0082569

J00469

DATA PACKAGE

SECTION

10 OF 18

RECEIVED
JUL 22 2009
EDMC

```
CHRO:  a080625ss                                25-Jun-08  Elapse:  33:19      1265
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1245 > 1292          Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 12              Label :  -3, 3.0
Disp:  Height  Area
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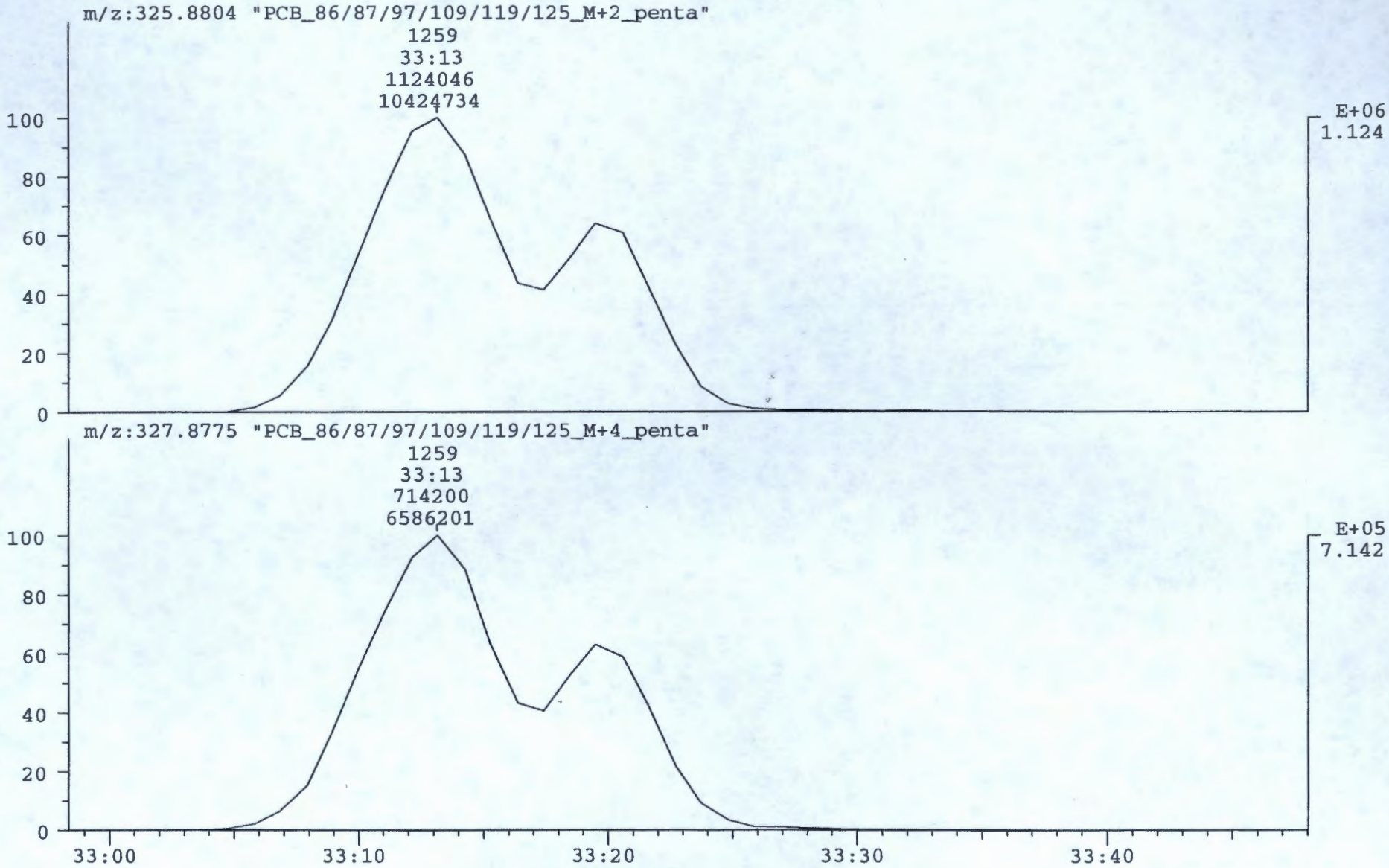

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CHRO:  a080625ss                                25-Jun-08   Elapse:  34:07      1310
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                    Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1284 > 1328           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 6                Label :  -3, 3.0
Disp:  Height  Area
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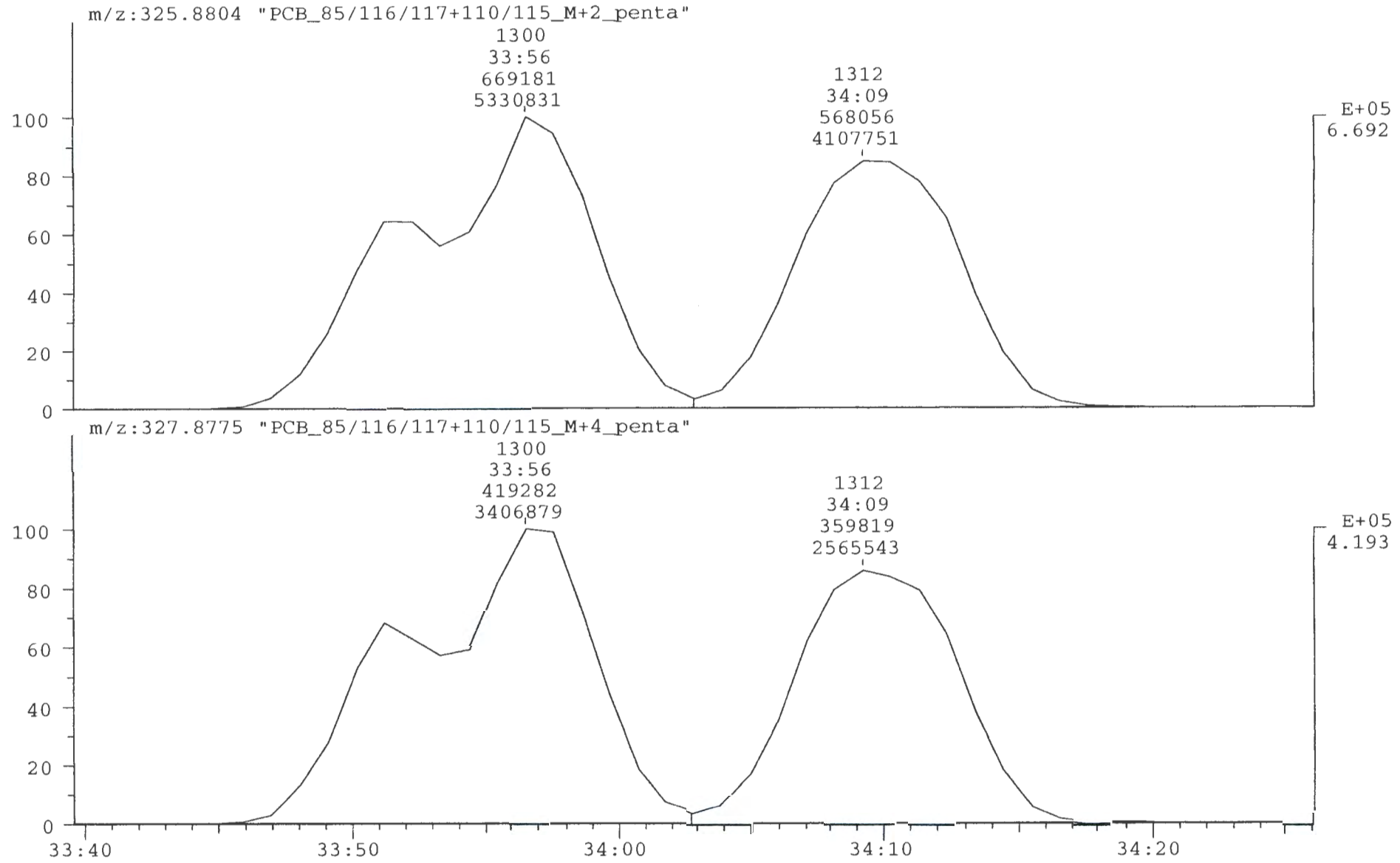

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CHRO:  a080625ss                                25-Jun-08  Elapse:  34:37      1339
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  15
Peak:  100.00  ppm     Label wndw:   1317 > 1389           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
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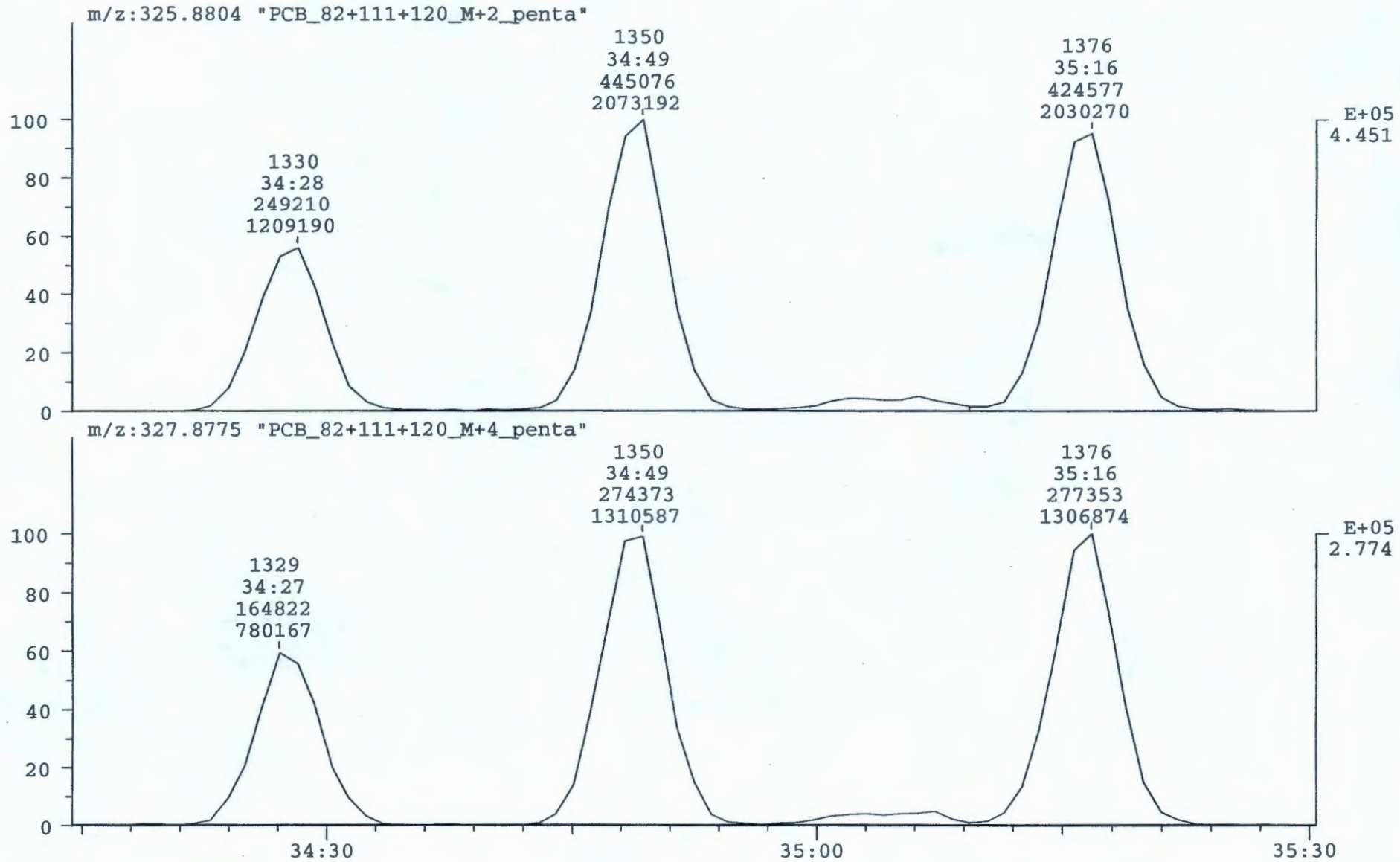

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CHRO:  a080625ss                                25-Jun-08  Elapse:  36:57      1467
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1427 > 1489          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
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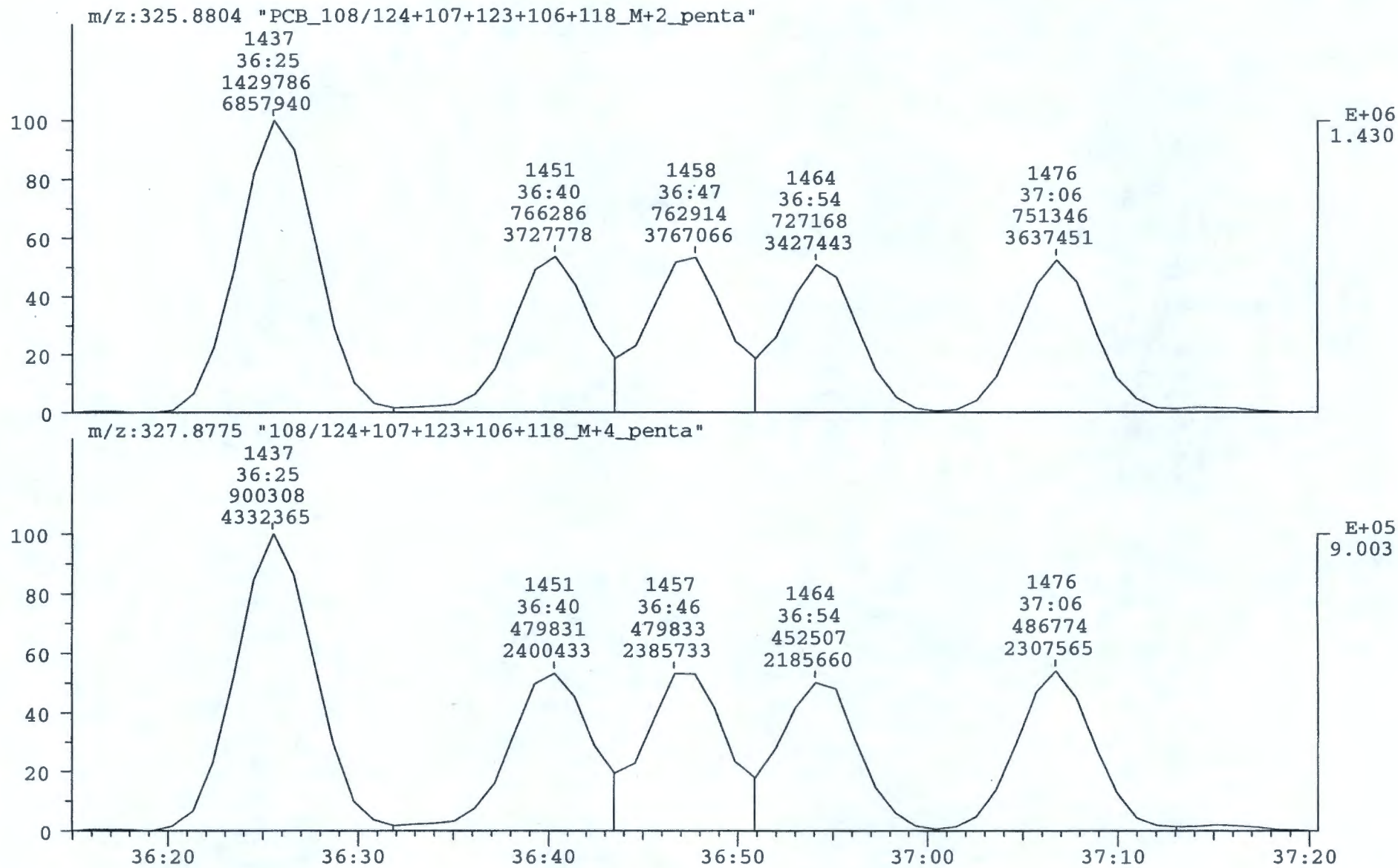

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CHRO:  a080625ss                                25-Jun-08  Elapse:  37:57      1524
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1487 > 1562          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
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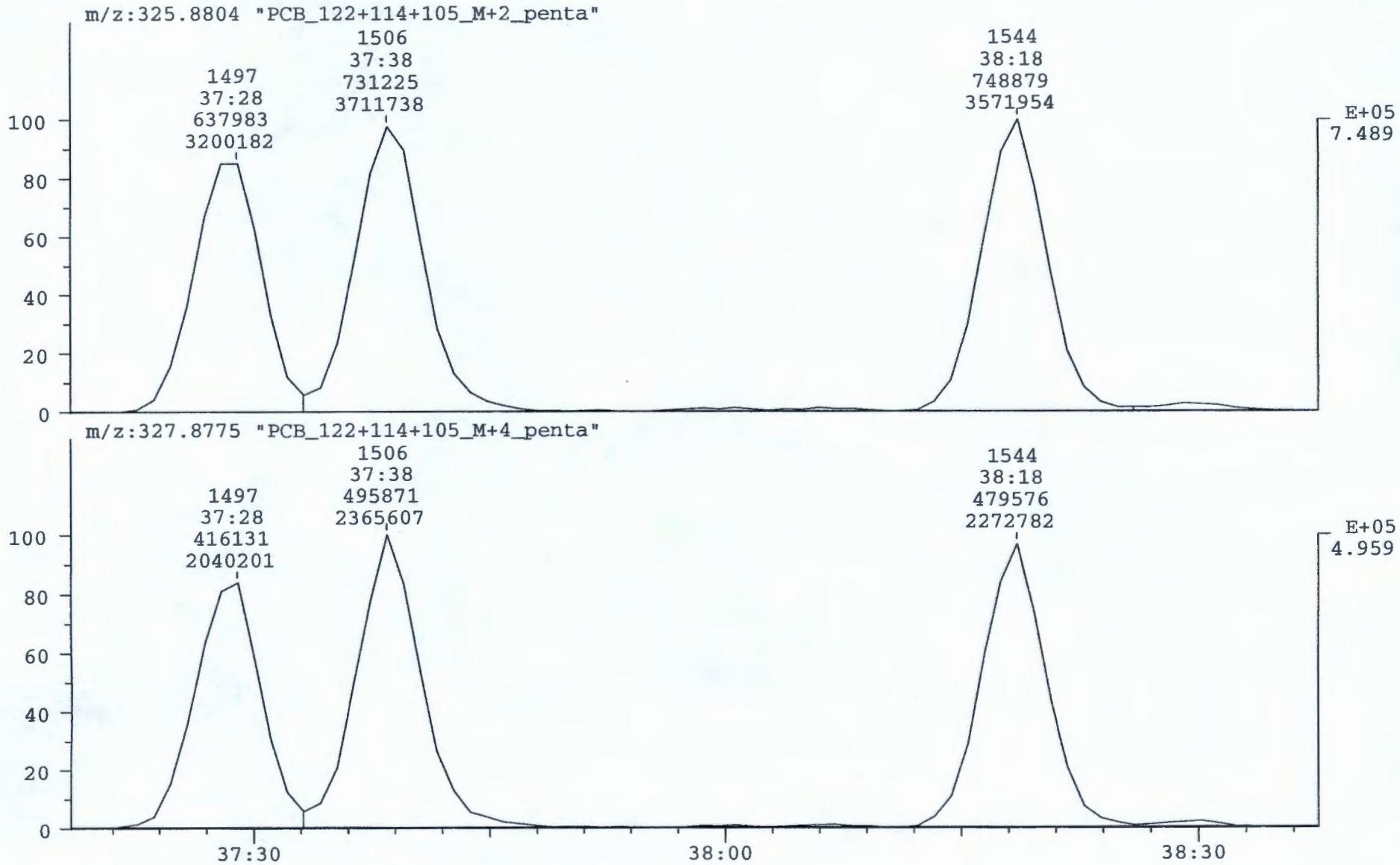

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CHRO:  a080625ss                                25-Jun-08  Elapse:  40:38      1676
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1608 > 1746          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1               Label :  -3, 3.0
Disp:  Height  Area
```
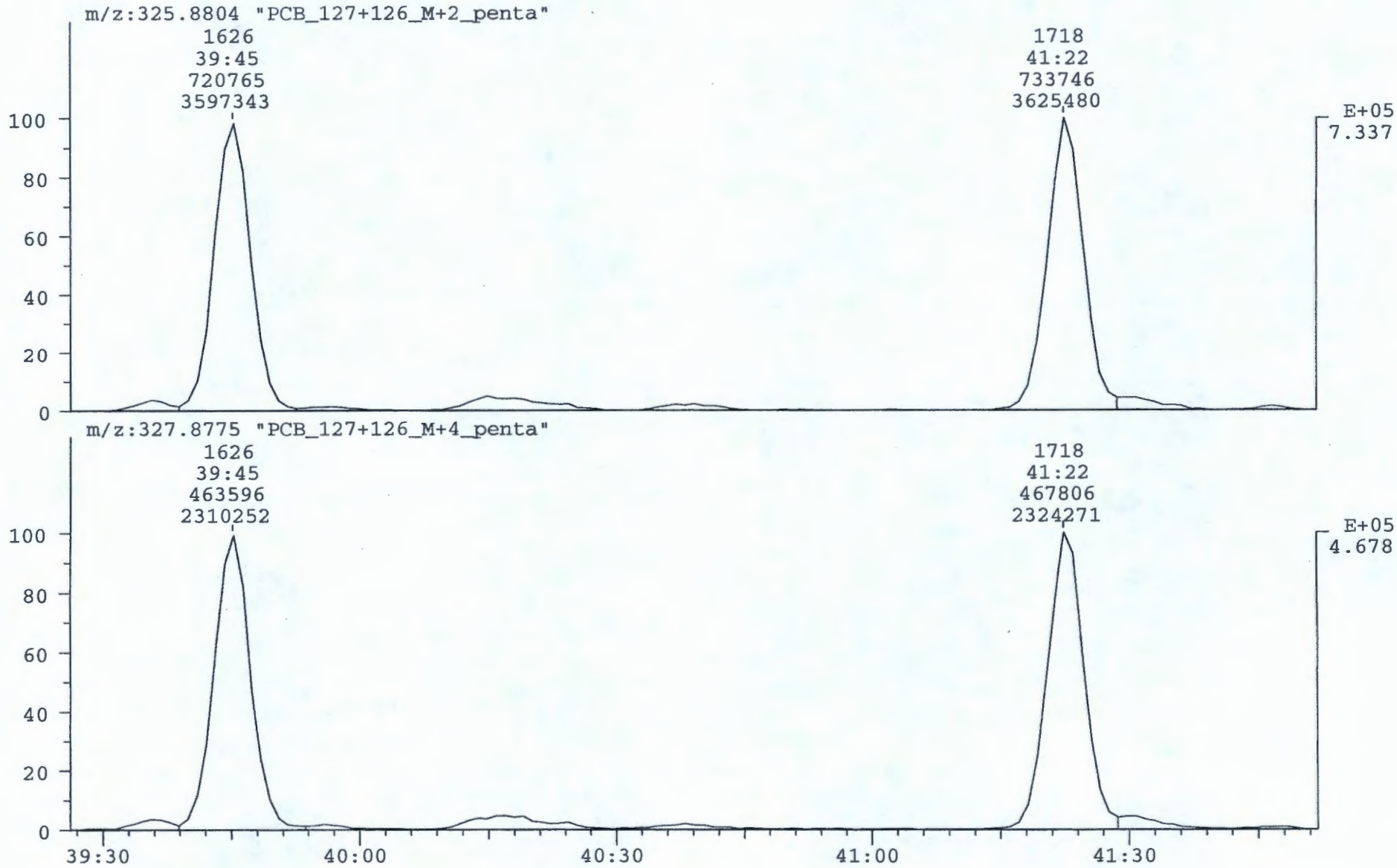
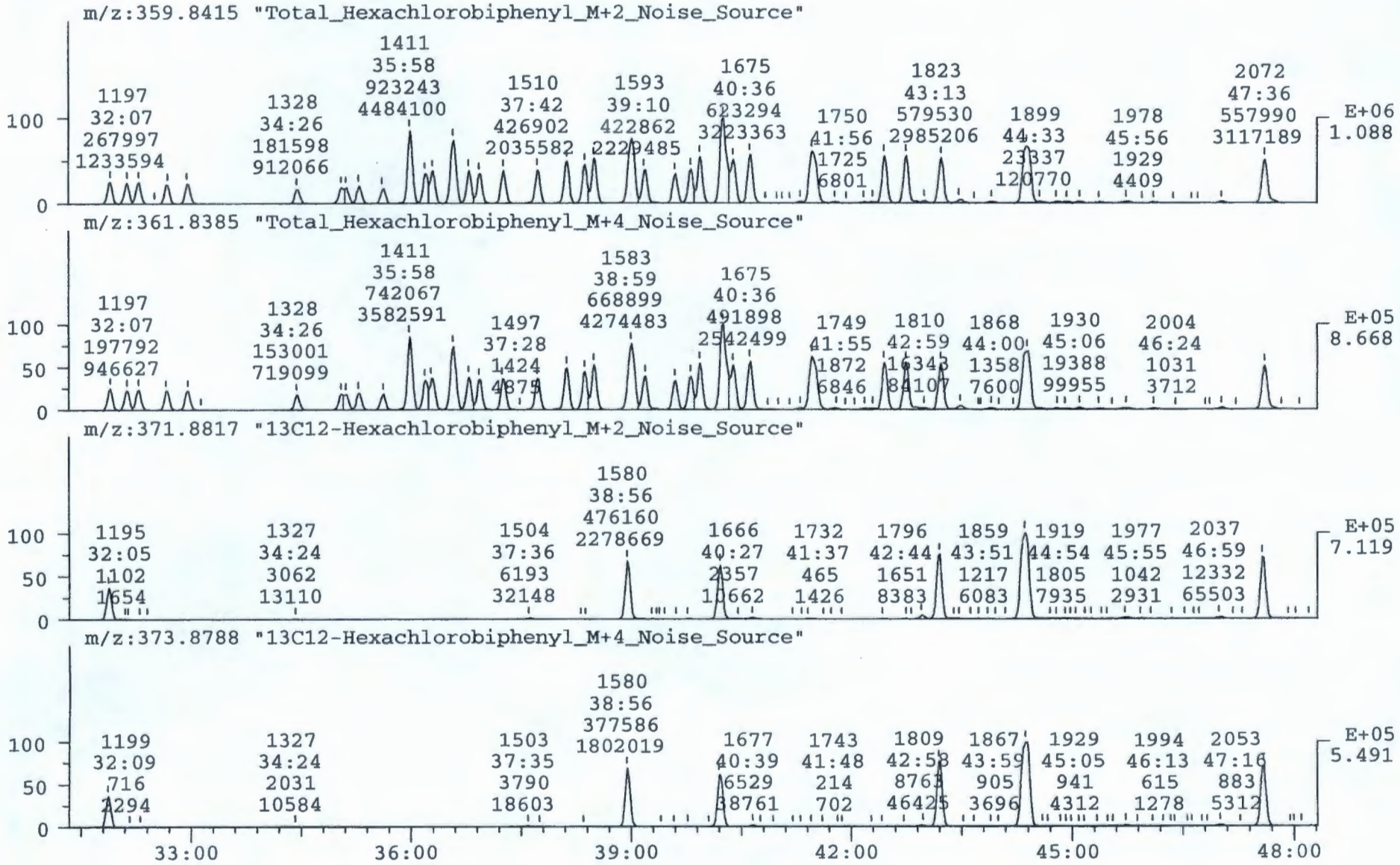



CHRO: a080625ss 25-Jun-08 Elapse: 39:49 1630
Samp: Vial 15 WO=2990:74 Meth=IE3 Dil=1 Start : 11:18:46 2603
Comm: Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 ICAL SS
Oper: DCG Client: TA Knoxville Inlet : GC Vial 15
Peak: 100.00 ppm Label wndw: 1152 > 2113 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



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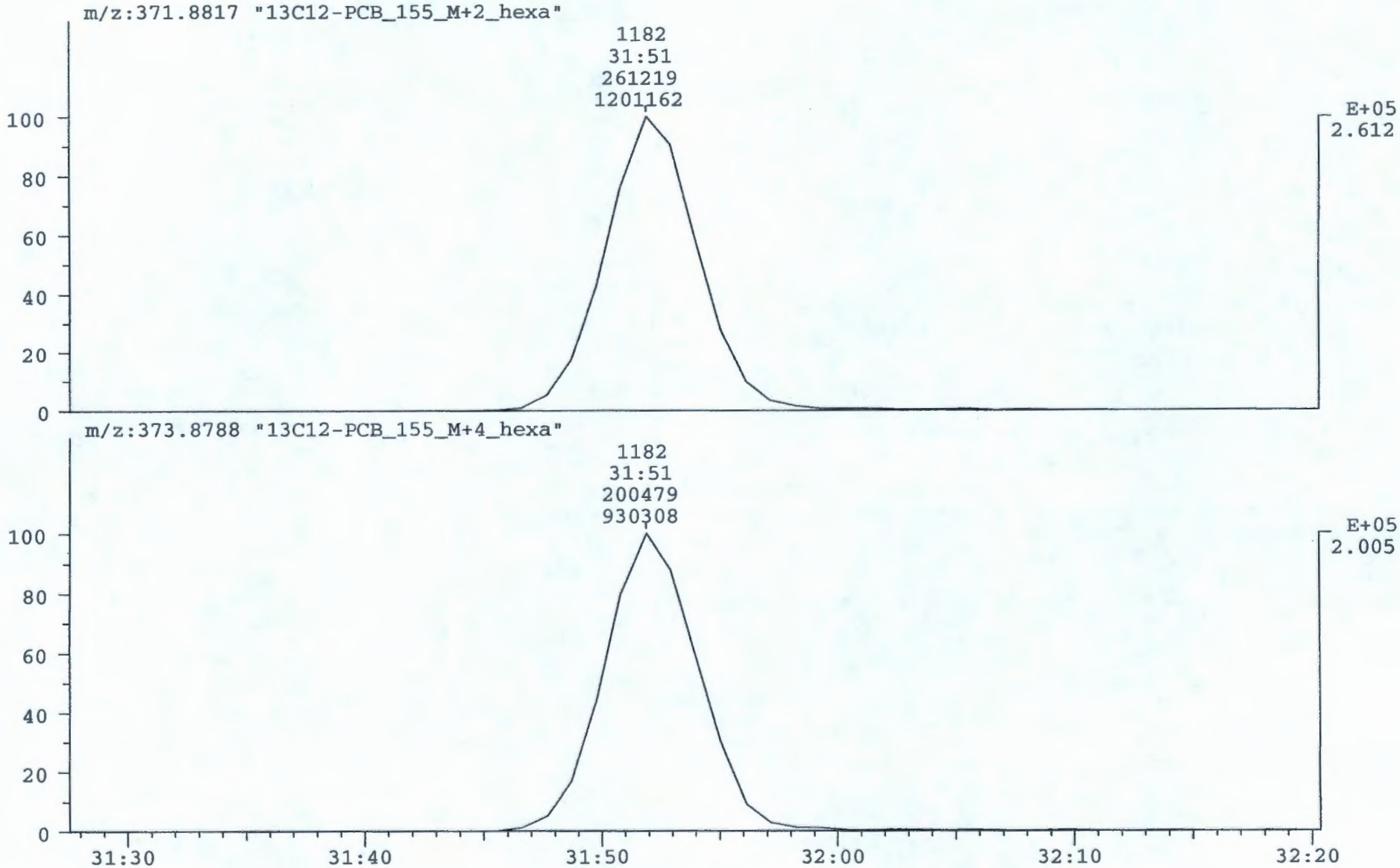
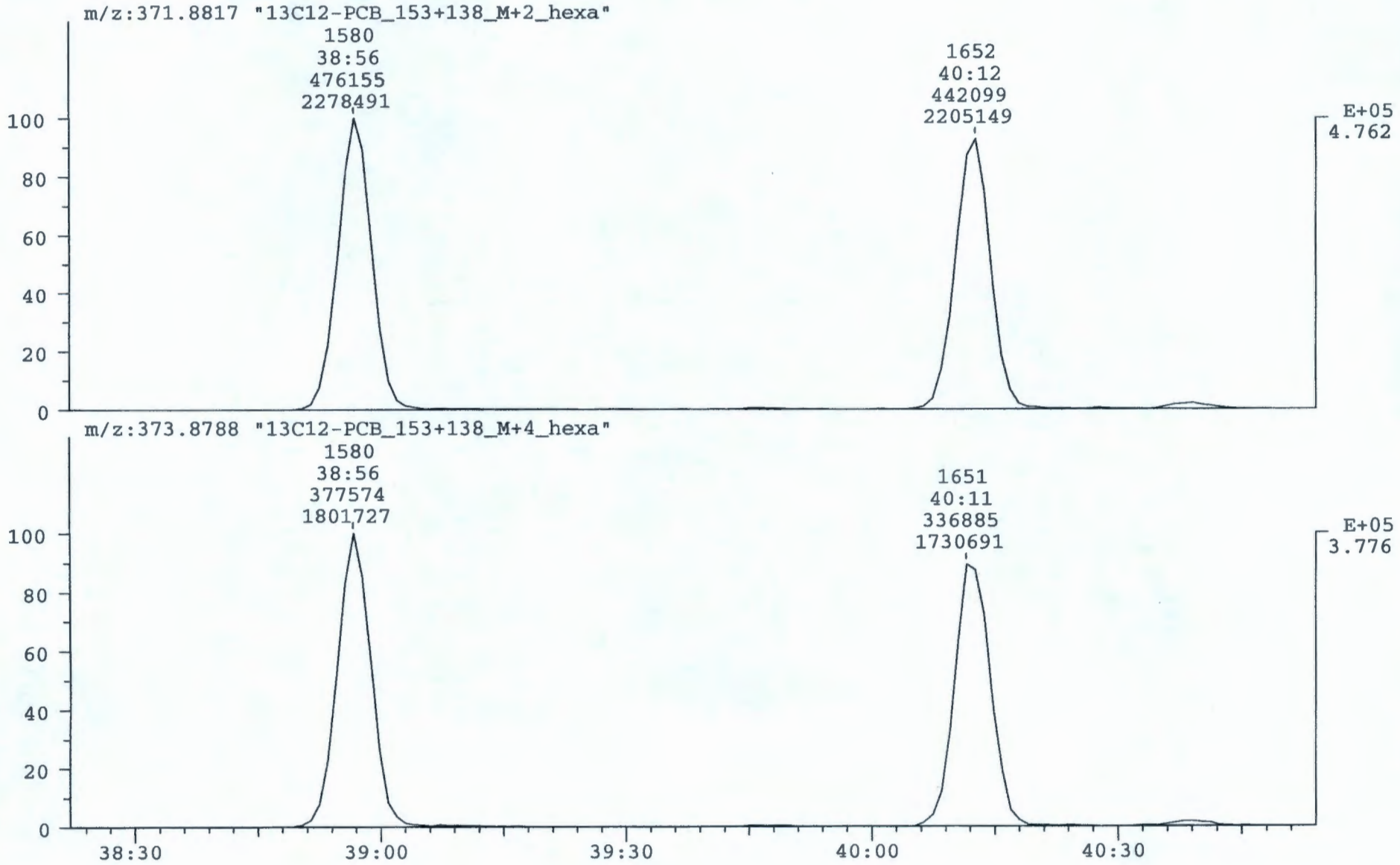
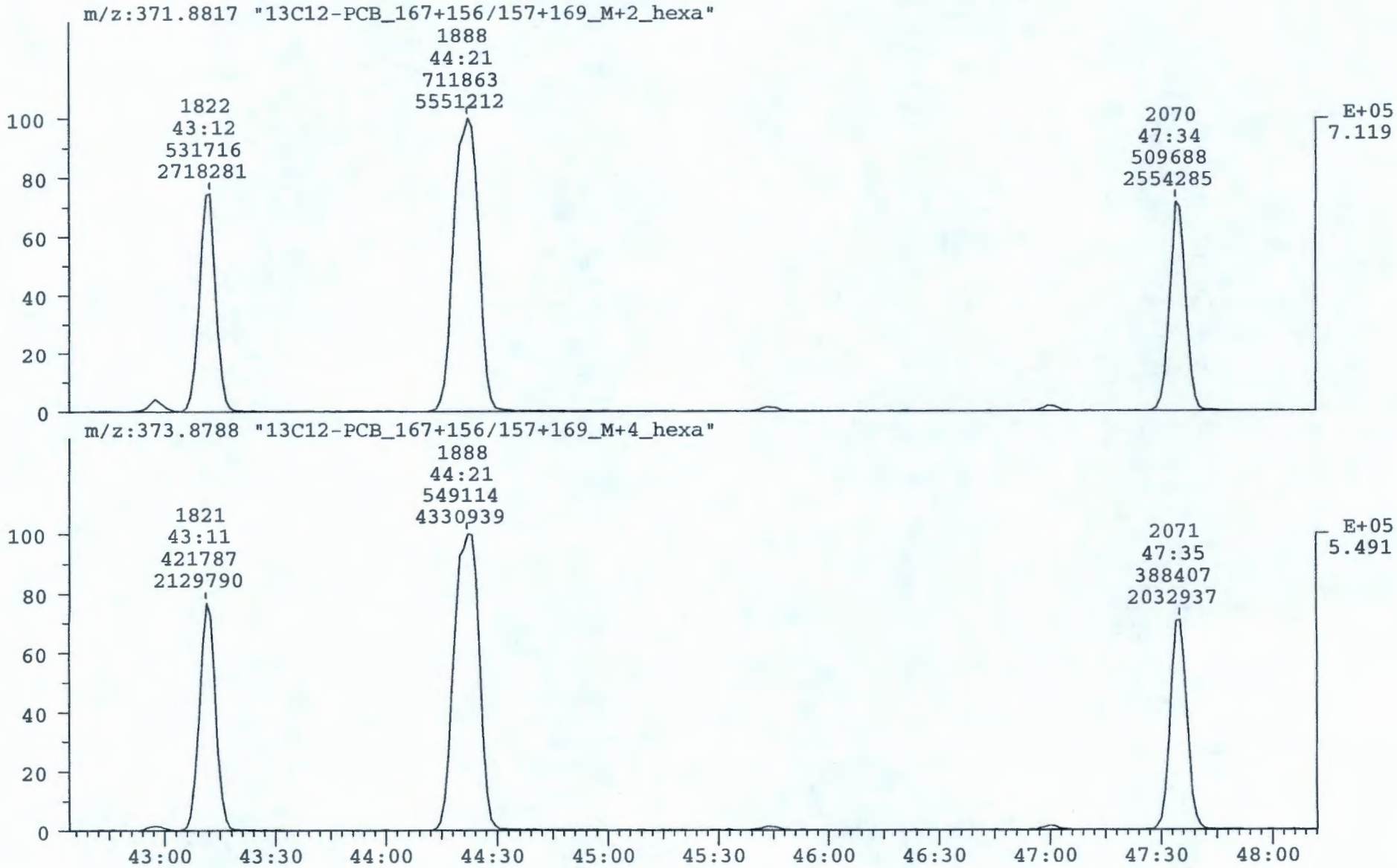
CHRO:  a080625ss                                25-Jun-08  Elapse:  31:54      1184
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1159 > 1209          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



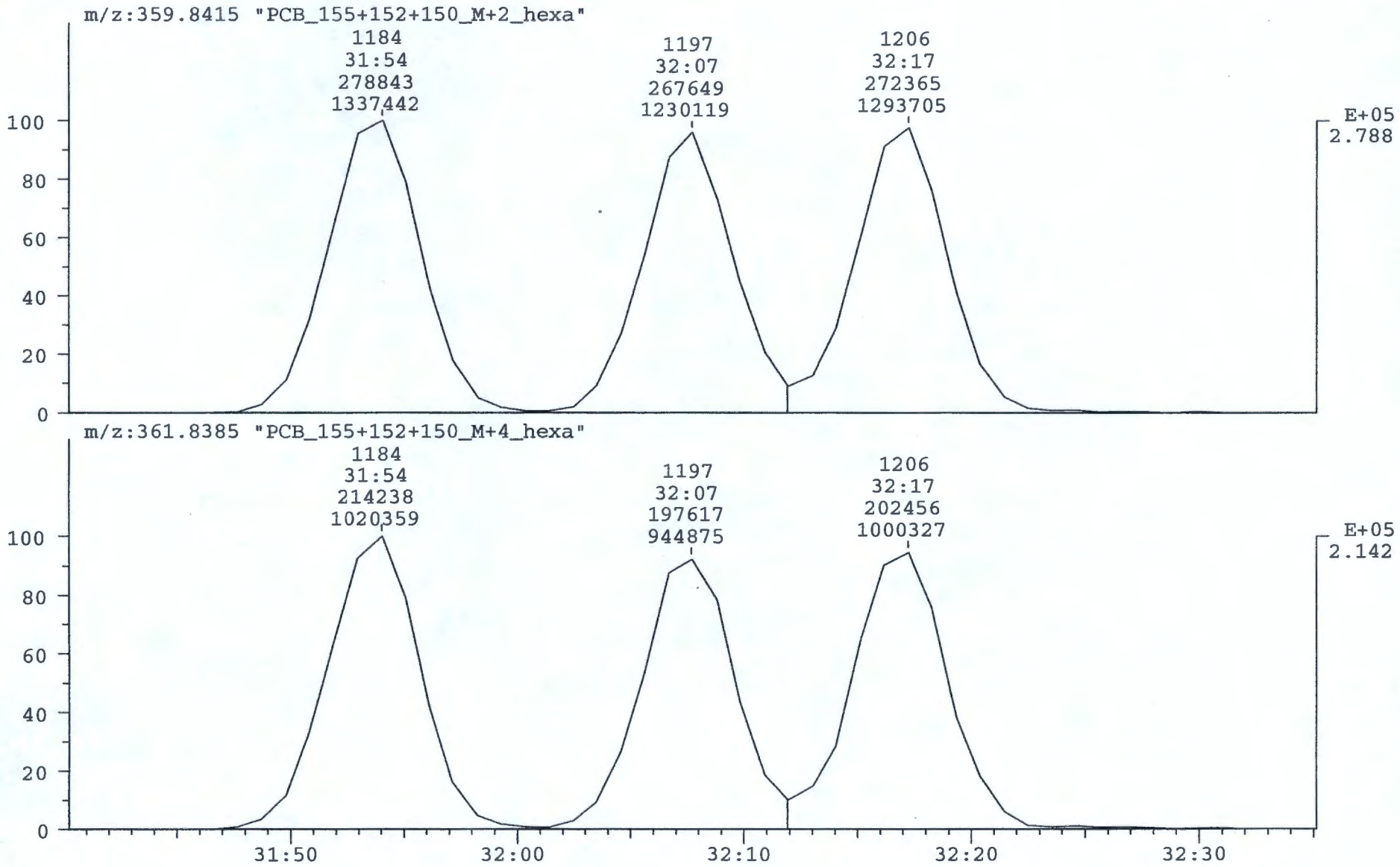
CHRO: a080625ss 25-Jun-08 Elapse: 39:37 1619
Samp: Vial 15 WO=2990:74 Meth=IE3 Dil=1 Start : 11:18:46 2603
Comm: Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 ICAL SS
Oper: DCG Client: TA Knoxville Inlet : GC Vial 15
Peak: 100.00 ppm Label wndw: 1547 > 1691 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a080625ss                                25-Jun-08  Elapse:  45:28      1951
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1786 > 2106          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 4               Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a080625ss 25-Jun-08 Elapse: 32:08 1198
Samp: Vial 15 WO=2990:74 Meth=IE3 Dil=1 Start : 11:18:46 2603
Comm: Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 ICAL SS
Oper: DCG Client: TA Knoxville Inlet : GC Vial 15
Peak: 100.00 ppm Label wndw: 1171 > 1223 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a080625ss                                25-Jun-08  Elapse:  32:52      1239
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1214 > 1264          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
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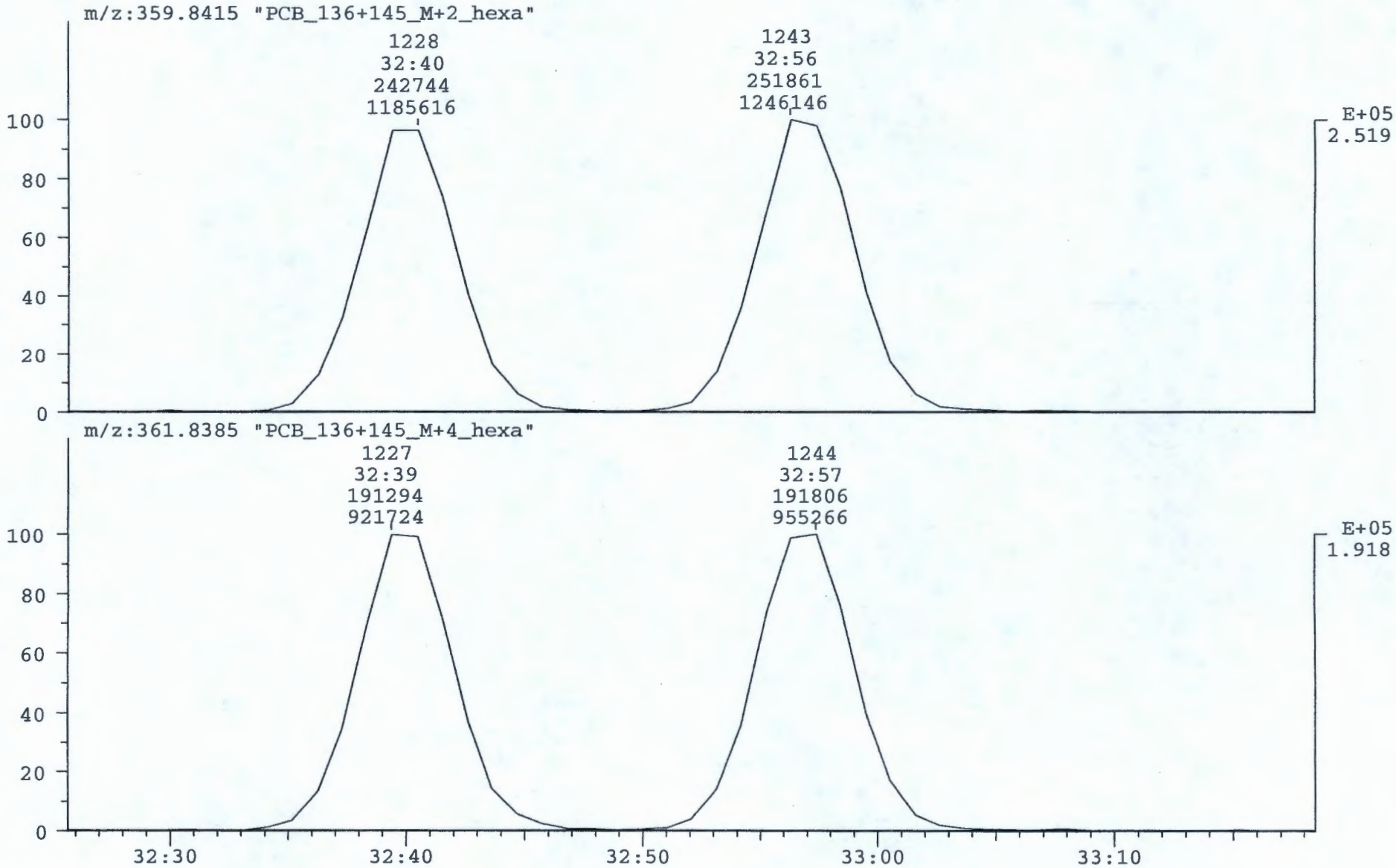
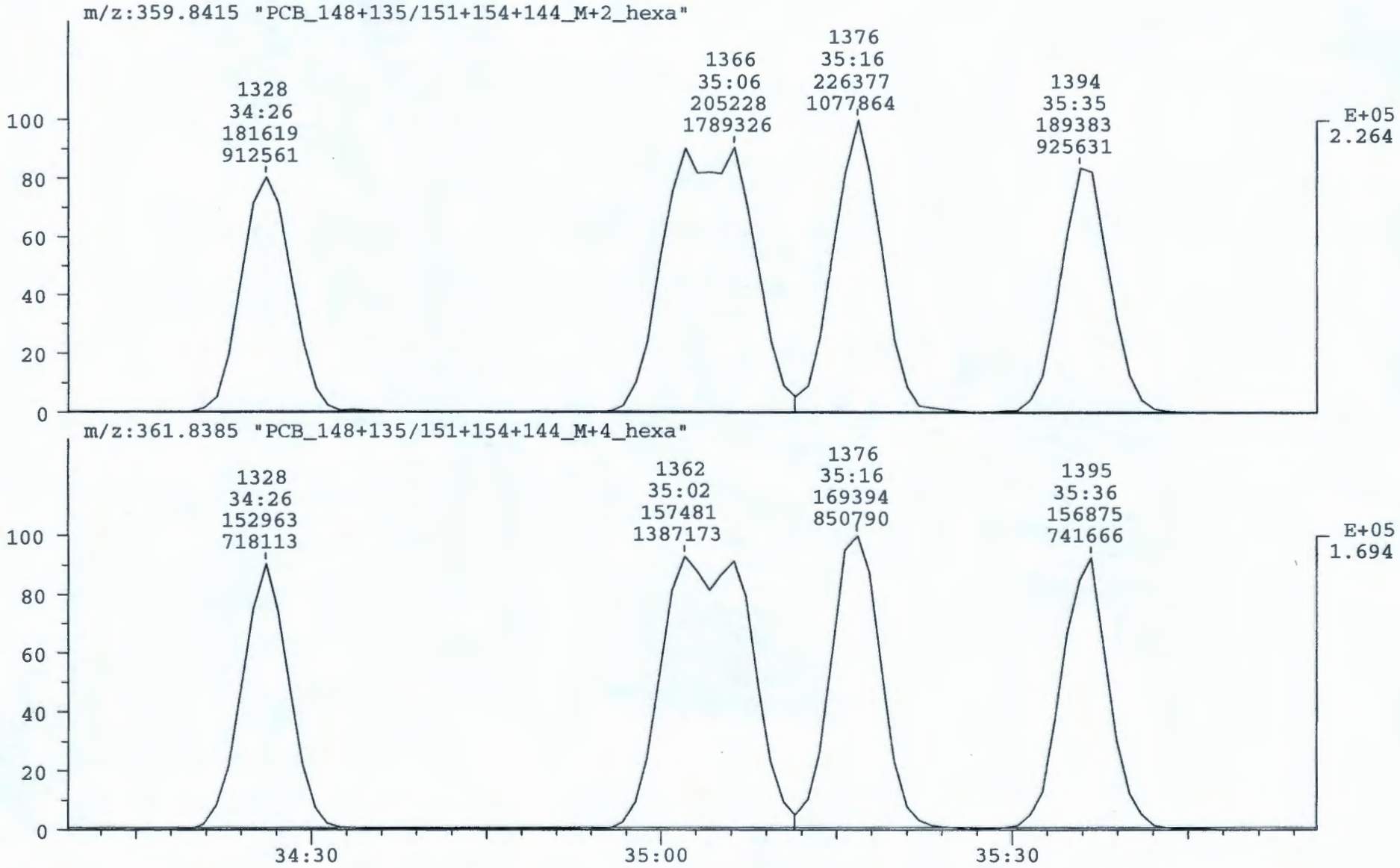
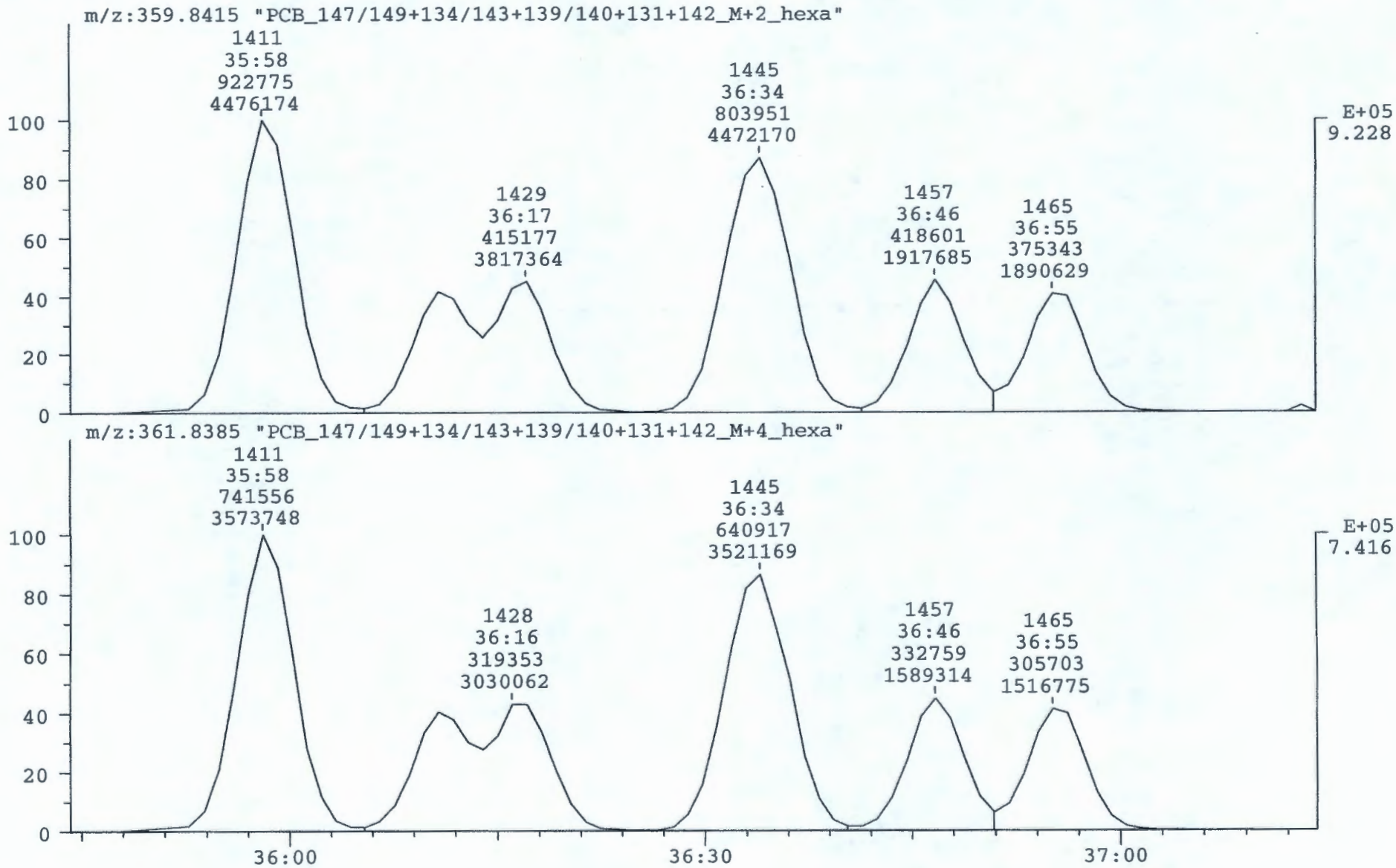


```
CHRO:  a080625ss                                25-Jun-08  Elapse:  35:07      1367
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1312 > 1409          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 6               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a080625ss                                25-Jun-08   Elapse:  36:35      1446
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                    Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1402 > 1483           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 6                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a080625ss                              25-Jun-08  Elapse:  37:16      1485
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                 Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville              Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1475 > 1500        Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
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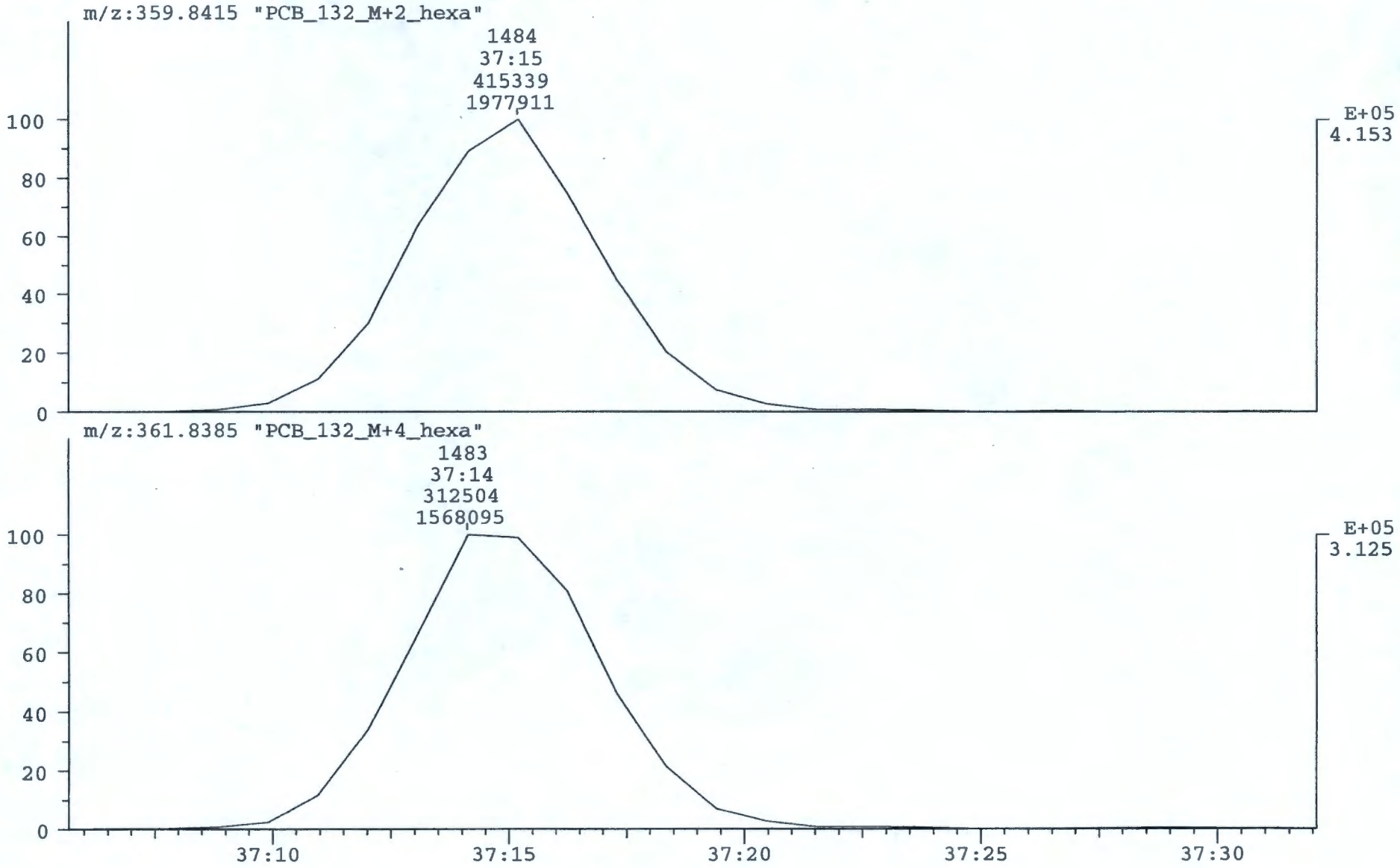

```
CHRO:  a080625ss                                25-Jun-08  Elapse:  38:10      1536
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1500 > 1569          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
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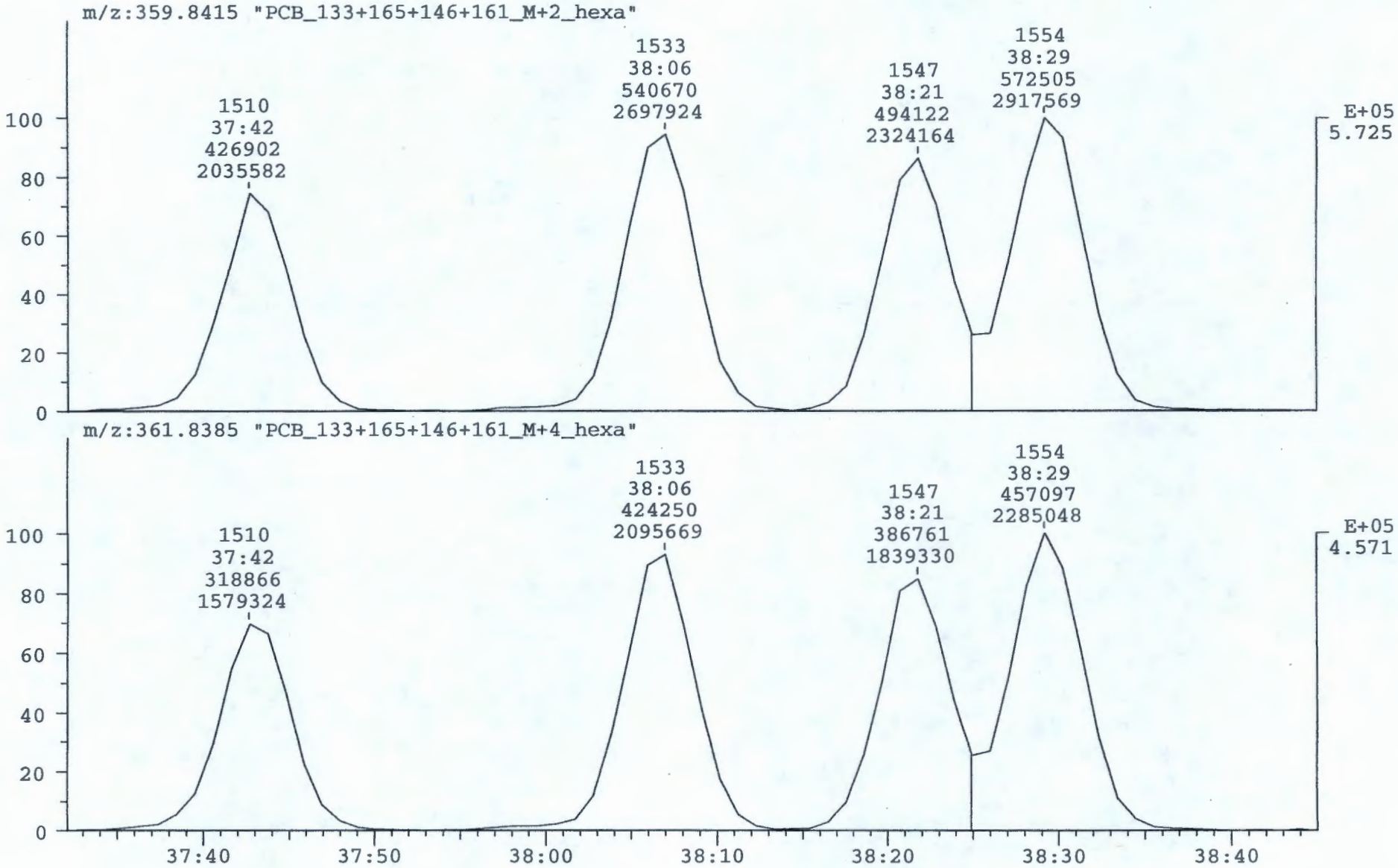

```
CHRO:  a080625ss                                25-Jun-08  Elapse:  39:09      1592
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1567 > 1617          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2               Label :  -3, 3.0
Disp:  Height  Area
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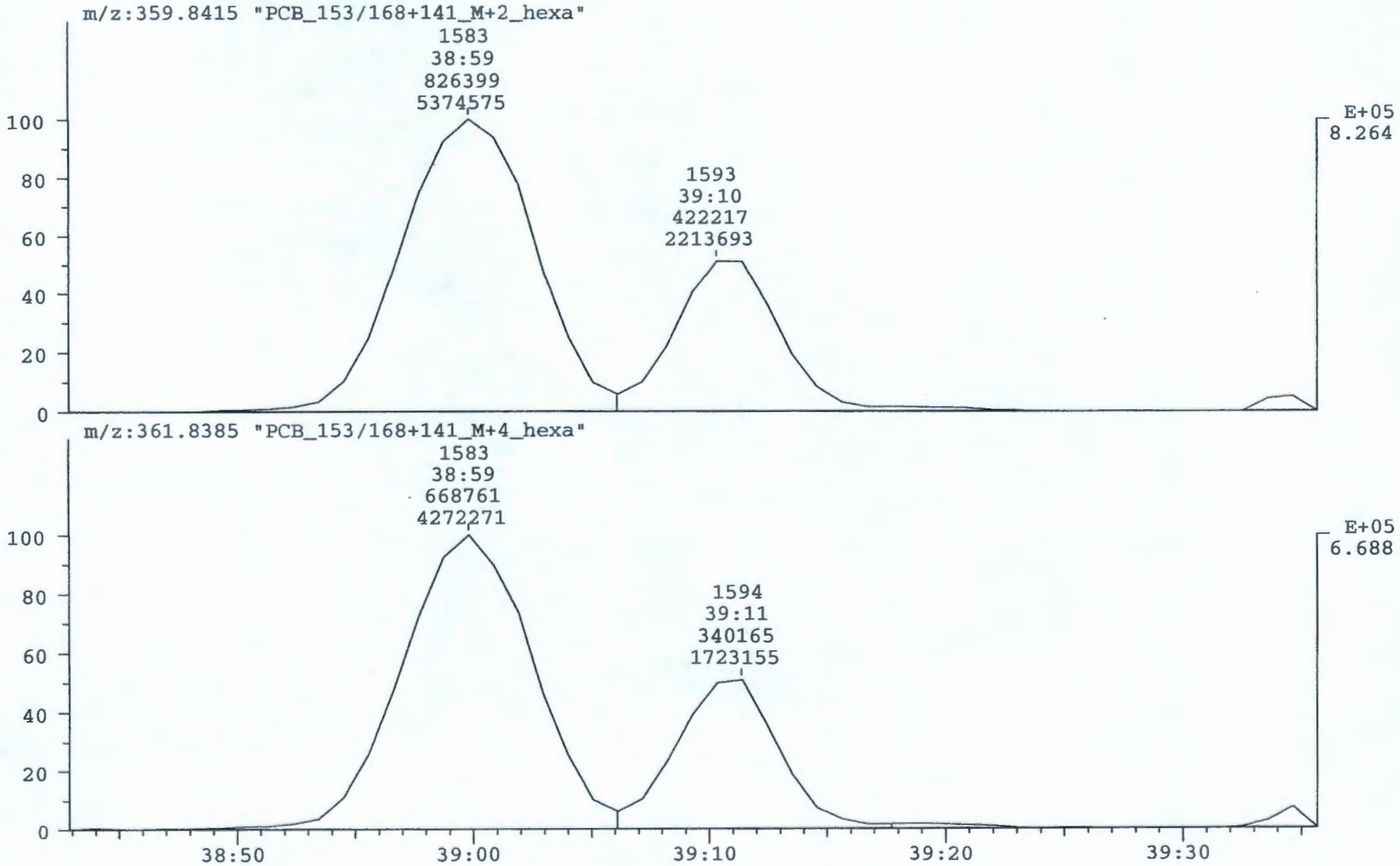

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CHRO:  a080625ss                                25-Jun-08   Elapse:  39:50      1631
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                    Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1606 > 1653           Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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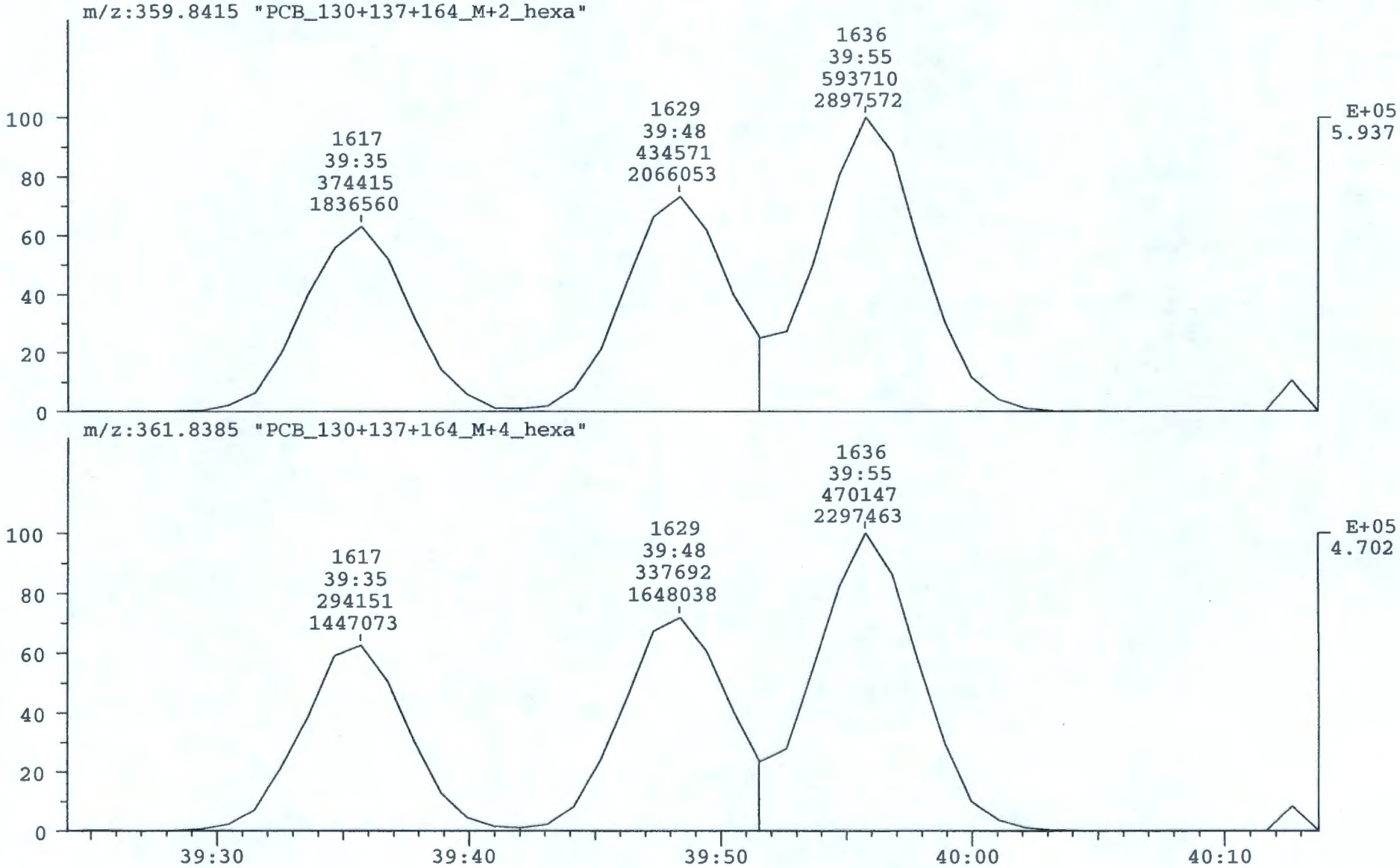

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CHRO:  a080625ss                                25-Jun-08  Elapse:  40:30      1669
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1644 > 1691          Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 7               Label :  -3, 3.0
Disp:  Height  Area
```
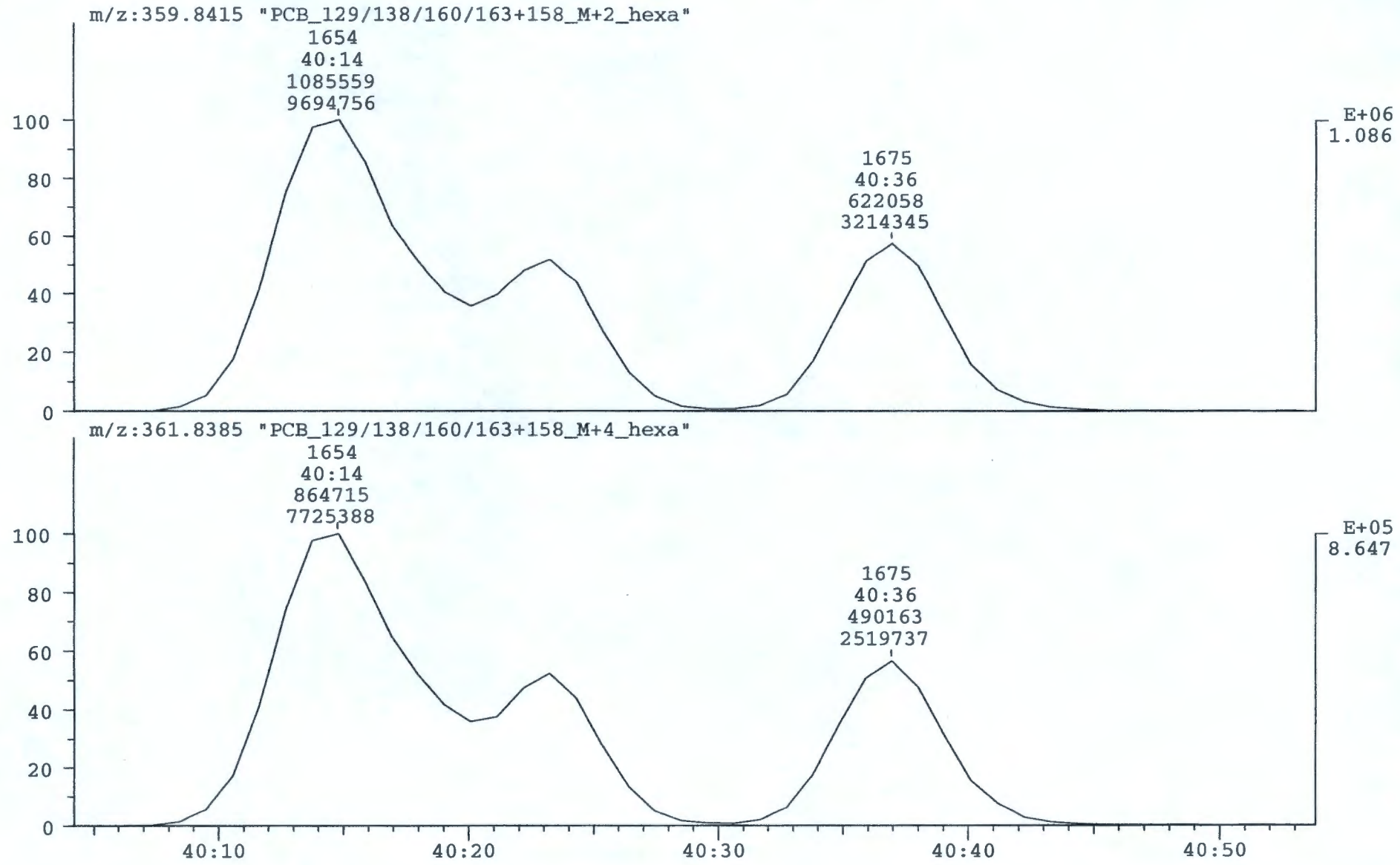
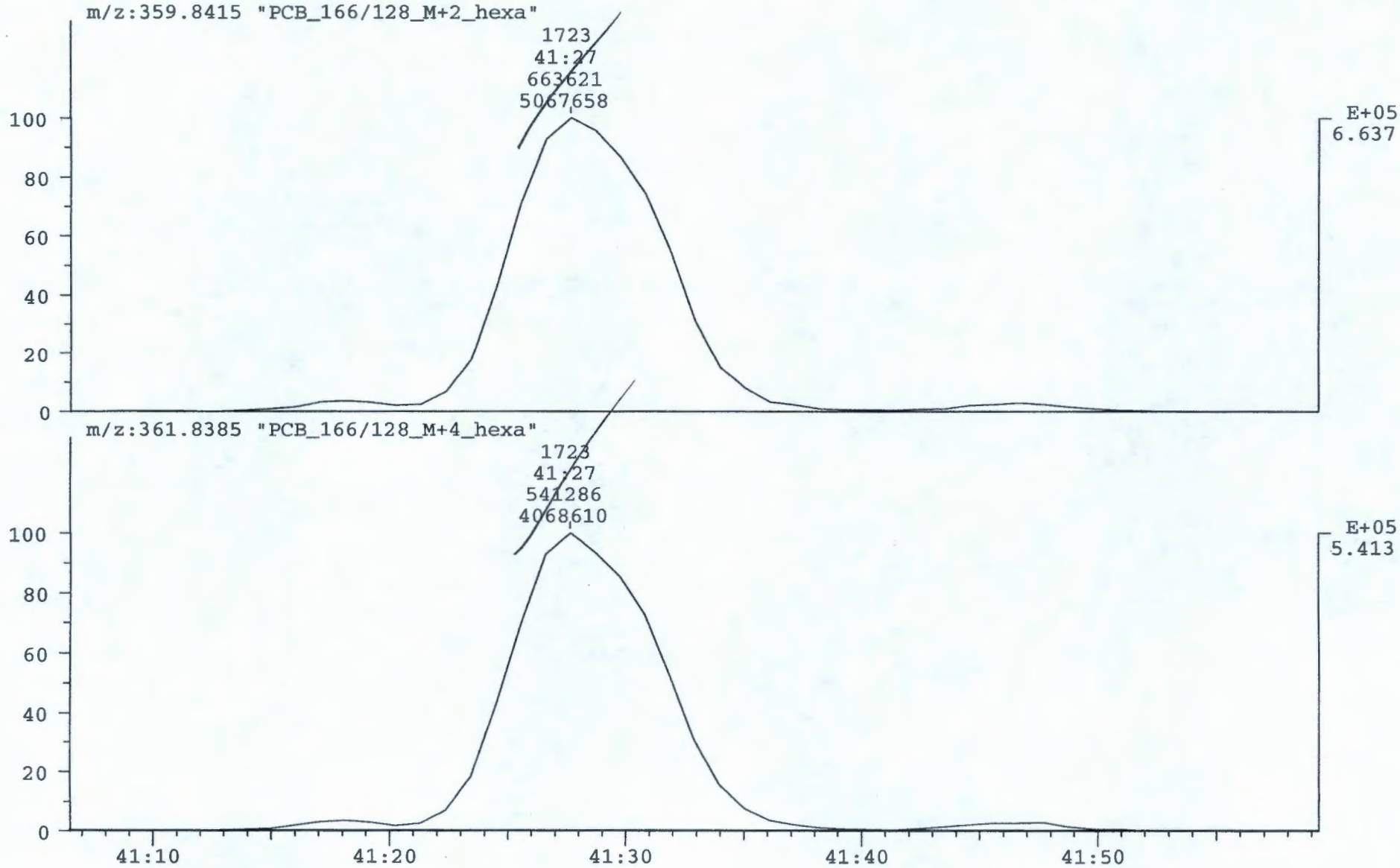



```
CHRO:  a080625ss                                25-Jun-08  Elapse:  41:32      1728
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1703 > 1753          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a080625ss                                25-Jun-08  Elapse:  11:00.7        1
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46    2603
Comm:  Inst=mld/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC      Vial  15
Peak:  100.00  ppm      Label wndw:   1703 > 1753          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2               Label :  -3, 3.0
Disp:  Height  Area
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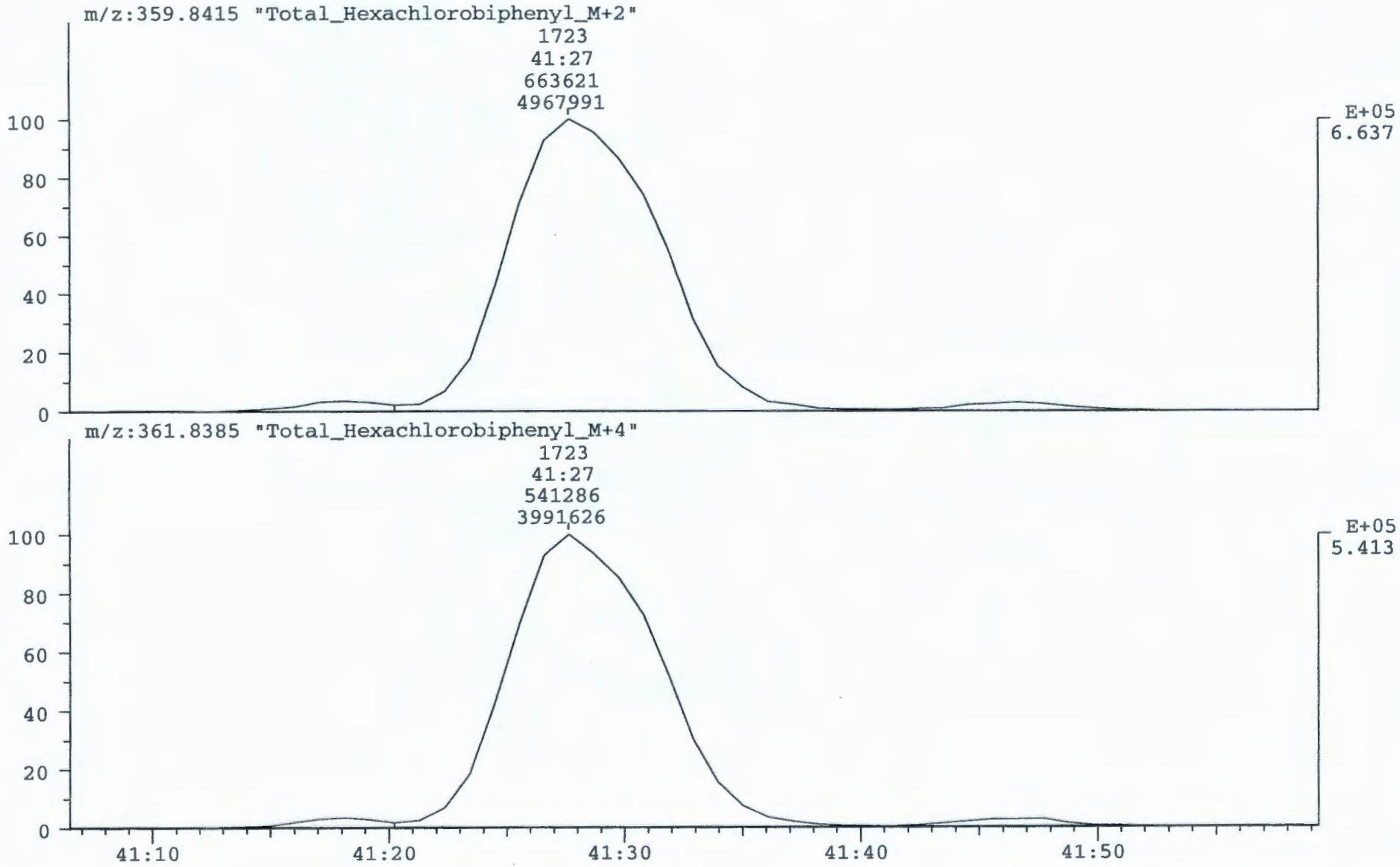

