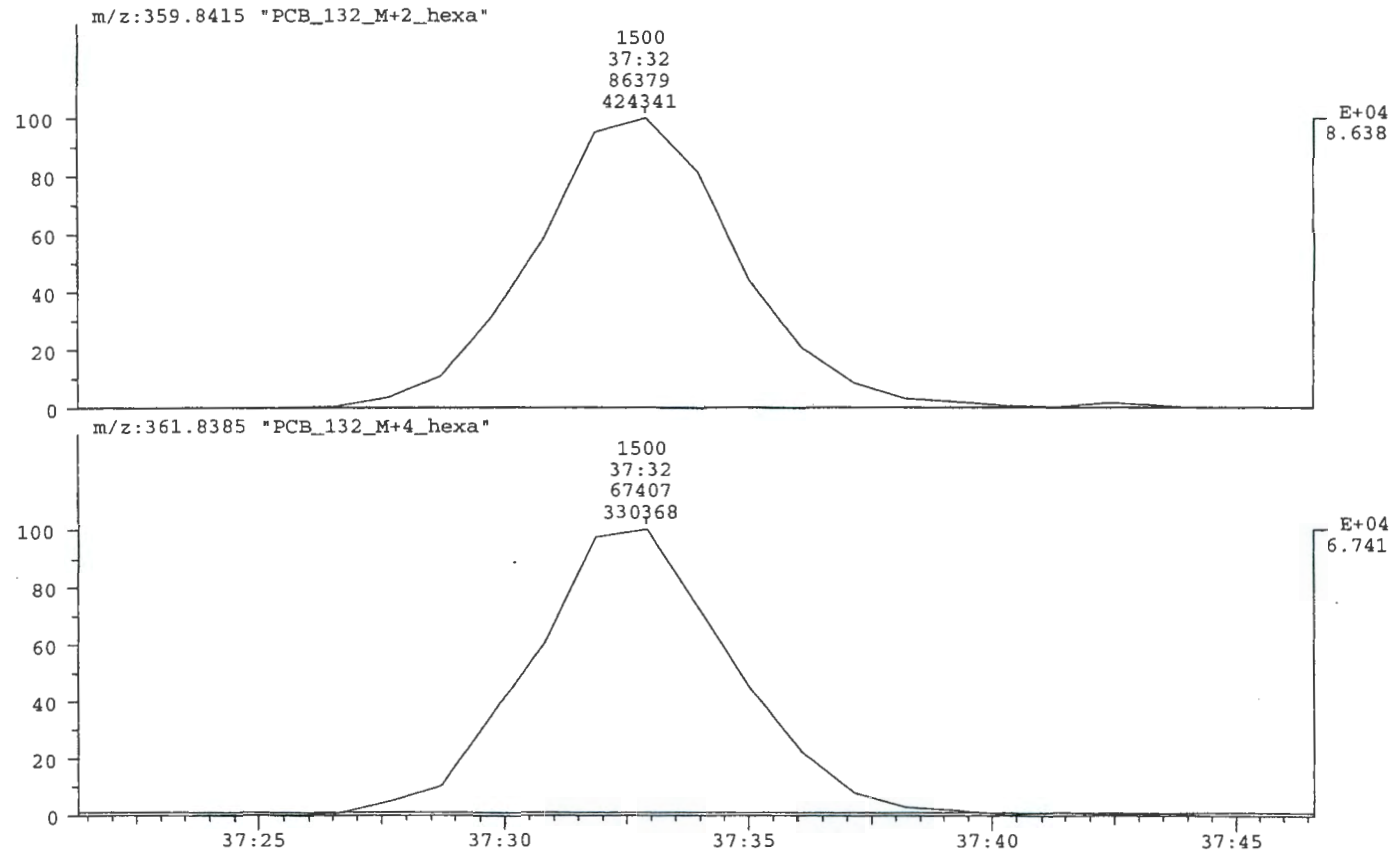
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  35:21      1380
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1320 > 1416          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 12              Label :  -3, 3.0
Disp:  Height  Area
```



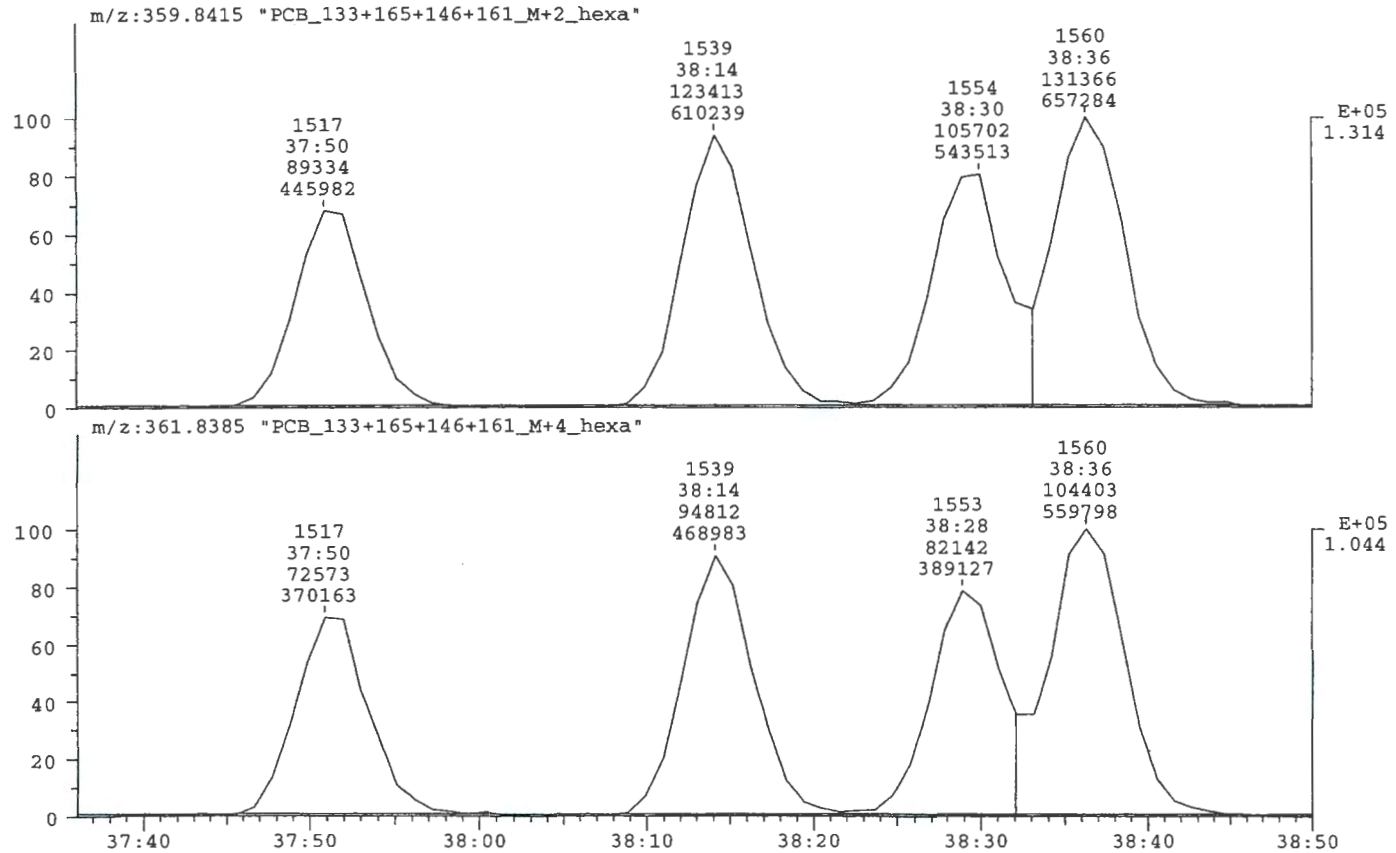
```
CHRO:  a070927s1                              27-Sep-07   Elapse:  36:46      1456
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1412 > 1491         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5              Label :  -3, 3.0
Disp:  Height  Area
```



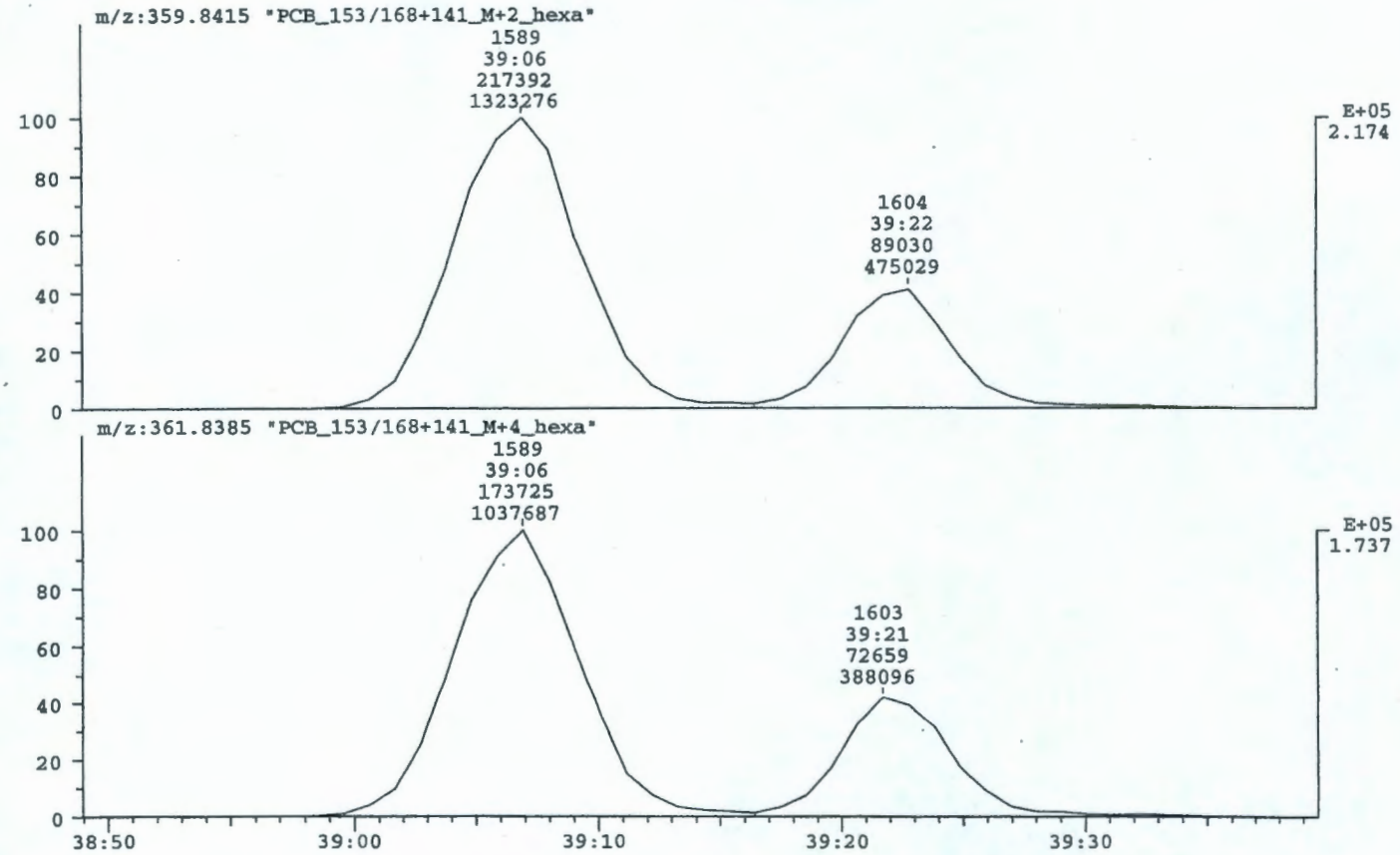
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  37:34       1501
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00    2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1489 > 1513           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5                Label :  -3, 3.0
Disp:  Height  Area
```



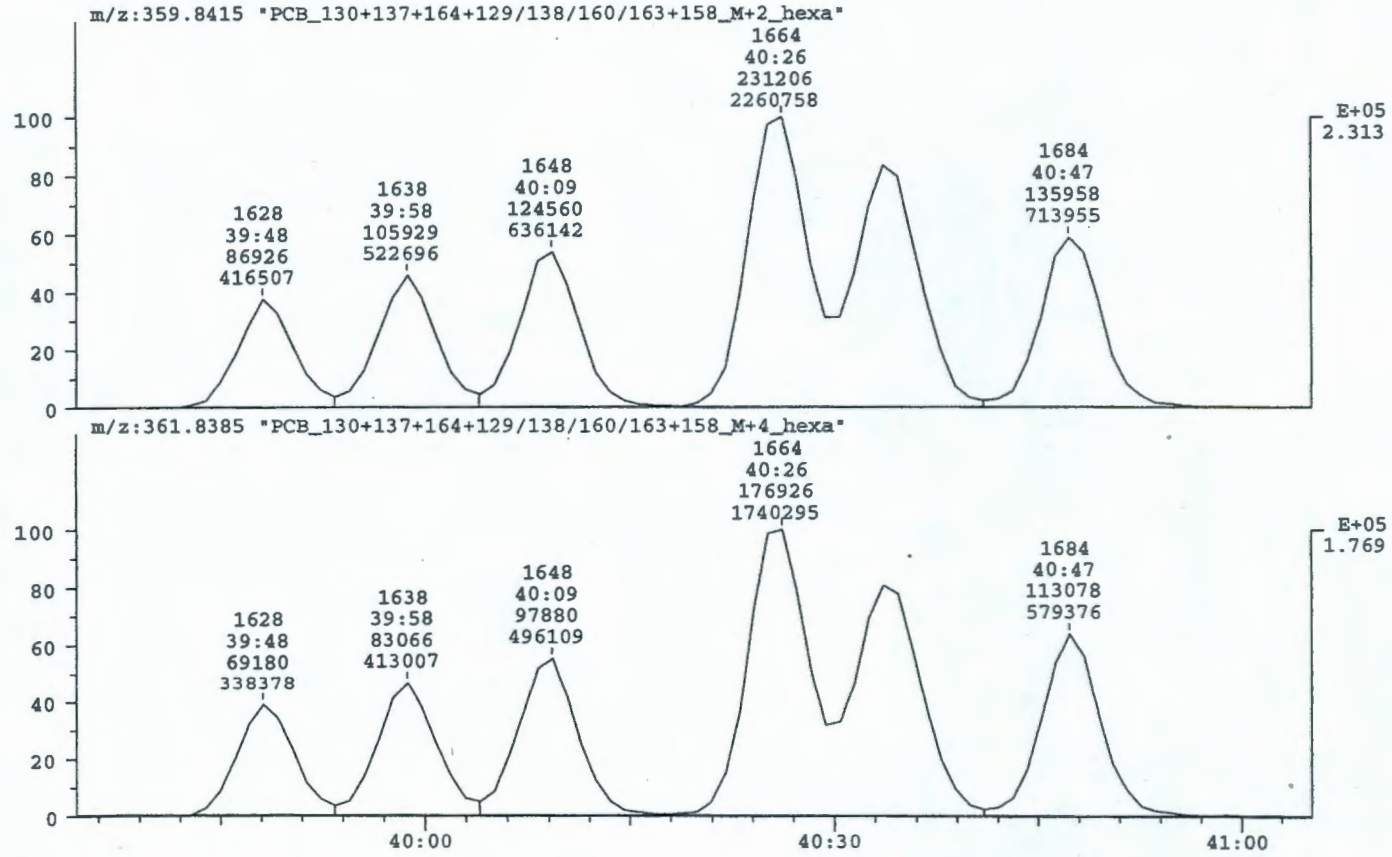
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  38:21      1546
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1503 > 1573          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



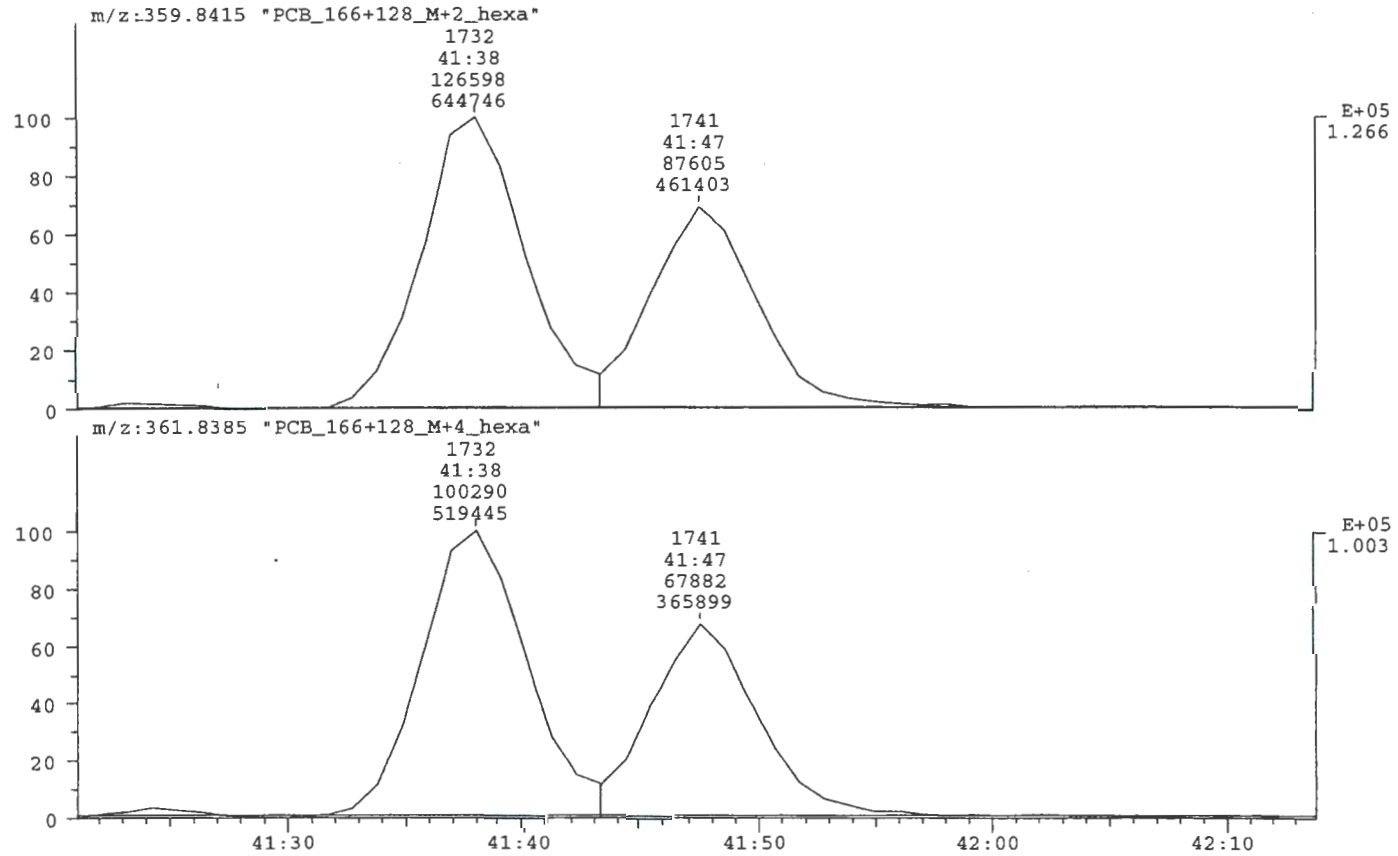
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  39:20      1602
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1572 > 1620          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



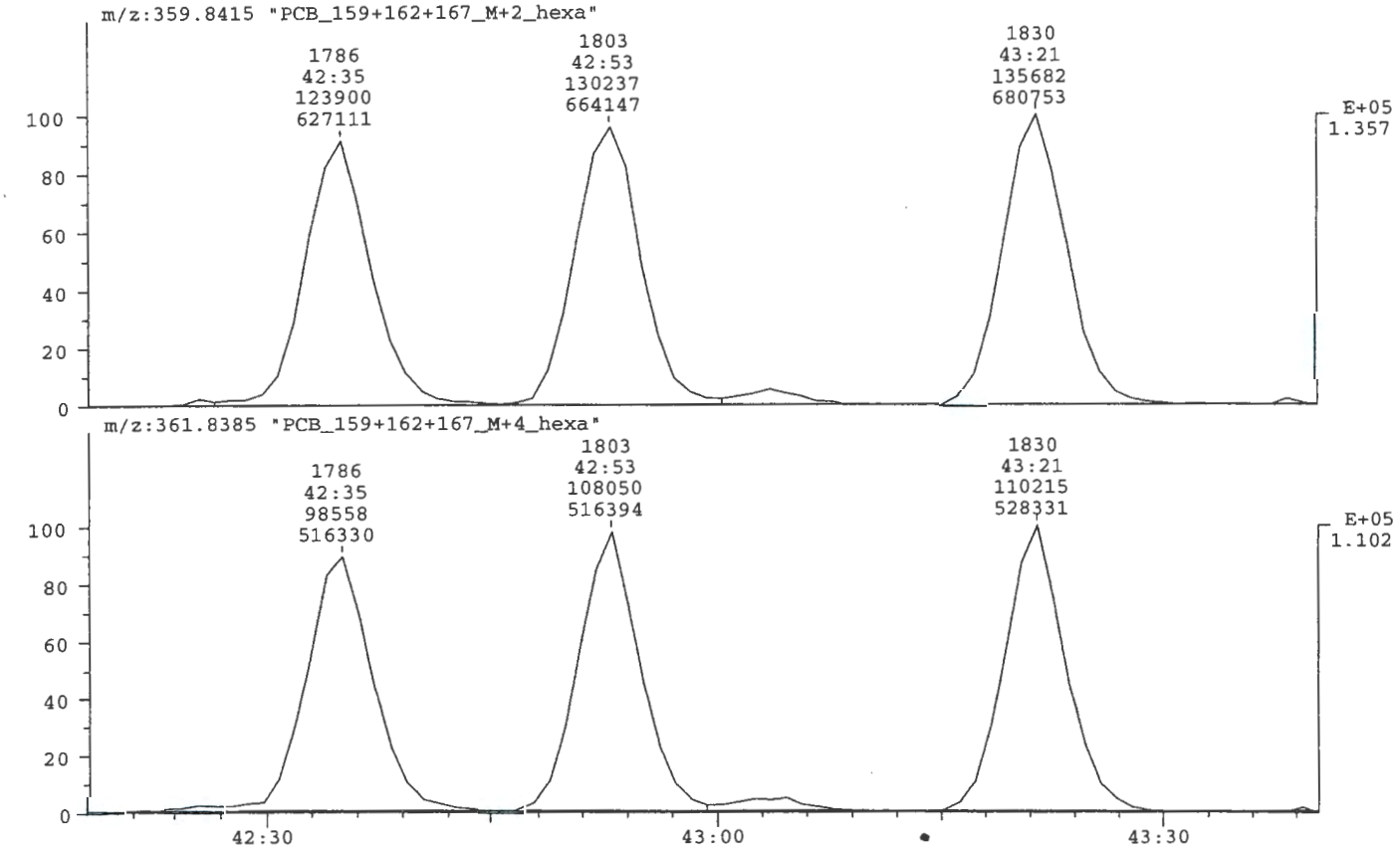
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  40:23      1661
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1615 > 1701           Masses:  181 > 510
Area:  5, 0.50, 0      Baseline  :   100, 7                Label :  -3, 3.0
Disp:  Height  Area
```



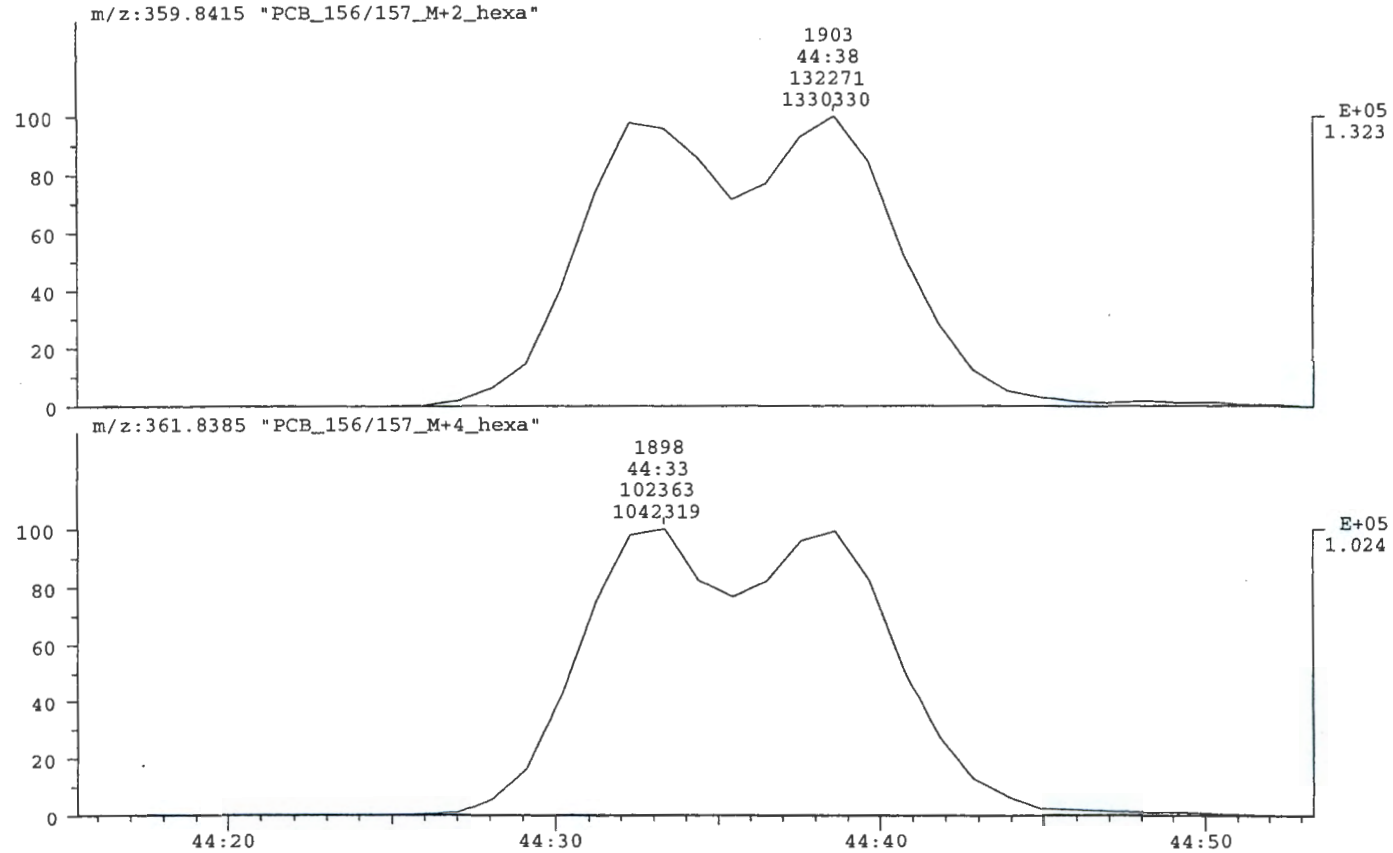
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  41:47      1741
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1716 > 1766           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```



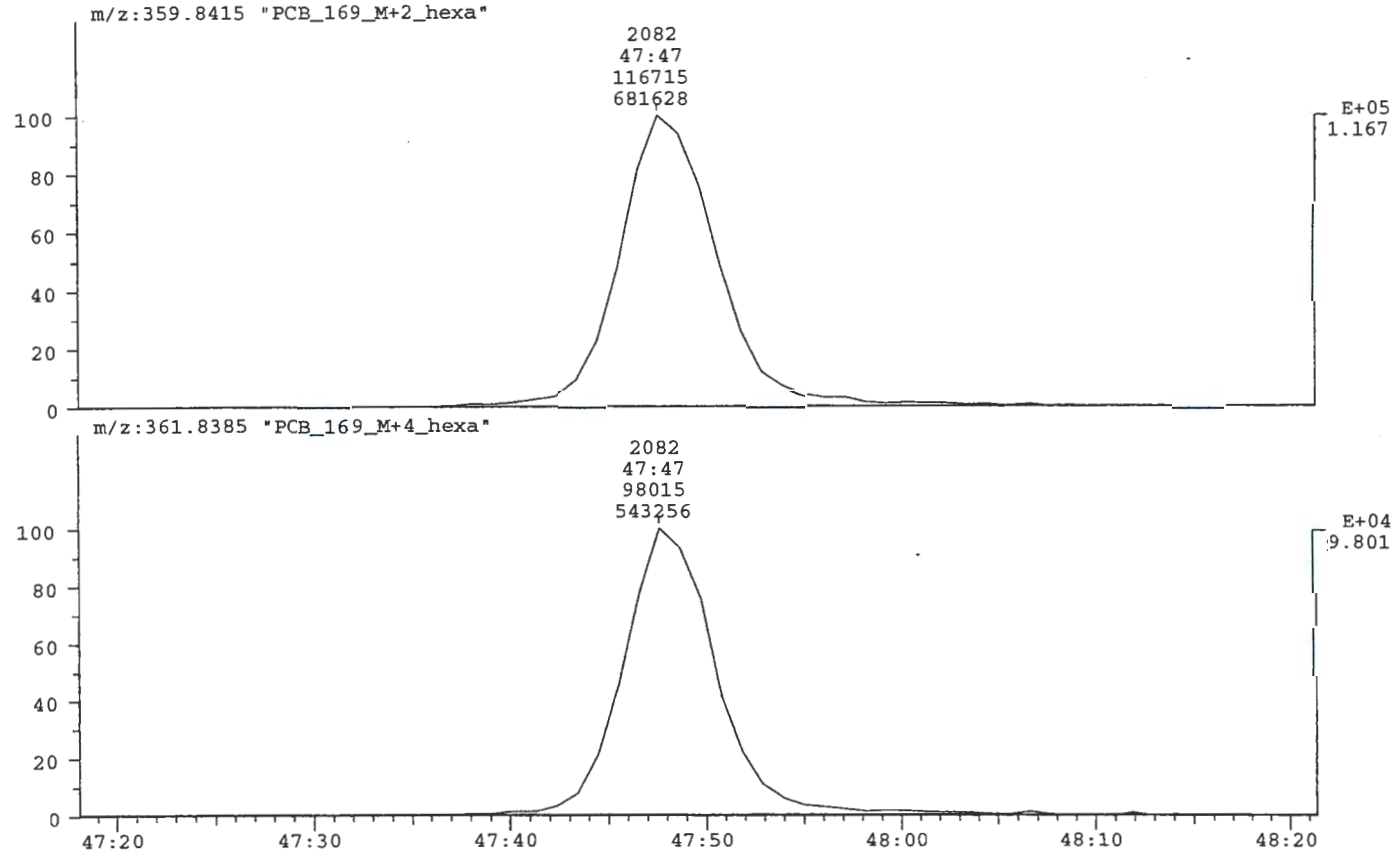
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  43:05      1815
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1770 > 1848          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



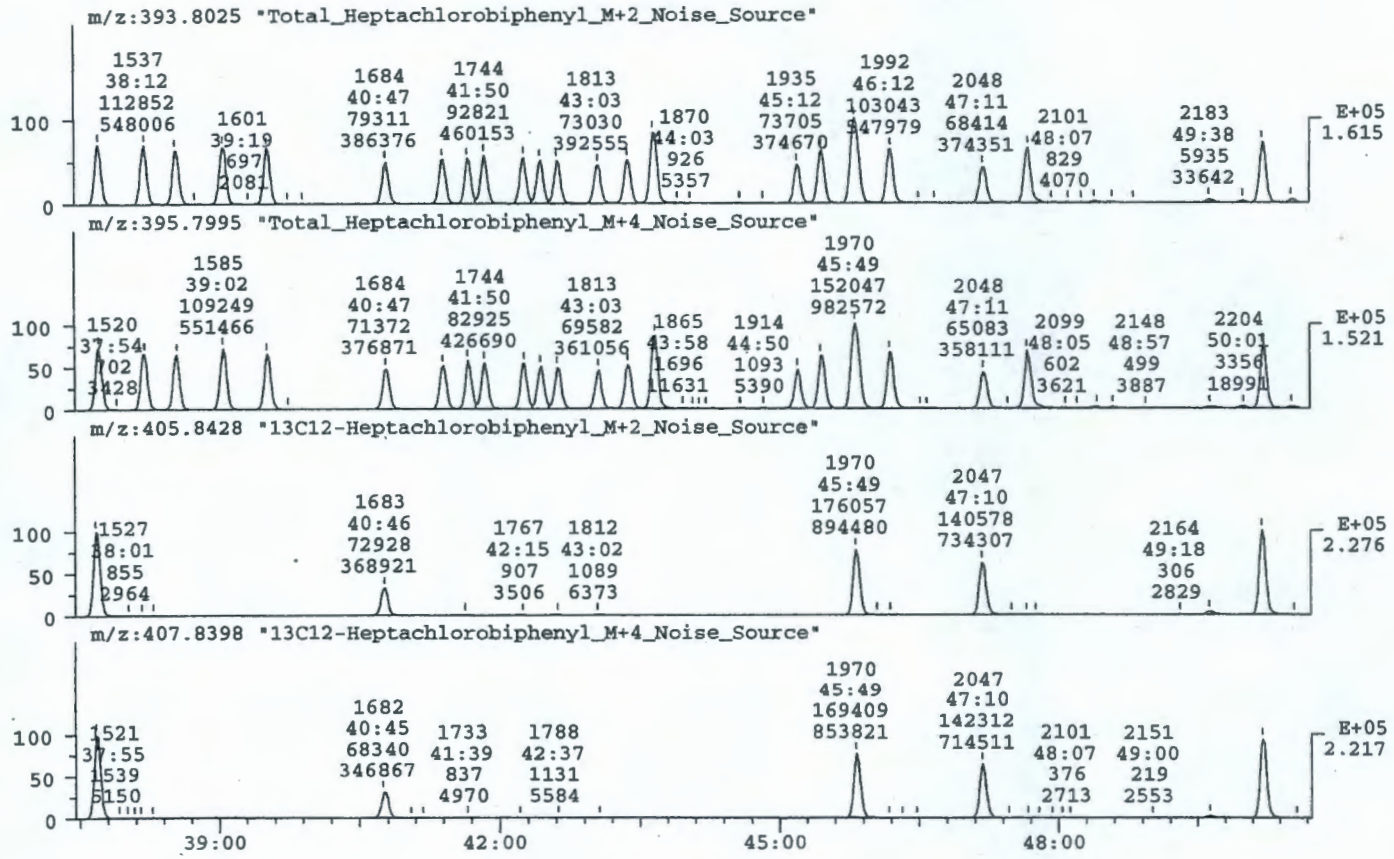
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  44:36      1901
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1881 > 1917          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 9               Label :  -3, 3.0
Disp:  Height  Area
```



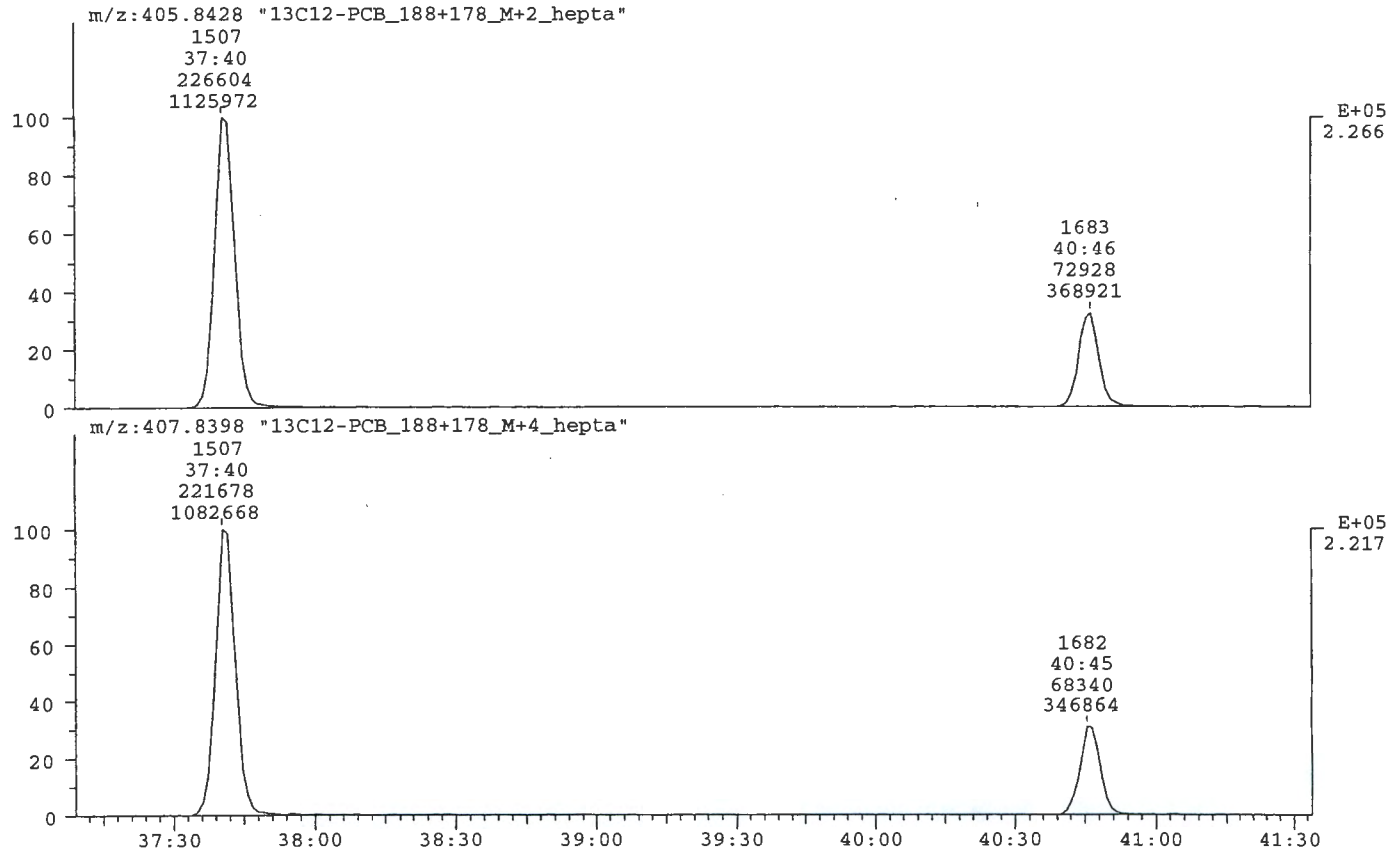
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  47:49      2084
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   2054 > 2114           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



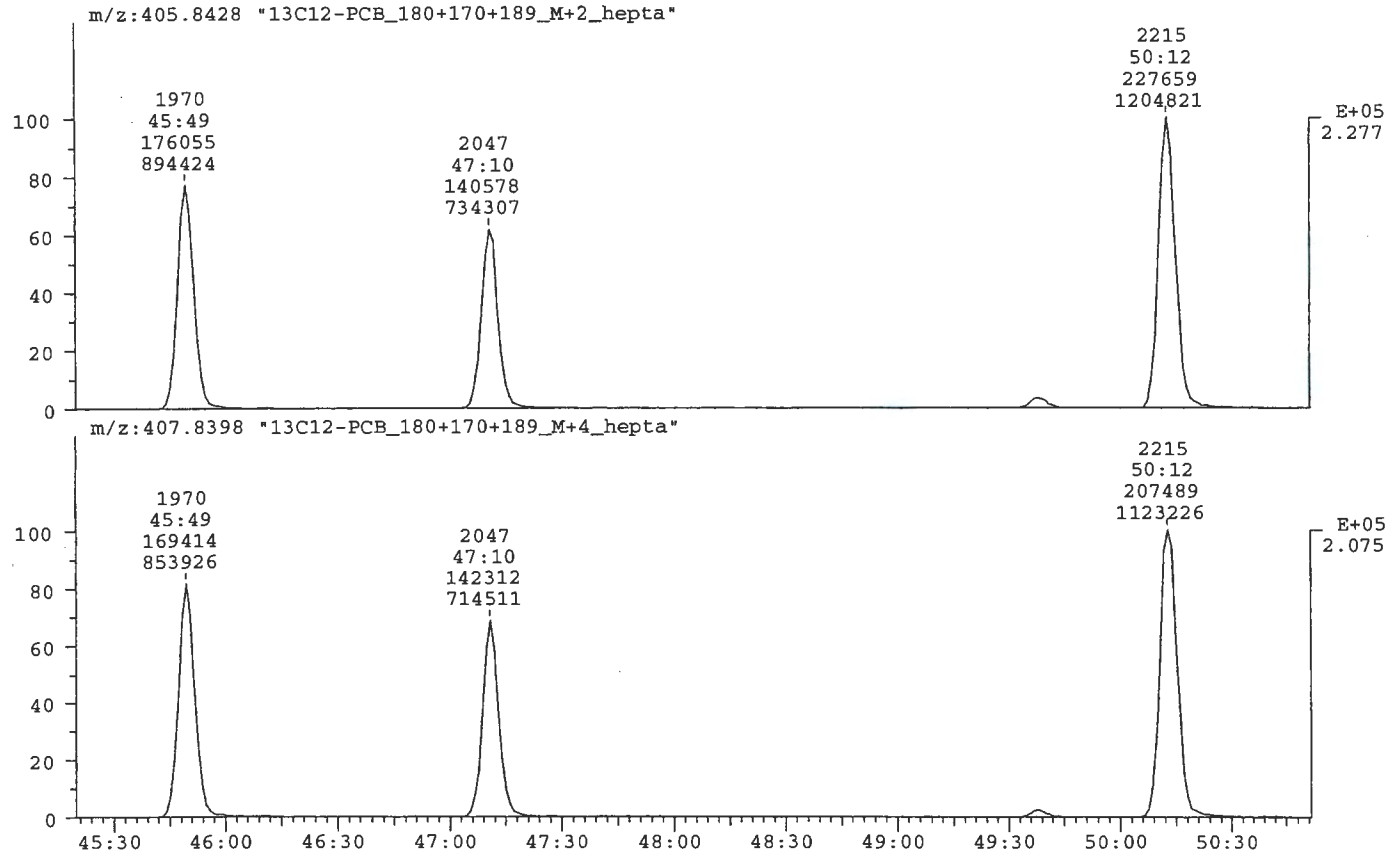
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  44:05      1872
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1494 > 2246          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



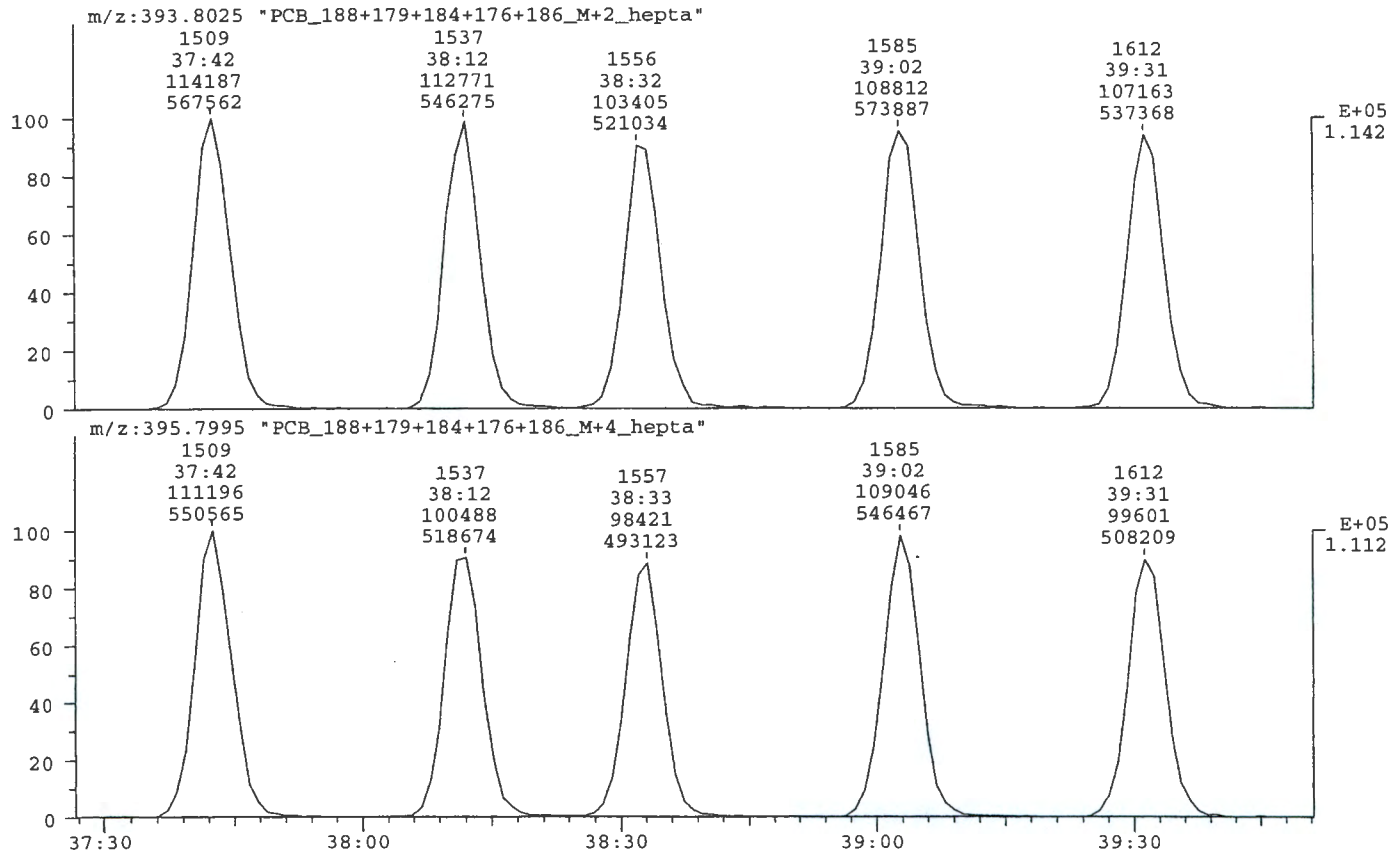
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  39:20      1602
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1477 > 1728           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



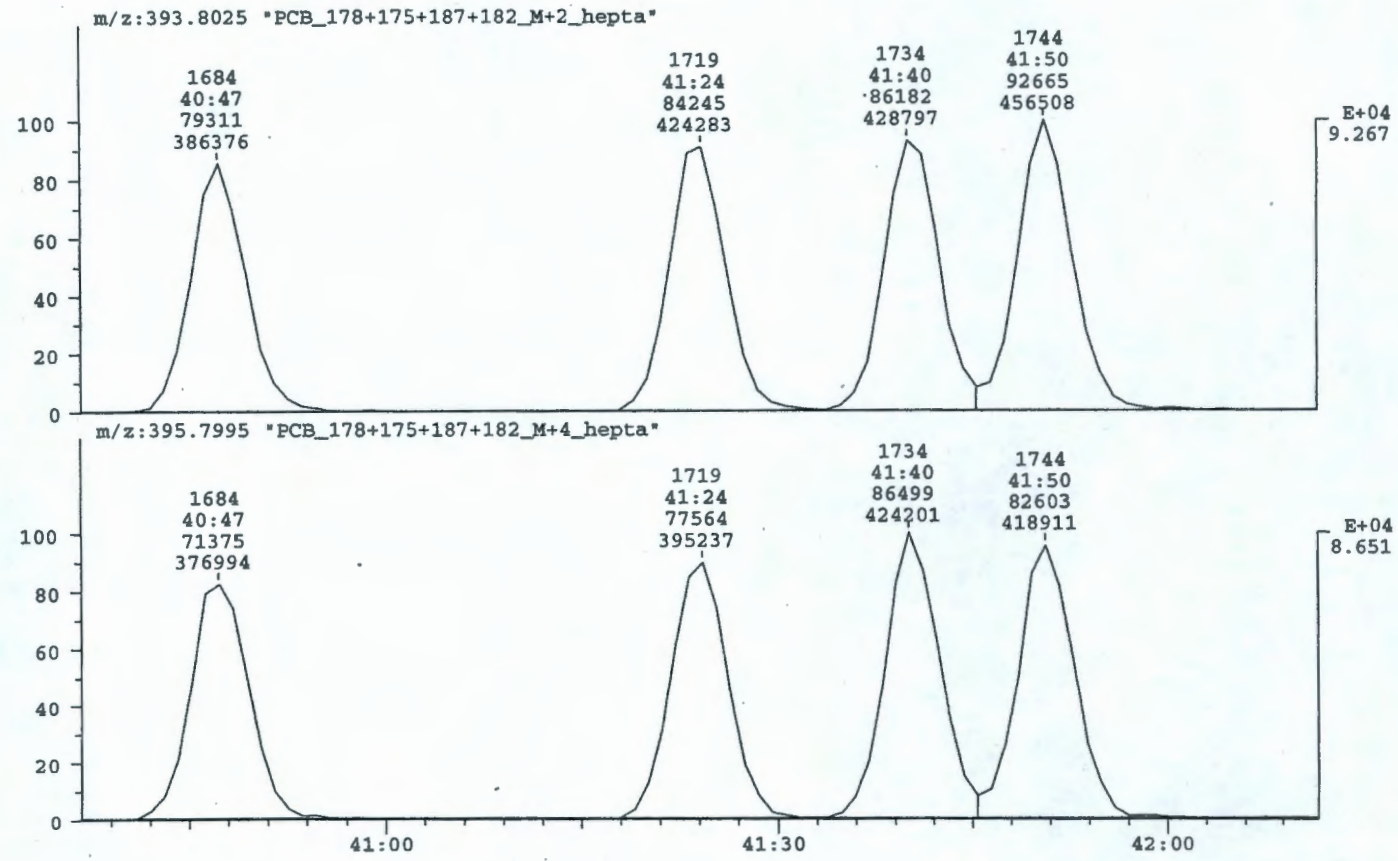
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  48:08      2102
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1942 > 2252           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



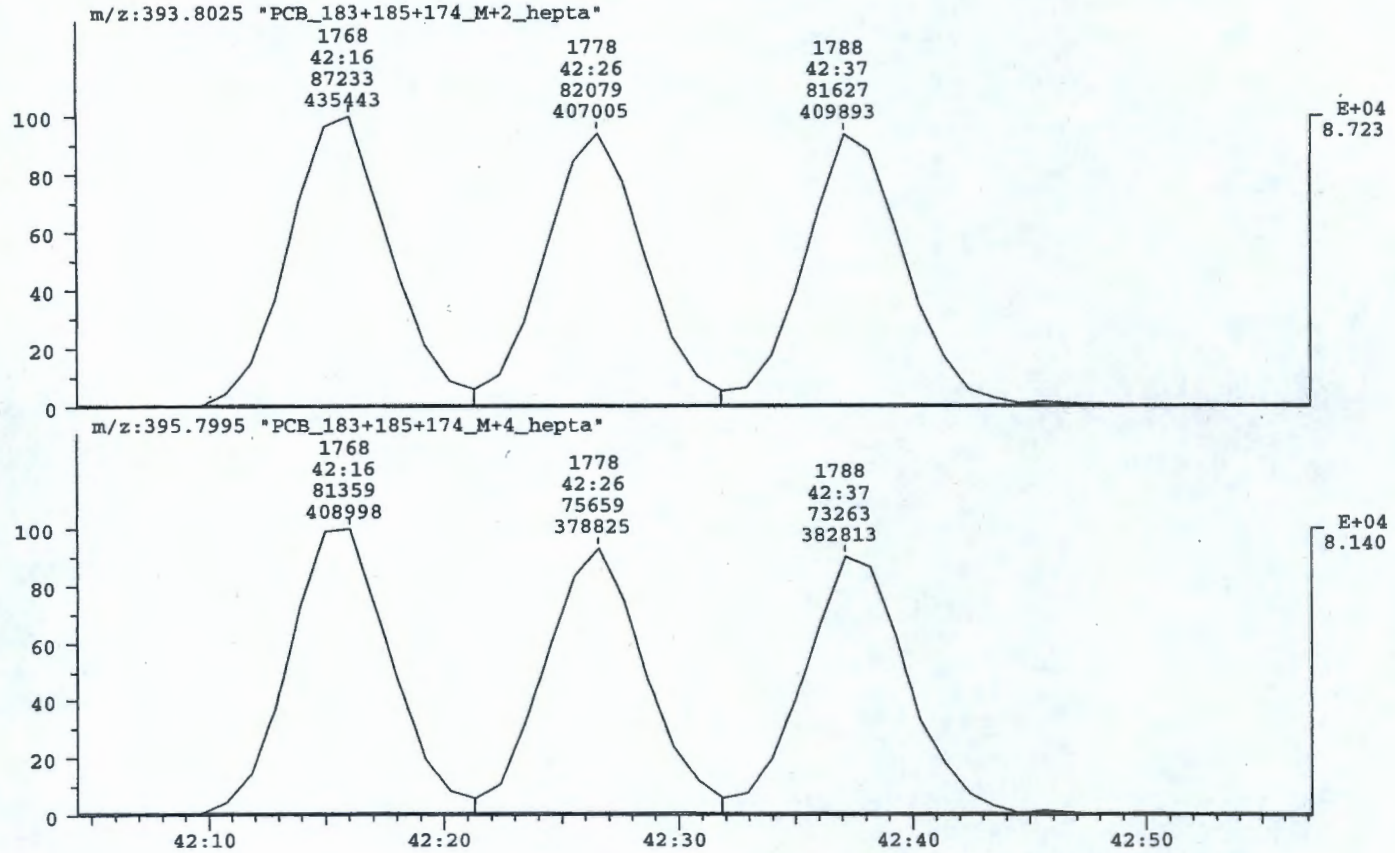
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  38:42      1566
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1494 > 1631          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



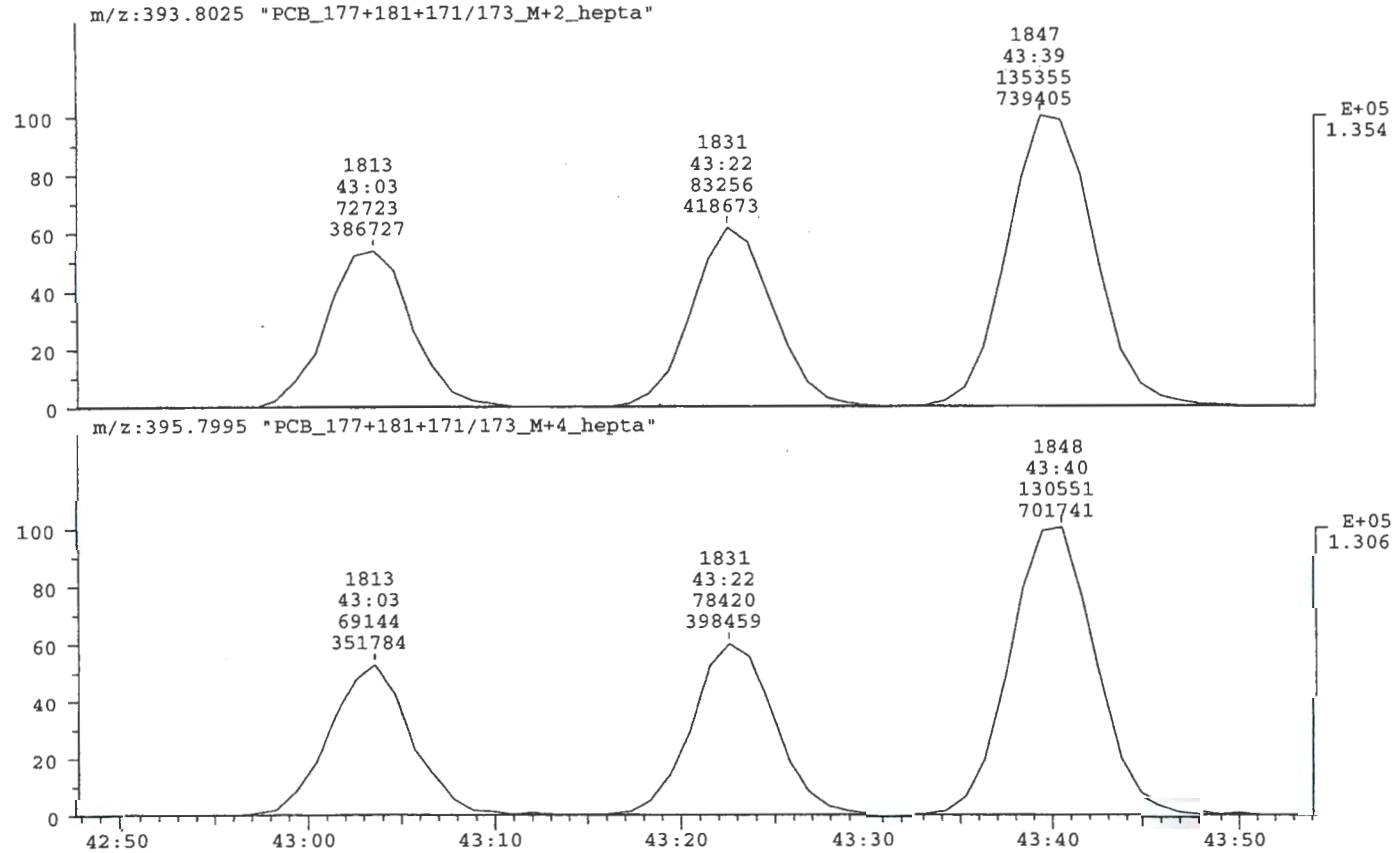
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  41:29      1724
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1674 > 1764          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



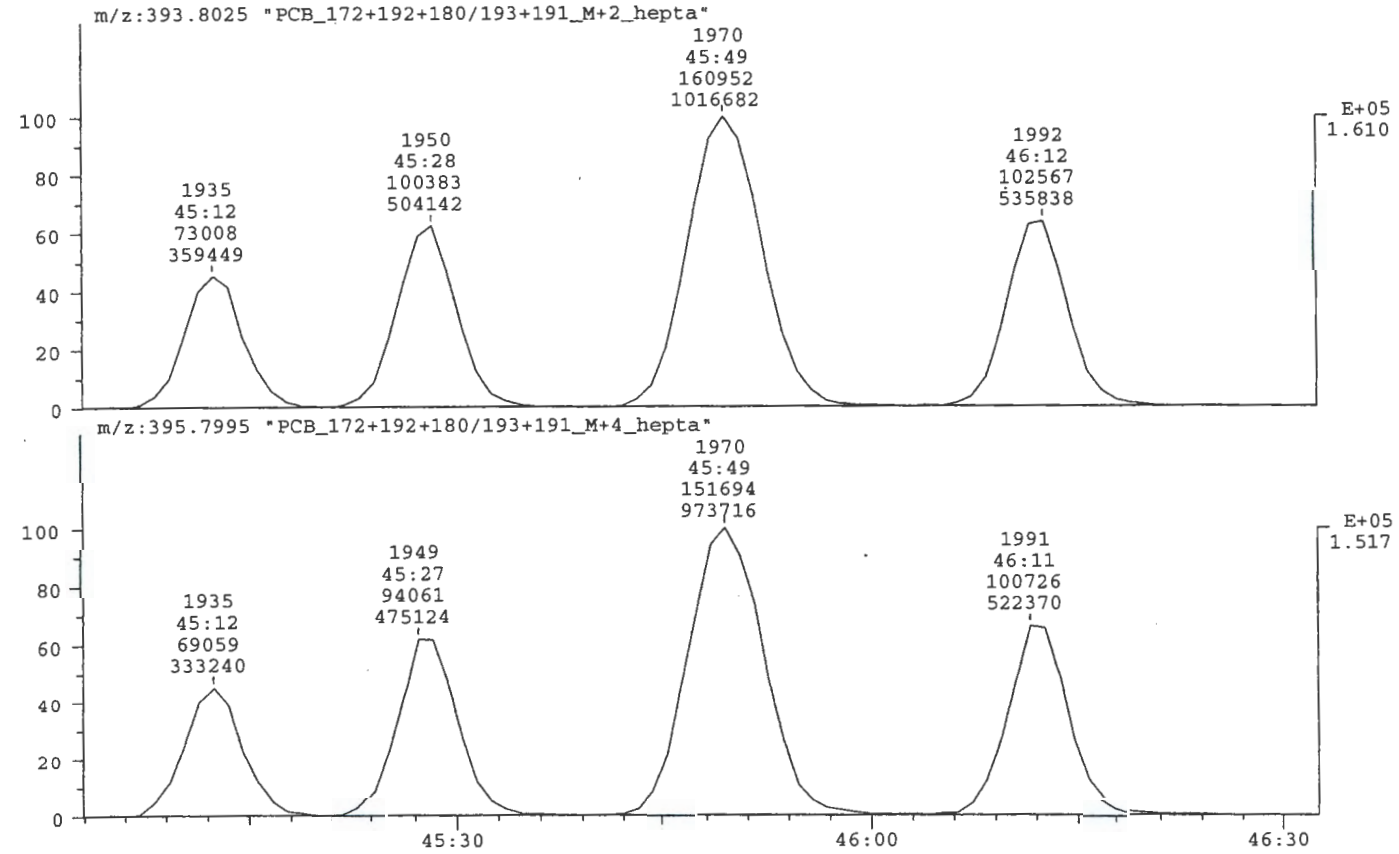
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  42:41      1792
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1757 > 1807          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



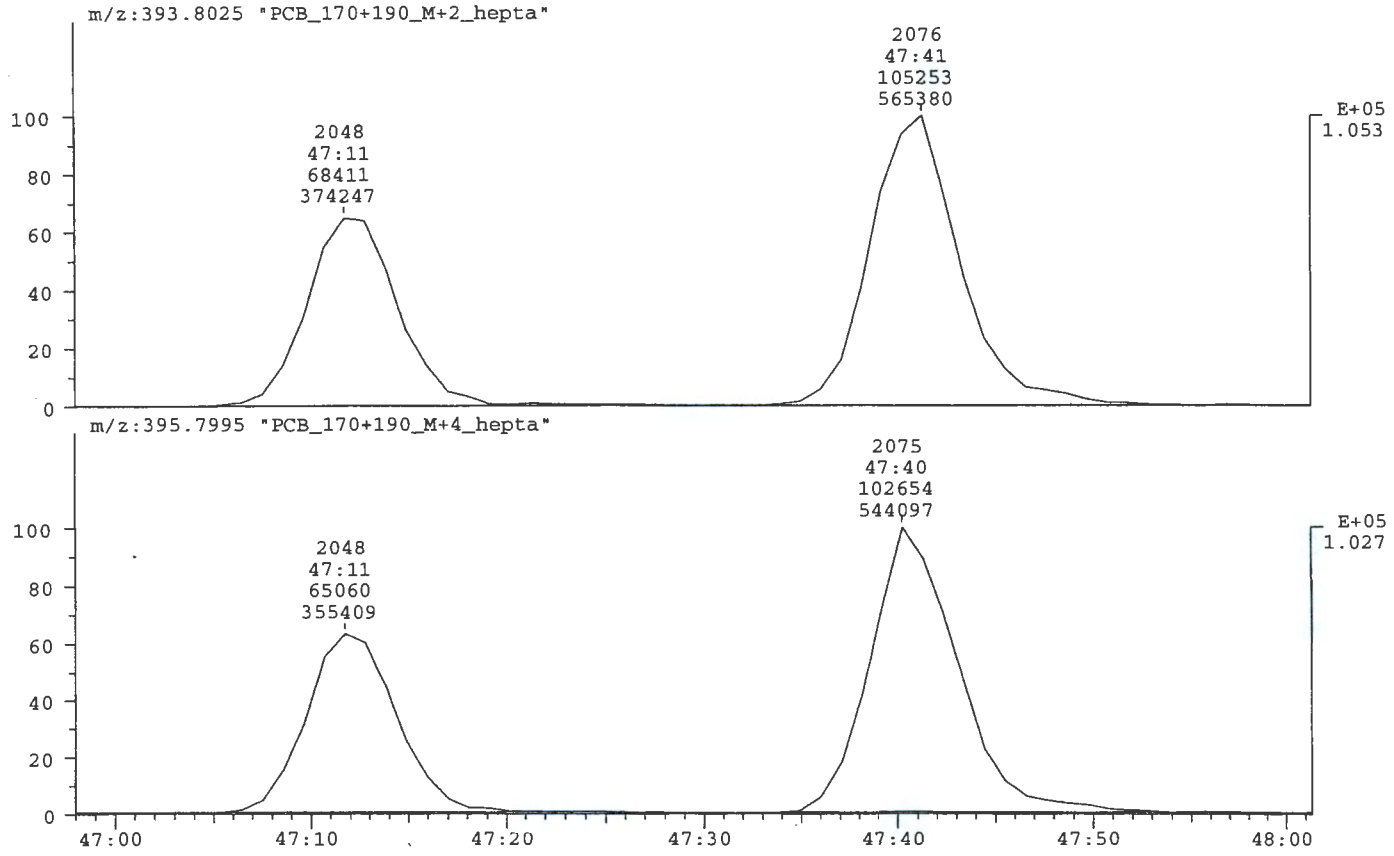
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  43:27      1836
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1798 > 1861          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



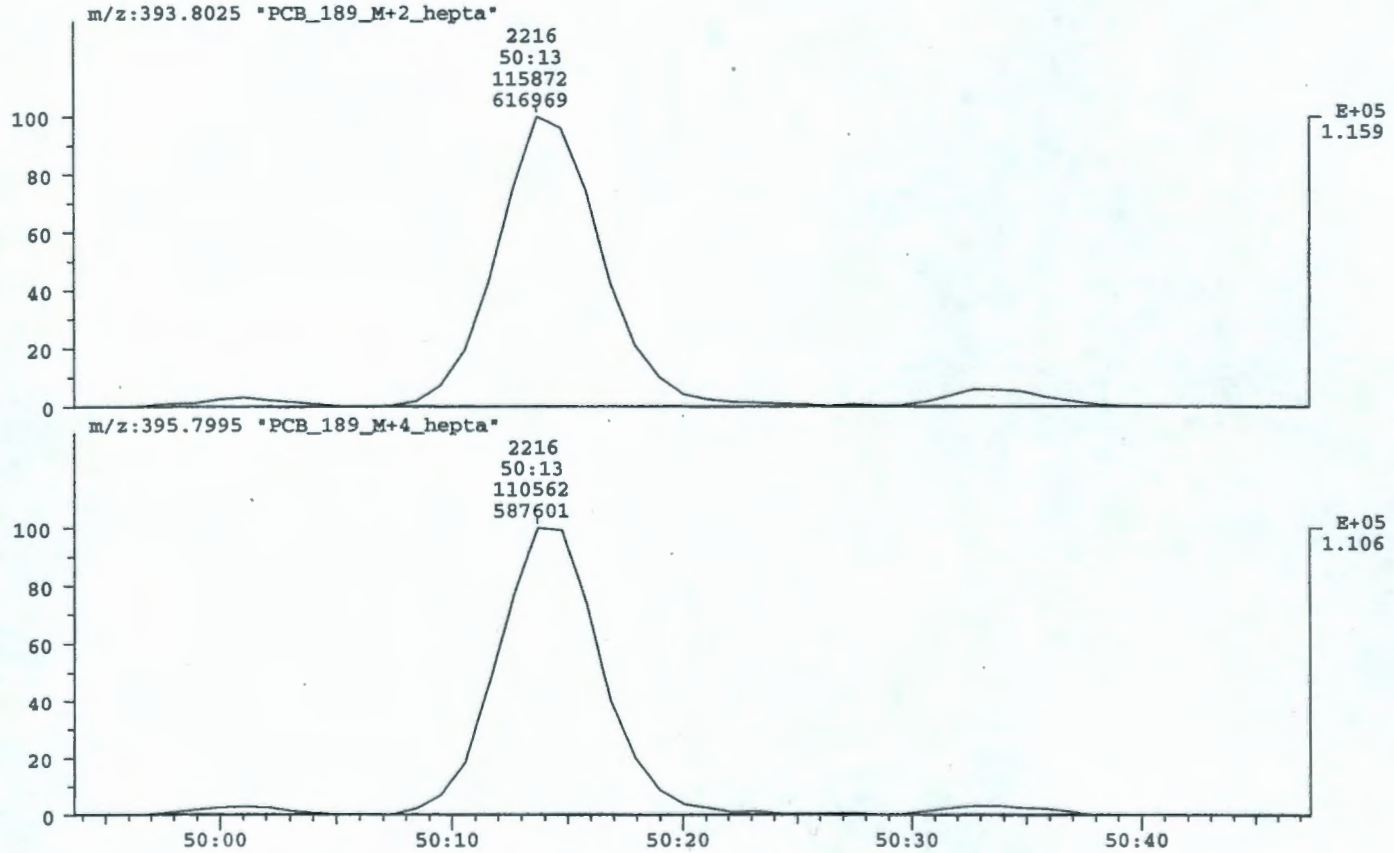
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  45:55      1976
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1926 > 2011           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



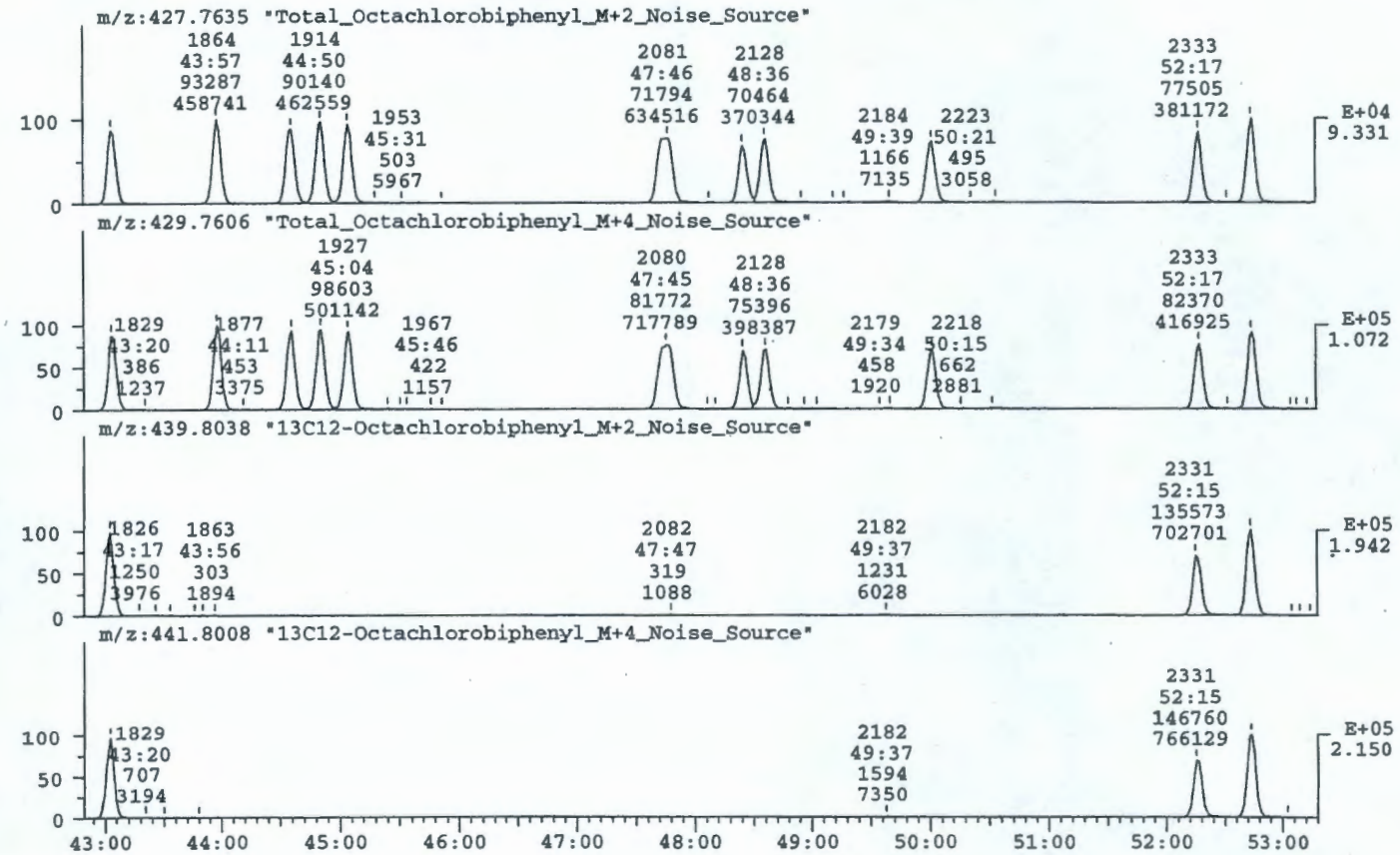
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  47:34      2070
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2035 > 2095          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



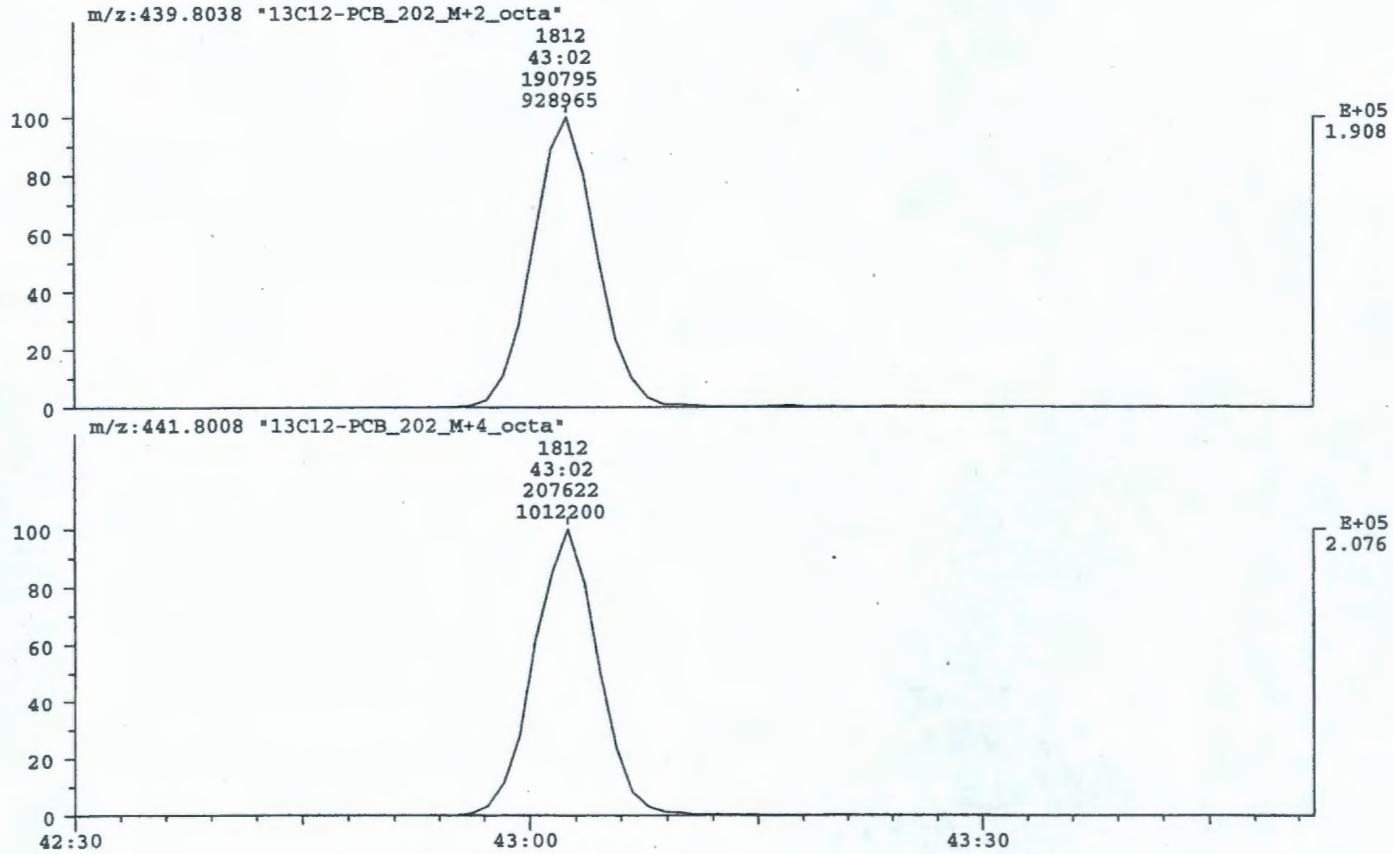
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  50:19      2221
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   2197 > 2248            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



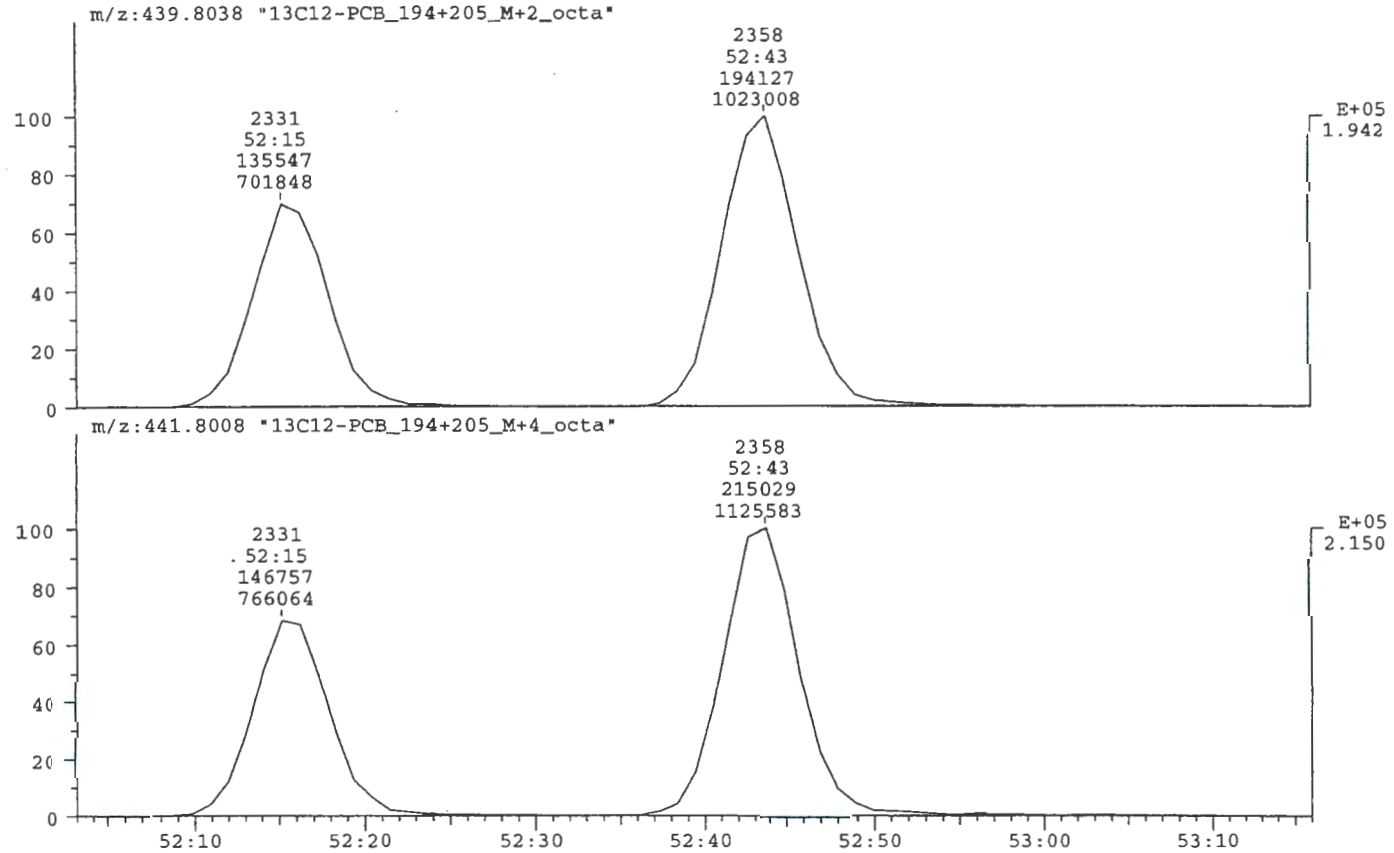
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  48:03      2097
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1799 > 2391          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



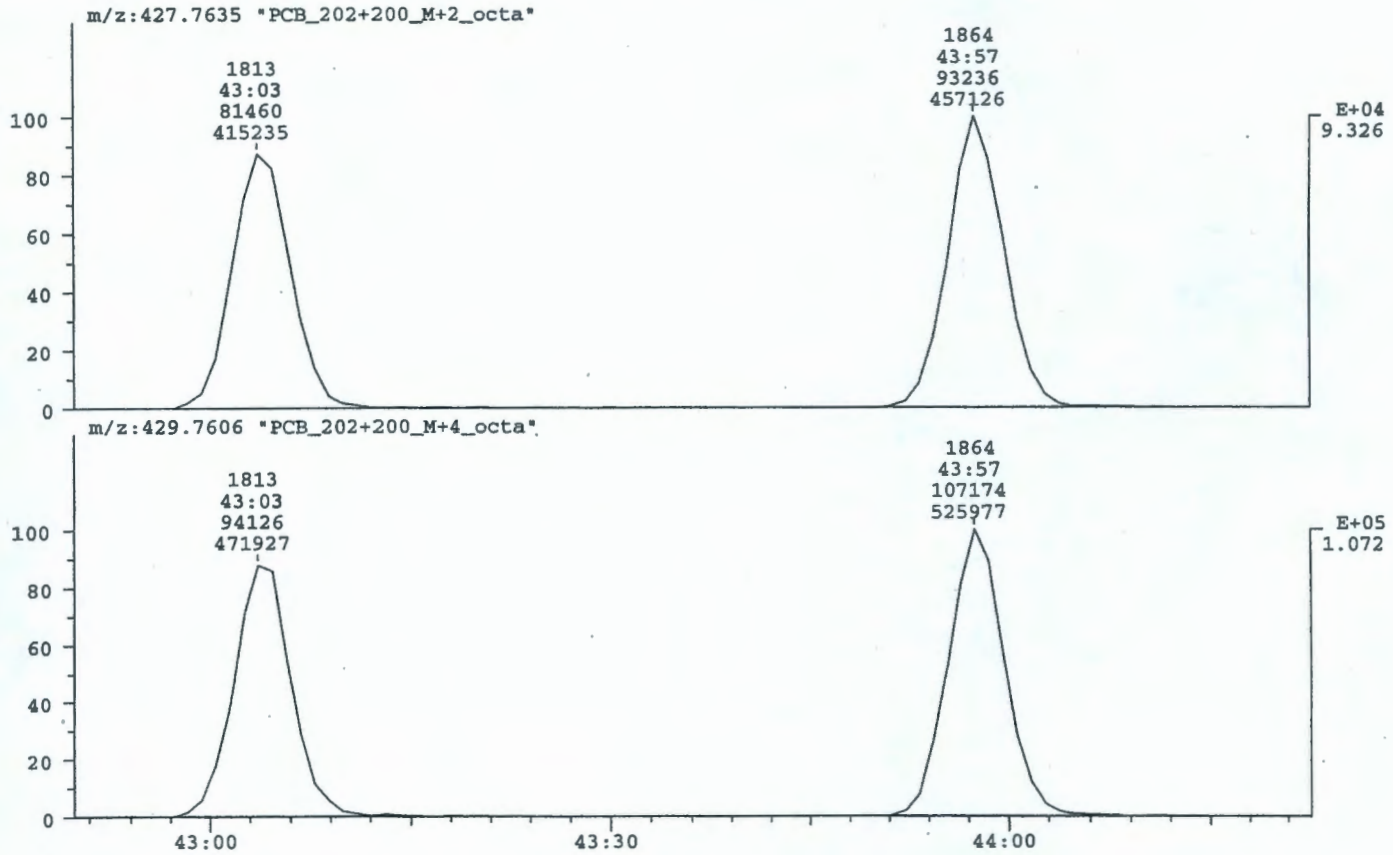
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  43:07      1817
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1781 > 1859           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



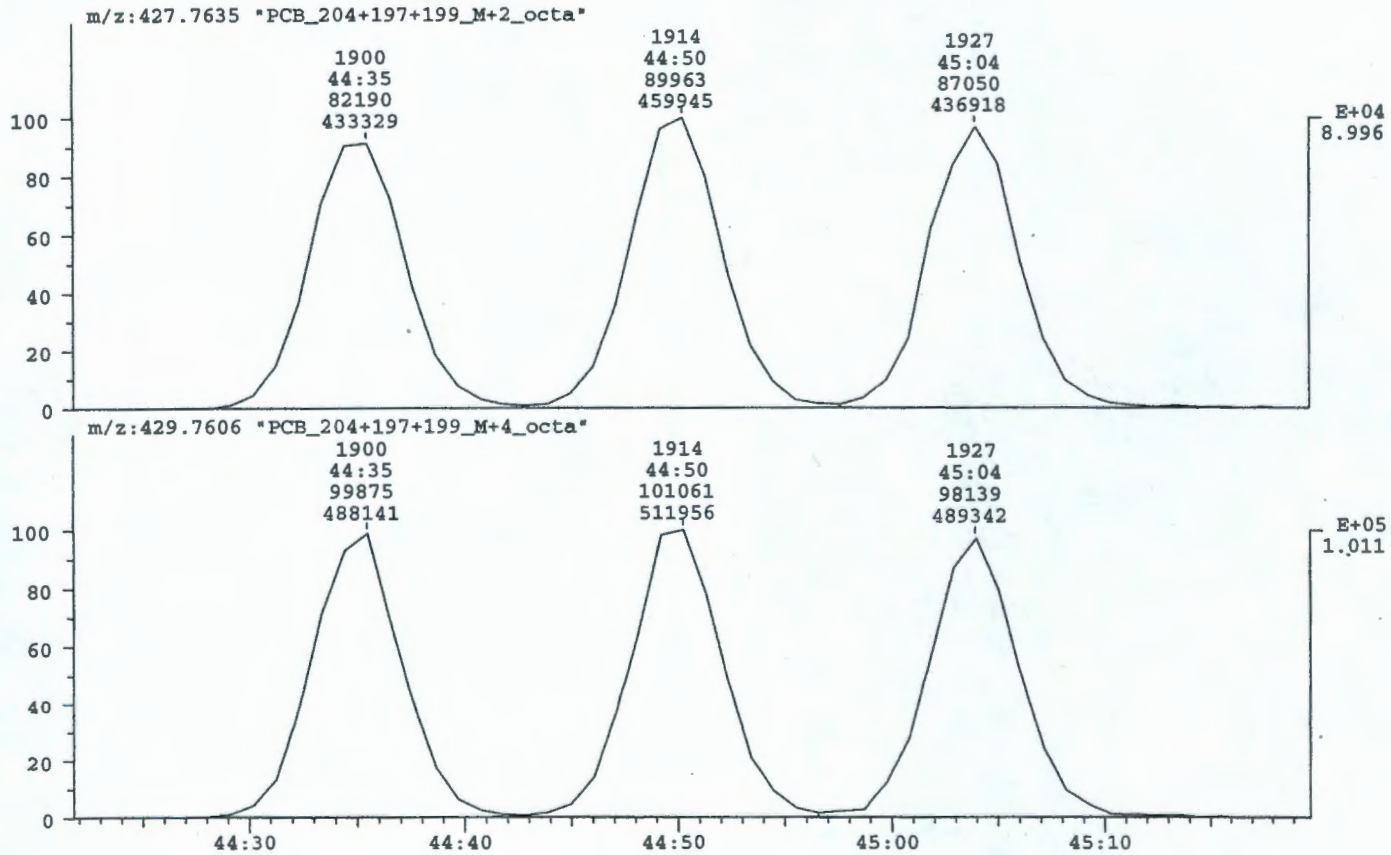
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  52:39      2354
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG           Client:  TA Knoxville                  Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   2320 > 2389            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



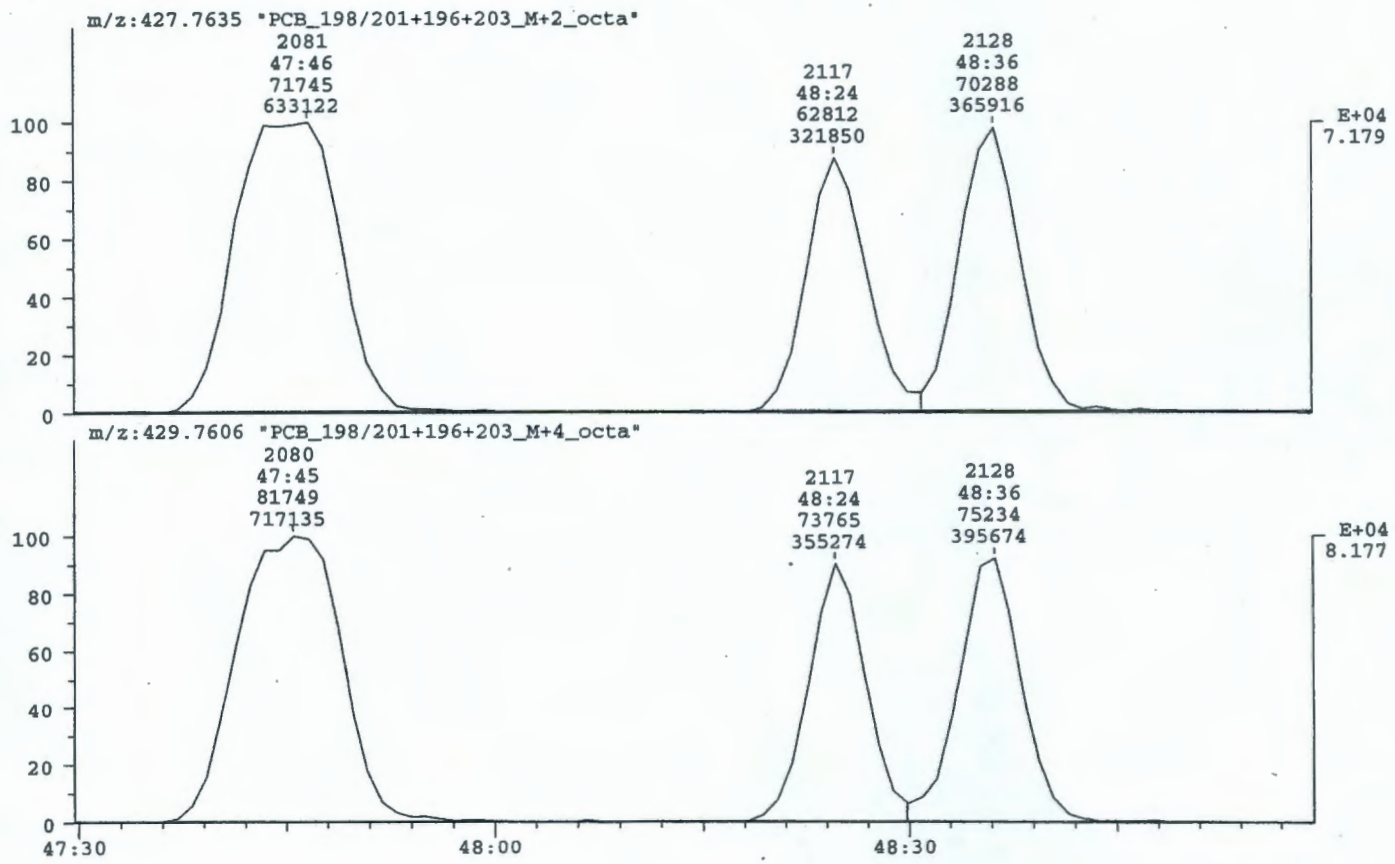
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  43:40      1848
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1800 > 1888           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



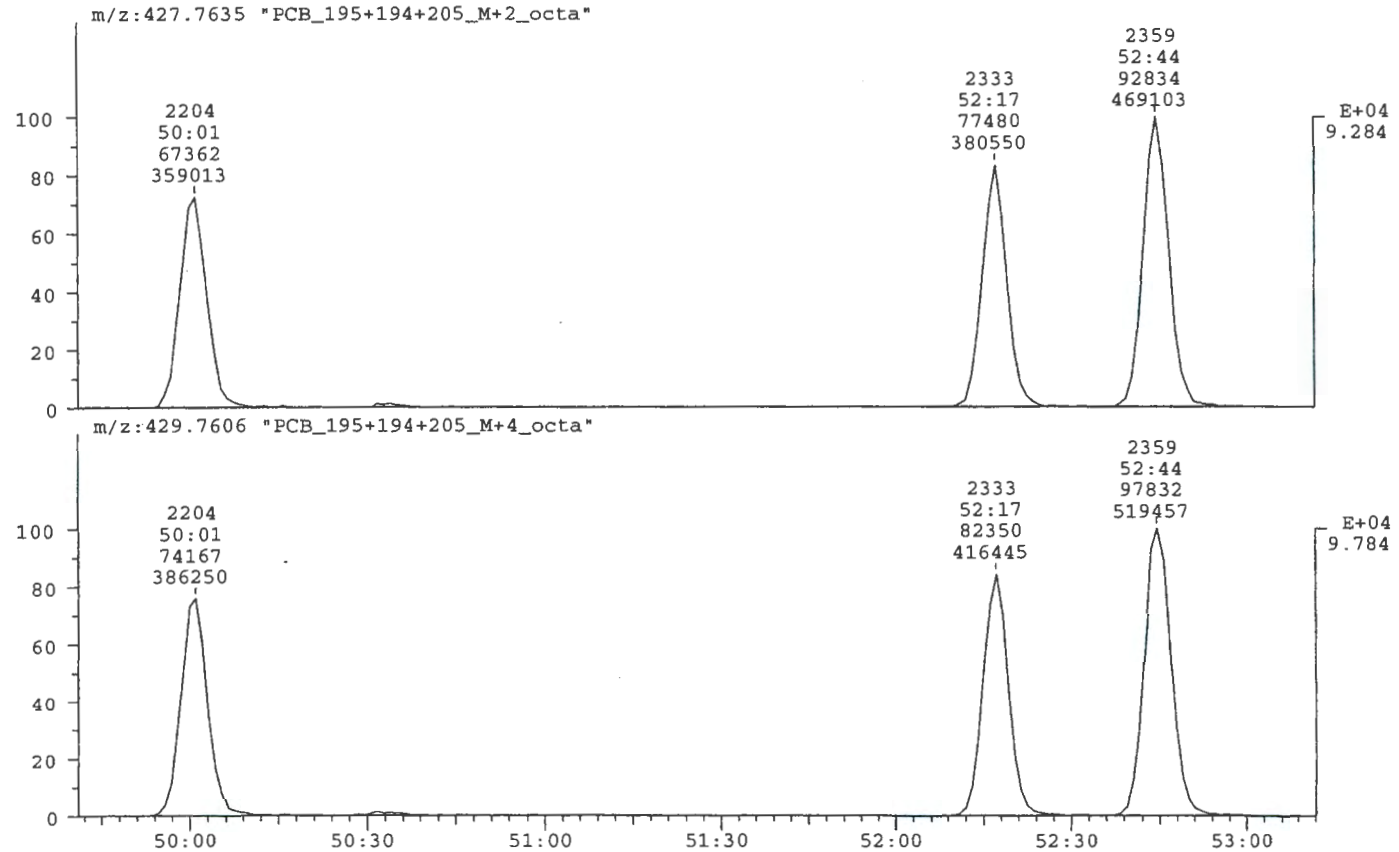
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  44:42      1907
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1887 > 1942          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



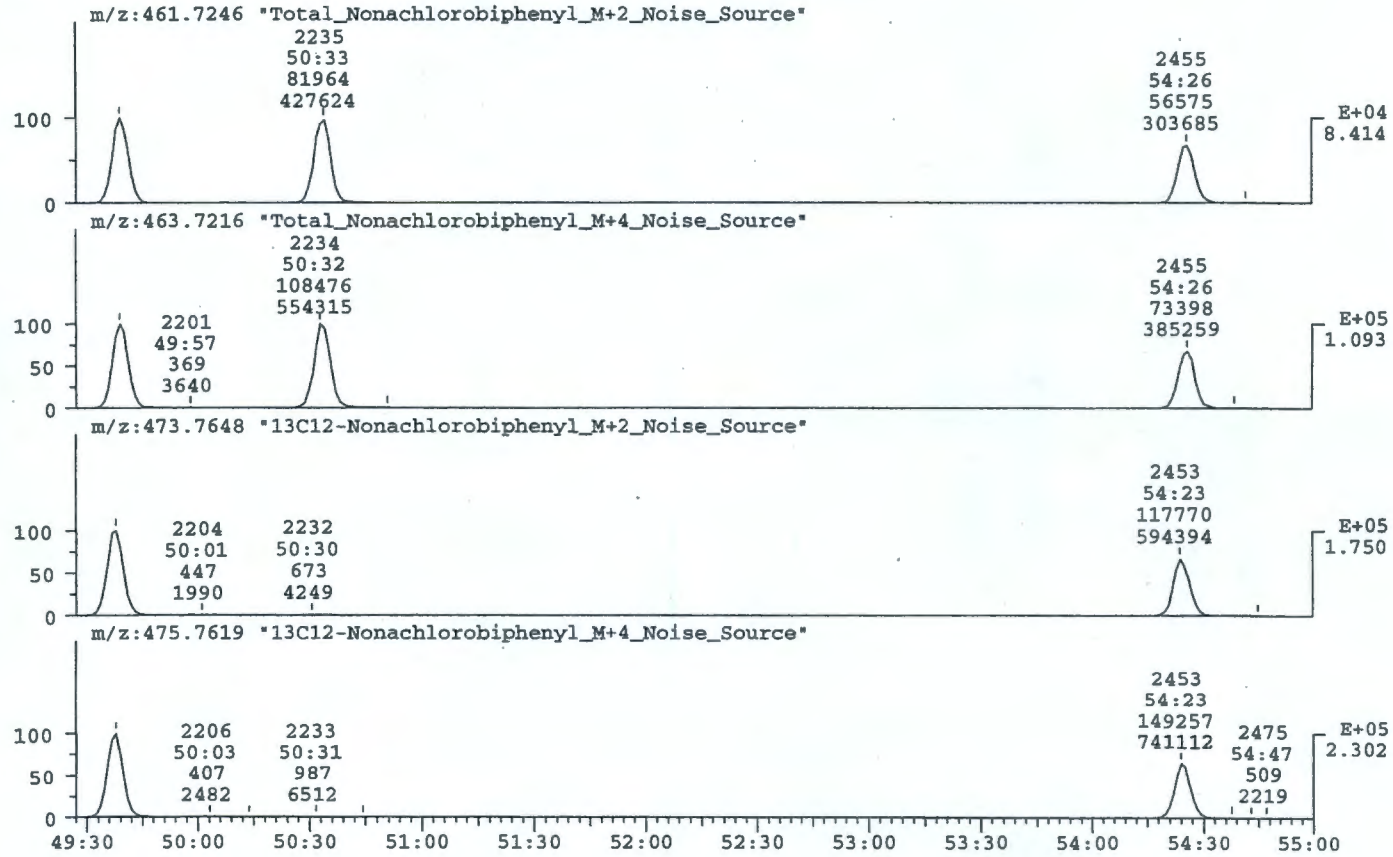
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  48:33      2125
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   2065 > 2150           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



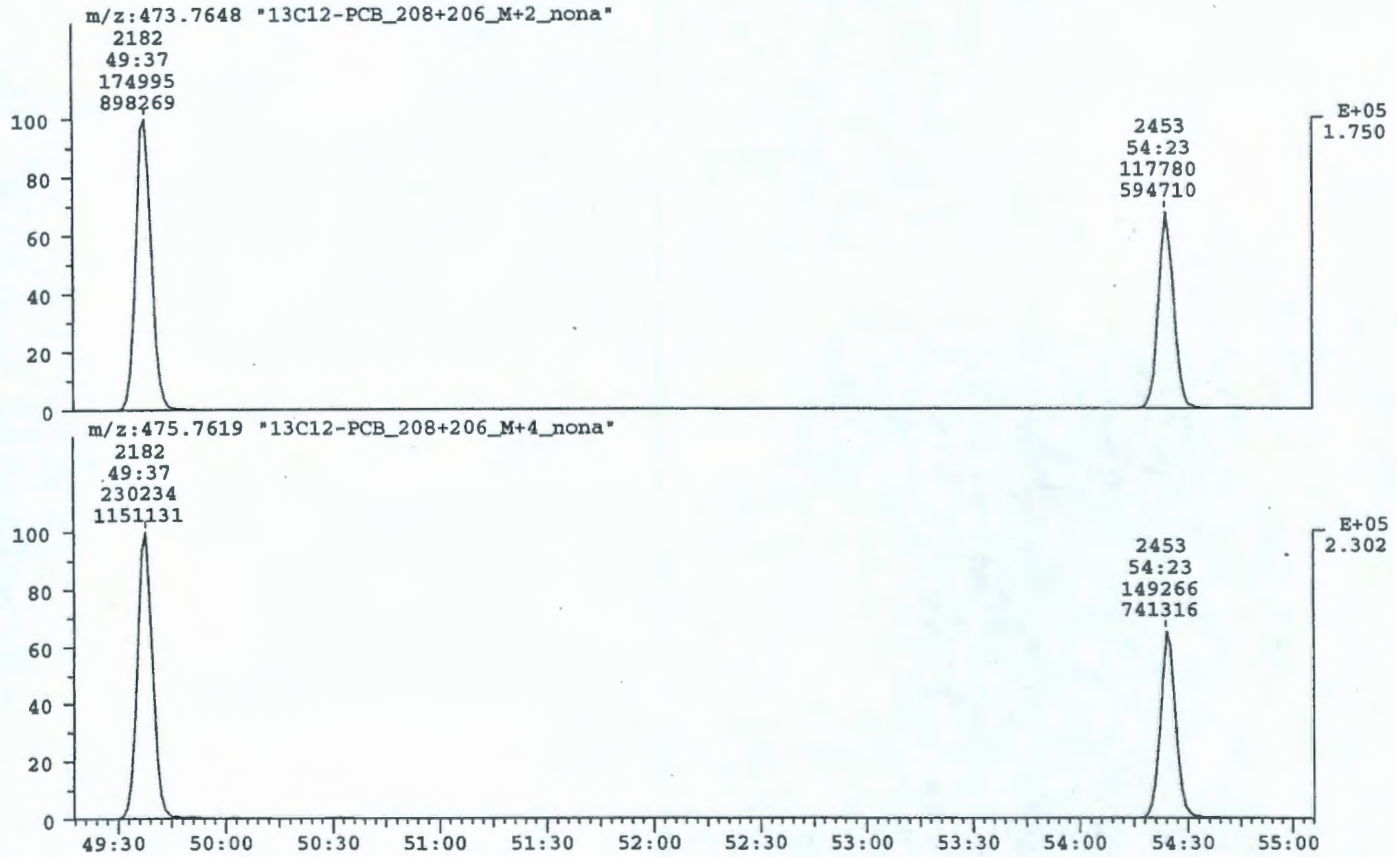
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  52:24      2340
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2185 > 2385           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



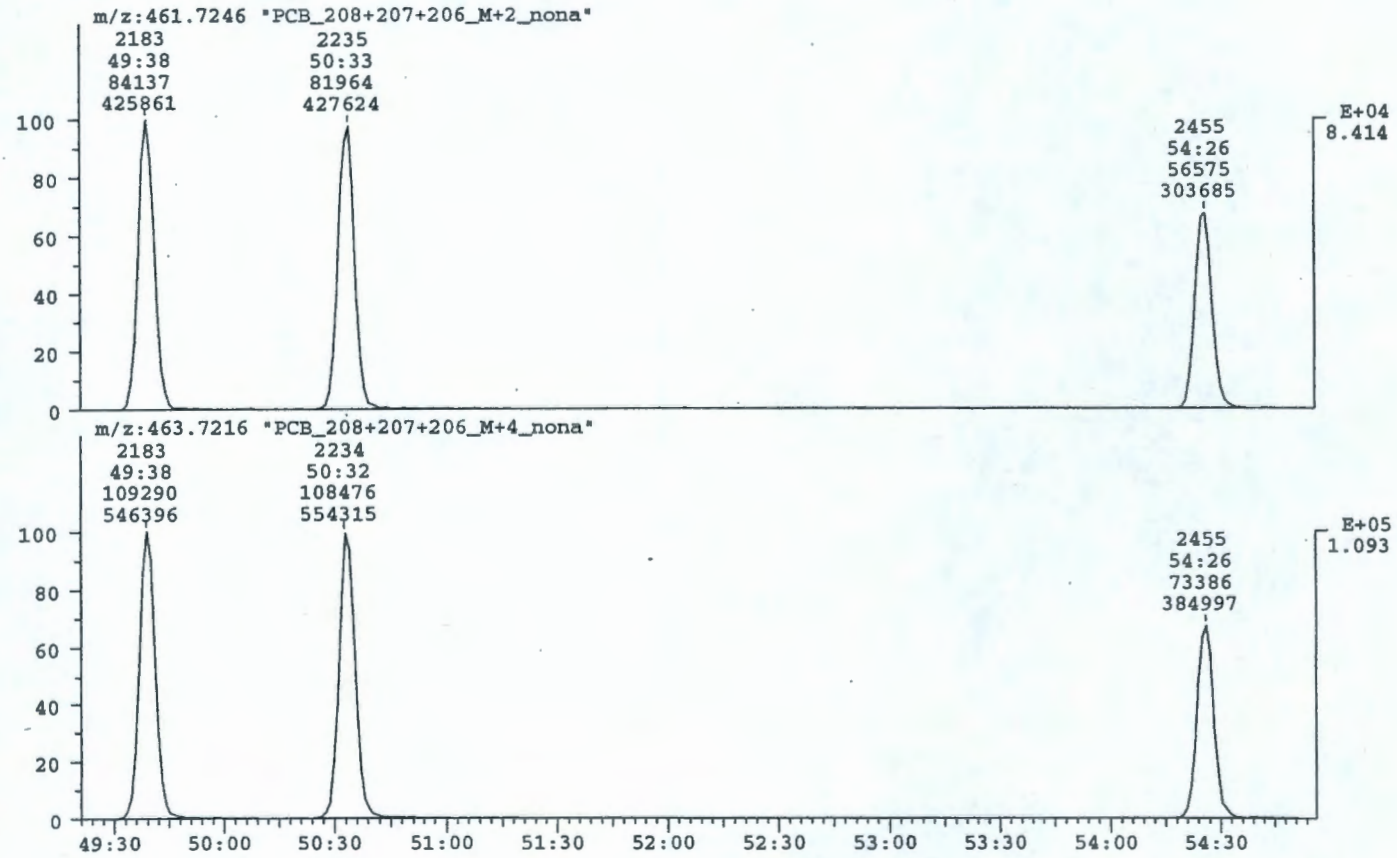
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  52:13      2329
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2172 > 2487          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



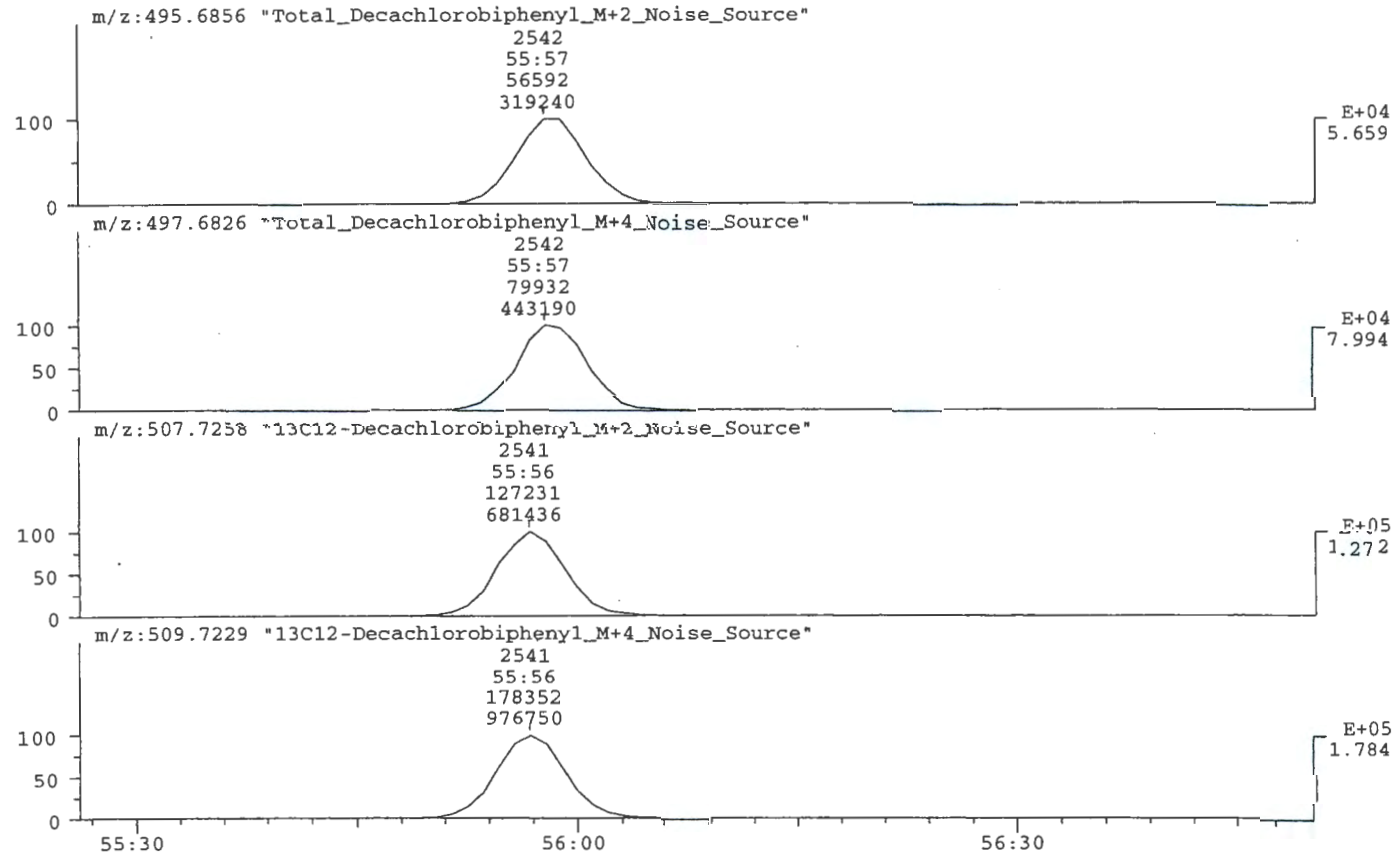
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  52:11      2328
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   2163 > 2493          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



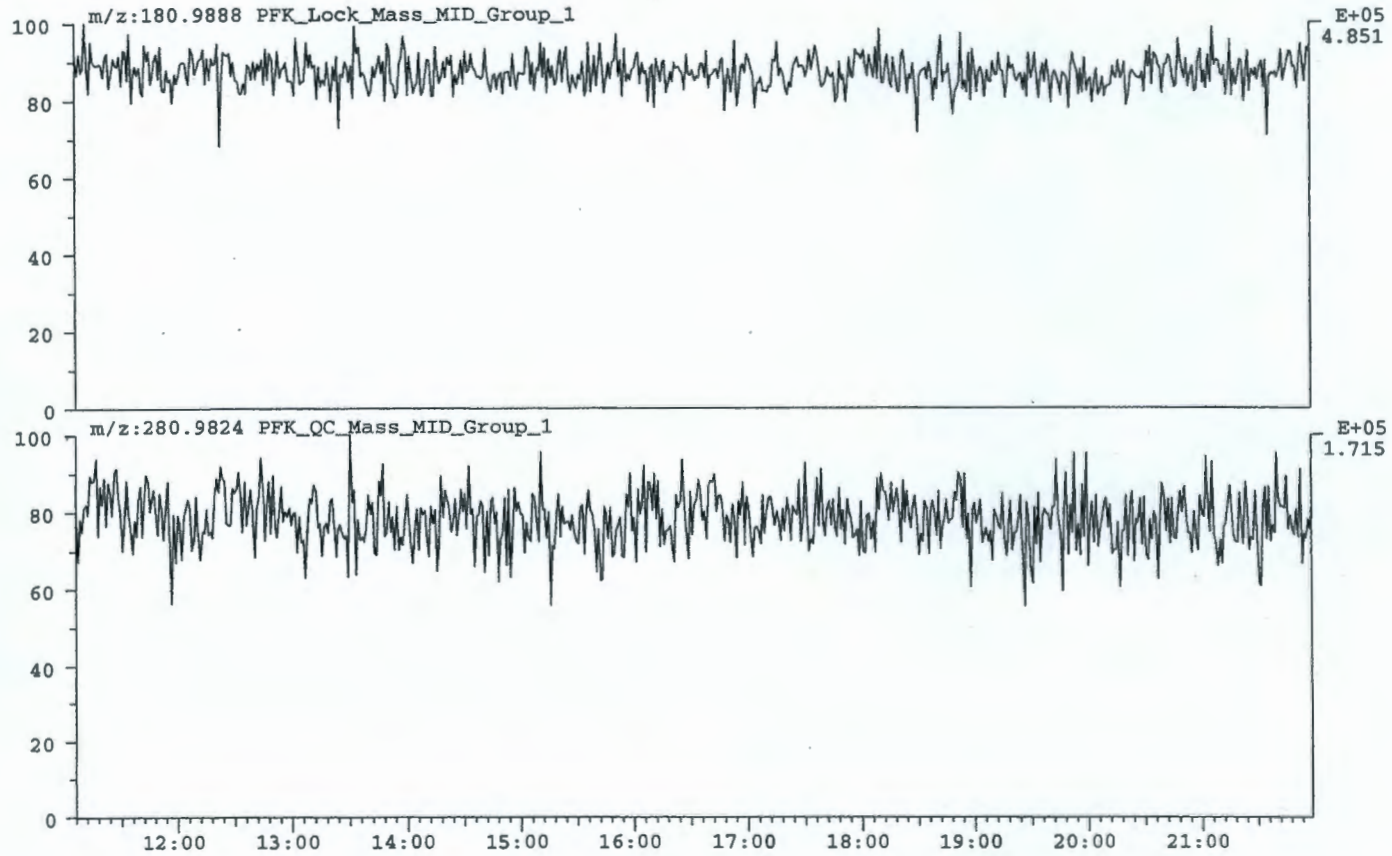
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  52:13      2329
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   2166 > 2484          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



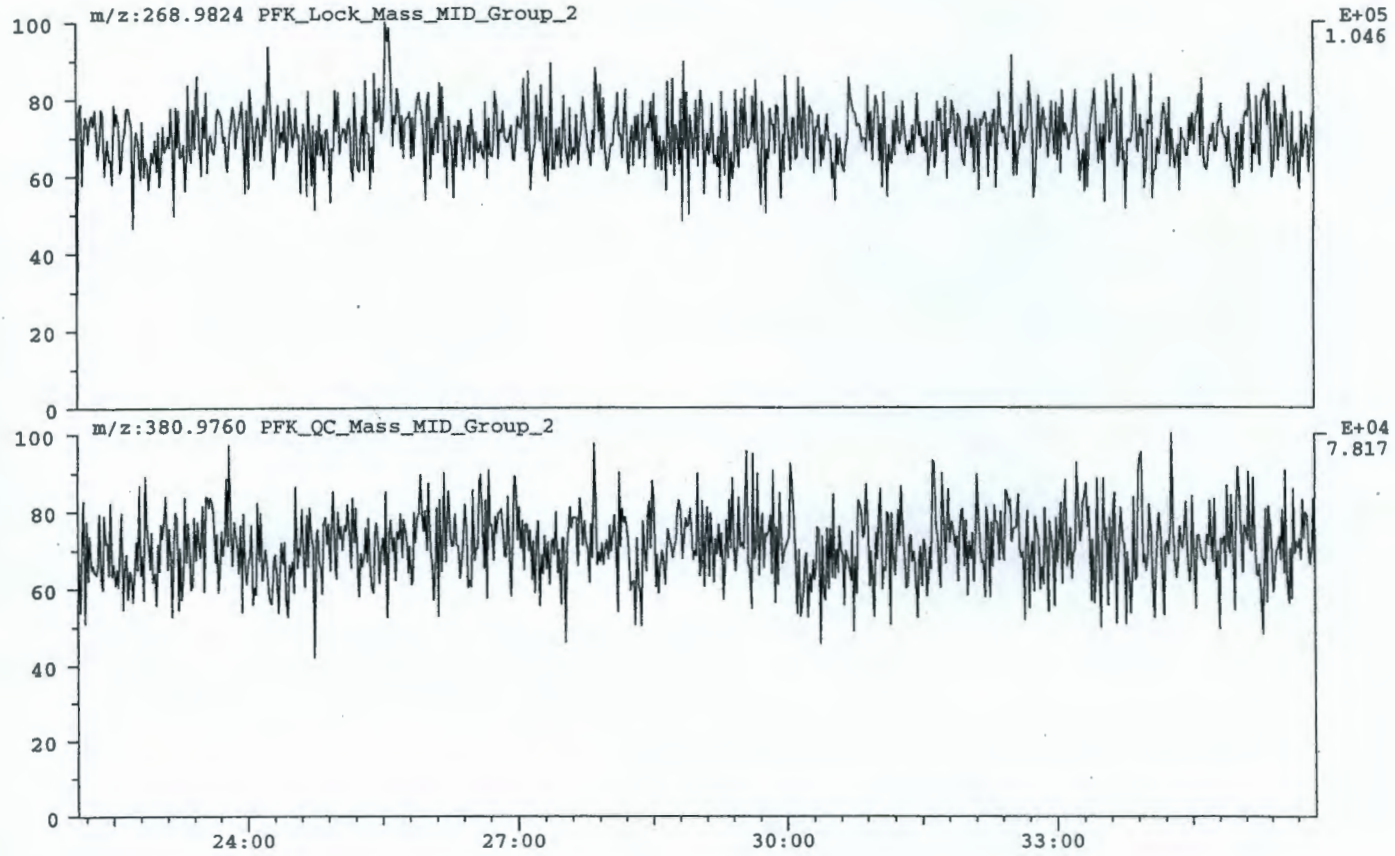
```
CHRO:  a070927s1                                27-Sep-07   Elapse:  56:11      2555
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2512 > 2592           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



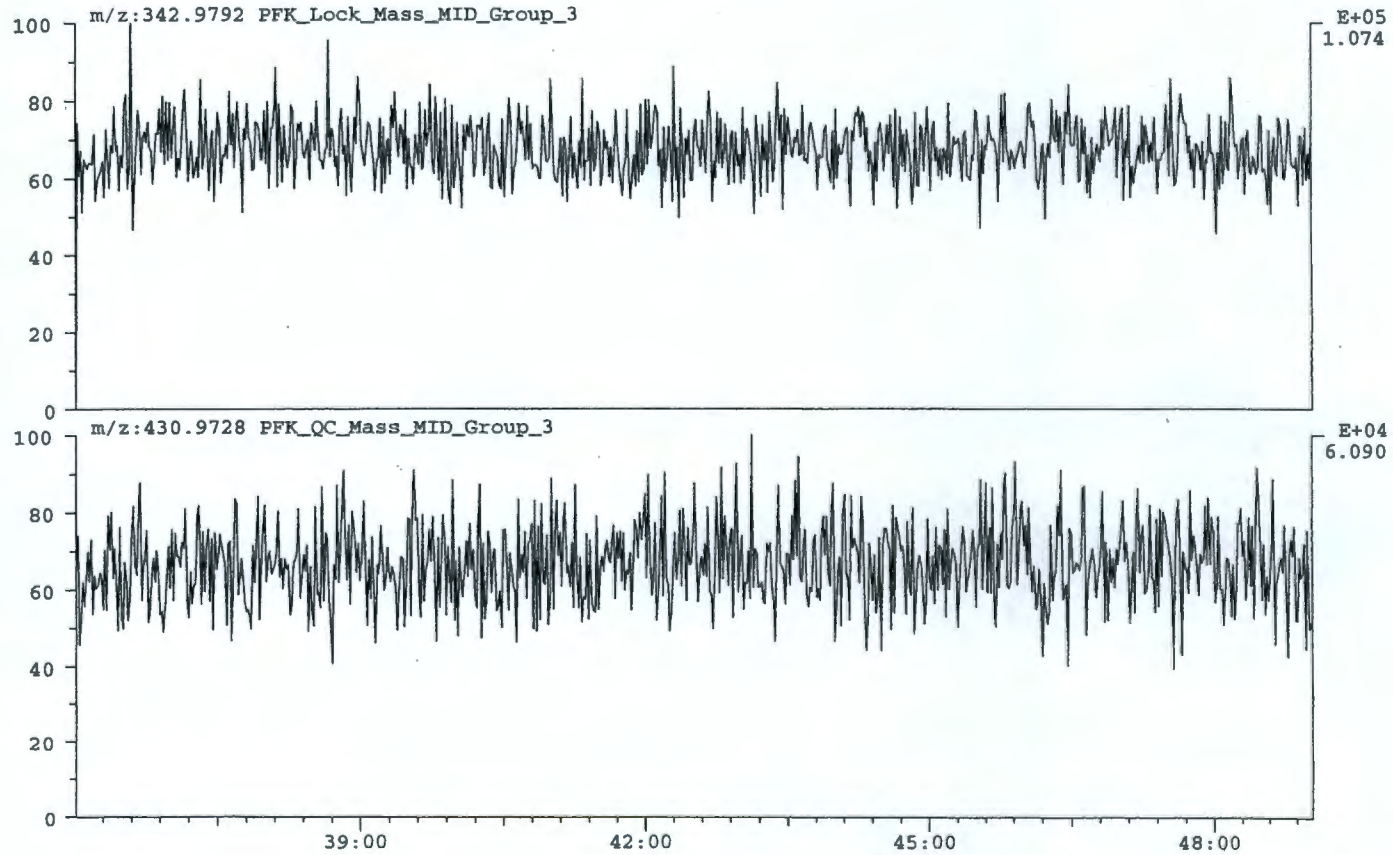
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  56:11      2555
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   6 > 624              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  0, 0.0
Disp:  Height  Area
```



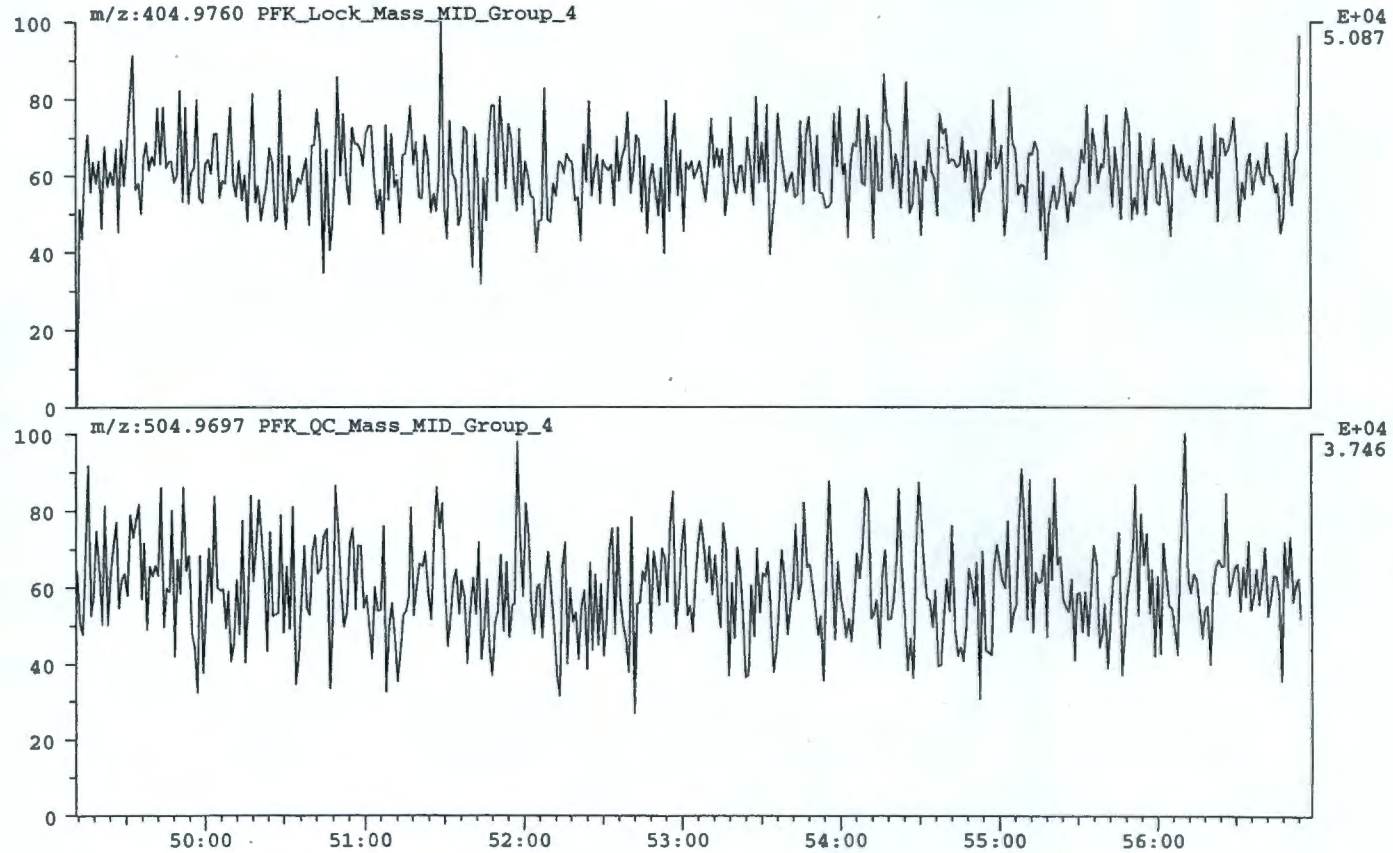
```
CHRO:  a070927s1                                27-Sep-07  Elapse:  56:11      2555
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   627 > 1411           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  0, 0.0
Disp:  Height  Area
```



```
CHRO:  a070927s1                                27-Sep-07  Elapse:  56:11      2555
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1413 > 2154          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  0, 0.0
Disp:  Height  Area
```



```
CHRO:  a070927s1                                27-Sep-07  Elapse:  56:11      2555
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:16:00   2596
Comm:  Inst=mld/35055-03a Batch=20070927s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   2157 > 2599           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  0, 0.0
Disp:  Height  Area
```



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Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a070927s1
Study: 1668 Ver
Sample: WO=2990:71 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: TA Knoxville
Comments: Inst=m1d/35055-03a Batch=20070927s1 Ccal=20070313i
Injected volume: 2.00
Sample from Vial 1
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcall.cal
File 1 of list 070927
ICL procedure: sleep7x
MID procedure: epa1668

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:00 min	13:55 min	35:55 min	1.00 sec
# 3	35:55 min	13:10 min	49:05 min	1.00 sec
# 4	49:05 min	7:55 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	1	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

2192

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	1	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	1	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	1	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

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Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epal668

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
Purge time 1.5 min
Purge flow 40.0 ml/min
Gas saver is on
Saver time 3.0 min
Saver flow 15.0 ml/min
Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1034.0919
BMASS	180.9888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.6235
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-14.7250
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9994
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0003
EDACR	23.0000	EDACZ	-2196.0000	ELEN	56.3500
EMULT	2.3000	ENS	163.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	148.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	600.9615	FSLOPE	54000000.0000	FVANAL	311.0000
FVINLET	281.0000	FVSRC	947.0000	FWIN	0.7000
GCTC	75.0000	GCTI	270.0000	GCTL	280.0000
HACCU	156.0000	HCURR	1.4510	HVANAL	1367.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4776.5520	IST	269.8026
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1402.0000	LENSS	84.4000
LKM	180.9888	LM	800.0000	LMASS	180.9888
LMII	500.0000	MASS	180.9888	MDAC	2349141.2750

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MDACR	23.0000	MRANGE	1034.0919	MSFM	2.0000
MSLM	3790.0000	NPEAK	200.0000	NSAM	200.0000
NSCAN	113873.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-6.5500
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10054.8378	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	2.0000	SCIDLE	1.0000	SHIELD	2459.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.9700	TCURR	0.9375
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	1.9800	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.9888	XLENS	2613.0000
XLENSS	-14.4000	YLENS	3700.0000	YLENSS	22.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 27-Sep-07 12:16:00.4

Autosampler has injected sample from vial 1
MID Time Window 1: Resolution is 9049
MID Time Window 2: Resolution is 8406
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 10124
Analysis stopped at: 27-Sep-07 13:12:57.7 (run time 56.93 minutes)
Analysis stopped because user requested stop from analysis

TA Knoxville Specialty Organics Group GC/MS Continuing Calibration Data Review Checklist
Method or SOP Number: KNOX-ID-0013 Revision 5

Start PFK:	22:02	End PFK:	09:47	CS3 Filename:	070092752	Inst:	MA795	ICAL Date:	3-13-07

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?		✓			✓
2. Was the instrument resolution ≥8,000 throughout and ≥ 10,000 in the center of each m/z range. PFK m/z 192.9888, *230.9856, and *280.9824? PFK m/z 268.9824, *292.9824, and *380.9760? PFK m/z 342.9792, *380.9760, and *430.9728? PFK m/z 404.9760, *442.9728, and *530.9665?		✓			✓
3. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Were the MID switchpoints set to encompass the retention time windows of each congener group?		✓			✓
6. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187		✓			✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		✓			✓
8. Were the %D for all toxic analytes within ± 30% (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Were the %D for all LOC analytes within ± 30% (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		✓			✓
9. Were the %D for all non-toxic/non-LOC analytes within ± 30%?		✓			✓
10. If the %D for any non-toxic/non-LOC was not within ± 30, were response factors calculated from the continuing calibration for all non-toxic/non-LOC analytes with a %D greater than ± 30% but within ± 60%.	✓				✓
11. Were the response factors calculated for each labeled standard and unlabeled native analyte using the SOP specified reference compound, quantitation ions, and formula.		✓			✓
12. Were the absolute retention times of all labeled internal standards within ± 15 seconds of the retention times obtained during initial calibration?		✓			✓
13. Are %D within ± 50% for all labeled internal standards in the calibration?		✓			✓
14. Are the %D within ± 30% for all labeled surrogate standards in the calibration.		✓			✓
15. Are the %D within -40/+30% for all labeled cleanup standards in the calibration?		✓			✓
16. Are all S/N ratios ≥10 for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		✓			✓
17. Are RRTs of all unlabled toxic/LOC analytes within their respective RRT limits?		✓			✓
18. If PCB 156 and 157 were classified as uniquely resolved in the most recent initial calibration, was the valley between the two less than or equal to the 50% of the height of the shorter of the two peaks?	✓				✓
19. Are the ion abundance ratios for all labeled and unlabeled analytes within the specified control limits?		✓			✓
20. If manual integrations were performed, are they clearly identified, initialed and dated?	✓				✓
21. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				✓
22. Does the CCAL folder contain **complete** data in the following order? Data review checklist, a **complete** runlog, CCAL summary, Ratio summary, Calculation summary, PFK resolution/peak match documentation (HRMS only), and Total RIC, EICP's and manual integration - for window and both standards.		✓			✓

Analyst: PMP	Date: 9-28-07	2nd Level Reviewer : DLG	Date: 9/28/07
Comments:		Comments:	

*At reduced accelerating voltage

STL KNOXVILLE
SPECIALTY ORGANICS INSTRUMENT MAT 95 RUN LOG

Date	Time	Opr	Sample ID	Filename	Code	Matrix	Type	Tape	Lot#/Comments
9-27-07	22:02	PMP	PFK	—	OK	—	Res		Mass Res
9-27-07	22:14	PMP	299071	20070927s2	OK	—	Ver		
9-27-07	23:14	PMP	Nonane	spbr	OK	—	QC		flush
9-27-07	23:29	PMP	↓	spbr	OK	—	QC		↓
9-27-07	23:55	PMP	↓	spbr	OK	—	QC		↓
9-28-07	01:40	PMP	J7CIT1AA	apj7cltbq	IF2X	BIOL	QC		System Blank
9-28-07	—	PMP	J64JQ1AA	apj64jq	IF DR	BIOL	SAM		H7I180256-001
9-28-07	—	PMP	J64JQ1AC	apj64jqx	DR	BIOL	DUP		-001DUP
9-28-07	—	PMP	J64JX1AA	apj64jx	DR	BIOL	SAM		-002
9-28-07	—	PMP	J64JX1AC	apj64jxs	DR	BIOL	QC		-002S
9-28-07	—	PMP	J64JX1AD	apj64jxd	DR	BIOL	QC		↓ -002D
9-28-07	—	PMP	Nonane	spbr	DR	—	QC		flush
9-28-07	08:29	PMP	↓	spbr	OK	—	QC		↓
9-28-07	08:45	PMP	J7CIT1AC	apj7cltc	OK	BIOL	QC		H7I210000-161C
9/28/07	09:47	PMP	PFK	—	OK	—	Res		Mass Res Check

Read and Understood by:

Date:

STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2
ICAL Date: 03/13/07
CCAL Filename: a070927s2
Method: IE4 - IE4
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070927s2/a070927s2.d
Column SN: 35055-03A
CCAL Date/Time: 09/27/07 22:14
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
I 13C12-PCB 1			M/M+2	3.21	2.66-3.60	1.318	1.135	-13.8	100	86	50-150	True
I 13C12-PCB 3			M/M+2	3.26	2.66-3.60	1.325	1.130	-14.7	100	85	50-150	True
PCB 1 (BZ)	L		M/M+2	3.32	2.66-3.60	1.253	1.139	-9.1	50	45	35-65	True
PCB 2 (BZ)			M/M+2	3.29	2.66-3.60	1.226	1.049	-14.5	50	43	35-65	True
PCB 3 (BZ)	L		M/M+2	3.29	2.66-3.60	1.348	1.107	-17.9	50	41	35-65	True
I 13C12-PCB 4			M/M+2	1.61	1.33-1.79	0.615	0.643	4.6	100	105	50-150	True
R 13C12-PCB 9			M/M+2	1.60	1.33-1.79	1.000	1.000	0.0	100	100	-	
S 13C12-PCB 8			M/M+2	1.62	1.33-1.79	1.332	1.244	-6.7	50	47	35-65	True
I 13C12-PCB 15			M/M+2	1.60	1.33-1.79	1.065	1.049	-1.5	100	99	50-150	True
PCB 4 (BZ)	L		M/M+2	1.55	1.33-1.79	1.212	1.072	-11.5	50	44	35-65	True
PCB 10 (BZ)			M/M+2	1.61	1.33-1.79	1.326	1.284	-3.2	50	48	35-65	True
PCB 9 (BZ)			M/M+2	1.58	1.33-1.79	1.445	1.274	-11.9	50	44	35-65	True
PCB 7 (BZ)			M/M+2	1.60	1.33-1.79	1.432	1.356	-5.3	50	47	35-65	True
PCB 6 (BZ)			M/M+2	1.63	1.33-1.79	1.450	1.305	-10.0	50	45	35-65	True
PCB 5 (BZ)			M/M+2	1.61	1.33-1.79	1.356	1.115	-17.7	50	41	35-65	True
PCB 8 (BZ)			M/M+2	1.65	1.33-1.79	1.477	1.236	-16.3	50	42	35-65	True
PCB 14 (BZ)			M/M+2	1.55	1.33-1.79	1.687	1.592	-5.7	50	47	35-65	True
PCB 11 (BZ)			M/M+2	1.61	1.33-1.79	1.448	1.264	-12.7	50	44	35-65	True
PCB 13 (BZ)		C12	M/M+2		1.33-1.79	1.454		0.0	100 a	86	70-130	C12
PCB 12 (BZ)		C12	M/M+2	1.61	1.33-1.79	1.454	1.251	-14.0	100 a	86	70-130	True
PCB 15 (BZ)	L		M/M+2	1.66	1.33-1.79	1.233	1.008	-18.2	50	41	35-65	True
I 13C12-PCB 19			M/M+2	1.11	0.88-1.20	0.558	0.591	5.8	100	106	50-150	True
R 13C12-PCB 32			M/M+2	1.12	0.88-1.20	1.000	1.000	0.0	100	100	-	
R 13C12-PCB 31			M/M+2	1.08	0.88-1.20	1.000	1.000	0.0	100	100	-	
C 13C12-PCB 28			M/M+2	1.09	0.88-1.20	0.968	1.058	9.3	50	55	35-65 b	True
I 13C12-PCB 37			M/M+2	1.10	0.88-1.20	0.885	0.915	3.3	100	103	50-150	True
PCB 19 (BZ)	L		M/M+2	1.09	0.88-1.20	1.178	1.188	0.9	50	50	35-65	True
PCB 30 (BZ)			M/M+2	1.11	0.88-1.20	1.874	1.842	-1.7	50	49	35-65	True
PCB 18 (BZ)			M/M+2	1.08	0.88-1.20	1.262	1.274	0.9	50	50	35-65	True
PCB 17 (BZ)			M/M+2	1.08	0.88-1.20	1.326	1.299	-2.0	50	49	35-65	True
PCB 27 (BZ)			M/M+2	1.06	0.88-1.20	1.945	1.823	-6.3	50	47	35-65	True
PCB 24 (BZ)			M/M+2	1.08	0.88-1.20	1.782	1.809	1.5	50	51	35-65	True
PCB 16 (BZ)			M/M+2	1.07	0.88-1.20	1.157	1.139	-1.6	50	49	35-65	True
PCB 32 (BZ)			M/M+2	1.06	0.88-1.20	1.966	1.993	1.4	50	51	35-65	True
PCB 34 (BZ)			M/M+2	1.03	0.88-1.20	1.216	1.080	-11.2	50	44	35-65	True
PCB 23 (BZ)			M/M+2	1.06	0.88-1.20	1.208	1.254	3.8	50	52	35-65	True
PCB 29 (BZ)		C26	M/M+2	1.04	0.88-1.20	1.265	1.200	-5.2	100 a	95	70-130	True
PCB 26 (BZ)		C26	M/M+2		0.88-1.20	1.265		0.0	100 a	95	70-130	C26
PCB 25 (BZ)			M/M+2	1.06	0.88-1.20	1.362	1.354	-0.5	50	50	35-65	True
PCB 31 (BZ)			M/M+2	1.07	0.88-1.20	1.285	1.180	-8.2	50	46	35-65	True
PCB 28 (BZ)		C20	M/M+2		0.88-1.20	1.238		0.0	100 a	87	70-130	C20
PCB 20 (BZ)		C20	M/M+2	1.06	0.88-1.20	1.238	1.080	-12.8	100 a	87	70-130	True
PCB 21 (BZ)		C21	M/M+2		0.88-1.20	1.276		0.0	100 a	102	70-130	C21

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

DG 9/28/07

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2
ICAL Date: 03/13/07
CCAL Filename: a070927s2
Method: IE4 - IE4
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070927s2/a070927s2.d
Column SN: 35055-03A
CCAL Date/Time: 09/27/07 22:14
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 33 (BZ)		C21	M/M+2	1.04	0.88-1.20	1.276	1.304	2.3	100	a	102	70-130	True
	PCB 22 (BZ)			M/M+2	1.06	0.88-1.20	1.218	1.034	-15.1	50		42	35-65	True
	PCB 36 (BZ)			M/M+2	1.08	0.88-1.20	1.286	1.264	-1.7	50		49	35-65	True
	PCB 39 (BZ)			M/M+2	1.04	0.88-1.20	1.330	1.254	-5.7	50		47	35-65	True
	PCB 38 (BZ)			M/M+2	1.04	0.88-1.20	1.246	1.163	-6.6	50		47	35-65	True
	PCB 35 (BZ)			M/M+2	1.04	0.88-1.20	1.195	1.158	-3.2	50		48	35-65	True
	PCB 37 (BZ)	L		M/M+2	1.05	0.88-1.20	1.224	1.119	-8.6	50		46	35-65	True
I	13C12-PCB 54			M/M+2	0.79	0.65-0.89	0.598	0.674	12.8	100		113	50-150	True
R	13C12-PCB 52			M/M+2	0.77	0.65-0.89	1.000	1.000	0.0	100		100	-	
S	13C12-PCB 79			M/M+2	0.78	0.65-0.89	1.089	1.066	-2.1	50		49	35-65	True
I	13C12-PCB 81			M/M+2	0.79	0.65-0.89	1.286	1.309	1.7	100		102	50-150	True
I	13C12-PCB 77			M/M+2	0.78	0.65-0.89	1.297	1.363	5.0	100		105	50-150	True
	PCB 54 (BZ)	L		M/M+2	0.80	0.65-0.89	1.211	1.176	-2.9	50		49	35-65	True
	PCB 50 (BZ)		C50	M/M+2	0.78	0.65-0.89	0.927	0.867	-6.4	100	a	94	70-130	True
	PCB 53 (BZ)		C50	M/M+2		0.65-0.89	0.927		0.0	100	a	94	70-130	C50
	PCB 45 (BZ)		C45	M/M+2	0.79	0.65-0.89	0.857	0.812	-5.3	100	a	95	70-130	True
	PCB 51 (BZ)		C45	M/M+2		0.65-0.89	0.857		0.0	100	a	95	70-130	C45
	PCB 46 (BZ)			M/M+2	0.76	0.65-0.89	0.706	0.680	-3.7	50		48	35-65	True
	PCB 52 (BZ)			M/M+2	0.81	0.65-0.89	0.926	0.779	-15.8	50		42	35-65	True
	PCB 73 (BZ)		C43	M/M+2	0.78	0.65-0.89	0.957	0.911	-4.8	100	a	95	70-130	True
	PCB 43 (BZ)		C43	M/M+2		0.65-0.89	0.957		0.0	100	a	95	70-130	C43
	PCB 69 (BZ)			M/M+2	0.77	0.65-0.89	1.180	1.043	-11.6	50		44	35-65	True
	PCB 49 (BZ)			M/M+2	0.80	0.65-0.89	1.005	0.998	-0.7	50		50	35-65	True
	PCB 48 (BZ)			M/M+2	0.79	0.65-0.89	0.886	0.754	-14.8	50		43	35-65	True
	PCB 65 (BZ)		C44	M/M+2	0.79	0.65-0.89	1.024	0.889	-13.2	150	a	130	105-195	True
	PCB 47 (BZ)		C44	M/M+2		0.65-0.89	1.024		0.0	150	a	130	105-195	C44
	PCB 44 (BZ)		C44	M/M+2		0.65-0.89	1.024		0.0	150	a	130	105-195	C44
	PCB 62 (BZ)		C59	M/M+2	0.79	0.65-0.89	1.297	1.177	-9.3	150	a	136	105-195	True
	PCB 75 (BZ)		C59	M/M+2		0.65-0.89	1.297		0.0	150	a	136	105-195	C59
	PCB 59 (BZ)		C59	M/M+2		0.65-0.89	1.297		0.0	150	a	136	105-195	C59
	PCB 42 (BZ)			M/M+2	0.74	0.65-0.89	0.860	0.781	-9.2	50		45	35-65	True
	PCB 41 (BZ)			M/M+2	0.76	0.65-0.89	0.723	0.594	-17.9	50		41	35-65	True
	PCB 71 (BZ)		C40	M/M+2	0.78	0.65-0.89	0.953	0.903	-5.3	100	a	95	70-130	True
	PCB 40 (BZ)		C40	M/M+2		0.65-0.89	0.953		0.0	100	a	95	70-130	C40
	PCB 64 (BZ)			M/M+2	0.79	0.65-0.89	1.313	1.185	-9.8	50		45	35-65	True
	PCB 72 (BZ)			M/M+2	0.79	0.65-0.89	1.257	1.131	-10.0	50		45	35-65	True
	PCB 68 (BZ)			M/M+2	0.76	0.65-0.89	1.327	1.095	-17.5	50		41	35-65	True
	PCB 57 (BZ)			M/M+2	0.80	0.65-0.89	1.194	1.097	-8.1	50		46	35-65	True
	PCB 58 (BZ)			M/M+2	0.80	0.65-0.89	1.260	1.042	-17.3	50		41	35-65	True
	PCB 67 (BZ)			M/M+2	0.80	0.65-0.89	1.286	1.267	-1.5	50		49	35-65	True
	PCB 63 (BZ)			M/M+2	0.81	0.65-0.89	1.339	1.113	-16.9	50		42	35-65	True
	PCB 61 (BZ)			M/M+2	0.81	0.65-0.89	1.190	1.016	-14.6	50		43	35-65	True
	PCB 70 (BZ)		C70	M/M+2		0.65-0.89	1.317		0.0	150	a	136	105-195	C70

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2
ICAL Date: 03/13/07
CCAL Filename: a070927s2
Method: IE4 - IE4
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070927s2/a070927s2.d
Column SN: 35055-03A
CCAL Date/Time: 09/27/07 22:14
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 76 (BZ)		C70	M/M+2	0.79	0.65-0.89	1.317	1.195	-9.3	150	a	136	105-195	True
	PCB 74 (BZ)		C70	M/M+2		0.65-0.89	1.317		0.0	150	a	136	105-195	C70
	PCB 66 (BZ)			M/M+2	0.77	0.65-0.89	1.289	1.072	-16.9	50		42	35-65	True
	PCB 55 (BZ)			M/M+2	0.79	0.65-0.89	1.161	1.015	-12.5	50		44	35-65	True
	PCB 56 (BZ)			M/M+2	0.80	0.65-0.89	1.231	1.075	-12.7	50		44	35-65	True
	PCB 60 (BZ)			M/M+2	0.80	0.65-0.89	1.191	1.126	-5.5	50		47	35-65	True
	PCB 80 (BZ)			M/M+2	0.78	0.65-0.89	1.416	1.324	-6.5	50		47	35-65	True
	PCB 79 (BZ)			M/M+2	0.80	0.65-0.89	1.371	1.297	-5.4	50		47	35-65	True
	PCB 78 (BZ)			M/M+2	0.75	0.65-0.89	1.181	1.113	-5.8	50		47	35-65	True
	PCB 81 (BZ)	T		M/M+2	0.78	0.65-0.89	1.317	1.223	-7.1	50		46	35-65	True
	PCB 77 (BZ)	T		M/M+2	0.78	0.65-0.89	1.200	1.103	-8.1	50		46	35-65	True
I	13C12-PCB 104			M+2/M+4	1.67	1.32-1.78	1.260	1.294	2.7	100		103	50-150	True
S	13C12-PCB 95			M+2/M+4	1.66	1.32-1.78	0.741	0.724	-2.2	50		49	35-65	True
R	13C12-PCB 101			M+2/M+4	1.62	1.32-1.78	1.000	1.000	0.0	100		100	-	
C	13C12-PCB 111			M+2/M+4	1.61	1.32-1.78	1.229	1.322	7.6	50		54	35-65	b True
I	13C12-PCB 123			M+2/M+4	1.62	1.32-1.78	0.955	0.972	1.8	100		102	50-150	True
I	13C12-PCB 118			M+2/M+4	1.60	1.32-1.78	0.988	1.042	5.5	100		105	50-150	True
I	13C12-PCB 114			M+2/M+4	1.60	1.32-1.78	0.971	0.951	-2.0	100		98	50-150	True
I	13C12-PCB 105			M+2/M+4	1.62	1.32-1.78	0.941	0.925	-1.7	100		98	50-150	True
R	13C12-PCB 127			M+2/M+4	1.62	1.32-1.78	1.000	1.000	0.0	100		100	-	
I	13C12-PCB 126			M+2/M+4	1.58	1.32-1.78	0.978	0.964	-1.4	100		99	50-150	True
	PCB 104 (BZ)	L		M+2/M+4	1.65	1.32-1.78	1.149	1.065	-7.3	50		46	35-65	True
	PCB 96 (BZ)			M+2/M+4	1.69	1.32-1.78	1.014	0.938	-7.4	50		46	35-65	True
	PCB 103 (BZ)			M+2/M+4	1.61	1.32-1.78	0.866	0.816	-5.8	50		47	35-65	True
	PCB 94 (BZ)			M+2/M+4	1.63	1.32-1.78	0.703	0.709	0.9	50		50	35-65	True
	PCB 95 (BZ)		C95	M+2/M+4	1.62	1.32-1.78	0.859	0.795	-7.4	100	a	93	70-130	True
	PCB 100 (BZ)		C95	M+2/M+4		1.32-1.78	0.859		0.0	100	a	93	70-130	C95
	PCB 93 (BZ)			M+2/M+4	1.61	1.32-1.78	0.701	0.673	-4.1	50		48	35-65	True
	PCB 102 (BZ)		C98	M+2/M+4	1.63	1.32-1.78	0.822	0.793	-3.5	100	a	96	70-130	True
	PCB 98 (BZ)		C98	M+2/M+4		1.32-1.78	0.822		0.0	100	a	96	70-130	C98
	PCB 88 (BZ)			M+2/M+4	1.63	1.32-1.78	0.723	0.630	-12.9	50		44	35-65	True
	PCB 91 (BZ)			M+2/M+4	1.63	1.32-1.78	0.864	0.807	-6.6	50		47	35-65	True
	PCB 84 (BZ)			M+2/M+4	1.60	1.32-1.78	0.679	0.608	-10.6	50		45	35-65	True
	PCB 89 (BZ)			M+2/M+4	1.63	1.32-1.78	0.717	0.655	-8.7	50		46	35-65	True
	PCB 121 (BZ)			M+2/M+4	1.62	1.32-1.78	1.105	1.108	0.2	50		50	35-65	True
	PCB 92 (BZ)			M+2/M+4	1.70	1.32-1.78	0.772	0.733	-5.0	50		47	35-65	True
	PCB 113 (BZ)		C90	M+2/M+4	1.59	1.32-1.78	0.990	0.926	-6.4	150	a	140	105-195	True
	PCB 90 (BZ)		C90	M+2/M+4		1.32-1.78	0.990		0.0	150	a	140	105-195	C90
	PCB 101 (BZ)		C90	M+2/M+4		1.32-1.78	0.990		0.0	150	a	140	105-195	C90
	PCB 83 (BZ)		C83	M+2/M+4	1.57	1.32-1.78	0.777	0.744	-4.3	100	a	96	70-130	True
	PCB 99 (BZ)		C83	M+2/M+4		1.32-1.78	0.777		0.0	100	a	96	70-130	C83
	PCB 112 (BZ)			M+2/M+4	1.70	1.32-1.78	1.079	1.072	-0.6	50		50	35-65	True
	PCB 109 (BZ)/108 (IUPAC)		C86	M+2/M+4	1.62	1.32-1.78	0.967	0.919	-4.9	300	a	285	210-390	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2 **ICAL Date:** 03/13/07

CCAL Filename: a070927s2 **Method:** IE4 - IE4

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20070927s2/a070927s2.d **Column SN:** 35055-03A

CCAL Date/Time: 09/27/07 22:14 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
PCB 86 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	285	210-390	C86
PCB 119 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	285	210-390	C86
PCB 97 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	285	210-390	C86
PCB 125 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	285	210-390	C86
PCB 87 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	285	210-390	C86
PCB 117 (BZ)		C85	M+2/M+4	1.65	1.32-1.78	0.979	0.909	-7.2	150	a	139	105-195	True
PCB 116 (BZ)		C85	M+2/M+4		1.32-1.78	0.979		0.0	150	a	139	105-195	C85
PCB 85 (BZ)		C85	M+2/M+4		1.32-1.78	0.979		0.0	150	a	139	105-195	C85
PCB 110 (BZ)		C110	M+2/M+4	1.65	1.32-1.78	1.139	1.031	-9.5	100	a	91	70-130	True
PCB 115 (BZ)		C110	M+2/M+4		1.32-1.78	1.139		0.0	100	a	91	70-130	C110
PCB 82 (BZ)			M+2/M+4	1.56	1.32-1.78	0.605	0.573	-5.3	50		47	35-65	True
PCB 111 (BZ)			M+2/M+4	1.61	1.32-1.78	1.129	1.113	-1.4	50		49	35-65	True
PCB 120 (BZ)			M+2/M+4	1.58	1.32-1.78	1.192	1.106	-7.3	50		46	35-65	True
PCB 124 (BZ)		C108	M+2/M+4		1.32-1.78	1.123		0.0	100	a	96	70-130	C108
PCB 108 (BZ)/107 (IUPAC)		C108	M+2/M+4	1.58	1.32-1.78	1.123	1.079	-4.0	100	a	96	70-130	True
PCB 107 (BZ)/109 (IUPAC)			M+2/M+4	1.56	1.32-1.78	1.074	1.013	-5.7	50		47	35-65	True
PCB 123 (BZ)	T		M+2/M+4	1.58	1.32-1.78	1.136	1.098	-3.3	50		48	35-65	True
PCB 106 (BZ)			M+2/M+4	1.68	1.32-1.78	1.046	1.065	1.8	50		51	35-65	True
PCB 118 (BZ)	T		M+2/M+4	1.59	1.32-1.78	1.094	0.999	-8.6	50		46	35-65	True
PCB 122 (BZ)			M+2/M+4	1.62	1.32-1.78	1.047	0.952	-9.2	50		45	35-65	True
PCB 114 (BZ)	T		M+2/M+4	1.61	1.32-1.78	1.196	1.248	4.3	50		52	35-65	True
PCB 105 (BZ)	T		M+2/M+4	1.62	1.32-1.78	1.218	1.123	-7.8	50		46	35-65	True
PCB 127 (BZ)			M+2/M+4	1.67	1.32-1.78	1.130	1.092	-3.4	50		48	35-65	True
PCB 126 (BZ)	T		M+2/M+4	1.59	1.32-1.78	1.111	1.057	-4.8	50		48	35-65	True
I 13C12-PCB 155			M+2/M+4	1.27	1.05-1.43	1.178	1.345	14.2	100		114	50-150	True
S 13C12-PCB 153			M+2/M+4	1.29	1.05-1.43	0.833	0.844	1.2	50		51	35-65	True
R 13C12-PCB 138			M+2/M+4	1.31	1.05-1.43	1.000	1.000	0.0	100		100	-	
I 13C12-PCB 167			M+2/M+4	1.28	1.05-1.43	1.237	1.214	-1.9	100		98	50-150	True
I 13C12-PCB 156			M+2/M+4	1.28	1.05-1.43	1.229	1.218	-0.9	200		198	100-300	True
I 13C12-PCB 157			M+2/M+4		1.05-1.43	0.000		0.0	0		0	0-0	C156L
I 13C12-PCB 169			M+2/M+4	1.28	1.05-1.43	1.188	1.071	-9.8	100		90	50-150	True
PCB 155 (BZ)	L		M+2/M+4	1.30	1.05-1.43	1.117	1.057	-5.4	50		47	35-65	True
PCB 152 (BZ)			M+2/M+4	1.29	1.05-1.43	1.023	0.934	-8.7	50		46	35-65	True
PCB 150 (BZ)			M+2/M+4	1.33	1.05-1.43	1.032	0.956	-7.4	50		46	35-65	True
PCB 136 (BZ)			M+2/M+4	1.30	1.05-1.43	0.967	0.901	-6.7	50		47	35-65	True
PCB 145 (BZ)			M+2/M+4	1.30	1.05-1.43	1.021	0.946	-7.3	50		46	35-65	True
PCB 148 (BZ)			M+2/M+4	1.27	1.05-1.43	0.749	0.697	-6.9	50		47	35-65	True
PCB 151 (BZ)		C135	M+2/M+4		1.05-1.43	0.781		0.0	150	a	143	105-195	C135
PCB 135 (BZ)		C135	M+2/M+4	1.29	1.05-1.43	0.781	0.742	-4.9	150	a	143	105-195	True
PCB 154 (BZ)		C135	M+2/M+4		1.05-1.43	0.781		0.0	150	a	143	105-195	C135
PCB 144 (BZ)			M+2/M+4	1.22	1.05-1.43	0.759	0.750	-1.2	50		49	35-65	True
PCB 147 (BZ)		C147	M+2/M+4	1.23	1.05-1.43	0.862	0.848	-1.6	100	a	98	70-130	True
PCB 149 (BZ)		C147	M+2/M+4		1.05-1.43	0.862		0.0	100	a	98	70-130	C147

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2
ICAL Date: 03/13/07
CCAL Filename: a070927s2
Method: IE4 - IE4
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070927s2/a070927s2.d
Column SN: 35055-03A
CCAL Date/Time: 09/27/07 22:14
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
PCB 134 (BZ)		C134	M+2/M+4		1.05-1.43	0.711		0.0	100	a	99	70-130	C134
PCB 143 (BZ)		C134	M+2/M+4	1.24	1.05-1.43	0.711	0.703	-1.2	100	a	99	70-130	True
PCB 139 (BZ)		C139	M+2/M+4	1.27	1.05-1.43	0.856	0.850	-0.7	100	a	99	70-130	True
PCB 140 (BZ)		C139	M+2/M+4		1.05-1.43	0.856		0.0	100	a	99	70-130	C139
PCB 131 (BZ)			M+2/M+4	1.26	1.05-1.43	0.713	0.675	-5.4	50		47	35-65	True
PCB 142 (BZ)			M+2/M+4	1.25	1.05-1.43	0.735	0.700	-4.8	50		48	35-65	True
PCB 132 (BZ)			M+2/M+4	1.29	1.05-1.43	0.710	0.682	-4.0	50		48	35-65	True
PCB 133 (BZ)			M+2/M+4	1.28	1.05-1.43	0.768	0.731	-4.9	50		48	35-65	True
PCB 165 (BZ)			M+2/M+4	1.28	1.05-1.43	0.993	0.997	0.5	50		50	35-65	True
PCB 146 (BZ)			M+2/M+4	1.25	1.05-1.43	0.874	0.829	-5.2	50		47	35-65	True
PCB 161 (BZ)			M+2/M+4	1.26	1.05-1.43	1.090	1.065	-2.3	50		49	35-65	True
PCB 153 (BZ)		C153	M+2/M+4	1.26	1.05-1.43	1.068	1.060	-0.8	100	a	99	70-130	True
PCB 168 (BZ)		C153	M+2/M+4		1.05-1.43	1.068		0.0	100	a	99	70-130	C153
PCB 141 (BZ)			M+2/M+4	1.28	1.05-1.43	0.756	0.777	2.8	50		51	35-65	True
PCB 130 (BZ)			M+2/M+4	1.27	1.05-1.43	0.708	0.692	-2.4	50		49	35-65	True
PCB 137 (BZ)			M+2/M+4	1.25	1.05-1.43	0.835	0.823	-1.5	50		49	35-65	True
PCB 164 (BZ)			M+2/M+4	1.27	1.05-1.43	1.033	1.034	0.1	50		50	35-65	True
PCB 138 (BZ)		C129	M+2/M+4	1.26	1.05-1.43	0.922	0.898	-2.6	200	a	195	140-260	True
PCB 163 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200	a	195	140-260	C129
PCB 129 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200	a	195	140-260	C129
PCB 160 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200	a	195	140-260	C129
PCB 158 (BZ)			M+2/M+4	1.27	1.05-1.43	1.191	1.161	-2.5	50		49	35-65	True
PCB 166 (BZ)			M+2/M+4	1.26	1.05-1.43	1.102	1.052	-4.6	50		48	35-65	True
PCB 128 (BZ)			M+2/M+4	1.25	1.05-1.43	0.769	0.765	-0.5	50		50	35-65	True
PCB 159 (BZ)			M+2/M+4	1.25	1.05-1.43	1.079	1.042	-3.4	50		48	35-65	True
PCB 162 (BZ)			M+2/M+4	1.28	1.05-1.43	1.079	1.050	-2.7	50		49	35-65	True
PCB 167 (BZ)	T		M+2/M+4	1.26	1.05-1.43	1.150	1.042	-9.4	50		45	35-65	True
PCB 156 (BZ)	T	C156	M+2/M+4	1.24	1.05-1.43	1.151	0.994	-13.6	100	a	86	70-130	True
PCB 157 (BZ)	T	C156	M+2/M+4		1.05-1.43	1.151		0.0	0	a	86	0-0	C156
PCB 169 (BZ)	T		M+2/M+4	1.26	1.05-1.43	1.337	1.171	-12.4	50		44	35-65	True
I 13C12-PCB 188			M+2/M+4	1.06	0.89-1.21	1.238	1.340	8.3	100		108	50-150	True
C 13C12-PCB 178			M+2/M+4	1.07	0.89-1.21	0.863	0.864	0.2	50		50	35-65 b	True
R 13C12-PCB 180			M+2/M+4	1.05	0.89-1.21	1.000	1.000	0.0	100		100	-	
I 13C12-PCB 170			M+2/M+4	1.04	0.89-1.21	0.813	0.800	-1.7	100		98	50-150	True
I 13C12-PCB 189			M+2/M+4	1.07	0.89-1.21	1.620	1.633	0.8	100		101	50-150	True
PCB 188 (BZ)	L		M+2/M+4	1.04	0.89-1.21	1.071	0.993	-7.2	50		46	35-65	True
PCB 179 (BZ)			M+2/M+4	1.05	0.89-1.21	1.200	1.182	-1.5	50		49	35-65	True
PCB 184 (BZ)			M+2/M+4	1.04	0.89-1.21	1.178	1.142	-3.1	50		48	35-65	True
PCB 176 (BZ)			M+2/M+4	1.04	0.89-1.21	1.252	1.220	-2.6	50		49	35-65	True
PCB 186 (BZ)			M+2/M+4	1.04	0.89-1.21	1.214	1.155	-4.9	50		48	35-65	True
PCB 178 (BZ)			M+2/M+4	1.09	0.89-1.21	0.889	0.812	-8.7	50		46	35-65	True
PCB 175 (BZ)			M+2/M+4	1.04	0.89-1.21	0.920	0.875	-4.9	50		48	35-65	True
PCB 187 (BZ)			M+2/M+4	1.06	0.89-1.21	1.009	0.923	-8.5	50		46	35-65	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2
ICAL Date: 03/13/07
CCAL Filename: a070927s2
Method: IE4 - IE4
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070927s2/a070927s2.d
Column SN: 35055-03A
CCAL Date/Time: 09/27/07 22:14
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 182 (BZ)			M+2/M+4	1.04	0.89-1.21	0.972	0.937	-3.6	50	48	35-65	True
	PCB 183 (BZ)			M+2/M+4	1.07	0.89-1.21	0.946	0.892	-5.8	50	47	35-65	True
	PCB 185 (BZ)			M+2/M+4	1.07	0.89-1.21	0.919	0.862	-6.2	50	47	35-65	True
	PCB 174 (BZ)			M+2/M+4	1.07	0.89-1.21	0.924	0.833	-9.8	50	45	35-65	True
	PCB 177 (BZ)			M+2/M+4	1.04	0.89-1.21	0.880	0.797	-9.4	50	45	35-65	True
	PCB 181 (BZ)			M+2/M+4	1.06	0.89-1.21	0.975	0.878	-9.9	50	45	35-65	True
	PCB 171 (BZ)		C171	M+2/M+4		0.89-1.21	0.835		0.0	100 a	94	70-130	C171
	PCB 173 (BZ)		C171	M+2/M+4	1.05	0.89-1.21	0.835	0.782	-6.4	100 a	94	70-130	True
	PCB 172 (BZ)			M+2/M+4	1.07	0.89-1.21	0.838	0.777	-7.3	50	46	35-65	True
	PCB 192 (BZ)			M+2/M+4	1.05	0.89-1.21	1.147	1.065	-7.2	50	46	35-65	True
	PCB 193 (BZ)		C180	M+2/M+4	1.06	0.89-1.21	1.134	1.037	-8.6	100 a	91	70-130	True
	PCB 180 (BZ)		C180	M+2/M+4		0.89-1.21	1.134		0.0	100 a	91	70-130	C180
	PCB 191 (BZ)			M+2/M+4	1.01	0.89-1.21	1.228	1.138	-7.3	50	46	35-65	True
	PCB 170 (BZ)			M+2/M+4	1.08	0.89-1.21	1.058	0.981	-7.3	50	46	35-65	True
	PCB 190 (BZ)			M+2/M+4	1.06	0.89-1.21	1.254	1.151	-8.2	50	46	35-65	True
	PCB 189 (BZ)	T		M+2/M+4	1.02	0.89-1.21	1.097	1.029	-6.2	50	47	35-65	True
I	13C12-PCB 202			M+2/M+4	0.91	0.76-1.02	0.994	1.135	14.2	100	114	50-150	True
R	13C12-PCB 194			M+2/M+4	0.91	0.76-1.02	1.000	1.000	0.0	100	100	-	
I	13C12-PCB 205			M+2/M+4	0.89	0.76-1.02	1.407	1.461	3.8	100	104	50-150	True
	PCB 202 (BZ)	L		M+2/M+4	0.91	0.76-1.02	0.993	0.914	-7.9	50	46	35-65	True
	PCB 200 (BZ)/201 (IUPAC)			M+2/M+4	0.90	0.76-1.02	1.087	1.039	-4.4	50	48	35-65	True
	PCB 204 (BZ)			M+2/M+4	0.85	0.76-1.02	1.033	0.941	-9.0	50	46	35-65	True
	PCB 197 (BZ)			M+2/M+4	0.89	0.76-1.02	1.061	0.996	-6.2	50	47	35-65	True
	PCB 199 (BZ)/200 (IUPAC)			M+2/M+4	0.89	0.76-1.02	1.031	0.977	-5.3	50	47	35-65	True
	PCB 198 (BZ)		C198	M+2/M+4	0.88	0.76-1.02	0.761	0.665	-12.6	100 a	87	70-130	True
	PCB 201 (BZ)/199 (IUPAC)		C198	M+2/M+4		0.76-1.02	0.761		0.0	100 a	87	70-130	C198
	PCB 196 (BZ)			M+2/M+4	0.89	0.76-1.02	0.752	0.653	-13.2	50	43	35-65	True
	PCB 203 (BZ)			M+2/M+4	0.88	0.76-1.02	0.856	0.745	-12.9	50	44	35-65	True
	PCB 195 (BZ)			M+2/M+4	0.87	0.76-1.02	0.723	0.725	0.4	50	50	35-65	True
	PCB 194 (BZ)			M+2/M+4	0.89	0.76-1.02	0.795	0.743	-6.5	50	47	35-65	True
	PCB 205 (BZ)	L		M+2/M+4	0.89	0.76-1.02	0.984	0.931	-5.4	50	47	35-65	True
I	13C12-PCB 208			M+2/M+4	0.79	0.65-0.89	1.161	1.379	18.8	100	119	50-150	True
I	13C12-PCB 206			M+2/M+4	0.81	0.65-0.89	0.823	0.910	10.6	100	111	50-150	True
	PCB 208 (BZ)	L		M+2/M+4	0.77	0.65-0.89	1.026	0.957	-6.7	50	47	35-65	True
	PCB 207 (BZ)			M+2/M+4	0.79	0.65-0.89	1.264	1.197	-5.3	50	47	35-65	True
	PCB 206 (BZ)	L		M+2/M+4	0.77	0.65-0.89	1.097	0.994	-9.4	50	45	35-65	True
I	13C12-PCB 209			M+2/M+4	0.71	0.59-0.79	0.930	1.106	18.9	100	119	50-150	True
	PCB 209 (BZ)	L		M+2/M+4	0.72	0.59-0.79	1.006	0.967	-3.8	50	48	35-65	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2
ICAL Date: 03/13/07
CCAL Filename: a070927s2
Method: IE4 - IE4
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070927s2/a070927s2.d
Column SN: 35055-03A
CCAL Date/Time: 09/27/07 22:14
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 189 False: ~~10~~ 0 Warning: ~~21~~ 20

RMP 9-28-07 2X

Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
I 13C12-PCB 1			12:12	12:17	5	15	0.7323	0.7341	0.7173-0.7473	True
I 13C12-PCB 3			14:25	14:31	6	15	0.8653	0.8675	0.8503-0.8803	True
PCB 1 (BZ)	L		12:13	12:18	5		1.0015	1.0014	0.9946-1.0083	True
PCB 2 (BZ)			14:16	14:20	4		0.9894	0.9874	0.9859-0.9928	True
PCB 3 (BZ)	L		14:26	14:32	6		1.0009	1.0011	0.9975-1.0044	True
I 13C12-PCB 4			14:42	14:48	6	15	0.8827	0.8845	0.8677-0.8977	True
R 13C12-PCB 9			16:39	16:44	5		1.0000	1.0000	0.9875-1.0125	True
S 13C12-PCB 8			17:32	17:38	6		1.1927	1.1914	1.1893-1.1961	True
I 13C12-PCB 15			20:41	20:48	7	15	1.2412	1.2430	1.2312-1.2512	True
PCB 4 (BZ)	L		14:43	14:49	6		1.0012	1.0011	0.9955-1.0069	True
PCB 10 (BZ)			14:54	14:58	4		1.0129	1.0113	1.0095-1.0163	True
PCB 9 (BZ)			16:41	16:45	4		1.1349	1.1318	1.1315-1.1383	True
PCB 7 (BZ)			16:50	16:54	4		1.1451	1.1419	1.1417-1.1485	True
PCB 6 (BZ)			17:07	17:12	5		1.1647	1.1622	1.1613-1.1681	True
PCB 5 (BZ)			17:26	17:32	6		1.1859	1.1847	1.1825-1.1893	True
PCB 8 (BZ)			17:34	17:39	5		1.1946	1.1926	1.1912-1.1980	True
PCB 14 (BZ)			19:09	19:14	5		0.9264	0.9247	0.9239-0.9288	True
PCB 11 (BZ)			20:04	20:09	5		0.9704	0.9688	0.9680-0.9728	True
PCB 13 (BZ)		C12	20:20				0.9836		0.9811-0.9860	C12
PCB 12 (BZ)		C12	20:23	20:29	6		0.9857	0.9848	0.9833-0.9881	True
PCB 15 (BZ)	L		20:41	20:49	8		1.0007	1.0008	0.9967-1.0048	True
I 13C12-PCB 19			17:53	17:59	6	15	0.8458	0.8469	0.8340-0.8576	True
R 13C12-PCB 32			21:09	21:14	5		1.0000	1.0000	0.9976-1.0024	True
R 13C12-PCB 31			23:24	23:28	4		1.0000	1.0000	0.9979-1.0021	True
C 13C12-PCB 28			23:41	23:45	4		1.0123	1.0121	1.0052-1.0195	True
I 13C12-PCB 37			27:46	27:54	8	15	1.1869	1.1889	1.1762-1.1976	True
PCB 19 (BZ)	L		17:55	18:00	5		1.0014	1.0009	0.9967-1.0060	True
PCB 30 (BZ)			19:38	19:41	3		1.0982	**1.0945**	1.0955-1.1010	**Warning**
PCB 18 (BZ)			19:45	19:51	6		1.1048	1.1038	1.1020-1.1076	True
PCB 17 (BZ)			20:10	20:14	4		1.1271	1.1251	1.1243-1.1299	True
PCB 27 (BZ)			20:25	20:30	5		1.1414	1.1399	1.1386-1.1442	True
PCB 24 (BZ)			20:31	20:36	5		1.1473	1.1455	1.1445-1.1501	True
PCB 16 (BZ)			20:41	20:47	6		1.1560	1.1557	1.1532-1.1588	True
PCB 32 (BZ)			21:11	21:15	4		1.1839	1.1816	1.1812-1.1867	True
PCB 34 (BZ)			22:24	22:27	3		1.2523	**1.2484**	1.2495-1.2550	**Warning**
PCB 23 (BZ)			22:31	22:35	4		1.2591	**1.2558**	1.2563-1.2619	**Warning**
PCB 29 (BZ)		C26	22:51	22:56	5		1.2771	1.2753	1.2724-1.2818	True
PCB 26 (BZ)		C26	22:52				1.2790		1.2743-1.2836	C26
PCB 25 (BZ)			23:05	23:10	5		0.8313	0.8303	0.8295-0.8331	True
PCB 31 (BZ)			23:26	23:30	4		0.8437	0.8423	0.8419-0.8455	True
PCB 28 (BZ)		C20	23:42				0.8537		0.8507-0.8567	C20
PCB 20 (BZ)		C20	23:47	23:53	6		0.8565	0.8560	0.8535-0.8595	True
PCB 21 (BZ)		C21	23:54				0.8607		0.8577-0.8637	C21
PCB 33 (BZ)		C21	24:00	24:04	4		0.8643	0.8626	0.8613-0.8673	True
PCB 22 (BZ)			24:24	24:30	6		0.8787	0.8781	0.8769-0.8805	True
PCB 36 (BZ)			25:55	25:57	2		0.9329	**0.9301**	0.9311-0.9347	**Warning**
PCB 39 (BZ)			26:16	26:22	6		0.9459	0.9450	0.9441-0.9477	True
PCB 38 (BZ)			26:52	26:57	5		0.9672	0.9659	0.9654-0.9690	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2
ICAL Date: 03/13/07
CCAL Filename: a070927s2
Method: IE4 - IE4
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070927s2/a070927s2.d
Column SN: 35055-03A
CCAL Date/Time: 09/27/07 22:14
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 189 False: 1 Warning: 21

Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
PCB 35 (BZ)			27:23	27:28	5		0.9862	0.9845	0.9844-0.9880	True
PCB 37 (BZ)	L		27:48	27:55	7		1.0006	1.0006	0.9988-1.0024	True
I 13C12-PCB 54			21:02	21:08	6	15	0.8233	0.8255	0.8168-0.8298	True
R 13C12-PCB 52			25:33	25:36	3		1.0000	1.0000	0.9918-1.0082	True
S 13C12-PCB 79			33:28	33:32	4		0.9699	0.9696	0.9685-0.9714	True
I 13C12-PCB 81			34:30	34:35	5	15	1.3506	1.3509	1.3440-1.3571	True
I 13C12-PCB 77			35:06	35:12	6	15	1.3737	1.3750	1.3672-1.3803	True
PCB 54 (BZ)	L		21:03	21:09	6		1.0006	1.0008	0.9967-1.0046	True
PCB 50 (BZ)		C50	23:10	23:16	6		1.1015	1.1009	1.0976-1.1055	True
PCB 53 (BZ)		C50	23:11				1.1026		1.0986-1.1065	C50
PCB 45 (BZ)		C45	23:53	23:59	6		1.1361	1.1349	1.1322-1.1401	True
PCB 51 (BZ)		C45	23:56				1.1377		1.1337-1.1417	C45
PCB 46 (BZ)			24:14	24:19	5		1.1520	1.1506	1.1496-1.1543	True
PCB 52 (BZ)			25:34	25:37	3		1.2161	**1.2121**	1.2138-1.2185	**Warning**
PCB 73 (BZ)		C43	25:41	25:45	4		1.2214	**1.2185**	1.2190-1.2238	**Warning**
PCB 43 (BZ)		C43	25:47				1.2262		1.2238-1.2285	C43
PCB 69 (BZ)			25:56	25:59	3		1.2330	1.2295	1.2291-1.2370	True
PCB 49 (BZ)			26:03	26:06	3		1.2386	1.2350	1.2346-1.2425	True
PCB 48 (BZ)			26:19	26:22	3		1.2515	**1.2476**	1.2491-1.2539	**Warning**
PCB 65 (BZ)		C44	26:32	26:37	5		1.2616	1.2595	1.2576-1.2655	True
PCB 47 (BZ)		C44	26:34				1.2634		1.2594-1.2674	C44
PCB 44 (BZ)		C44	26:36				1.2647		1.2608-1.2687	C44
PCB 62 (BZ)		C59	26:48	26:52	4		1.2745	1.2713	1.2705-1.2785	True
PCB 75 (BZ)		C59	26:52				1.2779		1.2740-1.2819	C59
PCB 59 (BZ)		C59	26:55				1.2795		1.2756-1.2835	C59
PCB 42 (BZ)			27:07	27:11	4		1.2893	**1.2863**	1.2869-1.2917	**Warning**
PCB 41 (BZ)			27:32	27:36	4		1.3088	1.3060	1.3049-1.3128	True
PCB 71 (BZ)		C40	27:37	27:42	5		1.3133	1.3107	1.3094-1.3173	True
PCB 40 (BZ)		C40	27:40				1.3157		1.3117-1.3197	C40
PCB 64 (BZ)			27:49	27:54	5		1.3228	**1.3202**	1.3204-1.3252	**Warning**
PCB 72 (BZ)			28:37	28:37	0		0.8292	**0.8275**	0.8278-0.8307	**Warning**
PCB 68 (BZ)			28:52	28:54	2		0.8368	0.8357	0.8353-0.8382	True
PCB 57 (BZ)			29:19	29:21	2		0.8500	0.8487	0.8485-0.8514	True
PCB 58 (BZ)			29:35	29:38	3		0.8576	0.8569	0.8561-0.8590	True
PCB 67 (BZ)			29:42	29:46	4		0.8611	0.8607	0.8597-0.8626	True
PCB 63 (BZ)			30:00	30:01	1		0.8693	0.8680	0.8679-0.8708	True
PCB 61 (BZ)			30:13	30:15	2		0.8758	0.8747	0.8729-0.8786	True
PCB 70 (BZ)		C70	30:21				0.8795		0.8766-0.8824	C70
PCB 76 (BZ)		C70	30:21	30:25	4		0.8798	0.8795	0.8769-0.8827	True
PCB 74 (BZ)		C70	30:23				0.8807		0.8783-0.8832	C70
PCB 66 (BZ)			30:41	30:45	4		0.8896	0.8892	0.8881-0.8910	True
PCB 55 (BZ)			30:53	30:57	4		0.8951	0.8949	0.8936-0.8965	True
PCB 56 (BZ)			31:24	31:29	5		0.9100	0.9104	0.9086-0.9115	True
PCB 60 (BZ)			31:36	31:41	5		0.9160	0.9161	0.9146-0.9174	True
PCB 80 (BZ)			31:52	31:54	2		0.9239	0.9224	0.9224-0.9253	True
PCB 79 (BZ)			33:30	33:33	3		0.9709	0.9701	0.9694-0.9723	True
PCB 78 (BZ)			34:05	34:07	2		0.9876	0.9865	0.9862-0.9891	True
PCB 81 (BZ)	T		34:32	34:36	4		1.0008	1.0005	0.9994-1.0023	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2
ICAL Date: 03/13/07
CCAL Filename: a070927s2
Method: IE4 - IE4
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070927s2/a070927s2.d
Column SN: 35055-03A
CCAL Date/Time: 09/27/07 22:14
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 189 False: 1 Warning: 21

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 77 (BZ)	T		35:07	35:13	6		1.0004	1.0005	0.9990-1.0018	True
I	13C12-PCB 104			26:28	26:31	3	15	0.8182	0.8193	0.8131-0.8234	True
S	13C12-PCB 95			29:30	29:33	3		1.1143	1.1144	1.1111-1.1174	True
R	13C12-PCB 101			32:21	32:22	1		1.0000	1.0000	0.9936-1.0064	True
C	13C12-PCB 111			34:59	34:59	0		1.0813	1.0808	1.0761-1.0864	True
I	13C12-PCB 123			37:01	37:02	1	15	1.1438	1.1442	1.1386-1.1489	True
I	13C12-PCB 118			37:20	37:21	1	15	1.1537	1.1540	1.1486-1.1589	True
I	13C12-PCB 114			37:52	37:55	3	15	1.1705	1.1715	1.1653-1.1756	True
I	13C12-PCB 105			38:35	38:38	3	15	1.1923	1.1936	1.1871-1.1974	True
R	13C12-PCB 127			39:58	39:59	1		1.0000	1.0000	0.9948-1.0052	True
I	13C12-PCB 126			41:38	41:42	4	15	1.2868	1.2884	1.2817-1.2920	True
	PCB 104 (BZ)	L		26:30	26:32	2		1.0007	1.0006	0.9975-1.0038	True
	PCB 96 (BZ)			26:59	27:03	4		1.0189	1.0201	1.0158-1.0221	True
	PCB 103 (BZ)			28:47	28:46	-1		1.0869	**1.0849**	1.0850-1.0888	**Warning**
	PCB 94 (BZ)			29:03	29:05	2		1.0974	1.0968	1.0955-1.0993	True
	PCB 95 (BZ)		C95	29:33	29:36	3		1.1158	1.1163	1.1127-1.1190	True
	PCB 100 (BZ)		C95	29:37				1.1186		1.1154-1.1217	C95
	PCB 93 (BZ)			29:42	29:46	4		1.1221	1.1226	1.1190-1.1253	True
	PCB 102 (BZ)		C98	29:50	29:54	4		1.1268	1.1276	1.1236-1.1299	True
	PCB 98 (BZ)		C98	29:54				1.1295		1.1263-1.1326	C98
	PCB 88 (BZ)			30:15	30:16	1		1.1427	1.1414	1.1389-1.1465	True
	PCB 91 (BZ)			30:22	30:25	3		1.1471	1.1471	1.1440-1.1503	True
	PCB 84 (BZ)			30:39	30:44	5		1.1576	1.1590	1.1557-1.1595	True
	PCB 89 (BZ)			31:07	31:11	4		1.1756	1.1760	1.1737-1.1775	True
	PCB 121 (BZ)			31:21	31:21	0		1.1840	1.1823	1.1821-1.1859	True
	PCB 92 (BZ)			31:49	31:49	0		0.8598	0.8591	0.8584-0.8611	True
	PCB 113 (BZ)		C90	32:21	32:23	2		1.2218	1.2212	1.2186-1.2249	True
	PCB 90 (BZ)		C90	32:22				1.2224		1.2193-1.2256	C90
	PCB 101 (BZ)		C90	32:22				1.2226		1.2195-1.2258	C90
	PCB 83 (BZ)		C83	32:55	32:57	2		1.2432	1.2426	1.2394-1.2470	True
	PCB 99 (BZ)		C83	32:57				1.2444		1.2413-1.2476	C83
	PCB 112 (BZ)			33:05	33:07	2		1.2497	1.2489	1.2478-1.2516	True
	PCB 109 (BZ)/108 (IUPAC)		C86	33:25	33:26	1		1.2621	1.2608	1.2570-1.2671	True
	PCB 86 (BZ)		C86	33:29				1.2648		1.2598-1.2698	C86
	PCB 119 (BZ)		C86	33:27				1.2633		1.2583-1.2684	C86
	PCB 97 (BZ)		C86	33:30				1.2656		1.2606-1.2707	C86
	PCB 125 (BZ)		C86	33:36				1.2688		1.2637-1.2738	C86
	PCB 87 (BZ)		C86	33:39				1.2711		1.2679-1.2742	C86
	PCB 117 (BZ)		C85	34:06	34:09	3		1.2881	1.2879	1.2843-1.2919	True
	PCB 116 (BZ)		C85	34:10				1.2904		1.2866-1.2942	C85
	PCB 85 (BZ)		C85	34:15				1.2940		1.2908-1.2971	C85
	PCB 110 (BZ)		C110	34:25	34:28	3		1.3000	1.2998	1.2969-1.3032	True
	PCB 115 (BZ)		C110	34:25				1.2998		1.2967-1.3030	C110
	PCB 82 (BZ)			34:47	34:51	4		1.3141	1.3143	1.3122-1.3160	True
	PCB 111 (BZ)			35:01	35:00	-1		1.3225	**1.3199**	1.3206-1.3244	**Warning**
	PCB 120 (BZ)			35:29	35:28	-1		1.3401	**1.3375**	1.3382-1.3420	**Warning**
	PCB 124 (BZ)		C108	36:42				1.3858		1.3827-1.3890	C108
	PCB 108 (BZ)/107 (IUPAC)		C108	36:41	36:43	2		1.3854	1.3847	1.3823-1.3886	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2
ICAL Date: 03/13/07
CCAL Filename: a070927s2
Method: IE4 - IE4
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070927s2/a070927s2.d
Column SN: 35055-03A
CCAL Date/Time: 09/27/07 22:14
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 189 False: 1 Warning: 21

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 107 (BZ)/109 (IUPAC)			36:55	36:57	2		1.3942	1.3935	1.3923-1.3961	True
	PCB 123 (BZ)	T		37:01	37:04	3		1.0004	1.0009	0.9991-1.0018	True
	PCB 106 (BZ)			37:10	37:10	0		1.0042	1.0036	1.0028-1.0055	True
	PCB 118 (BZ)	T		37:22	37:23	1		1.0007	1.0009	0.9994-1.0021	True
	PCB 122 (BZ)			37:46	37:47	1		1.0117	1.0116	1.0104-1.0131	True
	PCB 114 (BZ)	T		37:54	37:56	2		1.0006	1.0004	0.9993-1.0019	True
	PCB 105 (BZ)	T		38:37	38:40	3		1.0010	1.0009	0.9997-1.0023	True
	PCB 127 (BZ)			40:00	40:00	0		1.0367	1.0354	1.0354-1.0380	True
	PCB 126 (BZ)	T		41:39	41:44	5		1.0005	1.0008	0.9993-1.0017	True
I	13C12-PCB 155			32:02	32:00	-2	15	0.7919	0.7908	0.7878-0.7960	True
S	13C12-PCB 153			39:08	39:08	0		0.9018	0.9020	0.8999-0.9037	True
R	13C12-PCB 138			40:27	40:28	1		1.0000	1.0000	0.9794-1.0206	True
I	13C12-PCB 167			43:24	43:23	-1	15	1.0729	1.0721	1.0687-1.0770	True
I	13C12-PCB 156			44:34	44:40	6	15	1.1018	~~1.1038~~	1.1006-1.1031	~~Warning~~
I	13C12-PCB 157			44:39			15	1.1037	1.1017	1.1025-1.1049	True PMP 9-28-07
I	13C12-PCB 169			47:50	47:50	0	15	1.1822	1.1820	1.1809-1.1834	True
	PCB 155 (BZ)	L		32:03	32:02	-1		1.0006	1.0010	0.9980-1.0032	True
	PCB 152 (BZ)			32:25	32:26	1		1.0121	1.0135	1.0105-1.0136	True
	PCB 150 (BZ)			32:31	32:31	0		1.0154	1.0161	1.0138-1.0169	True
	PCB 136 (BZ)			33:00	33:03	3		1.0303	1.0328	1.0287-1.0318	Warning
	PCB 145 (BZ)			33:13	33:15	2		1.0369	1.0391	1.0353-1.0384	Warning
	PCB 148 (BZ)			34:38	34:36	-2		1.0812	1.0812	1.0797-1.0828	True
	PCB 151 (BZ)		C135	35:17				1.1017		1.0991-1.1043	C135
	PCB 135 (BZ)		C135	35:22	35:25	3		1.1041	1.1068	1.1015-1.1067	Warning
	PCB 154 (BZ)		C135	35:27				1.1066		1.1040-1.1092	C135
	PCB 144 (BZ)			35:51	35:51	0		1.1192	1.1203	1.1177-1.1208	True
	PCB 147 (BZ)		C147	36:12	36:12	0		1.1298	1.1313	1.1272-1.1324	True
	PCB 149 (BZ)		C147	36:14				1.1310		1.1284-1.1336	C147
	PCB 134 (BZ)		C134	36:27				1.1379		1.1353-1.1405	C134
	PCB 143 (BZ)		C134	36:34	36:33	-1		1.1412	1.1422	1.1386-1.1438	True
	PCB 139 (BZ)		C139	36:46	36:46	0		1.1477	1.1490	1.1451-1.1503	True
	PCB 140 (BZ)		C139	36:49				1.1490		1.1464-1.1516	C139
	PCB 131 (BZ)			37:02	37:04	2		1.1563	1.1583	1.1548-1.1579	Warning
	PCB 142 (BZ)			37:12	37:11	-1		1.1610	1.1620	1.1594-1.1626	True
	PCB 132 (BZ)			37:34	37:36	2		1.1725	1.1750	1.1698-1.1751	True
	PCB 133 (BZ)			37:56	37:54	-2		1.1841	1.1844	1.1825-1.1856	True
	PCB 165 (BZ)			38:19	38:18	-1		0.8827	0.8828	0.8815-0.8838	True
	PCB 146 (BZ)			38:33	38:33	0		0.8883	0.8886	0.8871-0.8895	True
	PCB 161 (BZ)			38:42	38:40	-2		0.8915	0.8913	0.8903-0.8927	True
	PCB 153 (BZ)		C153	39:11	39:10	-1		0.9028	0.9028	0.9008-0.9047	True
	PCB 168 (BZ)		C153	39:13				0.9035		0.9016-0.9054	C153
	PCB 141 (BZ)			39:25	39:26	1		0.9081	0.9090	0.9070-0.9093	True
	PCB 130 (BZ)			39:51	39:52	1		0.9182	0.9189	0.9171-0.9194	True
	PCB 137 (BZ)			40:02	40:01	-1		0.9225	0.9224	0.9213-0.9236	True
	PCB 164 (BZ)			40:11	40:12	1		0.9258	0.9266	0.9246-0.9269	True
	PCB 138 (BZ)		C129	40:29	40:29	0		0.9327	0.9332	0.9300-0.9354	True
	PCB 163 (BZ)		C129	40:29				0.9326		0.9299-0.9353	C129
	PCB 129 (BZ)		C129	40:35				0.9351		0.9325-0.9378	C129

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2
ICAL Date: 03/13/07
CCAL Filename: a070927s2
Method: IE4 - IE4
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070927s2/a070927s2.d
Column SN: 35055-03A
CCAL Date/Time: 09/27/07 22:14
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 189 False: 1 Warning: 21

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 160 (BZ)		C129	40:38				0.9362		0.9342-0.9381	C129
	PCB 158 (BZ)			40:50	40:50	0		0.9409	0.9412	0.9397-0.9421	True
	PCB 166 (BZ)			41:41	41:42	1		0.9605	0.9612	0.9586-0.9624	True
	PCB 128 (BZ)			41:48	41:50	2		0.9632	0.9643	0.9612-0.9651	True
	PCB 159 (BZ)			42:40	42:39	-1		0.9830	0.9831	0.9819-0.9842	True
	PCB 162 (BZ)			42:57	42:56	-1		0.9895	0.9896	0.9884-0.9907	True
	PCB 167 (BZ)	T		43:27	43:25	-2		1.0009	1.0008	0.9998-1.0021	True
	PCB 156 (BZ)	T	C156	44:37	44:36	-1		1.0008	~~0.9985~~	0.9997-1.0019	~~False~~ True
	PCB 157 (BZ)	T	C156	44:41				1.0025	1.0004	1.0006-1.0043	C156 PMP
	PCB 169 (BZ)	T		47:51	47:51	0		1.0003	1.0003	0.9993-1.0014	True 9-28-07
I	13C12-PCB 188			37:46	37:43	-3	15	0.8226	0.8220	0.8190-0.8262	True
C	13C12-PCB 178			40:51	40:49	-2		0.8896	0.8896	0.8859-0.8932	True
R	13C12-PCB 180			45:55	45:53	-2		1.0000	1.0000	0.9819-1.0181	True
I	13C12-PCB 170			47:15	47:14	-1	15	1.0288	1.0294	1.0252-1.0324	True
I	13C12-PCB 189			50:18	50:16	-2	15	1.0954	1.0955	1.0918-1.0991	True
	PCB 188 (BZ)	L		37:47	37:45	-2		1.0004	1.0009	0.9991-1.0017	True
	PCB 179 (BZ)			38:15	38:15	0		1.0127	1.0141	1.0114-1.0141	True
	PCB 184 (BZ)			38:39	38:36	-3		1.0232	1.0234	1.0219-1.0245	True
	PCB 176 (BZ)			39:07	39:06	-1		1.0355	1.0367	1.0342-1.0368	True
	PCB 186 (BZ)			39:34	39:34	0		1.0476	1.0490	1.0463-1.0489	Warning
	PCB 178 (BZ)			40:53	40:50	-3		1.0824	1.0826	1.0811-1.0838	True
	PCB 175 (BZ)			41:30	41:27	-3		1.0988	1.0990	1.0974-1.1001	True
	PCB 187 (BZ)			41:46	41:44	-2		1.1058	1.1065	1.1045-1.1071	True
	PCB 182 (BZ)			41:57	41:53	-4		1.1105	1.1105	1.1092-1.1118	True
	PCB 183 (BZ)			42:22	42:19	-3		1.1217	1.1220	1.1204-1.1230	True
	PCB 185 (BZ)			42:31	42:29	-2		1.1255	1.1264	1.1242-1.1268	True
	PCB 174 (BZ)			42:41	42:41	0		1.1301	1.1317	1.1288-1.1314	Warning
	PCB 177 (BZ)			43:08	43:06	-2		1.1418	1.1427	1.1405-1.1432	True
	PCB 181 (BZ)			43:28	43:25	-3		1.1507	1.1511	1.1493-1.1520	True
	PCB 171 (BZ)		C171	43:45				1.1580		1.1558-1.1602	C171
	PCB 173 (BZ)		C171	43:44	43:43	-1		1.1576	1.1591	1.1563-1.1589	Warning
	PCB 172 (BZ)			45:19	45:16	-3		0.9007	0.9005	0.8997-0.9017	True
	PCB 192 (BZ)			45:34	45:31	-3		0.9057	0.9055	0.9047-0.9067	True
	PCB 193 (BZ)		C180	45:53	45:52	-1		0.9123	0.9125	0.9113-0.9133	True
	PCB 180 (BZ)		C180	45:56				0.9131		0.9121-0.9141	C180
	PCB 191 (BZ)			46:19	46:15	-4		0.9206	0.9201	0.9196-0.9216	True
	PCB 170 (BZ)			47:17	47:15	-2		0.9400	0.9400	0.9390-0.9410	True
	PCB 190 (BZ)			47:46	47:44	-2		0.9498	0.9496	0.9488-0.9507	True
	PCB 189 (BZ)	T		50:20	50:17	-3		1.0004	1.0003	0.9994-1.0014	True
I	13C12-PCB 202			43:08	43:05	-3	15	0.8236	0.8235	0.8204-0.8268	True
R	13C12-PCB 194			52:23	52:19	-4		1.0000	1.0000	0.9960-1.0040	True
I	13C12-PCB 205			52:50	52:46	-4	15	1.0088	1.0086	1.0040-1.0136	True
	PCB 202 (BZ)	L		43:09	43:07	-2		1.0004	1.0008	0.9984-1.0023	True
	PCB 200 (BZ)/201 (IUPAC)			44:05	44:00	-5		1.0219	1.0213	1.0199-1.0238	True
	PCB 204 (BZ)			44:43	44:38	-5		1.0367	1.0360	1.0355-1.0378	True
	PCB 197 (BZ)			44:57	44:53	-4		1.0421	1.0418	1.0409-1.0432	True
	PCB 199 (BZ)/200 (IUPAC)			45:09	45:07	-2		1.0468	1.0472	1.0457-1.0480	True
	PCB 198 (BZ)		C198	47:50	47:49	-1		1.1088	1.1099	1.1068-1.1107	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Water Table 4)

CCAL ID: 23006 - A070927S2
ICAL Date: 03/13/07
CCAL Filename: a070927s2
Method: IE4 - IE4
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070927s2/a070927s2.d
Column SN: 35055-03A
CCAL Date/Time: 09/27/07 22:14
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 189 False: 1 Warning: 21

Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
PCB 201 (BZ)/199 (IUPAC)		C198	47:54				1.1103		1.1092-1.1115	C198
PCB 196 (BZ)			48:33	48:27	-6		0.9188	0.9182	0.9179-0.9198	True
PCB 203 (BZ)			48:43	48:39	-4		0.9221	0.9220	0.9211-0.9230	True
PCB 195 (BZ)			50:04	50:04	0		0.9485	0.9488	0.9483-0.9501	True
PCB 194 (BZ)			52:24	52:20	-4		0.9919	0.9918	0.9909-0.9928	True
PCB 205 (BZ)	L		52:52	52:48	-4		1.0004	1.0006	0.9995-1.0013	True
I 13C12-PCB 208			49:46	49:40	-6	15	0.9501	0.9493	0.9469-0.9533	True
I 13C12-PCB 206			54:33	54:27	-6	15	1.0414	1.0408	1.0366-1.0462	True
PCB 208 (BZ)	L		49:47	49:42	-5		1.0004	1.0007	0.9994-1.0014	True
PCB 207 (BZ)			50:43	50:36	-7		1.0190	1.0188	1.0180-1.0200	True
PCB 206 (BZ)	L		54:34	54:29	-5		1.0003	1.0006	0.9994-1.0013	True
I 13C12-PCB 209			56:08	56:00	-8	15	1.0716	1.0704	1.0668-1.0763	True
PCB 209 (BZ)	L		56:09	56:01	-8		1.0004	1.0003	0.9995-1.0013	True

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s2/a070927s2.d	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	22:14	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	PMP				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
Total Monochlorobiphenyl		6434008	2062152			129.274026		129.274026		0.0955
13C12-PCB 1	12:17	3914121	1458367	1.318	100.0	86.157629	86.16	86.157629		0.0659
13C12-PCB 3	14:31	3896615	1127728	1.325	100.0	85.266902	85.27	85.266902		0.0655
PCB 1 (BZ)	12:18	2229659	826585	1.253	50.00	45.467345	90.93	45.467345		0.0285
PCB 2 (BZ)	14:20	2047701	616891	1.226	50.00	42.755164	85.51	42.755164		0.0328
PCB 3 (BZ)	14:32	2156648	618676	1.348	50.00	41.051516	82.10	41.051516		0.0342
Total Dichlorobiphenyl		21869338	5159473			529.775472		529.775472		1.70
13C12-PCB 4	14:48	2218225	671751	0.615	100.0	104.637461	104.64	104.637461		0.113
13C12-PCB 9	16:44	3447714	857684	1.000	100.0	100.000000	100.00	100.000000		0.0697
13C12-PCB 8	17:38	1814259	434369	1.332	50.00	46.671975	93.34	46.671975	E	0.0647
13C12-PCB 15	20:48	3617007	714273	1.065	100.0	98.526984	98.53	98.526984		0.0654
PCB 4 (BZ)	14:49	1189338	369860	1.212	50.00	44.254201	88.51	44.254201		0.184
PCB 10 (BZ)	14:58	1872639	513855	1.326	50.00	48.418863	96.84	48.418863		0.163
PCB 9 (BZ)	16:45	1857911	495008	1.445	50.00	44.060504	88.12	44.060504		0.149
PCB 7 (BZ)	16:54	1977514	493636	1.432	50.00	47.341414	94.68	47.341414		0.151
PCB 6 (BZ)	17:12	1903690	490655	1.450	50.00	44.995136	89.99	44.995136		0.149
PCB 5 (BZ)	17:32	1627138	421545	1.356	50.00	41.131891	82.26	41.131891		0.159
PCB 8 (BZ)	17:39	1803518	480212	1.477	50.00	41.855976	83.71	41.855976		0.146
PCB 14 (BZ)	19:14	2321730	498536	1.687	50.00	47.157807	94.32	47.157807		0.128
PCB 11 (BZ)	20:09	1843857	370461	1.448	50.00	43.653785	87.31	43.653785		0.149
PCB 13 (BZ)		3649450		1.454	100.0	86.030857	86.03	86.030857	C12	0.148
PCB 12 (BZ)	20:29	3649450	638636	1.454	100.0	86.030857	86.03	86.030857	C	0.148
PCB 15 (BZ)	20:49	1822553	387069	1.233	50.00	40.875037	81.75	40.875037		0.170
Total Trichlorobiphenyl		41786787	6768203			1152.27625		1152.27625		3.14
13C12-PCB 19	17:59	1646535	427562	0.558	100.0	105.832255	105.83	105.832255		0.314
13C12-PCB 32	21:14	2786447	612680	1.000	100.0	100.000000	100.00	100.000000		0.175
13C12-PCB 31	23:28	3632765	755411	1.000	100.0	100.000000	100.00	100.000000		0.142
13C12-PCB 28	23:45	1922159	361115	0.968	50.00	54.668873	109.34	54.668873	E	0.147
13C12-PCB 37	27:54	3322214	553501	0.885	100.0	103.305428	103.31	103.305428		0.161
PCB 19 (BZ)	18:00	977936	244677	1.178	50.00	50.432547	100.87	50.432547		0.200
PCB 30 (BZ)	19:41	1516453	380859	1.874	50.00	49.135852	98.27	49.135852		0.125
PCB 18 (BZ)	19:51	1048740	249827	1.262	50.00	50.464257	100.93	50.464257		0.186
PCB 17 (BZ)	20:14	1069601	262191	1.326	50.00	48.991641	97.98	48.991641		0.177
PCB 27 (BZ)	20:30	1500786	372251	1.945	50.00	46.859794	93.72	46.859794		0.121
PCB 24 (BZ)	20:36	1489150	349223	1.782	50.00	50.753125	101.51	50.753125		0.132
PCB 16 (BZ)	20:47	937653	211606	1.157	50.00	49.205300	98.41	49.205300		0.203
PCB 32 (BZ)	21:15	1640754	367257	1.966	50.00	50.675032	101.35	50.675032		0.120
PCB 34 (BZ)	22:27	1793774	426231	1.216	50.00	44.403870	88.81	44.403870		0.149
PCB 23 (BZ)	22:35	2083009	449233	1.208	50.00	51.911887	103.82	51.911887		0.150
PCB 29 (BZ)	22:56	3985204	734170	1.265	100.0	94.847119	94.85	94.847119	C26	0.144
PCB 26 (BZ)		3985204		1.265	100.0	94.847119	94.85	94.847119	C	0.144
PCB 25 (BZ)	23:10	2249361	449785	1.362	50.00	49.727829	99.46	49.727829		0.133
PCB 31 (BZ)	23:30	1959468	406580	1.285	50.00	45.883865	91.77	45.883865		0.141
PCB 28 (BZ)		3586491		1.238	100.0	87.178887	87.18	87.178887	C20	0.147
PCB 20 (BZ)	23:53	3586491	417013	1.238	100.0	87.178887	87.18	87.178887	C	0.147
PCB 21 (BZ)		4333558		1.276	100.0	102.258444	102.26	102.258444	C	0.142
PCB 33 (BZ)	24:04	4333558	470568	1.276	100.0	102.258444	102.26	102.258444	C21	0.142
PCB 22 (BZ)	24:30	1718221	379369	1.218	50.00	42.456170	84.91	42.456170		0.149
PCB 36 (BZ)	25:57	2099552	380514	1.286	50.00	49.151110	98.30	49.151110		0.141

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s2/a070927s2.d	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	22:14	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	PMP				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 39 (BZ)	26:22	2083084	387226	1.330	50.00	47.142083	94.28	47.142083		0.137
PCB 38 (BZ)	26:57	1932385	347049	1.246	50.00	46.680935	93.36	46.680935		0.146
PCB 35 (BZ)	27:28	1922897	326384	1.195	50.00	48.421300	96.84	48.421300		0.152
PCB 37 (BZ)	27:55	1858710	307373	1.224	50.00	45.695204	91.39	45.695204		0.148
Total Tetrachlorobiphenyl		58537089	7485635			1904.24747		1904.24747		6.30
13C12-PCB 54	21:08	1878459	443163	0.598	100.0	112.813008	112.81	112.813008		0.111
13C12-PCB 52	25:36	2062800	425351	1.000	100.0	100.000000	100.00	100.000000		0.0952
13C12-PCB 79	33:32	1468178	257411	1.089	50.00	48.949083	97.90	48.949083	E	0.0790
13C12-PCB 81	34:35	2699732	466237	1.286	100.0	101.737811	101.74	101.737811		0.0740
13C12-PCB 77	35:12	2810917	475085	1.297	100.0	105.048305	105.05	105.048305		0.0734
PCB 54 (BZ)	21:09	1104562	256484	1.211	50.00	48.553251	97.11	48.553251		0.189
PCB 50 (BZ)	23:16	2389287	283077	0.927	100.0	93.562447	93.56	93.562447	C	0.233
PCB 53 (BZ)		2389287		0.927	100.0	93.562447	93.56	93.562447	C50	0.233
PCB 45 (BZ)	23:59	2237777	432895	0.857	100.0	94.746001	94.75	94.746001	C	0.252
PCB 51 (BZ)		2237777		0.857	100.0	94.746001	94.75	94.746001	C45	0.252
PCB 46 (BZ)	24:19	937466	196995	0.706	50.00	48.169850	96.34	48.169850		0.305
PCB 52 (BZ)	25:37	1073478	257728	0.926	50.00	42.076497	84.15	42.076497		0.233
PCB 73 (BZ)	25:45	2510709	330024	0.957	100.0	95.181105	95.18	95.181105	C43	0.225
PCB 43 (BZ)		2510709		0.957	100.0	95.181105	95.18	95.181105	C	0.225
PCB 69 (BZ)	25:59	1436877	325319	1.180	50.00	44.176710	88.35	44.176710		0.183
PCB 49 (BZ)	26:06	1375077	273101	1.005	50.00	49.641415	99.28	49.641415		0.215
PCB 48 (BZ)	26:22	1039423	234230	0.886	50.00	42.579883	85.16	42.579883		0.243
PCB 65 (BZ)	26:37	3673174	516161	1.024	150.0	130.220879	86.81	130.220879	C44	0.211
PCB 47 (BZ)		3673174		1.024	150.0	130.220879	86.81	130.220879	C44	0.211
PCB 44 (BZ)		3673174		1.024	150.0	130.220879	86.81	130.220879	C	0.211
PCB 62 (BZ)	26:52	4862719	552854	1.297	150.0	136.120714	90.75	136.120714	C59	0.166
PCB 75 (BZ)		4862719		1.297	150.0	136.120714	90.75	136.120714	C59	0.166
PCB 59 (BZ)		4862719		1.297	150.0	136.120714	90.75	136.120714	C	0.166
PCB 42 (BZ)	27:11	1075499	217411	0.860	50.00	45.409668	90.82	45.409668		0.251
PCB 41 (BZ)	27:36	818088	194462	0.723	50.00	41.046049	82.09	41.046049		0.298
PCB 71 (BZ)	27:42	2488545	341793	0.953	100.0	94.746899	94.75	94.746899	C40	0.226
PCB 40 (BZ)		2488545		0.953	100.0	94.746899	94.75	94.746899	C	0.226
PCB 64 (BZ)	27:54	1631988	334596	1.313	50.00	45.110719	90.22	45.110719		0.164
PCB 72 (BZ)	28:37	1558416	324112	1.257	50.00	44.992569	89.99	44.992569		0.172
PCB 68 (BZ)	28:54	1509088	311088	1.327	50.00	41.268957	82.54	41.268957		0.162
PCB 57 (BZ)	29:21	1511572	307711	1.194	50.00	45.945531	91.89	45.945531		0.181
PCB 58 (BZ)	29:38	1435349	299355	1.260	50.00	41.355512	82.71	41.355512		0.171
PCB 67 (BZ)	29:46	1745404	322910	1.286	50.00	49.243773	98.49	49.243773		0.168
PCB 63 (BZ)	30:01	1532913	310273	1.339	50.00	41.559251	83.12	41.559251		0.161
PCB 61 (BZ)	30:15	1400035	296525	1.190	50.00	42.694127	85.39	42.694127		0.181
PCB 70 (BZ)		4937843		1.317	150.0	136.067110	90.71	136.067110	C	0.164
PCB 76 (BZ)	30:25	4937843	901956	1.317	150.0	136.067110	90.71	136.067110	C70	0.164
PCB 74 (BZ)		4937843		1.317	150.0	136.067110	90.71	136.067110	C70	0.164
PCB 66 (BZ)	30:45	1476575	297860	1.289	50.00	41.566774	83.13	41.566774		0.167
PCB 55 (BZ)	30:57	1398636	271606	1.161	50.00	43.739947	87.48	43.739947		0.186
PCB 56 (BZ)	31:29	1480657	294630	1.231	50.00	43.658858	87.32	43.658858		0.175
PCB 60 (BZ)	31:41	1551205	271508	1.191	50.00	47.271382	94.54	47.271382		0.181
PCB 80 (BZ)	31:54	1823546	330804	1.416	50.00	46.737142	93.47	46.737142		0.152
PCB 79 (BZ)	33:33	1786373	306638	1.371	50.00	47.298530	94.60	47.298530		0.157

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PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s2/a070927s2.d	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	22:14	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	PMP				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 78 (BZ)	34:07	1533416	259148	1.181	50.00	47.112836	94.23	47.112836		0.183
PCB 81 (BZ)	34:36	1651288	287738	1.317	50.00	46.426276	92.85	46.426276		0.165
PCB 77 (BZ)	35:13	1550104	270508	1.200	50.00	45.966807	91.93	45.966807		0.178
Total Pentachlorobiphenyl		56568585	6777092			2176.81961		2176.81961		6.45
13C12-PCB 104	26:31	2582893	553288	1.260	100.0	102.708526	102.71	102.708526		0.107
13C12-PCB 95	29:33	935296	185914	0.741	50.00	48.887352	97.77	48.887352	E	0.123
13C12-PCB 101	32:22	1996248	373311	1.000	100.0	100.000000	100.00	100.000000		0.135
13C12-PCB 111	34:59	1319992	255393	1.229	50.00	53.802430	107.60	53.802430	E	0.110
13C12-PCB 123	37:02	2949052	554262	0.955	100.0	101.781943	101.78	101.781943		0.0957
13C12-PCB 118	37:21	3162743	571284	0.988	100.0	105.455938	105.46	105.455938		0.0924
13C12-PCB 114	37:55	2886384	525277	0.971	100.0	97.952511	97.95	97.952511		0.0941
13C12-PCB 105	38:38	2807446	524717	0.941	100.0	98.267845	98.27	98.267845		0.0970
13C12-PCB 127	39:59	3035490	550288	1.000	100.0	100.000000	100.00	100.000000		0.0913
13C12-PCB 126	41:42	2926500	508143	0.978	100.0	98.595712	98.60	98.595712		0.0934
PCB 104 (BZ)	26:32	1375893	292522	1.149	50.00	46.341999	92.68	46.341999		0.162
PCB 96 (BZ)	27:03	1211664	258472	1.014	50.00	46.285098	92.57	46.285098		0.184
PCB 103 (BZ)	28:46	1053537	219288	0.866	50.00	47.080217	94.16	47.080217		0.215
PCB 94 (BZ)	29:05	916034	186836	0.703	50.00	50.463143	100.93	50.463143		0.265
PCB 95 (BZ)	29:36	2053737	377768	0.859	100.0	92.594560	92.59	92.594560	C	0.217
PCB 100 (BZ)		2053737		0.859	100.0	92.594560	92.59	92.594560	C95	0.217
PCB 93 (BZ)	29:46	868526	187287	0.701	50.00	47.939417	95.88	47.939417		0.265
PCB 102 (BZ)	29:54	2048429	263808	0.822	100.0	96.451844	96.45	96.451844	C98	0.226
PCB 98 (BZ)		2048429		0.822	100.0	96.451844	96.45	96.451844	C	0.226
PCB 88 (BZ)	30:16	812980	170586	0.723	50.00	43.539306	87.08	43.539306		0.258
PCB 91 (BZ)	30:25	1042398	213676	0.864	50.00	46.722465	93.44	46.722465		0.216
PCB 84 (BZ)	30:44	784657	164252	0.679	50.00	44.716873	89.43	44.716873		0.274
PCB 89 (BZ)	31:11	846185	174296	0.717	50.00	45.674843	91.35	45.674843		0.260
PCB 121 (BZ)	31:21	1430611	276213	1.105	50.00	50.122763	100.25	50.122763		0.168
PCB 92 (BZ)	31:49	947255	199918	0.772	50.00	47.483906	94.97	47.483906		0.241
PCB 113 (BZ)	32:23	3587611	626957	0.990	150.0	140.353990	93.57	140.353990	C90	0.188
PCB 90 (BZ)		3587611		0.990	150.0	140.353990	93.57	140.353990	C	0.188
PCB 101 (BZ)		3587611		0.990	150.0	140.353990	93.57	140.353990	C90	0.188
PCB 83 (BZ)	32:57	1920557	380065	0.777	100.0	95.740125	95.74	95.740125	C	0.240
PCB 99 (BZ)		1920557		0.777	100.0	95.740125	95.74	95.740125	C83	0.240
PCB 112 (BZ)	33:07	1384709	261642	1.079	50.00	49.687574	99.38	49.687574		0.173
PCB 109 (BZ)/108 (IUPAC)	33:26	7120620	554445	0.967	300.0	285.155401	95.05	285.155401	C86	0.193
PCB 86 (BZ)		7120620		0.967	300.0	285.155401	95.05	285.155401	C	0.193
PCB 119 (BZ)		7120620		0.967	300.0	285.155401	95.05	285.155401	C86	0.193
PCB 97 (BZ)		7120620		0.967	300.0	285.155401	95.05	285.155401	C86	0.193
PCB 125 (BZ)		7120620		0.967	300.0	285.155401	95.05	285.155401	C86	0.193
PCB 87 (BZ)		7120620		0.967	300.0	285.155401	95.05	285.155401	C86	0.193
PCB 117 (BZ)	34:09	3522052	278529	0.979	150.0	139.266754	92.84	139.266754	C85	0.190
PCB 116 (BZ)		3522052		0.979	150.0	139.266754	92.84	139.266754	C85	0.190
PCB 85 (BZ)		3522052		0.979	150.0	139.266754	92.84	139.266754	C	0.190
PCB 110 (BZ)	34:28	2662327	479225	1.139	100.0	90.517522	90.52	90.517522	C	0.163
PCB 115 (BZ)		2662327		1.139	100.0	90.517522	90.52	90.517522	C110	0.163
PCB 82 (BZ)	34:51	739704	143969	0.605	50.00	47.365206	94.73	47.365206		0.308
PCB 111 (BZ)	35:00	1436822	281800	1.129	50.00	49.283328	98.57	49.283328		0.165
PCB 120 (BZ)	35:28	1427829	275233	1.192	50.00	46.369942	92.74	46.369942		0.156

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Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s2/a070927s2.d	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	22:14	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	PMP				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 124 (BZ)		3178871		1.123	100.0	96.030694	96.03	96.030694	C108	0.171
PCB 108 (BZ)/107 (IUPAC)	36:43	3178871	580184	1.123	100.0	96.030694	96.03	96.030694	C	0.171
PCB 107 (BZ)/109 (IUPAC)	36:57	1491990	297783	1.074	50.00	47.143267	94.29	47.143267		0.179
PCB 123 (BZ)	37:04	1619498	307692	1.136	50.00	48.340715	96.68	48.340715		0.164
PCB 106 (BZ)	37:10	1569493	291451	1.046	50.00	50.922374	101.84	50.922374		0.183
PCB 118 (BZ)	37:23	1580427	290844	1.094	50.00	45.688764	91.38	45.688764		0.165
PCB 122 (BZ)	37:47	1401870	276691	1.047	50.00	45.423264	90.85	45.423264		0.183
PCB 114 (BZ)	37:56	1800802	318555	1.196	50.00	52.160484	104.32	52.160484		0.164
PCB 105 (BZ)	38:40	1575948	277604	1.218	50.00	46.082713	92.17	46.082713		0.161
PCB 127 (BZ)	40:00	1608380	297502	1.130	50.00	48.286324	96.57	48.286324		0.170
PCB 126 (BZ)	41:44	1547169	255987	1.111	50.00	47.584730	95.17	47.584730		0.182
Total Hexachlorobiphenyl		50214104	7760691			2016.47126		2016.47126		7.90
13C12-PCB 155	32:00	2685627	559315	1.178	100.0	114.213732	114.21	114.213732		0.0984
13C12-PCB 153	39:08	1139034	217056	0.833	50.00	50.619648	101.24	50.619648	E	0.138
13C12-PCB 138	40:28	2287923	433155	1.000	100.0	100.000000	100.00	100.000000		0.0998
13C12-PCB 167	43:23	2776850	517633	1.237	100.0	98.144921	98.14	98.144921		0.0807
13C12-PCB 156	44:40	5573170	559661	1.229	200.0	198.233137	99.12	198.233137		0.0813
13C12-PCB 157								ND		0.000000
13C12-PCB 169	47:50	2449650	426801	1.188	100.0	90.157322	90.16	90.157322		0.0841
PCB 155 (BZ)	32:02	1419313	289098	1.117	50.00	47.310161	94.62	47.310161		0.146
PCB 152 (BZ)	32:26	1254551	262217	1.023	50.00	45.650069	91.30	45.650069		0.160
PCB 150 (BZ)	32:31	1283290	266378	1.032	50.00	46.288412	92.58	46.288412		0.158
PCB 136 (BZ)	33:03	1210541	239957	0.967	50.00	46.634486	93.27	46.634486		0.169
PCB 145 (BZ)	33:15	1270729	253626	1.021	50.00	46.364464	92.73	46.364464		0.160
PCB 148 (BZ)	34:36	936247	185083	0.749	50.00	46.544741	93.09	46.544741		0.218
PCB 151 (BZ)		2990558		0.781	150.0	142.669412	95.11	142.669412	C135	0.210
PCB 135 (BZ)	35:25	2990558	338987	0.781	150.0	142.669412	95.11	142.669412	C	0.210
PCB 154 (BZ)		2990558		0.781	150.0	142.669412	95.11	142.669412	C135	0.210
PCB 144 (BZ)	35:51	1006925	188888	0.759	50.00	49.420472	98.84	49.420472		0.216
PCB 147 (BZ)	36:12	2290015	365297	0.862	100.0	98.423286	98.42	98.423286	C	0.282
PCB 149 (BZ)		2290015		0.862	100.0	98.423286	98.42	98.423286	C147	0.282
PCB 134 (BZ)		1897394		0.711	100.0	98.779935	98.78	98.779935	C	0.342
PCB 143 (BZ)	36:33	1897394	217833	0.711	100.0	98.779935	98.78	98.779935	C134	0.342
PCB 139 (BZ)	36:46	2294060	332209	0.856	100.0	99.296741	99.30	99.296741	C	0.284
PCB 140 (BZ)		2294060		0.856	100.0	99.296741	99.30	99.296741	C139	0.284
PCB 131 (BZ)	37:04	911072	181712	0.713	50.00	47.294615	94.59	47.294615		0.341
PCB 142 (BZ)	37:11	944698	180014	0.735	50.00	47.607327	95.21	47.607327		0.331
PCB 132 (BZ)	37:36	920183	182737	0.710	50.00	47.989502	95.98	47.989502		0.343
PCB 133 (BZ)	37:54	986944	190179	0.768	50.00	47.574142	95.15	47.574142		0.317
PCB 165 (BZ)	38:18	1346520	259472	0.993	50.00	50.233480	100.47	50.233480		0.245
PCB 146 (BZ)	38:33	1118455	223320	0.874	50.00	47.414329	94.83	47.414329		0.279
PCB 161 (BZ)	38:40	1437468	278634	1.090	50.00	48.860759	97.72	48.860759		0.223
PCB 153 (BZ)	39:10	2860603	462030	1.068	100.0	99.161984	99.16	99.161984	C	0.228
PCB 168 (BZ)		2860603		1.068	100.0	99.161984	99.16	99.161984	C153	0.228
PCB 141 (BZ)	39:26	1048472	194854	0.756	50.00	51.382375	102.76	51.382375		0.322
PCB 130 (BZ)	39:52	933507	179925	0.708	50.00	48.804600	97.61	48.804600		0.343
PCB 137 (BZ)	40:01	1110563	222644	0.835	50.00	49.256309	98.51	49.256309		0.291
PCB 164 (BZ)	40:12	1396301	264390	1.033	50.00	50.055492	100.11	50.055492		0.236
PCB 138 (BZ)	40:29	4850086	518893	0.922	200.0	194.829859	97.41	194.829859	C129	0.264

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Data File	/20070927s2/a070927s2.d	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	22:14	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	PMP				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 163 (BZ)		4850086		0.922	200.0	194.829859	97.41	194.829859	C129	0.264
PCB 129 (BZ)		4850086		0.922	200.0	194.829859	97.41	194.829859	C	0.264
PCB 160 (BZ)		4850086		0.922	200.0	194.829859	97.41	194.829859	C129	0.264
PCB 158 (BZ)	40:50	1567659	296452	1.191	50.00	48.744204	97.49	48.744204		0.204
PCB 166 (BZ)	41:42	1420128	277153	1.102	50.00	47.722488	95.44	47.722488		0.221
PCB 128 (BZ)	41:50	1032326	175788	0.769	50.00	49.731052	99.46	49.731052		0.316
PCB 159 (BZ)	42:39	1406667	260693	1.079	50.00	48.276062	96.55	48.276062		0.225
PCB 162 (BZ)	42:56	1416835	265167	1.079	50.00	48.640459	97.28	48.640459		0.226
PCB 167 (BZ)	43:25	1446699	275940	1.150	50.00	45.293919	90.59	45.293919		0.154
PCB 156 (BZ)	44:36	2770431	274077	1.151	100.0	86.405567	86.41	86.405567	C	0.284
PCB 157 (BZ)		2770431		1.151		86.405567		86.405567	C156	0.284
PCB 169 (BZ)	47:51	1434864	240174	1.337	50.00	43.810556	87.62	43.810556		0.160
Total Heptachlorobiphenyl		26703542	4408299			1120.35914		1120.35914		3.66
13C12-PCB 188	37:43	2852672	562567	1.238	100.0	108.260467	108.26	108.260467		0.0750
13C12-PCB 178	40:49	919847	192348	0.863	50.00	50.077792	100.16	50.077792	E	0.108
13C12-PCB 180	45:53	2128204	395583	1.000	100.0	100.000000	100.00	100.000000		0.0929
13C12-PCB 170	47:14	1702448	307855	0.813	100.0	98.336853	98.34	98.336853		0.114
13C12-PCB 189	50:16	2645752	491643	1.620	100.0	100.778522	100.78	100.778522		0.0739
PCB 188 (BZ)	37:45	1416401	279625	1.071	50.00	46.376149	92.75	46.376149		0.123
PCB 179 (BZ)	38:15	1345879	265450	1.200	50.00	49.250745	98.50	49.250745		0.142
PCB 184 (BZ)	38:36	1300183	264401	1.178	50.00	48.448588	96.90	48.448588		0.144
PCB 176 (BZ)	39:06	1389156	274382	1.252	50.00	48.718451	97.44	48.718451		0.136
PCB 186 (BZ)	39:34	1315381	264169	1.214	50.00	47.560460	95.12	47.560460		0.140
PCB 178 (BZ)	40:50	924994	186199	0.889	50.00	45.666957	91.33	45.666957		0.191
PCB 175 (BZ)	41:27	996650	199656	0.920	50.00	47.559282	95.12	47.559282		0.185
PCB 187 (BZ)	41:44	1051235	211578	1.009	50.00	45.752495	91.50	45.752495		0.169
PCB 182 (BZ)	41:53	1067144	210366	0.972	50.00	48.209181	96.42	48.209181		0.175
PCB 183 (BZ)	42:19	1015485	208297	0.946	50.00	47.123516	94.25	47.123516		0.180
PCB 185 (BZ)	42:29	981636	196872	0.919	50.00	46.903894	93.81	46.903894		0.185
PCB 174 (BZ)	42:41	948901	183495	0.924	50.00	45.087695	90.18	45.087695		0.184
PCB 177 (BZ)	43:06	907871	172812	0.880	50.00	45.322756	90.65	45.322756		0.193
PCB 181 (BZ)	43:25	999630	190965	0.975	50.00	45.027726	90.06	45.027726		0.174
PCB 171 (BZ)		1780637		0.835	100.0	93.627006	93.63	93.627006	C	0.204
PCB 173 (BZ)	43:43	1780637	342862	0.835	100.0	93.627006	93.63	93.627006	C171	0.204
PCB 172 (BZ)	45:16	884694	171053	0.838	50.00	46.341901	92.68	46.341901		0.203
PCB 192 (BZ)	45:31	1213063	228712	1.147	50.00	46.423861	92.85	46.423861		0.148
PCB 193 (BZ)	45:52	2361407	355736	1.134	100.0	91.428719	91.43	91.428719	C180	0.150
PCB 180 (BZ)		2361407		1.134	100.0	91.428719	91.43	91.428719	C	0.150
PCB 191 (BZ)	46:15	1295717	251659	1.228	50.00	46.337073	92.67	46.337073		0.138
PCB 170 (BZ)	47:15	834956	156026	1.058	50.00	46.373172	92.75	46.373172		0.227
PCB 190 (BZ)	47:44	1310810	240371	1.254	50.00	45.912213	91.82	45.912213		0.136
PCB 189 (BZ)	50:17	1361712	252211	1.097	50.00	46.907303	93.81	46.907303		0.137
Total Octachlorobiphenyl		12014498	2207647			552.191978		552.191978		1.25
13C12-PCB 202	43:05	2416303	464256	0.994	100.0	114.247297	114.25	114.247297		0.0884
13C12-PCB 194	52:19	1620107	306916	1.000	100.0	100.000000	100.00	100.000000		0.113
13C12-PCB 205	52:46	2366744	429263	1.407	100.0	103.846173	103.85	103.846173		0.0805
PCB 202 (BZ)	43:07	1104402	217960	0.993	50.00	46.041739	92.08	46.041739		0.0998
PCB 200 (BZ)/201 (IUPAC)	44:00	1255156	250059	1.087	50.00	47.788685	95.58	47.788685		0.0912
PCB 204 (BZ)	44:38	1136338	227905	1.033	50.00	45.512778	91.03	45.512778		0.0959

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s2/a070927s2.d	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	9/27/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	22:14	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	PMP				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 197 (BZ)	44:53	1203420	237791	1.061	50.00	46.924961	93.85	46.924961		0.0934
PCB 199 (BZ)/200 (IUPAC)	45:07	1179999	239386	1.031	50.00	47.371652	94.74	47.371652		0.0961
PCB 198 (BZ)	47:49	1606147	184089	0.761	100.0	87.369405	87.37	87.369405	C	0.130
PCB 201 (BZ)/199 (IUPAC)		1606147		0.761	100.0	87.369405	87.37	87.369405	C198	0.130
PCB 196 (BZ)	48:27	789091	152005	0.752	50.00	43.420564	86.84	43.420564		0.132
PCB 203 (BZ)	48:39	900388	173503	0.856	50.00	43.532091	87.06	43.532091		0.116
PCB 195 (BZ)	50:04	858307	154433	0.723	50.00	50.191932	100.38	50.191932		0.148
PCB 194 (BZ)	52:20	879554	160884	0.795	50.00	46.752780	93.51	46.752780		0.135
PCB 205 (BZ)	52:48	1101696	209632	0.984	50.00	47.285390	94.57	47.285390		0.109
Total Nonachlorobiphenyl		2911918	568245			139.282420		139.282420		0.267
13C12-PCB 208	49:40	2234673	461554	1.161	100.0	118.798359	118.80	118.798359		0.105
13C12-PCB 206	54:27	1473739	281379	0.823	100.0	110.574293	110.57	110.574293		0.149
PCB 208 (BZ)	49:42	1069410	208659	1.026	50.00	46.629346	93.26	46.629346		0.0755
PCB 207 (BZ)	50:36	1109766	221183	1.264	50.00	47.349513	94.70	47.349513		0.0761
PCB 206 (BZ)	54:29	732742	138403	1.097	50.00	45.303561	90.61	45.303561		0.116
13C12-PCB 209	56:00	1791908	315334	0.930	100.0	118.916688	118.92	118.916688		0.110
PCB 209 (BZ)	56:01	866730	162731	1.006	50.00	48.094392	96.19	48.094392		0.157

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IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s2/a070927s2.	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	09/27/07 22:14	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	PMP	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	308	213	123	85	1.45 *	/	
	PCB 1 (BZ)	12:18	12:19	-1	1713739	515920	635006	191579	3.32	AVB/AVB	
	PCB 2 (BZ)	14:20	14:22	-2	1570016	477685	477558	139333	3.29	ABV/ABV	
	PCB 3 (BZ)	14:32	14:32	0	1653582	503066	475580	143096	3.29	AVB/AVB	
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	300	445	120	178	0.67 *	/	
	13C12-PCB 1	12:17	12:18	-1	2984234	929887	1107154	351213	3.21	AVV/AVV	
	13C12-PCB 3	14:31	14:31	0	2982750	913865	866470	261258	3.26	ABV/ABV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	575	920	230	368	0.63 *	/	
	PCB 4 (BZ)	14:49	14:49	0	723325	466013	227887	141973	1.55	ABV/ABV	
	PCB 10 (BZ)	14:58	15:00	-2	1154145	718494	316058	197797	1.61	AVV/AVV	
	PCB 9 (BZ)	16:45	16:47	-2	1137617	720294	300370	194638	1.58	ABV/ABV	
	PCB 7 (BZ)	16:54	16:56	-2	1217493	760021	303793	189843	1.60	AVV/AVV	
	PCB 6 (BZ)	17:12	17:13	-1	1180873	722817	305489	185166	1.63	AVB/AVB	
	PCB 5 (BZ)	17:32	17:32	0	1004719	622419	260089	161456	1.61	ABV/ABV	
	PCB 8 (BZ)	17:39	17:39	0	1122604	680914	298738	181474	1.65	AVB/AVB	
	PCB 14 (BZ)	19:14	19:14	0	1412407	909323	306472	192064	1.55	ABV/ABV	
	PCB 11 (BZ)	20:09	20:09	0	1137762	706095	224730	145731	1.61	ABV/ABV	
	PCB 12 (BZ)	20:29	20:28	1	2252945	1396505	393105	245531	1.61	AVV/AVV	
	PCB 15 (BZ)	20:49	20:46	3	1136207	686346	241715	145354	1.66	AVB/AVB	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	323	275	129	110	1.17 *	/	
	13C12-PCB 4	14:48	14:48	0	1368135	850090	413029	258722	1.61	ABV/ABV	
	13C12-PCB 9	16:44	16:45	-1	2121602	1326112	524614	333070	1.60	ABV/AVV	
	13C12-PCB 8	17:38	17:37	1	1121441	692818	268946	165423	1.62	AVV/AVV	
	13C12-PCB 15	20:48	20:46	2	2228058	1388949	440432	273841	1.60	ABV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	580	425	232	170	1.36 *	/	
	PCB 19 (BZ)	18:00	18:00	0	509737	468199	128783	115894	1.09	ABV/ABV	
	PCB 30 (BZ)	19:41	19:43	-2	798787	717666	200913	179946	1.11	ABV/ABV	D
	PCB 18 (BZ)	19:51	19:50	1	545208	503532	128491	121336	1.08	AVB/AVB	
	PCB 17 (BZ)	20:14	20:15	-1	556458	513143	137710	124481	1.08	ABB/ABV	
	PCB 27 (BZ)	20:30	20:30	0	772390	728396	192910	179341	1.06	ABV/AVV	
	PCB 24 (BZ)	20:36	20:36	0	772677	716473	180706	168517	1.08	AVV/AVV	
	PCB 16 (BZ)	20:47	20:46	1	485616	452037	112804	98802	1.07	AVB/AVB	
	PCB 32 (BZ)	21:15	21:16	-1	845008	795746	188513	178744	1.06	ABB/ABB	
	PCB 34 (BZ)	22:27	22:29	-2	911671	882103	216987	209244	1.03	ABV/ABV	D
	PCB 23 (BZ)	22:35	22:36	-1	1073331	1009678	228596	220637	1.06	AVB/AVB	D
	PCB 29 (BZ)	22:56	22:55	1	2036066	1949138	373991	360179	1.04	ABV/ABV	
	PCB 25 (BZ)	23:10	23:09	1	1159315	1090046	232121	217664	1.06	AVV/AVV	
	PCB 31 (BZ)	23:30	23:30	0	1012341	947127	212462	194118	1.07	AVV/AVV	
	PCB 20 (BZ)	23:53	23:51	2	1845732	1740759	213975	203038	1.06	ABV/ABV	

Notes:
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T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s2/a070927s2.	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	09/27/07 22:14	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	PMP	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	PCB 33 (BZ)	24:04	24:04	0	2214151	2119407	243694	226874	1.04	AVV/AVV	
	PCB 22 (BZ)	24:30	24:28	2	884857	833364	193258	186111	1.06	ABB/ABB	
	PCB 36 (BZ)	25:57	25:59	-2	1087988	1011564	196884	183630	1.08	AVV/AVV	D
	PCB 39 (BZ)	26:22	26:20	2	1062534	1020550	197350	189876	1.04	AVV/AVV	
	PCB 38 (BZ)	26:57	26:56	1	987350	945035	178180	168869	1.04	AVV/AVV	
	PCB 35 (BZ)	27:28	27:26	2	979046	943851	163462	162922	1.04	ABV/ABV	
	PCB 37 (BZ)	27:55	27:51	4	953500	905210	156953	150420	1.05	AVV/AVV	
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	610	465	244	186	1.31 *	/	
	13C12-PCB 19	17:59	17:58	1	867528	779007	224746	202816	1.11	AVV/AVV	
	13C12-PCB 32	21:14	21:14	0	1471167	1315280	325480	287200	1.12	ABV/AVV	
	13C12-PCB 31	23:28	23:28	0	1887988	1744777	390658	364753	1.08	ABV/ABV	
	13C12-PCB 28	23:45	23:45	0	1003628	918531	187966	173149	1.09	AVV/AVV	
	13C12-PCB 37	27:54	27:49	5	1741873	1580341	290201	263300	1.10	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	465	550	186	220	0.85	/	
	PCB 54 (BZ)	21:09	21:08	1	491213	613349	115062	141422	0.80	ABB/ABB	
	PCB 50 (BZ)	23:16	23:14	2	1046065	1343222	124522	158555	0.78	ABV/ABV	
	PCB 45 (BZ)	23:59	23:57	2	986519	1251258	195261	237634	0.79	ABV/AVV	
	PCB 46 (BZ)	24:19	24:18	1	405414	532052	84792	112203	0.76	AVV/AVV	
	PCB 52 (BZ)	25:37	25:38	-1	479535	593943	115349	142379	0.81	ABV/ABV	D
	PCB 73 (BZ)	25:45	25:45	0	1099110	1411599	145127	184897	0.78	AVV/AVV	D
	PCB 69 (BZ)	25:59	26:00	-1	623353	813524	142353	182966	0.77	AVV/AVV	
	PCB 49 (BZ)	26:06	26:07	-1	609943	765134	120466	152635	0.80	AVB/AVB	
	PCB 48 (BZ)	26:22	26:23	-1	457560	581863	103855	130375	0.79	ABV/ABB	D
	PCB 65 (BZ)	26:37	26:36	1	1623494	2049680	230592	285569	0.79	AVV/ABV	
	PCB 62 (BZ)	26:52	26:52	0	2141740	2720979	242294	310560	0.79	AVV/AVV	
	PCB 42 (BZ)	27:11	27:11	0	458223	617276	95200	122211	0.74	AVB/AVB	D
	PCB 41 (BZ)	27:36	27:35	1	352808	465280	85796	108666	0.76	ABV/ABV	
	PCB 71 (BZ)	27:42	27:40	2	1093075	1395470	149166	192627	0.78	AVV/AVV	
	PCB 64 (BZ)	27:54	27:52	2	717973	914015	146114	188482	0.79	AVB/AVB	D
	PCB 72 (BZ)	28:37	28:40	-3	687142	871274	144237	179875	0.79	ABV/ABV	D
	PCB 68 (BZ)	28:54	28:55	-1	652188	856900	134405	176683	0.76	AVB/AVB	
	PCB 57 (BZ)	29:21	29:22	-1	670340	841232	138565	169146	0.80	ABV/ABV	
	PCB 58 (BZ)	29:38	29:38	0	636648	798701	135275	164080	0.80	AVV/AVV	
	PCB 67 (BZ)	29:46	29:45	1	774705	970699	145928	176982	0.80	AVV/AVV	
	PCB 63 (BZ)	30:01	30:03	-2	686423	846490	138429	171844	0.81	AVV/AVB	
	PCB 61 (BZ)	30:15	30:16	-1	626498	773537	131433	165092	0.81	AVV/ABV	
	PCB 76 (BZ)	30:25	30:24	1	2175421	2762422	400177	501779	0.79	AVB/AVB	
	PCB 66 (BZ)	30:45	30:44	1	641605	834970	133758	164102	0.77	ABV/ABV	
	PCB 55 (BZ)	30:57	30:56	1	615461	783175	121458	150148	0.79	AVB/AVB	
	PCB 56 (BZ)	31:29	31:26	3	656129	824528	129880	164750	0.80	ABV/ABV	
	PCB 60 (BZ)	31:41	31:38	3	687542	863663	118955	152553	0.80	AVV/AVV	
	PCB 80 (BZ)	31:54	31:54	0	796378	1027168	147884	182920	0.78	AVB/AVB	D

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Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s2/a070927s2.	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	09/27/07 22:14	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	PMP	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	PCB 79 (BZ)	33:33	33:32	1	793935	992438	135943	170695	0.80	ABV/ABV	
	PCB 78 (BZ)	34:07	34:07	0	655277	878139	113791	145357	0.75	ABV/AVV	
	PCB 81 (BZ)	34:36	34:34	2	725858	925430	127083	160655	0.78	AVV/AVV	
	PCB 77 (BZ)	35:13	35:08	5	679235	870869	119193	151315	0.78	ABV/ABV	M
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	210	195	84	78	1.08 *	/	
	13C12-PCB 54	21:08	21:07	1	828538	1049921	201162	242001	0.79	ABV/ABV	
	13C12-PCB 52	25:36	25:37	-1	897561	1165239	185684	239667	0.77	ABV/ABV	
	13C12-PCB 79	33:32	33:30	2	645285	822893	113842	143569	0.78	ABV/ABV	
	13C12-PCB 81	34:35	34:32	3	1191760	1507972	206949	259288	0.79	ABV/ABV	
	13C12-PCB 77	35:12	35:07	5	1227790	1583127	206127	268958	0.78	ABV/ABV	M
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	543	488	217	195	1.11 *	/	
	PCB 104 (BZ)	26:32	26:34	-2	856785	519108	179537	112985	1.65	ABV/ABV	
	PCB 96 (BZ)	27:03	27:03	0	760558	451106	161518	96954	1.69	AVV/AVV	
	PCB 103 (BZ)	28:46	28:50	-4	649799	403738	138098	81190	1.61	ABV/ABV	M
	PCB 94 (BZ)	29:05	29:06	-1	567827	348207	119110	67726	1.63	AVV/AVV	
	PCB 95 (BZ)	29:36	29:36	0	1268451	785286	230663	147105	1.62	ABV/ABV	
	PCB 93 (BZ)	29:46	29:45	1	536041	332485	116722	70565	1.61	AVV/AVV	
	PCB 102 (BZ)	29:54	29:53	1	1268203	780226	163439	100369	1.63	AVB/AVB	
	PCB 88 (BZ)	30:16	30:18	-2	504072	308908	105666	64920	1.63	ABV/ABV	
	PCB 91 (BZ)	30:25	30:25	0	646002	396396	132557	81119	1.63	AVB/AVV	
	PCB 84 (BZ)	30:44	30:42	2	482442	302215	100972	63280	1.60	ABB/AVB	
	PCB 89 (BZ)	31:11	31:10	1	524426	321759	108706	65590	1.63	ABV/ABV	
	PCB 121 (BZ)	31:21	31:23	-2	884472	546139	170700	105513	1.62	AVV/AVV	
	PCB 92 (BZ)	31:49	31:51	-2	596227	351028	123715	76203	1.70	ABB/ABB	
	PCB 113 (BZ)	32:23	32:23	0	2201368	1386243	381500	245457	1.59	ABV/ABV	
	PCB 83 (BZ)	32:57	32:57	0	1172608	747949	229886	150179	1.57	ABV/ABV	
	PCB 112 (BZ)	33:07	33:07	0	871585	513124	163808	97834	1.70	AVB/AVB	
	PCB 109 (BZ)/108 (IUPAC	33:26	33:27	-1	4399178	2721442	342299	212146	1.62	ABB/ABB	
	PCB 117 (BZ)	34:09	34:08	1	2191452	1330600	172858	105671	1.65	ABV/ABV	
	PCB 110 (BZ)	34:28	34:27	1	1657522	1004805	299503	179722	1.65	AVB/AVB	
	PCB 82 (BZ)	34:51	34:48	3	450611	289093	89546	54423	1.56	ABV/AVV	
	PCB 111 (BZ)	35:00	35:02	-2	886167	550655	171310	110490	1.61	AVV/AVB	D
	PCB 120 (BZ)	35:28	35:30	-2	874128	553701	172158	103075	1.58	AVB/AVV	D
	PCB 108 (BZ)/107 (IUPAC	36:43	36:42	1	1948194	1230677	353194	226990	1.58	AVV/AVV	
	PCB 107 (BZ)/109 (IUPAC	36:57	36:56	1	910091	581899	181112	116671	1.56	AVV/AVV	
	PCB 123 (BZ)	37:04	37:02	2	992458	627040	188296	119396	1.58	AVV/AVV	
	PCB 106 (BZ)	37:10	37:11	-1	984695	584798	180842	110609	1.68	AVV/AVV	
	PCB 118 (BZ)	37:23	37:23	0	969715	610712	177912	112932	1.59	AVB/AVB	
	PCB 122 (BZ)	37:47	37:47	0	867548	534322	168253	108438	1.62	ABV/ABV	
	PCB 114 (BZ)	37:56	37:54	2	1110607	690195	198304	120251	1.61	AVB/AVV	
	PCB 105 (BZ)	38:40	38:37	3	974317	601631	173620	103984	1.62	ABB/ABB	
	PCB 127 (BZ)	40:00	40:00	0	1006992	601388	184613	112889	1.67	AVV/AVV	D

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s2/a070927s2.	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	09/27/07 22:14	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	PMP	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	PCB 126 (BZ)	41:44	41:38	6	948995	598174	160185	95802	1.59	ABV/ABB	M
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	273	230	109	92	1.18 *	/	
	13C12-PCB 104	26:31	26:32	-1	1614554	968339	341164	212124	1.67	ABV/ABV	
	13C12-PCB 95	29:33	29:33	0	583283	352013	113799	72115	1.66	ABV/ABV	
	13C12-PCB 101	32:22	32:23	-1	1233317	762931	230734	142577	1.62	ABV/ABV	
	13C12-PCB 111	34:59	35:00	-1	814133	505859	157990	97403	1.61	ABV/ABV	
	13C12-PCB 123	37:02	37:02	0	1824299	1124753	342755	211507	1.62	ABV/ABV	
	13C12-PCB 118	37:21	37:21	0	1946227	1216516	351112	220172	1.60	AVV/AVV	
	13C12-PCB 114	37:55	37:52	3	1775061	1111323	319400	205877	1.60	AVV/AVV	
	13C12-PCB 105	38:38	38:35	3	1737875	1069571	323753	200964	1.62	ABB/ABB	
	13C12-PCB 127	39:59	39:58	1	1876794	1158696	340069	210219	1.62	ABV/ABV	
	13C12-PCB 126	41:42	41:37	5	1790633	1135867	310734	197409	1.58	ABV/ABV	M
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	505	410	202	164	1.23	/	
	PCB 155 (BZ)	32:02	32:05	-3	801423	617890	167382	121716	1.30	ABB/ABV	
	PCB 152 (BZ)	32:26	32:27	-1	707875	546676	146355	115862	1.29	ABV/ABV	M
	PCB 150 (BZ)	32:31	32:33	-2	731417	551873	151204	115174	1.33	AVB/AVB	M
	PCB 136 (BZ)	33:03	33:02	1	684131	526410	135662	104295	1.30	ABV/ABV	
	PCB 145 (BZ)	33:15	33:15	0	719021	551708	146624	107002	1.30	AVB/AVB	
	PCB 148 (BZ)	34:36	34:39	-3	523823	412424	101816	83267	1.27	ABV/ABV	
	PCB 135 (BZ)	35:25	35:23	2	1685460	1305098	191467	147520	1.29	AVV/ABV	
	PCB 144 (BZ)	35:51	35:52	-1	554325	452600	105063	83825	1.22	AVB/AVB	
	PCB 147 (BZ)	36:12	36:13	-1	1262762	1027253	201965	163332	1.23	ABV/ABV	
	PCB 143 (BZ)	36:33	36:35	-2	1050217	847177	121407	96426	1.24	AVV/AVV	
	PCB 139 (BZ)	36:46	36:47	-1	1285565	1008495	185409	146800	1.27	AVV/AVV	
	PCB 131 (BZ)	37:04	37:03	1	507982	403090	101135	80577	1.26	AVV/AVV	
	PCB 142 (BZ)	37:11	37:13	-2	524560	420138	99737	80277	1.25	AVB/AVB	
	PCB 132 (BZ)	37:36	37:35	1	517884	402299	103253	79484	1.29	ABB/ABB	
	PCB 133 (BZ)	37:54	37:56	-2	553467	433477	107430	82749	1.28	ABB/ABB	
	PCB 165 (BZ)	38:18	38:19	-1	755064	591456	144510	114962	1.28	ABV/ABV	
	PCB 146 (BZ)	38:33	38:33	0	622045	496410	126696	96624	1.25	AVV/AVV	
	PCB 161 (BZ)	38:40	38:42	-2	802219	635249	152697	125937	1.26	AVB/AVB	
	PCB 153 (BZ)	39:10	39:11	-1	1594802	1265801	255875	206155	1.26	ABV/ABV	
	PCB 141 (BZ)	39:26	39:25	1	587744	460728	108601	86253	1.28	AVB/AVB	
	PCB 130 (BZ)	39:52	39:51	1	522662	410845	99066	80859	1.27	ABV/ABV	
	PCB 137 (BZ)	40:01	40:02	-1	616487	494076	125013	97631	1.25	AVV/AVV	
	PCB 164 (BZ)	40:12	40:11	1	782499	613802	148651	115739	1.27	AVV/AVV	
	PCB 138 (BZ)	40:29	40:29	0	2702029	2148057	291992	226901	1.26	AVV/AVV	
	PCB 158 (BZ)	40:50	40:49	1	876220	691439	166529	129923	1.27	AVB/AVB	
	PCB 166 (BZ)	41:42	41:40	2	792958	627170	153168	123985	1.26	AVV/ABV	
	PCB 128 (BZ)	41:50	41:47	3	573965	458361	96946	78842	1.25	AVV/AVV	
	PCB 159 (BZ)	42:39	42:39	0	782113	624554	144262	116431	1.25	AVV/AVV	
	PCB 162 (BZ)	42:56	42:56	0	795242	621593	150234	114933	1.28	AVV/AVV	