```
CHRO:  a080625ss                                25-Jun-08  Elapse:  42:54      1805
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=mld/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1765 > 1842          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1               Label :  -3, 3.0
Disp:  Height  Area
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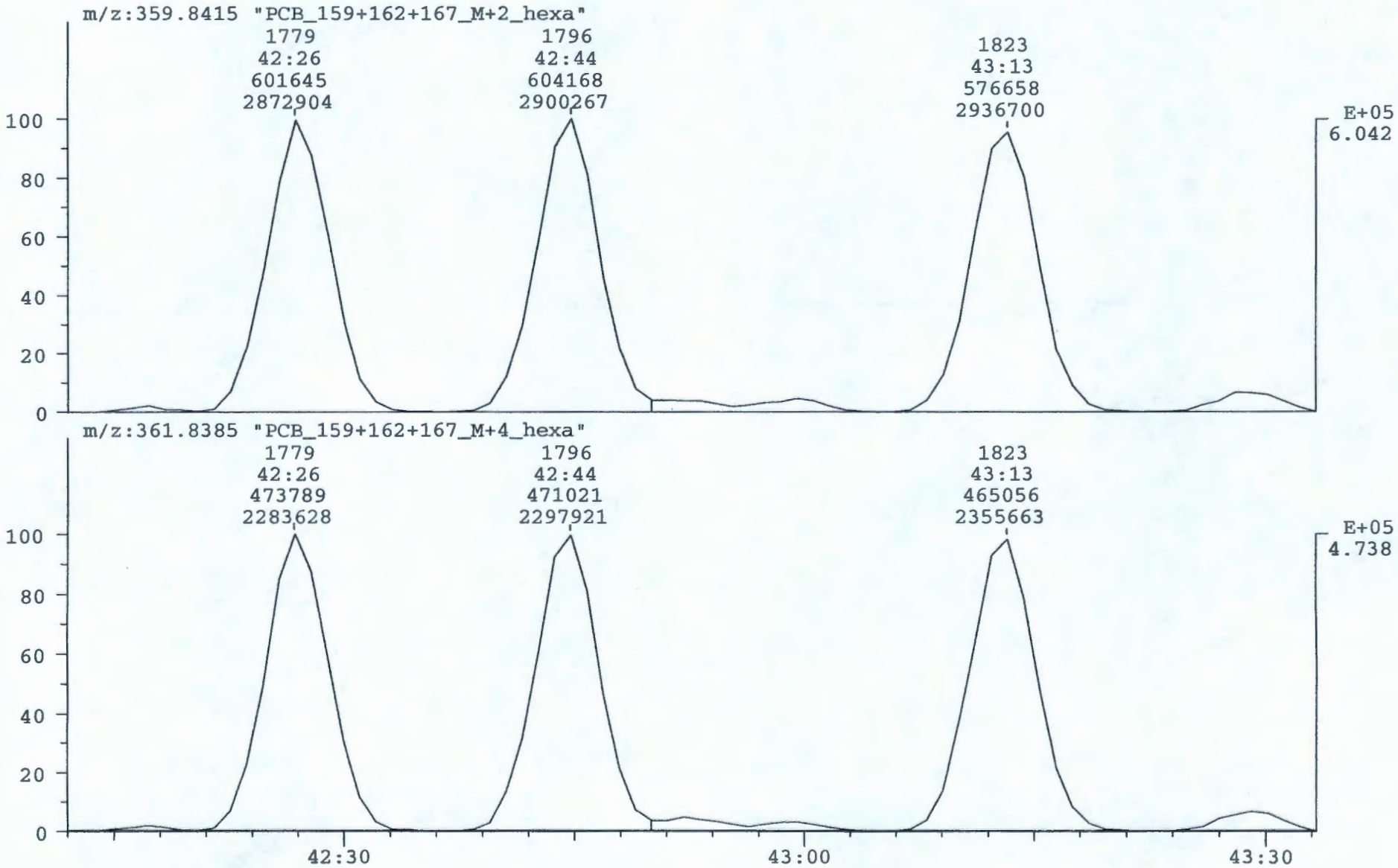

```
CHRO:  a080625ss                              25-Jun-08   Elapse:  44:22      1889
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                  Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1874 > 1910         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 4              Label :  -3, 3.0
Disp:  Height  Area
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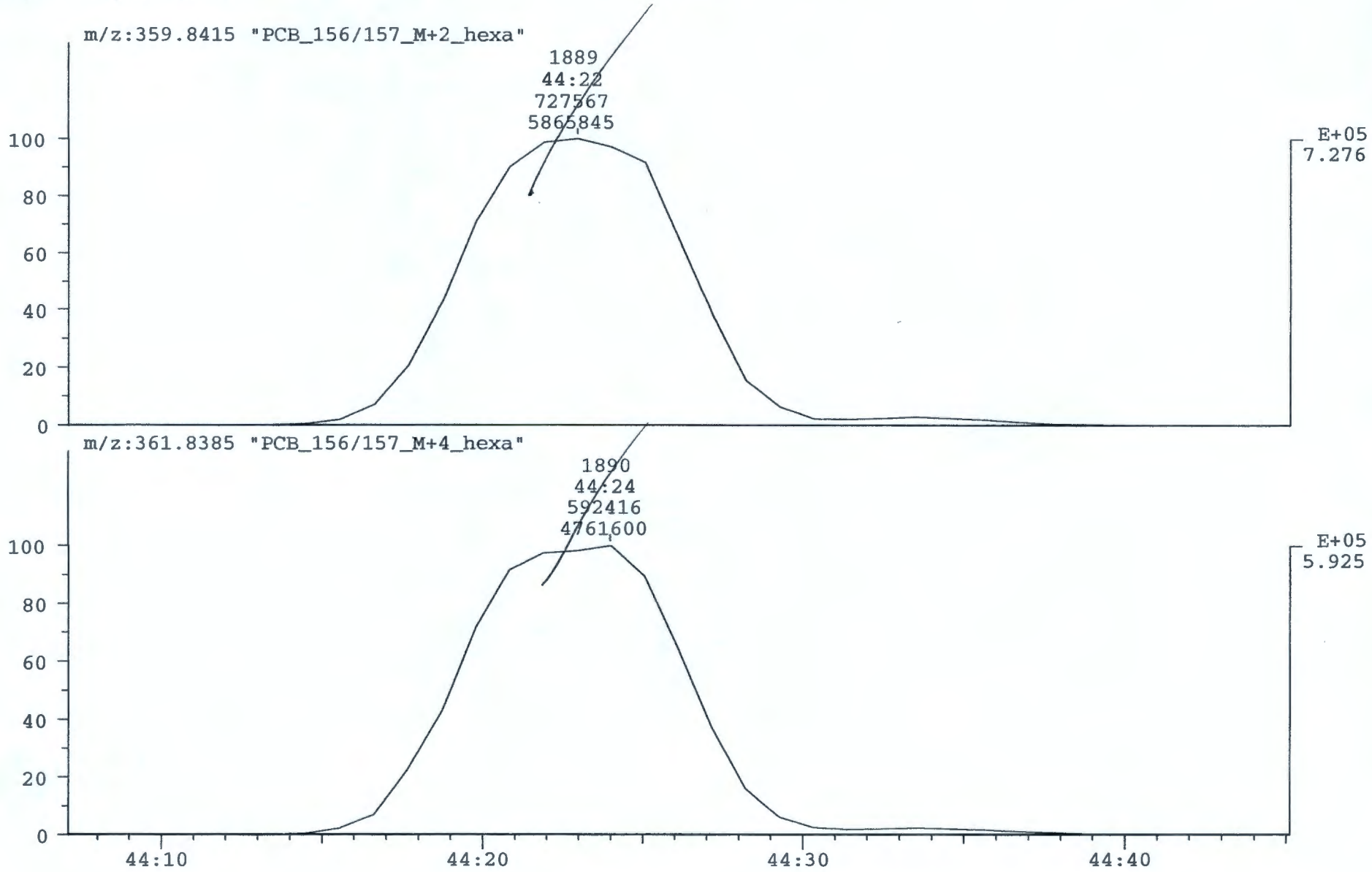
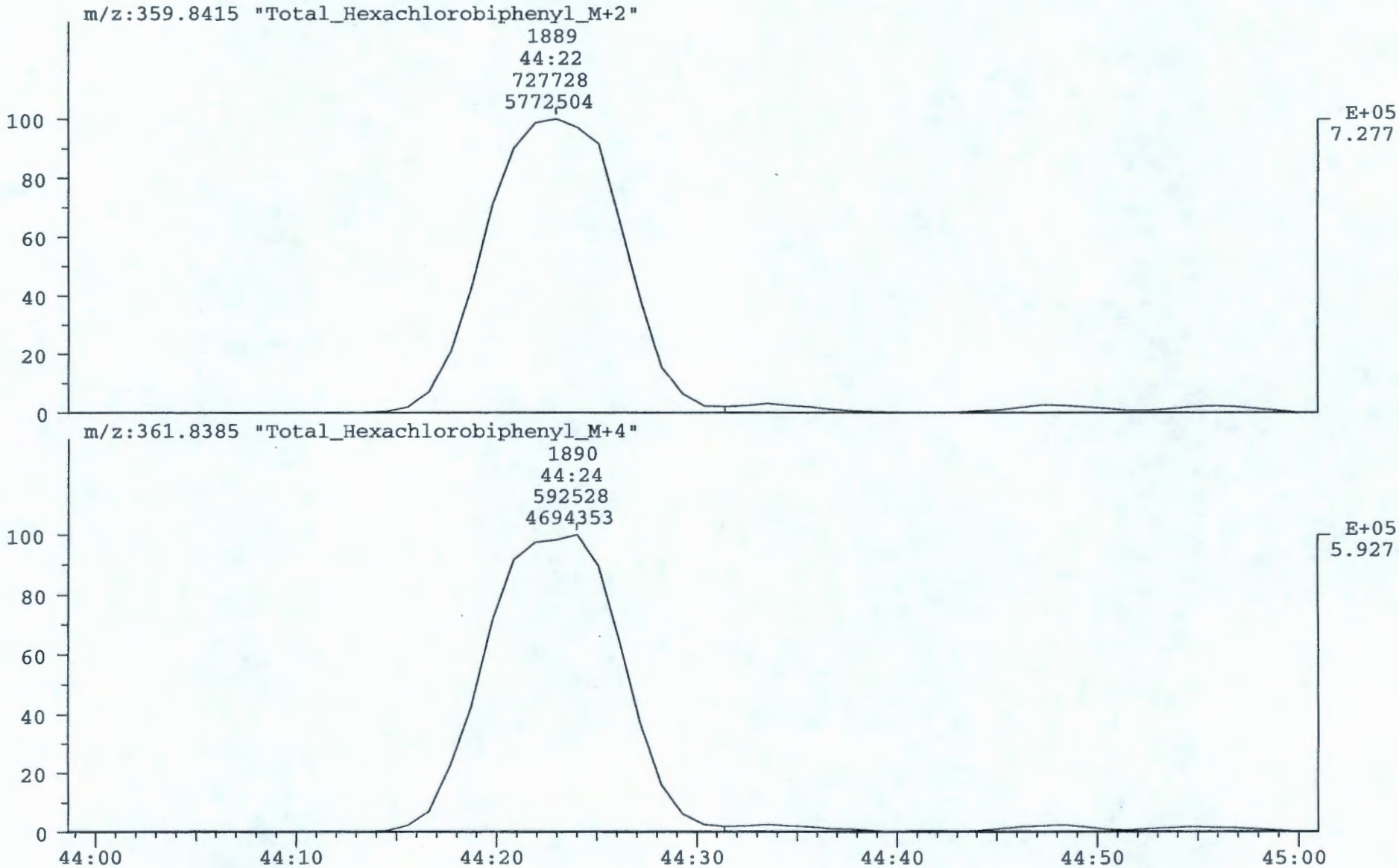
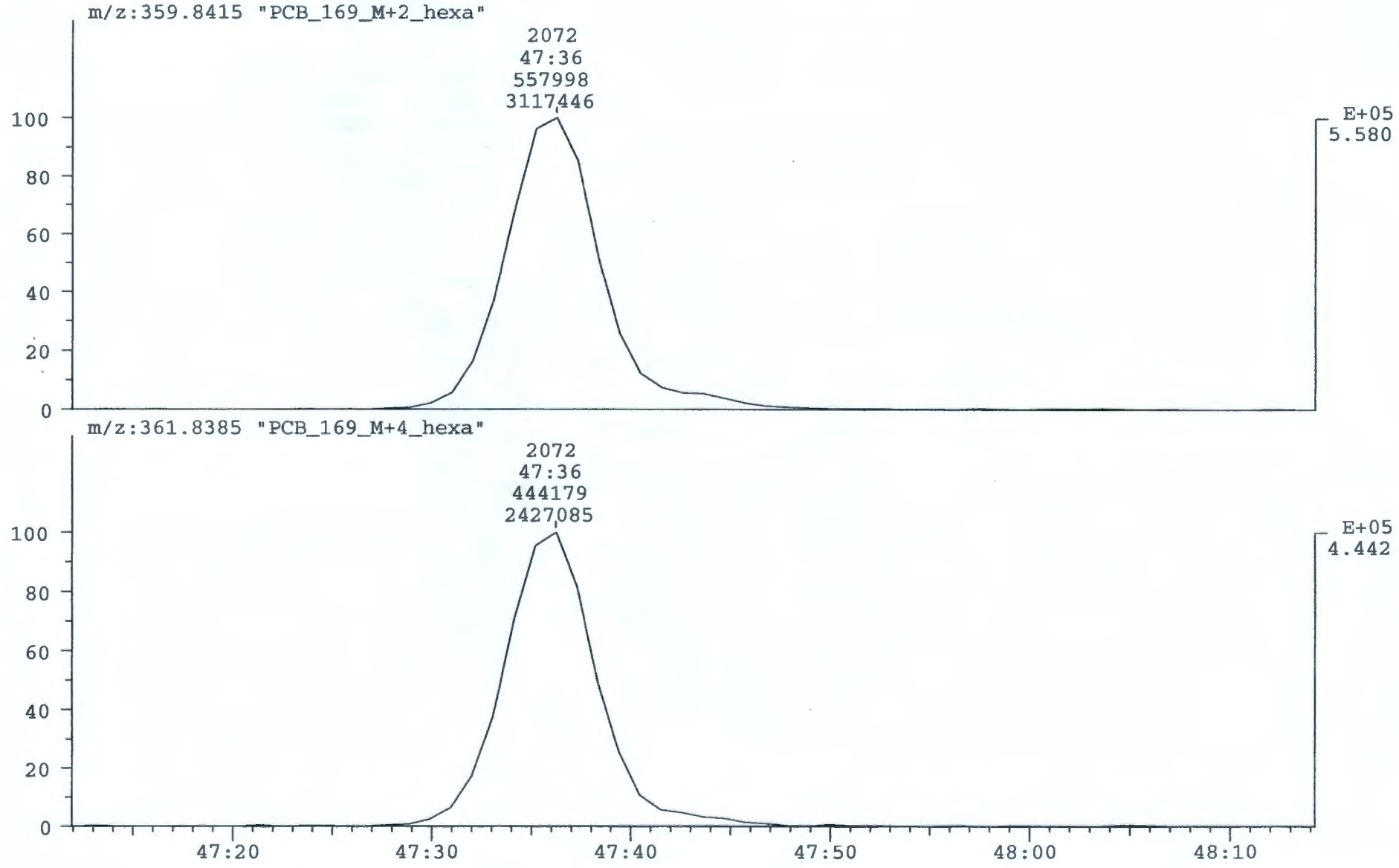


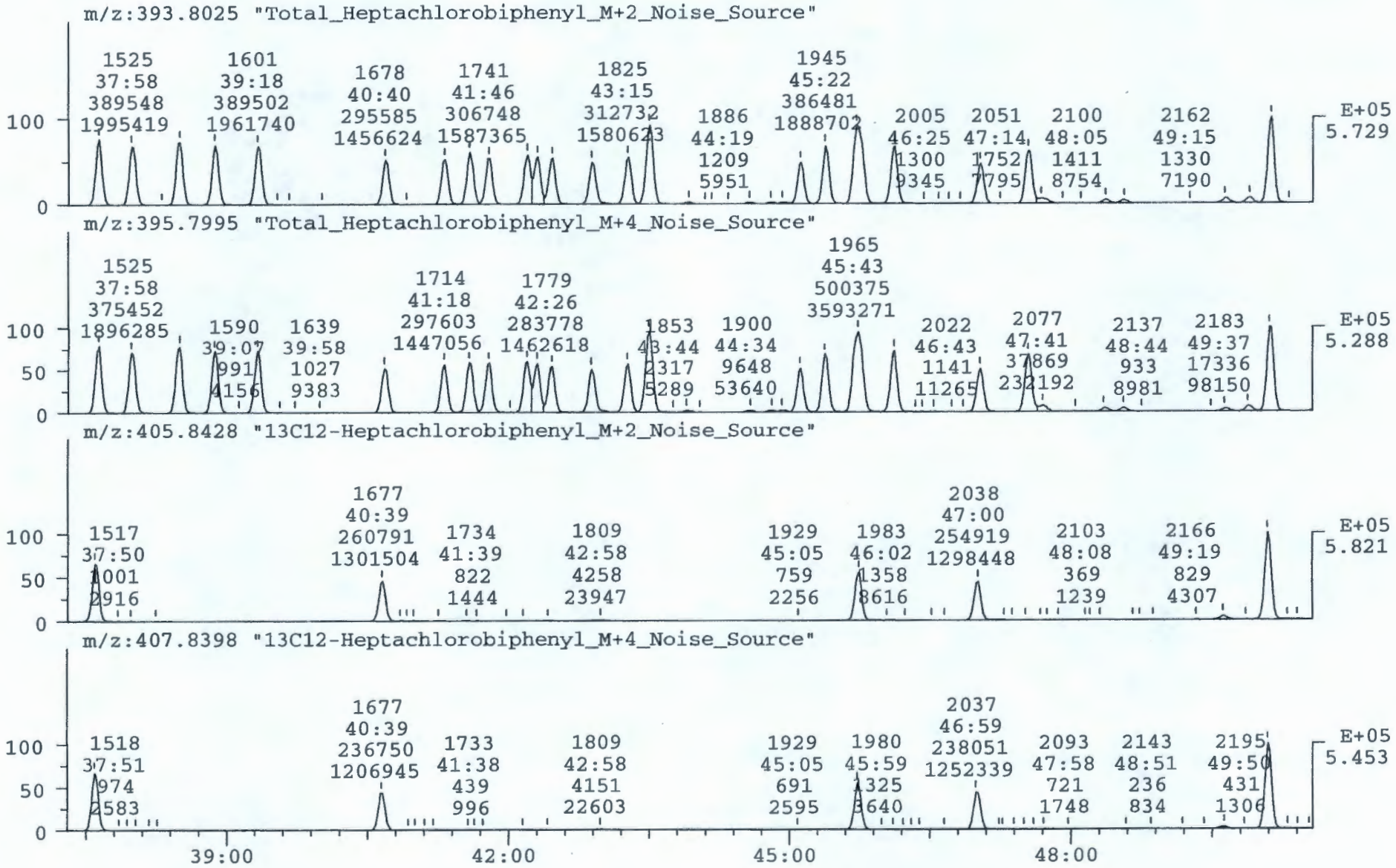
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  11:00.7        1
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46    2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1866 > 1925          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2               Label :  -3, 3.0
Disp:  Height  Area
```



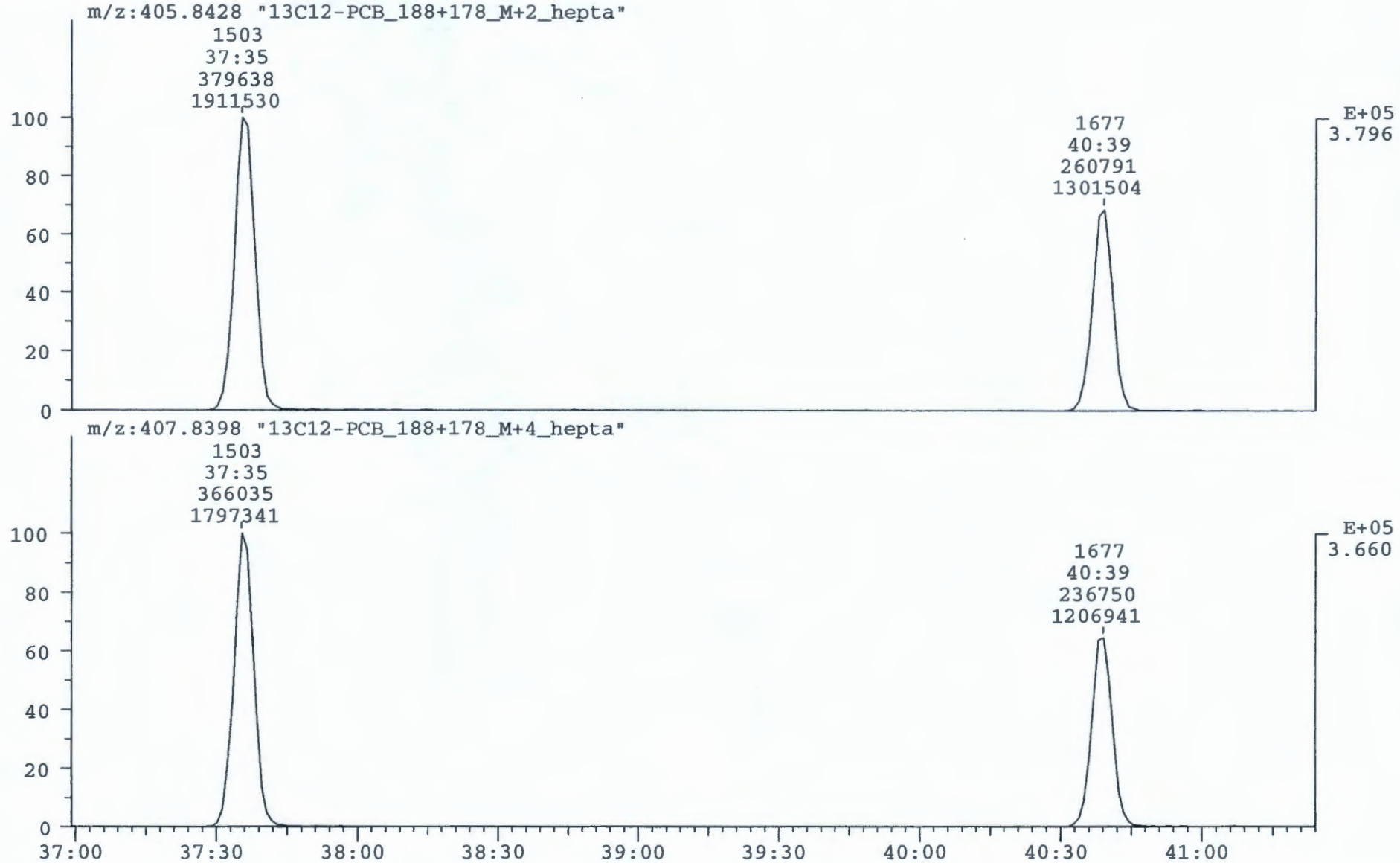
```
CHRO:  a080625ss                              25-Jun-08   Elapse:  47:38      2074
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                  Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   2049 > 2108         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



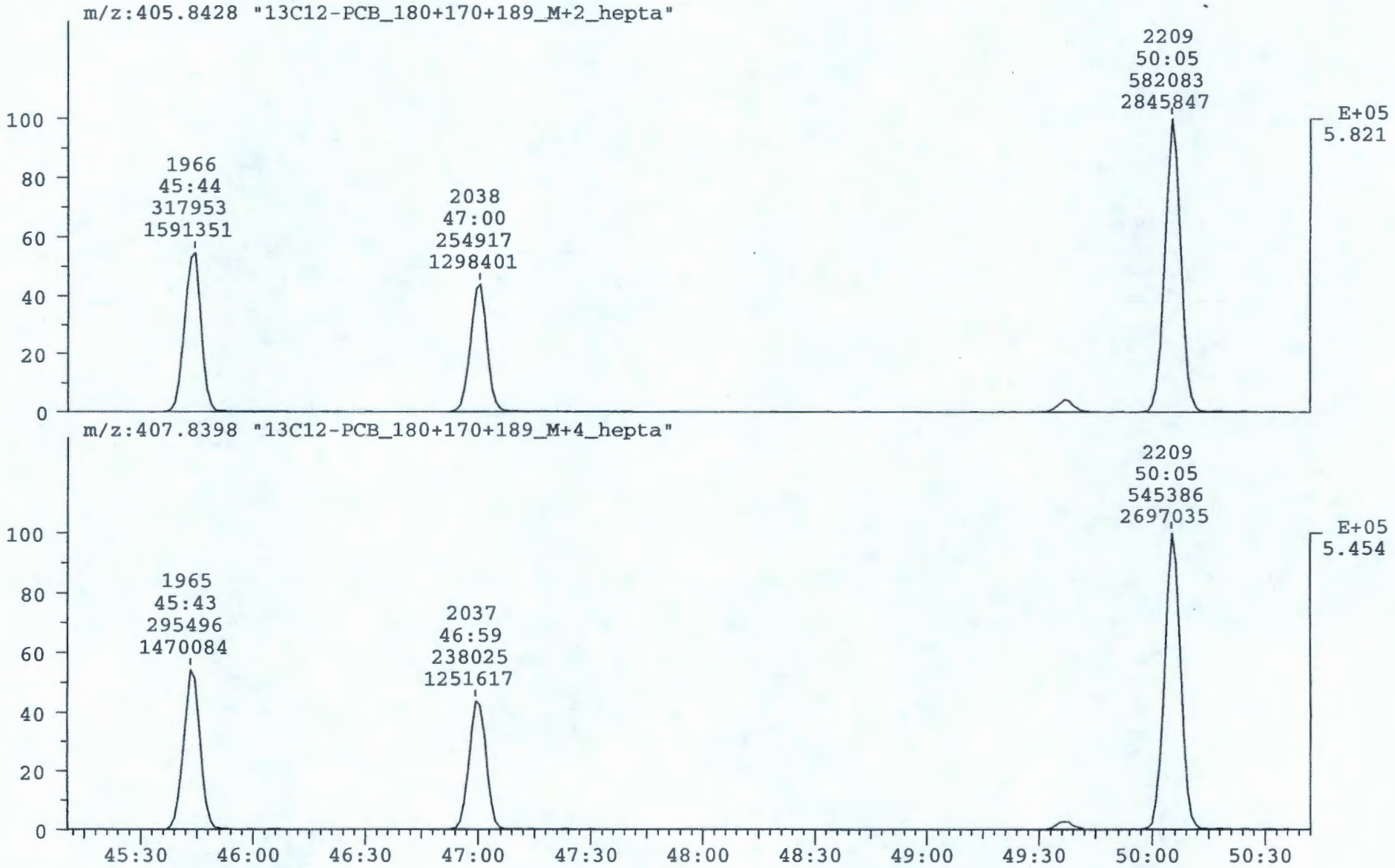
CHRO: a080625ss 25-Jun-08 Elapse: 43:56 1864
Samp: Vial 15 WO=2990:74 Meth=IE3 Dil=1 Start : 11:18:46 2603
Comm: Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 ICAL SS
Oper: DCG Client: TA Knoxville Inlet : GC Vial 15
Peak: 100.00 ppm Label wndw: 1487 > 2236 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



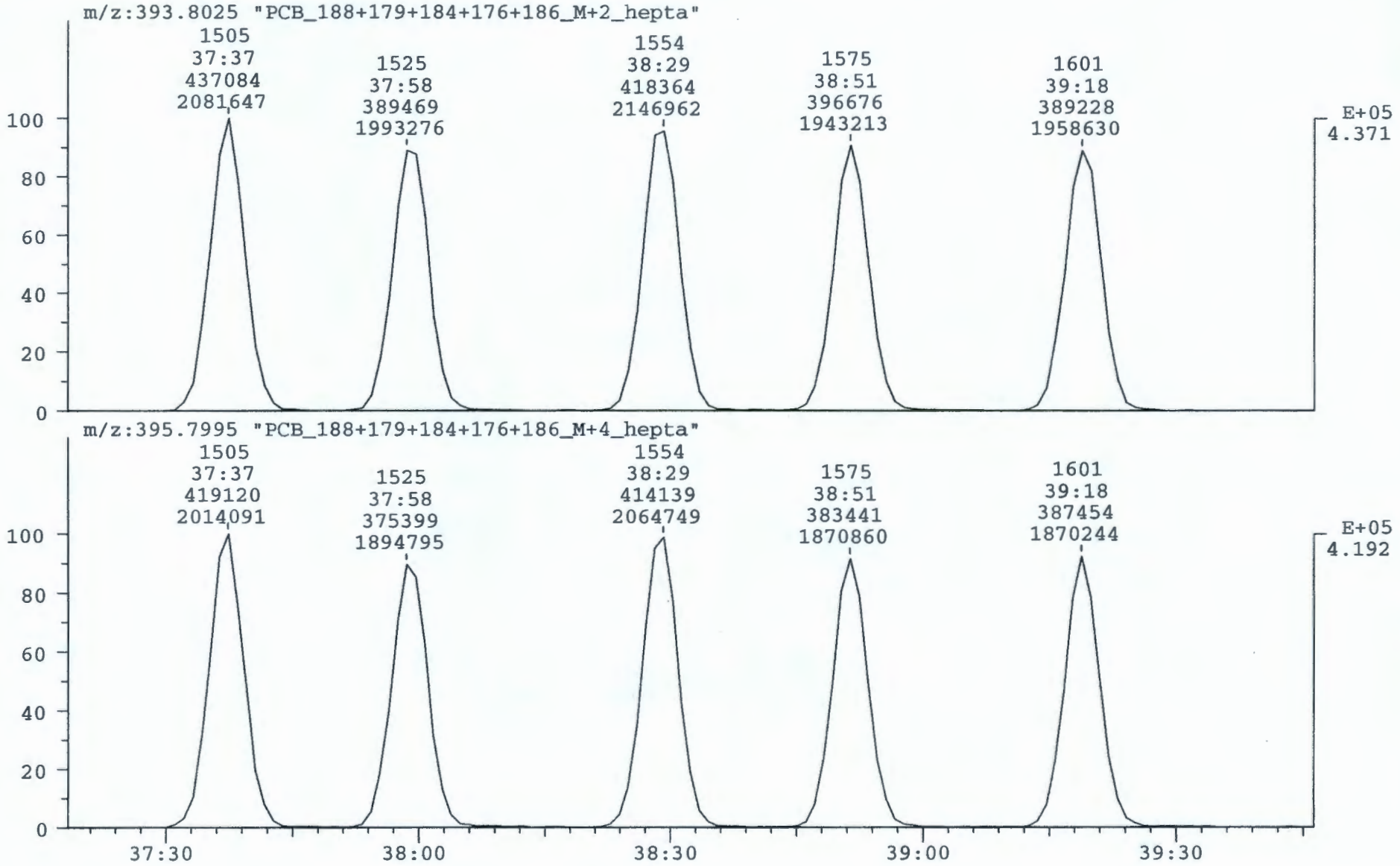
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  39:11      1594
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1469 > 1720          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



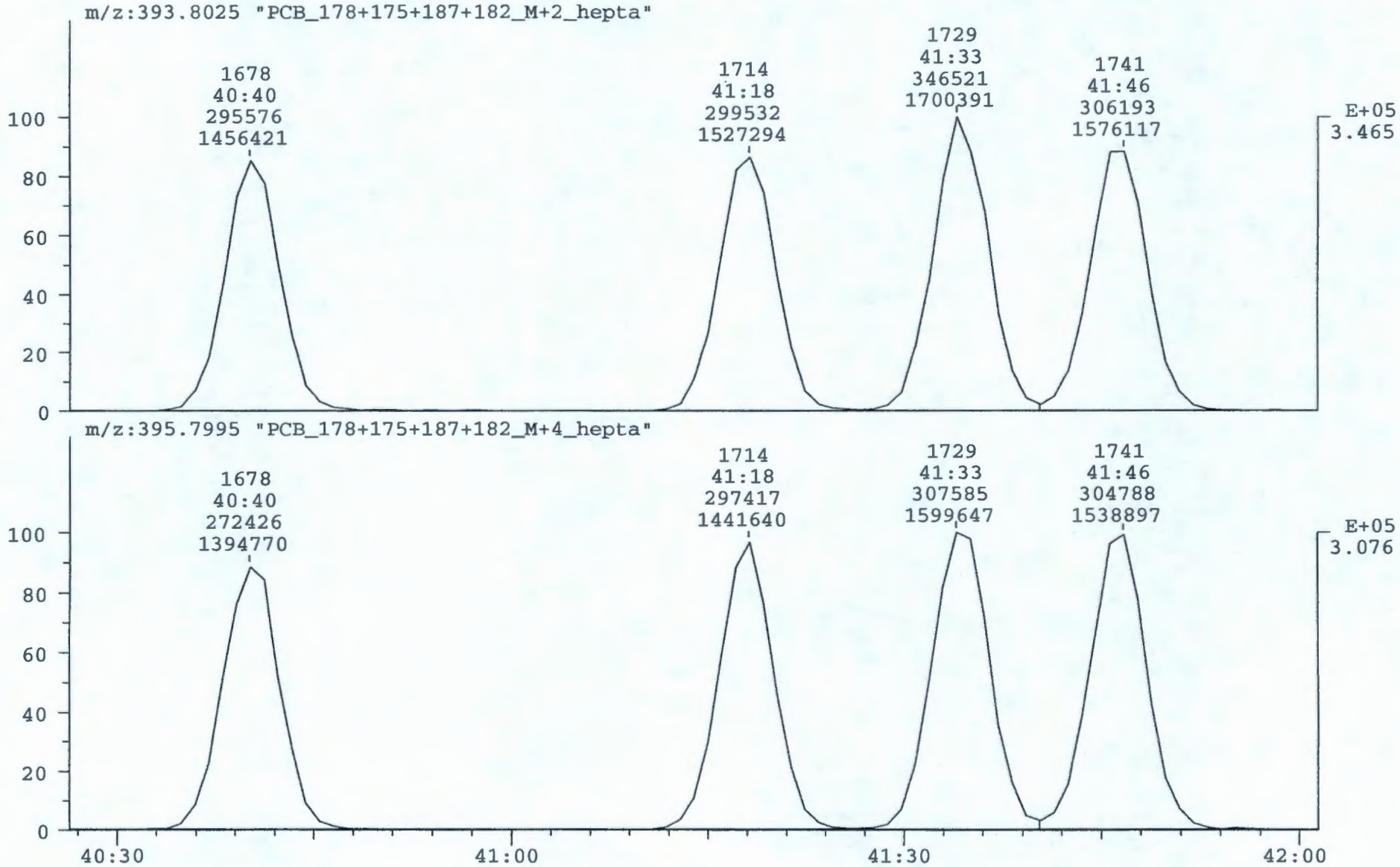
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  47:59      2094
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1934 > 2244          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



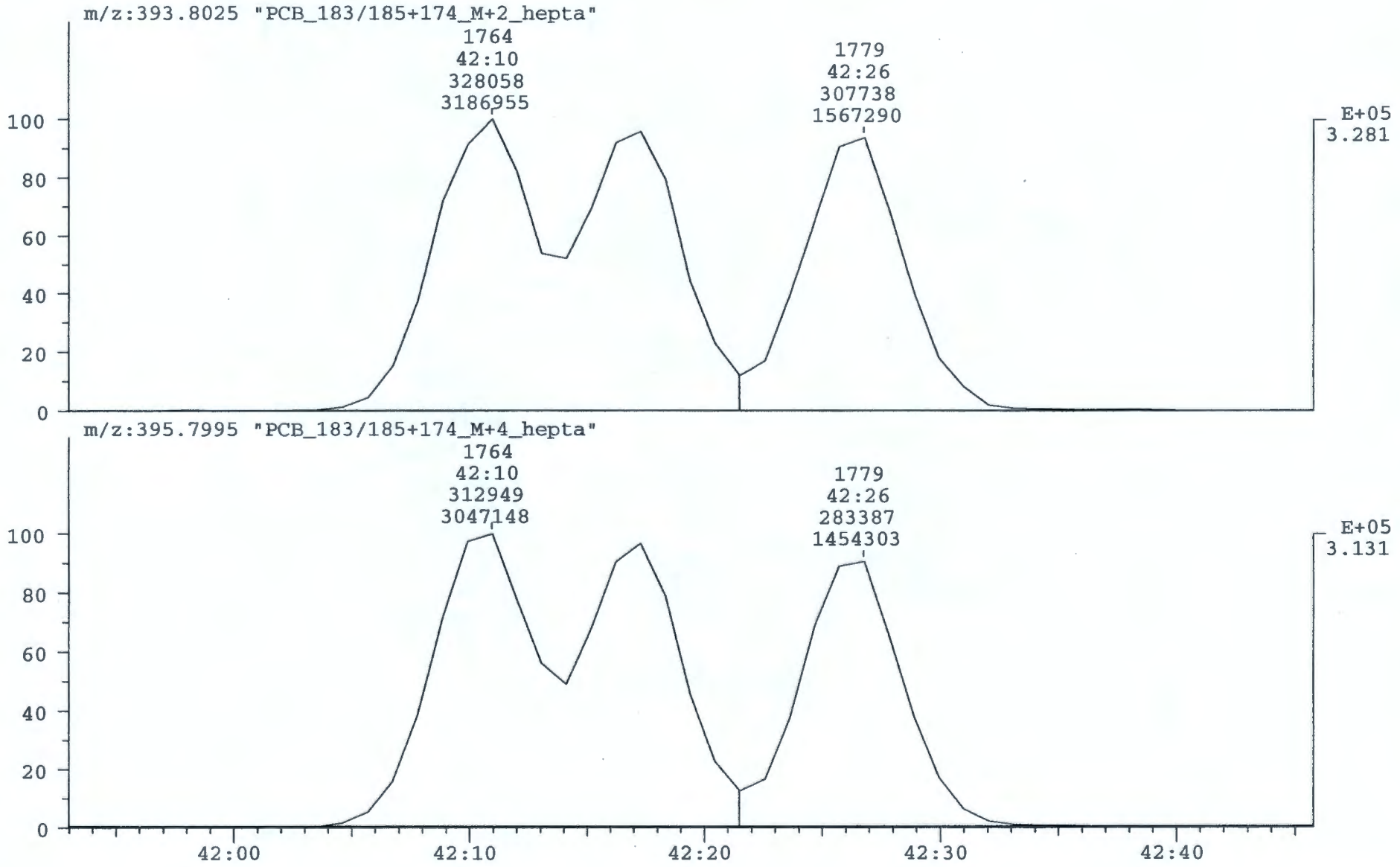
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  38:32      1557
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1487 > 1627          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



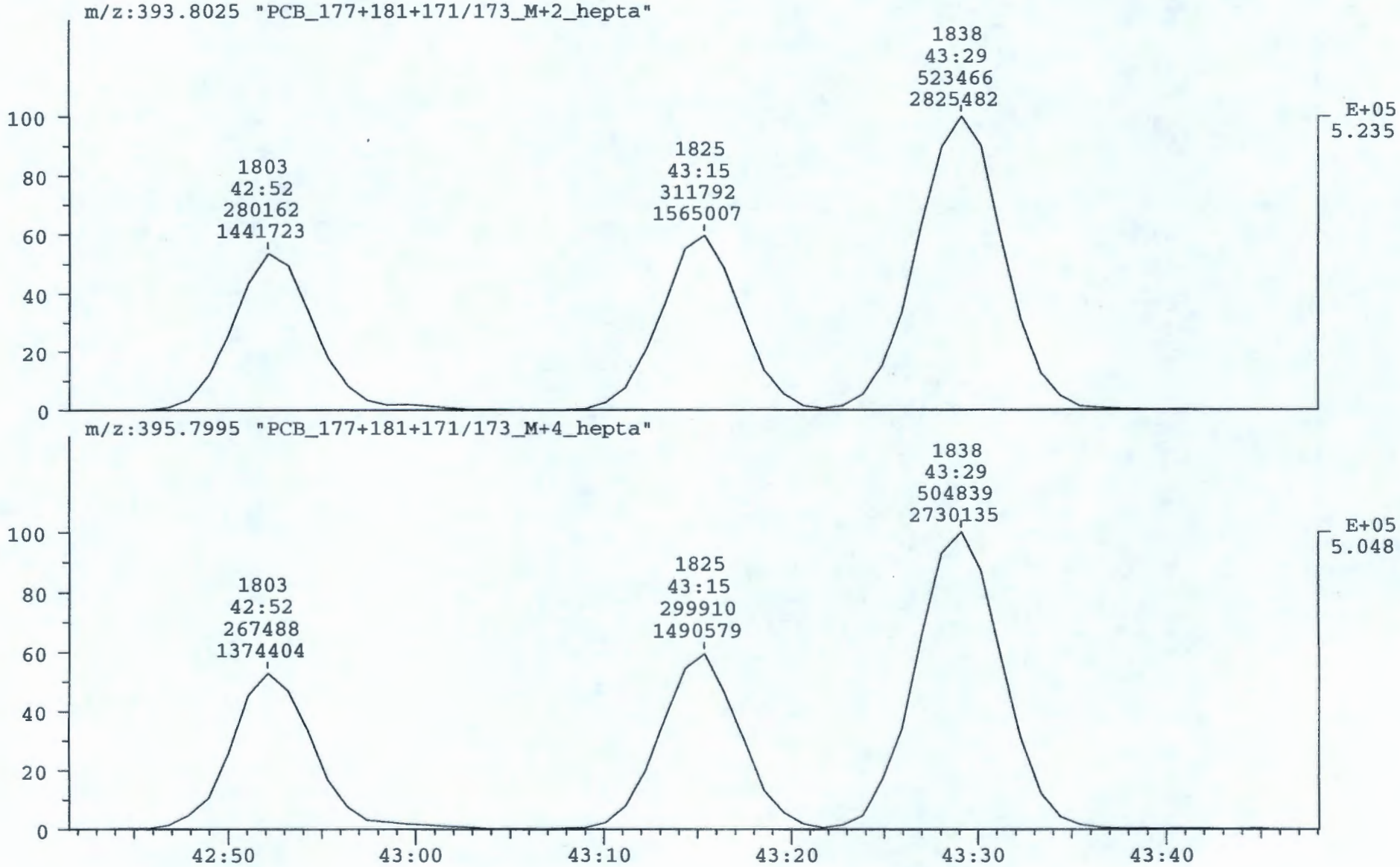
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  41:19      1715
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  15
Peak:  100.00  ppm     Label wndw:   1665 > 1755           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



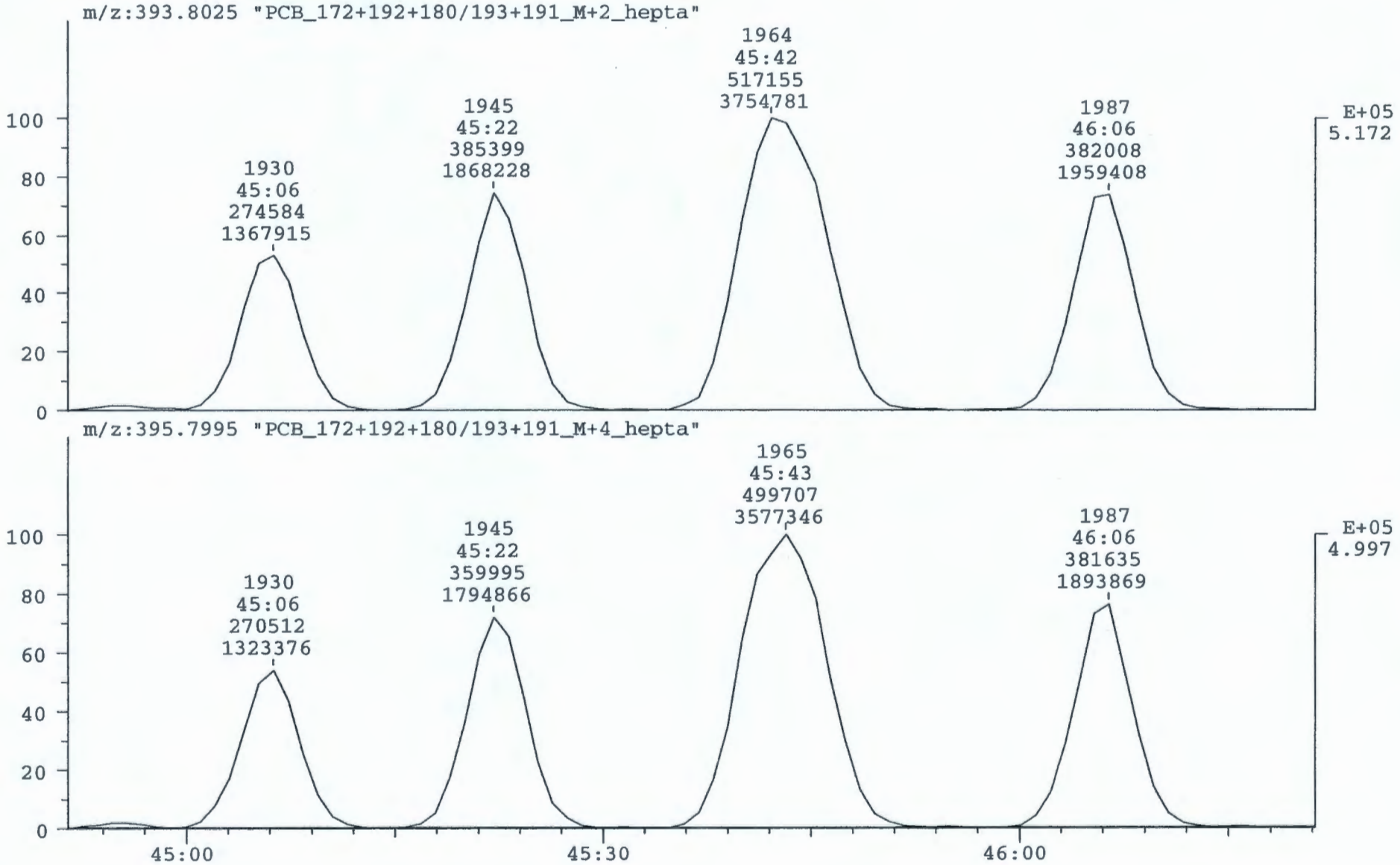
```
CHRO:  a080625ss                              25-Jun-08   Elapse:  42:26      1779
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                  Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1747 > 1797         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 7              Label :  -3, 3.0
Disp:  Height  Area
```



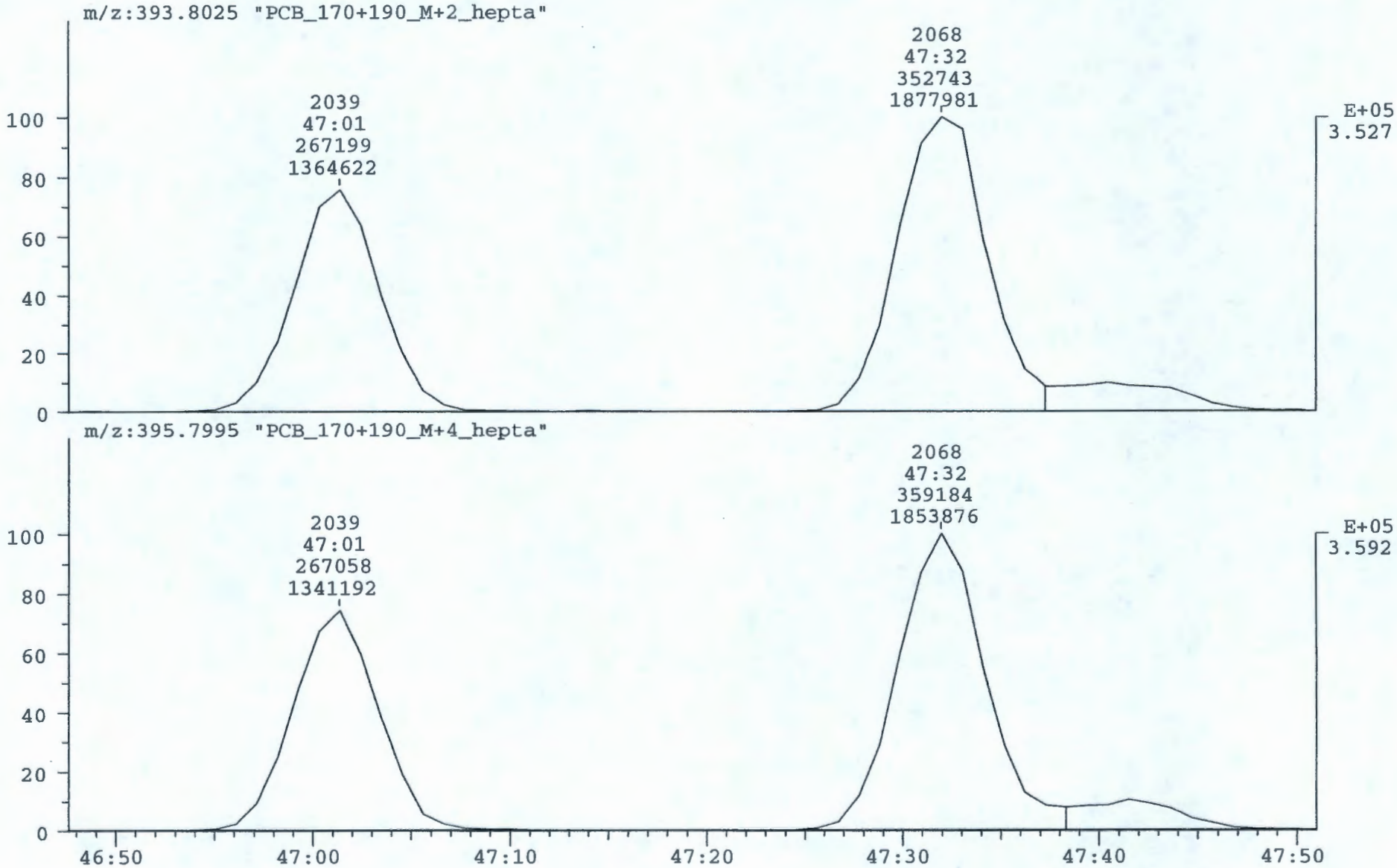
```
CHRO:  a080625ss                                25-Jun-08   Elapse:  43:16      1826
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                    Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1793 > 1856           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



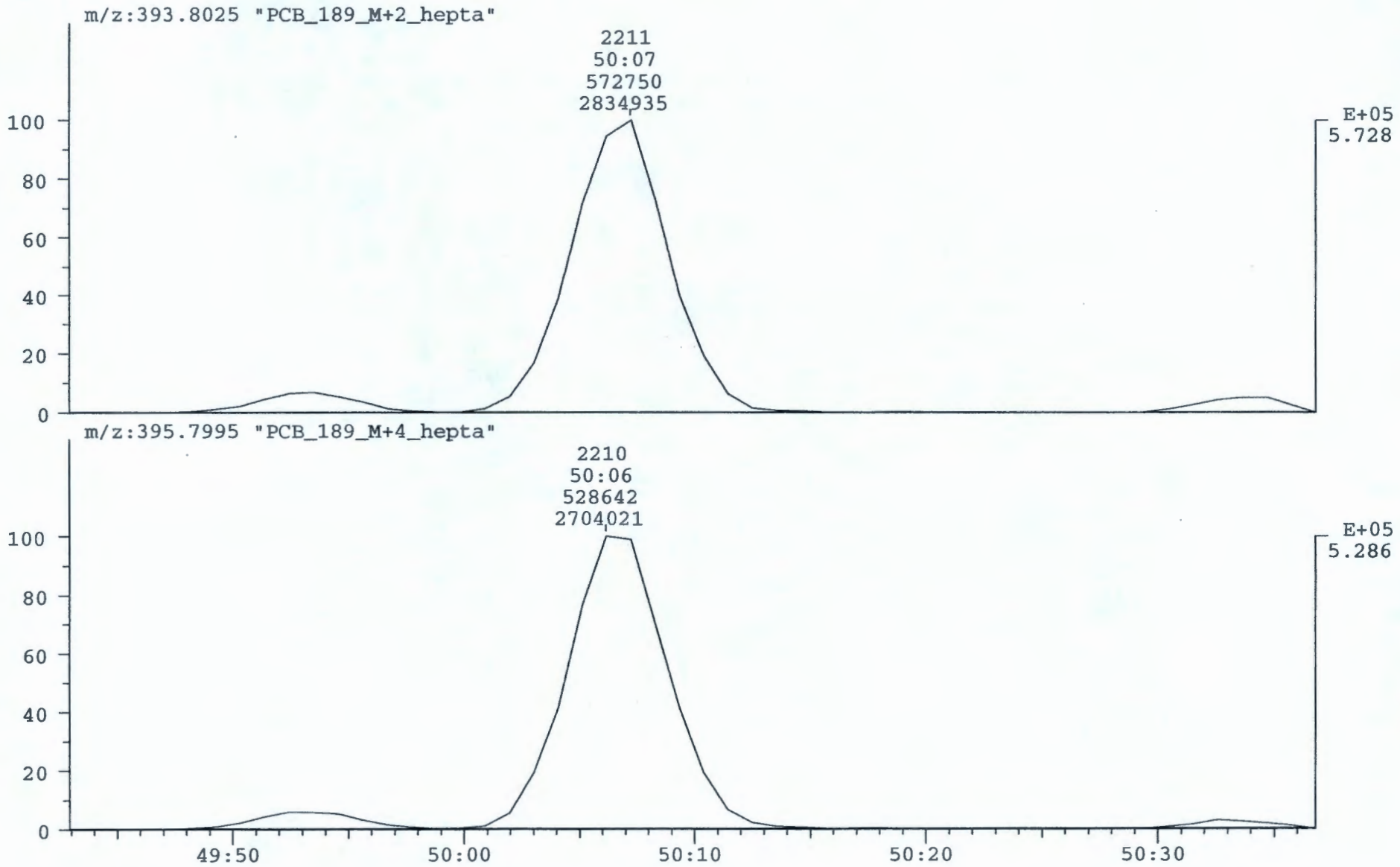
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  45:44      1966
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1916 > 2001          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



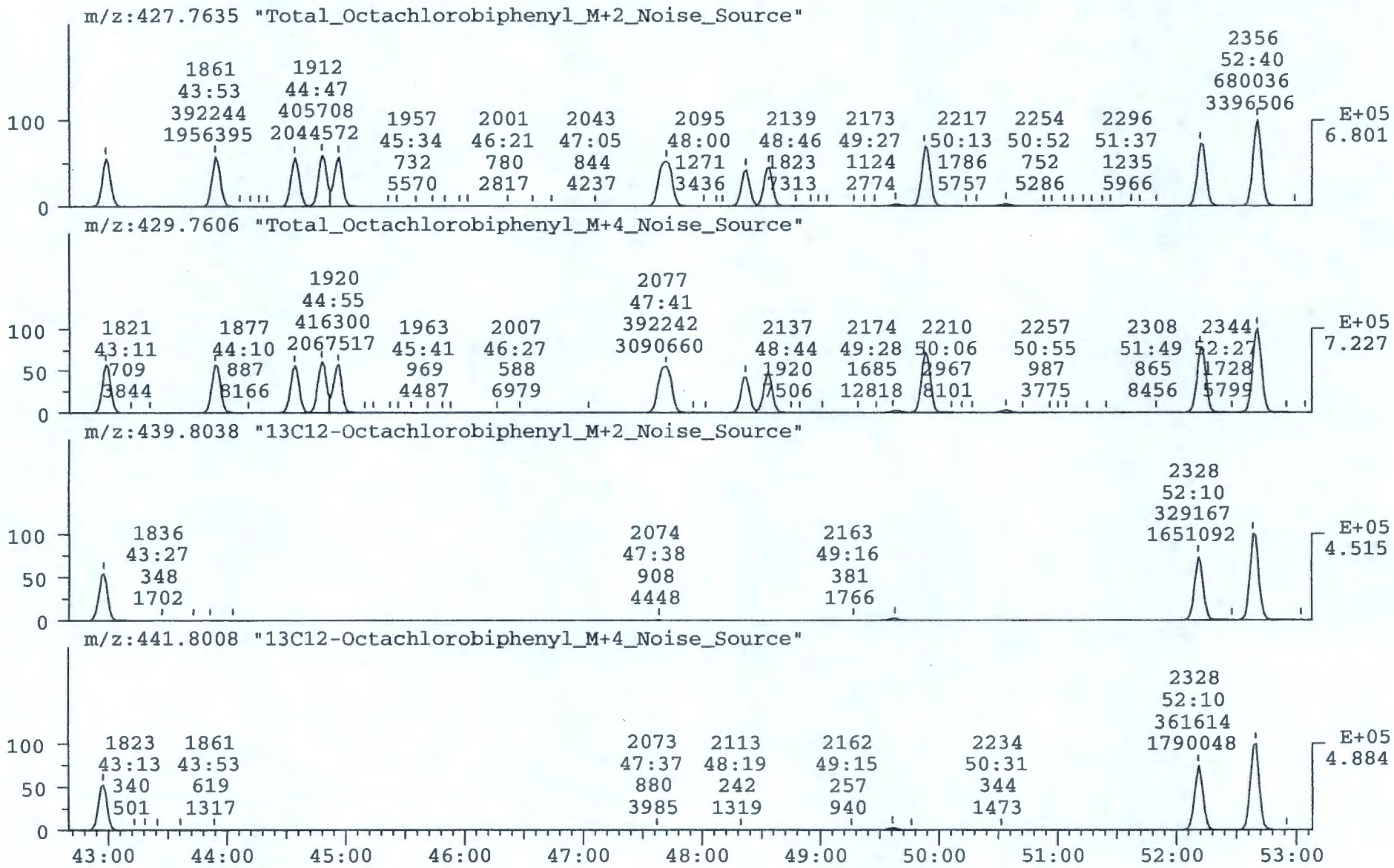
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  47:21      2058
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   2026 > 2086          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1               Label :  -3, 3.0
Disp:  Height  Area
```



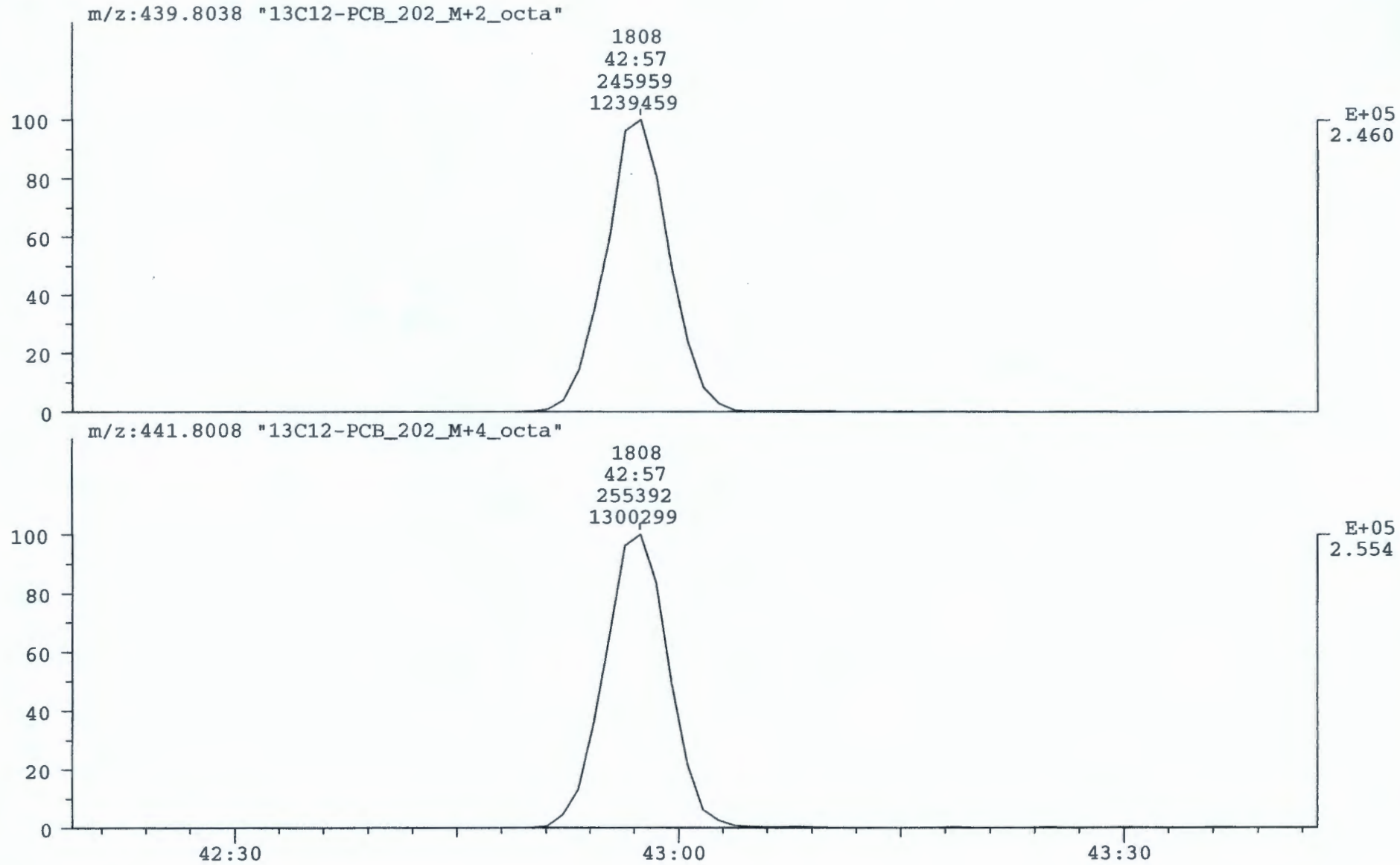
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  50:08      2212
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   2188 > 2239          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



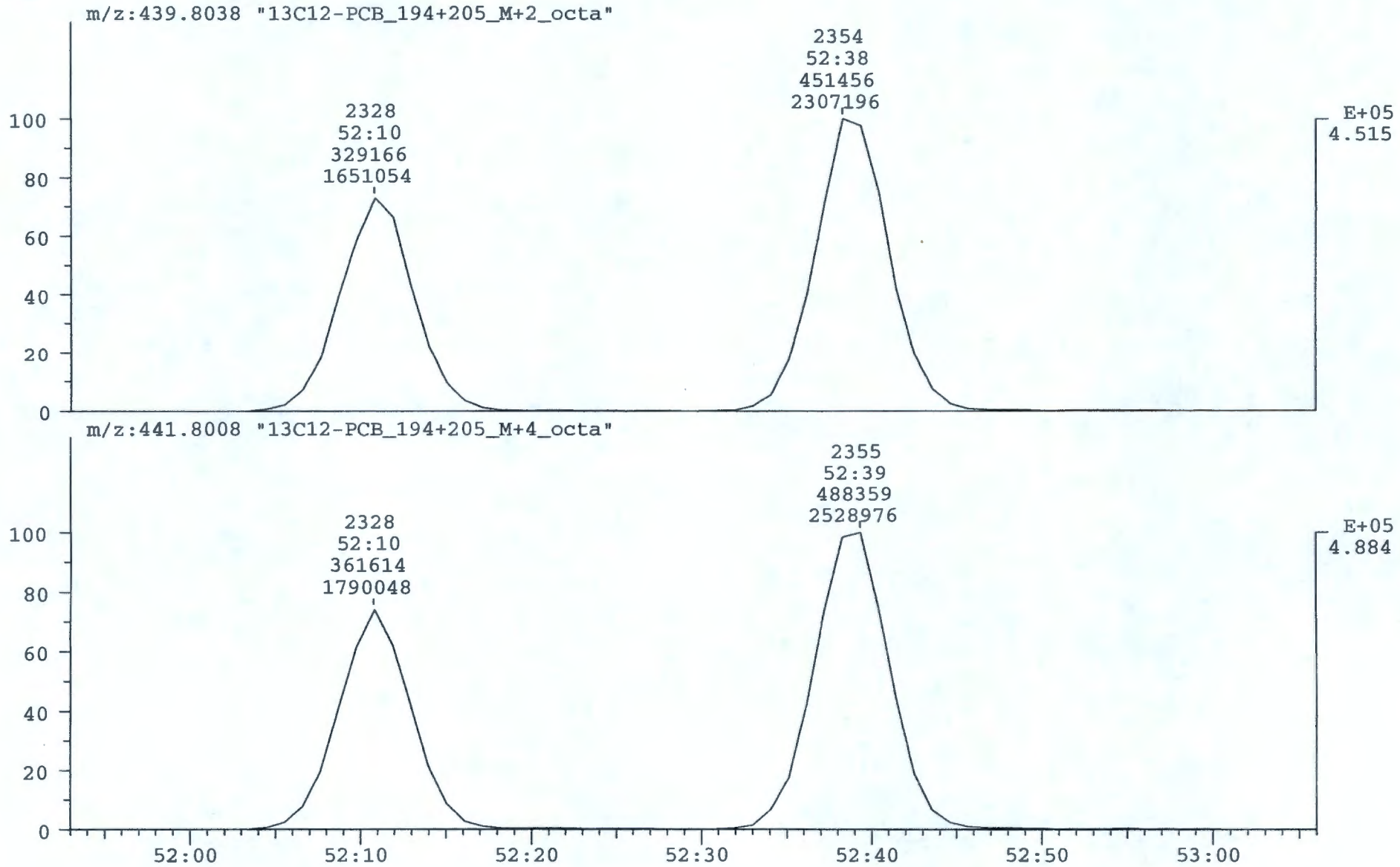
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  47:54      2089
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1792 > 2382          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



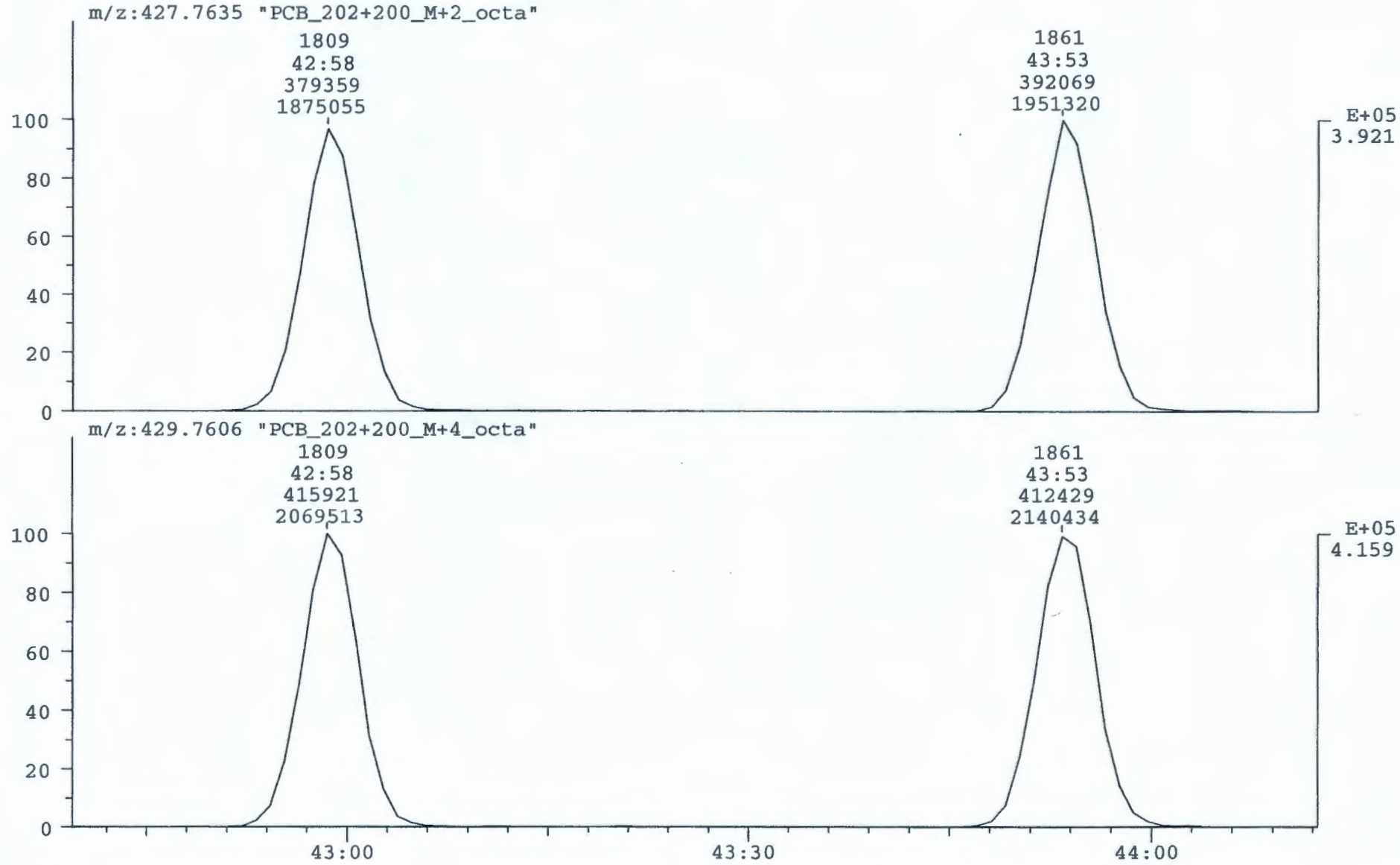
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  42:58      1809
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1772 > 1851          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



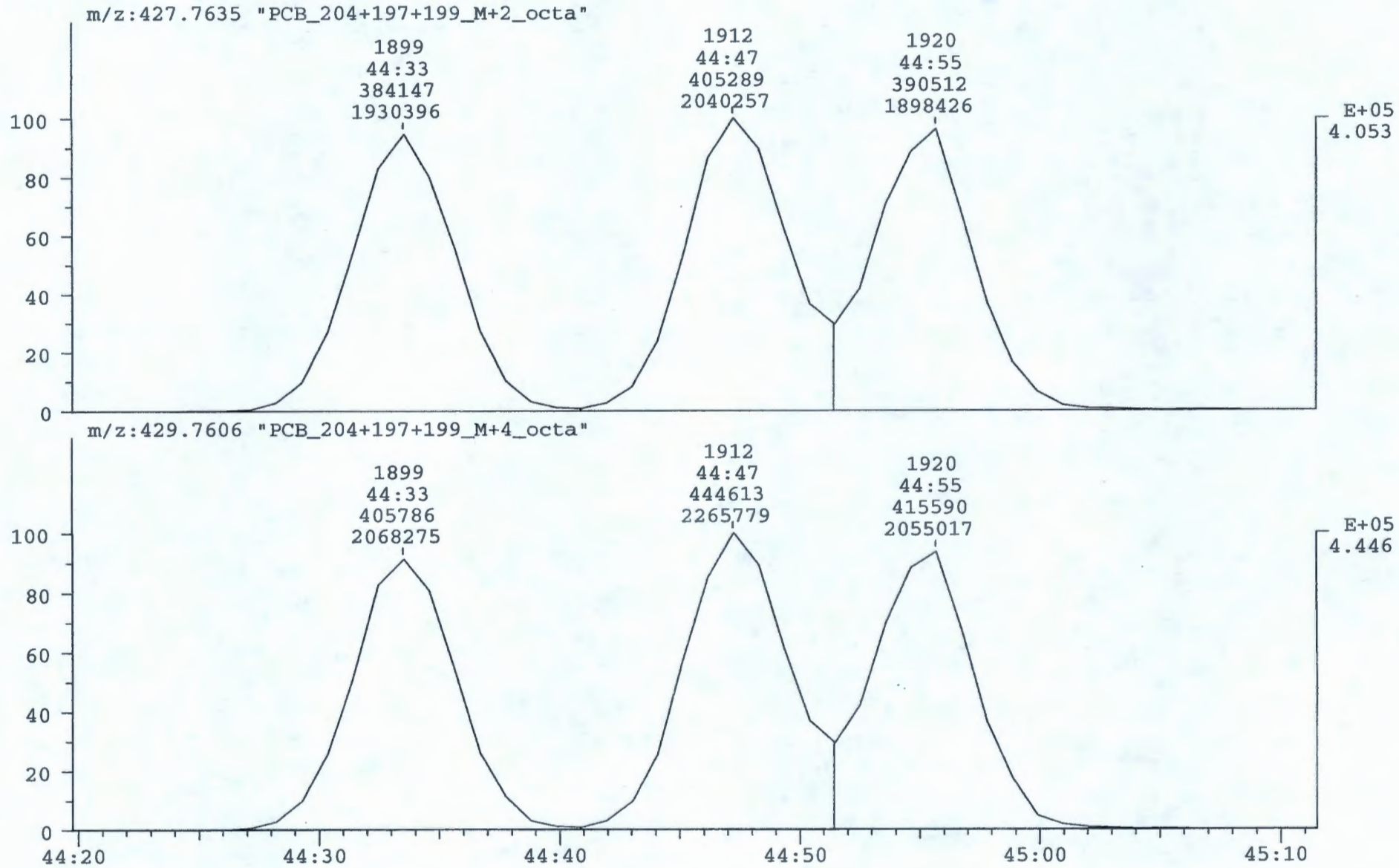
```
CHRO:  a080625ss                                25-Jun-08   Elapse:  52:28      2345
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                    Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   2311 > 2380           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



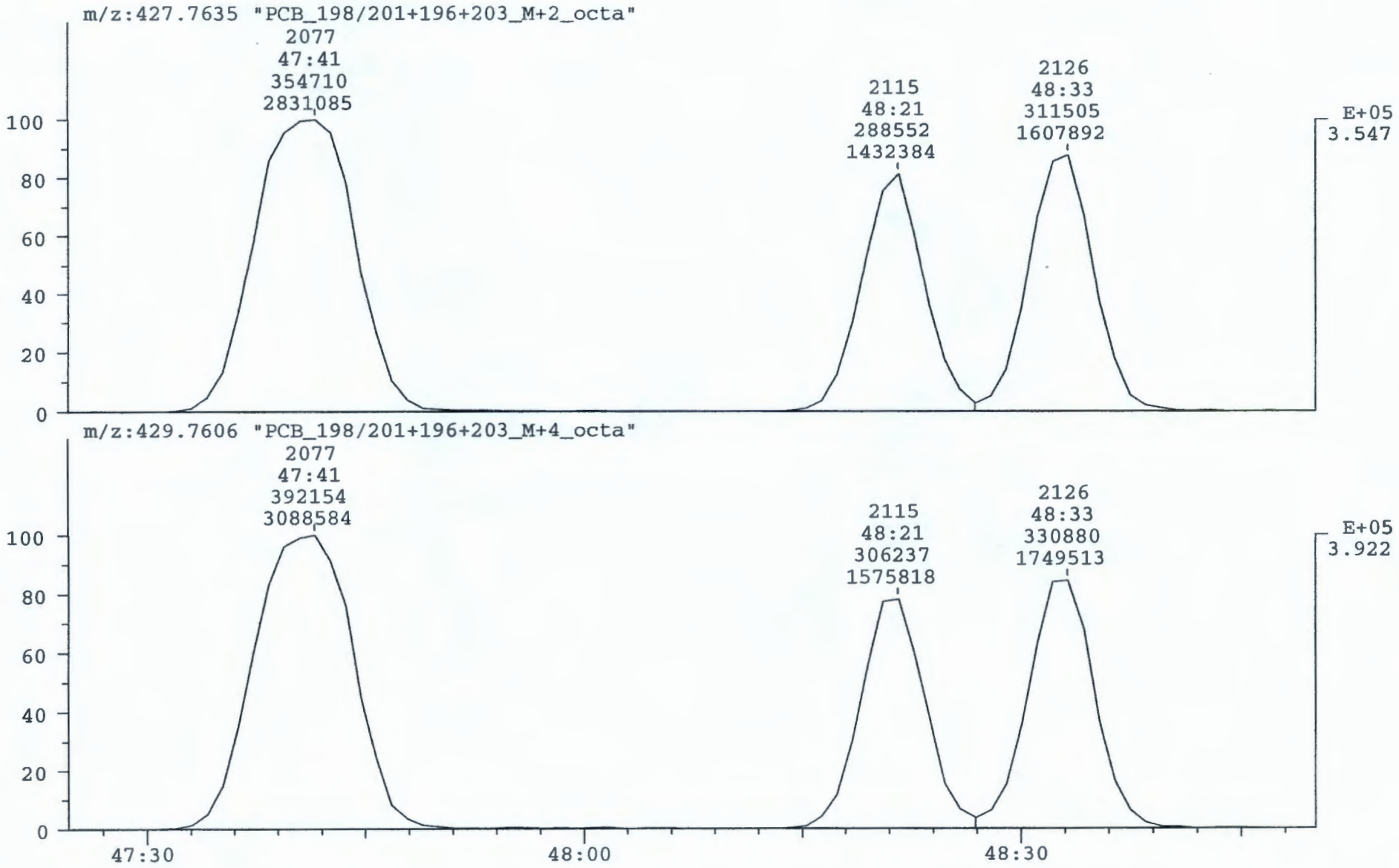
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  43:30      1839
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1791 > 1879          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



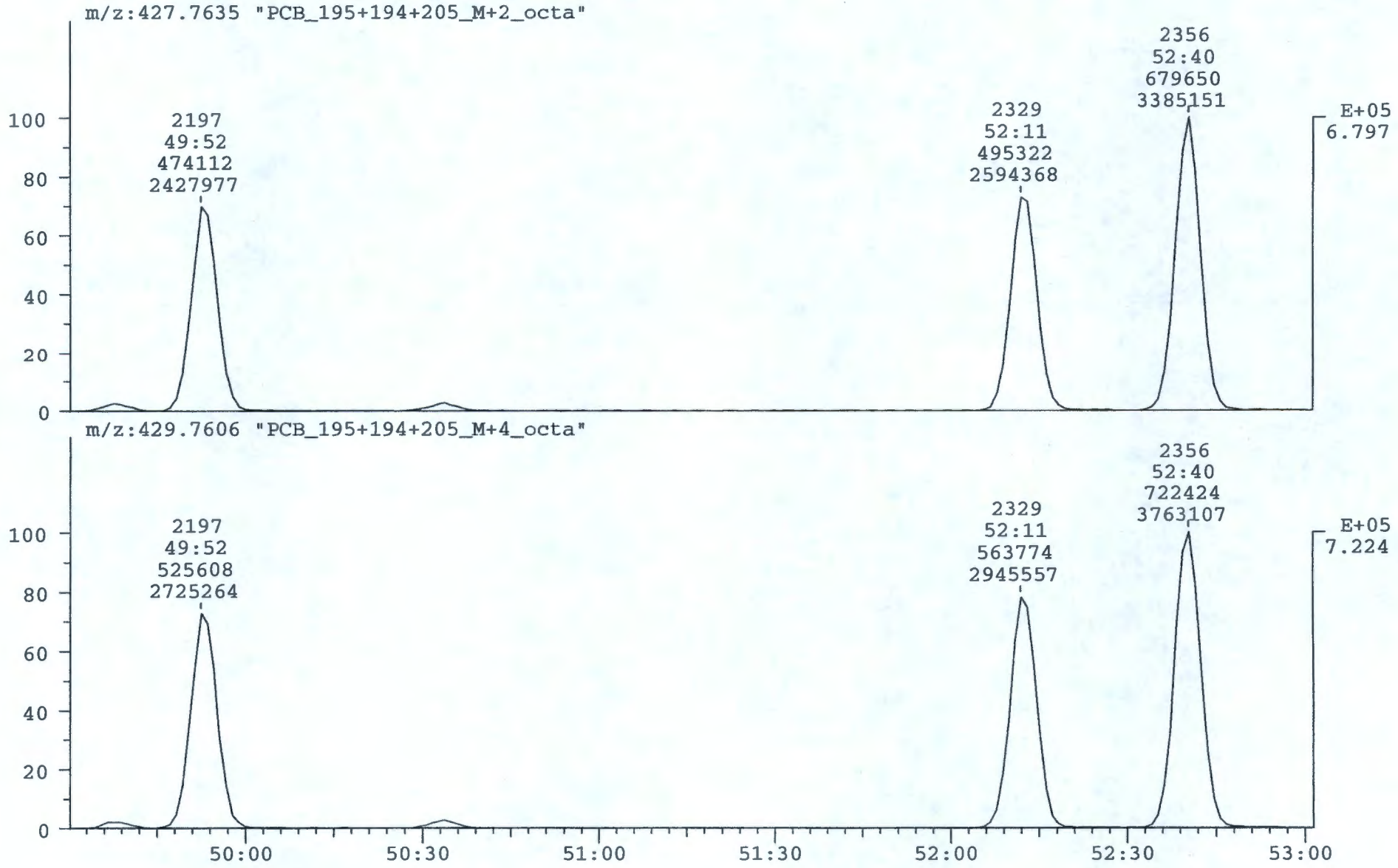
CHRO: a080625ss 25-Jun-08 Elapse: 44:34 1900
Samp: Vial 15 WO=2990:74 Meth=IE3 Dil=1 Start : 11:18:46 2603
Comm: Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 ICAL SS
Oper: DCG Client: TA Knoxville Inlet : GC Vial 15
Peak: 100.00 ppm Label wndw: 1886 > 1935 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 2 Label : -3, 3.0
Disp: Height Area