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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s2/a070927s2.	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	09/27/07 22:14	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	PMP	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	PCB 167 (BZ)	43:25	43:26	-1	807159	639540	156988	118952	1.26	ABB/ABB	
	PCB 156 (BZ)	44:36	44:35	1	1532596	1237835	153825	120252	1.24	ABV/ABB	
	PCB 169 (BZ)	47:51	47:48	3	799725	635139	135156	105018	1.26	ABV/AVV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	223	210	89	84	1.06	/	
	13C12-PCB 155	32:00	32:04	-4	1502331	1183296	311171	248144	1.27	ABV/ABV	M
	13C12-PCB 153	39:08	39:08	0	641158	497876	120592	96464	1.29	ABV/ABV	
	13C12-PCB 138	40:28	40:27	1	1298408	989515	246787	186368	1.31	ABV/ABV	
	13C12-PCB 167	43:23	43:23	0	1561418	1215432	294045	223588	1.28	AVV/ABV	
	13C12-PCB 156	44:40	44:32	8	3132162	2441008	316026	243635	1.28	ABV/AVV	M
	13C12-PCB 169	47:50	47:47	3	1377062	1072588	242148	184653	1.28	ABV/ABV	
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	400	340	160	136	1.18	/	
	PCB 188 (BZ)	37:45	37:48	-3	723252	693149	140640	138985	1.04	ABV/ABV	
	PCB 179 (BZ)	38:15	38:15	0	690315	655564	136871	128579	1.05	AVV/AVV	D
	PCB 184 (BZ)	38:36	38:39	-3	663627	636556	134074	130327	1.04	AVV/AVV	
	PCB 176 (BZ)	39:06	39:07	-1	706583	682573	143014	131368	1.04	AVV/ABV	
	PCB 186 (BZ)	39:34	39:34	0	671086	644295	136328	127841	1.04	ABV/AVV	D
	PCB 178 (BZ)	40:50	40:52	-2	483175	441819	93719	92480	1.09	ABV/ABV	
	PCB 175 (BZ)	41:27	41:29	-2	509175	487475	103662	95994	1.04	ABV/ABV	
	PCB 187 (BZ)	41:44	41:45	-1	541967	509268	109586	101992	1.06	AVV/AVV	
	PCB 182 (BZ)	41:53	41:56	-3	543541	523603	107680	102686	1.04	AVB/AVB	
	PCB 183 (BZ)	42:19	42:21	-2	524570	490915	106540	101757	1.07	ABV/ABV	
	PCB 185 (BZ)	42:29	42:30	-1	506732	474904	102777	94095	1.07	AVV/AVV	
	PCB 174 (BZ)	42:41	42:40	1	491497	457404	91877	91618	1.07	AVB/AVV	D
	PCB 177 (BZ)	43:06	43:07	-1	463616	444255	91641	81171	1.04	ABB/ABB	
	PCB 181 (BZ)	43:25	43:27	-2	513570	486060	98308	92657	1.06	ABB/ABB	
	PCB 173 (BZ)	43:43	43:42	1	913017	867620	174954	167908	1.05	ABB/ABB	D
	PCB 172 (BZ)	45:16	45:17	-1	456990	427704	88207	82846	1.07	ABV/ABV	
	PCB 192 (BZ)	45:31	45:32	-1	622634	590429	117533	111179	1.05	AVV/AVV	
	PCB 193 (BZ)	45:52	45:51	1	1214622	1146785	186127	169609	1.06	AVV/AVV	
	PCB 191 (BZ)	46:15	46:16	-1	649682	646035	123397	128262	1.01	AVV/AVB	
	PCB 170 (BZ)	47:15	47:14	1	434038	400918	82970	73056	1.08	ABV/ABV	
	PCB 190 (BZ)	47:44	47:43	1	675579	635231	125615	114756	1.06	AVV/ABB	
	PCB 189 (BZ)	50:17	50:16	1	689235	672477	128893	123318	1.02	AVV/ABV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	185	183	74	73	1.01	/	
	13C12-PCB 188	37:43	37:47	-4	1466590	1386082	291699	270868	1.06	ABV/ABV	
	13C12-PCB 178	40:49	40:50	-1	475315	444532	100614	91734	1.07	ABV/ABV	
	13C12-PCB 180	45:53	45:53	0	1091437	1036767	200797	194786	1.05	ABV/ABV	
	13C12-PCB 170	47:14	47:12	2	866008	836440	155601	152254	1.04	ABV/ABV	
	13C12-PCB 189	50:16	50:14	2	1365508	1280244	250899	240744	1.07	ABV/ABV	
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		

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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070927s2/a070927s2.	Prep Date		SDG No	
Analysis ID	99486	Prep Exp Date		Date Received	
Analysis Date	09/27/07 22:14	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	PMP	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	213	248	85	99	0.86	/	
	PCB 202 (BZ)	43:07	43:08	-1	526811	577591	102515	115445	0.91	ABV/ABV	
	PCB 200 (BZ)/201 (IUPAC	44:00	44:03	-3	593347	661809	116119	133940	0.90	ABV/ABV	
	PCB 204 (BZ)	44:38	44:41	-3	522335	614003	105760	122145	0.85	ABV/ABV	
	PCB 197 (BZ)	44:53	44:55	-2	565249	638171	114961	122830	0.89	AVV/AVV	
	PCB 199 (BZ)/200 (IUPAC	45:07	45:07	0	556087	623912	111553	127833	0.89	AVB/AVB	
	PCB 198 (BZ)	47:49	47:47	2	752648	853499	85802	98287	0.88	ABV/ABV	
	PCB 196 (BZ)	48:27	48:30	-3	371701	417390	70504	81501	0.89	ABV/ABV	
	PCB 203 (BZ)	48:39	48:40	-1	422217	478171	79995	93508	0.88	AVB/AVV	
	PCB 195 (BZ)	50:04	50:00	4	399663	458644	72372	82061	0.87	ABV/ABV	M
	PCB 194 (BZ)	52:20	52:19	1	414208	465346	76630	84254	0.89	ABV/ABV	
	PCB 205 (BZ)	52:48	52:47	1	519042	582654	98775	110857	0.89	AVV/AVV	
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	175	173	70	69	1.01	/	
	13C12-PCB 202	43:05	43:07	-2	1150178	1266125	216066	248190	0.91	ABV/ABV	
	13C12-PCB 194	52:19	52:18	1	769671	850436	147293	159623	0.91	ABV/ABV	
	13C12-PCB 205	52:46	52:45	1	1115305	1251439	204410	224853	0.89	AVV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	185	173	74	69	1.07 *	/	
	PCB 208 (BZ)	49:42	49:43	-1	465326	604084	91024	117635	0.77	ABV/ABV	
	PCB 207 (BZ)	50:36	50:39	-3	488853	620913	92724	128459	0.79	ABV/ABV	
	PCB 206 (BZ)	54:29	54:28	1	319361	413381	59648	78755	0.77	ABV/ABV	
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	180	195	72	78	0.92 *	/	
	13C12-PCB 208	49:40	49:42	-2	983710	1250963	205856	255698	0.79	ABV/ABV	
	13C12-PCB 206	54:27	54:27	0	658099	815640	123436	157943	0.81	AVV/ABV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	160	338	64	135	0.47 *	/	
	PCB 209 (BZ)	56:01	56:02	-1	361939	504791	68790	93941	0.72	ABV/ABV	
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	163	153	65	61	1.07 *	/	
	13C12-PCB 209	56:00	56:01	-1	745953	1045955	132018	183316	0.71	ABV/ABV	

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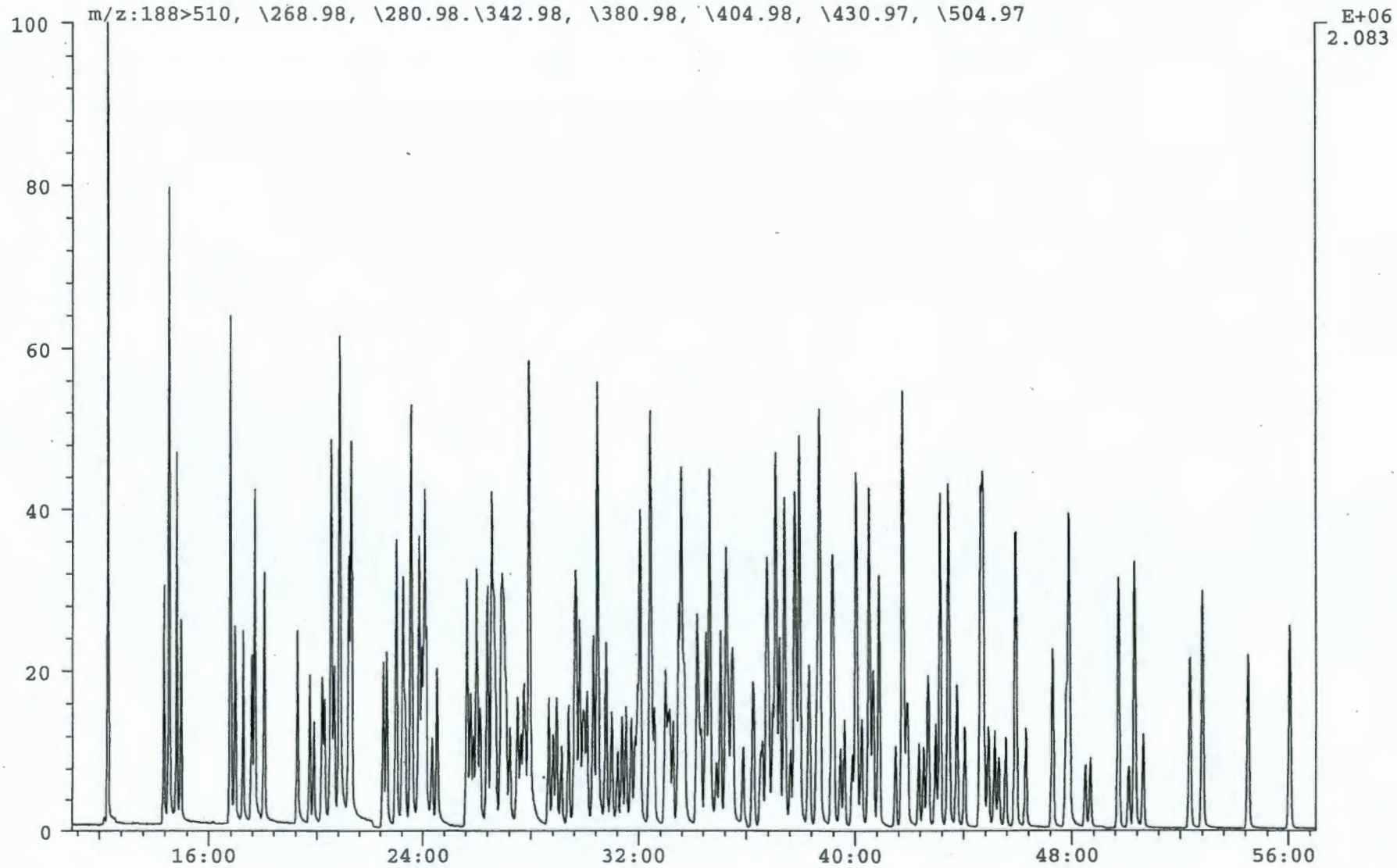
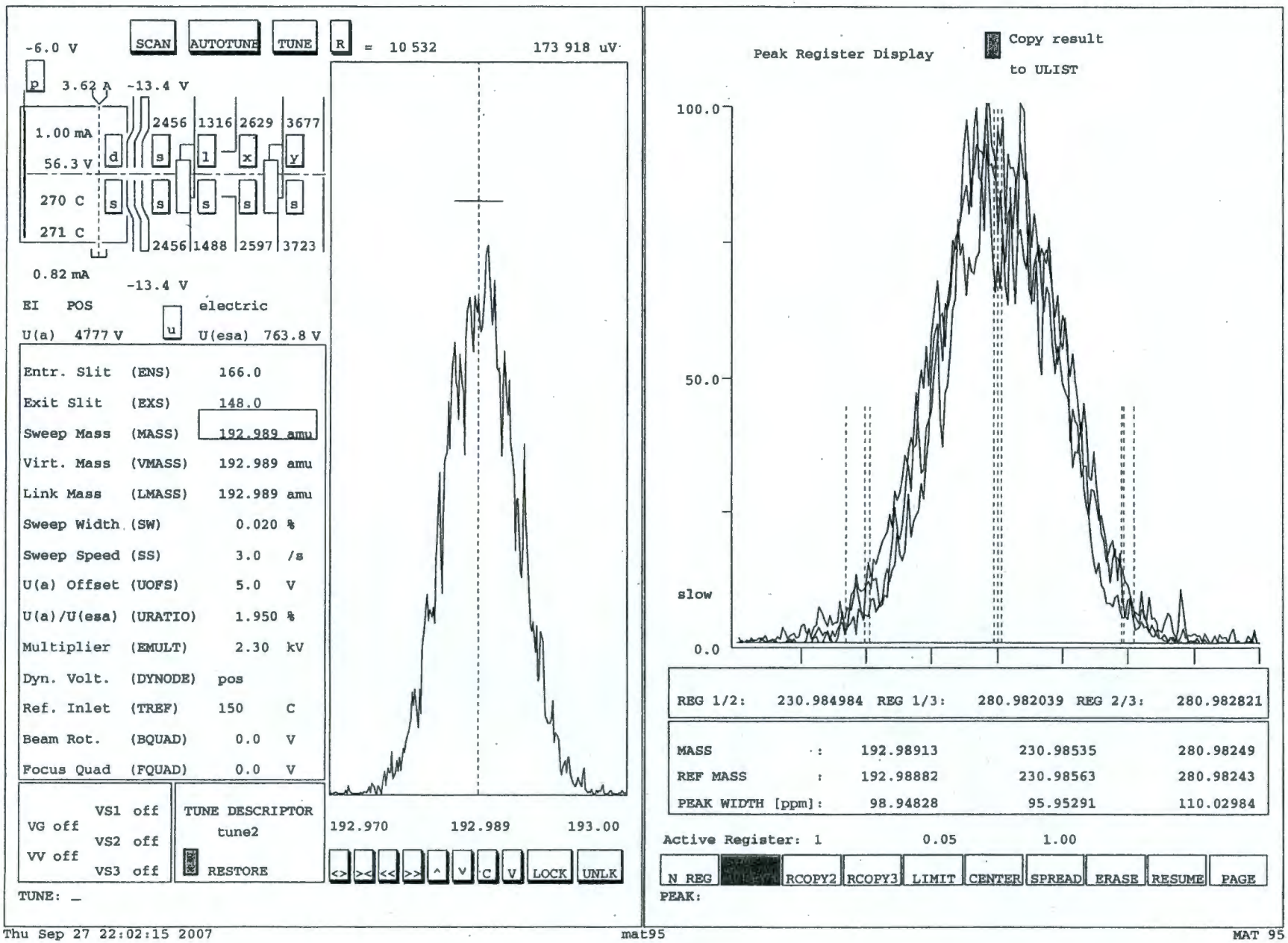
CHRO: a070927s2 27-Sep-07 Elapse: 11:00.8 1 Intcalc PMP 9-27-07
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602 QCD 9/28/7
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 2 > 2602 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



2221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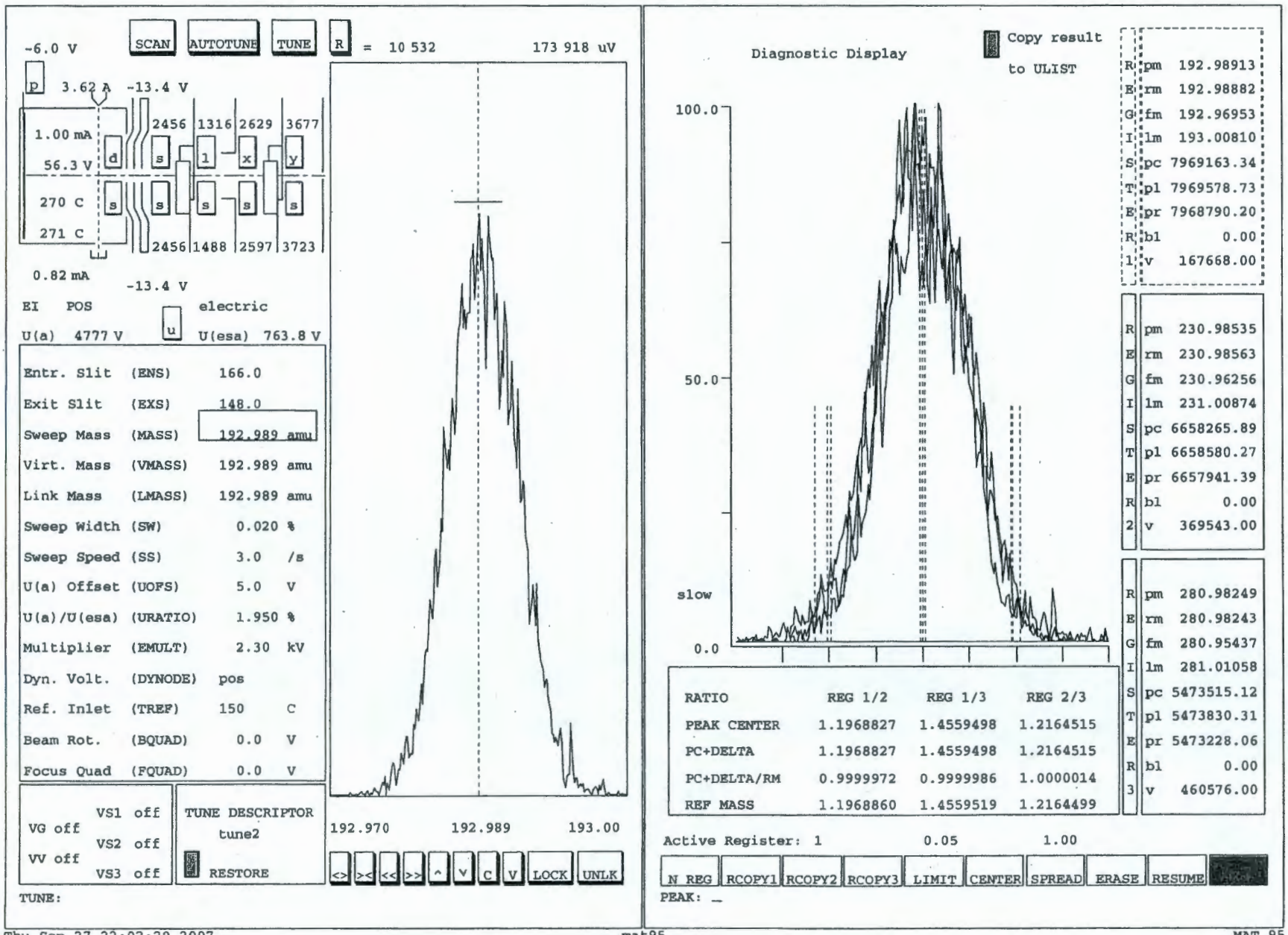
SCAN
AUTOTUNE
TUNE
R
= 10 532
173 918 uV
p
3.62 A
-13.4 V
1.00 mA
56.3 V
2456
1316
2629
3677
d
s
l
x
y
270 C
271 C
2456
1488
2597
3723
0.82 mA
-13.4 V
EI POS
electric
U(a) 4777 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 192.989 amu
Virt. Mass (VMASS) 192.989 amu
Link Mass (LMASS) 192.989 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.950 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VS3 off
VV off
TUNE DESCRIPTOR
tune2
RESTORE
192.970
192.989
193.00
<>
><
<<
>>
^
v
C
V
LOCK
UNLK
TUNE: _
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 230.984984 REG 1/3: 280.982039 REG 2/3: 280.982821
MASS : 192.98913 230.98535 280.98249
REF MASS : 192.98882 230.98563 280.98243
PEAK WIDTH [ppm]: 98.94828 95.95291 110.02984
Active Register: 1 0.05 1.00
N REG
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PAGE
PEAK:
Thu Sep 27 22:02:15 2007
mat95
MAT 95

2222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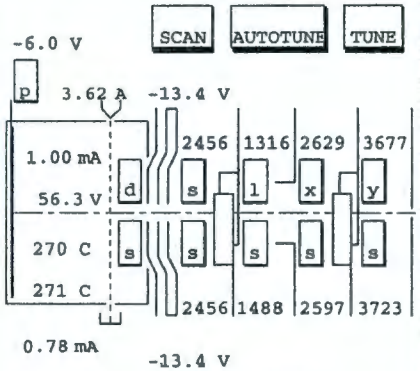
SCAN
AUTOTUNE
TUNE
R = 10 532
173 918 uV
p
3.62 A
-13.4 V
1.00 mA
56.3 V
270 C
271 C
2456 1316 2629 3677
2456 1488 2597 3723
0.82 mA
-13.4 V
EI POS
electric
U(a) 4777 V
U(esa) 763.8 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 192.989 amu
Virt. Mass (VMASS) 192.989 amu
Link Mass (LMASS) 192.989 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.950 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
RESTORE
192.970 192.989 193.00
LOCK UNLK
TUNE:
Diagnostic Display
Copy result to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1968827 1.4559498 1.2164515
PC+DELTA 1.1968827 1.4559498 1.2164515
PC+DELTA/RM 0.9999972 0.9999986 1.0000014
REF MASS 1.1968860 1.4559519 1.2164499
REGIST 1 pm 192.98913 rm 192.98882 fm 192.96953 lm 193.00810 pc 7969163.34 pl 7969578.73 pr 7968790.20 bl 0.00 v 167668.00
REGIST 2 pm 230.98535 rm 230.98563 fm 230.96256 lm 231.00874 pc 6658265.89 pl 6658580.27 pr 6657941.39 bl 0.00 v 369543.00
REGIST 3 pm 280.98249 rm 280.98243 fm 280.95437 lm 281.01058 pc 5473515.12 pl 5473830.31 pr 5473228.06 bl 0.00 v 460576.00
Active Register: 1 0.05 1.00
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME
PEAK: _
Thu Sep 27 22:02:29 2007
mat95
MAT 95

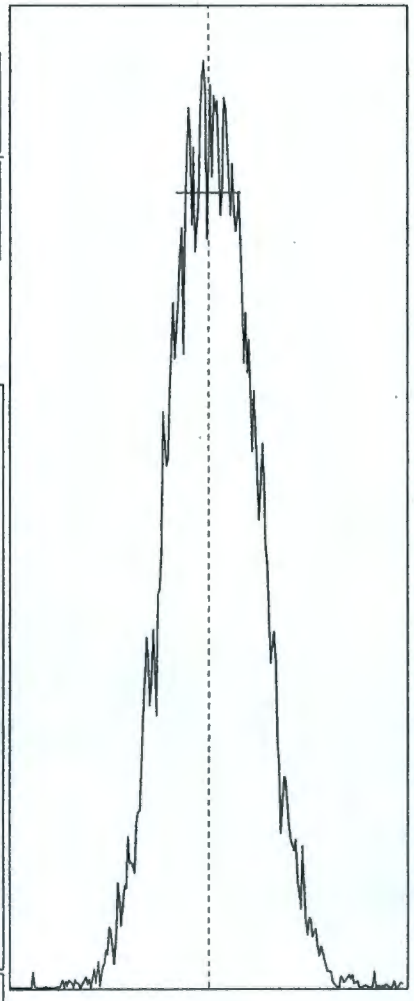
2223



Entr. Slit	(ENS)	166.0	
Exit Slit	(EXS)	148.0	
Sweep Mass	(MASS)	268.982	amu
Virt. Mass	(VMASS)	268.982	amu
Link Mass	(LMASS)	268.982	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.950	%
Multiplier	(EMULT)	2.30	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off
VV off
VS1 off
VS2 off
VS3 off

TUNE DESCRIPTOR
tune2
RESTORE

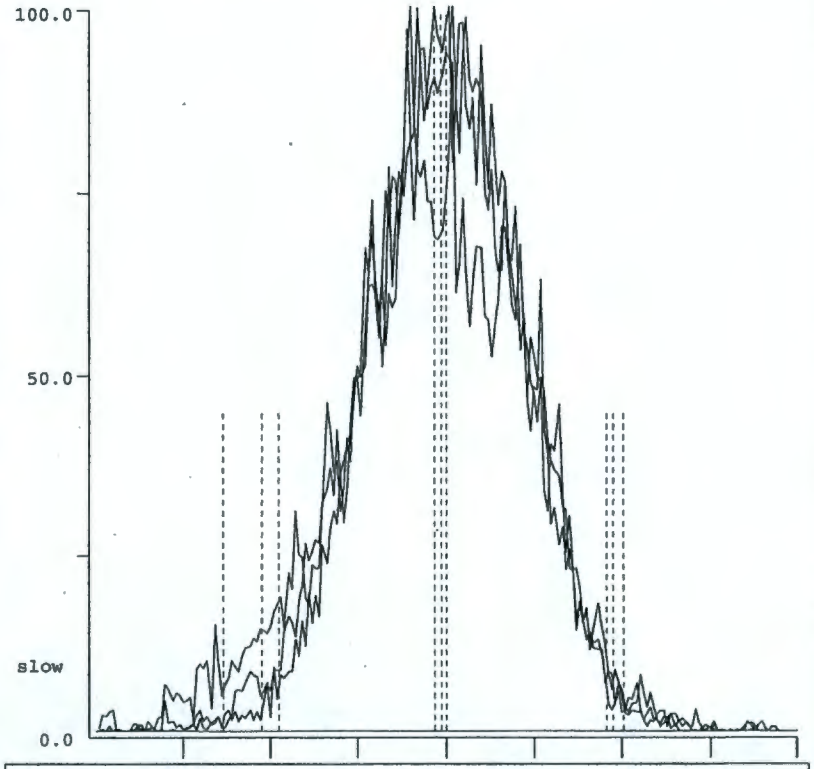


<> >< << >> ^ v c v LOCK UNLK

TUNE: _

Peak Register Display

Copy result to ULIST



REG 1/2: 292.982018 REG 1/3: 380.974751 REG 2/3: 380.975291

MASS	:	268.98248	292.98207	380.97481
REF MASS	:	268.98243	292.98243	380.97605
PEAK WIDTH [ppm]	:	94.95023	97.98151	113.96889

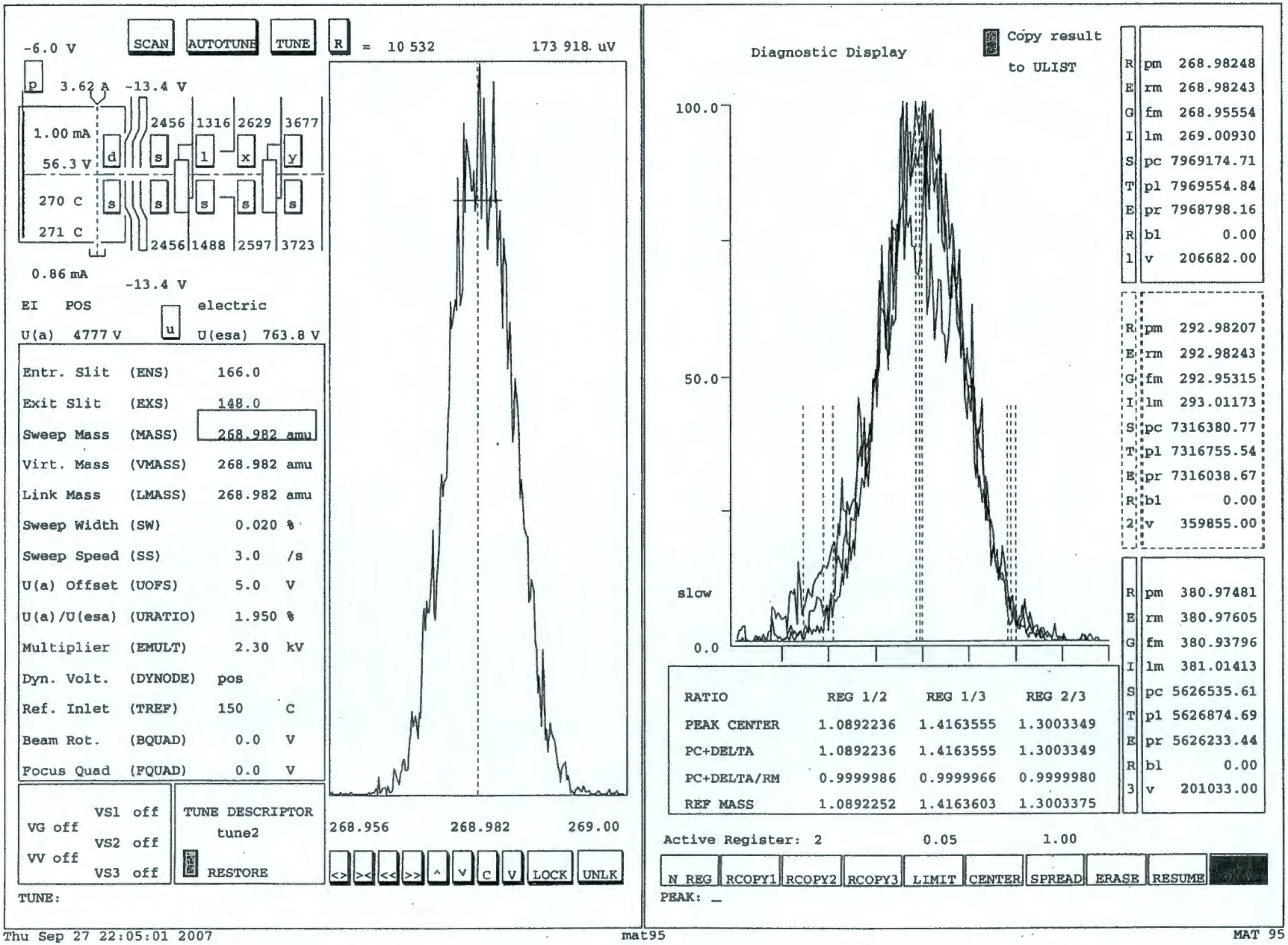
Active Register: 2 0.05 1.00

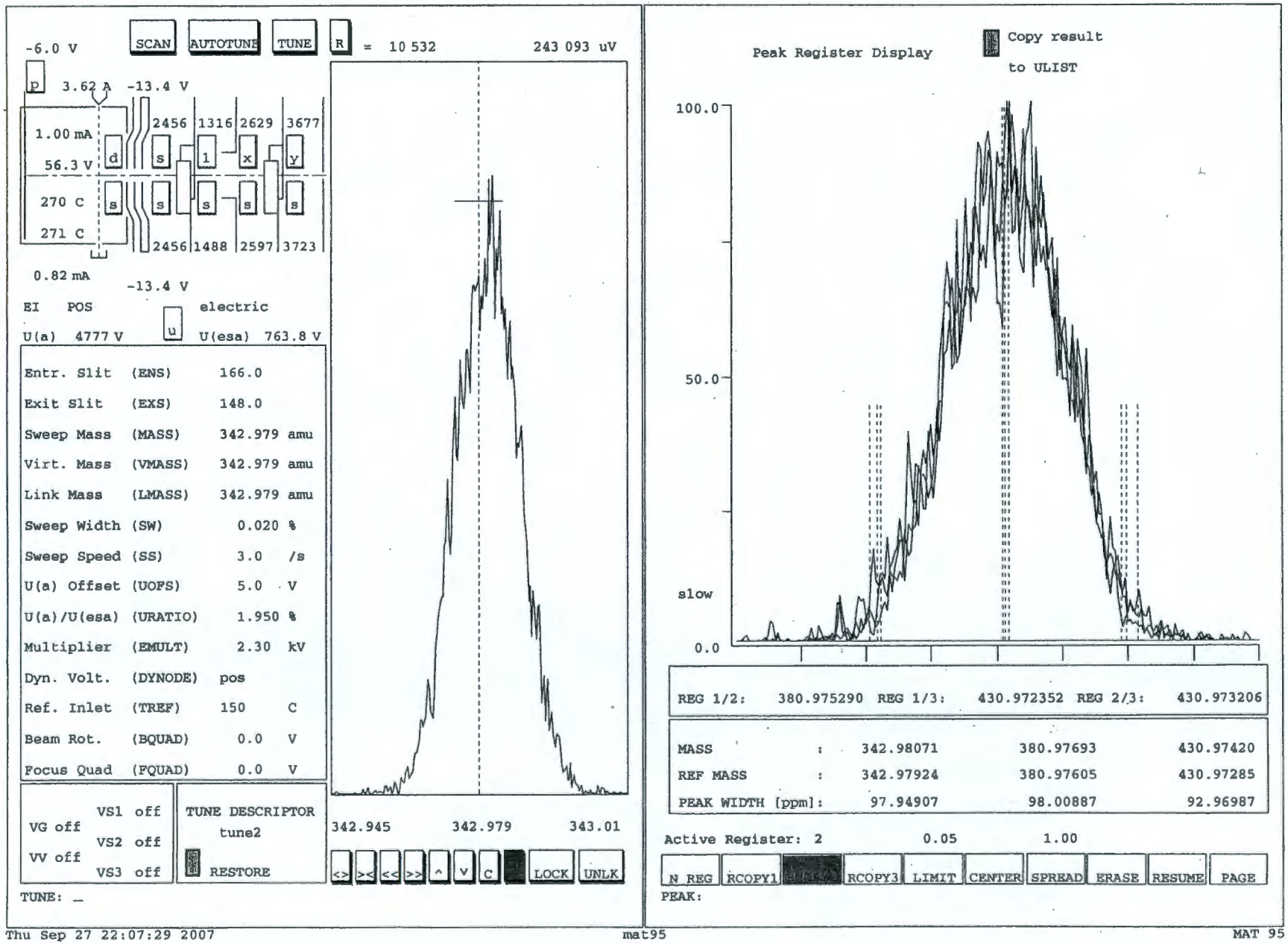
N REG | RCOPY1 | RCOPY2 | RCOPY3 | LIMIT | CENTER | SPREAD | ERASE | RESUME

PEAK:

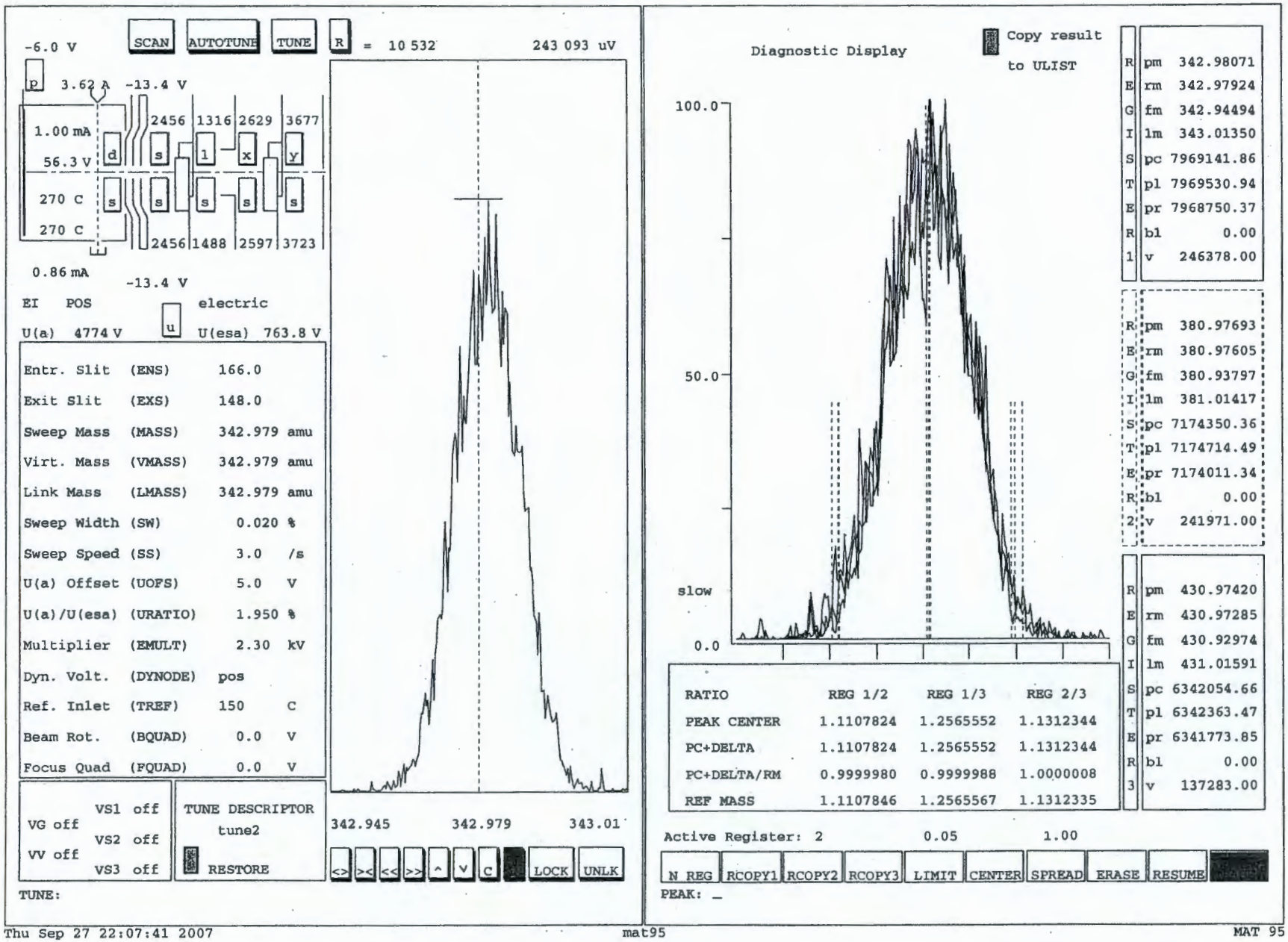
Thu Sep 27 22:04:43 2007 mat95 MAT 95

2224

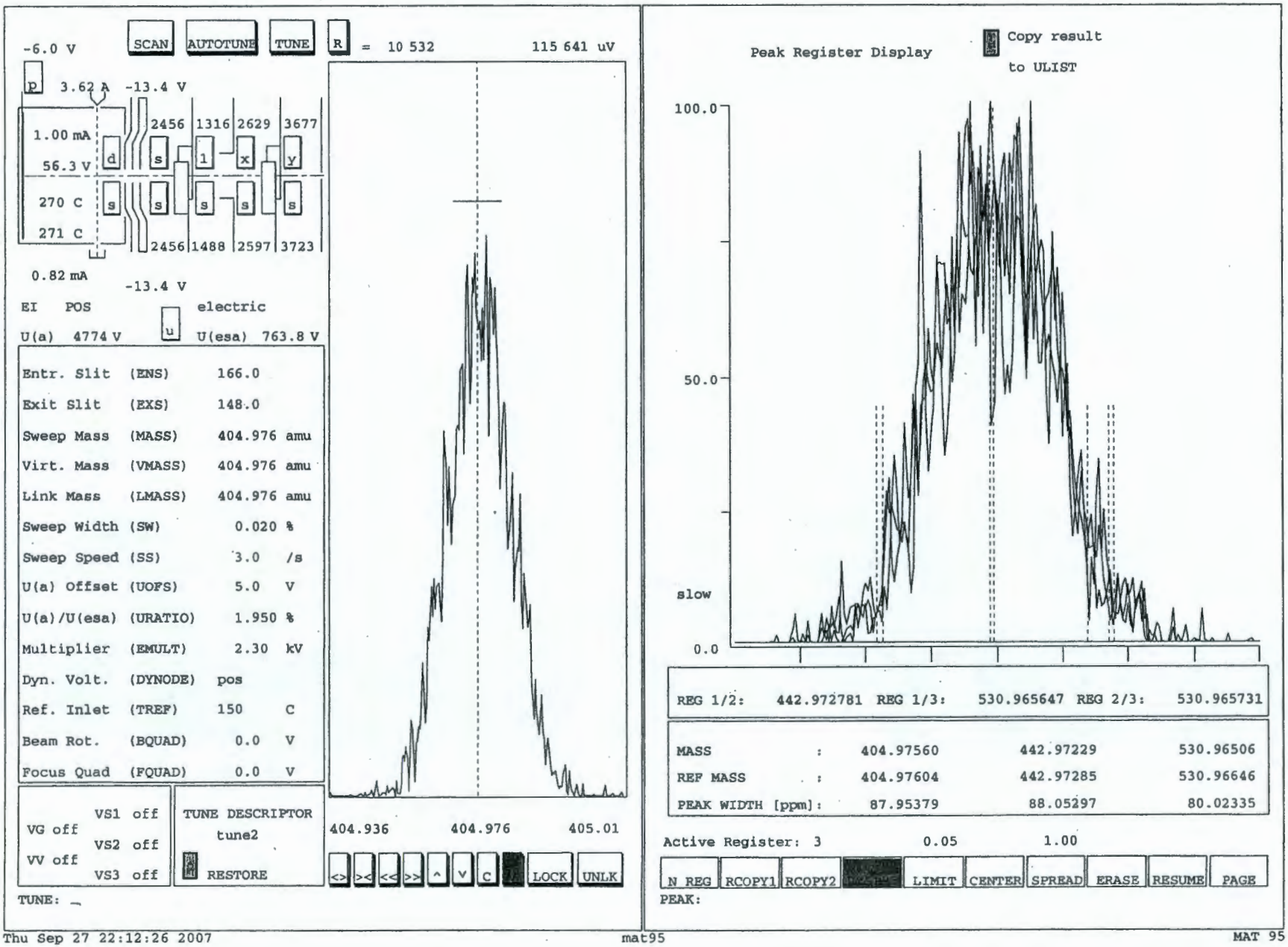

-6.0 V
SCAN
AUTOTUNE
TUNE
R = 10 532
173 918. uV
p
3.62 A
-13.4 V
1.00 mA
56.3 V
2456
1316
2629
3677
d
s
l
x
y
270 C
271 C
2456
1488
2597
3723
0.86 mA
-13.4 V
EI POS
electric
U(a) 4777 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 268.982 amu
Virt. Mass (VMASS) 268.982 amu
Link Mass (LMASS) 268.982 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.950 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
RESTORE
268.956
268.982
269.00
<>
><
<<
>>
^
v
c
V
LOCK
UNLK
TUNE:
Diagnostic Display
Copy result
to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.0892236 1.4163555 1.3003349
PC+DELTA 1.0892236 1.4163555 1.3003349
PC+DELTA/RM 0.9999986 0.9999966 0.9999980
REF MASS 1.0892252 1.4163603 1.3003375
R pm 268.98248
E rm 268.98243
G fm 268.95554
I lm 269.00930
S pc 7969174.71
T pl 7969554.84
E pr 7968798.16
R bl 0.00
1 v 206682.00
R pm 292.98207
E rm 292.98243
G fm 292.95315
I lm 293.01173
S pc 7316380.77
T pl 7316755.54
E pr 7316038.67
R bl 0.00
2 v 359855.00
R pm 380.97481
E rm 380.97605
G fm 380.93796
I lm 381.01413
S pc 5626535.61
T pl 5626874.69
E pr 5626233.44
R bl 0.00
3 v 201033.00
Active Register: 2 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Thu Sep 27 22:05:01 2007
mat95
MAT 95


SCAN
AUTOTUNE
TUNE
R = 10 532
243 093 uV
-6.0 V
p
3.62 A
-13.4 V
1.00 mA
56.3 V
270 C
271 C
2456 1316 2629 3677
2456 1488 2597 3723
0.82 mA
-13.4 V
EI POS
electric
U(a) 4777 V
U(esa) 763.8 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 342.979 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.950 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
RESTORE
342.945
342.979
343.01
LOCK
UNLK
TUNE: _
Peak Register Display
Copy result to ULIST
100.0
50.0
slow
0.0
REG 1/2: 380.975290 REG 1/3: 430.972352 REG 2/3: 430.973206
MASS : 342.98071 380.97693 430.97420
REF MASS : 342.97924 380.97605 430.97285
PEAK WIDTH [ppm]: 97.94907 98.00887 92.96987
Active Register: 2 0.05 1.00
N REG
RCOPY1
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PAGE
PEAK:
Thu Sep 27 22:07:29 2007
mat95
MAT 95

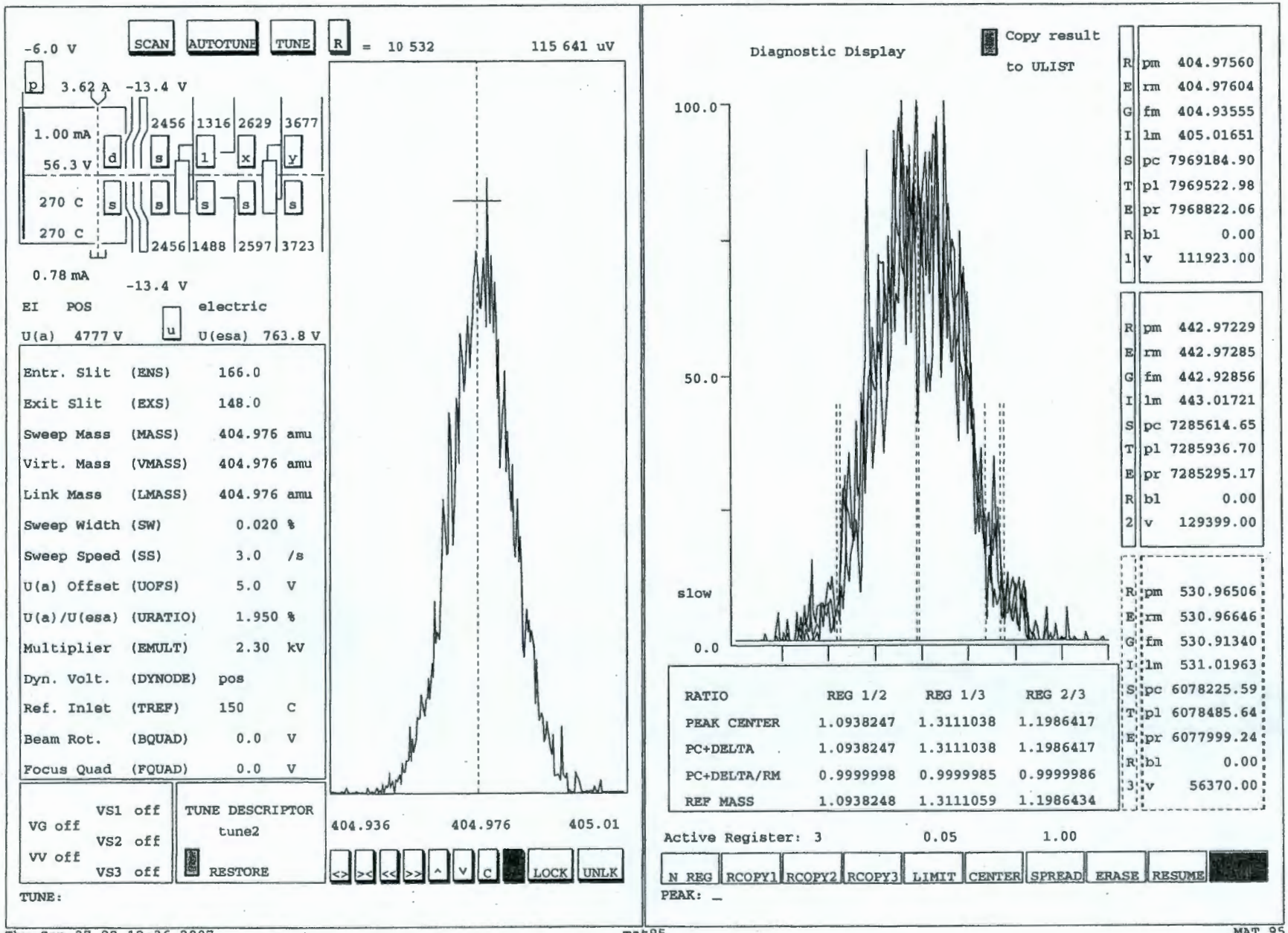
2226


SCAN
AUTOTUNE
TUNE
R = 10 532
243 093 uV
-6.0 V
p
3.62 A
-13.4 V
1.00 mA
56.3 V
2456 1316 2629 3677
d s l x y
270 C
270 C
s s s s s
2456 1488 2597 3723
0.86 mA
-13.4 V
EI POS
electric
U(a) 4774 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 342.979 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.950 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
RESTORE
342.945
342.979
343.01
<> >< << >> ^ v C
LOCK
UNLK
TUNE:
Diagnostic Display
Copy result
to ULIST
100.0
50.0
slow
0.0
R pm 342.98071
E rm 342.97924
G fm 342.94494
I lm 343.01350
S pc 7969141.86
T pl 7969530.94
E pr 7968750.37
R bl 0.00
1 v 246378.00
R pm 380.97693
E rm 380.97605
G fm 380.93797
I lm 381.01417
S pc 7174350.36
T pl 7174714.49
E pr 7174011.34
R bl 0.00
2 v 241971.00
R pm 430.97420
E rm 430.97285
G fm 430.92974
I lm 431.01591
S pc 6342054.66
T pl 6342363.47
E pr 6341773.85
R bl 0.00
3 v 137283.00
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1107824 1.2565552 1.1312344
PC+DELTA 1.1107824 1.2565552 1.1312344
PC+DELTA/RM 0.9999980 0.9999988 1.0000008
REF MASS 1.1107846 1.2565567 1.1312335
Active Register: 2 0.05 1.00
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME
PEAK: _
Thu Sep 27 22:07:41 2007
mat95
MAT 95

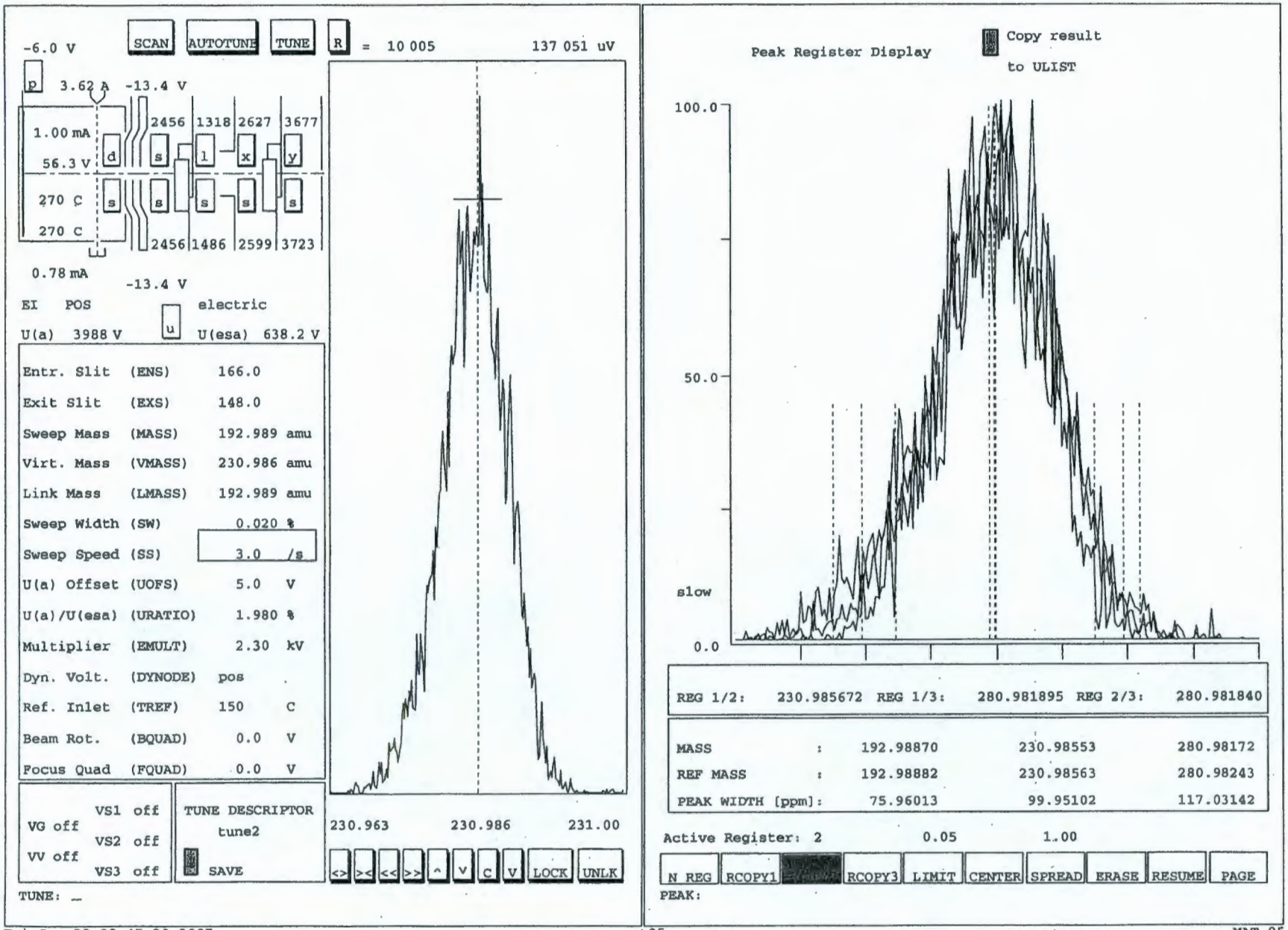
2227


-6.0 V
SCAN
AUTOTUNE
TUNE
R
= 10 532
115 641 uV
p
3.62 A
-13.4 V
1.00 mA
56.3 V
2456
1316
2629
3677
d
s
l
x
y
270 C
271 C
2456
1488
2597
3723
0.82 mA
-13.4 V
EI POS
electric
U(a) 4774 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 404.976 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.950 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
RESTORE
404.936
404.976
405.01
<>
><
<<
>>
^
v
C
LOCK
UNLK
TUNE:
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 442.972781 REG 1/3: 530.965647 REG 2/3: 530.965731
MASS : 404.97560 442.97229 530.96506
REF MASS : 404.97604 442.97285 530.96646
PEAK WIDTH [ppm]: 87.95379 88.05297 80.02335
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
LIMIT
CENTER
SPREAD
ERASE
RESUME
PAGE
PEAK:
Thu Sep 27 22:12:26 2007
mat95
MAT 95

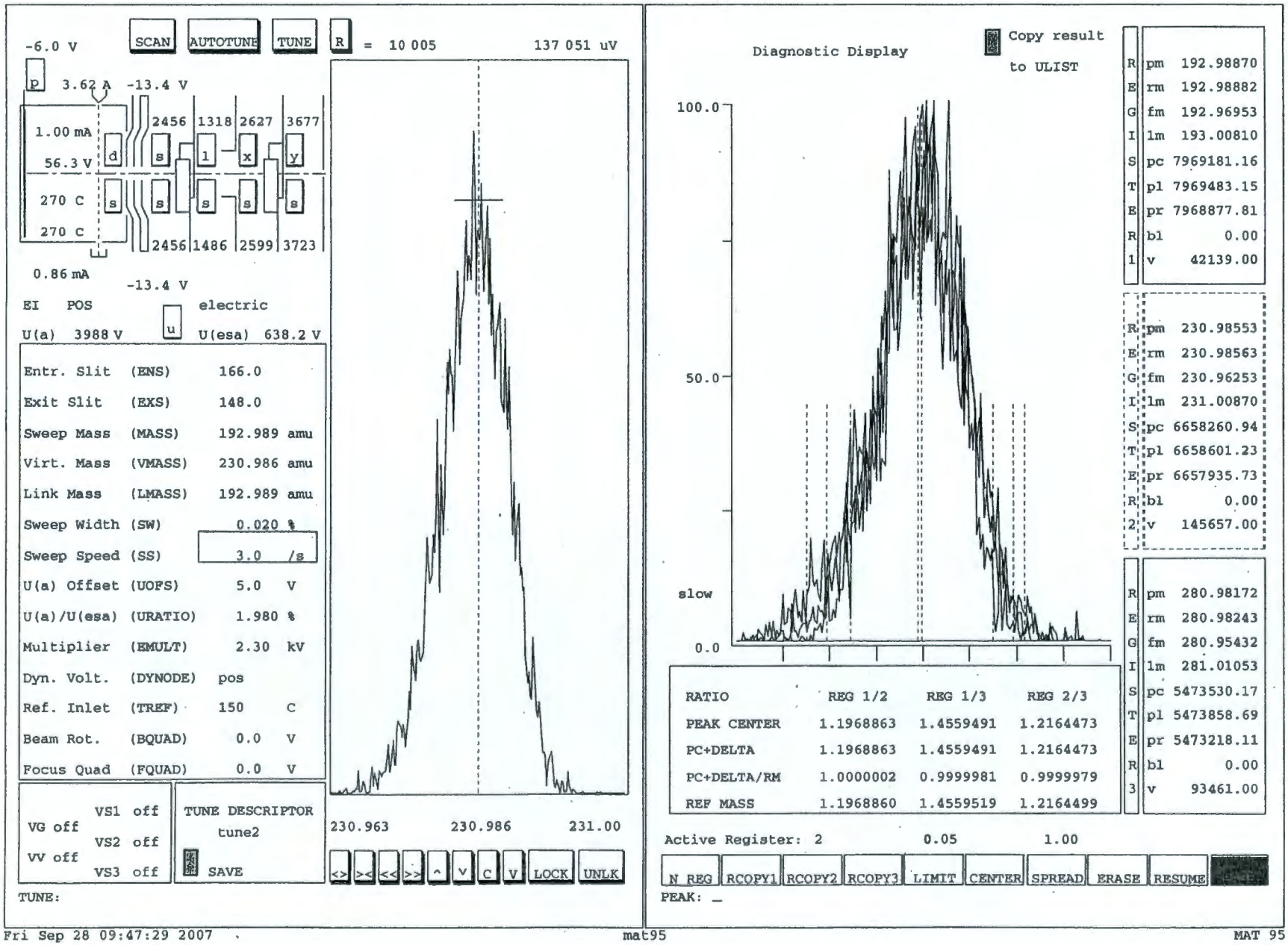
2228


-6.0 V
SCAN
AUTOTUNE
TUNE
R
= 10 532
115 641 uV
p
3.62 A
-13.4 V
1.00 mA
56.3 V
2456
1316
2629
3677
d
s
l
x
y
270 C
270 C
2456
1488
2597
3723
0.78 mA
-13.4 V
EI POS
electric
U(a) 4777 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 404.976 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.950 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
RESTORE
404.936
404.976
405.01
<>
><
<<
>>
^
v
C
LOCK
UNLK
TUNE:
Diagnostic Display
Copy result
to ULIST
100.0
50.0
slow
0.0
R pm 404.97560
E rm 404.97604
G fm 404.93555
I lm 405.01651
S pc 7969184.90
T pl 7969522.98
E pr 7968822.06
R bl 0.00
1 v 111923.00
R pm 442.97229
E rm 442.97285
G fm 442.92856
I lm 443.01721
S pc 7285614.65
T pl 7285936.70
E pr 7285295.17
R bl 0.00
2 v 129399.00
R pm 530.96506
E rm 530.96646
G fm 530.91340
I lm 531.01963
S pc 6078225.59
T pl 6078485.64
E pr 6077999.24
R bl 0.00
3 v 56370.00
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.0938247 1.3111038 1.1986417
PC+DELTA 1.0938247 1.3111038 1.1986417
PC+DELTA/RM 0.9999998 0.9999985 0.9999986
REF MASS 1.0938248 1.3111059 1.1986434
Active Register: 3
0.05
1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Thu Sep 27 22:12:36 2007
mat95
MAT 95

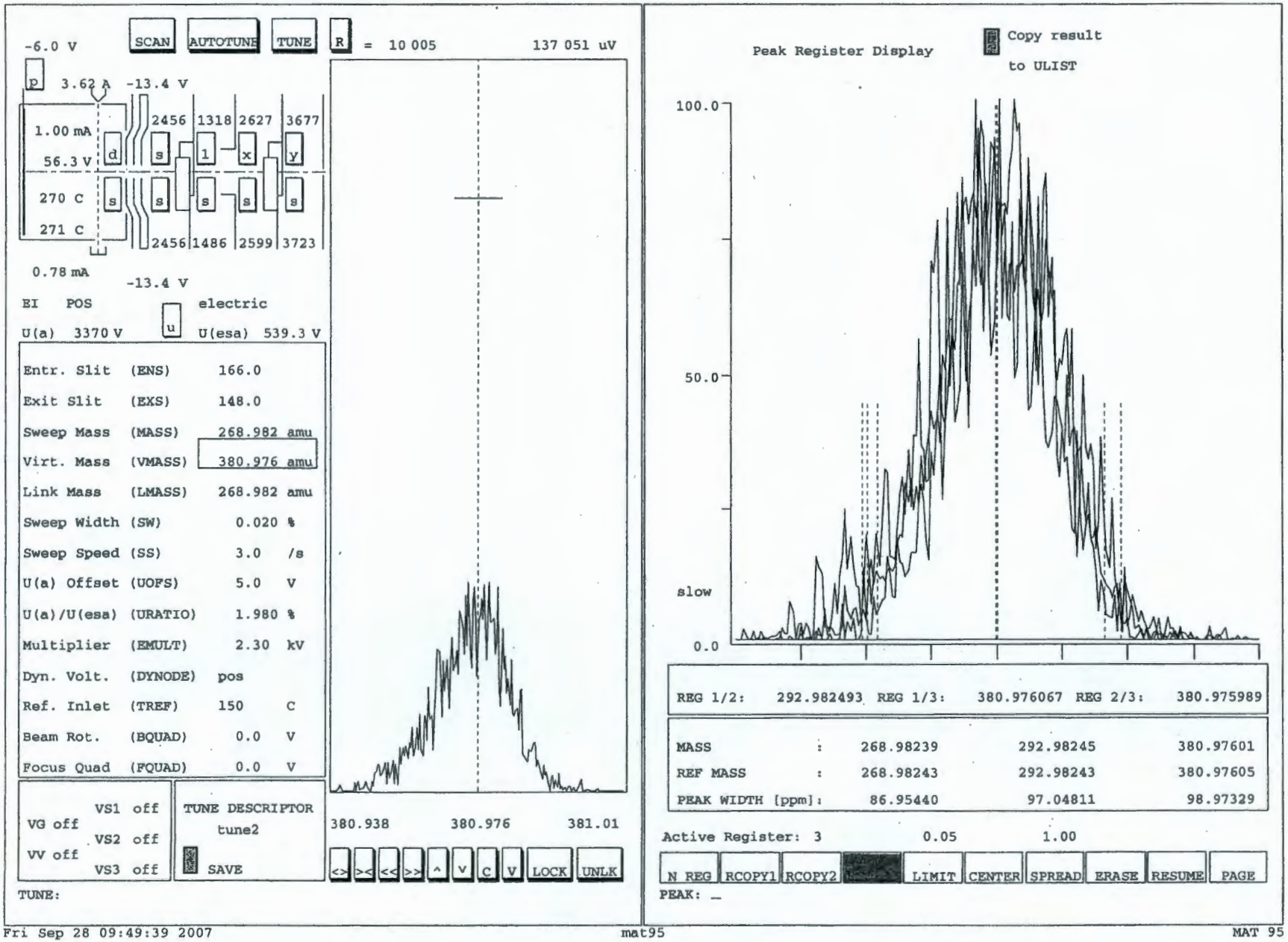
2229


-6.0 V
SCAN
AUTOTUNE
TUNE
R
= 10 005
137 051 uV
p
3.62 A
-13.4 V
1.00 mA
56.3 V
270 C
270 C
2456
1318
2627
3677
2456
1486
2599
3723
0.78 mA
-13.4 V
EI POS
electric
U(a) 3988 V
U(esa) 638.2 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 192.989 amu
Virt. Mass (VMASS) 230.986 amu
Link Mass (LMASS) 192.989 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
230.963
230.986
231.00
LOCK
UNLK
TUNE: _
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 230.985672 REG 1/3: 280.981895 REG 2/3: 280.981840
MASS : 192.98870 230.98553 280.98172
REF MASS : 192.98882 230.98563 280.98243
PEAK WIDTH [ppm]: 75.96013 99.95102 117.03142
Active Register: 2 0.05 1.00
N REG
RCOPY1
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PAGE
PEAK:
Fri Sep 28 09:47:20 2007
mat95
MAT 95

2230


SCAN
AUTOTUNE
TUNE
R = 10 005
137 051 uV
-6.0 V
p
3.62 A
-13.4 V
1.00 mA
56.3 V
2456 1318 2627 3677
d s l x y
270 C
270 C
s s s s s
2456 1486 2599 3723
0.86 mA
-13.4 V
EI POS
electric
U(a) 3988 V
u
U(esa) 638.2 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 192.989 amu
Virt. Mass (VMASS) 230.986 amu
Link Mass (LMASS) 192.989 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
230.963 230.986 231.00
<> >< << >> ^ v C V LOCK UNLK
TUNE:
Diagnostic Display
Copy result to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1968863 1.4559491 1.2164473
PC+DELTA 1.1968863 1.4559491 1.2164473
PC+DELTA/RM 1.0000002 0.9999981 0.9999979
REF MASS 1.1968860 1.4559519 1.2164499
REGIST 1 pm 192.98870 rm 192.98882 fm 192.96953 lm 193.00810 pc 7969181.16 pl 7969483.15 pr 7968877.81 bl 0.00 v 42139.00
REGIST 2 pm 230.98553 rm 230.98563 fm 230.96253 lm 231.00870 pc 6658260.94 pl 6658601.23 pr 6657935.73 bl 0.00 v 145657.00
REGIST 3 pm 280.98172 rm 280.98243 fm 280.95432 lm 281.01053 pc 5473530.17 pl 5473858.69 pr 5473218.11 bl 0.00 v 93461.00
Active Register: 2 0.05 1.00
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME
PEAK: _
Fri Sep 28 09:47:29 2007
mat95
MAT 95

2231



Fri Sep 28 09:49:39 2007 mat95 MAT 95

-6.0 V SCAN AUTOTUNE TUNE R = 10 005 137 051 uV

p 3.62 A -13.4 V

1.00 mA 2456 1318 2627 3677

56.3 V d s l x y

270 C s s s s s

270 C 2456 1486 2599 3723

0.82 mA -13.4 V

EI POS u electric

U(a) 3370 V U(esa) 539.3 V

Entr. Slit	(ENS)	166.0	
Exit Slit	(EXS)	148.0	
Sweep Mass	(MASS)	268.982	amu
Virt. Mass	(VMASS)	380.976	amu
Link Mass	(LMASS)	268.982	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.980	%
Multiplier	(EMULT)	2.30	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR
tune2
SAVE

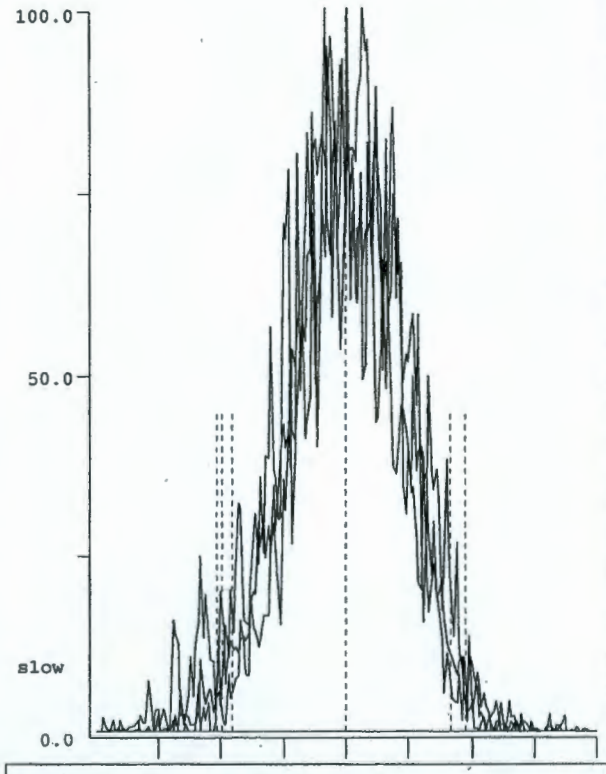
TUNE:

380.938 380.976 381.01

<> >< << >> ^ v C V LOCK UNLK

Diagnostic Display

Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0892254	1.4163604	1.3003373
PC+DELTA	1.0892254	1.4163604	1.3003373
PC+DELTA/RM	1.0000002	1.0000001	0.9999999
REF MASS	1.0892252	1.4163603	1.3003375

R	pm	268.98239
E	rm	268.98243
G	fm	268.95554
I	lm	269.00930
S	pc	7969177.18
T	pl	7969538.91
E	pr	7968845.95
R	bl	0.00
1	v	67475.00

R	pm	292.98245
E	rm	292.98243
G	fm	292.95311
I	lm	293.01173
S	pc	7316371.17
T	pl	7316734.34
E	pr	7316024.30
R	bl	0.00
2	v	130408.00

R	pm	380.97601
E	rm	380.97605
G	fm	380.93796
I	lm	381.01413
S	pc	5626517.91
T	pl	5626807.19
E	pr	5626250.31
R	bl	0.00
3	v	50144.00

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME

PEAK: _

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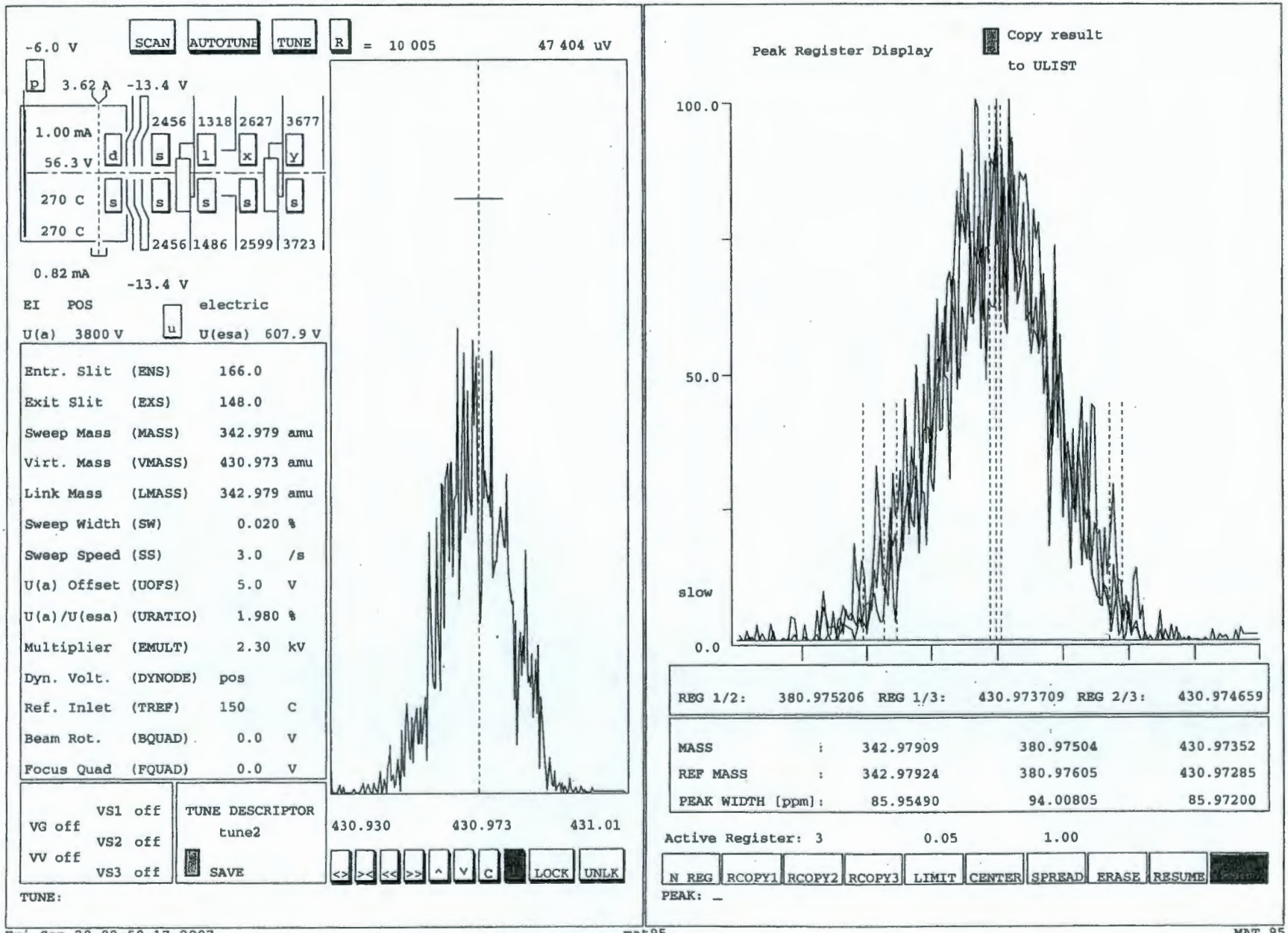
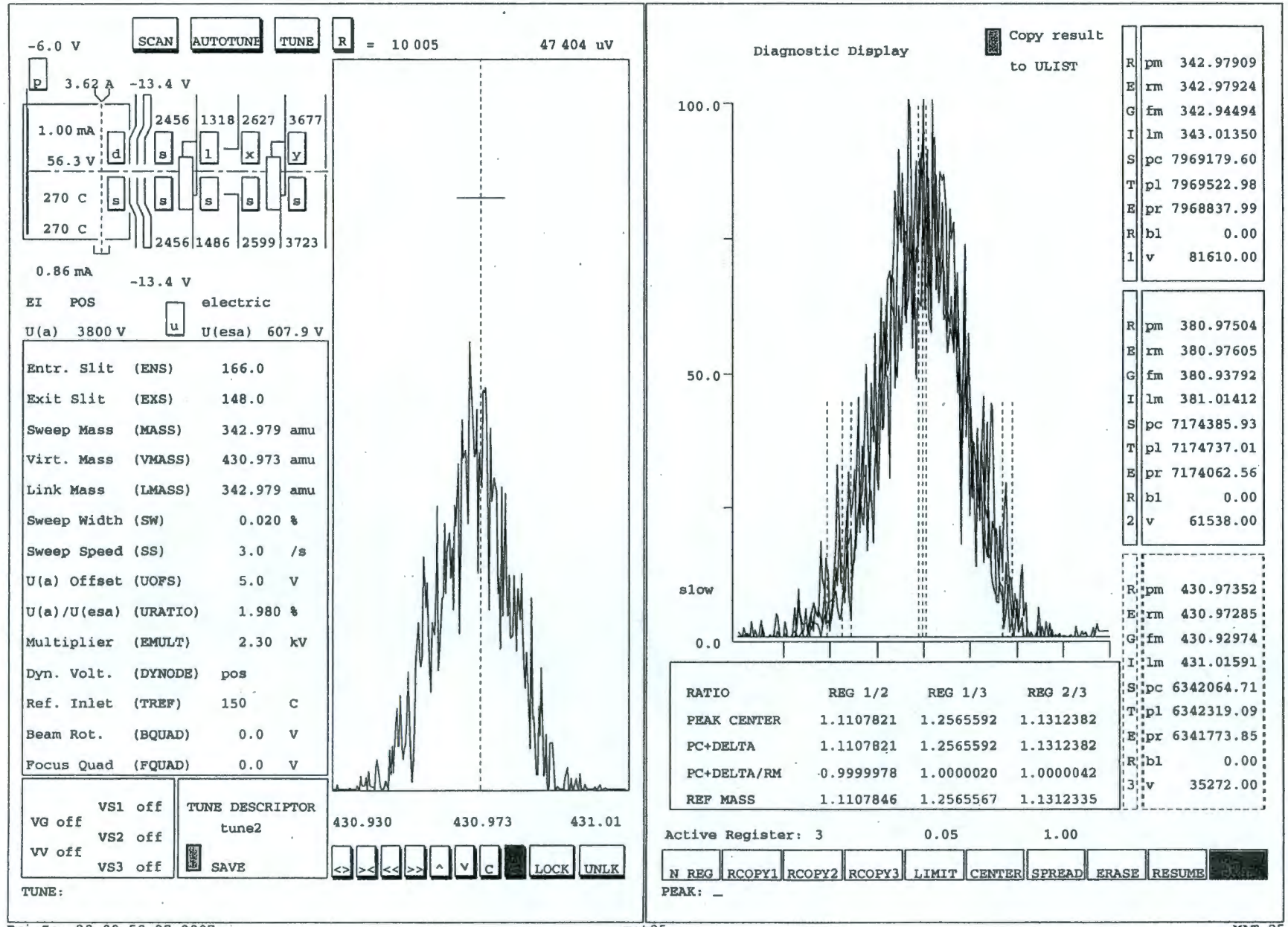
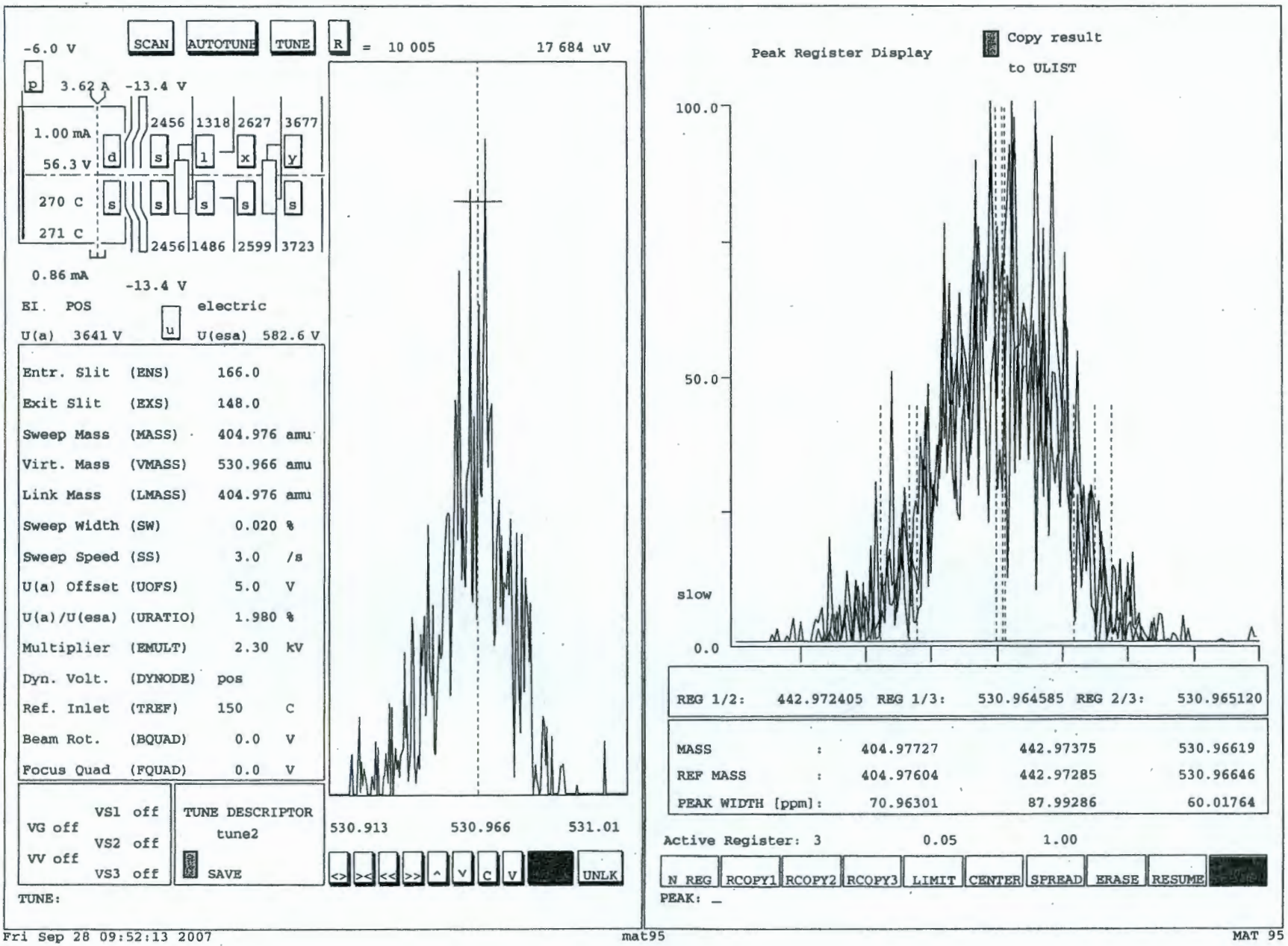
2233

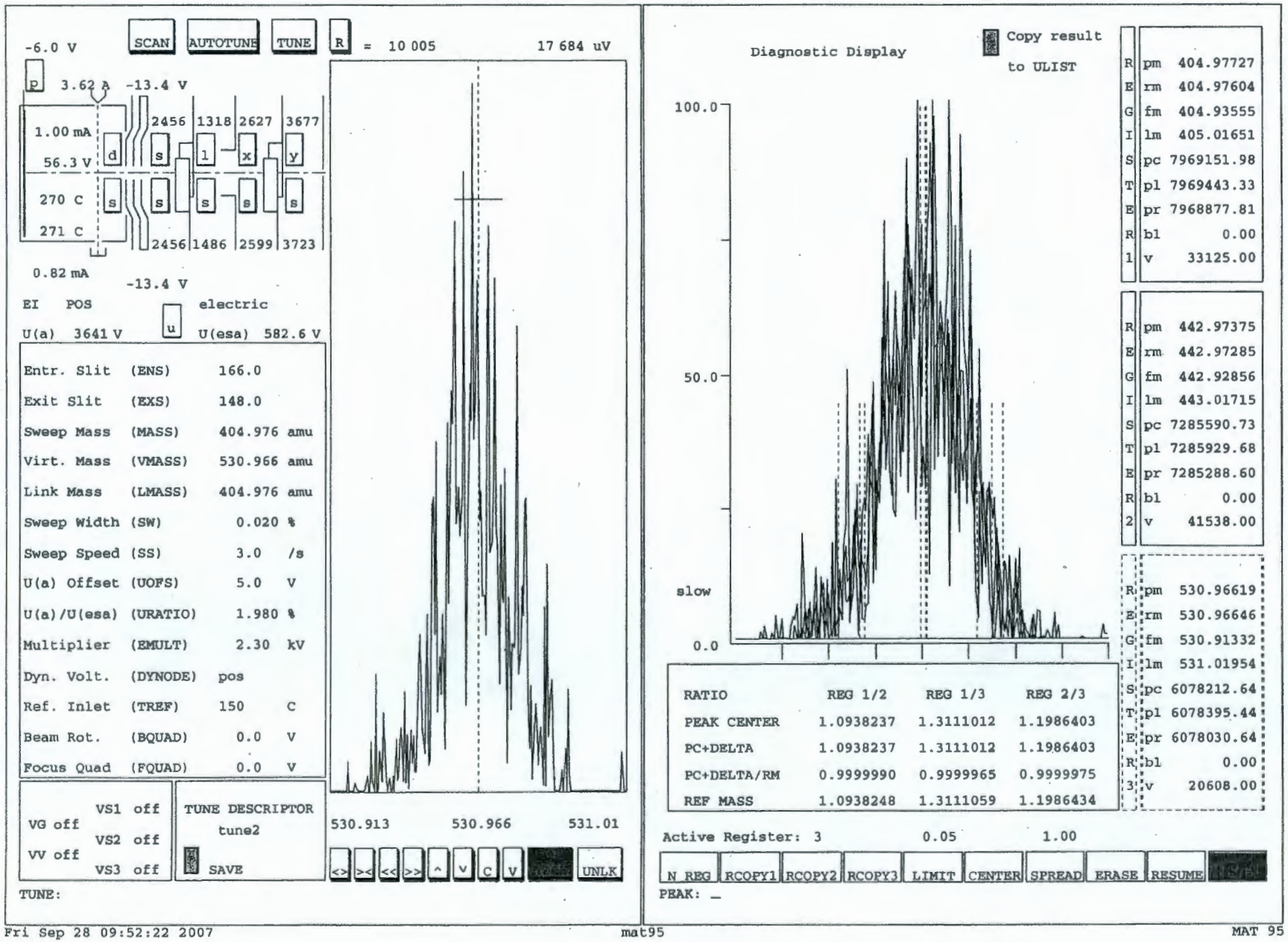

-6.0 V
SCAN
AUTOTUNE
TUNE
R = 10 005
47 404 uV
p
3.62 A
-13.4 V
1.00 mA
56.3 V
2456
1318
2627
3677
d
s
l
x
y
270 C
270 C
s
2456
1486
2599
3723
0.82 mA
-13.4 V
EI POS
electric
U(a) 3800 V
u
U(esa) 607.9 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 430.973 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
430.930
430.973
431.01
<>
><
<<
>>
^
v
C
LOCK
UNLK
TUNE:
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 380.975206 REG 1/3: 430.973709 REG 2/3: 430.974659
MASS : 342.97909 380.97504 430.97352
REF MASS : 342.97924 380.97605 430.97285
PEAK WIDTH [ppm]: 85.95490 94.00805 85.97200
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Fri Sep 28 09:50:17 2007
mat95
MAT 95

2234


-6.0 V
SCAN
AUTOTUNE
TUNE
R
= 10 005
47 404 uV
p
3.62 A
-13.4 V
1.00 mA
56.3 V
2456
1318
2627
3677
d
s
l
x
y
270 C
270 C
2456
1486
2599
3723
0.86 mA
-13.4 V
EI POS
electric
U(a) 3800 V
u
U(esa) 607.9 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 430.973 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
TUNE:
430.930
430.973
431.01
<>
><
<<
>>
^
v
C
LOCK
UNLK
Diagnostic Display
Copy result
to ULIST
100.0
50.0
slow
0.0
R pm 342.97909
E rm 342.97924
G fm 342.94494
I lm 343.01350
S pc 7969179.60
T pl 7969522.98
E pr 7968837.99
R bl 0.00
1 v 81610.00
R pm 380.97504
E rm 380.97605
G fm 380.93792
I lm 381.01412
S pc 7174385.93
T pl 7174737.01
E pr 7174062.56
R bl 0.00
2 v 61538.00
R pm 430.97352
E rm 430.97285
G fm 430.92974
I lm 431.01591
S pc 6342064.71
T pl 6342319.09
E pr 6341773.85
R bl 0.00
3 v 35272.00
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1107821 1.2565592 1.1312382
PC+DELTA 1.1107821 1.2565592 1.1312382
PC+DELTA/RM 0.9999978 1.0000020 1.0000042
REF MASS 1.1107846 1.2565567 1.1312335
Active Register: 3
0.05
1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Fri Sep 28 09:50:27 2007
mat95
MAT 95


-6.0 V
SCAN
AUTOTUNE
TUNE
R
= 10 005
17 684 uV
p
3.62 A
-13.4 V
1.00 mA
56.3 V
2456
1318
2627
3677
d
s
l
x
y
270 C
271 C
2456
1486
2599
3723
0.86 mA
-13.4 V
EI. POS
electric
U(a) 3641 V
u
U(esa) 582.6 V
Entr. Slit (ENS) 166.0
Exit Slit (EXS) 148.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 530.966 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VS3 off
VV off
TUNE DESCRIPTOR
tune2
SAVE
TUNE:
530.913
530.966
531.01
UNLK
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 442.972405 REG 1/3: 530.964585 REG 2/3: 530.965120
MASS : 404.97727 442.97375 530.96619
REF MASS : 404.97604 442.97285 530.96646
PEAK WIDTH [ppm]: 70.96301 87.99286 60.01764
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Fri Sep 28 09:52:13 2007
mat95
MAT 95

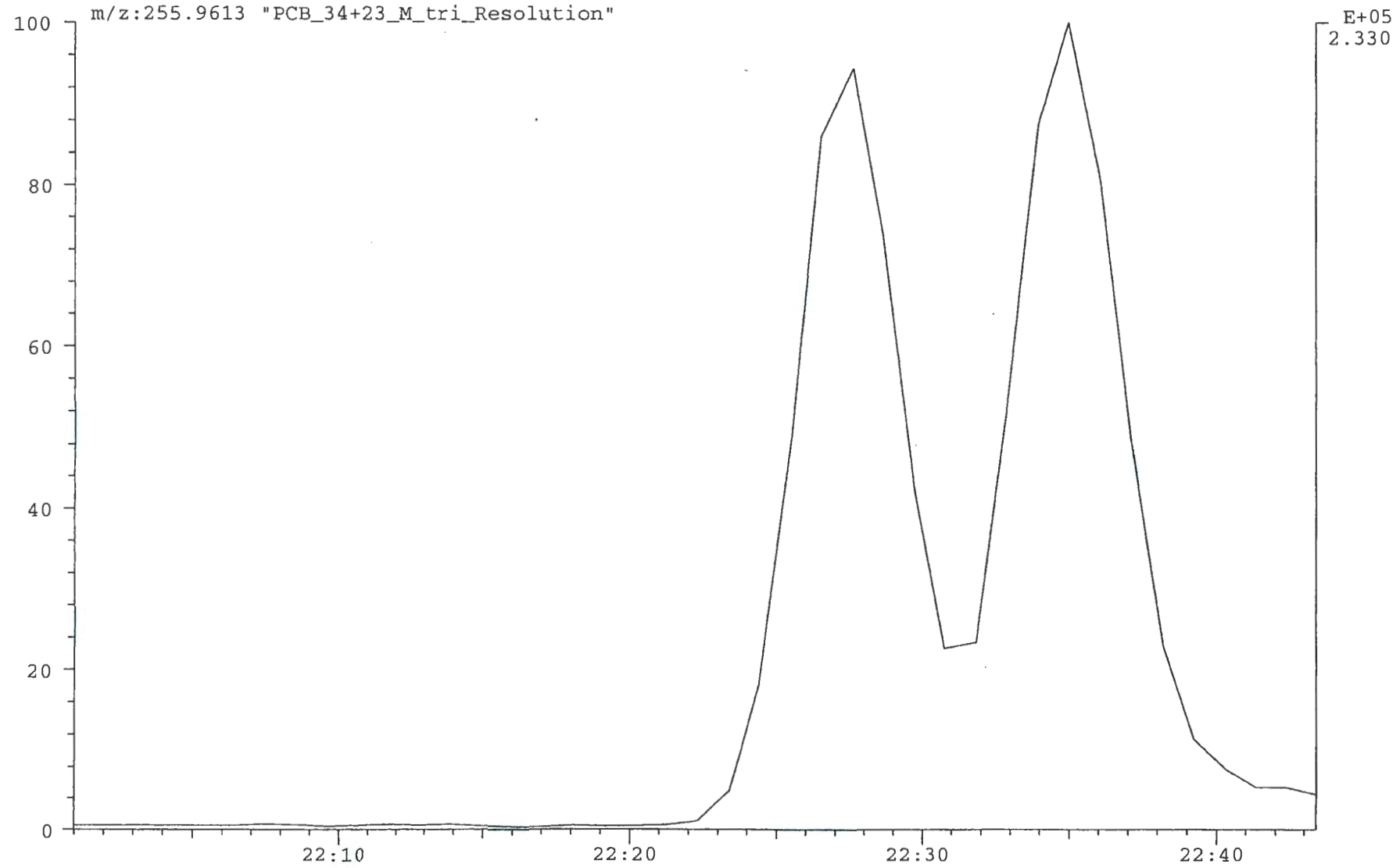
2236



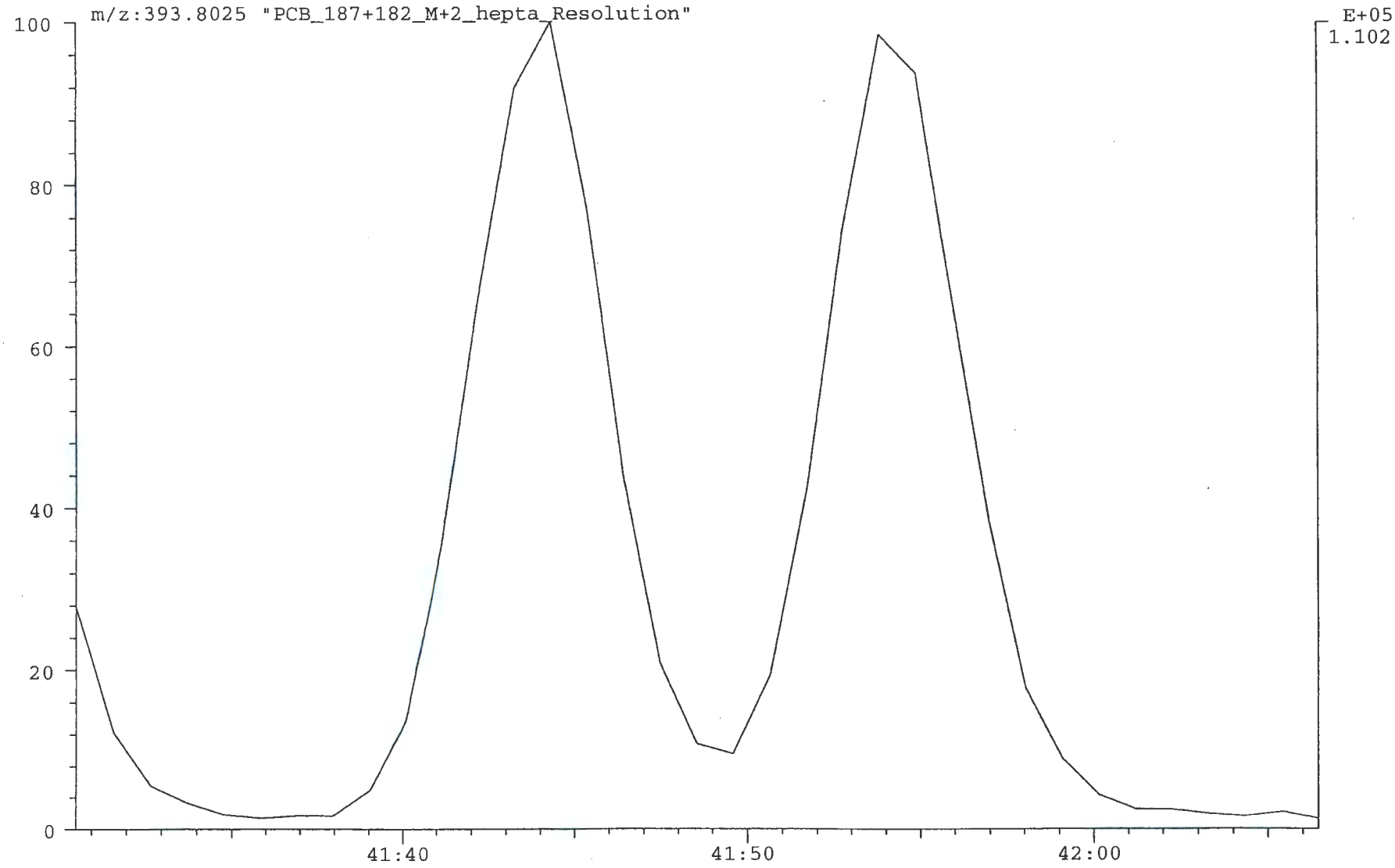
Fri Sep 28 09:52:22 2007 mat95 MAT 95

2237

```
CHRO:  a070927s2                          27-Sep-07   Elapse:  22:24.4      644
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1               Start :  22:14:43    2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville             Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   626 > 662        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  0, 3.0
Disp:  Height  Area
```

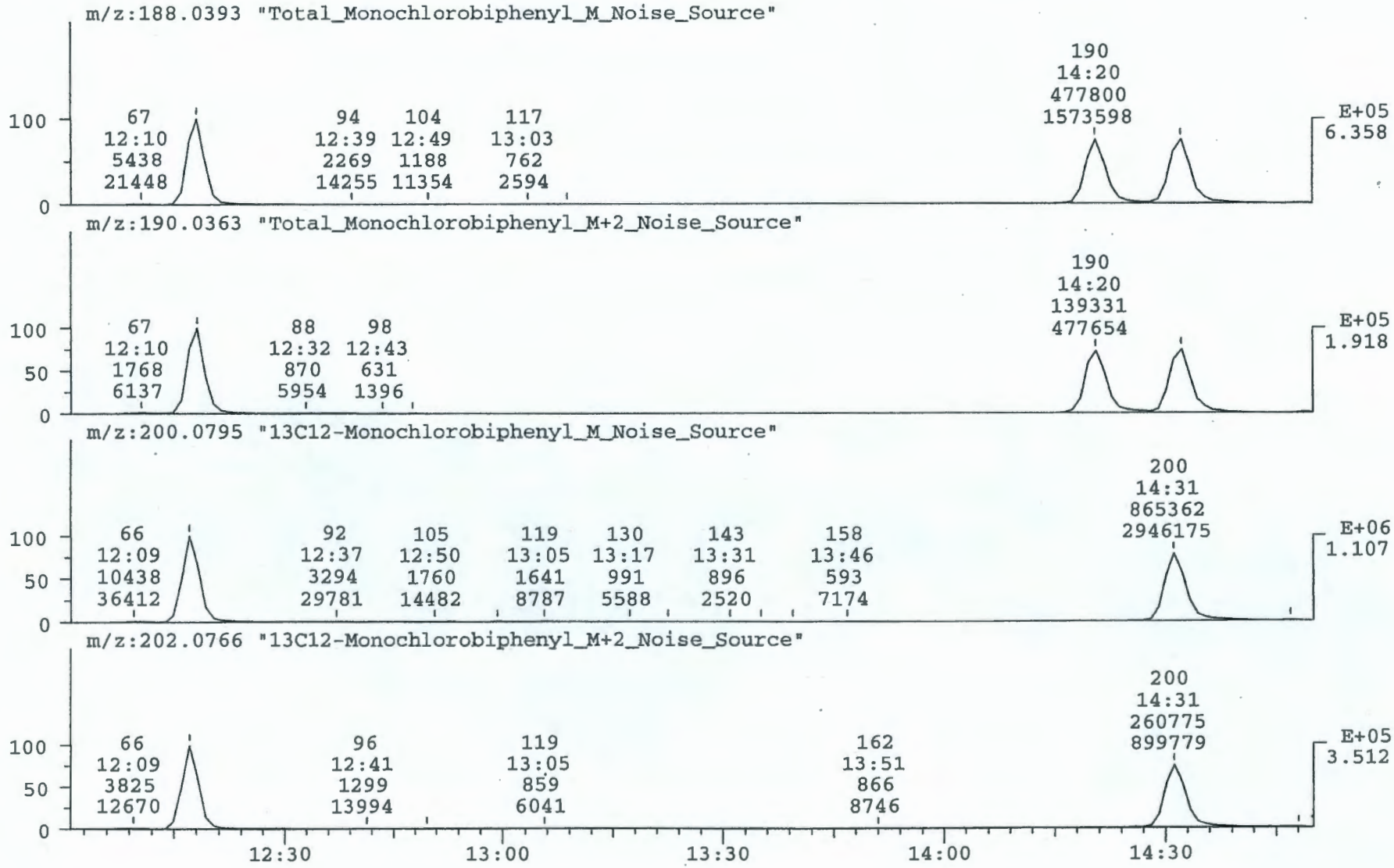


```
CHRO:  a070927s2                          27-Sep-07   Elapse:  41:53      1747
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1               Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville             Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1725 > 1759      Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  0, 3.0
Disp:  Height  Area
```



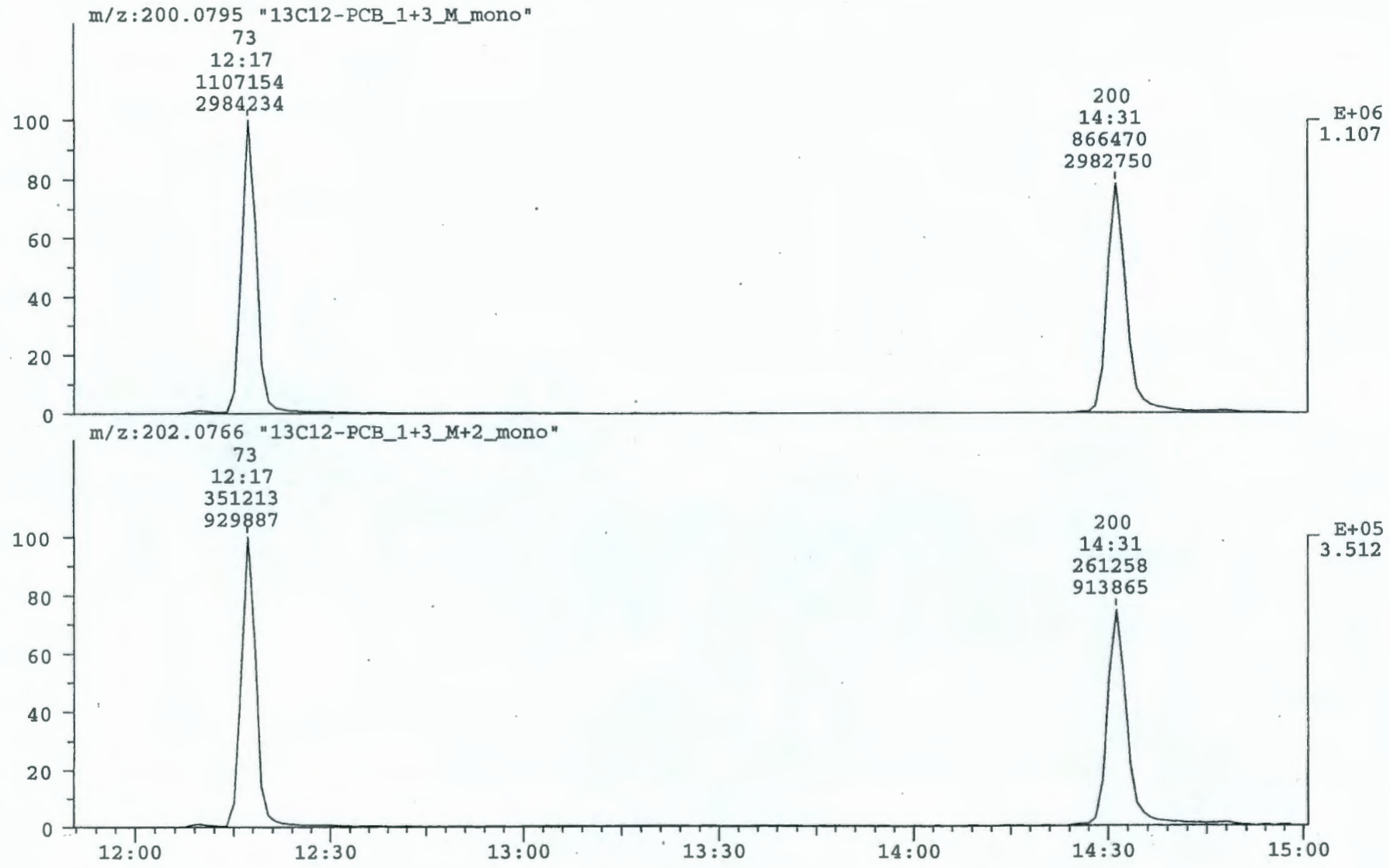
2239

CHRO: a070927s2 27-Sep-07 Elapse: 13:25.7 138
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 58 > 218 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



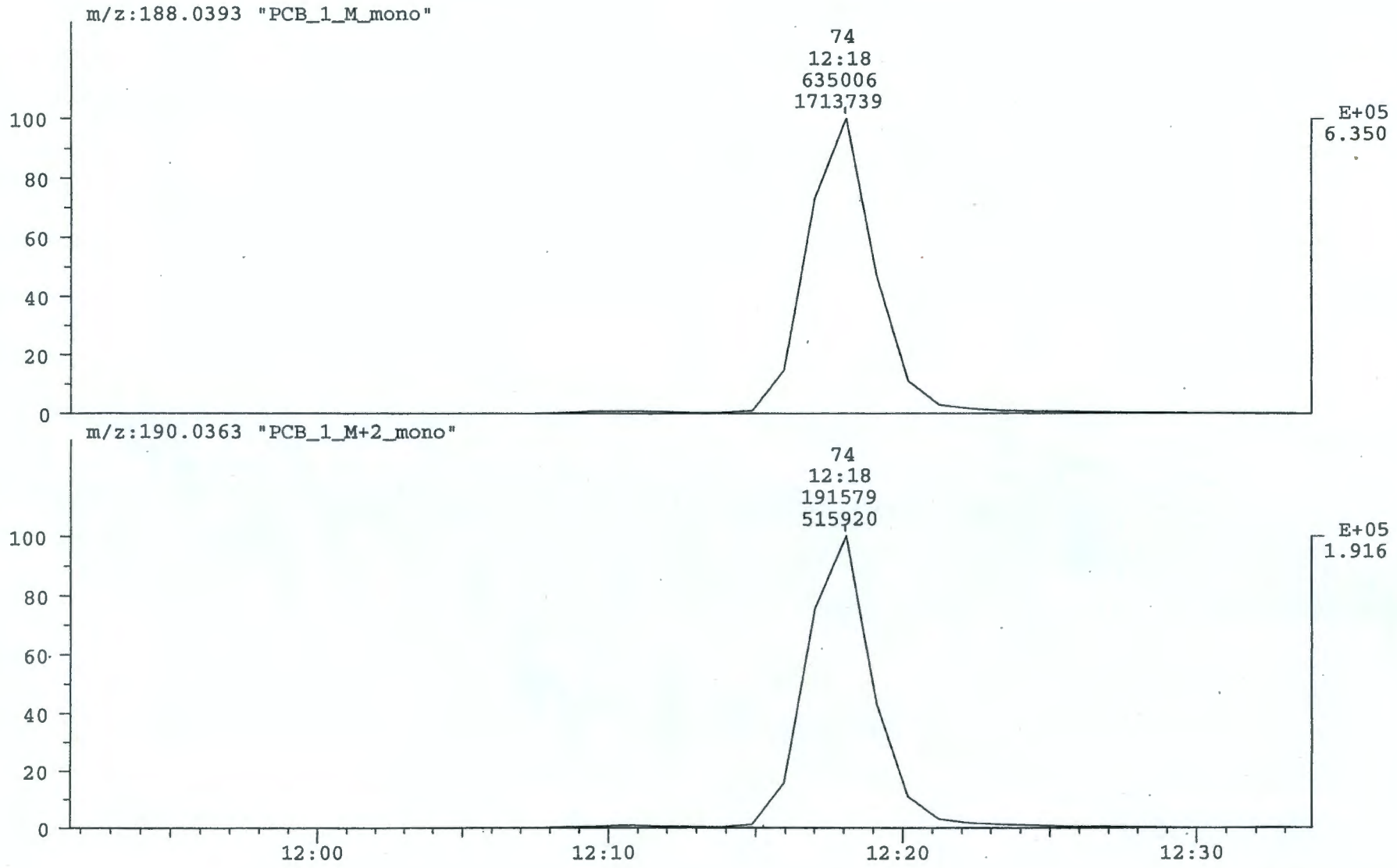
2240

```
CHRO:  a070927s2                                27-Sep-07   Elapse:  13:25.7     138
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=mld/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



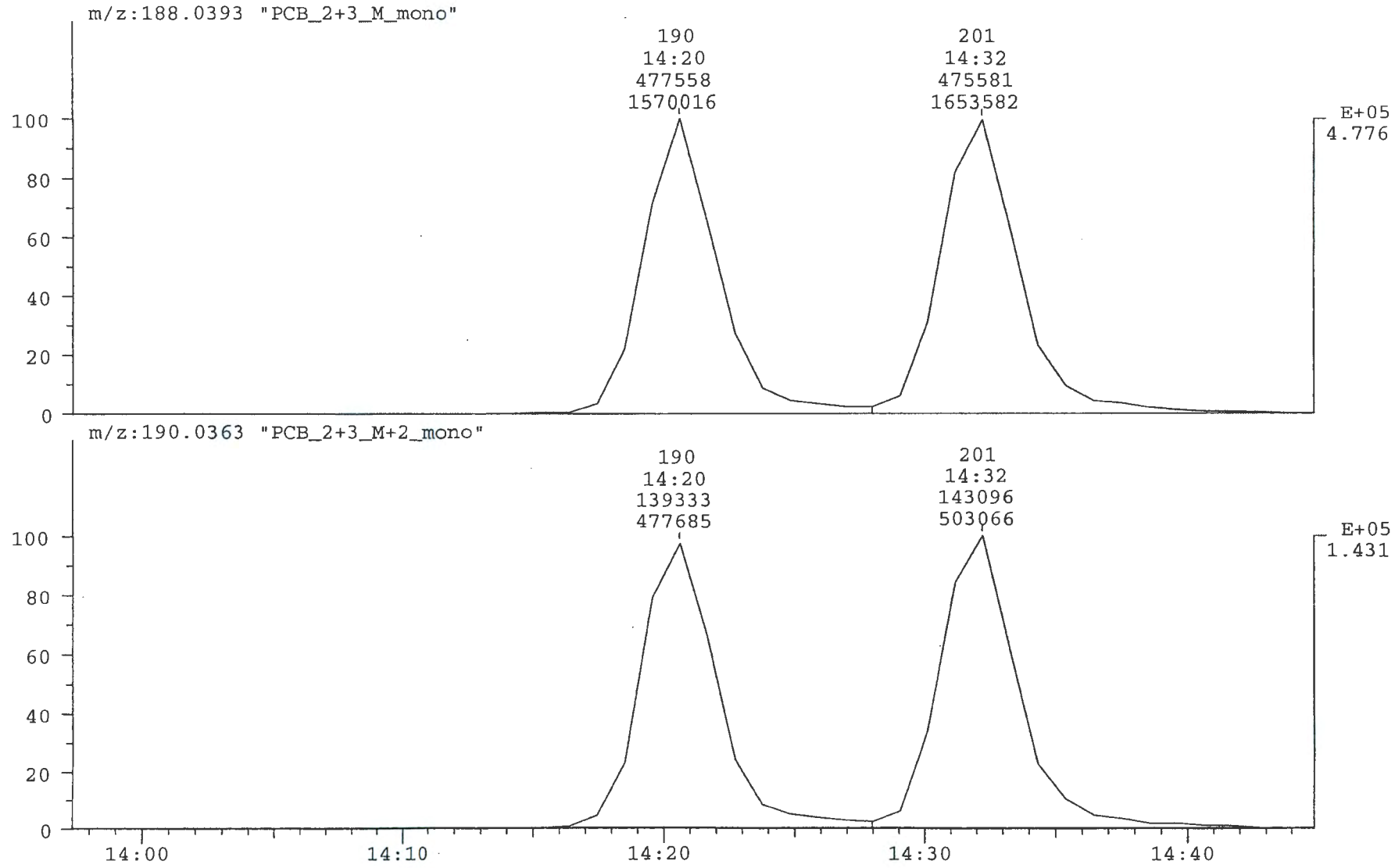
2241

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  12:12.7      69
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   49 > 89              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

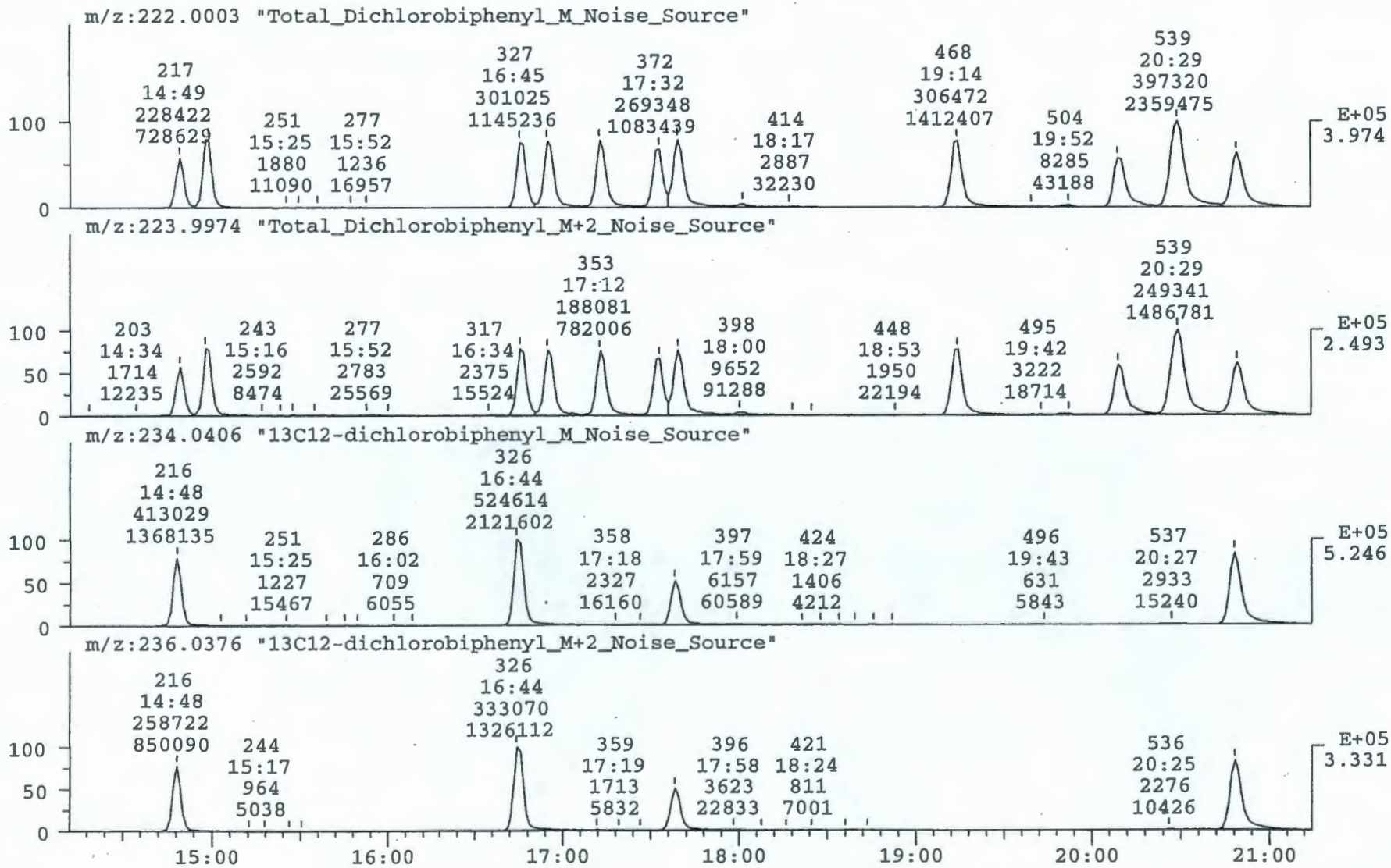


2242

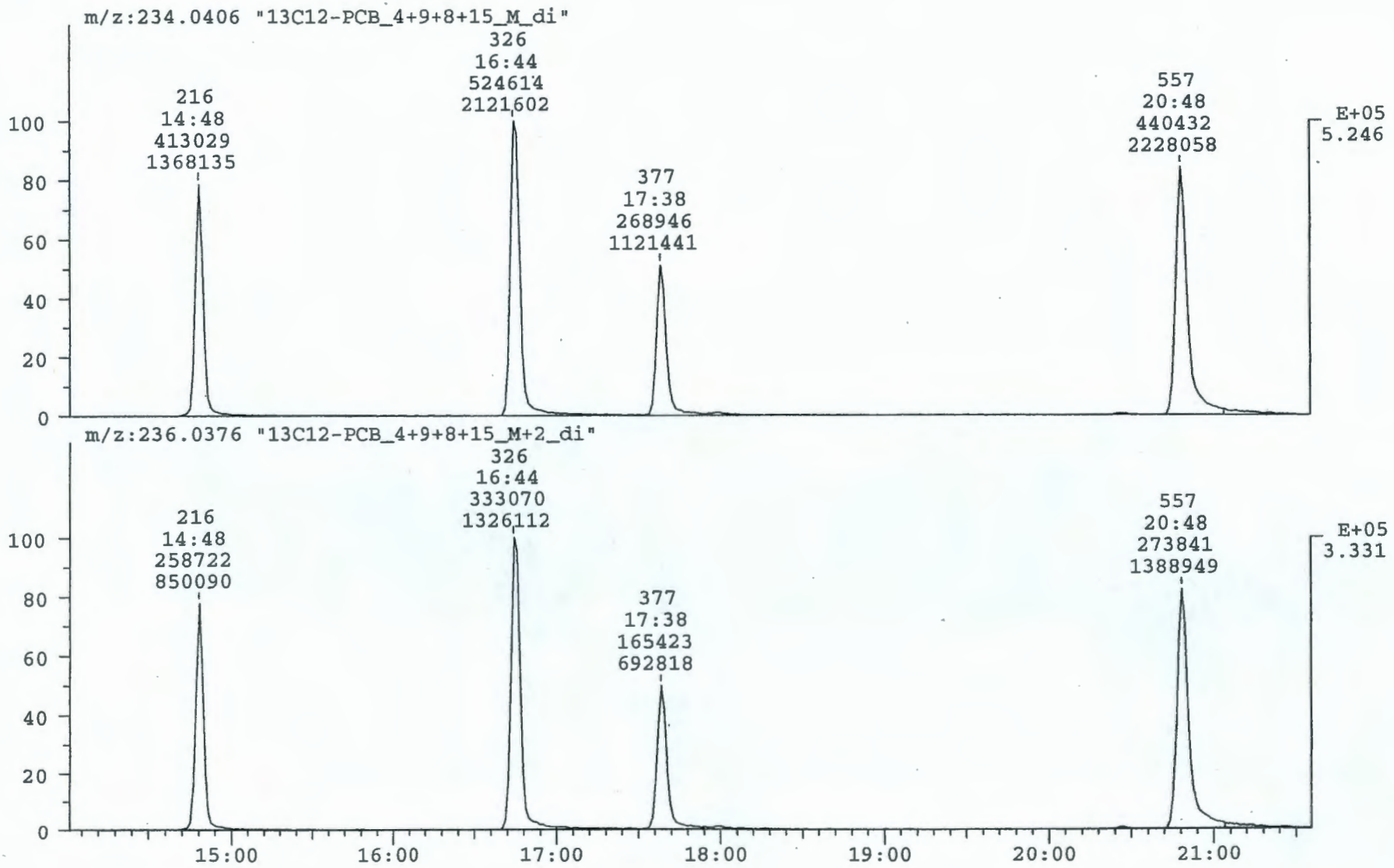
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  14:23.7     193
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   168 > 213            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a070927s2 27-Sep-07 Elapse: 17:43.3 382
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 182 > 582 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

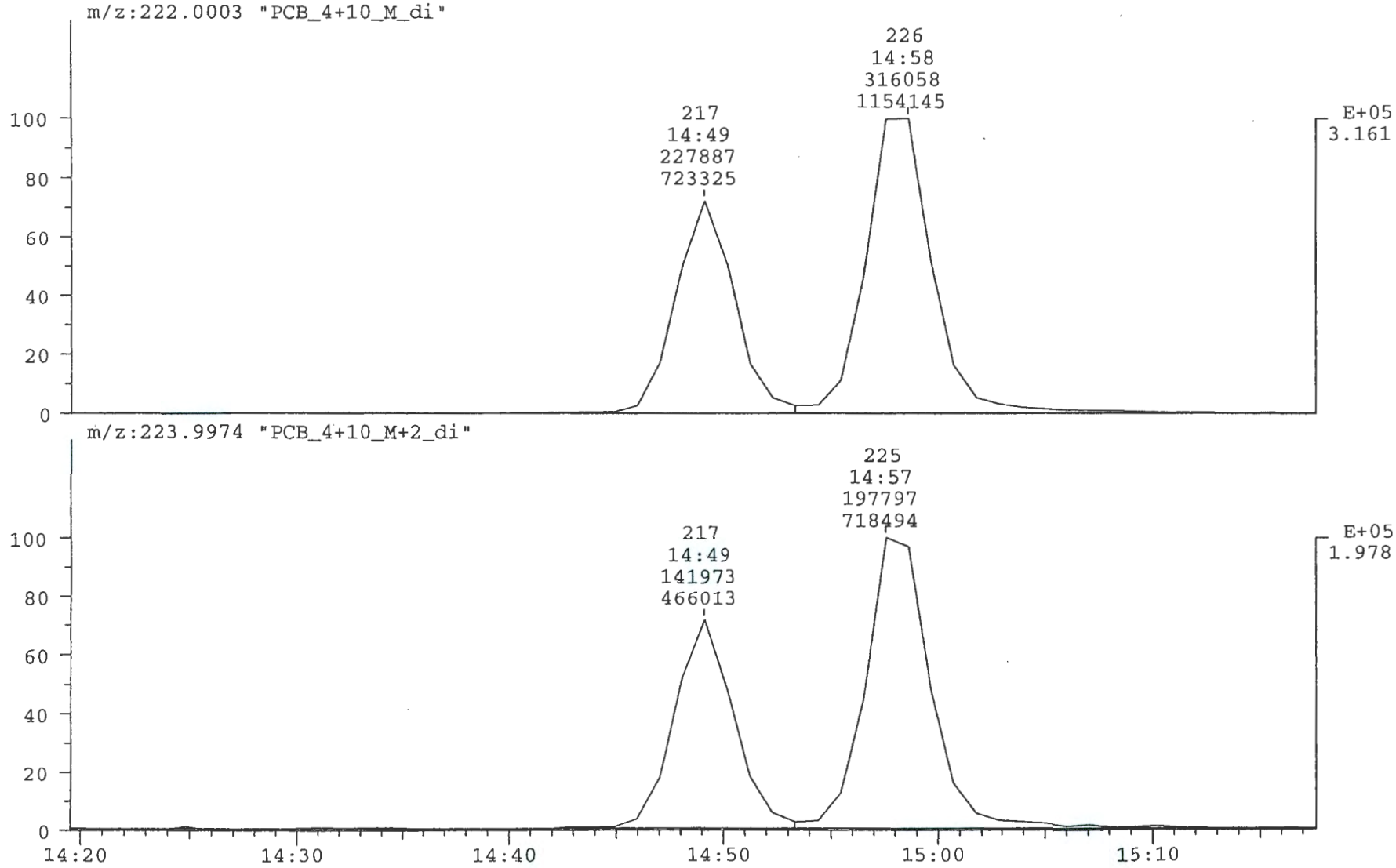


```
CHRO:  a070927s2                                27-Sep-07   Elapse:  17:43.3      382
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43    2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   172 > 602             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



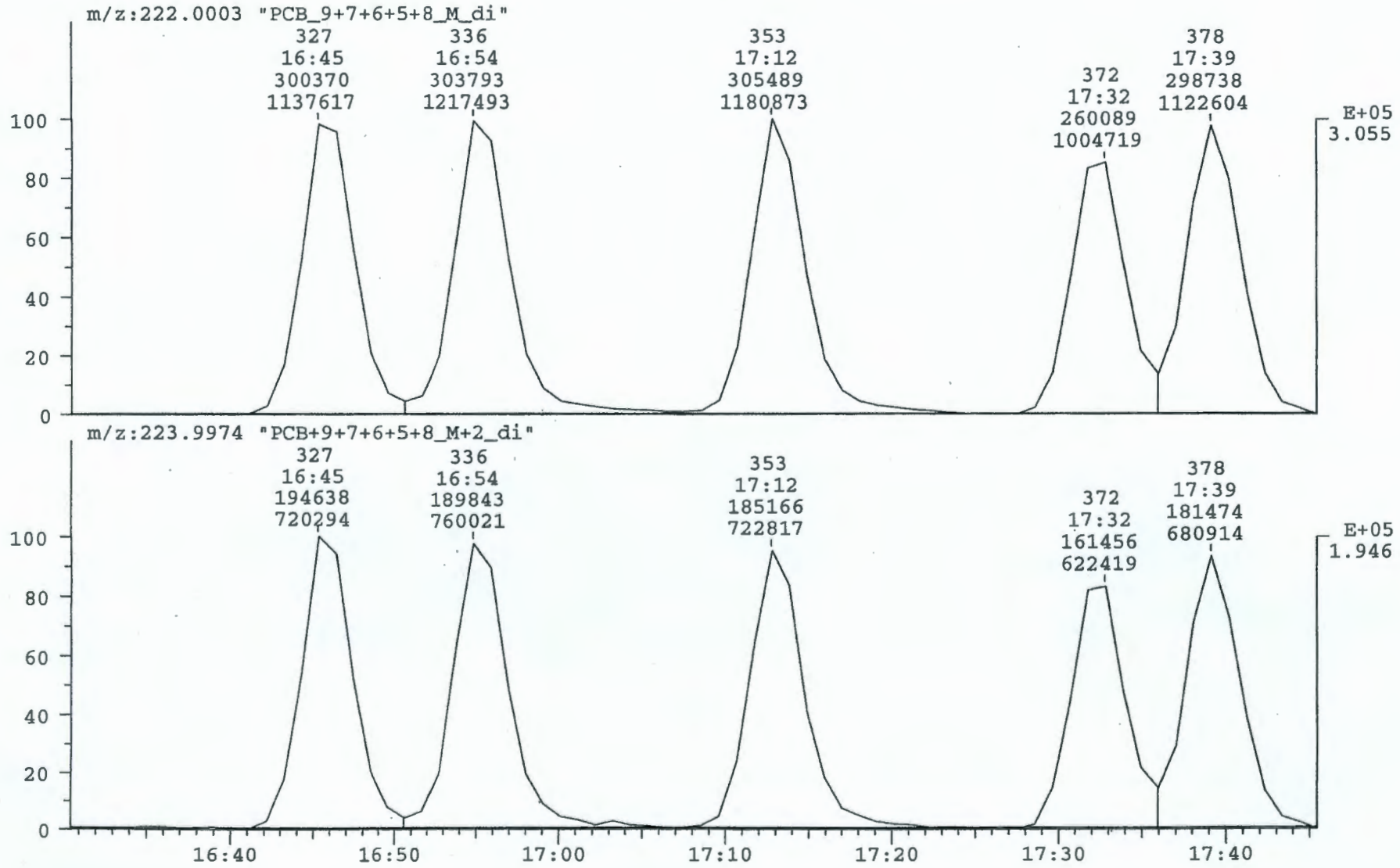
2245

```
CHRO:  a070927s2                          27-Sep-07   Elapse:  14:51.2      219
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1               Start :  22:14:43    2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville             Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   189 > 244        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  -3, 3.0
Disp:  Height  Area
```

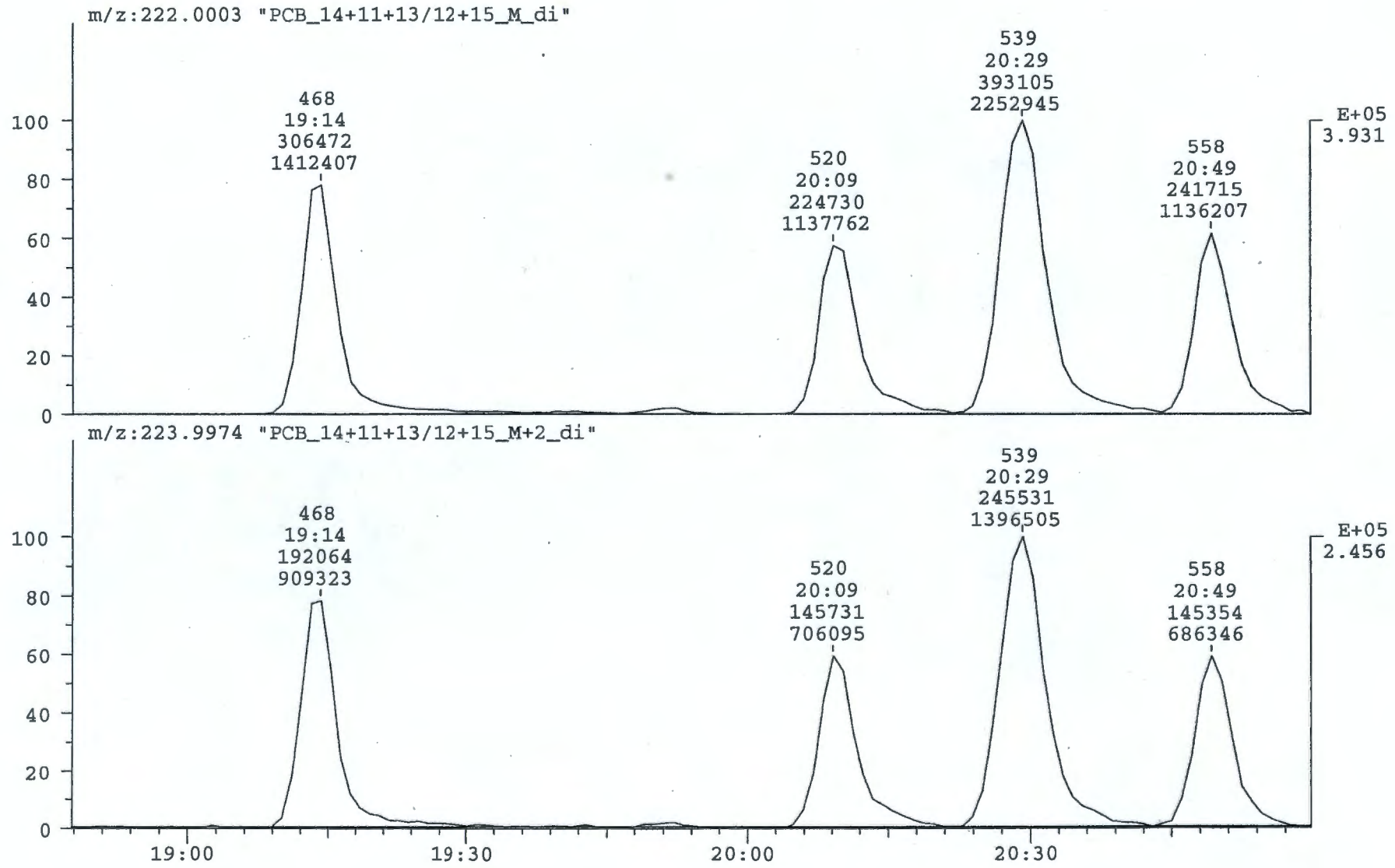


2246

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  17:09.6      350
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43    2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   313 > 384            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

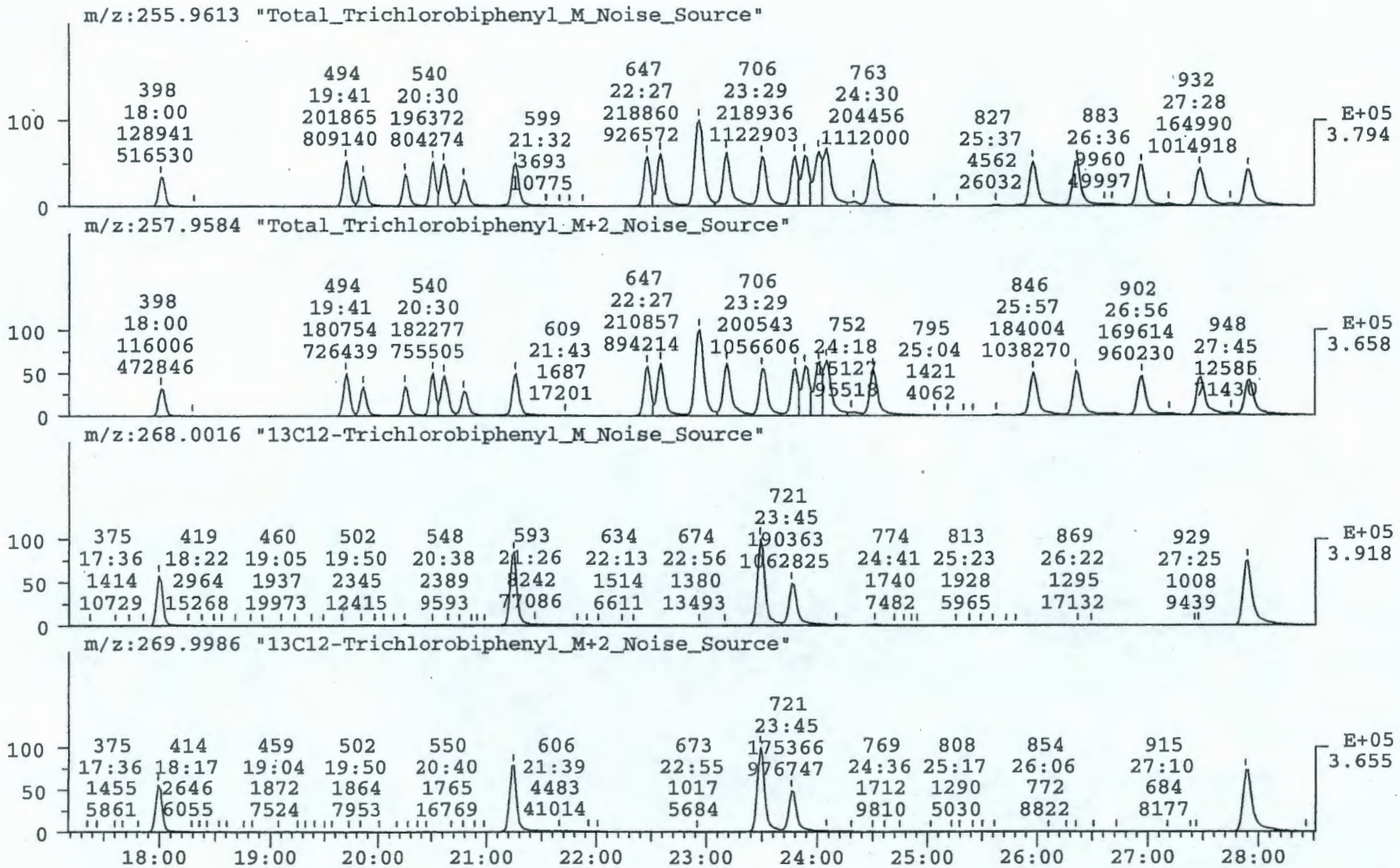


CHRO: a070927s2 27-Sep-07 Elapse: 19:56.4 508
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 443 > 568 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 2 Label : -3, 3.0
Disp: Height Area



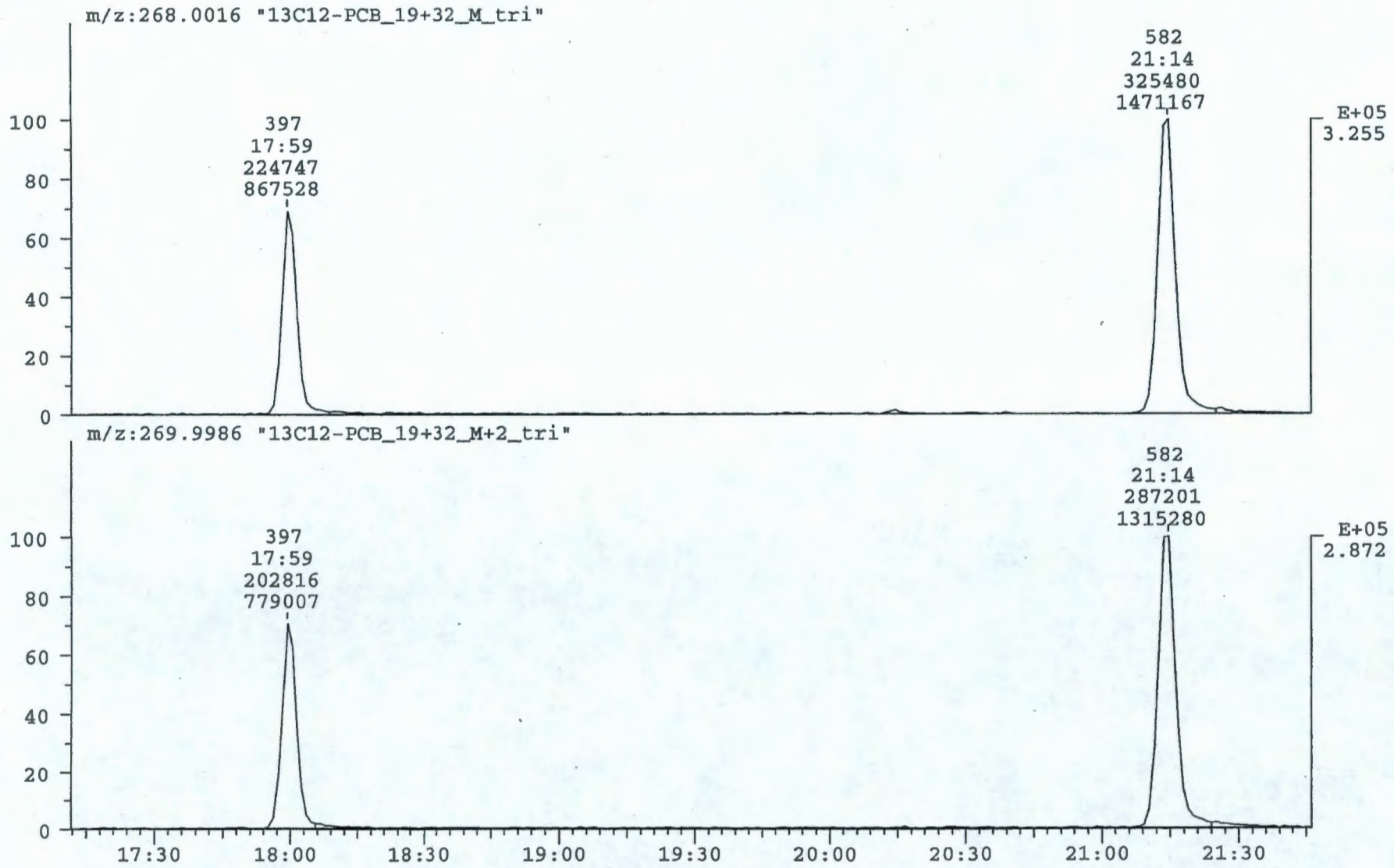
2248

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  22:53.9     671
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   351 > 991            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



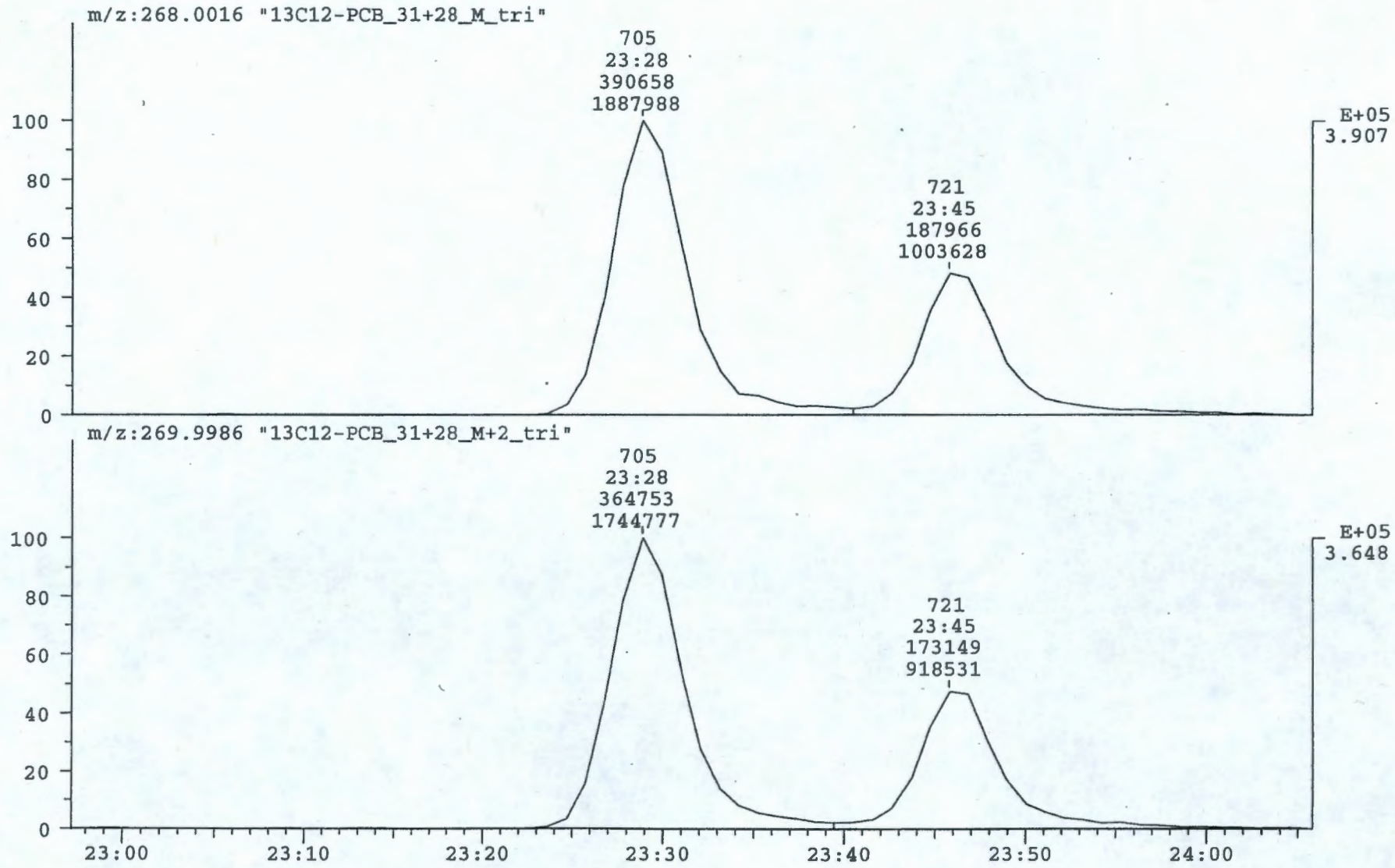
2249

CHRO: a070927s2 27-Sep-07 Elapse: 19:18.4 472
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 352 > 612 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area

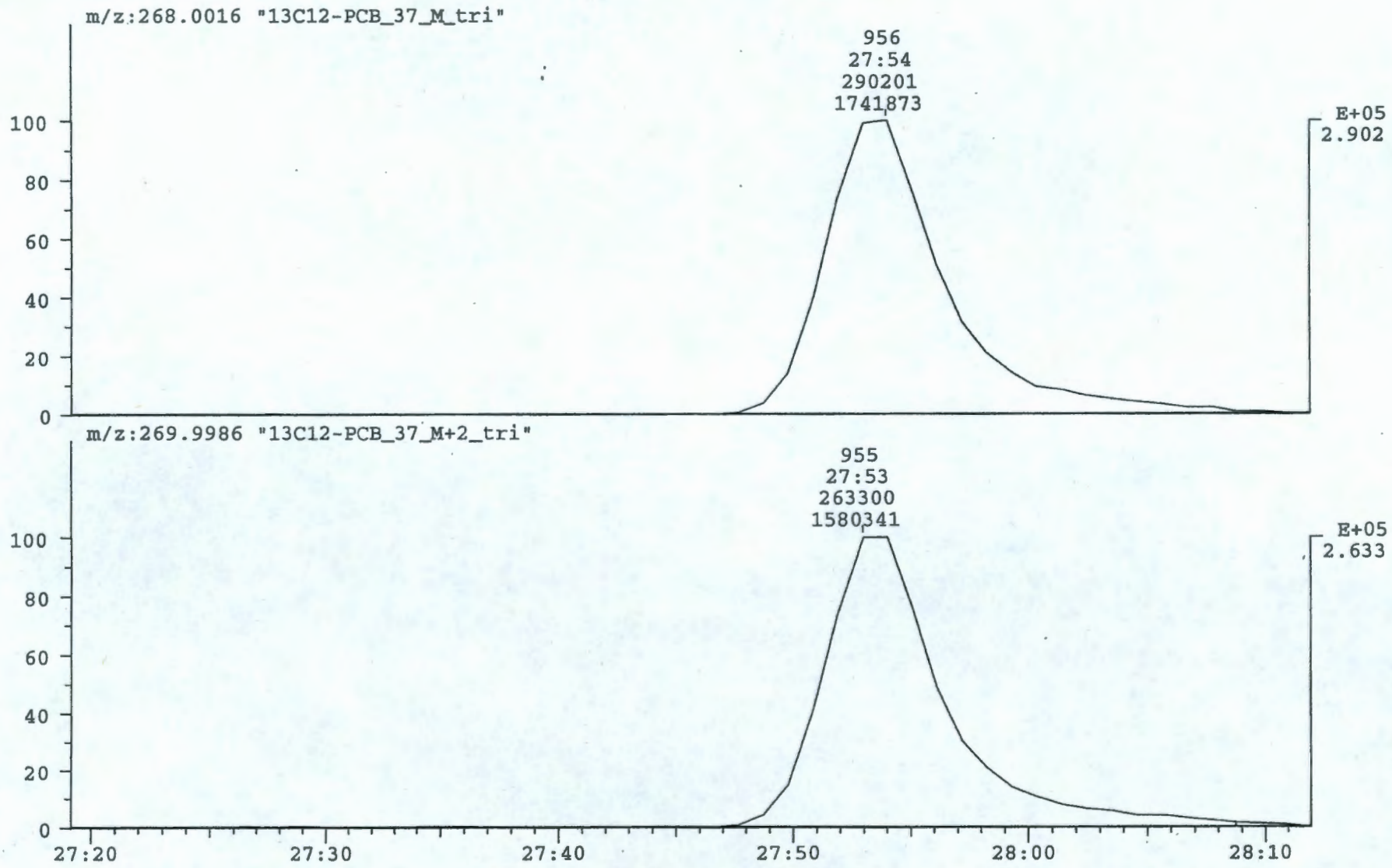


2250

CHRO: a070927s2 27-Sep-07 Elapse: 23:23.6 700
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 675 > 740 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

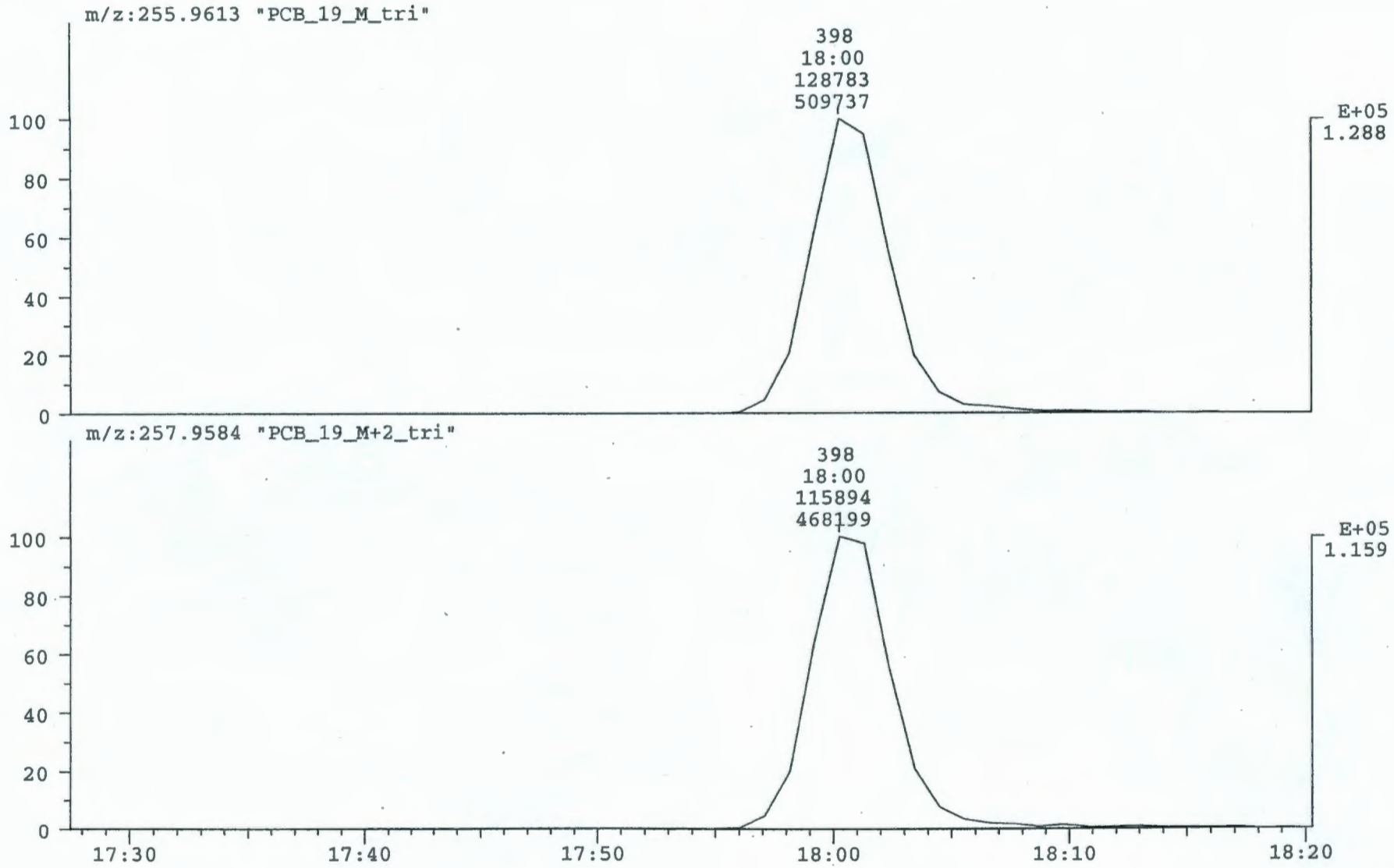


```
CHRO:  a070927s2                                27-Sep-07   Elapse:  27:45.5     948
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   923 > 973              Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



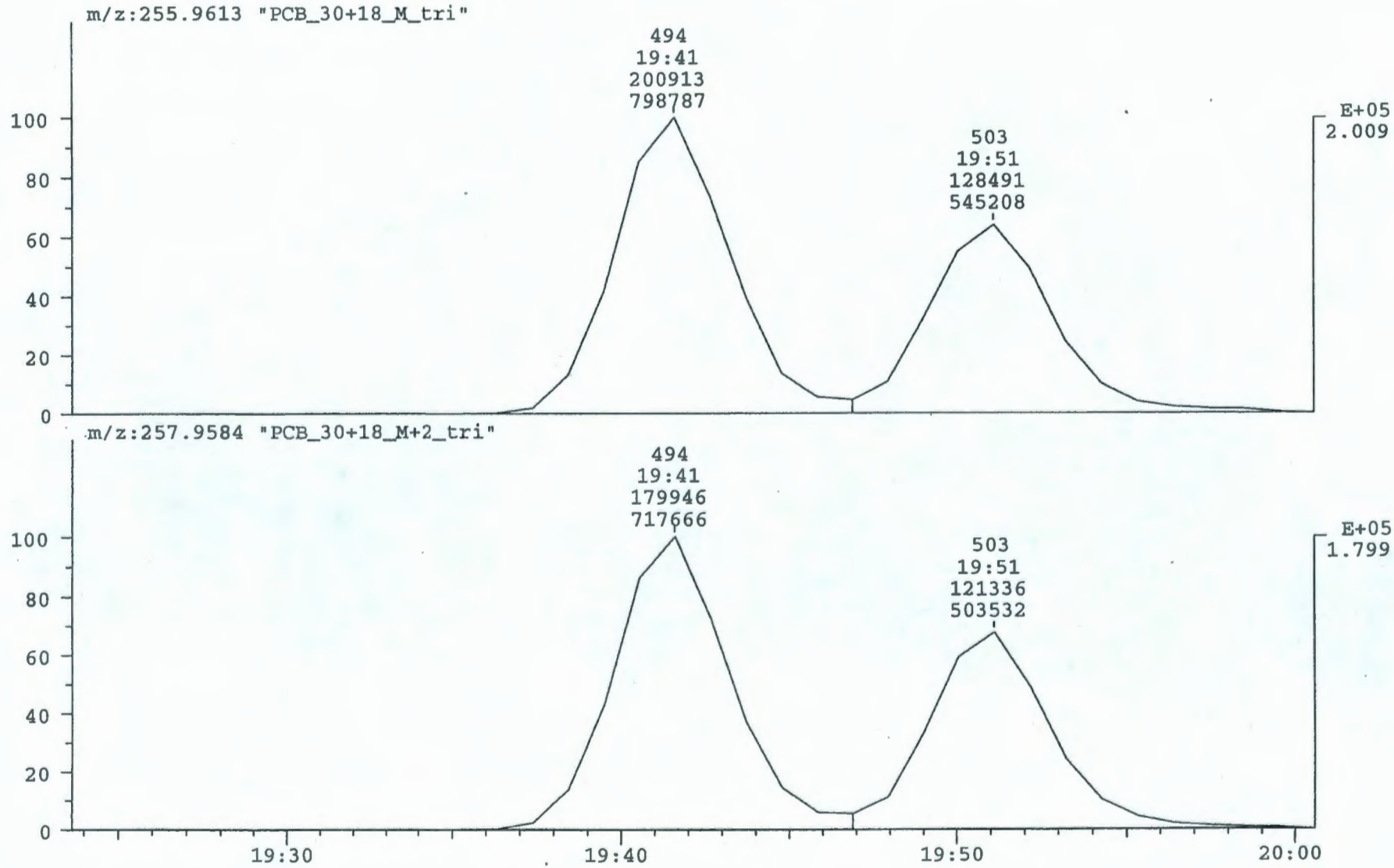
2252

```
CHRO:  a070927s2                                27-Sep-07   Elapse:  17:53.9      392
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43    2602
Comm:  Inst=mld/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   367 > 417             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



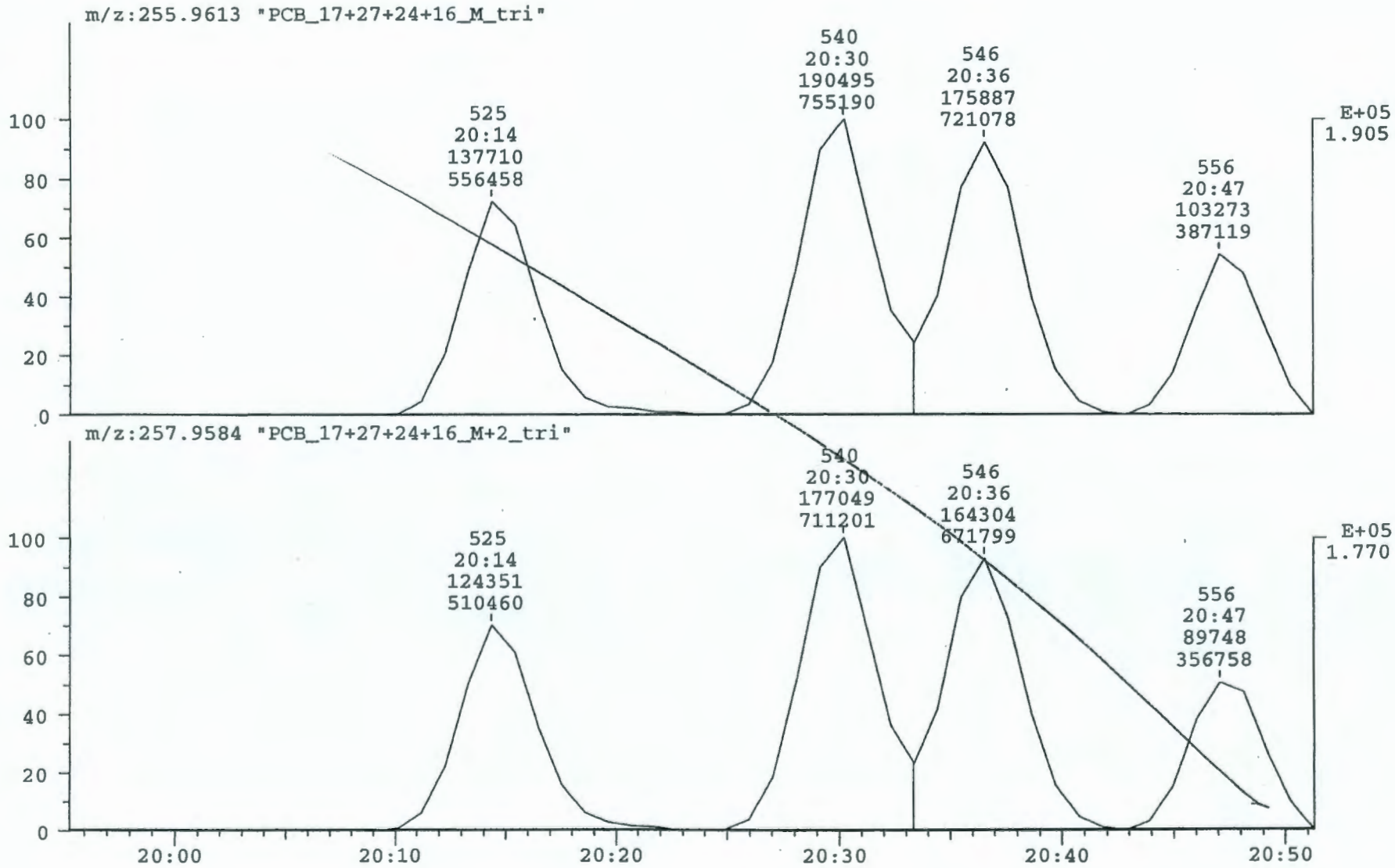
2253

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  19:44.8     497
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   477 > 512             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



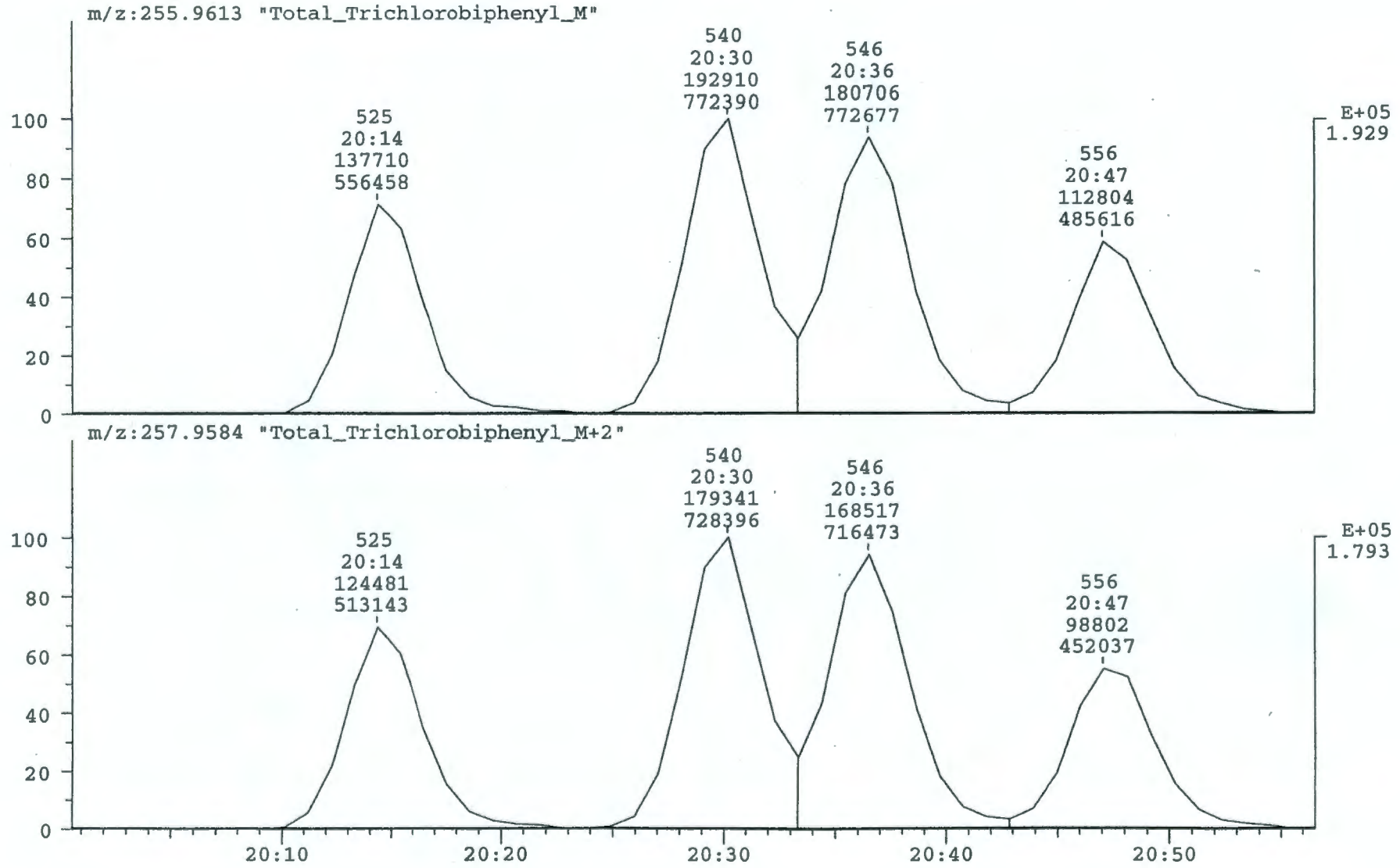
2254

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  20:27.9     537
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   507 > 560            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

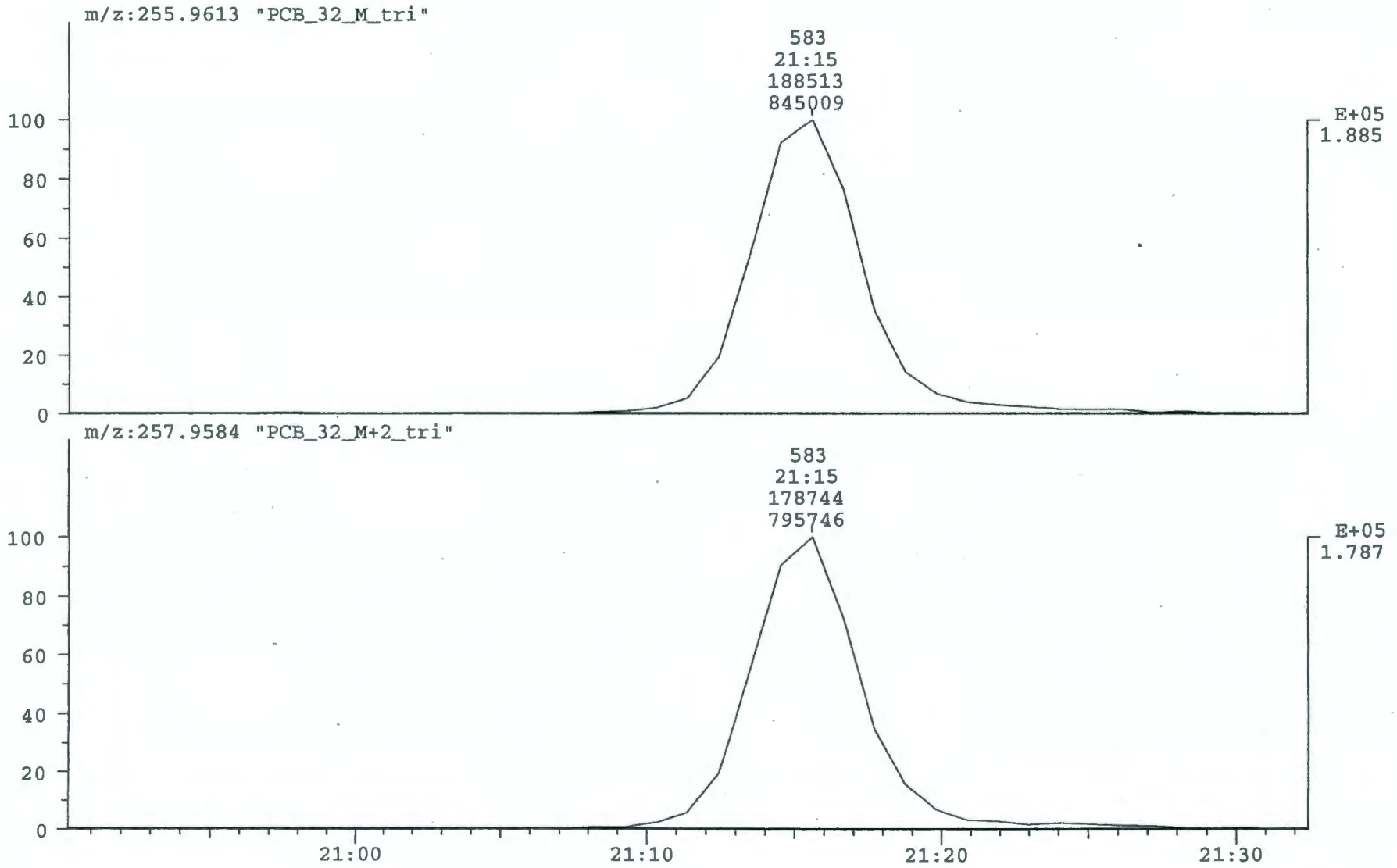


2255

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  56:12      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   512 > 565            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

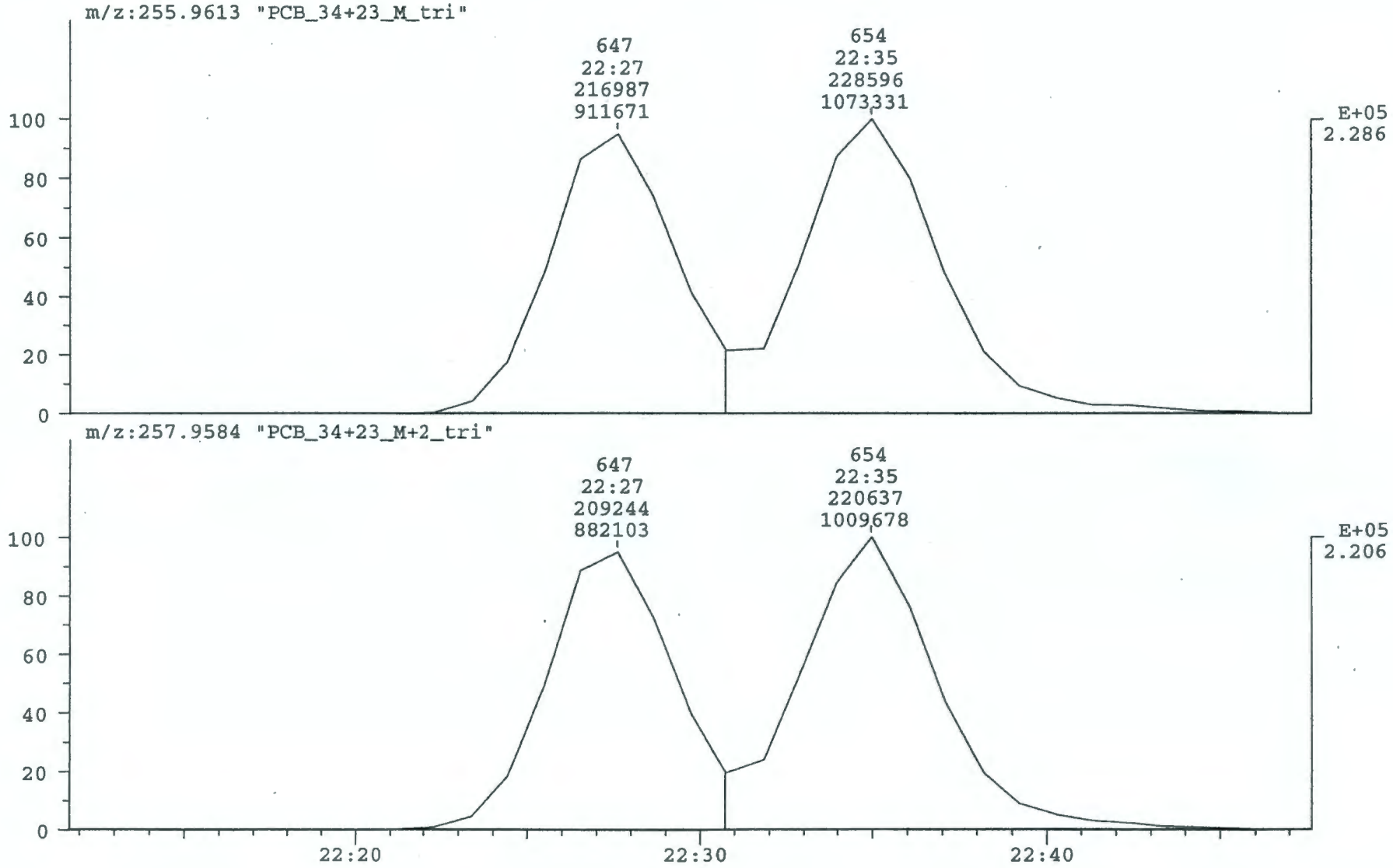


```
CHRO:  a070927s2                                27-Sep-07  Elapse:  21:11.3      579
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43    2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   559 > 599            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

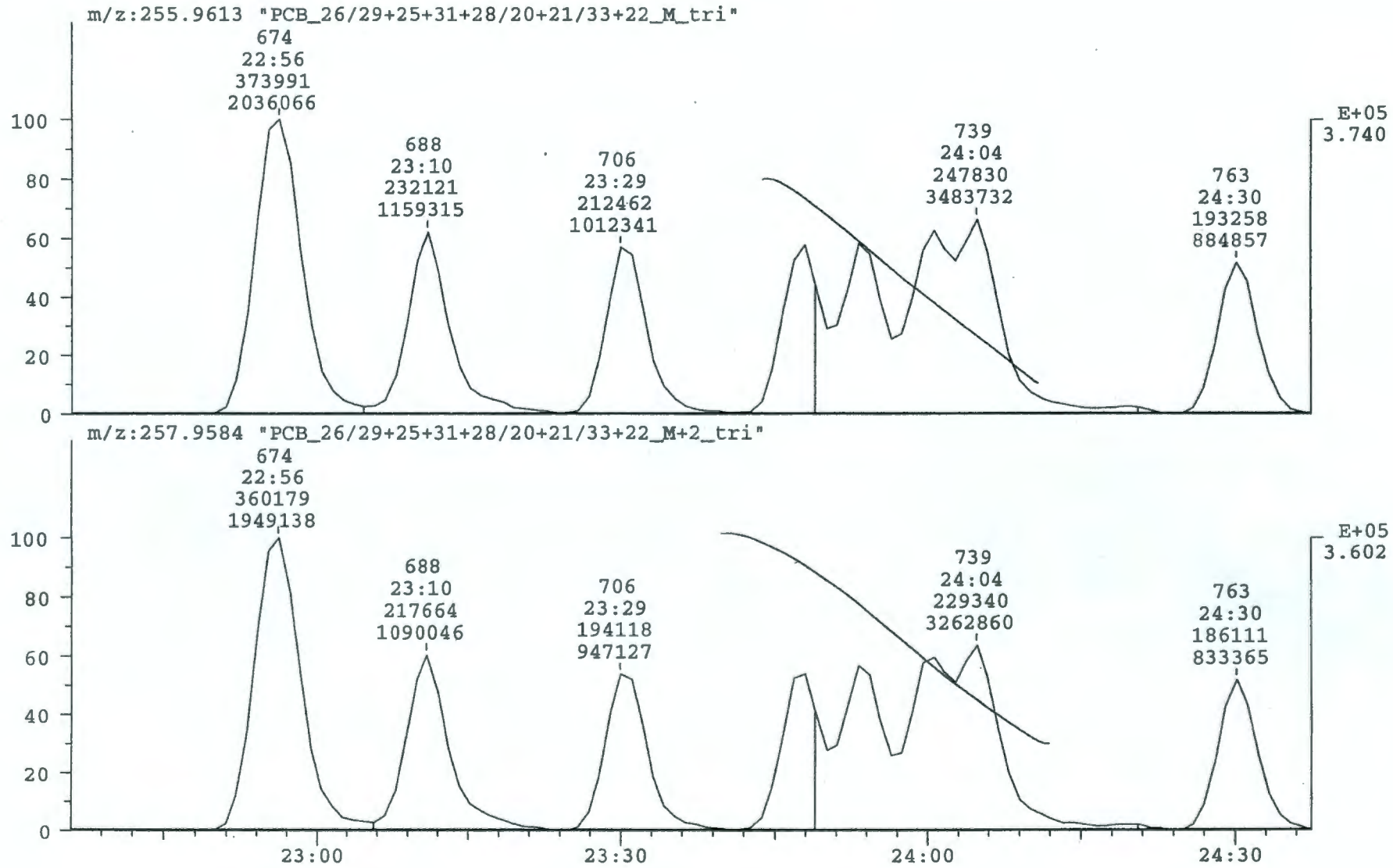


2257

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  22:24.4      644
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43    2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   632 > 666            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

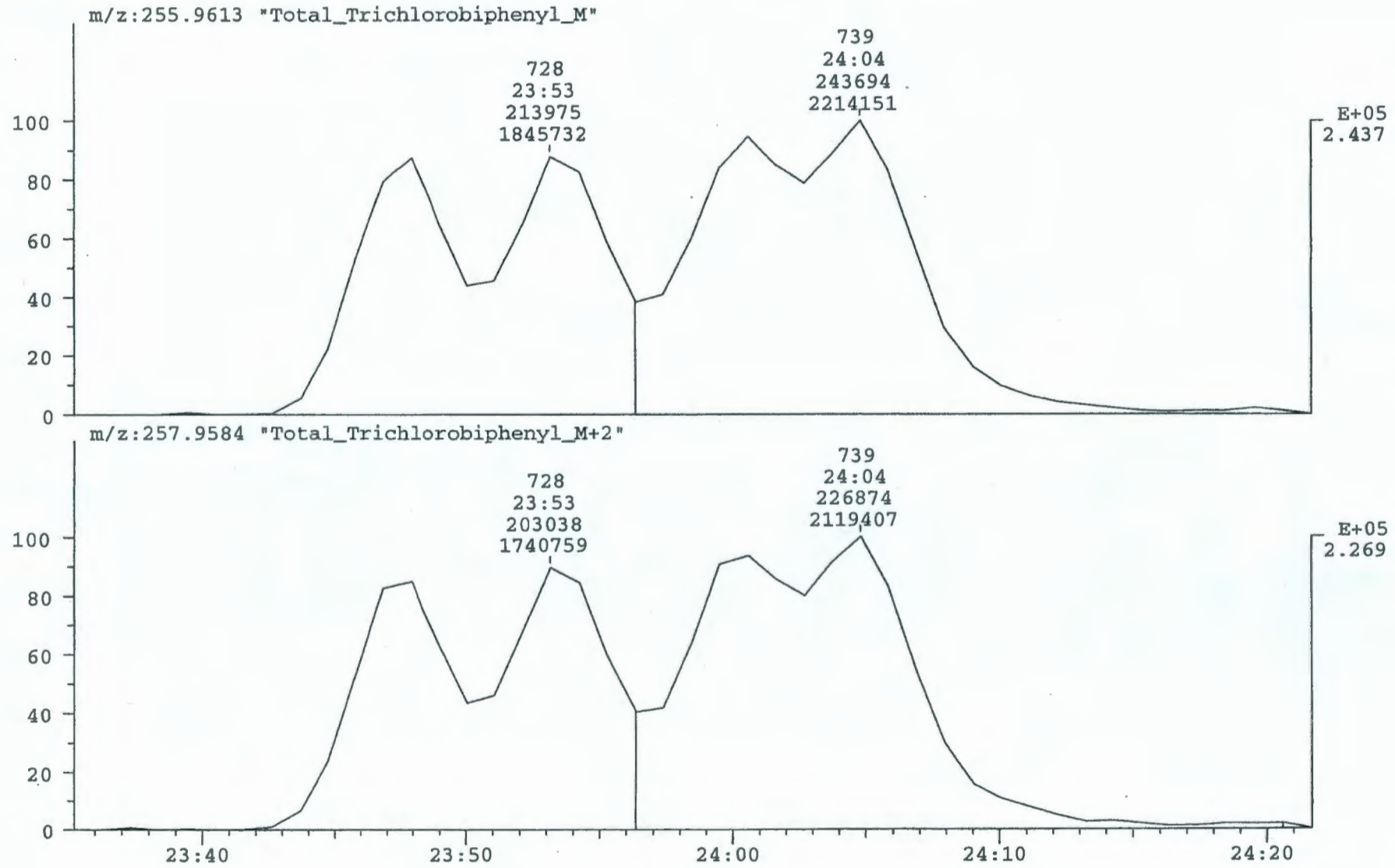


```
CHRO:  a070927s2                                27-Sep-07  Elapse:  23:55.2     730
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=mld/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   655 > 770            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 8              Label :  -3, 3.0
Disp:  Height  Area
```

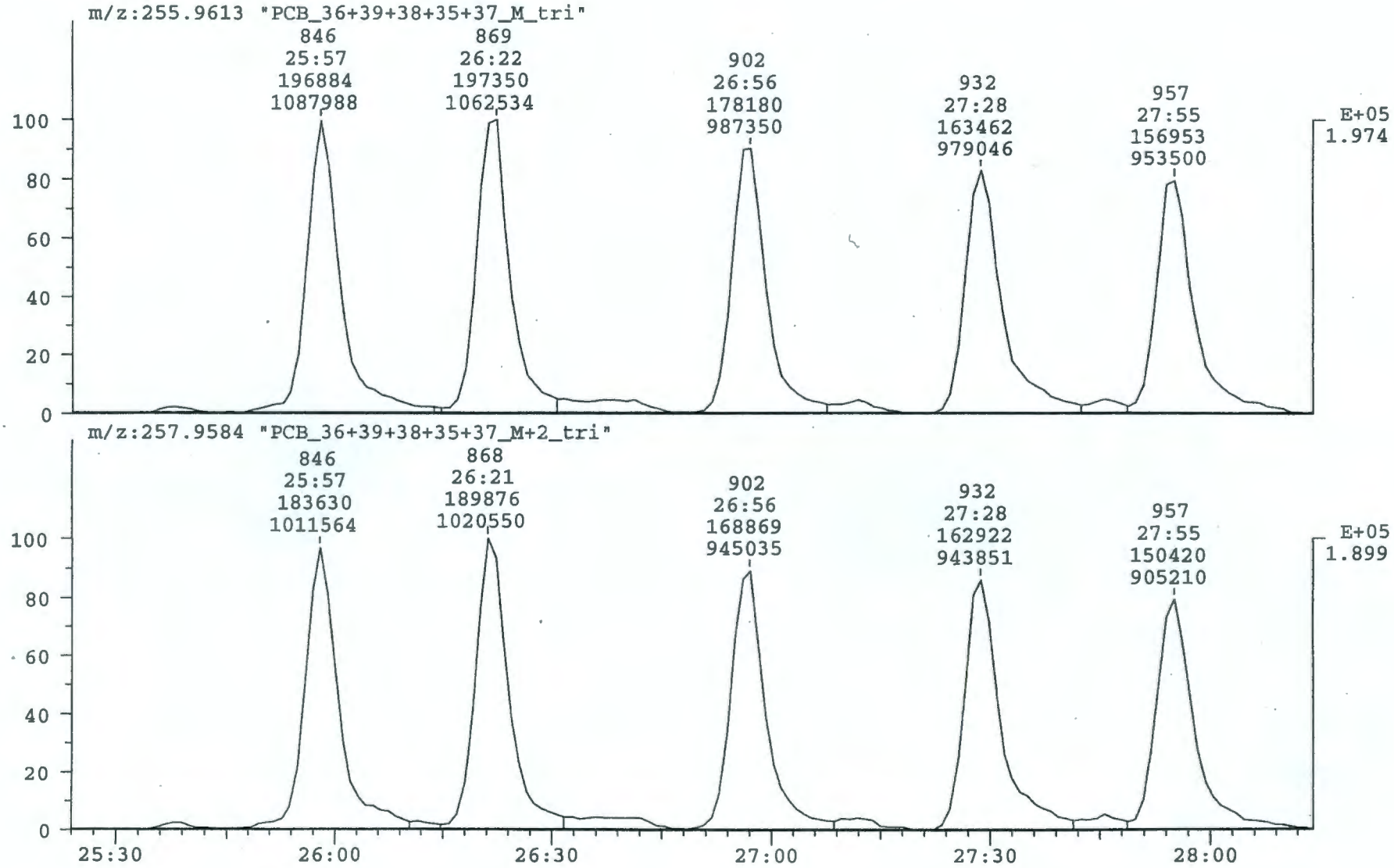


2259

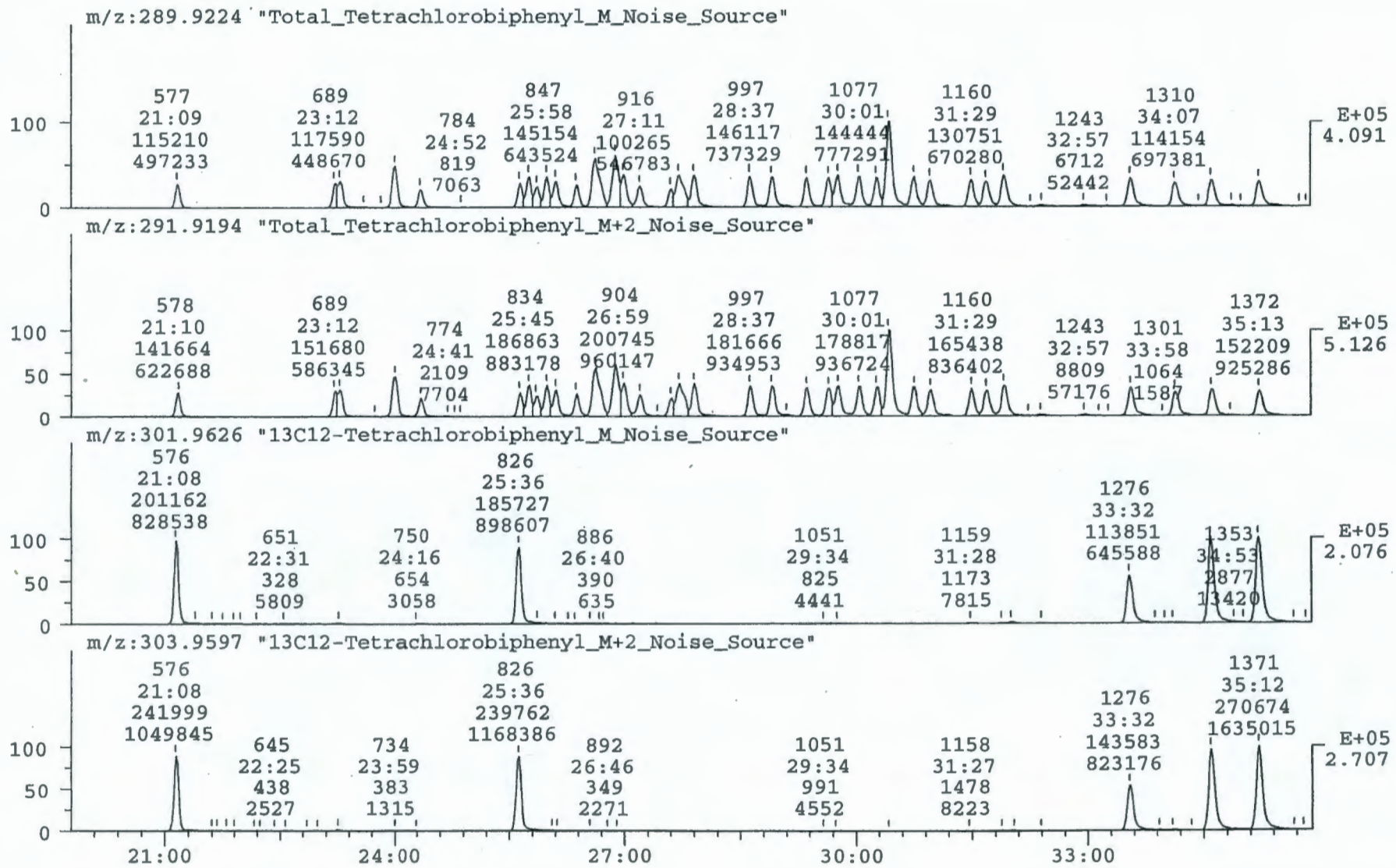
CHRO: a070927s2 27-Sep-07 Elapse: 56:12 2556
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 711 > 755 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : 3, 3.0
Disp: Height Area



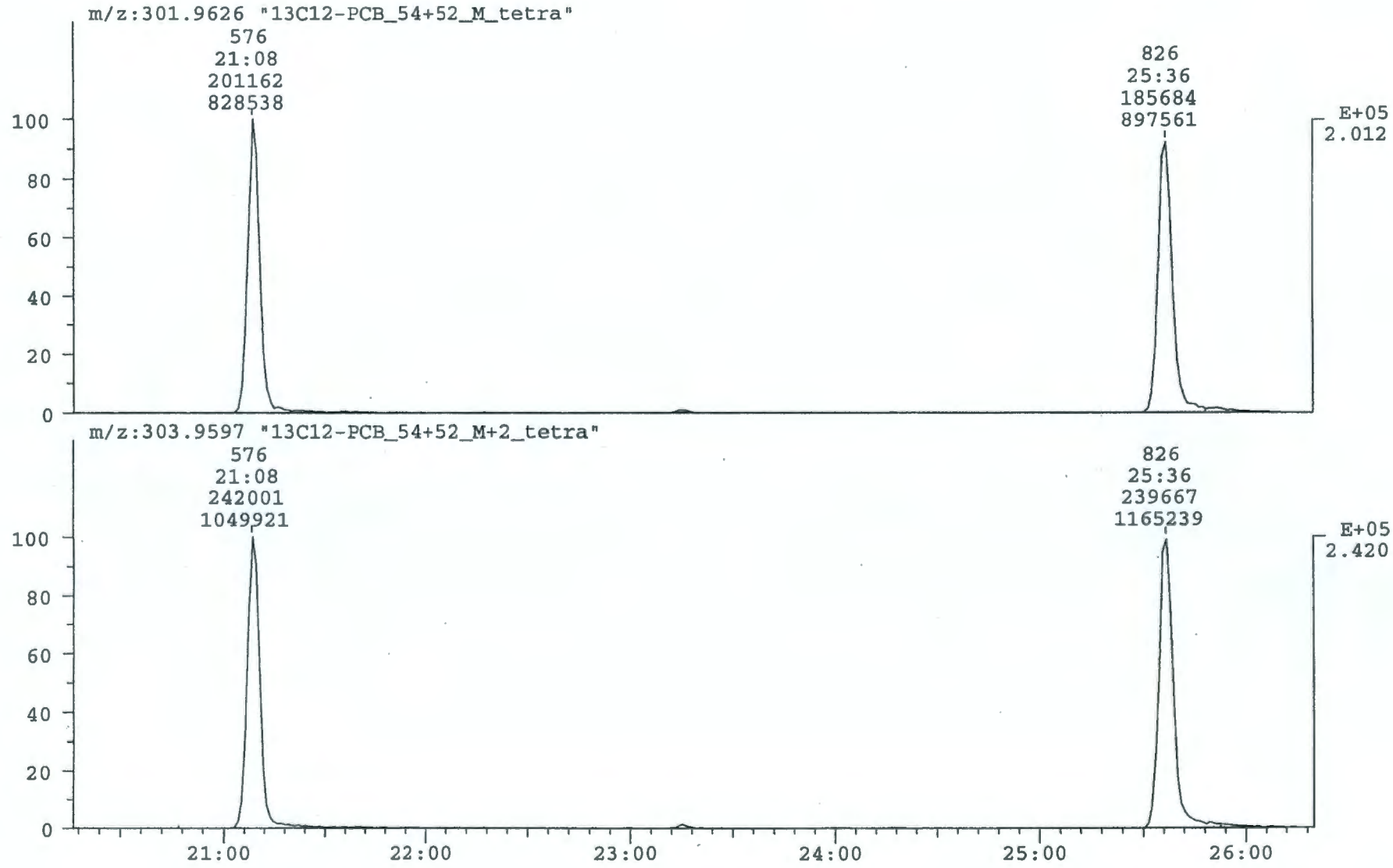
CHRO: a070927s2 27-Sep-07 Elapse: 26:53.8 899
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 814 > 975 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



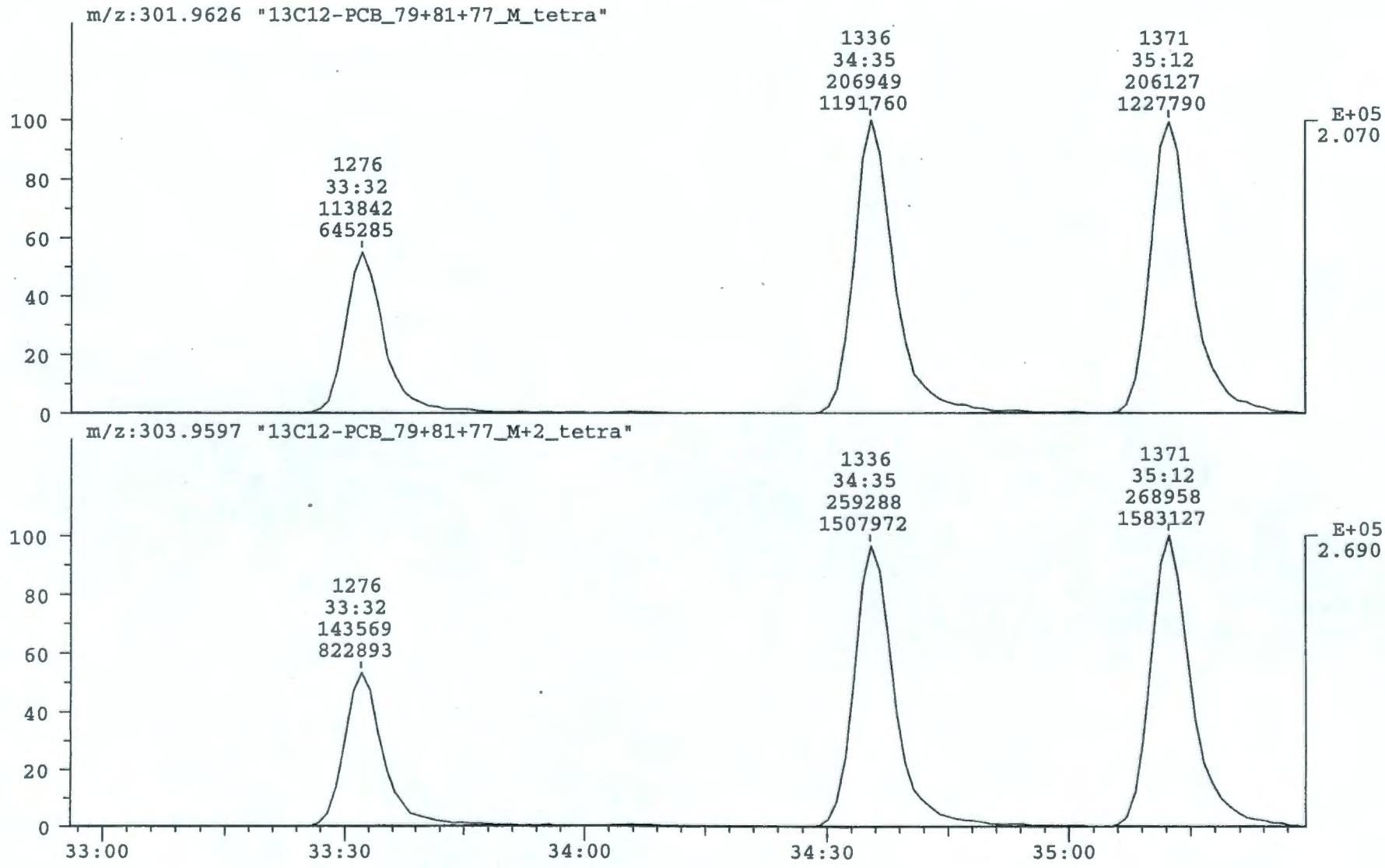
CHRO: a070927s2 27-Sep-07 Elapse: 27:50.8 953
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 500 > 1410 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



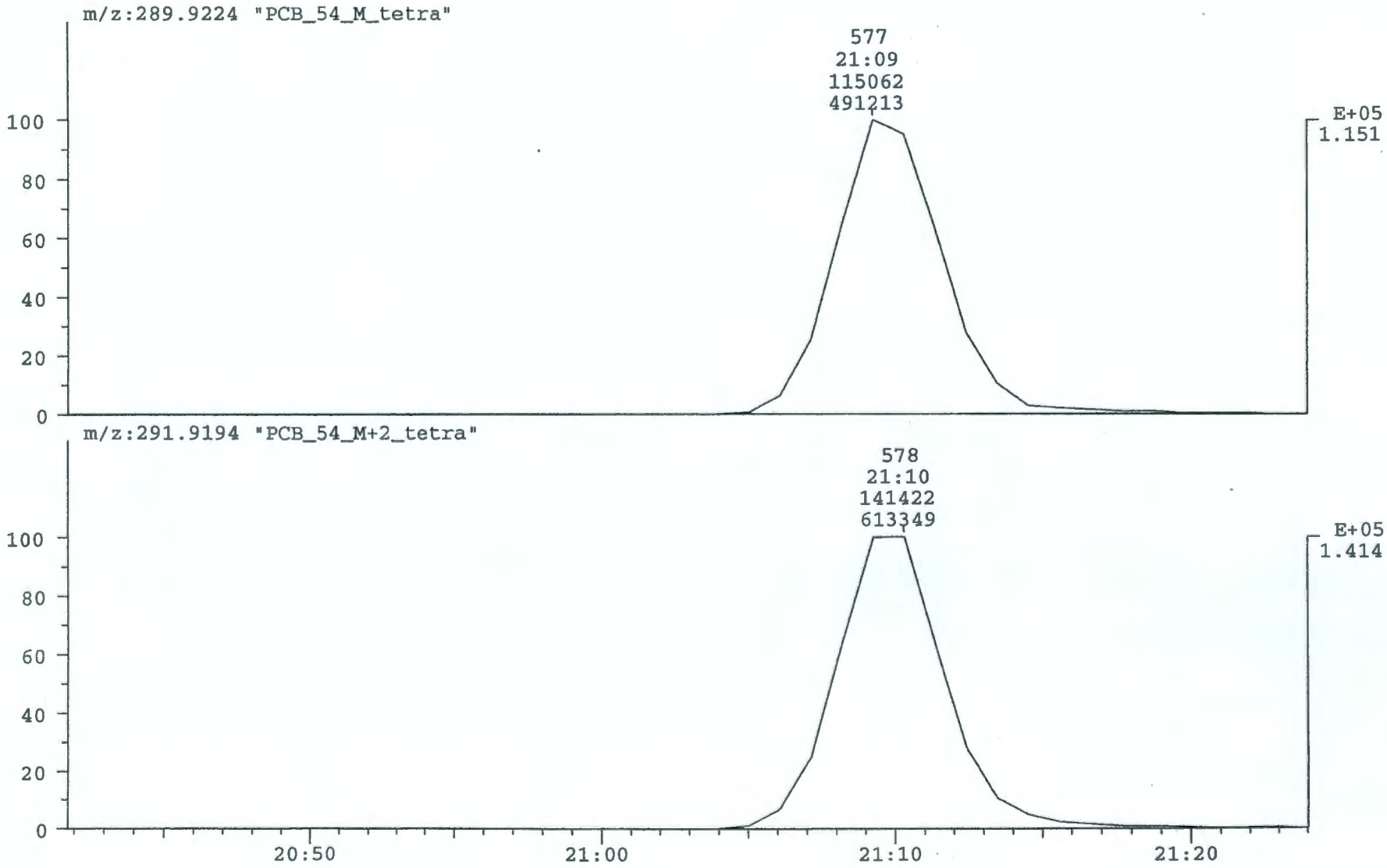
```
CHRO:  a070927s2                              27-Sep-07   Elapse:  23:20.4      697
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  22:14:43    2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville               Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   527 > 867           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



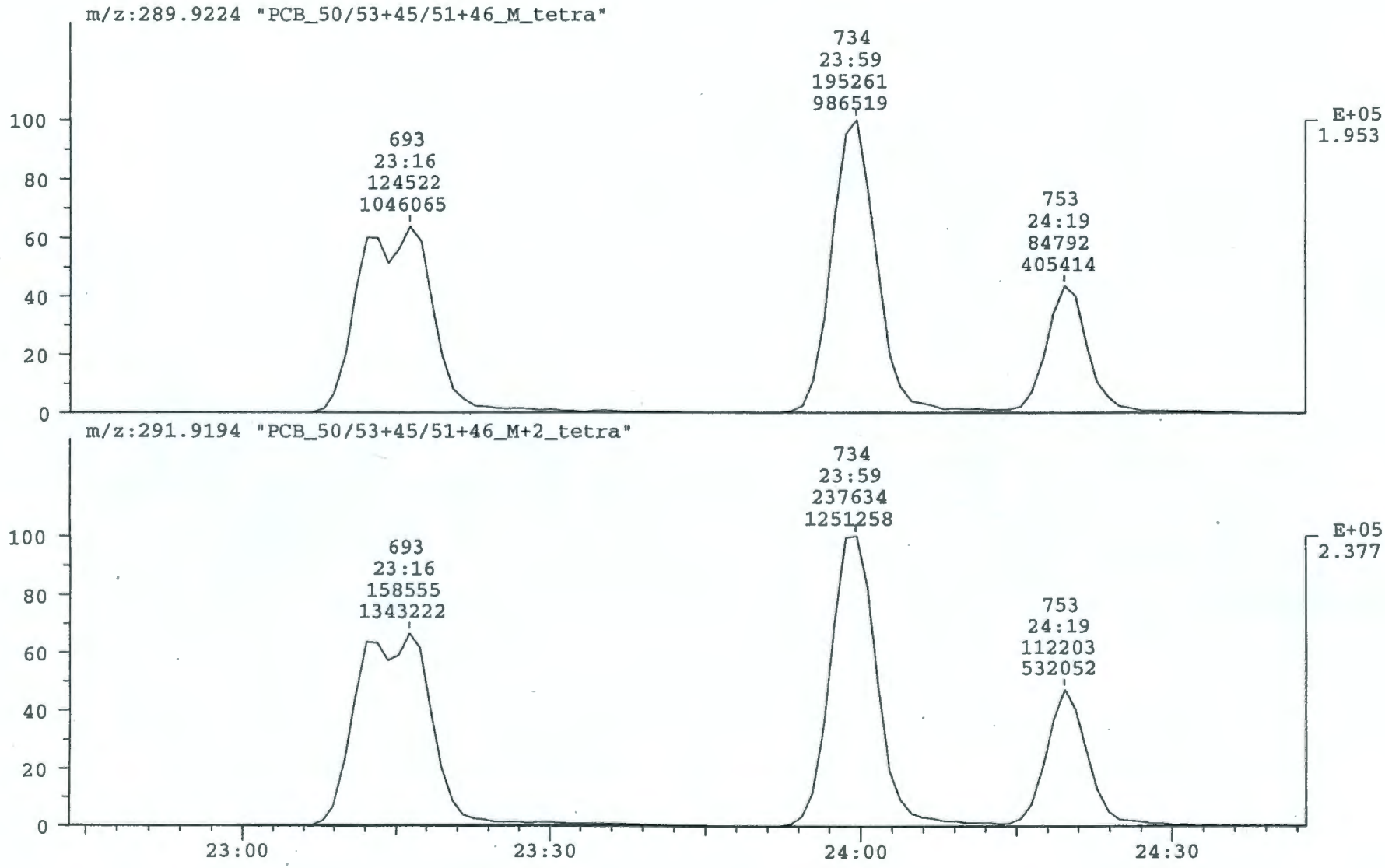
```
CHRO:  a070927s2                                27-Sep-07   Elapse:  34:10      1312
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1242 > 1387            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



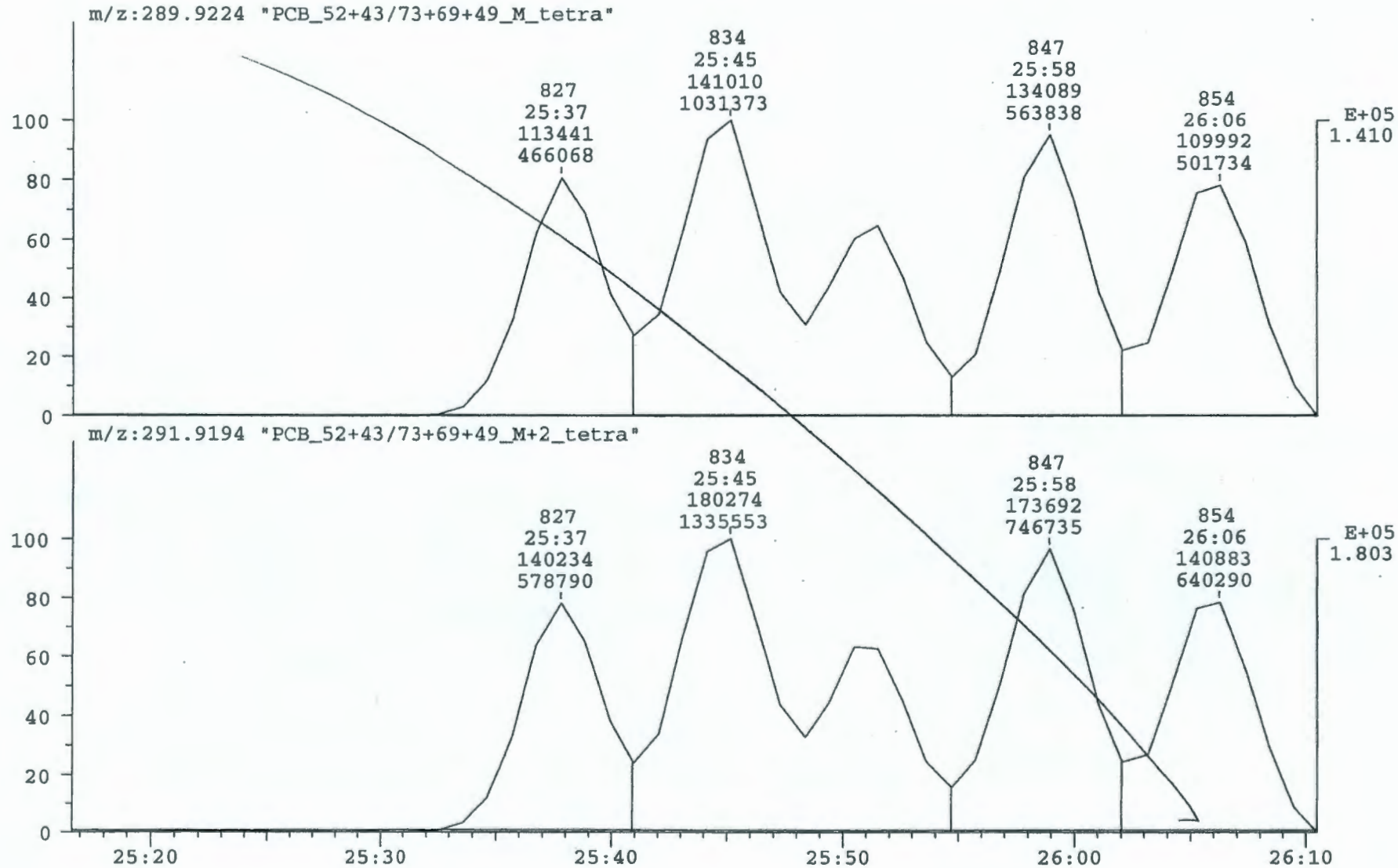
```
CHRO:  a070927s2                          27-Sep-07   Elapse:  21:02.9      571
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1               Start :  22:14:43    2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville             Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   551 > 591        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  -3, 3.0
Disp:  Height  Area
```



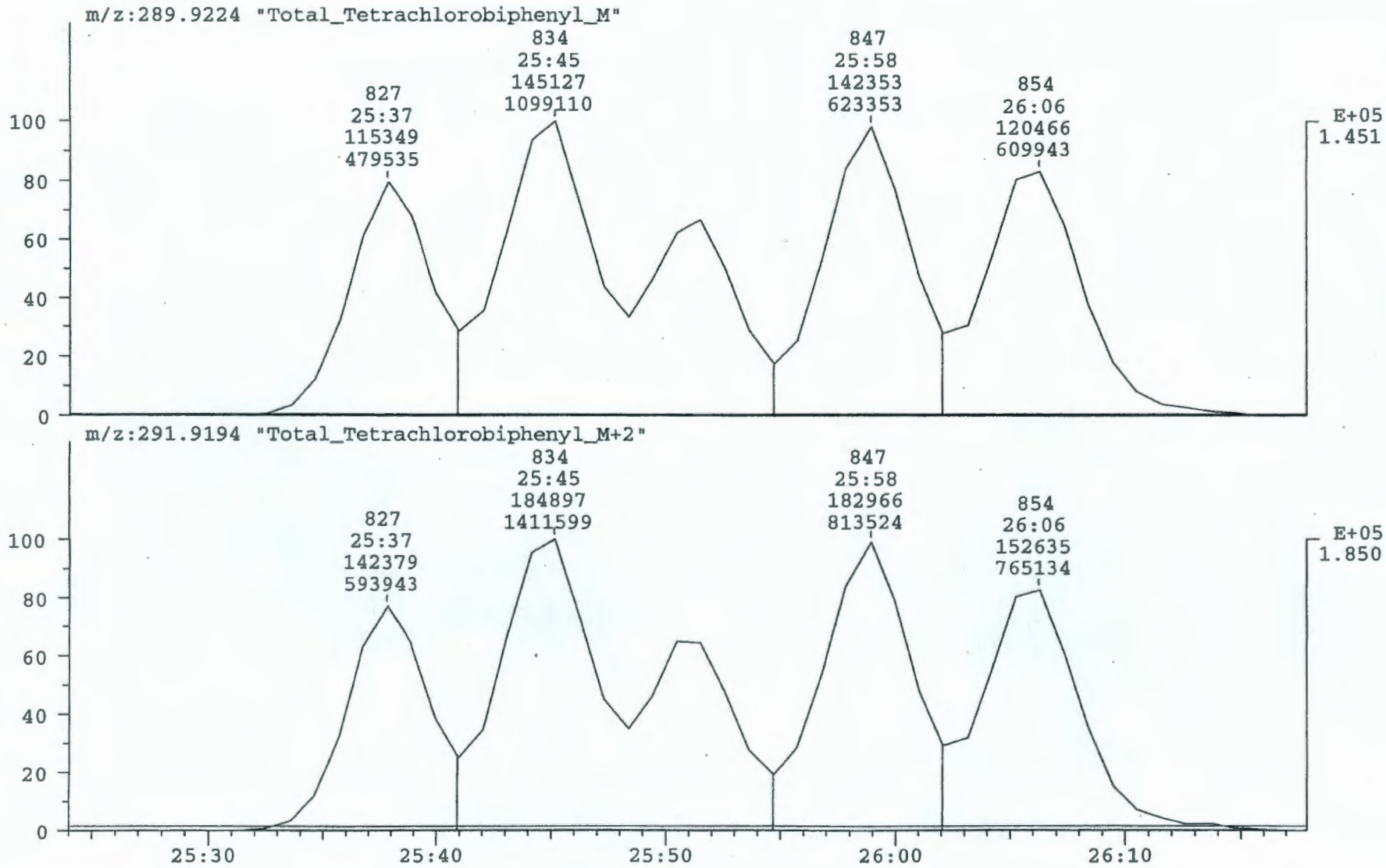
```
CHRO:  a070927s2                          27-Sep-07   Elapse:  23:50.0     725
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1               Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville             Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   662 > 775        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 9           Label :  -3, 3.0
Disp:  Height  Area
```



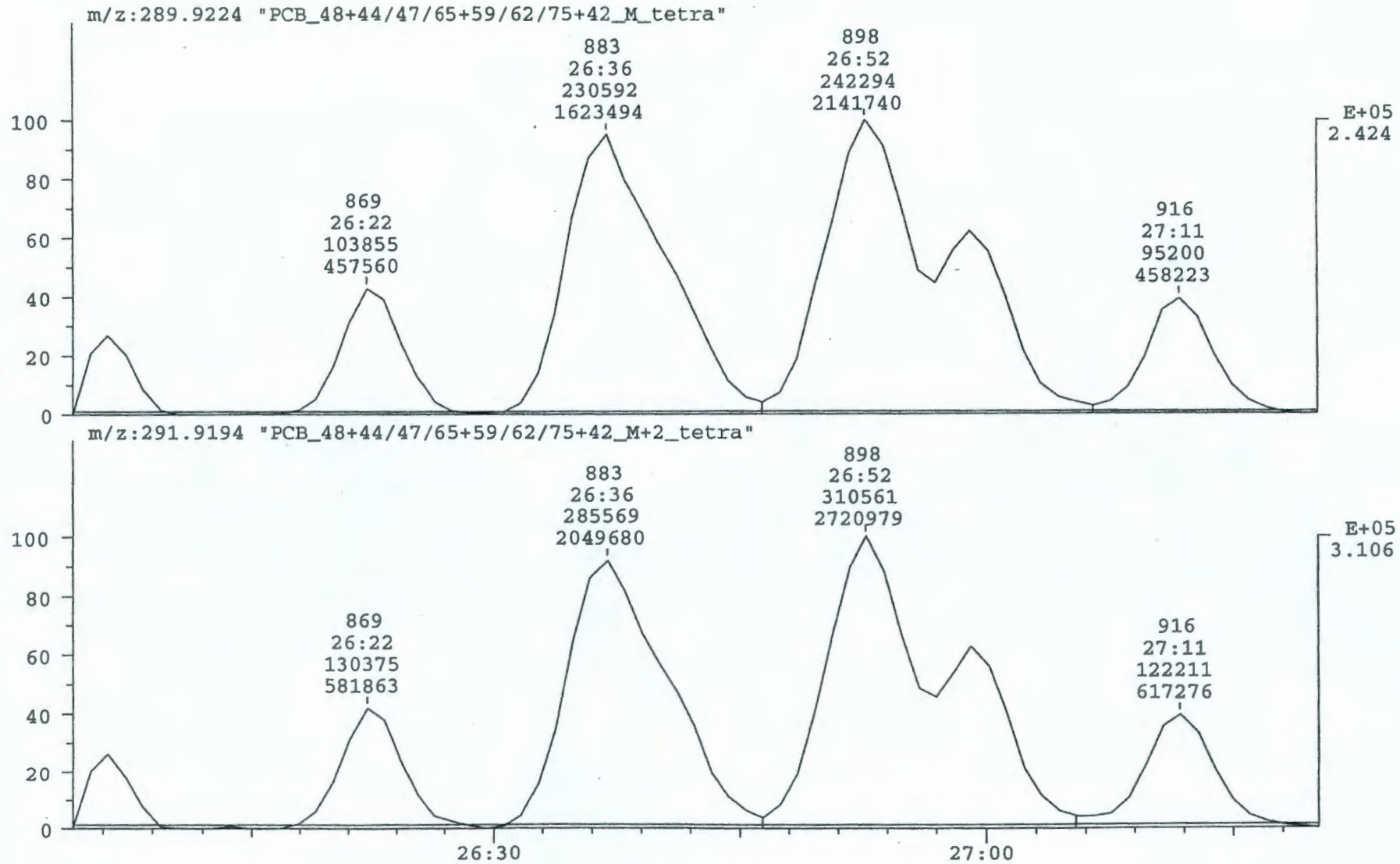
CHRO: a070927s2 27-Sep-07 Elapse: 25:51.5 840
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 807 > 858 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



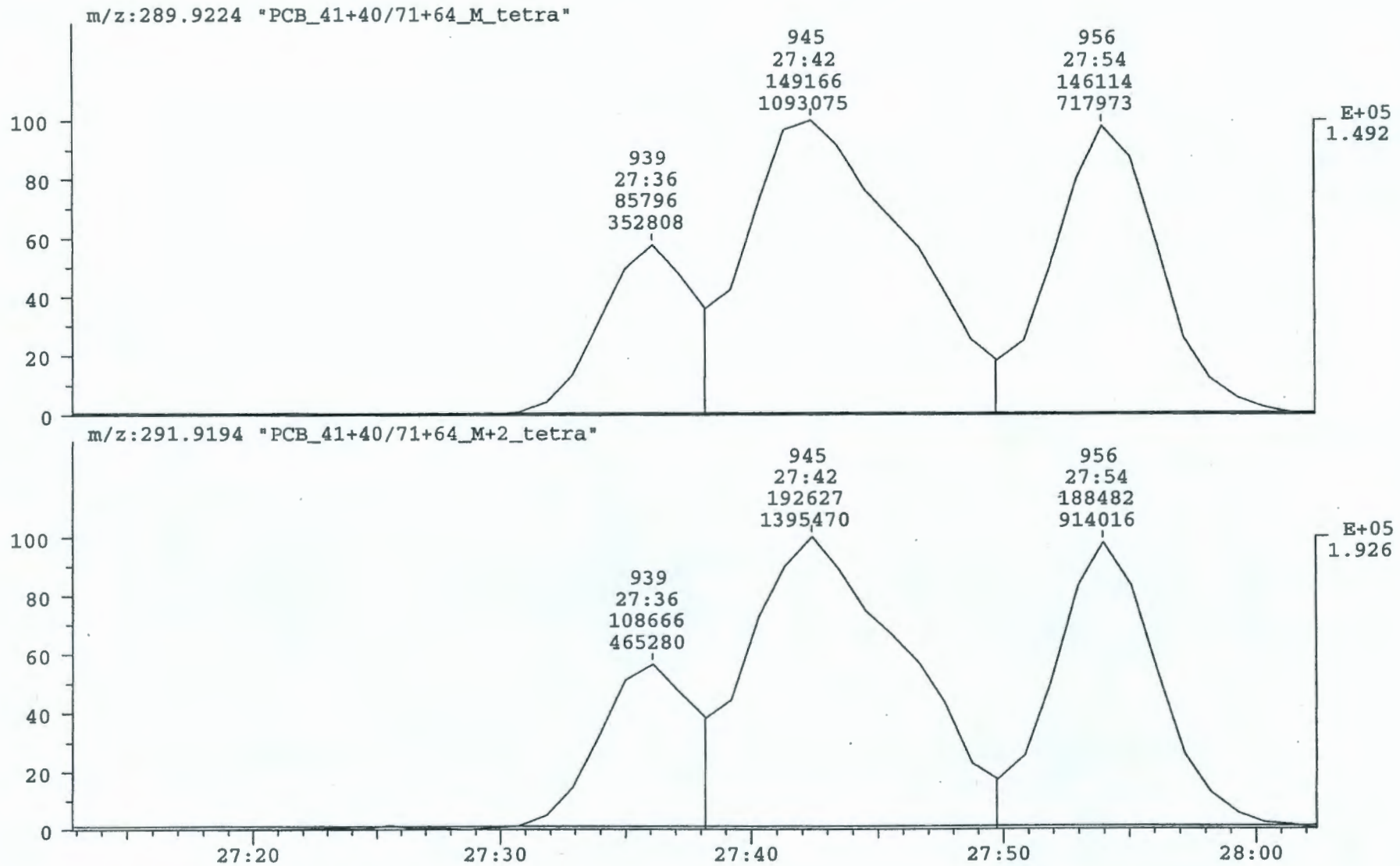
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  56:12      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   814 > 865            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5               Label :  -3, 3.0
Disp:  Height  Area
```



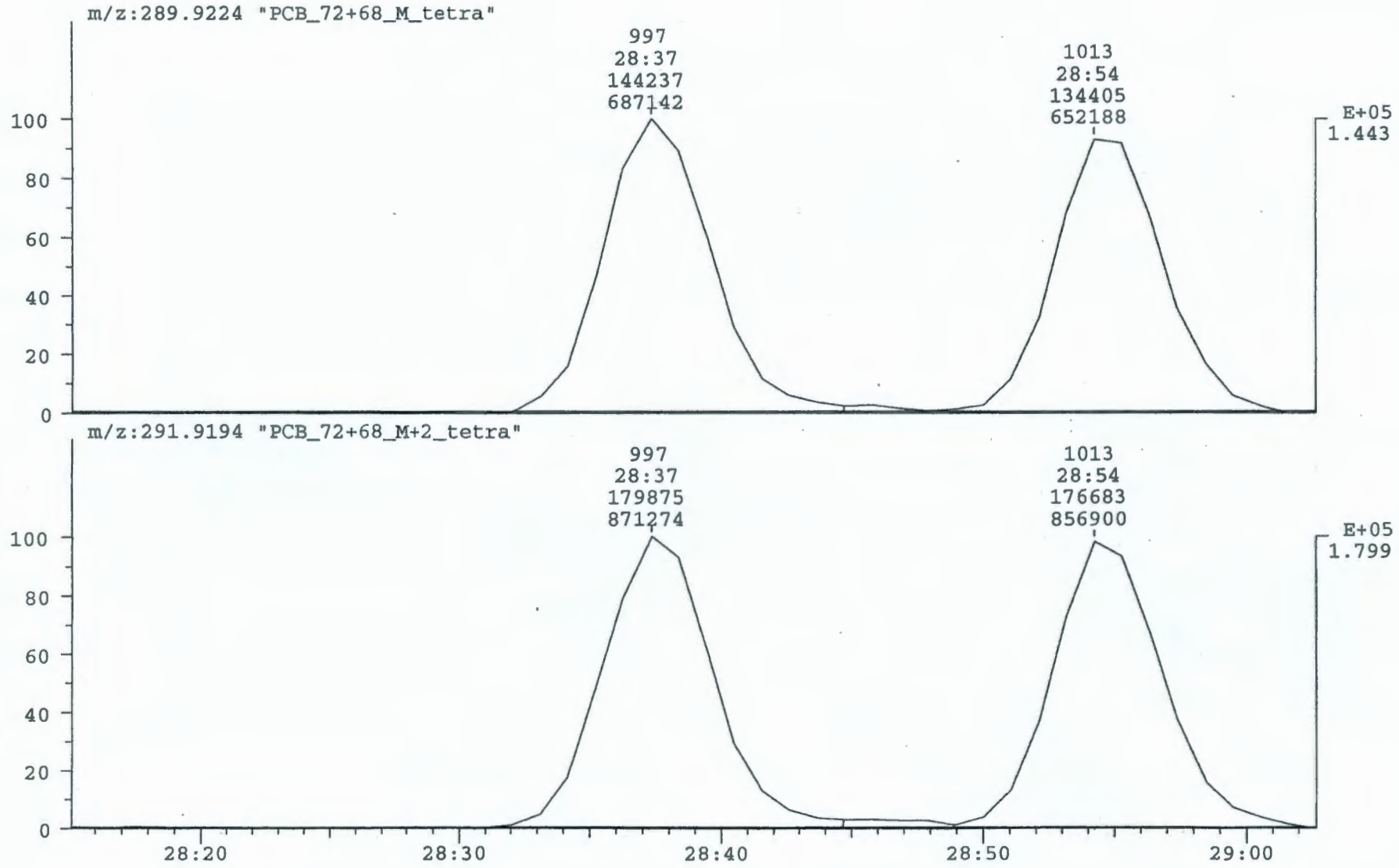
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  26:46.4      892
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43    2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   852 > 924            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a070927s2                                27-Sep-07  Elapse:  27:46.6      949
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43    2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   917 > 964            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2               Label :  -3, 3.0
Disp:  Height  Area
```

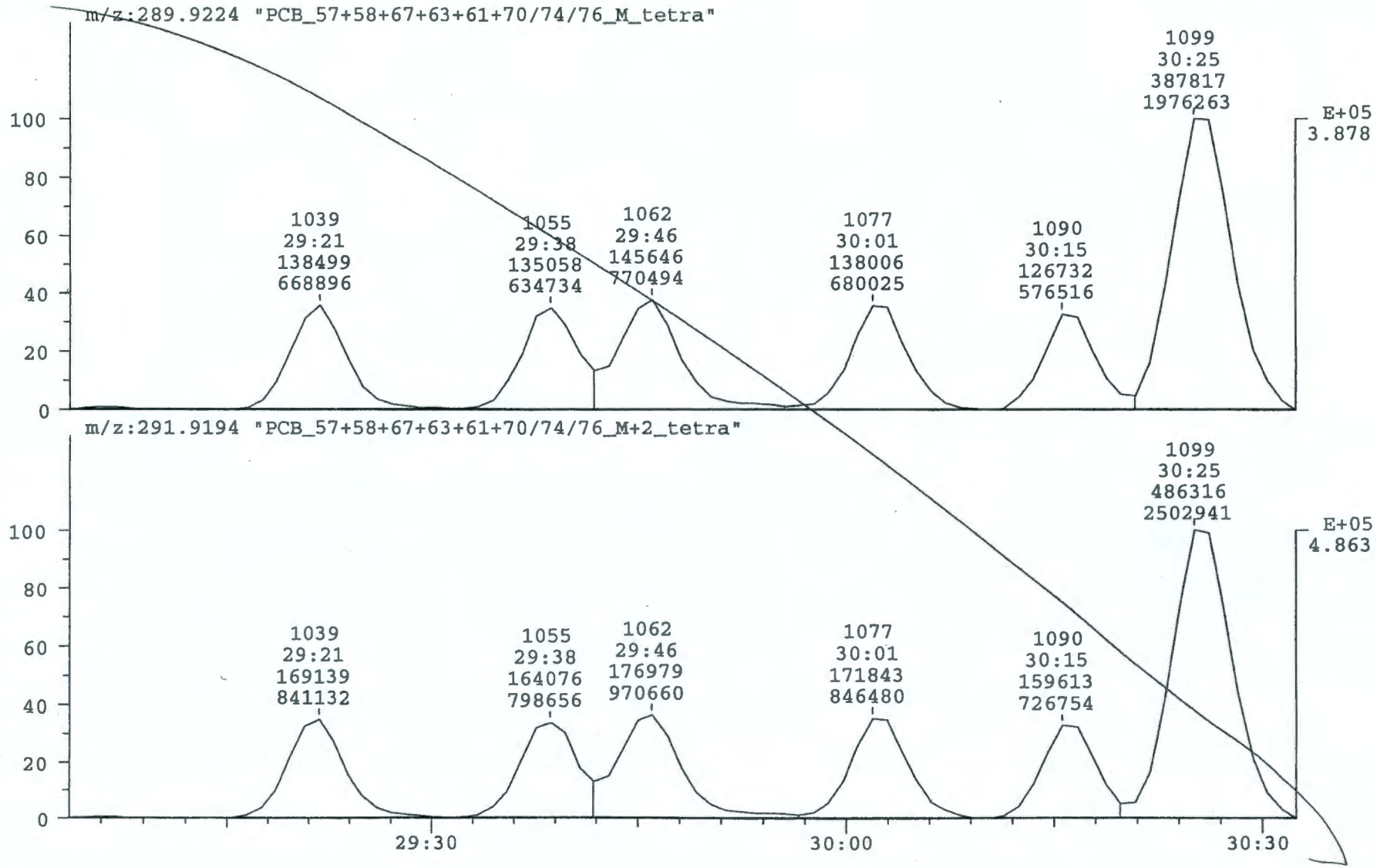


```
CHRO:  a070927s2                          27-Sep-07   Elapse:  28:46      1006
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1               Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville             Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   976 > 1021       Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 1           Label :  -3, 3.0
Disp:  Height  Area
```



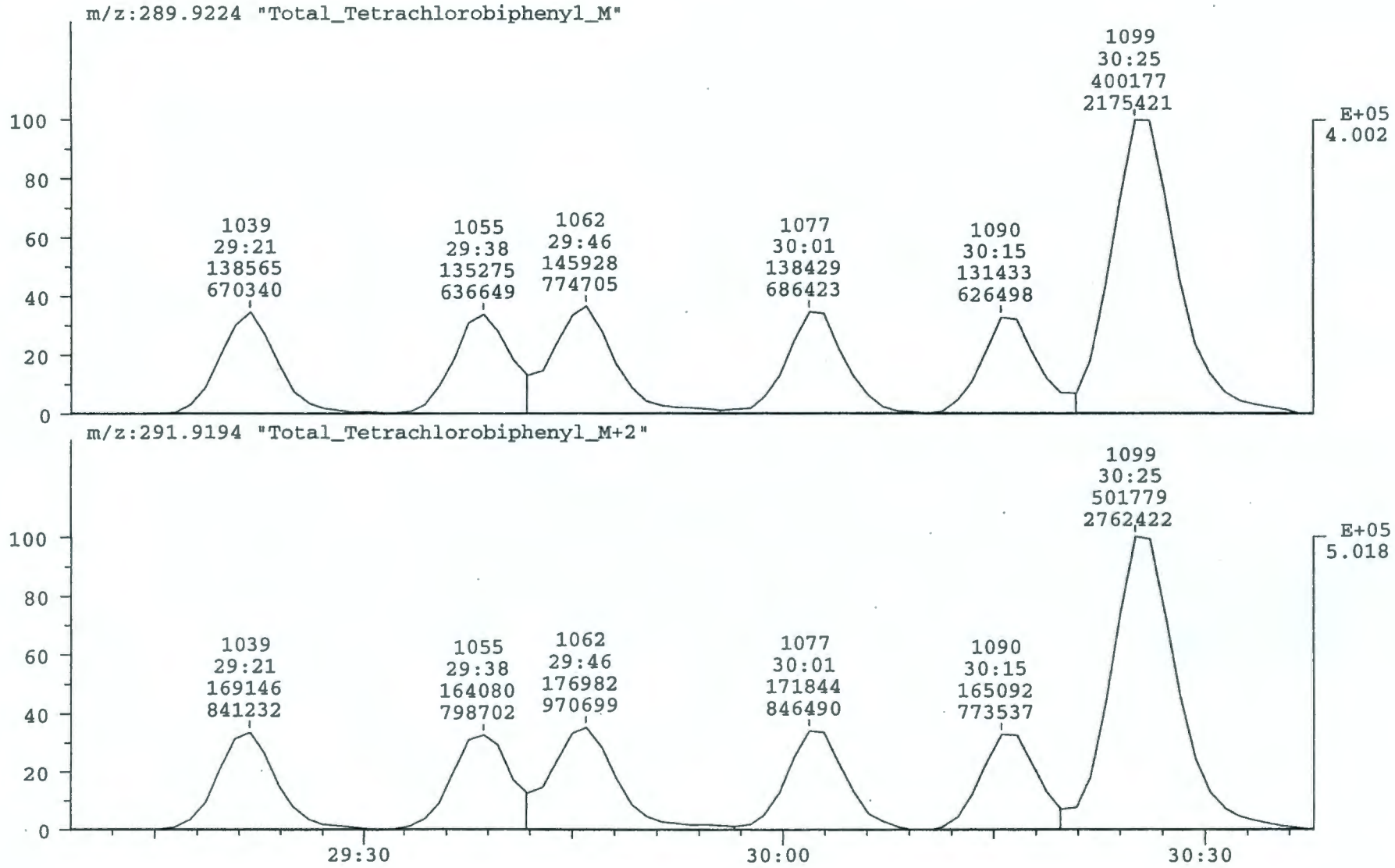
2271

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  29:53      1069
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1022 > 1106           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

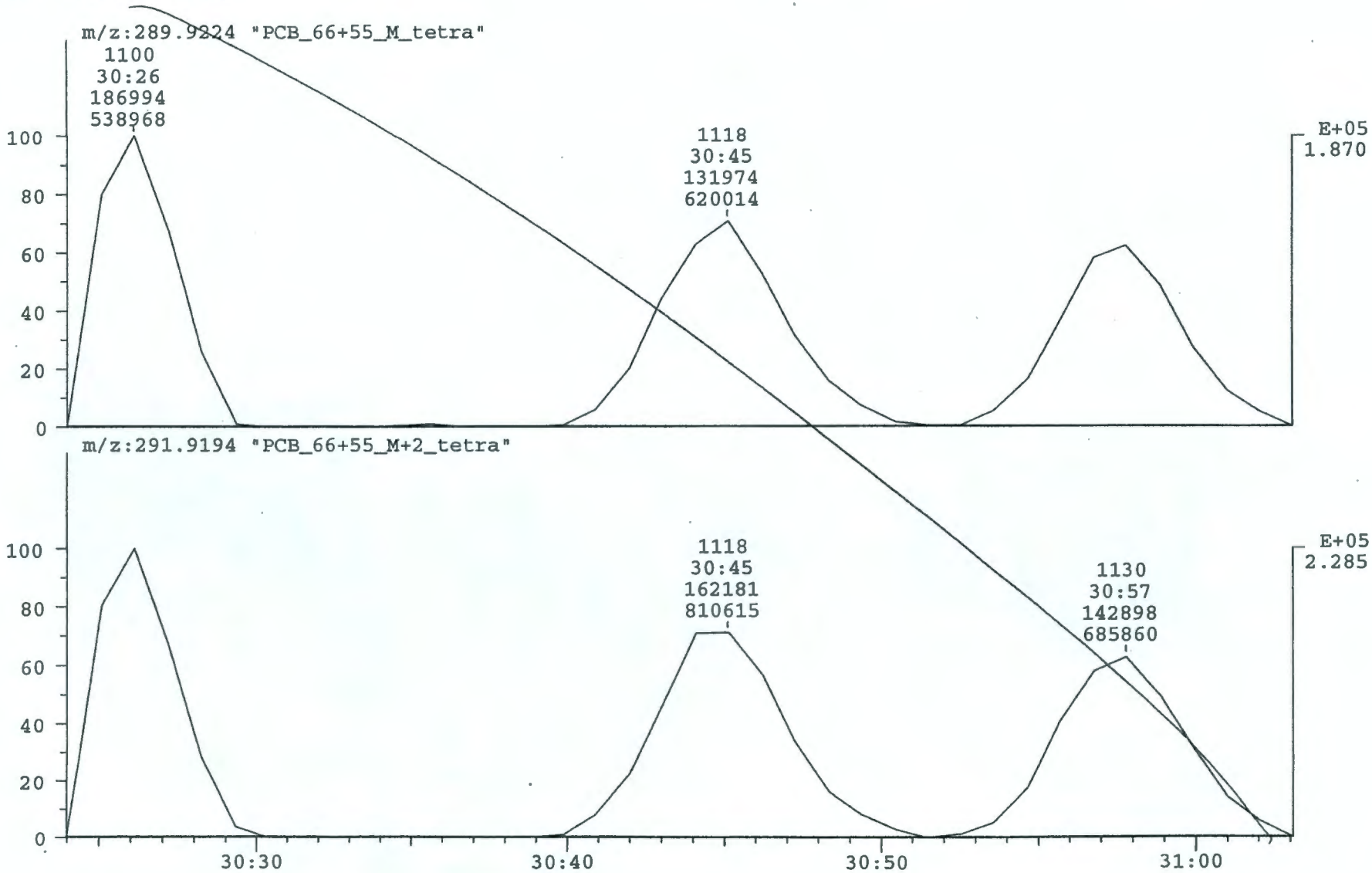


2272

```
CHRO:  a070927s2                                27-Sep-07   Elapse:  56:12      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1027 > 1111           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

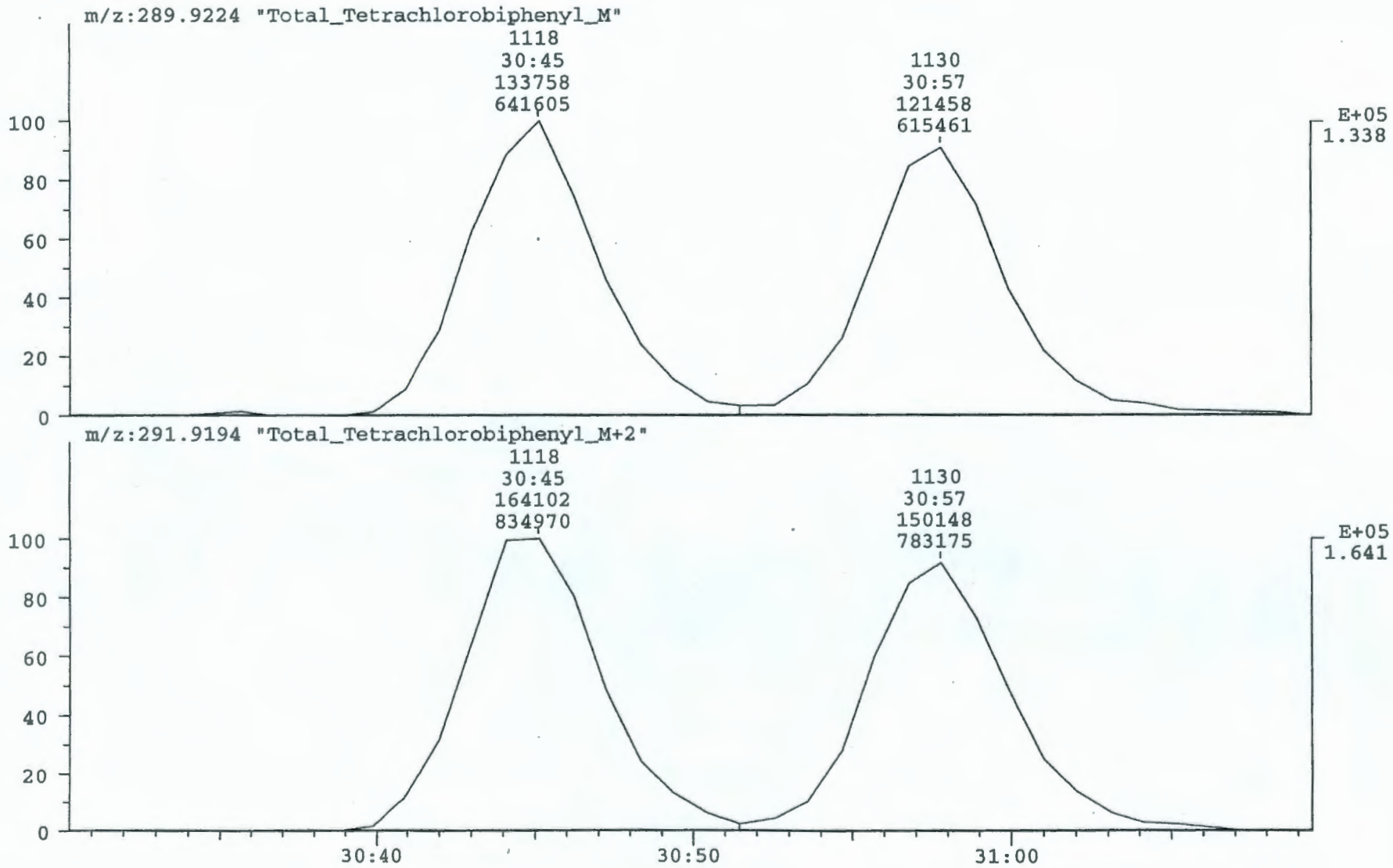


CHRO: a070927s2 27-Sep-07 Elapse: 30:50 1123
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1098 > 1135 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