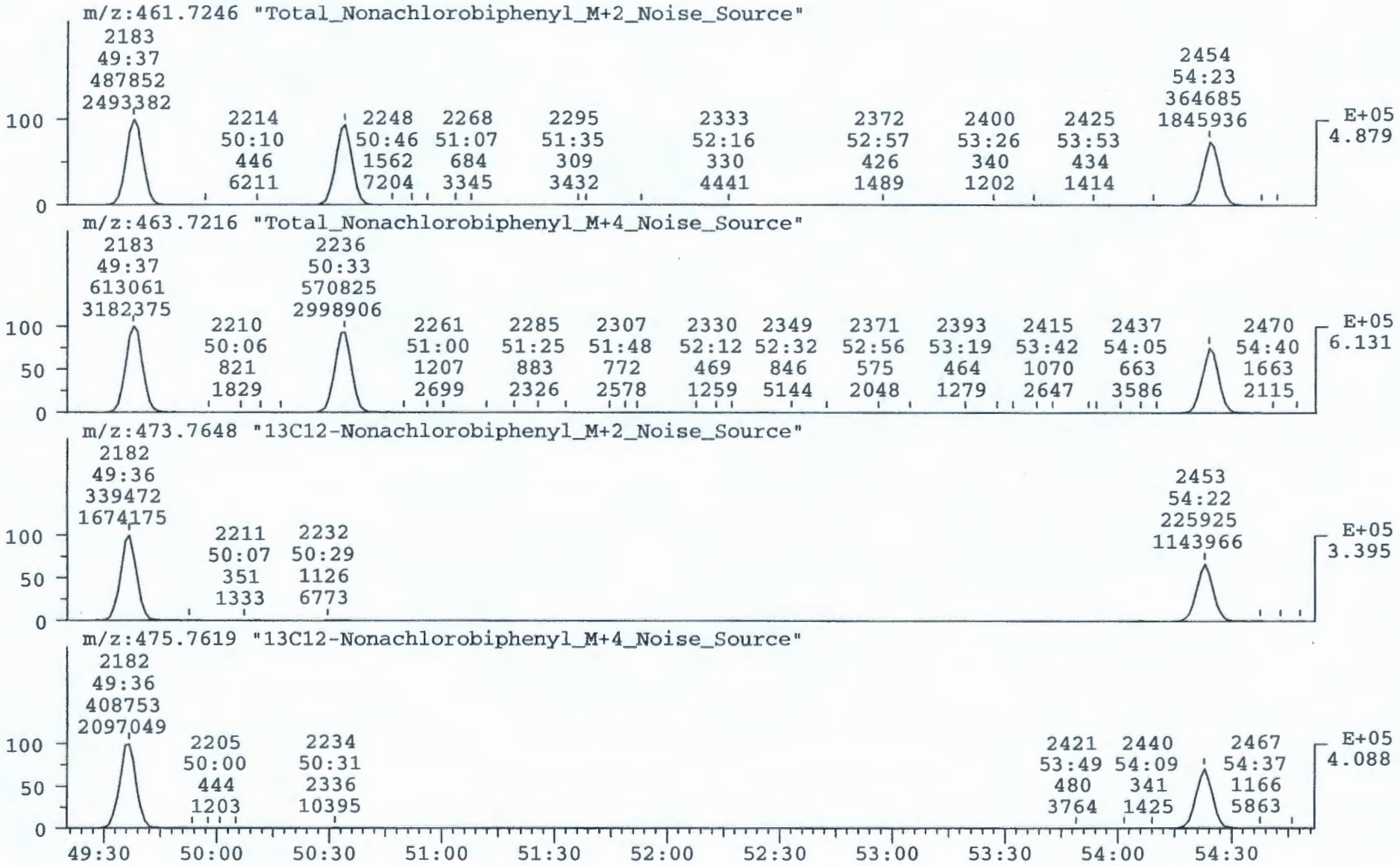
CHRO: a080625ss 25-Jun-08 Elapse: 48:21 2115
Samp: Vial 15 WO=2990:74 Meth=IE3 Dil=1 Start : 11:18:46 2603
Comm: Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 ICAL SS
Oper: DCG Client: TA Knoxville Inlet : GC Vial 15
Peak: 100.00 ppm Label wndw: 2061 > 2142 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



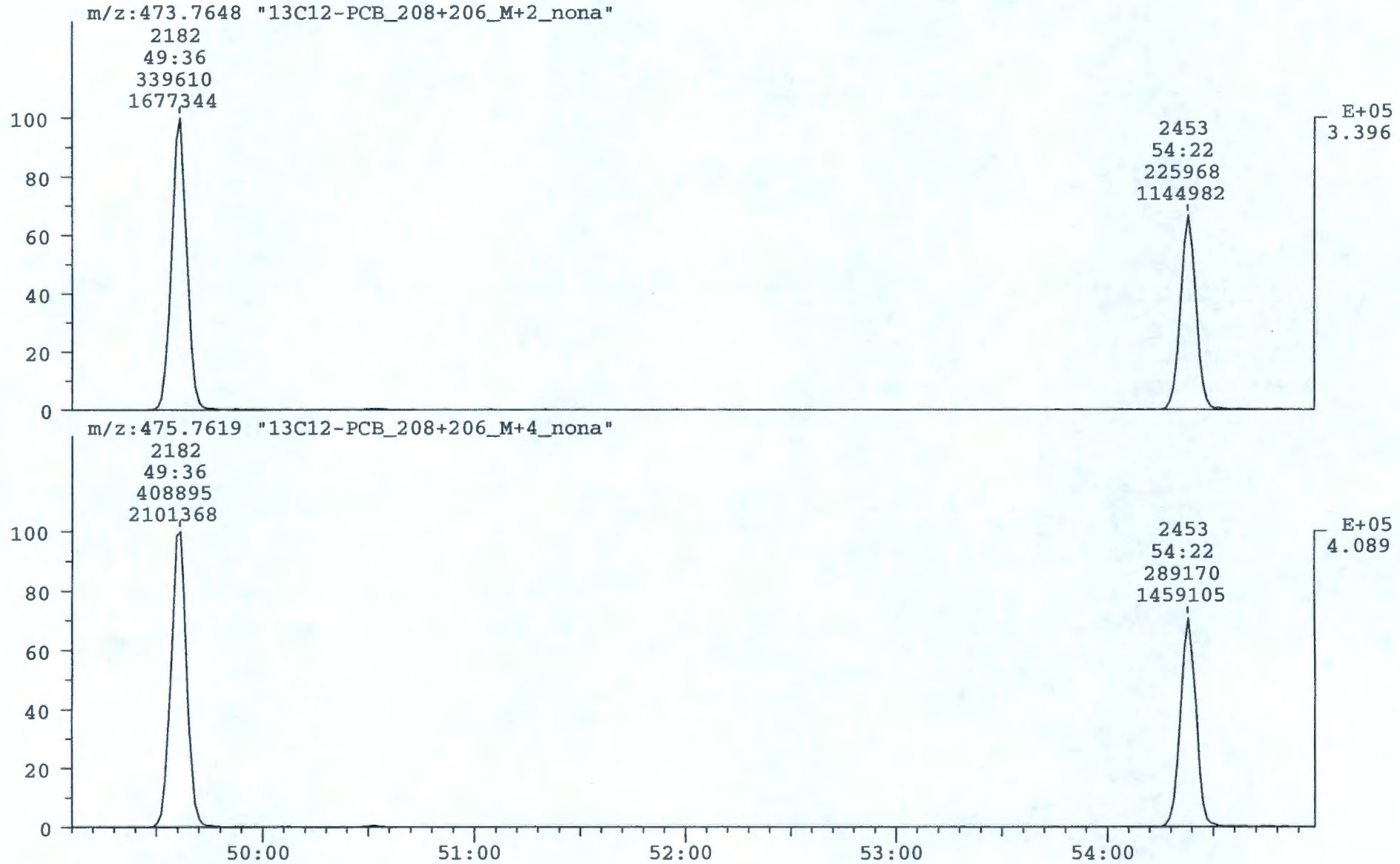
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  52:13      2331
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  15
Peak:  100.00  ppm     Label wndw:   2176 > 2376           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



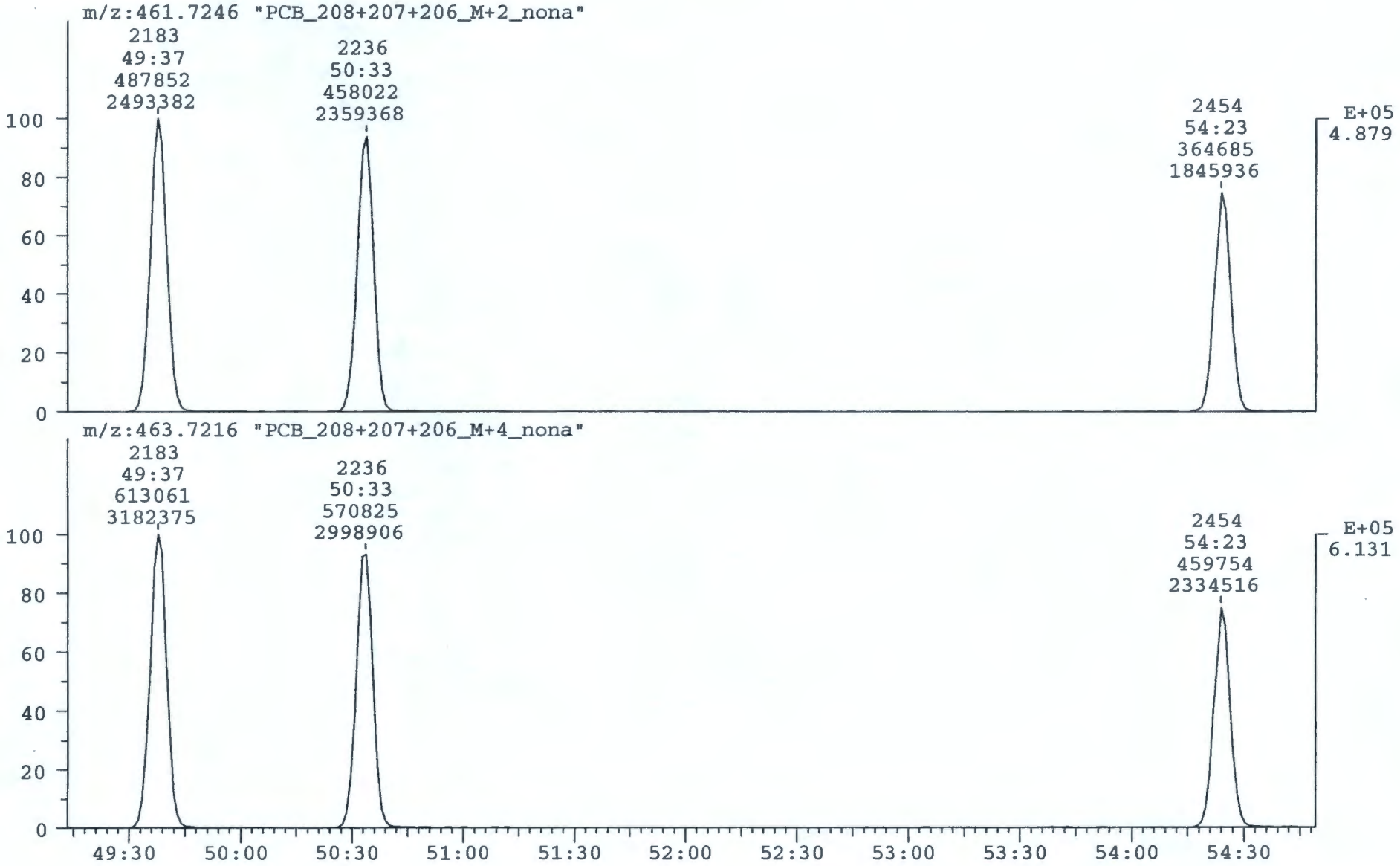
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  52:05      2323
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   2166 > 2481          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



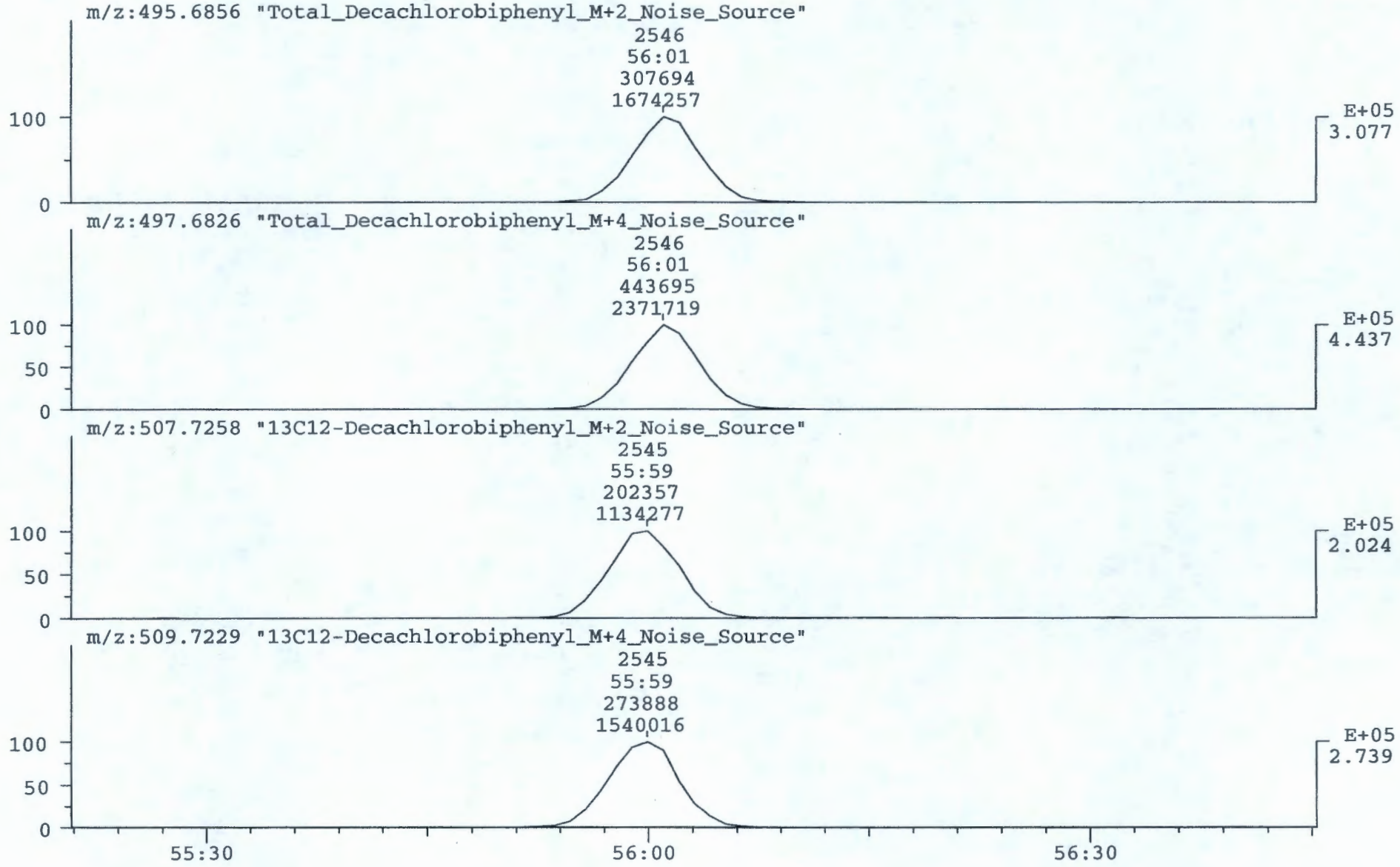
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  52:04      2322
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  15
Peak:  100.00  ppm     Label wndw:   2157 > 2487           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



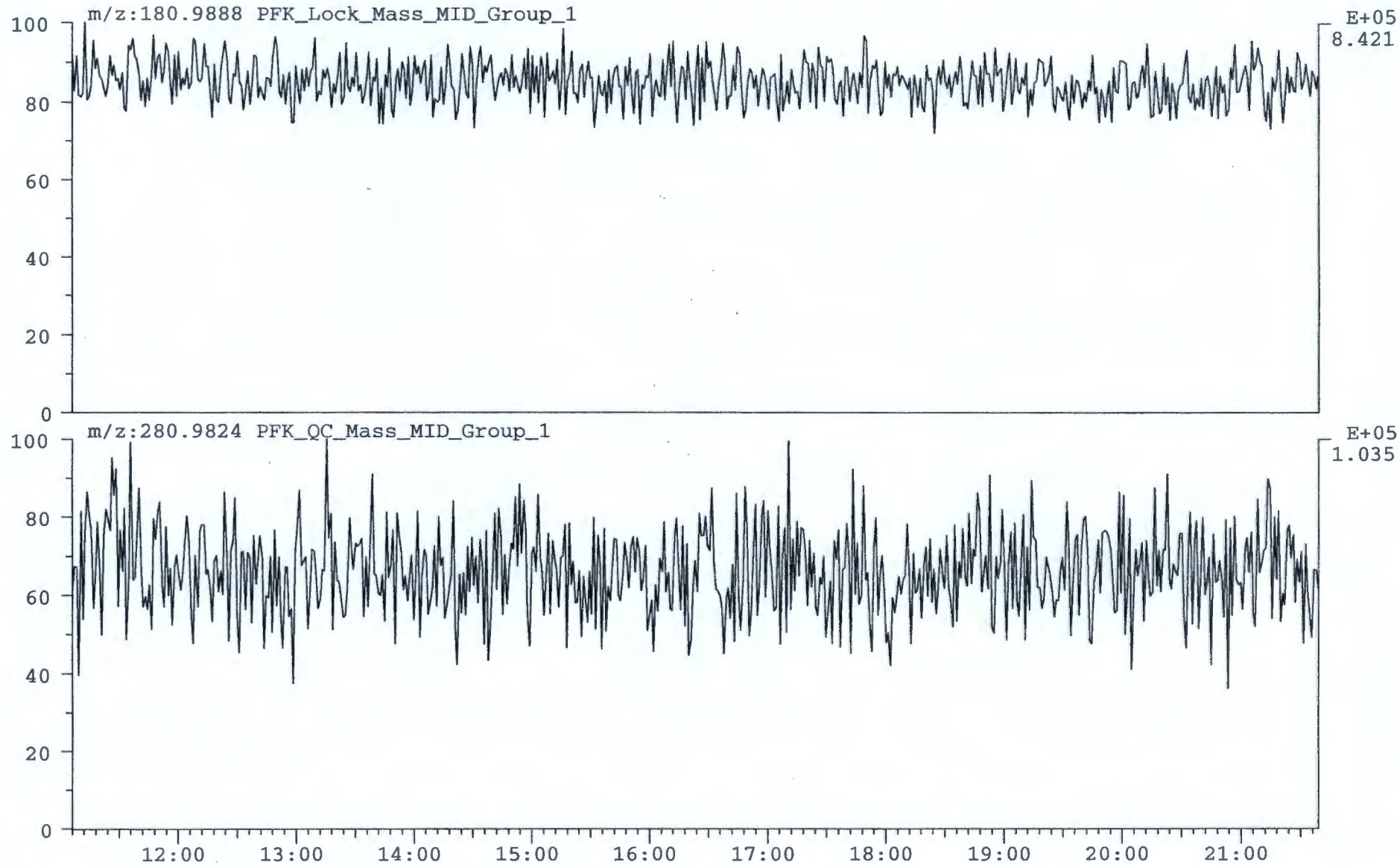
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  52:05      2323
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   2160 > 2478          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



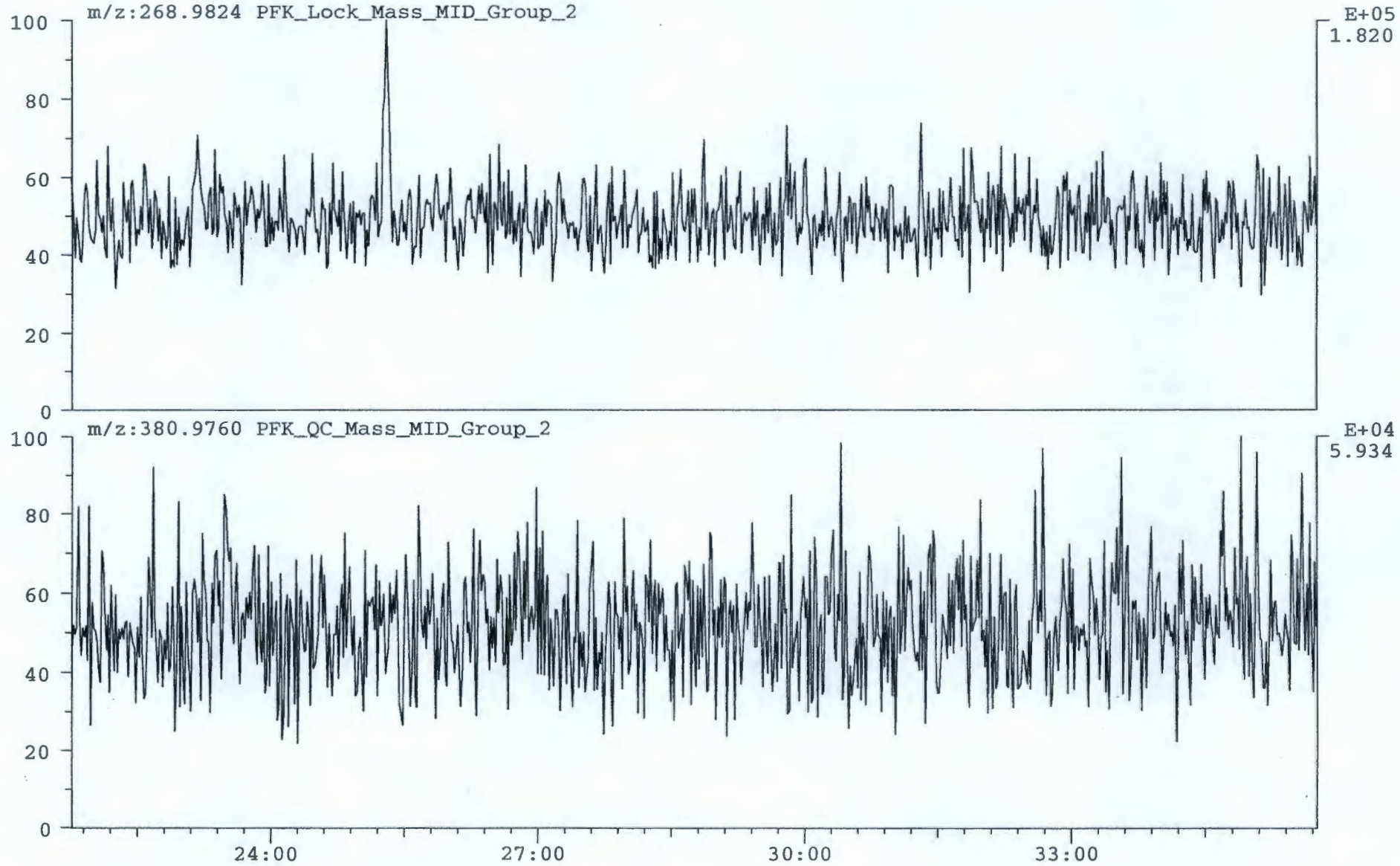
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  56:06      2551
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   2508 > 2588          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



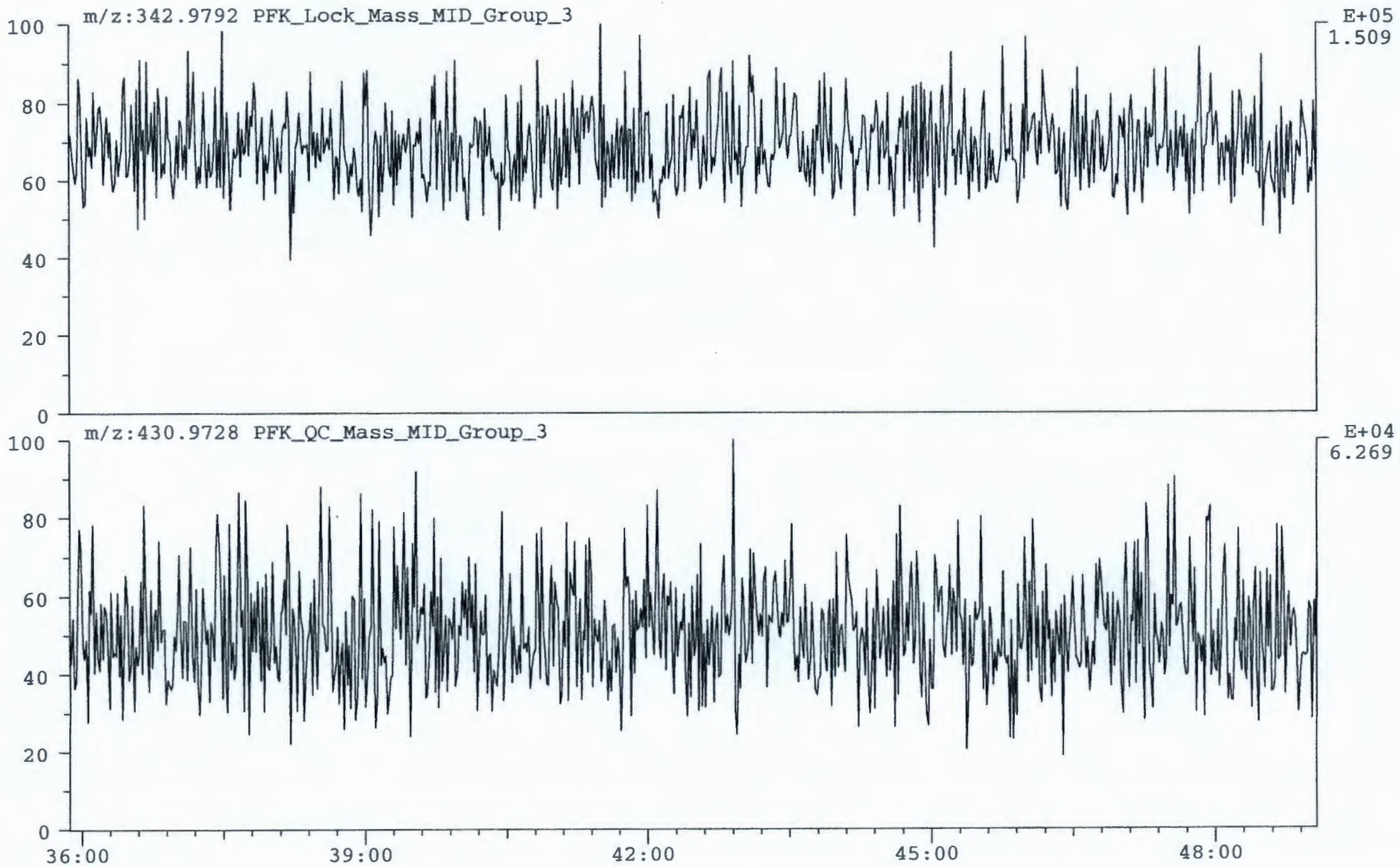
```
CHRO:  a080625ss                              25-Jun-08   Elapse:  56:06      2551
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                  Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   6 > 605             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  0, 0.0
Disp:  Height  Area
```



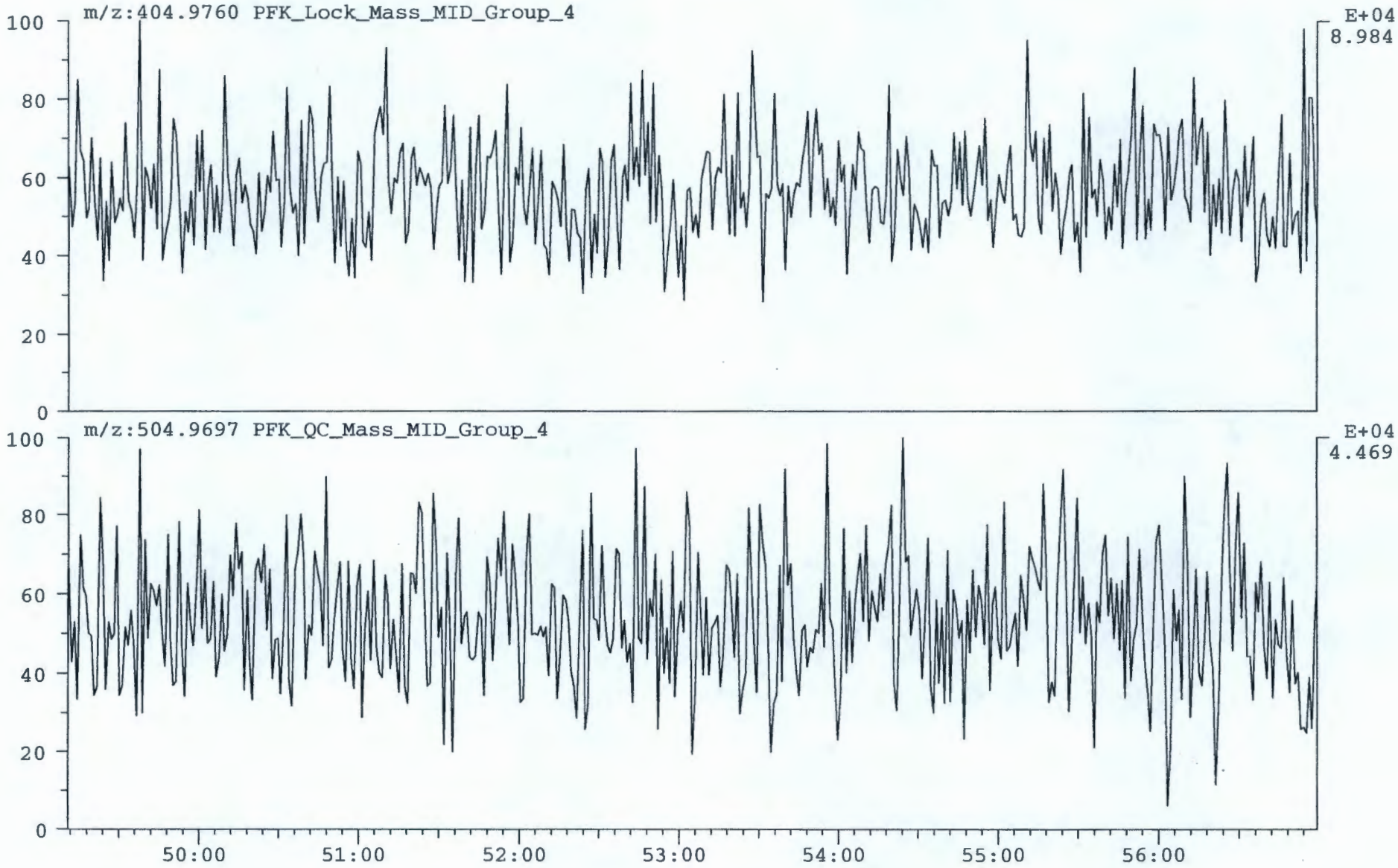
```
CHRO:  a080625ss                                25-Jun-08  Elapse:  56:06      2551
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   608 > 1403           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  0, 0.0
Disp:  Height  Area
```



```
CHRO:  a080625ss                                25-Jun-08  Elapse:  56:06      2551
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   1406 > 2155          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  0, 0.0
Disp:  Height  Area
```



```
CHRO:  a080625ss                                25-Jun-08  Elapse:  56:06      2551
Samp:  Vial 15 WO=2990:74 Meth=IE3 Dil=1                   Start :  11:18:46   2603
Comm:  Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 ICAL SS
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  15
Peak:  100.00  ppm      Label wndw:   2158 > 2601          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: a080625ss
Study: 1668 ICAL SS
Sample: WO=2990:74 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: TA Knoxville
Comments: Inst=m1d/35055-03b Batch=20080624i Ccal=20080624i
Injected volume: 2.00
Sample from Vial 15
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
Single File
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	10:40 min	21:40 min	1.00 sec
# 2	21:40 min	14:06 min	35:46 min	1.00 sec
# 3	35:46 min	13:19 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	l	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 : 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 0.0 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1031.7567
BMASS	180.9888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.6706
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-14.8500
DRAWC	1.0000	DRAWS	0.0100	ECORR	0.9994
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0000
EDACR	23.0000	EDACZ	7.0000	ELEN	55.7750
EMULT	1.7500	ENS	205.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	152.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	600.9615	FSLOPE	54000000.0000	FVANAL	343.0000
FVINLET	257.0000	FVSRC	971.0000	FWIN	0.7000
GCTC	75.0000	GCTI	270.0000	GCTL	280.0000
HACCU	156.0000	HCURR	2.1373	HVANAL	1300.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4778.9940	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	1837.0000	LENSS	8.4000
LKM	180.9888	LM	800.0000	LMASS	180.9888
LMII	500.0000	MASS	180.9888	MDAC	2351507.3768

MDACR	23.0000	MRANGE	1031.7567	MSFM	2.0000
MSLM	3790.0000	NPEAK	200.0000	NSAM	200.0000
NSCAN	14.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-6.1500
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10005.2863	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	2.0000	SCIDLE	1.0000	SHIELD	3200.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.9300	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	2.0000	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.9888	XLENS	1694.0000
XLENSS	-97.0000	YLENS	2530.0000	YLENSS	-24.2000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 25-Jun-08 11:18:46.2

Autosampler has injected sample from vial 15
MID Time Window 1: Resolution is 9049
MID Time Window 2: Resolution is 8406
MID Time Window 3: Resolution is 7794
MID Time Window 4: Resolution is 10124
Analysis stopped at: 25-Jun-08 12:15:49.5 (run time 57.04 minutes)
Analysis stopped because MID run finished

KNOX-ID-0013, Rev. 4, Analysis of Polychlorinated Biphenyl (PCB) Isomers by Isotope Dilution HRGC/HRMS

Table 2

RT References, Quantitation References, Retention Times (RT) and Relative Retiontion Times (RRT) for the 209 CB Congeners on SPB-Octyl

Cl No[1]	BZ/IUPAC No[2,3]	RT Ref[4]	Quantitaion Reference[5]	RT[6]	RRT[7]	RRT Limit[8]	RT Win[9] (sec)
Monochlorobiphenyls							
1	1L	9L	9L	12:02	0.7303	0.7152 - 0.7455	30
1	3L	9L	9L	14:14	0.8639	0.8487 - 0.8791	30
1	1	1L	1L	12:02	1.0007	0.9938 - 1.0076	10
1	2	3L	1L/3L	14:04	0.9882	0.9847 - 0.9917	6
1	3	3L	3L	14:14	1.0006	0.9971 - 1.0041	6
Dichlorobiphenyls							
2	4L	9L	9L	14:30	0.8800	0.8648 - 0.8952	30
2	9L	9L	9L	16:28	1.0000	0.9874 - 1.0126	25
2	8L	4L	4L/15L	17:20	1.1955	1.1920 - 1.1989	6
2	15L	9L	9L	20:26	1.2410	1.2309 - 1.2511	20
2	4	4L	4L	14:31	1.0011	0.9954 - 1.0069	10
2	10	4L	4L/15L	14:41	1.0126	1.0092 - 1.0161	6
2	9	4L	4L/15L	16:30	1.1380	1.1345 - 1.1414	6
2	7	4L	4L/15L	16:39	1.1487	1.1452 - 1.1521	6
2	6	4L	4L/15L	16:55	1.1667	1.1633 - 1.1702	6
2	5	4L	4L/15L	17:13	1.1878	1.1843 - 1.1912	6
2	8	4L	4L/15L	17:21	1.1970	1.1935 - 1.2004	6
2	14	15L	4L/15L	18:59	0.9284	0.9260 - 0.9309	6
2	11	15L	4L/15L	19:50	0.9702	0.9678 - 0.9727	6
2	13	15L	4L/15L	20:07	0.9843	0.9819 - 0.9868	6
2	12	15L	4L/15L	20:10	0.9865	0.9841 - 0.9890	6
2	15	15L	15L	20:27	1.0007	0.9966 - 1.0047	10
Trichlorobiphenyls							
3	19L	32L	32L	17:39	0.8436	0.8316 - 0.8555	30
3	32L	32L	32L	20:55	1.0000	0.9976 - 1.0024	6
3	31L	31L	31L	23:12	1.0000	0.9978 - 1.0022	6
3	28L	31L	31L	23:29	1.0126	1.0054 - 1.0198	20
3	37L	31L	31L	27:31	1.1865	1.1757 - 1.1973	30
3	19	19L	19L	17:40	1.0011	0.9964 - 1.0059	10
3	30	19L	19L	19:29	1.1041	1.1012 - 1.1069	6
3	18	19L	19L	19:32	1.1072	1.1044 - 1.1100	6
3	17	19L	19L	19:57	1.1308	1.1280 - 1.1336	6
3	27	19L	19L	20:11	1.1437	1.1409 - 1.1466	6
3	24	19L	19L	20:18	1.1501	1.1472 - 1.1529	6
3	16	19L	19L	20:26	1.1576	1.1548 - 1.1605	6
3	32	19L	19L	20:56	1.1865	1.1837 - 1.1894	6
3	34	19L	37L	22:12	1.2583	1.2555 - 1.2611	6
3	23	19L	37L	22:20	1.2659	1.2630 - 1.2687	6
3	29	19L	37L	22:41	1.2857	1.2810 - 1.2904	10
3	26	19L	37L	22:40	1.2848	1.2800 - 1.2895	10
3	25	37L	37L	22:54	0.8320	0.8302 - 0.8338	6
3	31	37L	37L	23:13	0.8437	0.8419 - 0.8455	6
3	28	37L	37L	23:30	0.8540	0.8509 - 0.8570	10
3	20	37L	37L	23:33	0.8558	0.8528 - 0.8588	10
3	21	37L	37L	23:41	0.8606	0.8576 - 0.8637	10
3	33	37L	37L	23:46	0.8635	0.8605 - 0.8665	10
3	22	37L	37L	24:09	0.8778	0.8760 - 0.8796	6
3	36	37L	37L	25:43	0.9343	0.9325 - 0.9362	6
3	39	37L	37L	26:04	0.9474	0.9456 - 0.9492	6
3	38	37L	37L	26:39	0.9686	0.9668 - 0.9704	6

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Cl No[1]	BZ/IUPAC No[2,3]	RT Ref[4]	Quantitaion Reference[5]	RT[6]	RRT[7]	RRT Limit[8]	RT Win[9] (sec)
3	35	37L	37L	27:08	0.9860	0.9842 - 0.9878	6
3	37	37L	37L	27:32	1.0007	0.9989 - 1.0025	6
Tetrachlorobiphenyls							
4	54L	52L	32L	20:46	0.8198	0.8132 - 0.8264	20
4	52L	52L	52L	25:20	1.0000	0.9918 - 1.0082	25
4	79L	81L	81L/77L	33:16	0.9705	0.9691 - 0.9720	6
4	81L	52L	52L	34:16	1.3530	1.3464 - 1.3596	20
4	77L	52L	52L	34:50	1.3754	1.3689 - 1.3820	20
4	54	54L	54L	20:46	1.0003	0.9963 - 1.0043	10
4	50	54L	81L/77L	22:58	1.1063	1.1023 - 1.1103	10
4	53	54L	81L/77L	22:57	1.1055	1.1015 - 1.1095	10
4	45	54L	81L/77L	23:37	1.1376	1.1336 - 1.1416	10
4	51	54L	81L/77L	23:42	1.1413	1.1373 - 1.1454	10
4	46	54L	81L/77L	23:57	1.1536	1.1512 - 1.1560	6
4	52	54L	81L/77L	25:22	1.2216	1.2192 - 1.2240	6
4	73	54L	81L/77L	25:29	1.2275	1.2251 - 1.2299	6
4	43	54L	81L/77L	25:35	1.2318	1.2294 - 1.2342	6
4	69	54L	81L/77L	25:46	1.2411	1.2371 - 1.2451	10
4	49	54L	81L/77L	25:51	1.2449	1.2409 - 1.2489	10
4	48	54L	81L/77L	26:07	1.2580	1.2556 - 1.2604	6
4	65	54L	81L/77L	26:22	1.2695	1.2655 - 1.2735	10
4	47	54L	81L/77L	26:23	1.2708	1.2668 - 1.2748	10
4	44	54L	81L/77L	26:21	1.2690	1.2649 - 1.2730	10
4	62	54L	81L/77L	26:38	1.2826	1.2786 - 1.2866	10
4	75	54L	81L/77L	26:42	1.2861	1.2820 - 1.2901	10
4	59	54L	81L/77L	26:41	1.2853	1.2812 - 1.2893	10
4	42	54L	81L/77L	26:53	1.2949	1.2925 - 1.2973	6
4	41	54L	81L/77L	27:16	1.3133	1.3093 - 1.3174	10
4	71	54L	81L/77L	27:23	1.3190	1.3150 - 1.3230	10
4	40	54L	81L/77L	27:24	1.3193	1.3153 - 1.3233	10
4	64	54L	81L/77L	27:36	1.3292	1.3268 - 1.3316	6
4	72	81L	81L/77L	28:25	0.8293	0.8278 - 0.8308	6
4	68	81L	81L/77L	28:42	0.8376	0.8361 - 0.8390	6
4	57	81L	81L/77L	29:08	0.8501	0.8486 - 0.8515	6
4	58	81L	81L/77L	29:23	0.8574	0.8559 - 0.8588	6
4	67	81L	81L/77L	29:32	0.8617	0.8603 - 0.8632	6
4	63	81L	81L/77L	29:49	0.8699	0.8684 - 0.8713	6
4	61	81L	81L/77L	30:02	0.8763	0.8734 - 0.8792	12
4	70	81L	81L/77L	30:08	0.8792	0.8763 - 0.8822	12
4	76	81L	81L/77L	30:09	0.8797	0.8768 - 0.8827	12
4	74	81L	81L/77L	30:12	0.8812	0.8788 - 0.8836	10
4	66	81L	81L/77L	30:29	0.8893	0.8879 - 0.8908	6
4	55	81L	81L/77L	30:39	0.8943	0.8929 - 0.8958	6
4	56	81L	81L/77L	31:09	0.9089	0.9075 - 0.9104	6
4	60	81L	81L/77L	31:22	0.9152	0.9138 - 0.9167	6
4	80	81L	81L/77L	31:45	0.9266	0.9251 - 0.9280	6
4	79	81L	81L/77L	33:18	0.9715	0.9700 - 0.9730	6
4	78	81L	81L/77L	33:51	0.9877	0.9862 - 0.9892	6
4	81	81L	81L	34:18	1.0008	0.9994 - 1.0023	6
4	77	77L	77L	34:51	1.0004	0.9990 - 1.0019	6
Pentachlorobiphenyls							

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Cl No[1]	BZ/IUPAC No[2,3]	RT Ref[4]	Quantitaion Reference[5]	RT[6]	RRT[7]	RRT Limit[8]	RT Win[9] (sec)
5	104L	101L	101L	26:17	0.8166	0.8114 - 0.8218	20
5	95L	104L	104L	29:15	1.1134	1.1102 - 1.1166	10
5	101L	101L	101L	32:11	1.0000	0.9935 - 1.0065	25
5	111L	101L	101L	34:51	1.0831	1.0779 - 1.0883	20
5	123L	101L	127L	36:50	1.1445	1.1393 - 1.1497	20
5	118L	101L	127L	37:09	1.1547	1.1495 - 1.1598	20
5	114L	101L	127L	37:41	1.1711	1.1659 - 1.1762	20
5	105L	101L	127L	38:21	1.1916	1.1865 - 1.1968	20
5	127L	127L	127L	39:47	1.0000	0.9948 - 1.0052	25
5	126L	101L	127L	41:25	1.2872	1.2820 - 1.2924	20
5	104	104L	104L	26:18	1.0008	0.9977 - 1.0040	10
5	96	104L	104L	26:42	1.0162	1.0131 - 1.0194	10
5	103	104L	104L	28:36	1.0885	1.0866 - 1.0904	6
5	94	104L	104L	28:50	1.0972	1.0953 - 1.0991	6
5	95	104L	104L	29:17	1.1145	1.1114 - 1.1177	10
5	100	104L	104L	29:28	1.1213	1.1182 - 1.1245	10
5	93	104L	104L	29:31	1.1232	1.1201 - 1.1264	10
5	102	104L	104L	29:38	1.1279	1.1247 - 1.1310	10
5	98	104L	104L	29:42	1.1304	1.1272 - 1.1336	10
5	88	104L	104L	30:03	1.1433	1.1395 - 1.1471	12
5	91	104L	104L	30:09	1.1471	1.1440 - 1.1503	10
5	84	104L	104L	30:23	1.1562	1.1543 - 1.1581	6
5	89	104L	104L	30:52	1.1744	1.1725 - 1.1763	6
5	121	104L	104L	31:13	1.1881	1.1862 - 1.1900	6
5	92	123L	104L	31:38	0.8588	0.8574 - 0.8601	6
5	113	104L	104L	32:09	1.2234	1.2203 - 1.2266	10
5	90	104L	104L	32:12	1.2253	1.2222 - 1.2285	10
5	101	104L	104L	32:12	1.2255	1.2224 - 1.2287	10
5	83	104L	104L	32:42	1.2442	1.2404 - 1.2480	12
5	99	104L	104L	32:47	1.2477	1.2446 - 1.2509	10
5	112	104L	104L	32:55	1.2526	1.2507 - 1.2545	6
5	109/108	104L	104L	33:14	1.2647	1.2596 - 1.2697	16
5	86	104L	104L	33:18	1.2670	1.2619 - 1.2721	16
5	119	104L	104L	33:17	1.2668	1.2617 - 1.2718	16
5	97	104L	104L	33:18	1.2674	1.2623 - 1.2725	16
5	125	104L	104L	33:22	1.2699	1.2649 - 1.2750	16
5	87	104L	104L	33:25	1.2715	1.2683 - 1.2746	10
5	117	104L	104L	33:55	1.2907	1.2869 - 1.2945	12
5	116	104L	104L	34:00	1.2940	1.2902 - 1.2978	12
5	85	104L	104L	34:02	1.2951	1.2919 - 1.2983	10
5	110	104L	104L	34:12	1.3013	1.2981 - 1.3044	10
5	115	104L	104L	34:15	1.3035	1.3004 - 1.3067	10
5	82	104L	104L	34:32	1.3139	1.3120 - 1.3158	6
5	111	104L	104L	34:53	1.3273	1.3254 - 1.3292	6
5	120	104L	104L	35:21	1.3450	1.3431 - 1.3469	6
5	124	104L	123L/114L/118L/105L/126L	36:30	1.3892	1.3860 - 1.3923	10
5	108/107	104L	123L/114L/118L/105L/126L	36:29	1.3885	1.3854 - 1.3917	10
5	107/109	104L	123L/114L/118L/105L/126L	36:45	1.3983	1.3964 - 1.4002	6
5	123	123L	123L	36:51	1.0004	0.9990 - 1.0018	6
5	106	123L	123L/114L/118L/105L/126L	36:58	1.0037	1.0024 - 1.0051	6
5	118	118L	118L	37:11	1.0006	0.9992 - 1.0019	6

KNOX-ID-0013, Rev. 4, Analysis of Polychlorinated Biphenyl (PCB) Isomers by Isotope Dilution HRGC/HRMS

Table 2

RT References, Quantitation References, Retention Times (RT) and Relative Retiontion Times (RRT) for the 209 CB Congeners on SPB-Octyl

Cl No[1]	BZ/IUPAC No[2,3]	RT Ref[4]	Quantitaion Reference[5]	RT[6]	RRT[7]	RRT Limit[8]	RT Win[9] (sec)
5	122	118L	123L/114L/118L/105L/126L	37:32	1.0103	1.0089 - 1.0116	6
5	114	114L	114L	37:42	1.0005	0.9992 - 1.0019	6
5	105	105L	105L	38:23	1.0008	0.9995 - 1.0021	6
5	127	105L	123L/114L/118L/105L/126L	39:49	1.0385	1.0372 - 1.0398	6
5	126	126L	126L	41:26	1.0004	0.9992 - 1.0016	6
Hexachlorobiphenyls							
6	155L	138L	101L	31:56	0.7929	0.7888 - 0.7970	20
6	153L	167L	156L/167L/169L	39:01	0.9018	0.8999 - 0.9038	10
6	138L	138L	138L	40:16	1.0000	0.9793 - 1.0207	100
6	167L	138L	138L	43:16	1.0742	1.0701 - 1.0783	20
6	156L	138L	138L	44:26	1.1033	1.1021 - 1.1046	6
6	157L	138L	138L	44:26	1.1033	1.0992 - 1.1075	20
6	169L	138L	138L	47:39	1.1833	1.1820 - 1.1845	6
6	155	155L	155L	31:57	1.0007	0.9981 - 1.0033	10
6	152	155L	155L	32:12	1.0082	1.0067 - 1.0098	6
6	150	155L	155L	32:21	1.0129	1.0114 - 1.0145	6
6	136	155L	155L	32:44	1.0249	1.0234 - 1.0265	6
6	145	155L	155L	33:00	1.0336	1.0320 - 1.0352	6
6	148	155L	155L	34:30	1.0804	1.0789 - 1.0820	6
6	151	155L	155L	35:06	1.0992	1.0966 - 1.1018	10
6	135	155L	155L	35:10	1.1015	1.0989 - 1.1041	10
6	154	155L	155L	35:21	1.1069	1.1043 - 1.1095	10
6	144	155L	155L	35:40	1.1171	1.1156 - 1.1187	6
6	147	155L	156L/167L/169L	36:02	1.1285	1.1258 - 1.1311	10
6	149	155L	156L/167L/169L	36:03	1.1288	1.1262 - 1.1314	10
6	134	155L	156L/167L/169L	36:15	1.1351	1.1325 - 1.1377	10
6	143	155L	156L/167L/169L	36:21	1.1385	1.1359 - 1.1411	10
6	139	155L	156L/167L/169L	36:37	1.1467	1.1441 - 1.1493	10
6	140	155L	156L/167L/169L	36:39	1.1476	1.1450 - 1.1502	10
6	131	155L	156L/167L/169L	36:50	1.1537	1.1521 - 1.1552	6
6	142	155L	156L/167L/169L	36:59	1.1584	1.1568 - 1.1599	6
6	132	155L	156L/167L/169L	37:19	1.1688	1.1662 - 1.1714	10
6	133	155L	156L/167L/169L	37:47	1.1834	1.1818 - 1.1850	6
6	165	167L	156L/167L/169L	38:11	0.8825	0.8814 - 0.8837	6
6	146	167L	156L/167L/169L	38:26	0.8883	0.8872 - 0.8895	6
6	161	167L	156L/167L/169L	38:34	0.8914	0.8902 - 0.8925	6
6	153	167L	156L/167L/169L	39:02	0.9024	0.9005 - 0.9043	10
6	168	167L	156L/167L/169L	39:05	0.9036	0.9016 - 0.9055	10
6	141	167L	156L/167L/169L	39:15	0.9073	0.9061 - 0.9085	6
6	130	167L	156L/167L/169L	39:40	0.9168	0.9157 - 0.9180	6
6	137	167L	156L/167L/169L	39:52	0.9217	0.9205 - 0.9228	6
6	164	167L	156L/167L/169L	40:00	0.9248	0.9236 - 0.9259	6
6	138	167L	156L/167L/169L	40:18	0.9315	0.9288 - 0.9342	14
6	163	167L	156L/167L/169L	40:18	0.9317	0.9290 - 0.9344	14
6	129	167L	156L/167L/169L	40:22	0.9332	0.9305 - 0.9359	14
6	160	167L	156L/167L/169L	40:27	0.9352	0.9332 - 0.9371	10
6	158	167L	156L/167L/169L	40:41	0.9403	0.9392 - 0.9415	6
6	166	167L	156L/167L/169L	41:31	0.9597	0.9578 - 0.9616	10
6	128	167L	156L/167L/169L	41:35	0.9611	0.9592 - 0.9631	10
6	159	167L	156L/167L/169L	42:31	0.9829	0.9818 - 0.9841	6
6	162	167L	156L/167L/169L	42:48	0.9895	0.9883 - 0.9906	6

KNOX-ID-0013, Rev. 4, Analysis of Polychlorinated Biphenyl (PCB) Isomers by Isotope Dilution HRGC/HRMS

Table 2

RT References, Quantitation References, Retention Times (RT) and Relative Retiontion Times (RRT) for the 209 CB Congeners on SPB-Octyl

Cl No[1]	BZ/IUPAC No[2,3]	RT Ref[4]	Quantitaion Reference[5]	RT[6]	RRT[7]	RRT Limit[8]	RT Win[9] (sec)
6	167	167L	167L	43:17	1.0007	0.9995 - 1.0018	6
6	156	156L	156L	44:25	0.9997	0.9986 - 1.0009	6
6	157	157L	156L	44:29	1.0011	0.9992 - 1.0030	10
6	169	169L	169L	47:40	1.0003	0.9993 - 1.0014	6
Heptachlorobiphenyls							
7	188L	180L	180L	37:40	0.8223	0.8187 - 0.8259	20
7	178L	180L	180L	40:43	0.8890	0.8853 - 0.8926	20
7	180L	180L	180L	45:48	1.0000	0.9964 - 1.0036	20
7	170L	180L	180L	47:04	1.0277	1.0241 - 1.0314	20
7	189L	180L	194L	50:10	1.0953	1.0917 - 1.0989	20
7	188	188L	188L	37:40	1.0003	0.9990 - 1.0016	6
7	179	188L	188L/170L	38:03	1.0104	1.0090 - 1.0117	6
7	184	188L	188L/170L	38:33	1.0236	1.0223 - 1.0250	6
7	176	188L	188L/170L	38:56	1.0337	1.0324 - 1.0350	6
7	186	188L	188L/170L	39:23	1.0456	1.0443 - 1.0470	6
7	178	188L	188L/170L	40:45	1.0819	1.0806 - 1.0832	6
7	175	188L	188L/170L	41:22	1.0986	1.0972 - 1.0999	6
7	187	188L	188L/170L	41:38	1.1056	1.1043 - 1.1070	6
7	182	188L	188L/170L	41:51	1.1111	1.1098 - 1.1125	6
7	183	188L	188L/170L	42:15	1.1219	1.1206 - 1.1232	6
7	185	188L	188L/170L	42:21	1.1247	1.1233 - 1.1260	6
7	174	188L	188L/170L	42:30	1.1287	1.1273 - 1.1300	6
7	177	188L	188L/170L	42:57	1.1403	1.1390 - 1.1417	6
7	181	188L	188L/170L	43:20	1.1505	1.1492 - 1.1518	6
7	171	188L	188L/170L	43:34	1.1570	1.1548 - 1.1592	10
7	173	188L	188L/170L	43:32	1.1561	1.1548 - 1.1574	6
7	172	189L	188L/170L	45:10	0.9005	0.8995 - 0.9015	6
7	192	189L	188L/170L	45:27	0.9059	0.9049 - 0.9069	6
7	193	189L	188L/170L	45:46	0.9124	0.9114 - 0.9133	6
7	180	189L	188L/170L	45:49	0.9134	0.9125 - 0.9144	6
7	191	189L	188L/170L	46:11	0.9206	0.9196 - 0.9216	6
7	170	189L	170L	47:05	0.9387	0.9377 - 0.9397	6
7	190	189L	188L/170L	47:36	0.9490	0.9480 - 0.9500	6
7	189	189L	189L	50:11	1.0004	0.9994 - 1.0014	6
Octachlorobiphenyls							
8	202L	194L	180L	43:01	0.8233	0.8201 - 0.8265	20
8	194L	194L	194L	52:16	1.0000	0.9960 - 1.0040	25
8	205L	194L	194L	52:43	1.0089	1.0041 - 1.0137	30
8	202	202L	202L	43:03	1.0005	0.9985 - 1.0024	10
8	200/201	202L	202L	43:59	1.0222	1.0202 - 1.0241	10
8	204	202L	202L	44:38	1.0374	1.0362 - 1.0385	6
8	197	202L	202L	44:52	1.0428	1.0416 - 1.0440	6
8	199/200	202L	202L	44:59	1.0456	1.0445 - 1.0468	6
8	198	202L	202L	47:43	1.1092	1.1072 - 1.1111	10
8	201/199	202L	202L	47:47	1.1106	1.1094 - 1.1118	6
8	196	205L	202L	48:26	0.9187	0.9177 - 0.9196	6
8	203	205L	202L	48:37	0.9222	0.9213 - 0.9232	6
8	195	205L	205L	49:58	0.9476	0.9467 - 0.9486	6
8	194	205L	205L	52:17	0.9916	0.9906 - 0.9925	6
8	205	205L	205L	52:44	1.0003	0.9994 - 1.0013	6
Nonachlorobiphenyls							

KNOX-ID-0013, Rev. 4, Analysis of Polychlorinated Biphenyl (PCB) Isomers by Isotope Dilution HRGC/HRMS

Table 2

RT References, Quantitation References, Retention Times (RT) and Relative Retiontion Times (RRT) for the 209 CB Congeners on SPB-Octyl

Cl No[1]	BZ/IUPAC No[2,3]	RT Ref[4]	Quantitaion Reference[5]	RT[6]	RRT[7]	RRT Limit[8]	RT Win[9] (sec)
9	208L	194L	194L	49:41	0.9506	0.9474 - 0.9538	20
9	206L	194L	194L	54:28	1.0421	1.0373 - 1.0469	30
9	208	208L	208L	49:42	1.0005	0.9995 - 1.0015	6
9	207	208L	206L/208L	50:38	1.0193	1.0183 - 1.0203	6
9	206	206L	206L	54:28	1.0002	0.9993 - 1.0012	6
Decachlorobiphenyls							
10	209L	194L	194L	56:05	1.0731	1.0683 - 1.0779	30
10	209	209L	209L	56:06	1.0004	0.9995 - 1.0013	6

1 Number of chlorines on congener.
2 Suffix "L" indicated labeled compound.
3 IUPAC Number per Table 2 of Method 1668A.
4 Retention time reference that is used to locate target congener.
5 Quantitation reference that is used to calculate the concentration of the target congener or labeled standard.
6 Average Retention Time of target congener based upon the 15 point ICAL Retention Time Study.
7 RRT between the RT for the congener and the RT for the reference.
8 Nominal limits based on an ± 0.5% of the RRT, adjusted for the nearest eluted isomer.
9 RT window width for congener or group of two or more congeners.

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IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r1.	Prep Date		SDG No	
Analysis ID	104267	Prep Exp Date		Date Received	
Analysis Date	06/10/08 14:37	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	113	68	45	1.51 *	/	
	PCB 2 (BZ)	14:04	00:00	0	1149253	353177	416681	126978	3.25	AVV/ABV	
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	180	203	72	81	0.89 *	/	
	13C12-PCB 1	12:03	00:00	0	1826102	559083	713102	213911	3.27	AVV/AVV	
	13C12-PCB 3	14:15	00:00	0	1831180	544824	631971	187412	3.36	ABV/ABV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	135	330	54	132	0.41 *	/	
	PCB 10 (BZ)	14:41	00:00	0	483666	312779	161593	104704	1.55	AVV/ABB	
	PCB 9 (BZ)	16:30	00:00	0	511059	322665	156523	98607	1.58	ABV/ABV	
	PCB 6 (BZ)	16:56	00:00	0	499579	313264	151400	95151	1.59	ABV/AVB	
	PCB 8 (BZ)	17:22	00:00	0	518210	327344	153763	97039	1.58	AVV/ABV	
	PCB 14 (BZ)	18:59	00:00	0	521163	331587	139721	87081	1.57	ABV/ABV	M
	PCB 11 (BZ)	19:51	00:00	0	494584	320505	129700	84814	1.54	ABV/AVV	M
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	218	155	87	62	1.40	/	
	13C12-PCB 4	14:31	00:00	0	509391	327645	172783	110619	1.55	AVV/AVV	
	13C12-PCB 9	16:29	00:00	0	815728	513901	245983	155325	1.59	ABV/ABV	
	13C12-PCB 8	17:21	00:00	0	889852	581419	263373	173167	1.53	AVV/AVV	
	13C12-PCB 15	20:28	00:00	0	867207	562546	226821	149662	1.54	ABV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	153	105	61	42	1.45 *	/	
	PCB 30 (BZ)	19:30	00:00	0	248975	242871	68420	66848	1.03	ABV/ABV	M
	PCB 27 (BZ)	20:12	00:00	0	239702	239822	62904	61596	1.00	ABV/AVV	
	PCB 32 (BZ)	20:57	00:00	0	251680	250305	61952	61995	1.01	AVV/ABV	M
	PCB 34 (BZ)	22:14	00:00	0	744174	687632	173458	168466	1.08	ABV/ABV	M
	PCB 26 (BZ)	22:41	00:00	0	740294	711454	181593	169002	1.04	AVV/AVV	M
	PCB 31 (BZ)	23:14	00:00	0	792733	757689	199276	186352	1.05	AVV/AVV	M
	PCB 33 (BZ)	23:47	00:00	0	743478	703840	177025	168767	1.06	AVV/AVV	M
	PCB 36 (BZ)	25:44	00:00	0	766598	727924	177814	167145	1.05	ABV/ABV	
	PCB 38 (BZ)	26:40	00:00	0	699257	665774	153165	149532	1.05	ABV/AVV	M
	PCB 35 (BZ)	27:09	00:00	0	712540	670391	159849	152146	1.06	AVV/AVV	
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	228	150	91	60	1.52 *	/	
	13C12-PCB 19	17:40	00:00	0	272436	268548	80751	75789	1.01	AVV/AVV	
	13C12-PCB 32	20:56	00:00	0	475968	456581	126617	119452	1.04	AVV/AVV	
	13C12-PCB 31	23:13	00:00	0	1367709	1261528	345313	303837	1.08	ABV/ABV	
	13C12-PCB 28	23:31	00:00	0	1295044	1214617	308336	288922	1.07	AVV/AVV	
	13C12-PCB 37	27:33	00:00	0	1234733	1105803	274440	241321	1.12	AVV/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	153	145	61	58	1.05 *	/	
	PCB 50 (BZ)	22:59	00:00	0	561498	708695	139226	174100	0.79	ABV/ABV	M

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

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r1.	Prep Date		SDG No	
Analysis ID	104267	Prep Exp Date		Date Received	
Analysis Date	06/10/08 14:37	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 45 (BZ)	23:38	00:00	0	508366	627630	118830	149848	0.81	ABB/ABB	M
	PCB 52 (BZ)	25:23	00:00	0	588405	751334	139618	168426	0.78	ABV/ABV	D
	PCB 49 (BZ)	25:52	00:00	0	613372	744449	141777	172711	0.82	AVV/AVV	DM
	PCB 75 (BZ)	26:43	00:00	0	805572	978908	190938	231819	0.82	AVV/ABV	DM
	PCB 41 (BZ)	27:17	00:00	0	485690	604710	104492	137929	0.80	AVV/AVV	
	PCB 72 (BZ)	28:27	00:00	0	790837	976036	169845	215876	0.81	ABV/ABV	
	PCB 57 (BZ)	29:09	00:00	0	736419	914962	167002	207238	0.80	AVV/AVV	
	PCB 63 (BZ)	29:49	00:00	0	769947	945758	174567	210808	0.81	ABV/ABV	
	PCB 66 (BZ)	30:29	00:00	0	759439	964314	165237	207382	0.79	ABV/ABB	
	PCB 79 (BZ)	33:18	00:00	0	847303	1053641	177180	225116	0.80	ABV/ABV	
	PCB 78 (BZ)	33:52	00:00	0	778235	968686	170894	205868	0.80	AVV/AVV	
	PCB 81 (BZ)	34:19	00:00	0	776277	976497	161743	210103	0.79	AVV/AVV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	133	125	53	50	1.06 *	/	
	13C12-PCB 54	20:47	00:00	0	263793	340314	70929	85620	0.78	ABV/ABB	
	13C12-PCB 52	25:21	00:00	0	483240	603457	111628	142142	0.80	AVV/AVV	
	13C12-PCB 79	33:17	00:00	0	716512	901263	152383	198072	0.80	ABV/ABV	
	13C12-PCB 81	34:17	00:00	0	616605	747733	135310	160888	0.82	ABV/ABV	
	13C12-PCB 77	34:51	00:00	0	634555	788749	128377	165717	0.80	ABV/ABV	
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	153	148	61	59	1.03 *	/	
	PCB 96 (BZ)	26:43	00:00	0	592480	369894	135202	87817	1.60	ABV/ABV	
	PCB 103 (BZ)	28:37	00:00	0	500127	304827	111271	64874	1.64	ABV/ABV	
	PCB 95 (BZ)	29:18	00:00	0	465385	291931	101202	64855	1.59	AVV/AVV	
	PCB 88 (BZ)	30:04	00:00	0	434907	258044	88619	59663	1.69	ABV/ABV	
	PCB 89 (BZ)	30:52	00:00	0	416005	257987	87466	57663	1.61	ABV/ABV	D
	PCB 92 (BZ)	31:39	00:00	0	457033	285769	97089	61970	1.60	ABV/ABB	
	PCB 113 (BZ)	32:10	00:00	0	594645	362041	120781	74803	1.64	ABV/AVV	
	PCB 83 (BZ)	32:42	00:00	0	387940	246699	82789	49782	1.57	ABV/ABV	
	PCB 119 (BZ)	33:18	00:00	0	650508	399446	140857	85819	1.63	ABV/ABV	M
	PCB 87 (BZ)	33:26	00:00	0	470924	284078	95496	59241	1.66	AVB/AVV	M
	PCB 85 (BZ)	34:03	00:00	0	484168	298419	100744	59780	1.62	AVV/ABV	DM
	PCB 82 (BZ)	34:33	00:00	0	406914	247129	83057	49952	1.65	ABV/ABV	
	PCB 120 (BZ)	35:22	00:00	0	687750	421475	140059	86829	1.63	AVB/ABB	D
	PCB 124 (BZ)	36:31	00:00	0	1372702	868487	289430	179447	1.58	AVV/AVV	
	PCB 106 (BZ)	36:59	00:00	0	1356626	850909	290571	183256	1.59	AVV/AVV	
	PCB 122 (BZ)	37:33	00:00	0	1262147	791745	262367	162552	1.59	AVV/AVV	D
	PCB 105 (BZ)	38:24	00:00	0	1347131	848233	268545	171469	1.59	AVV/ABV	
	PCB 127 (BZ)	39:50	00:00	0	1433207	871534	286545	181227	1.64	AVV/AVV	D
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	123	115	49	46	1.07 *	/	
	13C12-PCB 104	26:18	00:00	0	559557	351186	126976	78646	1.59	ABV/ABV	
	13C12-PCB 95	29:16	00:00	0	457283	286426	97636	63823	1.60	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

TestAmerica
Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r1.	Prep Date		SDG No	
Analysis ID	104267	Prep Exp Date		Date Received	
Analysis Date	06/10/08 14:37	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
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	13C12-PCB 101	32:12	00:00	0	448111	267283	95026	55934	1.68	AVV/ABV	
	13C12-PCB 111	34:52	00:00	0	572387	356693	125955	72298	1.60	ABV/ABV	
	13C12-PCB 123	36:51	00:00	0	1240327	758984	262222	158877	1.63	ABV/ABV	
	13C12-PCB 118	37:10	00:00	0	1292379	802351	263863	162154	1.61	AVV/AVV	
	13C12-PCB 114	37:43	00:00	0	1217154	755386	249067	153305	1.61	AVV/AVV	
	13C12-PCB 105	38:22	00:00	0	1206256	756069	245524	156979	1.60	ABV/ABV	
	13C12-PCB 127	39:49	00:00	0	1332480	812403	266105	161287	1.64	ABV/ABB	
	13C12-PCB 126	41:26	00:00	0	1292609	798309	267807	162608	1.62	ABV/AVV	
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	158	100	63	40	1.58 *	/	
	PCB 152 (BZ)	32:13	00:00	0	429902	328452	87467	68017	1.31	ABV/ABV	D
	PCB 136 (BZ)	32:44	00:00	0	440034	324945	92413	67083	1.35	ABV/ABV	D
	PCB 148 (BZ)	34:31	00:00	0	319628	255594	68187	53717	1.25	ABV/ABV	
	PCB 151 (BZ)	35:07	00:00	0	335950	259667	70922	54741	1.29	ABV/ABV	
	PCB 144 (BZ)	35:42	00:00	0	331834	258321	69434	53155	1.28	ABV/AVV	D
	PCB 143 (BZ)	36:22	00:00	0	637756	518691	127992	105833	1.23	AVV/AVV	D
	PCB 142 (BZ)	37:00	00:00	0	605938	475319	124368	98098	1.27	ABV/AVV	D
	PCB 133 (BZ)	37:48	00:00	0	636514	486203	136738	103115	1.31	ABV/ABV	
	PCB 161 (BZ)	38:34	00:00	0	889618	693142	176492	143622	1.28	ABV/ABV	
	PCB 153 (BZ)	39:04	00:00	0	807897	629100	157847	122164	1.28	AVV/AVV	
	PCB 130 (BZ)	39:41	00:00	0	613712	469496	127679	99122	1.31	AVV/ABB	
	PCB 129 (BZ)	40:23	00:00	0	577008	449621	115623	92456	1.28	ABV/ABB	
	PCB 166 (BZ)	41:32	00:00	0	898525	700004	178587	142466	1.28	AVV/AVV	
	PCB 159 (BZ)	42:32	00:00	0	910037	719226	180515	142218	1.27	AVV/AVV	
	PCB 167 (BZ)	43:18	00:00	0	962871	759088	199339	152647	1.27	ABV/AVV	
	PCB 156 (BZ)	44:26	00:00	0	950675	731543	190426	146499	1.30	ABV/ABV	D
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	123	115	49	46	1.07	/	
	13C12-PCB 155	31:57	00:00	0	443018	353951	93013	75297	1.25	ABV/ABV	
	13C12-PCB 153	39:02	00:00	0	733013	563446	149098	113505	1.30	ABV/ABV	
	13C12-PCB 138	40:18	00:00	0	675371	518763	138676	104277	1.30	ABV/ABV	M
	13C12-PCB 167	43:16	00:00	0	845989	657586	168958	133061	1.29	AVV/AVV	
	13C12-PCB 156	44:27	00:00	0	1670073	1280643	215013	168541	1.30	AVV/ABV	
	13C12-PCB 169	47:40	00:00	0	812856	625001	155988	124801	1.30	ABV/AVV	
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	120	160	48	64	0.75 *	/	
	PCB 179 (BZ)	38:04	00:00	0	587019	537424	124307	110692	1.09	ABV/ABV	D
	PCB 176 (BZ)	38:57	00:00	0	577596	547623	120971	109073	1.05	ABV/ABV	D
	PCB 178 (BZ)	40:45	00:00	0	422562	411147	84208	81164	1.03	ABV/ABV	
	PCB 175 (BZ)	41:23	00:00	0	449399	421640	90025	82106	1.07	ABV/ABV	
	PCB 183 (BZ)	42:16	00:00	0	498205	459839	99970	94223	1.08	ABV/ABV	
	PCB 177 (BZ)	42:57	00:00	0	410211	377269	79458	74339	1.09	AVV/AVB	D
	PCB 171 (BZ)	43:35	00:00	0	445540	414311	90576	84493	1.08	AVV/ABB	

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

TestAmerica
Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r1.	Prep Date		SDG No	
Analysis ID	104267	Prep Exp Date		Date Received	
Analysis Date	06/10/08 14:37	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

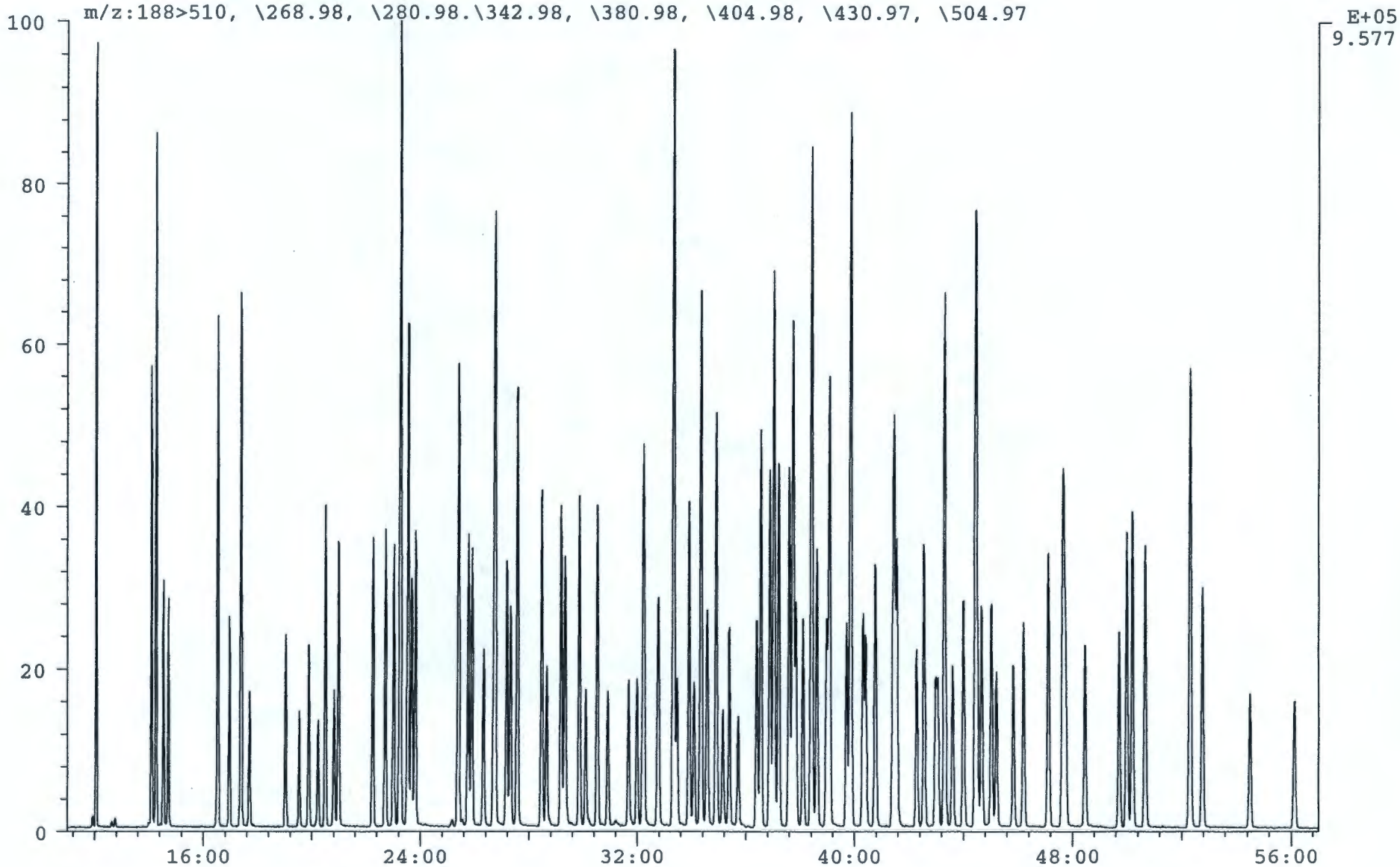
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	PCB 172 (BZ)	45:11	00:00	0	422888	401579	86137	78191	1.05	AVV/AVV	
	PCB 191 (BZ)	46:12	00:00	0	593402	560393	117065	113221	1.06	ABV/ABV	
	PCB 170 (BZ)	47:06	00:00	0	443820	408553	85769	84442	1.09	AVV/ABV	D
	PCB 190 (BZ)	47:37	00:00	0	606885	575880	115354	106789	1.05	AVV/ABV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	133	100	53	40	1.33 *	/	
	13C12-PCB 188	37:41	00:00	0	565442	533565	116910	107590	1.06	ABV/ABV	
	13C12-PCB 178	40:44	00:00	0	370042	357586	75688	72045	1.03	ABV/AVV	
	13C12-PCB 180	45:48	00:00	0	477185	436107	94551	87322	1.09	ABV/ABV	
	13C12-PCB 170	47:04	00:00	0	403632	376832	75592	76291	1.07	ABV/ABV	
	13C12-PCB 189	50:10	00:00	0	968418	915397	190330	180686	1.06	ABV/ABV	
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	140	150	56	60	0.93	/	
	PCB 200 (BZ)/201 (IUPAC	44:00	00:00	0	620731	675901	119002	131910	0.92	ABV/ABV	
	PCB 204 (BZ)	44:39	00:00	0	586288	643893	116506	129557	0.91	ABV/ABV	
	PCB 199 (BZ)/200 (IUPAC	45:00	00:00	0	615032	666010	116070	129402	0.92	AVV/AVV	D
	PCB 198 (BZ)	47:44	00:00	0	458943	489383	87701	93090	0.94	ABV/ABV	
	PCB 196 (BZ)	48:27	00:00	0	463916	514942	89794	102561	0.90	ABV/AVV	
	PCB 195 (BZ)	49:59	00:00	0	775806	841587	157259	166122	0.92	AVV/AVV	D
	PCB 194 (BZ)	52:18	00:00	0	836348	923751	160979	186026	0.91	ABB/ABV	
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	143	128	57	51	1.12 *	/	
	13C12-PCB 202	43:03	00:00	0	384717	419458	75288	82770	0.92	ABB/ABV	
	13C12-PCB 194	52:16	00:00	0	497319	539686	94722	102523	0.92	ABV/ABV	
	13C12-PCB 205	52:44	00:00	0	669759	744490	130719	141465	0.90	AVV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	103	160	41	64	0.64 *	/	
	PCB 207 (BZ)	50:39	00:00	0	681543	868911	128920	175151	0.78	ABV/ABV	
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	138	133	55	53	1.04 *	/	
	13C12-PCB 208	49:42	00:00	0	467692	591726	96334	115527	0.79	ABV/ABV	
	13C12-PCB 206	54:28	00:00	0	327171	413270	63998	77303	0.79	AVV/ABV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	73	73	29	29	1.00 *	/	
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	108	125	43	50	0.86 *	/	
	13C12-PCB 209	56:06	00:00	0	305872	432082	52051	73937	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

CHRO: a0806m1r1 10-Jun-08 Elapse: 56:11 2555
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 14:37:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
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

Int DCG 6-10-08
Calc DCG 6-25-08



-4.3 V SCAN AUTOTUNE TUNE R = 10 106 98 798 uV

p 3.58 A -19.1 V

1.00 mA 2717 1227 1999 3304

56.5 V d s l x y

270 C s s s s s

271 C 2717 1439 2001 3248

0.82 mA -19.0 V

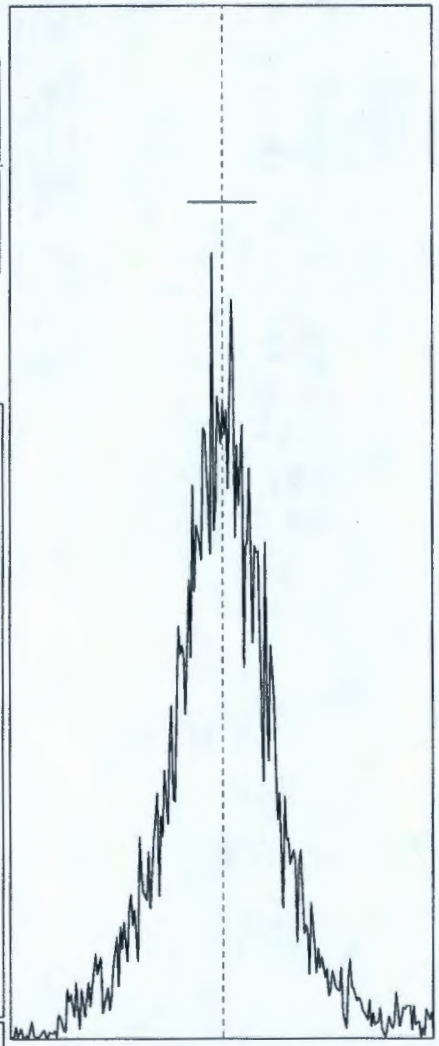
EI POS u electric

U(a) 4777 V U(esa) 763.8 V

Entr. Slit	(ENS)	460.0	
Exit Slit	(EXS)	146.0	
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)	2.220	%
Multiplier	(EMULT)	1.52	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

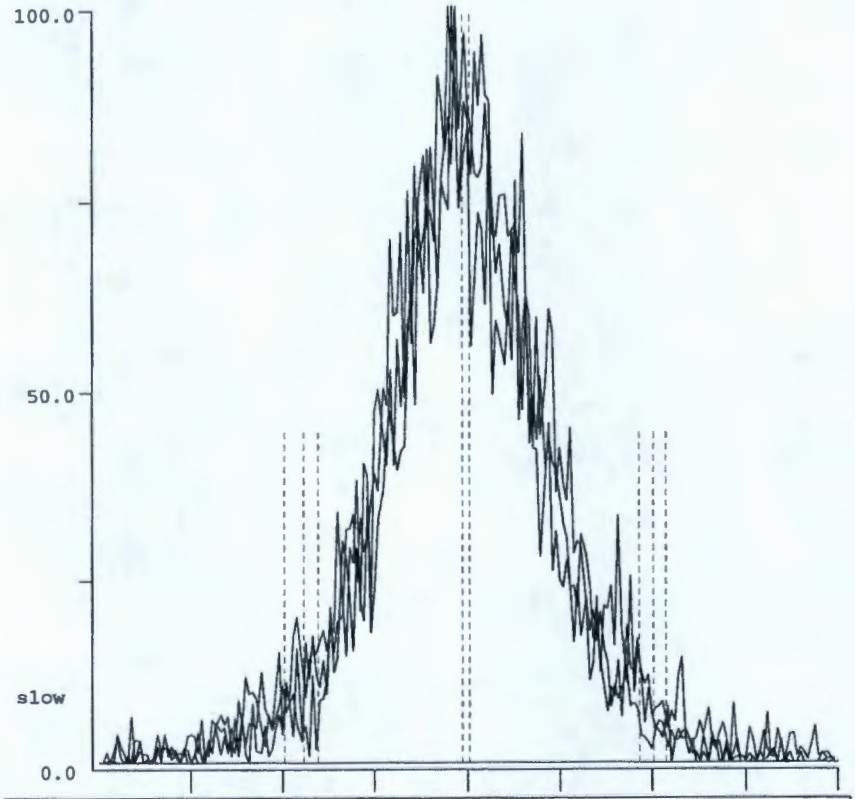


192.970 192.989 193.00

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

TUNE: _

Peak Register Display Copy result to ULIST



REG 1/2: 230.985159 REG 1/3: 280.982481 REG 2/3: 280.983050

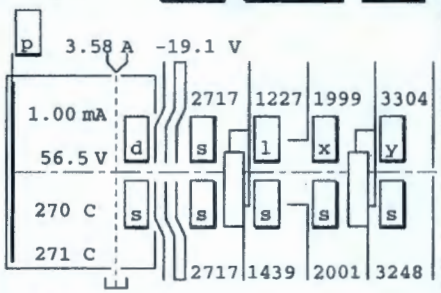
MASS :	192.98894	230.98531	280.98266
REF MASS :	192.98882	230.98563	280.98243
PEAK WIDTH [ppm]:	102.94609	90.95535	91.02474

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME

PEAK:

-4.3 V SCAN AUTOTUNE TUNE R = 10 106 98 798 uV



EI POS electric

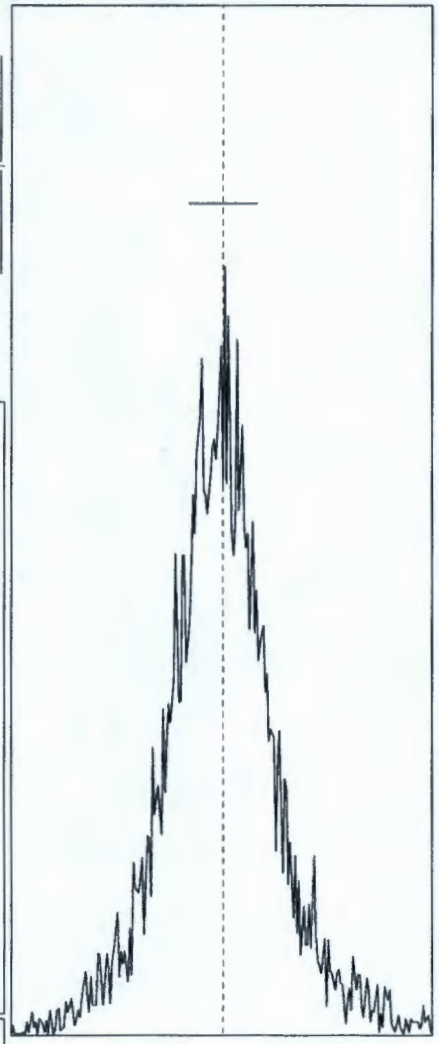
U(a) 4777 V u U(esa) 763.8 V

Entr. Slit	(ENS)	460.0	
Exit Slit	(EXS)	146.0	
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)	2.220	%
Multiplier	(EMULT)	1.52	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:

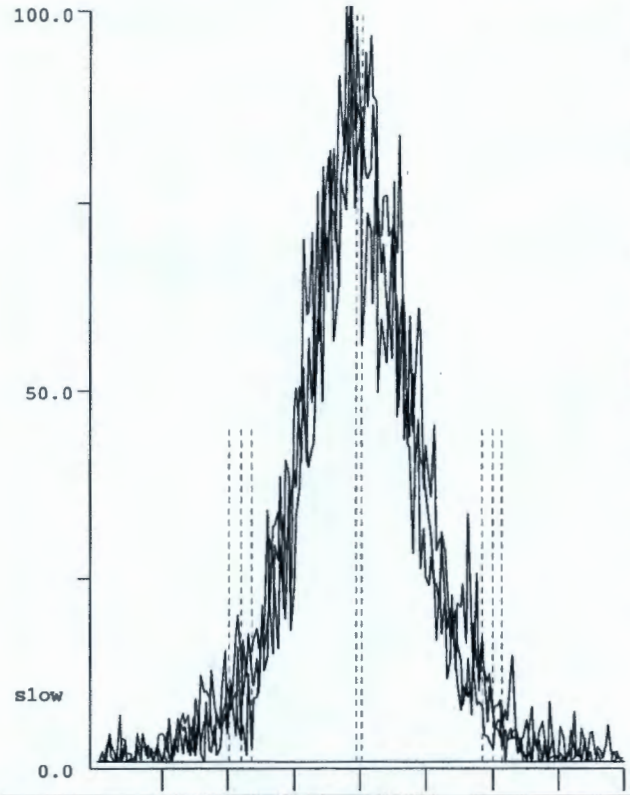


192.970 192.989 193.00

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

Diagnostic Display

Copy result to ULIST



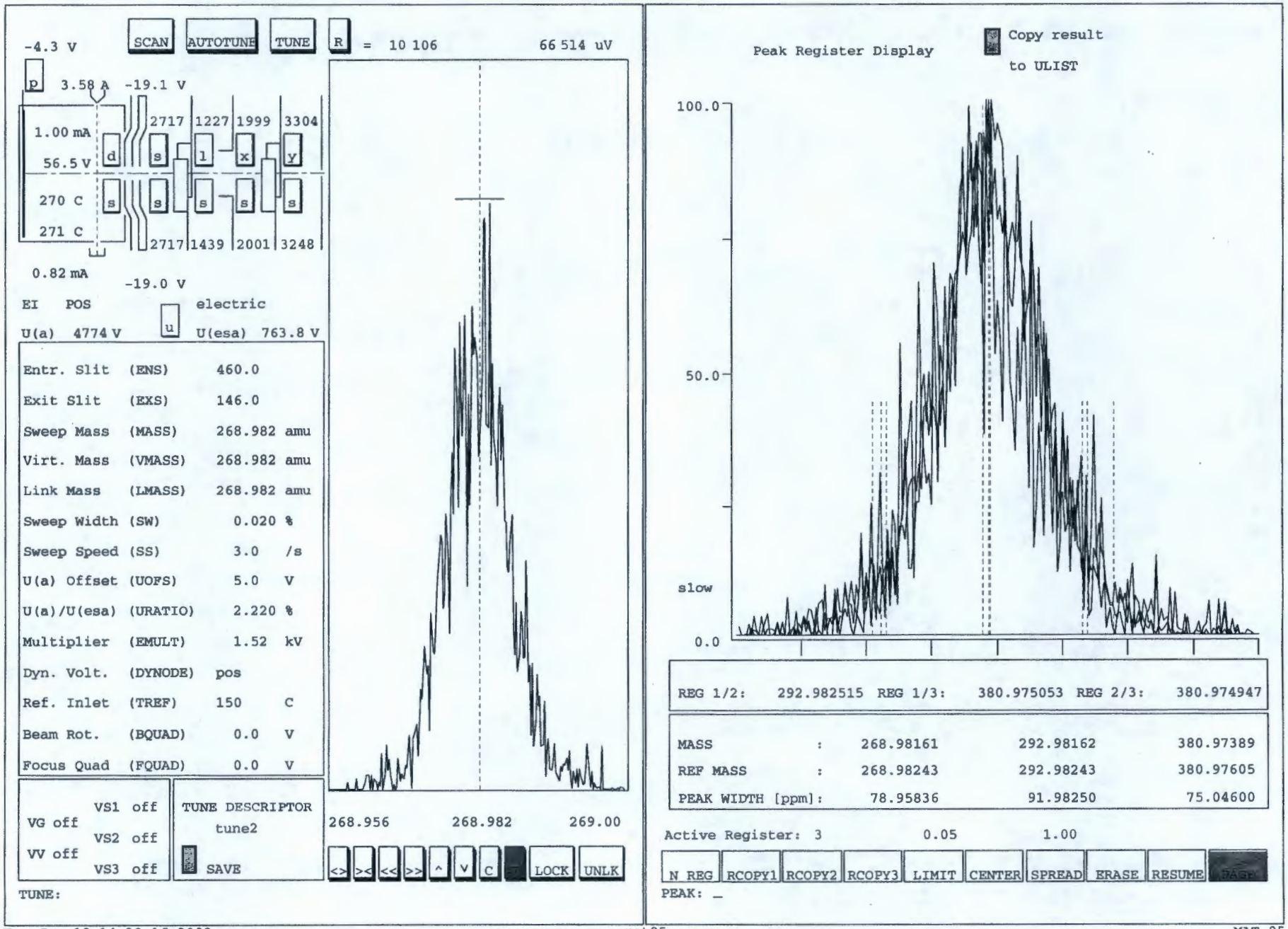
RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.1968836	1.4559521	1.2164525
PC+DELTA	1.1968836	1.4559521	1.2164525
PC+DELTA/RM	0.9999980	1.0000002	1.0000022
REF MASS	1.1968860	1.4559519	1.2164499

R1	pm	192.98894
	rm	192.98882
	fm	192.96953
	lm	193.00810
	pc	7969171.06
	pl	7969570.77
	pr	7968750.37
	bl	0.00
	v	90264.00
R2	pm	230.98531
	rm	230.98563
	fm	230.96253
	lm	231.00870
	pc	6658267.29
	pl	6658554.65
	pr	6657949.04
	bl	0.00
	v	124871.00
R3	pm	280.98266
	rm	280.98243
	fm	280.95432
	lm	281.01053
	pc	5473511.81
	pl	5473738.24
	pr	5473240.01
	bl	0.00
	v	60961.00

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME

PEAK: _



Tue Jun 10 14:30:16 2008 mat95 MAT 95

1868

-4.3 V SCAN AUTOTUNE TUNE R = 10 106 66 514 uV

p 3.58 A -19.1 V

1.00 mA 2717 1227 1999 3304

56.5 V d s l x y

270 C s s s s s

271 C 2717 1439 2001 3248

0.86 mA -19.0 V

EI POS electric

U(a) 4777 V u U(esa) 763.8 V

Entr. Slit	(ENS)	460.0	
Exit Slit	(EXS)	146.0	
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)	2.220	%
Multiplier	(EMULT)	1.52	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

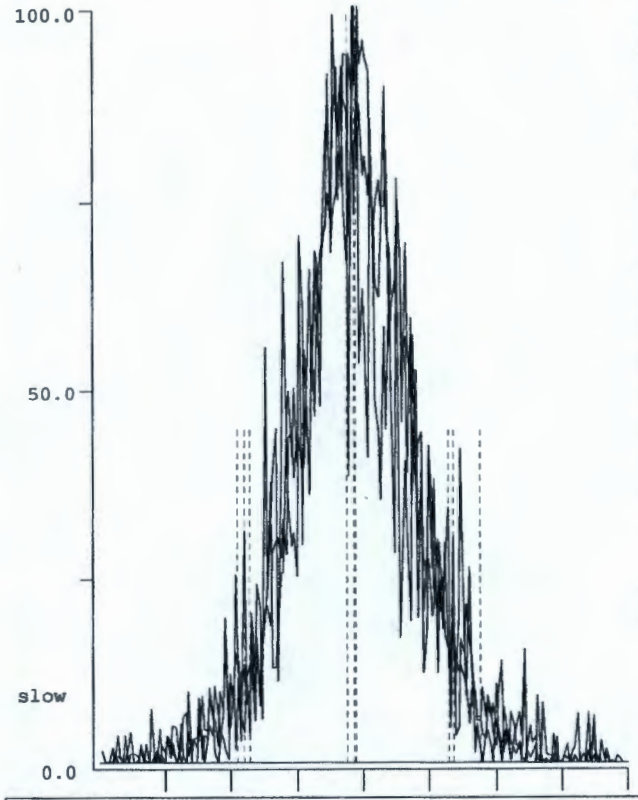
TUNE DESCRIPTOR tune2 SAVE

268.956 268.982 269.00

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

TUNE:

Diagnostic Display Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0892255	1.4163566	1.3003338
PC+DELTA	1.0892255	1.4163566	1.3003338
PC+DELTA/RM	1.0000003	0.9999974	0.9999971
REF MASS	1.0892252	1.4163603	1.3003375

REG 1	pm	268.98161
	rm	268.98243
	fm	268.95554
	lm	269.00930
	pc	7969200.35
	pl	7969530.94
	pr	7968901.71
	bl	0.00
	v	62315.00
REG 2	pm	292.98162
	rm	292.98243
	fm	292.95315
	lm	293.01173
	pc	7316391.90
	pl	7316718.96
	pr	7316045.98
	bl	0.00
	v	150272.00
REG 3	pm	380.97389
	rm	380.97605
	fm	380.93796
	lm	381.01420
	pc	5626549.25
	pl	5626756.27
	pr	5626334.03
	bl	0.00
	v	22860.00

Active Register: 3 0.05 1.00

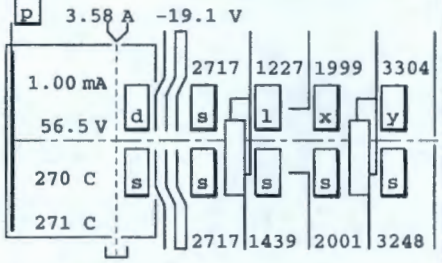
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME

PEAK: _

Tue Jun 10 14:30:25 2008 mat95 MAT 95

1869

-4.3 V SCAN AUTOTUNE TUNE R = 10 106 79 439 uV



EI POS electric

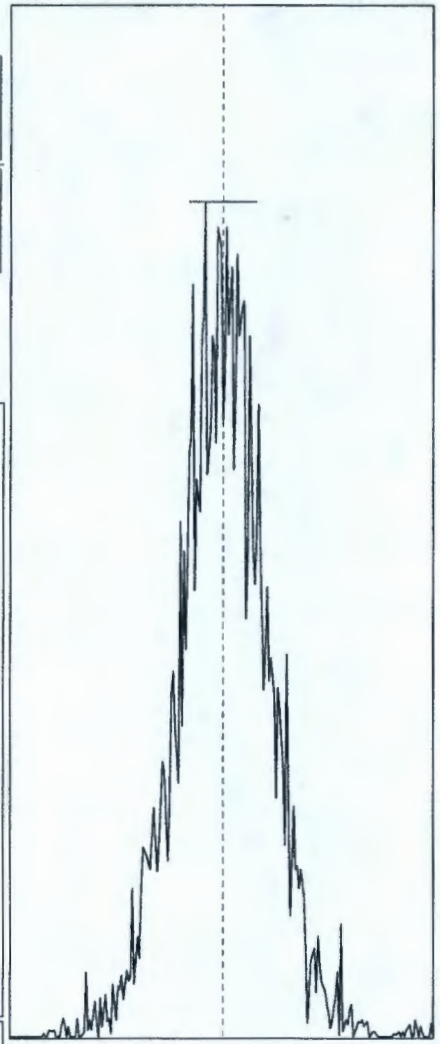
U(a) 4777 V u U(esa) 763.8 V

Entr. Slit	(ENS)	460.0	
Exit Slit	(EXS)	146.0	
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)	2.220	%
Multiplier	(EMULT)	1.52	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

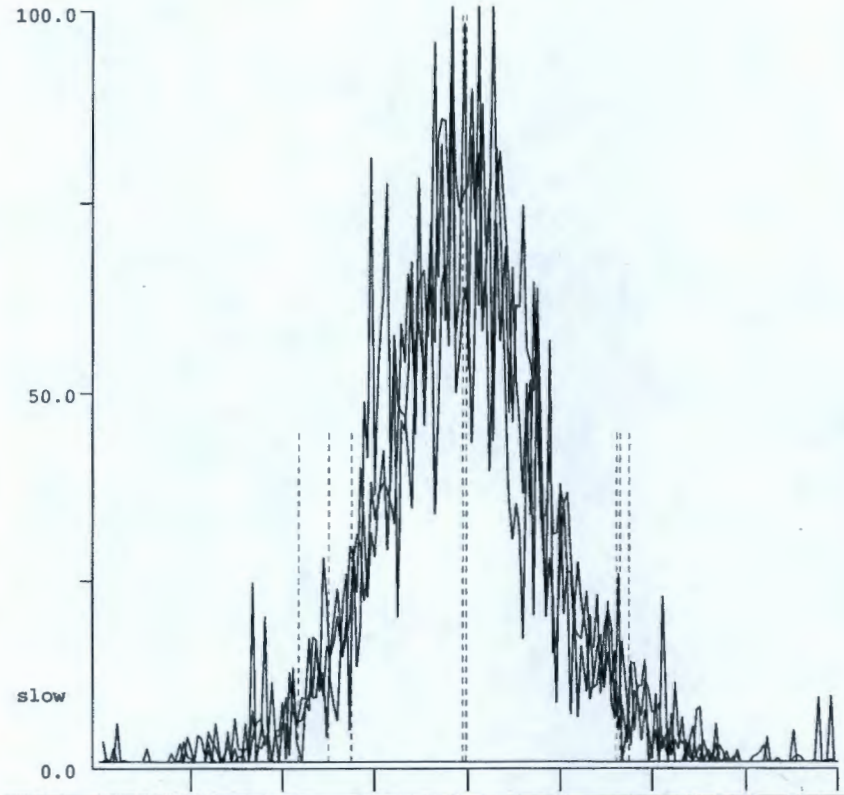
SAVE



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

TUNE: _

Peak Register Display Copy result to ULIST



REG 1/2:	380.976019	REG 1/3:	430.972504	REG 2/3:	430.972533

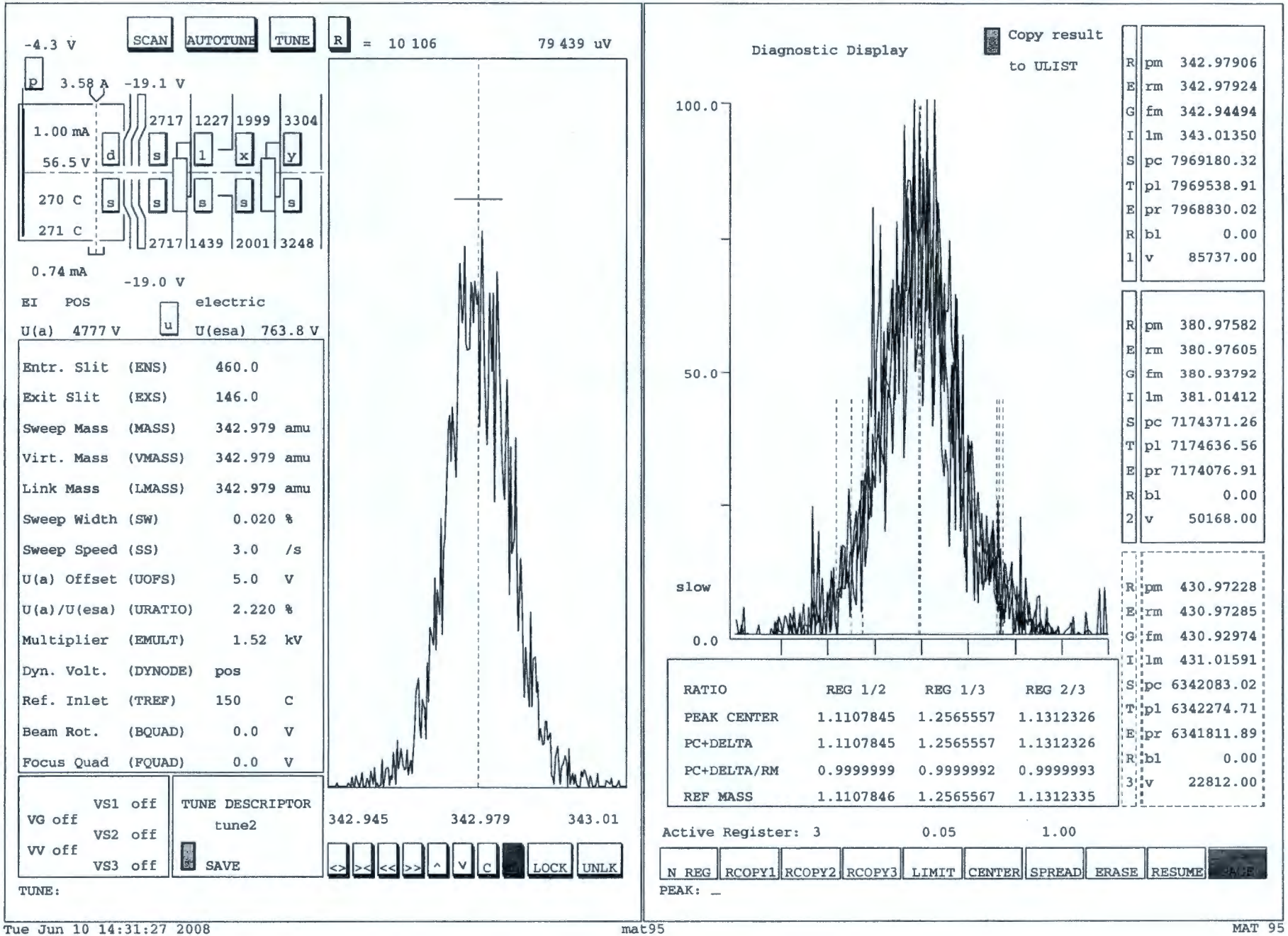
MASS	:	342.97906	380.97582	430.97228
REF MASS	:	342.97924	380.97605	430.97285
PEAK WIDTH [ppm]:		88.95331	78.00684	72.97602

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME

PEAK:

Tue Jun 10 14:31:17 2008 mat95 MAT 95


SCAN
AUTOTUNE
TUNE
R = 10 106
79 439 uV
-4.3 V
p
3.58 A
-19.1 V
1.00 mA
56.5 V
2717 1227 1999 3304
d s l x y
270 C
271 C
s s s s s
2717 1439 2001 3248
0.74 mA
-19.0 V
EI POS
u
electric
U(a) 4777 V
U(esa) 763.8 V
Entr. Slit (ENS) 460.0
Exit Slit (EXS) 146.0
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) 2.220 %
Multiplier (EMULT) 1.52 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
RATIO REG 1/2 REG 1/3 REG 2/3
PEAK CENTER 1.1107845 1.2565557 1.1312326
PC+DELTA 1.1107845 1.2565557 1.1312326
PC+DELTA/RM 0.9999999 0.9999992 0.9999993
REF MASS 1.1107846 1.2565567 1.1312335
REG 1 pm 342.97906 rm 342.97924 fm 342.94494 lm 343.01350 pc 7969180.32 pl 7969538.91 pr 7968830.02 bl 0.00 v 85737.00
REG 2 pm 380.97582 rm 380.97605 fm 380.93792 lm 381.01412 pc 7174371.26 pl 7174636.56 pr 7174076.91 bl 0.00 v 50168.00
REG 3 pm 430.97228 rm 430.97285 fm 430.92974 lm 431.01591 pc 6342083.02 pl 6342274.71 pr 6341811.89 bl 0.00 v 22812.00
Active Register: 3 0.05 1.00
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME
PEAK: _
Tue Jun 10 14:31:27 2008
mat95
MAT 95

-4.3 V SCAN AUTOTUNE TUNE R = 10 106 31 635 uV

p 3.58 A -19.1 V

1.00 mA 2717 1227 1999 3304

56.5 V d s l x y

270 C s s s s s

271 C 2717 1439 2001 3248

0.86 mA -19.0 V

EI POS u electric

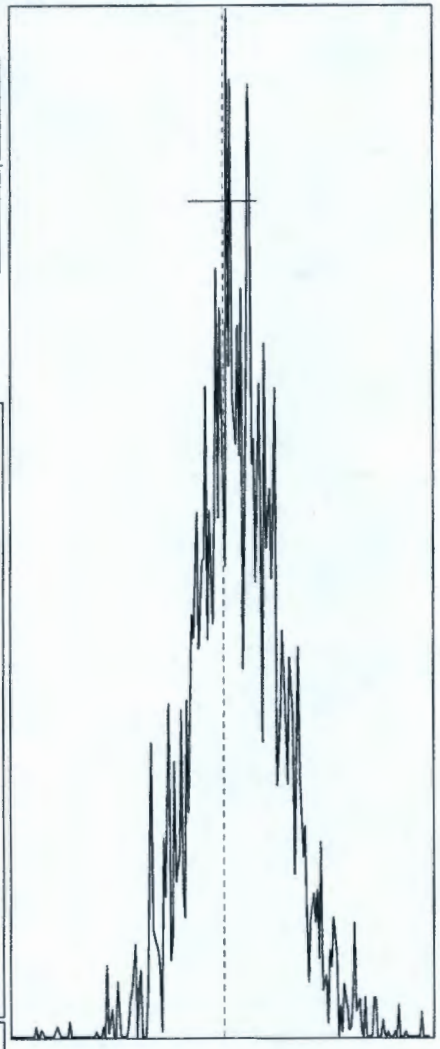
U(a) 4772 V U(esa) 763.8 V

Entr. Slit	(ENS)	460.0	
Exit Slit	(EXS)	146.0	
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)	2.220	%
Multiplier	(EMULT)	1.52	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: _

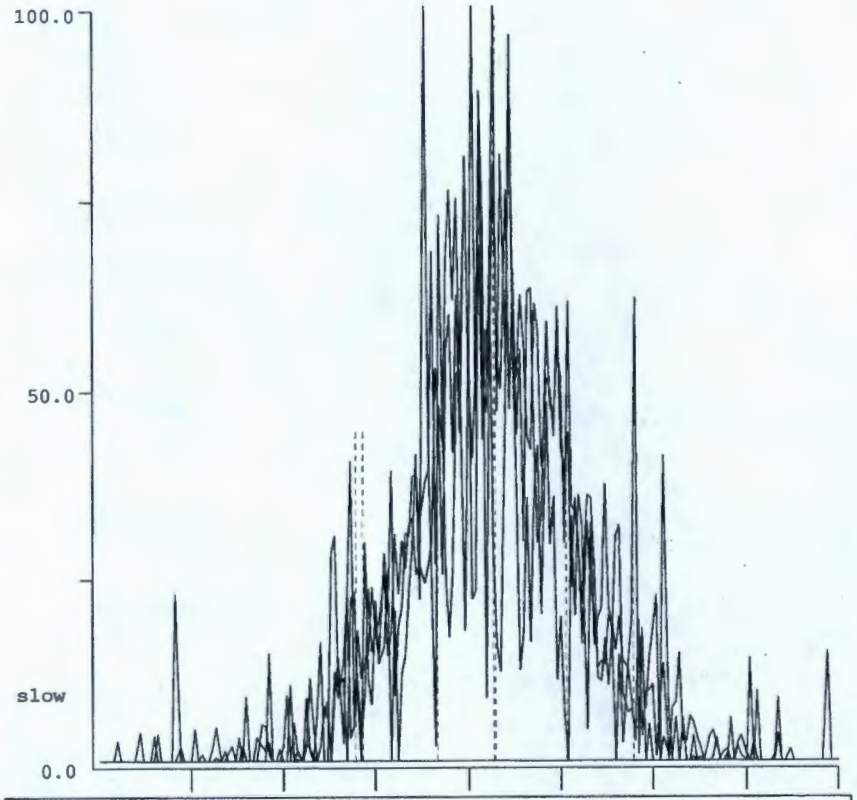


404.936 404.976 405.01

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

Peak Register Display

Copy result to ULIST



REG 1/2: 442.972927 REG 1/3: 530.966608 REG 2/3: 530.966517

MASS	:	404.97882	442.97596	530.97024
REF MASS	:	404.97604	442.97285	530.96646
PEAK WIDTH [ppm]	:	74.96121	72.99445	35.01056

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK:

Tue Jun 10 14:32:05 2008 mat95 MAT 95

1872

-4.3 V

SCAN | AUTOTUNE | TUNE | R = 10 106 | 31 635 uV

p 3.58 A -19.1 V

1.00 mA
56.5 V
270 C
271 C

d s s s 1 x y

2717 1227 1999 3304

2717 1439 2001 3248

0.82 mA -19.0 V

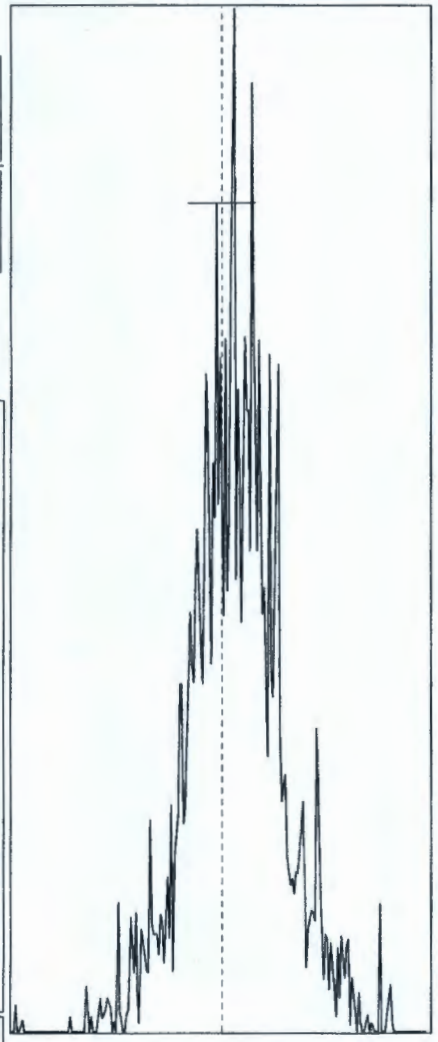
EI POS electric

U(a) 4777 V u U(esa) 763.8 V

Entr. Slit	(ENS)	460.0	
Exit Slit	(EXS)	146.0	
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)	2.220	%
Multiplier	(EMULT)	1.52	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

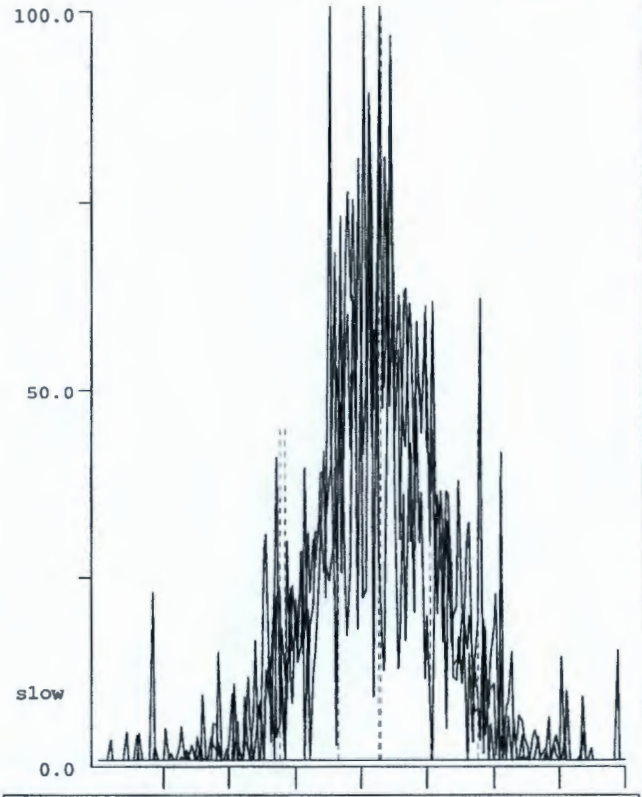


<> >< << >> ^ v C LOCK UNLK

TUNE:

Diagnostic Display

Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0938250	1.3111062	1.1986435
PC+DELTA	1.0938250	1.3111062	1.1986435
PC+DELTA/RM	1.0000002	1.0000003	1.0000001
REF MASS	1.0938248	1.3111059	1.1986434

R	pm	404.97882
E	rm	404.97604
G	fm	404.93555
I	lm	405.01651
S	pc	7969121.59
T	pl	7969419.43
E	pr	7968822.06
R	bl	0.00
1	v	42508.00

R	pm	442.97596
E	rm	442.97285
G	fm	442.92856
I	lm	443.01715
S	pc	7285554.37
T	pl	7285813.12
E	pr	7285281.32
R	bl	0.00
2	v	37988.00

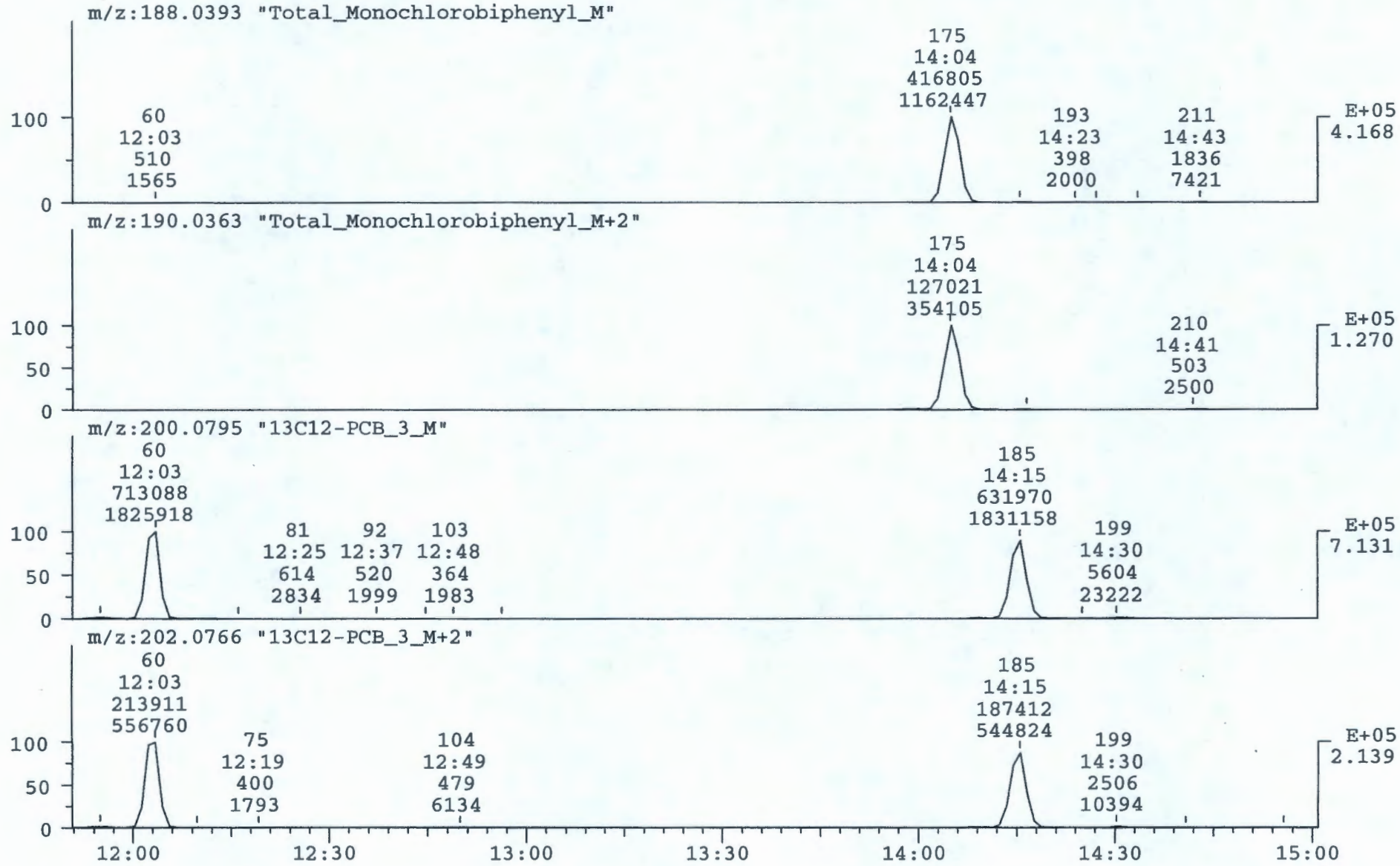
R	pm	530.97024
E	rm	530.96646
G	fm	530.91332
I	lm	531.01954
S	pc	6078166.30
T	pl	6078261.68
E	pr	6078048.88
R	bl	0.00
3	v	10649.00

Active Register: 3 0.05 1.00

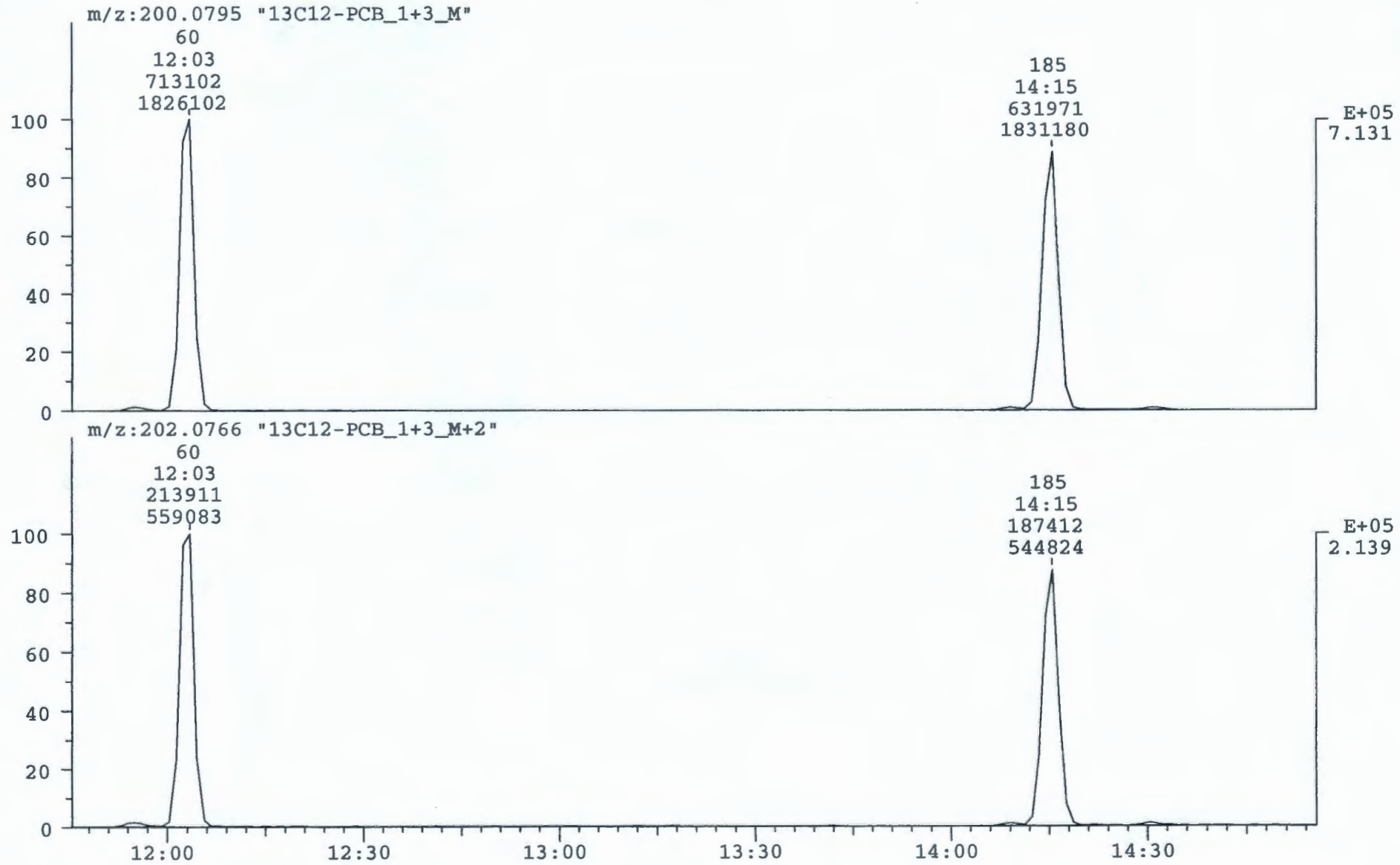
N REG | RCOPY1 | RCOPY2 | RCOPY3 | LIMIT | CENTER | SPREAD | ERASE | RESUME

PEAK: _

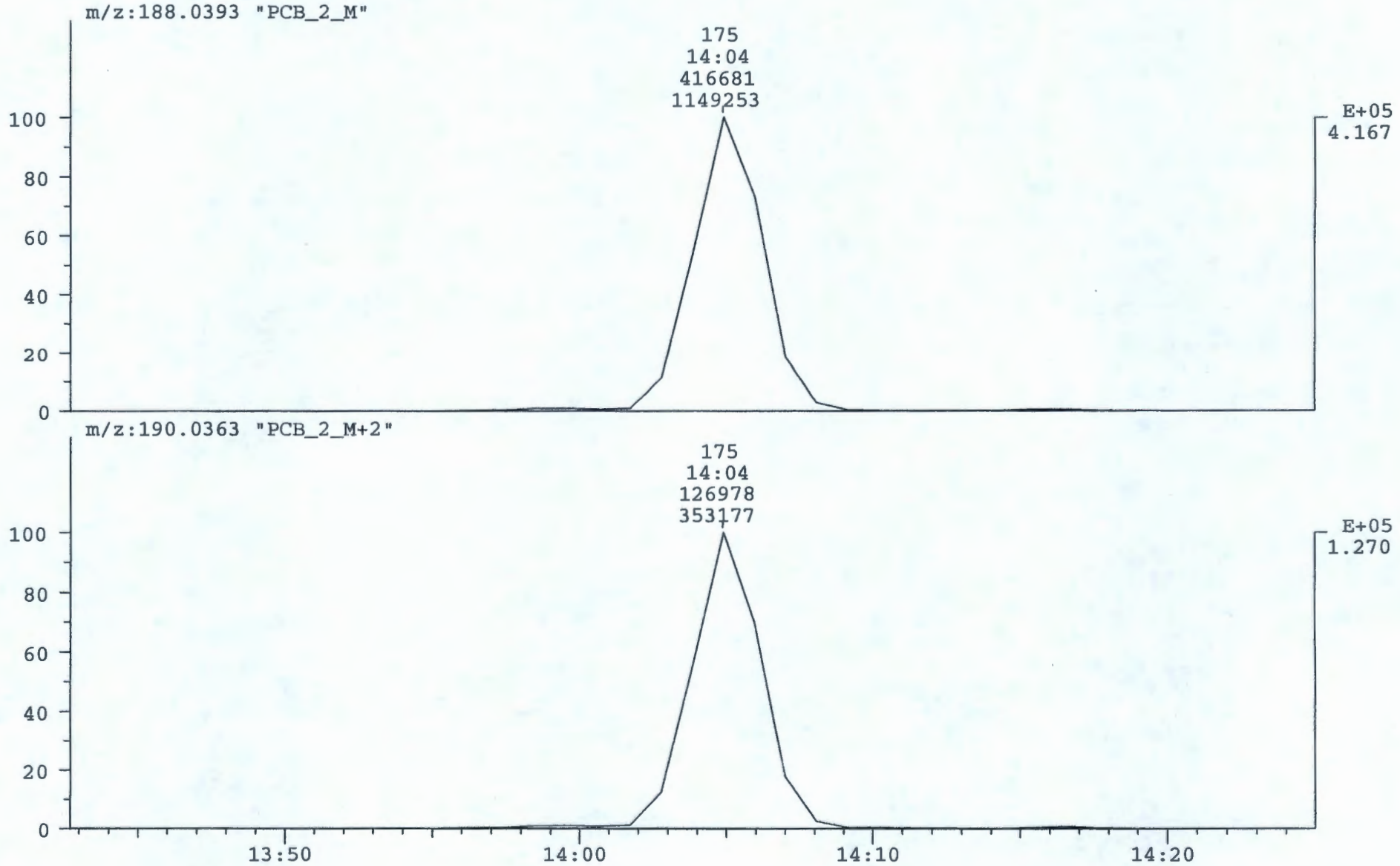
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  13:25.8      138
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC      Vial  11
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
```