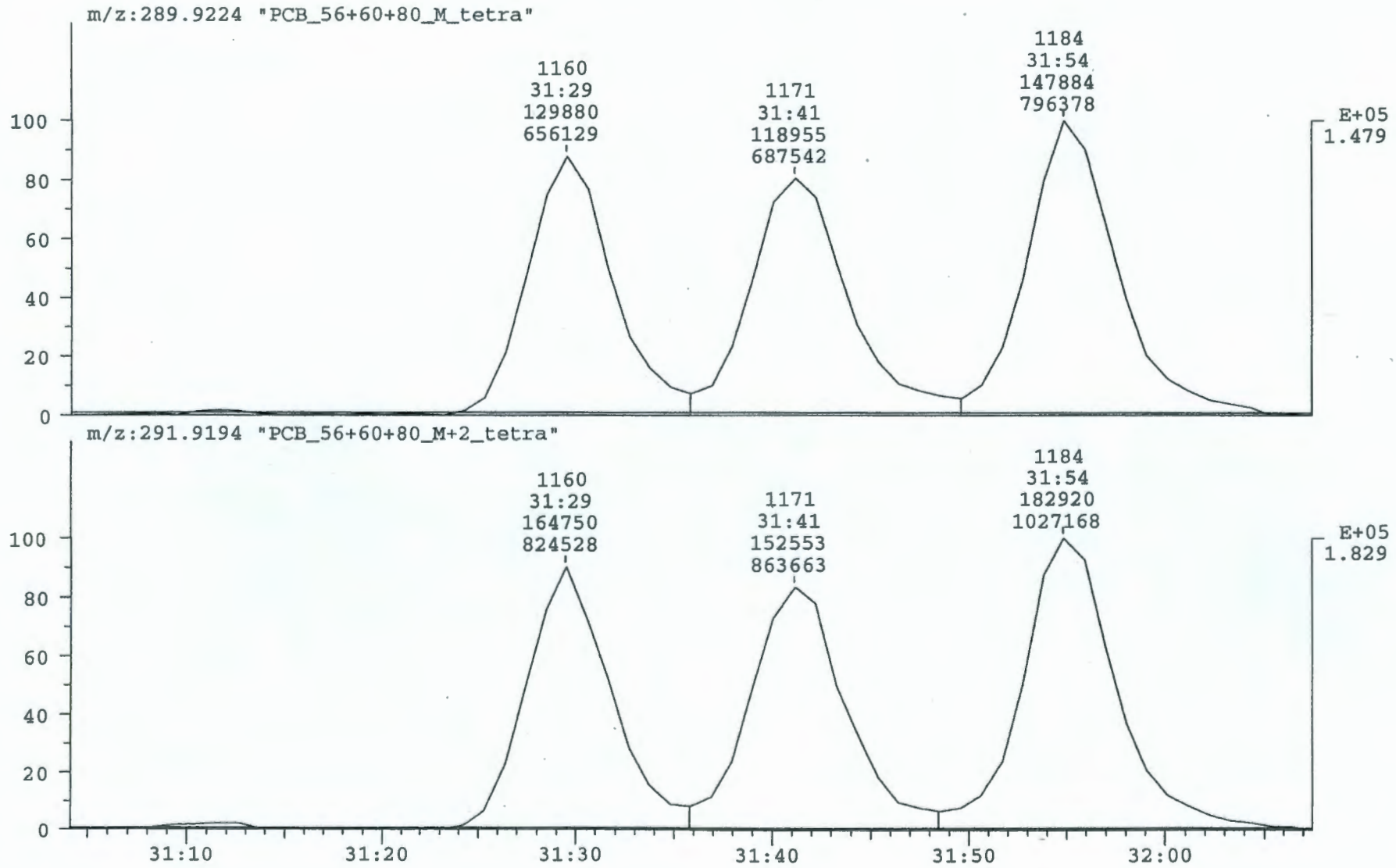


2274

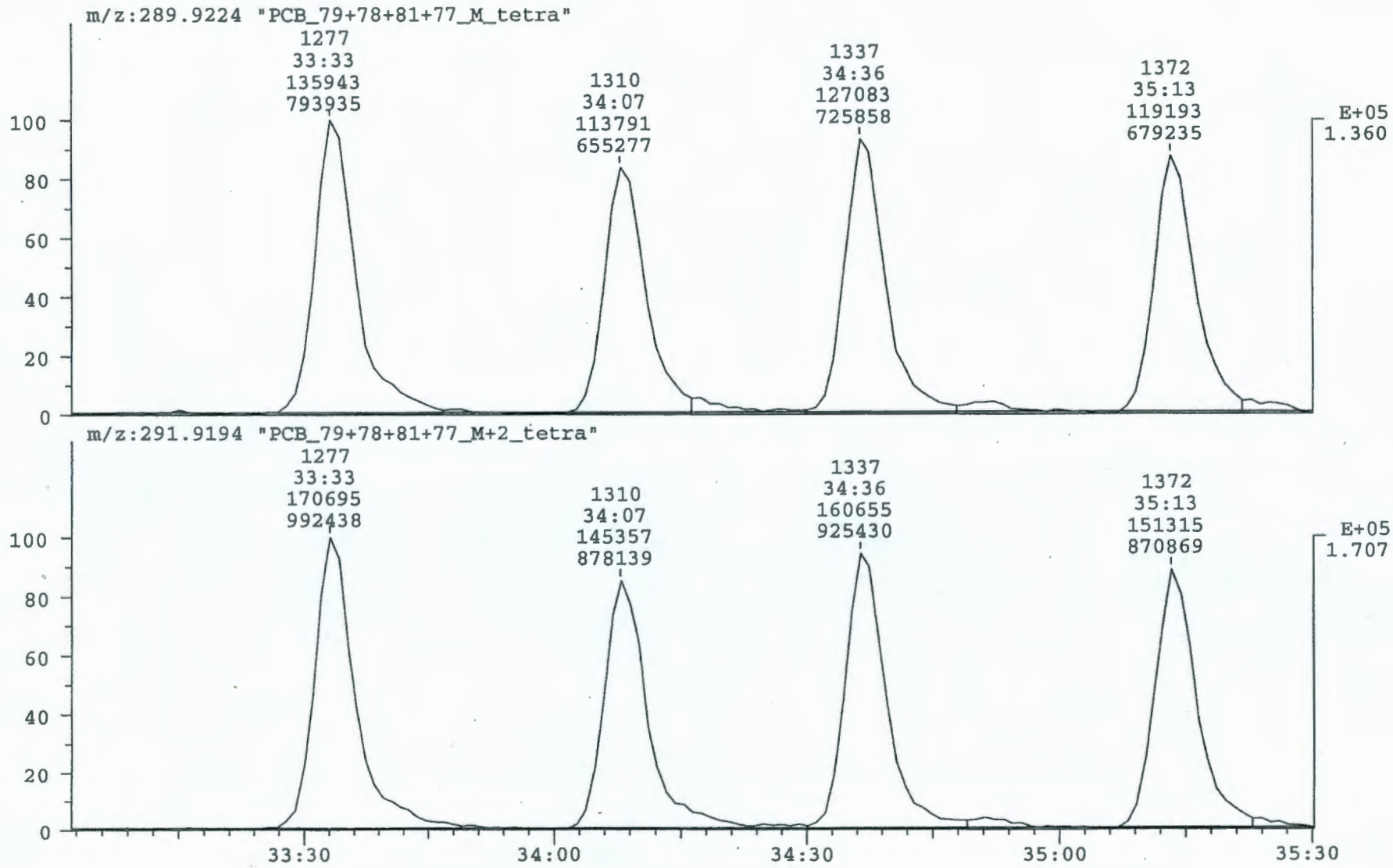
```
CHRO:  a070927s2                              27-Sep-07   Elapse:  56:12      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1104 > 1141          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



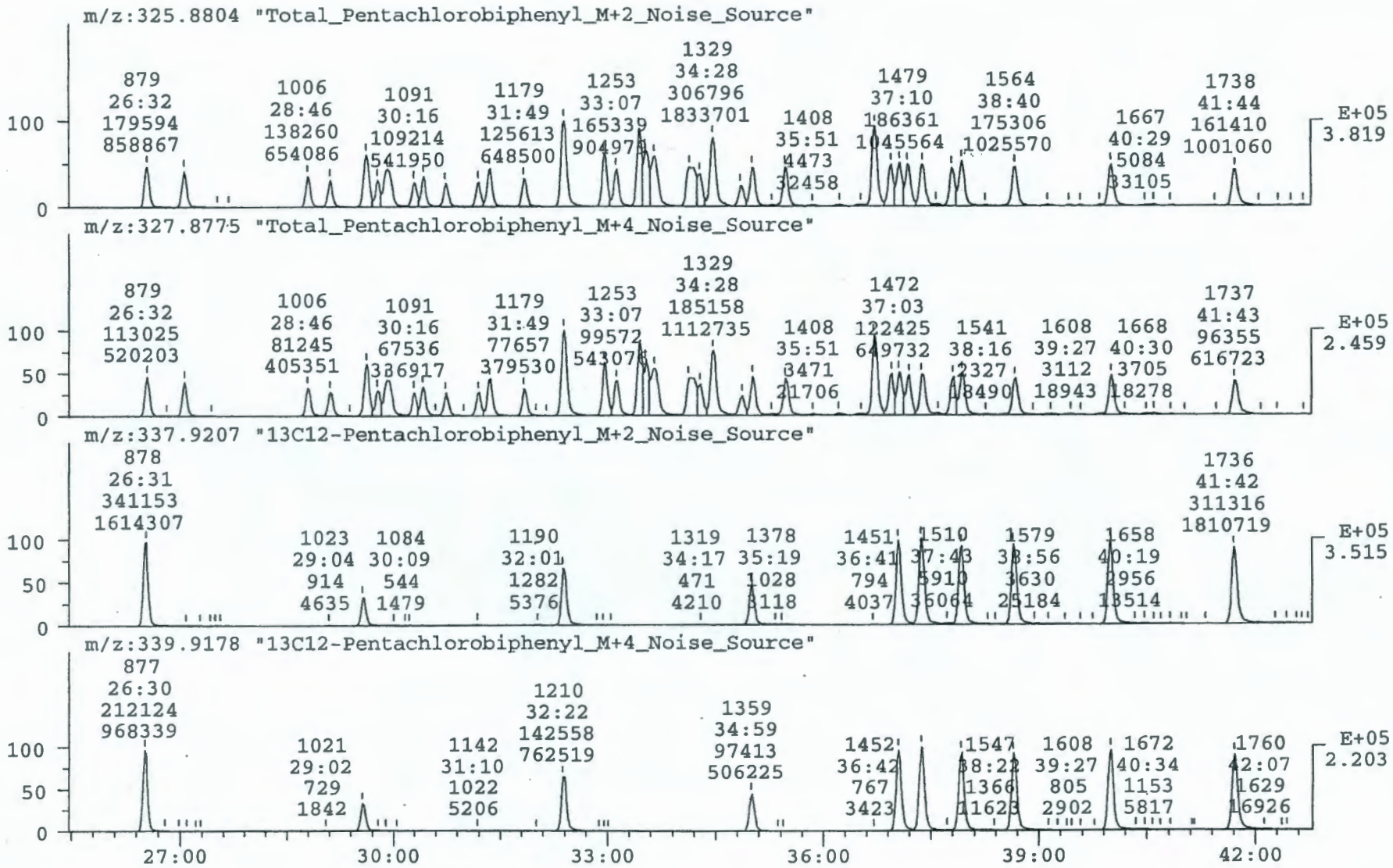
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  31:41      1171
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1136 > 1196          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



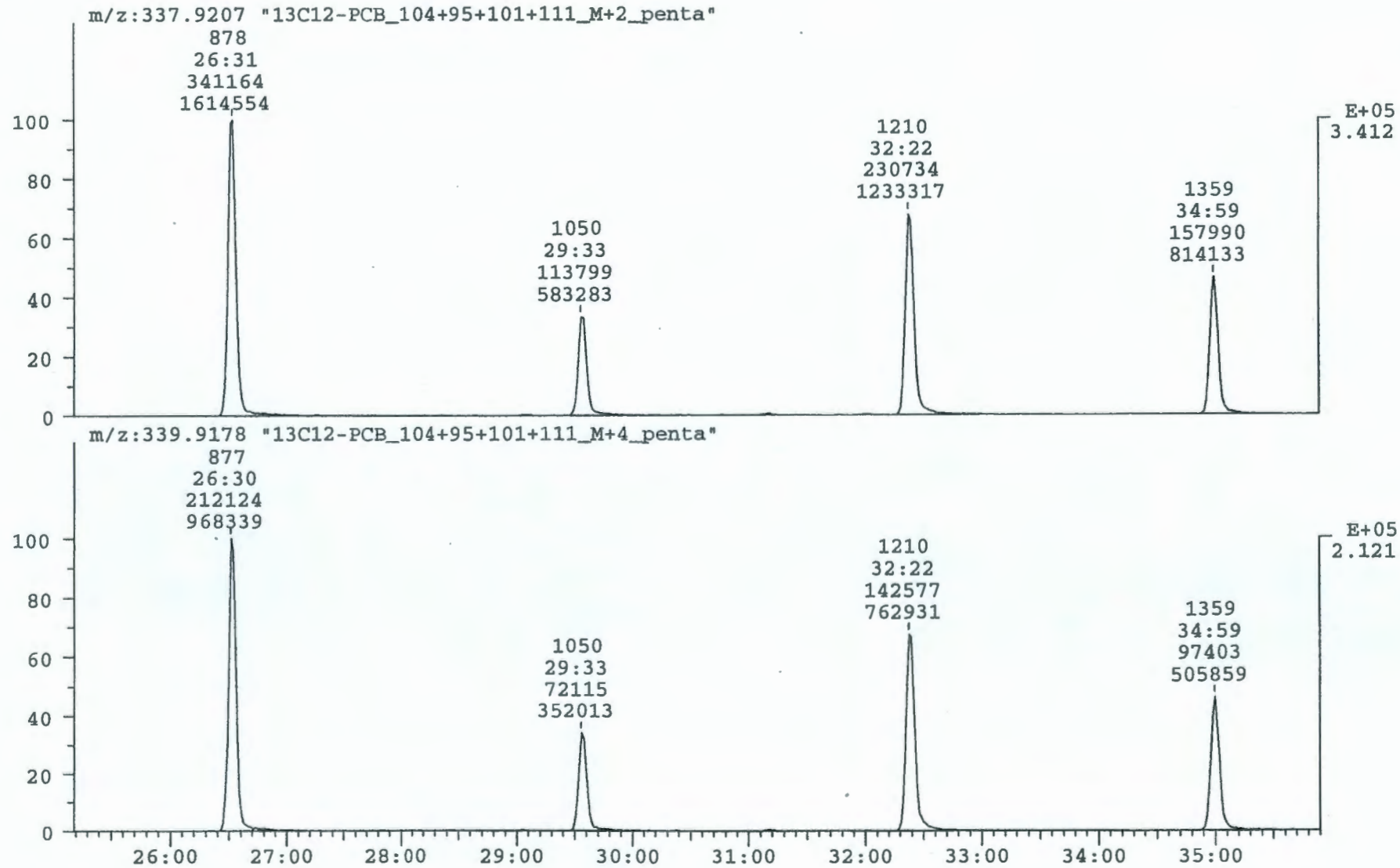
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  34:11      1313
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Cca1=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1248 > 1388           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



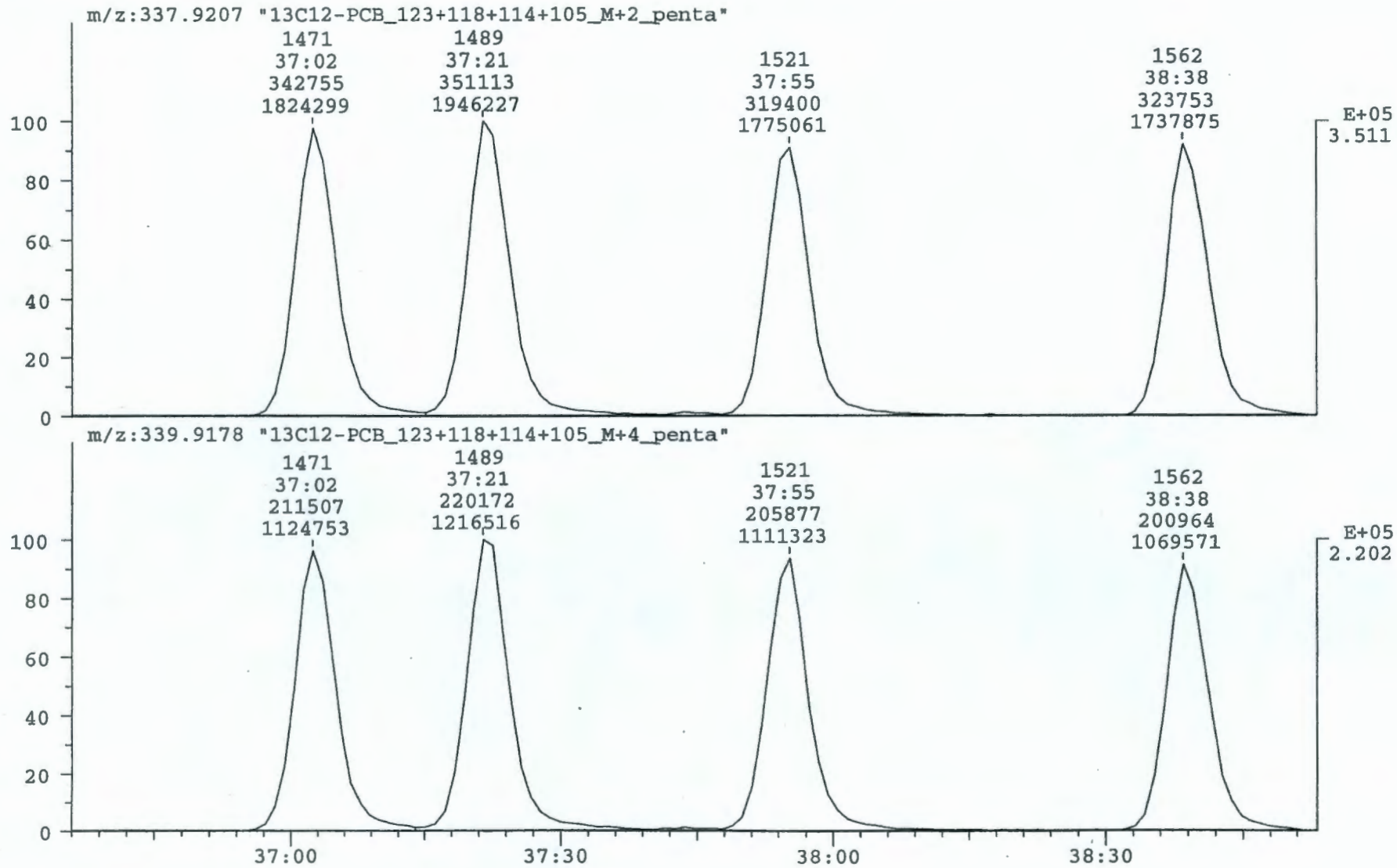
CHRO: a070927s2 27-Sep-07 Elapse: 34:07 1310
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 818 > 1798 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



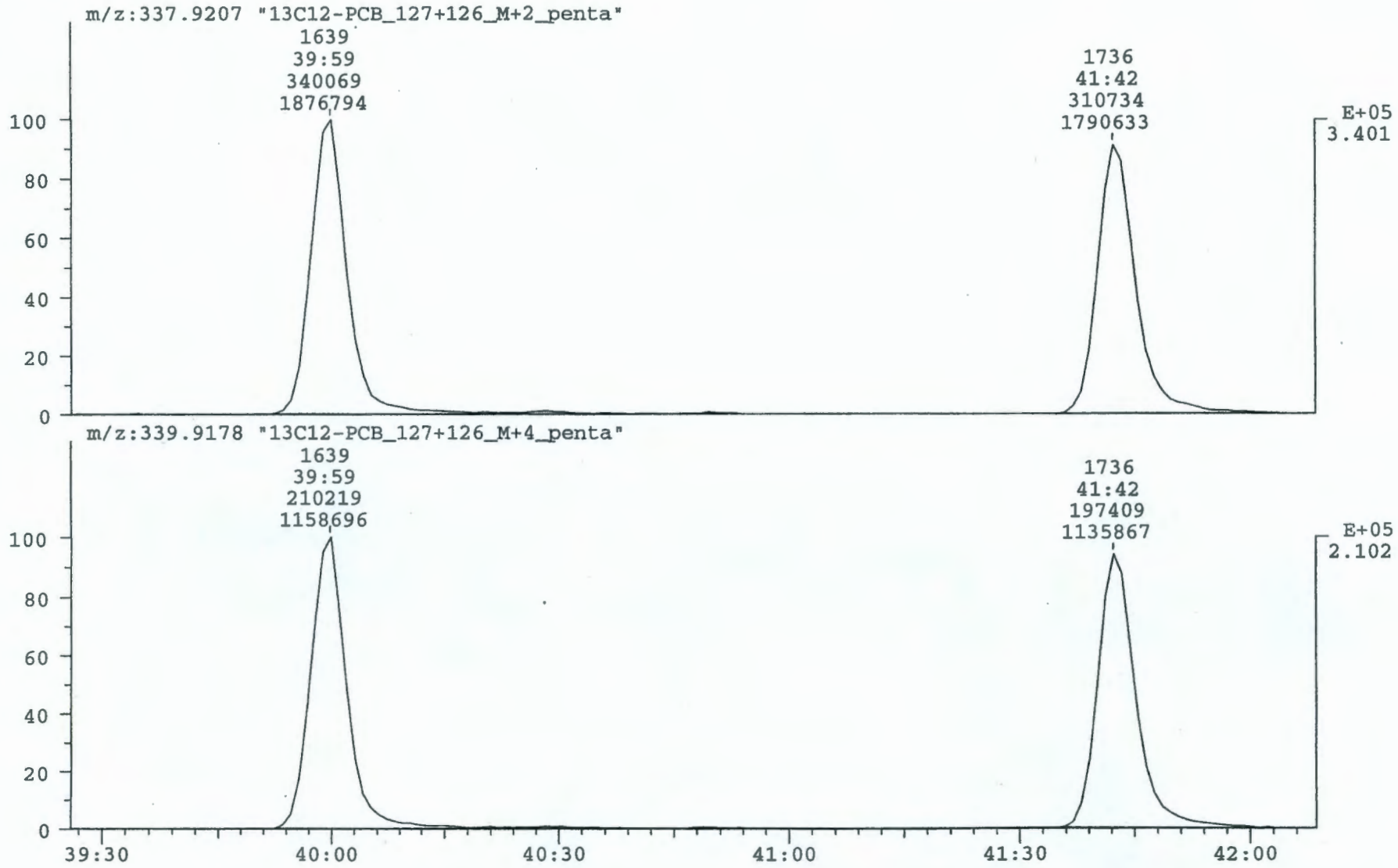
CHRO: a070927s2 27-Sep-07 Elapse: 30:32 1106
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 802 > 1410 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



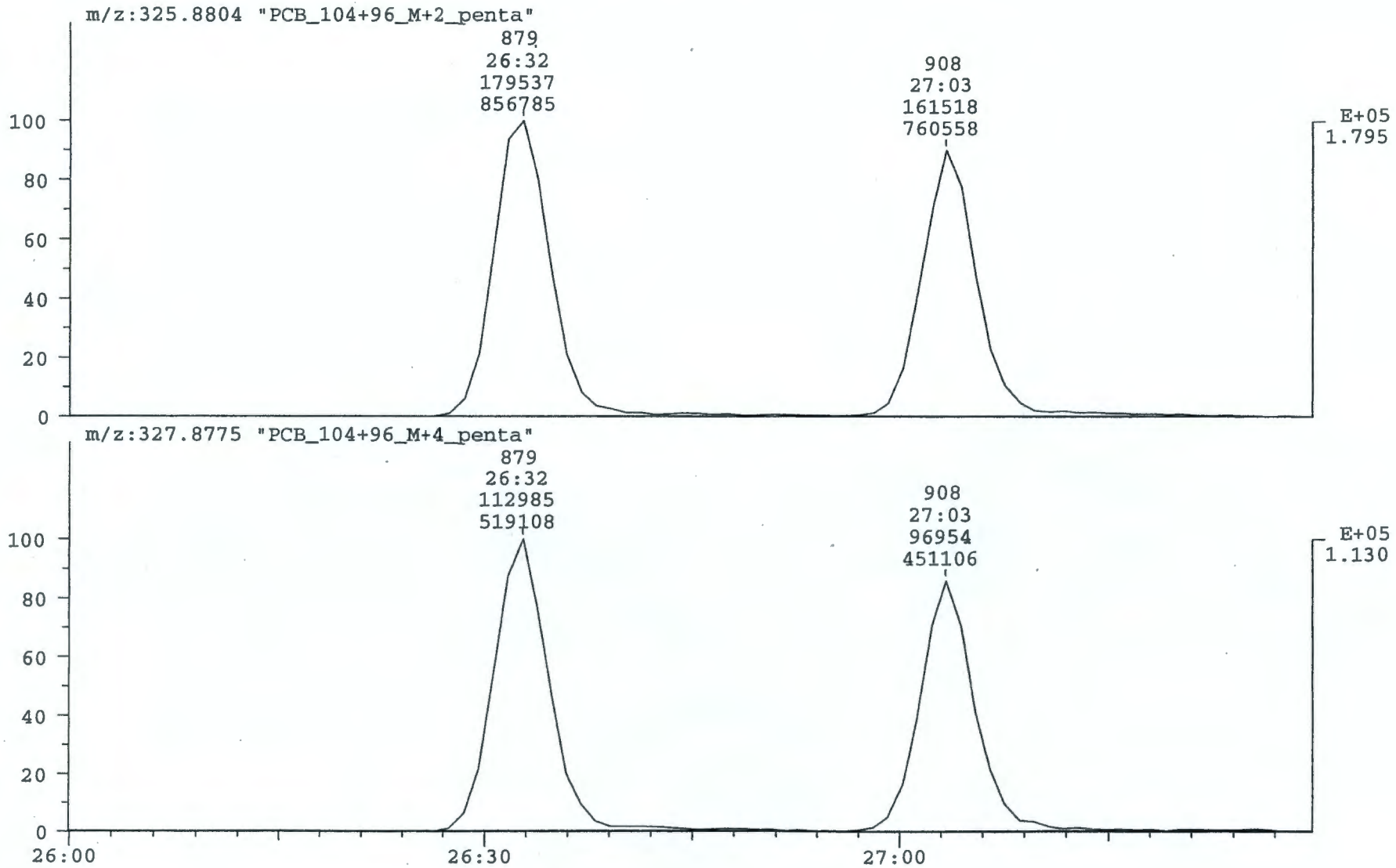
CHRO: a070927s2 27-Sep-07 Elapse: 37:49 1516
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1446 > 1576 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



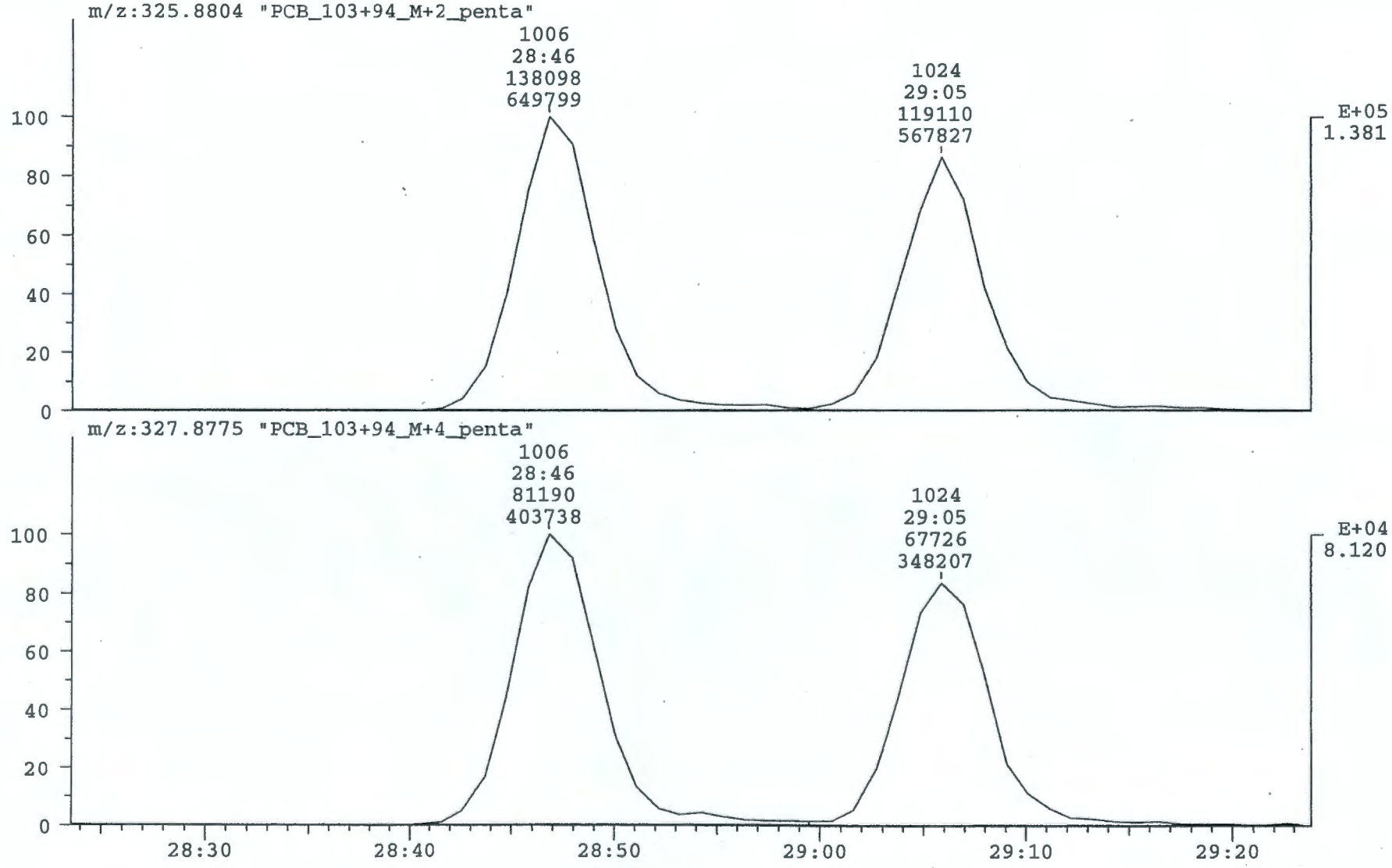
CHRO: a070927s2 27-Sep-07 Elapse: 40:50 1687
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1607 > 1761 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



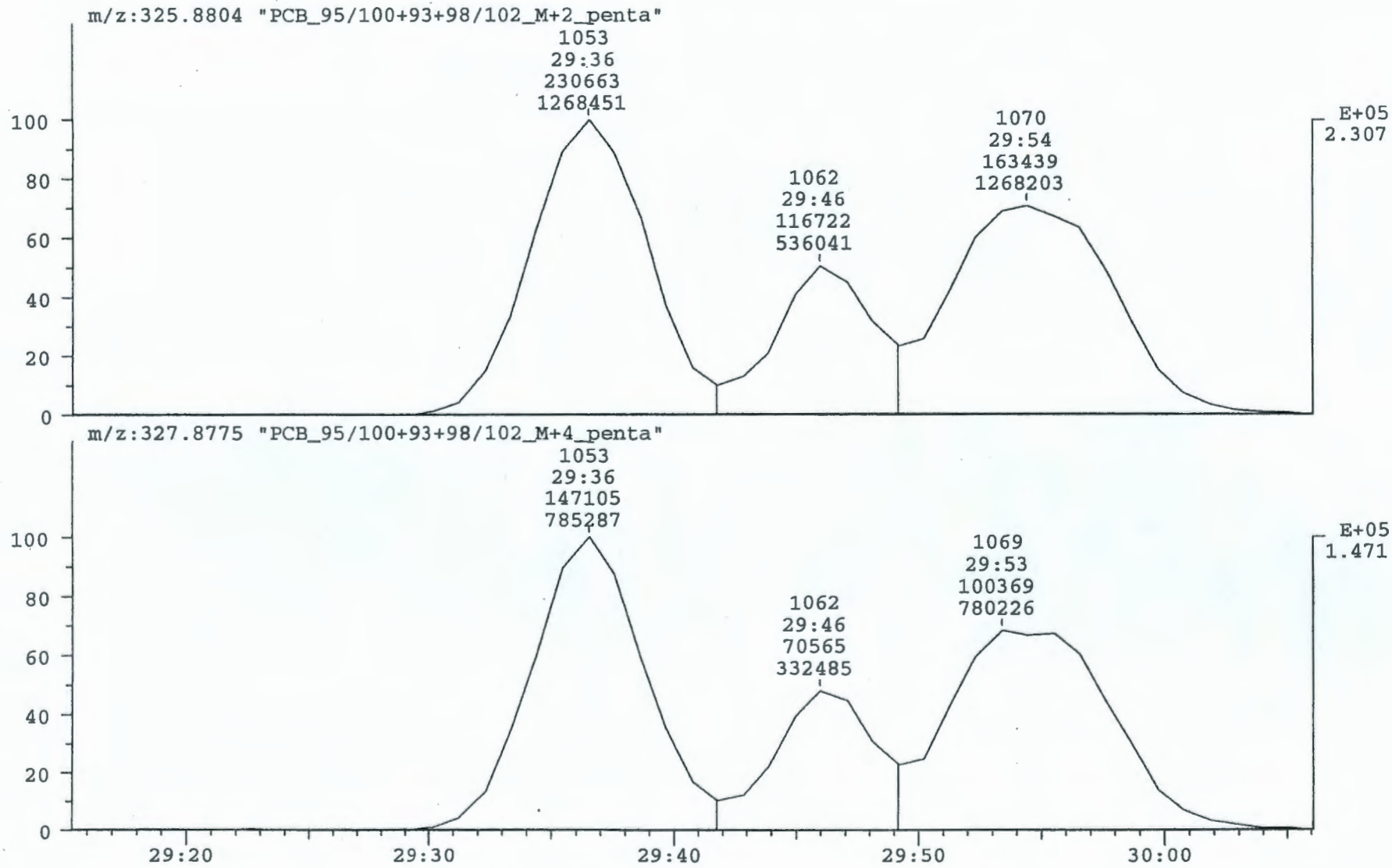
```
CHRO:  a070927s2                                27-Sep-07   Elapse:  26:47.5      893
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43    2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   848 > 933             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



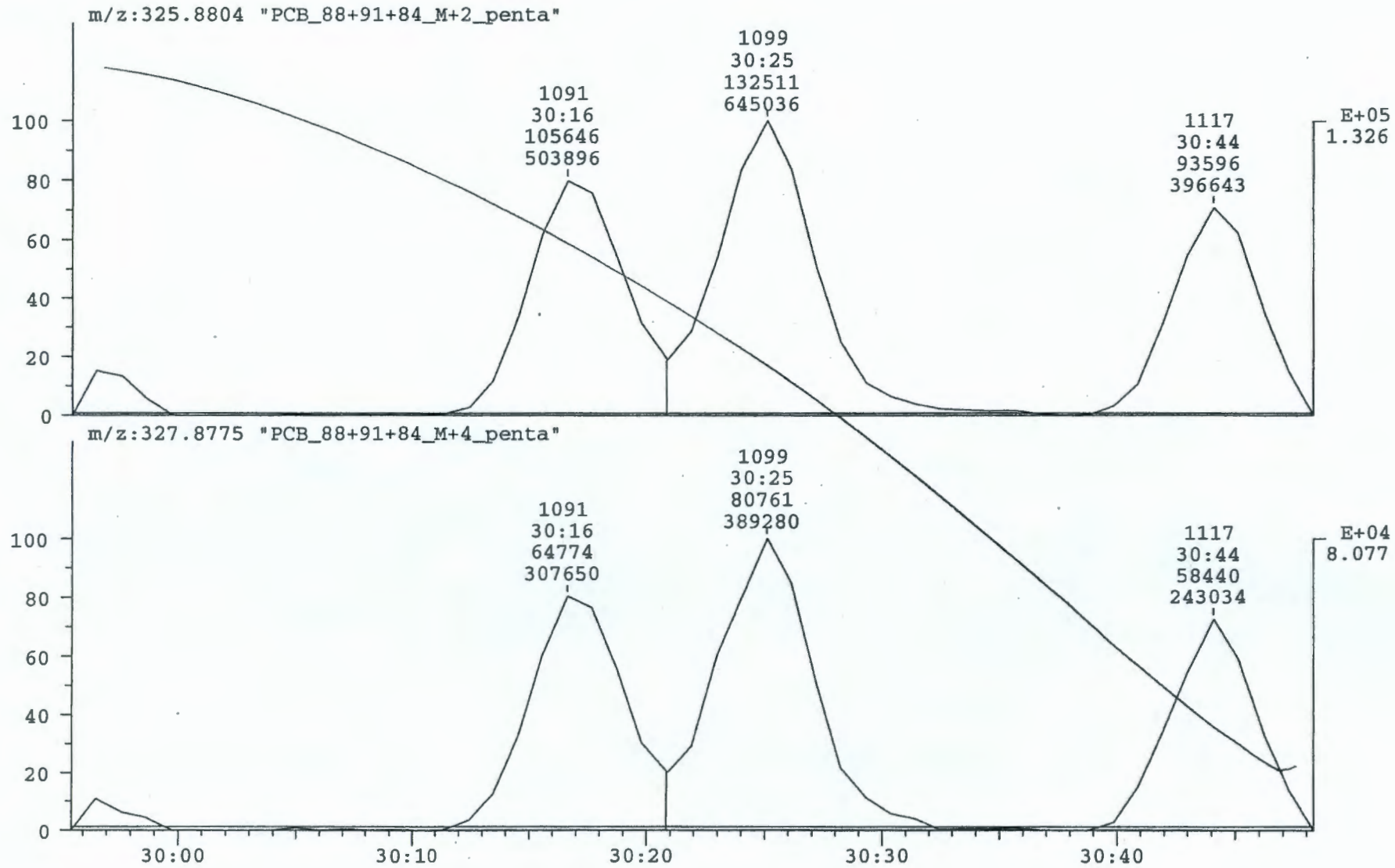
```
CHRO:  a070927s2                          27-Sep-07   Elapse:  28:58      1017
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1               Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville             Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   984 > 1041       Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  -3, 3.0
Disp:  Height  Area
```



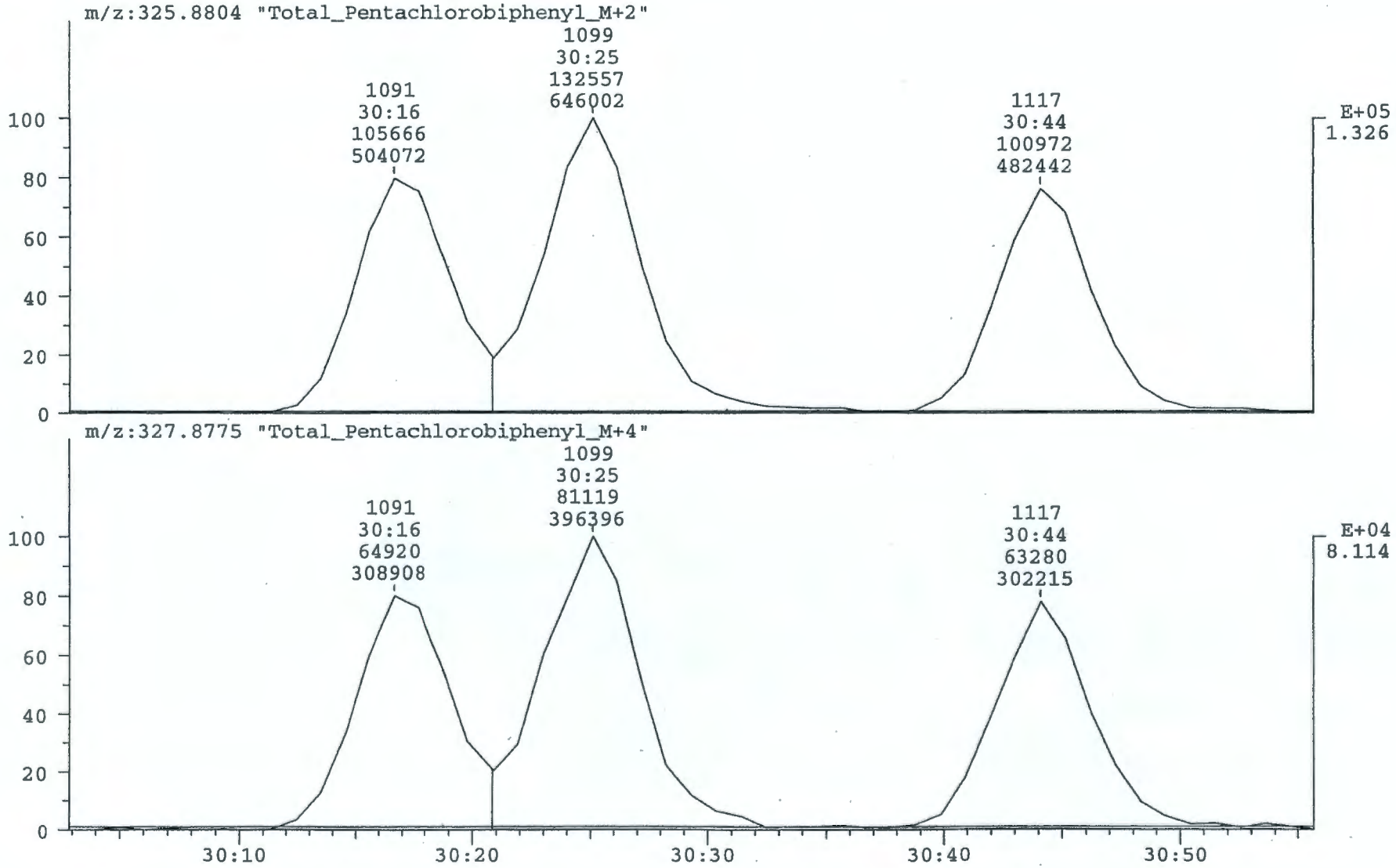
CHRO: a070927s2 27-Sep-07 Elapse: 29:43 1060
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1033 > 1081 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 4 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a070927s2                                27-Sep-07  Elapse:  30:30      1104
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1071 > 1121          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2               Label :  -3, 3.0
Disp:  Height  Area
```

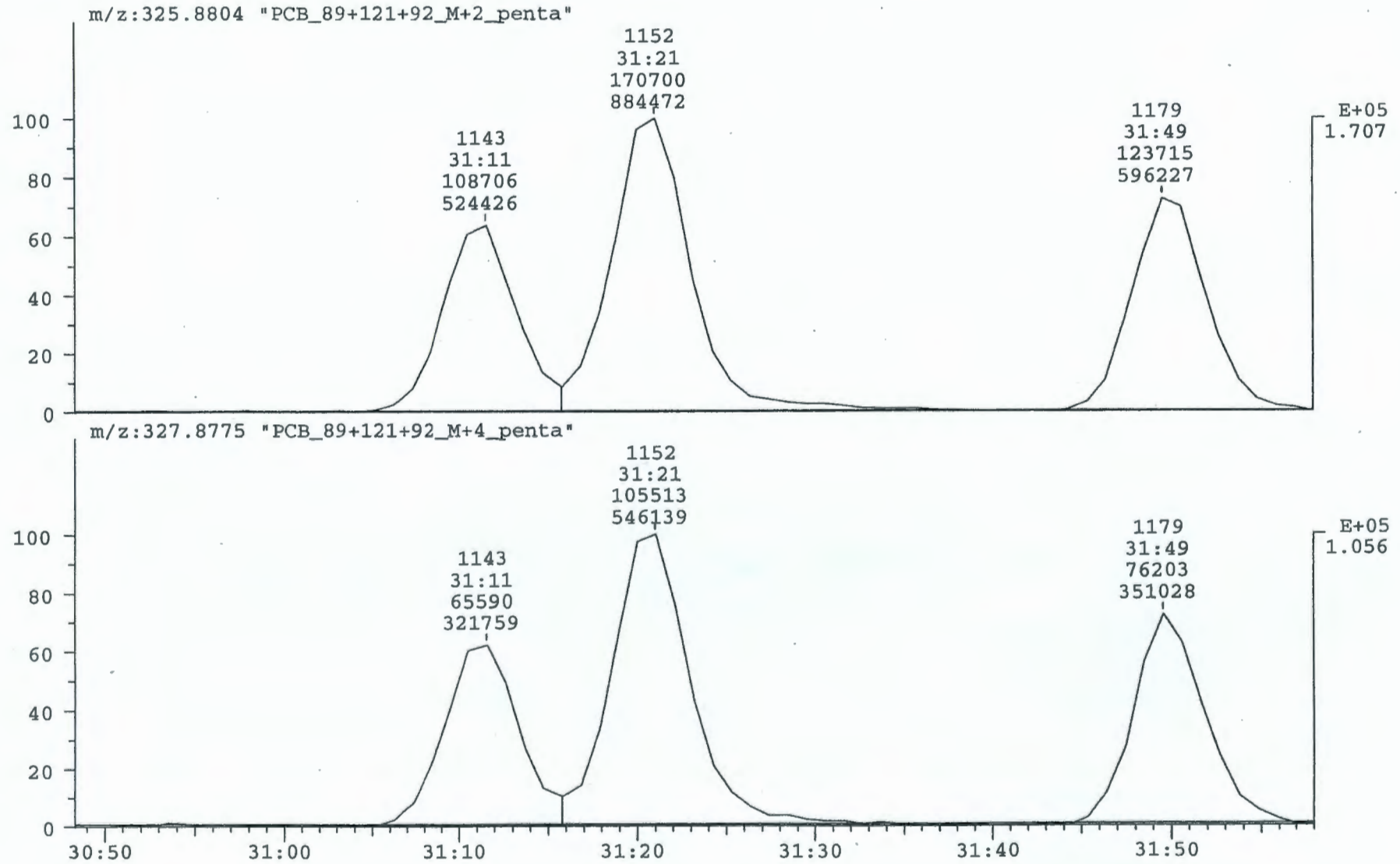


CHRO: a070927s2 27-Sep-07 Elapse: 56:12 2556
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1078 > 1128 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

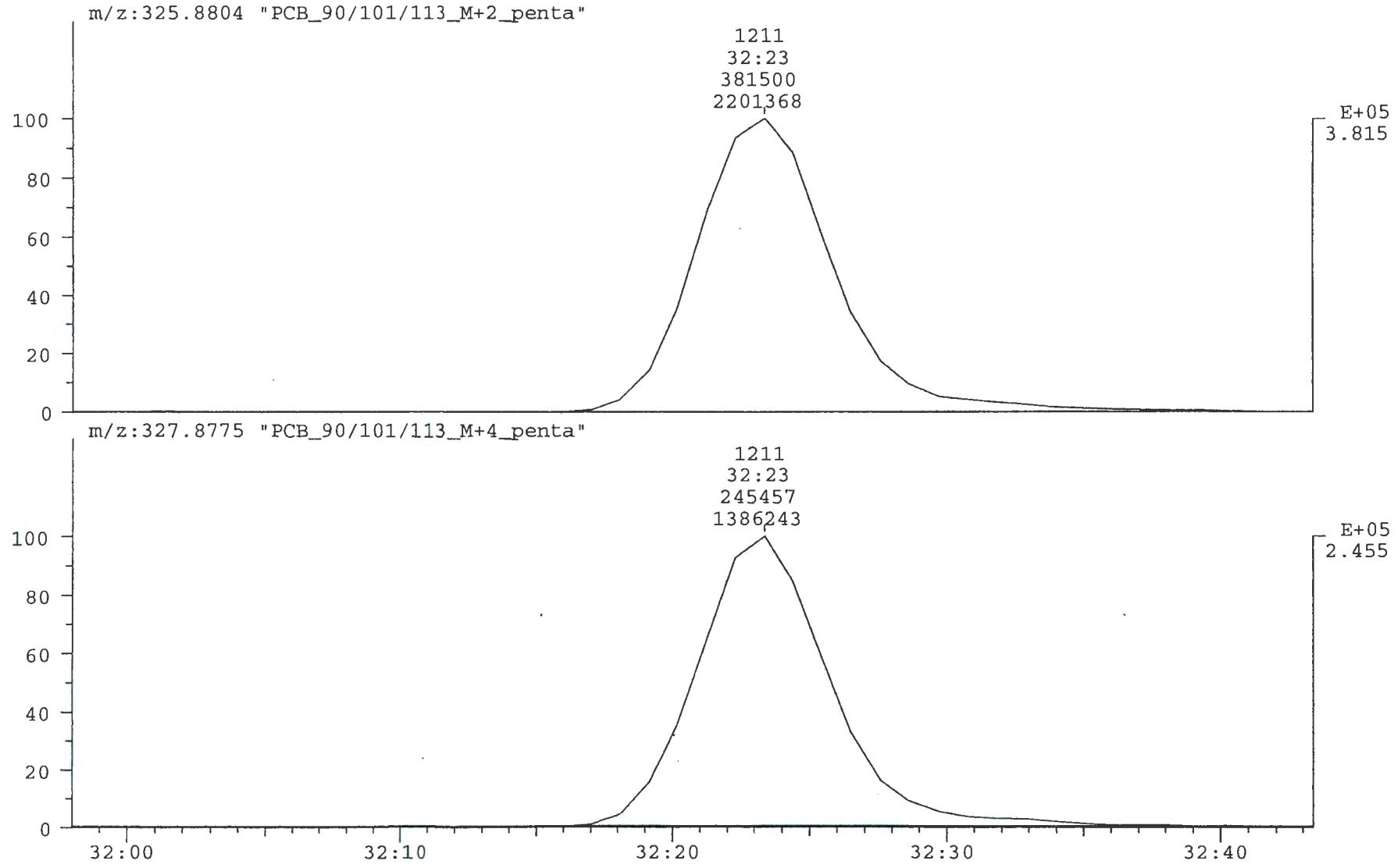


2286

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  31:30      1161
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1121 > 1187          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

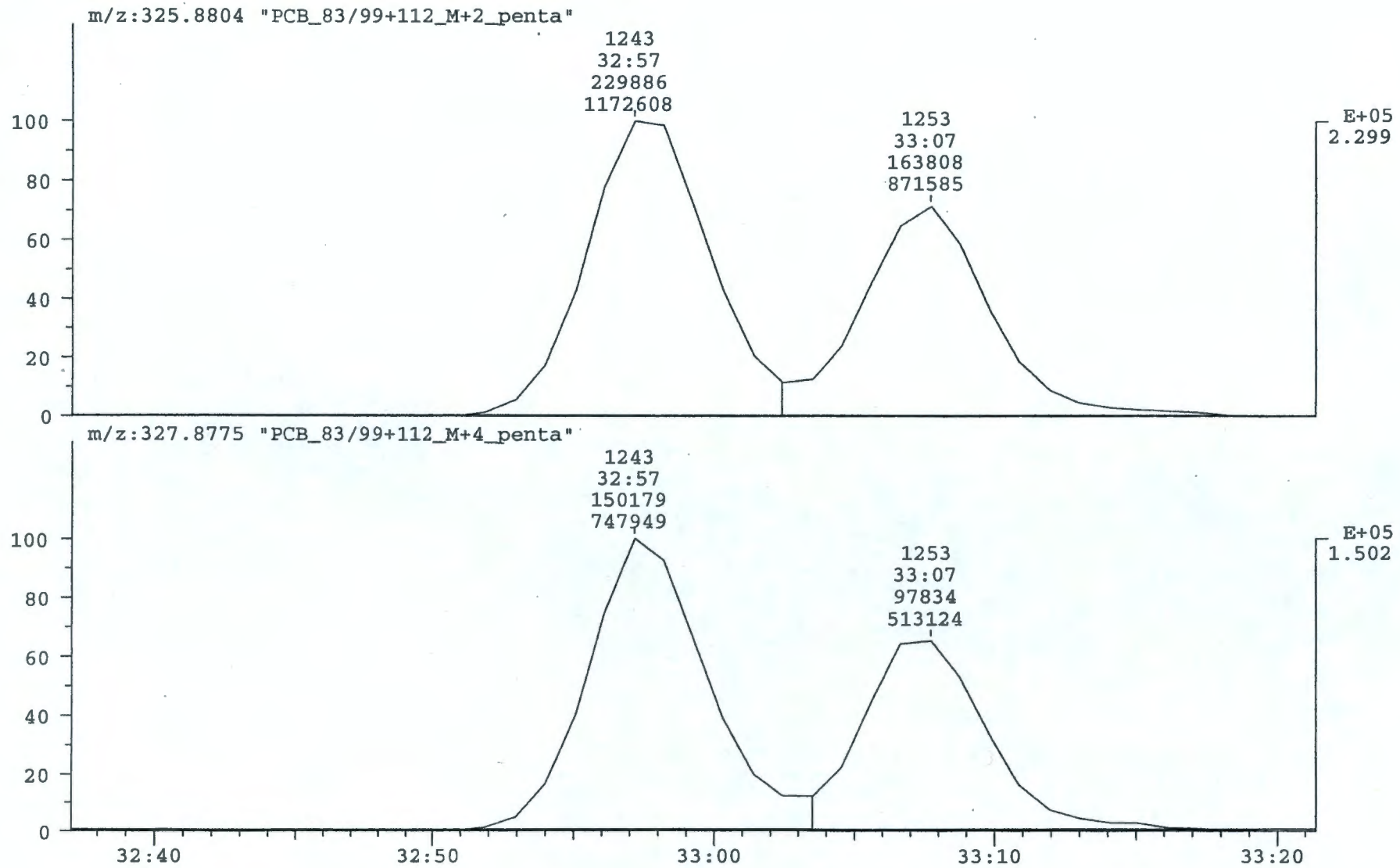


```
CHRO:  a070927s2                          27-Sep-07   Elapse:  32:22      1210
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1               Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville             Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1187 > 1230      Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  -3, 3.0
Disp:  Height  Area
```



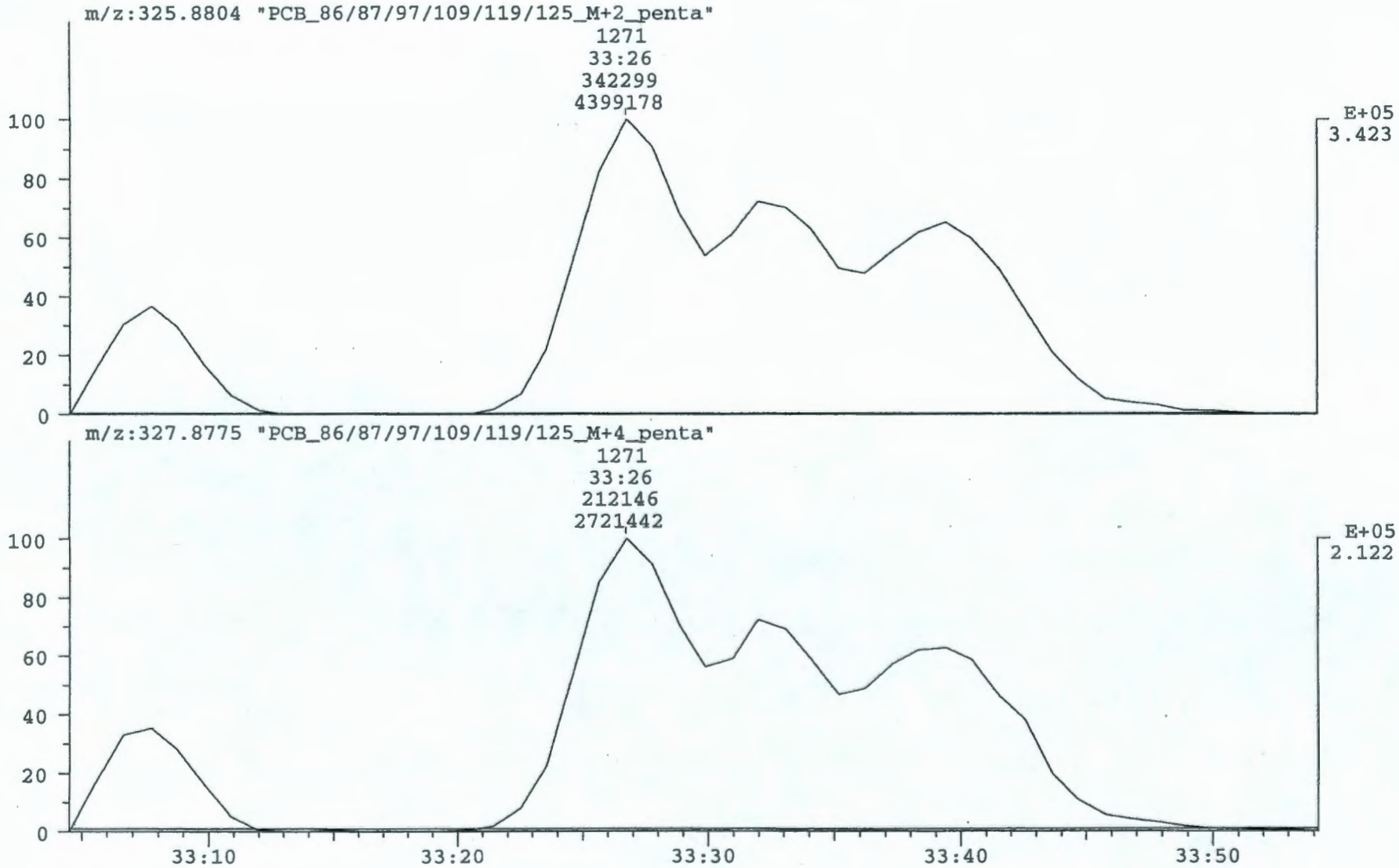
2288

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  33:03      1249
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1224 > 1266          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



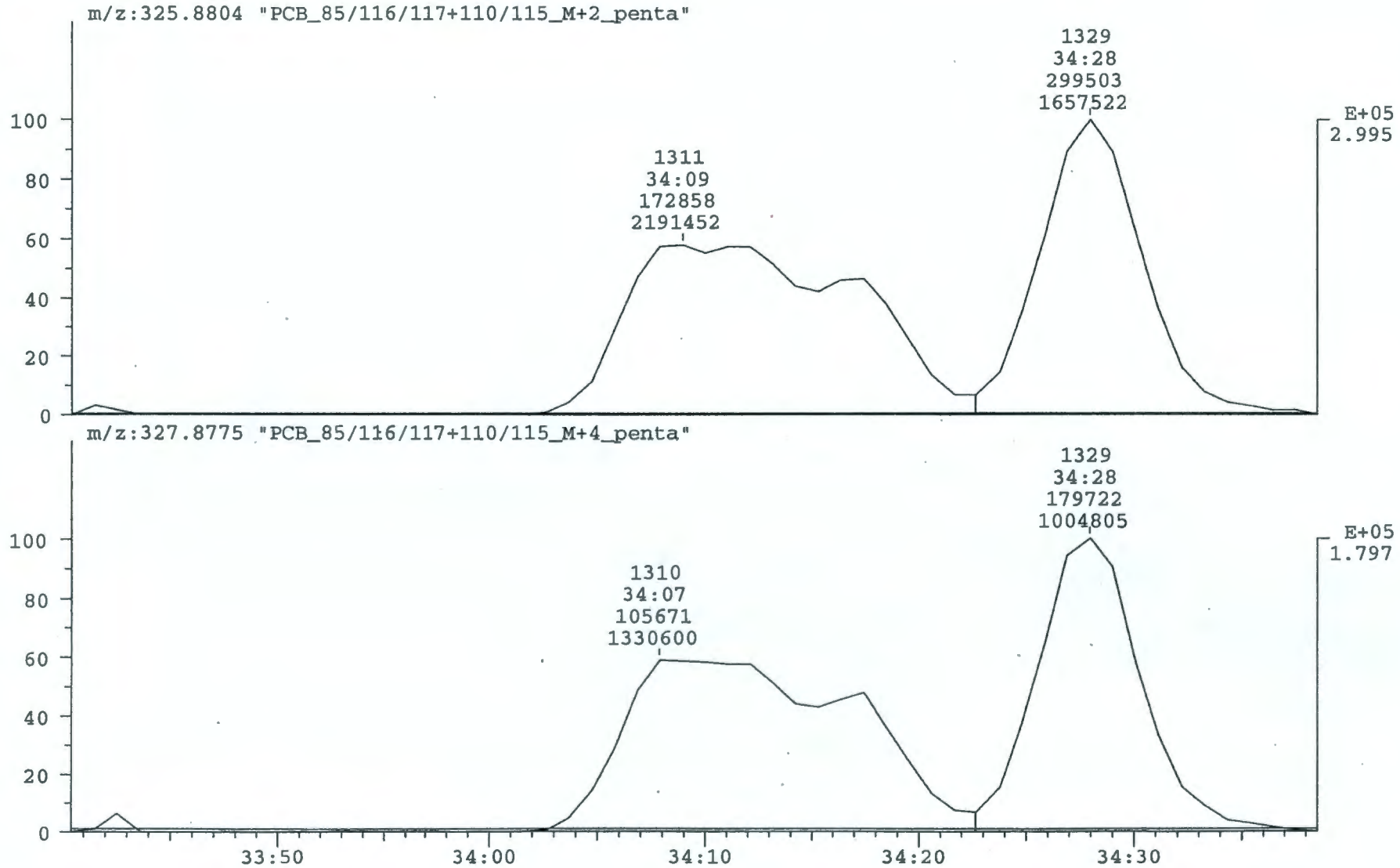
2289

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  33:36      1280
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1250 > 1297           Masses:  181 > 510
Area:  5, 0.50, 0      Baseline  :   100, 12               Label :  -3, 3.0
Disp:  Height  Area
```

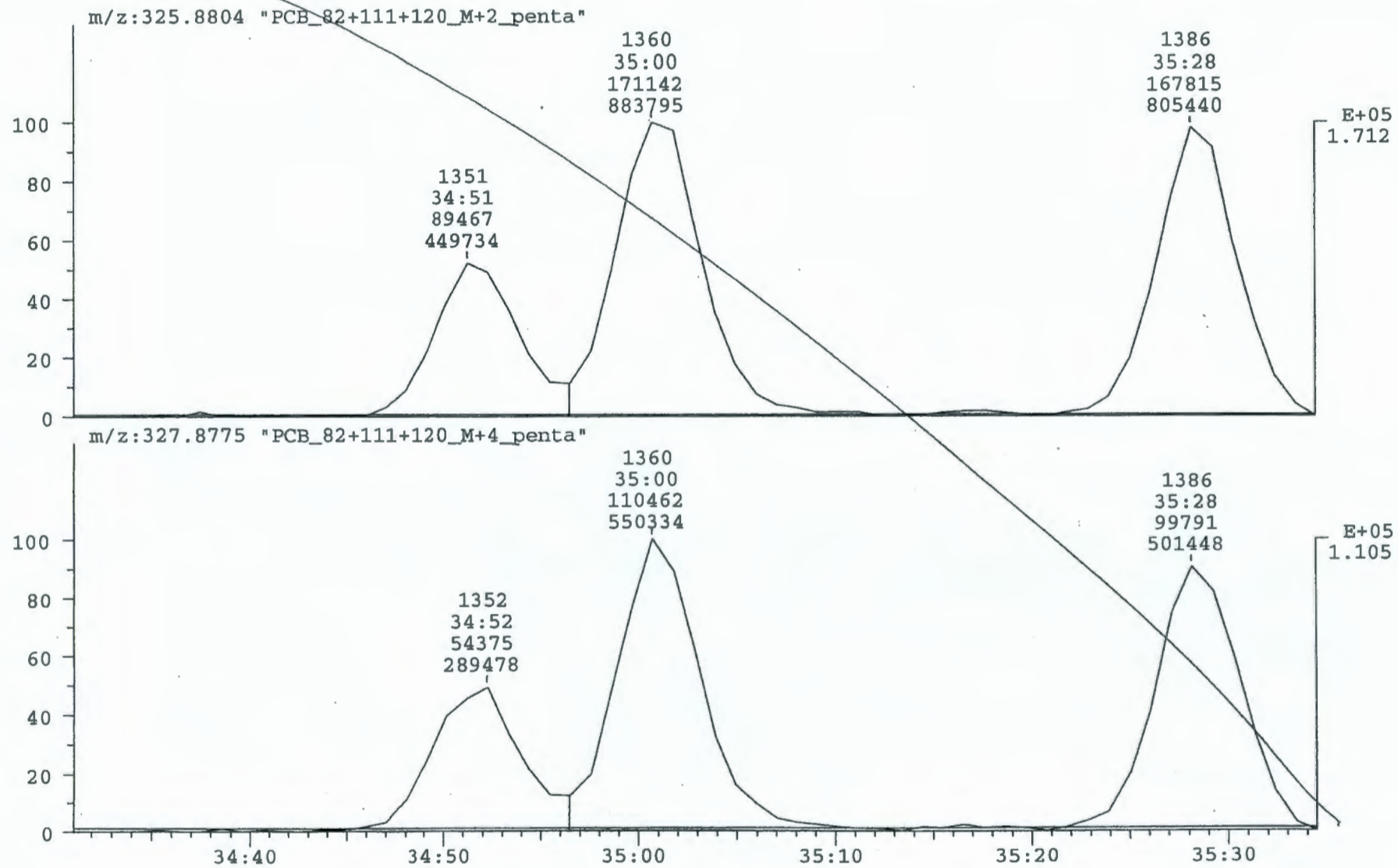


2290

```
CHRO:  a070927s2                                27-Sep-07   Elapse:  34:22      1324
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1284 > 1339           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 6                Label :  -3, 3.0
Disp:  Height  Area
```

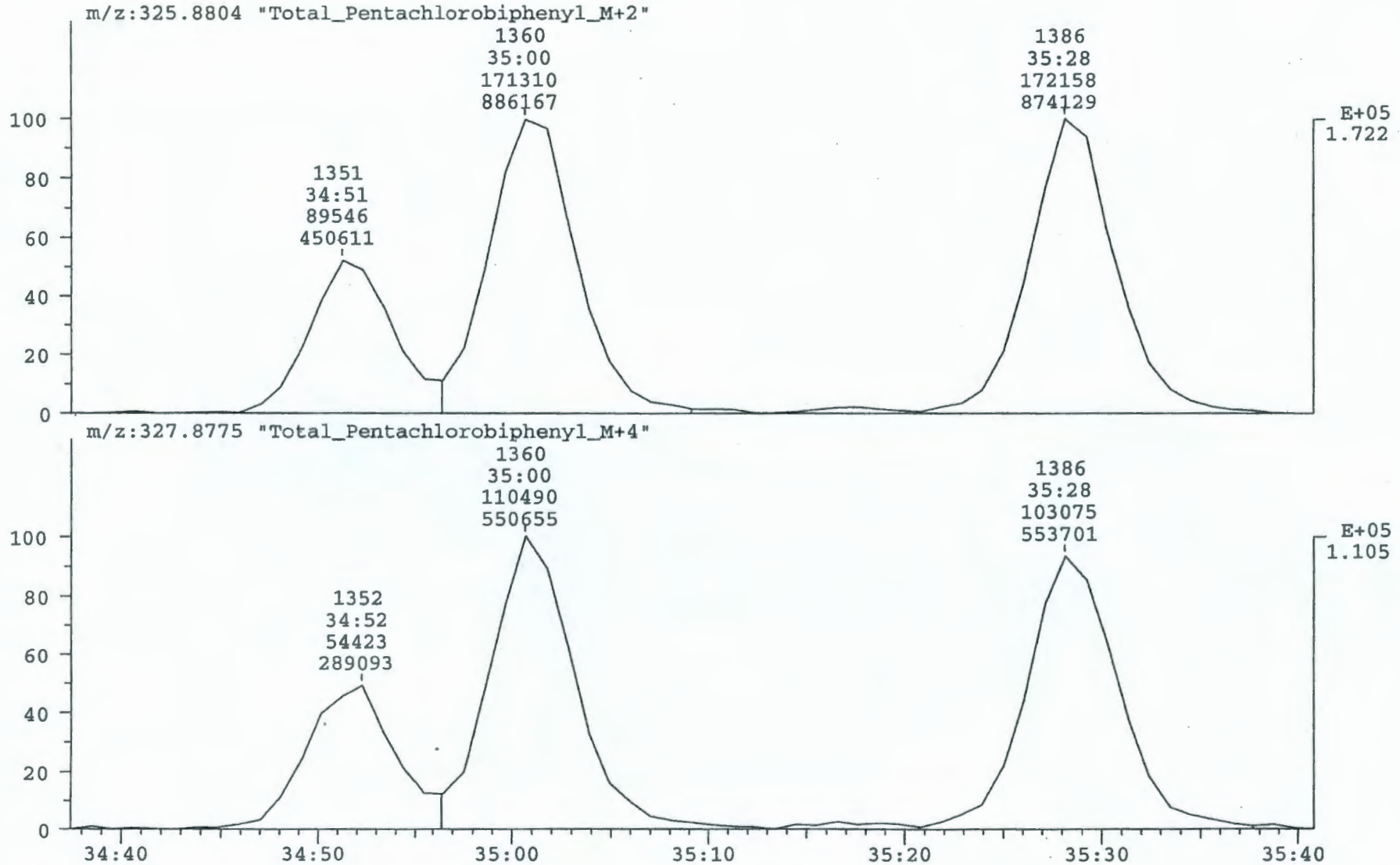


CHRO: a070927s2 27-Sep-07 Elapse: 34:52 1352
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1332 > 1392 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area

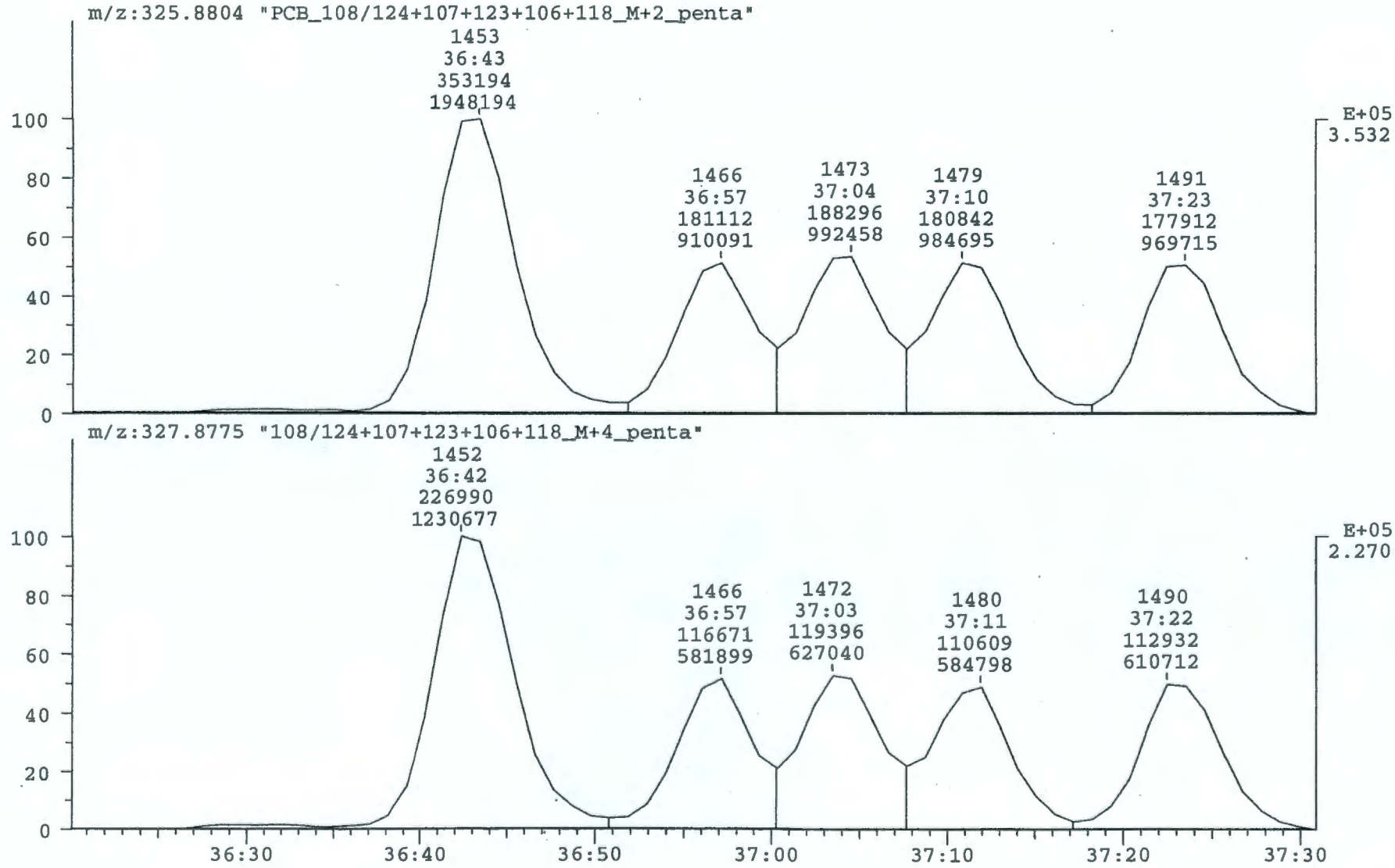


2292

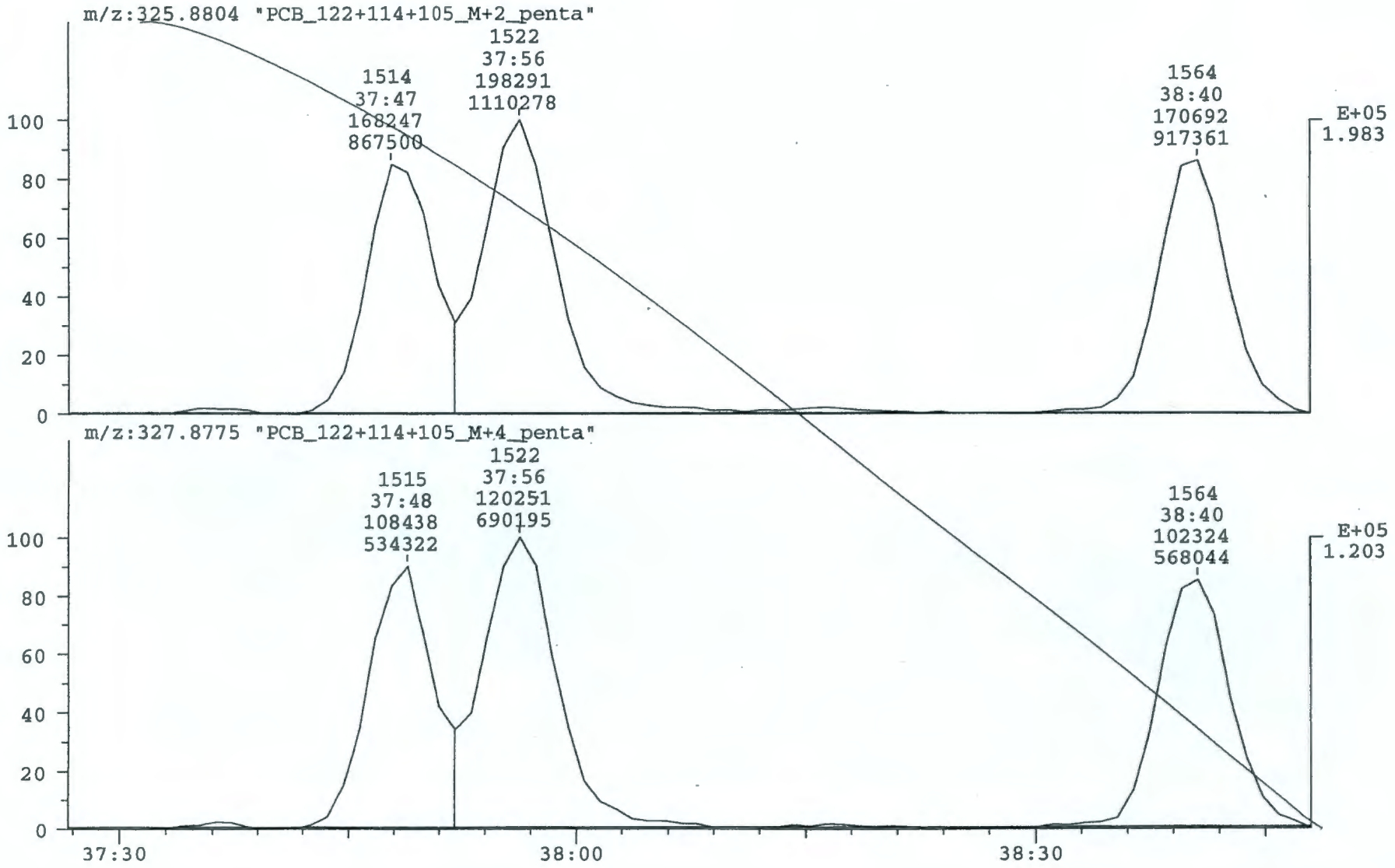
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  56:12      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1338 > 1398          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1               Label :  3, 3.0
Disp:  Height  Area
```



```
CHRO:  a070927s2                              27-Sep-07  Elapse:  37:07      1476
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                  Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1431 > 1498         Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

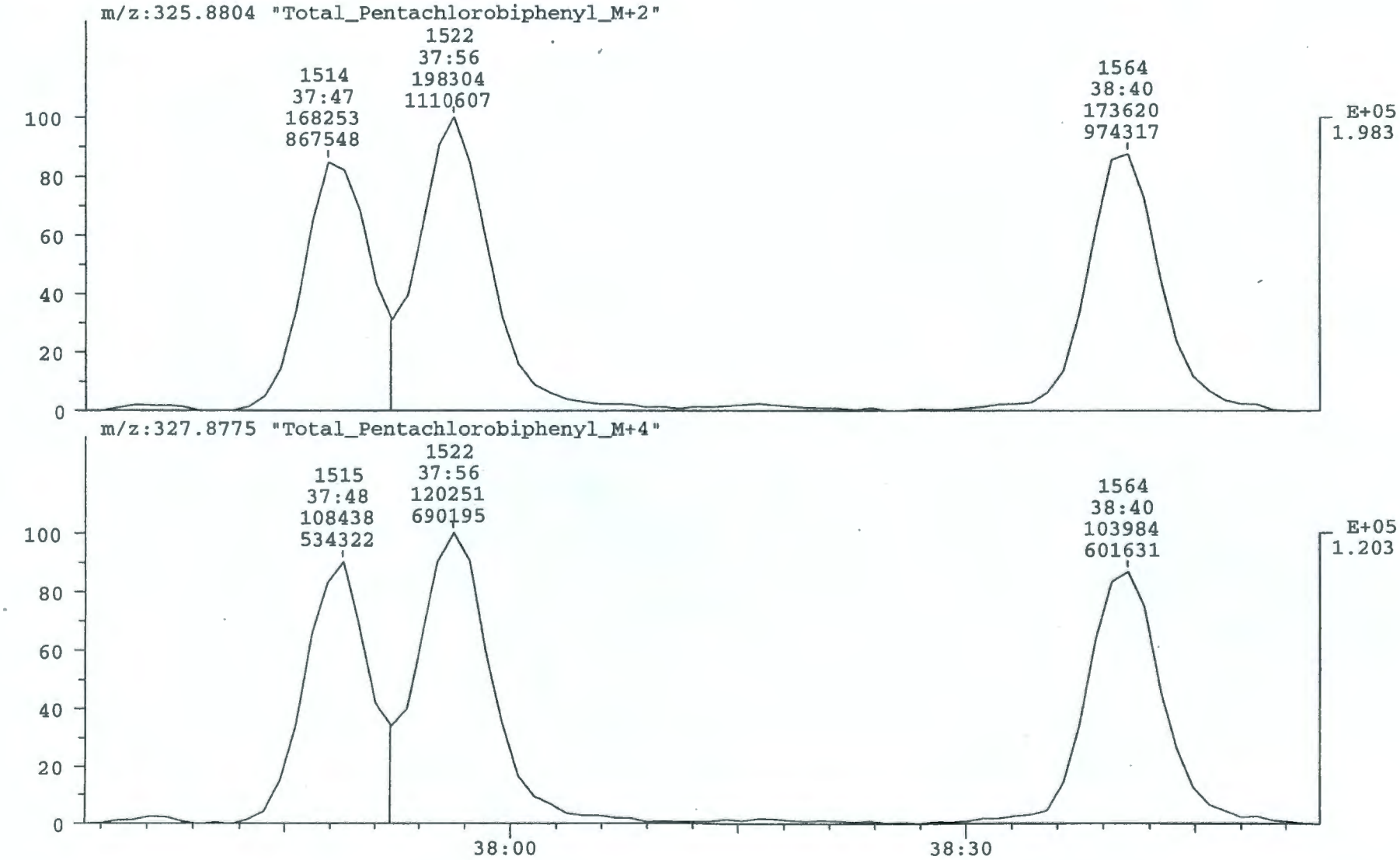


```
CHRO:  a070927s2                                27-Sep-07  Elapse:  38:14      1539
Samp:  Vial 1.WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1494 > 1571          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

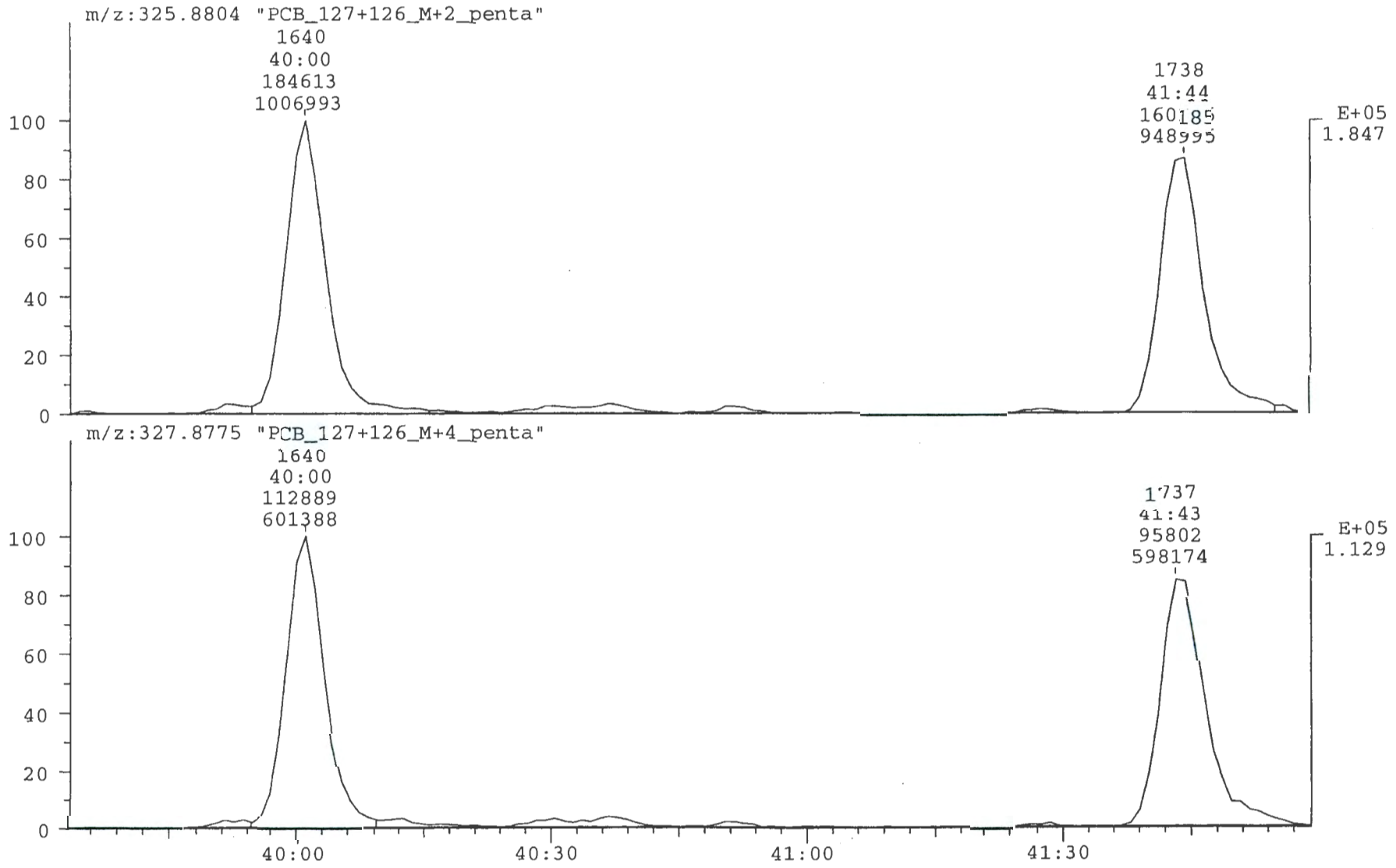


2295

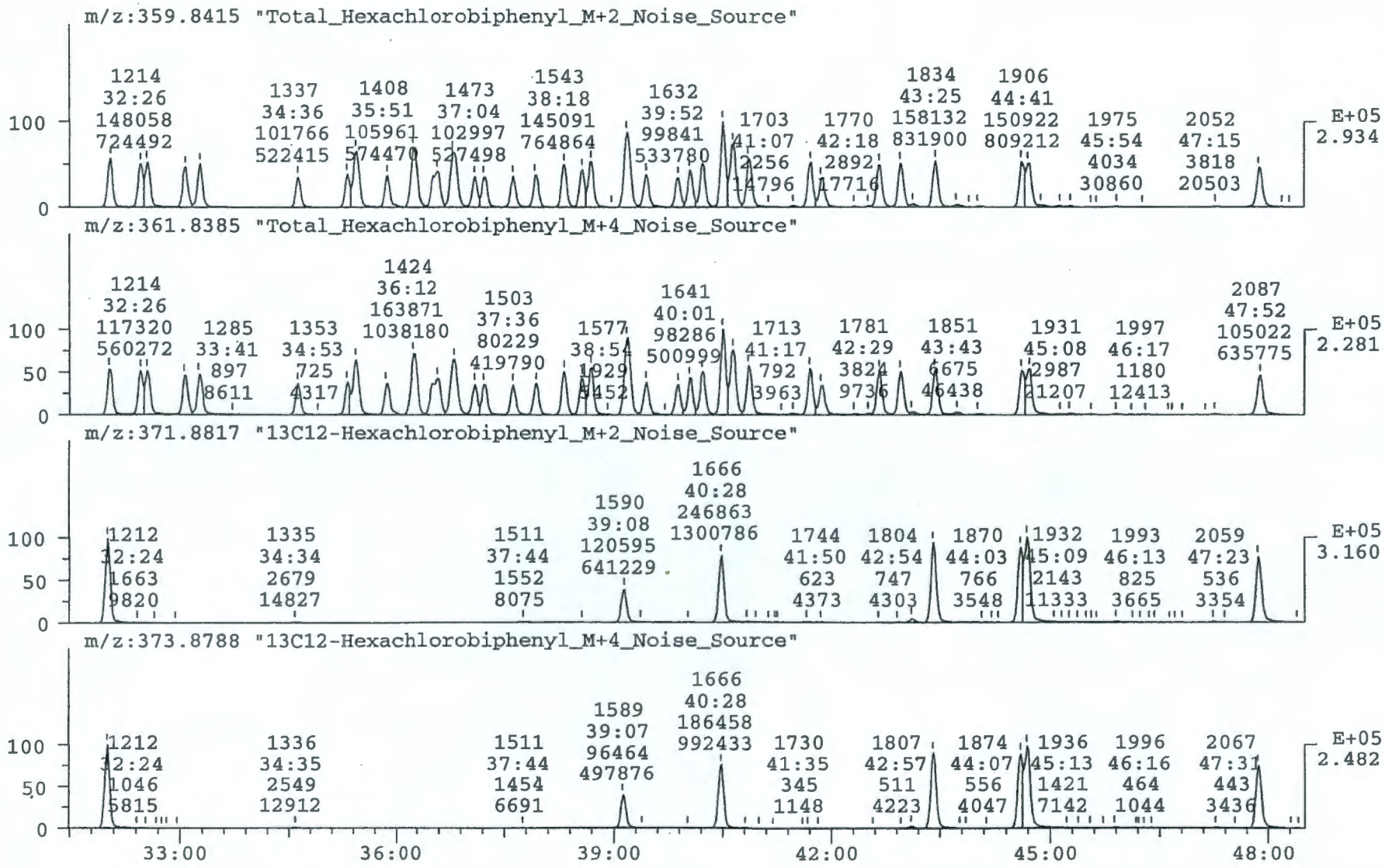
```
CHRO:  a070927s2                                27-Sep-07   Elapse:  56:12      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1499 > 1576           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  3, 3.0
Disp:  Height  Area
```



```
CHRO:  a070927s2                                27-Sep-07   Elapse:  40:52      1689
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1614 > 1752           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```

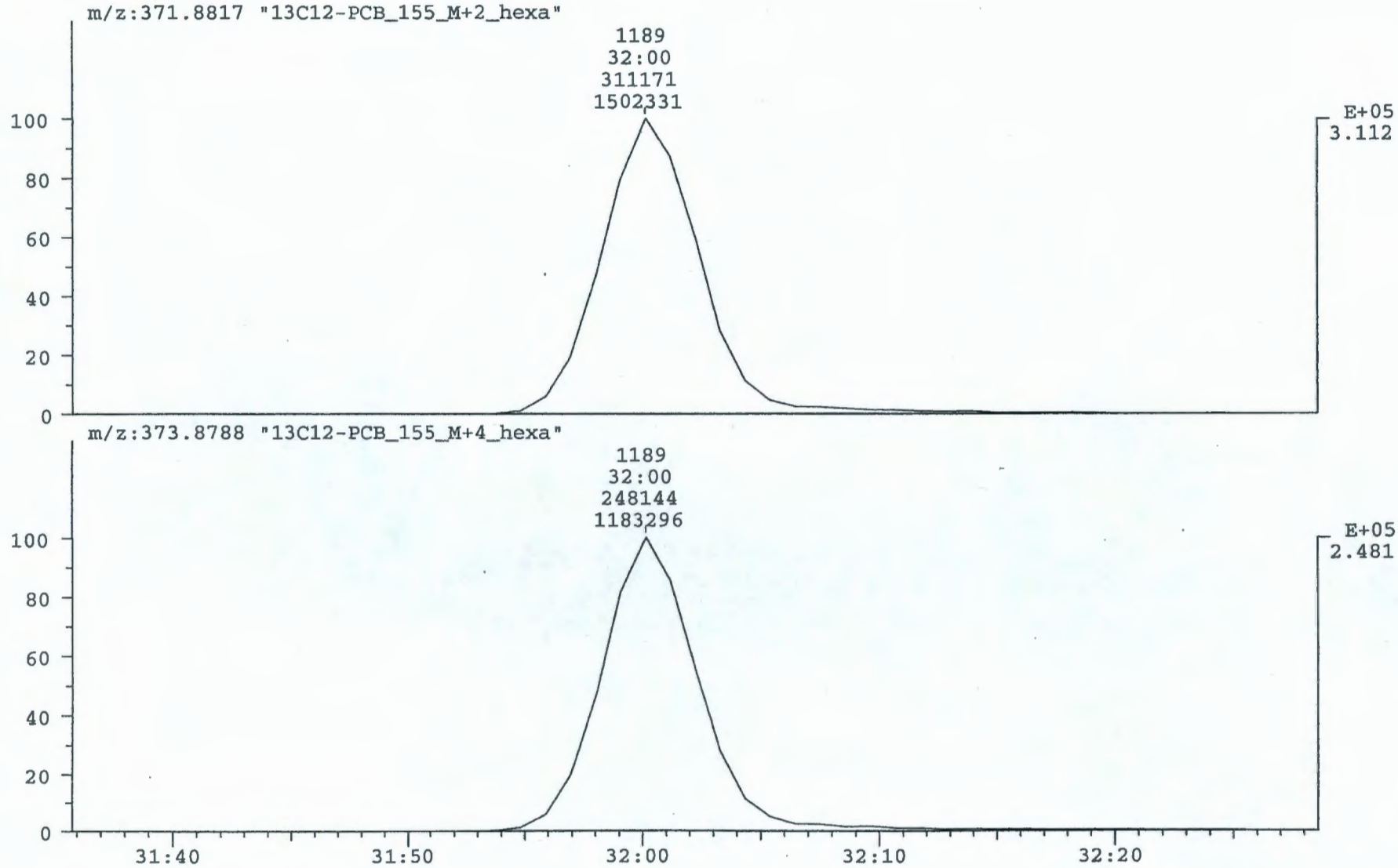


CHRO: a070927s2 27-Sep-07 Elapse: 39:58 1638
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1160 > 2122 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

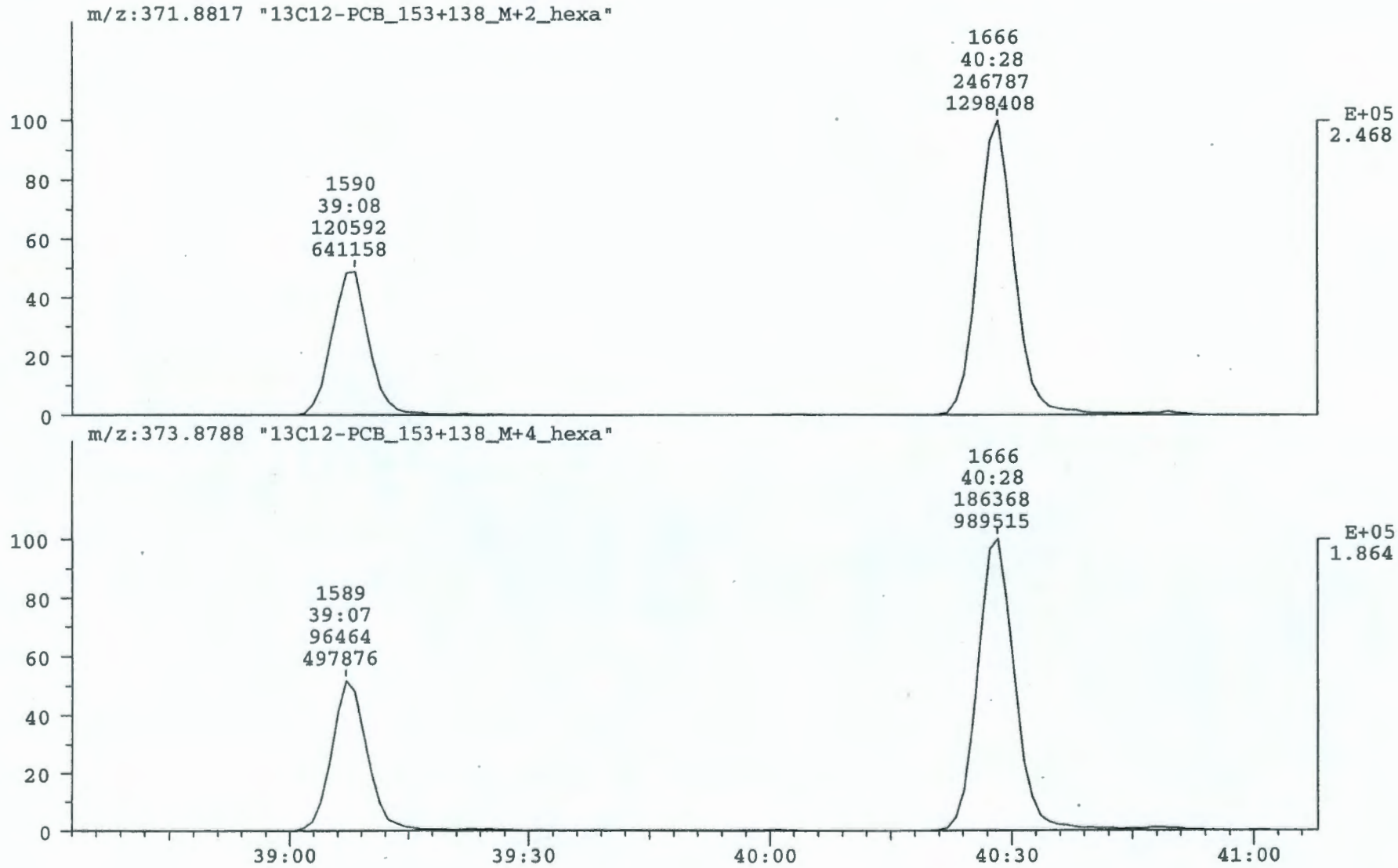


2298

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  32:02      1191
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1166 > 1216          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

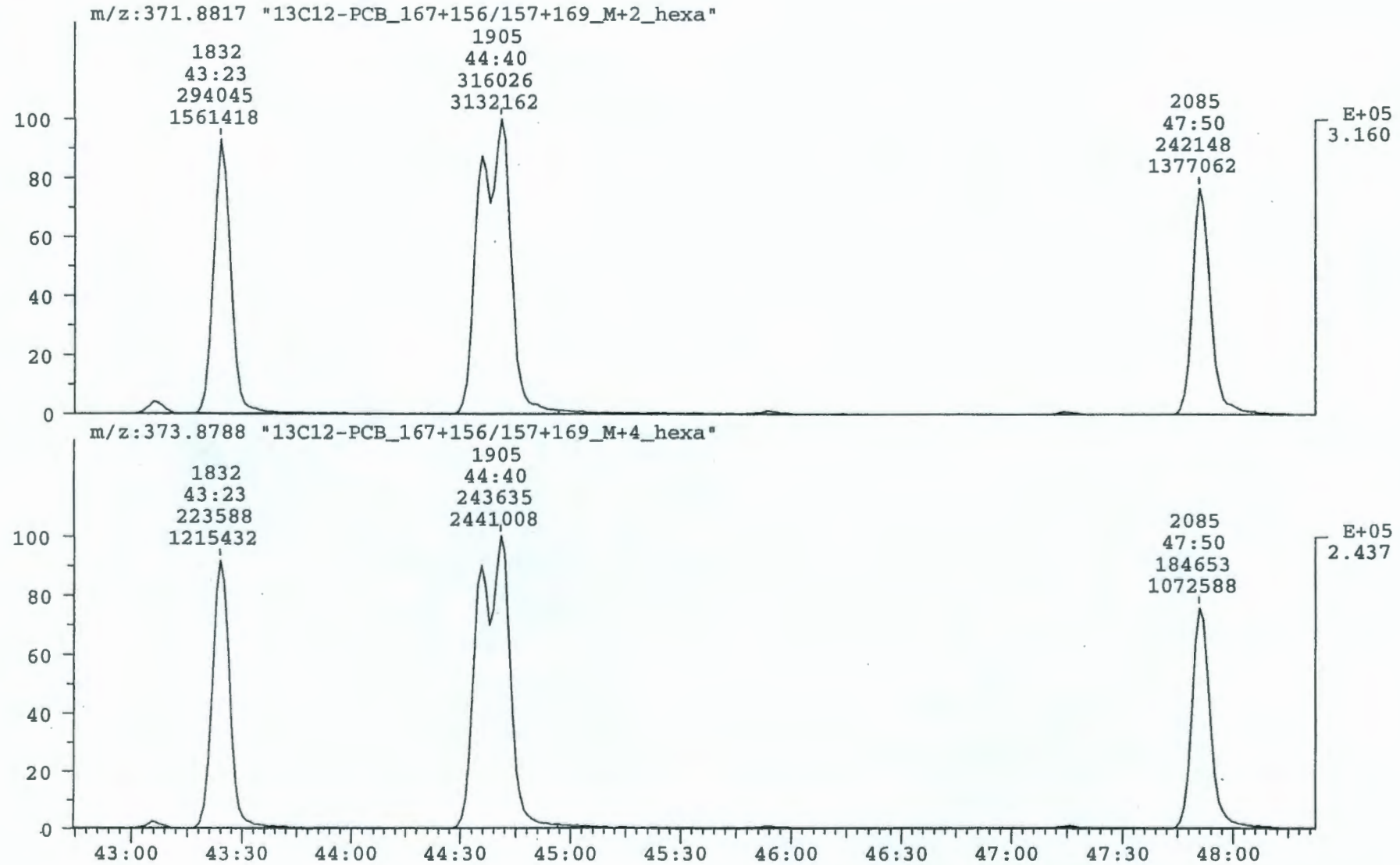


```
CHRO:  a070927s2                                27-Sep-07  Elapse:  39:50      1630
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1557 > 1704          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



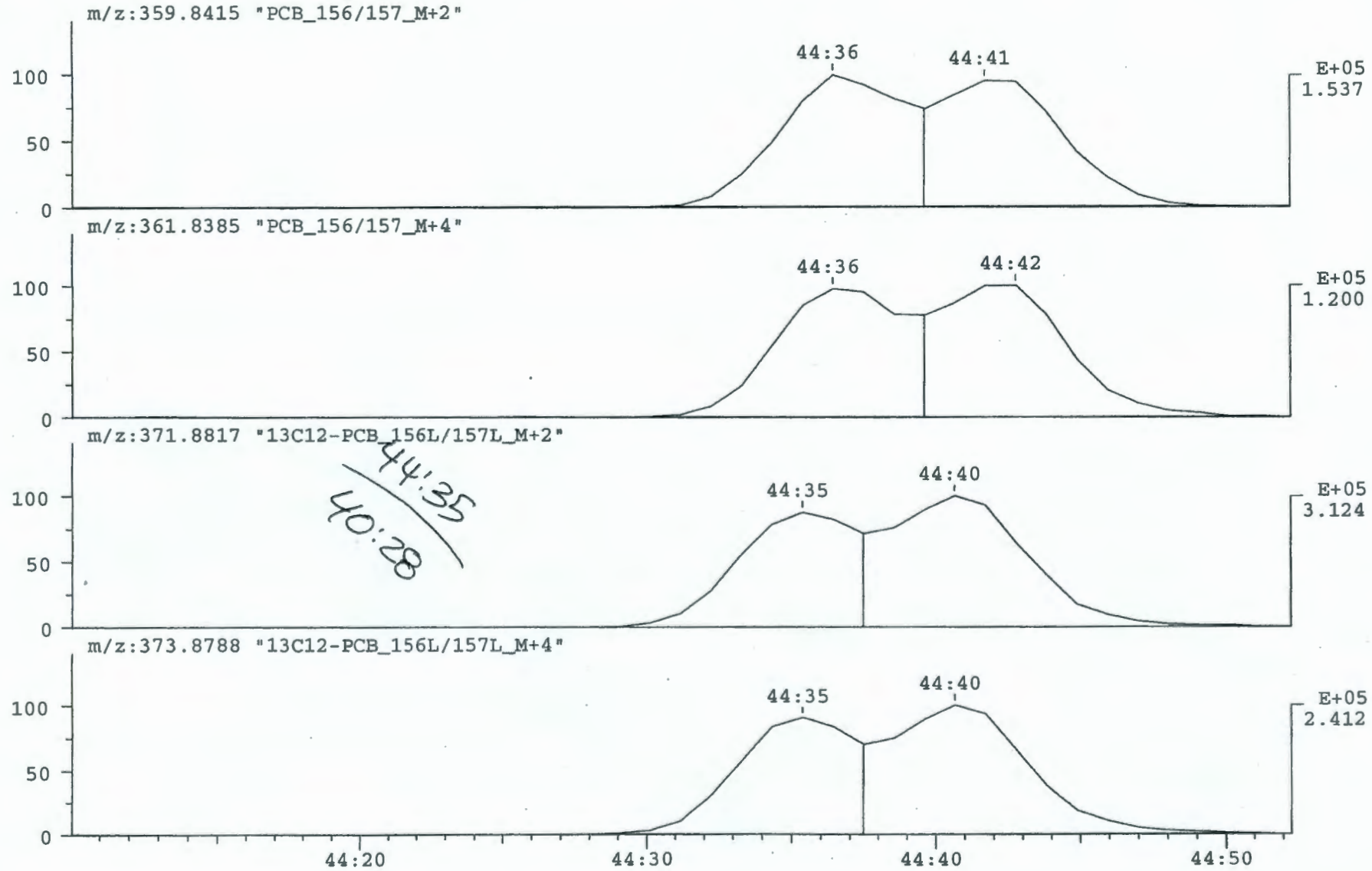
2300

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  45:38      1960
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1795 > 2115          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 9               Label :  -3, 3.0
Disp:  Height  Area
```



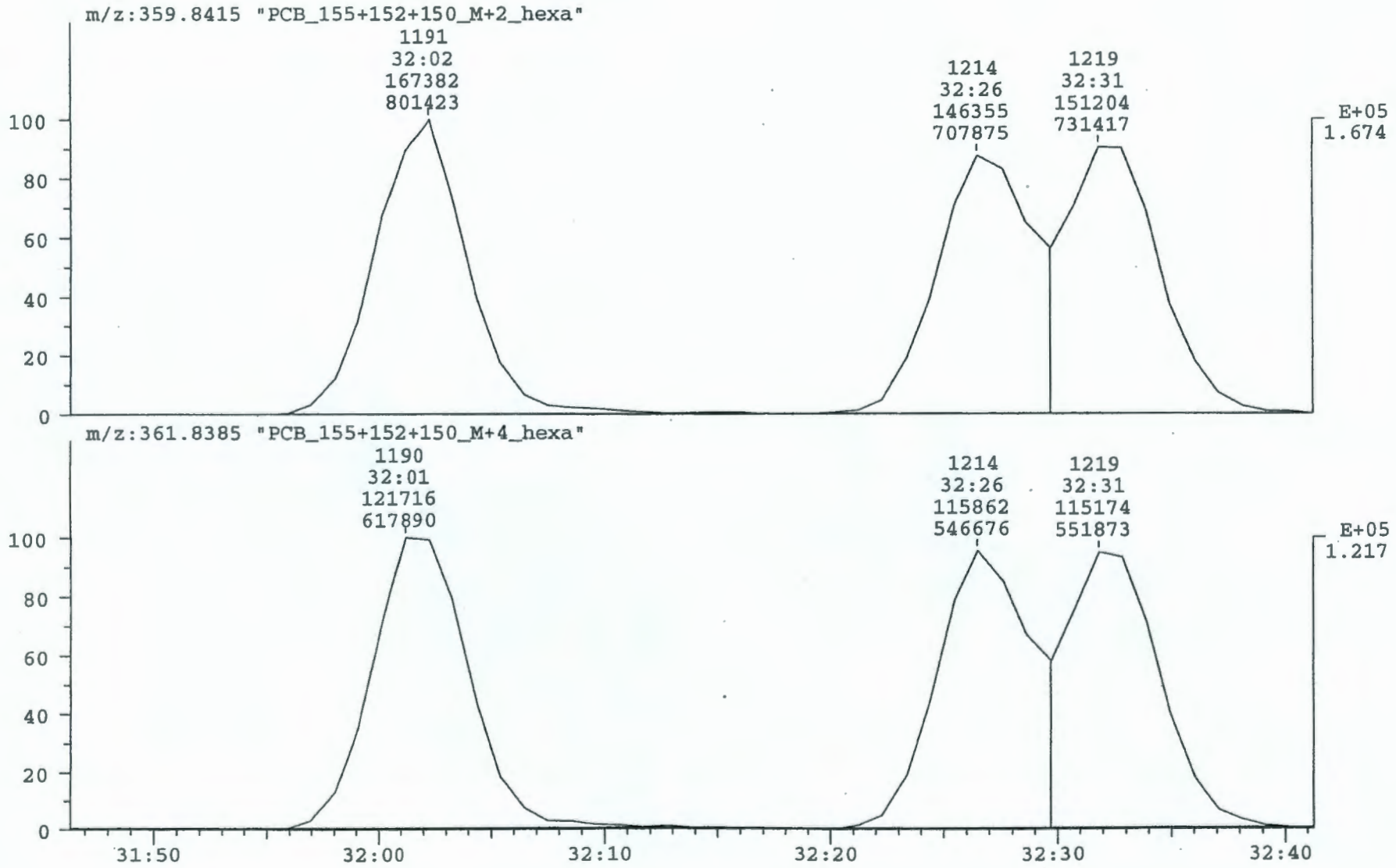
2301

CHRO: a070927s2 27-Sep-07 Elapse: 44:41 1906
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1876 > 1916 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0

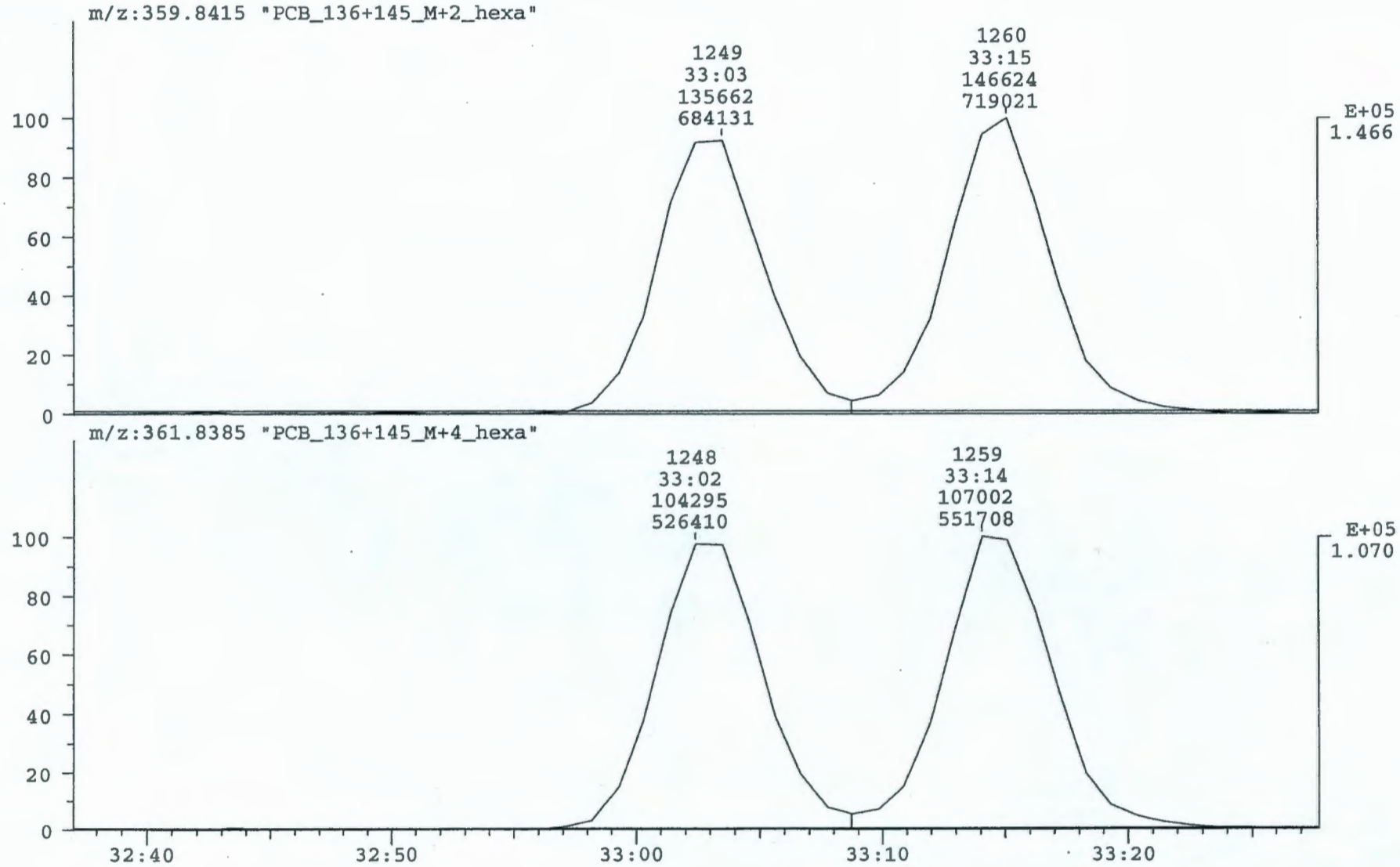


2302

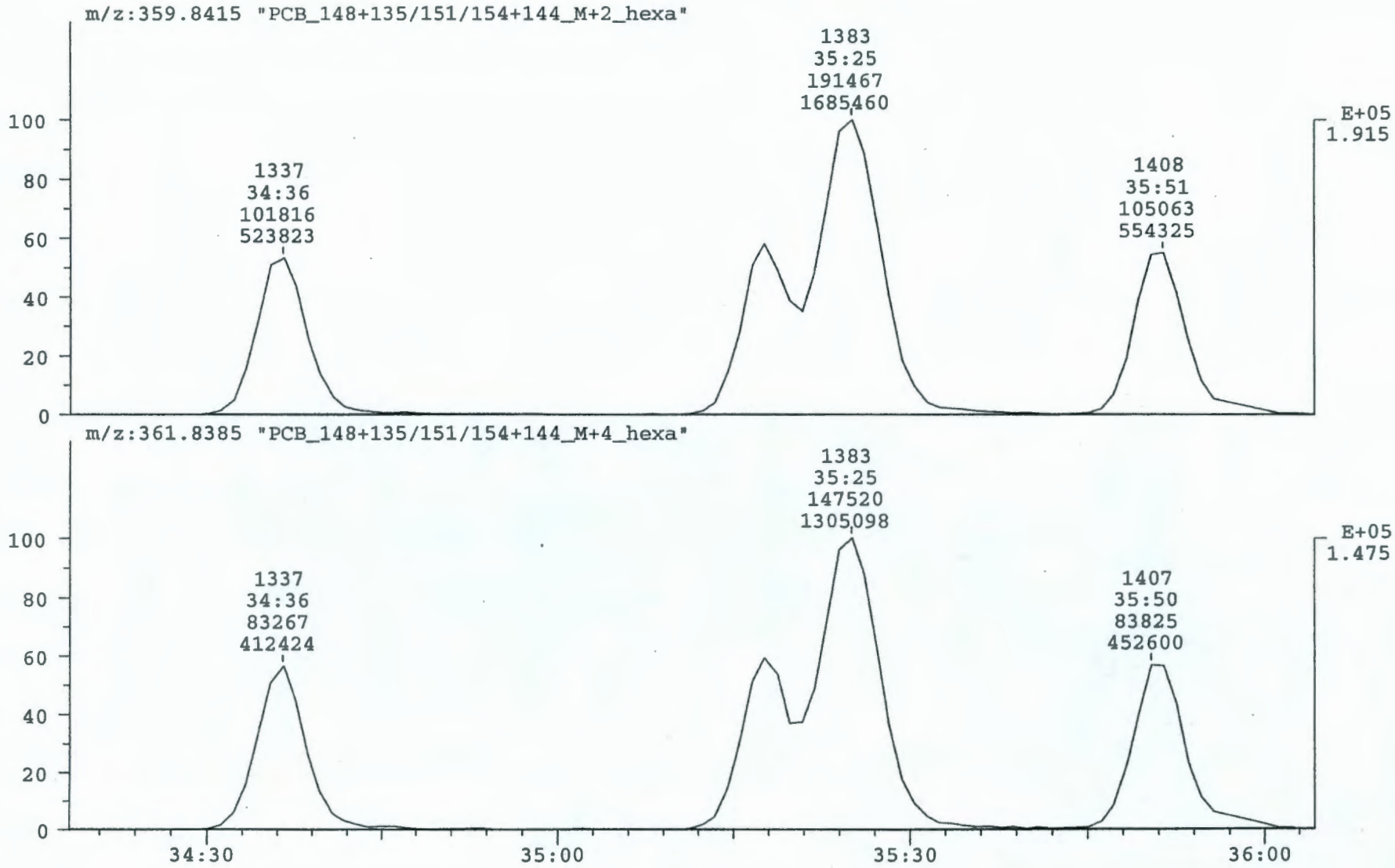
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  32:20      1208
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1176 > 1228           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



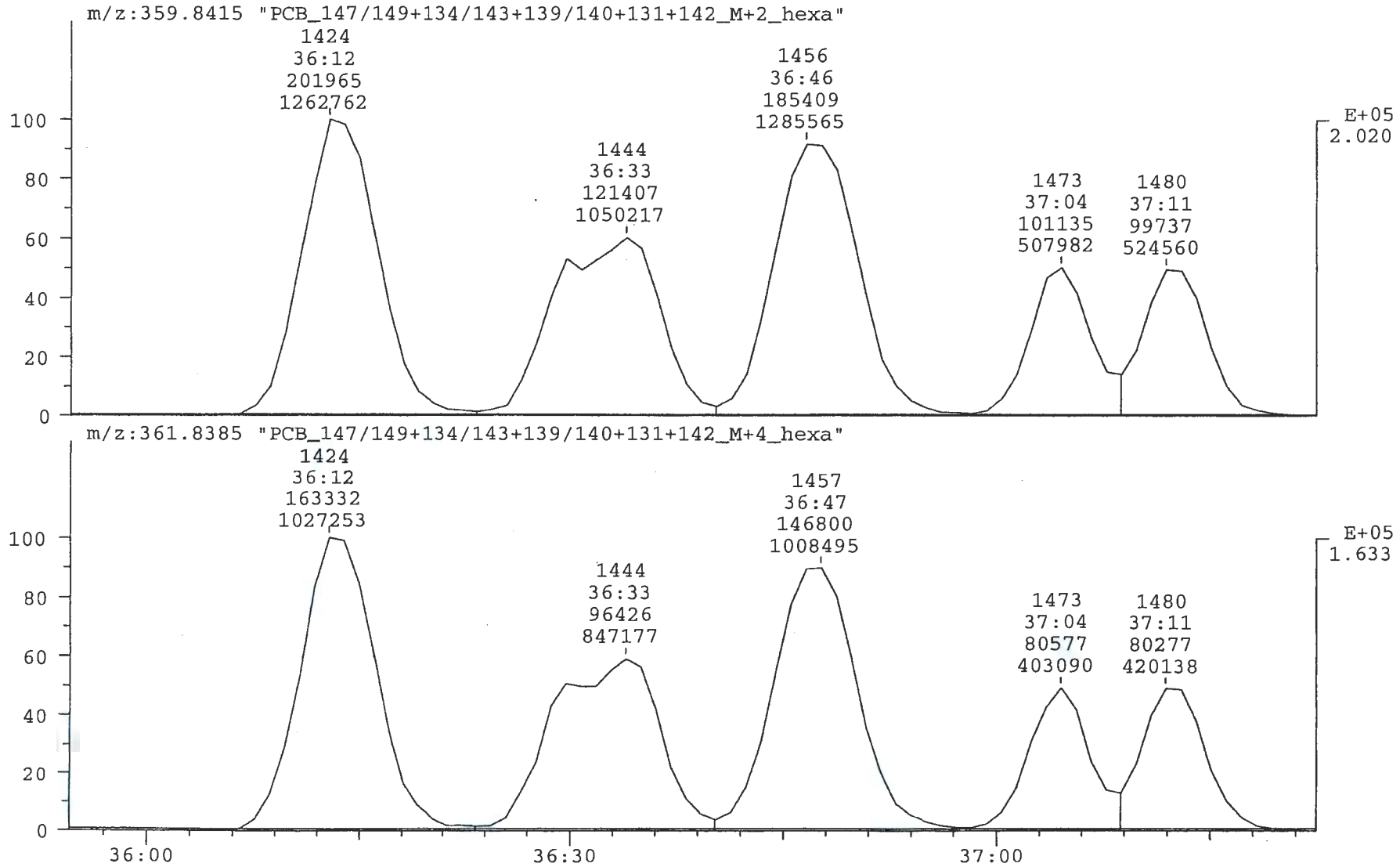
```
CHRO:  a070927s2                                27-Sep-07   Elapse:  33:08      1254
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1224 > 1272           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



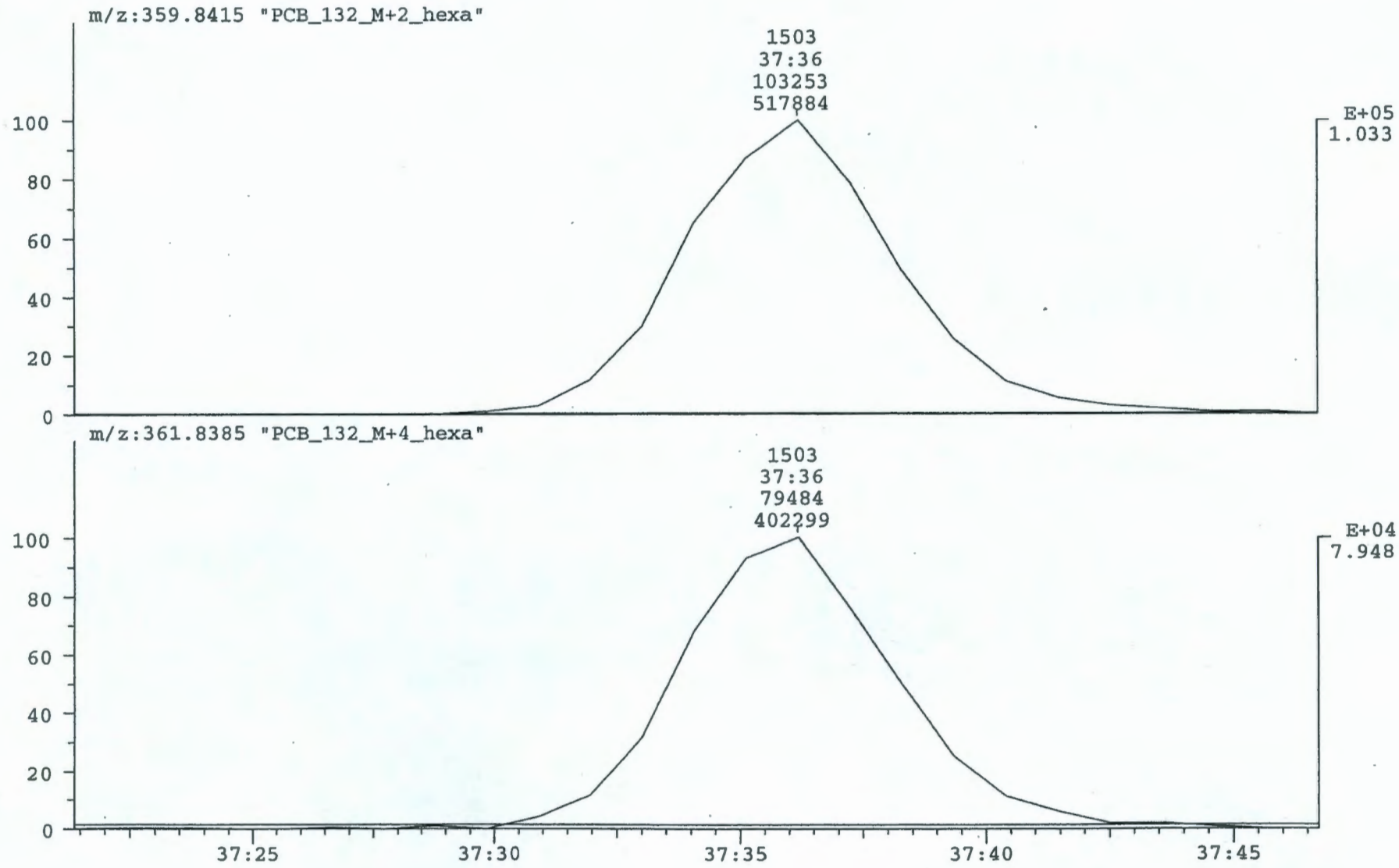
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  35:21      1380
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP           Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1320 > 1416           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 12               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a070927s2                                27-Sep-07  Elapse:  36:45      1455
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1411 > 1490          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5               Label :  -3, 3.0
Disp:  Height  Area
```

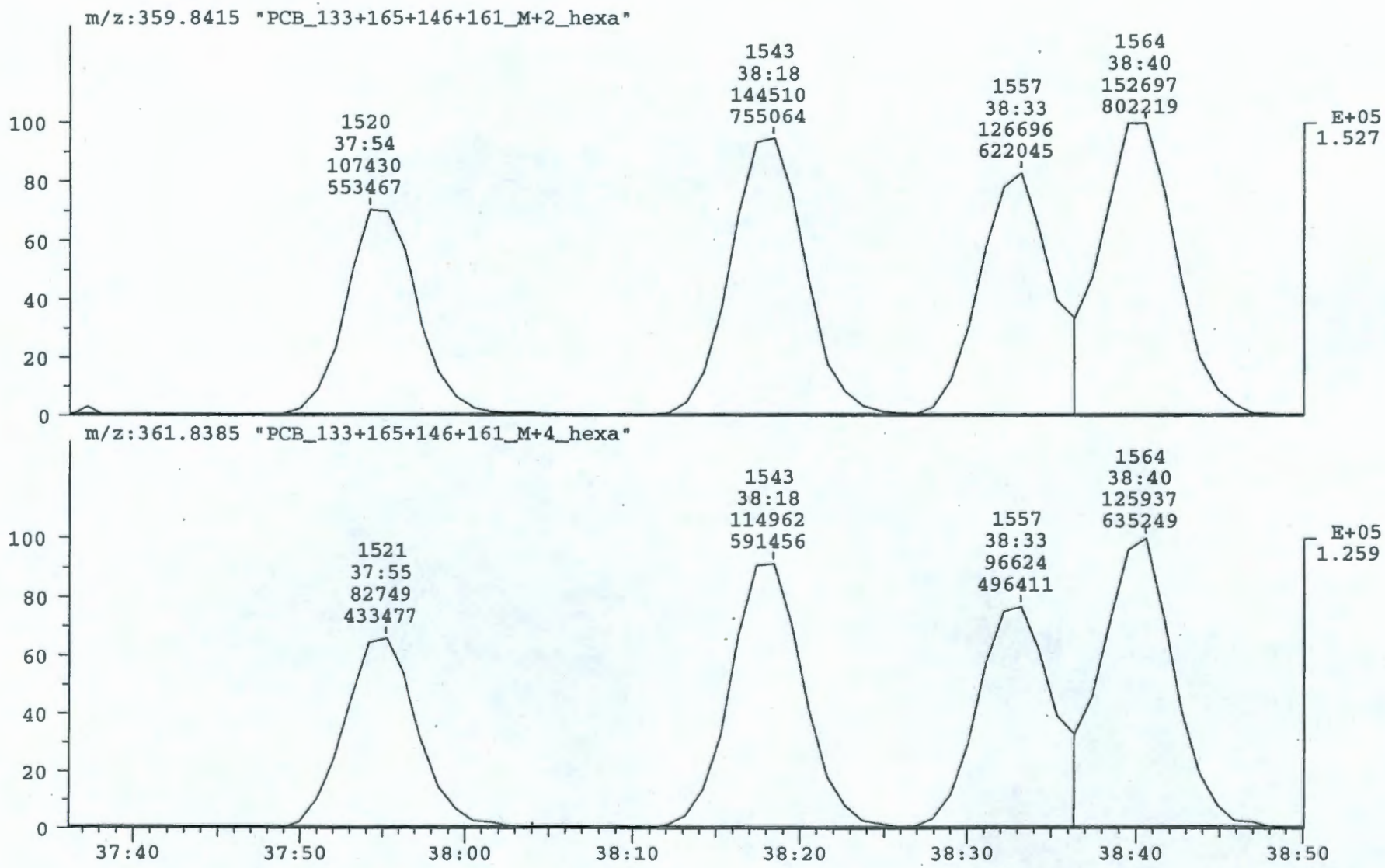


```
CHRO:  a070927s2                                27-Sep-07  Elapse:  37:34      1501
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1489 > 1513           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 5                Label :  -3, 3.0
Disp:  Height  Area
```



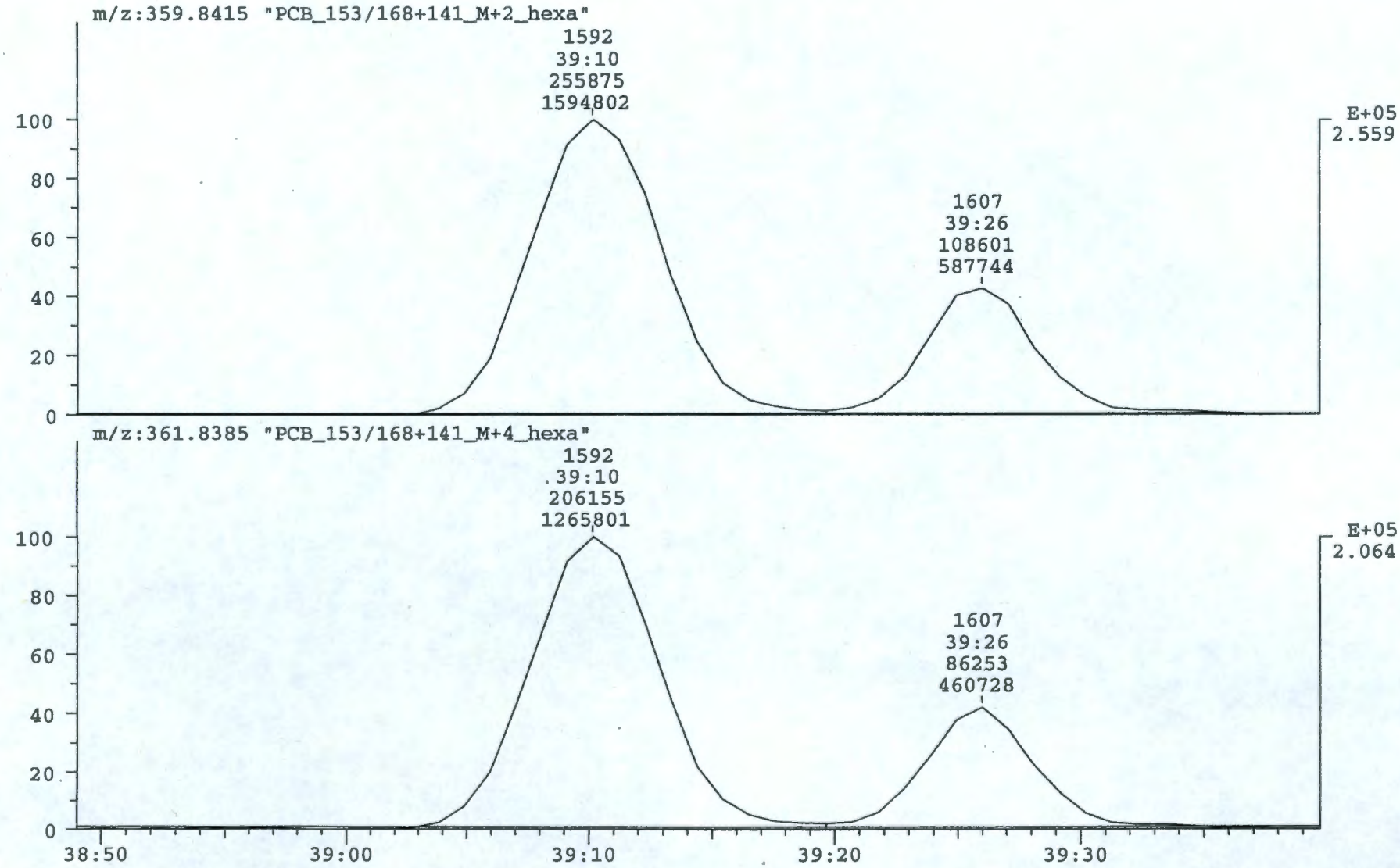
2307

CHRO: a070927s2 27-Sep-07 Elapse: 38:21 1546
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1503 > 1573 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



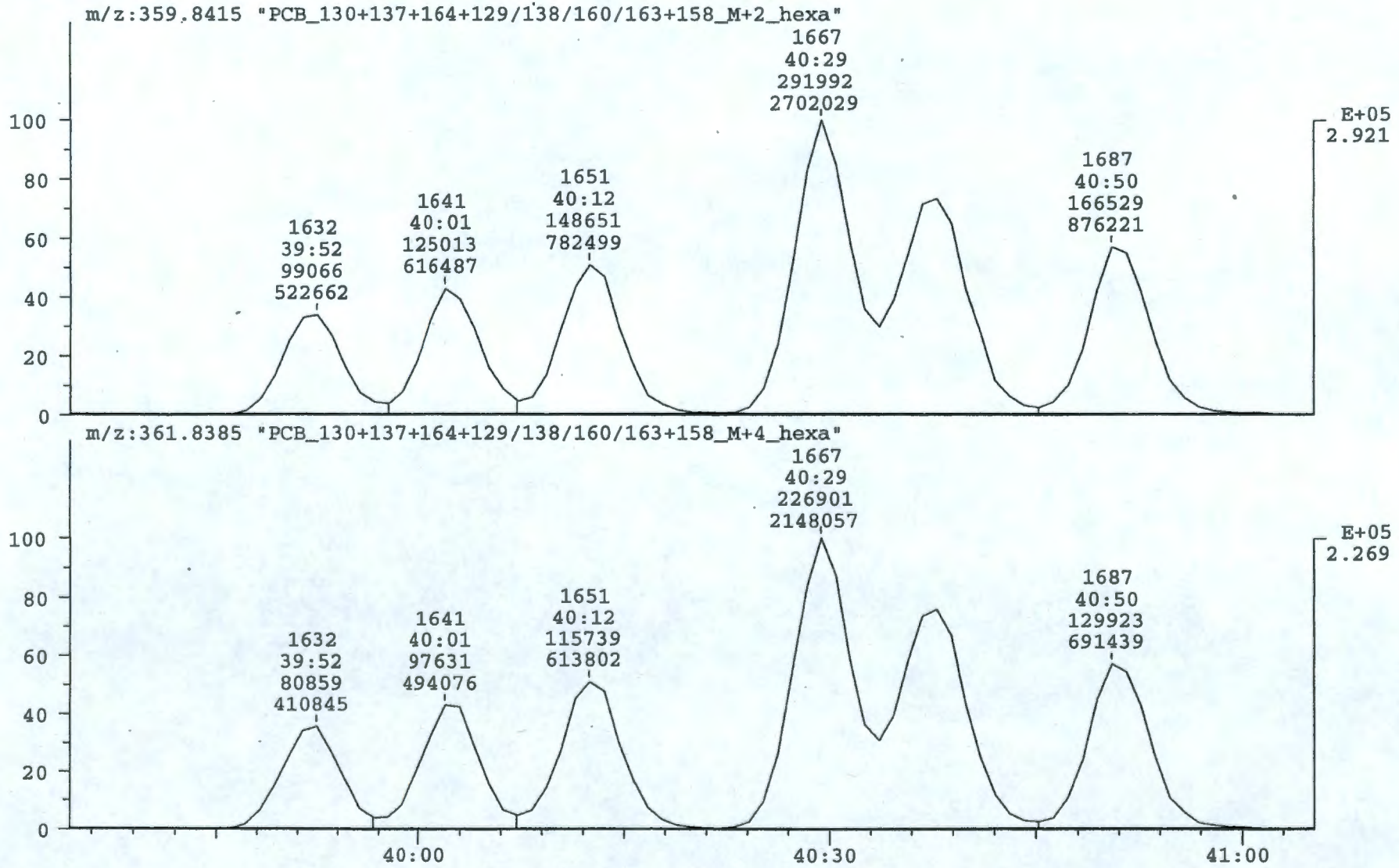
2308

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  39:20      1602
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1572 > 1620          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



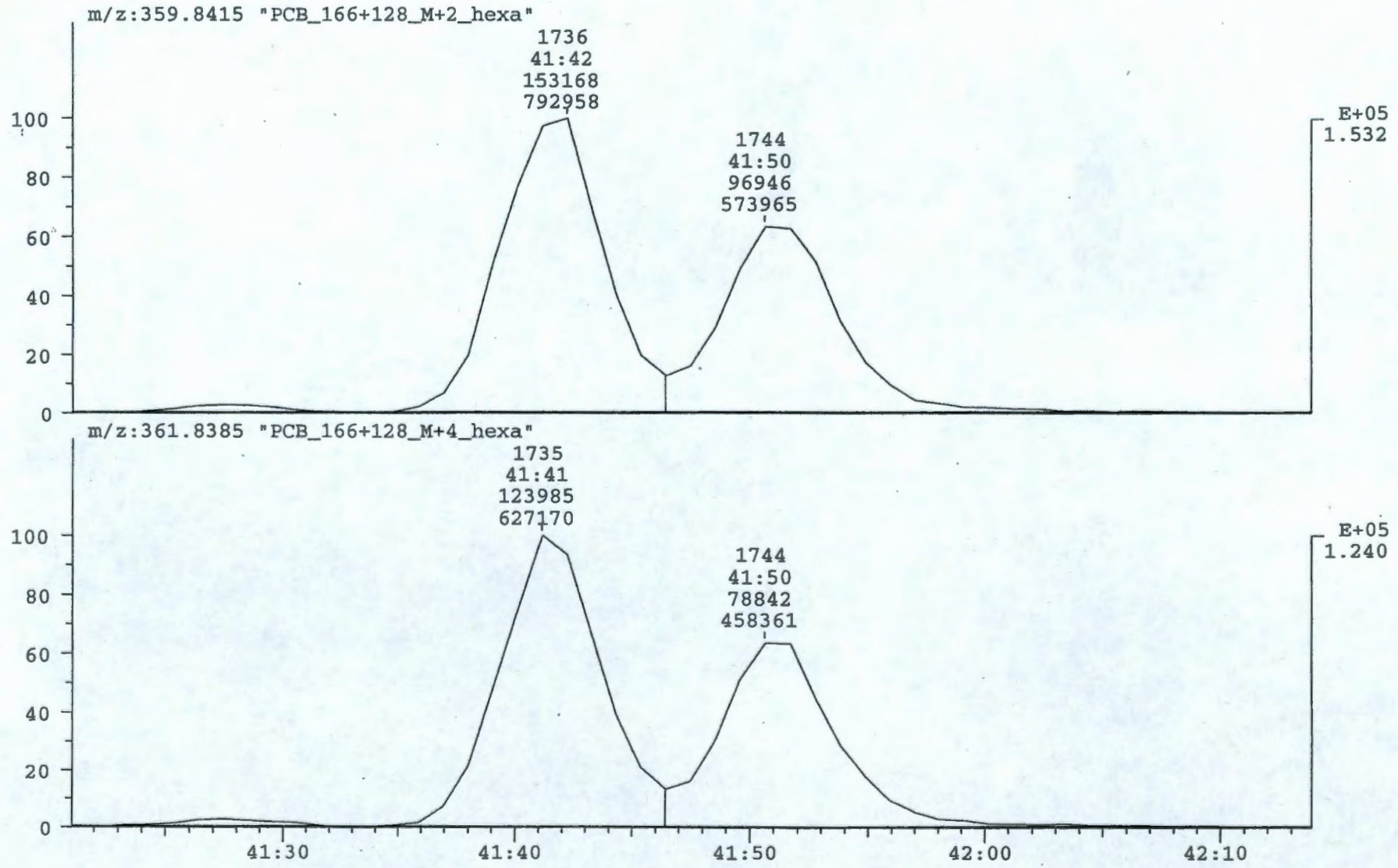
2309

```
CHRO:  a070927s2                                27-Sep-07  Elapse:  40:23      1661
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1615 > 1701          Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 7               Label :  -3, 3.0
Disp:  Height  Area
```

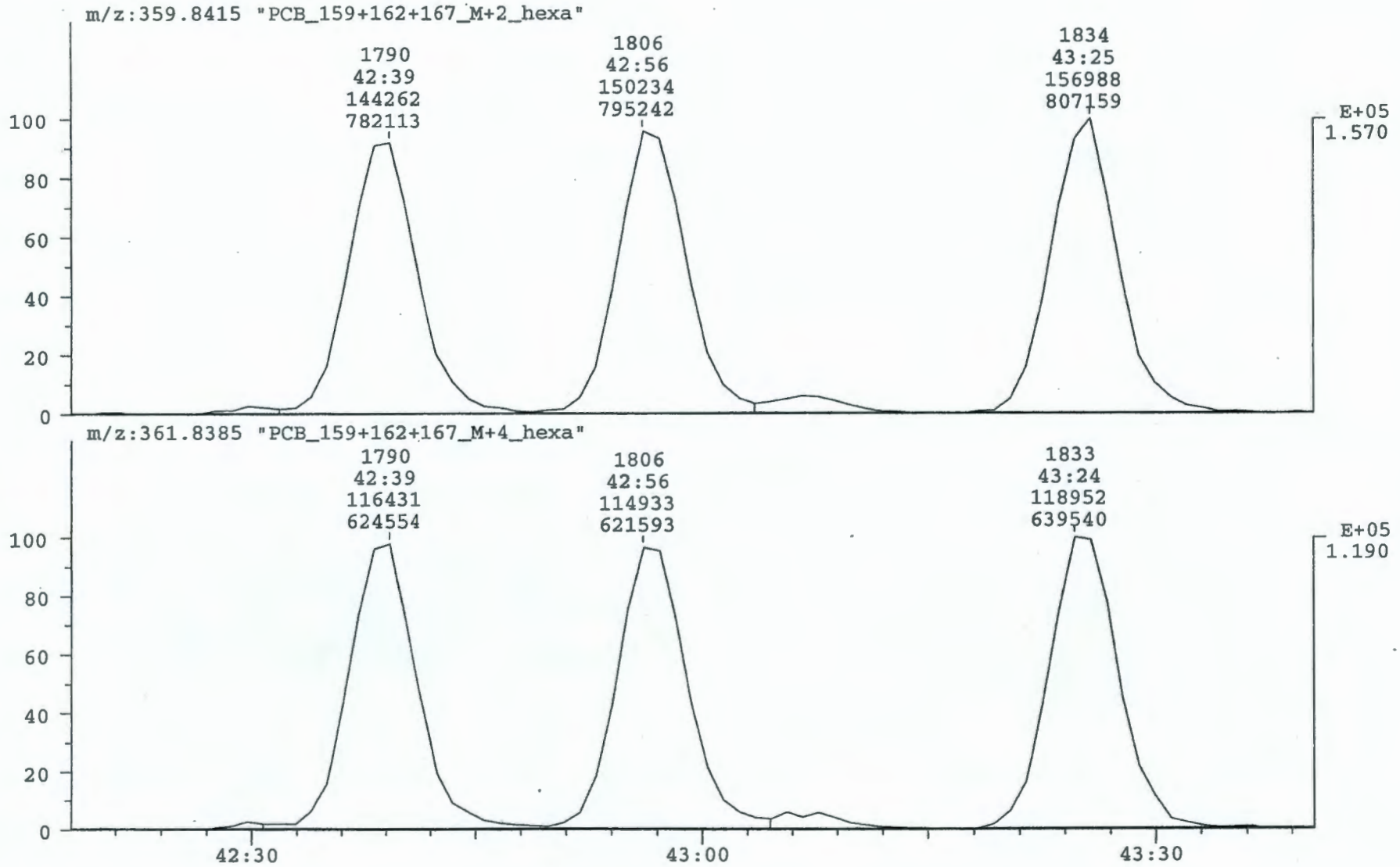


2310

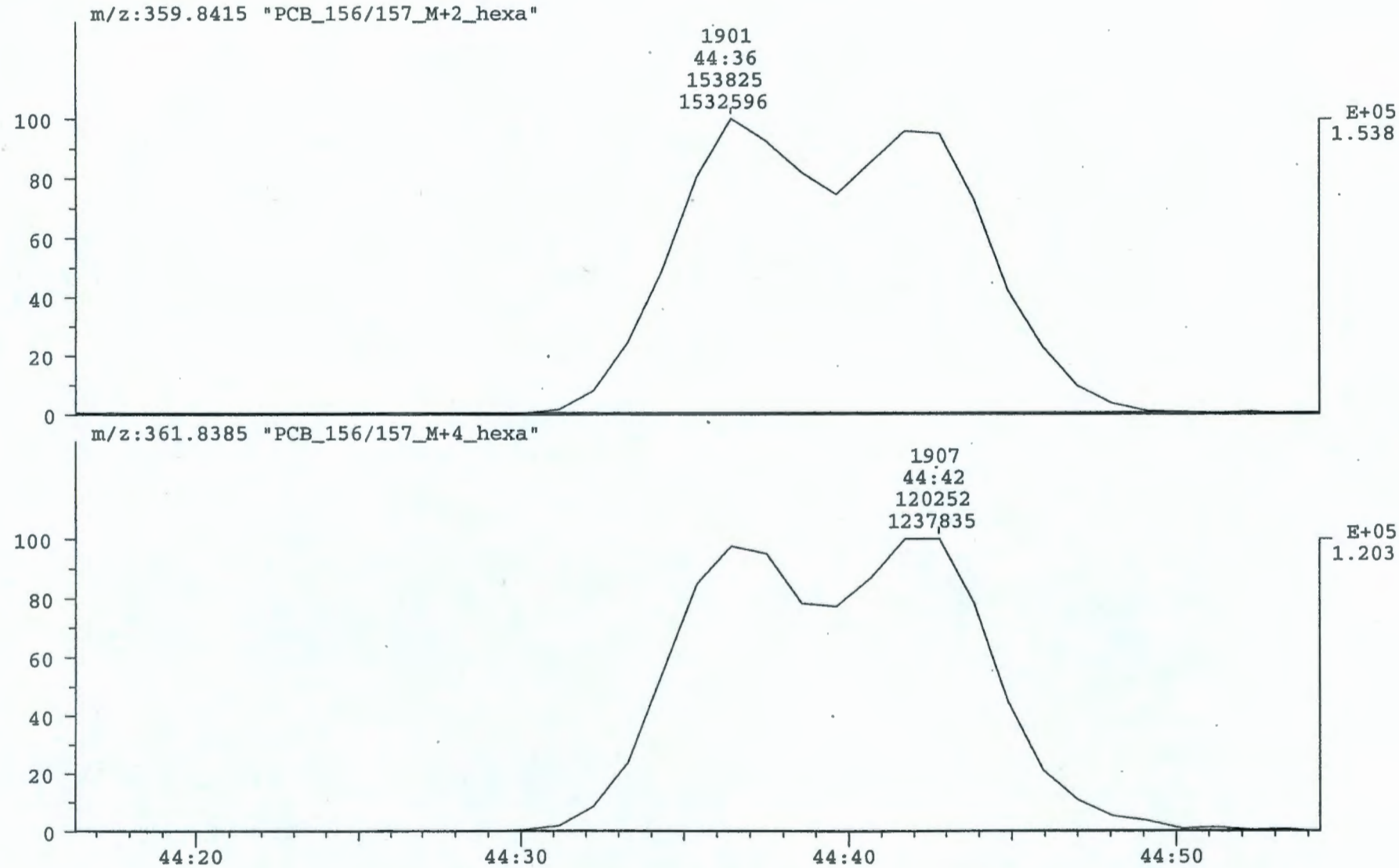
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  41:47      1741
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1716 > 1766           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```



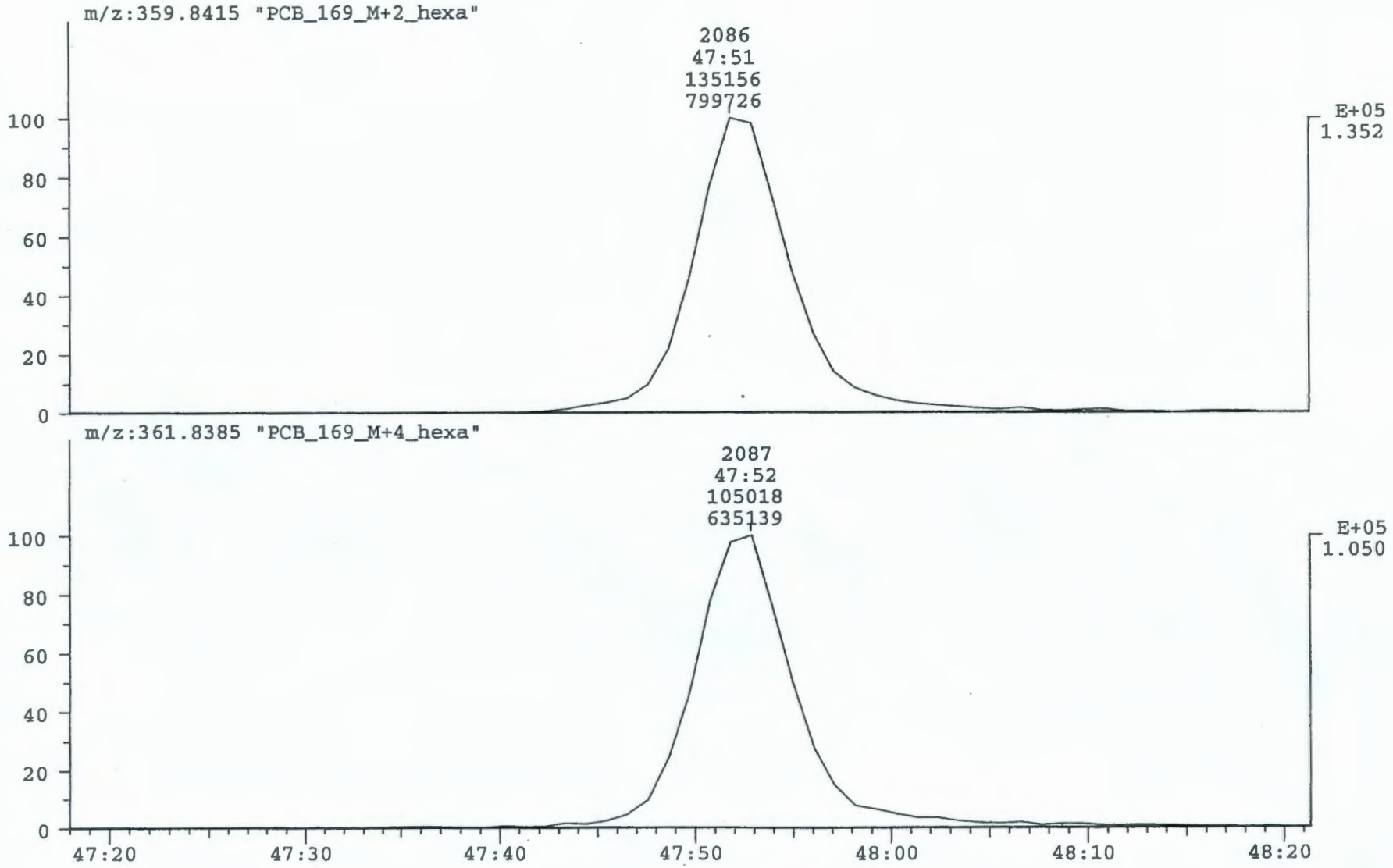
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  43:05      1815
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1770 > 1848          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



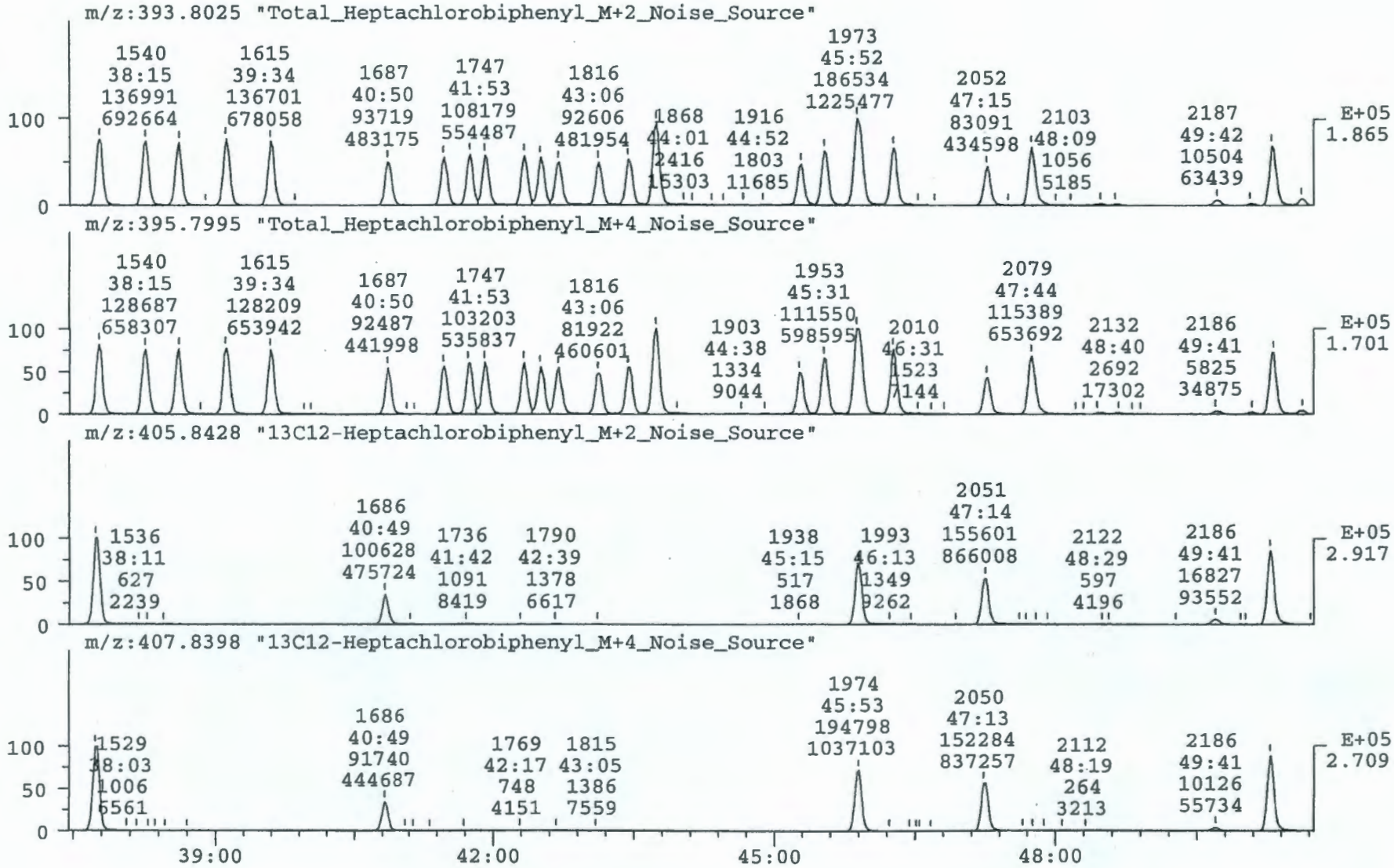
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  44:37      1902
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm    Label wndw:   1882 > 1918            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :  100, 9                 Label :  -3, 3.0
Disp:  Height  Area
```



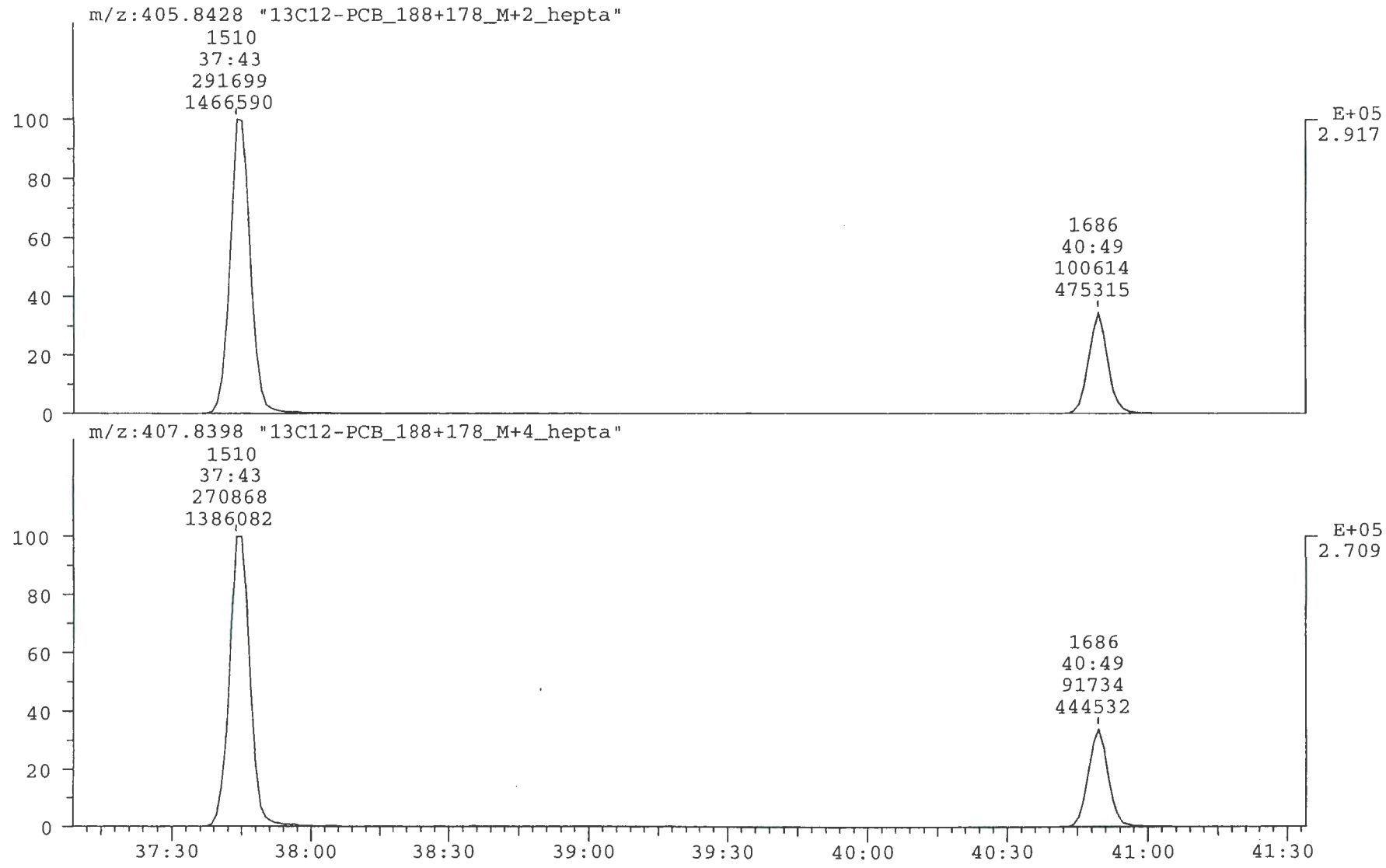
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  47:49      2084
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   2054 > 2114          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



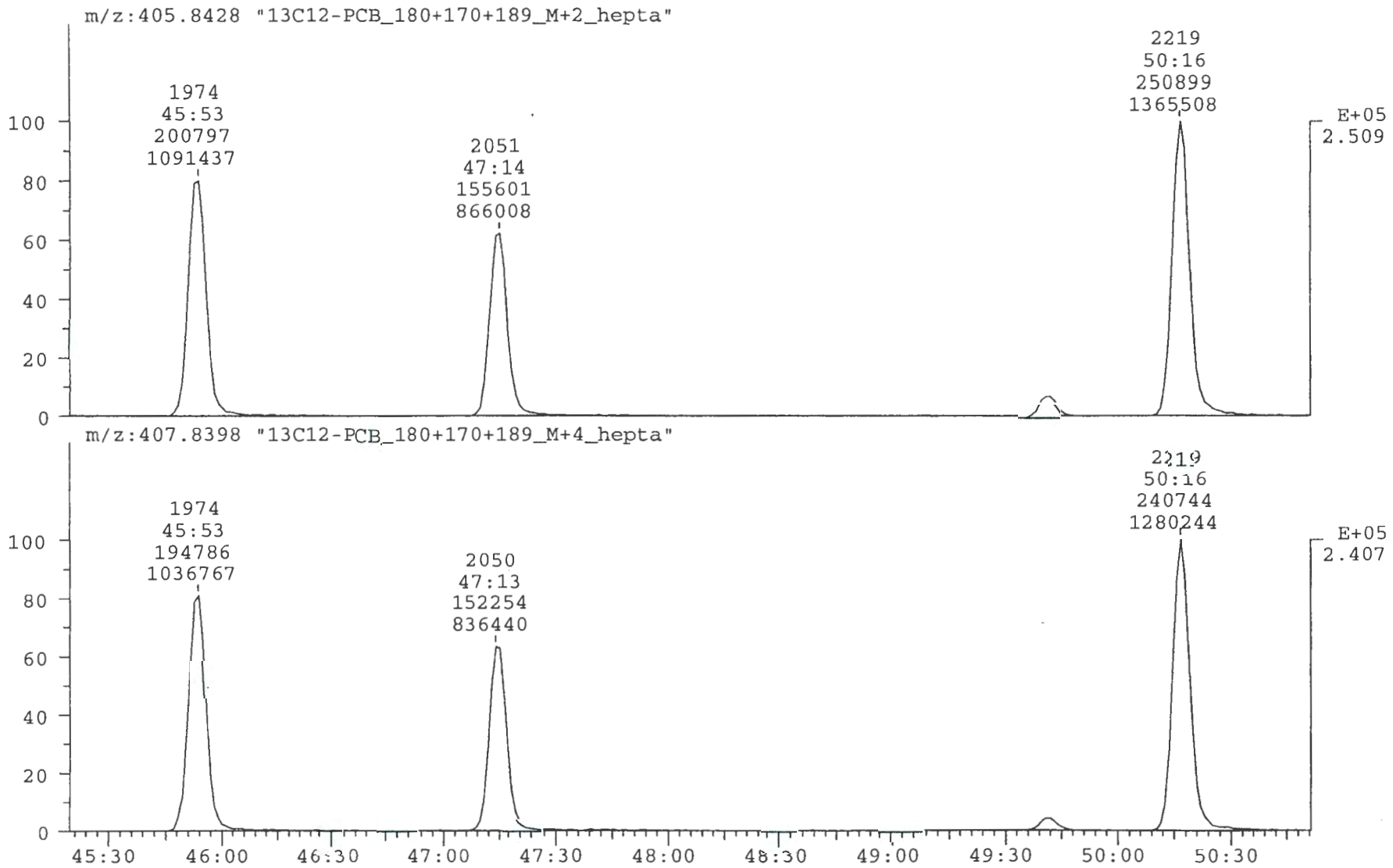
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  44:05      1872
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=mld/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1494 > 2246          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a070927s2                                27-Sep-07   Elapse:  39:20      1602
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1477 > 1728           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

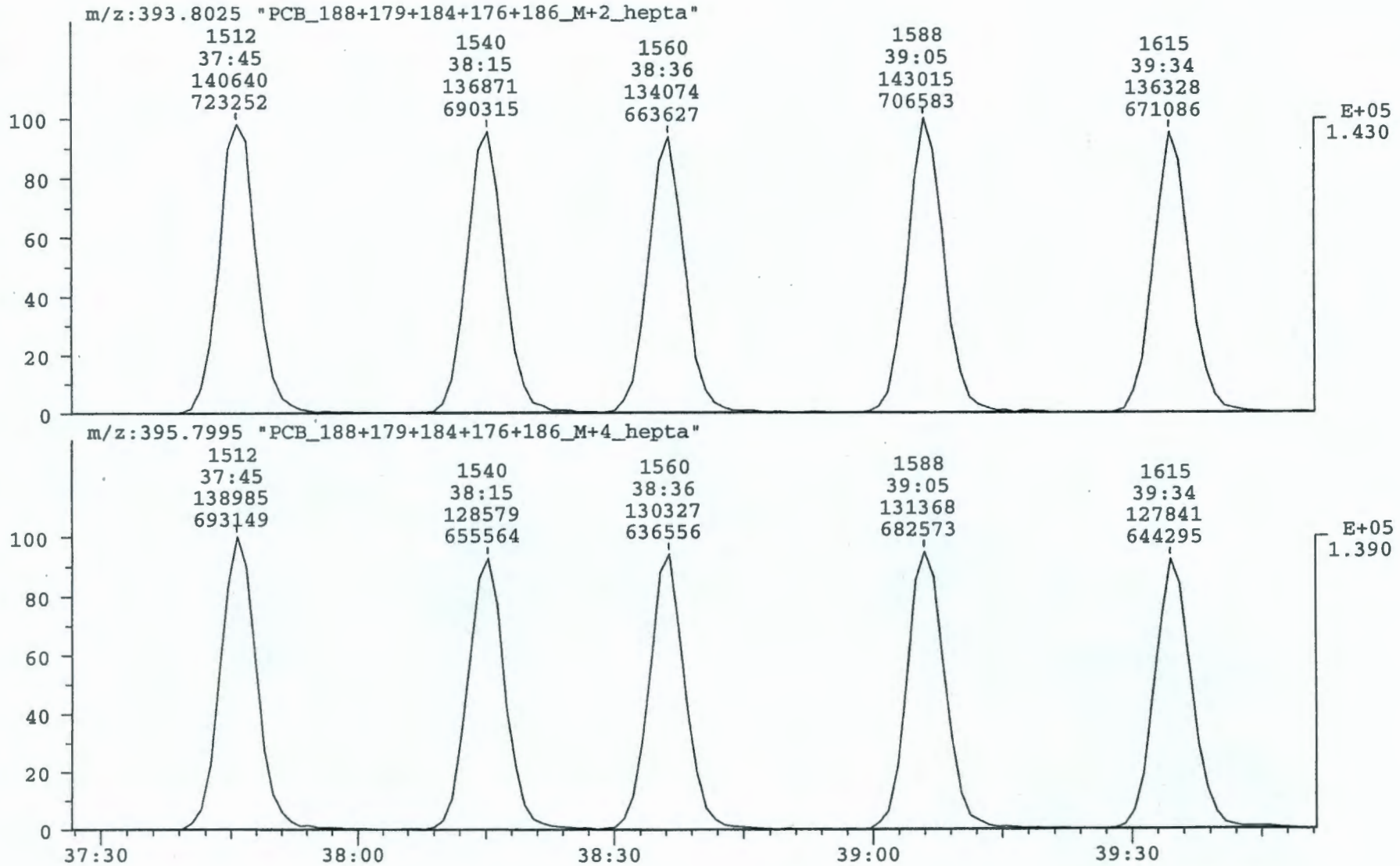


```
CHRO:  a070927s2                                27-Sep-07  Elapse:  48:08      2102
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1942 > 2252          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

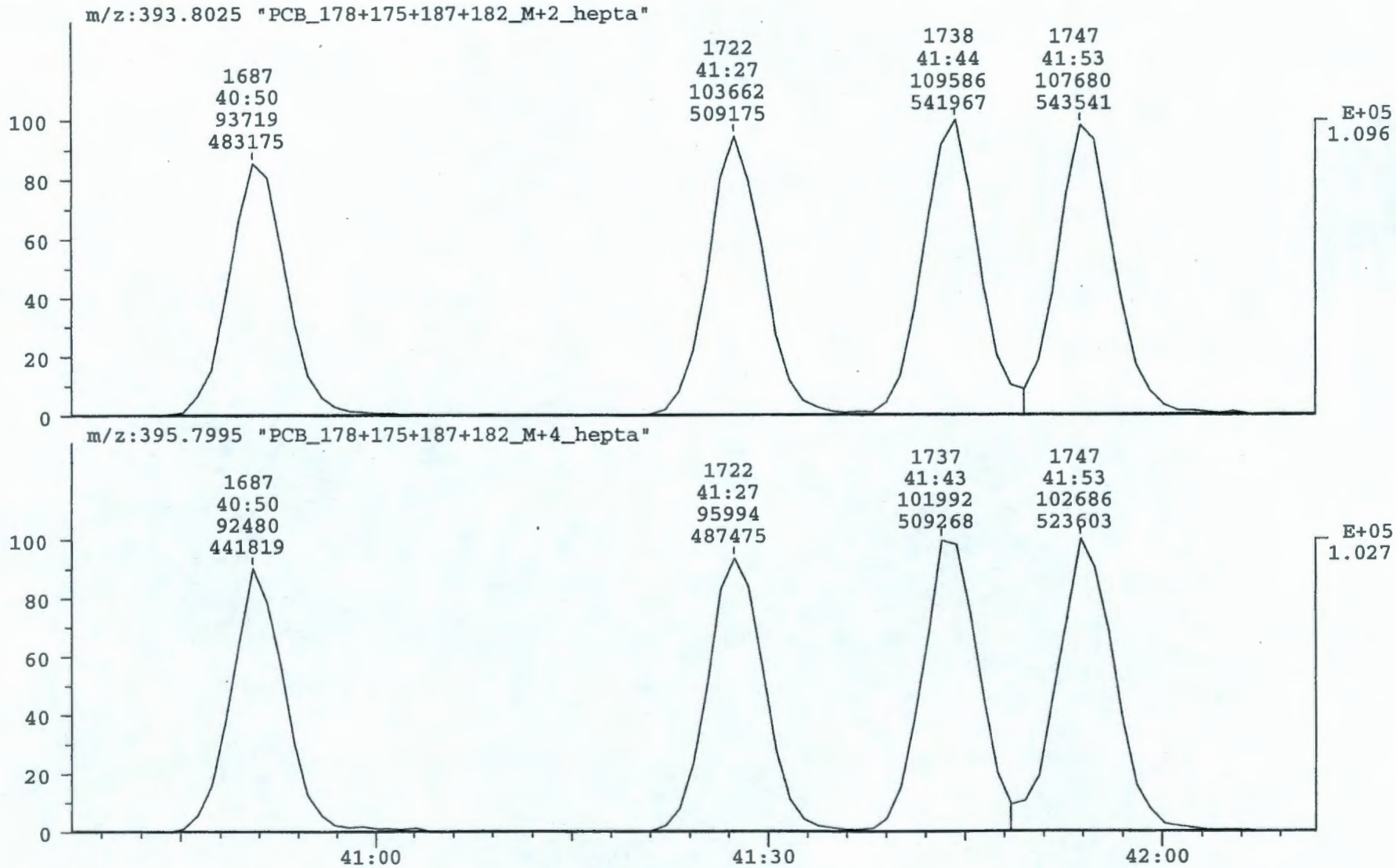


2317

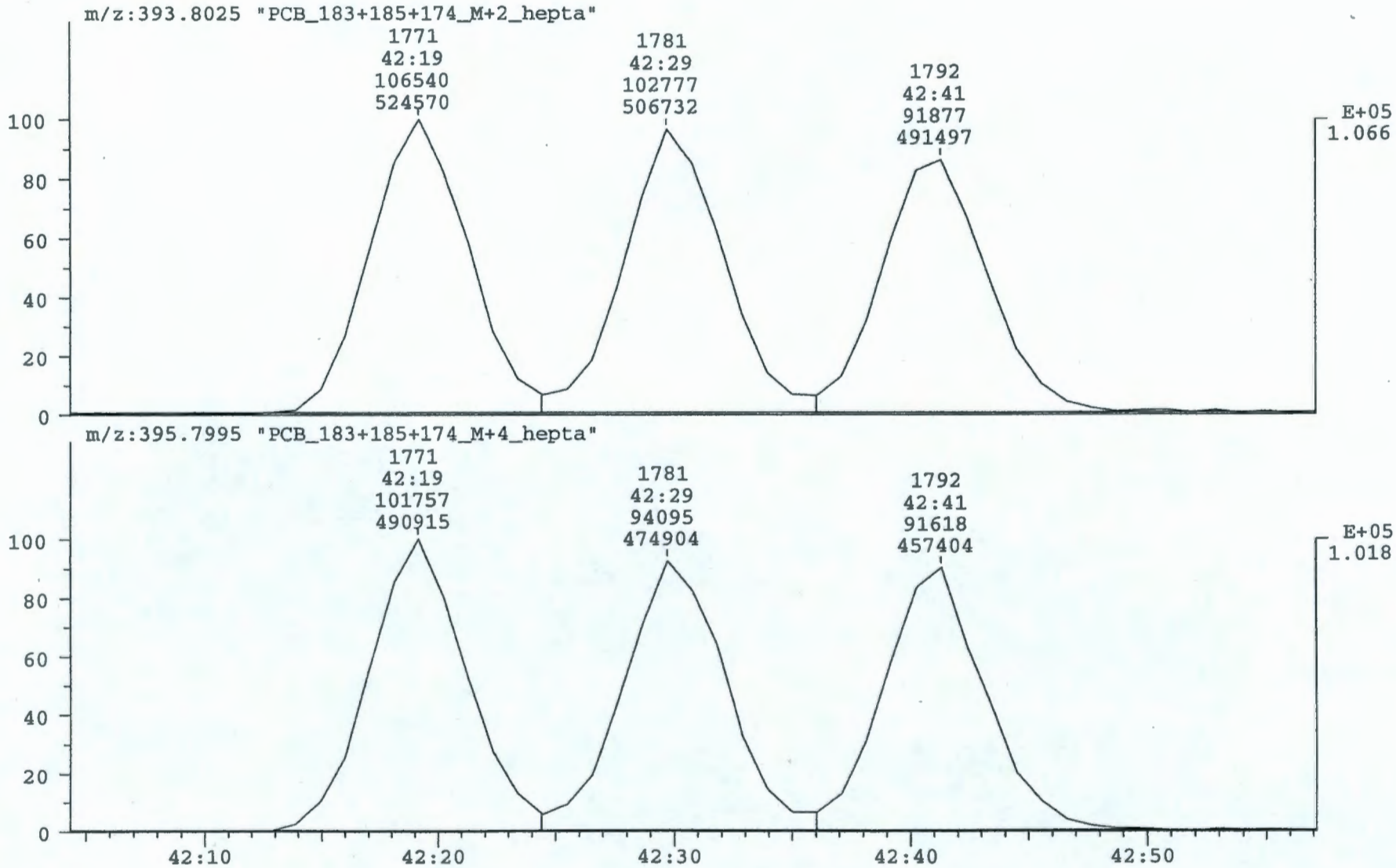
CHRO: a070927s2 27-Sep-07 Elapse: 38:42 1566
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1494 > 1631 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



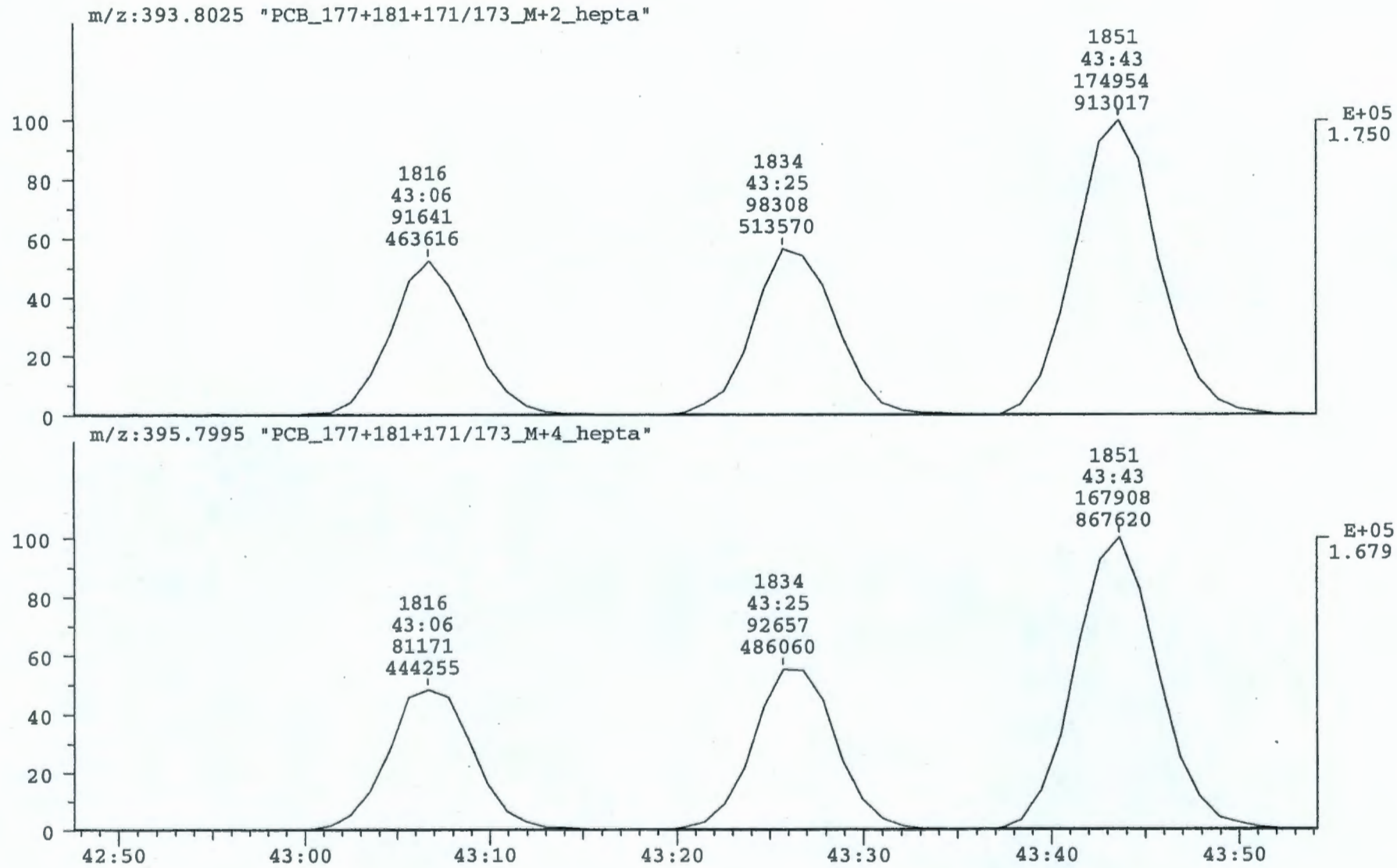
CHRO: a070927s2 27-Sep-07 Elapse: 41:29 1724
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1674 > 1764 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



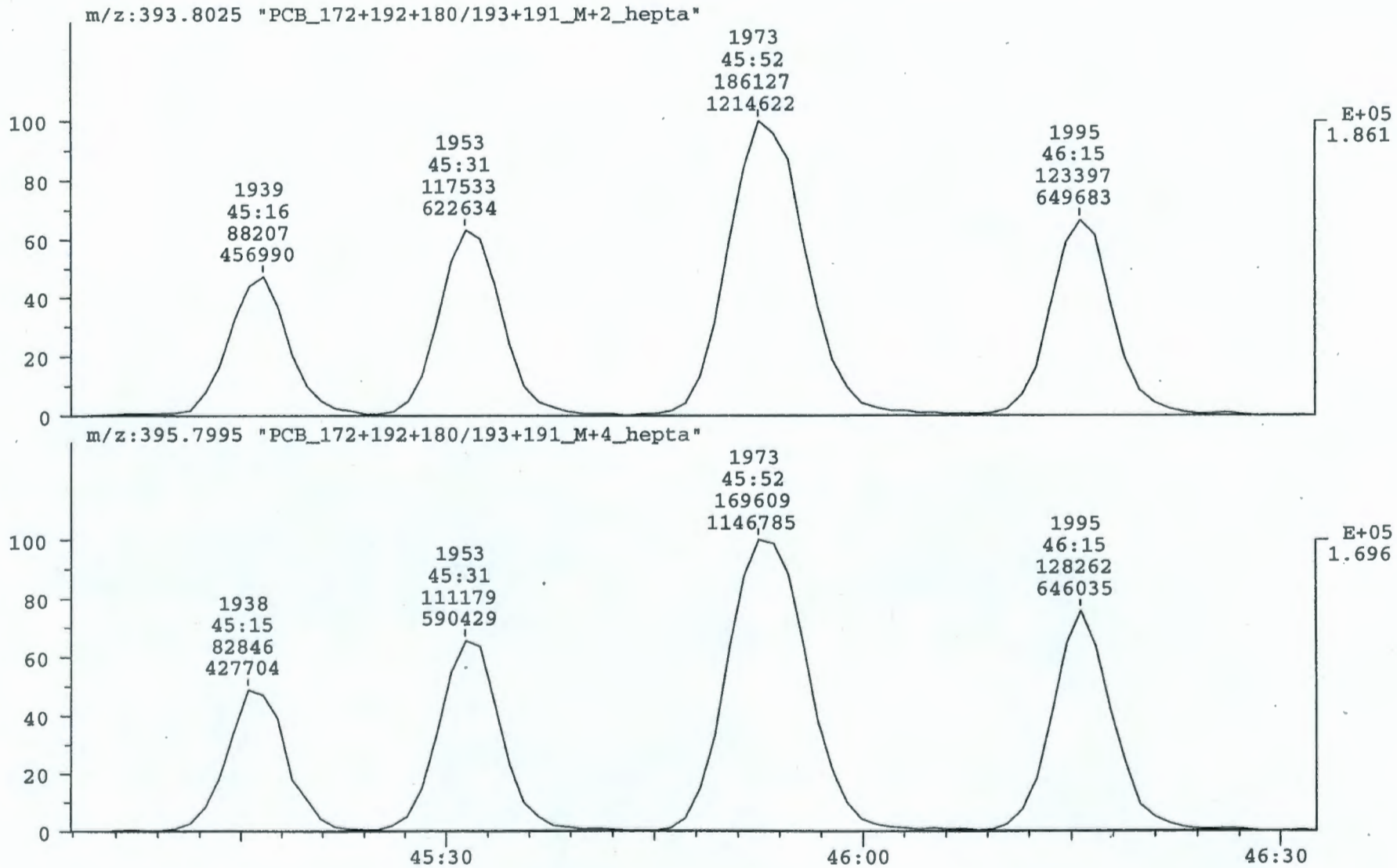
CHRO: a070927s2 27-Sep-07 Elapse: 42:41 1792
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1757 > 1807 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



CHRO: a070927s2 27-Sep-07 Elapse: 43:27 1836
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1798 > 1861 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

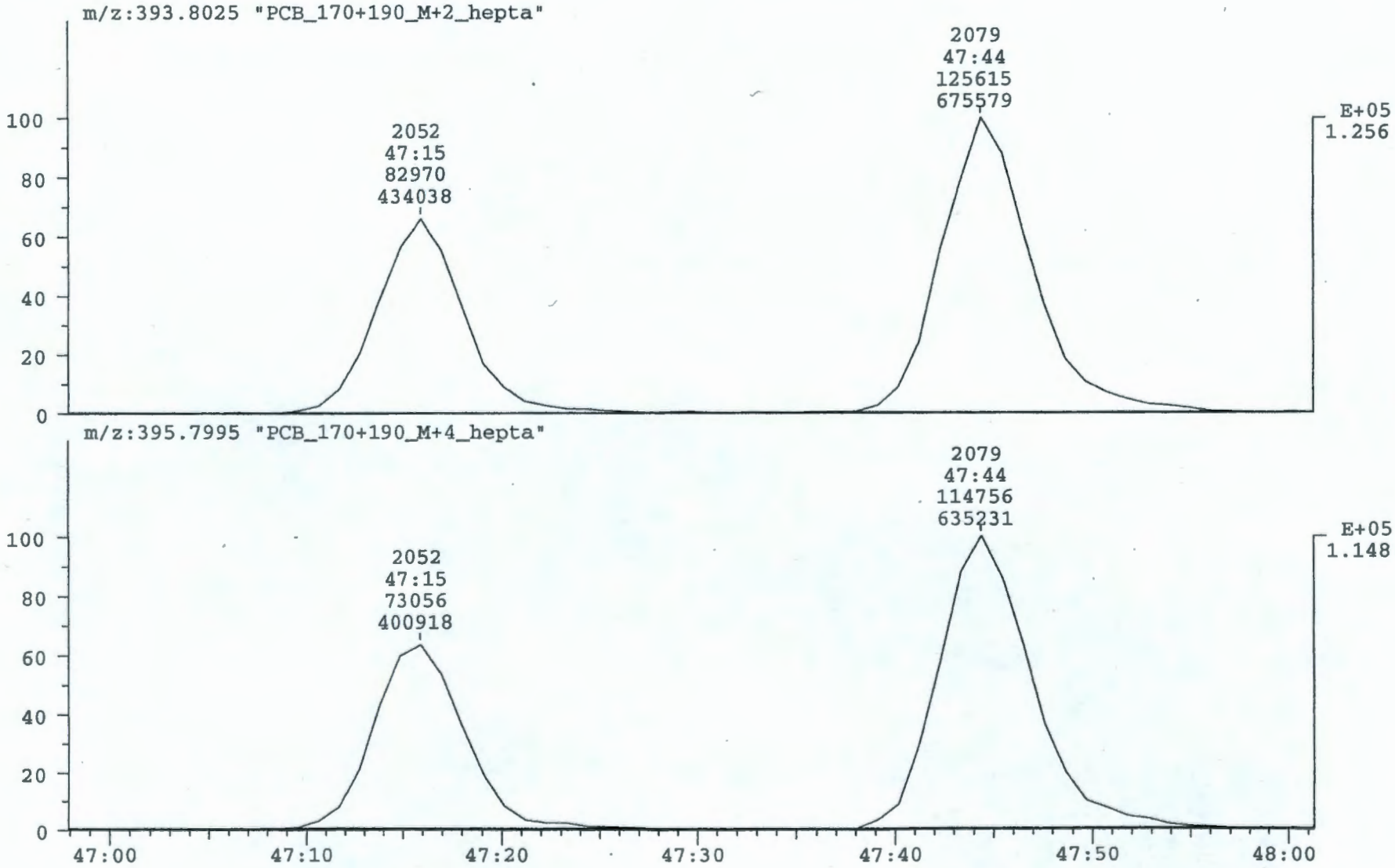


CHRO: a070927s2 27-Sep-07 Elapse: 45:55 1976
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1926 > 2011 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

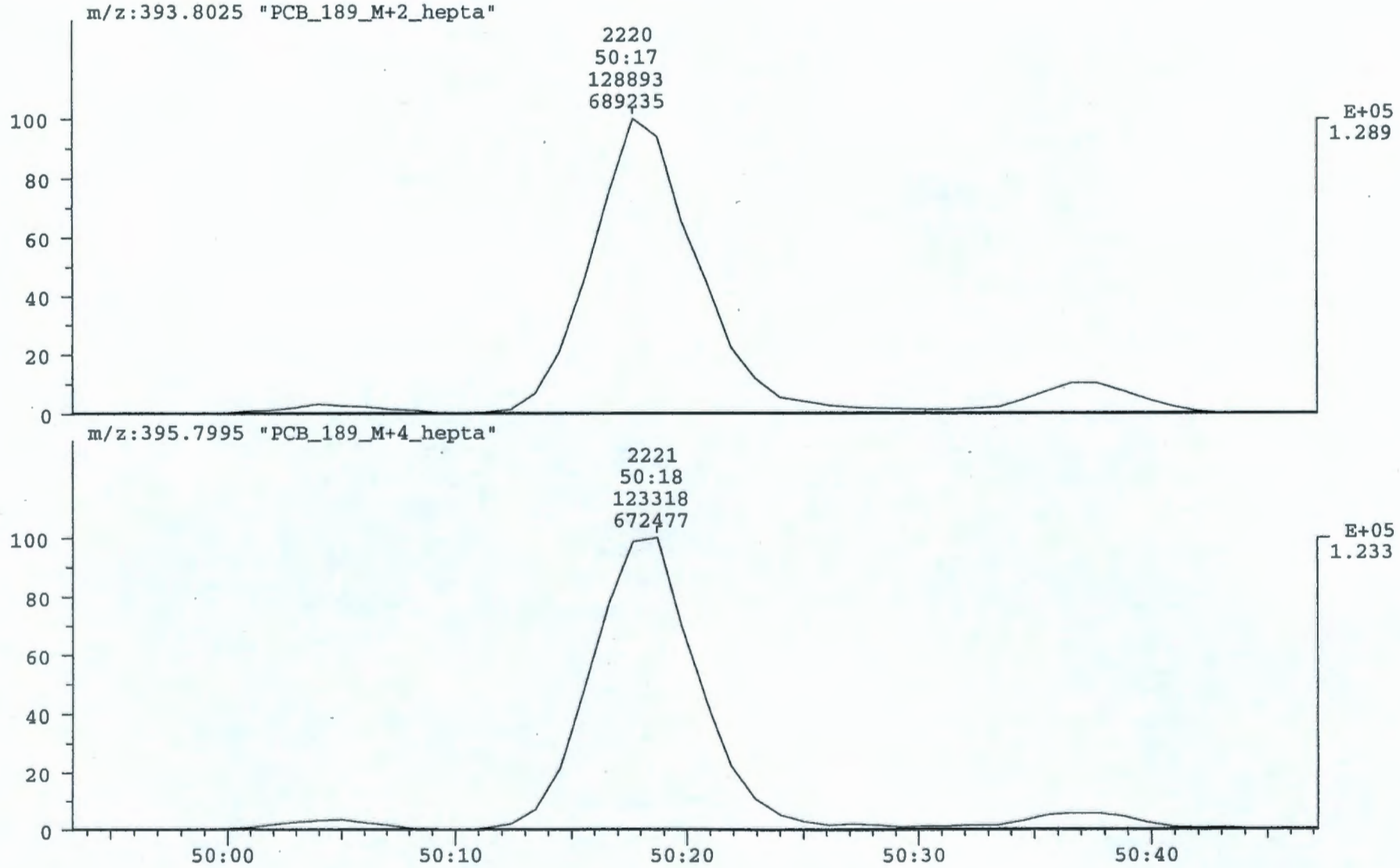


2322

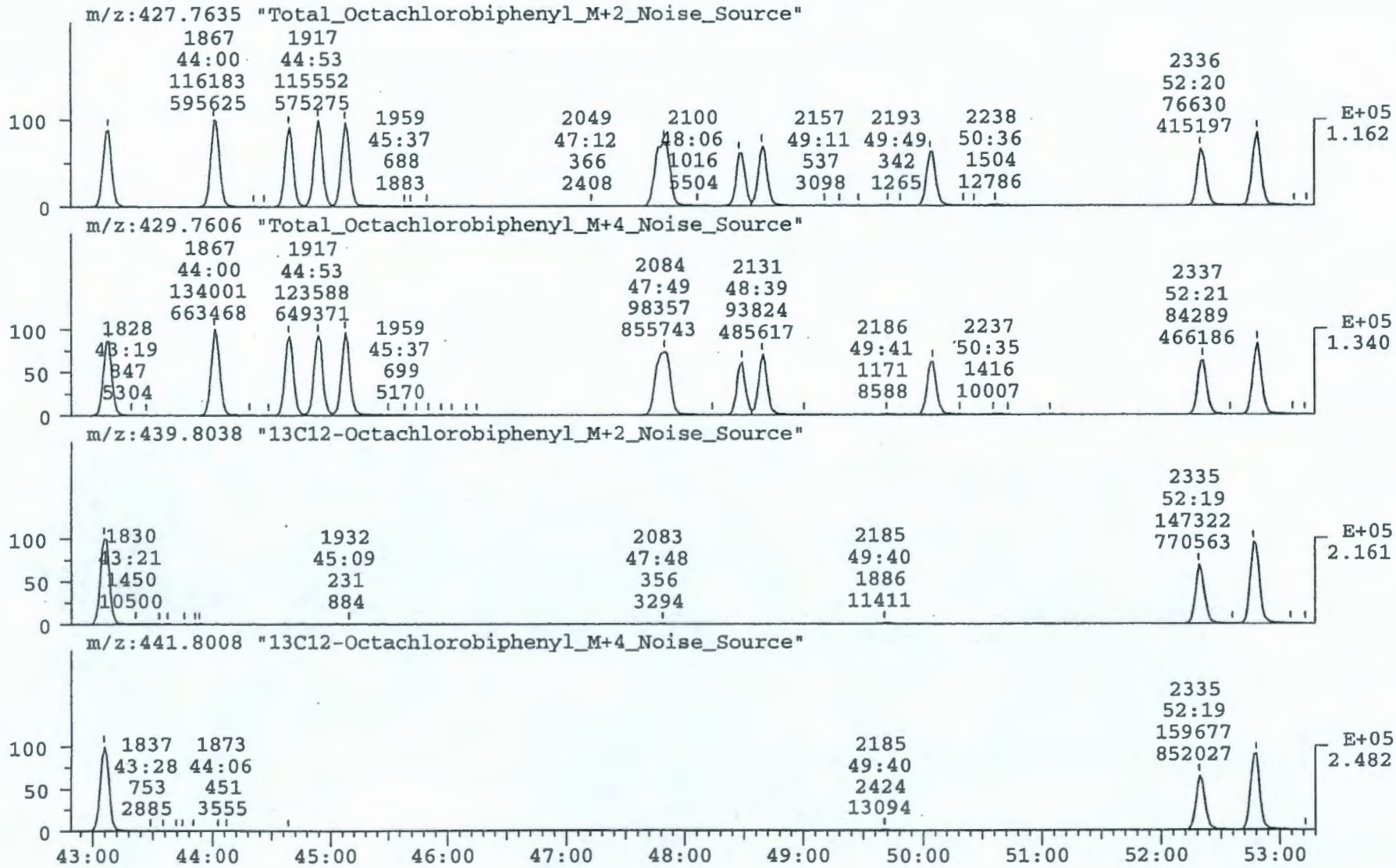
CHRO: a070927s2 27-Sep-07 Elapse: 47:34 2070
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 2035 > 2095 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



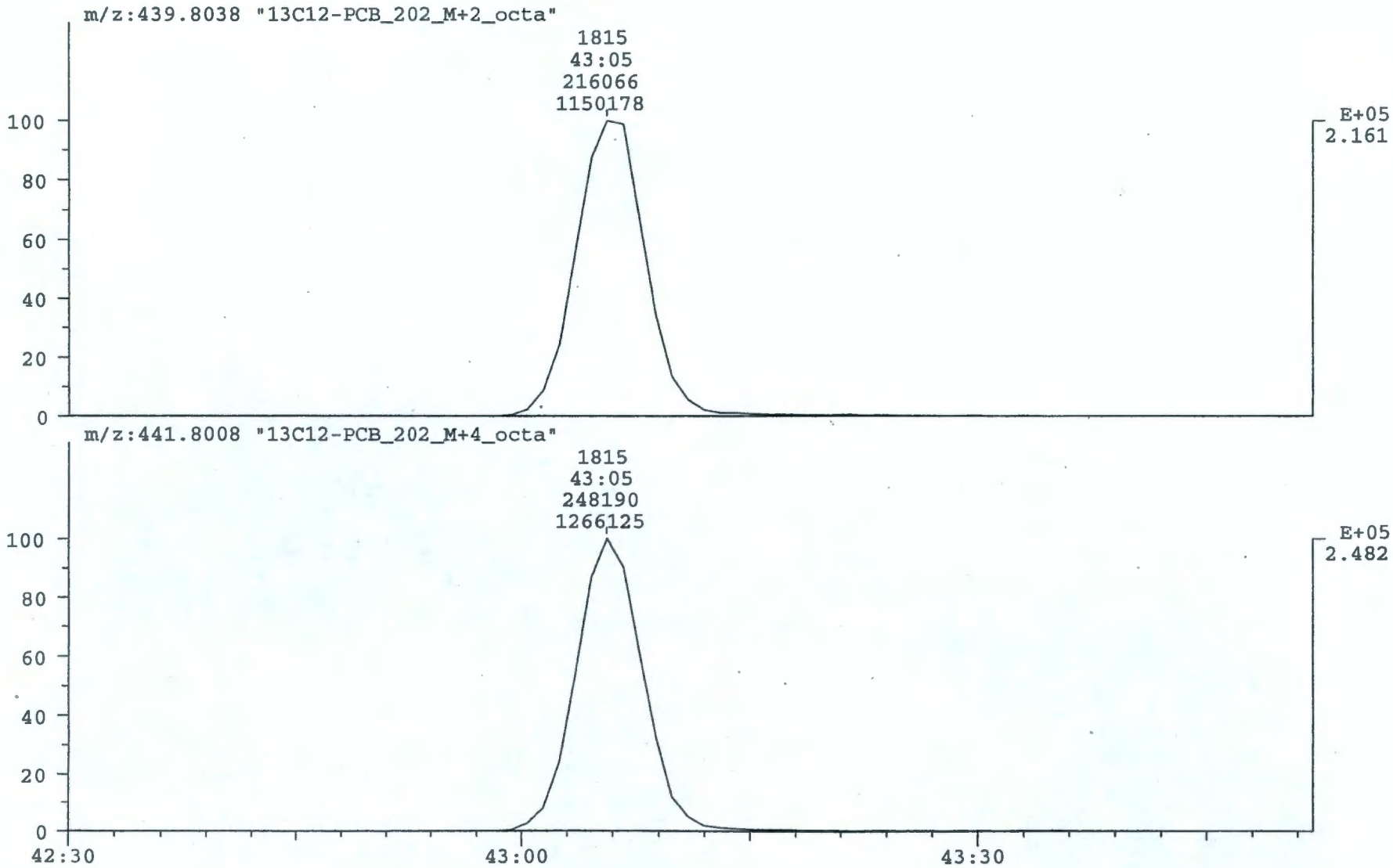
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  50:18      2221
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   2197 > 2248          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



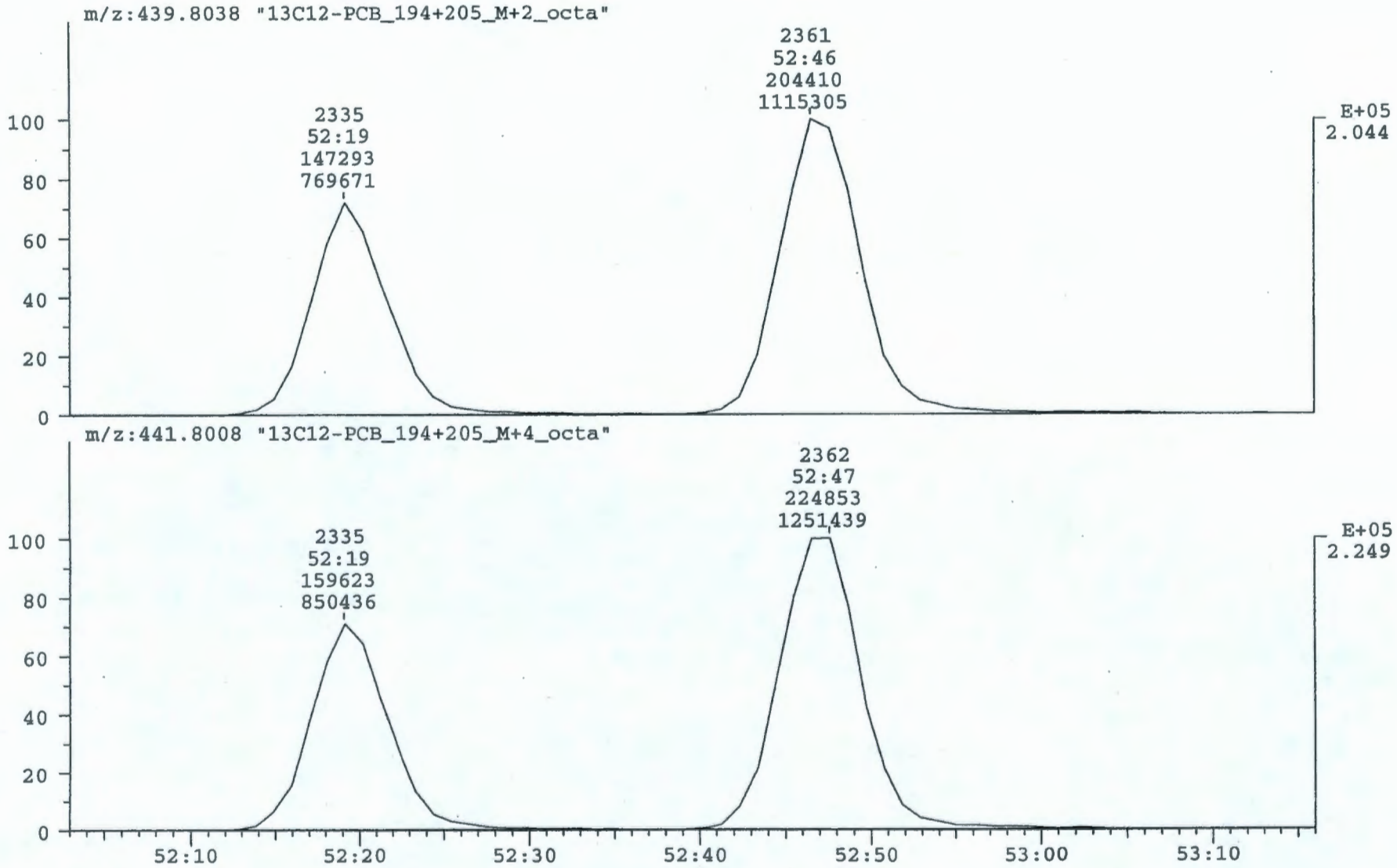
CHRO: a070927s2 27-Sep-07 Elapse: 48:03 2097
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1799 > 2391 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



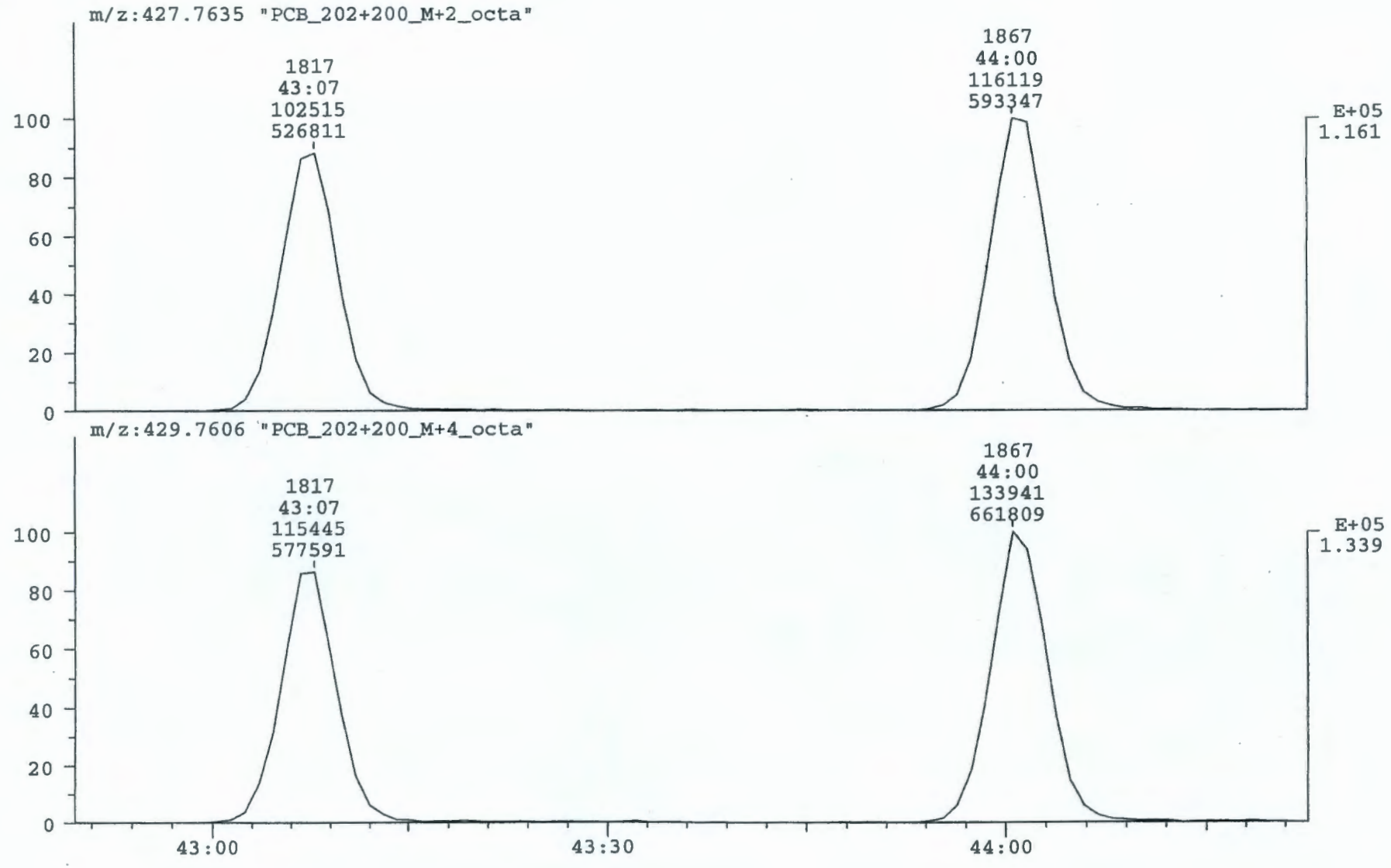
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  43:07      1817
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm    Label wndw:   1781 > 1859            Masses:  181 > 510
Area:  5, 0.50, 15    Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a070927s2 27-Sep-07 Elapse: 52:39 2354
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Çcal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 2320 > 2389 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

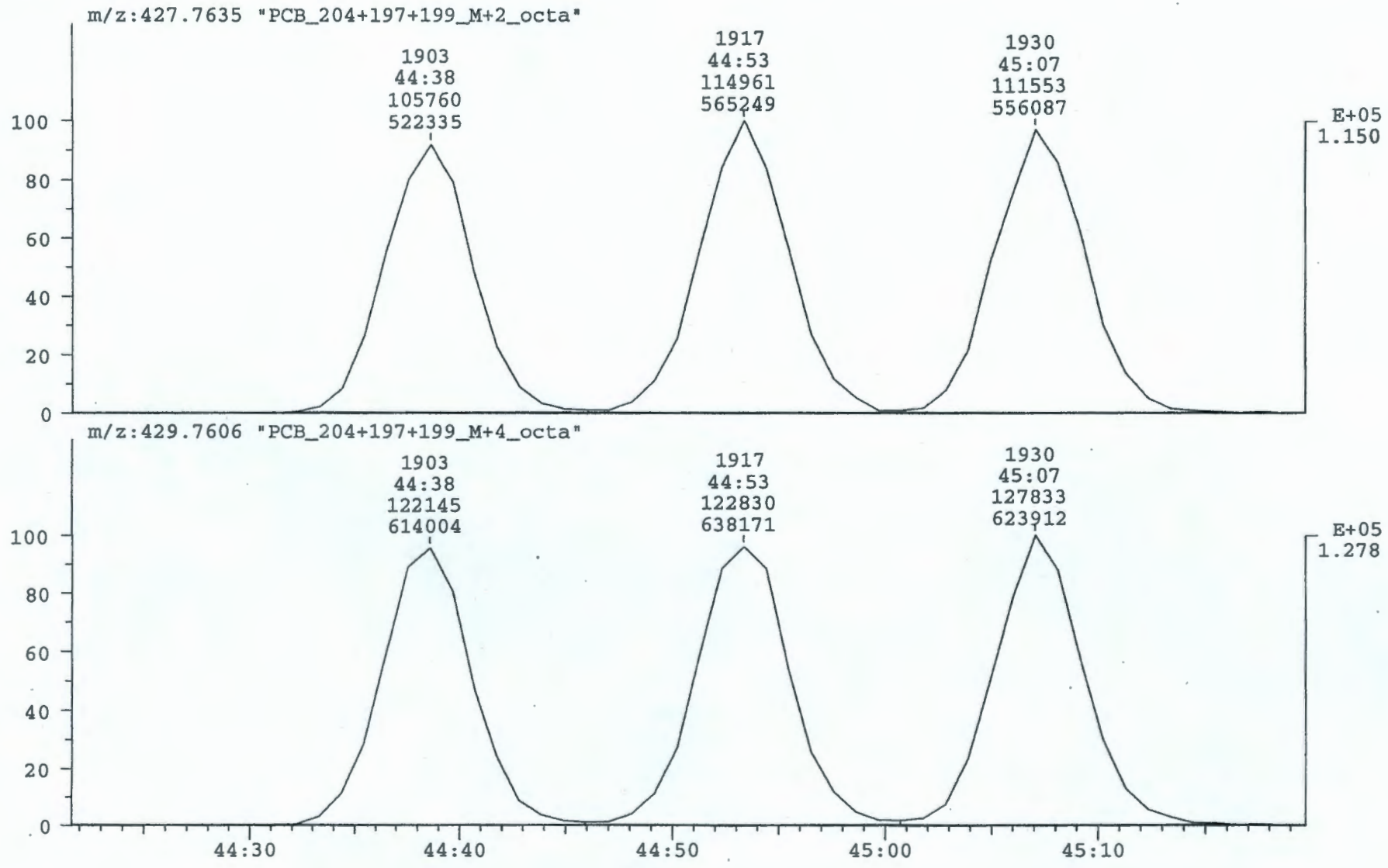


```
CHRO:  a070927s2                                27-Sep-07  Elapse:  43:40      1848
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1800 > 1888          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

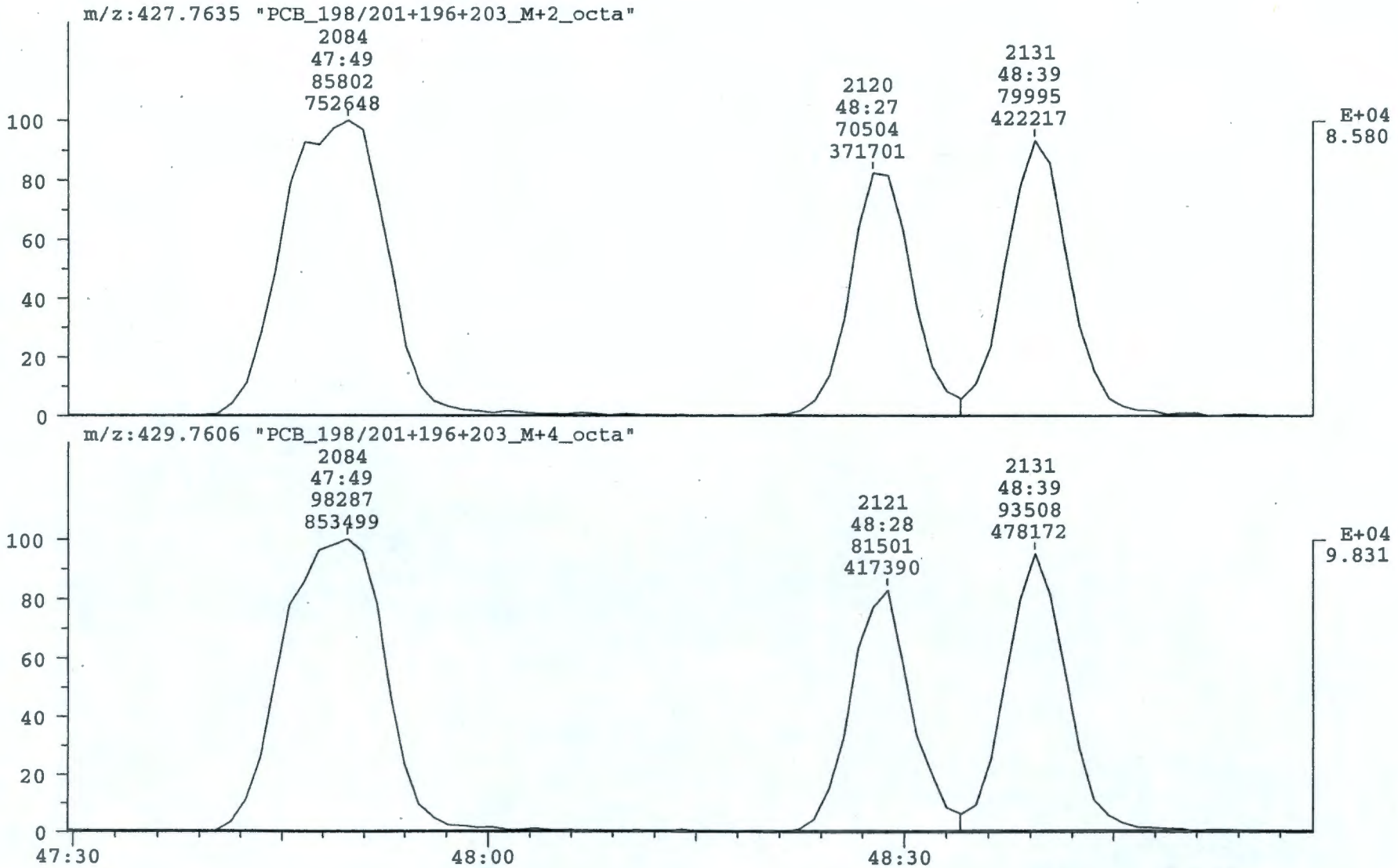


2328

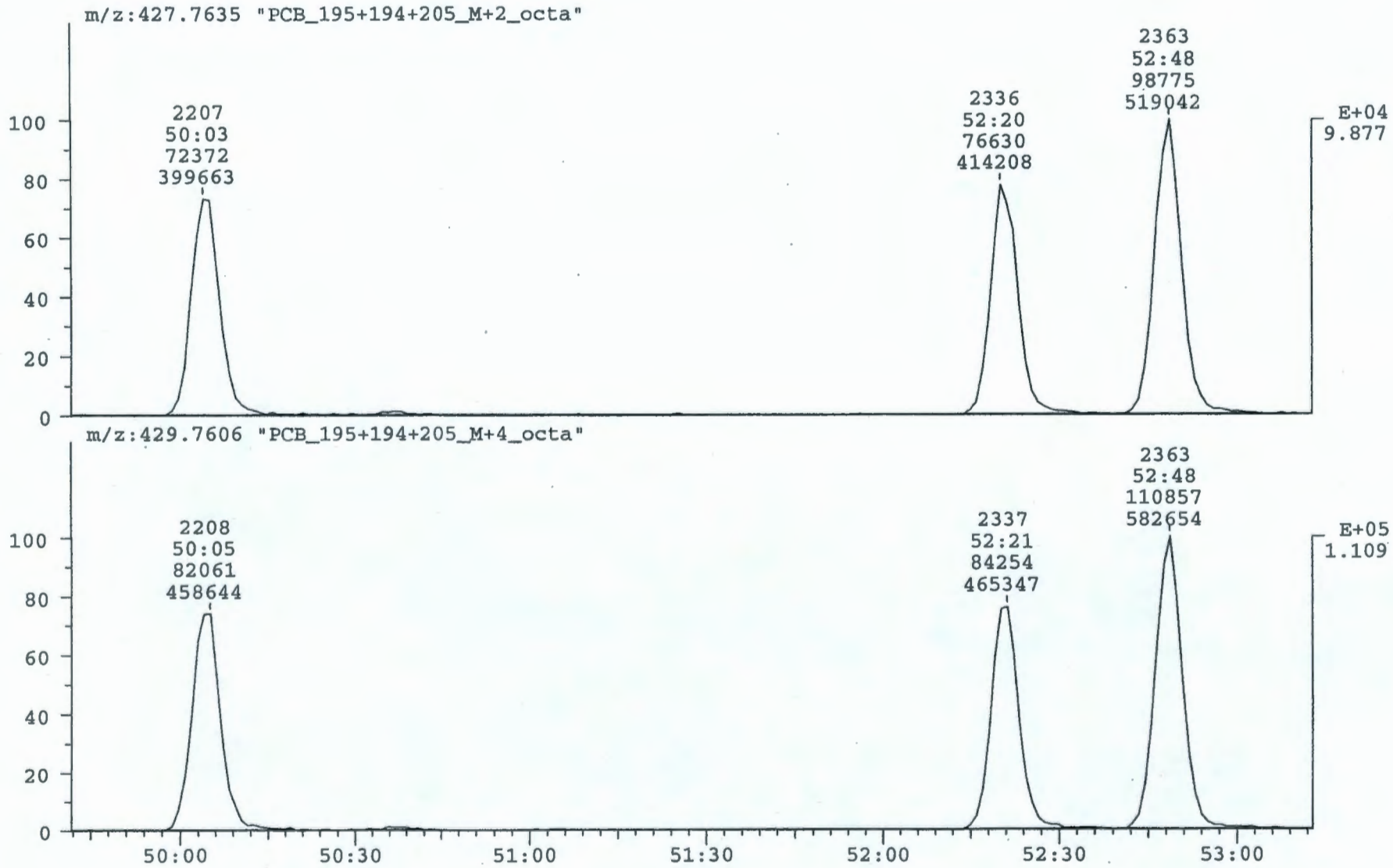
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  44:42      1907
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1887 > 1942          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



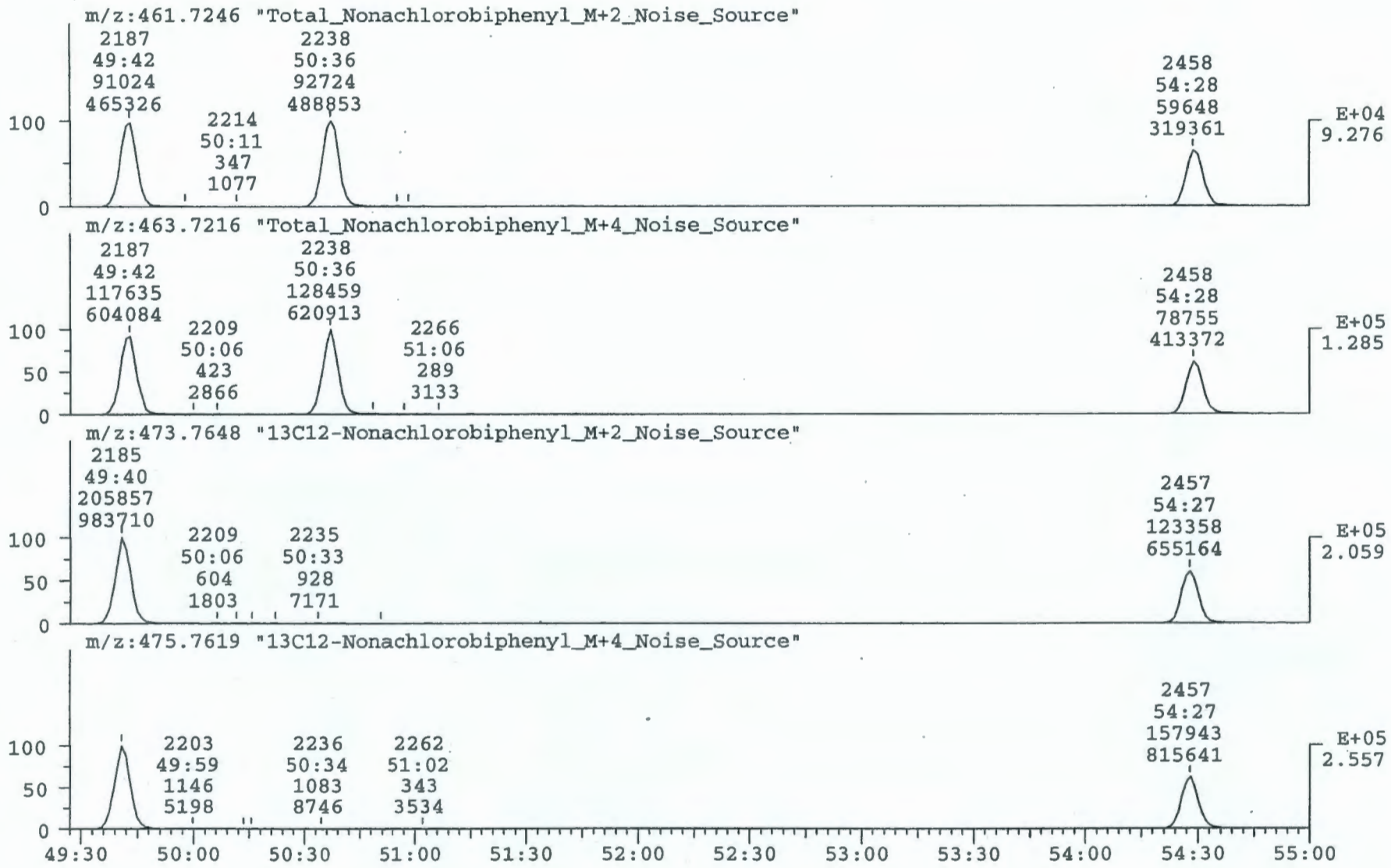
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  48:33      2125
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   2065 > 2150           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



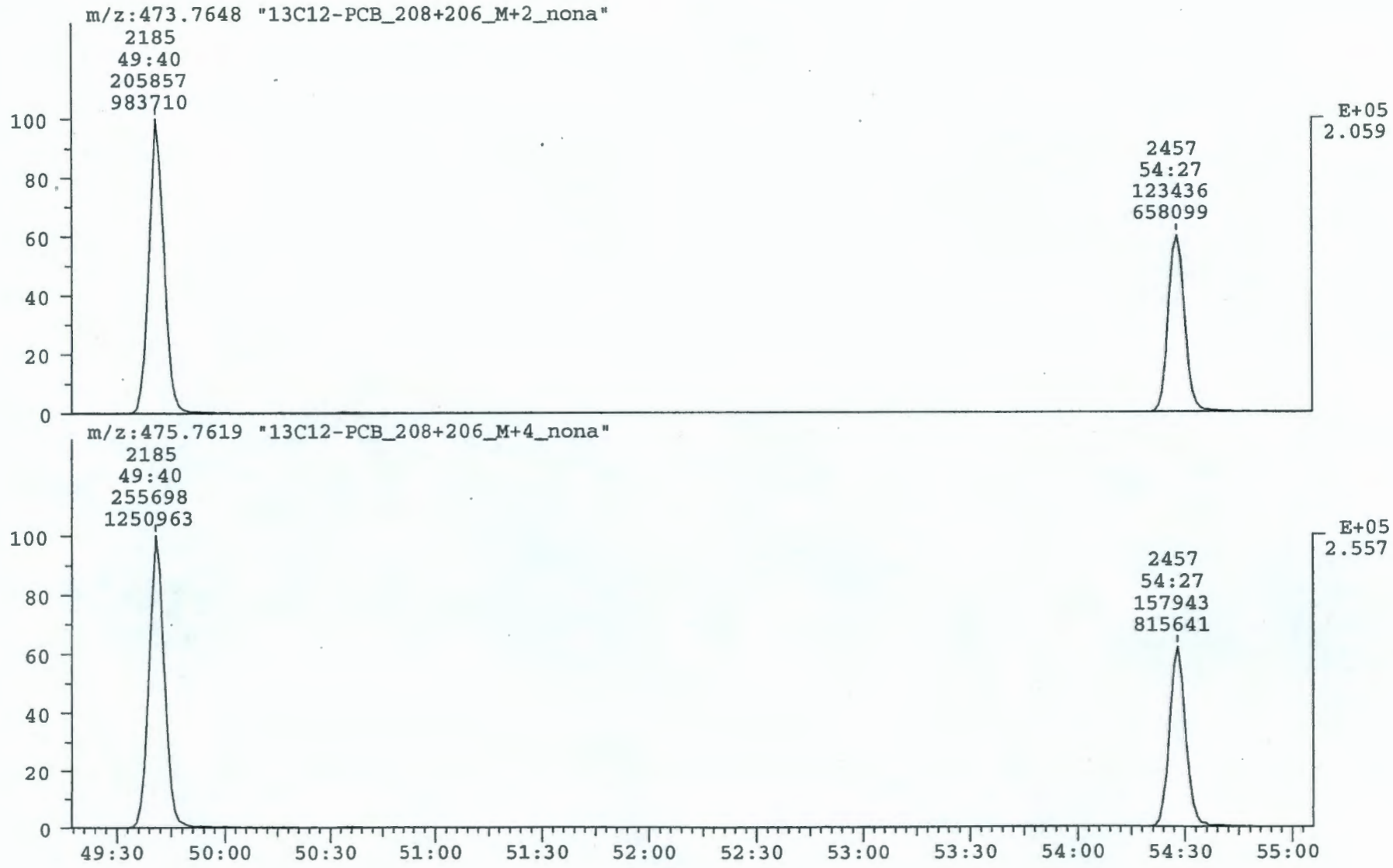
CHRO: a070927s2 27-Sep-07 Elapse: 52:25 2341
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 2186 > 2386 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



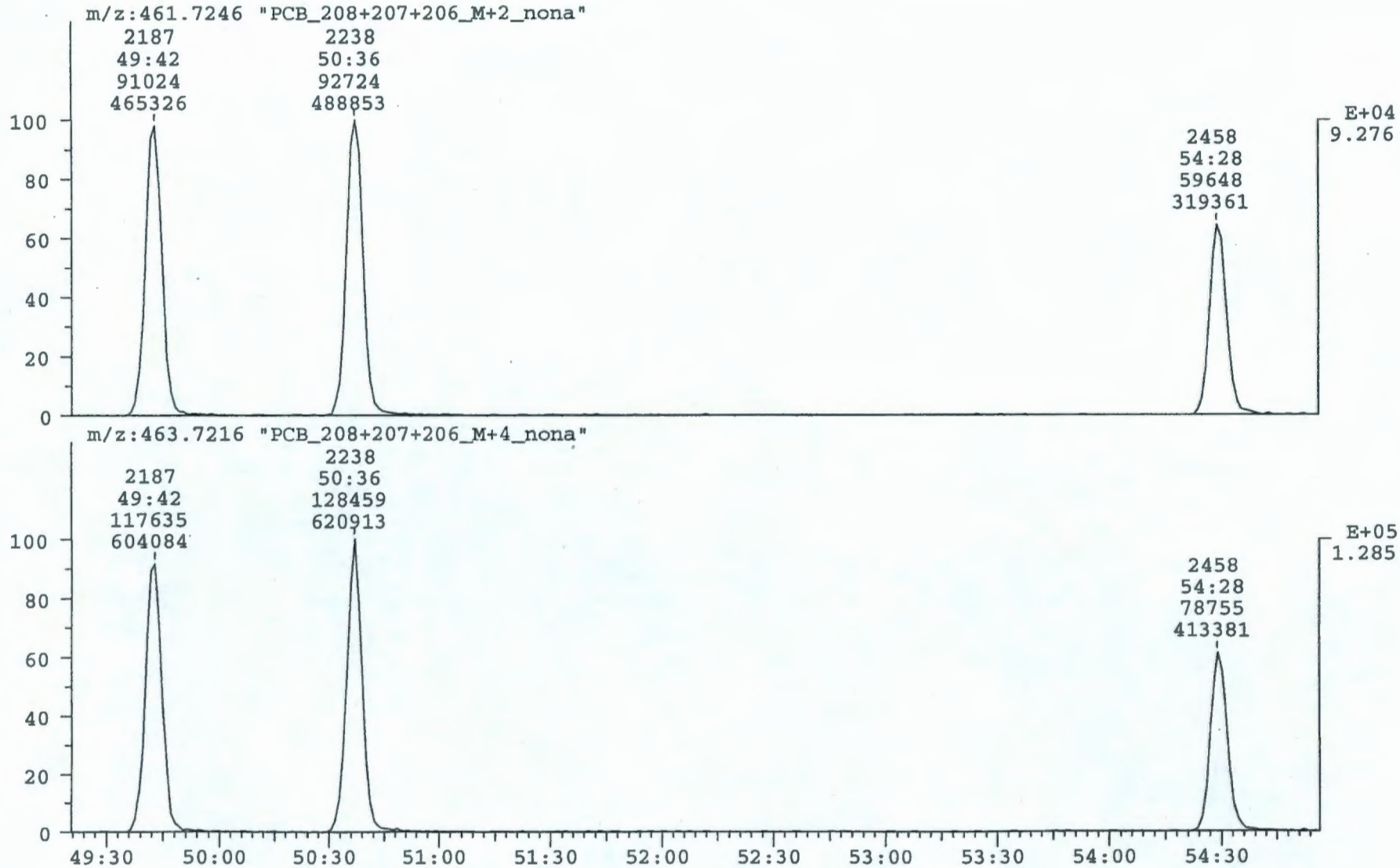
CHRO: a070927s2 27-Sep-07 Elapse: 52:12 2329
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 22:14:43 2602
Comm: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: PMP Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 2172 > 2487 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



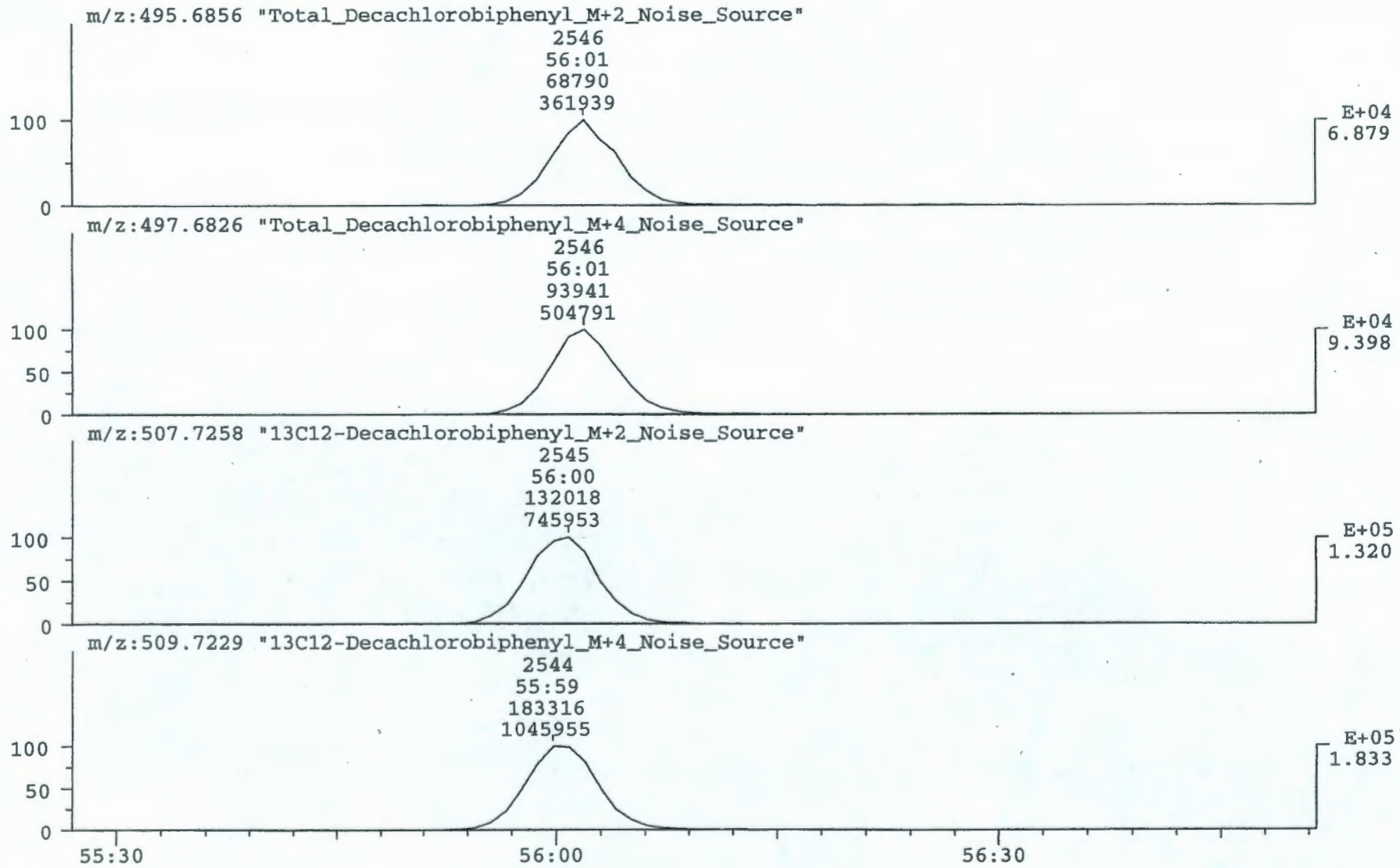
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  52:11      2328
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   2163 > 2493           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



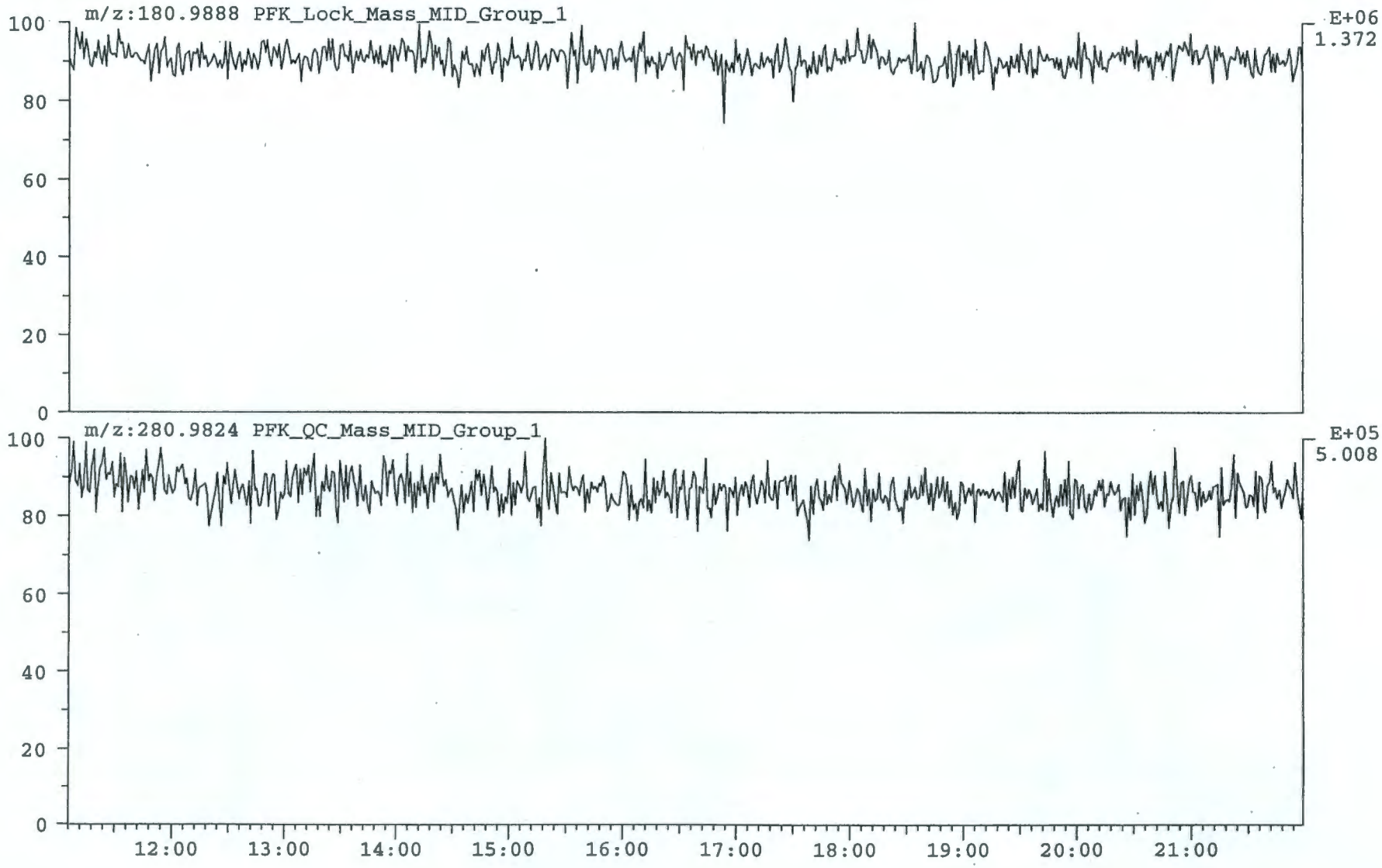
```
CHRO:  a070927s2                                27-Sep-07  Elapse:  52:12      2329
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=mld/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   2166 > 2484          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a070927s2                                27-Sep-07   Elapse:  56:12      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   2513 > 2593           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

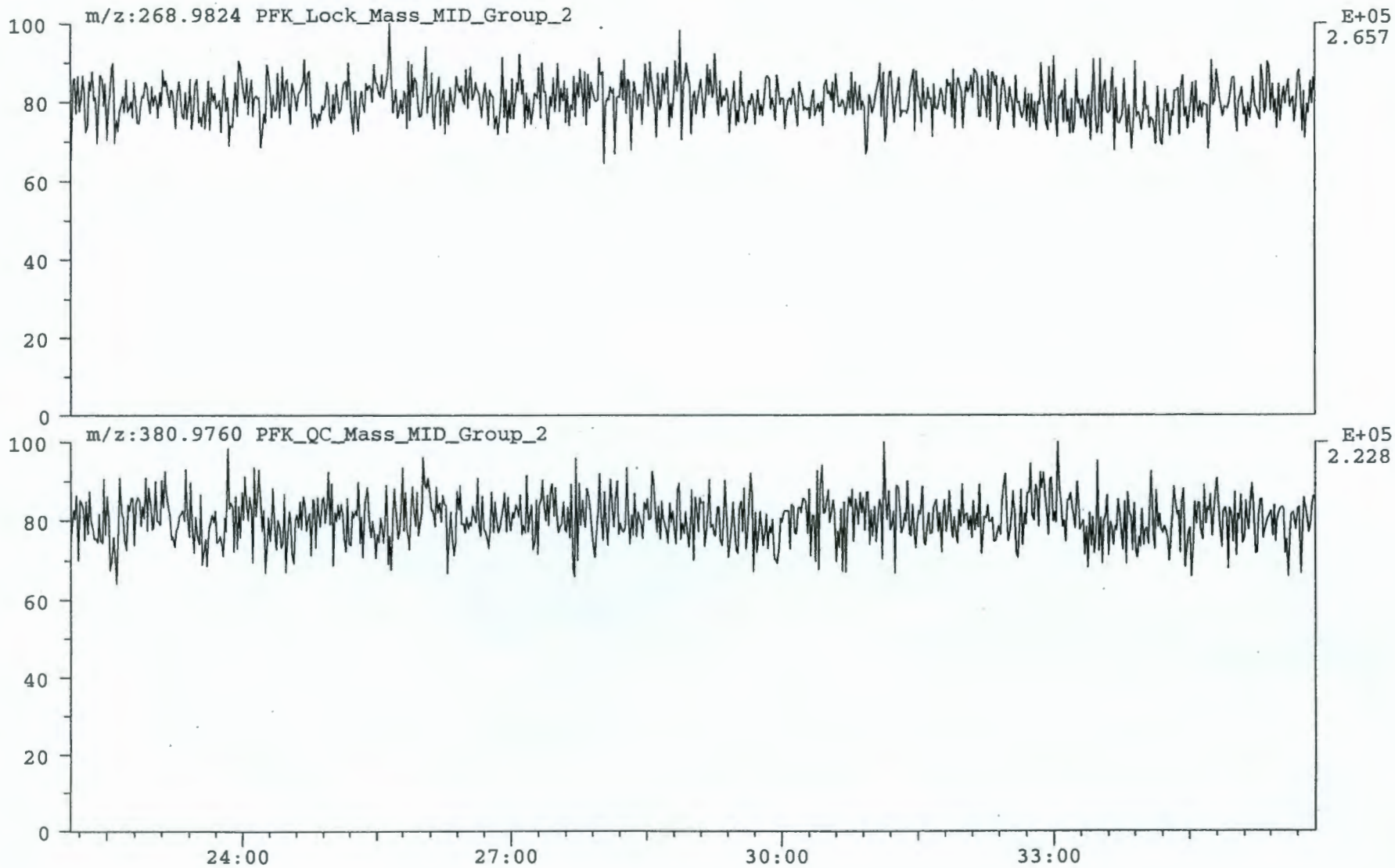


```
CHRO:  a070927s2                                27-Sep-07  Elapse:  56:12      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   6 > 624               Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  0, 0.0
Disp:  Height  Area
```

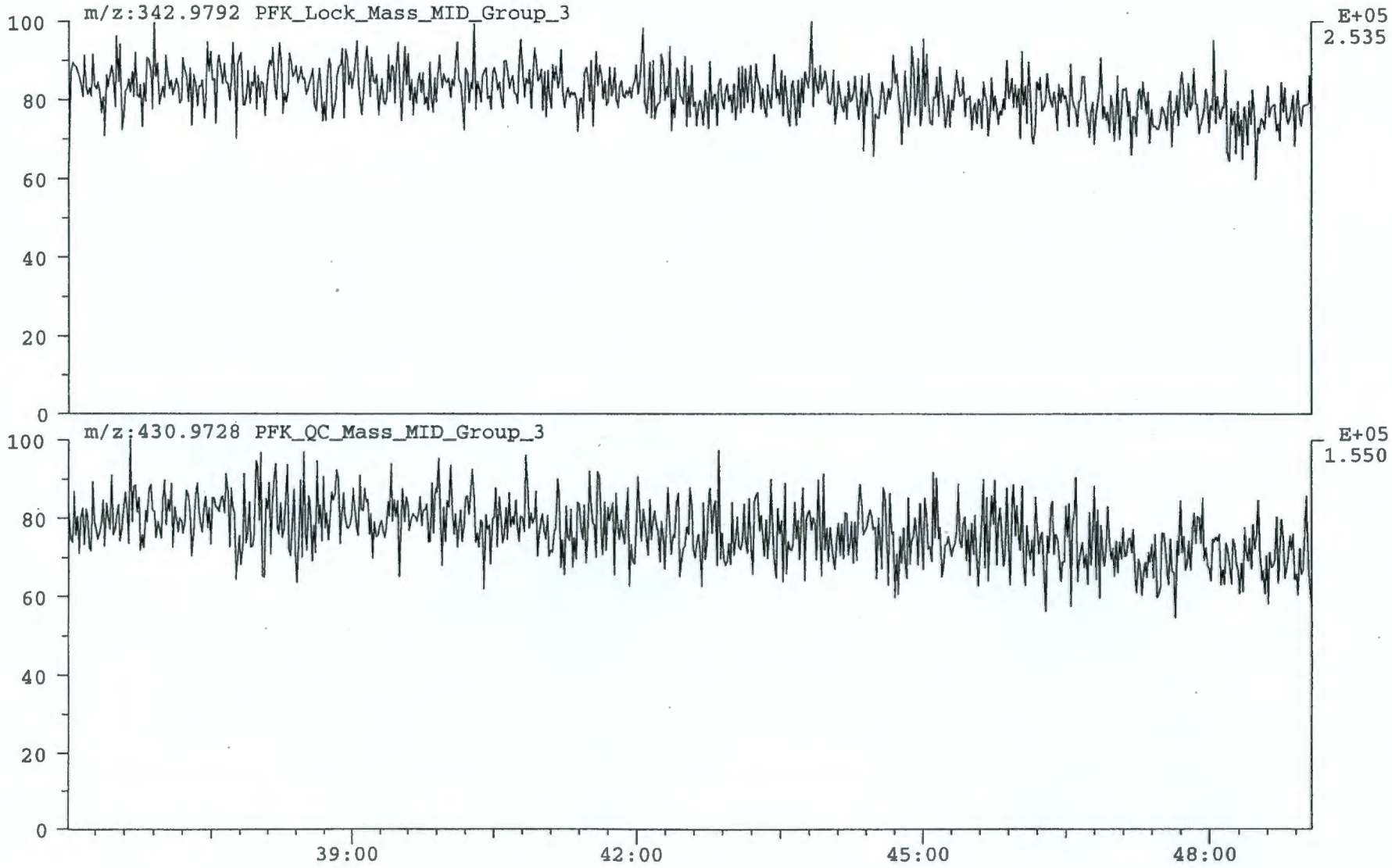


2336

```
CHRO:  a070927s2                                27-Sep-07   Elapse:  56:12      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   627 > 1410            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  0, 0.0
Disp:  Height  Area
```

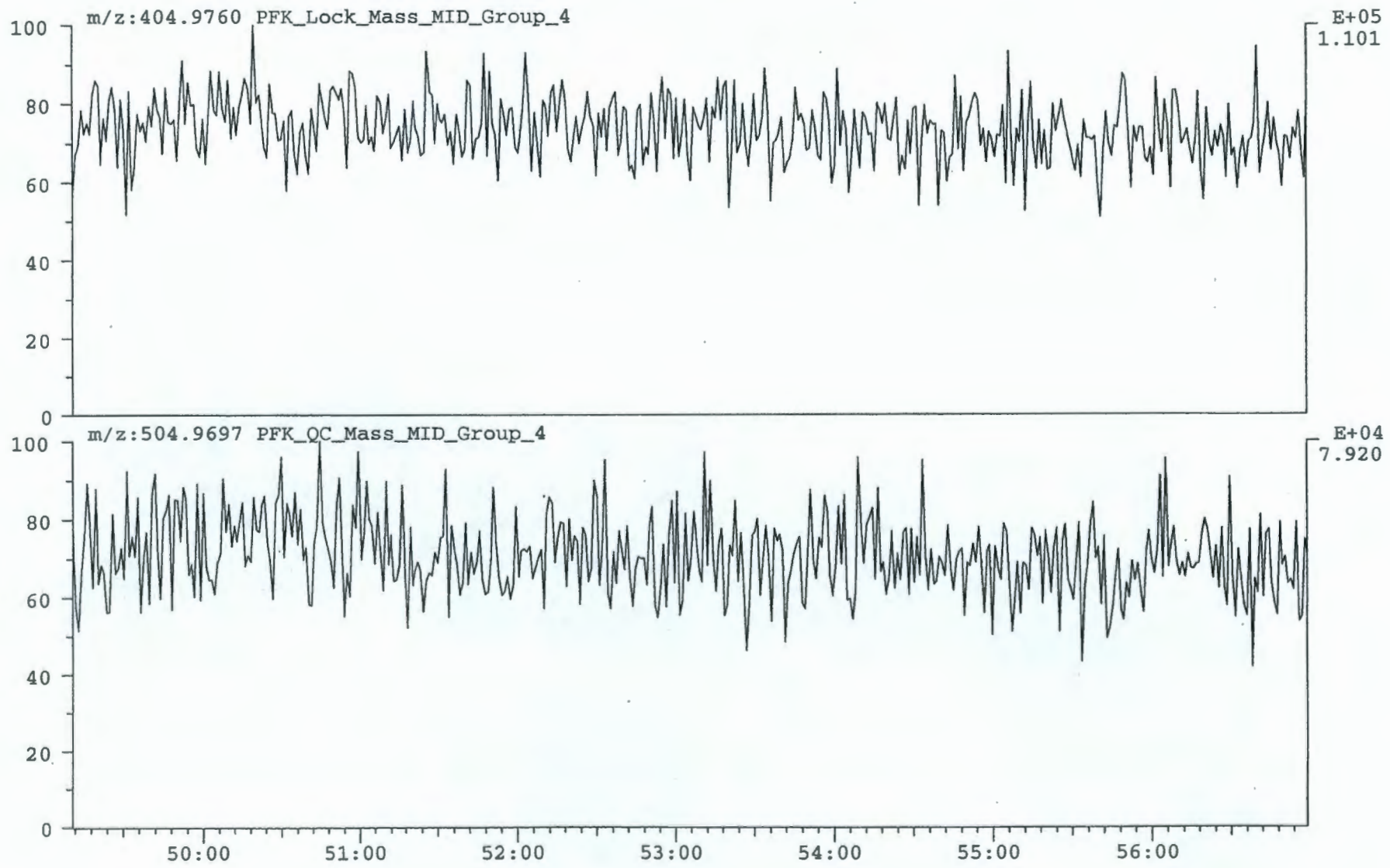


```
CHRO:  a070927s2                              27-Sep-07  Elapse:  56:12      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                  Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  1668 Ver
Oper:  PMP          Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1413 > 2154         Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :  0, 0.0
Disp:  Height  Area
```



2338

```
CHRO:  a070927s2                                27-Sep-07   Elapse:  56:12      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  22:14:43   2602
Comm:  Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  PMP            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2157 > 2600           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  0, 0.0
Disp:  Height  Area
```



Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a070927s2
Study: 1668 Ver
Sample: WO=2990:71 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: PMP
Client: TA Knoxville
Comments: Inst=m1d/35055-03a Batch=20070927s2 Ccal=20070313i
Injected volume: 2.00
Sample from Vial 1
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 1 of list 070927
ICL procedure: sleep7x
MID procedure: epa1668

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:00 min	13:55 min	35:55 min	1.00 sec
# 3	35:55 min	13:10 min	49:05 min	1.00 sec
# 4	49:05 min	7:55 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	1	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	l	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	l	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	1	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
- Purge time 1.5 min
- Purge flow 40.0 ml/min
- Gas saver is on
- Saver time 3.0 min
- Saver flow 15.0 ml/min

Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1034.0919
BMASS	404.9760	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.6235
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-13.4250
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9992
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0003
EDACR	23.0000	EDACZ	-2380.0000	ELEN	56.3500
EMULT	2.3000	ENS	166.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	148.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	600.9615	FSLOPE	54000000.0000	FVANAL	309.0000
FVINLET	288.0000	FVSRC	958.0000	FWIN	0.7000
GCTC	75.0000	GCTI	270.0000	GCTL	280.0000
HACCU	156.0000	HCURR	1.4510	HVANAL	1361.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4774.1100	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1402.0000	LENSS	85.6000
LKM	442.9728	LM	800.0000	LMASS	404.9760
LMII	500.0000	MASS	404.9760	MDAC	4475821.3936

MDACR	23.0000	MRANGE	1034.0919	MSFM	2.0000
MSLM	3790.0000	NPEAK	200.0000	NSAM	200.0000
NSCAN	4966.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-6.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10531.7956	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	2.0000	SCIDLE	1.0000	SHIELD	2456.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.8200	TCURR	0.8594
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	1.9500	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	404.9760	XLENS	2613.0000
XLENSS	-16.4000	YLENS	3700.0000	YLENSS	22.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 27-Sep-07 22:14:43.2

Autosampler has injected sample from vial 1
MID Time Window 1: Resolution is 9049
MID Time Window 2: Resolution is 8406
MID Time Window 3: Resolution is 8573
MID Time Window 4: Resolution is 8803
Analysis stopped at: 27-Sep-07 23:11:46.5 (run time 57.04 minutes)
Analysis stopped because MID run finished

TA Knoxville Specialty Organics Group GC/MS Continuing Calibration Data Review Checklist
Method or SOP Number: KNOX-ID-0013 Revision 5

Start PFK:	11:59	End PFK:	22:24	CS3 Filename:	A070928S1	Inst:	95	ICAL Date:	03-13-07

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?		✓			✓
2. Was the instrument resolution ≥8,000 throughout and ≥ 10,000 in the center of each m/z range. PFK m/z 192.9888, *230.9856, and *280.9824? PFK m/z 268.9824, *292.9824, and *380.9760? PFK m/z 342.9792, *380.9760, and *430.9728? PFK m/z 404.9760, *442.9728, and *530.9665?		✓			✓
3. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Were the MID switchpoints set to encompass the retention time windows of each congener group?		✓			✓
6. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187		✓			✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		✓			✓
8. Were the %D for all toxic analytes within ± 30% (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Were the %D for all LOC analytes within ± 30% (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		✓			✓
9. Were the %D for all non-toxic/non-LOC analytes within ± 30%?		✓			✓
10. If the %D for any non-toxic/non-LOC was not within ± 30, were response factors calculated from the continuing calibration for all non-toxic/non-LOC analytes with a %D greater than ± 30% but within ± 60%.	✓				✓
11. Were the response factors calculated for each labeled standard and unlabeled native analyte using the SOP specified reference compound, quantitation ions, and formula.		✓			✓
12. Were the absolute retention times of all labeled internal standards within ± 15 seconds of the retention times obtained during initial calibration?		✓			✓
13. Are %D within ± 50% for all labeled internal standards in the calibration?		✓			✓
14. Are the %D within ± 30% for all labeled surrogate standards in the calibration.		✓			✓
15. Are the %D within -40/+30% for all labeled cleanup standards in the calibration?		✓			✓
16. Are all S/N ratios ≥10 for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		✓			✓
17. Are RRTs of all unlabled toxic/LOC analytes within their respective RRT limits?		✓			✓
18. If PCB 156 and 157 were classified as uniquely resolved in the most recent initial calibration, was the valley between the two less than or equal to the 50% of the height of the shorter of the two peaks?	✓				✓
19. Are the ion abundance ratios for all labeled and unlabeled analytes within the specified control limits?		✓			✓
20. If manual integrations were performed, are they clearly identified, initialed and dated?	✓				✓
21. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				✓
22. Does the CCAL folder contain **complete** data in the following order? Data review checklist, a **complete** runlog, CCAL summary, Ratio summary, Calculation summary, PFK resolution/peak match documentation (HRMS only), and Total RIC, EICP's and manual integration - for window and both standards.		✓			✓

Analyst: BJW	Date: 9/28/07	2nd Level Reviewer : PMD	Date: 9-28-07
Comments:		Comments:	

*At reduced accelerating voltage

STL KNOXVILLE
SPECIALTY ORGANICS INSTRUMENT MAT 95 RUN LOG

Date	Time	Opr	Sample ID	Filename	Code	Matrix	Type	Tape	Lot#/Comments
9-27-07	22:02	PMP	PFK	—	OK	—	Res		Mass Res
9-27-07	22:14	PMP	2990:71	20070927s2	OK	—	Ver		
9-27-07	23:14	PMP	Nonane	spbr	OK	—	QC		flush
9-27-07	23:29	PMP	↓	spbr	OK	—	QC		↓
9-27-07	23:55	PMP	↓	spbr	OK	—	QC		↓
9-28-07	01:40	PMP	J7CITIAA	apj7citba	~~IF~~	BIOL	QC		System Blank
9-28-07	—	PMP	J64JQIAA	apj64jq	~~IF~~ DR	BIOL	SAM		H7I180256-001
9-28-07	—	PMP	J64JQIAC	apj64jqx	DR	BIOL	SAM		-001 PMP
9-28-07	—	PMP	J64JXIAA	apj64jx	DR	BIOL	SAM		-002
9-28-07	—	PMP	J64JXIAC	apj64jxs	DR	BIOL	QC		-002S
9-28-07	—	PMP	J64JXIAD	apj64jxd	DR	BIOL	QC		-002D
9-28-07	—	PMP	Nonane	spbr	DR	—	QC		flush
9-28-07	08:29	PMP	↓	spbr	OK	—	QC		↓
9-28-07	08:45	PMP	J7CITIAC	apj7citc	OK	BIOL	QC		H7I210000-161C
9/28/07	09:47	DCG	PFK	—	OK	—	Res		Mass Res Check
9/28/07	11:59	DCG	PFK	—	OK	—	Res		Mass Res Check
9/28/07	12:05	DCG	2990:71 CS3	a07092851	OK	—	Ver		1668 Ver
9/28/07	13:05	DCG	Nonane	spbr	OK	—	QC		Flush
9/28/07	13:20	DCG	↓	spbr	OK	—	QC		↓
9/28/07	13:37	DCG	J7CITIAA	apj7citba	OK	BIOL	QC		Sys. Blank
9/28/07	14:38	DCG	J6VFMIAA	apj6vfma	1/10 OE	H2O	SAM		H7I140194-002
9/28/07	15:38	DCG	Nonane	spbr	OK	—	QC		Flush
9/28/07	15:55	DCG	J64JQIAA	apj64jq	OK	BIOL	SAM		H7I180256-001
9/28/07	18:13	DCG	J64JQIAC	apj64jqx	OK	BIOL	SAM		-001X
9/28/07	19:15	DCG	J64JXIAA	apj64jx	OK	BIOL	SAM		-002
9/28/07	20:17	DCG	J64JXIAC	apj64jxs	OK	BIOL	SAM		-002S
9/28/07	21:18	DCG	J64JXIAD	apj64jxd	OK	BIOL	SAM		-002D
9/28/07	16:57	DCG	J6VFMIAA 1/10	apj6vfm	OK	H2O	SAM		H7I140194-002
9/28/07	17:57	DCG	Nonane	spbr	OK	—	QC		Flush
9-28-07	2224	PMP	PFK	—	OK	—	Res		Mass Res Chk

Read and Understood by:

PMP Date: 9-28-07

STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1
ICAL Date: 03/13/07
CCAL Filename: a070928s1
Method: IE3 - IE3
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070928s1/a070928s1.d
Column SN: 35055-03A
CCAL Date/Time: 09/28/07 12:05
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
I 13C12-PCB 1			M/M+2	3.12	2.66-3.60	1.318	1.190	-9.7	100	90	50-150	True
I 13C12-PCB 3			M/M+2	3.21	2.66-3.60	1.325	1.187	-10.5	100	90	50-150	True
PCB 1 (BZ)	L		M/M+2	3.17	2.66-3.60	1.253	1.081	-13.7	50	43	35-65	True
PCB 2 (BZ)			M/M+2	3.17	2.66-3.60	1.226	1.026	-16.4	50	42	35-65	True
PCB 3 (BZ)	L		M/M+2	3.25	2.66-3.60	1.348	1.105	-18.1	50	41	35-65	True
I 13C12-PCB 4			M/M+2	1.60	1.33-1.79	0.615	0.605	-1.6	100	98	50-150	True
R 13C12-PCB 9			M/M+2	1.62	1.33-1.79	1.000	1.000	0.0	100	100	-	
S 13C12-PCB 8			M/M+2	1.58	1.33-1.79	1.332	1.274	-4.4	50	48	35-65	True
I 13C12-PCB 15			M/M+2	1.62	1.33-1.79	1.065	1.002	-5.9	100	94	50-150	True
PCB 4 (BZ)	L		M/M+2	1.55	1.33-1.79	1.212	1.081	-10.8	50	45	35-65	True
PCB 10 (BZ)			M/M+2	1.61	1.33-1.79	1.326	1.270	-4.2	50	48	35-65	True
PCB 9 (BZ)			M/M+2	1.60	1.33-1.79	1.445	1.337	-7.5	50	46	35-65	True
PCB 7 (BZ)			M/M+2	1.62	1.33-1.79	1.432	1.441	0.7	50	50	35-65	True
PCB 6 (BZ)			M/M+2	1.62	1.33-1.79	1.450	1.361	-6.2	50	47	35-65	True
PCB 5 (BZ)			M/M+2	1.62	1.33-1.79	1.356	1.188	-12.4	50	44	35-65	True
PCB 8 (BZ)			M/M+2	1.61	1.33-1.79	1.477	1.339	-9.4	50	45	35-65	True
PCB 14 (BZ)			M/M+2	1.57	1.33-1.79	1.687	1.549	-8.2	50	46	35-65	True
PCB 11 (BZ)			M/M+2	1.62	1.33-1.79	1.448	1.288	-11.0	50	44	35-65	True
PCB 13 (BZ)		C12	M/M+2	1.59	1.33-1.79	1.454	1.278	-12.1	100 a	88	70-130	True
PCB 12 (BZ)		C12	M/M+2		1.33-1.79	1.454		0.0	100 a	88	70-130	C12
PCB 15 (BZ)	L		M/M+2	1.62	1.33-1.79	1.233	1.048	-15.0	50	43	35-65	True
I 13C12-PCB 19			M/M+2	1.07	0.88-1.20	0.558	0.618	10.8	100	111	50-150	True
R 13C12-PCB 32			M/M+2	1.10	0.88-1.20	1.000	1.000	0.0	100	100	-	
R 13C12-PCB 31			M/M+2	1.06	0.88-1.20	1.000	1.000	0.0	100	100	-	
C 13C12-PCB 28			M/M+2	1.04	0.88-1.20	0.968	1.065	10.0	50	55	35-65 b	True
I 13C12-PCB 37			M/M+2	1.06	0.88-1.20	0.885	0.921	4.0	100	104	50-150	True
PCB 19 (BZ)	L		M/M+2	1.07	0.88-1.20	1.178	1.200	1.9	50	51	35-65	True
PCB 30 (BZ)			M/M+2	1.05	0.88-1.20	1.874	1.808	-3.5	50	48	35-65	True
PCB 18 (BZ)			M/M+2	1.05	0.88-1.20	1.262	1.314	4.1	50	52	35-65	True
PCB 17 (BZ)			M/M+2	1.07	0.88-1.20	1.326	1.312	-1.1	50	49	35-65	True
PCB 27 (BZ)			M/M+2	1.07	0.88-1.20	1.945	1.710	-12.1	50	44	35-65	True
PCB 24 (BZ)			M/M+2	1.05	0.88-1.20	1.782	1.756	-1.5	50	49	35-65	True
PCB 16 (BZ)			M/M+2	1.06	0.88-1.20	1.157	0.996	-13.9	50	43	35-65	True
PCB 32 (BZ)			M/M+2	1.08	0.88-1.20	1.966	1.945	-1.1	50	49	35-65	True
PCB 34 (BZ)			M/M+2	1.03	0.88-1.20	1.216	1.008	-17.1	50	41	35-65	True
PCB 23 (BZ)			M/M+2	1.02	0.88-1.20	1.208	1.177	-2.5	50	49	35-65	True
PCB 29 (BZ)		C26	M/M+2	1.03	0.88-1.20	1.265	1.111	-12.2	100 a	88	70-130	True
PCB 26 (BZ)		C26	M/M+2		0.88-1.20	1.265		0.0	100 a	88	70-130	C26
PCB 25 (BZ)			M/M+2	1.03	0.88-1.20	1.362	1.237	-9.2	50	45	35-65	True
PCB 31 (BZ)			M/M+2	1.00	0.88-1.20	1.285	1.095	-14.8	50	43	35-65	True
PCB 28 (BZ)		C20	M/M+2		0.88-1.20	1.238		0.0	100 a	83	70-130	C20
PCB 20 (BZ)		C20	M/M+2	1.02	0.88-1.20	1.238	1.030	-16.8	100 a	83	70-130	True
PCB 21 (BZ)		C21	M/M+2		0.88-1.20	1.276		0.0	100 a	97	70-130	C21

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

BW 9/28/07
PMP 9-28-07

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1 **ICAL Date:** 03/13/07

CCAL Filename: a070928s1 **Method:** IE3 - IE3

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20070928s1/a070928s1.d **Column SN:** 35055-03A