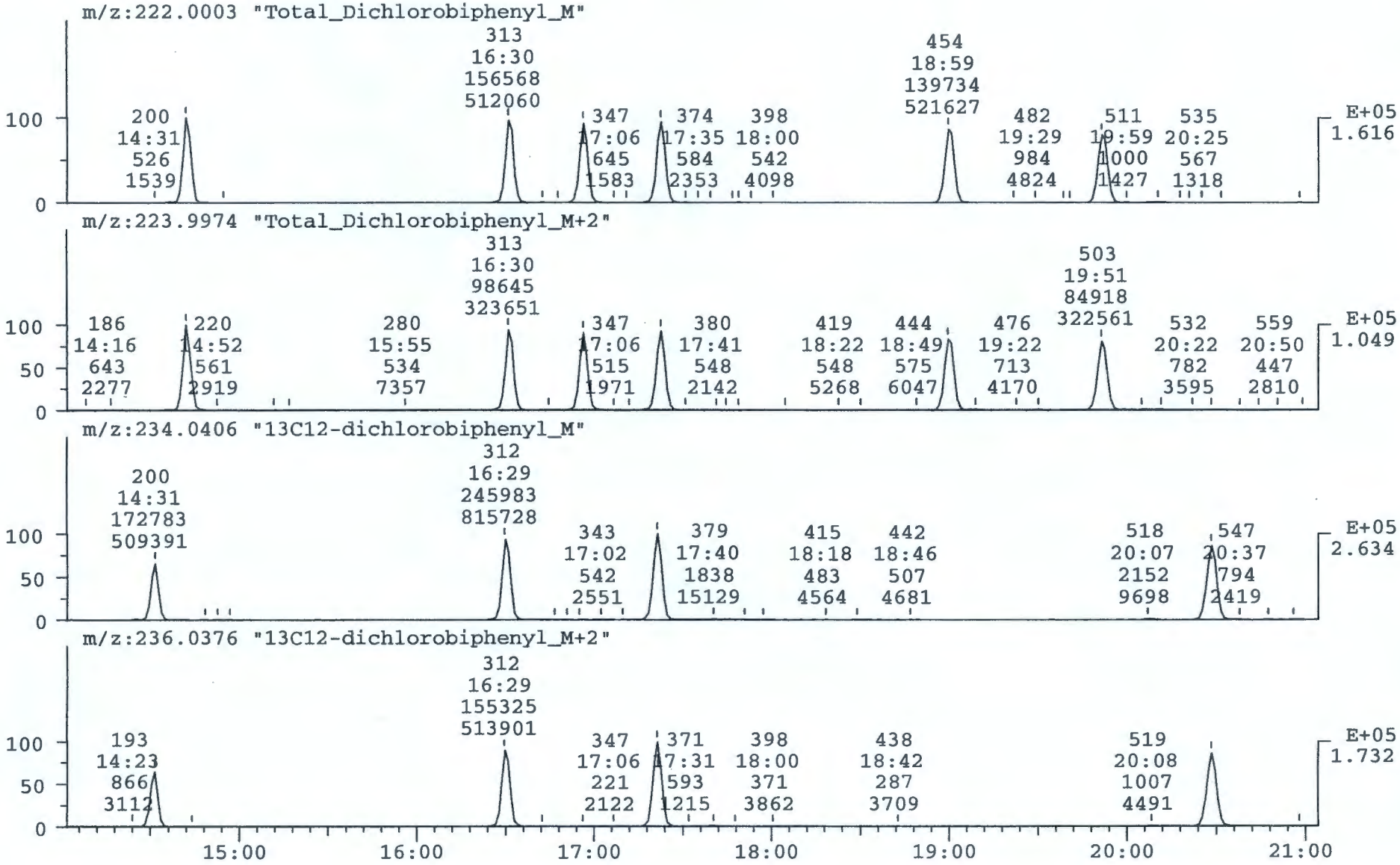
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  13:20.5      133
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   43 > 223              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



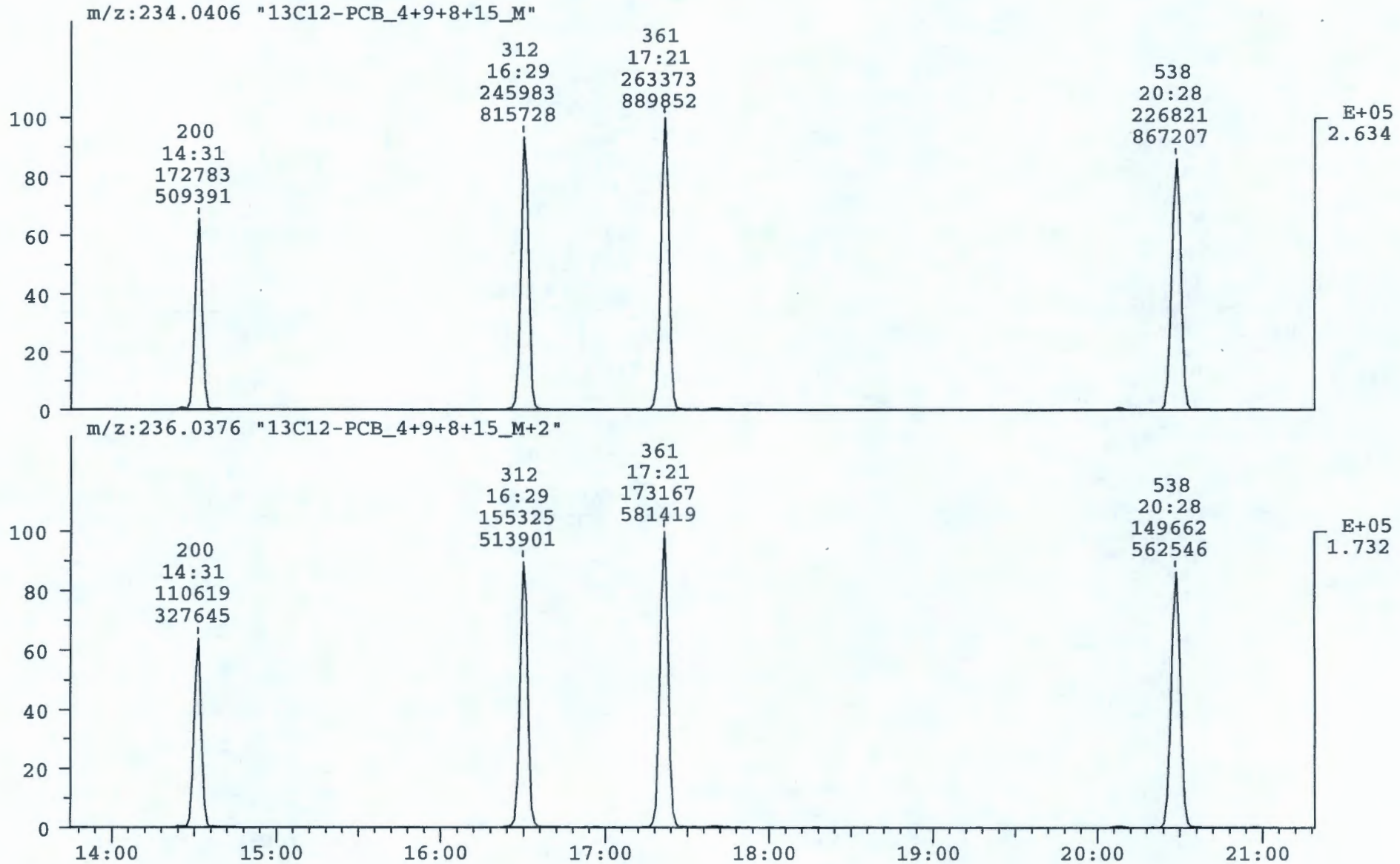
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  14:03.8      174
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  11
Peak:  100.00  ppm     Label wndw:   154 > 194             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



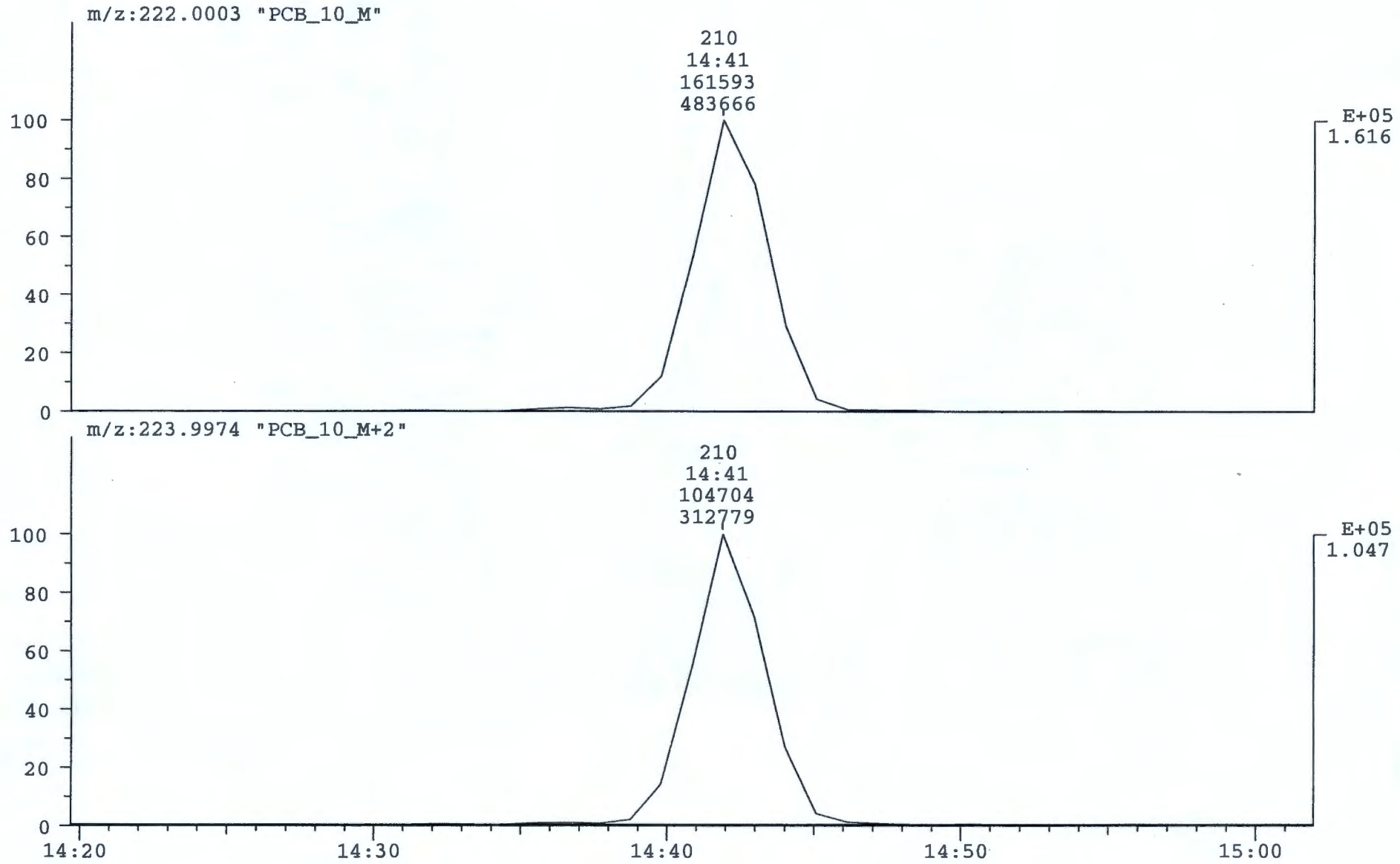
CHRO: a0806m1r1 10-Jun-08 Elapse: 17:33.9 372
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 14:37:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 172 > 572 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



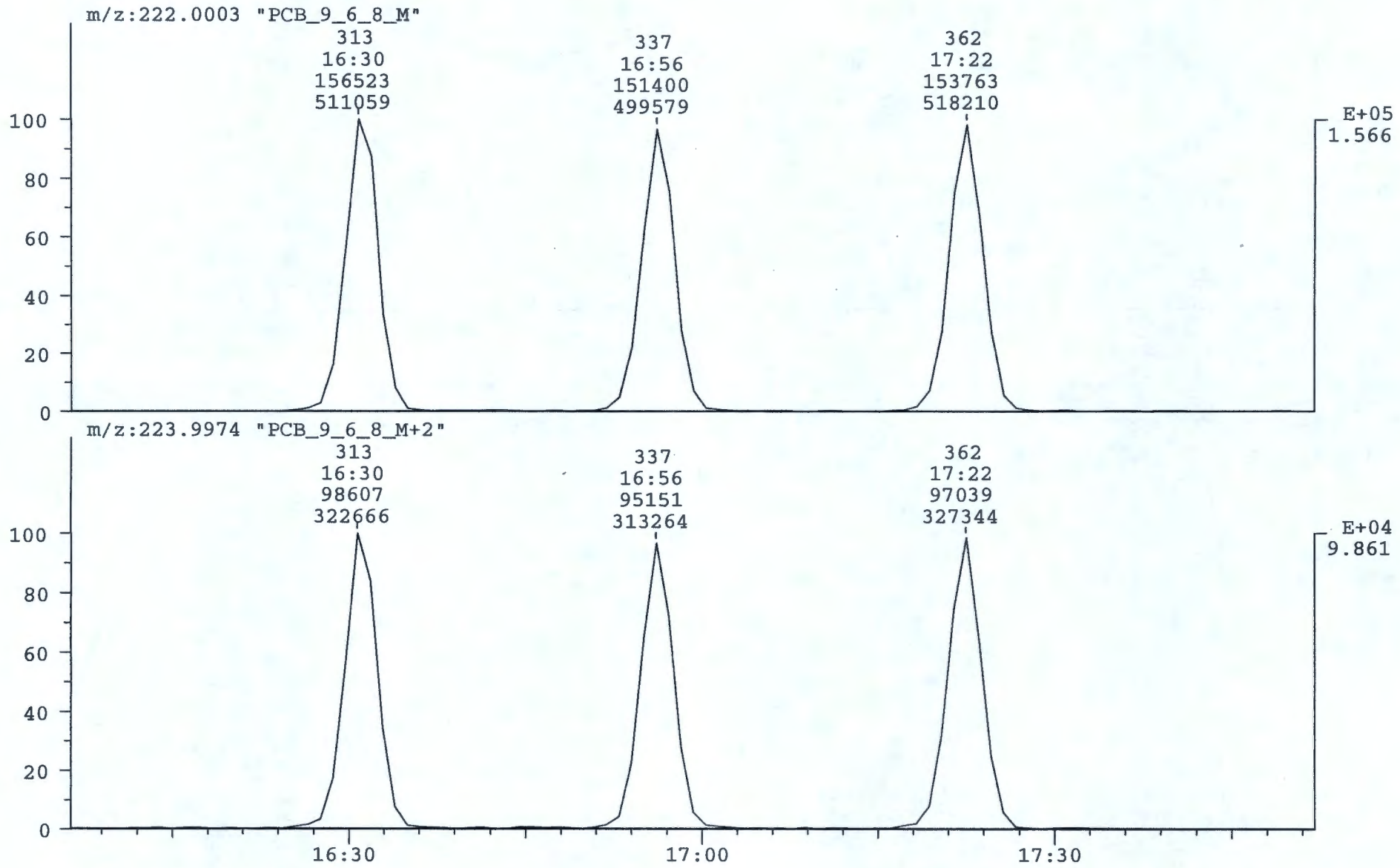
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  17:26.7      366
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   156 > 586             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



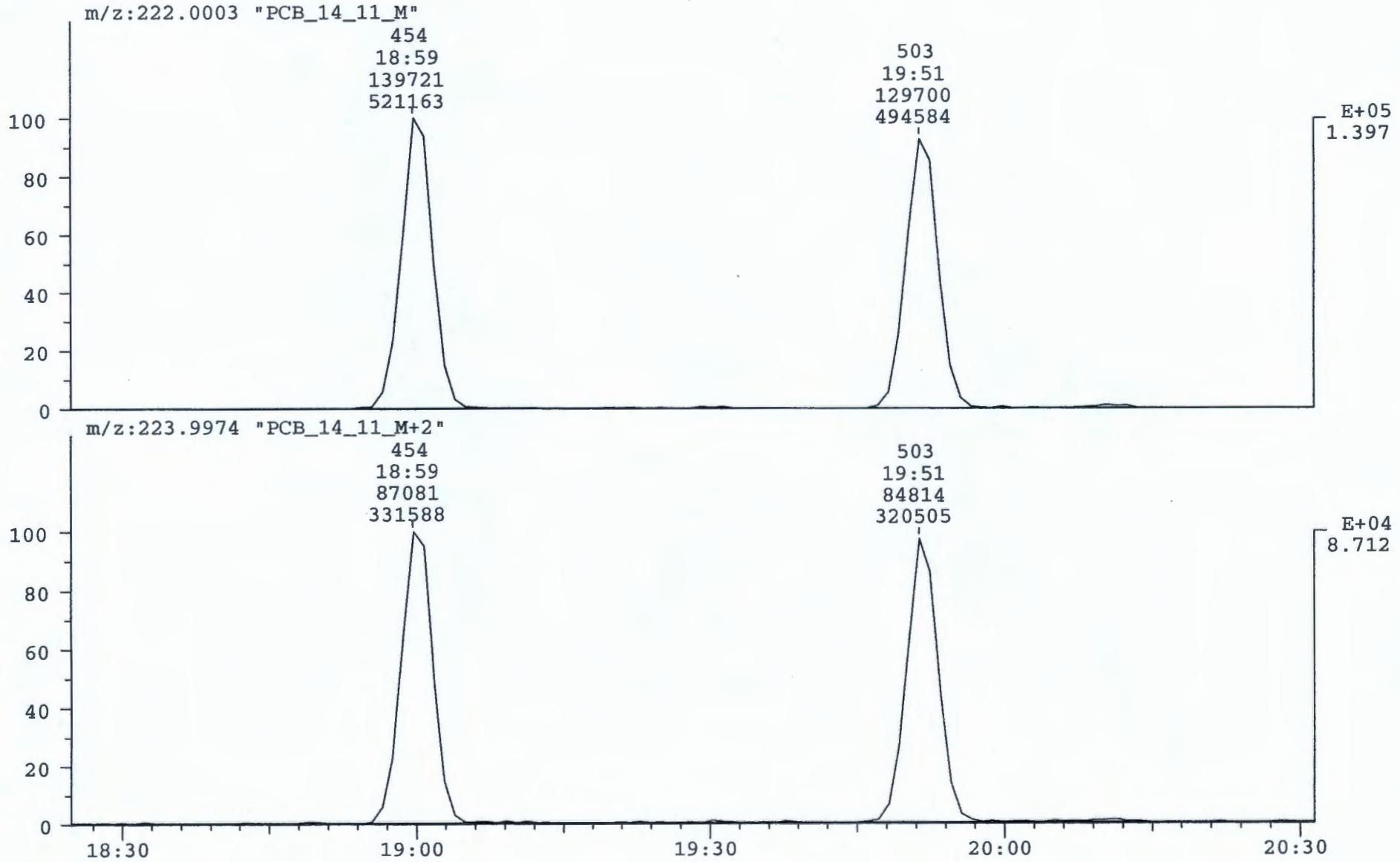
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  14:40.8      209
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   189 > 229             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



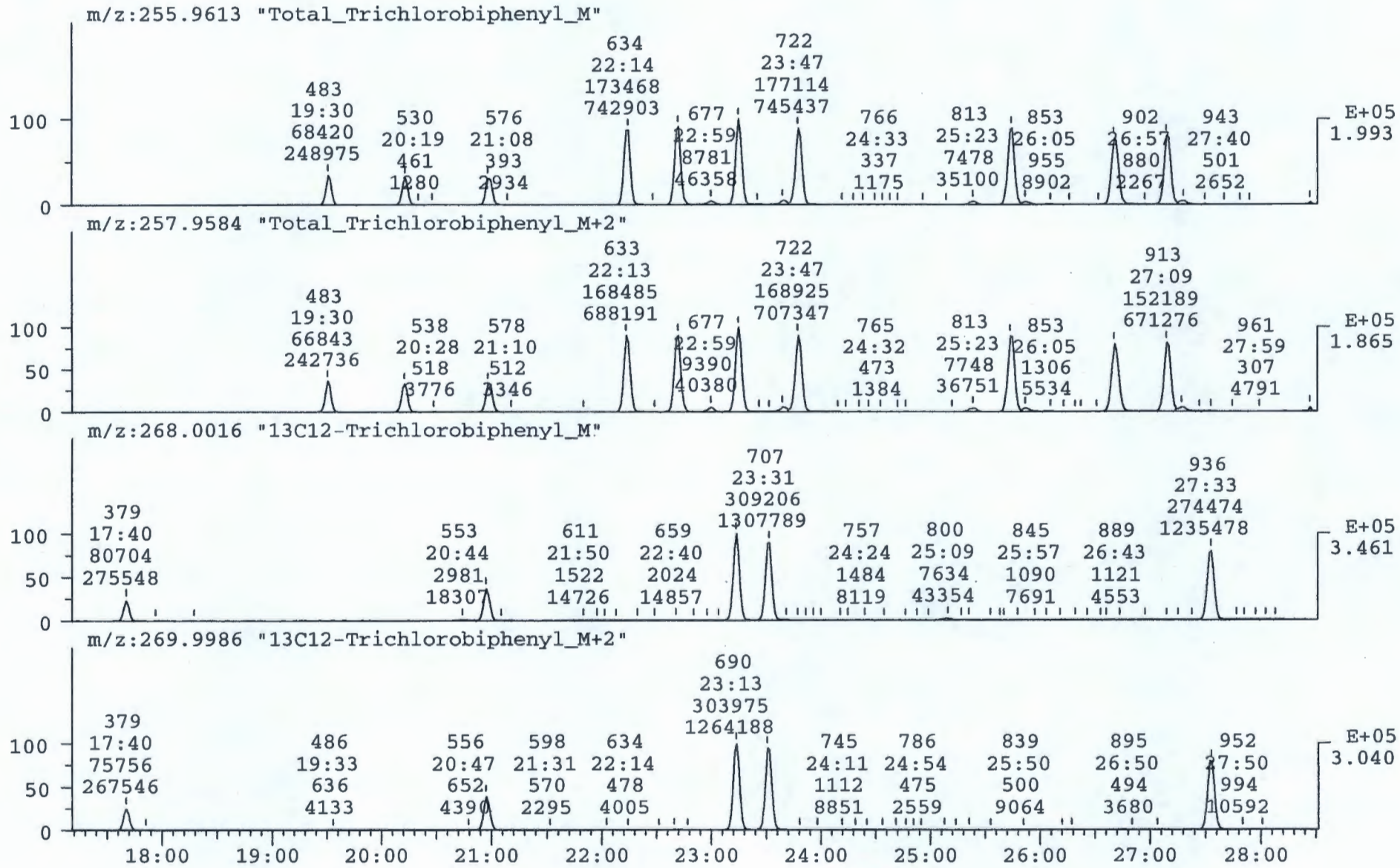
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  16:59.2      340
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   290 > 390            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



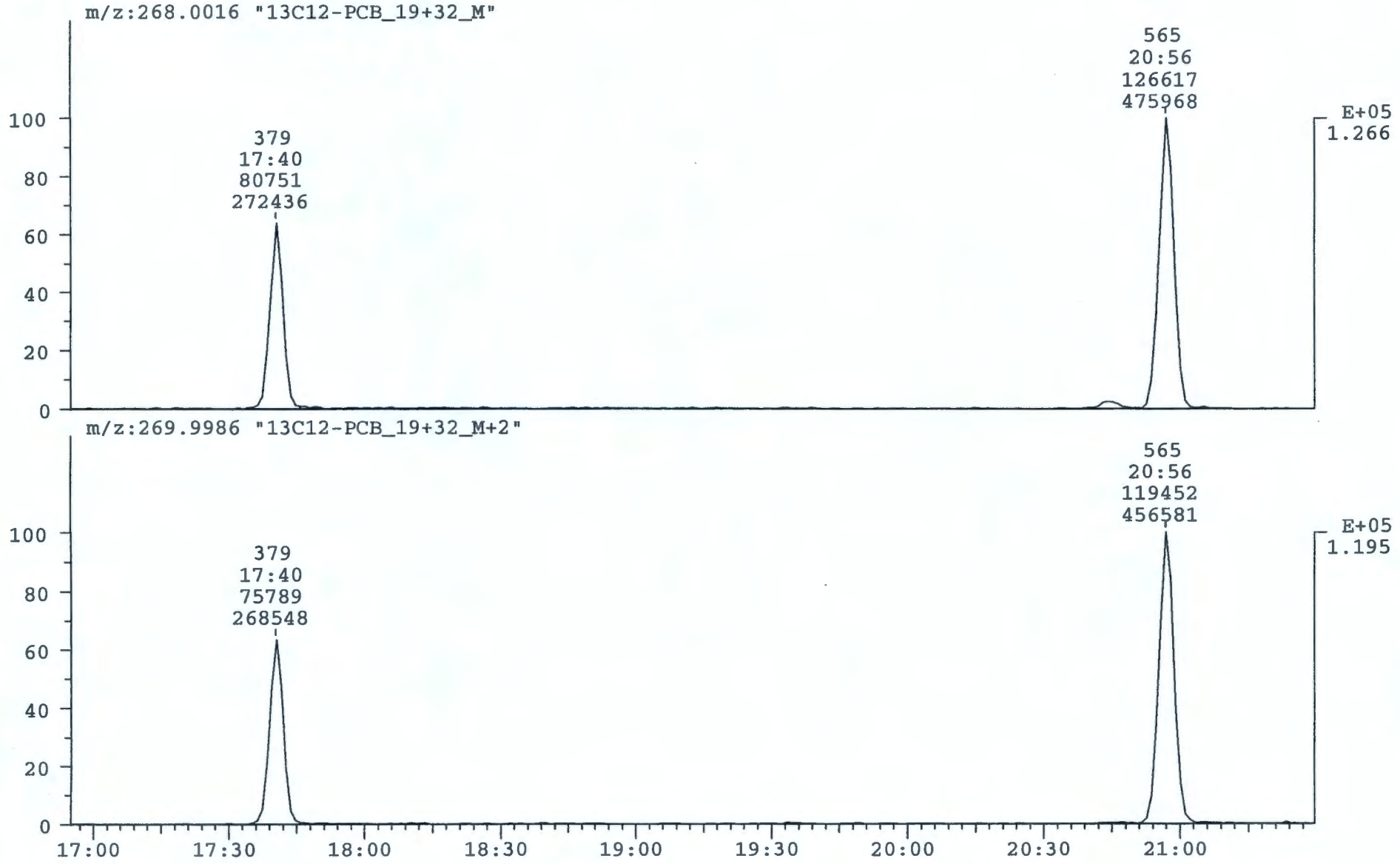
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  19:28.1      481
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   421 > 541            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



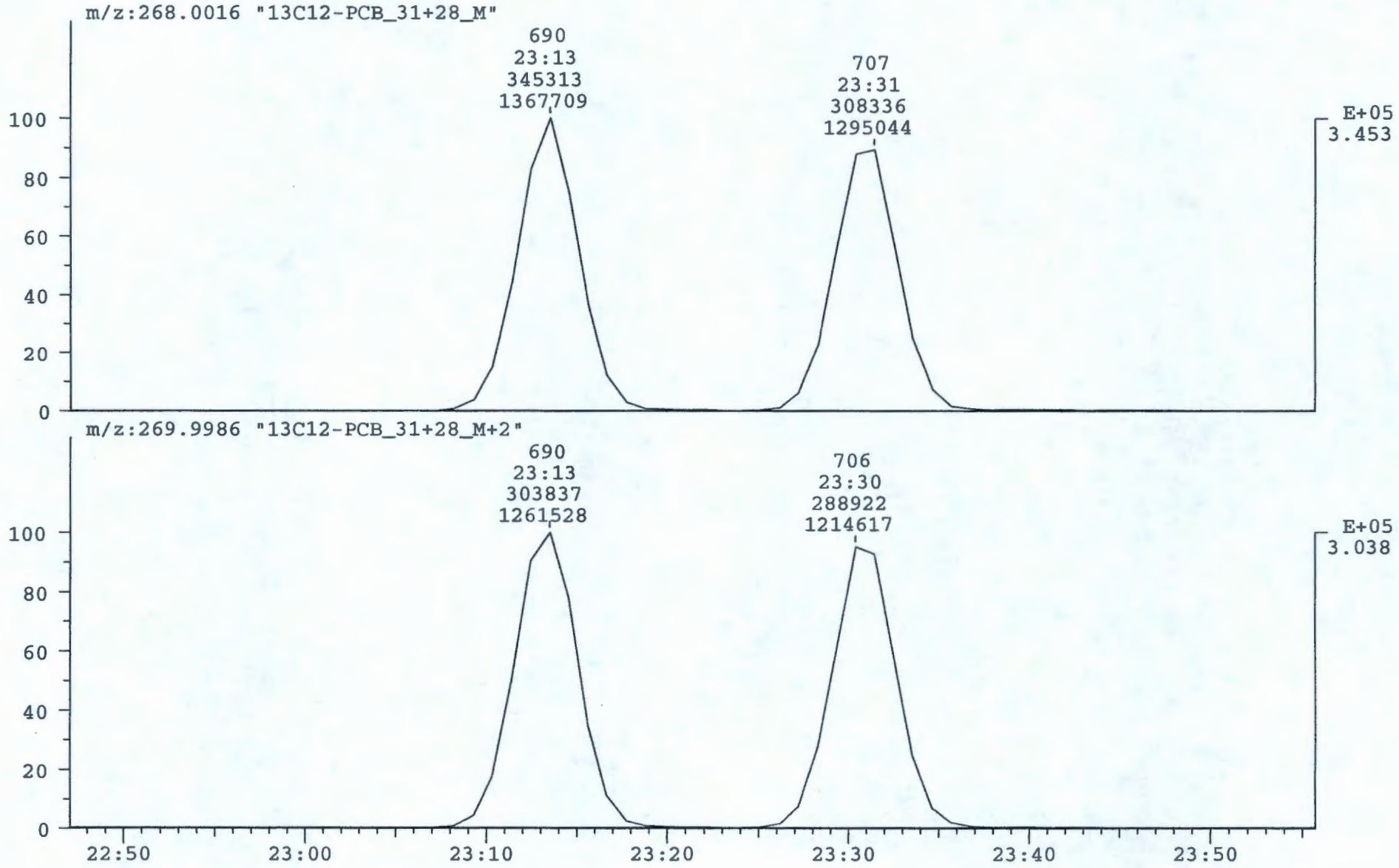
CHRO: a0806m1r1 10-Jun-08 Elapse: 22:53.4 671
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 14:37:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



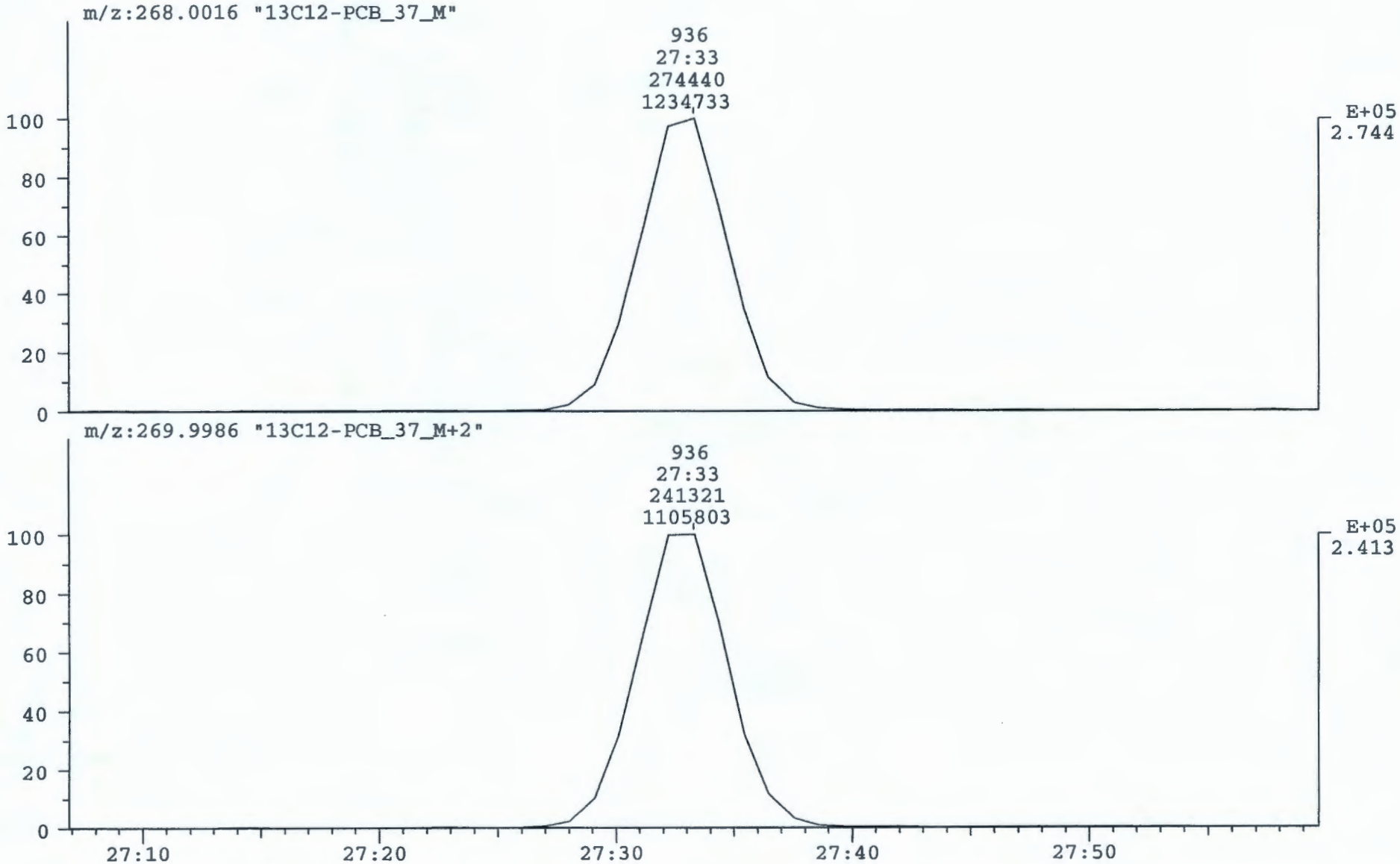
```
CHRO:  a0806m1r1                              10-Jun-08   Elapse:  19:01.7      456
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1              Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   336 > 596           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1              Label :  -3, 3.0
Disp:  Height  Area
```



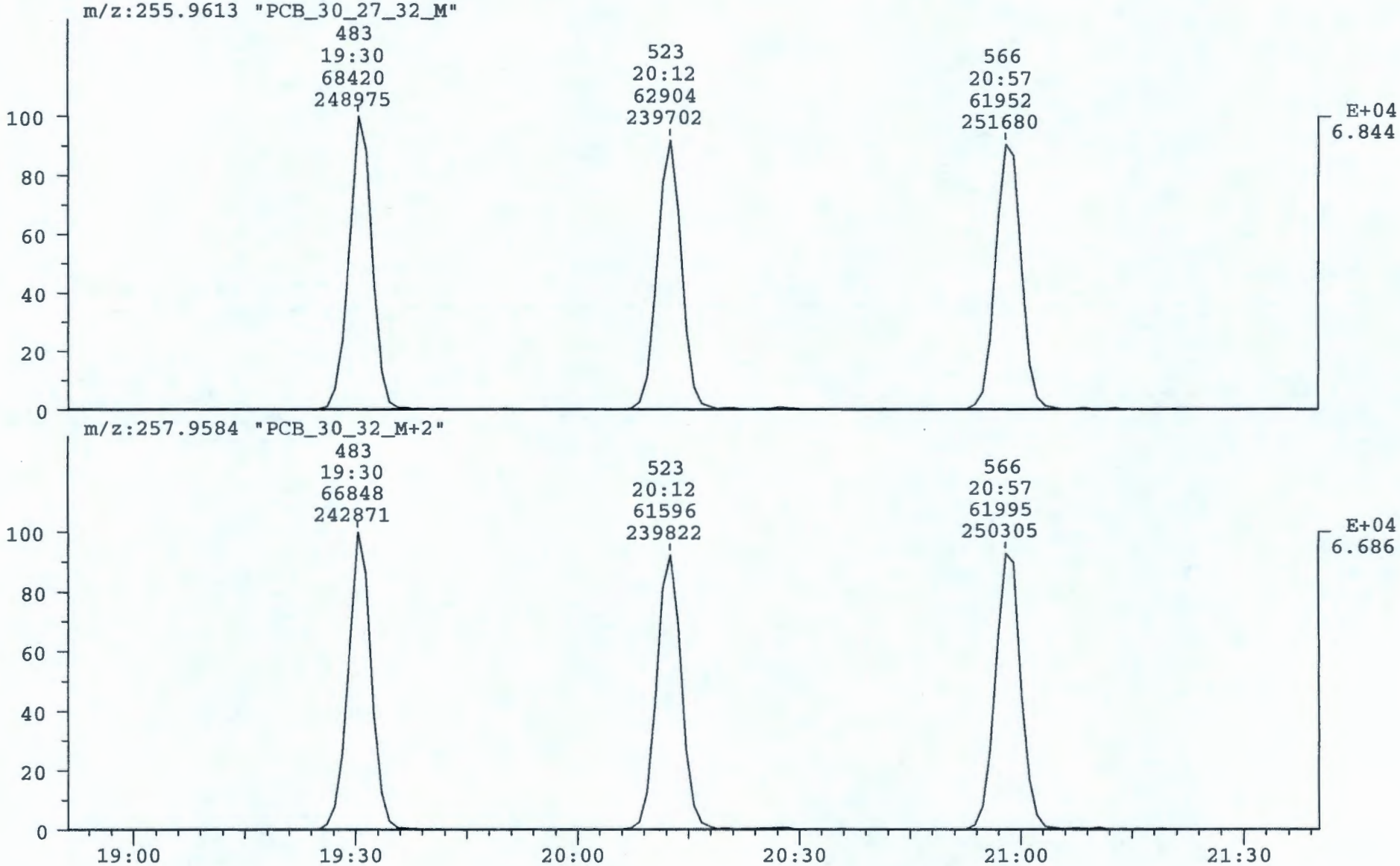
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  23:13.5     690
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   665 > 730            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