CCAL Date/Time: 09/28/07 12:05 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 33 (BZ)		C21	M/M+2	1.03	0.88-1.20	1.276	1.233	-3.3	100	a	97	70-130	True
	PCB 22 (BZ)			M/M+2	1.02	0.88-1.20	1.218	1.010	-17.1	50		41	35-65	True
	PCB 36 (BZ)			M/M+2	1.03	0.88-1.20	1.286	1.192	-7.3	50		46	35-65	True
	PCB 39 (BZ)			M/M+2	1.02	0.88-1.20	1.330	1.221	-8.2	50		46	35-65	True
	PCB 38 (BZ)			M/M+2	1.00	0.88-1.20	1.246	1.070	-14.1	50		43	35-65	True
	PCB 35 (BZ)			M/M+2	0.98	0.88-1.20	1.195	1.059	-11.4	50		44	35-65	True
	PCB 37 (BZ)	L		M/M+2	1.01	0.88-1.20	1.224	1.046	-14.5	50		43	35-65	True
I	13C12-PCB 54			M/M+2	0.83	0.65-0.89	0.598	0.680	13.8	100		114	50-150	True
R	13C12-PCB 52			M/M+2	0.80	0.65-0.89	1.000	1.000	0.0	100		100	-	
S	13C12-PCB 79			M/M+2	0.80	0.65-0.89	1.089	1.067	-2.0	50		49	35-65	True
I	13C12-PCB 81			M/M+2	0.79	0.65-0.89	1.286	1.284	-0.2	100		100	50-150	True
I	13C12-PCB 77			M/M+2	0.77	0.65-0.89	1.297	1.320	1.7	100		102	50-150	True
	PCB 54 (BZ)	L		M/M+2	0.80	0.65-0.89	1.211	1.198	-1.1	50		49	35-65	True
	PCB 50 (BZ)		C50	M/M+2	0.77	0.65-0.89	0.927	0.870	-6.2	100	a	94	70-130	True
	PCB 53 (BZ)		C50	M/M+2		0.65-0.89	0.927		0.0	100	a	94	70-130	C50
	PCB 45 (BZ)		C45	M/M+2	0.78	0.65-0.89	0.857	0.821	-4.2	100	a	96	70-130	True
	PCB 51 (BZ)		C45	M/M+2		0.65-0.89	0.857		0.0	100	a	96	70-130	C45
	PCB 46 (BZ)			M/M+2	0.73	0.65-0.89	0.706	0.704	-0.3	50		50	35-65	True
	PCB 52 (BZ)			M/M+2	0.79	0.65-0.89	0.926	0.801	-13.5	50		43	35-65	True
	PCB 73 (BZ)		C43	M/M+2	0.78	0.65-0.89	0.957	0.914	-4.5	100	a	95	70-130	True
	PCB 43 (BZ)		C43	M/M+2		0.65-0.89	0.957		0.0	100	a	95	70-130	C43
	PCB 69 (BZ)			M/M+2	0.78	0.65-0.89	1.180	1.055	-10.7	50		45	35-65	True
	PCB 49 (BZ)			M/M+2	0.79	0.65-0.89	1.005	0.952	-5.3	50		47	35-65	True
	PCB 48 (BZ)			M/M+2	0.77	0.65-0.89	0.886	0.777	-12.3	50		44	35-65	True
	PCB 65 (BZ)		C44	M/M+2	0.77	0.65-0.89	1.024	0.906	-11.5	150	a	133	105-195	True
	PCB 47 (BZ)		C44	M/M+2		0.65-0.89	1.024		0.0	150	a	133	105-195	C44
	PCB 44 (BZ)		C44	M/M+2		0.65-0.89	1.024		0.0	150	a	133	105-195	C44
	PCB 62 (BZ)		C59	M/M+2	0.78	0.65-0.89	1.297	1.196	-7.7	150	a	138	105-195	True
	PCB 75 (BZ)		C59	M/M+2		0.65-0.89	1.297		0.0	150	a	138	105-195	C59
	PCB 59 (BZ)		C59	M/M+2		0.65-0.89	1.297		0.0	150	a	138	105-195	C59
	PCB 42 (BZ)			M/M+2	0.79	0.65-0.89	0.860	0.801	-6.9	50		47	35-65	True
	PCB 41 (BZ)			M/M+2	0.75	0.65-0.89	0.723	0.620	-14.3	50		43	35-65	True
	PCB 71 (BZ)		C40	M/M+2	0.79	0.65-0.89	0.953	0.883	-7.4	100	a	93	70-130	True
	PCB 40 (BZ)		C40	M/M+2		0.65-0.89	0.953		0.0	100	a	93	70-130	C40
	PCB 64 (BZ)			M/M+2	0.79	0.65-0.89	1.313	1.209	-7.9	50		46	35-65	True
	PCB 72 (BZ)			M/M+2	0.79	0.65-0.89	1.257	1.118	-11.0	50		44	35-65	True
	PCB 68 (BZ)			M/M+2	0.79	0.65-0.89	1.327	1.104	-16.8	50		42	35-65	True
	PCB 57 (BZ)			M/M+2	0.77	0.65-0.89	1.194	1.052	-11.9	50		44	35-65	True
	PCB 58 (BZ)			M/M+2	0.78	0.65-0.89	1.260	1.076	-14.6	50		43	35-65	True
	PCB 67 (BZ)			M/M+2	0.79	0.65-0.89	1.286	1.173	-8.8	50		46	35-65	True
	PCB 63 (BZ)			M/M+2	0.80	0.65-0.89	1.339	1.083	-19.1	50		40	35-65	True
	PCB 61 (BZ)			M/M+2	0.78	0.65-0.89	1.190	0.933	-21.6	50		39	35-65	True
	PCB 70 (BZ)		C70	M/M+2	0.78	0.65-0.89	1.317	1.148	-12.8	150	a	131	105-195	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1 **ICAL Date:** 03/13/07

CCAL Filename: a070928s1 **Method:** IE3 - IE3

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20070928s1/a070928s1.d **Column SN:** 35055-03A

CCAL Date/Time: 09/28/07 12:05 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 76 (BZ)		C70	M/M+2		0.65-0.89	1.317		0.0	150 a	131	105-195	C70
	PCB 74 (BZ)		C70	M/M+2		0.65-0.89	1.317		0.0	150 a	131	105-195	C70
	PCB 66 (BZ)			M/M+2	0.77	0.65-0.89	1.289	1.040	-19.3	50	40	35-65	True
	PCB 55 (BZ)			M/M+2	0.78	0.65-0.89	1.161	0.943	-18.8	50	41	35-65	True
	PCB 56 (BZ)			M/M+2	0.77	0.65-0.89	1.231	1.060	-13.9	50	43	35-65	True
	PCB 60 (BZ)			M/M+2	0.79	0.65-0.89	1.191	1.114	-6.5	50	47	35-65	True
	PCB 80 (BZ)			M/M+2	0.77	0.65-0.89	1.416	1.361	-3.9	50	48	35-65	True
	PCB 79 (BZ)			M/M+2	0.81	0.65-0.89	1.371	1.287	-6.1	50	47	35-65	True
	PCB 78 (BZ)			M/M+2	0.75	0.65-0.89	1.181	1.100	-6.9	50	47	35-65	True
	PCB 81 (BZ)	T		M/M+2	0.78	0.65-0.89	1.317	1.225	-7.0	50	46	35-65	True
	PCB 77 (BZ)	T		M/M+2	0.78	0.65-0.89	1.200	1.111	-7.4	50	46	35-65	True
I	13C12-PCB 104			M+2/M+4	1.62	1.32-1.78	1.260	1.291	2.5	100	103	50-150	True
S	13C12-PCB 95			M+2/M+4	1.67	1.32-1.78	0.741	0.711	-4.0	50	48	35-65	True
R	13C12-PCB 101			M+2/M+4	1.69	1.32-1.78	1.000	1.000	0.0	100	100	-	
C	13C12-PCB 111			M+2/M+4	1.59	1.32-1.78	1.229	1.295	5.4	50	53	35-65 b	True
I	13C12-PCB 123			M+2/M+4	1.58	1.32-1.78	0.955	0.922	-3.4	100	97	50-150	True
I	13C12-PCB 118			M+2/M+4	1.62	1.32-1.78	0.988	1.011	2.3	100	102	50-150	True
I	13C12-PCB 114			M+2/M+4	1.61	1.32-1.78	0.971	0.945	-2.6	100	97	50-150	True
I	13C12-PCB 105			M+2/M+4	1.61	1.32-1.78	0.941	0.933	-0.9	100	99	50-150	True
R	13C12-PCB 127			M+2/M+4	1.63	1.32-1.78	1.000	1.000	0.0	100	100	-	
I	13C12-PCB 126			M+2/M+4	1.56	1.32-1.78	0.978	1.003	2.6	100	103	50-150	True
	PCB 104 (BZ)	L		M+2/M+4	1.60	1.32-1.78	1.149	1.074	-6.6	50	47	35-65	True
	PCB 96 (BZ)			M+2/M+4	1.63	1.32-1.78	1.014	0.949	-6.4	50	47	35-65	True
	PCB 103 (BZ)			M+2/M+4	1.58	1.32-1.78	0.866	0.809	-6.7	50	47	35-65	True
	PCB 94 (BZ)			M+2/M+4	1.61	1.32-1.78	0.703	0.709	0.9	50	50	35-65	True
	PCB 95 (BZ)		C95	M+2/M+4	1.65	1.32-1.78	0.859	0.806	-6.1	100 a	94	70-130	True
	PCB 100 (BZ)		C95	M+2/M+4		1.32-1.78	0.859		0.0	100 a	94	70-130	C95
	PCB 93 (BZ)			M+2/M+4	1.64	1.32-1.78	0.701	0.687	-2.0	50	49	35-65	True
	PCB 102 (BZ)		C98	M+2/M+4	1.60	1.32-1.78	0.822	0.795	-3.3	100 a	97	70-130	True
	PCB 98 (BZ)		C98	M+2/M+4		1.32-1.78	0.822		0.0	100 a	97	70-130	C98
	PCB 88 (BZ)			M+2/M+4	1.66	1.32-1.78	0.723	0.658	-9.0	50	46	35-65	True
	PCB 91 (BZ)			M+2/M+4	1.60	1.32-1.78	0.864	0.788	-8.7	50	46	35-65	True
	PCB 84 (BZ)			M+2/M+4	1.62	1.32-1.78	0.679	0.569	-16.3	50	42	35-65	True
	PCB 89 (BZ)			M+2/M+4	1.56	1.32-1.78	0.717	0.647	-9.9	50	45	35-65	True
	PCB 121 (BZ)			M+2/M+4	1.64	1.32-1.78	1.105	1.144	3.6	50	52	35-65	True
	PCB 92 (BZ)			M+2/M+4	1.57	1.32-1.78	0.772	0.715	-7.5	50	46	35-65	True
	PCB 113 (BZ)		C90	M+2/M+4	1.60	1.32-1.78	0.990	0.946	-4.4	150 a	143	105-195	True
	PCB 90 (BZ)		C90	M+2/M+4		1.32-1.78	0.990		0.0	150 a	143	105-195	C90
	PCB 101 (BZ)		C90	M+2/M+4		1.32-1.78	0.990		0.0	150 a	143	105-195	C90
	PCB 83 (BZ)		C83	M+2/M+4	1.65	1.32-1.78	0.777	0.750	-3.4	100 a	97	70-130	True
	PCB 99 (BZ)		C83	M+2/M+4		1.32-1.78	0.777		0.0	100 a	97	70-130	C83
	PCB 112 (BZ)			M+2/M+4	1.62	1.32-1.78	1.079	1.064	-1.4	50	49	35-65	True
	PCB 109 (BZ)/108 (IUPAC)		C86	M+2/M+4	1.62	1.32-1.78	0.967	0.943	-2.4	300 a	293	210-390	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1 **ICAL Date:** 03/13/07

CCAL Filename: a070928s1 **Method:** IE3 - IE3

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20070928s1/a070928s1.d **Column SN:** 35055-03A

CCAL Date/Time: 09/28/07 12:05 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
PCB 86 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300 a	293	210-390	C86
PCB 119 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300 a	293	210-390	C86
PCB 97 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300 a	293	210-390	C86
PCB 125 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300 a	293	210-390	C86
PCB 87 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300 a	293	210-390	C86
PCB 117 (BZ)		C85	M+2/M+4	1.60	1.32-1.78	0.979	0.937	-4.3	150 a	144	105-195	True
PCB 116 (BZ)		C85	M+2/M+4		1.32-1.78	0.979		0.0	150 a	144	105-195	C85
PCB 85 (BZ)		C85	M+2/M+4		1.32-1.78	0.979		0.0	150 a	144	105-195	C85
PCB 110 (BZ)		C110	M+2/M+4	1.60	1.32-1.78	1.139	1.119	-1.8	100 a	98	70-130	True
PCB 115 (BZ)		C110	M+2/M+4		1.32-1.78	1.139		0.0	100 a	98	70-130	C110
PCB 82 (BZ)			M+2/M+4	1.58	1.32-1.78	0.605	0.565	-6.5	50	47	35-65	True
PCB 111 (BZ)			M+2/M+4	1.63	1.32-1.78	1.129	1.133	0.4	50	50	35-65	True
PCB 120 (BZ)			M+2/M+4	1.65	1.32-1.78	1.192	1.084	-9.1	50	45	35-65	True
PCB 124 (BZ)		C108	M+2/M+4		1.32-1.78	1.123		0.0	100 a	92	70-130	C108
PCB 108 (BZ)/107 (IUPAC)		C108	M+2/M+4	1.60	1.32-1.78	1.123	1.033	-8.0	100 a	92	70-130	True
PCB 107 (BZ)/109 (IUPAC)			M+2/M+4	1.59	1.32-1.78	1.074	0.949	-11.7	50	44	35-65	True
PCB 123 (BZ)	T		M+2/M+4	1.53	1.32-1.78	1.136	1.077	-5.2	50	47	35-65	True
PCB 106 (BZ)			M+2/M+4	1.61	1.32-1.78	1.046	1.039	-0.7	50	50	35-65	True
PCB 118 (BZ)	T		M+2/M+4	1.55	1.32-1.78	1.094	0.976	-10.7	50	45	35-65	True
PCB 122 (BZ)			M+2/M+4	1.63	1.32-1.78	1.047	0.885	-15.5	50	42	35-65	True
PCB 114 (BZ)	T		M+2/M+4	1.55	1.32-1.78	1.196	1.203	0.6	50	50	35-65	True
PCB 105 (BZ)	T		M+2/M+4	1.51	1.32-1.78	1.218	1.049	-13.9	50	43	35-65	True
PCB 127 (BZ)			M+2/M+4	1.64	1.32-1.78	1.130	1.054	-6.7	50	47	35-65	True
PCB 126 (BZ)	T		M+2/M+4	1.62	1.32-1.78	1.111	1.007	-9.3	50	45	35-65	True
I 13C12-PCB 155			M+2/M+4	1.30	1.05-1.43	1.178	1.322	12.3	100	112	50-150	True
S 13C12-PCB 153			M+2/M+4	1.29	1.05-1.43	0.833	0.783	-6.0	50	47	35-65	True
R 13C12-PCB 138			M+2/M+4	1.28	1.05-1.43	1.000	1.000	0.0	100	100	-	
I 13C12-PCB 167			M+2/M+4	1.26	1.05-1.43	1.237	1.293	4.6	100	105	50-150	True
I 13C12-PCB 156			M+2/M+4	1.27	1.05-1.43	1.229	1.287	4.7	200	209	100-300	True
I 13C12-PCB 157			M+2/M+4		1.05-1.43	0.000		0.0	0	0	0-0	C156L
I 13C12-PCB 169			M+2/M+4	1.27	1.05-1.43	1.188	1.202	1.2	100	101	50-150	True
PCB 155 (BZ)	L		M+2/M+4	1.30	1.05-1.43	1.117	1.034	-7.4	50	46	35-65	True
PCB 152 (BZ)			M+2/M+4	1.29	1.05-1.43	1.023	0.861	-15.9	50	42	35-65	True
PCB 150 (BZ)			M+2/M+4	1.29	1.05-1.43	1.032	1.094	6.0	50	53	35-65	True
PCB 136 (BZ)			M+2/M+4	1.33	1.05-1.43	0.967	0.934	-3.3	50	48	35-65	True
PCB 145 (BZ)			M+2/M+4	1.28	1.05-1.43	1.021	0.985	-3.5	50	48	35-65	True
PCB 148 (BZ)			M+2/M+4	1.32	1.05-1.43	0.749	0.705	-5.8	50	47	35-65	True
PCB 151 (BZ)		C135	M+2/M+4		1.05-1.43	0.781		0.0	150 a	143	105-195	C135
PCB 135 (BZ)		C135	M+2/M+4	1.27	1.05-1.43	0.781	0.744	-4.7	150 a	143	105-195	True
PCB 154 (BZ)		C135	M+2/M+4		1.05-1.43	0.781		0.0	150 a	143	105-195	C135
PCB 144 (BZ)			M+2/M+4	1.33	1.05-1.43	0.759	0.715	-5.7	50	47	35-65	True
PCB 147 (BZ)		C147	M+2/M+4	1.29	1.05-1.43	0.862	0.769	-10.7	100 a	89	70-130	True
PCB 149 (BZ)		C147	M+2/M+4		1.05-1.43	0.862		0.0	100 a	89	70-130	C147

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1
ICAL Date: 03/13/07
CCAL Filename: a070928s1
Method: IE3 - IE3
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070928s1/a070928s1.d
Column SN: 35055-03A
CCAL Date/Time: 09/28/07 12:05
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
PCB 134 (BZ)		C134	M+2/M+4		1.05-1.43	0.711		0.0	100 a	93	70-130	C134
PCB 143 (BZ)		C134	M+2/M+4	1.24	1.05-1.43	0.711	0.660	-7.2	100 a	93	70-130	True
PCB 139 (BZ)		C139	M+2/M+4	1.28	1.05-1.43	0.856	0.787	-8.0	100 a	92	70-130	True
PCB 140 (BZ)		C139	M+2/M+4		1.05-1.43	0.856		0.0	100 a	92	70-130	C139
PCB 131 (BZ)			M+2/M+4	1.24	1.05-1.43	0.713	0.608	-14.7	50	43	35-65	True
PCB 142 (BZ)			M+2/M+4	1.23	1.05-1.43	0.735	0.663	-9.7	50	45	35-65	True
PCB 132 (BZ)			M+2/M+4	1.27	1.05-1.43	0.710	0.628	-11.5	50	44	35-65	True
PCB 133 (BZ)			M+2/M+4	1.28	1.05-1.43	0.768	0.693	-9.8	50	45	35-65	True
PCB 165 (BZ)			M+2/M+4	1.26	1.05-1.43	0.993	0.924	-6.9	50	47	35-65	True
PCB 146 (BZ)			M+2/M+4	1.27	1.05-1.43	0.874	0.771	-11.7	50	44	35-65	True
PCB 161 (BZ)			M+2/M+4	1.28	1.05-1.43	1.090	1.058	-2.9	50	49	35-65	True
PCB 153 (BZ)		C153	M+2/M+4	1.25	1.05-1.43	1.068	1.002	-6.2	100 a	94	70-130	True
PCB 168 (BZ)		C153	M+2/M+4		1.05-1.43	1.068		0.0	100 a	94	70-130	C153
PCB 141 (BZ)			M+2/M+4	1.26	1.05-1.43	0.756	0.738	-2.4	50	49	35-65	True
PCB 130 (BZ)			M+2/M+4	1.24	1.05-1.43	0.708	0.641	-9.5	50	45	35-65	True
PCB 137 (BZ)			M+2/M+4	1.24	1.05-1.43	0.835	0.797	-4.5	50	48	35-65	True
PCB 164 (BZ)			M+2/M+4	1.25	1.05-1.43	1.033	0.970	-6.1	50	47	35-65	True
PCB 138 (BZ)		C129	M+2/M+4	1.26	1.05-1.43	0.922	0.866	-6.1	200 a	188	140-260	True
PCB 163 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200 a	188	140-260	C129
PCB 129 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200 a	188	140-260	C129
PCB 160 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200 a	188	140-260	C129
PCB 158 (BZ)			M+2/M+4	1.27	1.05-1.43	1.191	1.114	-6.5	50	47	35-65	True
PCB 166 (BZ)			M+2/M+4	1.25	1.05-1.43	1.102	0.992	-10.0	50	45	35-65	True
PCB 128 (BZ)			M+2/M+4	1.27	1.05-1.43	0.769	0.755	-1.8	50	49	35-65	True
PCB 159 (BZ)			M+2/M+4	1.27	1.05-1.43	1.079	1.017	-5.8	50	47	35-65	True
PCB 162 (BZ)			M+2/M+4	1.24	1.05-1.43	1.079	1.023	-5.2	50	47	35-65	True
PCB 167 (BZ)	T		M+2/M+4	1.25	1.05-1.43	1.150	1.033	-10.2	50	45	35-65	True
PCB 156 (BZ)	T	C156	M+2/M+4		1.05-1.43	1.151		0.0	100 a	90	70-130	C156
PCB 157 (BZ)	T	C156	M+2/M+4		1.05-1.43	1.151		0.0	0 a	90	0-0	C156
PCB 169 (BZ)	T		M+2/M+4	1.26	1.05-1.43	1.337	1.147	-14.2	50	43	35-65	True
I 13C12-PCB 188			M+2/M+4	1.04	0.89-1.21	1.238	1.230	-0.7	100	99	50-150	True
C 13C12-PCB 178			M+2/M+4	1.03	0.89-1.21	0.863	0.812	-5.9	50	47	35-65 b	True
R 13C12-PCB 180			M+2/M+4	1.06	0.89-1.21	1.000	1.000	0.0	100	100	-	
I 13C12-PCB 170			M+2/M+4	1.03	0.89-1.21	0.813	0.847	4.1	100	104	50-150	True
I 13C12-PCB 189			M+2/M+4	1.05	0.89-1.21	1.620	1.560	-3.7	100	96	50-150	True
PCB 188 (BZ)	L		M+2/M+4	1.02	0.89-1.21	1.071	1.015	-5.2	50	47	35-65	True
PCB 179 (BZ)			M+2/M+4	1.08	0.89-1.21	1.200	1.148	-4.3	50	48	35-65	True
PCB 184 (BZ)			M+2/M+4	1.09	0.89-1.21	1.178	1.111	-5.7	50	47	35-65	True
PCB 176 (BZ)			M+2/M+4	1.06	0.89-1.21	1.252	1.199	-4.2	50	48	35-65	True
PCB 186 (BZ)			M+2/M+4	1.05	0.89-1.21	1.214	1.144	-5.8	50	47	35-65	True
PCB 178 (BZ)			M+2/M+4	1.06	0.89-1.21	0.889	0.830	-6.6	50	47	35-65	True
PCB 175 (BZ)			M+2/M+4	1.01	0.89-1.21	0.920	0.881	-4.2	50	48	35-65	True
PCB 187 (BZ)			M+2/M+4	1.07	0.89-1.21	1.009	0.935	-7.3	50	46	35-65	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1
ICAL Date: 03/13/07
CCAL Filename: a070928s1
Method: IE3 - IE3
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070928s1/a070928s1.d
Column SN: 35055-03A
CCAL Date/Time: 09/28/07 12:05
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 201 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 182 (BZ)			M+2/M+4	1.05	0.89-1.21	0.972	0.950	-2.2	50		49	35-65	True
	PCB 183 (BZ)			M+2/M+4	1.05	0.89-1.21	0.946	0.919	-2.8	50		49	35-65	True
	PCB 185 (BZ)			M+2/M+4	1.04	0.89-1.21	0.919	0.857	-6.7	50		47	35-65	True
	PCB 174 (BZ)			M+2/M+4	1.04	0.89-1.21	0.924	0.858	-7.1	50		46	35-65	True
	PCB 177 (BZ)			M+2/M+4	1.04	0.89-1.21	0.880	0.791	-10.0	50		45	35-65	True
	PCB 181 (BZ)			M+2/M+4	1.05	0.89-1.21	0.975	0.911	-6.5	50		47	35-65	True
	PCB 171 (BZ)		C171	M+2/M+4		0.89-1.21	0.835		0.0	100	a	96	70-130	C171
	PCB 173 (BZ)		C171	M+2/M+4	1.06	0.89-1.21	0.835	0.799	-4.4	100	a	96	70-130	True
	PCB 172 (BZ)			M+2/M+4	1.07	0.89-1.21	0.838	0.801	-4.4	50		48	35-65	True
	PCB 192 (BZ)			M+2/M+4	1.06	0.89-1.21	1.147	1.087	-5.3	50		47	35-65	True
	PCB 193 (BZ)		C180	M+2/M+4	1.08	0.89-1.21	1.134	1.082	-4.6	100	a	95	70-130	True
	PCB 180 (BZ)		C180	M+2/M+4		0.89-1.21	1.134		0.0	100	a	95	70-130	C180
	PCB 191 (BZ)			M+2/M+4	1.06	0.89-1.21	1.228	1.197	-2.5	50		49	35-65	True
	PCB 170 (BZ)			M+2/M+4	1.08	0.89-1.21	1.058	0.994	-6.0	50		47	35-65	True
	PCB 190 (BZ)			M+2/M+4	1.03	0.89-1.21	1.254	1.255	0.1	50		50	35-65	True
	PCB 189 (BZ)	T		M+2/M+4	1.04	0.89-1.21	1.097	1.010	-8.0	50		46	35-65	True
I	13C12-PCB 202			M+2/M+4	0.89	0.76-1.02	0.994	1.054	6.0	100		106	50-150	True
R	13C12-PCB 194			M+2/M+4	0.93	0.76-1.02	1.000	1.000	0.0	100		100	-	
I	13C12-PCB 205			M+2/M+4	0.88	0.76-1.02	1.407	1.462	4.0	100		104	50-150	True
	PCB 202 (BZ)	L		M+2/M+4	0.92	0.76-1.02	0.993	0.949	-4.4	50		48	35-65	True
	PCB 200 (BZ)/201 (IUPAC)			M+2/M+4	0.90	0.76-1.02	1.087	1.055	-3.0	50		49	35-65	True
	PCB 204 (BZ)			M+2/M+4	0.90	0.76-1.02	1.033	0.958	-7.3	50		46	35-65	True
	PCB 197 (BZ)			M+2/M+4	0.89	0.76-1.02	1.061	1.041	-1.9	50		49	35-65	True
	PCB 199 (BZ)/200 (IUPAC)			M+2/M+4	0.87	0.76-1.02	1.031	1.026	-0.5	50		50	35-65	True
	PCB 198 (BZ)		C198	M+2/M+4		0.76-1.02	0.761		0.0	100	a	97	70-130	C198
	PCB 201 (BZ)/199 (IUPAC)		C198	M+2/M+4	0.90	0.76-1.02	0.761	0.739	-2.8	100	a	97	70-130	True
	PCB 196 (BZ)			M+2/M+4	0.89	0.76-1.02	0.752	0.729	-3.1	50		48	35-65	True
	PCB 203 (BZ)			M+2/M+4	0.87	0.76-1.02	0.856	0.808	-5.6	50		47	35-65	True
	PCB 195 (BZ)			M+2/M+4	0.91	0.76-1.02	0.723	0.702	-2.8	50		49	35-65	True
	PCB 194 (BZ)			M+2/M+4	0.89	0.76-1.02	0.795	0.763	-4.0	50		48	35-65	True
	PCB 205 (BZ)	L		M+2/M+4	0.91	0.76-1.02	0.984	0.918	-6.8	50		47	35-65	True
I	13C12-PCB 208			M+2/M+4	0.80	0.65-0.89	1.161	1.349	16.2	100		116	50-150	True
I	13C12-PCB 206			M+2/M+4	0.75	0.65-0.89	0.823	0.933	13.4	100		113	50-150	True
	PCB 208 (BZ)	L		M+2/M+4	0.77	0.65-0.89	1.026	0.972	-5.3	50		47	35-65	True
	PCB 207 (BZ)			M+2/M+4	0.79	0.65-0.89	1.264	1.172	-7.3	50		46	35-65	True
	PCB 206 (BZ)	L		M+2/M+4	0.78	0.65-0.89	1.097	1.032	-5.9	50		47	35-65	True
I	13C12-PCB 209			M+2/M+4	0.71	0.59-0.79	0.930	1.140	22.6	100		123	50-150	True
	PCB 209 (BZ)	L		M+2/M+4	0.66	0.59-0.79	1.006	0.916	-8.9	50		46	35-65	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1
ICAL Date: 03/13/07
CCAL Filename: a070928s1
Method: IE3 - IE3
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070928s1/a070928s1.d
Column SN: 35055-03A
CCAL Date/Time: 09/28/07 12:05
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 191 False: 0 Warning: ~~19~~ 18 BPW 9/28/07

Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
I 13C12-PCB 1			12:12	12:16	4	15	0.7323	0.7345	0.7173-0.7473	True
I 13C12-PCB 3			14:25	14:29	4	15	0.8653	0.8673	0.8503-0.8803	True
PCB 1 (BZ)	L		12:13	12:17	4		1.0015	1.0014	0.9946-1.0083	True
PCB 2 (BZ)			14:16	14:18	2		0.9894	0.9873	0.9859-0.9928	True
PCB 3 (BZ)	L		14:26	14:30	4		1.0009	1.0012	0.9975-1.0044	True
I 13C12-PCB 4			14:42	14:46	4	15	0.8827	0.8842	0.8677-0.8977	True
R 13C12-PCB 9			16:39	16:42	3		1.0000	1.0000	0.9875-1.0125	True
S 13C12-PCB 8			17:32	17:36	4		1.1927	1.1919	1.1893-1.1961	True
I 13C12-PCB 15			20:41	20:45	4	15	1.2412	1.2425	1.2312-1.2512	True
PCB 4 (BZ)	L		14:43	14:47	4		1.0012	1.0011	0.9955-1.0069	True
PCB 10 (BZ)			14:54	14:56	2		1.0129	1.0113	1.0095-1.0163	True
PCB 9 (BZ)			16:41	16:44	3		1.1349	1.1332	1.1315-1.1383	True
PCB 7 (BZ)			16:50	16:52	2		1.1451	1.1422	1.1417-1.1485	True
PCB 6 (BZ)			17:07	17:10	3		1.1647	1.1625	1.1613-1.1681	True
PCB 5 (BZ)			17:26	17:29	3		1.1859	1.1840	1.1825-1.1893	True
PCB 8 (BZ)			17:34	17:37	3		1.1946	1.1930	1.1912-1.1980	True
PCB 14 (BZ)			19:09	19:11	2		0.9264	0.9245	0.9239-0.9288	True
PCB 11 (BZ)			20:04	20:06	2		0.9704	0.9687	0.9680-0.9728	True
PCB 13 (BZ)		C12	20:20	20:26	6		0.9836	0.9847	0.9811-0.9860	True
PCB 12 (BZ)		C12	20:23				0.9857		0.9833-0.9881	C12
PCB 15 (BZ)	L		20:41	20:46	5		1.0007	1.0008	0.9967-1.0048	True
I 13C12-PCB 19			17:53	17:57	4	15	0.8458	0.8467	0.8340-0.8576	True
R 13C12-PCB 32			21:09	21:12	3		1.0000	1.0000	0.9976-1.0024	True
R 13C12-PCB 31			23:24	23:26	2		1.0000	1.0000	0.9979-1.0021	True
C 13C12-PCB 28			23:41	23:43	2		1.0123	1.0121	1.0052-1.0195	True
I 13C12-PCB 37			27:46	27:51	5	15	1.1869	1.1885	1.1762-1.1976	True
PCB 19 (BZ)	L		17:55	17:58	3		1.0014	1.0009	0.9967-1.0060	True
PCB 30 (BZ)			19:38	19:39	1		1.0982	1.0947	1.0955-1.1010	Warning
PCB 18 (BZ)			19:45	19:48	3		1.1048	1.1031	1.1020-1.1076	True
PCB 17 (BZ)			20:10	20:12	2		1.1271	1.1253	1.1243-1.1299	True
PCB 27 (BZ)			20:25	20:27	2		1.1414	1.1393	1.1386-1.1442	True
PCB 24 (BZ)			20:31	20:34	3		1.1473	1.1458	1.1445-1.1501	True
PCB 16 (BZ)			20:41	20:44	3		1.1560	1.1551	1.1532-1.1588	True
PCB 32 (BZ)			21:11	21:13	2		1.1839	1.1820	1.1812-1.1867	True
PCB 34 (BZ)			22:24	22:25	1		1.2523	1.2488	1.2495-1.2550	Warning
PCB 23 (BZ)			22:31	22:32	1		1.2591	1.2553	1.2563-1.2619	Warning
PCB 29 (BZ)		C26	22:51	22:53	2		1.2771	1.2748	1.2724-1.2818	True
PCB 26 (BZ)		C26	22:52				1.2790		1.2743-1.2836	C26
PCB 25 (BZ)			23:05	23:08	3		0.8313	0.8306	0.8295-0.8331	True
PCB 31 (BZ)			23:26	23:27	1		0.8437	0.8420	0.8419-0.8455	True
PCB 28 (BZ)		C20	23:42				0.8537		0.8507-0.8567	C20
PCB 20 (BZ)		C20	23:47	23:50	3		0.8565	0.8558	0.8535-0.8595	True
PCB 21 (BZ)		C21	23:54				0.8607		0.8577-0.8637	C21
PCB 33 (BZ)		C21	24:00	24:02	2		0.8643	0.8630	0.8613-0.8673	True
PCB 22 (BZ)			24:24	24:27	3		0.8787	0.8779	0.8769-0.8805	True
PCB 36 (BZ)			25:55	25:55	0		0.9329	0.9306	0.9311-0.9347	Warning
PCB 39 (BZ)			26:16	26:19	3		0.9459	0.9449	0.9441-0.9477	True
PCB 38 (BZ)			26:52	26:53	1		0.9672	0.9653	0.9654-0.9690	Warning

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1
ICAL Date: 03/13/07
CCAL Filename: a070928s1
Method: IE3 - IE3
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070928s1/a070928s1.d
Column SN: 35055-03A
CCAL Date/Time: 09/28/07 12:05
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 191 False: 0 Warning: 19

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 35 (BZ)			27:23	27:25	2		0.9862	0.9844	0.9844-0.9880	True
	PCB 37 (BZ)	L		27:48	27:52	4		1.0006	1.0006	0.9988-1.0024	True
I	13C12-PCB 54			21:02	21:05	3	15	0.8233	0.8246	0.8168-0.8298	True
R	13C12-PCB 52			25:33	25:34	1		1.0000	1.0000	0.9918-1.0082	True
S	13C12-PCB 79			33:28	33:29	1		0.9699	0.9696	0.9685-0.9714	True
I	13C12-PCB 81			34:30	34:32	2	15	1.3506	1.3507	1.3440-1.3571	True
I	13C12-PCB 77			35:06	35:09	3	15	1.3737	1.3748	1.3672-1.3803	True
	PCB 54 (BZ)	L		21:03	21:08	5		1.0006	1.0024	0.9967-1.0046	True
	PCB 50 (BZ)		C50	23:10	23:13	3		1.1015	1.1012	1.0976-1.1055	True
	PCB 53 (BZ)		C50	23:11				1.1026		1.0986-1.1065	C50
	PCB 45 (BZ)		C45	23:53	23:57	4		1.1361	1.1360	1.1322-1.1401	True
	PCB 51 (BZ)		C45	23:56				1.1377		1.1337-1.1417	C45
	PCB 46 (BZ)			24:14	24:17	3		1.1520	1.1518	1.1496-1.1543	True
	PCB 52 (BZ)			25:34	25:35	1		1.2161	**1.2134**	1.2138-1.2185	**Warning**
	PCB 73 (BZ)		C43	25:41	25:43	2		1.2214	1.2198	1.2190-1.2238	True
	PCB 43 (BZ)		C43	25:47				1.2262		1.2238-1.2285	C43
	PCB 69 (BZ)			25:56	25:56	0		1.2330	1.2300	1.2291-1.2370	True
	PCB 49 (BZ)			26:03	26:03	0		1.2386	1.2356	1.2346-1.2425	True
	PCB 48 (BZ)			26:19	26:20	1		1.2515	**1.2490**	1.2491-1.2539	**Warning**
	PCB 65 (BZ)		C44	26:32	26:33	1		1.2616	1.2593	1.2576-1.2655	True
	PCB 47 (BZ)		C44	26:34				1.2634		1.2594-1.2674	C44
	PCB 44 (BZ)		C44	26:36				1.2647		1.2608-1.2687	C44
	PCB 62 (BZ)		C59	26:48	26:50	2		1.2745	1.2727	1.2705-1.2785	True
	PCB 75 (BZ)		C59	26:52				1.2779		1.2740-1.2819	C59
	PCB 59 (BZ)		C59	26:55				1.2795		1.2756-1.2835	C59
	PCB 42 (BZ)			27:07	27:09	2		1.2893	1.2877	1.2869-1.2917	True
	PCB 41 (BZ)			27:32	27:33	1		1.3088	1.3067	1.3049-1.3128	True
	PCB 71 (BZ)		C40	27:37	27:40	3		1.3133	1.3123	1.3094-1.3173	True
	PCB 40 (BZ)		C40	27:40				1.3157		1.3117-1.3197	C40
	PCB 64 (BZ)			27:49	27:52	3		1.3228	1.3217	1.3204-1.3252	True
	PCB 72 (BZ)			28:37	28:35	-2		0.8292	**0.8277**	0.8278-0.8307	**Warning**
	PCB 68 (BZ)			28:52	28:52	0		0.8368	0.8359	0.8353-0.8382	True
	PCB 57 (BZ)			29:19	29:18	-1		0.8500	0.8485	0.8485-0.8514	True
	PCB 58 (BZ)			29:35	29:35	0		0.8576	0.8567	0.8561-0.8590	True
	PCB 67 (BZ)			29:42	29:43	1		0.8611	0.8605	0.8597-0.8626	True
	PCB 63 (BZ)			30:00	29:59	-1		0.8693	0.8682	0.8679-0.8708	True
	PCB 61 (BZ)			30:13	30:13	0		0.8758	0.8750	0.8729-0.8786	True
	PCB 70 (BZ)		C70	30:21	30:23	2		0.8795	0.8798	0.8766-0.8824	True
	PCB 76 (BZ)		C70	30:21				0.8798		0.8769-0.8827	C70
	PCB 74 (BZ)		C70	30:23				0.8807		0.8783-0.8832	C70
	PCB 66 (BZ)			30:41	30:42	1		0.8896	0.8890	0.8881-0.8910	True
	PCB 55 (BZ)			30:53	30:54	1		0.8951	0.8948	0.8936-0.8965	True
	PCB 56 (BZ)			31:24	31:26	2		0.9100	0.9102	0.9086-0.9115	True
	PCB 60 (BZ)			31:36	31:38	2		0.9160	0.9160	0.9146-0.9174	True
	PCB 80 (BZ)			31:52	31:51	-1		0.9239	**0.9223**	0.9224-0.9253	**Warning**
	PCB 79 (BZ)			33:30	33:30	0		0.9709	0.9701	0.9694-0.9723	True
	PCB 78 (BZ)			34:05	34:05	0		0.9876	0.9870	0.9862-0.9891	True
	PCB 81 (BZ)	T		34:32	34:34	2		1.0008	1.0010	0.9994-1.0023	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1
ICAL Date: 03/13/07
CCAL Filename: a070928s1
Method: IE3 - IE3
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070928s1/a070928s1.d
Column SN: 35055-03A
CCAL Date/Time: 09/28/07 12:05
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 191 False: 0 Warning: 19

Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
PCB 77 (BZ)	T		35:07	35:10	3		1.0004	1.0005	0.9990-1.0018	True
I 13C12-PCB 104			26:28	26:28	0	15	0.8182	0.8186	0.8131-0.8234	True
S 13C12-PCB 95			29:30	29:31	1		1.1143	1.1152	1.1111-1.1174	True
R 13C12-PCB 101			32:21	32:20	-1		1.0000	1.0000	0.9936-1.0064	True
C 13C12-PCB 111			34:59	34:56	-3		1.0813	1.0804	1.0761-1.0864	True
I 13C12-PCB 123			37:01	36:59	-2	15	1.1438	1.1438	1.1386-1.1489	True
I 13C12-PCB 118			37:20	37:19	-1	15	1.1537	1.1541	1.1486-1.1589	True
I 13C12-PCB 114			37:52	37:52	0	15	1.1705	1.1711	1.1653-1.1756	True
I 13C12-PCB 105			38:35	38:36	1	15	1.1923	1.1938	1.1871-1.1974	True
R 13C12-PCB 127			39:58	39:56	-2		1.0000	1.0000	0.9948-1.0052	True
I 13C12-PCB 126			41:38	41:39	1	15	1.2868	1.2881	1.2817-1.2920	True
PCB 104 (BZ)	L		26:30	26:30	0		1.0007	1.0013	0.9975-1.0038	True
PCB 96 (BZ)			26:59	27:01	2		1.0189	1.0208	1.0158-1.0221	True
PCB 103 (BZ)			28:47	28:44	-3		1.0869	1.0856	1.0850-1.0888	True
PCB 94 (BZ)			29:03	29:03	0		1.0974	1.0976	1.0955-1.0993	True
PCB 95 (BZ)		C95	29:33	29:33	0		1.1158	1.1165	1.1127-1.1190	True
PCB 100 (BZ)		C95	29:37				1.1186		1.1154-1.1217	C95
PCB 93 (BZ)			29:42	29:44	2		1.1221	1.1234	1.1190-1.1253	True
PCB 102 (BZ)		C98	29:50	29:51	1		1.1268	1.1278	1.1236-1.1299	True
PCB 98 (BZ)		C98	29:54				1.1295		1.1263-1.1326	C98
PCB 88 (BZ)			30:15	30:14	-1		1.1427	1.1423	1.1389-1.1465	True
PCB 91 (BZ)			30:22	30:22	0		1.1471	1.1474	1.1440-1.1503	True
PCB 84 (BZ)			30:39	30:42	3		1.1576	1.1599	1.1557-1.1595	Warning
PCB 89 (BZ)			31:07	31:08	1		1.1756	1.1763	1.1737-1.1775	True
PCB 121 (BZ)			31:21	31:18	-3		1.1840	1.1826	1.1821-1.1859	True
PCB 92 (BZ)			31:49	31:47	-2		0.8598	0.8594	0.8584-0.8611	True
PCB 113 (BZ)		C90	32:21	32:20	-1		1.2218	1.2217	1.2186-1.2249	True
PCB 90 (BZ)		C90	32:22				1.2224		1.2193-1.2256	C90
PCB 101 (BZ)		C90	32:22				1.2226		1.2195-1.2258	C90
PCB 83 (BZ)		C83	32:55	32:55	0		1.2432	1.2437	1.2394-1.2470	True
PCB 99 (BZ)		C83	32:57				1.2444		1.2413-1.2476	C83
PCB 112 (BZ)			33:05	33:04	-1		1.2497	1.2494	1.2478-1.2516	True
PCB 109 (BZ)/108 (IUPAC)		C86	33:25	33:23	-2		1.2621	1.2613	1.2570-1.2671	True
PCB 86 (BZ)		C86	33:29				1.2648		1.2598-1.2698	C86
PCB 119 (BZ)		C86	33:27				1.2633		1.2583-1.2684	C86
PCB 97 (BZ)		C86	33:30				1.2656		1.2606-1.2707	C86
PCB 125 (BZ)		C86	33:36				1.2688		1.2637-1.2738	C86
PCB 87 (BZ)		C86	33:39				1.2711		1.2679-1.2742	C86
PCB 117 (BZ)		C85	34:06	34:06	0		1.2881	1.2884	1.2843-1.2919	True
PCB 116 (BZ)		C85	34:10				1.2904		1.2866-1.2942	C85
PCB 85 (BZ)		C85	34:15				1.2940		1.2908-1.2971	C85
PCB 110 (BZ)		C110	34:25	34:25	0		1.3000	1.3004	1.2969-1.3032	True
PCB 115 (BZ)		C110	34:25				1.2998		1.2967-1.3030	C110
PCB 82 (BZ)			34:47	34:49	2		1.3141	1.3155	1.3122-1.3160	True
PCB 111 (BZ)			35:01	34:57	-4		1.3225	1.3205	1.3206-1.3244	Warning
PCB 120 (BZ)			35:29	35:25	-4		1.3401	1.3382	1.3382-1.3420	True
PCB 124 (BZ)		C108	36:42				1.3858		1.3827-1.3890	C108
PCB 108 (BZ)/107 (IUPAC)		C108	36:41	36:40	-1		1.3854	1.3854	1.3823-1.3886	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1
ICAL Date: 03/13/07
CCAL Filename: a070928s1
Method: IE3 - IE3
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070928s1/a070928s1.d
Column SN: 35055-03A
CCAL Date/Time: 09/28/07 12:05
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 191 False: 0 Warning: 19

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 107 (BZ)/109 (IUPAC)			36:55	36:54	-1		1.3942	1.3942	1.3923-1.3961	True
	PCB 123 (BZ)	T		37:01	37:01	0		1.0004	1.0009	0.9991-1.0018	True
	PCB 106 (BZ)			37:10	37:08	-2		1.0042	1.0041	1.0028-1.0055	True
	PCB 118 (BZ)	T		37:22	37:20	-2		1.0007	1.0004	0.9994-1.0021	True
	PCB 122 (BZ)			37:46	37:45	-1		1.0117	1.0116	1.0104-1.0131	True
	PCB 114 (BZ)	T		37:54	37:53	-1		1.0006	1.0004	0.9993-1.0019	True
	PCB 105 (BZ)	T		38:37	38:37	0		1.0010	1.0004	0.9997-1.0023	True
	PCB 127 (BZ)			40:00	39:57	-3		1.0367	1.0350	1.0354-1.0380	Warning
	PCB 126 (BZ)	T		41:39	41:40	1		1.0005	1.0004	0.9993-1.0017	True
I	13C12-PCB 155			32:02	31:58	-4	15	0.7919	0.7909	0.7878-0.7960	True
S	13C12-PCB 153			39:08	39:05	-3		0.9018	0.9019	0.8999-0.9037	True
R	13C12-PCB 138			40:27	40:25	-2		1.0000	1.0000	0.9794-1.0206	True
I	13C12-PCB 167			43:24	43:20	-4	15	1.0729	1.0722	1.0687-1.0770	True
I	13C12-PCB 156			44:34	44:37	3	15	1.1018	~~1.1039~~ 1.1018	1.1006-1.1031	~~Warning~~ True BAN 9/28/07 KZ
I	13C12-PCB 157			44:39			15	1.1037		1.1025-1.1049	
I	13C12-PCB 169			47:50	47:48	-2	15	1.1822	1.1827	1.1809-1.1834	True
	PCB 155 (BZ)	L		32:03	31:59	-4		1.0006	1.0005	0.9980-1.0032	True
	PCB 152 (BZ)			32:25	32:24	-1		1.0121	1.0136	1.0105-1.0136	True
	PCB 150 (BZ)			32:31	32:29	-2		1.0154	1.0162	1.0138-1.0169	True
	PCB 136 (BZ)			33:00	33:00	0		1.0303	1.0323	1.0287-1.0318	Warning
	PCB 145 (BZ)			33:13	33:12	-1		1.0369	1.0386	1.0353-1.0384	Warning
	PCB 148 (BZ)			34:38	34:33	-5		1.0812	1.0808	1.0797-1.0828	True
	PCB 151 (BZ)		C135	35:17				1.1017		1.0991-1.1043	C135
	PCB 135 (BZ)		C135	35:22	35:23	1		1.1041	1.1069	1.1015-1.1067	Warning
	PCB 154 (BZ)		C135	35:27				1.1066		1.1040-1.1092	C135
	PCB 144 (BZ)			35:51	35:48	-3		1.1192	1.1199	1.1177-1.1208	True
	PCB 147 (BZ)		C147	36:12	36:10	-2		1.1298	1.1314	1.1272-1.1324	True
	PCB 149 (BZ)		C147	36:14				1.1310		1.1284-1.1336	C147
	PCB 134 (BZ)		C134	36:27				1.1379		1.1353-1.1405	C134
	PCB 143 (BZ)		C134	36:34	36:32	-2		1.1412	1.1429	1.1386-1.1438	True
	PCB 139 (BZ)		C139	36:46	36:44	-2		1.1477	1.1491	1.1451-1.1503	True
	PCB 140 (BZ)		C139	36:49				1.1490		1.1464-1.1516	C139
	PCB 131 (BZ)			37:02	37:01	-1		1.1563	1.1580	1.1548-1.1579	Warning
	PCB 142 (BZ)			37:12	37:10	-2		1.1610	1.1627	1.1594-1.1626	Warning
	PCB 132 (BZ)			37:34	37:33	-1		1.1725	1.1747	1.1698-1.1751	True
	PCB 133 (BZ)			37:56	37:52	-4		1.1841	1.1846	1.1825-1.1856	True
	PCB 165 (BZ)			38:19	38:15	-4		0.8827	0.8827	0.8815-0.8838	True
	PCB 146 (BZ)			38:33	38:30	-3		0.8883	0.8885	0.8871-0.8895	True
	PCB 161 (BZ)			38:42	38:37	-5		0.8915	0.8912	0.8903-0.8927	True
	PCB 153 (BZ)		C153	39:11	39:07	-4		0.9028	0.9027	0.9008-0.9047	True
	PCB 168 (BZ)		C153	39:13				0.9035		0.9016-0.9054	C153
	PCB 141 (BZ)			39:25	39:23	-2		0.9081	0.9088	0.9070-0.9093	True
	PCB 130 (BZ)			39:51	39:49	-2		0.9182	0.9188	0.9171-0.9194	True
	PCB 137 (BZ)			40:02	40:00	-2		0.9225	0.9231	0.9213-0.9236	True
	PCB 164 (BZ)			40:11	40:10	-1		0.9258	0.9269	0.9246-0.9269	True
	PCB 138 (BZ)		C129	40:29	40:26	-3		0.9327	0.9331	0.9300-0.9354	True
	PCB 163 (BZ)		C129	40:29				0.9326		0.9299-0.9353	C129
	PCB 129 (BZ)		C129	40:35				0.9351		0.9325-0.9378	C129

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1
ICAL Date: 03/13/07
CCAL Filename: a070928s1
Method: IE3 - IE3
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070928s1/a070928s1.d
Column SN: 35055-03A
CCAL Date/Time: 09/28/07 12:05
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 191 False: 0 Warning: 19

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 160 (BZ)		C129	40:38				0.9362		0.9342-0.9381	C129
	PCB 158 (BZ)			40:50	40:48	-2		0.9409	0.9415	0.9397-0.9421	True
	PCB 166 (BZ)			41:41	41:38	-3		0.9605	0.9608	0.9586-0.9624	True
	PCB 128 (BZ)			41:48	41:48	0		0.9632	0.9646	0.9612-0.9651	True
	PCB 159 (BZ)			42:40	42:35	-5		0.9830	0.9827	0.9819-0.9842	True
	PCB 162 (BZ)			42:57	42:54	-3		0.9895	0.9900	0.9884-0.9907	True
	PCB 167 (BZ)	T		43:27	43:22	-5		1.0009	1.0008	0.9998-1.0021	True
	PCB 156 (BZ)	T	C156	44:37				1.0008		0.9997-1.0019	C156
	PCB 157 (BZ)	T	C156	44:41				1.0025		1.0006-1.0043	C156
	PCB 169 (BZ)	T		47:51	47:49	-2		1.0003	1.0003	0.9993-1.0014	True
I	13C12-PCB 188			37:46	37:41	-5	15	0.8226	0.8222	0.8190-0.8262	True
C	13C12-PCB 178			40:51	40:46	-5		0.8896	0.8895	0.8859-0.8932	True
R	13C12-PCB 180			45:55	45:50	-5		1.0000	1.0000	0.9819-1.0181	True
I	13C12-PCB 170			47:15	47:11	-4	15	1.0288	1.0295	1.0252-1.0324	True
I	13C12-PCB 189			50:18	50:14	-4	15	1.0954	1.0960	1.0918-1.0991	True
	PCB 188 (BZ)	L		37:47	37:43	-4		1.0004	1.0009	0.9991-1.0017	True
	PCB 179 (BZ)			38:15	38:12	-3		1.0127	1.0137	1.0114-1.0141	True
	PCB 184 (BZ)			38:39	38:33	-6		1.0232	1.0230	1.0219-1.0245	True
	PCB 176 (BZ)			39:07	39:04	-3		1.0355	1.0367	1.0342-1.0368	True
	PCB 186 (BZ)			39:34	39:32	-2		1.0476	1.0491	1.0463-1.0489	Warning
	PCB 178 (BZ)			40:53	40:47	-6		1.0824	1.0823	1.0811-1.0838	True
	PCB 175 (BZ)			41:30	41:25	-5		1.0988	1.0991	1.0974-1.1001	True
	PCB 187 (BZ)			41:46	41:41	-5		1.1058	1.1061	1.1045-1.1071	True
	PCB 182 (BZ)			41:57	41:52	-5		1.1105	1.1110	1.1092-1.1118	True
	PCB 183 (BZ)			42:22	42:16	-6		1.1217	1.1216	1.1204-1.1230	True
	PCB 185 (BZ)			42:31	42:26	-5		1.1255	1.1261	1.1242-1.1268	True
	PCB 174 (BZ)			42:41	42:38	-3		1.1301	1.1314	1.1288-1.1314	True
	PCB 177 (BZ)			43:08	43:04	-4		1.1418	1.1429	1.1405-1.1432	True
	PCB 181 (BZ)			43:28	43:23	-5		1.1507	1.1513	1.1493-1.1520	True
	PCB 171 (BZ)		C171	43:45				1.1580		1.1558-1.1602	C171
	PCB 173 (BZ)		C171	43:44	43:40	-4		1.1576	1.1588	1.1563-1.1589	True
	PCB 172 (BZ)			45:19	45:13	-6		0.9007	0.9001	0.8997-0.9017	True
	PCB 192 (BZ)			45:34	45:28	-6		0.9057	0.9051	0.9047-0.9067	True
	PCB 193 (BZ)		C180	45:53	45:50	-3		0.9123	0.9124	0.9113-0.9133	True
	PCB 180 (BZ)		C180	45:56				0.9131		0.9121-0.9141	C180
	PCB 191 (BZ)			46:19	46:13	-6		0.9206	0.9200	0.9196-0.9216	True
	PCB 170 (BZ)			47:17	47:13	-4		0.9400	0.9399	0.9390-0.9410	True
	PCB 190 (BZ)			47:46	47:41	-5		0.9498	0.9492	0.9488-0.9507	True
	PCB 189 (BZ)	T		50:20	50:15	-5		1.0004	1.0003	0.9994-1.0014	True
I	13C12-PCB 202			43:08	43:02	-6	15	0.8236	0.8233	0.8204-0.8268	True
R	13C12-PCB 194			52:23	52:16	-7		1.0000	1.0000	0.9960-1.0040	True
I	13C12-PCB 205			52:50	52:44	-6	15	1.0088	1.0089	1.0040-1.0136	True
	PCB 202 (BZ)	L		43:09	43:04	-5		1.0004	1.0008	0.9984-1.0023	True
	PCB 200 (BZ)/201 (IUPAC)			44:05	43:57	-8		1.0219	1.0213	1.0199-1.0238	True
	PCB 204 (BZ)			44:43	44:35	-8		1.0367	1.0360	1.0355-1.0378	True
	PCB 197 (BZ)			44:57	44:50	-7		1.0421	1.0418	1.0409-1.0432	True
	PCB 199 (BZ)/200 (IUPAC)			45:09	45:04	-5		1.0468	1.0473	1.0457-1.0480	True
	PCB 198 (BZ)		C198	47:50				1.1088		1.1068-1.1107	C198

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A

CCAL ID: 23012 - A070928S1
ICAL Date: 03/13/07
CCAL Filename: a070928s1
Method: IE3 - IE3
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20070928s1/a070928s1.d
Column SN: 35055-03A
CCAL Date/Time: 09/28/07 12:05
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 191 False: 0 Warning: 19

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 201 (BZ)/199 (IUPAC)		C198	47:54	47:48	-6		1.1103	1.1108	1.1092-1.1115	True
	PCB 196 (BZ)			48:33	48:26	-7		0.9188	0.9185	0.9179-0.9198	True
	PCB 203 (BZ)			48:43	48:36	-7		0.9221	0.9216	0.9211-0.9230	True
	PCB 195 (BZ)			50:04	50:01	-3		0.9485	0.9485	0.9483-0.9501	True
	PCB 194 (BZ)			52:24	52:17	-7		0.9919	0.9915	0.9909-0.9928	True
	PCB 205 (BZ)	L		52:52	52:46	-6		1.0004	1.0006	0.9995-1.0013	True
I	13C12-PCB 208			49:46	49:38	-8	15	0.9501	0.9496	0.9469-0.9533	True
I	13C12-PCB 206			54:33	54:25	-8	15	1.0414	1.0411	1.0366-1.0462	True
	PCB 208 (BZ)	L		49:47	49:40	-7		1.0004	1.0007	0.9994-1.0014	True
	PCB 207 (BZ)			50:43	50:34	-9		1.0190	1.0188	1.0180-1.0200	True
	PCB 206 (BZ)	L		54:34	54:26	-8		1.0003	1.0003	0.9994-1.0013	True
I	13C12-PCB 209			56:08	55:58	-10	15	1.0716	1.0708	1.0668-1.0763	True
	PCB 209 (BZ)	L		56:09	55:59	-10		1.0004	1.0003	0.9995-1.0013	True

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070928s1/a070928s1.d	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	9/28/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:05	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
Total Monochlorobiphenyl		4916329	1506686			125.939227		125.939227		0.104
13C12-PCB 1	12:16	3065685	1114587	1.318	100.0	90.313604	90.31	90.313604		0.0623
13C12-PCB 3	14:29	3057468	857079	1.325	100.0	89.540819	89.54	89.540819		0.0620
PCB 1 (BZ)	12:17	1657617	551677	1.253	50.00	43.157081	86.31	43.157081		0.0310
PCB 2 (BZ)	14:18	1569922	462925	1.226	50.00	41.813542	83.63	41.813542		0.0358
PCB 3 (BZ)	14:30	1688790	492084	1.348	50.00	40.968604	81.94	40.968604		0.0374
Total Dichlorobiphenyl		15990201	3362092			545.957951		545.957951		1.72
13C12-PCB 4	14:46	1557975	448642	0.615	100.0	98.357671	98.36	98.357671		0.135
13C12-PCB 9	16:42	2576114	642319	1.000	100.0	100.000000	100.00	100.000000		0.0829
13C12-PCB 8	17:36	1318024	327226	1.332	50.00	47.792311	95.58	47.792311	E	0.0819
13C12-PCB 15	20:45	2581834	527784	1.065	100.0	94.123986	94.12	94.123986		0.0779
PCB 4 (BZ)	14:47	841895	258860	1.212	50.00	44.601786	89.20	44.601786		0.197
PCB 10 (BZ)	14:56	1313996	382692	1.326	50.00	47.888627	95.78	47.888627		0.165
PCB 9 (BZ)	16:44	1383713	370137	1.445	50.00	46.253904	92.51	46.253904		0.152
PCB 7 (BZ)	16:52	1491786	367852	1.432	50.00	50.339165	100.68	50.339165		0.153
PCB 6 (BZ)	17:10	1408481	376947	1.450	50.00	46.924339	93.85	46.924339		0.151
PCB 5 (BZ)	17:29	1229200	317099	1.356	50.00	43.798039	87.60	43.798039		0.162
PCB 8 (BZ)	17:37	1385376	359799	1.477	50.00	45.319225	90.64	45.319225		0.148
PCB 14 (BZ)	19:11	1603318	378223	1.687	50.00	45.902821	91.81	45.902821		0.130
PCB 11 (BZ)	20:06	1333416	270314	1.448	50.00	44.497761	89.00	44.497761		0.151
PCB 13 (BZ)	20:26	2645843	462474	1.454	100.0	87.916163	87.92	87.916163	C12	0.151
PCB 12 (BZ)		2645843		1.454	100.0	87.916163	87.92	87.916163	C	0.151
PCB 15 (BZ)	20:46	1353177	280169	1.233	50.00	42.516121	85.03	42.516121		0.164
Total Trichlorobiphenyl		30303562	4896559			1095.94285		1095.94285		3.32
13C12-PCB 19	17:57	1168217	303636	0.558	100.0	110.758957	110.76	110.758957		0.295
13C12-PCB 32	21:12	1889046	440300	1.000	100.0	100.000000	100.00	100.000000		0.165
13C12-PCB 31	23:26	2828971	594710	1.000	100.0	100.000000	100.00	100.000000		0.122
13C12-PCB 28	23:43	1506037	288545	0.968	50.00	55.004126	110.01	55.004126	E	0.126
13C12-PCB 37	27:51	2605430	445545	0.885	100.0	104.036026	104.04	104.036026		0.138
PCB 19 (BZ)	17:58	701025	177944	1.178	50.00	50.954368	101.91	50.954368		0.227
PCB 30 (BZ)	19:39	1056198	260706	1.874	50.00	48.235004	96.47	48.235004		0.142
PCB 18 (BZ)	19:48	767322	174082	1.262	50.00	52.040462	104.08	52.040462		0.211
PCB 17 (BZ)	20:12	766121	185611	1.326	50.00	49.458962	98.92	49.458962		0.201
PCB 27 (BZ)	20:27	998808	254203	1.945	50.00	43.955281	87.91	43.955281		0.137
PCB 24 (BZ)	20:34	1025492	243740	1.782	50.00	49.261095	98.52	49.261095		0.150
PCB 16 (BZ)	20:44	581914	142919	1.157	50.00	43.040369	86.08	43.040369		0.231
PCB 32 (BZ)	21:13	1136180	257614	1.966	50.00	49.458979	98.92	49.458979		0.136
PCB 34 (BZ)	22:25	1313078	319193	1.216	50.00	41.446877	82.89	41.446877		0.150
PCB 23 (BZ)	22:32	1533685	333590	1.208	50.00	48.737140	97.47	48.737140		0.151
PCB 29 (BZ)	22:53	2894052	557707	1.265	100.0	87.827012	87.83	87.827012	C26	0.144
PCB 26 (BZ)		2894052		1.265	100.0	87.827012	87.83	87.827012	C	0.144
PCB 25 (BZ)	23:08	1610808	316273	1.362	50.00	45.407993	90.82	45.407993		0.134
PCB 31 (BZ)	23:27	1426489	306523	1.285	50.00	42.593021	85.19	42.593021		0.141
PCB 28 (BZ)		2683123		1.238	100.0	83.163039	83.16	83.163039	C20	0.147
PCB 20 (BZ)	23:50	2683123	308599	1.238	100.0	83.163039	83.16	83.163039	C	0.147
PCB 21 (BZ)		3213463		1.276	100.0	96.688777	96.69	96.688777	C	0.143
PCB 33 (BZ)	24:02	3213463	340619	1.276	100.0	96.688777	96.69	96.688777	C21	0.143
PCB 22 (BZ)	24:27	1315311	280901	1.218	50.00	41.441783	82.88	41.441783		0.149
PCB 36 (BZ)	25:55	1552814	277371	1.286	50.00	46.352624	92.71	46.352624		0.141

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PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070928s1/a070928s1.d	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	9/28/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:05	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 39 (BZ)	26:19	1590478	297742	1.330	50.00	45.896318	91.79	45.896318		0.137
PCB 38 (BZ)	26:53	1393785	261955	1.246	50.00	42.932864	85.87	42.932864		0.146
PCB 35 (BZ)	27:25	1380225	237948	1.195	50.00	44.317832	88.64	44.317832		0.152
PCB 37 (BZ)	27:52	1363191	227625	1.224	50.00	42.733050	85.47	42.733050		0.148
Total Tetrachlorobiphenyl		46323383	6682614			1896.80803		1896.80803		6.66
13C12-PCB 54	21:05	1285041	297707	0.598	100.0	113.836805	113.84	113.836805		0.141
13C12-PCB 52	25:34	1689252	354185	1.000	100.0	100.000000	100.00	100.000000		0.104
13C12-PCB 79	33:29	1173152	208181	1.089	50.00	49.000701	98.00	49.000701	E	0.0912
13C12-PCB 81	34:32	2169630	376369	1.286	100.0	99.841269	99.84	99.841269		0.0812
13C12-PCB 77	35:09	2229032	368899	1.297	100.0	101.723199	101.72	101.723199		0.0805
PCB 54 (BZ)	21:08	769818	190117	1.211	50.00	49.465342	98.93	49.465342		0.234
PCB 50 (BZ)	23:13	1912886	227526	0.927	100.0	93.843565	93.84	93.843565	C	0.245
PCB 53 (BZ)		1912886		0.927	100.0	93.843565	93.84	93.843565	C50	0.245
PCB 45 (BZ)	23:57	1806378	356023	0.857	100.0	95.815302	95.82	95.815302	C	0.265
PCB 51 (BZ)		1806378		0.857	100.0	95.815302	95.82	95.815302	C45	0.265
PCB 46 (BZ)	24:17	774580	157651	0.706	50.00	49.861829	99.72	49.861829		0.321
PCB 52 (BZ)	25:35	880508	205049	0.926	50.00	43.237631	86.48	43.237631		0.245
PCB 73 (BZ)	25:43	2010778	270629	0.957	100.0	95.499401	95.50	95.499401	C43	0.237
PCB 43 (BZ)		2010778		0.957	100.0	95.499401	95.50	95.499401	C	0.237
PCB 69 (BZ)	25:56	1159647	255050	1.180	50.00	44.666481	89.33	44.666481		0.192
PCB 49 (BZ)	26:03	1046454	220919	1.005	50.00	47.328140	94.66	47.328140		0.226
PCB 48 (BZ)	26:20	854411	190611	0.886	50.00	43.849145	87.70	43.849145		0.256
PCB 65 (BZ)	26:33	2990423	419810	1.024	150.0	132.817072	88.54	132.817072	C44	0.222
PCB 47 (BZ)		2990423		1.024	150.0	132.817072	88.54	132.817072	C44	0.222
PCB 44 (BZ)		2990423		1.024	150.0	132.817072	88.54	132.817072	C	0.222
PCB 62 (BZ)	26:50	3947112	440752	1.297	150.0	138.422488	92.28	138.422488	C59	0.175
PCB 75 (BZ)		3947112		1.297	150.0	138.422488	92.28	138.422488	C59	0.175
PCB 59 (BZ)		3947112		1.297	150.0	138.422488	92.28	138.422488	C	0.175
PCB 42 (BZ)	27:09	880292	178953	0.860	50.00	46.563673	93.13	46.563673		0.264
PCB 41 (BZ)	27:33	681643	151590	0.723	50.00	42.846019	85.69	42.846019		0.313
PCB 71 (BZ)	27:40	1941645	275732	0.953	100.0	92.612902	92.61	92.612902	C40	0.238
PCB 40 (BZ)		1941645		0.953	100.0	92.612902	92.61	92.612902	C	0.238
PCB 64 (BZ)	27:52	1329403	270863	1.313	50.00	46.036426	92.07	46.036426		0.173
PCB 72 (BZ)	28:35	1229853	251469	1.257	50.00	44.482866	88.97	44.482866		0.180
PCB 68 (BZ)	28:52	1214126	266223	1.327	50.00	41.596313	83.19	41.596313		0.171
PCB 57 (BZ)	29:18	1157182	235314	1.194	50.00	44.065456	88.13	44.065456		0.190
PCB 58 (BZ)	29:35	1183411	247658	1.260	50.00	42.716302	85.43	42.716302		0.180
PCB 67 (BZ)	29:43	1289495	249592	1.286	50.00	45.578200	91.16	45.578200		0.176
PCB 63 (BZ)	29:59	1190430	243850	1.339	50.00	40.433025	80.87	40.433025		0.169
PCB 61 (BZ)	30:13	1025499	224165	1.190	50.00	39.178395	78.36	39.178395		0.191
PCB 70 (BZ)	30:23	3787352	736655	1.317	150.0	130.747596	87.17	130.747596	C	0.172
PCB 76 (BZ)		3787352		1.317	150.0	130.747596	87.17	130.747596	C70	0.172
PCB 74 (BZ)		3787352		1.317	150.0	130.747596	87.17	130.747596	C70	0.172
PCB 66 (BZ)	30:42	1143496	236657	1.289	50.00	40.328086	80.66	40.328086		0.176
PCB 55 (BZ)	30:54	1036779	219313	1.161	50.00	40.620185	81.24	40.620185		0.195
PCB 56 (BZ)	31:26	1165990	224489	1.231	50.00	43.071986	86.14	43.071986		0.184
PCB 60 (BZ)	31:38	1224629	214604	1.191	50.00	46.753680	93.51	46.753680		0.190
PCB 80 (BZ)	31:51	1496973	270781	1.416	50.00	48.066395	96.13	48.066395		0.160
PCB 79 (BZ)	33:30	1415765	239051	1.371	50.00	46.962243	93.92	46.962243		0.165

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PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070928s1/a070928s1.d	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	9/28/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:05	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 78 (BZ)	34:05	1209521	212144	1.181	50.00	46.555910	93.11	46.555910		0.192
PCB 81 (BZ)	34:34	1329026	229803	1.317	50.00	46.495345	92.99	46.495345		0.170
PCB 77 (BZ)	35:10	1237878	204020	1.200	50.00	46.290627	92.58	46.290627		0.191
Total Pentachlorobiphenyl		43782840	5257326			2178.23729		2178.23729		6.00
13C12-PCB 104	26:28	1966469	423444	1.260	100.0	102.512691	102.51	102.512691		0.109
13C12-PCB 95	29:31	699422	137263	0.741	50.00	48.018218	96.04	48.018218	E	0.129
13C12-PCB 101	32:20	1522734	294331	1.000	100.0	100.000000	100.00	100.000000		0.138
13C12-PCB 111	34:56	985947	186880	1.229	50.00	52.683499	105.37	52.683499	E	0.112
13C12-PCB 123	36:59	2281299	428036	0.955	100.0	96.645320	96.65	96.645320		0.0928
13C12-PCB 118	37:19	2499310	456479	0.988	100.0	102.291035	102.29	102.291035		0.0897
13C12-PCB 114	37:52	2337789	431250	0.971	100.0	97.381640	97.38	97.381640		0.0913
13C12-PCB 105	38:36	2306467	425305	0.941	100.0	99.096331	99.10	99.096331		0.0942
13C12-PCB 127	39:56	2472968	456986	1.000	100.0	100.000000	100.00	100.000000		0.0886
13C12-PCB 126	41:39	2480603	437977	0.978	100.0	102.583396	102.58	102.583396		0.0906
PCB 104 (BZ)	26:30	1055857	226412	1.149	50.00	46.710500	93.42	46.710500		0.153
PCB 96 (BZ)	27:01	933129	198524	1.014	50.00	46.818768	93.64	46.818768		0.174
PCB 103 (BZ)	28:44	795169	164329	0.866	50.00	46.673182	93.35	46.673182		0.203
PCB 94 (BZ)	29:03	697301	143125	0.703	50.00	50.454778	100.91	50.454778		0.250
PCB 95 (BZ)	29:33	1585537	283371	0.859	100.0	93.893675	93.89	93.893675	C	0.205
PCB 100 (BZ)		1585537		0.859	100.0	93.893675	93.89	93.893675	C95	0.205
PCB 93 (BZ)	29:44	675840	147637	0.701	50.00	48.997410	97.99	48.997410		0.251
PCB 102 (BZ)	29:51	1564160	204610	0.822	100.0	96.736442	96.74	96.736442	C98	0.214
PCB 98 (BZ)		1564160		0.822	100.0	96.736442	96.74	96.736442	C	0.214
PCB 88 (BZ)	30:14	646921	136157	0.723	50.00	45.506371	91.01	45.506371		0.243
PCB 91 (BZ)	30:22	775131	155886	0.864	50.00	45.633796	91.27	45.633796		0.204
PCB 84 (BZ)	30:42	559338	114732	0.679	50.00	41.868289	83.74	41.868289		0.259
PCB 89 (BZ)	31:08	635674	135551	0.717	50.00	45.067711	90.14	45.067711		0.245
PCB 121 (BZ)	31:18	1125197	218759	1.105	50.00	51.779913	103.56	51.779913		0.159
PCB 92 (BZ)	31:47	702583	145145	0.772	50.00	46.259025	92.52	46.259025		0.228
PCB 113 (BZ)	32:20	2791198	492552	0.990	150.0	143.426491	95.62	143.426491	C90	0.178
PCB 90 (BZ)		2791198		0.990	150.0	143.426491	95.62	143.426491	C	0.178
PCB 101 (BZ)		2791198		0.990	150.0	143.426491	95.62	143.426491	C90	0.178
PCB 83 (BZ)	32:55	1475723	300410	0.777	100.0	96.625320	96.63	96.625320	C	0.227
PCB 99 (BZ)		1475723		0.777	100.0	96.625320	96.63	96.625320	C83	0.227
PCB 112 (BZ)	33:04	1045977	209023	1.079	50.00	49.298161	98.60	49.298161		0.163
PCB 109 (BZ)/108 (IUPAC)	33:23	5565813	417020	0.967	300.0	292.759983	97.59	292.759983	C86	0.182
PCB 86 (BZ)		5565813		0.967	300.0	292.759983	97.59	292.759983	C	0.182
PCB 119 (BZ)		5565813		0.967	300.0	292.759983	97.59	292.759983	C86	0.182
PCB 97 (BZ)		5565813		0.967	300.0	292.759983	97.59	292.759983	C86	0.182
PCB 125 (BZ)		5565813		0.967	300.0	292.759983	97.59	292.759983	C86	0.182
PCB 87 (BZ)		5565813		0.967	300.0	292.759983	97.59	292.759983	C86	0.182
PCB 117 (BZ)	34:06	2764933	230617	0.979	150.0	143.600388	95.73	143.600388	C85	0.180
PCB 116 (BZ)		2764933		0.979	150.0	143.600388	95.73	143.600388	C85	0.180
PCB 85 (BZ)		2764933		0.979	150.0	143.600388	95.73	143.600388	C	0.180
PCB 110 (BZ)	34:25	2200088	379065	1.139	100.0	98.249562	98.25	98.249562	C	0.155
PCB 115 (BZ)		2200088		1.139	100.0	98.249562	98.25	98.249562	C110	0.155
PCB 82 (BZ)	34:49	555971	114973	0.605	50.00	46.759829	93.52	46.759829		0.291
PCB 111 (BZ)	34:57	1114480	218417	1.129	50.00	50.209818	100.42	50.209818		0.156
PCB 120 (BZ)	35:25	1065616	203753	1.192	50.00	45.454868	90.91	45.454868		0.148

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PCB's by EPA Method 1668A

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Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070928s1/a070928s1.d	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	9/28/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:05	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 124 (BZ)		2460648		1.123	100.0	91.982578	91.98	91.982578	C108	0.152
PCB 108 (BZ)/107 (IUPAC)	36:40	2460648	467608	1.123	100.0	91.982578	91.98	91.982578	C	0.152
PCB 107 (BZ)/109 (IUPAC)	36:54	1129431	227098	1.074	50.00	44.160338	88.32	44.160338		0.159
PCB 123 (BZ)	37:01	1228735	239922	1.136	50.00	47.412309	94.82	47.412309		0.153
PCB 106 (BZ)	37:08	1237171	224673	1.046	50.00	49.670430	99.34	49.670430		0.163
PCB 118 (BZ)	37:20	1220162	232675	1.094	50.00	44.637128	89.27	44.637128		0.149
PCB 122 (BZ)	37:45	1054163	220127	1.047	50.00	42.266597	84.53	42.266597		0.163
PCB 114 (BZ)	37:53	1405822	248211	1.196	50.00	50.275313	100.55	50.275313		0.144
PCB 105 (BZ)	38:37	1210220	227239	1.218	50.00	43.074936	86.15	43.074936		0.144
PCB 127 (BZ)	39:57	1255405	234546	1.130	50.00	46.637822	93.28	46.637822		0.151
PCB 126 (BZ)	41:40	1249447	207976	1.111	50.00	45.335558	90.67	45.335558		0.153
Total Hexachlorobiphenyl		41360108	6179928			1948.67911		1948.67911		7.75
13C12-PCB 155	31:58	2013729	419119	1.178	100.0	112.270098	112.27	112.270098		0.103
13C12-PCB 153	39:05	931310	177079	0.833	50.00	46.982911	93.97	46.982911	E	0.127
13C12-PCB 138	40:25	1877104	355042	1.000	100.0	100.000000	100.00	100.000000		0.101
13C12-PCB 167	43:20	2427989	470050	1.237	100.0	104.596028	104.60	104.596028		0.0814
13C12-PCB 156	44:37	4830051	490405	1.229	200.0	209.400999	104.70	209.400999		0.0819
13C12-PCB 157								ND		0.000000
13C12-PCB 169	47:48	2255612	395679	1.188	100.0	101.184602	101.18	101.184602		0.0848
PCB 155 (BZ)	31:59	1041241	223687	1.117	50.00	46.288401	92.58	46.288401		0.167
PCB 152 (BZ)	32:24	866879	202585	1.023	50.00	42.068427	84.14	42.068427		0.182
PCB 150 (BZ)	32:29	1101982	212480	1.032	50.00	53.011079	106.02	53.011079		0.180
PCB 136 (BZ)	33:00	940847	195812	0.967	50.00	48.338299	96.68	48.338299		0.193
PCB 145 (BZ)	33:12	991617	197002	1.021	50.00	48.252624	96.51	48.252624		0.182
PCB 148 (BZ)	34:33	710222	142297	0.749	50.00	47.088946	94.18	47.088946		0.248
PCB 151 (BZ)		2247445		0.781	150.0	142.992212	95.33	142.992212	C135	0.238
PCB 135 (BZ)	35:23	2247445	260263	0.781	150.0	142.992212	95.33	142.992212	C	0.238
PCB 154 (BZ)		2247445		0.781	150.0	142.992212	95.33	142.992212	C135	0.238
PCB 144 (BZ)	35:48	719956	146353	0.759	50.00	47.125979	94.25	47.125979		0.245
PCB 147 (BZ)	36:10	1829412	304303	0.862	100.0	89.255355	89.26	89.255355	C	0.267
PCB 149 (BZ)		1829412		0.862	100.0	89.255355	89.26	89.255355	C147	0.267
PCB 134 (BZ)		1570445		0.711	100.0	92.810512	92.81	92.810512	C	0.323
PCB 143 (BZ)	36:32	1570445	177447	0.711	100.0	92.810512	92.81	92.810512	C134	0.323
PCB 139 (BZ)	36:44	1872713	281323	0.856	100.0	92.016280	92.02	92.016280	C	0.269
PCB 140 (BZ)		1872713		0.856	100.0	92.016280	92.02	92.016280	C139	0.269
PCB 131 (BZ)	37:01	723623	144336	0.713	50.00	42.641706	85.28	42.641706		0.322
PCB 142 (BZ)	37:10	789025	152796	0.735	50.00	45.137218	90.27	45.137218		0.313
PCB 132 (BZ)	37:33	747341	148260	0.710	50.00	44.243968	88.49	44.243968		0.324
PCB 133 (BZ)	37:52	824040	172498	0.768	50.00	45.091011	90.18	45.091011		0.299
PCB 165 (BZ)	38:15	1099332	219122	0.993	50.00	46.555667	93.11	46.555667		0.232
PCB 146 (BZ)	38:30	917351	191420	0.874	50.00	44.145848	88.29	44.145848		0.263
PCB 161 (BZ)	38:37	1257678	237806	1.090	50.00	48.528259	97.06	48.528259		0.211
PCB 153 (BZ)	39:07	2382934	379737	1.068	100.0	93.769771	93.77	93.769771	C	0.215
PCB 168 (BZ)		2382934		1.068	100.0	93.769771	93.77	93.769771	C153	0.215
PCB 141 (BZ)	39:23	877124	167260	0.756	50.00	48.795700	97.59	48.795700		0.304
PCB 130 (BZ)	39:49	762352	154969	0.708	50.00	45.244099	90.49	45.244099		0.325
PCB 137 (BZ)	40:00	948066	183472	0.835	50.00	47.733190	95.47	47.733190		0.275
PCB 164 (BZ)	40:10	1153105	220761	1.033	50.00	46.925052	93.85	46.925052		0.223
PCB 138 (BZ)	40:26	4117696	413673	0.922	200.0	187.768865	93.88	187.768865	C129	0.250

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070928s1/a070928s1.d	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	9/28/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:05	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 163 (BZ)		4117696		0.922	200.0	187.768865	93.88	187.768865	C129	0.250
PCB 129 (BZ)		4117696		0.922	200.0	187.768865	93.88	187.768865	C	0.250
PCB 160 (BZ)		4117696		0.922	200.0	187.768865	93.88	187.768865	C129	0.250
PCB 158 (BZ)	40:48	1324805	246917	1.191	50.00	46.761299	93.52	46.761299		0.193
PCB 166 (BZ)	41:38	1180194	219938	1.102	50.00	45.020697	90.04	45.020697		0.209
PCB 128 (BZ)	41:48	897439	159007	0.769	50.00	49.077105	98.15	49.077105		0.299
PCB 159 (BZ)	42:35	1208851	221323	1.079	50.00	47.095188	94.19	47.095188		0.213
PCB 162 (BZ)	42:54	1216820	229959	1.079	50.00	47.420699	94.84	47.420699		0.213
PCB 167 (BZ)	43:22	1253527	235825	1.150	50.00	44.884989	89.77	44.884989		0.144
PCB 156 (BZ)		2492465		1.151	100.0	89.696197	89.70	89.696197	C	0.276
PCB 157 (BZ)	44:39	2492465	247733	1.151		89.696197		89.696197	C156	0.276
PCB 169 (BZ)	47:49	1293581	219047	1.337	50.00	42.894469	85.79	42.894469		0.147
Total Heptachlorobiphenyl		22513054	3715504			1138.48583		1138.48583		4.04
13C12-PCB 188	37:41	2228359	444506	1.238	100.0	99.303669	99.30	99.303669		0.0775
13C12-PCB 178	40:46	735758	144781	0.863	50.00	47.035595	94.07	47.035595	E	0.111
13C12-PCB 180	45:50	1812388	351635	1.000	100.0	100.000000	100.00	100.000000		0.0960
13C12-PCB 170	47:11	1534680	287455	0.813	100.0	104.093201	104.09	104.093201		0.118
13C12-PCB 189	50:14	2389775	445381	1.620	100.0	96.291156	96.29	96.291156		0.0690
PCB 188 (BZ)	37:43	1130384	228292	1.071	50.00	47.380663	94.76	47.380663		0.145
PCB 179 (BZ)	38:12	1080153	210653	1.200	50.00	47.846830	95.69	47.846830		0.157
PCB 184 (BZ)	38:33	1045250	213061	1.178	50.00	47.147418	94.29	47.147418		0.160
PCB 176 (BZ)	39:04	1127847	224226	1.252	50.00	47.879956	95.76	47.879956		0.151
PCB 186 (BZ)	39:32	1076623	208028	1.214	50.00	47.121514	94.24	47.121514		0.155
PCB 178 (BZ)	40:47	781136	152643	0.889	50.00	46.682157	93.36	46.682157		0.212
PCB 175 (BZ)	41:25	828819	166106	0.920	50.00	47.875510	95.75	47.875510		0.205
PCB 187 (BZ)	41:41	879694	174154	1.009	50.00	46.345514	92.69	46.345514		0.187
PCB 182 (BZ)	41:52	893915	173461	0.972	50.00	48.883698	97.77	48.883698		0.194
PCB 183 (BZ)	42:16	864764	176116	0.946	50.00	48.576127	97.15	48.576127		0.199
PCB 185 (BZ)	42:26	806481	158585	0.919	50.00	46.645921	93.29	46.645921		0.205
PCB 174 (BZ)	42:38	807342	155117	0.924	50.00	46.436104	92.87	46.436104		0.204
PCB 177 (BZ)	43:04	744279	143806	0.880	50.00	44.976850	89.95	44.976850		0.214
PCB 181 (BZ)	43:23	857032	167955	0.975	50.00	46.730333	93.46	46.730333		0.193
PCB 171 (BZ)		1502512		0.835	100.0	95.632342	95.63	95.632342	C	0.226
PCB 173 (BZ)	43:40	1502512	294324	0.835	100.0	95.632342	95.63	95.632342	C171	0.226
PCB 172 (BZ)	45:13	753641	151139	0.838	50.00	47.786628	95.57	47.786628		0.225
PCB 192 (BZ)	45:28	1022418	203311	1.147	50.00	47.363904	94.73	47.363904		0.164
PCB 193 (BZ)	45:50	2035318	312545	1.134	100.0	95.390509	95.39	95.390509	C180	0.166
PCB 180 (BZ)		2035318		1.134	100.0	95.390509	95.39	95.390509	C	0.166
PCB 191 (BZ)	46:13	1126125	218876	1.228	50.00	48.749049	97.50	48.749049		0.154
PCB 170 (BZ)	47:13	762522	148390	1.058	50.00	46.979848	93.96	46.979848		0.227
PCB 190 (BZ)	47:41	1180247	221239	1.254	50.00	50.040597	100.08	50.040597		0.150
PCB 189 (BZ)	50:15	1206552	220346	1.097	50.00	46.014358	92.03	46.014358		0.141
Total Octachlorobiphenyl		10348204	1745891			577.485589		577.485589		1.46
13C12-PCB 202	43:02	1909440	382776	0.994	100.0	106.013857	106.01	106.013857		0.0737
13C12-PCB 194	52:16	1531557	301699	1.000	100.0	100.000000	100.00	100.000000		0.0853
13C12-PCB 205	52:44	2239734	422358	1.407	100.0	103.955193	103.96	103.955193		0.0607
PCB 202 (BZ)	43:04	905767	179949	0.993	50.00	47.784429	95.57	47.784429		0.123
PCB 200 (BZ)/201 (IUPAC)	43:57	1006788	195930	1.087	50.00	48.507711	97.02	48.507711		0.112
PCB 204 (BZ)	44:35	914695	187722	1.033	50.00	46.360434	92.72	46.360434		0.118

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PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070928s1/a070928s1.d	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	9/28/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	12:05	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 197 (BZ)	44:50	993873	197102	1.061	50.00	49.041412	98.08	49.041412		0.115
PCB 199 (BZ)/200 (IUPAC)	45:04	979691	193694	1.031	50.00	49.770429	99.54	49.770429		0.118
PCB 198 (BZ)		1411697		0.761	100.0	97.176434	97.18	97.176434	C	0.161
PCB 201 (BZ)/199 (IUPAC)	47:48	1411697	158900	0.761	100.0	97.176434	97.18	97.176434	C198	0.161
PCB 196 (BZ)	48:26	695960	132535	0.752	50.00	48.461631	96.92	48.461631		0.162
PCB 203 (BZ)	48:36	771415	148447	0.856	50.00	47.196880	94.39	47.196880		0.143
PCB 195 (BZ)	50:01	786170	153393	0.723	50.00	48.580566	97.16	48.580566		0.153
PCB 194 (BZ)	52:17	854545	164096	0.795	50.00	47.999279	96.00	47.999279		0.139
PCB 205 (BZ)	52:46	1027603	193023	0.984	50.00	46.606384	93.21	46.606384		0.112
Total Nonachlorobiphenyl		2765092	548505			140.735866		140.735866		0.231
13C12-PCB 208	49:38	2066208	403084	1.161	100.0	116.193286	116.19	116.193286		0.0764
13C12-PCB 206	54:25	1428334	276708	0.823	100.0	113.363672	113.36	113.363672		0.108
PCB 208 (BZ)	49:40	1004282	198684	1.026	50.00	47.359892	94.72	47.359892		0.0695
PCB 207 (BZ)	50:34	1023532	203641	1.264	50.00	46.342903	92.69	46.342903		0.0669
PCB 206 (BZ)	54:26	737278	146180	1.097	50.00	47.033071	94.07	47.033071		0.0947
13C12-PCB 209	55:58	1746628	313108	0.930	100.0	122.613432	122.61	122.613432		0.0998
PCB 209 (BZ)	55:59	799815	139511	1.006	50.00	45.531865	91.06	45.531865		0.0603

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PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070928s1/a070928s1.	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	09/28/07 12:05	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	258	175	103	70	1.47 *	/	
	PCB 1 (BZ)	12:17	12:18	-1	1260299	397318	420272	131405	3.17	AVB/AVB	
	PCB 2 (BZ)	14:18	14:20	-2	1193491	376431	350561	112364	3.17	ABV/ABV	
	PCB 3 (BZ)	14:30	14:30	0	1291349	397441	374946	117138	3.25	AVB/AVV	
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	313	215	125	86	1.45 *	/	
	13C12-PCB 1	12:16	12:17	-1	2321748	743937	846838	267749	3.12	AVV/AVV	
	13C12-PCB 3	14:29	14:29	0	2330423	727045	650276	206803	3.21	ABV/ABV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	430	640	172	256	0.67 *	/	
	PCB 4 (BZ)	14:47	14:47	0	511533	330362	155883	102977	1.55	ABV/ABV	
	PCB 10 (BZ)	14:56	14:58	-2	809762	504234	235379	147313	1.61	AVV/AVB	
	PCB 9 (BZ)	16:44	16:45	-1	851811	531902	225259	144878	1.60	ABV/ABV	
	PCB 7 (BZ)	16:52	16:54	-2	922080	569706	228659	139193	1.62	AVV/AVV	
	PCB 6 (BZ)	17:10	17:11	-1	871671	536810	232600	144347	1.62	AVB/AVB	
	PCB 5 (BZ)	17:29	17:30	-1	760408	468792	197270	119829	1.62	ABV/ABV	
	PCB 8 (BZ)	17:37	17:38	-1	853651	531725	222379	137420	1.61	AVB/AVB	
	PCB 14 (BZ)	19:11	19:12	-1	978483	624835	236426	141797	1.57	ABV/ABV	
	PCB 11 (BZ)	20:06	20:07	-1	824538	508878	167370	102944	1.62	ABV/ABV	
	PCB 13 (BZ)	20:26	20:23	3	1625786	1020057	283013	179461	1.59	AVV/AVV	
	PCB 15 (BZ)	20:46	20:44	2	837515	515662	171764	108405	1.62	AVB/AVB	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	303	230	121	92	1.32 *	/	
	13C12-PCB 4	14:46	14:46	0	957647	600328	276771	171871	1.60	ABV/ABV	
	13C12-PCB 9	16:42	16:43	-1	1592130	983984	399407	242912	1.62	ABV/ABV	
	13C12-PCB 8	17:36	17:36	0	806567	511457	202288	124938	1.58	AVV/AVV	
	13C12-PCB 15	20:45	20:44	1	1596889	984945	320390	207394	1.62	ABV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	405	405	162	162	1.00	/	
	PCB 19 (BZ)	17:58	17:59	-1	362615	338410	91492	86452	1.07	ABV/ABB	
	PCB 30 (BZ)	19:39	19:41	-2	539856	516342	134090	126616	1.05	ABV/ABV	D
	PCB 18 (BZ)	19:48	19:48	0	392974	374348	88661	85421	1.05	AVB/AVB	
	PCB 17 (BZ)	20:12	20:13	-1	396066	370055	96285	89326	1.07	ABB/ABV	
	PCB 27 (BZ)	20:27	20:28	-1	515184	483624	132613	121590	1.07	ABV/AVV	
	PCB 24 (BZ)	20:34	20:34	0	525347	500145	125847	117893	1.05	AVV/AVV	
	PCB 16 (BZ)	20:44	20:44	0	299645	282269	73428	69491	1.06	AVB/AVB	
	PCB 32 (BZ)	21:13	21:14	-1	590826	545354	132725	124889	1.08	ABV/ABV	
	PCB 34 (BZ)	22:25	22:26	-1	665110	647968	161231	157962	1.03	ABV/ABV	D
	PCB 23 (BZ)	22:32	22:33	-1	773808	759877	167479	166111	1.02	AVB/AVB	D
	PCB 29 (BZ)	22:53	22:53	0	1466059	1427993	283411	274296	1.03	ABV/ABV	
	PCB 25 (BZ)	23:08	23:07	1	817069	793739	160065	156208	1.03	AVV/AVV	
	PCB 31 (BZ)	23:27	23:28	-1	714473	712016	154559	151964	1.00	AVB/AVV	
	PCB 20 (BZ)	23:50	23:49	1	1352110	1331013	154802	153797	1.02	ABV/ABV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

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IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070928s1/a070928s1.	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	09/28/07 12:05	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	PCB 33 (BZ)	24:02	24:02	0	1626678	1586785	171074	169545	1.03	AVV/AVV	
	PCB 22 (BZ)	24:27	24:26	1	662660	652651	140340	140561	1.02	ABB/AVB	
	PCB 36 (BZ)	25:55	25:56	-1	786366	766448	144748	132623	1.03	AVV/AVV	D
	PCB 39 (BZ)	26:19	26:17	2	801846	788632	153182	144560	1.02	AVV/AVV	
	PCB 38 (BZ)	26:53	26:53	0	695630	698155	129947	132008	1.00	AVV/AVV	D
	PCB 35 (BZ)	27:25	27:24	1	682873	697352	121057	116891	0.98	ABV/AVV	D
	PCB 37 (BZ)	27:52	27:49	3	684100	679091	115231	112394	1.01	AVV/AVV	
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	395	330	158	132	1.20	/	
	13C12-PCB 19	17:57	17:57	0	603172	565045	158857	144779	1.07	AVV/AVV	
	13C12-PCB 32	21:12	21:12	0	989357	899689	232902	207398	1.10	ABV/AVV	
	13C12-PCB 31	23:26	23:26	0	1457483	1371488	311363	283347	1.06	ABV/ABV	
	13C12-PCB 28	23:43	23:43	0	766193	739844	146097	142448	1.04	AVV/AVV	
	13C12-PCB 37	27:51	27:47	4	1342826	1262604	229820	215725	1.06	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	438	408	175	163	1.07 *	/	
	PCB 54 (BZ)	21:08	21:06	2	343231	426587	84846	105271	0.80	ABV/ABB	
	PCB 50 (BZ)	23:13	23:12	1	831041	1081845	98431	129095	0.77	ABV/ABV	
	PCB 45 (BZ)	23:57	23:55	2	789615	1016763	151565	204458	0.78	AVV/AVV	
	PCB 46 (BZ)	24:17	24:16	1	327535	447045	64546	93105	0.73	AVV/AVV	
	PCB 52 (BZ)	25:35	25:35	0	388490	492018	89294	115755	0.79	ABV/ABV	D
	PCB 73 (BZ)	25:43	25:42	1	883148	1127630	118450	152179	0.78	AVV/AVV	
	PCB 69 (BZ)	25:56	25:57	-1	509183	650464	112420	142630	0.78	AVV/AVV	
	PCB 49 (BZ)	26:03	26:04	-1	462081	584373	99125	121794	0.79	AVB/AVB	
	PCB 48 (BZ)	26:20	26:20	0	371086	483325	80935	109676	0.77	ABV/ABV	D
	PCB 65 (BZ)	26:33	26:33	0	1304717	1685706	178981	240829	0.77	AVV/AVV	
	PCB 62 (BZ)	26:50	26:49	1	1732885	2214227	198117	242635	0.78	AVV/AVV	
	PCB 42 (BZ)	27:09	27:08	1	389472	490820	80934	98019	0.79	AVB/AVB	
	PCB 41 (BZ)	27:33	27:33	0	291395	390248	66627	84963	0.75	ABV/ABV	
	PCB 71 (BZ)	27:40	27:38	2	854988	1086657	119701	156031	0.79	AVV/AVV	
	PCB 64 (BZ)	27:52	27:50	2	588486	740917	120385	150478	0.79	AVB/AVB	
	PCB 72 (BZ)	28:35	28:38	-3	543123	686730	113272	138197	0.79	ABV/ABV	D
	PCB 68 (BZ)	28:52	28:53	-1	536385	677741	114581	151642	0.79	AVB/AVB	
	PCB 57 (BZ)	29:18	29:19	-1	504265	652917	101567	133747	0.77	ABV/ABV	D
	PCB 58 (BZ)	29:35	29:35	0	517736	665675	110741	136917	0.78	AVV/AVV	
	PCB 67 (BZ)	29:43	29:42	1	567184	722311	108693	140899	0.79	AVV/AVV	
	PCB 63 (BZ)	29:59	30:00	-1	530185	660245	109524	134326	0.80	AVB/AVB	
	PCB 61 (BZ)	30:13	30:13	0	449627	575872	96540	127625	0.78	ABV/ABV	
	PCB 70 (BZ)	30:23	30:21	2	1654851	2132501	320194	416461	0.78	AVB/AVB	
	PCB 66 (BZ)	30:42	30:41	1	498441	645055	103670	132987	0.77	ABV/ABV	
	PCB 55 (BZ)	30:54	30:53	1	453696	583083	94594	124719	0.78	AVB/AVB	
	PCB 56 (BZ)	31:26	31:24	2	508570	657420	99887	124602	0.77	ABV/ABV	
	PCB 60 (BZ)	31:38	31:36	2	540130	684499	95835	118769	0.79	AVV/AVV	
	PCB 80 (BZ)	31:51	31:52	-1	651116	845857	114708	156073	0.77	AVB/AVB	D

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070928s1/a070928s1.	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	09/28/07 12:05	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	PCB 79 (BZ)	33:30	33:29	1	632532	783233	105093	133958	0.81	ABV/ABV	
	PCB 78 (BZ)	34:05	34:04	1	519060	690461	89904	122240	0.75	AVV/ABV	
	PCB 81 (BZ)	34:34	34:31	3	581761	747265	100244	129559	0.78	AVV/AVV	
	PCB 77 (BZ)	35:10	35:06	4	542030	695848	87393	116627	0.78	ABV/ABV	M
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	198	173	79	69	1.14 *	/	
	13C12-PCB 54	21:05	21:05	0	581433	703608	135908	161799	0.83	ABV/ABV	
	13C12-PCB 52	25:34	25:34	0	748292	940960	157857	196328	0.80	ABV/ABV	
	13C12-PCB 79	33:29	33:27	2	521876	651276	94081	114100	0.80	ABV/ABV	
	13C12-PCB 81	34:32	34:29	3	954639	1214991	165463	210906	0.79	ABV/ABV	
	13C12-PCB 77	35:09	35:05	4	968362	1260670	161846	207053	0.77	ABV/ABV	M
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	410	335	164	134	1.22 *	/	
	PCB 104 (BZ)	26:30	26:31	-1	649768	406089	138837	87575	1.60	ABV/ABV	
	PCB 96 (BZ)	27:01	27:00	1	578572	354557	125159	73365	1.63	AVV/AVV	
	PCB 103 (BZ)	28:44	28:48	-4	486656	308513	98573	65756	1.58	ABV/ABV	
	PCB 94 (BZ)	29:03	29:03	0	429658	267643	87359	55766	1.61	AVV/AVV	
	PCB 95 (BZ)	29:33	29:33	0	986472	599065	177033	106338	1.65	ABV/ABV	
	PCB 93 (BZ)	29:44	29:42	2	420047	255793	89912	57725	1.64	AVV/AVV	
	PCB 102 (BZ)	29:51	29:50	1	961975	602185	126456	78154	1.60	AVB/AVB	
	PCB 88 (BZ)	30:14	30:15	-1	403280	243641	83305	52852	1.66	ABV/ABV	
	PCB 91 (BZ)	30:22	30:22	0	476732	298399	94939	60947	1.60	AVB/AVB	
	PCB 84 (BZ)	30:42	30:39	3	345502	213836	71264	43468	1.62	ABB/ABB	D
	PCB 89 (BZ)	31:08	31:07	1	387541	248133	82183	53368	1.56	ABV/ABV	
	PCB 121 (BZ)	31:18	31:21	-3	698185	427012	136018	82741	1.64	AVV/AVV	
	PCB 92 (BZ)	31:47	31:49	-2	429232	273351	88694	56451	1.57	ABB/ABB	
	PCB 113 (BZ)	32:20	32:20	0	1719468	1071730	297079	195473	1.60	ABV/ABV	
	PCB 83 (BZ)	32:55	32:54	1	919779	555944	187120	113290	1.65	ABV/ABV	
	PCB 112 (BZ)	33:04	33:04	0	646876	399101	127776	81247	1.62	AVB/AVB	
	PCB 109 (BZ)/108 (IUPAC	33:23	33:24	-1	3437771	2128042	254832	162188	1.62	ABB/ABB	
	PCB 117 (BZ)	34:06	34:05	1	1702550	1062383	142133	88484	1.60	ABV/ABV	
	PCB 110 (BZ)	34:25	34:24	1	1352673	847415	235047	144018	1.60	AVB/AVB	
	PCB 82 (BZ)	34:49	34:46	3	340469	215502	70829	44144	1.58	ABV/ABV	
	PCB 111 (BZ)	34:57	35:00	-3	690489	423991	135235	83182	1.63	AVV/AVB	D
	PCB 120 (BZ)	35:25	35:27	-2	662789	402827	128636	75117	1.65	AVB/AVB	D
	PCB 108 (BZ)/107 (IUPAC	36:40	36:39	1	1514362	946286	284869	182739	1.60	AVV/AVV	
	PCB 107 (BZ)/109 (IUPAC	36:54	36:53	1	693009	436422	141637	85461	1.59	AVV/AVV	
	PCB 123 (BZ)	37:01	36:59	2	743504	485231	145712	94210	1.53	AVV/AVV	
	PCB 106 (BZ)	37:08	37:08	0	763062	474109	136468	88205	1.61	AVV/AVV	
	PCB 118 (BZ)	37:20	37:20	0	741198	478964	140870	91805	1.55	AVB/AVB	
	PCB 122 (BZ)	37:45	37:44	1	653110	401053	138903	81224	1.63	ABV/ABV	
	PCB 114 (BZ)	37:53	37:52	1	854880	550942	151721	96490	1.55	AVV/AVV	
	PCB 105 (BZ)	38:37	38:34	3	728802	481418	134736	92503	1.51	ABB/ABB	
	PCB 127 (BZ)	39:57	39:57	0	779685	475720	146829	87717	1.64	AVV/AVV	D

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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070928s1/a070928s1.	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	09/28/07 12:05	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	PCB 126 (BZ)	41:40	41:35	5	772873	476574	124955	83021	1.62	ABV/ABV	M
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	220	185	88	74	1.19 *	/	
	13C12-PCB 104	26:28	26:29	-1	1216390	750079	258440	165004	1.62	ABV/ABV	
	13C12-PCB 95	29:31	29:30	1	437094	262328	85088	52175	1.67	ABV/ABV	
	13C12-PCB 101	32:20	32:20	0	957307	565427	184908	109423	1.69	ABV/ABV	
	13C12-PCB 111	34:56	34:58	-2	605402	380545	112575	74305	1.59	ABV/ABV	
	13C12-PCB 123	36:59	36:59	0	1395951	885348	261634	166402	1.58	ABV/ABV	
	13C12-PCB 118	37:19	37:18	1	1544241	955069	283070	173409	1.62	AVV/AVV	
	13C12-PCB 114	37:52	37:50	2	1443494	894295	269951	161299	1.61	AVV/AVV	
	13C12-PCB 105	38:36	38:32	4	1421363	885104	261464	163841	1.61	ABB/ABV	
	13C12-PCB 127	39:56	39:55	1	1530885	942083	285701	171285	1.63	ABV/ABV	
	13C12-PCB 126	41:39	41:34	5	1512581	968022	270011	167966	1.56	ABV/ABV	M
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	425	355	170	142	1.20	/	
	PCB 155 (BZ)	31:59	32:03	-4	588535	452706	126644	97043	1.30	ABV/ABV	
	PCB 152 (BZ)	32:24	32:24	0	487835	379044	112623	89962	1.29	ABV/ABV	
	PCB 150 (BZ)	32:29	32:30	-1	619827	482155	117067	95413	1.29	AVB/AVB	
	PCB 136 (BZ)	33:00	32:59	1	536323	404524	109715	86097	1.33	ABV/ABV	D
	PCB 145 (BZ)	33:12	33:12	0	557250	434367	111055	85947	1.28	AVB/AVB	D
	PCB 148 (BZ)	34:33	34:37	-4	403738	306484	79990	62307	1.32	ABV/ABV	
	PCB 135 (BZ)	35:23	35:21	2	1257339	990106	143099	117164	1.27	AVB/AVV	D
	PCB 144 (BZ)	35:48	35:49	-1	410374	309582	83755	62598	1.33	ABB/ABB	
	PCB 147 (BZ)	36:10	36:10	0	1031574	797838	170379	133924	1.29	ABV/ABV	
	PCB 143 (BZ)	36:32	36:32	0	870070	700375	99684	77763	1.24	AVV/AVV	
	PCB 139 (BZ)	36:44	36:44	0	1050197	822516	155578	125745	1.28	AVV/AVV	
	PCB 131 (BZ)	37:01	37:00	1	400289	323334	80719	63617	1.24	AVV/AVV	D
	PCB 142 (BZ)	37:10	37:10	0	434753	354272	84406	68390	1.23	AVB/AVB	D
	PCB 132 (BZ)	37:33	37:32	1	417392	329949	83663	64597	1.27	ABB/ABB	
	PCB 133 (BZ)	37:52	37:54	-2	462895	361145	95612	76886	1.28	ABB/ABB	
	PCB 165 (BZ)	38:15	38:17	-2	613561	485771	123540	95582	1.26	ABV/ABV	
	PCB 146 (BZ)	38:30	38:30	0	513480	403871	108078	83342	1.27	AVV/AVV	
	PCB 161 (BZ)	38:37	38:39	-2	706599	551079	130340	107466	1.28	AVB/AVB	
	PCB 153 (BZ)	39:07	39:08	-1	1324796	1058138	208046	171691	1.25	ABV/ABV	
	PCB 141 (BZ)	39:23	39:22	1	488501	388623	92842	74418	1.26	AVB/AVV	
	PCB 130 (BZ)	39:49	39:48	1	421871	340481	86336	68633	1.24	ABV/ABV	
	PCB 137 (BZ)	40:00	39:59	1	525129	422937	100896	82576	1.24	AVV/AVV	
	PCB 164 (BZ)	40:10	40:08	2	639958	513147	121572	99189	1.25	AVV/AVV	
	PCB 138 (BZ)	40:26	40:26	0	2292383	1825313	231133	182540	1.26	AVV/AVV	
	PCB 158 (BZ)	40:48	40:47	1	739959	584846	139033	107884	1.27	AVB/AVB	
	PCB 166 (BZ)	41:38	41:37	1	656013	524181	121225	98713	1.25	ABV/ABV	
	PCB 128 (BZ)	41:48	41:44	4	502788	394651	89665	69342	1.27	AVV/AVV	
	PCB 159 (BZ)	42:35	42:36	-1	675312	533539	120648	100675	1.27	ABV/AVV	
	PCB 162 (BZ)	42:54	42:53	1	672832	543988	128277	101682	1.24	AVV/AVV	

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PCB's by EPA Method 1668A

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Workorder	2990:71	Prep Batch		Lot No	
Data File	/20070928s1/a070928s1.	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	09/28/07 12:05	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	PCB 167 (BZ)	43:22	43:23	-1	697146	556381	135352	100473	1.25	ABB/ABB	
	PCB 157 (BZ)	44:39	44:36	3	1392419	1100046	136973	110760	1.27	ABB/ABB	
	PCB 169 (BZ)	47:49	47:45	4	721361	572220	121564	97483	1.26	ABV/AVV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	195	163	78	65	1.20	/	
	13C12-PCB 155	31:58	32:02	-4	1137520	876209	234819	184300	1.30	ABV/ABV	
	13C12-PCB 153	39:05	39:05	0	525375	405935	100864	76215	1.29	ABV/ABV	
	13C12-PCB 138	40:25	40:24	1	1052930	824174	198666	156376	1.28	ABV/ABV	
	13C12-PCB 167	43:20	43:20	0	1353976	1074013	262039	208011	1.26	ABV/ABV	
	13C12-PCB 156	44:37	44:29	8	2701924	2128127	276520	213885	1.27	AVV/AVV	M
	13C12-PCB 169	47:48	47:44	4	1260425	995187	219880	175799	1.27	ABV/ABV	
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	363	328	145	131	1.11	/	
	PCB 188 (BZ)	37:43	37:45	-2	571212	559172	115360	112932	1.02	ABV/ABV	
	PCB 179 (BZ)	38:12	38:13	-1	560038	520115	108818	101835	1.08	AVV/AVV	
	PCB 184 (BZ)	38:33	38:36	-3	545306	499944	111883	101178	1.09	AVV/AVV	
	PCB 176 (BZ)	39:04	39:04	0	579488	548359	116611	107615	1.06	ABV/AVV	
	PCB 186 (BZ)	39:32	39:31	1	552318	524305	106603	101425	1.05	ABV/AVV	D
	PCB 178 (BZ)	40:47	40:50	-3	402154	378982	78825	73818	1.06	ABV/ABV	
	PCB 175 (BZ)	41:25	41:27	-2	416832	411987	81513	84593	1.01	ABV/ABV	
	PCB 187 (BZ)	41:41	41:42	-1	455286	424408	88252	85902	1.07	AVV/AVV	
	PCB 182 (BZ)	41:52	41:53	-1	458309	435606	90357	83104	1.05	AVB/AVB	
	PCB 183 (BZ)	42:16	42:18	-2	443247	421517	89080	87036	1.05	ABV/ABV	
	PCB 185 (BZ)	42:26	42:27	-1	411903	394578	81065	77520	1.04	AVV/AVV	
	PCB 174 (BZ)	42:38	42:37	1	412089	395253	77698	77419	1.04	AVB/AVV	
	PCB 177 (BZ)	43:04	43:04	0	378859	365420	73579	70227	1.04	ABB/ABB	
	PCB 181 (BZ)	43:23	43:24	-1	439153	417879	84804	83151	1.05	ABV/ABB	
	PCB 173 (BZ)	43:40	43:40	0	773045	729467	150178	144146	1.06	AVB/ABB	
	PCB 172 (BZ)	45:13	45:14	-1	388848	364793	76388	74751	1.07	ABV/ABV	
	PCB 192 (BZ)	45:28	45:29	-1	525074	497344	102212	101099	1.06	AVV/AVV	
	PCB 193 (BZ)	45:50	45:48	2	1055793	979525	162229	150316	1.08	AVV/AVV	
	PCB 191 (BZ)	46:13	46:14	-1	579413	546712	114444	104432	1.06	AVV/AVB	
	PCB 170 (BZ)	47:13	47:12	1	395343	367179	77146	71244	1.08	ABV/ABV	
	PCB 190 (BZ)	47:41	47:40	1	599634	580613	113981	107258	1.03	ABV/ABV	
	PCB 189 (BZ)	50:15	50:13	2	616007	590545	111274	109072	1.04	AVV/AVV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	163	175	65	70	0.93	/	
	13C12-PCB 188	37:41	37:44	-3	1138555	1089804	227213	217293	1.04	ABV/ABV	
	13C12-PCB 178	40:46	40:48	-2	372980	362778	72418	72363	1.03	ABV/ABV	
	13C12-PCB 180	45:50	45:50	0	930827	881561	177459	174176	1.06	ABV/ABV	
	13C12-PCB 170	47:11	47:10	1	778514	756166	144825	142630	1.03	ABV/ABV	
	13C12-PCB 189	50:14	50:11	3	1225611	1164164	231084	214297	1.05	ABV/ABV	
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		

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Data File	/20070928s1/a070928s1.	Prep Date		SDG No	
Analysis ID	99511	Prep Exp Date		Date Received	
Analysis Date	09/28/07 12:05	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

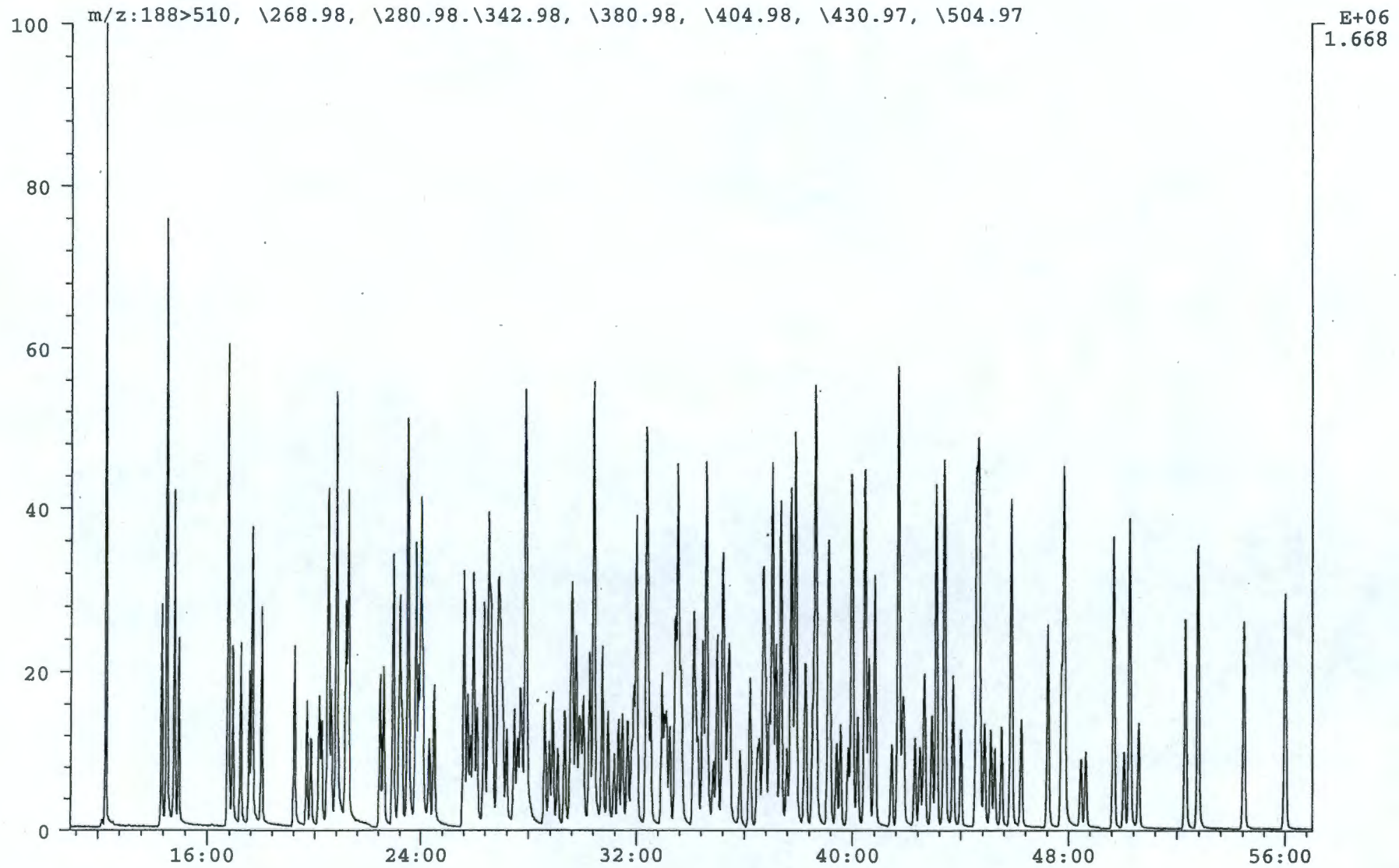
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	215	253	86	101	0.85	/	
	PCB 202 (BZ)	43:04	43:05	-1	433289	472478	86442	93507	0.92	ABB/ABV	
	PCB 200 (BZ)/201 (IUPAC	43:57	44:01	-4	476766	530022	92522	103408	0.90	ABB/ABV	
	PCB 204 (BZ)	44:35	44:38	-3	432151	482544	89430	98292	0.90	ABV/ABV	
	PCB 197 (BZ)	44:50	44:52	-2	468565	525308	90733	106369	0.89	AVV/AVV	
	PCB 199 (BZ)/200 (IUPAC	45:04	45:04	0	456685	523006	89180	104514	0.87	AVB/AVB	
	PCB 201 (BZ)/199 (IUPAC	47:48	47:48	0	667059	744638	75077	83823	0.90	ABV/ABV	DM
	PCB 196 (BZ)	48:26	48:27	-1	328146	367814	62903	69632	0.89	ABV/AVV	
	PCB 203 (BZ)	48:36	48:37	-1	358427	412988	71237	77210	0.87	AVV/AVV	
	PCB 195 (BZ)	50:01	49:58	3	374932	411238	72931	80462	0.91	ABV/ABV	
	PCB 194 (BZ)	52:17	52:17	0	401810	452735	74530	89566	0.89	ABV/ABV	
	PCB 205 (BZ)	52:46	52:44	2	490451	537152	93575	99448	0.91	AVV/AVV	
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	133	125	53	50	1.06 *	/	
	13C12-PCB 202	43:02	43:04	-2	898223	1011217	178473	204303	0.89	ABV/ABV	
	13C12-PCB 194	52:16	52:16	0	738686	792871	145064	156635	0.93	ABV/ABV	
	13C12-PCB 205	52:44	52:43	1	1050486	1189248	198623	223735	0.88	AVV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	123	165	49	66	0.74	/	
	PCB 208 (BZ)	49:40	49:41	-1	436343	567939	83215	115469	0.77	ABV/ABV	
	PCB 207 (BZ)	50:34	50:36	-2	450552	572980	90702	112939	0.79	AVV/ABV	
	PCB 206 (BZ)	54:26	54:26	0	321973	415305	61860	84320	0.78	ABV/ABV	
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	133	135	53	54	0.98 *	/	
	13C12-PCB 208	49:38	49:40	-2	919349	1146859	181024	222060	0.80	ABV/ABV	
	13C12-PCB 206	54:25	54:25	0	614420	813914	119180	157528	0.75	ABV/ABV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	85	105	34	42	0.81 *	/	
	PCB 209 (BZ)	55:59	56:00	-1	318645	481170	54713	84798	0.66	ABV/ABV	
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	145	135	58	54	1.07 *	/	
	13C12-PCB 209	55:58	55:59	-1	723541	1023087	126211	186897	0.71	ABV/ABV	

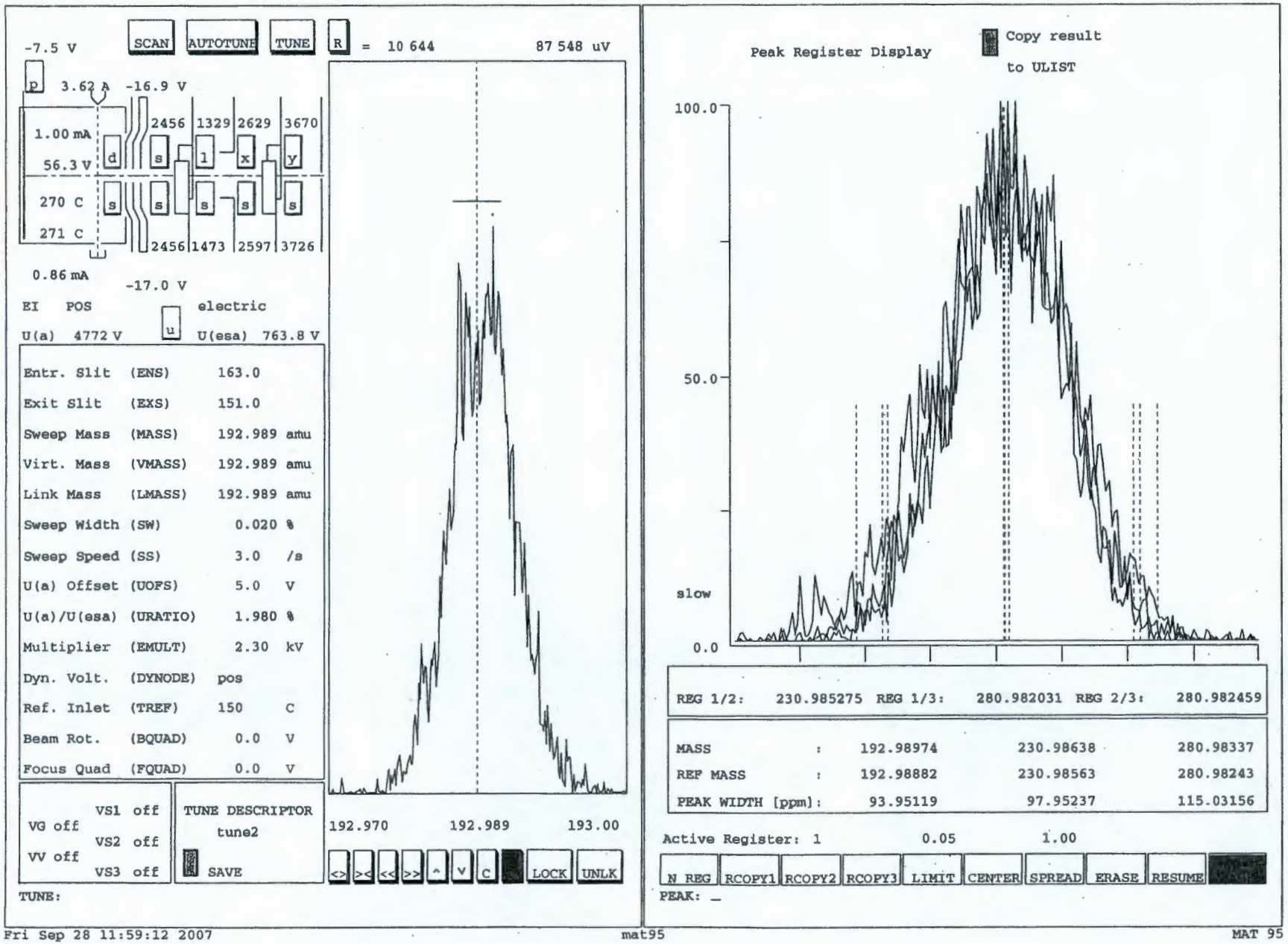
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Int/Calc DKW 9/28/07
QC PMP 9.28.07

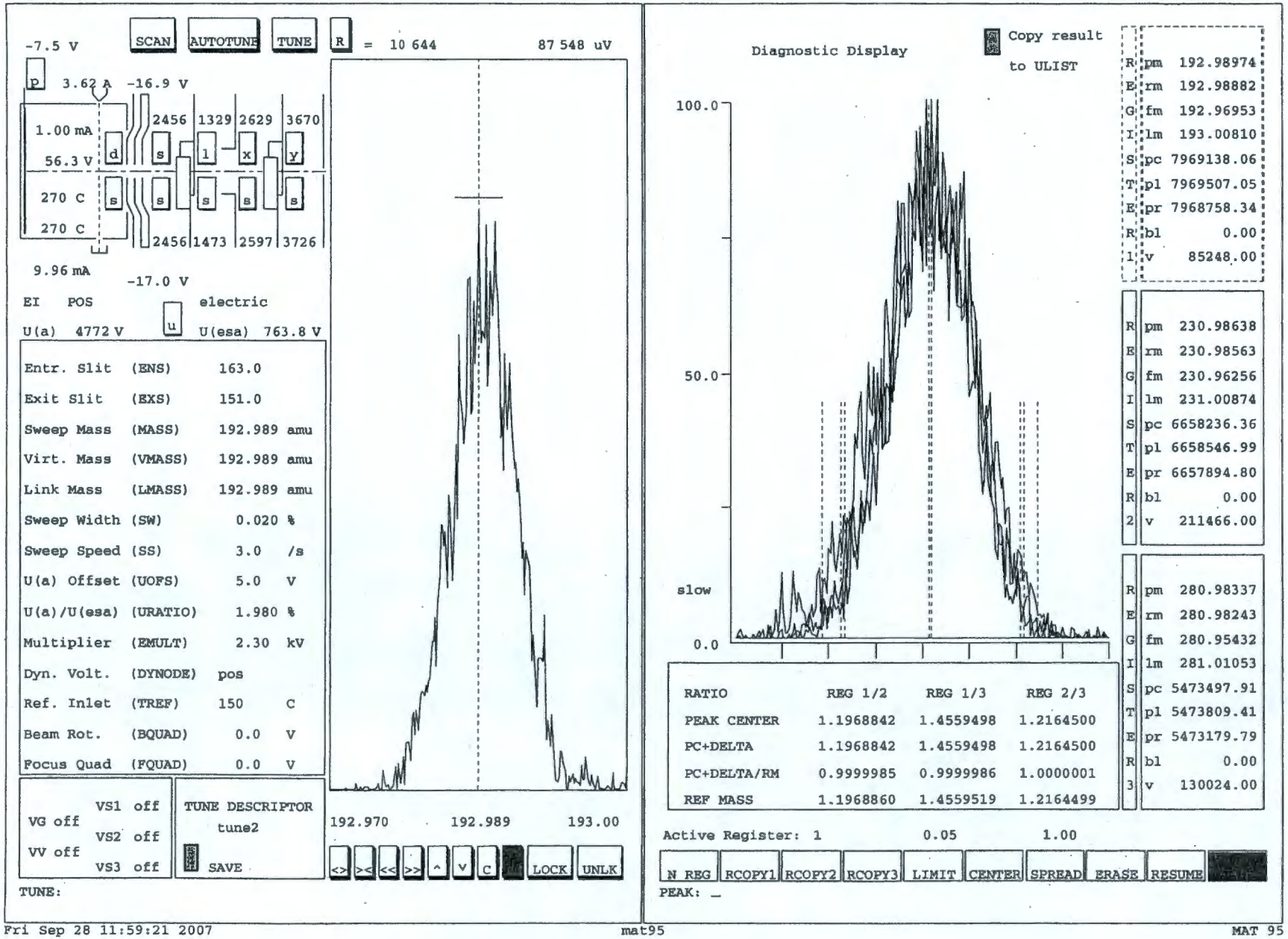
```
CHRO:  a070928s1                                28-Sep-07  Elapse:  11:00.8        1
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:05:38    2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2 > 2600             Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 3               Label :  0, 0.0
Disp:  Height  Area
```