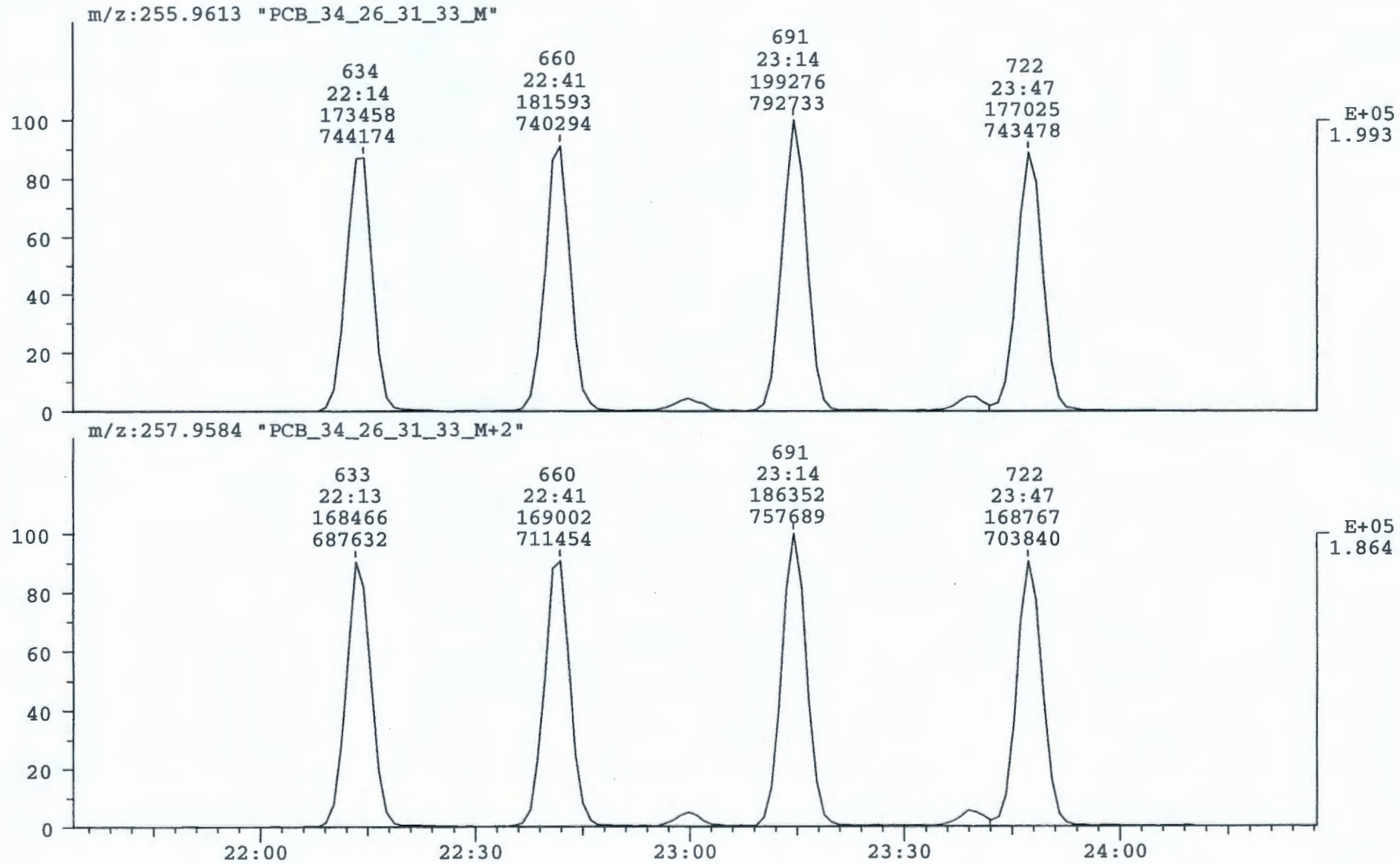
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  27:33.3      936
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   911 > 961             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



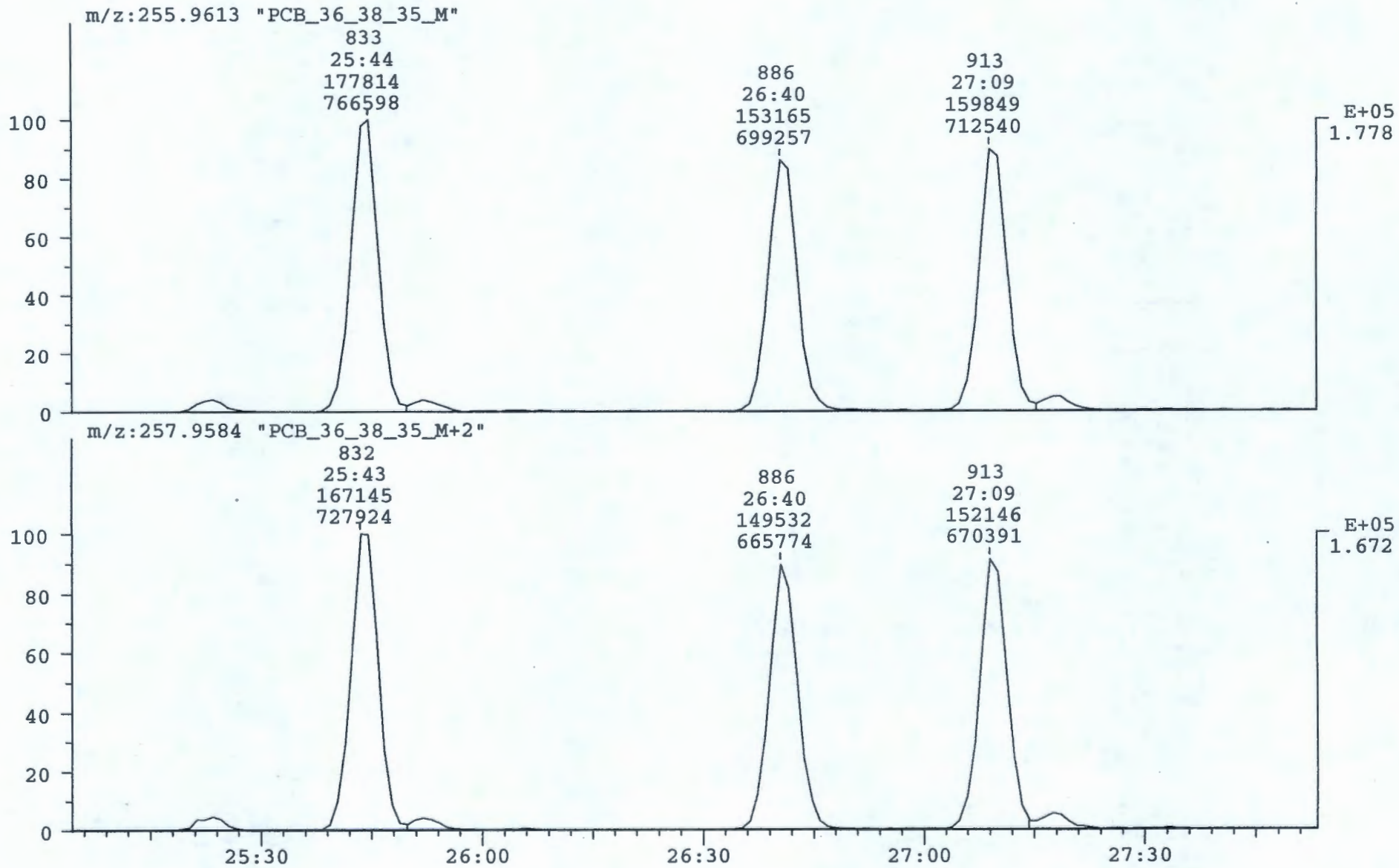
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  20:15.6      526
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   446 > 606            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



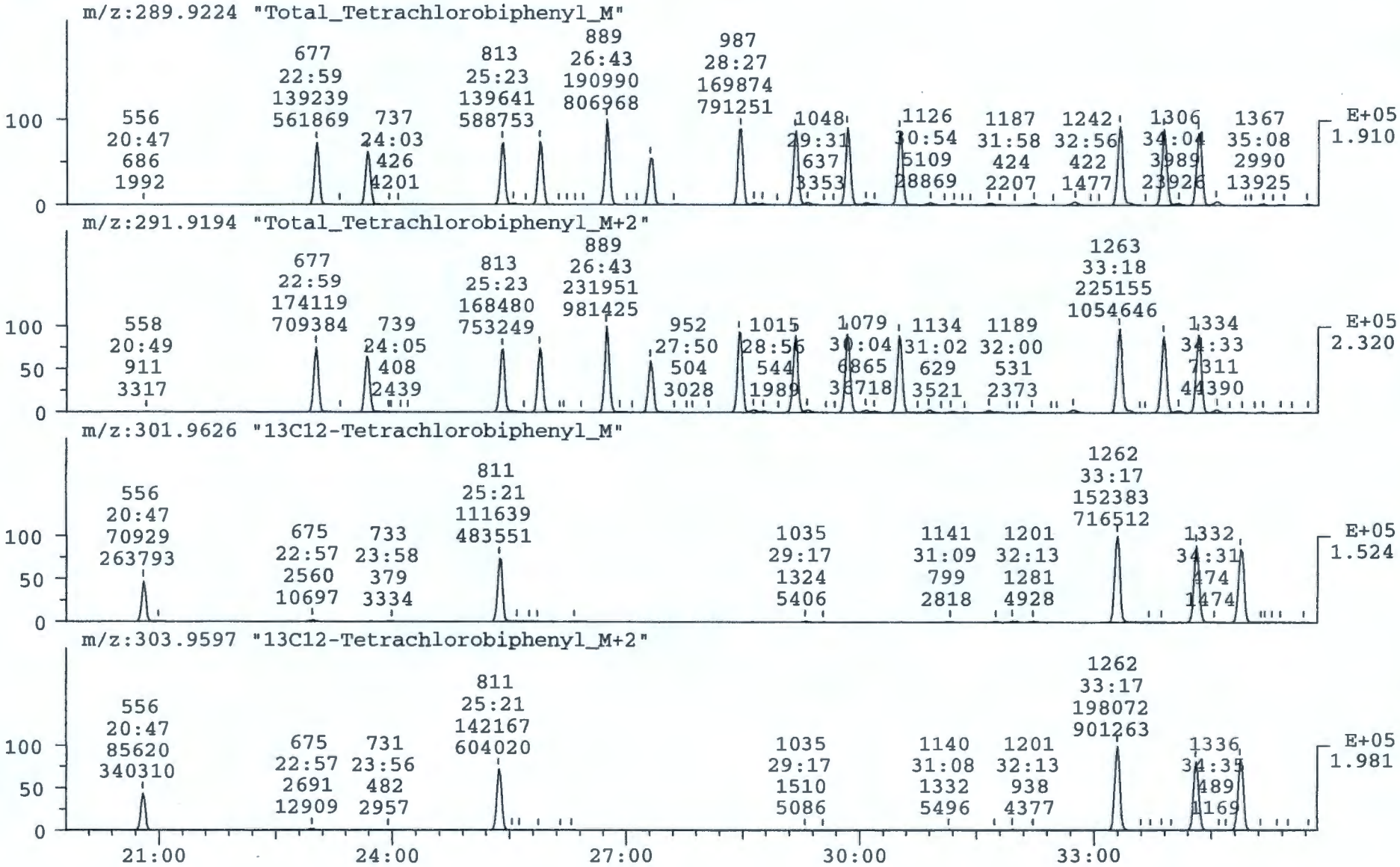
CHRO: a0806m1r1 10-Jun-08 Elapse: 23:02.9 680
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 14:37:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 600 > 760 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



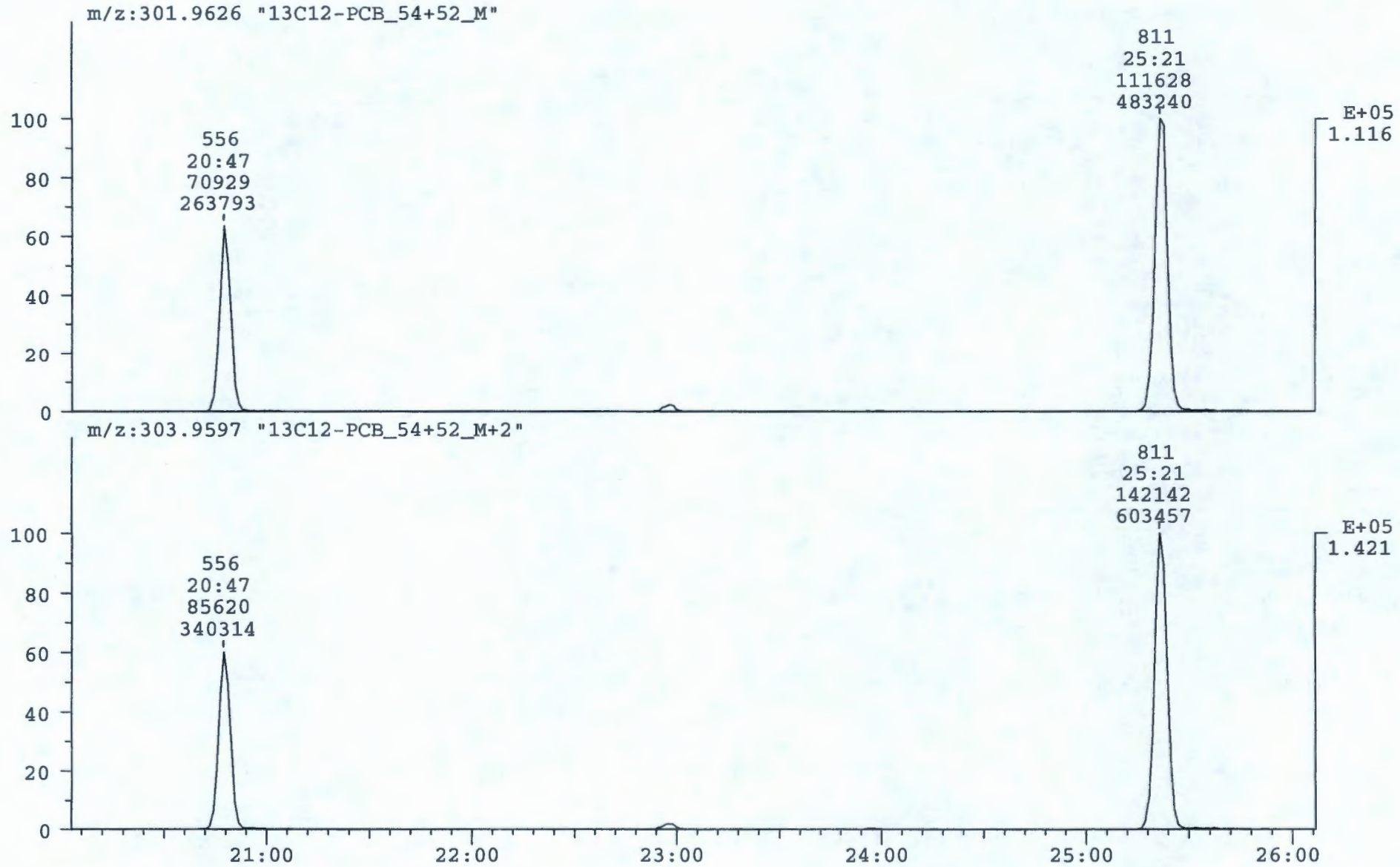
CHRO: a0806m1r1 10-Jun-08 Elapse: 26:28.8 875
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 14:37:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 795 > 955 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



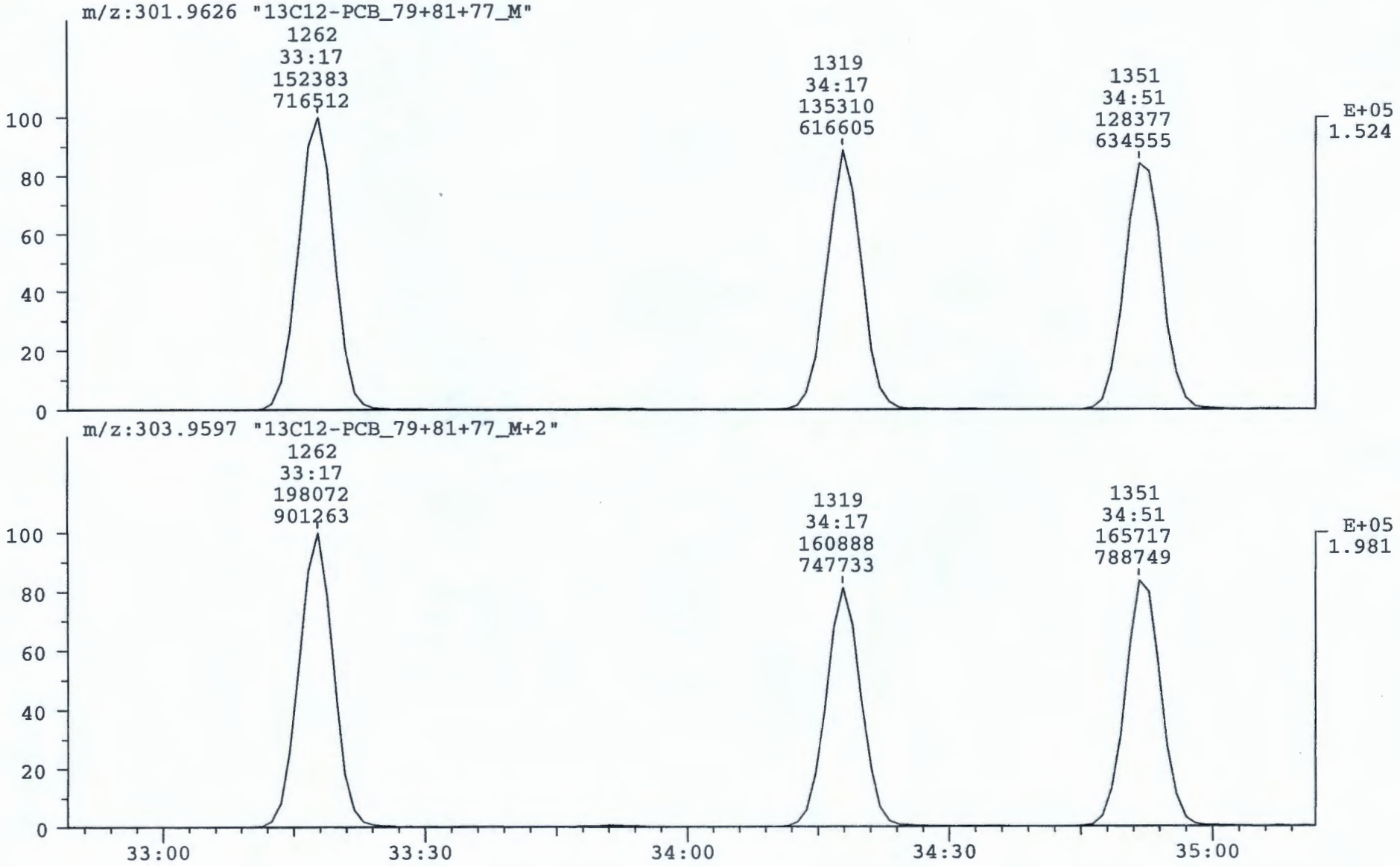
CHRO: a0806m1r1 10-Jun-08 Elapse: 27:49.1 951
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 14:37:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 500 > 1407 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



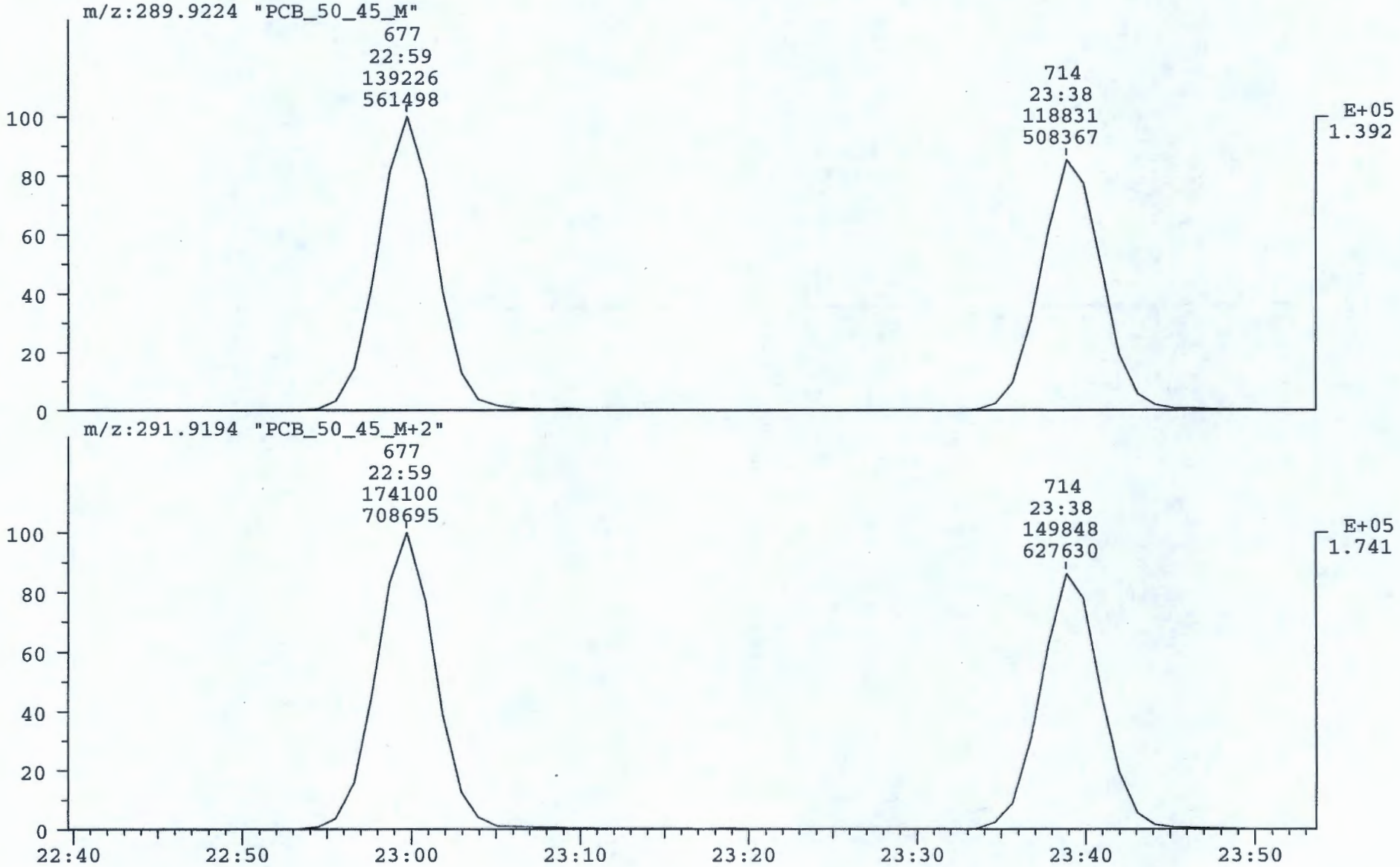
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  23:07.1      684
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   514 > 854            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



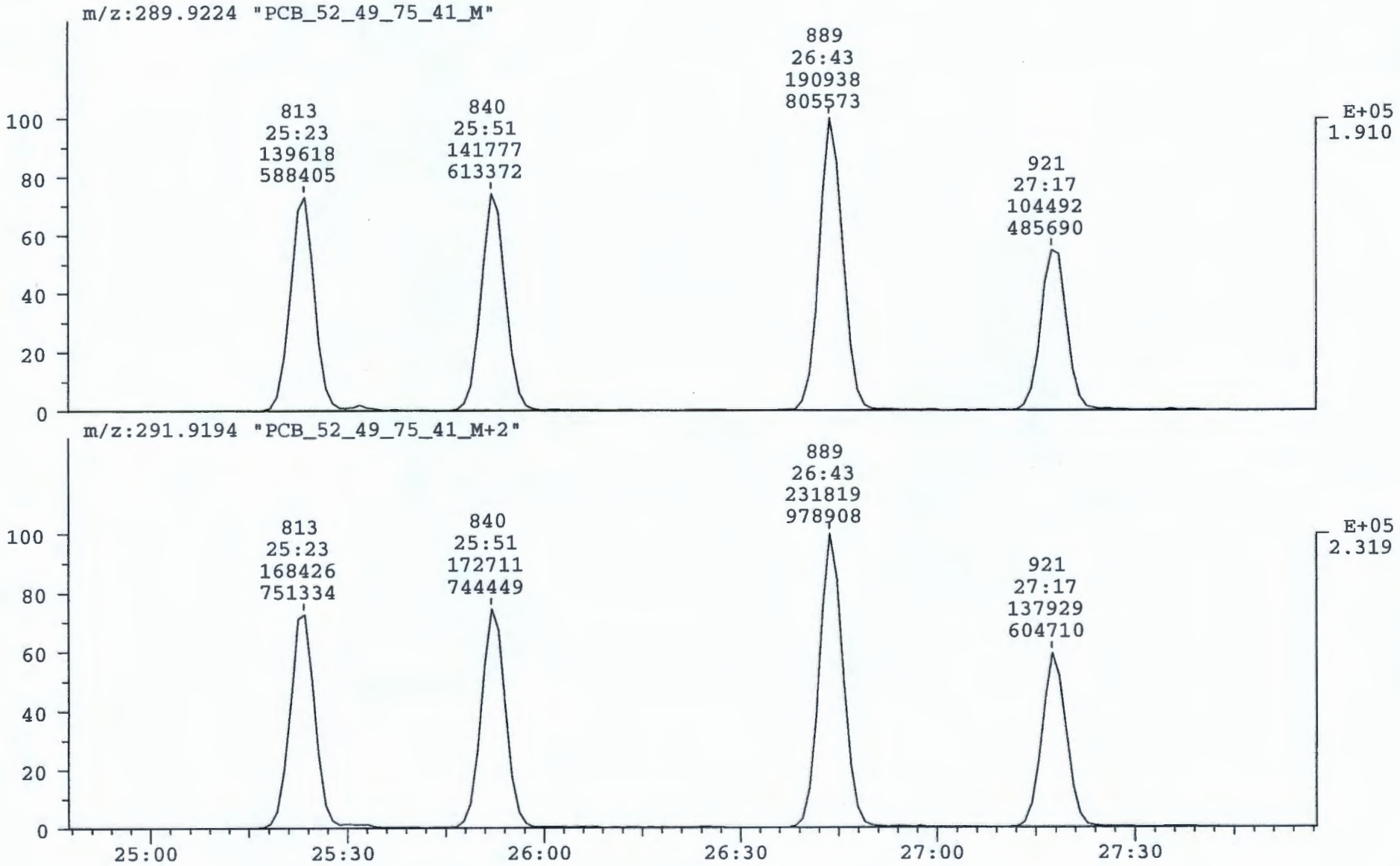
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  34:03      1305
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1235 > 1370          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



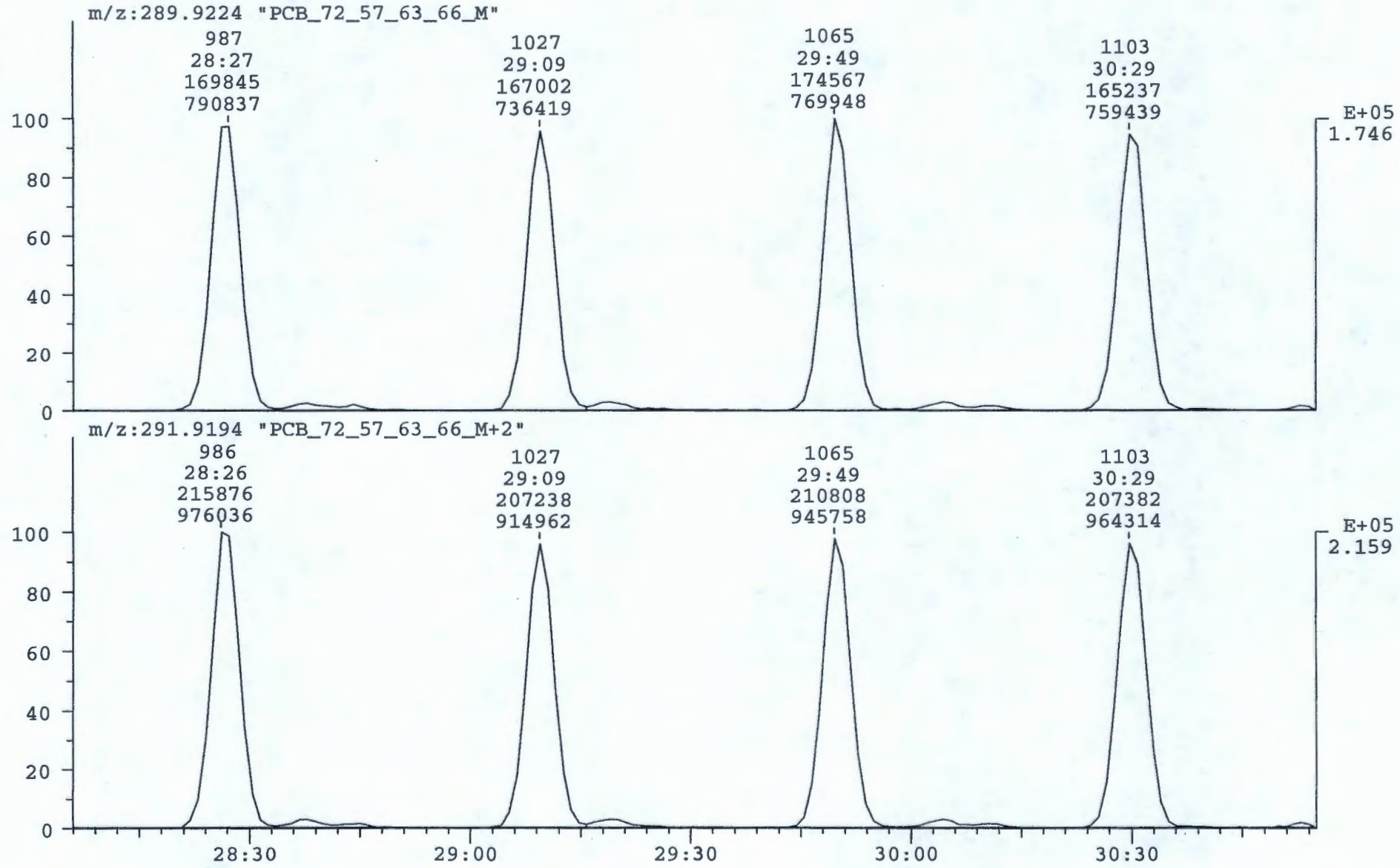
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  23:21.9      698
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   658 > 728            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



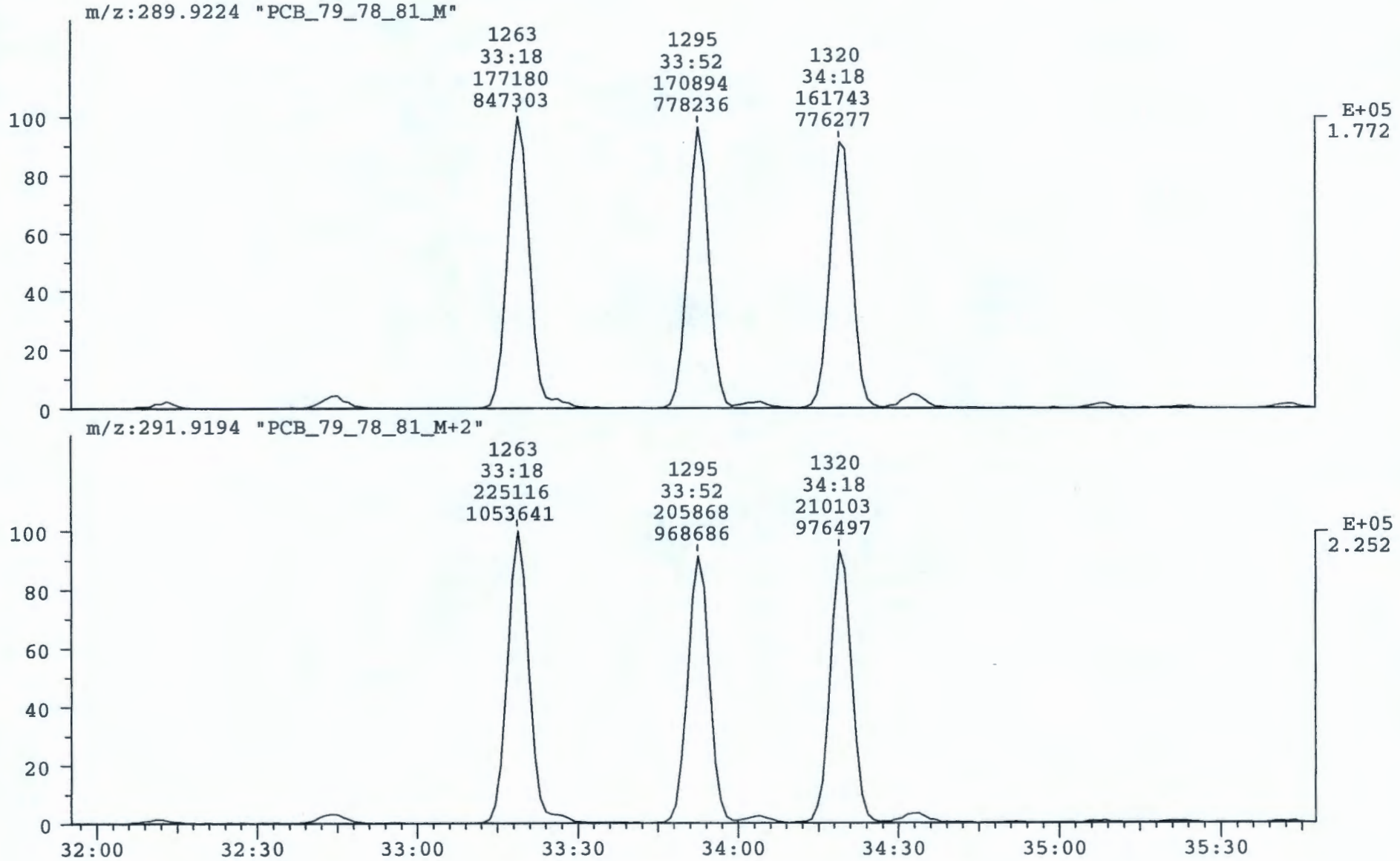
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  26:22.5      869
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   779 > 959             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



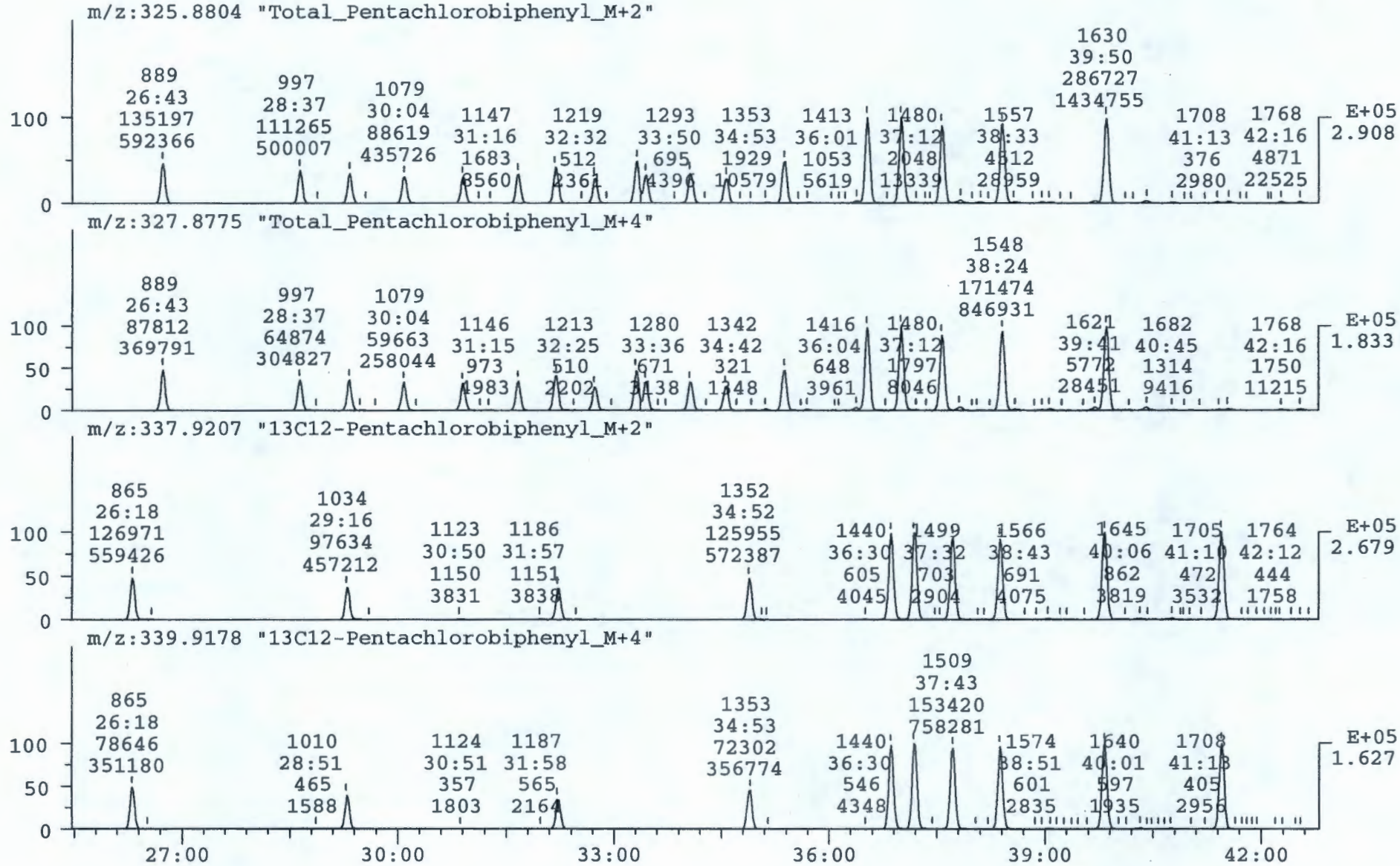
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  29:30      1047
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  11
Peak:  100.00  ppm     Label wndw:   967 > 1127            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



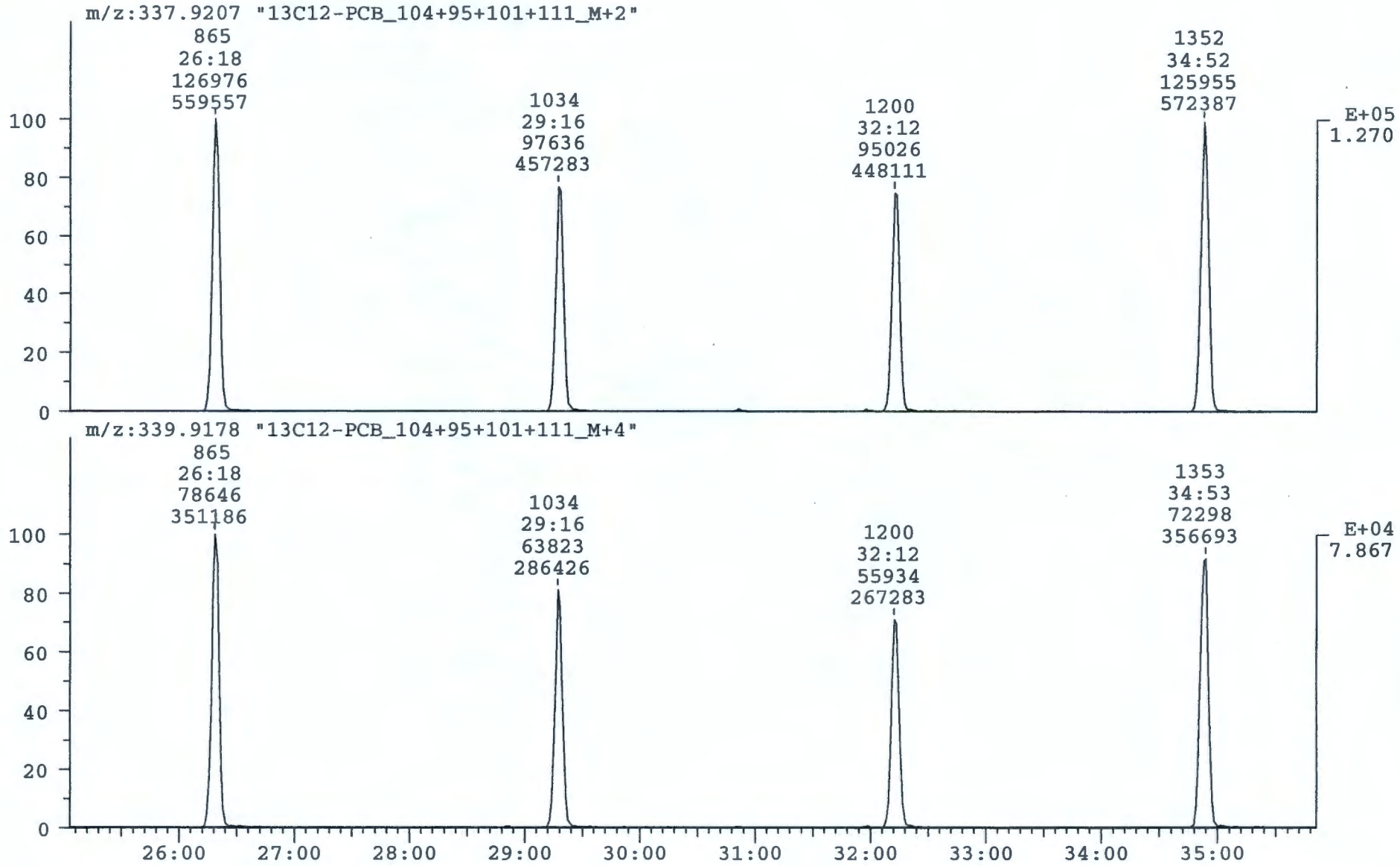
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  33:51      1294
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1184 > 1404          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



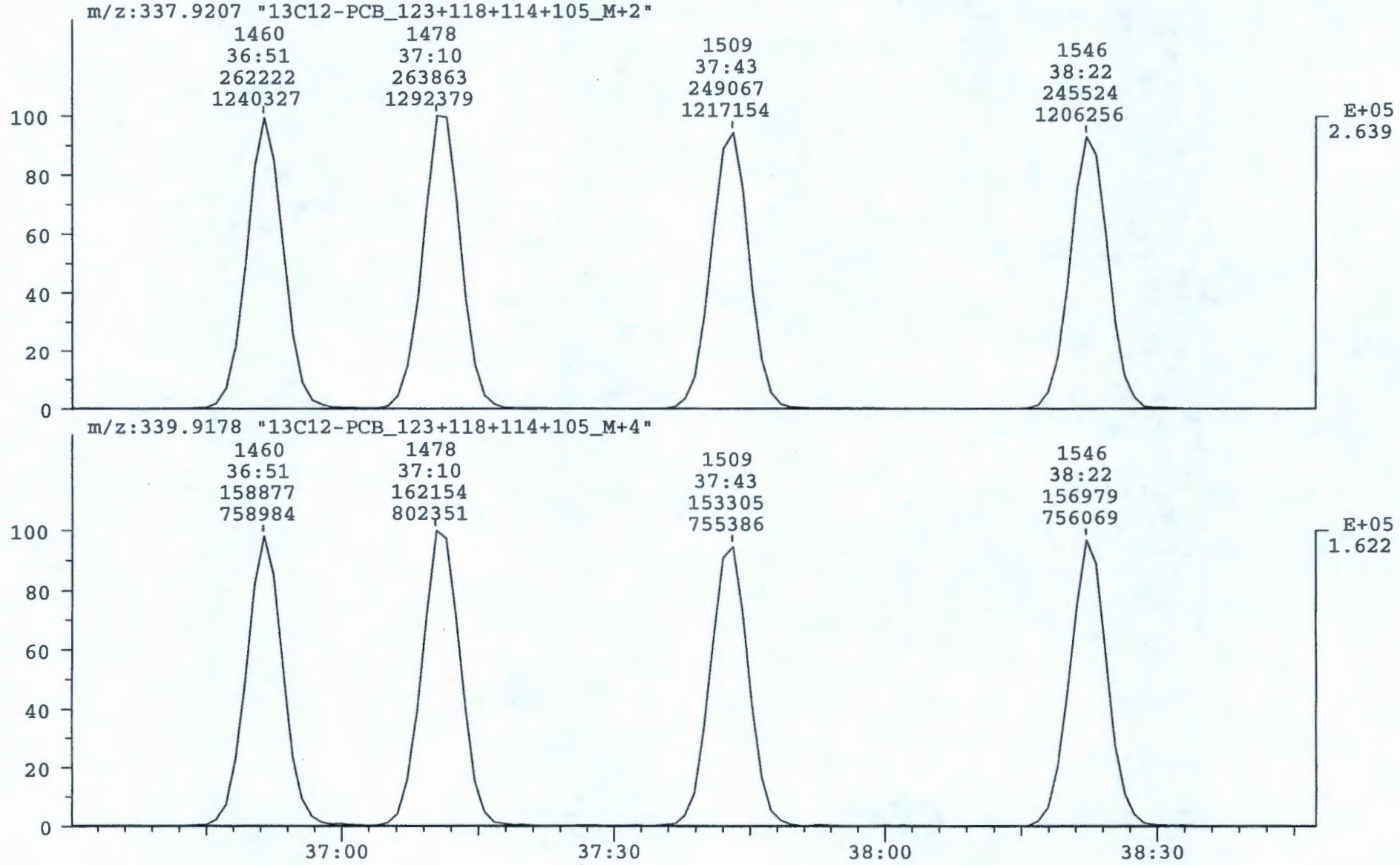
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  34:08      1310
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
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
```



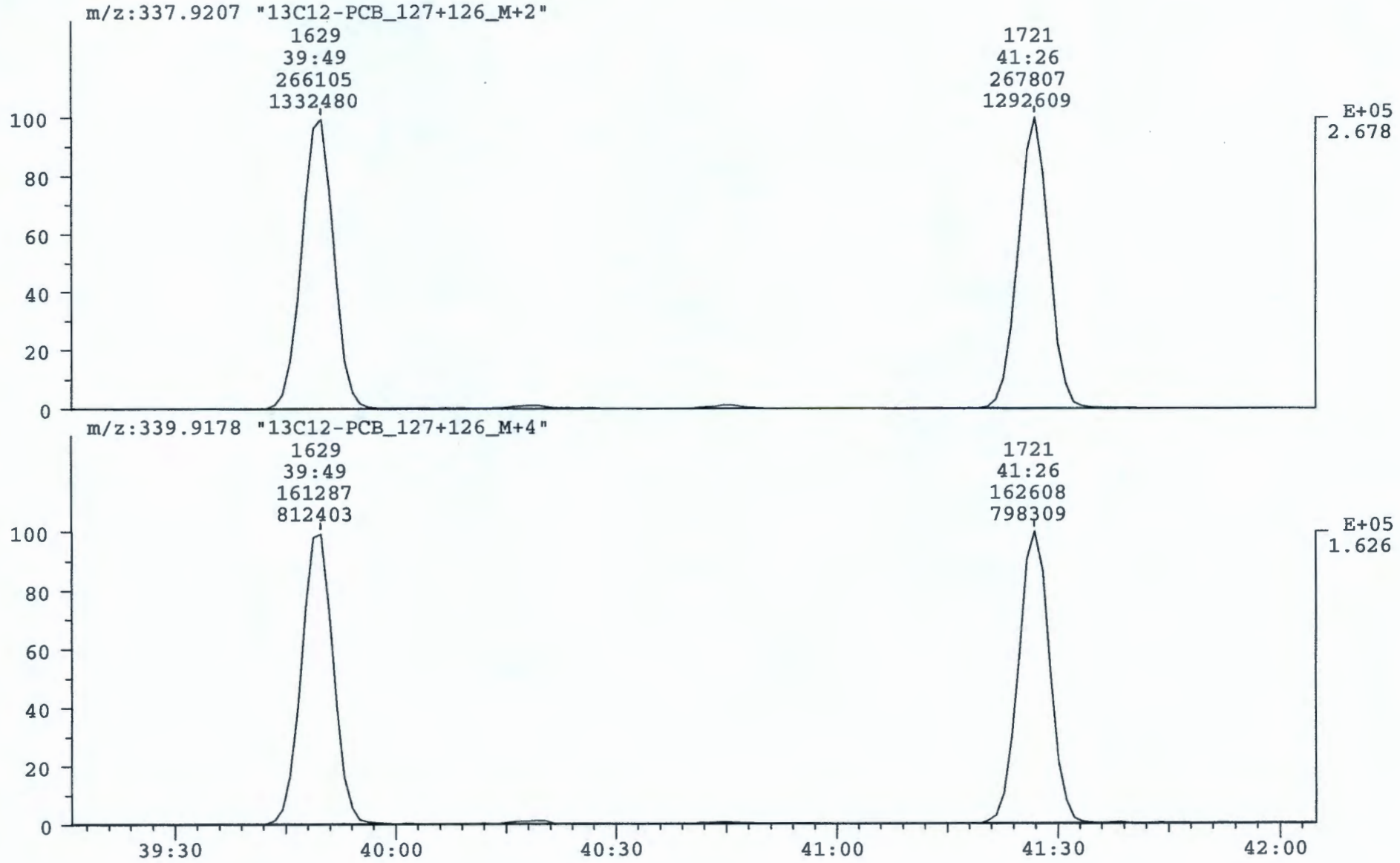
```
CHRO:  a0806m1r1                              10-Jun-08   Elapse:  30:26      1100
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1              Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   794 > 1407          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



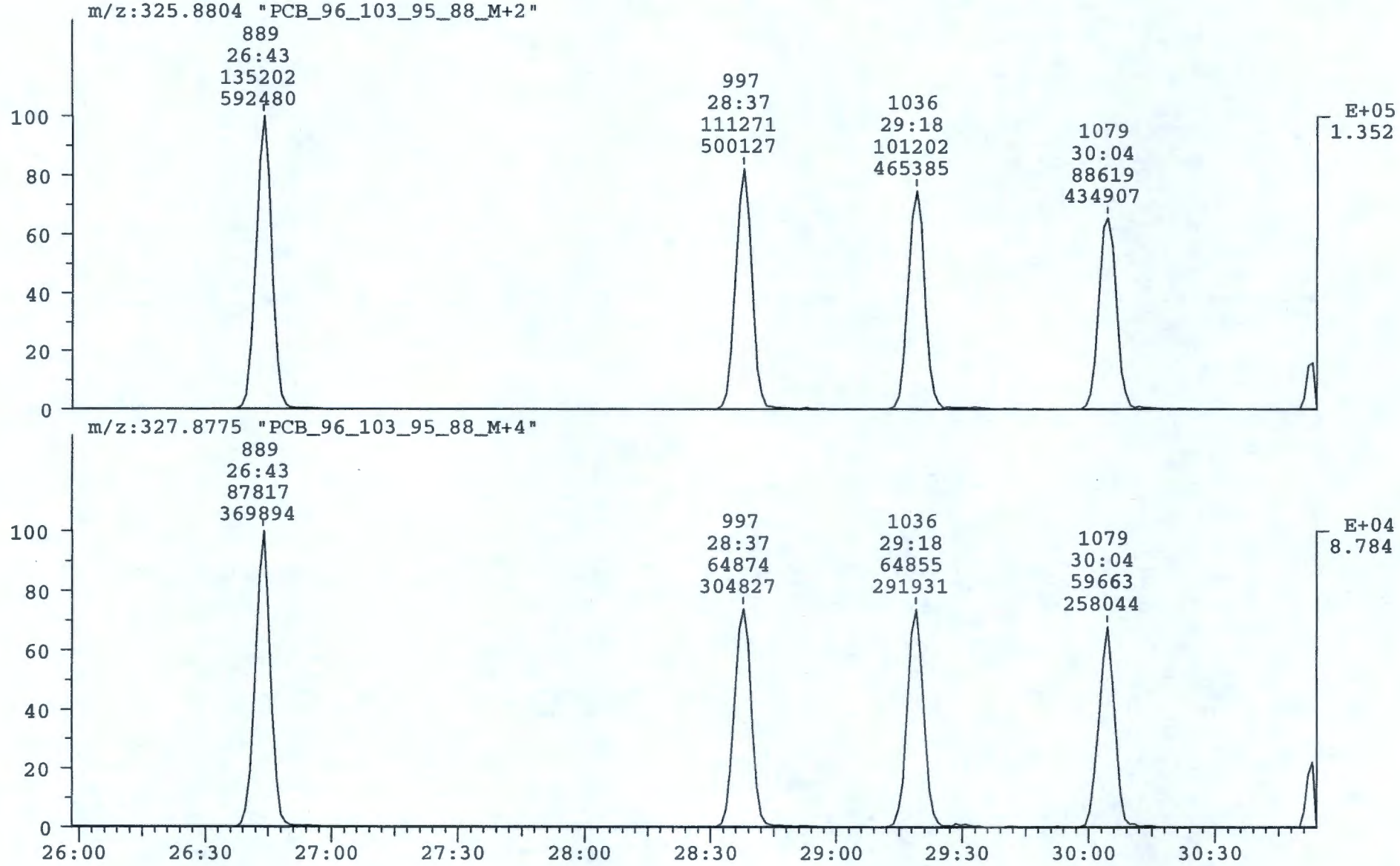
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  37:38      1505
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1440 > 1570          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



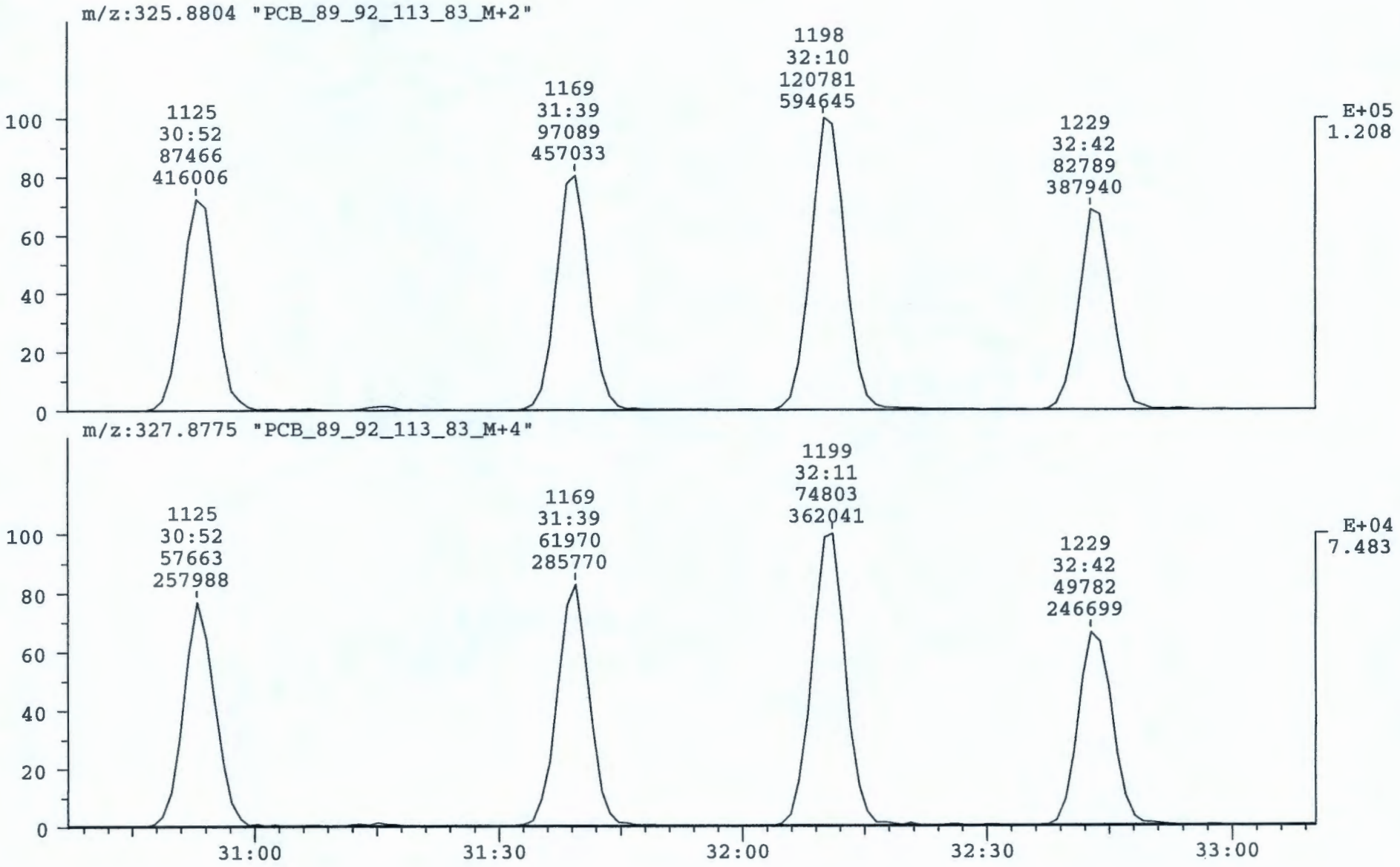
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  40:40      1677
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1597 > 1757           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



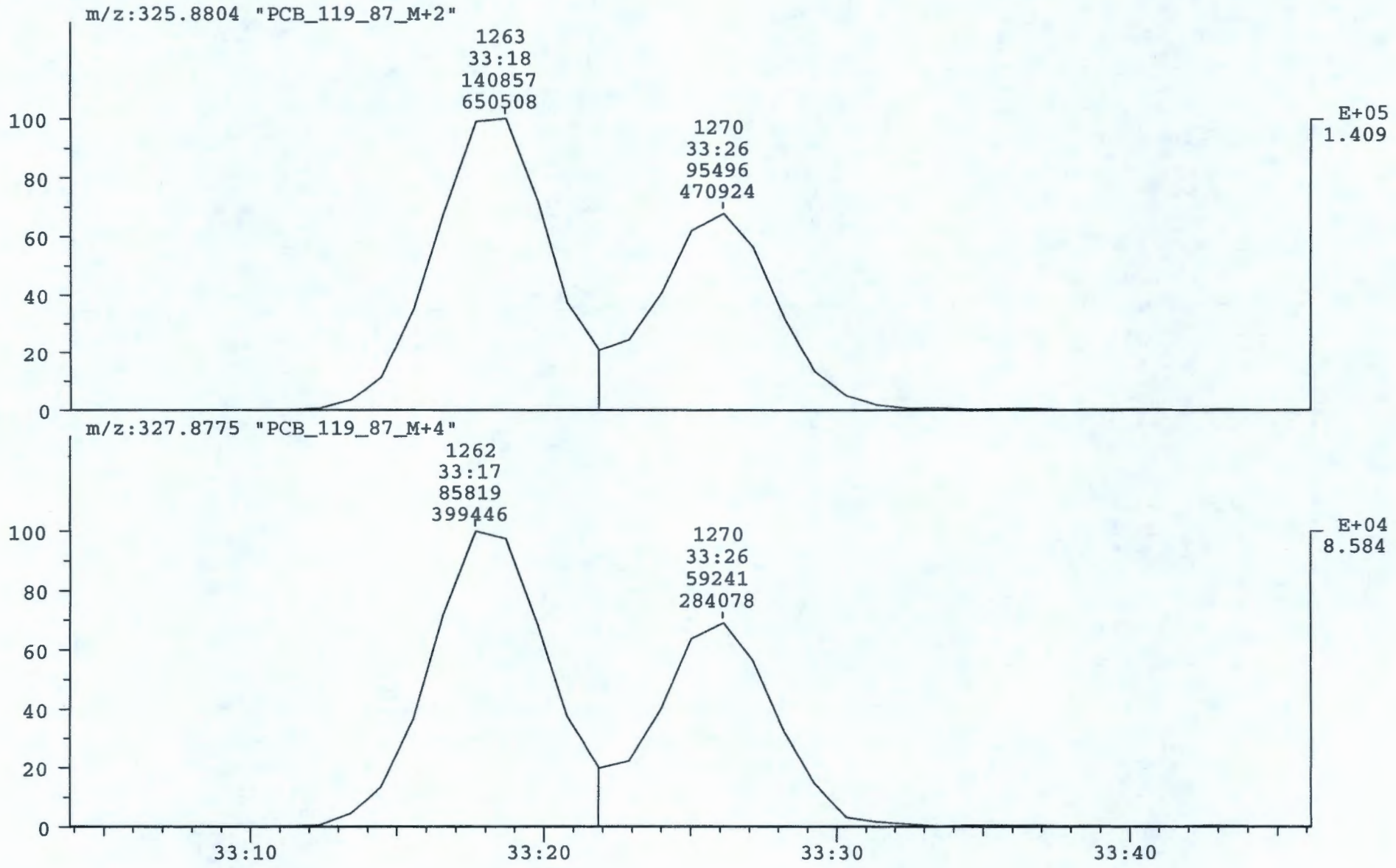
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  28:26.1      986
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   846 > 1126            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



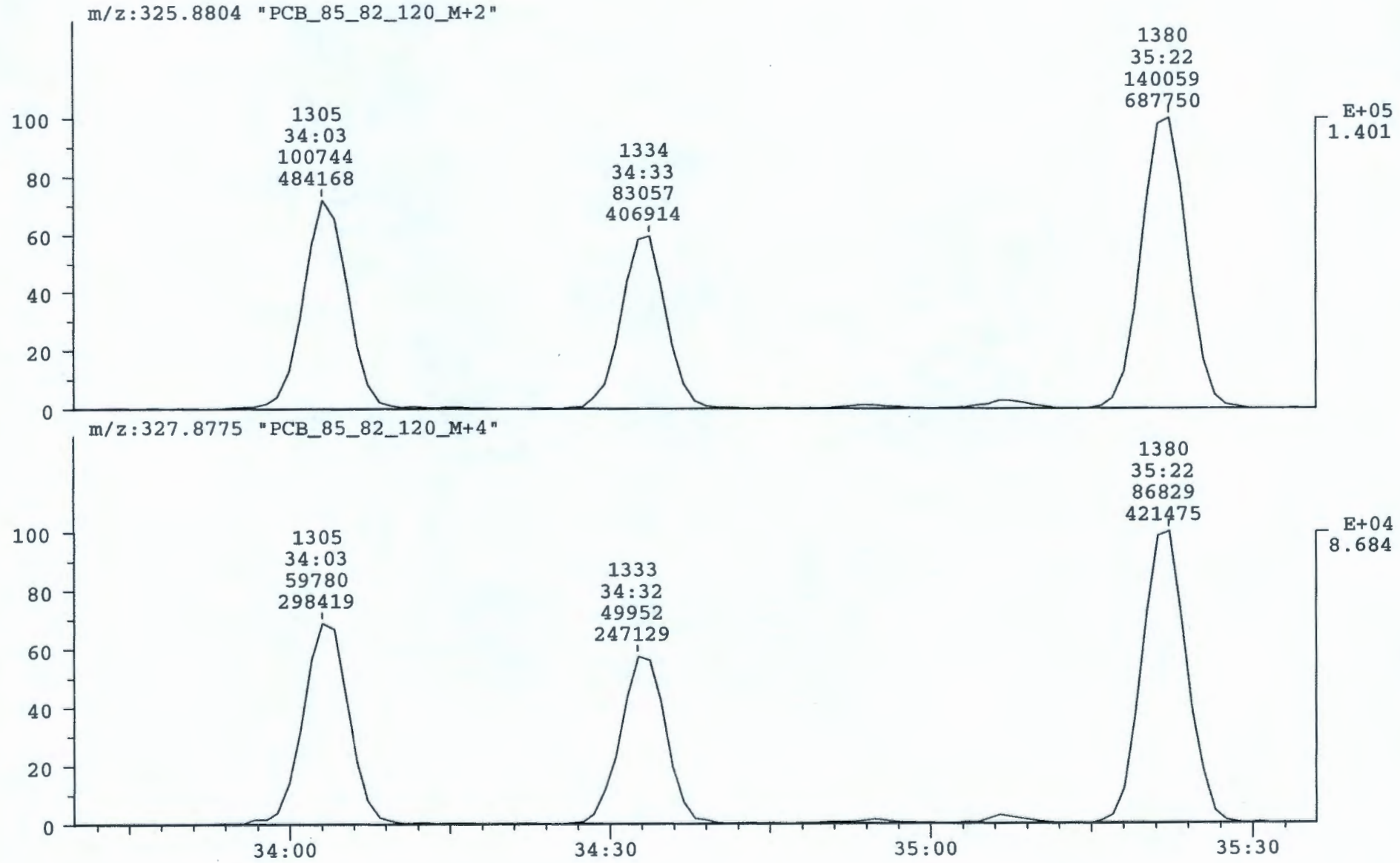
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  31:51      1180
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1110 > 1255           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



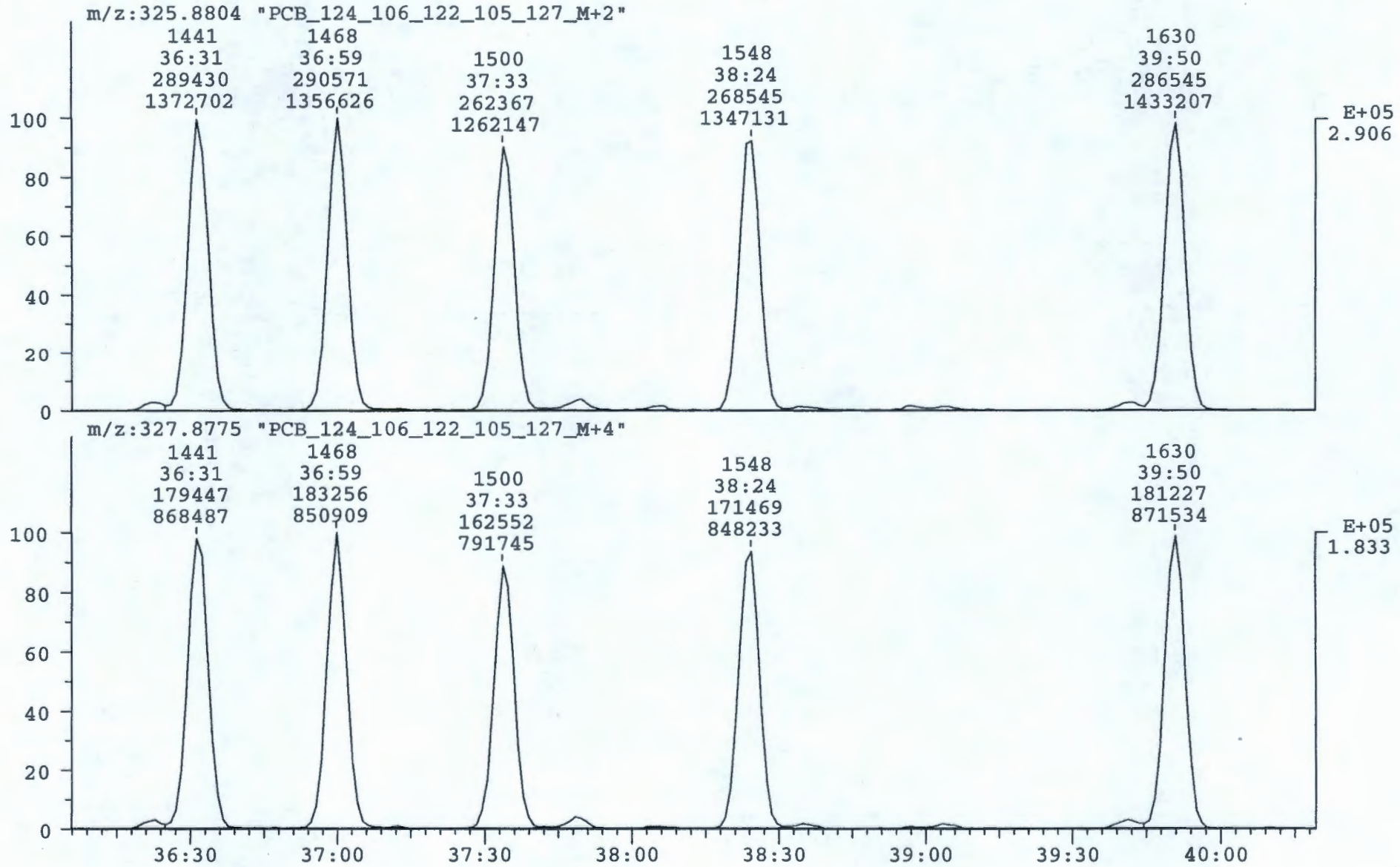
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  33:25      1269
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1249 > 1289           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



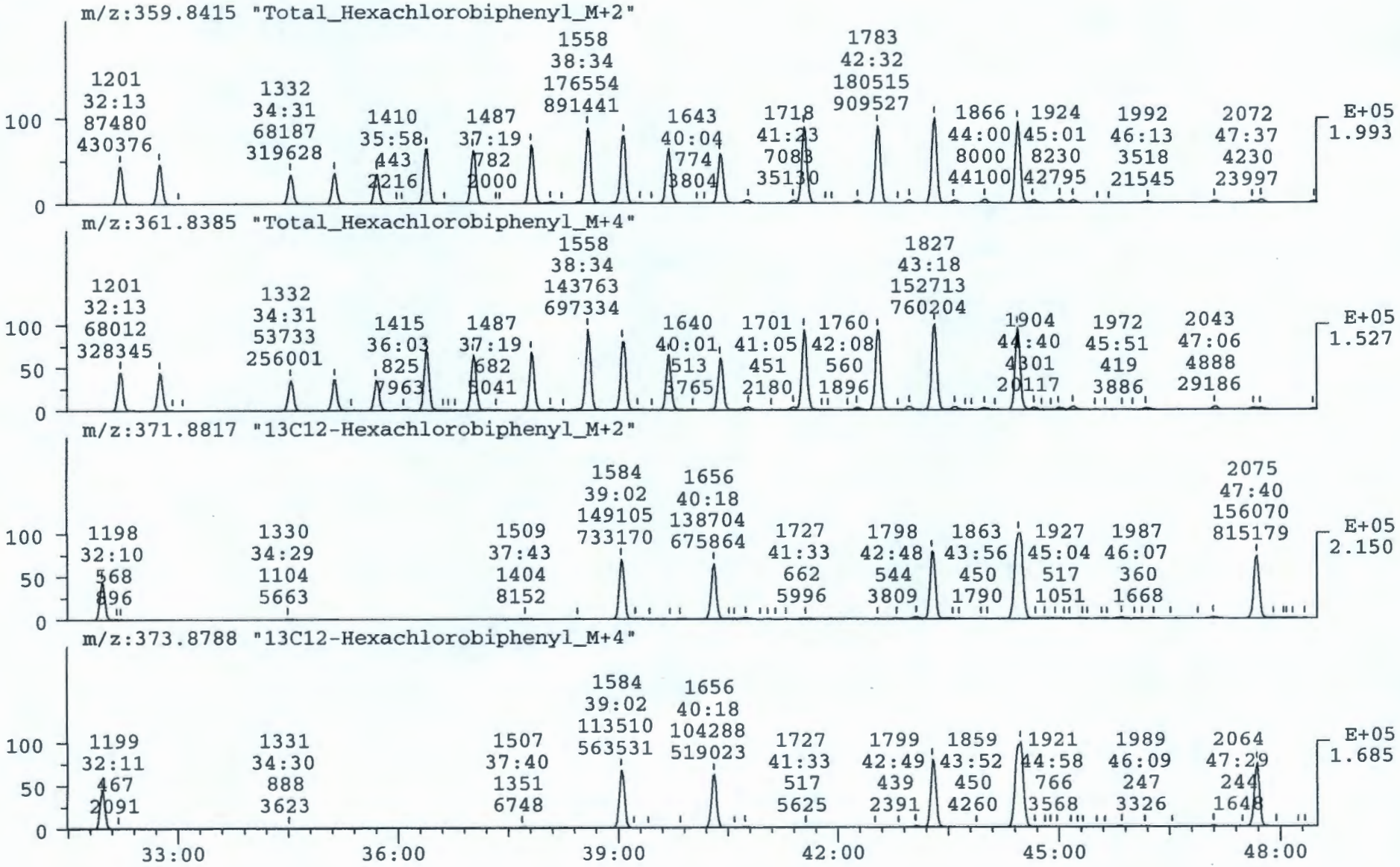
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  34:27      1328
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1283 > 1393          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



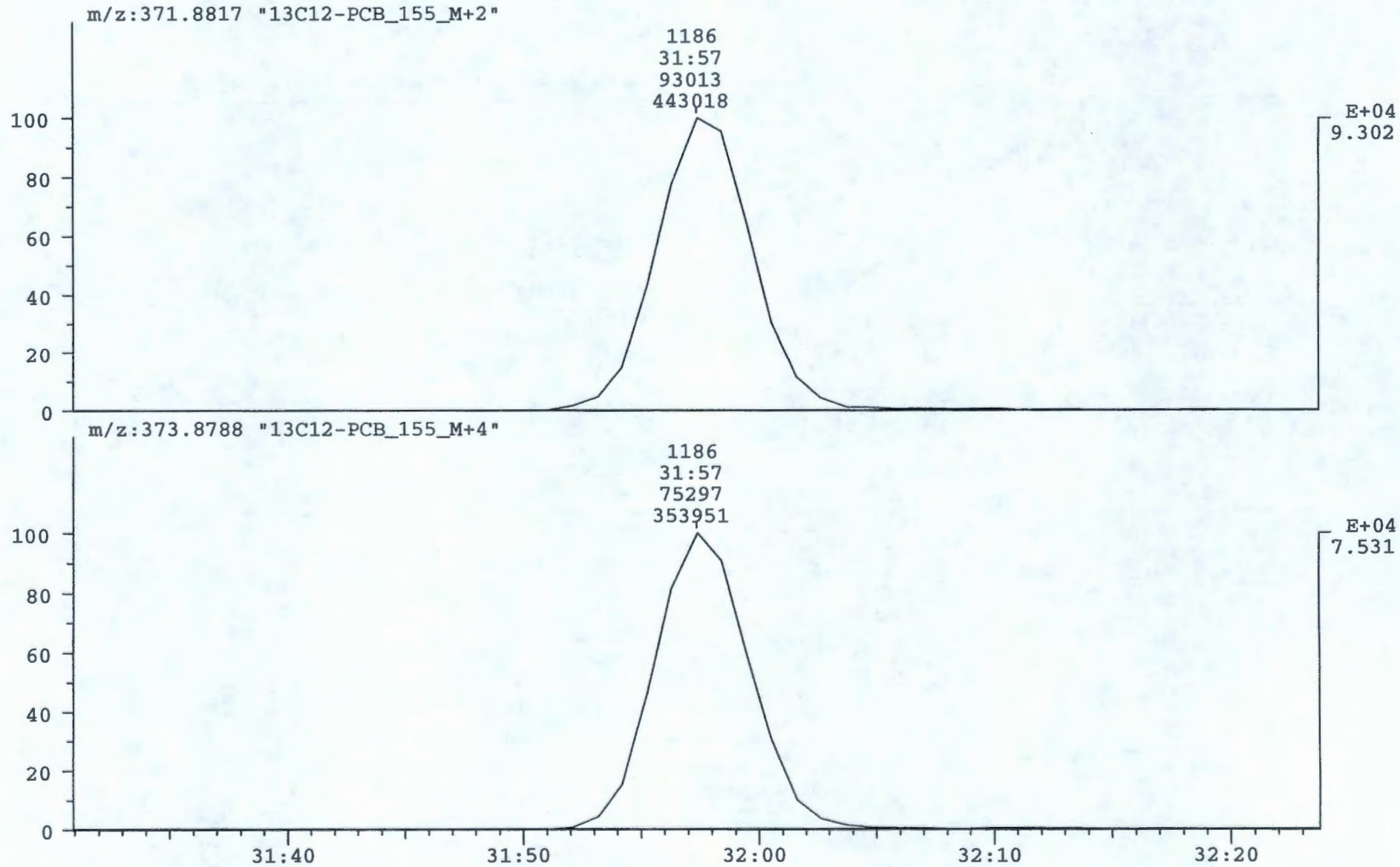
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  38:17      1542
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  11
Peak:  100.00  ppm     Label wndw:   1417 > 1657           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



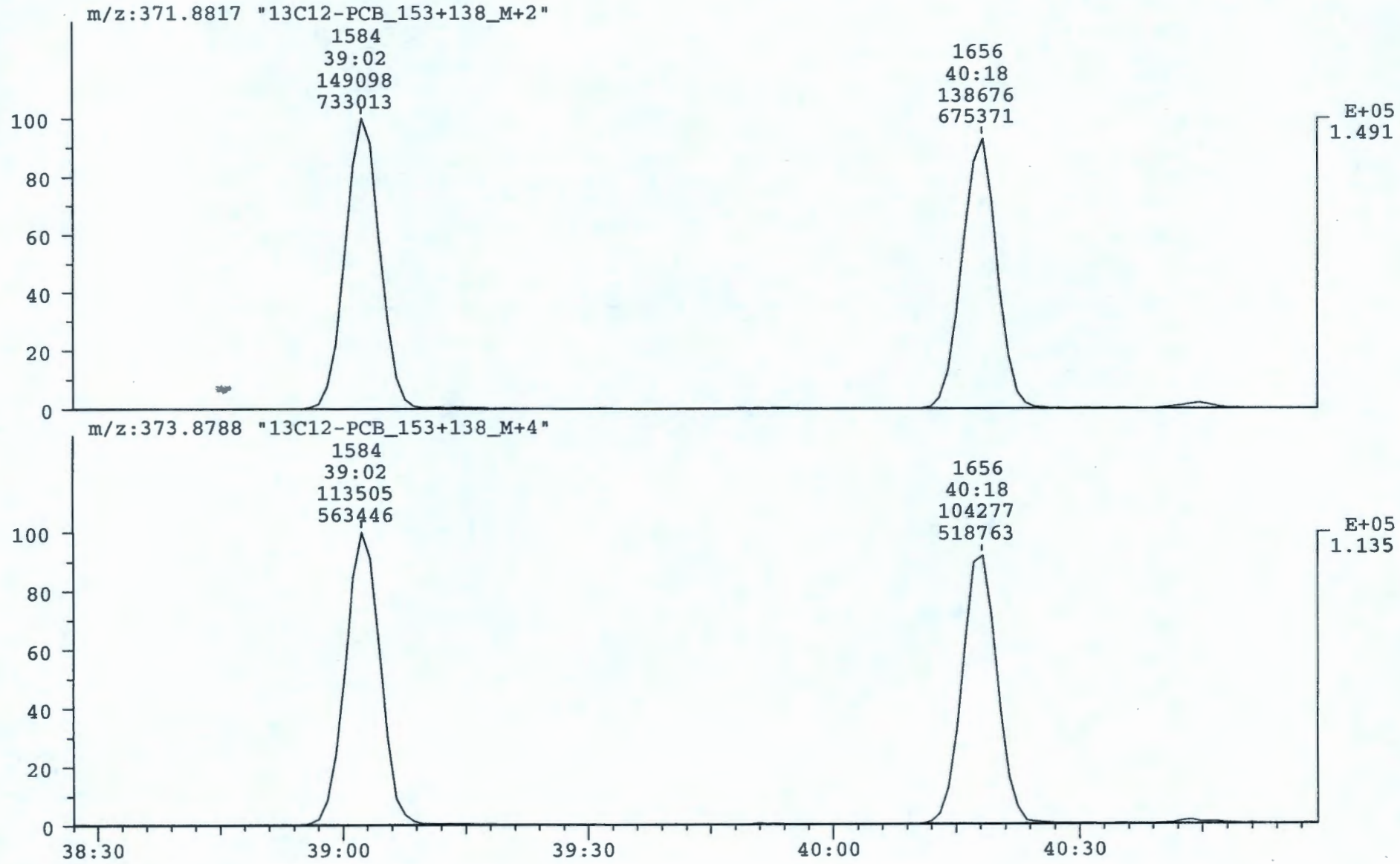
CHRO: a0806m1r1 10-Jun-08 Elapse: 39:59 1638
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 14:37:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1159 > 2122 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



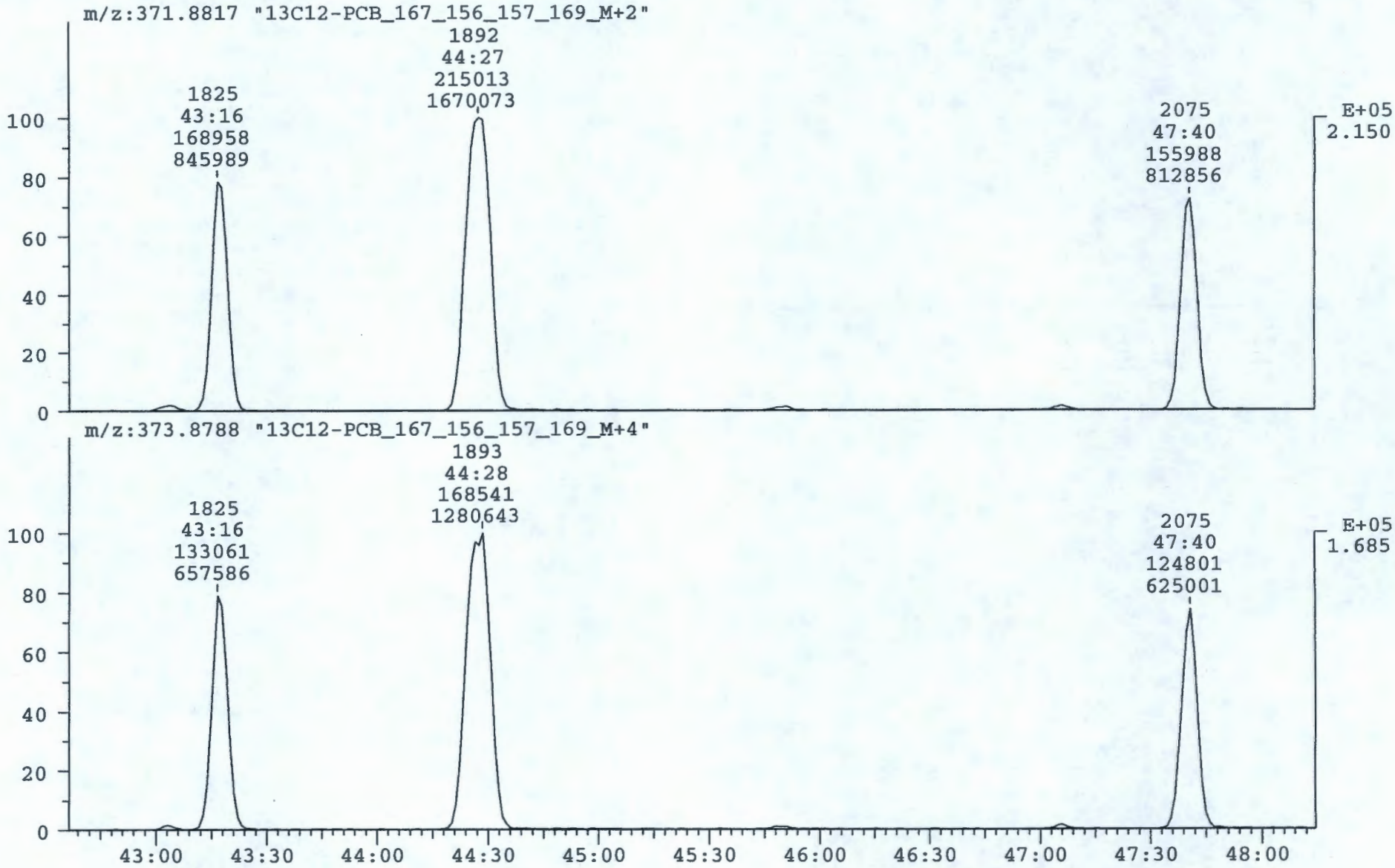
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  31:57      1186
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1161 > 1211          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



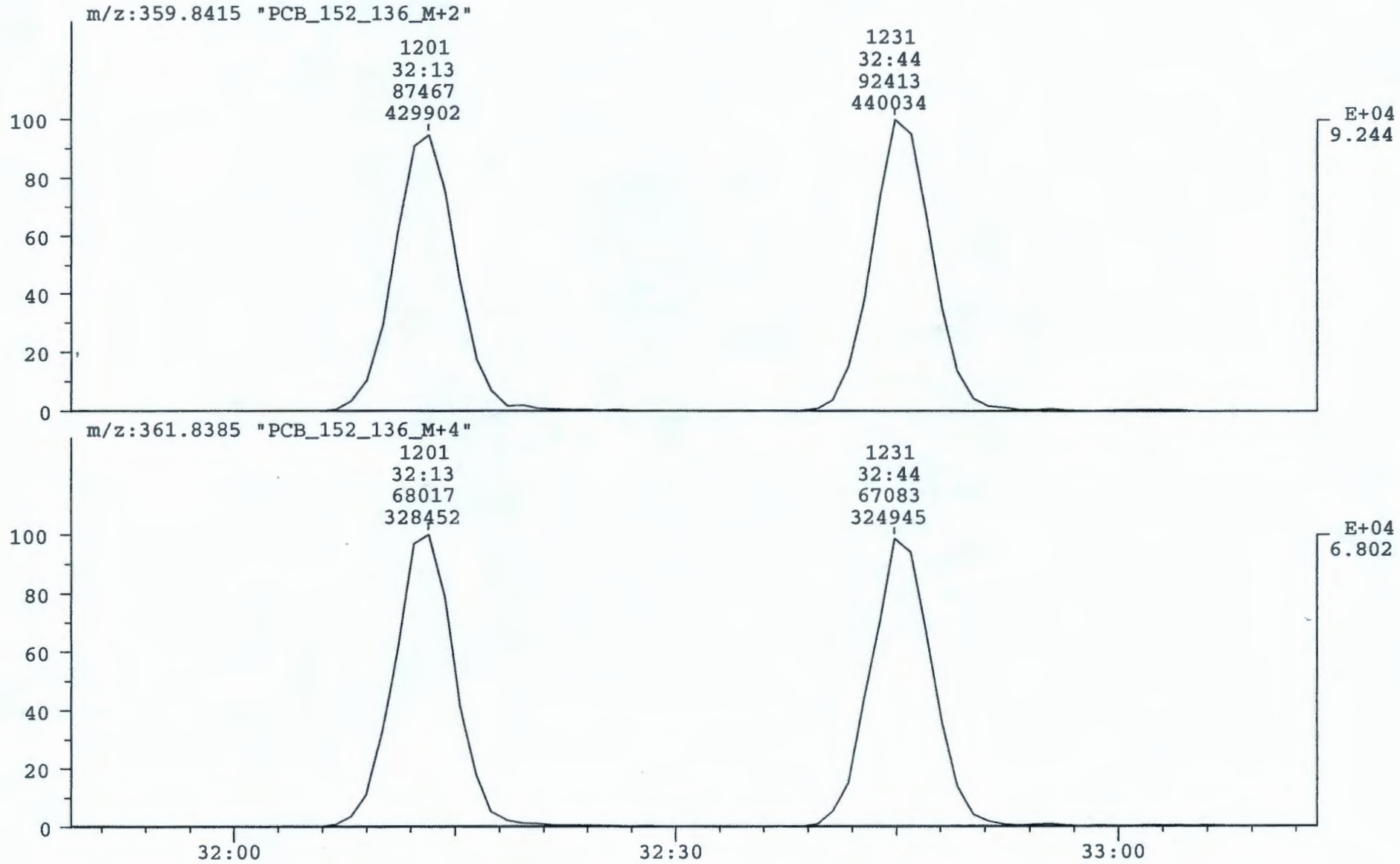
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  39:43      1623
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1551 > 1695           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



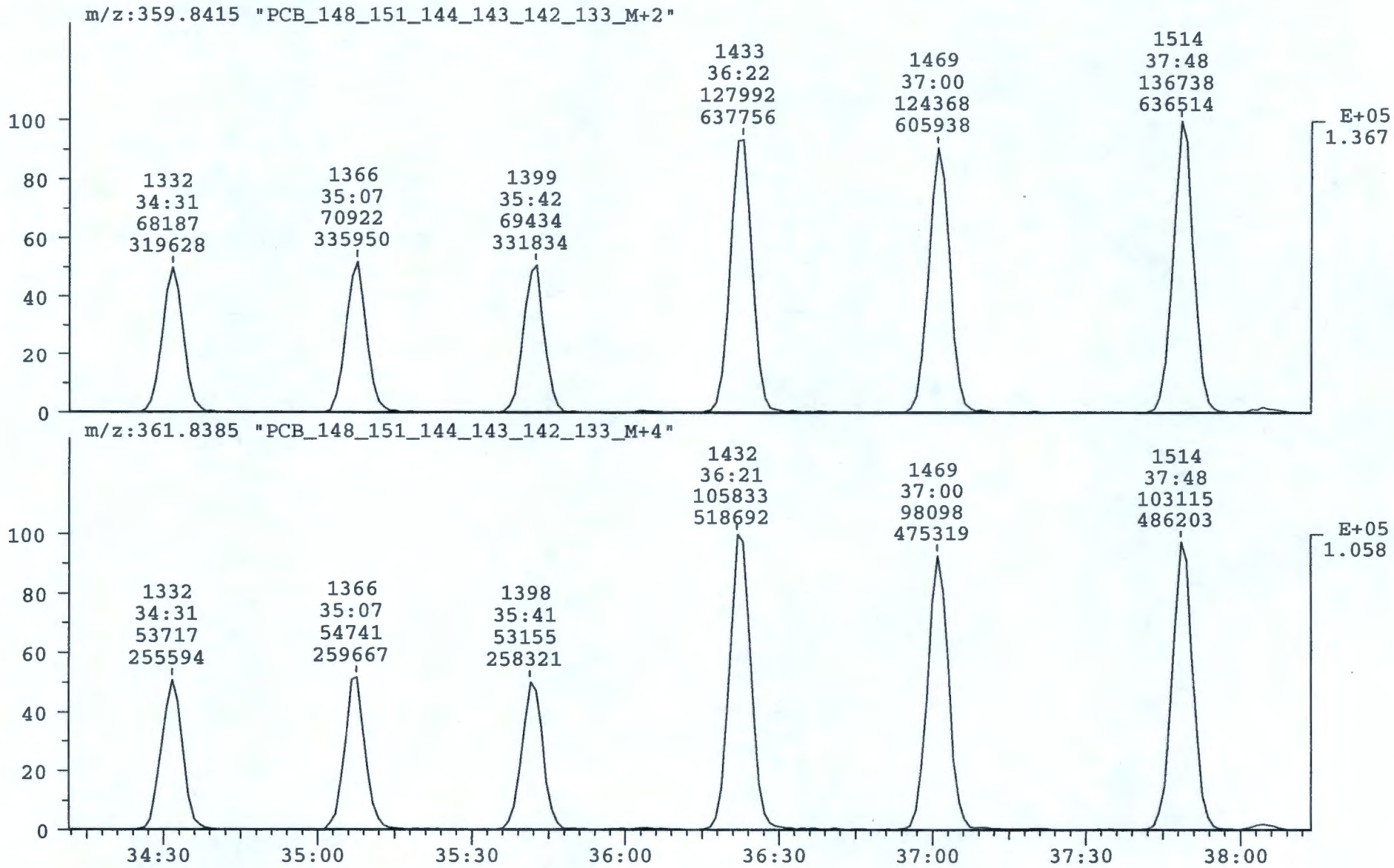
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  45:30      1952
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1787 > 2107          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



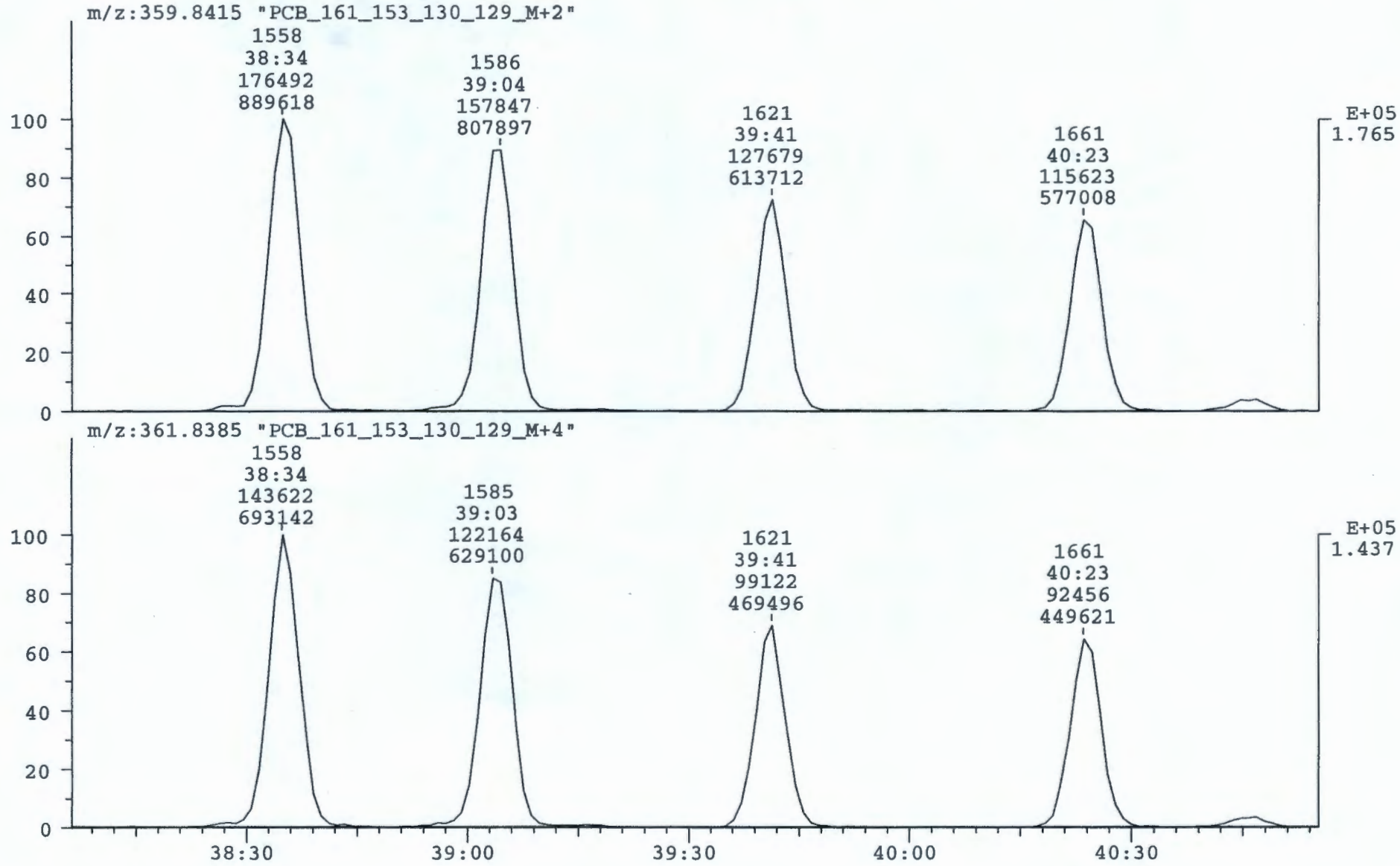
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  32:31      1218
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1178 > 1258          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



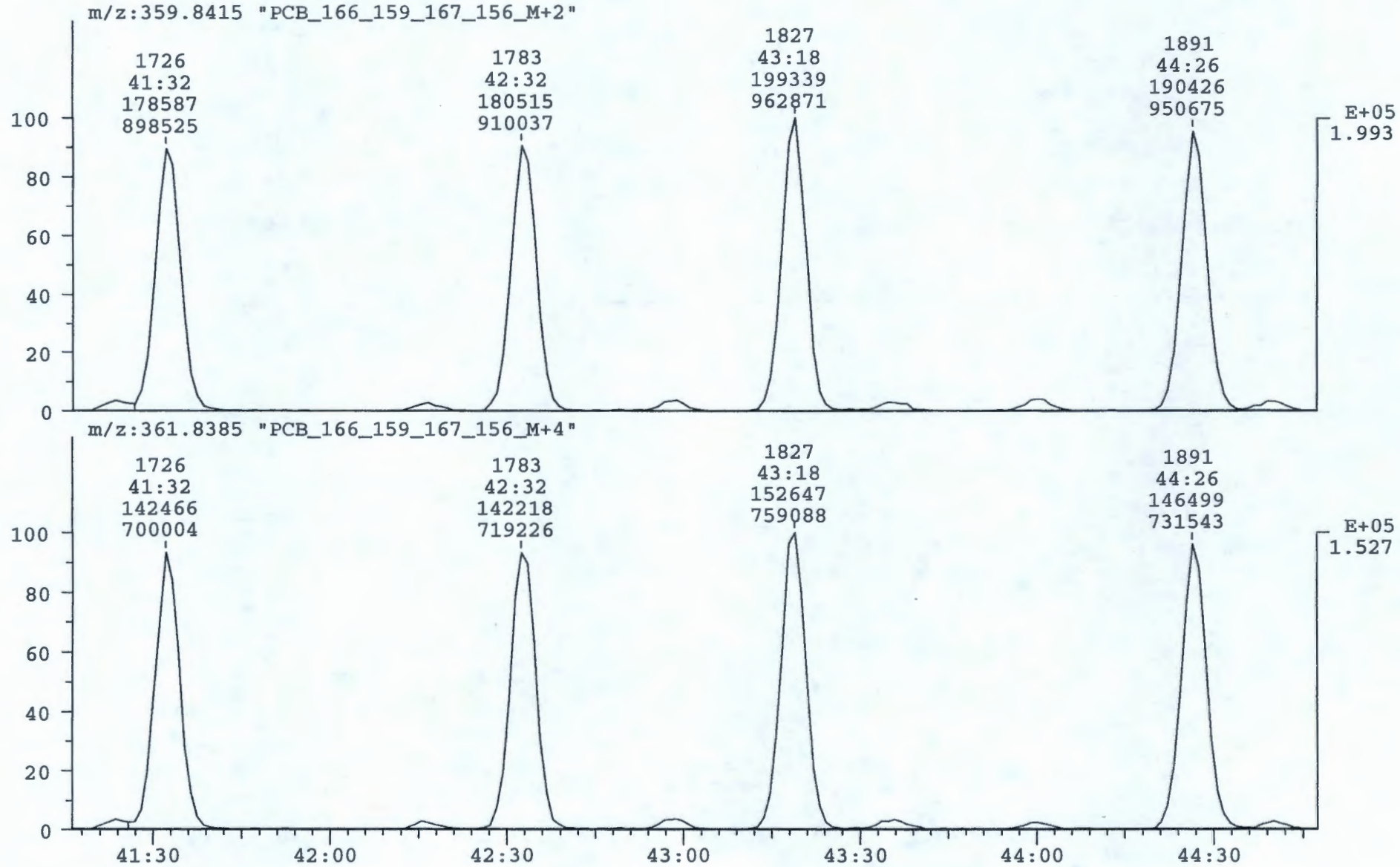
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  36:12      1423
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1313 > 1538          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



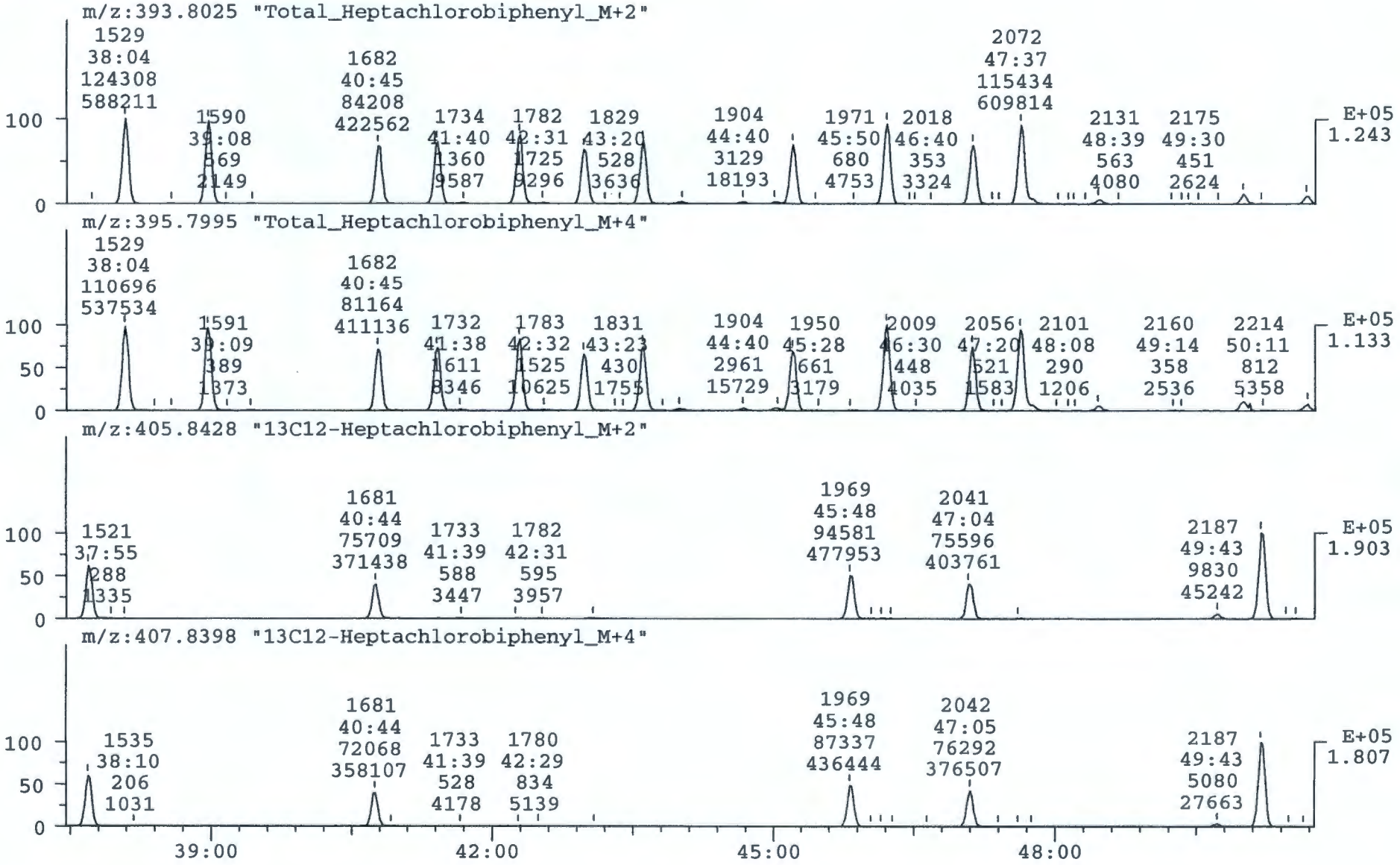
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  39:30      1611
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  11
Peak:  100.00  ppm     Label wndw:   1531 > 1691           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



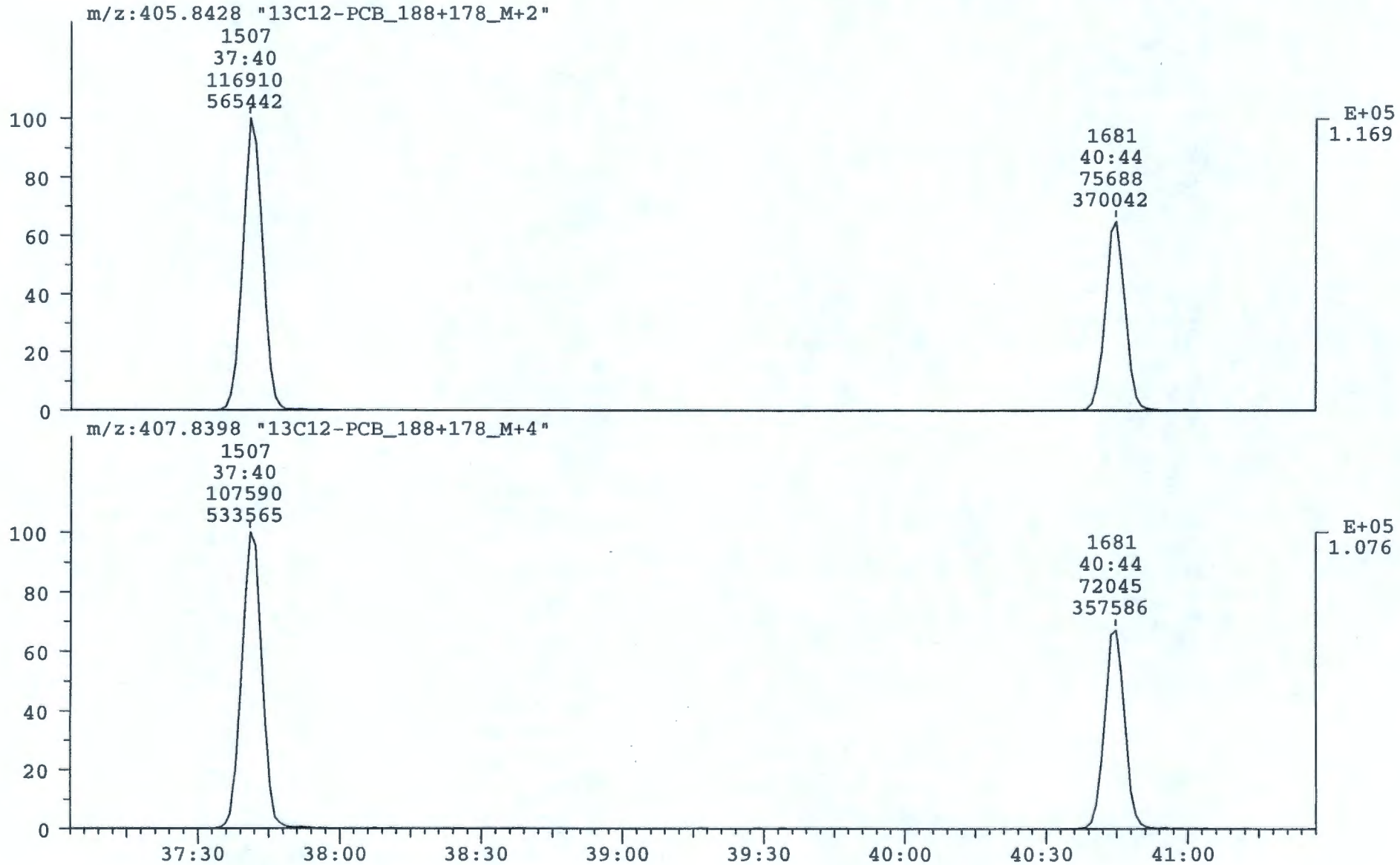
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  43:01      1811
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1711 > 1911           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



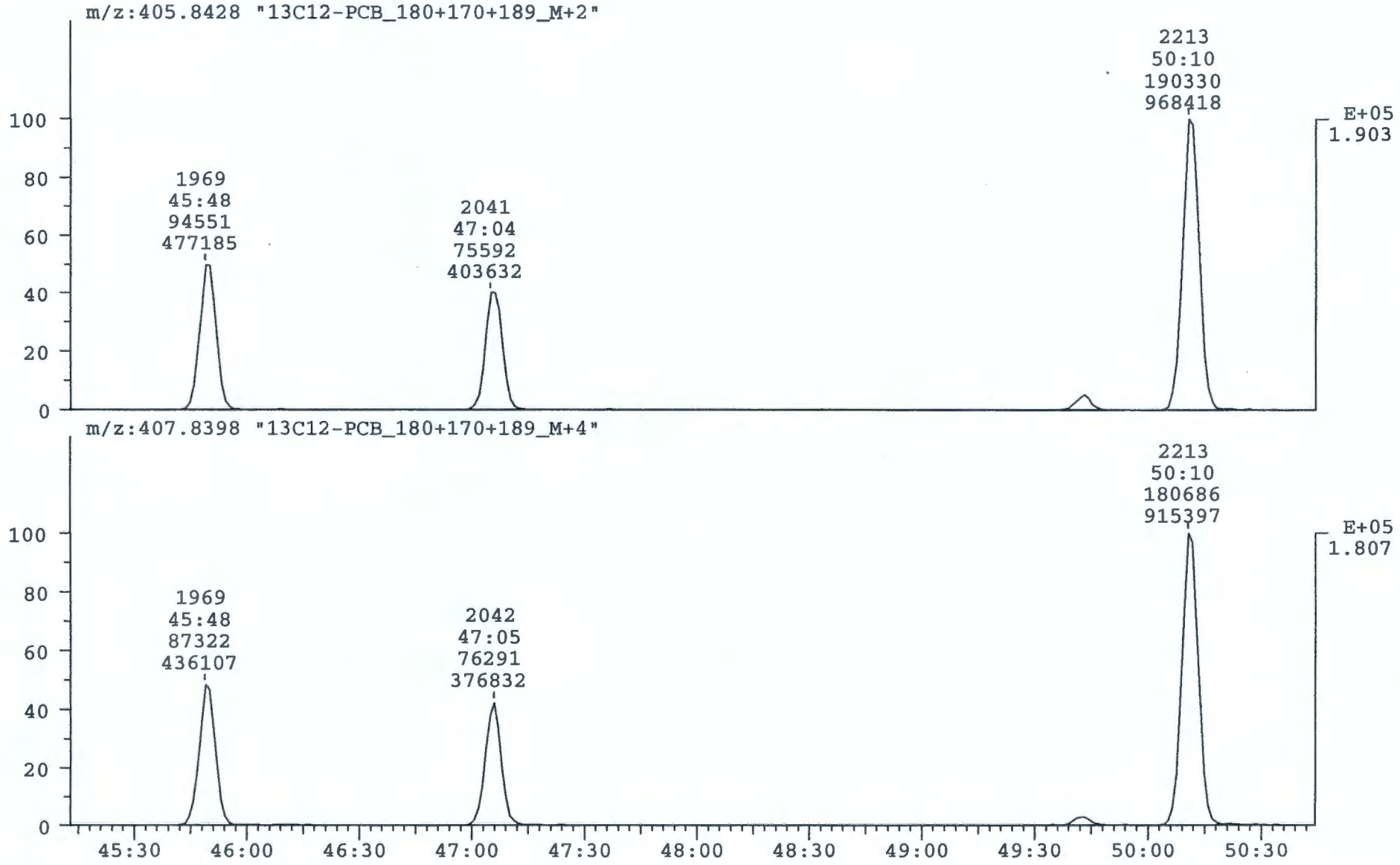
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  44:06      1872
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
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
```



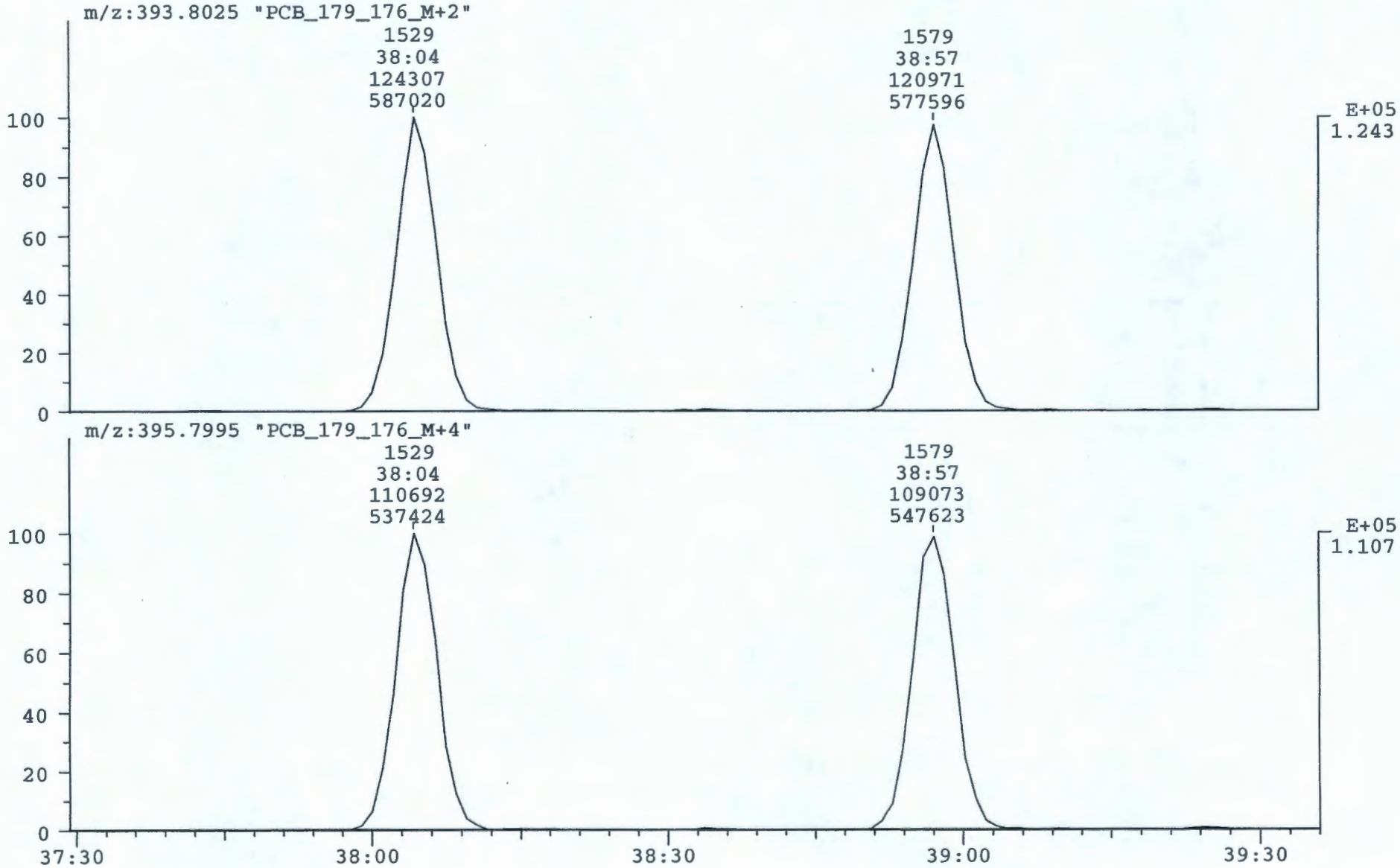
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  39:14      1596
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  11
Peak:  100.00  ppm     Label wndw:   1471 > 1721           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



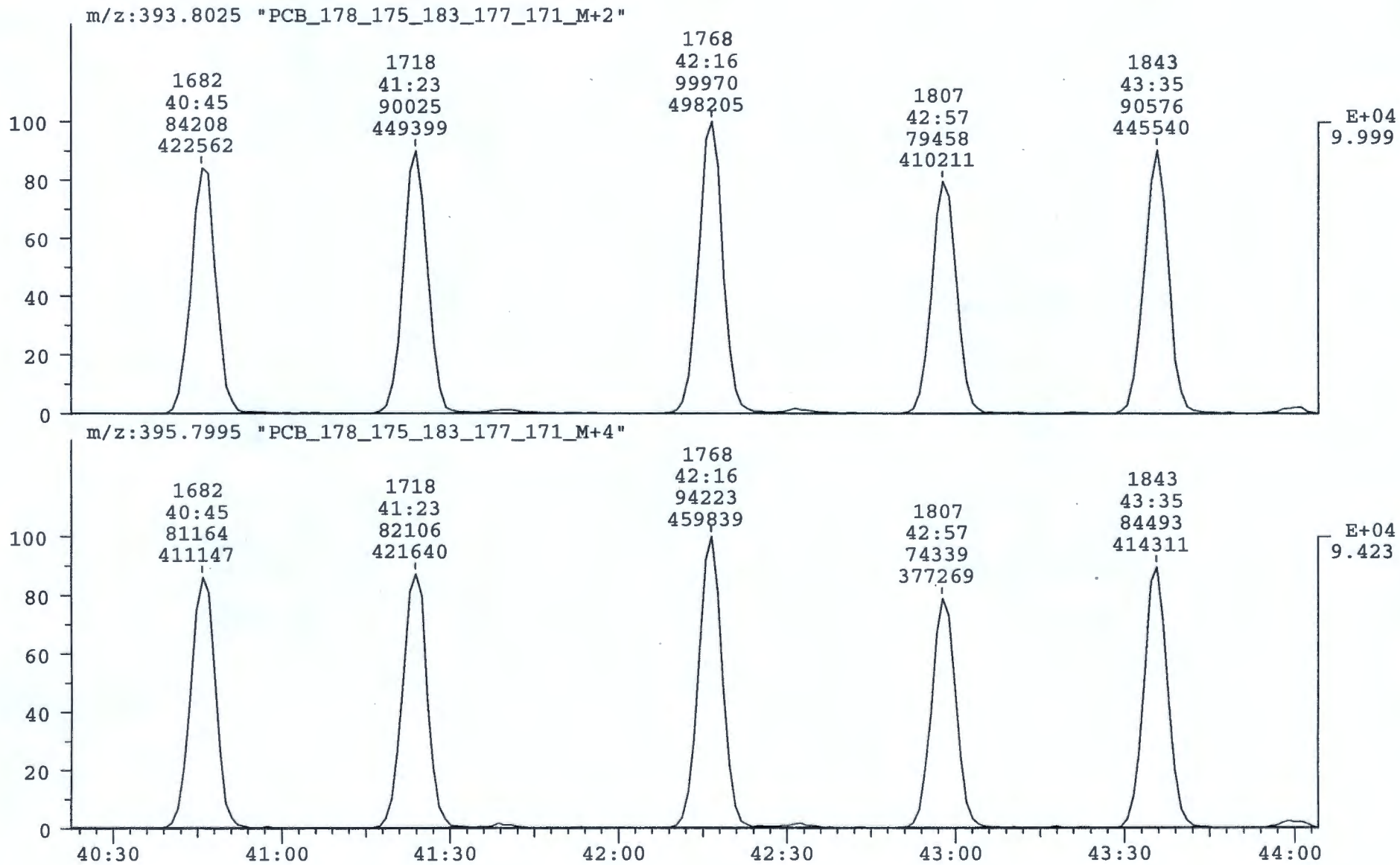
```
CHRO:  a0806m1r1                              10-Jun-08   Elapse:  48:01      2095
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1              Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1935 > 2245         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



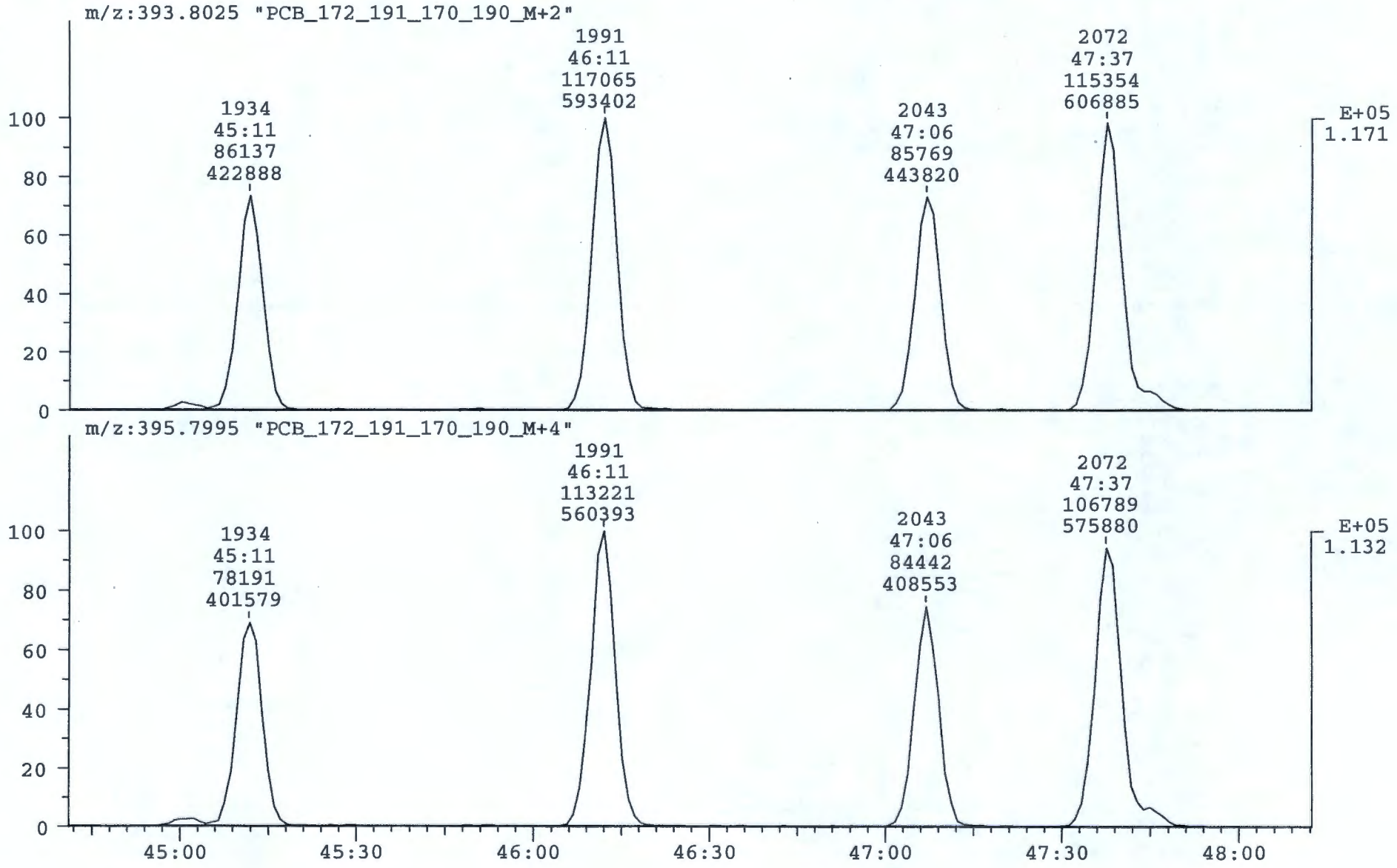
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  38:32      1556
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1496 > 1616          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



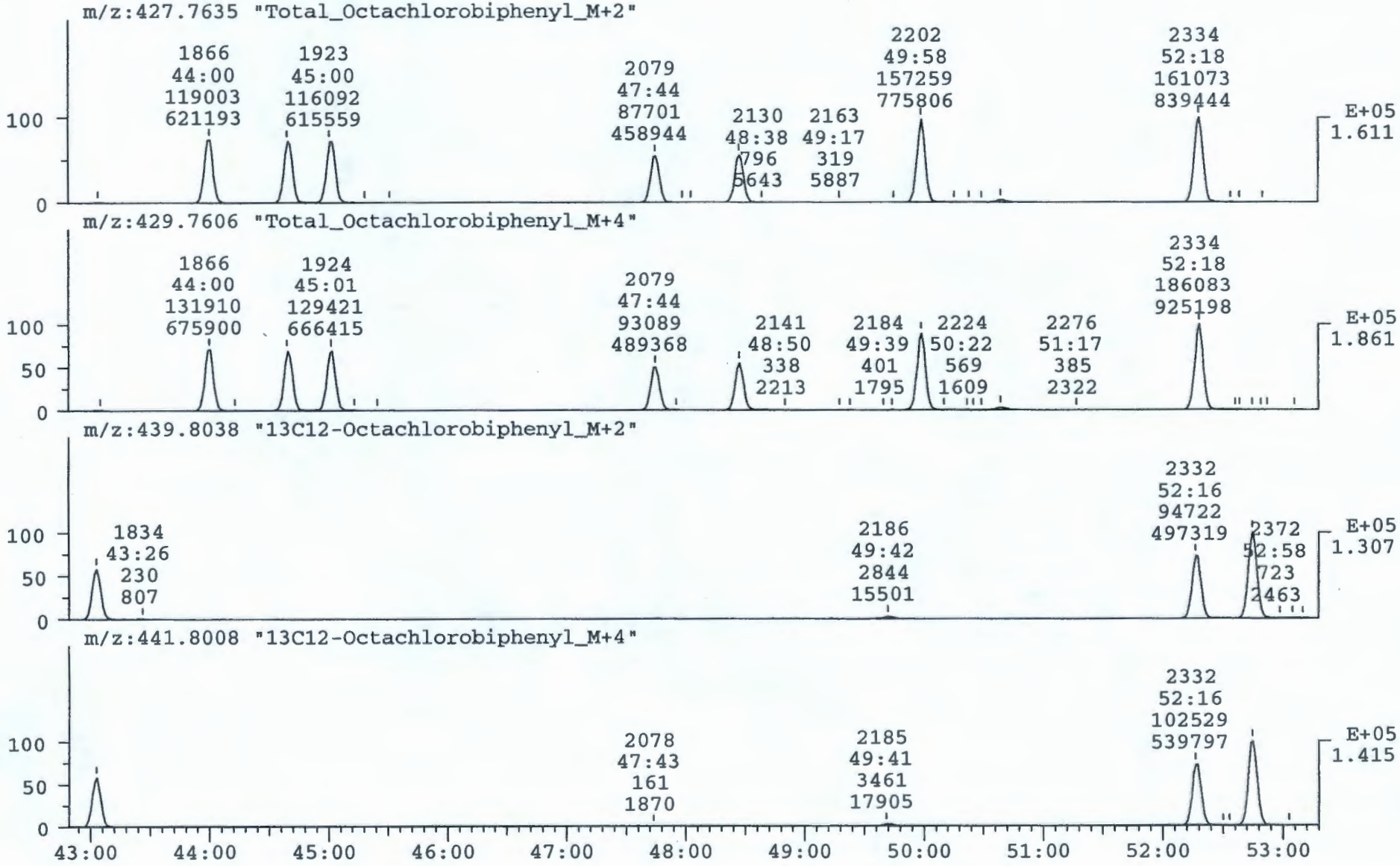
```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  42:13      1765
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1660 > 1870           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



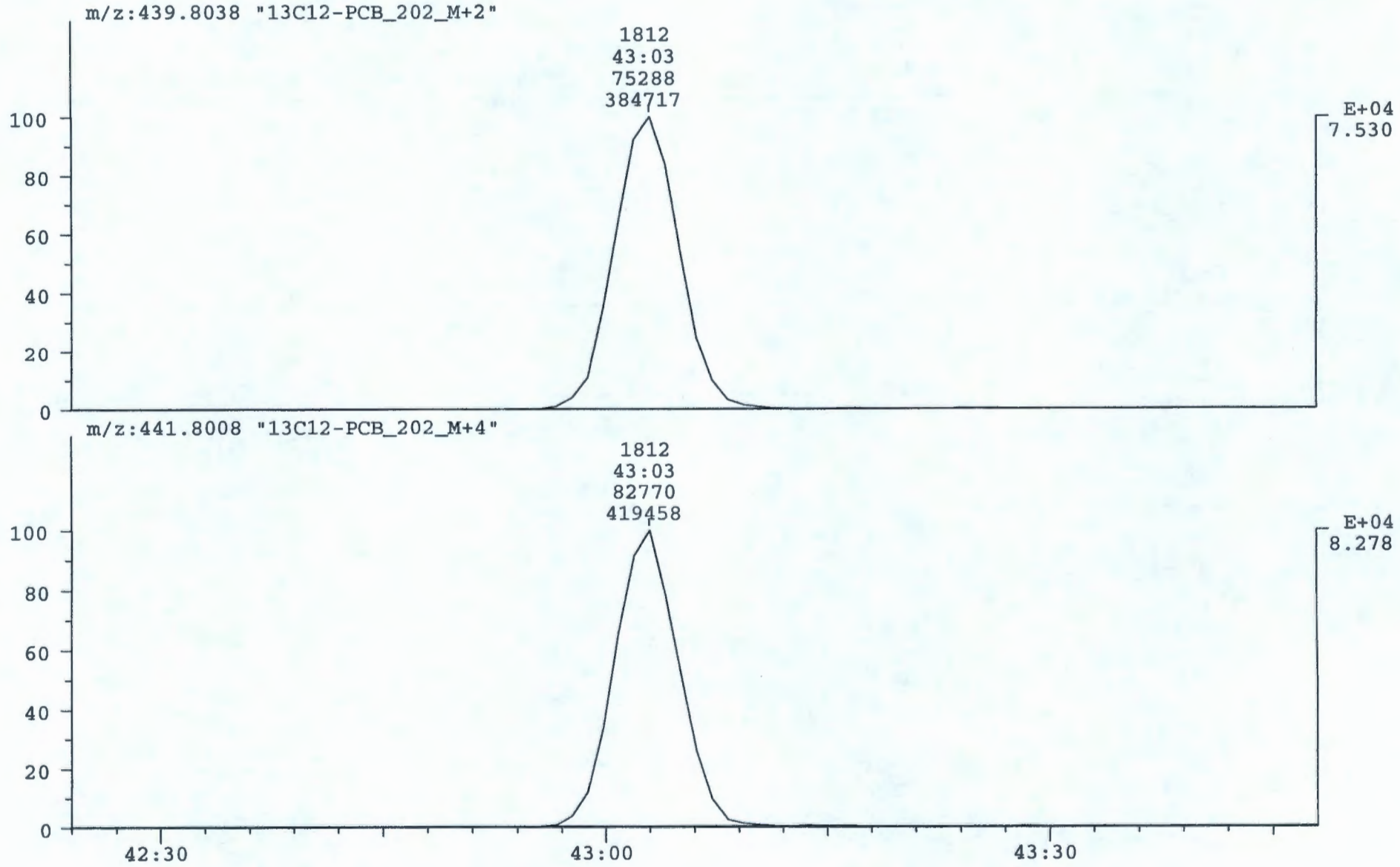
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  46:26      2005
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  11
Peak:  100.00  ppm     Label wndw:   1905 > 2105           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



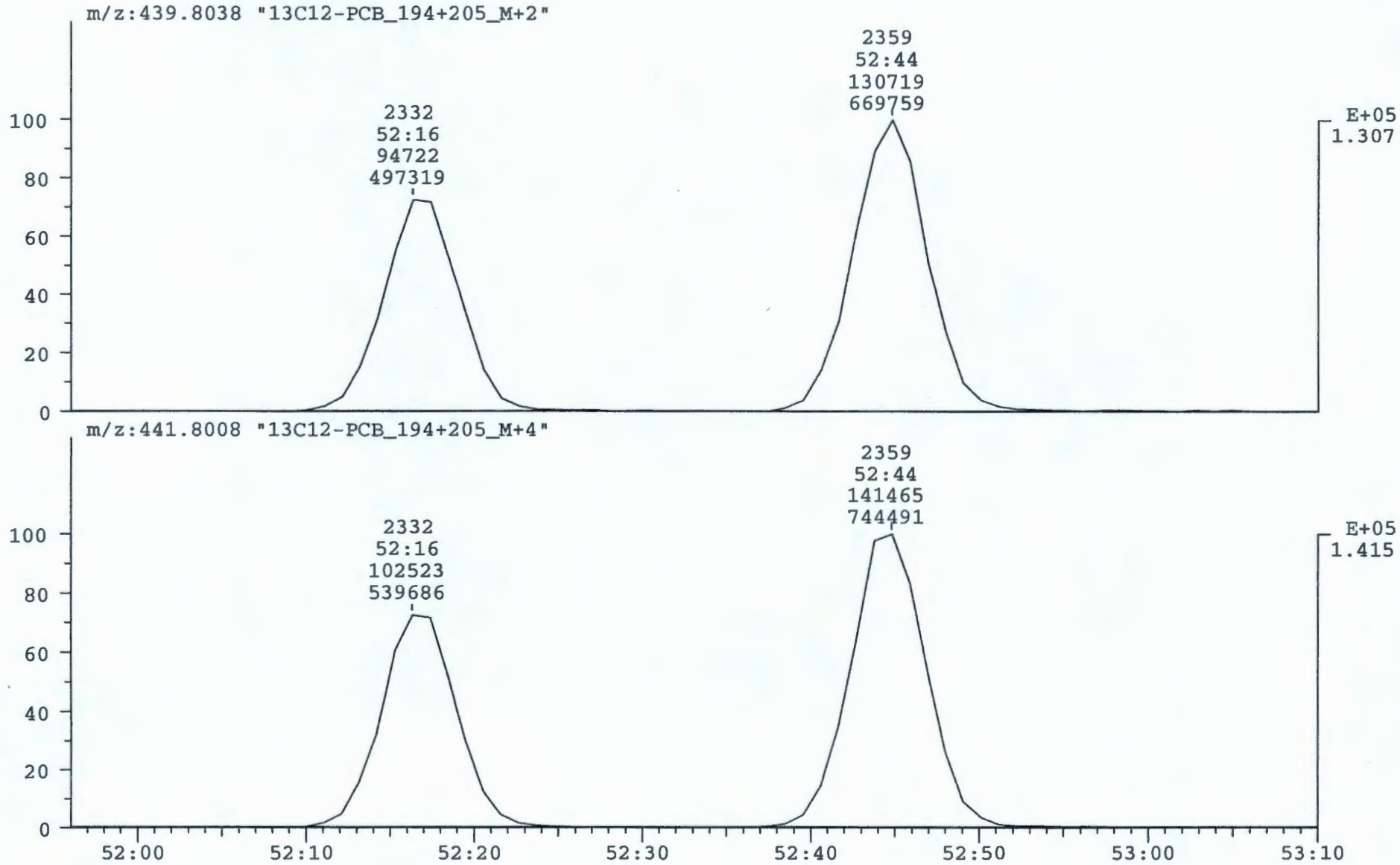
CHRO: a0806m1r1 10-Jun-08 Elapse: 48:02 2096
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 14:37:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1799 > 2390 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



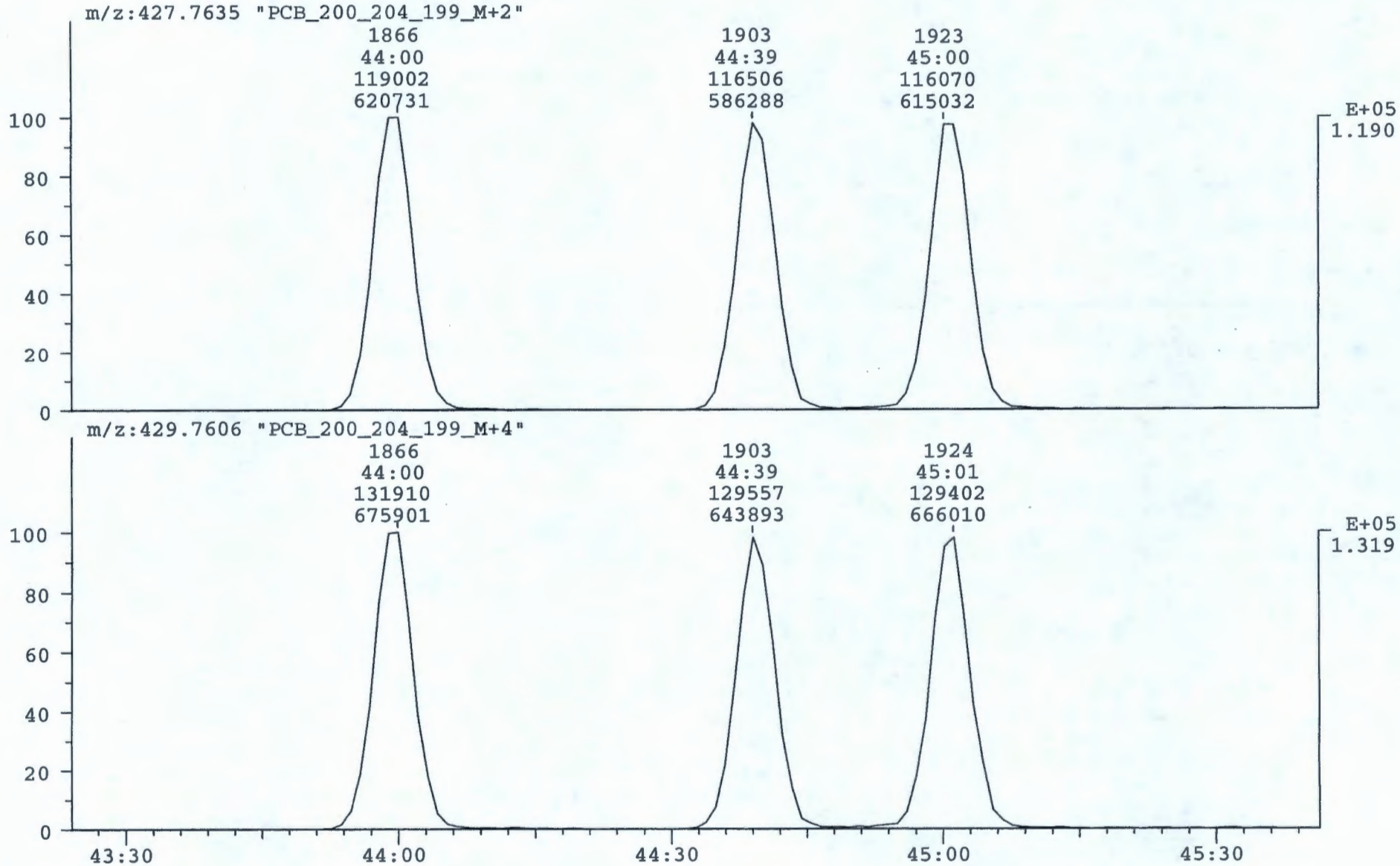
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  43:03      1812
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1775 > 1855          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



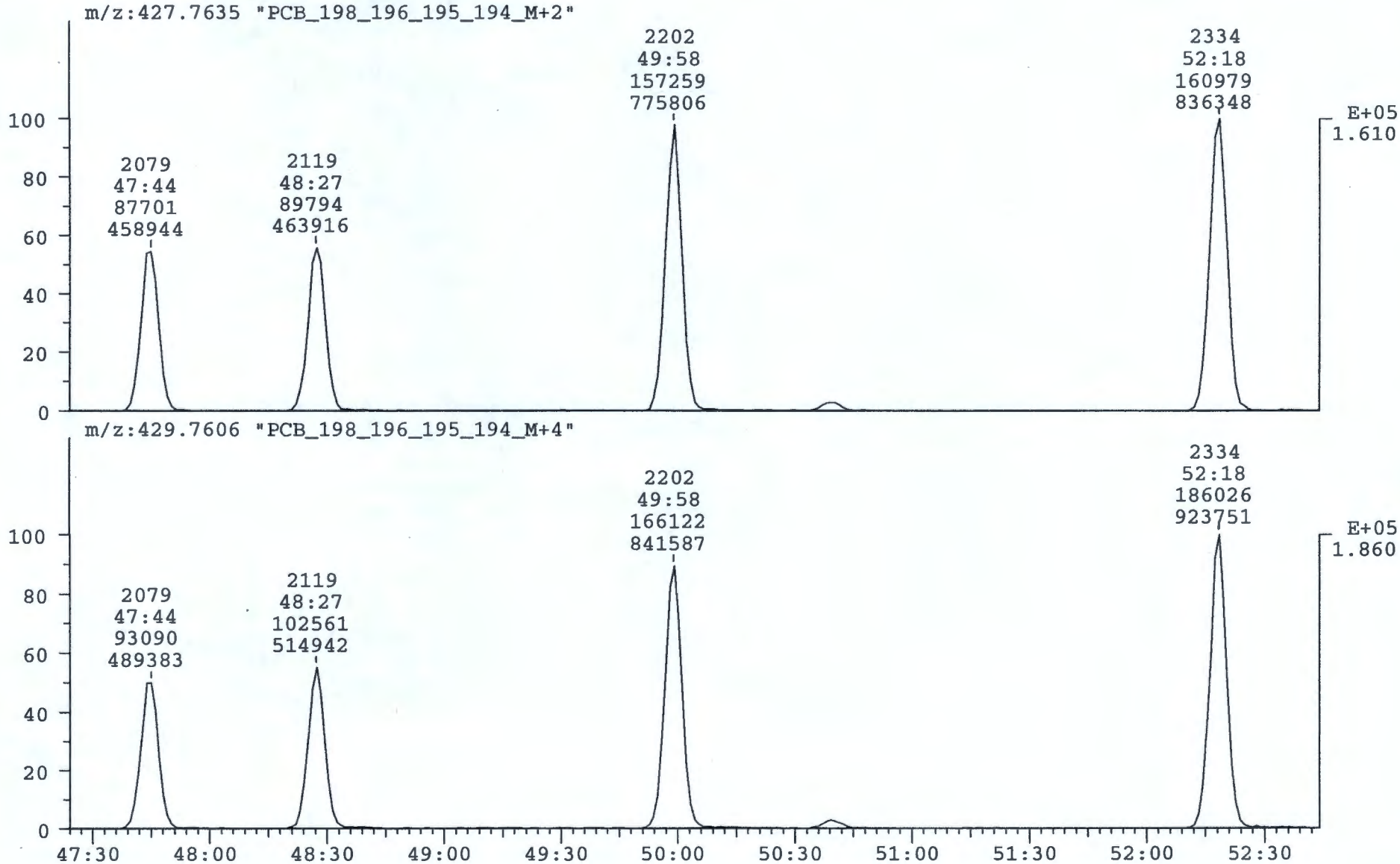
CHRO: a0806m1r1 10-Jun-08 Elapse: 52:33 2348
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 14:37:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 2313 > 2383 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



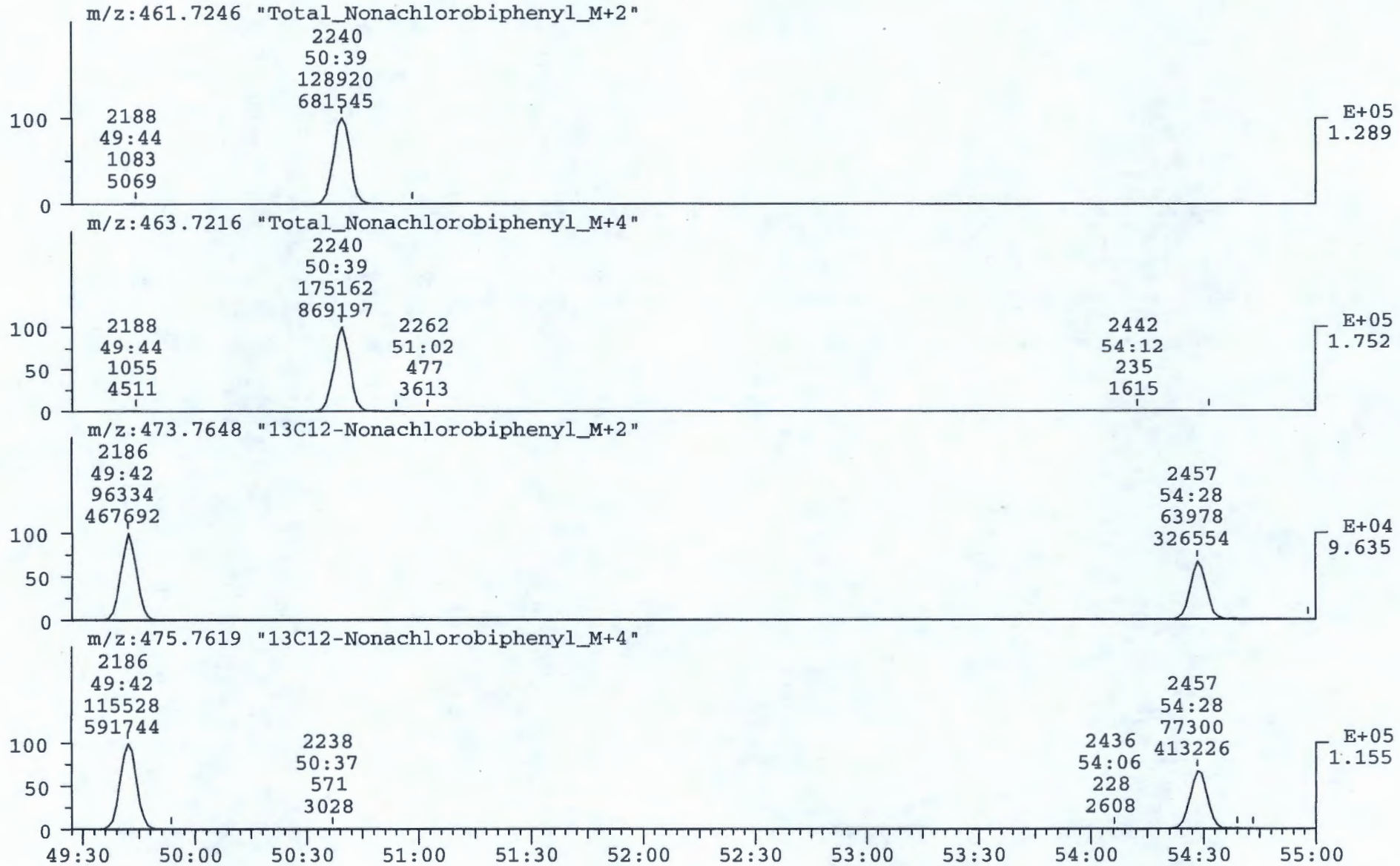
CHRO: a0806m1r1 10-Jun-08 Elapse: 44:32 1897
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 14:37:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1832 > 1962 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



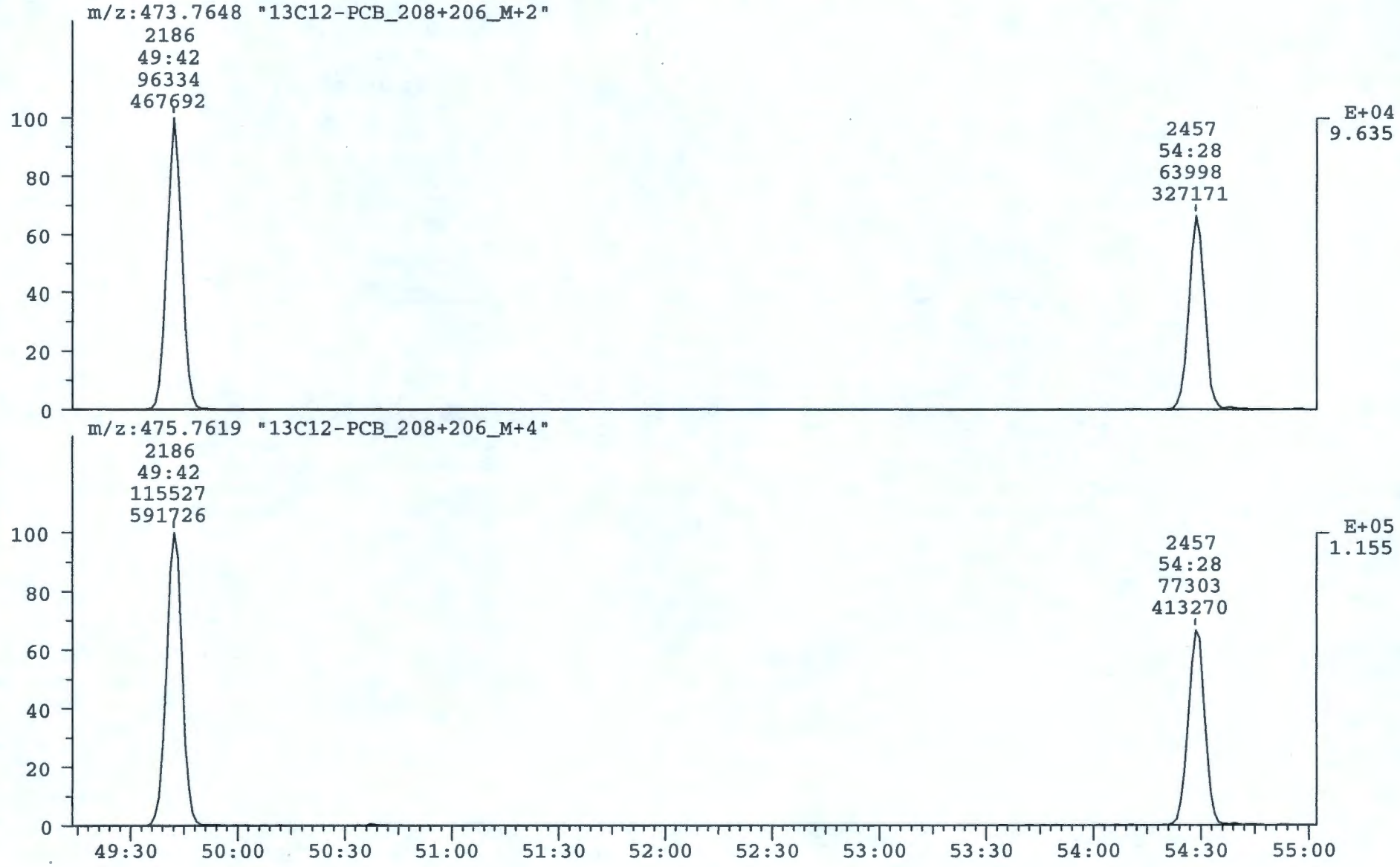
CHRO: a0806m1r1 10-Jun-08 Elapse: 50:04 2207
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 14:37:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 2059 > 2358 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



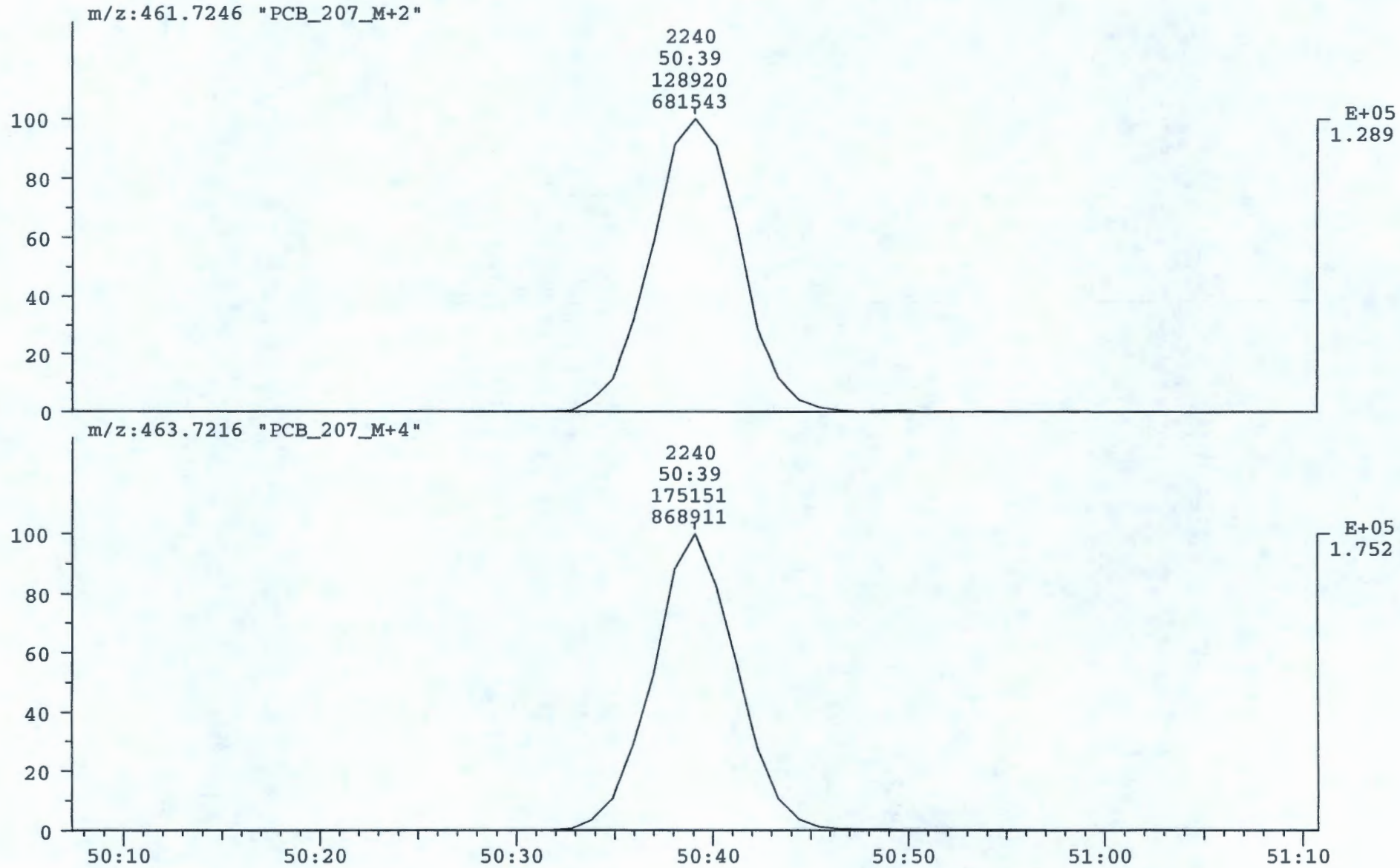
```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  52:13      2329
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
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
```



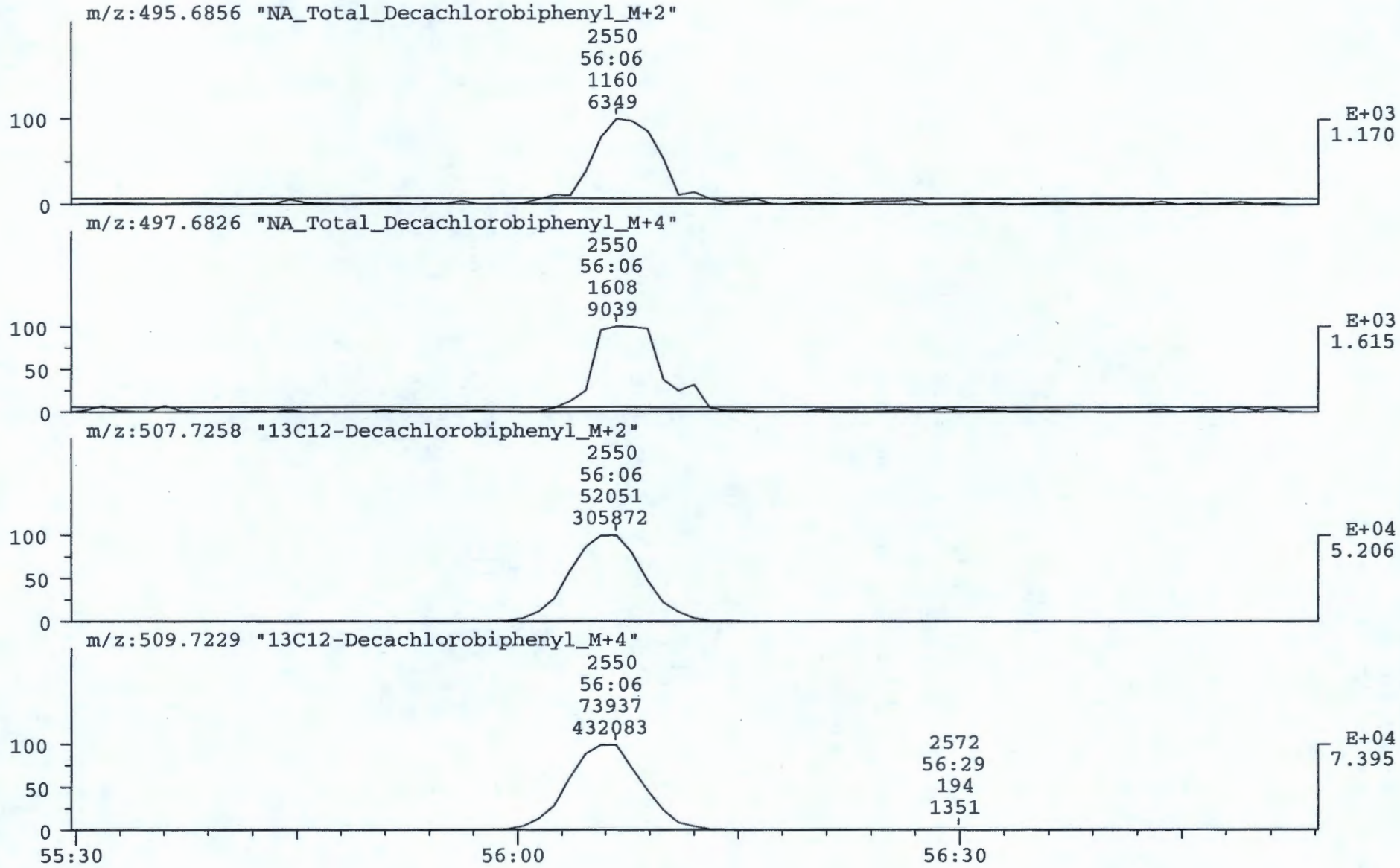
```
CHRO:  a0806m1r1                              10-Jun-08  Elapse:  52:07      2324
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1             Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2159 > 2489        Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a0806m1r1                                10-Jun-08  Elapse:  50:39      2240
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2210 > 2270          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a0806m1r1                                10-Jun-08   Elapse:  56:11      2555
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  14:37:42   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
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: a0806m1r1
Study: 2990:75 Mix 1
Sample: WO=2990:75Mix1 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: TA Knoxville
Comments: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Injected volume: 2.00
Sample from Vial 11
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 1 of list 080609
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	10:40 min	21:40 min	1.00 sec
# 2	21:40 min	14:12 min	35:52 min	1.00 sec
# 3	35:52 min	13:13 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	l	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 : 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 0.0 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.0953
BMASS	180.9888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.5765
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-19.0500
DRAWC	1.0000	DRAWS	0.0100	ECORR	1.0012
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0000
EDACR	23.0000	EDACZ	394.0000	ELEN	56.5000
EMULT	1.5200	ENS	460.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	146.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	600.9615	FSLOPE	54000000.0000	FVANAL	354.0000
FVINLET	255.0000	FVSRC	984.0000	FWIN	0.7000
GCTC	75.0000	GCTI	270.0000	GCTL	280.0000
HACCU	156.0000	HCURR	1.3627	HVANAL	1284.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4776.5520	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	1333.0000	LENSS	106.4000
LKM	180.9888	LM	800.0000	LMASS	180.9888
LMII	500.0000	MASS	180.9888	MDAC	2353344.3159

MDACR	23.0000	MRANGE	1032.0953	MSFM	2.0000
MSLM	3790.0000	NPEAK	200.0000	NSAM	200.0000
NSCAN	7179.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-4.3000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10106.3166	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	2.0000	SCIDLE	1.0000	SHIELD	2717.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.1400	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	2.2200	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.9888	XLENS	2000.0000
XLENSS	1.2000	YLENS	3276.0000	YLENSS	-27.6000

```
Scantype is  electric
Sourcemode is  EI POS

Analysis started at: 10-Jun-08 14:37:42.2

Autosampler has injected sample from vial 11
MID Time Window 1: Resolution is 9049
MID Time Window 2: Resolution is 8964
MID Time Window 3: Resolution is 10085
MID Time Window 4: Resolution is 10657
 Analysis stopped at: 10-Jun-08 15:34:44.8   (run time 57.02 minutes)
Analysis stopped because MID run finished
```

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Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r2.	Prep Date		SDG No	
Analysis ID	104455	Prep Exp Date		Date Received	
Analysis Date	06/10/08 19:43	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	100	170	40	68	0.59 *	/	
	PCB 2 (BZ)	14:04	00:00	0	914755	269079	295144	90353	3.40	ABV/AVV	
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	165	223	66	89	0.74 *	/	
	13C12-PCB 1	12:02	00:00	0	1436571	437719	629393	188357	3.28	AVV/AVV	
	13C12-PCB 3	14:14	00:00	0	1431479	436572	513061	159063	3.28	ABV/AVV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	138	278	55	111	0.50 *	/	
	PCB 10 (BZ)	14:41	00:00	0	364283	232200	113126	72104	1.57	ABV/AVV	
	PCB 9 (BZ)	16:30	00:00	0	381001	240971	111299	68410	1.58	ABV/ABV	
	PCB 6 (BZ)	16:54	00:00	0	365680	241430	105413	68290	1.51	AVV/AVV	
	PCB 8 (BZ)	17:21	00:00	0	395157	252251	117919	72615	1.57	AVV/AVV	
	PCB 14 (BZ)	18:59	00:00	0	373804	234566	100586	61679	1.59	AVV/ABV	M
	PCB 11 (BZ)	19:50	00:00	0	359054	231793	93349	60669	1.55	ABV/ABV	M
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	220	135	88	54	1.63	/	
	13C12-PCB 4	14:30	00:00	0	363318	236385	126292	83869	1.54	ABV/ABB	
	13C12-PCB 9	16:29	00:00	0	590829	388435	169400	114265	1.52	ABV/ABV	
	13C12-PCB 8	17:20	00:00	0	675722	431537	201328	129791	1.57	AVV/AVV	
	13C12-PCB 15	20:27	00:00	0	632591	408509	169128	107747	1.55	ABV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	115	128	46	51	0.90	/	
	PCB 30 (BZ)	19:29	00:00	0	172343	171196	45762	44257	1.01	ABV/ABV	M
	PCB 27 (BZ)	20:11	00:00	0	172845	167499	46388	43854	1.03	AVV/AVV	
	PCB 32 (BZ)	20:56	00:00	0	194784	187305	47282	46254	1.04	ABV/ABV	M
	PCB 34 (BZ)	22:12	00:00	0	584950	547804	144284	132434	1.07	ABV/AVV	M
	PCB 26 (BZ)	22:40	00:00	0	592477	553887	147571	141061	1.07	AVV/AVV	M
	PCB 31 (BZ)	23:13	00:00	0	644405	596930	153857	147917	1.08	AVV/AVV	M
	PCB 33 (BZ)	23:45	00:00	0	593870	565660	142180	137436	1.05	AVV/AVV	M
	PCB 36 (BZ)	25:43	00:00	0	616618	577022	144770	132780	1.07	ABV/ABV	
	PCB 38 (BZ)	26:40	00:00	0	589081	550422	126932	124319	1.07	ABV/AVV	D
	PCB 35 (BZ)	27:08	00:00	0	584378	541733	131544	121279	1.08	ABV/AVV	
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	258	175	103	70	1.47 *	/	
	13C12-PCB 19	17:39	00:00	0	206506	209156	62947	59930	0.99	AVV/AVV	
	13C12-PCB 32	20:55	00:00	0	365553	351994	94933	90451	1.04	AVV/AVV	
	13C12-PCB 31	23:12	00:00	0	1061457	967455	265543	240072	1.10	AVV/ABV	
	13C12-PCB 28	23:30	00:00	0	1017519	932396	241351	219124	1.09	AVV/AVV	
	13C12-PCB 37	27:31	00:00	0	973736	882468	224073	200829	1.10	ABV/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	215	345	86	138	0.62 *	/	
	PCB 50 (BZ)	22:58	00:00	0	439581	544047	110863	134642	0.81	ABV/ABV	M