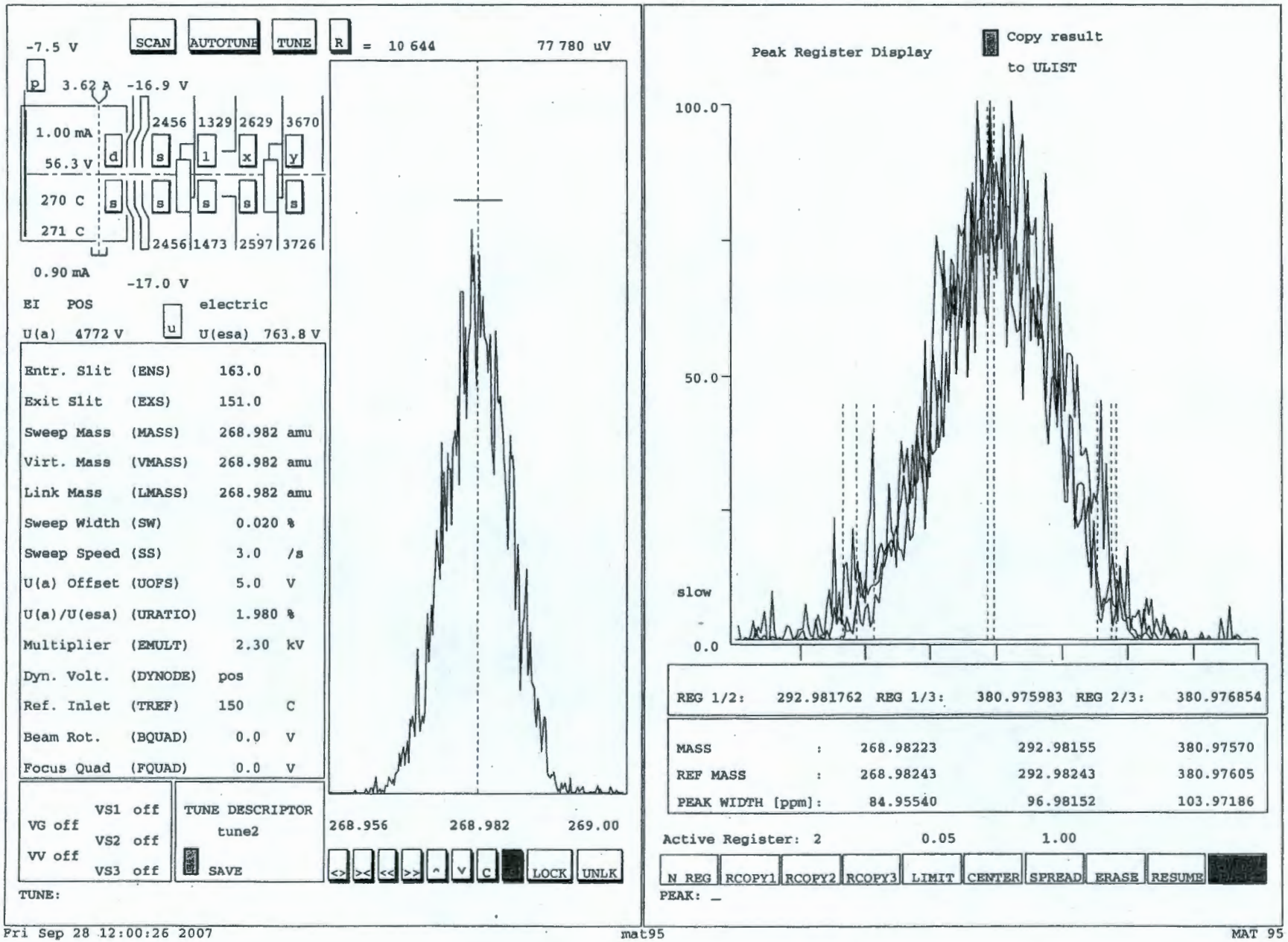
2370


-7.5 V
SCAN
AUTOTUNE
TUNE
R
= 10 644
87 548 uV
p
3.62 A
-16.9 V
1.00 mA
56.3 V
2456
1329
2629
3670
d
s
l
x
y
270 C
271 C
2456
1473
2597
3726
0.86 mA
-17.0 V
EI POS
electric
U(a) 4772 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 192.989 amu
Virt. Mass (VMASS) 192.989 amu
Link Mass (LMASS) 192.989 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
192.970
192.989
193.00
<>
><
<<
>>
^
v
C
LOCK
UNLK
TUNE:
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 230.985275 REG 1/3: 280.982031 REG 2/3: 280.982459
MASS : 192.98974 230.98638 280.98337
REF MASS : 192.98882 230.98563 280.98243
PEAK WIDTH [ppm]: 93.95119 97.95237 115.03156
Active Register: 1 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Fri Sep 28 11:59:12 2007
mat95
MAT 95

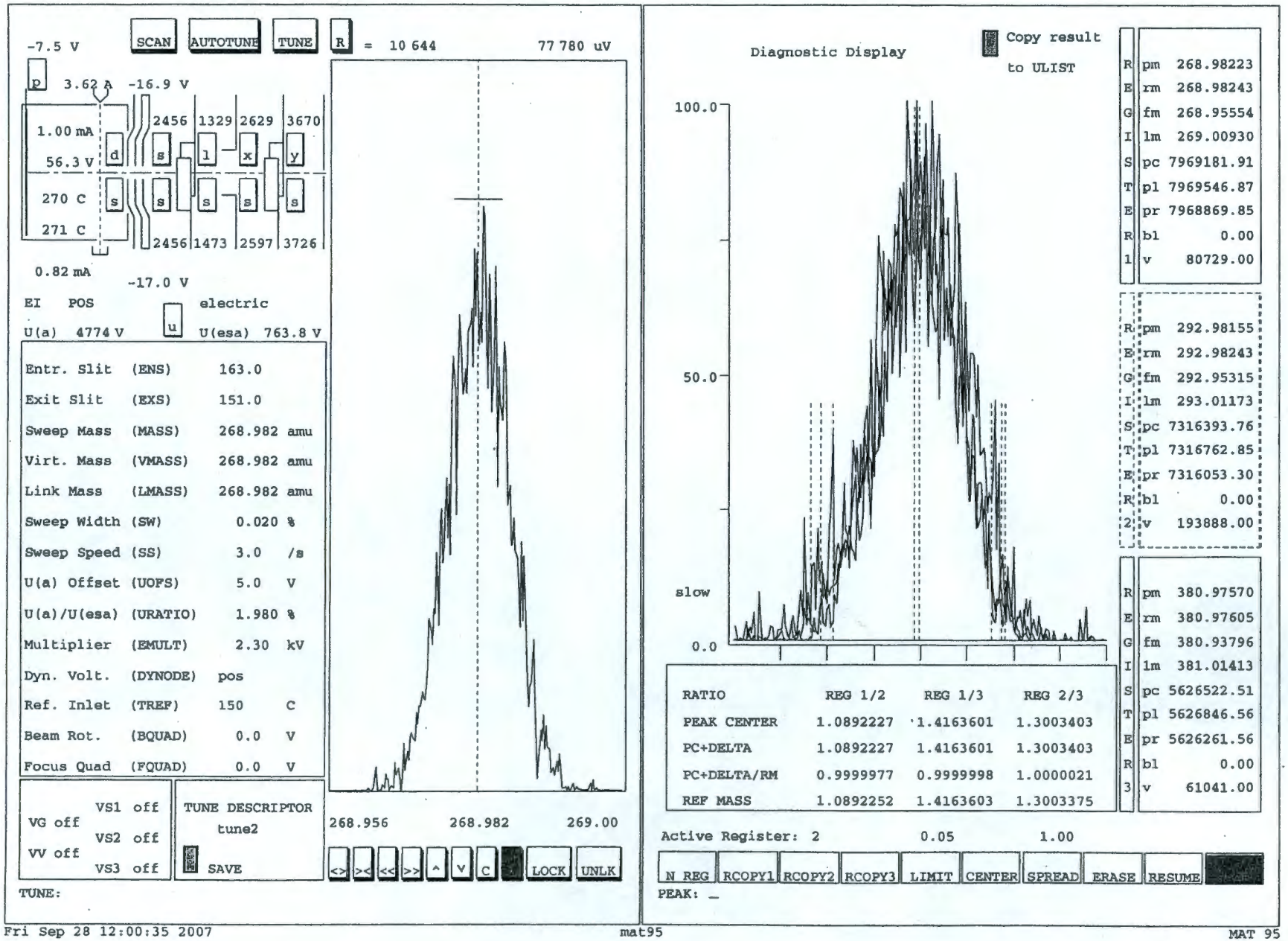
2371

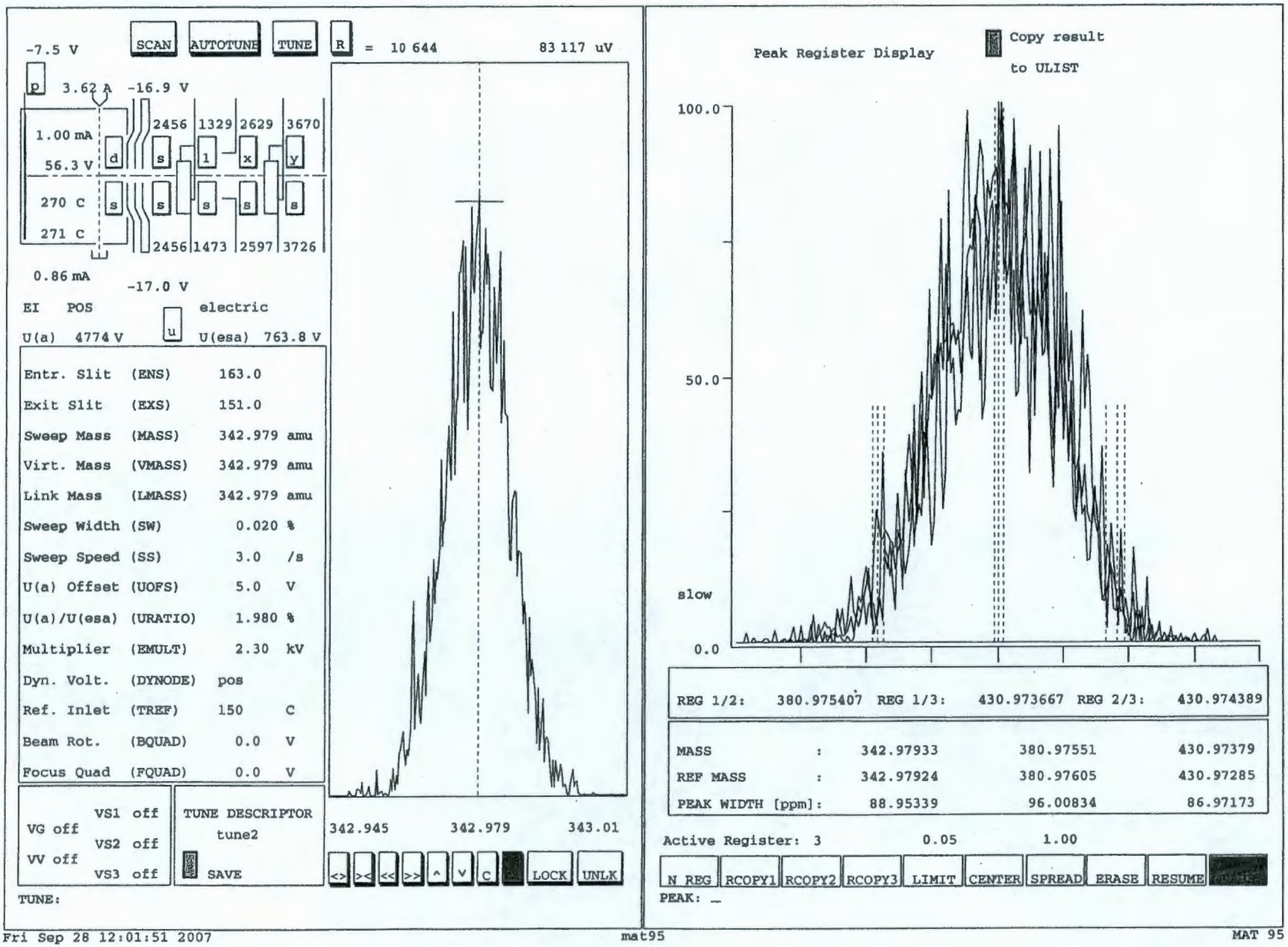

-7.5 V
SCAN
AUTOTUNE
TUNE
R
= 10 644
87 548 uV
p
3.62 A
-16.9 V
1.00 mA
56.3 V
2456
1329
2629
3670
d
s
l
x
y
270 C
270 C
2456
1473
2597
3726
9.96 mA
-17.0 V
EI POS
electric
U(a) 4772 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 192.989 amu
Virt. Mass (VMASS) 192.989 amu
Link Mass (LMASS) 192.989 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
192.970
192.989
193.00
<>
><
<<
>>
^
v
C
LOCK
UNLK
TUNE:
Diagnostic Display
Copy result
to ULIST
100.0
50.0
slow
0.0
R pm 192.98974
E rm 192.98882
G fm 192.96953
I lm 193.00810
S pc 7969138.06
T pl 7969507.05
E pr 7968758.34
R bl 0.00
1 v 85248.00
R pm 230.98638
E rm 230.98563
G fm 230.96256
I lm 231.00874
S pc 6658236.36
T pl 6658546.99
E pr 6657894.80
R bl 0.00
2 v 211466.00
R pm 280.98337
E rm 280.98243
G fm 280.95432
I lm 281.01053
S pc 5473497.91
T pl 5473809.41
E pr 5473179.79
R bl 0.00
3 v 130024.00
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1968842 1.4559498 1.2164500
PC+DELTA 1.1968842 1.4559498 1.2164500
PC+DELTA/RM 0.9999985 0.9999986 1.0000001
REF MASS 1.1968860 1.4559519 1.2164499
Active Register: 1 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Fri Sep 28 11:59:21 2007
mat95
MAT 95

2372

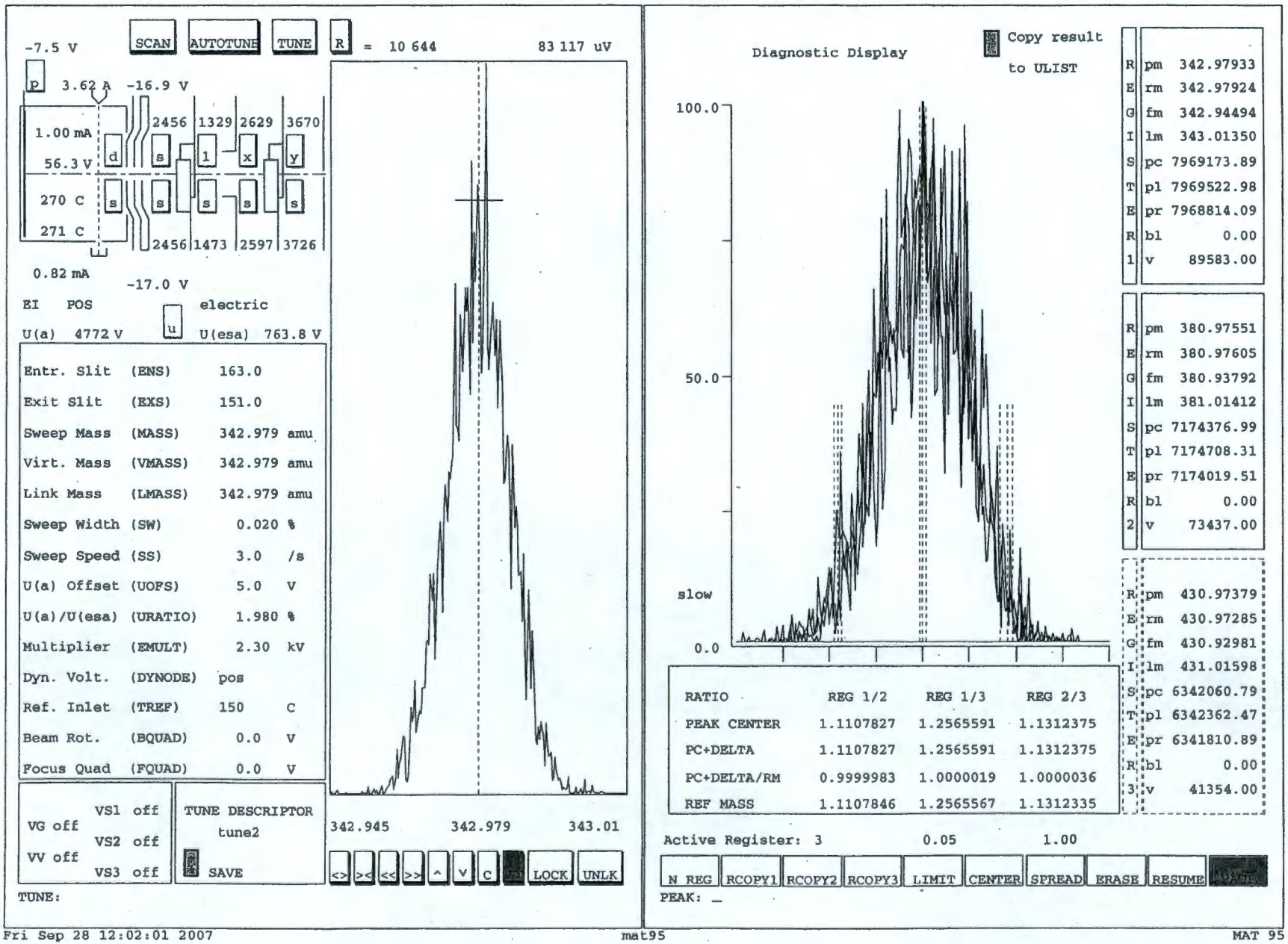

-7.5 V
SCAN
AUTOTUNE
TUNE
R
= 10 644
77 780 uV
p
3.62 A
-16.9 V
1.00 mA
56.3 V
2456
1329
2629
3670
d
s
l
x
y
270 C
271 C
2456
1473
2597
3726
0.90 mA
-17.0 V
EI POS
electric
U(a) 4772 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 268.982 amu
Virt. Mass (VMASS) 268.982 amu
Link Mass (LMASS) 268.982 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VS1 off
VG off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
268.956
268.982
269.00
<>
><
<<
>>
^
v
C
LOCK
UNLK
TUNE:
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 292.981762 REG 1/3: 380.975983 REG 2/3: 380.976854
MASS : 268.98223 292.98155 380.97570
REF MASS : 268.98243 292.98243 380.97605
PEAK WIDTH [ppm]: 84.95540 96.98152 103.97186
Active Register: 2 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Fri Sep 28 12:00:26 2007
mat95
MAT 95

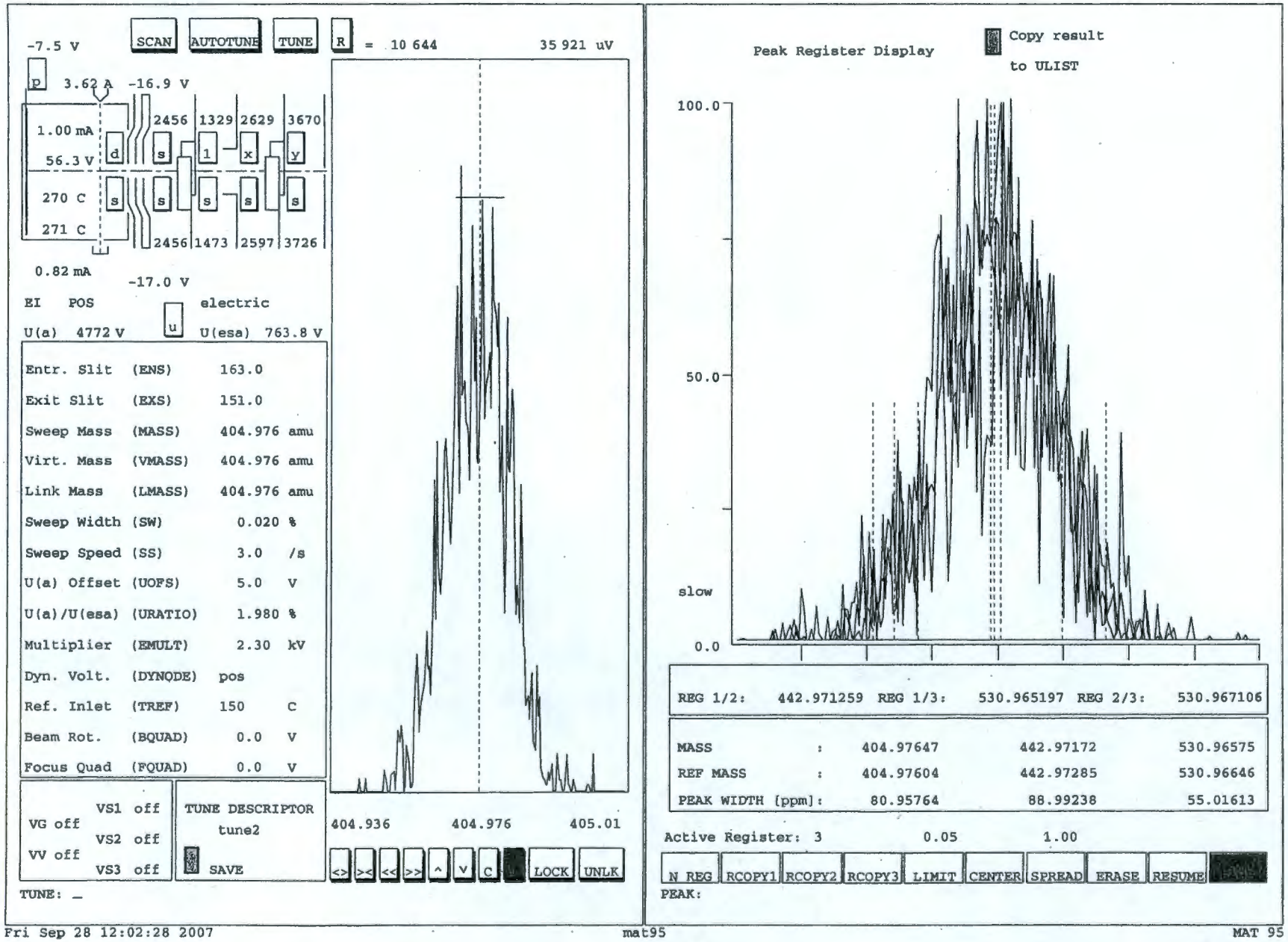
2373


SCAN
AUTOTUNE
TUNE
R = 10 644
77 780 uV
-7.5 V
p
3.62 A
-16.9 V
1.00 mA
56.3 V
270 C
271 C
2456 1329 2629 3670
2456 1473 2597 3726
0.82 mA
-17.0 V
EI POS
electric
U(a) 4774 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 268.982 amu
Virt. Mass (VMASS) 268.982 amu
Link Mass (LMASS) 268.982 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
268.956 268.982 269.00
LOCK
UNLK
TUNE:
Diagnostic Display
Copy result to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.0892227 1.4163601 1.3003403
PC+DELTA 1.0892227 1.4163601 1.3003403
PC+DELTA/RM 0.9999977 0.9999998 1.0000021
REF MASS 1.0892252 1.4163603 1.3003375
REG 1 pm 268.98223
rm 268.98243
fm 268.95554
lm 269.00930
pc 7969181.91
pl 7969546.87
pr 7968869.85
bl 0.00
v 80729.00
REG 2 pm 292.98155
rm 292.98243
fm 292.95315
lm 293.01173
pc 7316393.76
pl 7316762.85
pr 7316053.30
bl 0.00
v 193888.00
REG 3 pm 380.97570
rm 380.97605
fm 380.93796
lm 381.01413
pc 5626522.51
pl 5626846.56
pr 5626261.56
bl 0.00
v 61041.00
Active Register: 2 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Fri Sep 28 12:00:35 2007
mat95
MAT 95

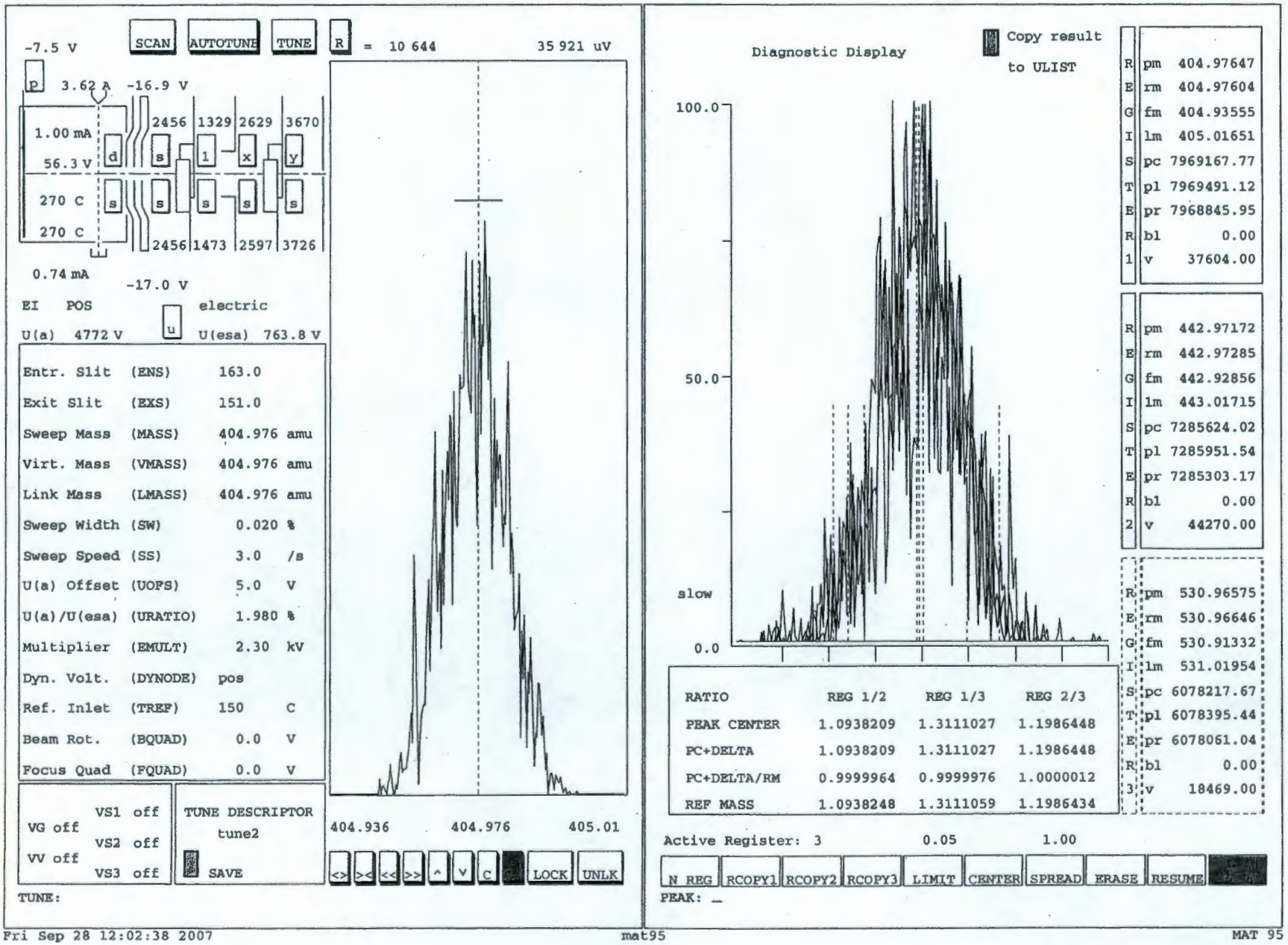

-7.5 V
SCAN
AUTOTUNE
TUNE
R = 10 644
83 117 uV
p
3.62 A
-16.9 V
1.00 mA
56.3 V
2456
1329
2629
3670
d
s
l
x
y
270 C
271 C
2456
1473
2597
3726
0.86 mA
-17.0 V
EI POS
electric
U(a) 4774 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 342.979 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VS3 off
VV off
TUNE DESCRIPTOR
tune2
SAVE
342.945
342.979
343.01
<>
><
<<
>>
^
v
C
LOCK
UNLK
TUNE:
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 380.975407 REG 1/3: 430.973667 REG 2/3: 430.974389
MASS : 342.97933 380.97551 430.97379
REF MASS : 342.97924 380.97605 430.97285
PEAK WIDTH [ppm]: 88.95339 96.00834 86.97173
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Fri Sep 28 12:01:51 2007
mat95
MAT 95

2375

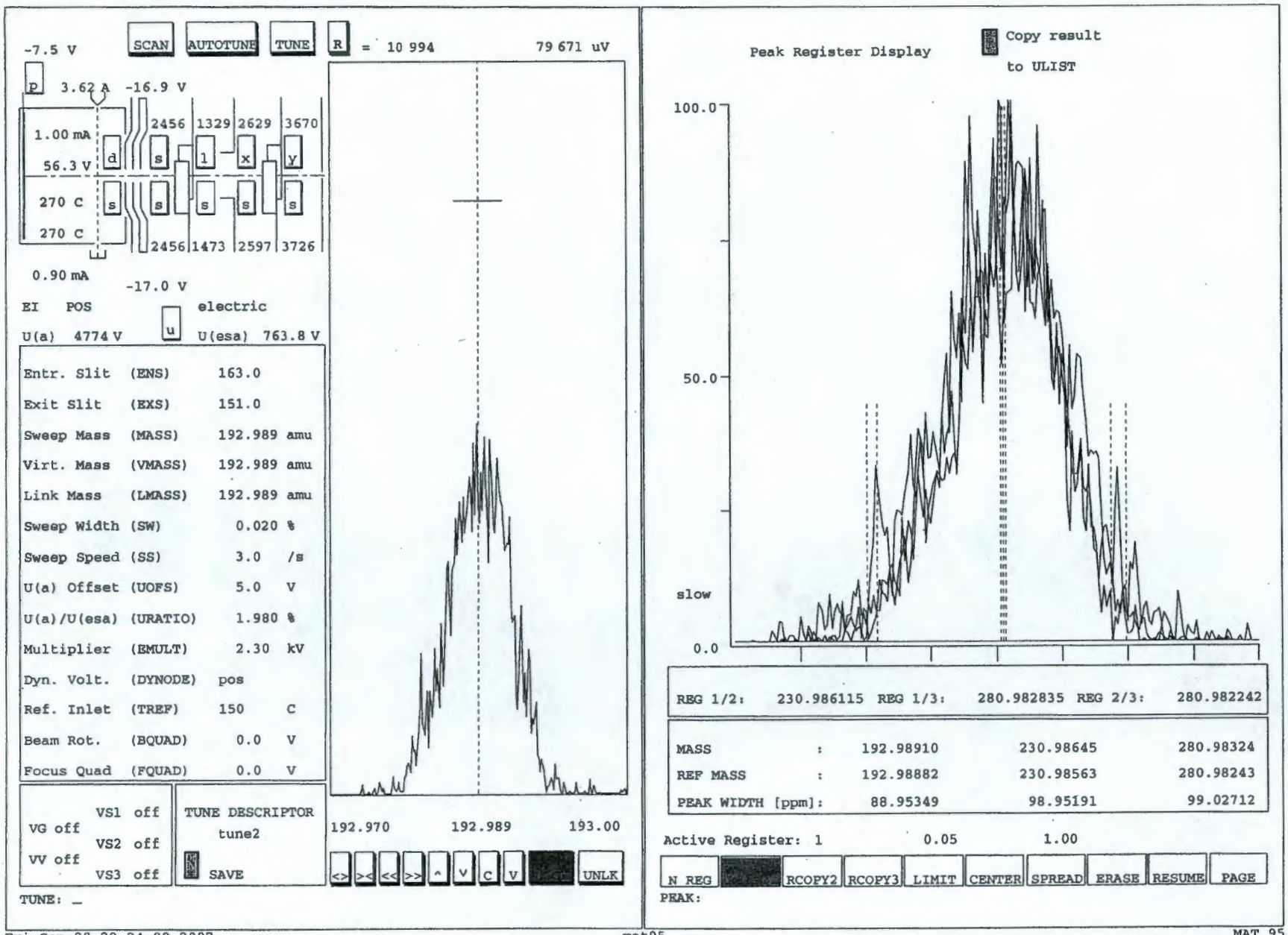

-7.5 V
SCAN
AUTOTUNE
TUNE
R = 10 644
83 117 uV
P
3.62 A
-16.9 V
1.00 mA
56.3 V
2456
1329
2629
3670
d
s
l
x
y
270 C
271 C
2456
1473
2597
3726
0.82 mA
-17.0 V
EI POS
electric
U(a) 4772 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 342.979 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
342.945
342.979
343.01
<>
><
<<
>>
^
v
C
LOCK
UNLK
TUNE:
Diagnostic Display
Copy result
to ULIST
100.0
50.0
slow
0.0
R pm 342.97933
E rm 342.97924
G fm 342.94494
I lm 343.01350
S pc 7969173.89
T pl 7969522.98
E pr 7968814.09
R bl 0.00
1 v 89583.00
R pm 380.97551
E rm 380.97605
G fm 380.93792
I lm 381.01412
S pc 7174376.99
T pl 7174708.31
E pr 7174019.51
R bl 0.00
2 v 73437.00
R pm 430.97379
E rm 430.97285
G fm 430.92981
I lm 431.01598
S pc 6342060.79
T pl 6342362.47
E pr 6341810.89
R bl 0.00
3 v 41354.00
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1107827 1.2565591 1.1312375
PC+DELTA 1.1107827 1.2565591 1.1312375
PC+DELTA/RM 0.9999983 1.0000019 1.0000036
REF MASS 1.1107846 1.2565567 1.1312335
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Fri Sep 28 12:02:01 2007
mat95
MAT 95


-7.5 V
SCAN
AUTOTUNE
TUNE
R
= 10 644
35 921 uV
p
3.62 A
-16.9 V
1.00 mA
56.3 V
2456
1329
2629
3670
d
s
l
x
y
270 C
271 C
2456
1473
2597
3726
0.82 mA
-17.0 V
EI POS
electric
U(a) 4772 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 404.976 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNQDE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
404.936
404.976
405.01
<>
><
<<
>>
^
v
C
LOCK
UNLK
TUNE: _
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 442.971259 REG 1/3: 530.965197 REG 2/3: 530.967106
MASS : 404.97647 442.97172 530.96575
REF MASS : 404.97604 442.97285 530.96646
PEAK WIDTH [ppm]: 80.95764 88.99238 55.01613
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK:
Fri Sep 28 12:02:28 2007
mat95
MAT 95

2377

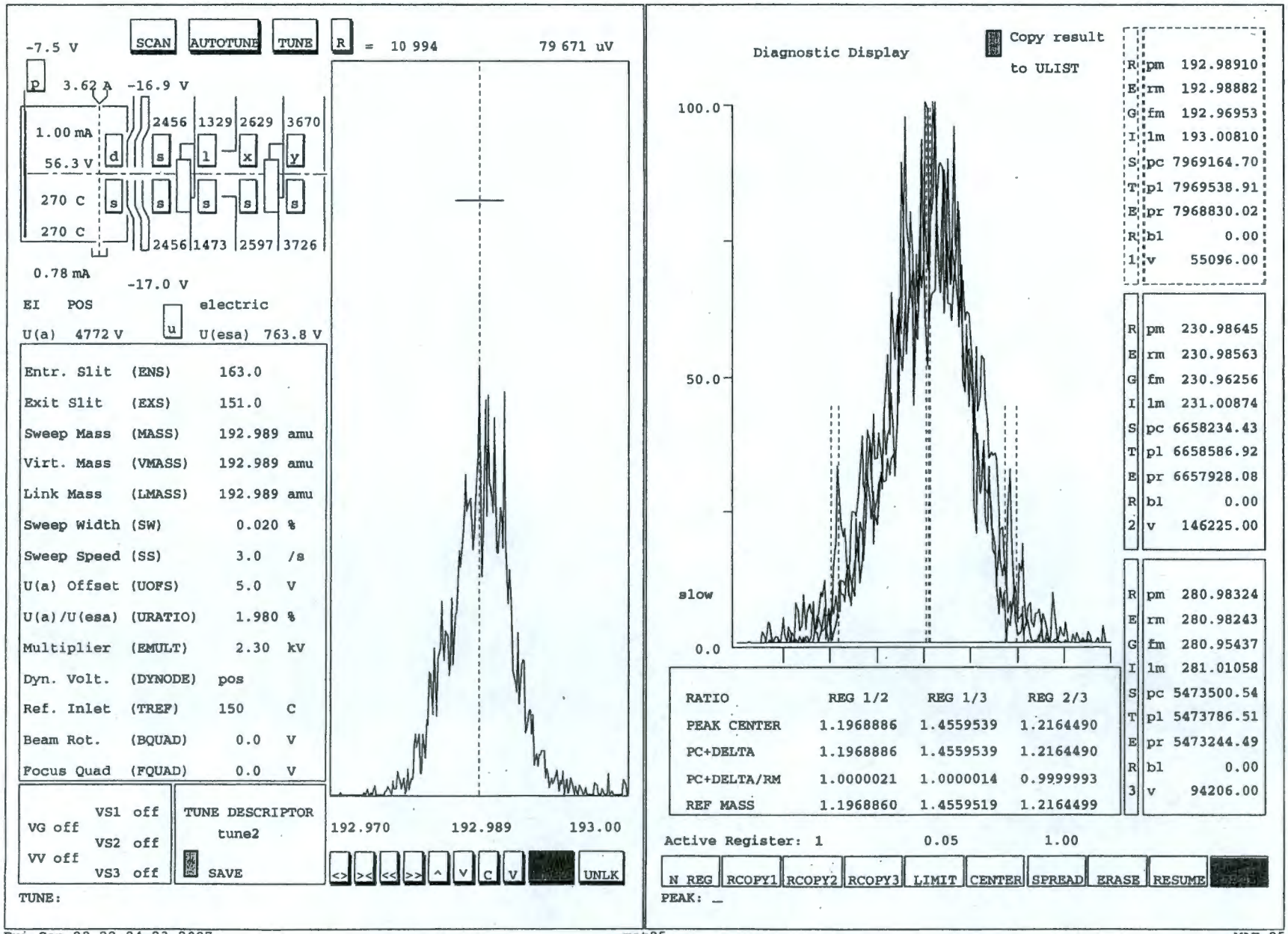

-7.5 V
SCAN
AUTOTUNE
TUNE
R = 10 644
35 921 uV
p
3.62 A
-16.9 V
1.00 mA
56.3 V
2456 1329 2629 3670
d s 1 x y
270 C
270 C
s s s s s
2456 1473 2597 3726
0.74 mA
-17.0 V
EI POS
u
electric
U(a) 4772 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 404.976 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
404.936 404.976 405.01
<> >< << >> ^ v C LOCK UNLK
TUNE:
Diagnostic Display
Copy result to ULIST
100.0
50.0
slow
0.0
R pm 404.97647
E rm 404.97604
G fm 404.93555
I lm 405.01651
S pc 7969167.77
T pl 7969491.12
E pr 7968845.95
R bl 0.00
1 v 37604.00
R pm 442.97172
E rm 442.97285
G fm 442.92856
I lm 443.01715
S pc 7285624.02
T pl 7285951.54
E pr 7285303.17
R bl 0.00
2 v 44270.00
R pm 530.96575
E rm 530.96646
G fm 530.91332
I lm 531.01954
S pc 6078217.67
T pl 6078395.44
E pr 6078061.04
R bl 0.00
3 v 18469.00
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.0938209 1.3111027 1.1986448
PC+DELTA 1.0938209 1.3111027 1.1986448
PC+DELTA/RM 0.9999964 0.9999976 1.0000012
REF MASS 1.0938248 1.3111059 1.1986434
Active Register: 3 0.05 1.00
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME
PEAK: _
Fri Sep 28 12:02:38 2007
mat95
MAT 95

2378

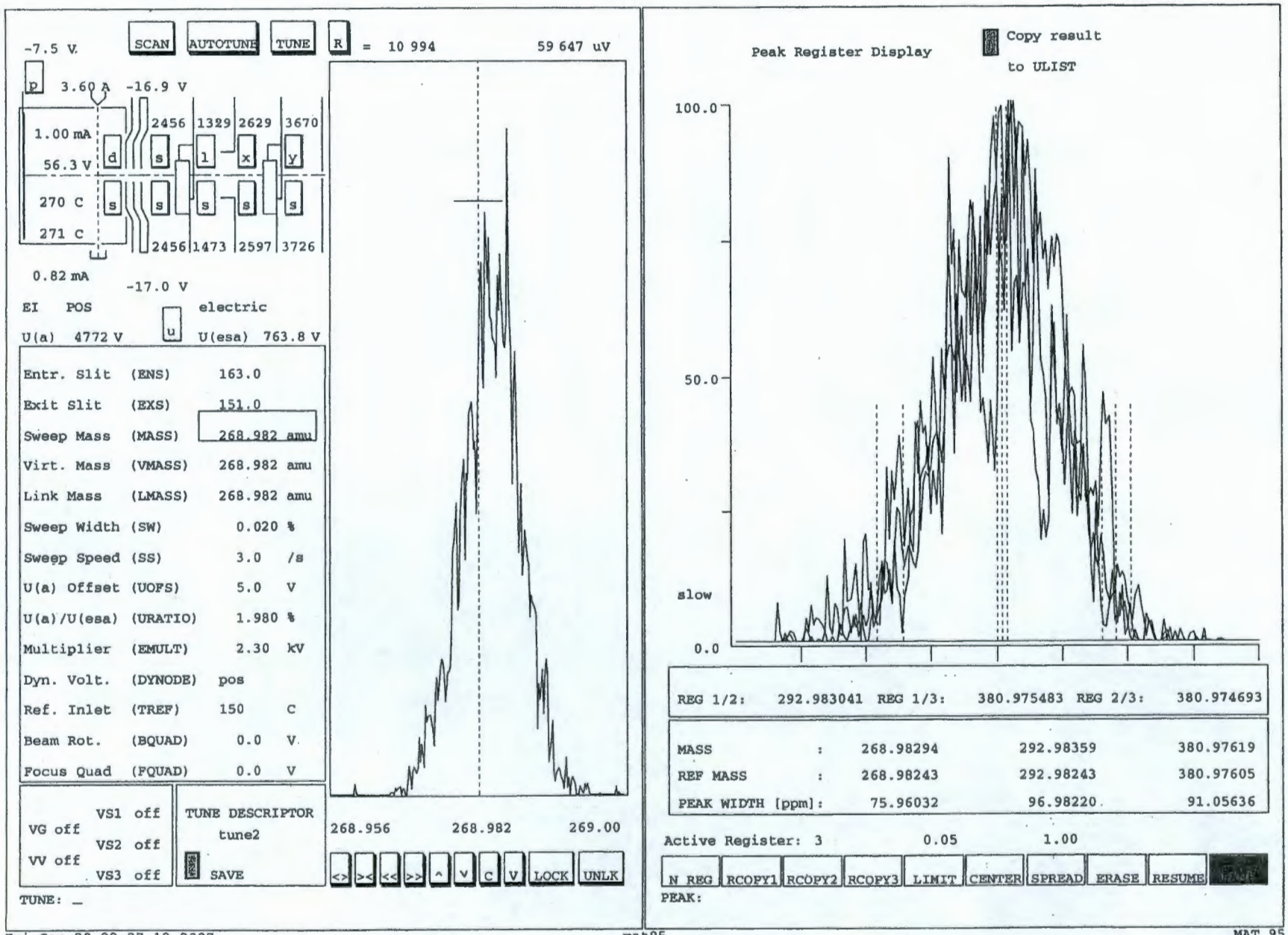


Fri Sep 28 22:24:09 2007 mat95 MAT 95

2379


-7.5 V
SCAN
AUTOTUNE
TUNE
R
= 10 994
79 671 uV
p
3.62 A
-16.9 V
1.00 mA
56.3 V
2456 1329 2629 3670
d s l x y
270 C
270 C
s s s s s
2456 1473 2597 3726
0.78 mA
-17.0 V
EI POS
u
electric
U(a) 4772 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 192.989 amu
Virt. Mass (VMASS) 192.989 amu
Link Mass (LMASS) 192.989 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
192.970 192.989 193.00
<> >< << >> ^ v C v
UNLK
TUNE:
Diagnostic Display
Copy result to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1968886 1.4559539 1.2164490
PC+DELTA 1.1968886 1.4559539 1.2164490
PC+DELTA/RM 1.0000021 1.0000014 0.9999993
REF MASS 1.1968860 1.4559519 1.2164499
REGIST1 pm 192.98910 rm 192.98882 fm 192.96953 lm 193.00810 pc 7969164.70 pl 7969538.91 pr 7968830.02 bl 0.00 v 55096.00
REGIST2 pm 230.98645 rm 230.98563 fm 230.96256 lm 231.00874 pc 6658234.43 pl 6658586.92 pr 6657928.08 bl 0.00 v 146225.00
REGIST3 pm 280.98324 rm 280.98243 fm 280.95437 lm 281.01058 pc 5473500.54 pl 5473786.51 pr 5473244.49 bl 0.00 v 94206.00
Active Register: 1 0.05 1.00
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME
PEAK: _
Fri Sep 28 22:24:23 2007
mat95
MAT 95

2380


-7.5 V.
SCAN
AUTOTUNE
TUNE
R
= 10 994
59 647 uV
p
3.60 A
-16.9 V
1.00 mA
56.3 V
2456
1329
2629
3670
d
s
l
x
y
270 C
271 C
2456
1473
2597
3726
0.82 mA
-17.0 V
EI POS
electric
U(a) 4772 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 268.982 amu
Virt. Mass (VMASS) 268.982 amu
Link Mass (LMASS) 268.982 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
TUNE: _
268.956
268.982
269.00
<>
><
<<
>>
^
v
C
V
LOCK
UNLK
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 292.983041 REG 1/3: 380.975483 REG 2/3: 380.974693
MASS : 268.98294 292.98359 380.97619
REF MASS : 268.98243 292.98243 380.97605
PEAK WIDTH [ppm]: 75.96032 96.98220 91.05636
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK:
Fri Sep 28 22:27:12 2007
mat95
MAT 95

2381

-7.5 V SCAN AUTOTUNE TUNE R = 10 994 59 647 uV

p 3.60 A -16.9 V

1.00 mA 2456 1329 2629 3670

56.3 V d s l x y

270 C s s s s s

270 C 2456 1473 2597 3726

0.82 mA -17.0 V

EI POS u electric

U(a) 4772 V U(esa) 763.8 V

Entr. Slit	(ENS)	163.0	
Exit Slit	(EXS)	151.0	
Sweep Mass	(MASS)	268.982	amu
Virt. Mass	(VMASS)	268.982	amu
Link Mass	(LMASS)	268.982	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.980	%
Multiplier	(EMULT)	2.30	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR tune2 SAVE

TUNE:

268.956 268.982 269.00

<> >< << >> ^ v C V LOCK UNLK

Diagnostic Display Copy result to ULIST

100.0 50.0 slow 0.0

RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0892274	1.4163582	1.3003329
PC+DELTA	1.0892274	1.4163582	1.3003329
PC+DELTA/RM	1.0000021	0.9999985	0.9999965
REF MASS	1.0892252	1.4163603	1.3003375

REGISTER 1	
pm	268.98294
rm	268.98243
fm	268.95554
lm	269.00930
pc	7969161.14
pl	7969459.26
pr	7968853.92
bl	0.00
v	52708.00

REGISTER 2	
pm	292.98359
rm	292.98243
fm	292.95315
lm	293.01173
pc	7316342.77
pl	7316704.33
pr	7315994.78
bl	0.00
v	131298.00

REGISTER 3	
pm	380.97619
rm	380.97605
fm	380.93796
lm	381.01420
pc	5626515.21
pl	5626773.17
pr	5626260.84
bl	0.00
v	53629.00

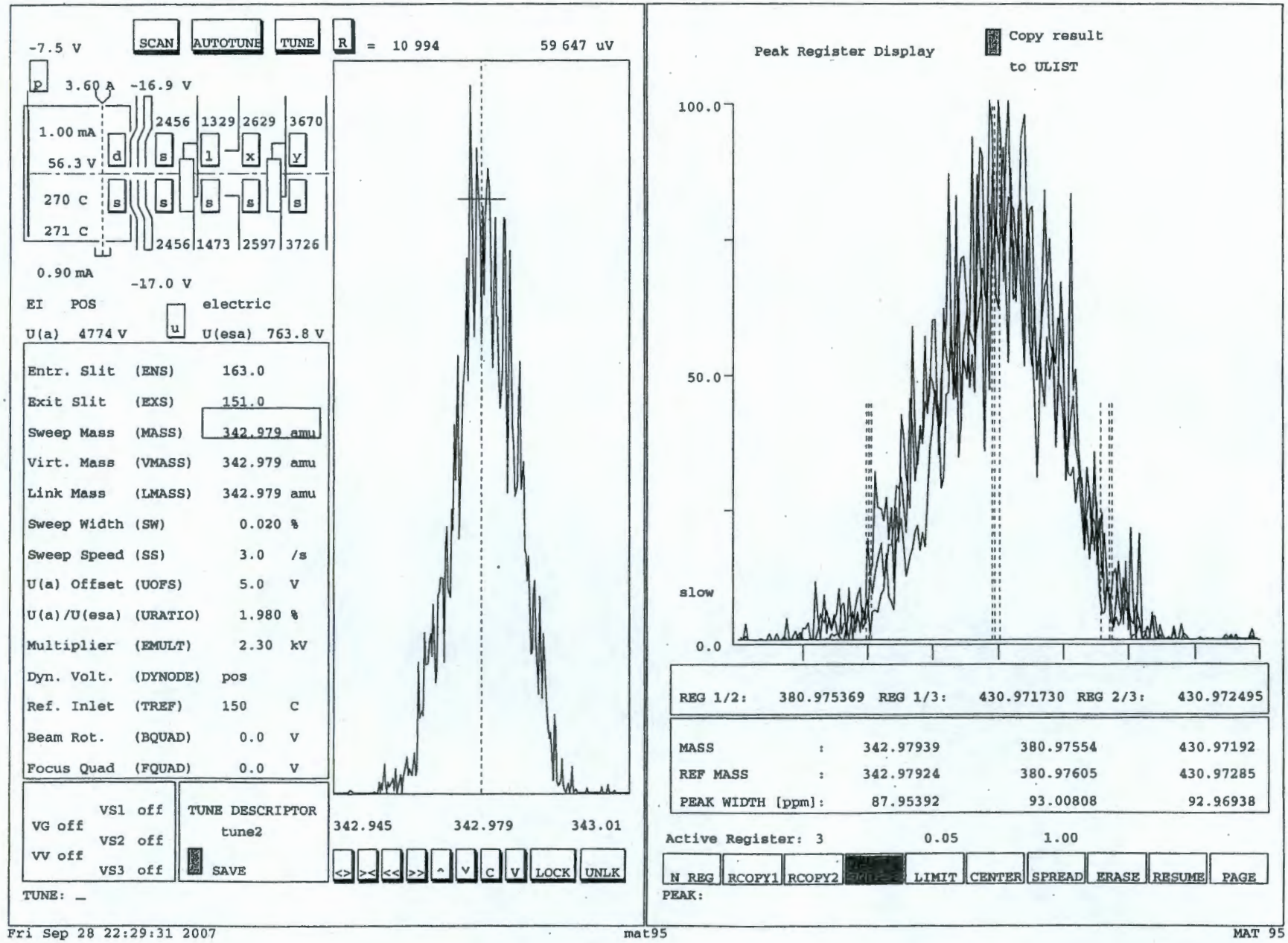
Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME

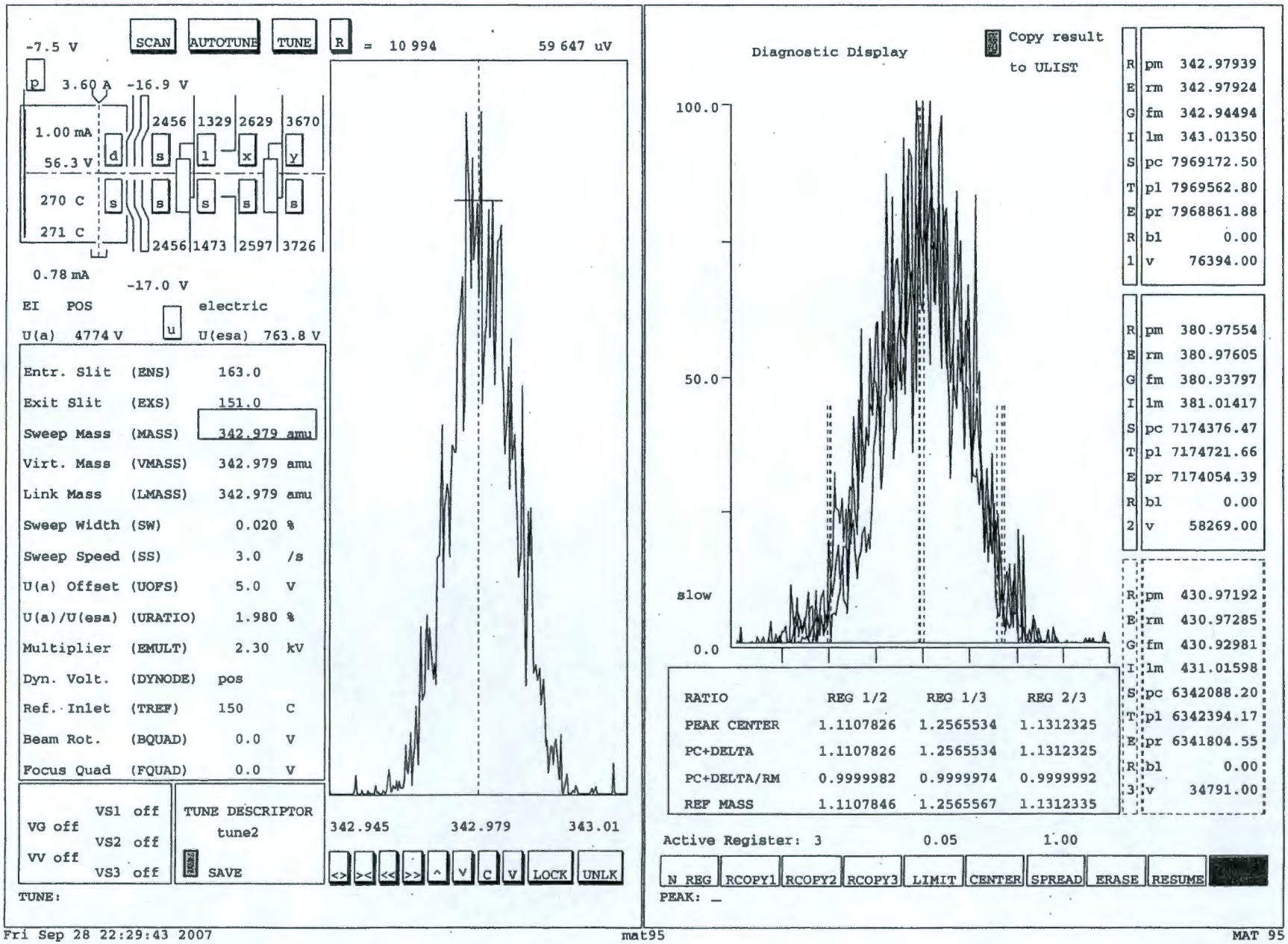
PEAK: _

Fri Sep 28 22:27:22 2007 mat95 MAT 95

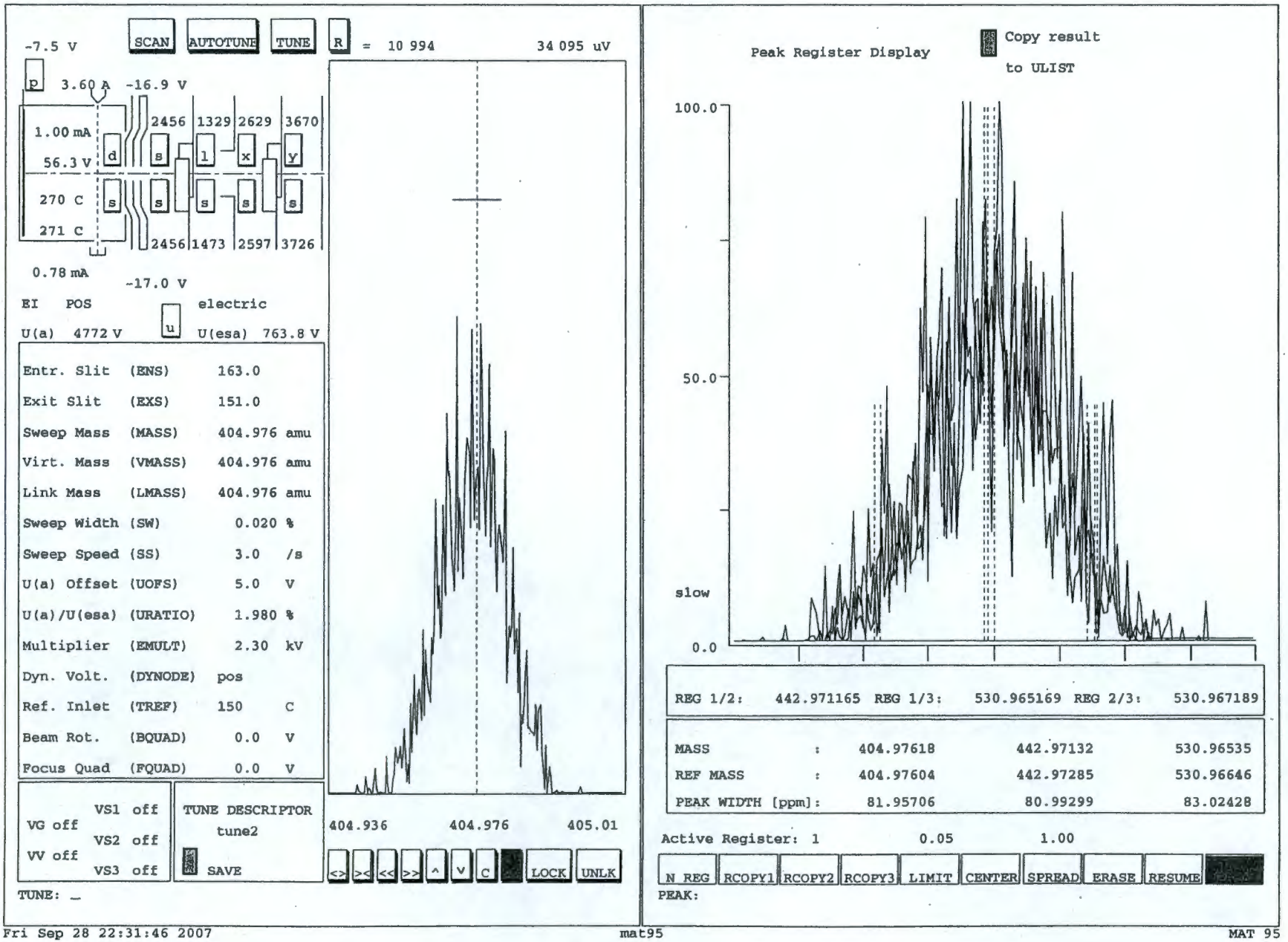
2382


-7.5 V
SCAN
AUTOTUNE
TUNE
R = 10 994
59 647 uV
p
3.60 A
-16.9 V
1.00 mA
56.3 V
2456
1329
2629
3670
d
s
l
x
y
270 C
271 C
2456
1473
2597
3726
0.90 mA
-17.0 V
EI POS
electric
U(a) 4774 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 342.979 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
342.945
342.979
343.01
<>
><
<<
>>
^
v
C
V
LOCK
UNLK
TUNE: _
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 380.975369 REG 1/3: 430.971730 REG 2/3: 430.972495
MASS : 342.97939 380.97554 430.97192
REF MASS : 342.97924 380.97605 430.97285
PEAK WIDTH [ppm]: 87.95392 93.00808 92.96938
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
LIMIT
CENTER
SPREAD
ERASE
RESUME
PAGE
PEAK:
Fri Sep 28 22:29:31 2007
mat95
MAT 95

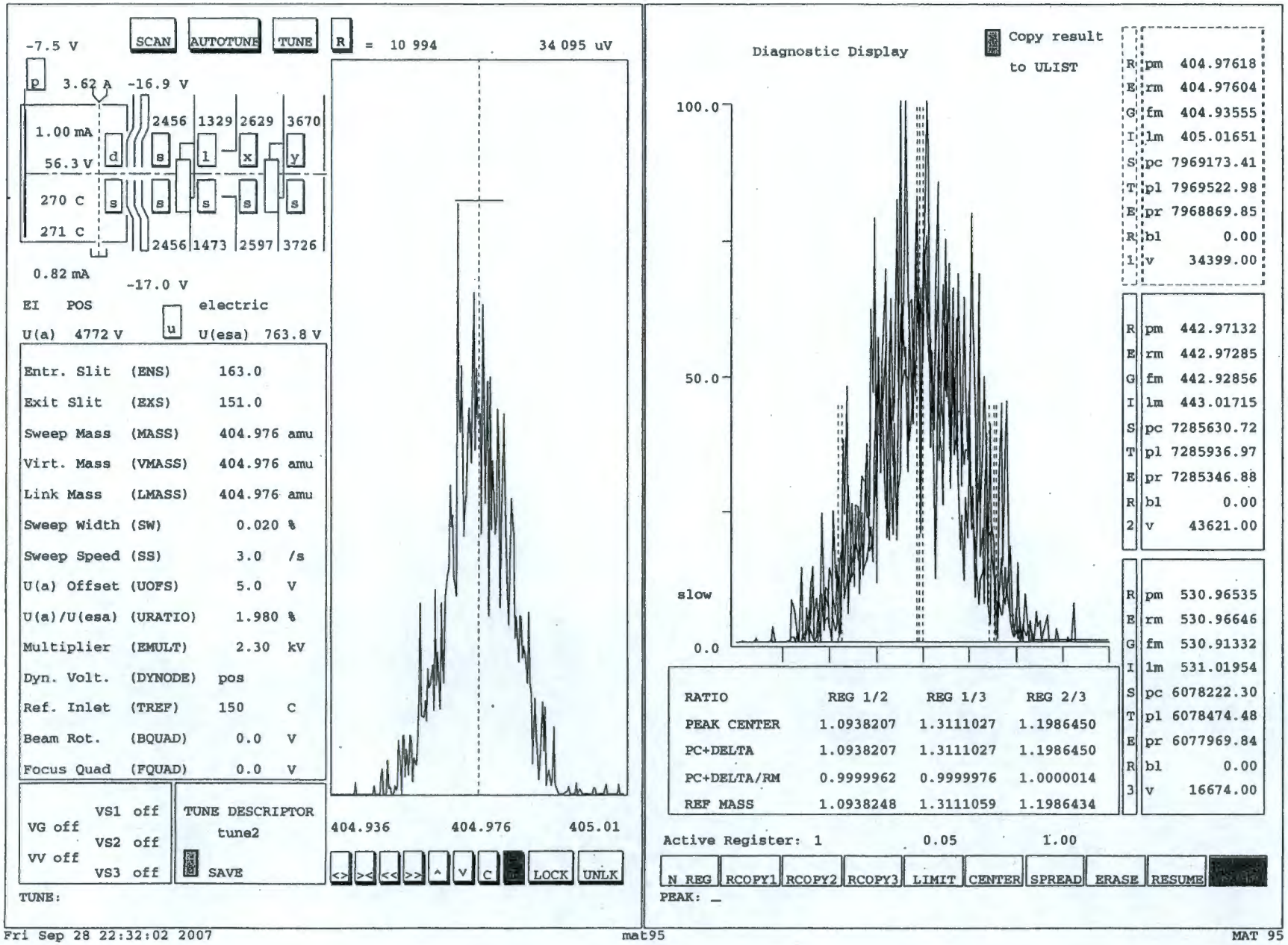
2383


-7.5 V
SCAN
AUTOTUNE
TUNE
R = 10 994
59 647 uV
p
3.60 A
-16.9 V
1.00 mA
56.3 V
2456 1329 2629 3670
d s l x y
270 C
271 C
s s s s s
2456 1473 2597 3726
0.78 mA
-17.0 V
EI POS
u
electric
U(a) 4774 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 342.979 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
342.945 342.979 343.01
<> >< << >> ^ v C V LOCK UNLK
TUNE:
Diagnostic Display
Copy result to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1107826 1.2565534 1.1312325
PC+DELTA 1.1107826 1.2565534 1.1312325
PC+DELTA/RM 0.9999982 0.9999974 0.9999992
REF MASS 1.1107846 1.2565567 1.1312335
REGIST 1 pm 342.97939
rm 342.97924
fm 342.94494
lm 343.01350
pc 7969172.50
pl 7969562.80
pr 7968861.88
bl 0.00
v 76394.00
REGIST 2 pm 380.97554
rm 380.97605
fm 380.93797
lm 381.01417
pc 7174376.47
pl 7174721.66
pr 7174054.39
bl 0.00
v 58269.00
REGIST 3 pm 430.97192
rm 430.97285
fm 430.92981
lm 431.01598
pc 6342088.20
pl 6342394.17
pr 6341804.55
bl 0.00
v 34791.00
Active Register: 3 0.05 1.00
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME
PEAK: _
Fri Sep 28 22:29:43 2007
mat95
MAT 95

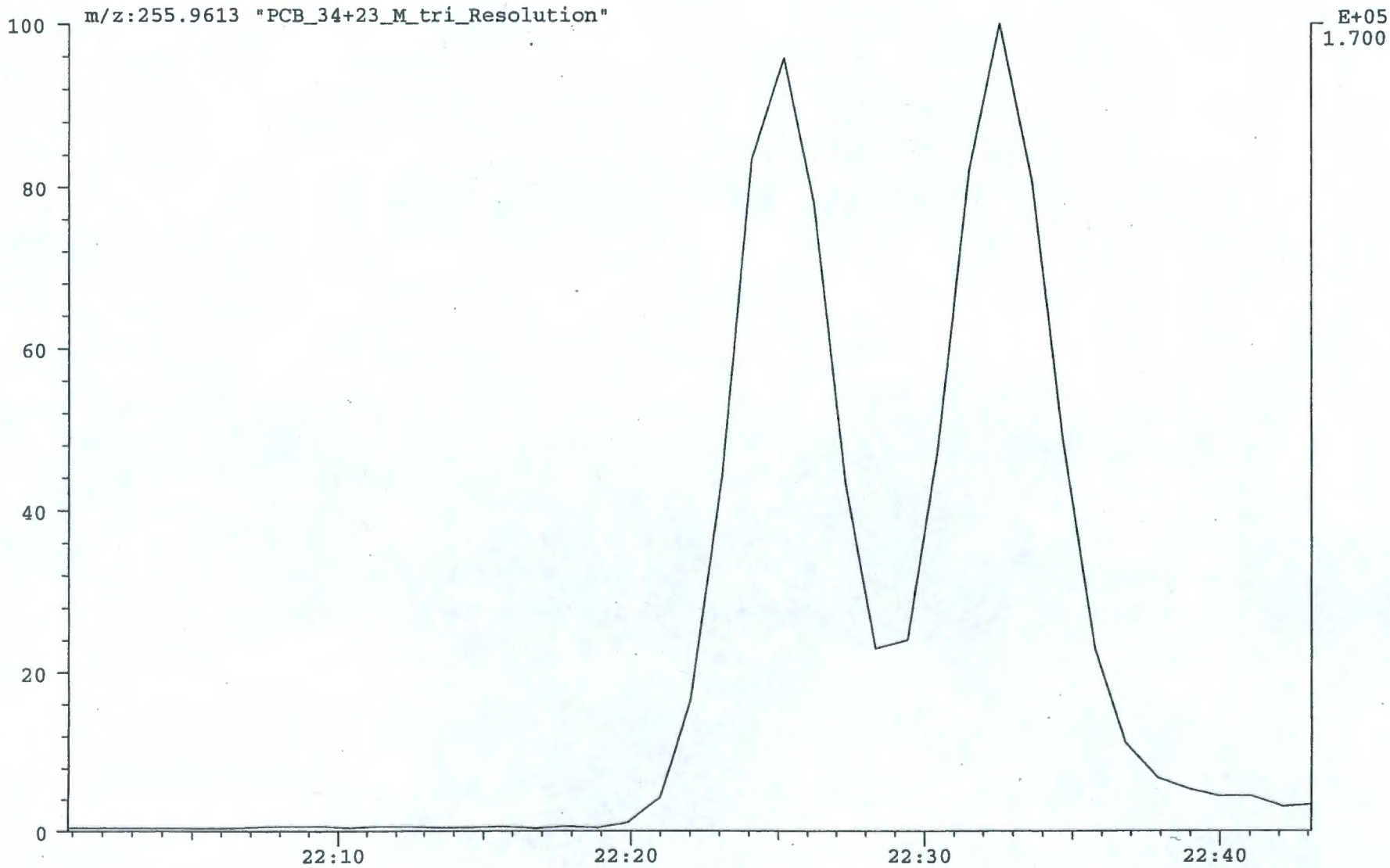
2384


-7.5 V
SCAN
AUTOTUNE
TUNE
R
= 10 994
34 095 uV
p
3.60 A
-16.9 V
1.00 mA
56.3 V
2456
1329
2629
3670
d
s
l
x
y
270 C
271 C
2456
1473
2597
3726
0.78 mA
-17.0 V
EI POS
electric
U(a) 4772 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 404.976 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
404.936
404.976
405.01
<>
><
<<
>>
^
v
C
LOCK
UNLK
TUNE: _
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 442.971165 REG 1/3: 530.965169 REG 2/3: 530.967189
MASS : 404.97618 442.97132 530.96535
REF MASS : 404.97604 442.97285 530.96646
PEAK WIDTH [ppm]: 81.95706 80.99299 83.02428
Active Register: 1 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK:
Fri Sep 28 22:31:46 2007
mat95
MAT 95

2385

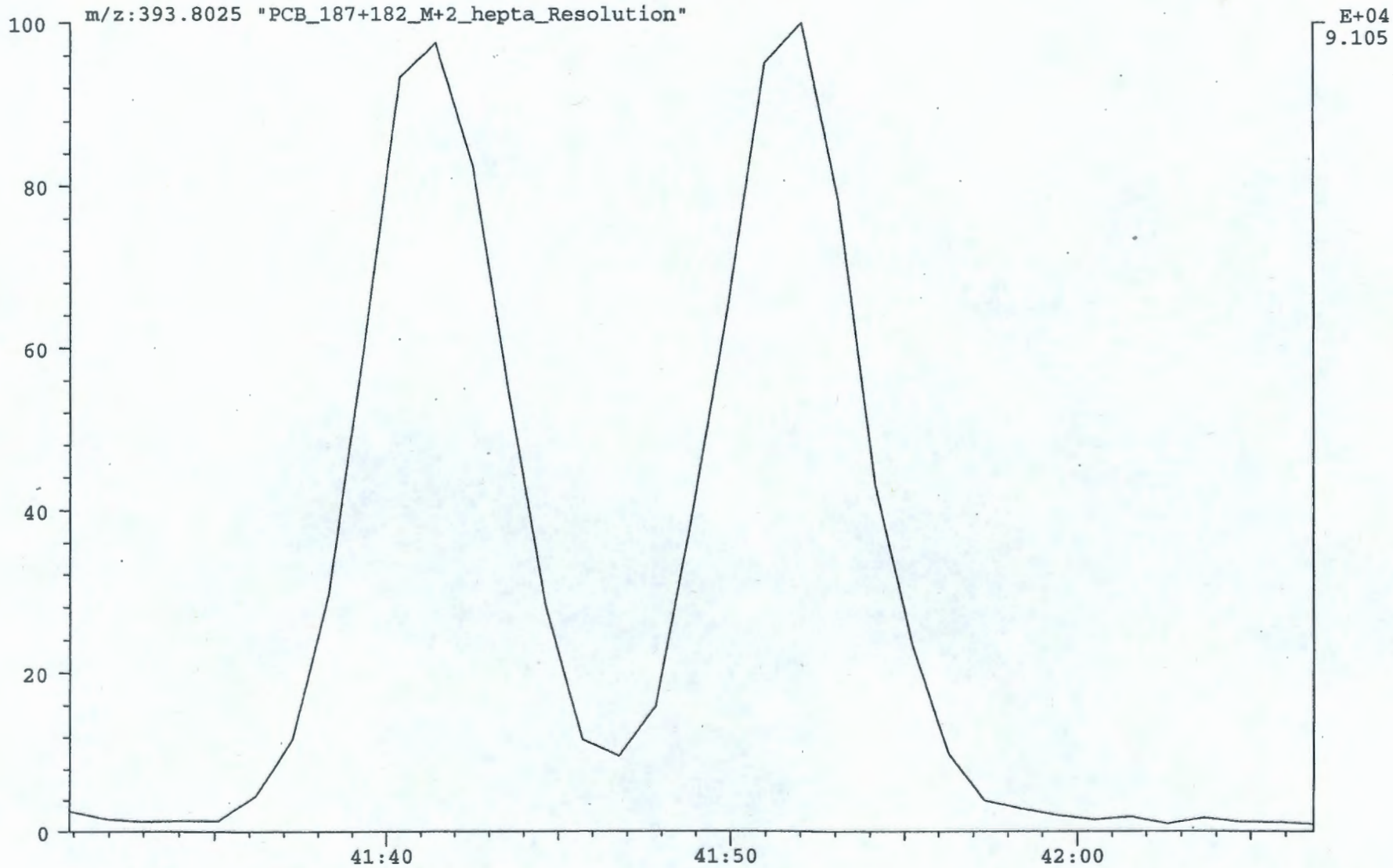

-7.5 V
SCAN
AUTOTUNE
TUNE
R
= 10 994
34 095 uV
p
3.62 A
-16.9 V
1.00 mA
56.3 V
2456 1329 2629 3670
d s l x y
270 C
271 C
s s s s s
2456 1473 2597 3726
0.82 mA
-17.0 V
EI POS
u
electric
U(a) 4772 V
U(esa) 763.8 V
Entr. Slit (ENS) 163.0
Exit Slit (EXS) 151.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 404.976 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.980 %
Multiplier (EMULT) 2.30 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
404.936
404.976
405.01
<> >< << >> ^ v C LOCK UNLK
TUNE:
Diagnostic Display
Copy result to ULIST
100.0
50.0
slow
0.0
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.0938207 1.3111027 1.1986450
PC+DELTA 1.0938207 1.3111027 1.1986450
PC+DELTA/RM 0.9999962 0.9999976 1.0000014
REF MASS 1.0938248 1.3111059 1.1986434
REGIST 1 pm 404.97618
rm 404.97604
fm 404.93555
lm 405.01651
pc 7969173.41
pl 7969522.98
pr 7968869.85
bl 0.00
v 34399.00
REGIST 2 pm 442.97132
rm 442.97285
fm 442.92856
lm 443.01715
pc 7285630.72
pl 7285936.97
pr 7285346.88
bl 0.00
v 43621.00
REGIST 3 pm 530.96535
rm 530.96646
fm 530.91332
lm 531.01954
pc 6078222.30
pl 6078474.48
pr 6077969.84
bl 0.00
v 16674.00
Active Register: 1 0.05 1.00
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME
PEAK: _
Fri Sep 28 22:32:02 2007
mat95
MAT 95

```
CHRO:  a070928s1                              28-Sep-07   Elapse:  22:24.1      643
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  12:05:38    2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   625 > 661           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  0, 3.0
Disp:  Height  Area
```



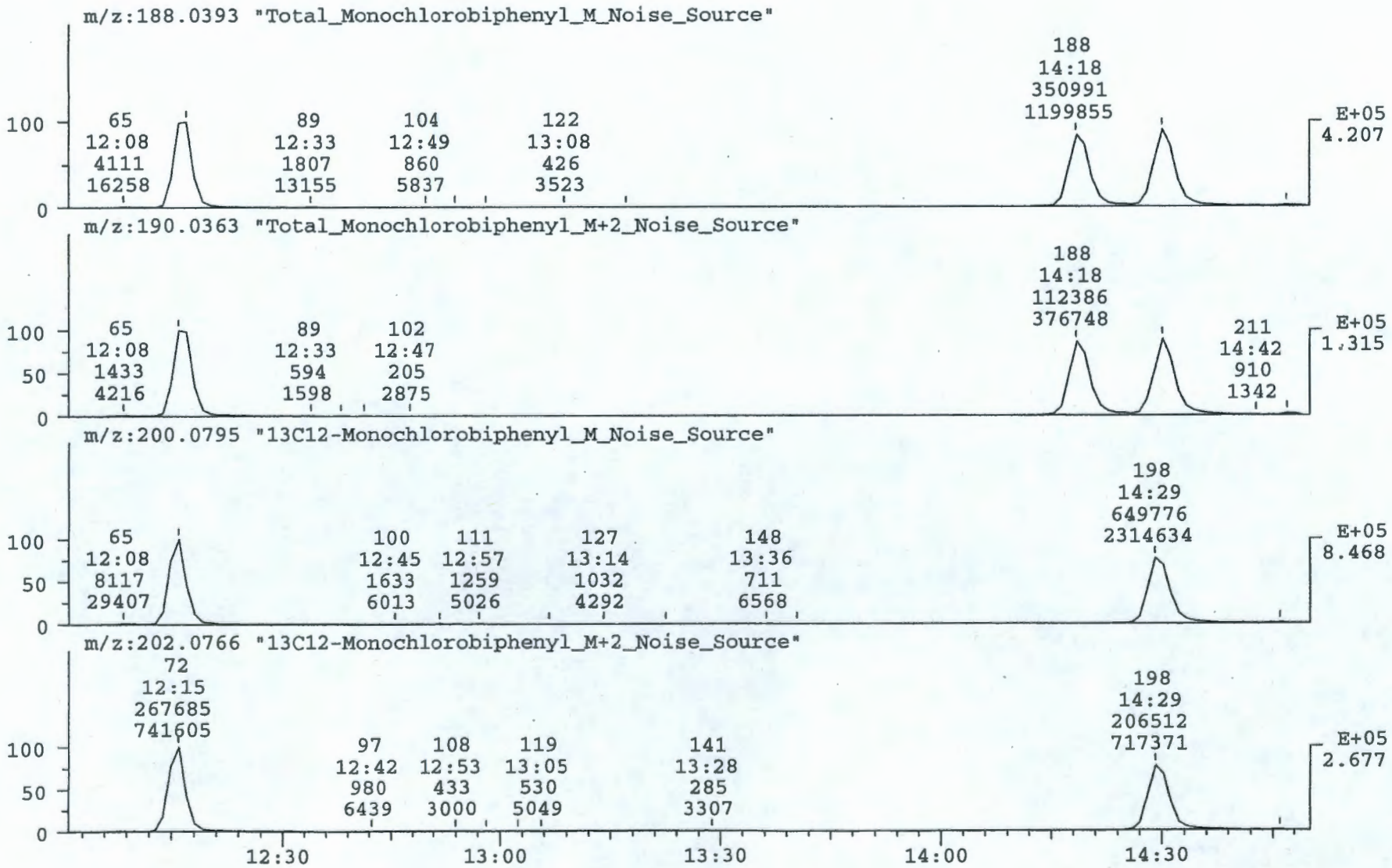
2387

```
CHRO:  a070928s1                                28-Sep-07   Elapse:  41:54      1746
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:05:38   2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1724 > 1758           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  0, 3.0
Disp:  Height  Area
```

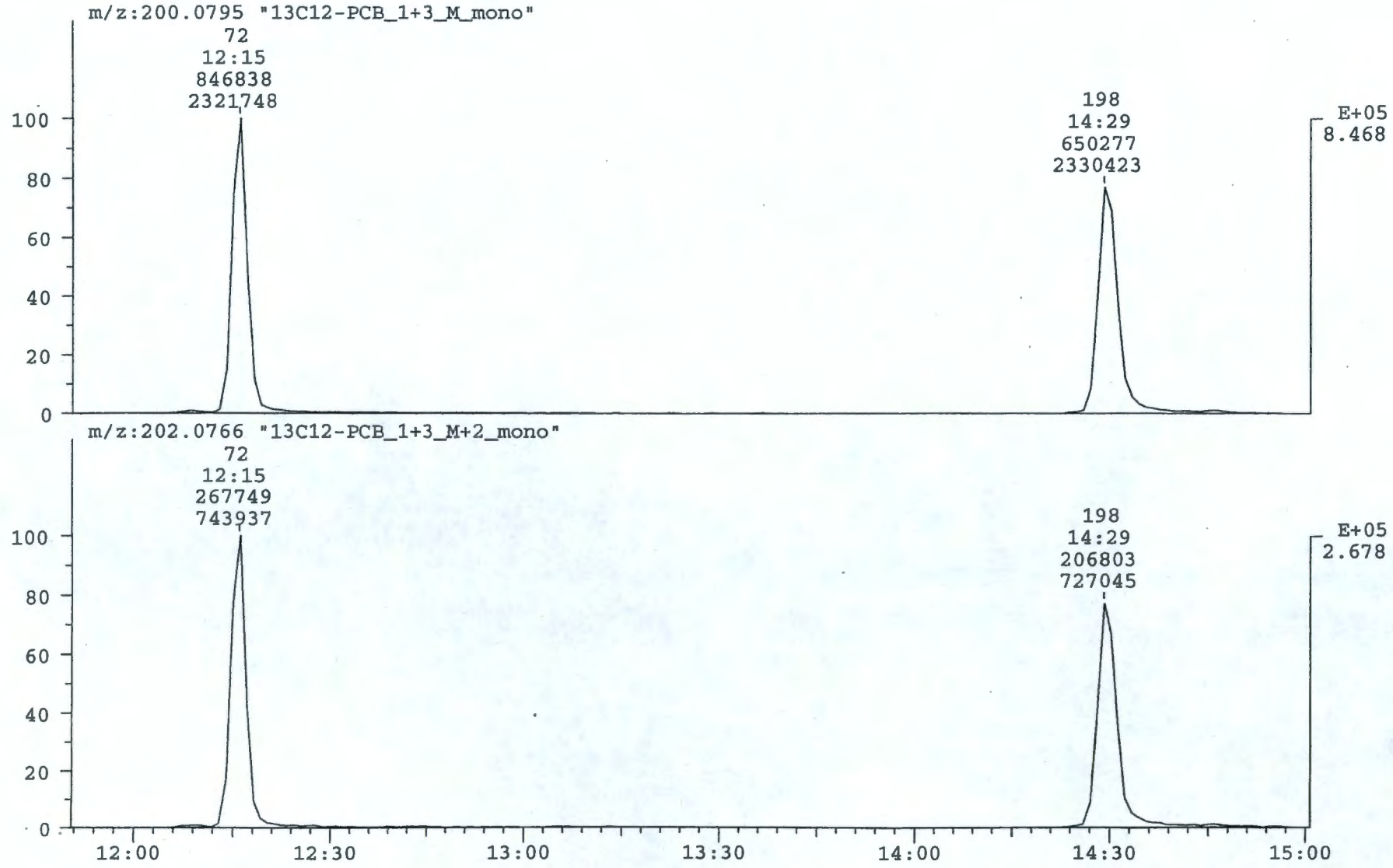


2388

```
CHRO:  a070928s1                                28-Sep-07   Elapse:  13:25.6      138
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:05:38    2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC      Vial   1
Peak:  100.00  ppm      Label wndw:   58 > 218              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

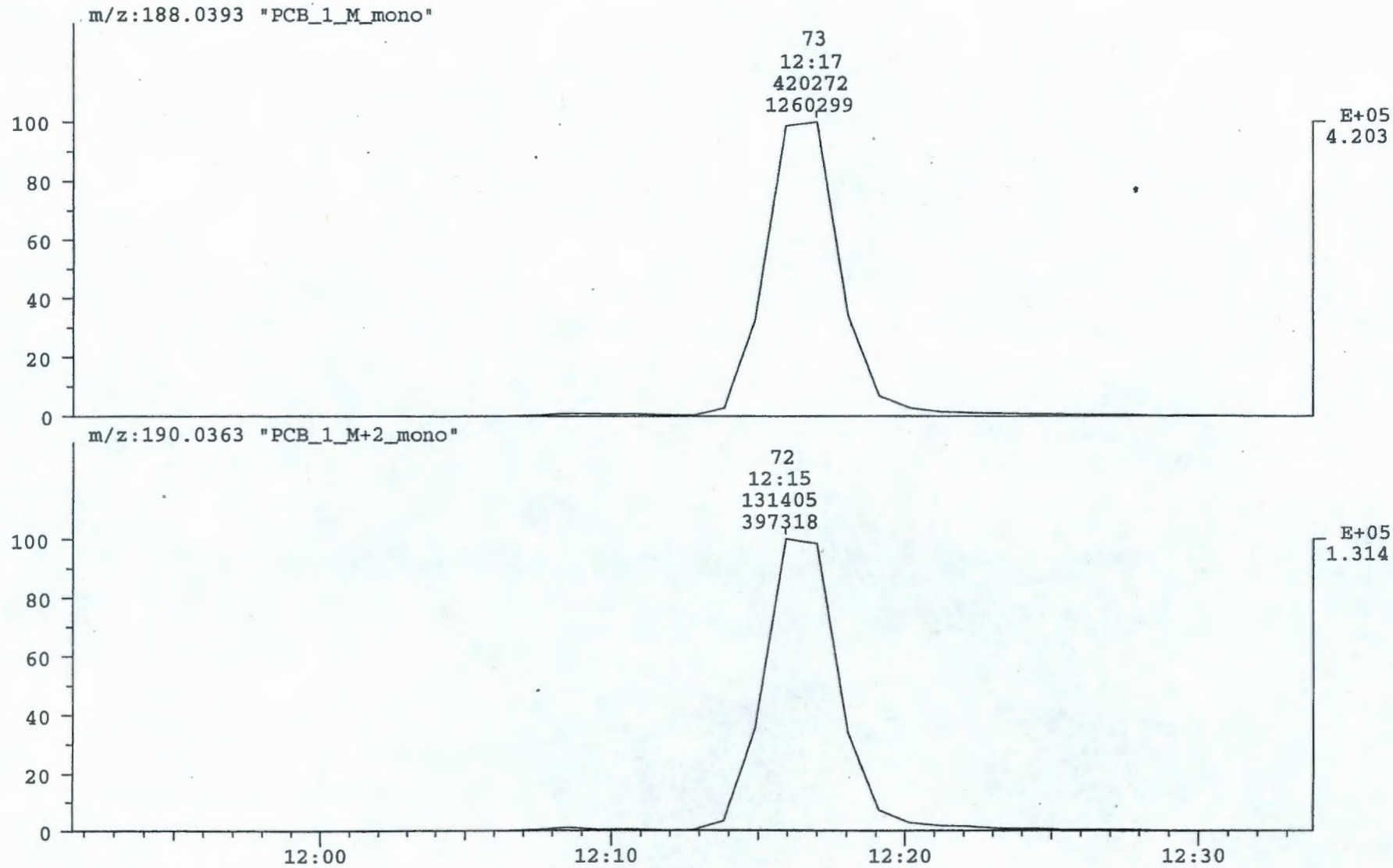


```
CHRO:  a070928s1                                28-Sep-07   Elapse:  13:25.6      138
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:05:38    2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



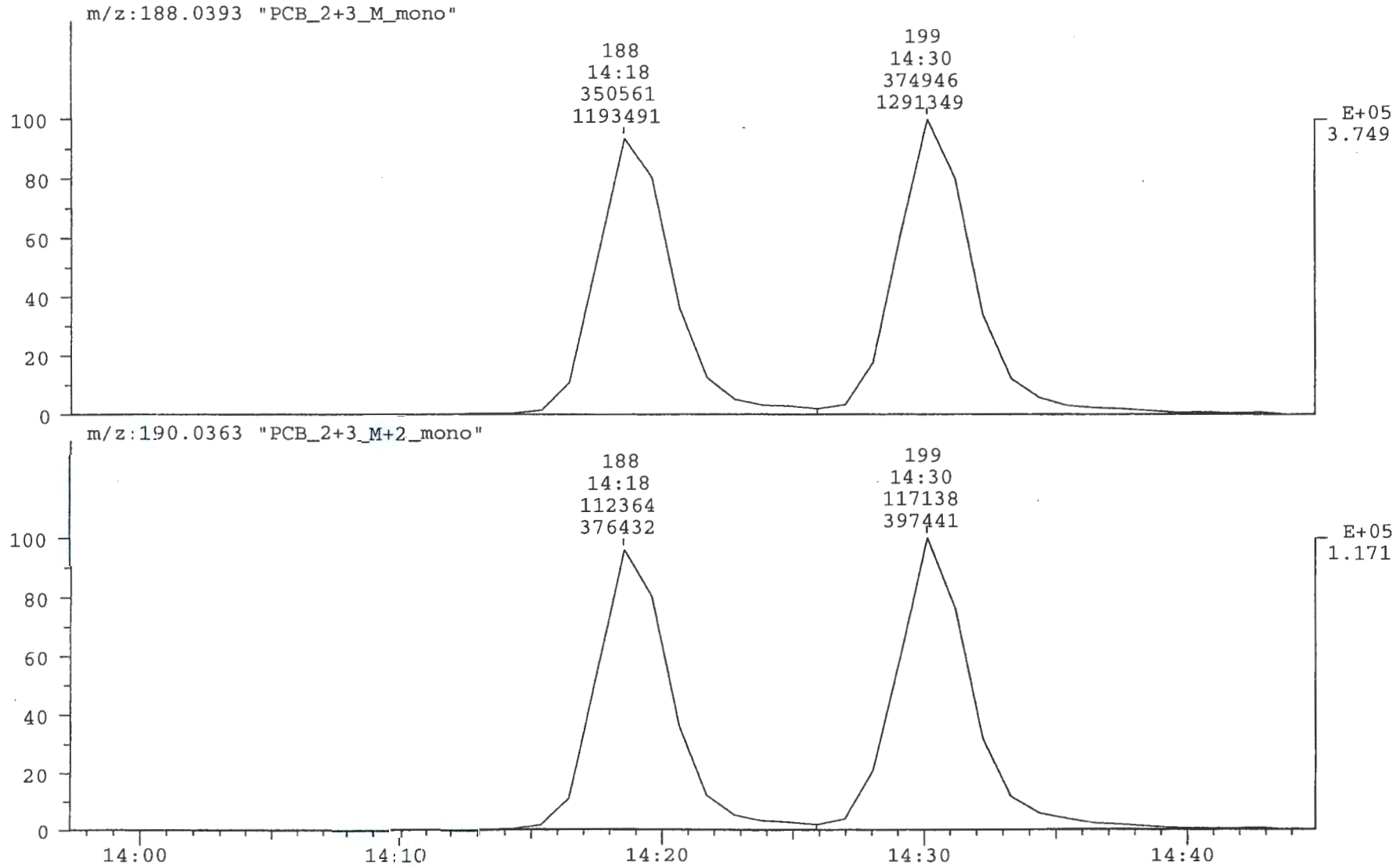
2390

```
CHRO:  a070928s1                                28-Sep-07  Elapse:  12:12.7      69
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:05:38   2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   49 > 89              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

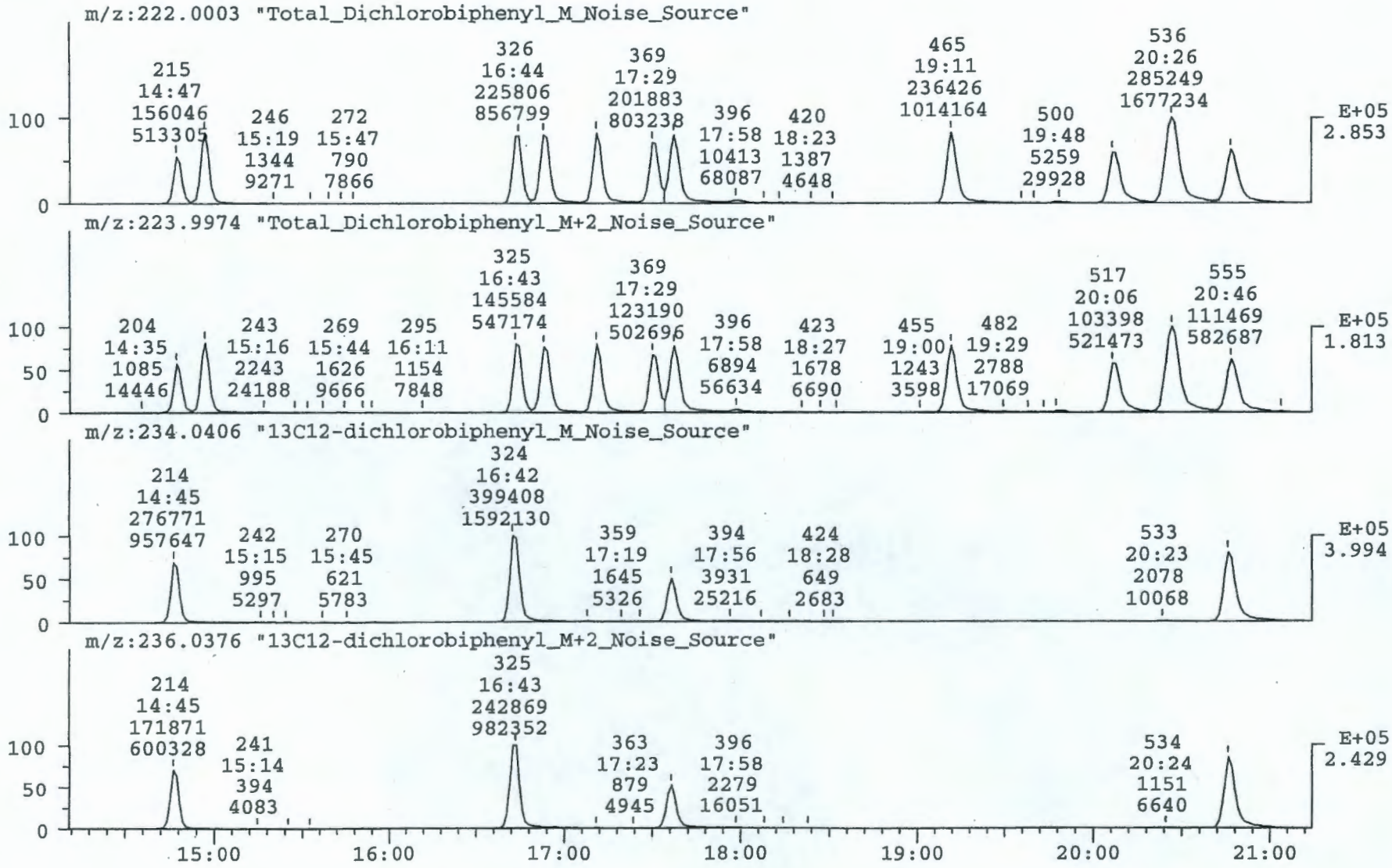


2391

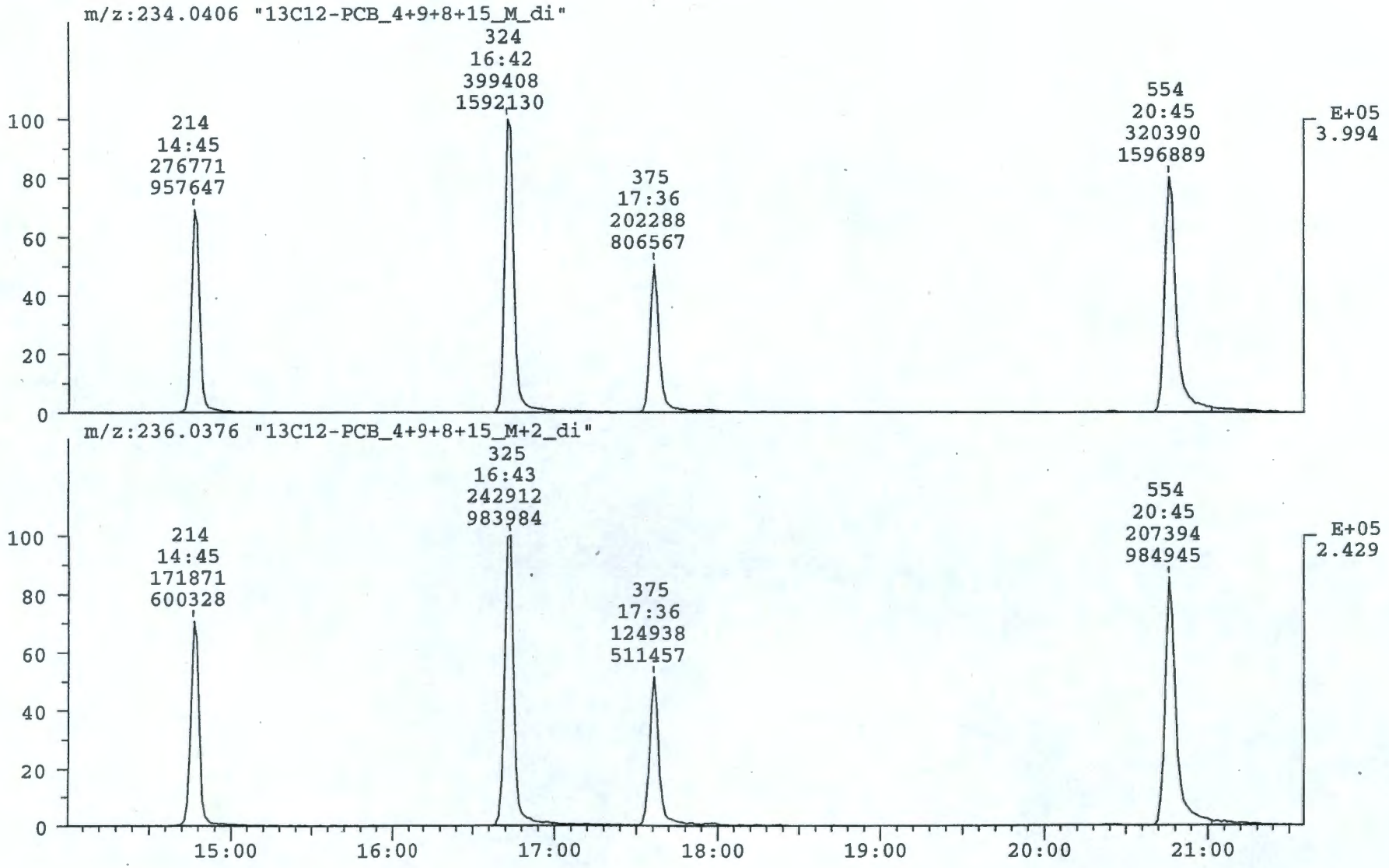
```
CHRO:  a070928s1                              28-Sep-07   Elapse:  14:23.8      193
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  12:05:38    2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   168 > 213           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a070928s1 28-Sep-07 Elapse: 17:42.6 381
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 12:05:38 2600
Comm: Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 181 > 581 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

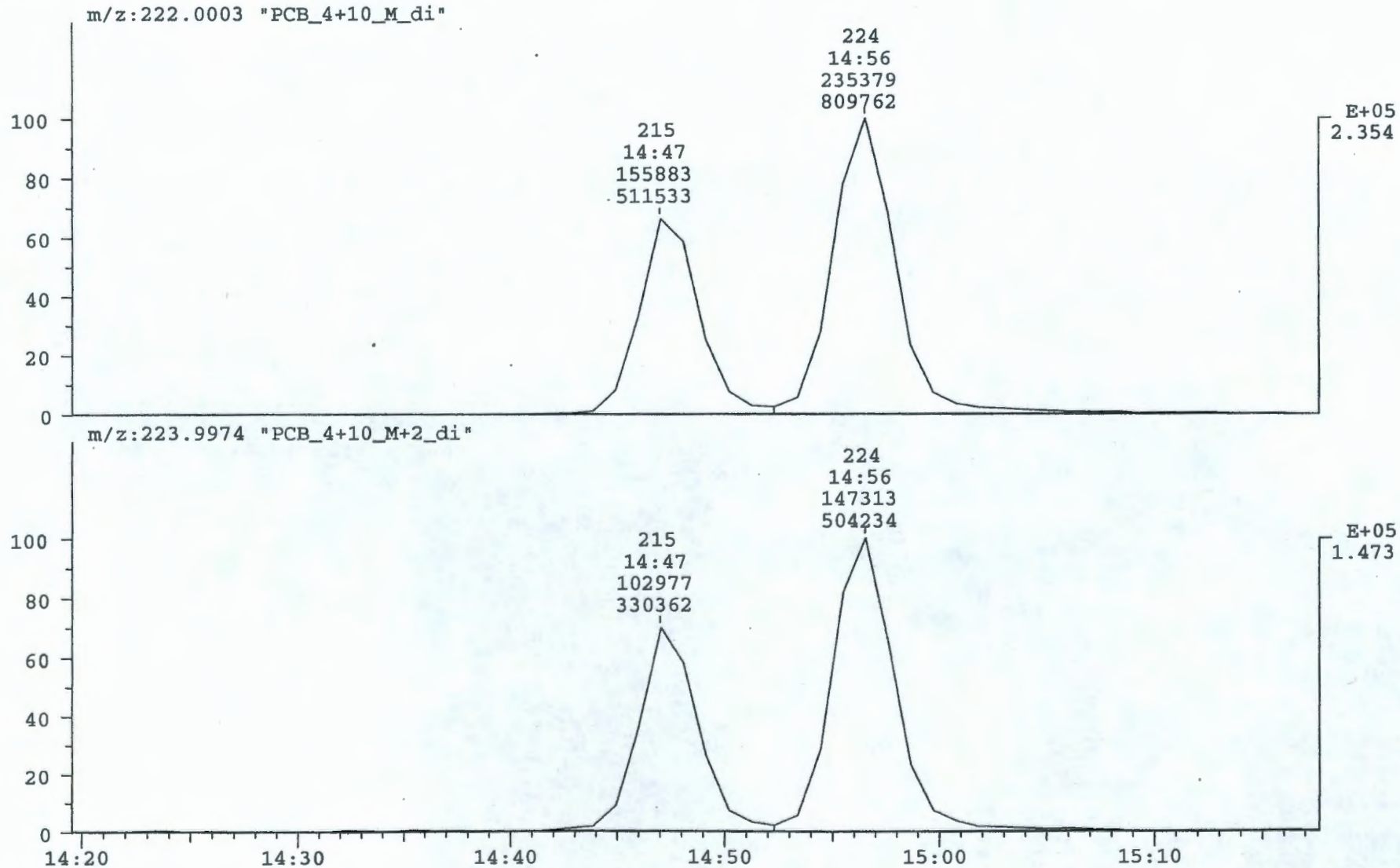


```
CHRO:  a070928s1                                28-Sep-07   Elapse:  17:42.6      381
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:05:38    2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   171 > 601             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



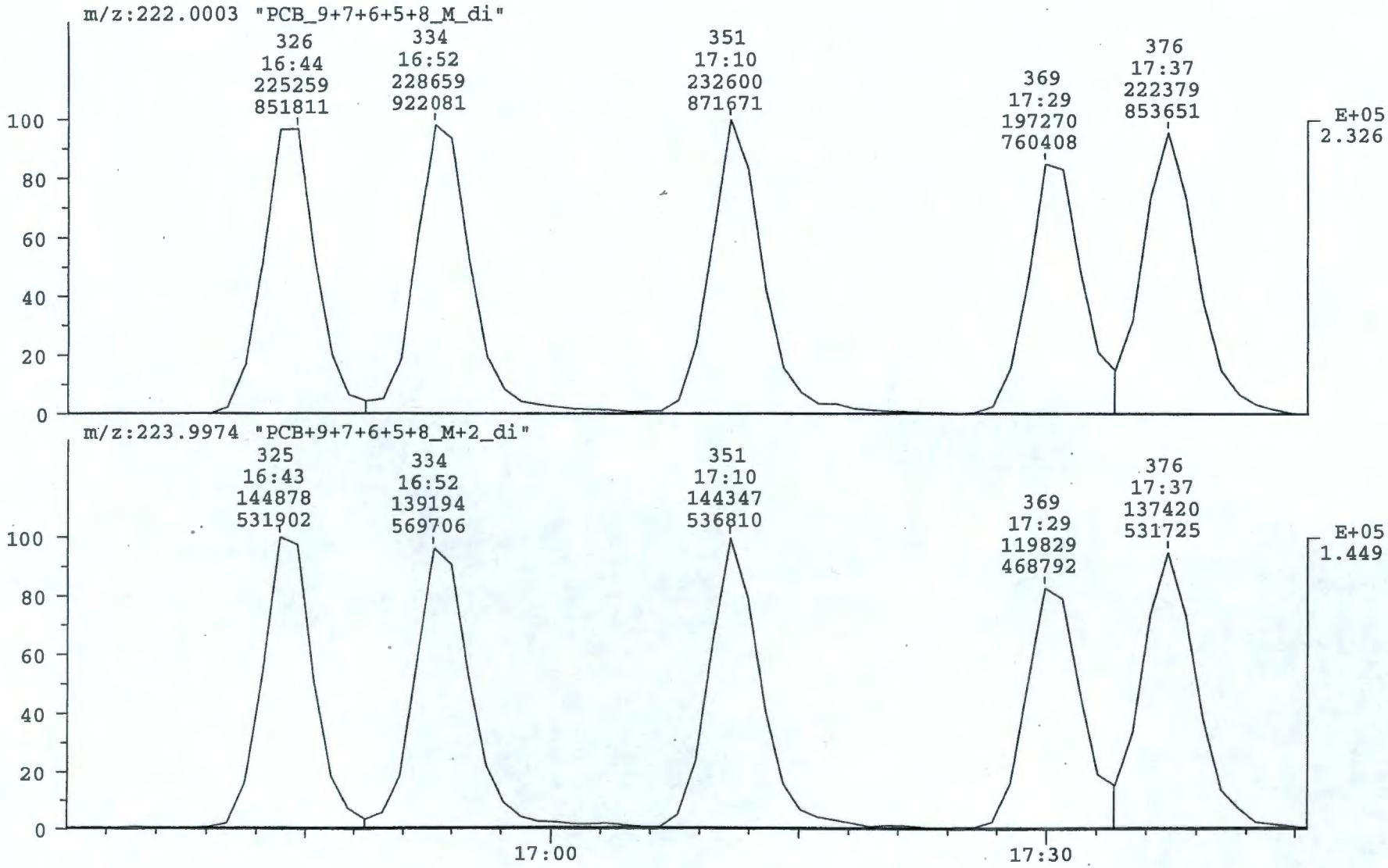
2394

```
CHRO:  a070928s1                                28-Sep-07   Elapse:  14:51.2      219
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  12:05:38    2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   189 > 244             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

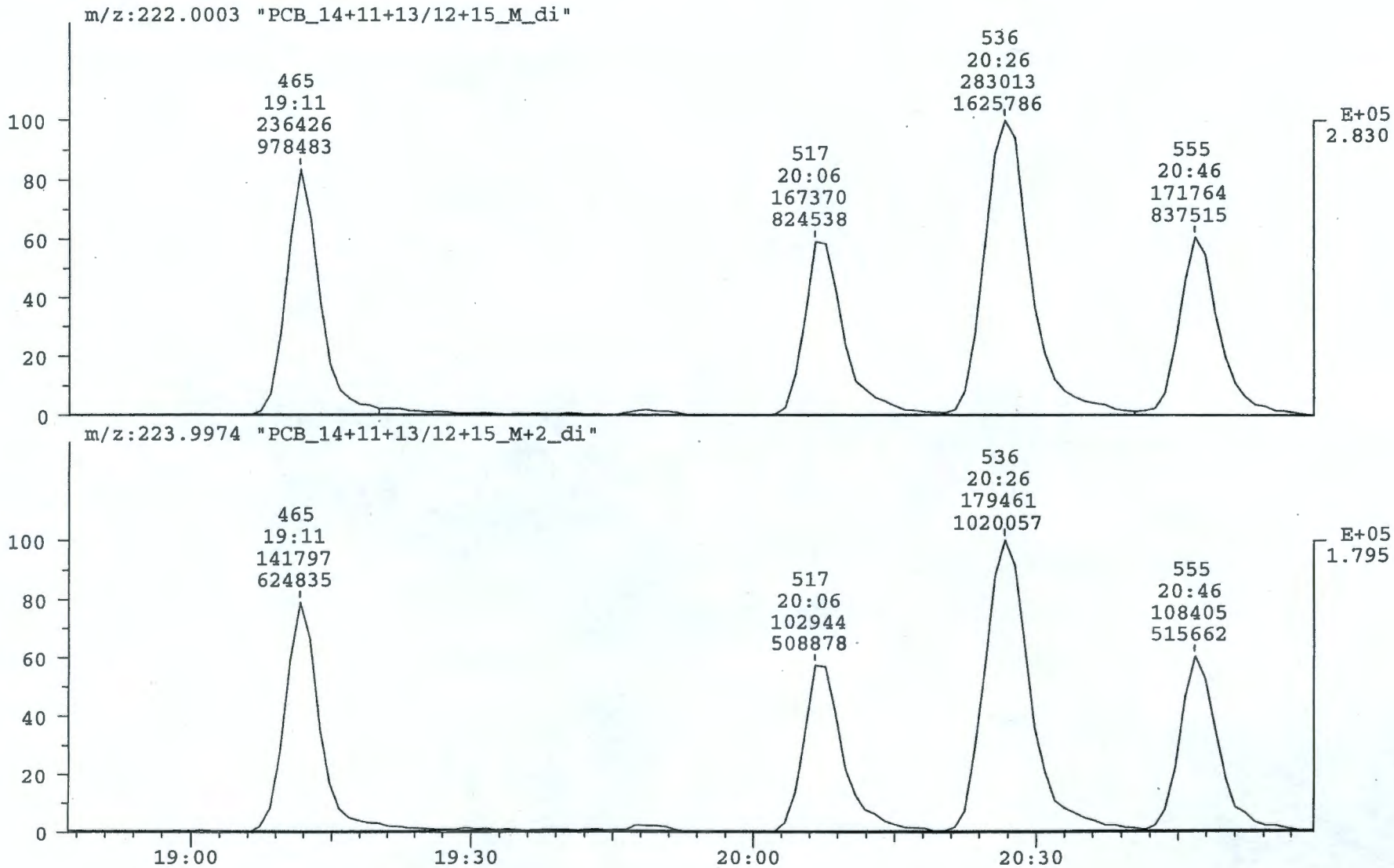


2395

```
CHRO:  a070928s1                                28-Sep-07  Elapse:  17:09.8     350
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:05:38   2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   313 > 384            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

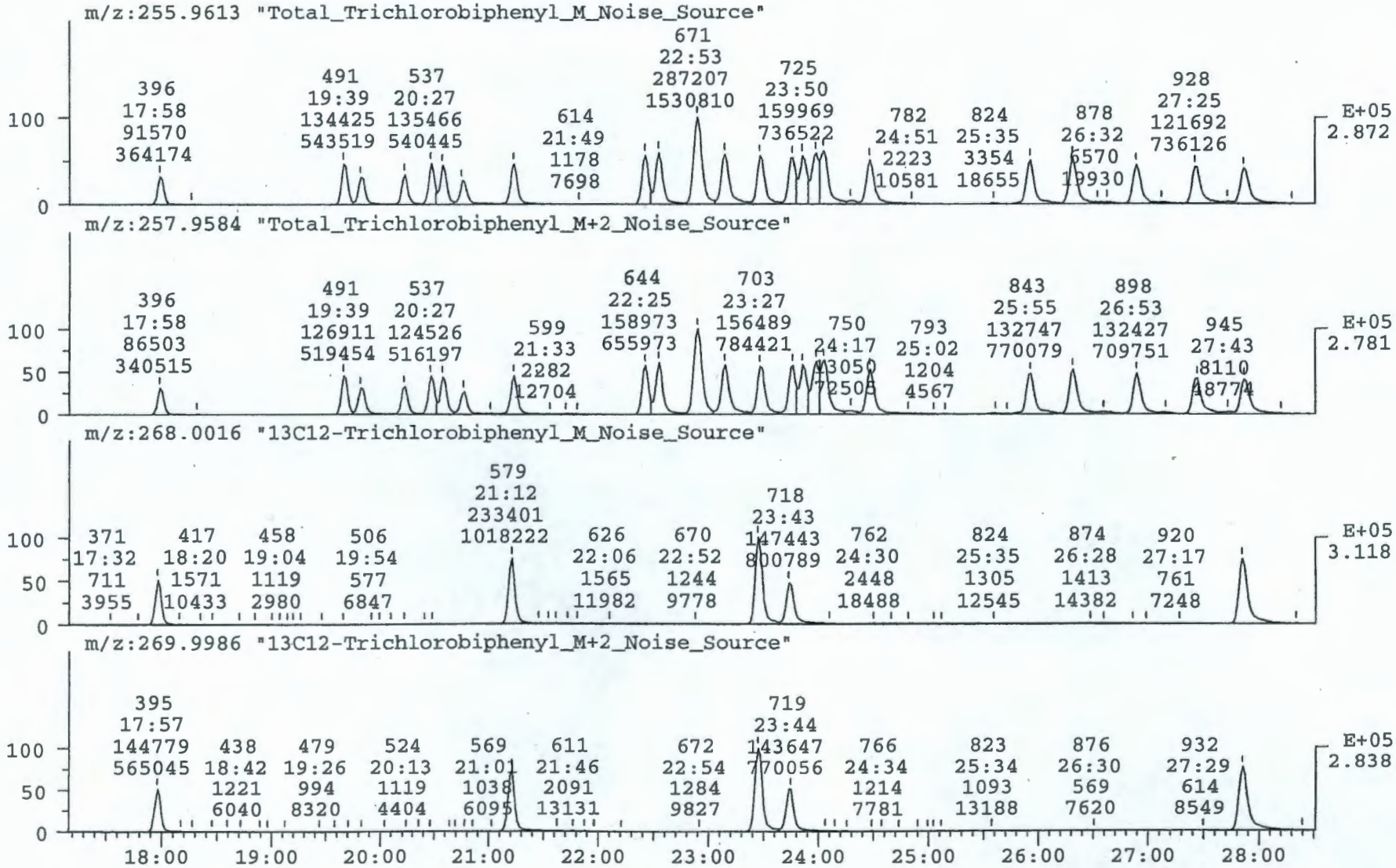


```
CHRO:  a070928s1                                28-Sep-07  Elapse:  19:55.9      507
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:05:38    2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   442 > 567            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2               Label :  -3, 3.0
Disp:  Height  Area
```

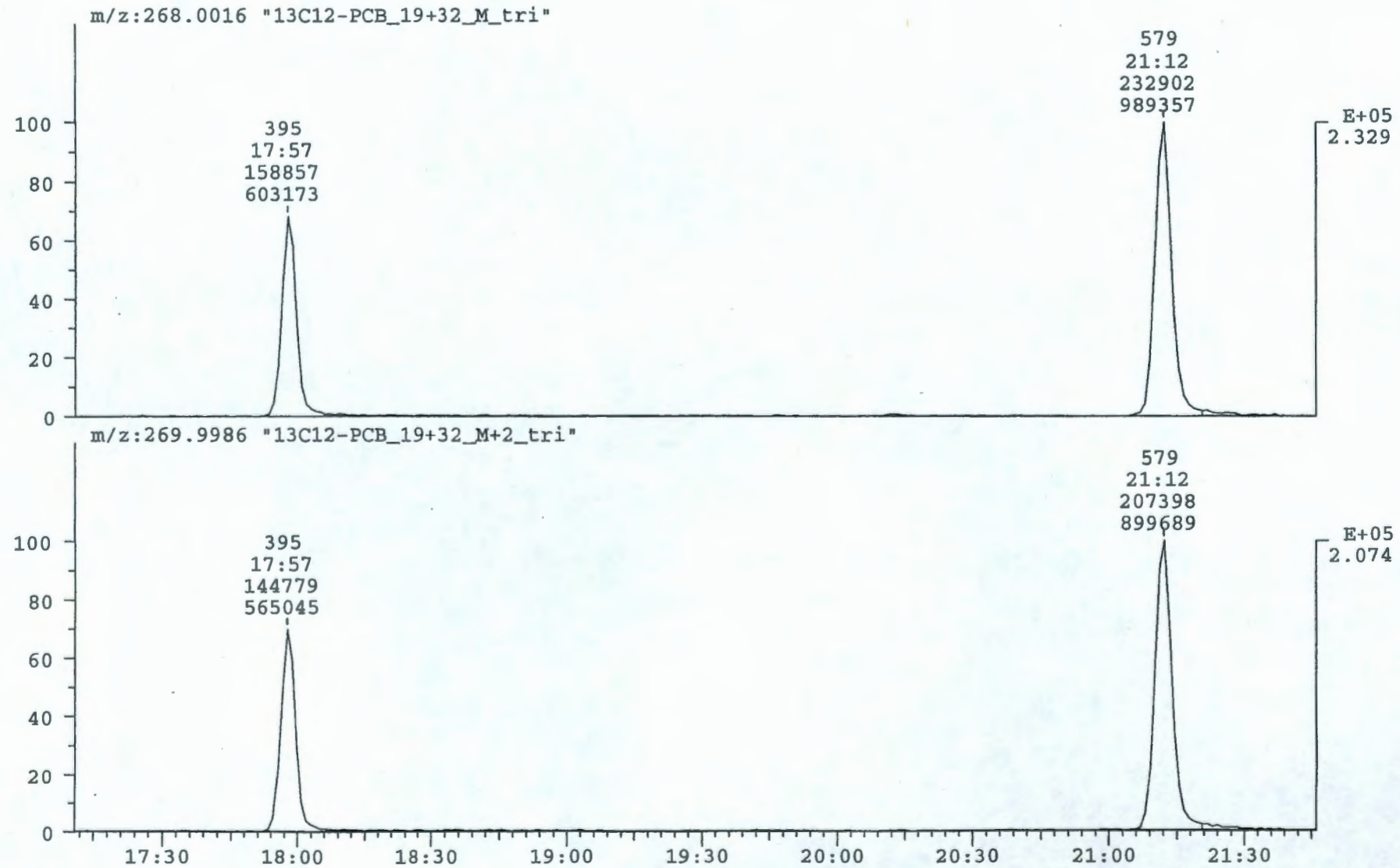


2397

CHRO: a070928s1 28-Sep-07 Elapse: 22:52.7 670
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 12:05:38 2600
Comm: Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 350 > 990 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

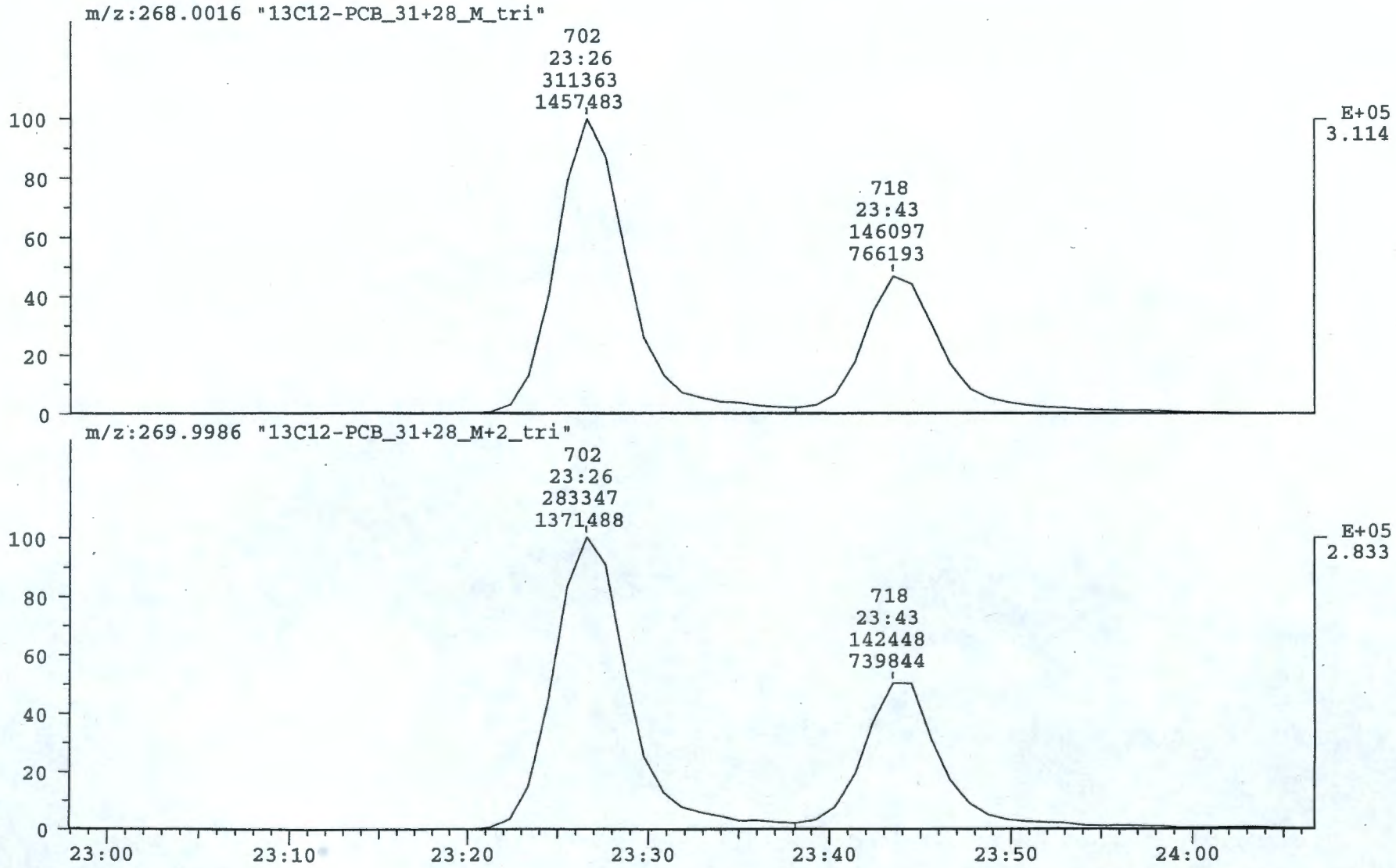


```
CHRO:  a070928s1                                28-Sep-07  Elapse:  19:17.8      471
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:05:38    2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   351 > 611            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1               Label :  -3, 3.0
Disp:  Height  Area
```



2399

```
CHRO:  a070928s1                                28-Sep-07  Elapse:  23:24.4      700
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  12:05:38    2600
Comm:  Inst=m1d/35055-03a Batch=20070928s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   675 > 740            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



2400