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

TestAmerica
Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r2.	Prep Date		SDG No	
Analysis ID	104455	Prep Exp Date		Date Received	
Analysis Date	06/10/08 19:43	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 45 (BZ)	23:37	00:00	0	385632	478557	89506	111232	0.81	ABB/ABB	M
	PCB 52 (BZ)	25:22	00:00	0	457675	571258	107213	133270	0.80	ABV/ABV	D
	PCB 49 (BZ)	25:51	00:00	0	464339	579640	102674	131337	0.80	AVV/AVV	DM
	PCB 75 (BZ)	26:42	00:00	0	636083	789938	145169	176802	0.81	AVV/AVV	DM
	PCB 41 (BZ)	27:17	00:00	0	379047	481093	84742	104342	0.79	AVV/AVV	D
	PCB 72 (BZ)	28:25	00:00	0	625536	785435	145024	178863	0.80	ABV/ABV	
	PCB 57 (BZ)	29:08	00:00	0	603334	749564	133530	168930	0.80	ABV/AVV	
	PCB 63 (BZ)	29:49	00:00	0	622531	775657	140433	176008	0.80	AVV/ABV	
	PCB 66 (BZ)	30:29	00:00	0	620159	770823	136032	171549	0.80	ABB/ABB	
	PCB 79 (BZ)	33:18	00:00	0	669207	815752	141867	172196	0.82	ABV/ABV	
	PCB 78 (BZ)	33:51	00:00	0	598683	746436	126655	158978	0.80	AVV/AVV	
	PCB 81 (BZ)	34:18	00:00	0	597754	765097	125030	162059	0.78	AVV/AVV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	110	100	44	40	1.10 *	/	
	13C12-PCB 54	20:46	00:00	0	217150	279675	55357	71597	0.78	ABV/AVV	
	13C12-PCB 52	25:20	00:00	0	360557	456221	80680	106432	0.79	ABV/ABV	
	13C12-PCB 79	33:15	00:00	0	549993	703328	118289	148474	0.78	ABV/ABV	
	13C12-PCB 81	34:17	00:00	0	478199	593869	104604	128942	0.81	ABV/ABV	
	13C12-PCB 77	34:51	00:00	0	477909	603958	101562	131823	0.79	ABV/ABV	
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	168	113	67	45	1.49	/	
	PCB 96 (BZ)	26:42	00:00	0	486932	292684	111670	66446	1.66	ABV/ABV	
	PCB 103 (BZ)	28:36	00:00	0	405678	241406	89342	52648	1.68	AVV/AVV	D
	PCB 95 (BZ)	29:17	00:00	0	369994	228075	79959	47803	1.62	ABV/AVV	
	PCB 88 (BZ)	30:02	00:00	0	350852	212102	75311	45319	1.65	AVV/AVV	
	PCB 89 (BZ)	30:52	00:00	0	337815	210829	71517	45502	1.60	ABV/ABV	
	PCB 92 (BZ)	31:37	00:00	0	363595	222042	76987	46439	1.64	ABV/ABV	D
	PCB 113 (BZ)	32:09	00:00	0	478632	294480	102492	64746	1.63	AVV/AVV	
	PCB 83 (BZ)	32:42	00:00	0	312226	190124	64656	39063	1.64	AVV/ABV	
	PCB 119 (BZ)	33:17	00:00	0	525861	315221	112569	66916	1.67	ABV/ABV	DM
	PCB 87 (BZ)	33:24	00:00	0	356609	212924	74865	46582	1.67	AVB/AVB	M
	PCB 85 (BZ)	34:02	00:00	0	381956	234879	82764	47640	1.63	ABV/ABB	DM
	PCB 82 (BZ)	34:32	00:00	0	315432	191818	65504	37712	1.64	ABV/AVV	
	PCB 120 (BZ)	35:20	00:00	0	529784	321921	107705	67517	1.65	ABB/ABB	D
	PCB 124 (BZ)	36:30	00:00	0	1059404	659813	223022	135992	1.61	AVV/AVV	D
	PCB 106 (BZ)	36:58	00:00	0	1084935	677335	218926	138661	1.60	AVV/AVV	
	PCB 122 (BZ)	37:33	00:00	0	1004353	627485	209022	131815	1.60	AVV/AVV	
	PCB 105 (BZ)	38:22	00:00	0	1067331	678975	225334	145605	1.57	AVV/AVV	
	PCB 127 (BZ)	39:49	00:00	0	1116202	694514	230678	149067	1.61	AVV/AVV	D
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	123	115	49	46	1.07 *	/	
	13C12-PCB 104	26:16	00:00	0	445454	274766	98040	60477	1.62	AVV/ABV	
	13C12-PCB 95	29:16	00:00	0	352598	223208	82514	48125	1.58	AVV/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

TestAmerica
Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r2.	Prep Date		SDG No	
Analysis ID	104455	Prep Exp Date		Date Received	
Analysis Date	06/10/08 19:43	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
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	13C12-PCB 101	32:11	00:00	0	357929	224045	75180	46175	1.60	AVV/AVV	
	13C12-PCB 111	34:52	00:00	0	449542	266939	94447	54847	1.68	ABV/ABV	
	13C12-PCB 123	36:50	00:00	0	948030	576935	194444	117109	1.64	AVV/ABV	
	13C12-PCB 118	37:09	00:00	0	1007210	611385	215163	127269	1.65	AVV/AVV	
	13C12-PCB 114	37:41	00:00	0	963116	582676	199182	116520	1.65	AVV/AVV	
	13C12-PCB 105	38:21	00:00	0	969299	588976	195993	121840	1.65	AVV/ABB	
	13C12-PCB 127	39:48	00:00	0	1060048	638322	221394	131297	1.66	ABV/AVV	
	13C12-PCB 126	41:25	00:00	0	1015861	627951	197954	125364	1.62	ABV/AVV	
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	198	170	79	68	1.16	/	
	PCB 152 (BZ)	32:11	00:00	0	344079	262229	72027	56941	1.31	ABV/ABV	D
	PCB 136 (BZ)	32:44	00:00	0	342721	261296	72701	53211	1.31	ABV/AVV	D
	PCB 148 (BZ)	34:30	00:00	0	257177	192662	52924	37945	1.33	ABV/ABV	
	PCB 151 (BZ)	35:06	00:00	0	264311	193567	53009	38076	1.37	ABV/ABV	
	PCB 144 (BZ)	35:40	00:00	0	266807	201498	52217	44546	1.32	ABV/ABV	D
	PCB 143 (BZ)	36:21	00:00	0	475963	373854	98825	77772	1.27	AVV/ABV	D
	PCB 142 (BZ)	36:59	00:00	0	453730	364451	88715	74487	1.24	AVV/AVV	D
	PCB 133 (BZ)	37:47	00:00	0	479212	382275	97148	76468	1.25	ABV/ABV	
	PCB 161 (BZ)	38:34	00:00	0	679227	526515	138087	106100	1.29	ABB/ABV	
	PCB 153 (BZ)	39:02	00:00	0	616442	479844	121547	97976	1.28	ABV/AVV	
	PCB 130 (BZ)	39:39	00:00	0	461069	366527	88884	73869	1.26	ABB/ABV	D
	PCB 129 (BZ)	40:23	00:00	0	448280	344941	87910	73950	1.30	ABB/ABV	
	PCB 166 (BZ)	41:31	00:00	0	690127	551091	138755	109390	1.25	AVV/AVV	
	PCB 159 (BZ)	42:32	00:00	0	692106	542067	142018	109840	1.28	ABV/AVB	
	PCB 167 (BZ)	43:17	00:00	0	709888	552412	147478	111852	1.29	AVV/AVV	
	PCB 156 (BZ)	44:26	00:00	0	714456	552383	137419	111303	1.29	ABV/ABV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	85	90	34	36	0.94 *	/	
	13C12-PCB 155	31:56	00:00	0	358918	280141	78821	58893	1.28	ABB/ABB	
	13C12-PCB 153	39:01	00:00	0	563194	429916	116060	86106	1.31	ABV/ABV	
	13C12-PCB 138	40:16	00:00	0	520409	408812	105615	80859	1.27	ABV/ABV	
	13C12-PCB 167	43:16	00:00	0	642734	503281	129664	101041	1.28	AVV/AVV	
	13C12-PCB 156	44:26	00:00	0	1242717	971340	159049	126355	1.28	AVV/ABV	D
	13C12-PCB 169	47:39	00:00	0	608465	472488	116504	89835	1.29	ABV/ABV	
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	140	148	56	59	0.95	/	
	PCB 179 (BZ)	38:03	00:00	0	450703	420620	91283	87147	1.07	ABV/ABV	D
	PCB 176 (BZ)	38:55	00:00	0	452295	417215	88952	83398	1.08	ABV/ABV	D
	PCB 178 (BZ)	40:45	00:00	0	339125	316105	65438	61386	1.07	ABV/ABV	
	PCB 175 (BZ)	41:22	00:00	0	349637	323990	69751	63477	1.08	ABV/ABV	
	PCB 183 (BZ)	42:15	00:00	0	377824	347163	76701	73471	1.09	ABV/ABV	
	PCB 177 (BZ)	42:57	00:00	0	314218	295679	61053	60754	1.06	ABV/ABV	D
	PCB 171 (BZ)	43:34	00:00	0	332317	312380	64851	62470	1.06	ABB/ABB	

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

TestAmerica
Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r2.	Prep Date		SDG No	
Analysis ID	104455	Prep Exp Date		Date Received	
Analysis Date	06/10/08 19:43	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

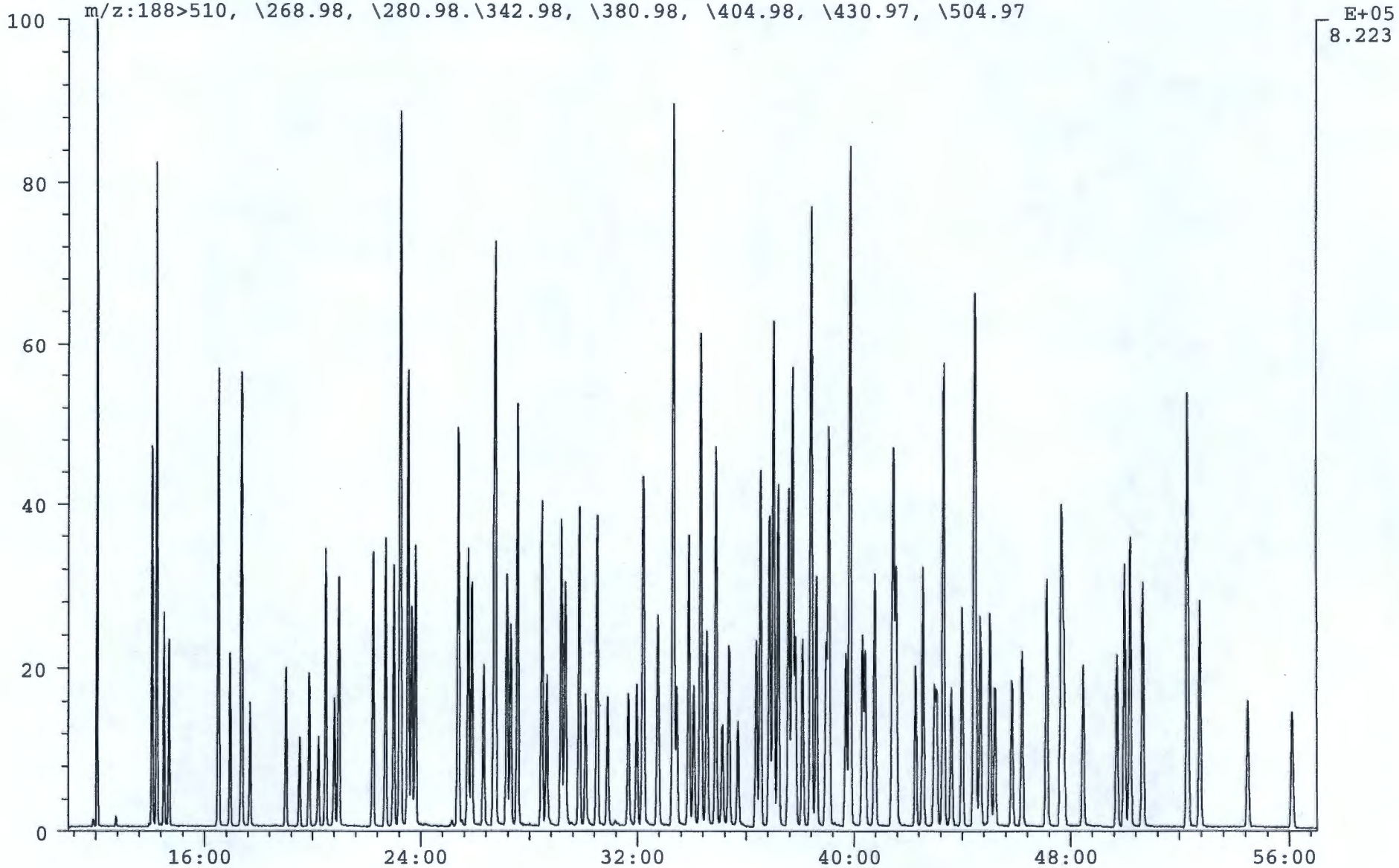
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	PCB 172 (BZ)	45:10	00:00	0	333466	310404	64908	61820	1.07	AVV/AVV	
	PCB 191 (BZ)	46:10	00:00	0	449239	411512	88596	79249	1.09	ABV/ABV	
	PCB 170 (BZ)	47:05	00:00	0	330372	309363	64583	59523	1.07	ABV/ABV	D
	PCB 190 (BZ)	47:37	00:00	0	461514	439002	85722	80444	1.05	AVV/ABB	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	113	110	45	44	1.02	/	
	13C12-PCB 188	37:40	00:00	0	436245	411827	93192	86582	1.06	ABV/ABV	
	13C12-PCB 178	40:43	00:00	0	292724	273482	58010	52799	1.07	ABV/ABV	
	13C12-PCB 180	45:48	00:00	0	362900	341902	71106	66194	1.06	ABV/ABV	
	13C12-PCB 170	47:04	00:00	0	307251	284700	59942	56557	1.08	ABV/ABV	
	13C12-PCB 189	50:10	00:00	0	758997	715597	148264	141467	1.06	ABV/ABV	
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	148	130	59	52	1.13 *	/	
	PCB 200 (BZ)/201 (IUPAC	43:58	00:00	0	489596	534525	99643	107591	0.92	ABV/ABV	
	PCB 204 (BZ)	44:38	00:00	0	462763	514986	89068	105482	0.90	ABV/ABV	
	PCB 199 (BZ)/200 (IUPAC	44:59	00:00	0	477392	527173	94950	103776	0.91	AVV/AVV	D
	PCB 198 (BZ)	47:43	00:00	0	340497	376862	68480	75779	0.90	ABV/ABV	
	PCB 196 (BZ)	48:26	00:00	0	350999	391911	67539	75373	0.90	ABV/ABV	
	PCB 195 (BZ)	49:58	00:00	0	581209	645626	116385	126988	0.90	AVV/AVV	D
	PCB 194 (BZ)	52:16	00:00	0	658805	705447	127047	139093	0.93	ABV/ABV	
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	90	100	36	40	0.90	/	
	13C12-PCB 202	43:02	00:00	0	287952	332630	57474	65505	0.87	ABB/ABV	
	13C12-PCB 194	52:16	00:00	0	382091	417104	73749	81785	0.92	ABB/ABV	
	13C12-PCB 205	52:44	00:00	0	539206	579730	105790	113598	0.93	ABV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	113	130	45	52	0.87	/	
	PCB 207 (BZ)	50:38	00:00	0	516328	652646	97105	124836	0.79	ABV/ABV	
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	133	138	53	55	0.96 *	/	
	13C12-PCB 208	49:41	00:00	0	365101	451242	69623	87236	0.81	ABV/ABV	
	13C12-PCB 206	54:28	00:00	0	261034	321467	51433	62370	0.81	AVV/AVV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	70	93	28	37	0.76	/	
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	93	85	37	34	1.09 *	/	
	13C12-PCB 209	56:05	00:00	0	239595	326026	42392	57237	0.73	AVB/AVB	

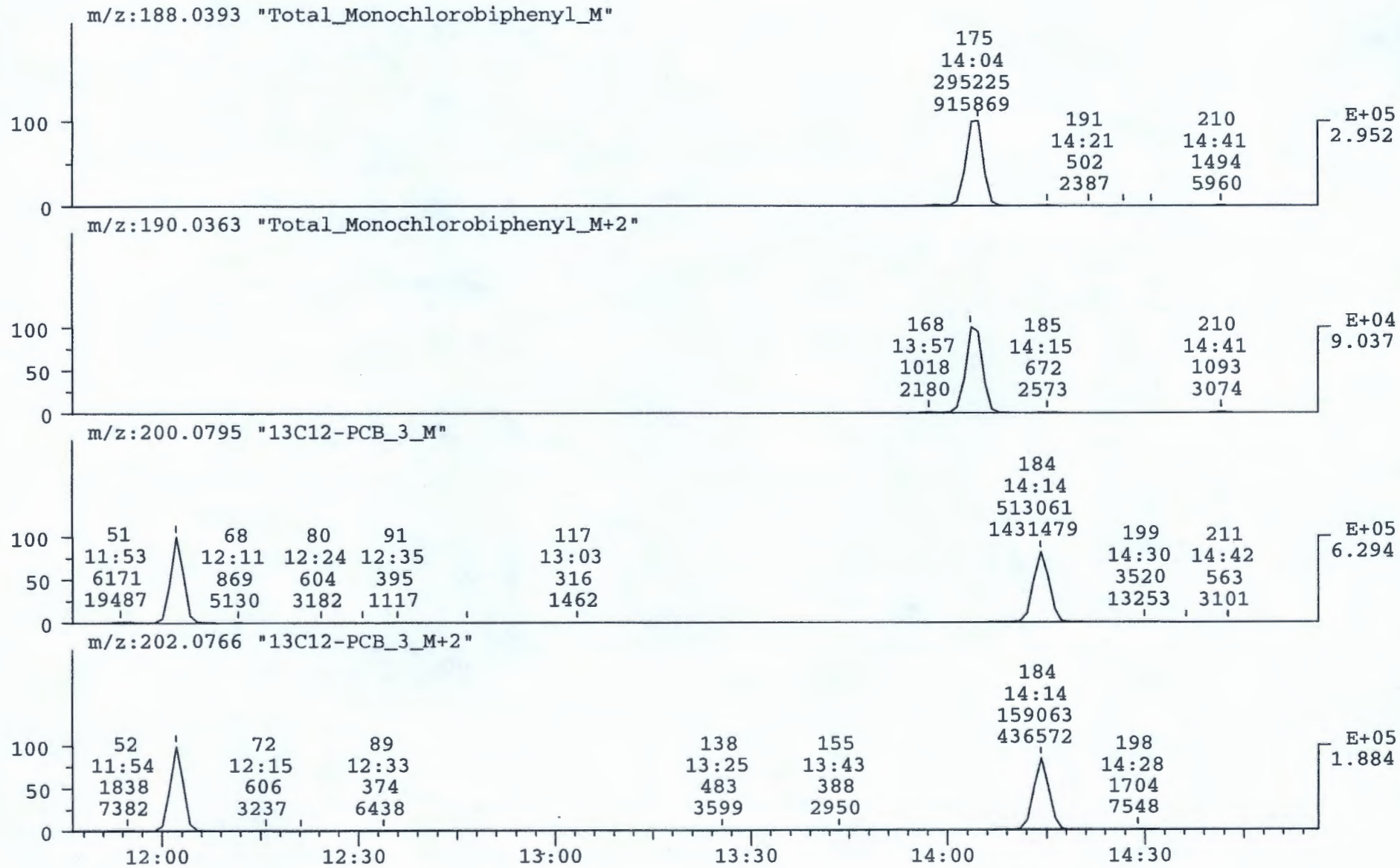
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Int DCG 6-11-08
C9/CDR36.2508

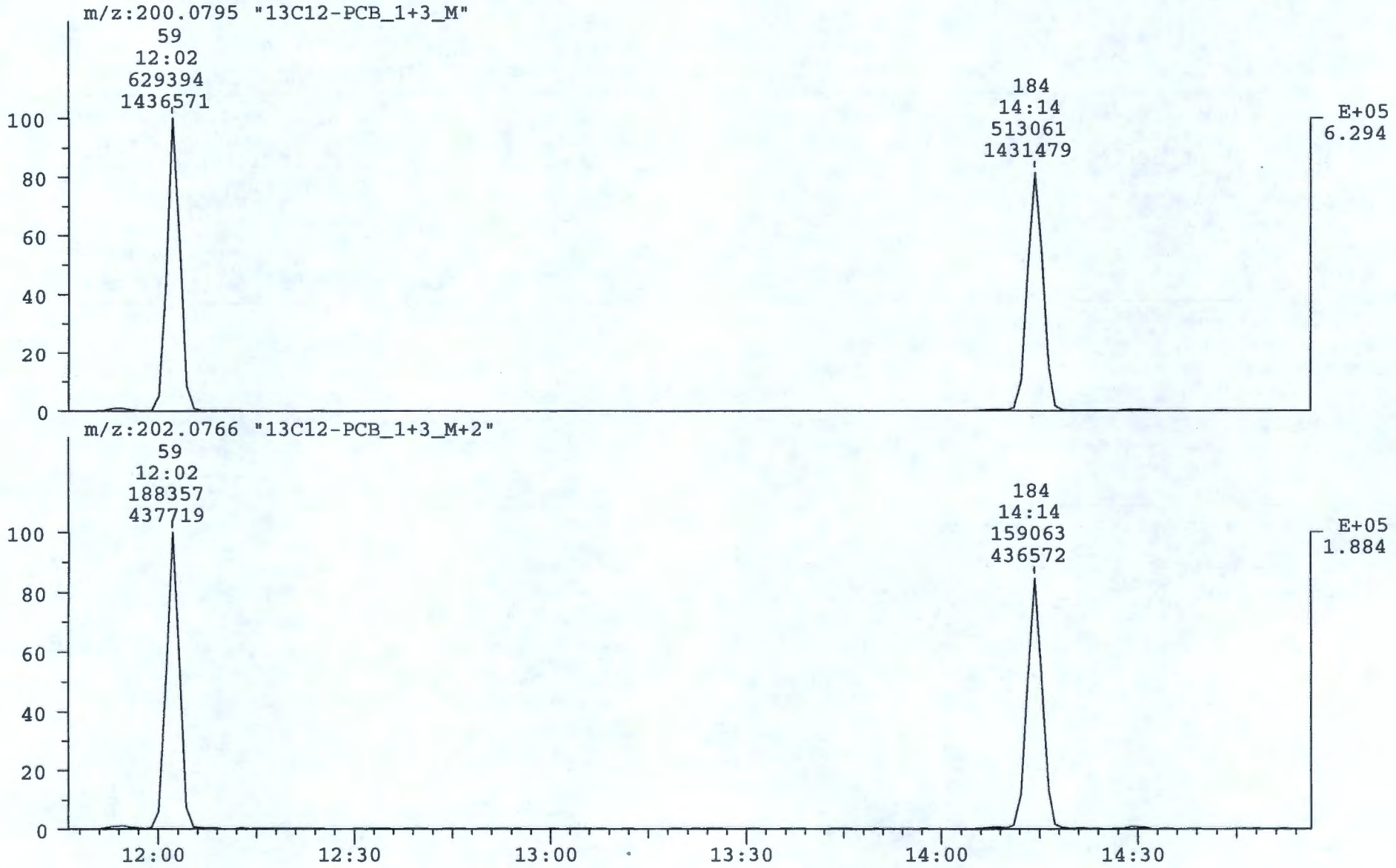
CHRO: a0806m1r2 10-Jun-08 Elapse: 56:09 2552
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 19:43:17 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 2 > 2601 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



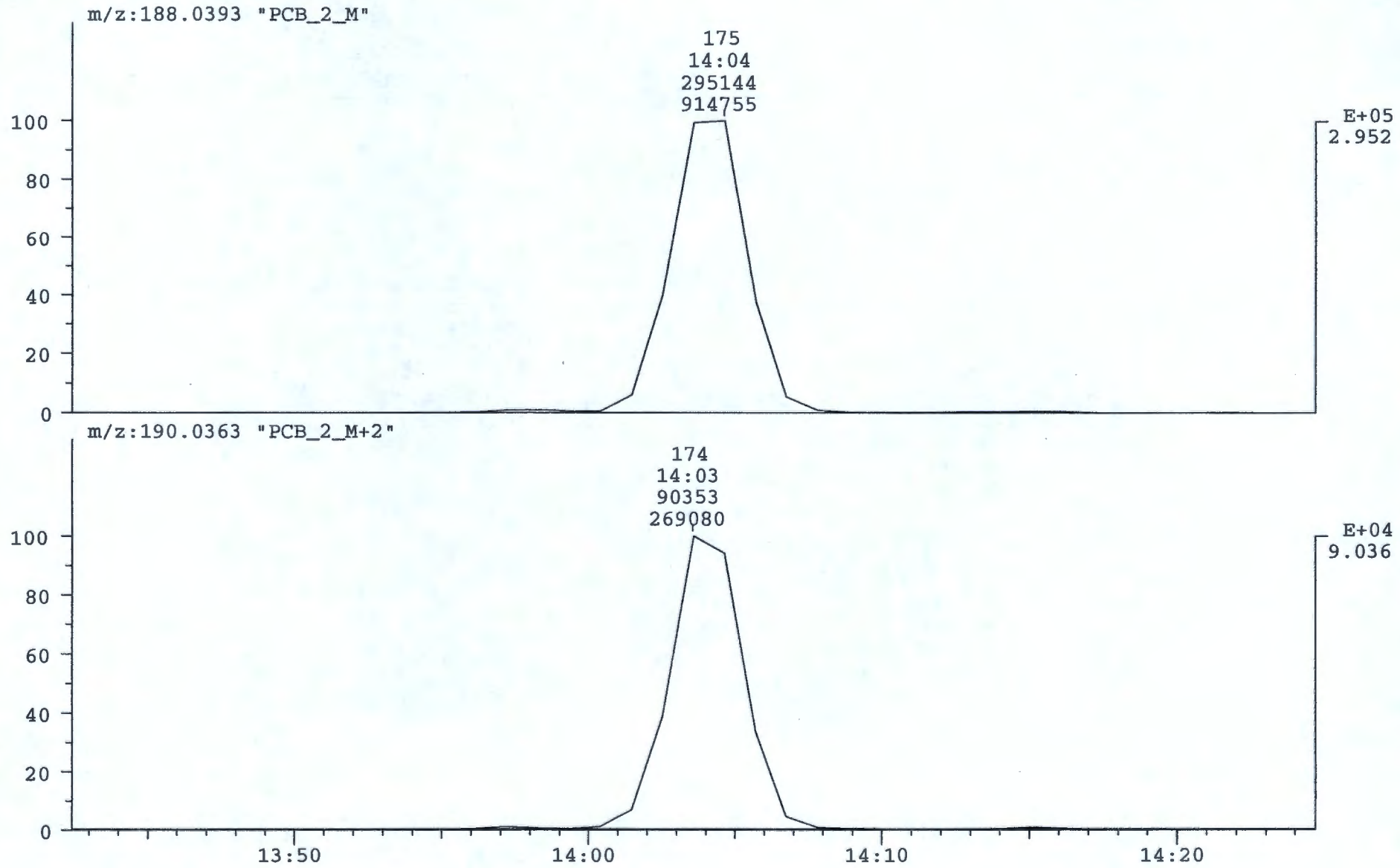
```
CHRO:  a0806m1r2                              10-Jun-08   Elapse:  13:21.3      134
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1              Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   44 > 224            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



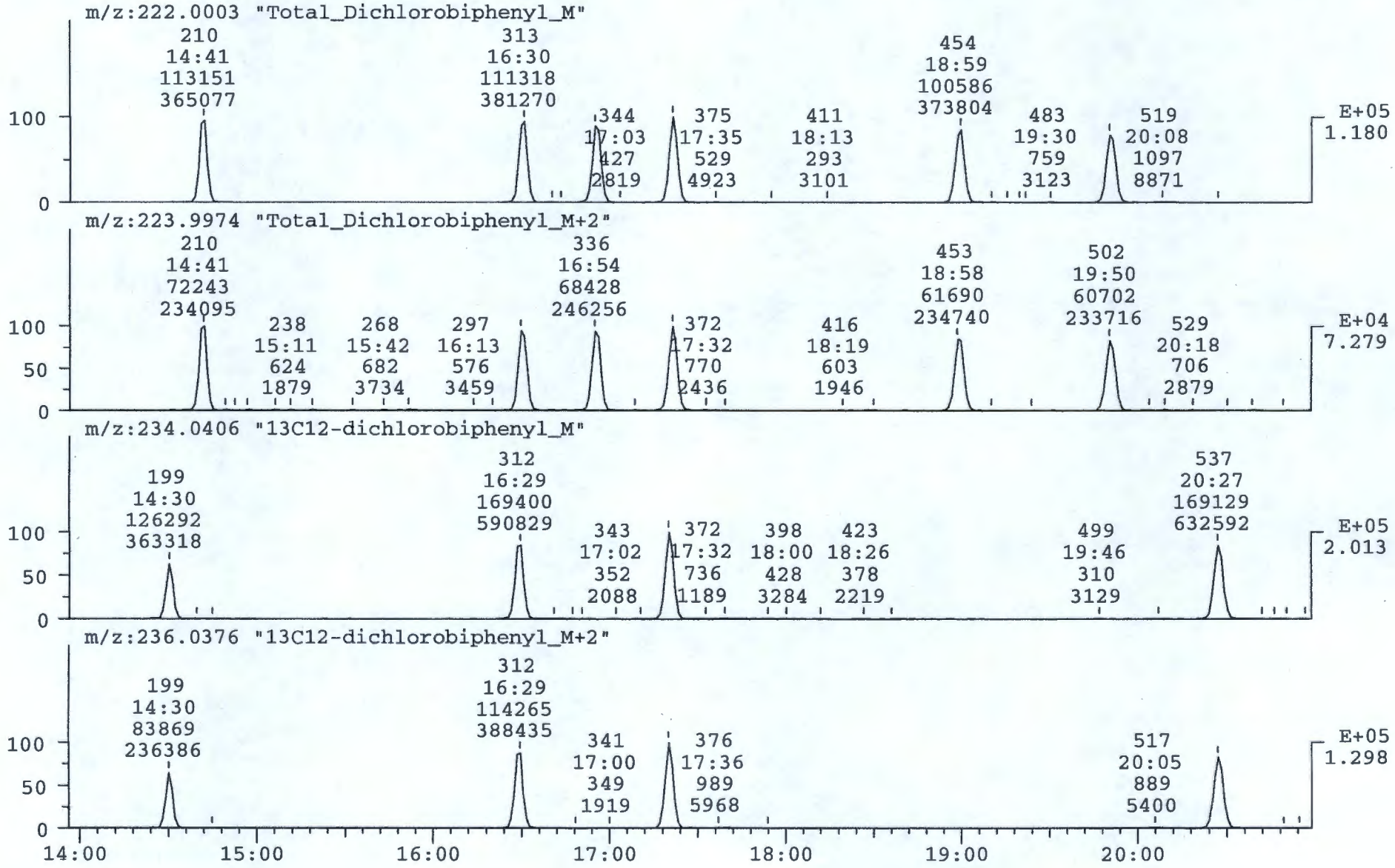
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  13:21.3      134
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   44 > 224             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



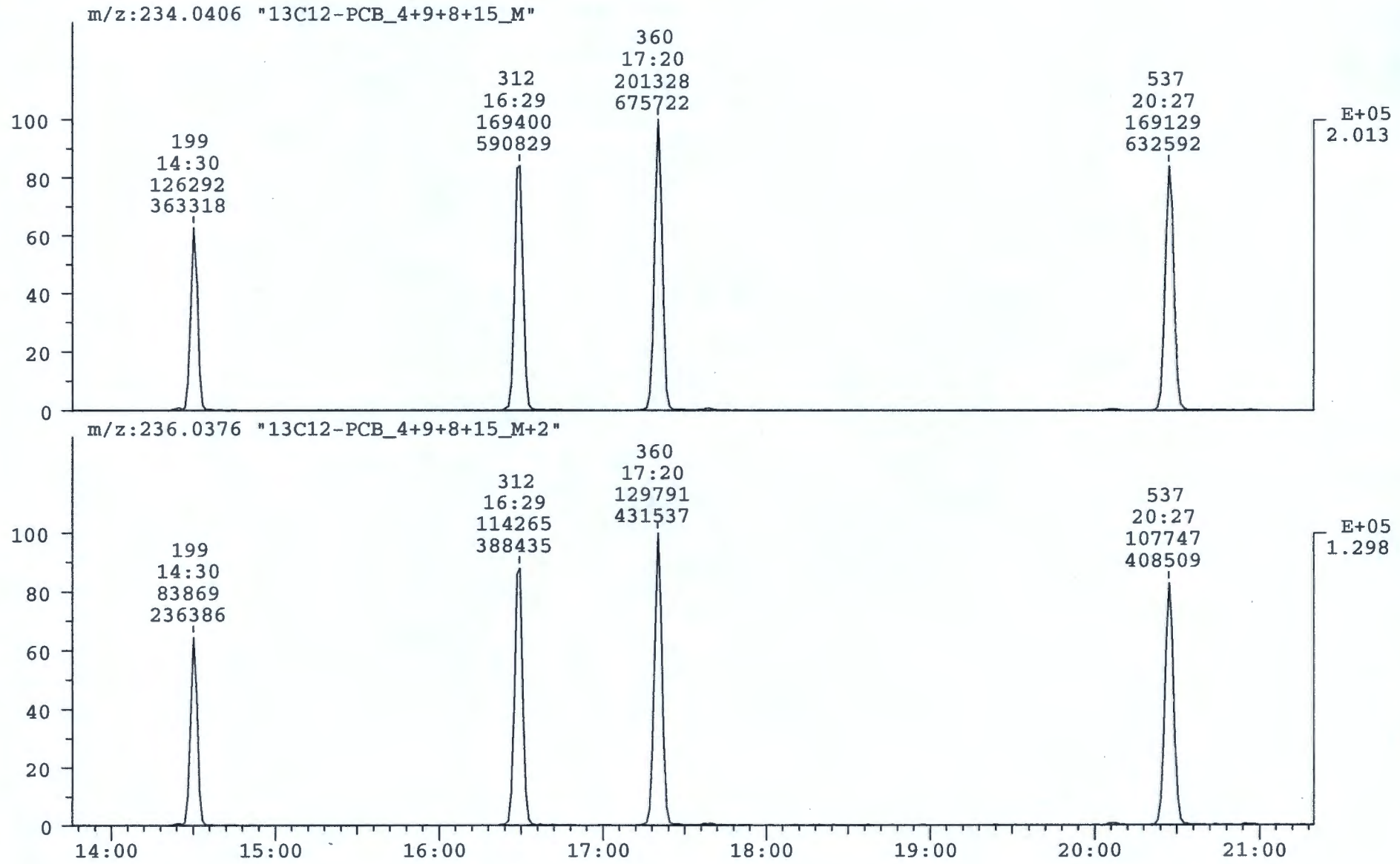
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  14:03.6      174
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   154 > 194            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



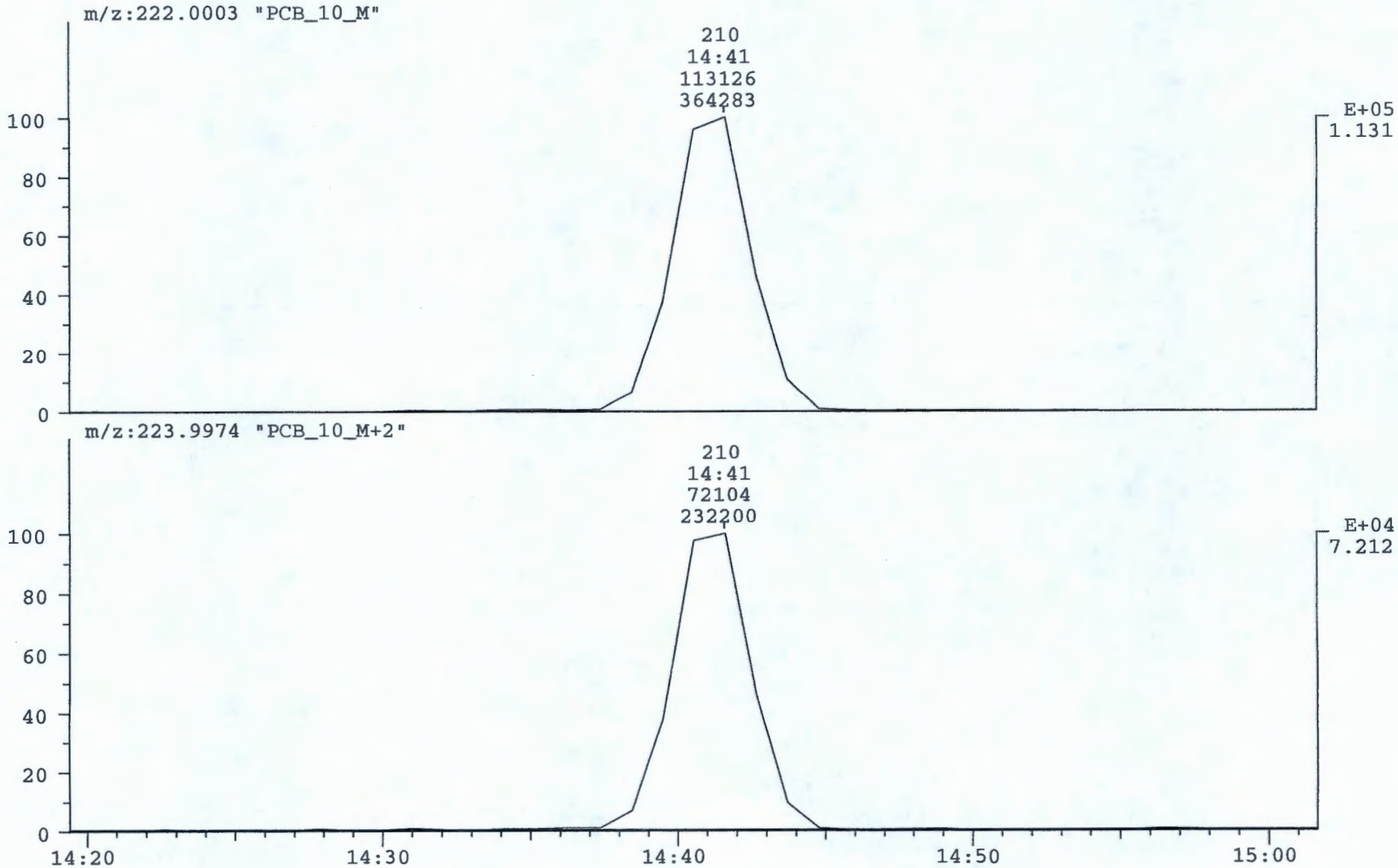
CHRO: a0806m1r2 10-Jun-08 Elapse: 17:27.4 367
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 19:43:17 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 167 > 567 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



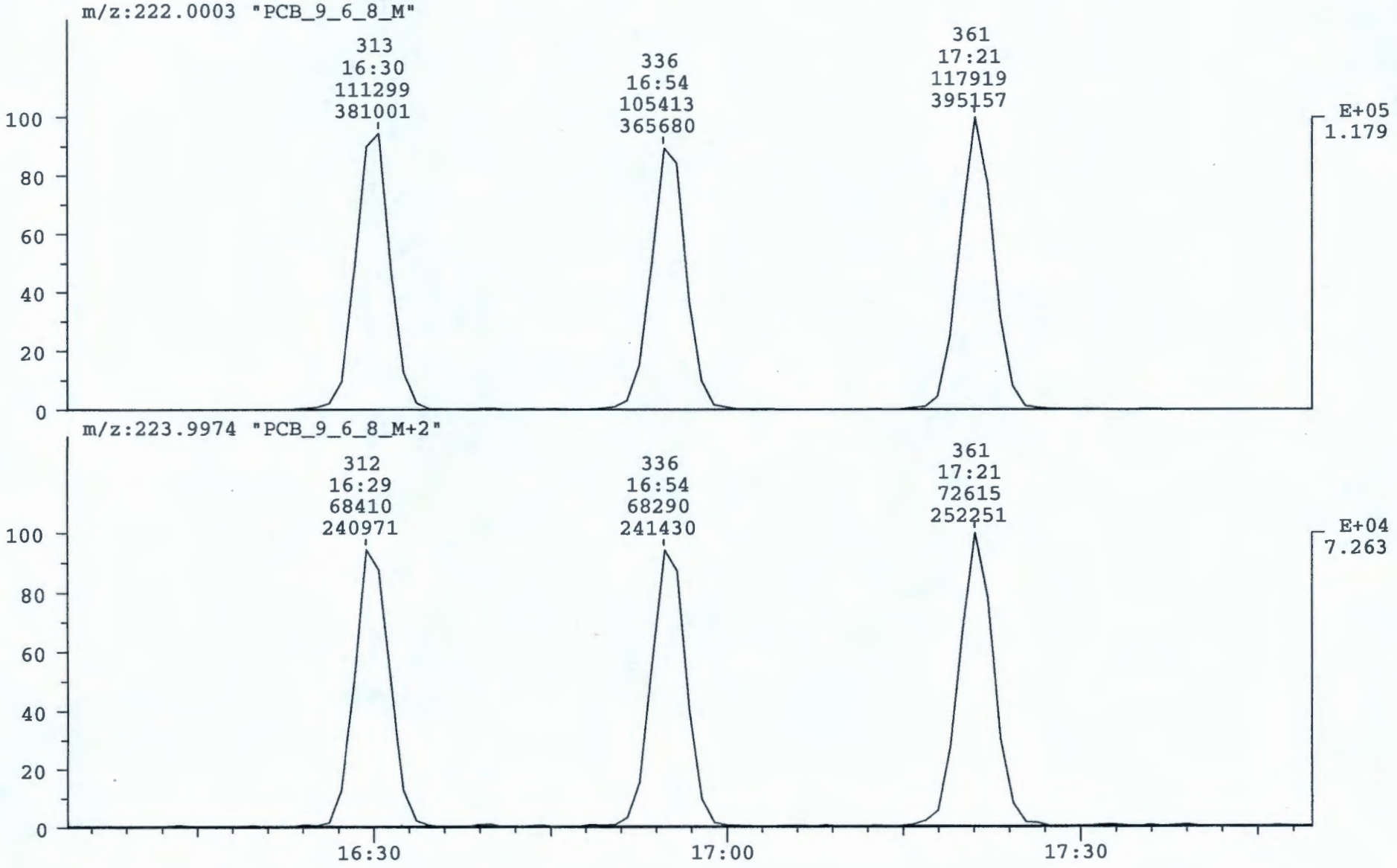
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  17:27.4      367
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   157 > 587            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



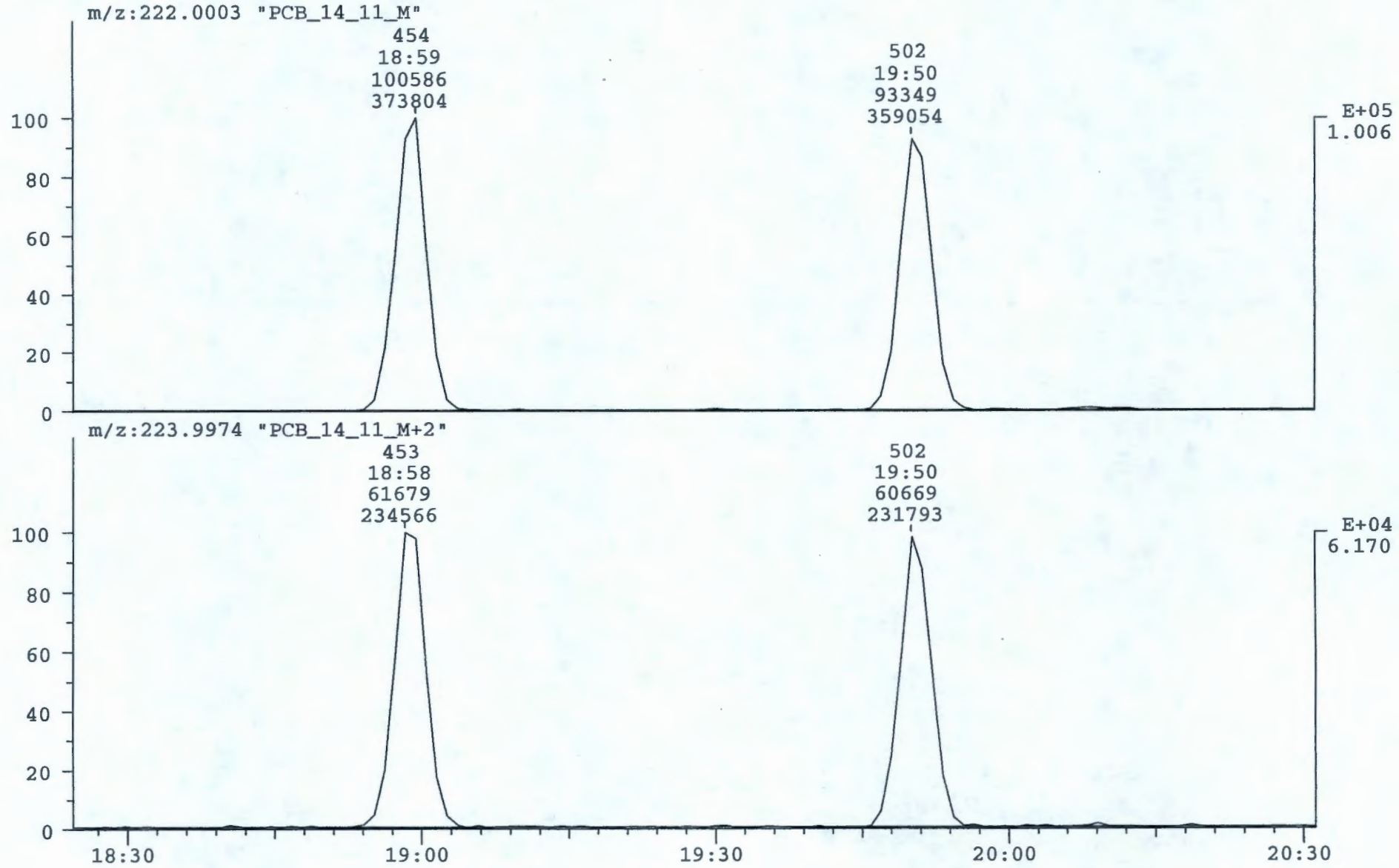
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  14:40.5      209
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   189 > 229            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



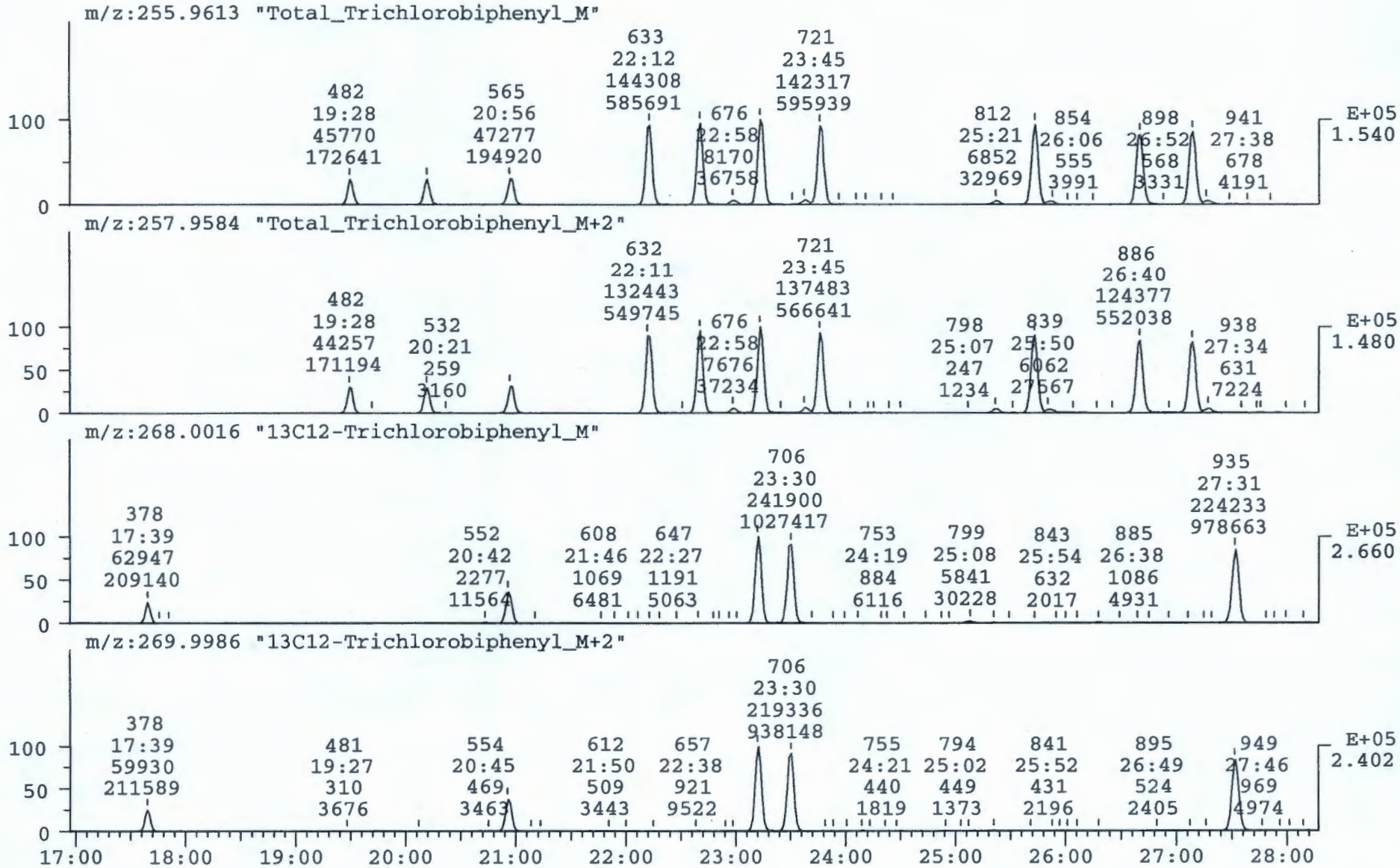
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  16:56.8      338
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   288 > 388            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



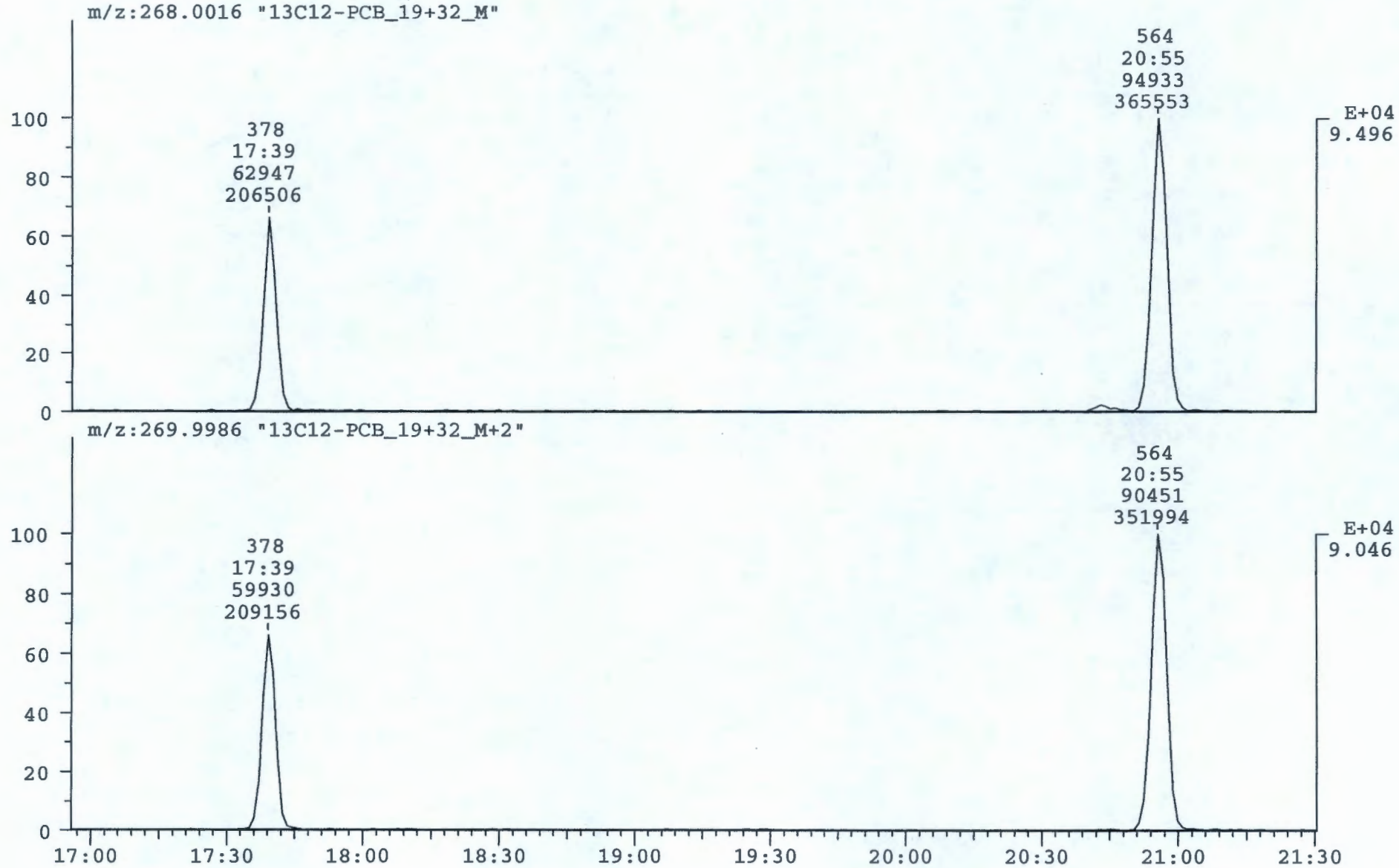
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  19:27.9      481
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   421 > 541            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



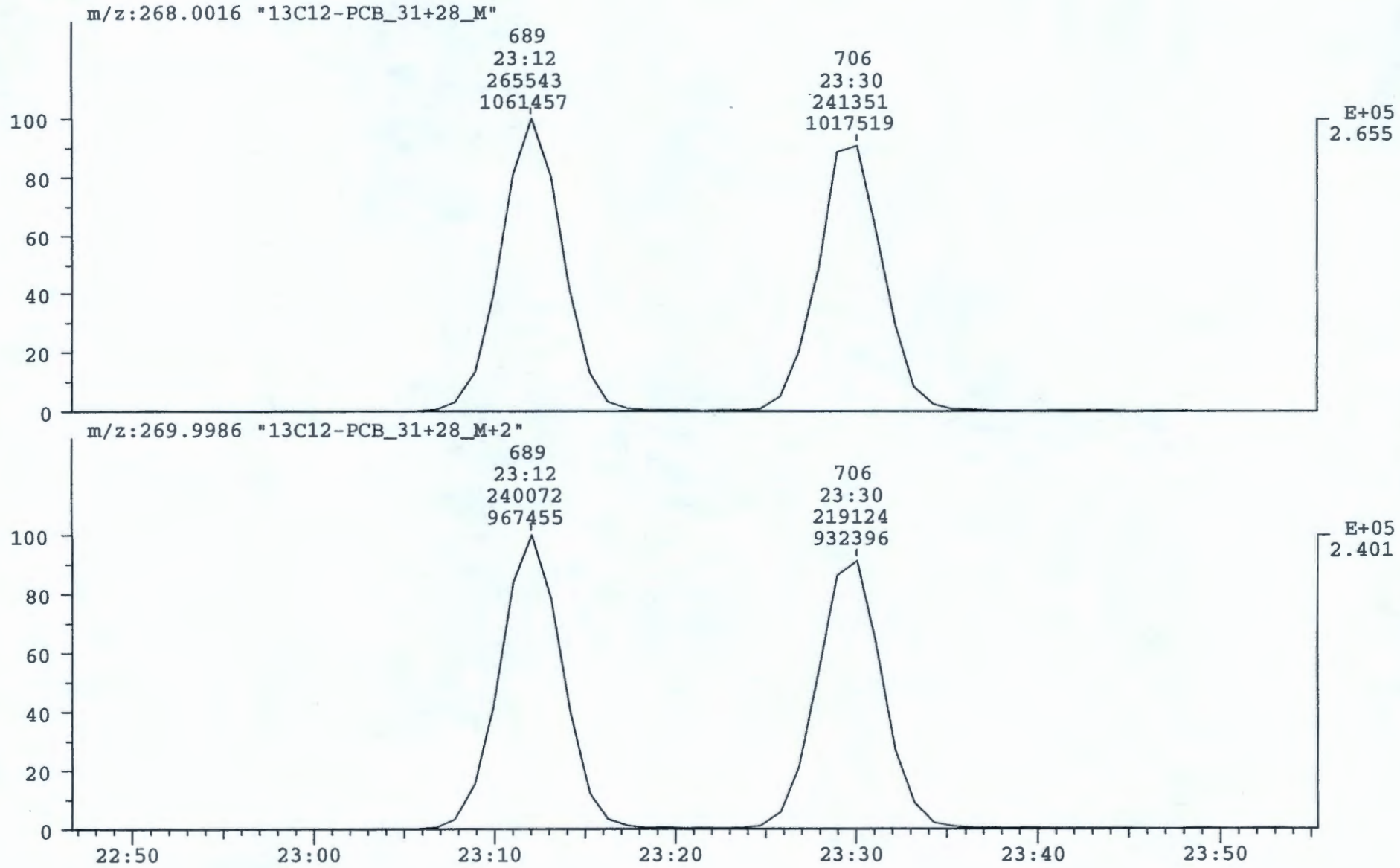
CHRO: a0806m1r2 10-Jun-08 Elapse: 22:39.3 658
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 19:43:17 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 338 > 978 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



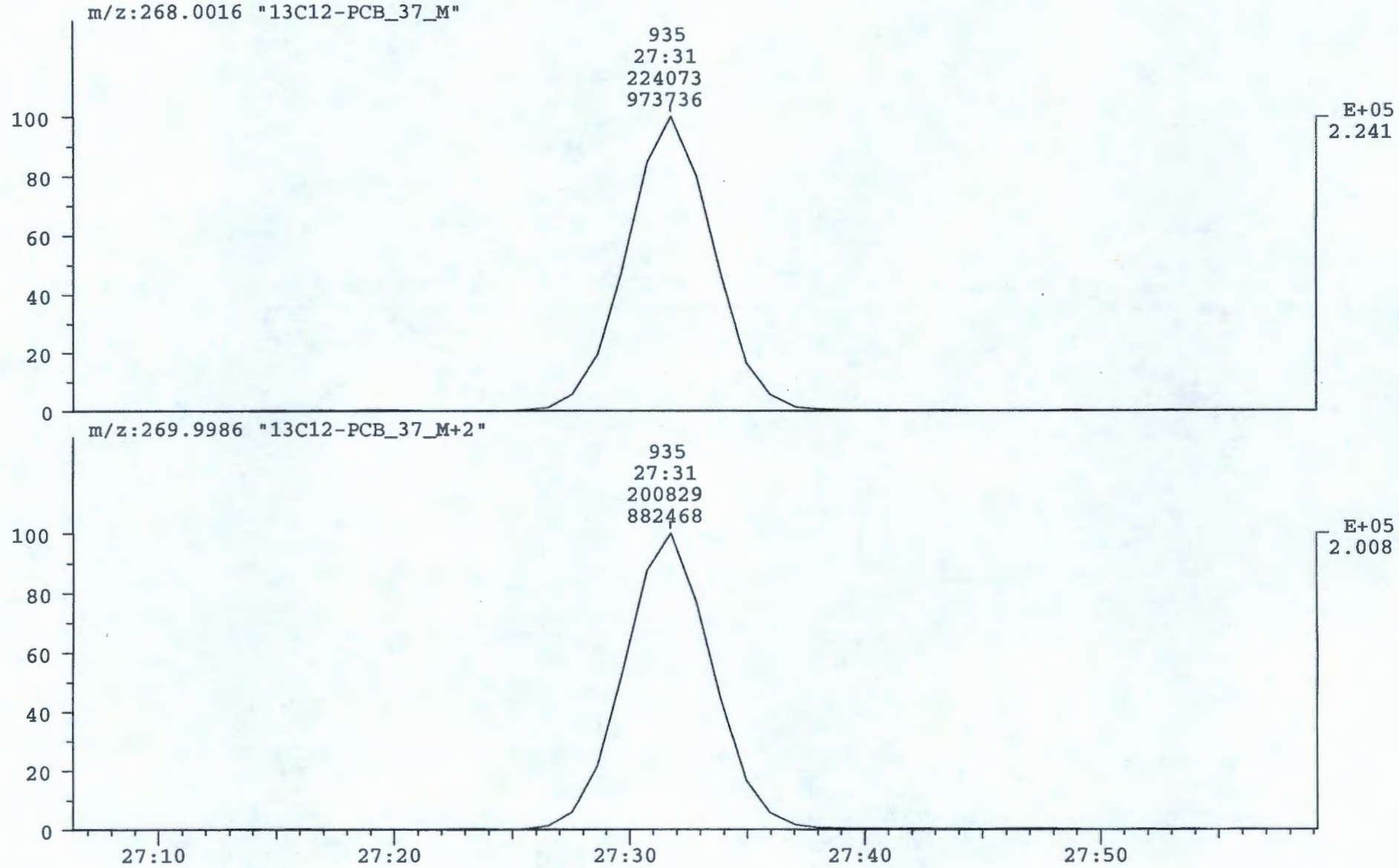
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  19:02.5      457
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   337 > 597            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1               Label :  -3, 3.0
Disp:  Height  Area
```



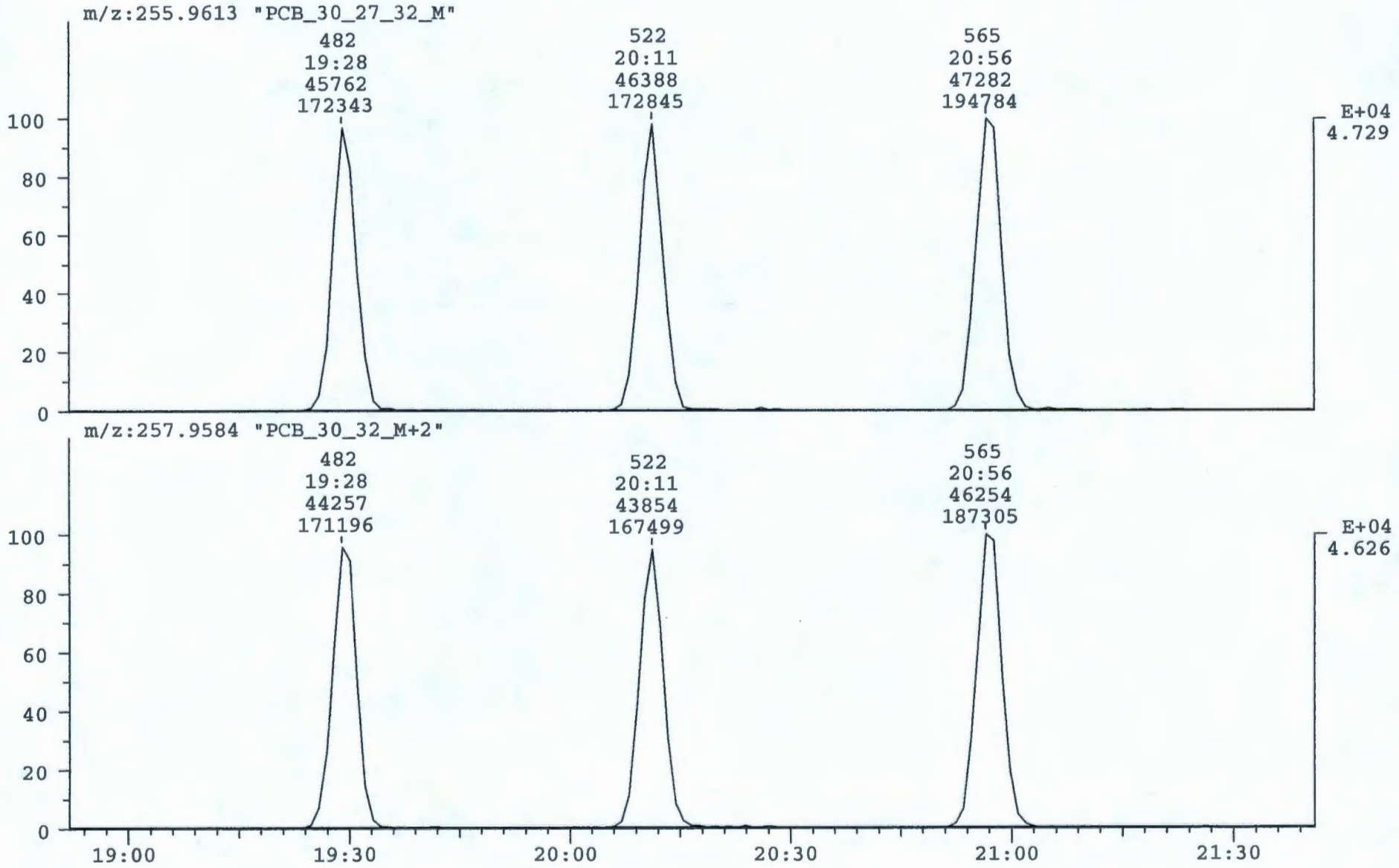
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  23:13.1      690
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   665 > 730             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



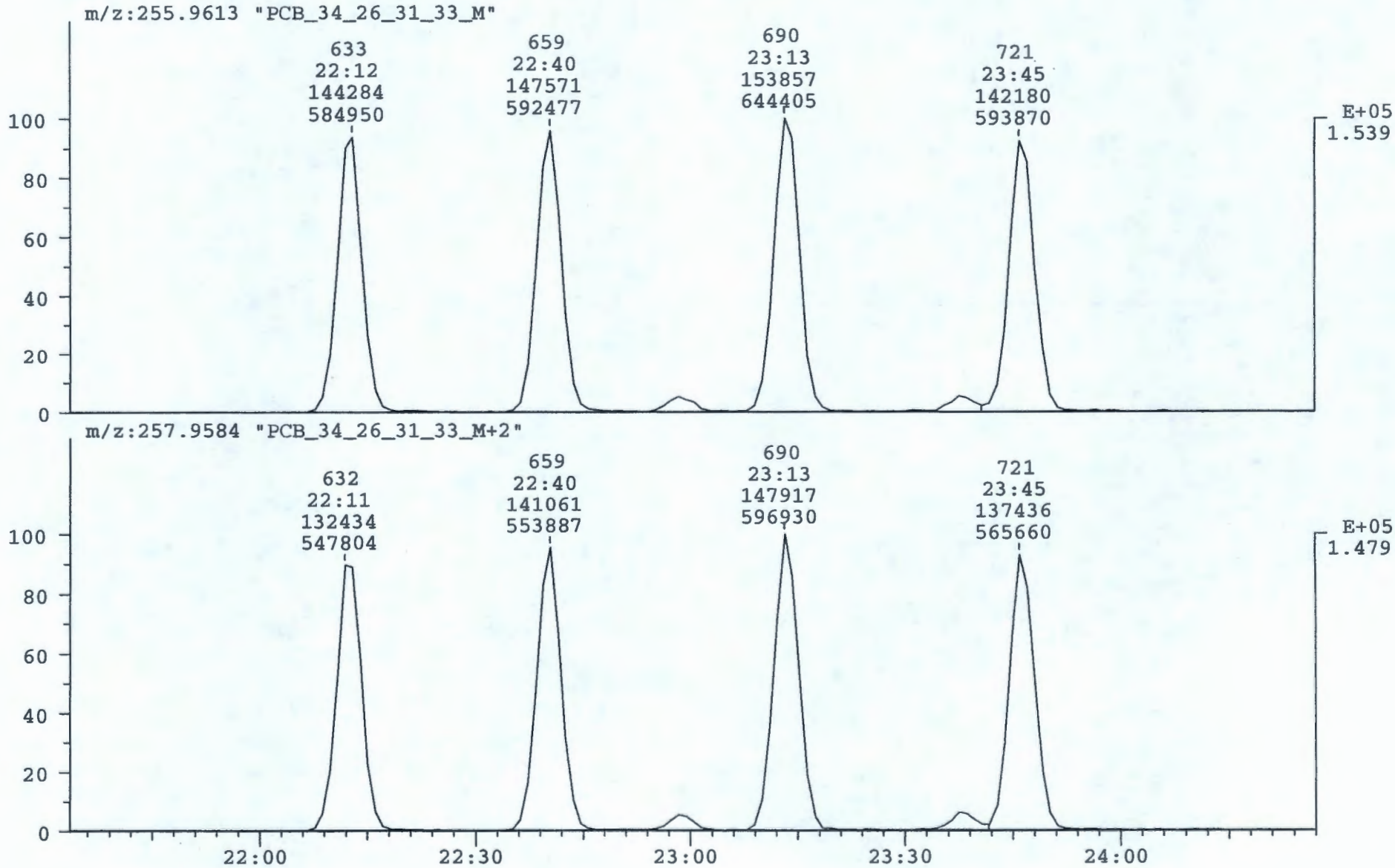
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  27:32.8      936
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   911 > 961             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



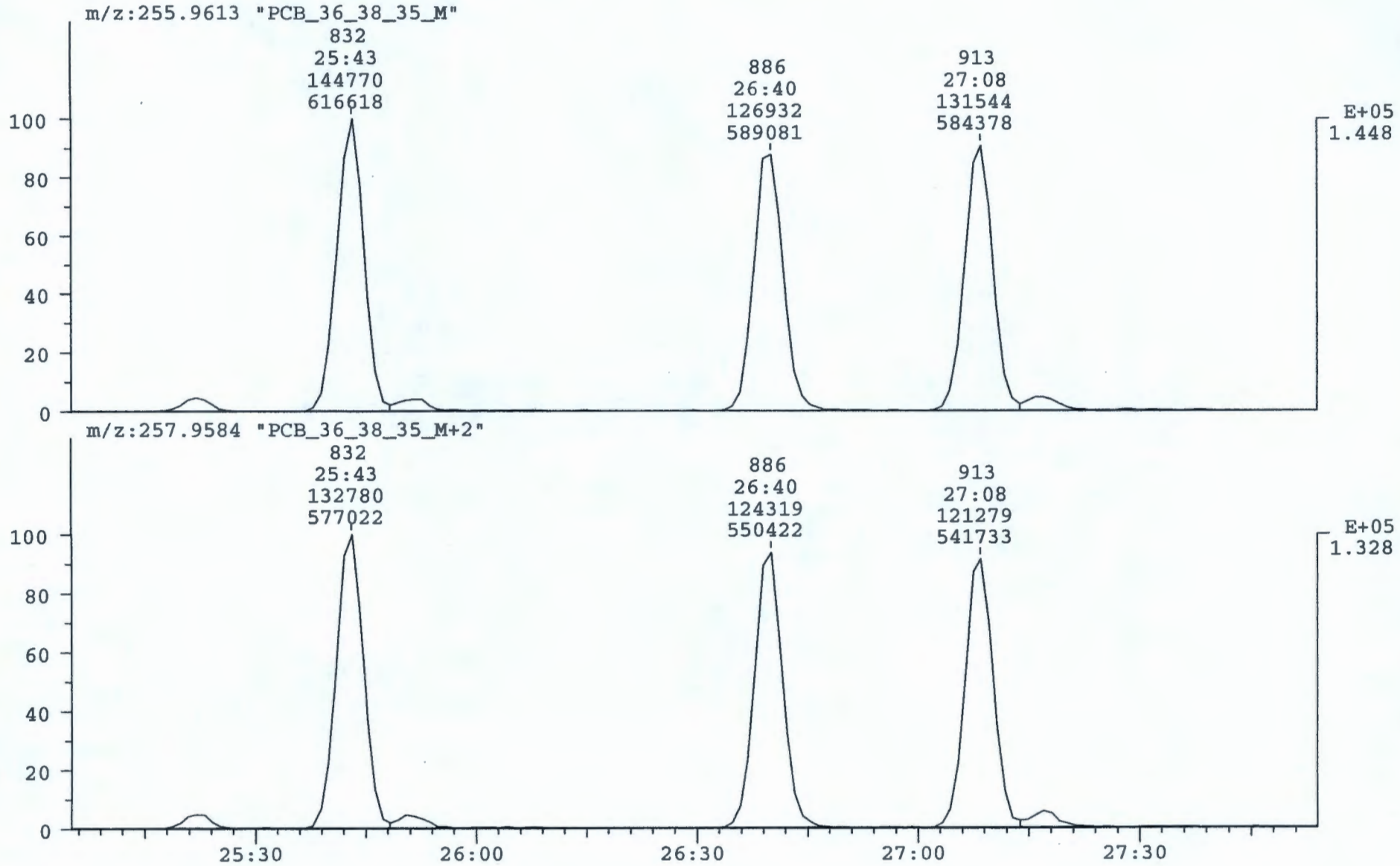
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  20:16.4      527
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   447 > 607            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



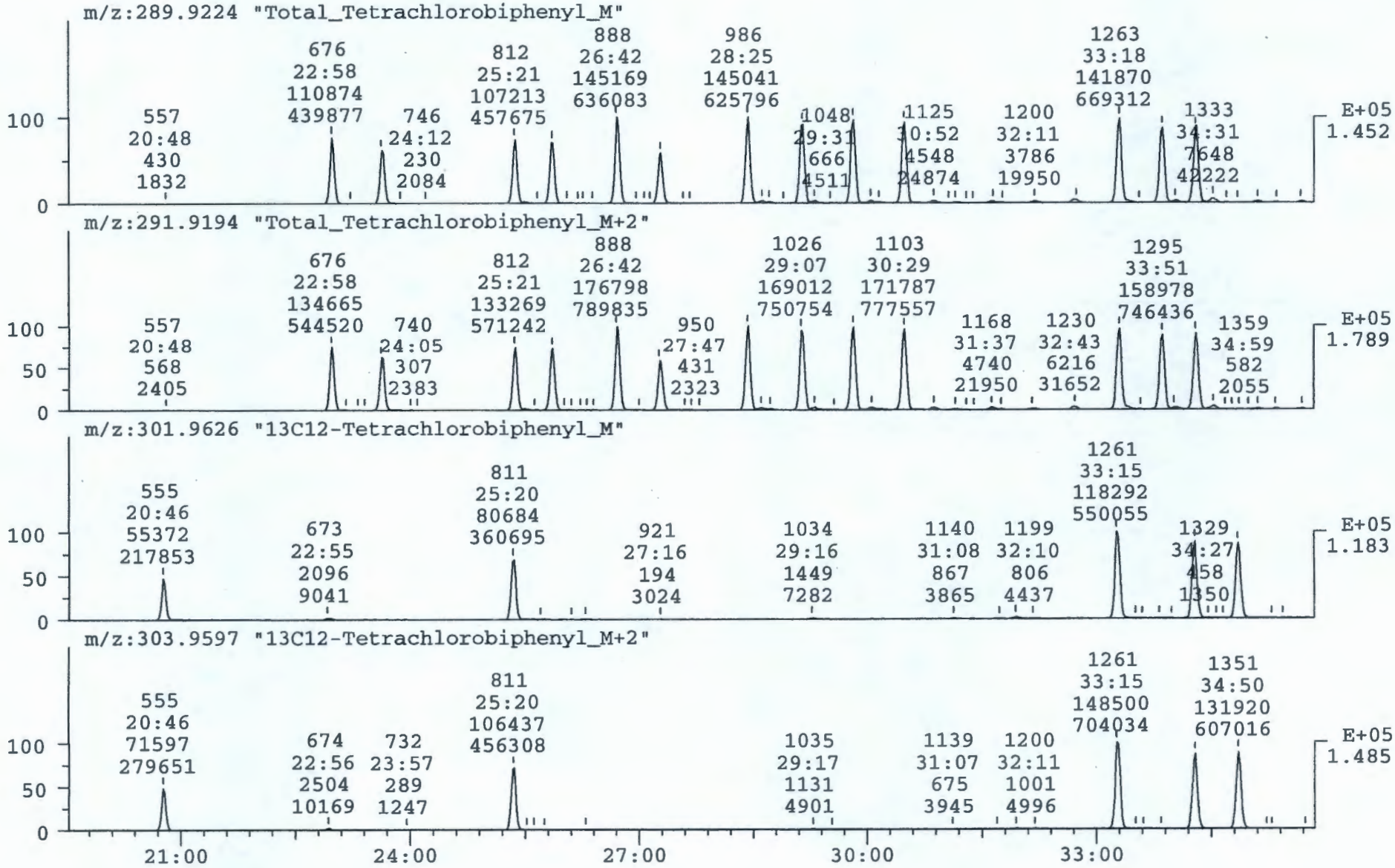
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  23:02.5      680
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC      Vial  11
Peak:  100.00  ppm      Label wndw:   600 > 760            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



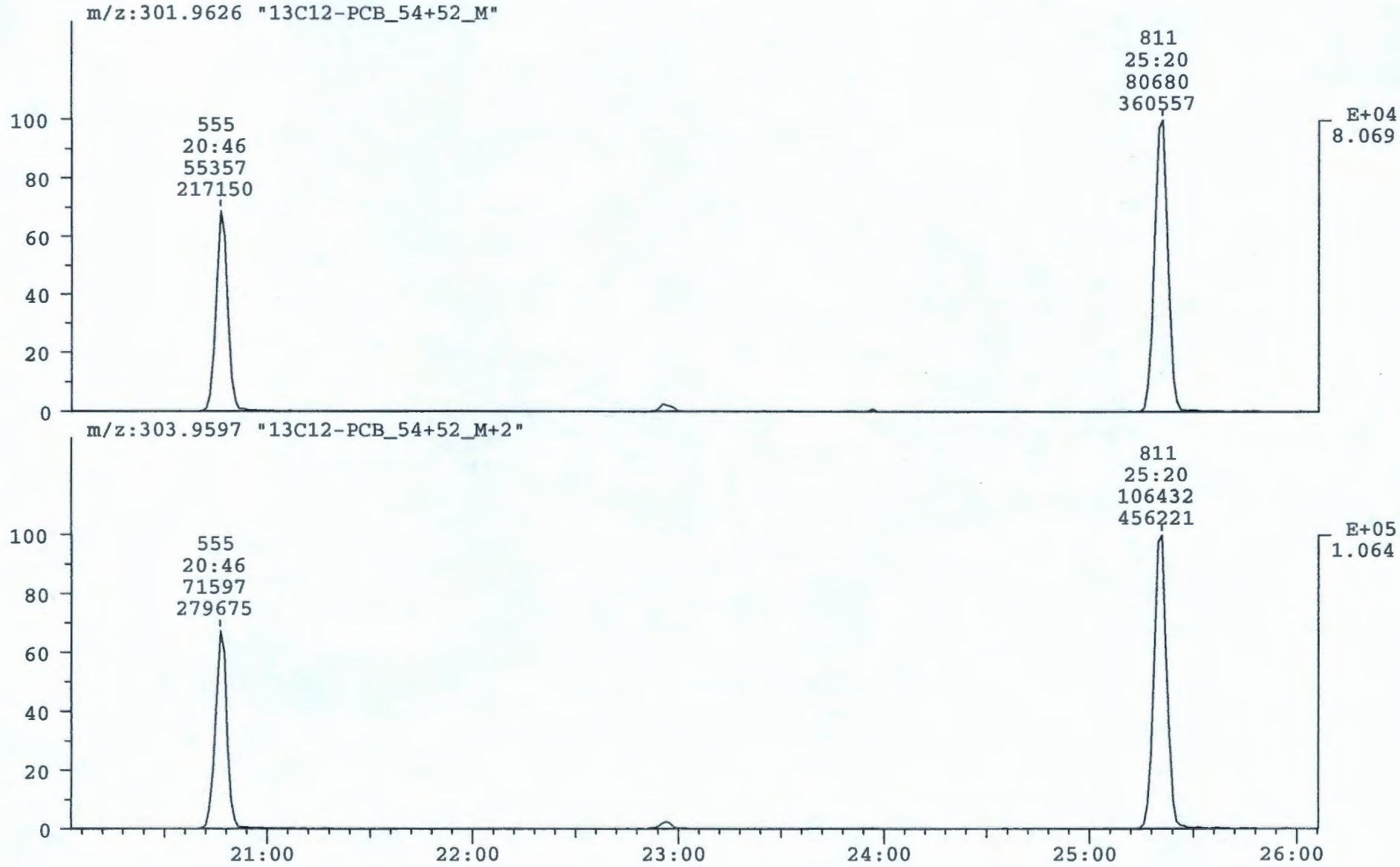
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  26:29.4      876
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   796 > 956            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



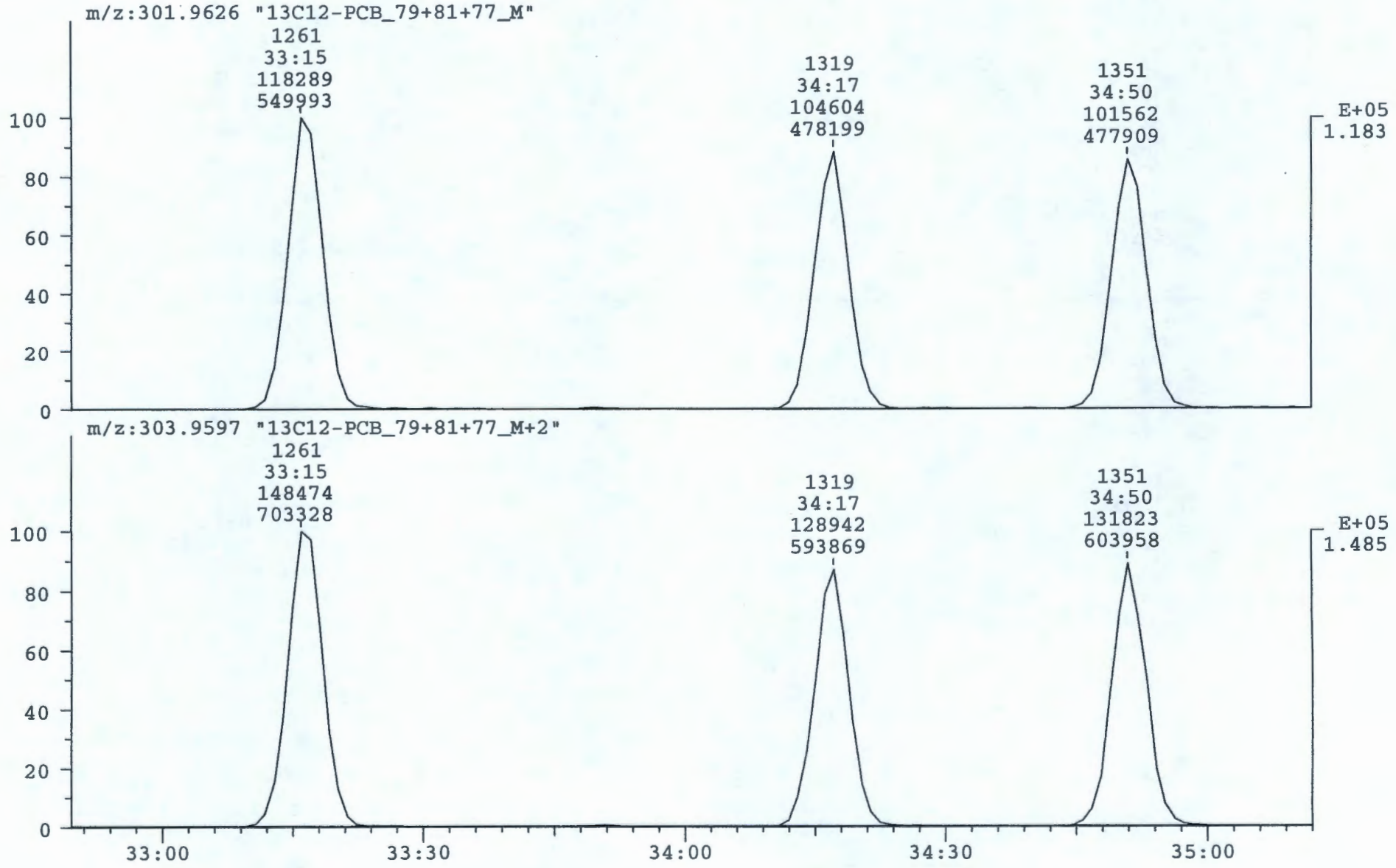
CHRO: a0806m1r2 10-Jun-08 Elapse: 27:41.3 944
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 19:43:17 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 485 > 1408 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



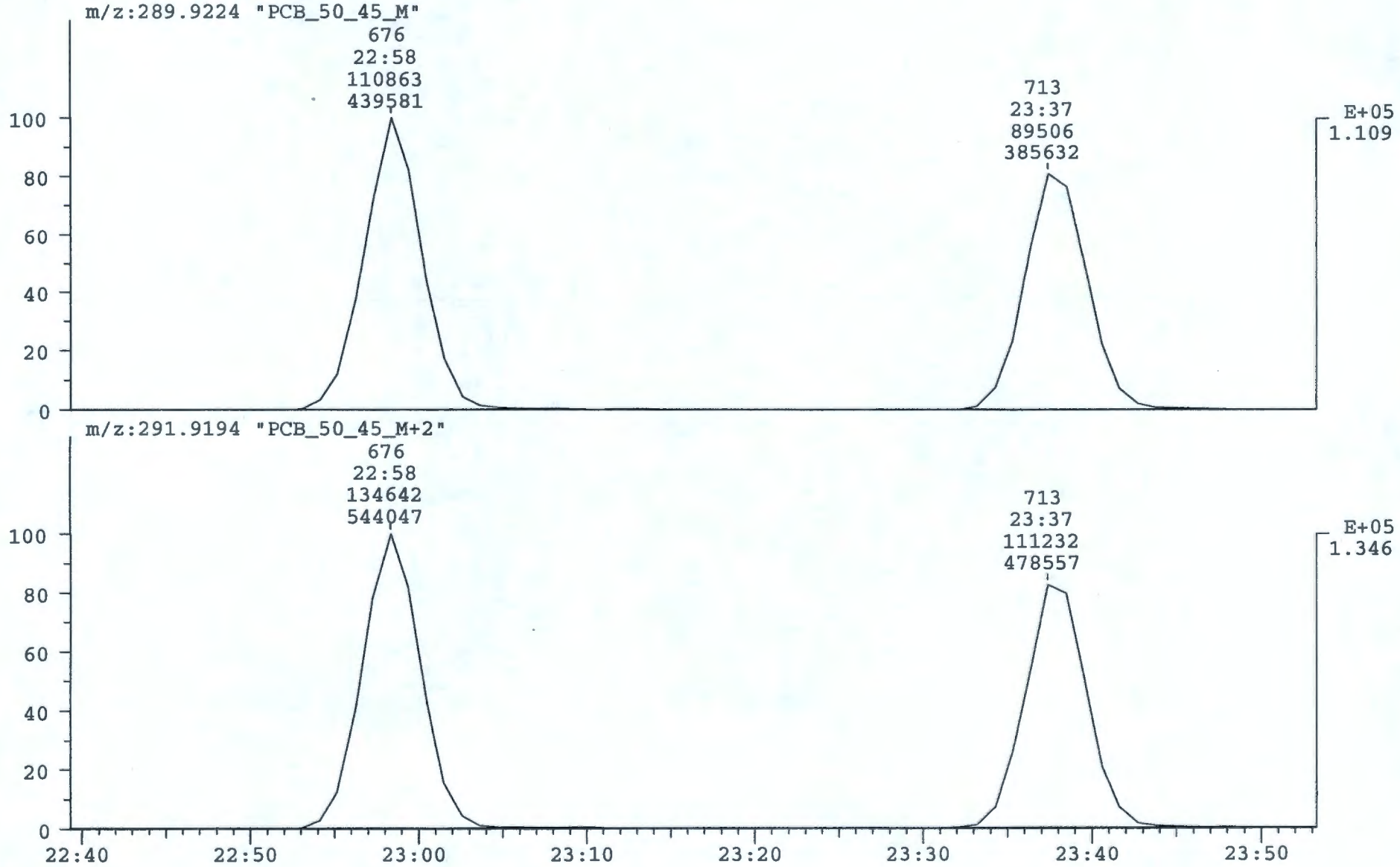
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  23:06.8      684
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   514 > 854            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



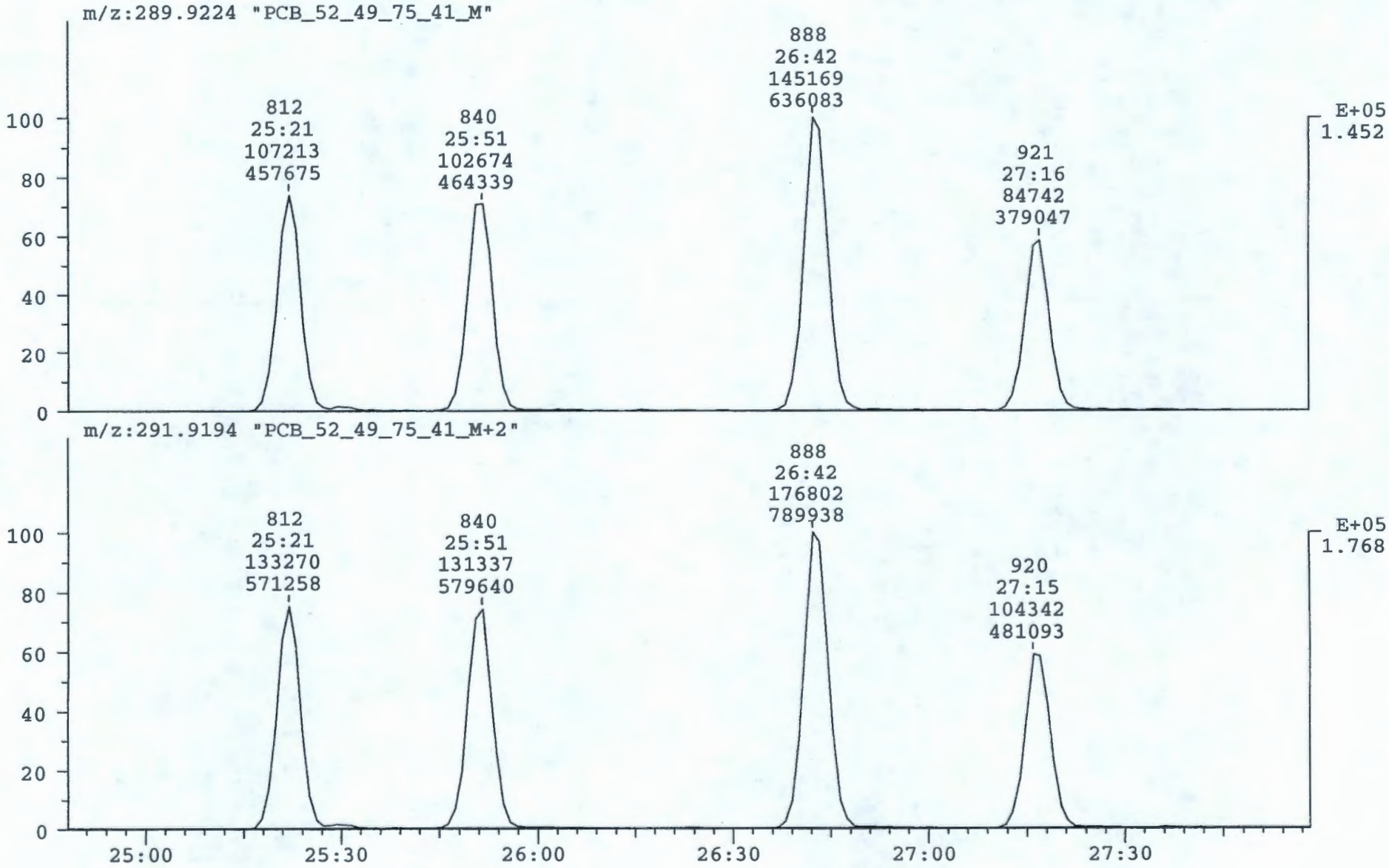
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  34:03      1306
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1236 > 1371           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



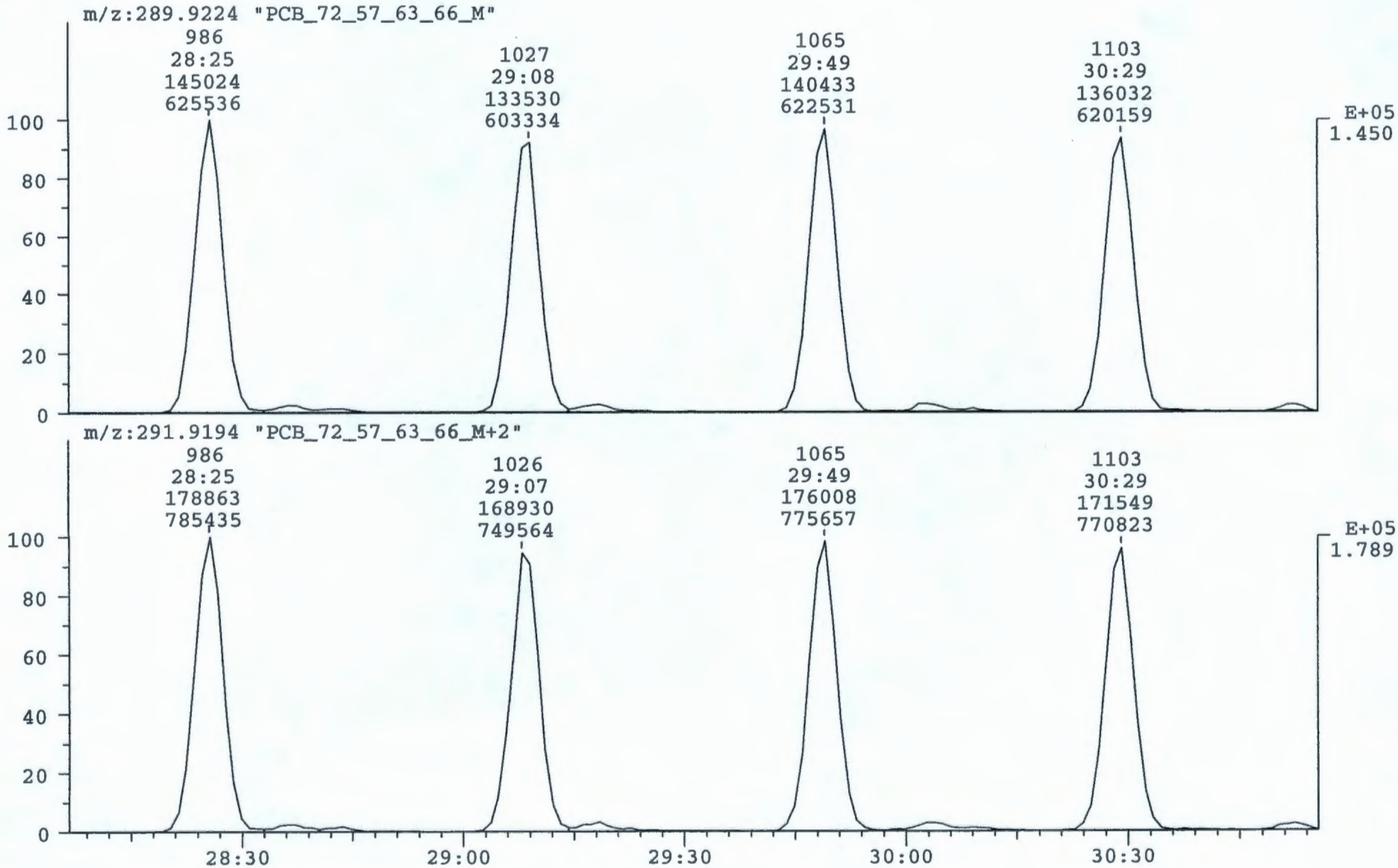
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  23:21.6      698
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   658 > 728            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



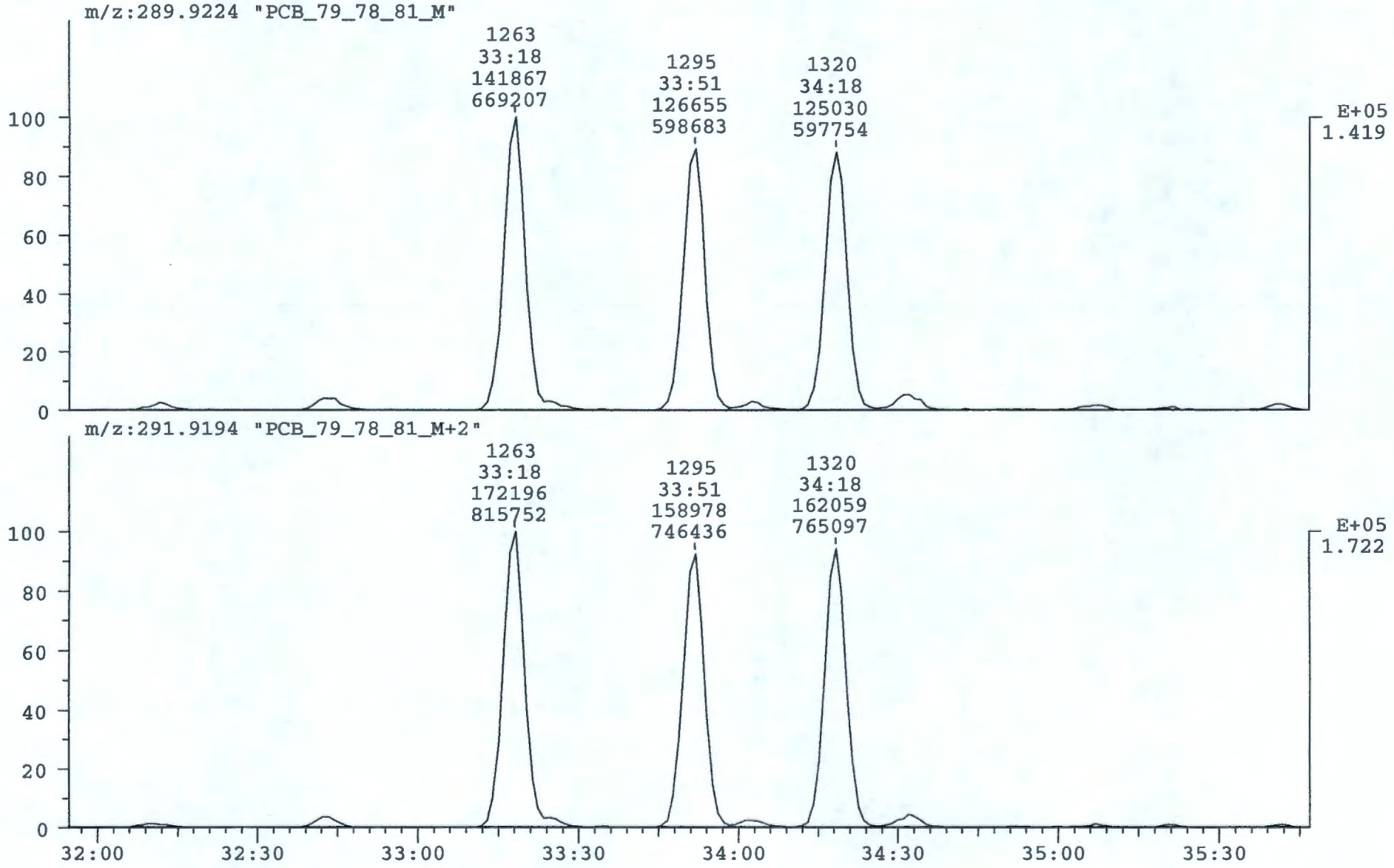
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  26:23.1      870
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC      Vial  11
Peak:  100.00  ppm      Label wndw:   780 > 960             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



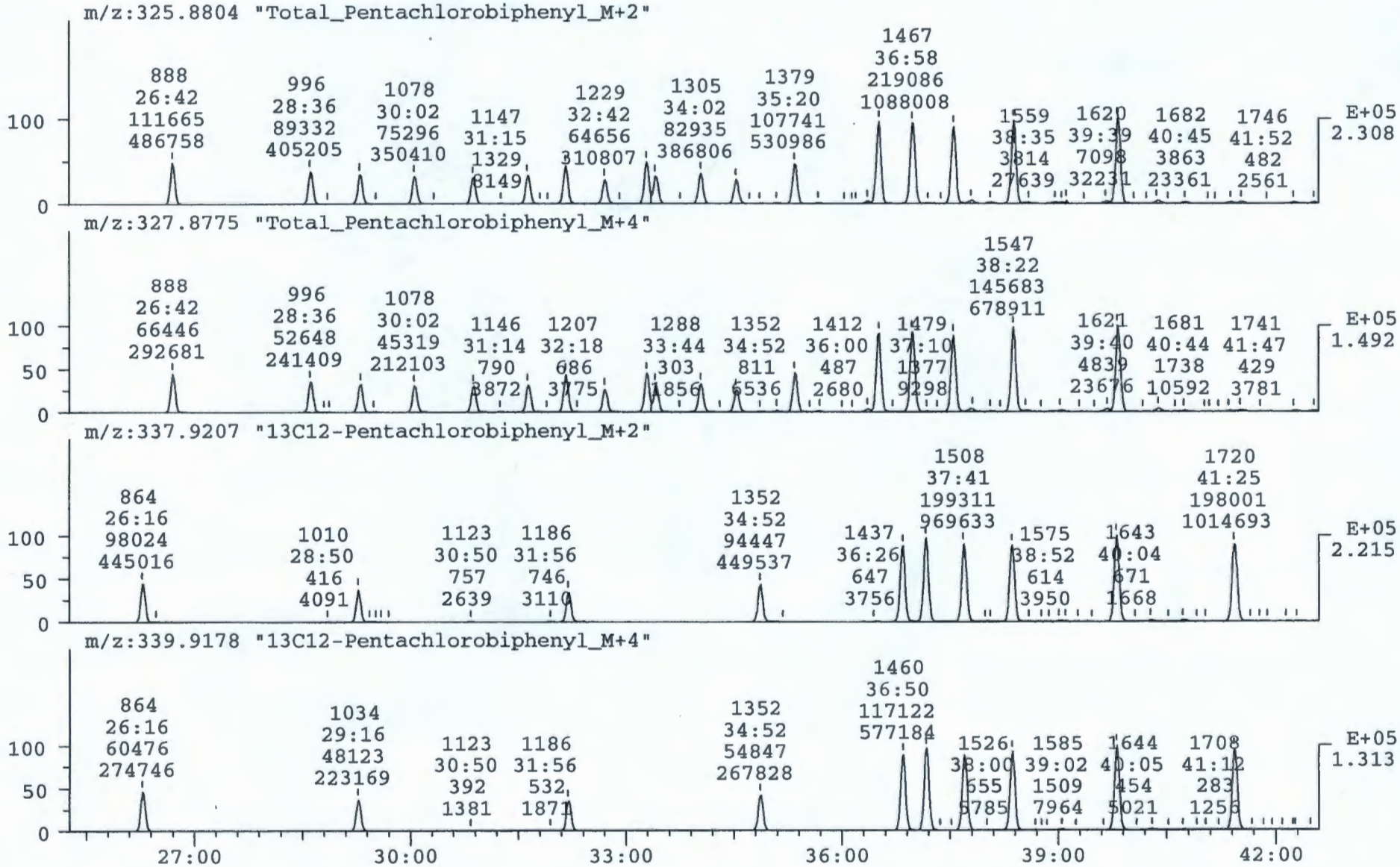
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  29:31      1048
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   968 > 1128            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



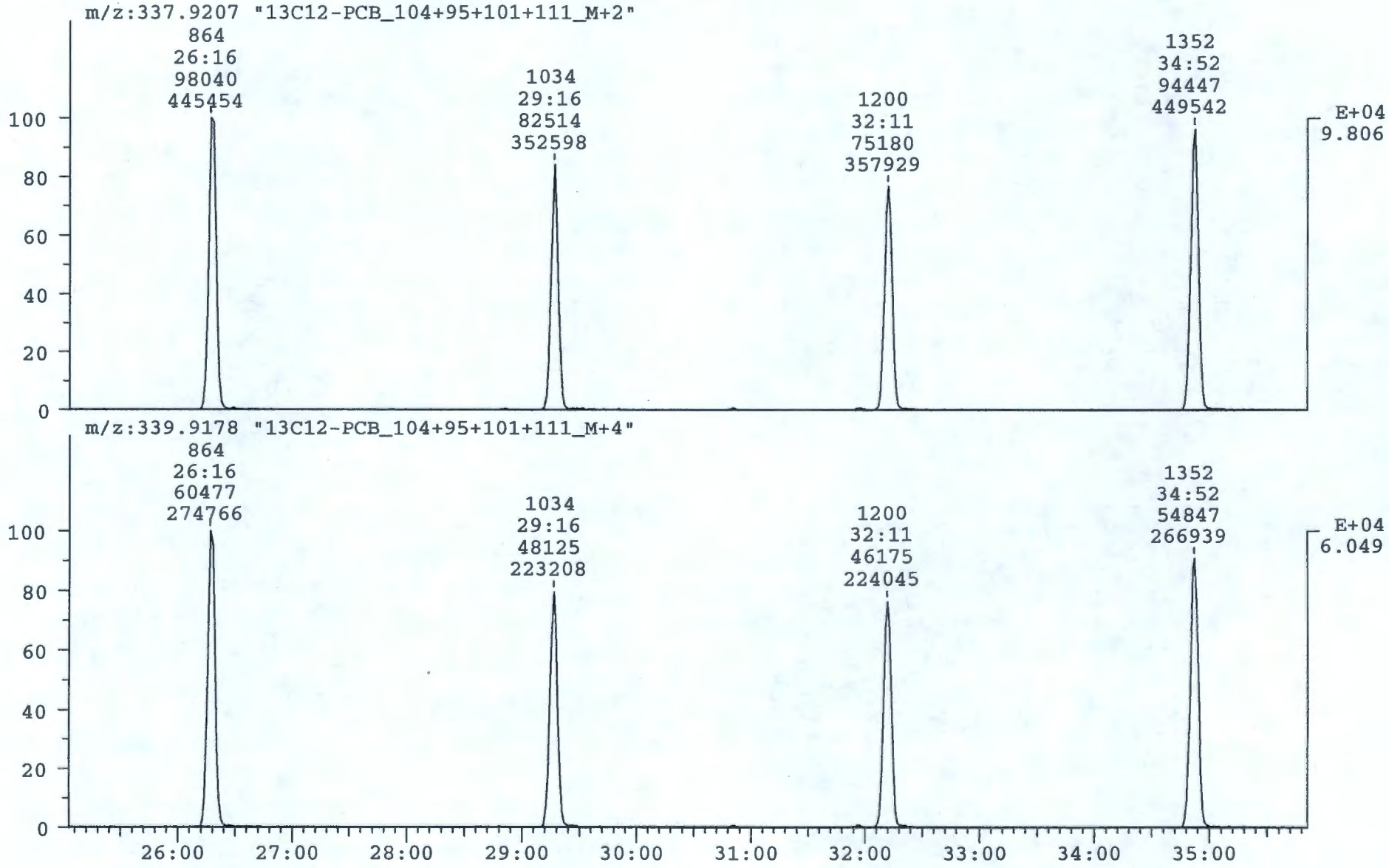
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  33:50      1294
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  11
Peak:  100.00  ppm     Label wndw:   1184 > 1404           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



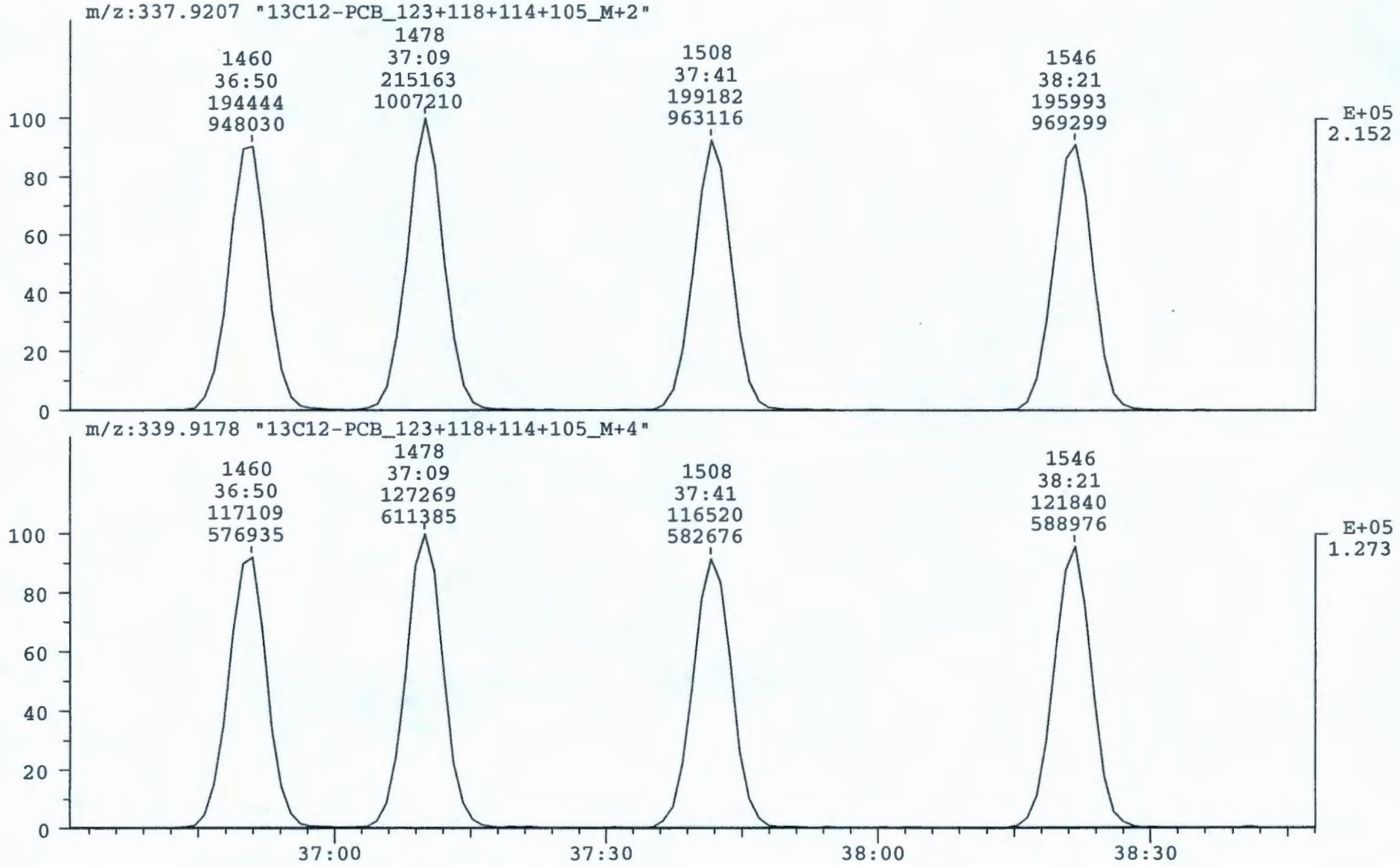
CHRO: a0806m1r2 10-Jun-08 Elapse: 33:56 1299
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 19:43:17 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 806 > 1787 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



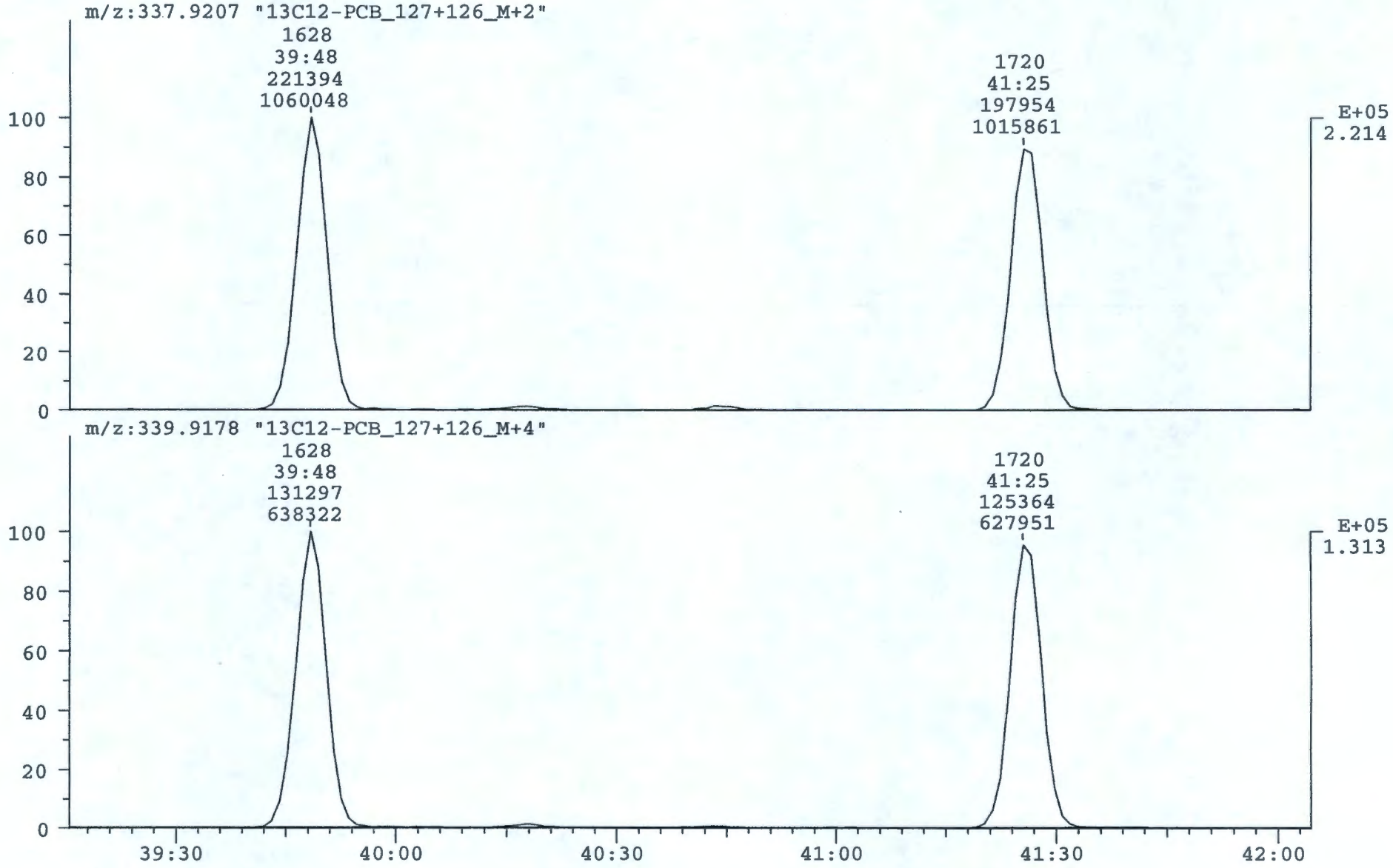
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  30:27      1101
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   794 > 1408            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



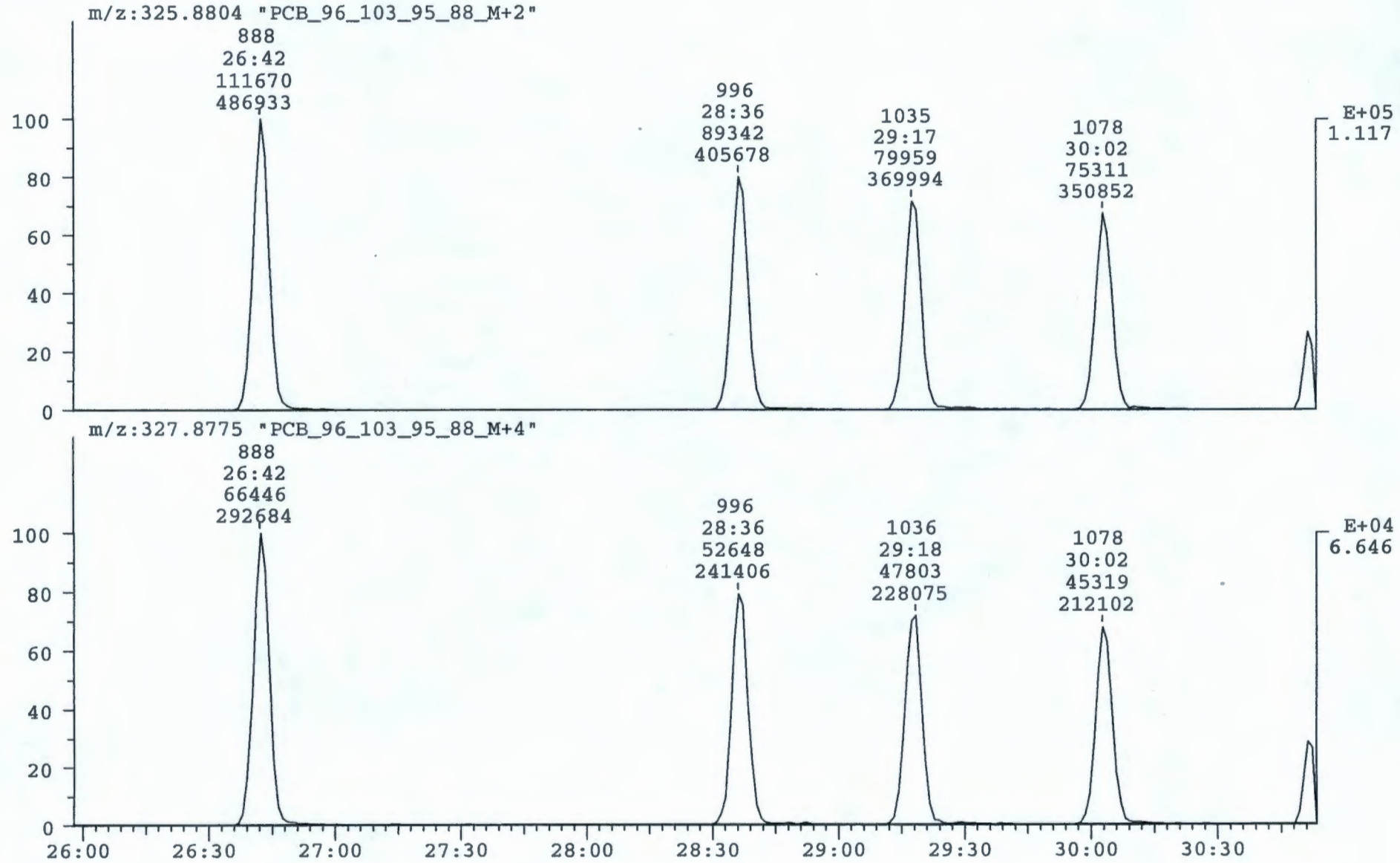
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  37:39      1506
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1441 > 1571           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



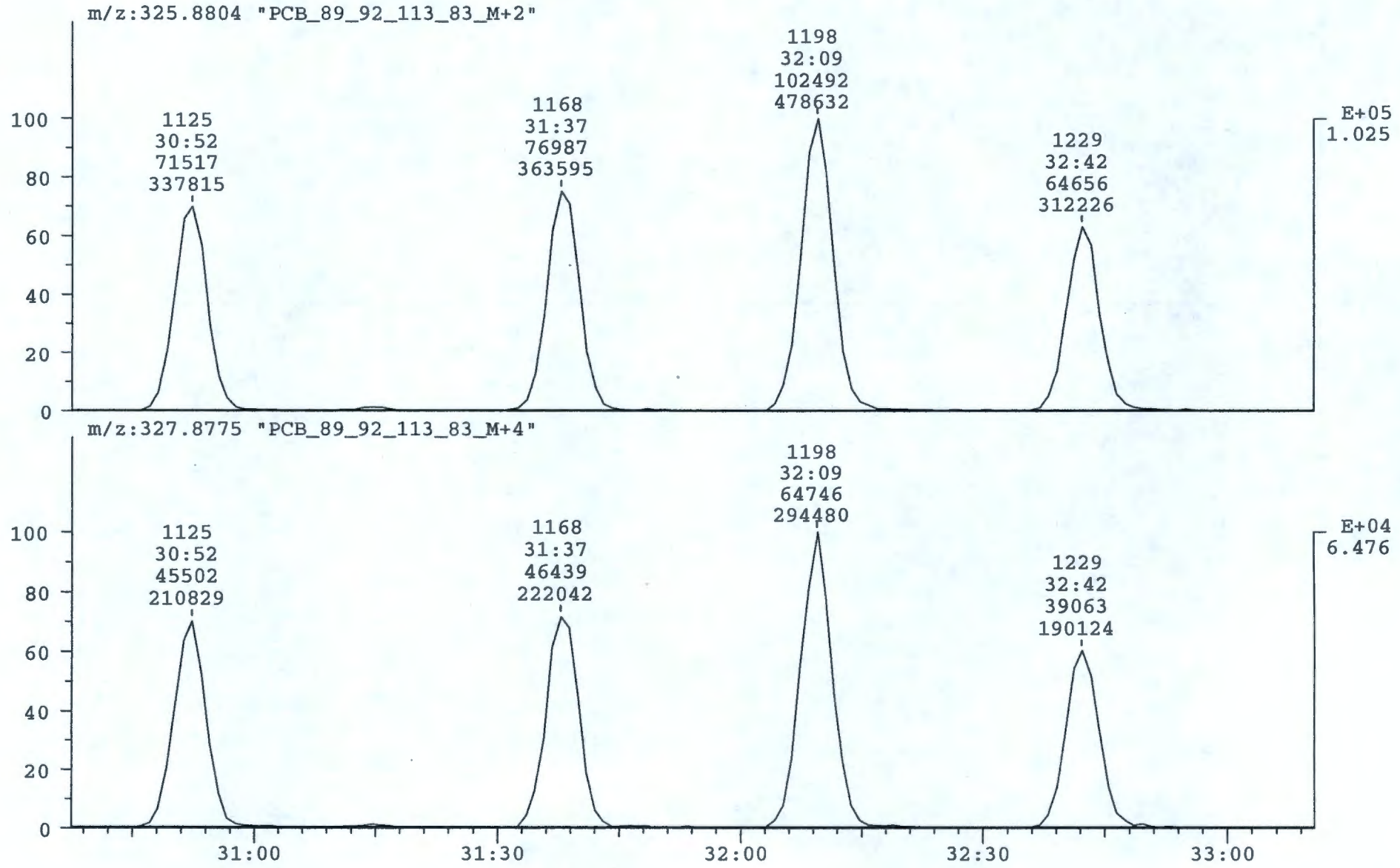
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  40:40      1677
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1597 > 1757          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



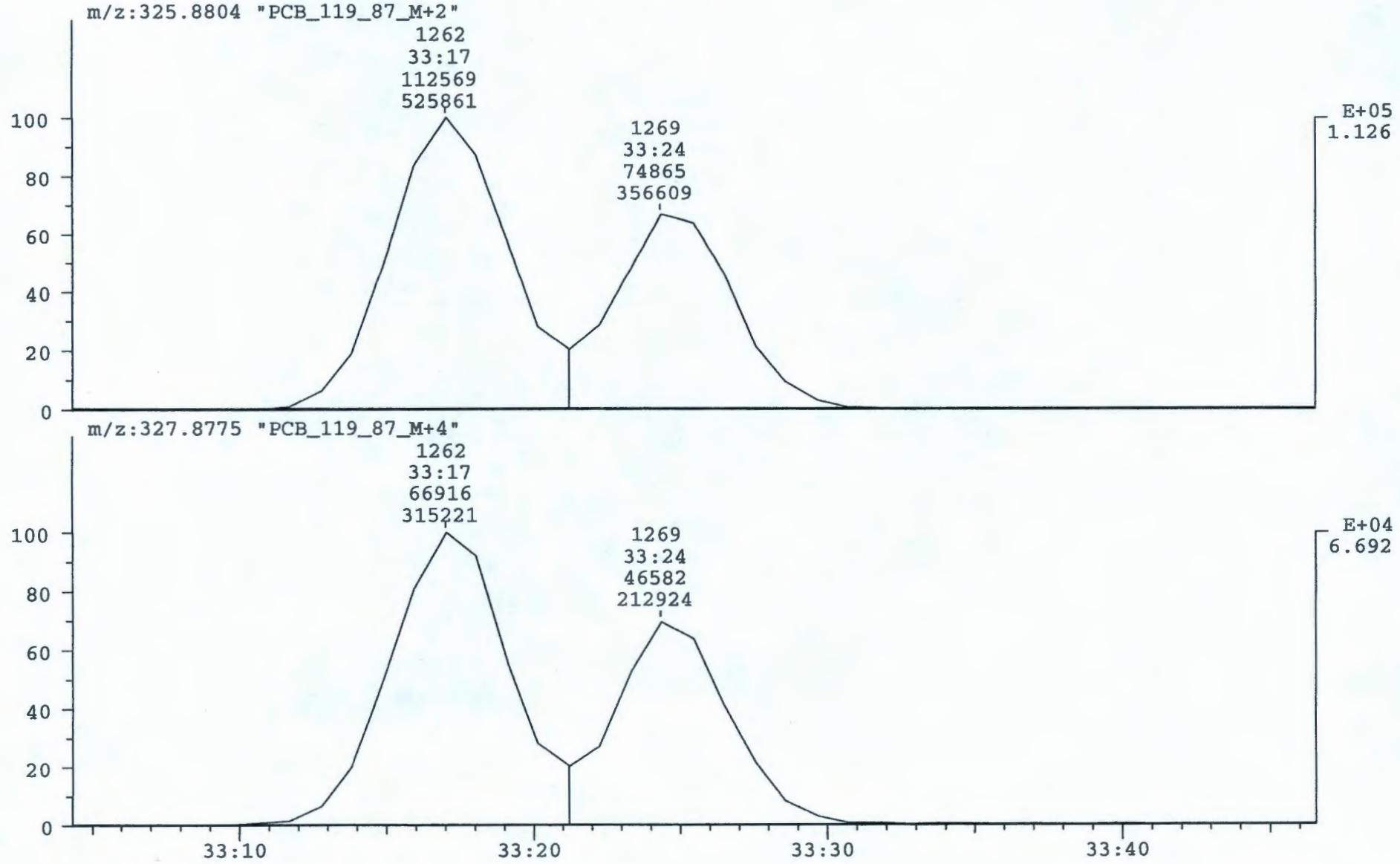
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  28:25.6      986
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   846 > 1126           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



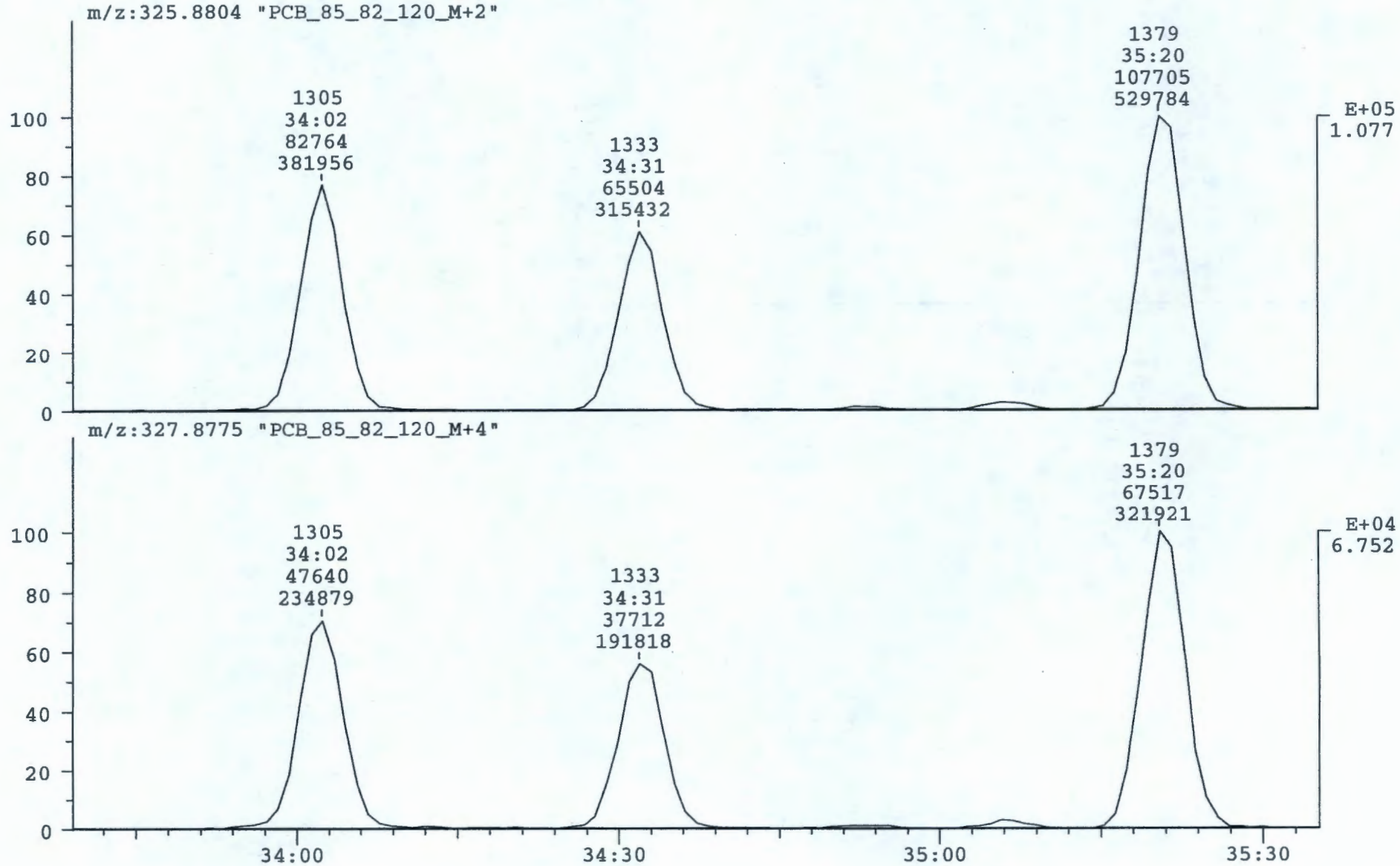
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  31:51      1181
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  11
Peak:  100.00  ppm     Label wndw:   1111 > 1256           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



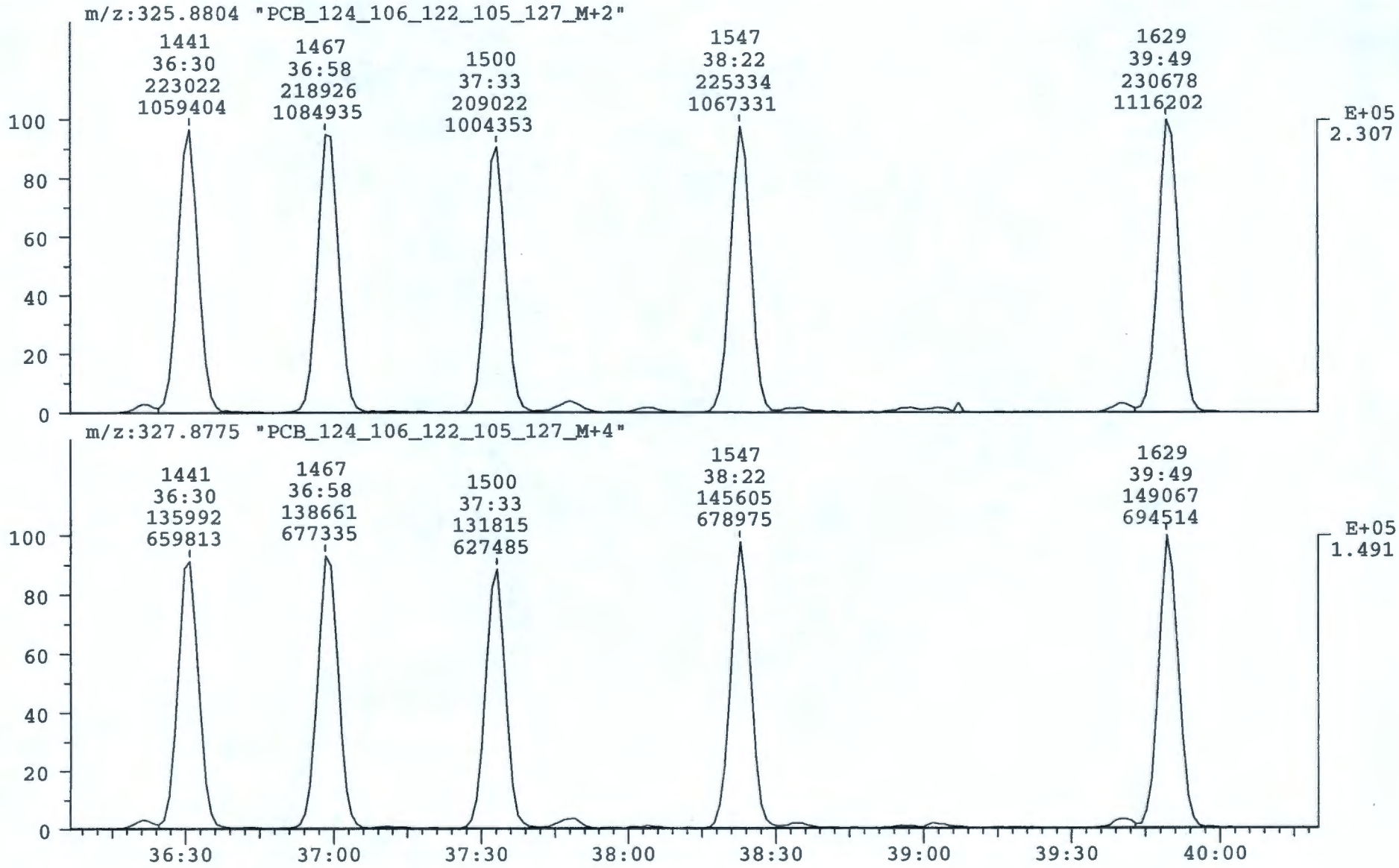
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  33:25      1270
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1250 > 1290          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



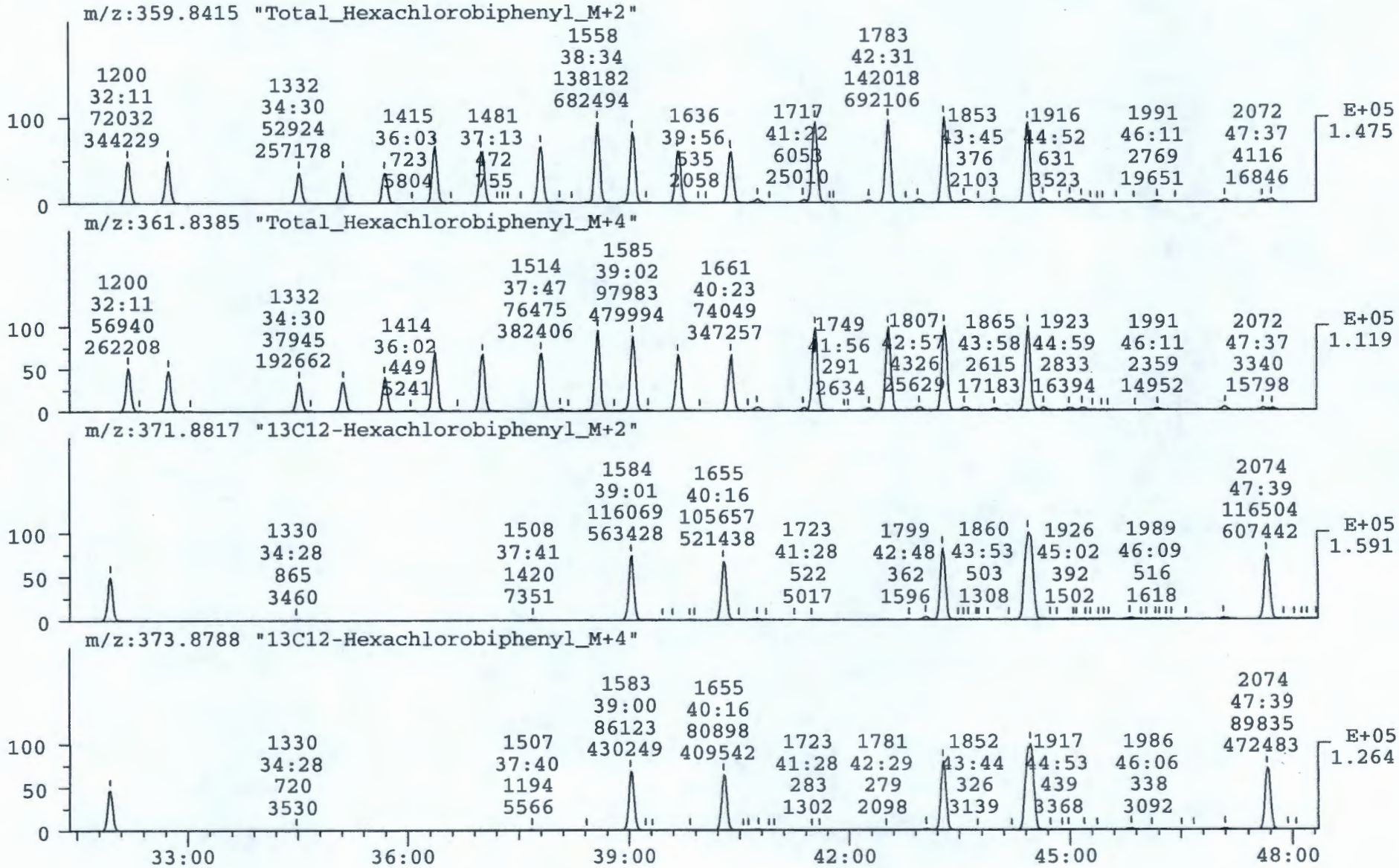
CHRO: a0806m1r2 10-Jun-08 Elapse: 34:26 1328
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 19:43:17 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1283 > 1393 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



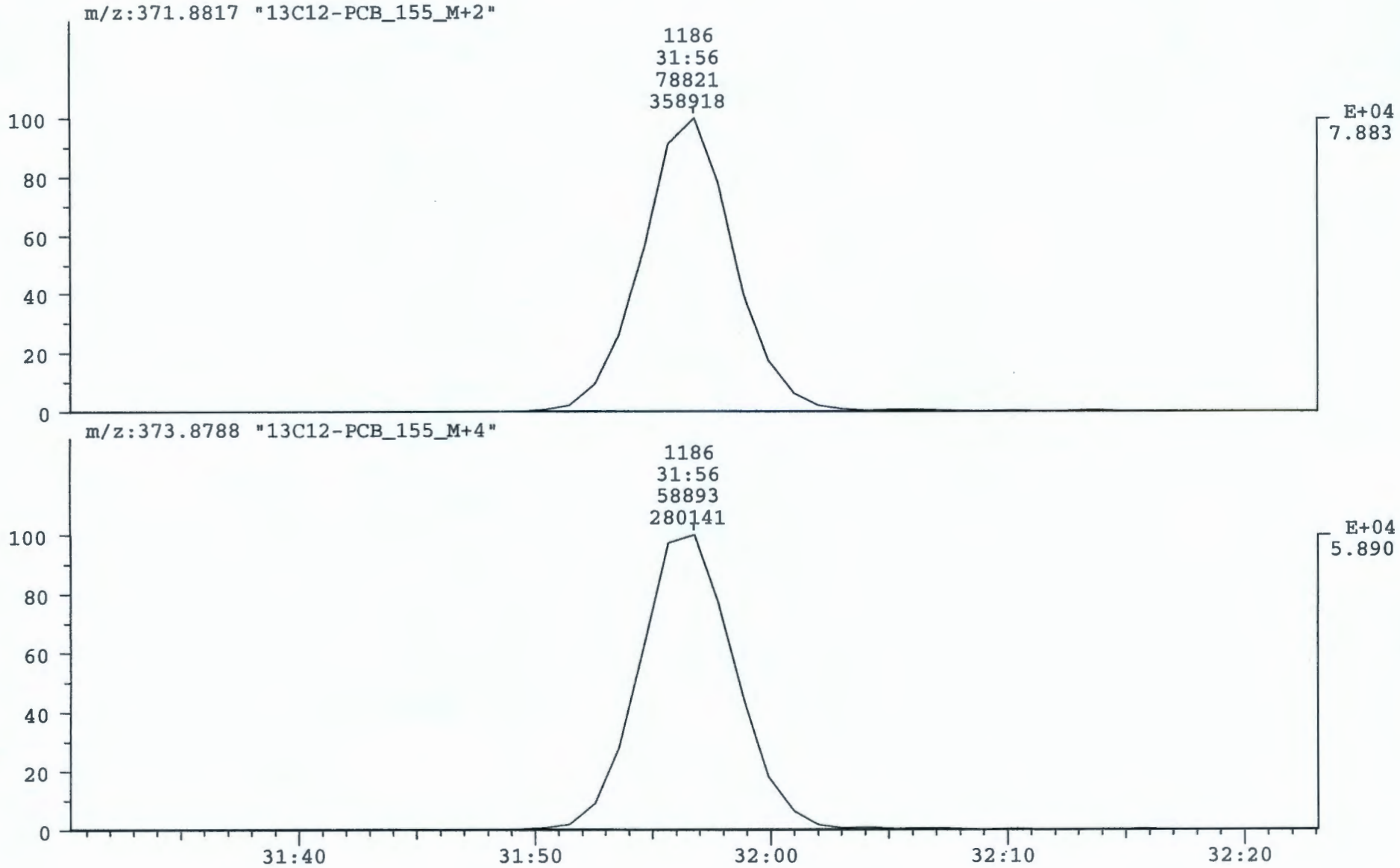
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  38:18      1543
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1418 > 1658          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



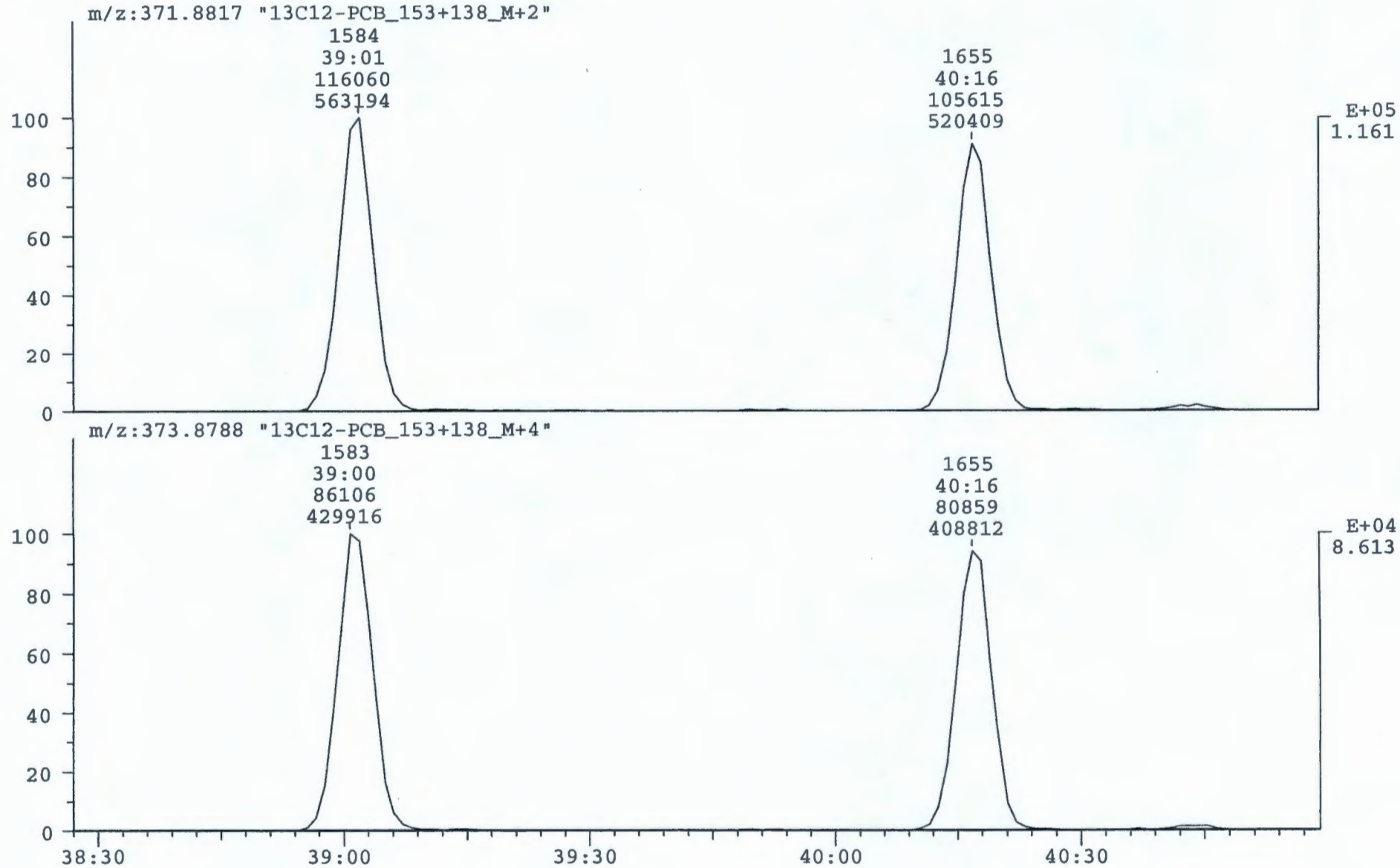
CHRO: a0806m1r2 10-Jun-08 Elapse: 39:52 1632
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 19:43:17 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1155 > 2113 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



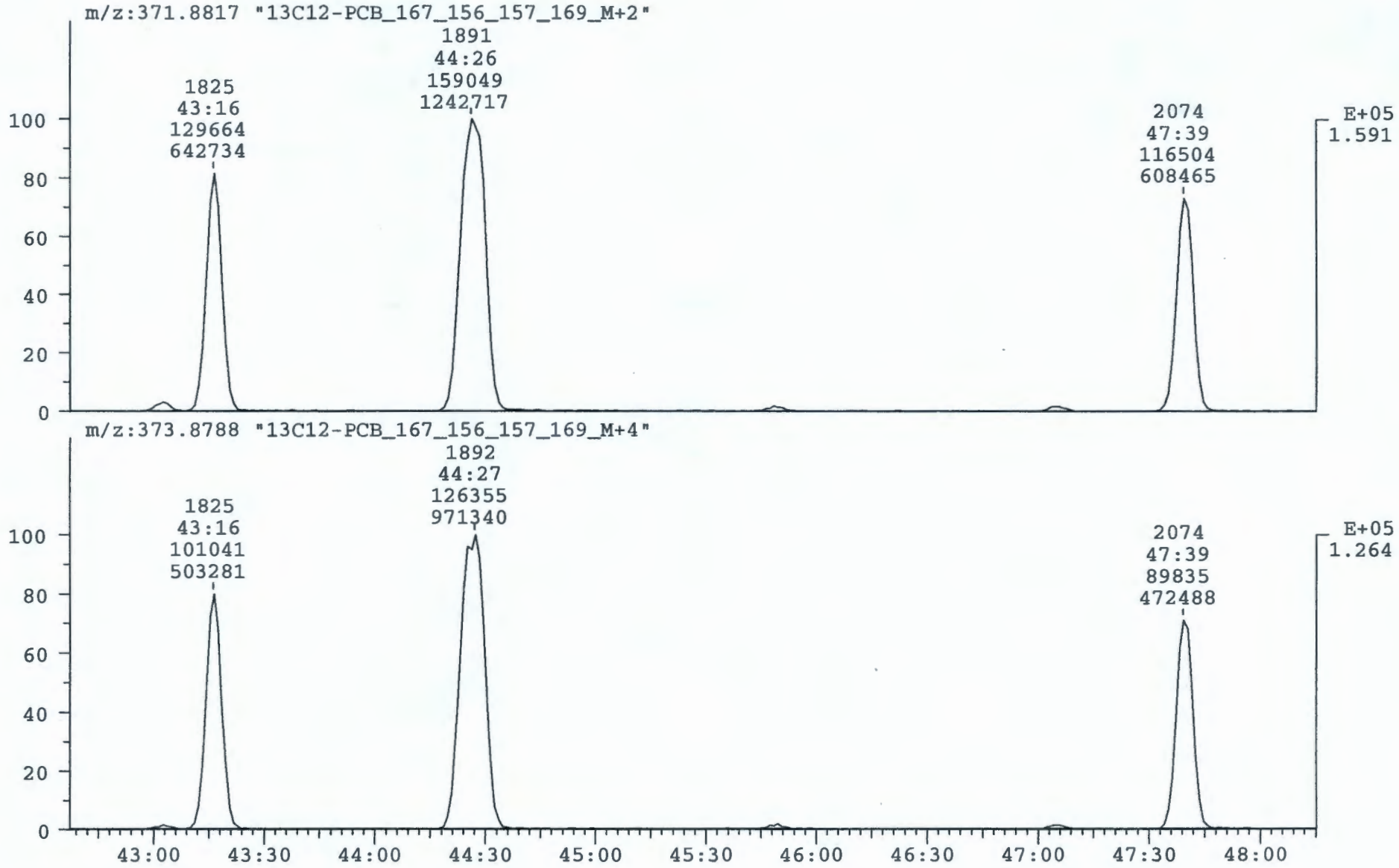
```
CHRO:  a0806m1r2                              10-Jun-08   Elapse:  31:56      1186
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1              Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1161 > 1211         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



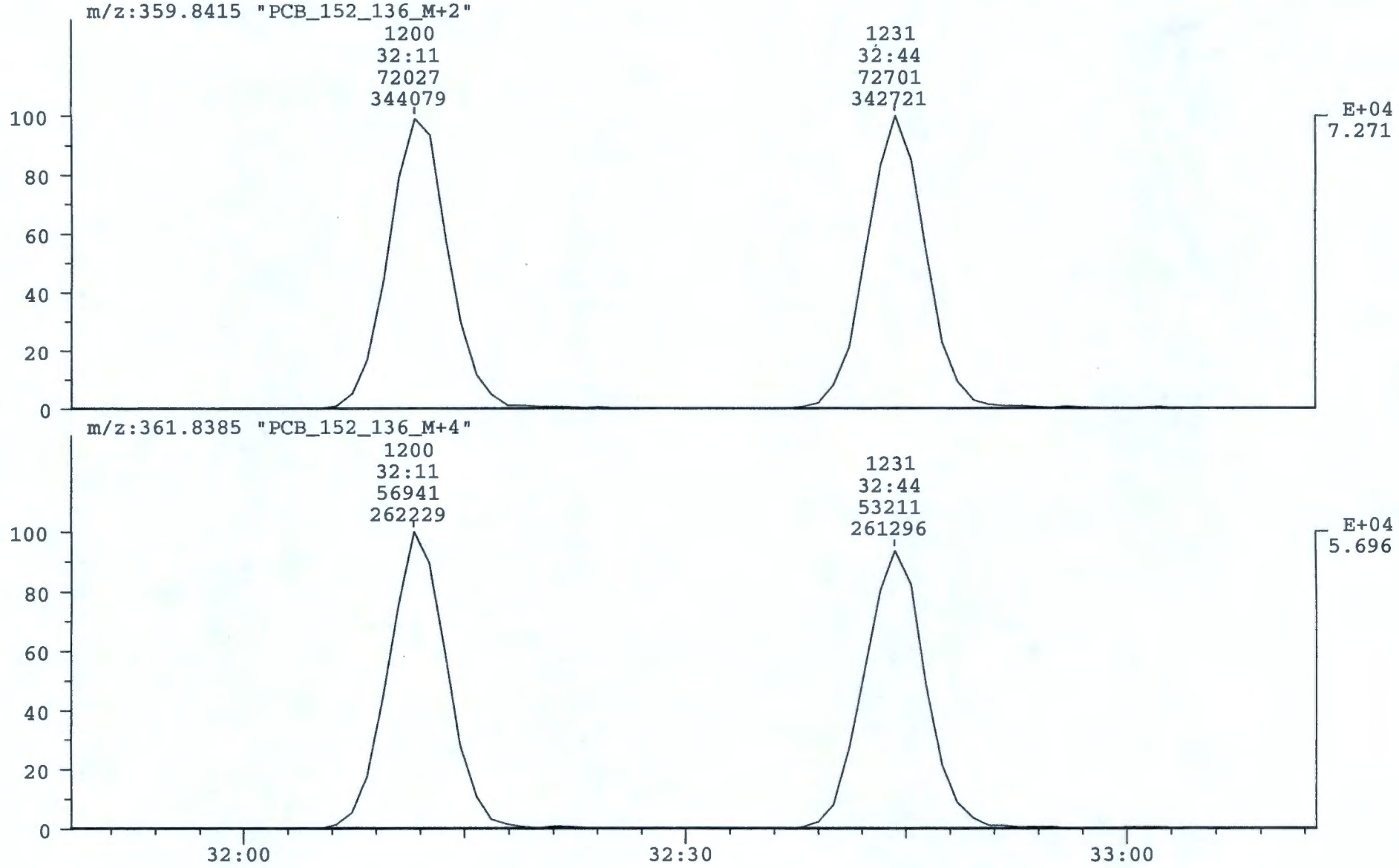
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  39:43      1623
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1551 > 1695          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



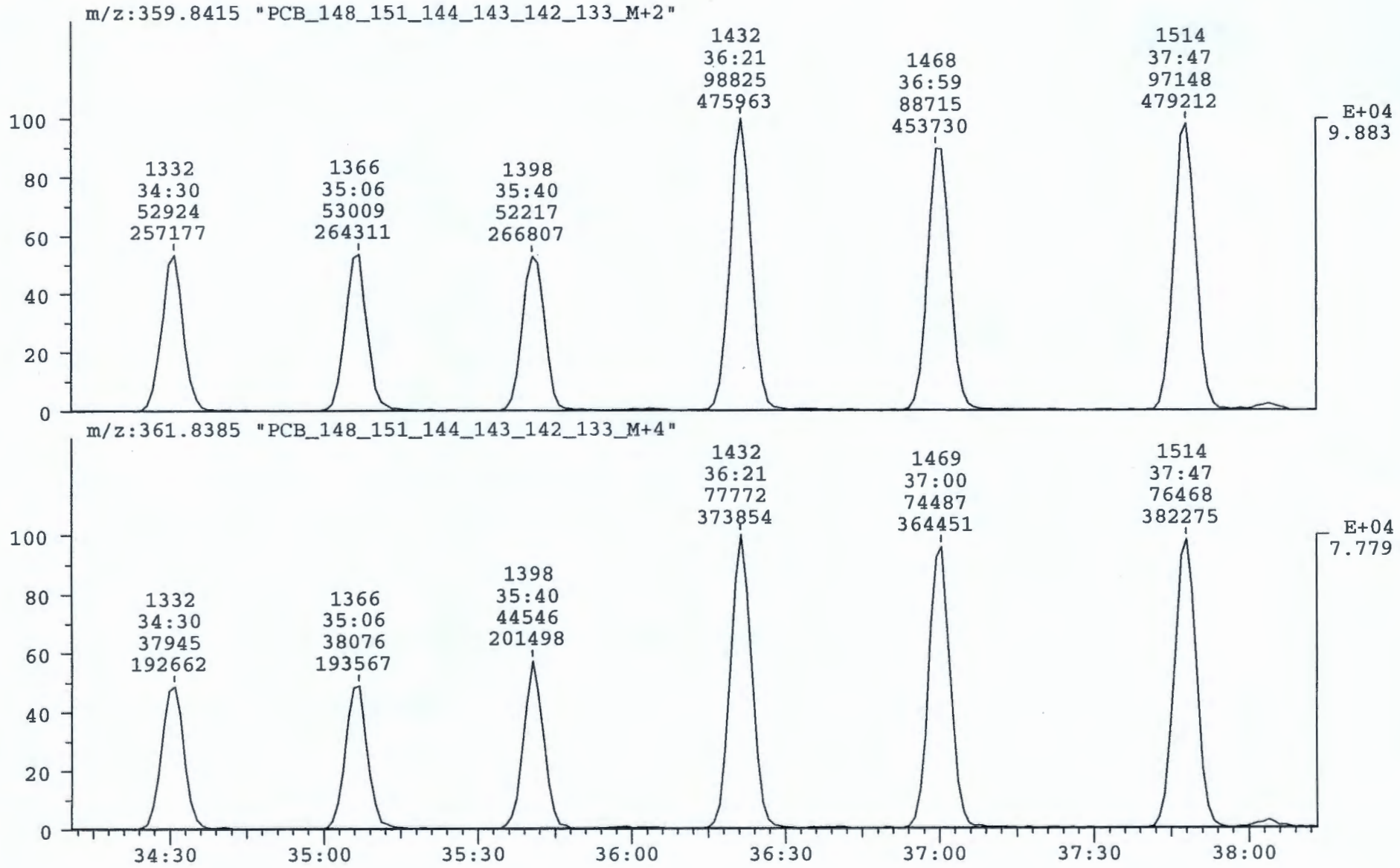
CHRO: a0806m1r2 10-Jun-08 Elapse: 45:31 1953
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 19:43:17 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1788 > 2108 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



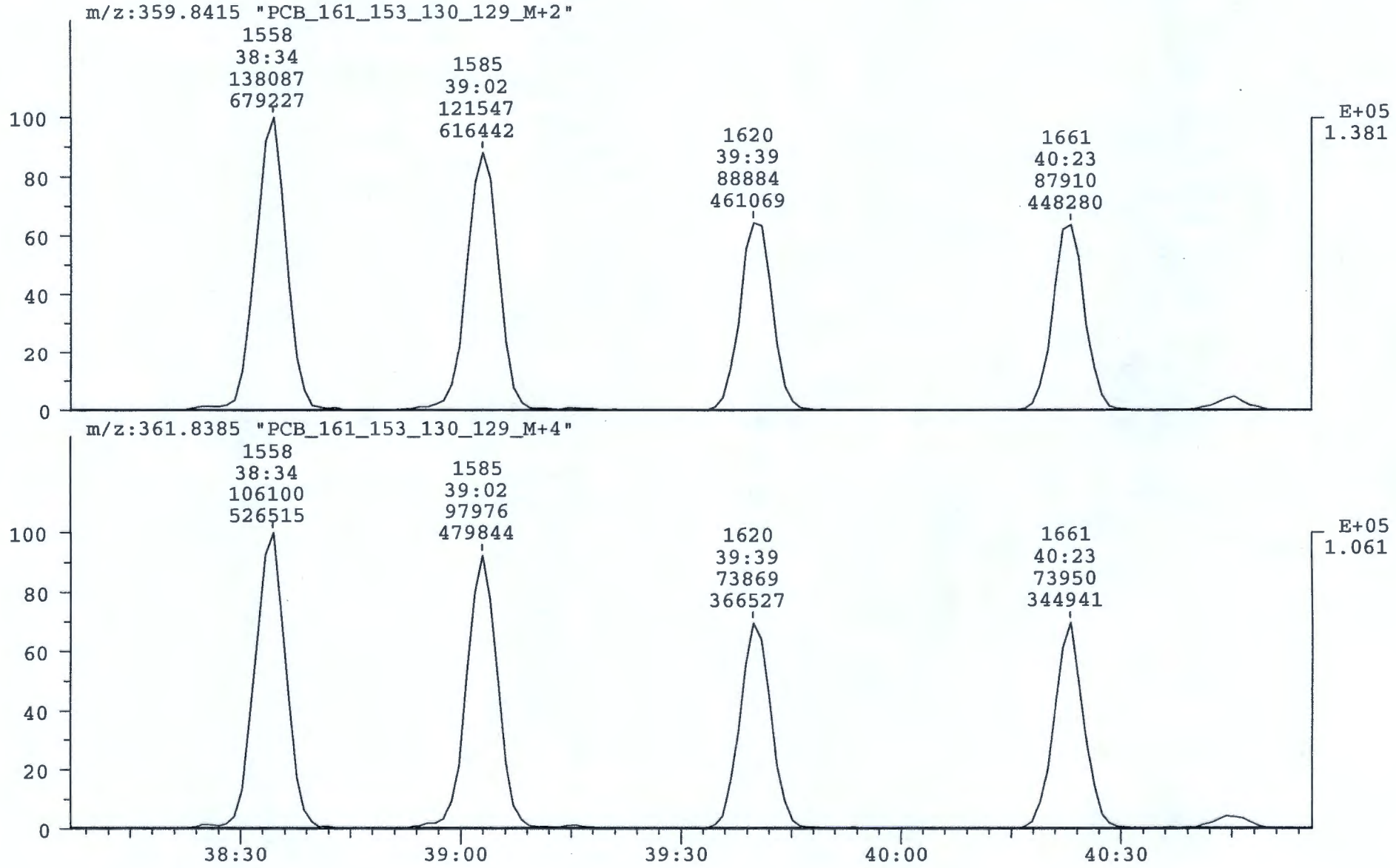
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  32:30      1218
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1178 > 1258          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



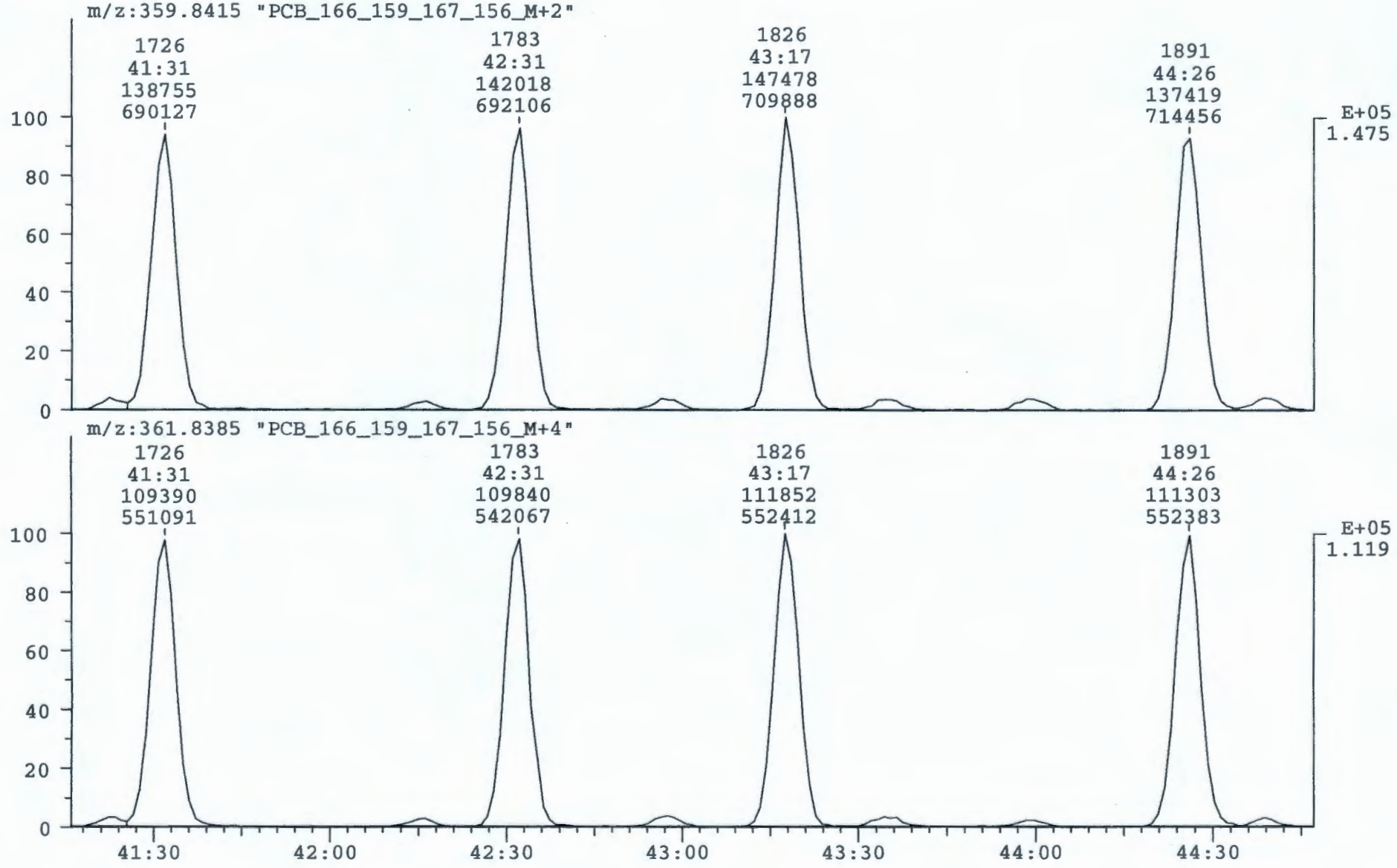
```
CHRO:  a0806m1r2                              10-Jun-08   Elapse:  36:11      1423
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1              Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1313 > 1538         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



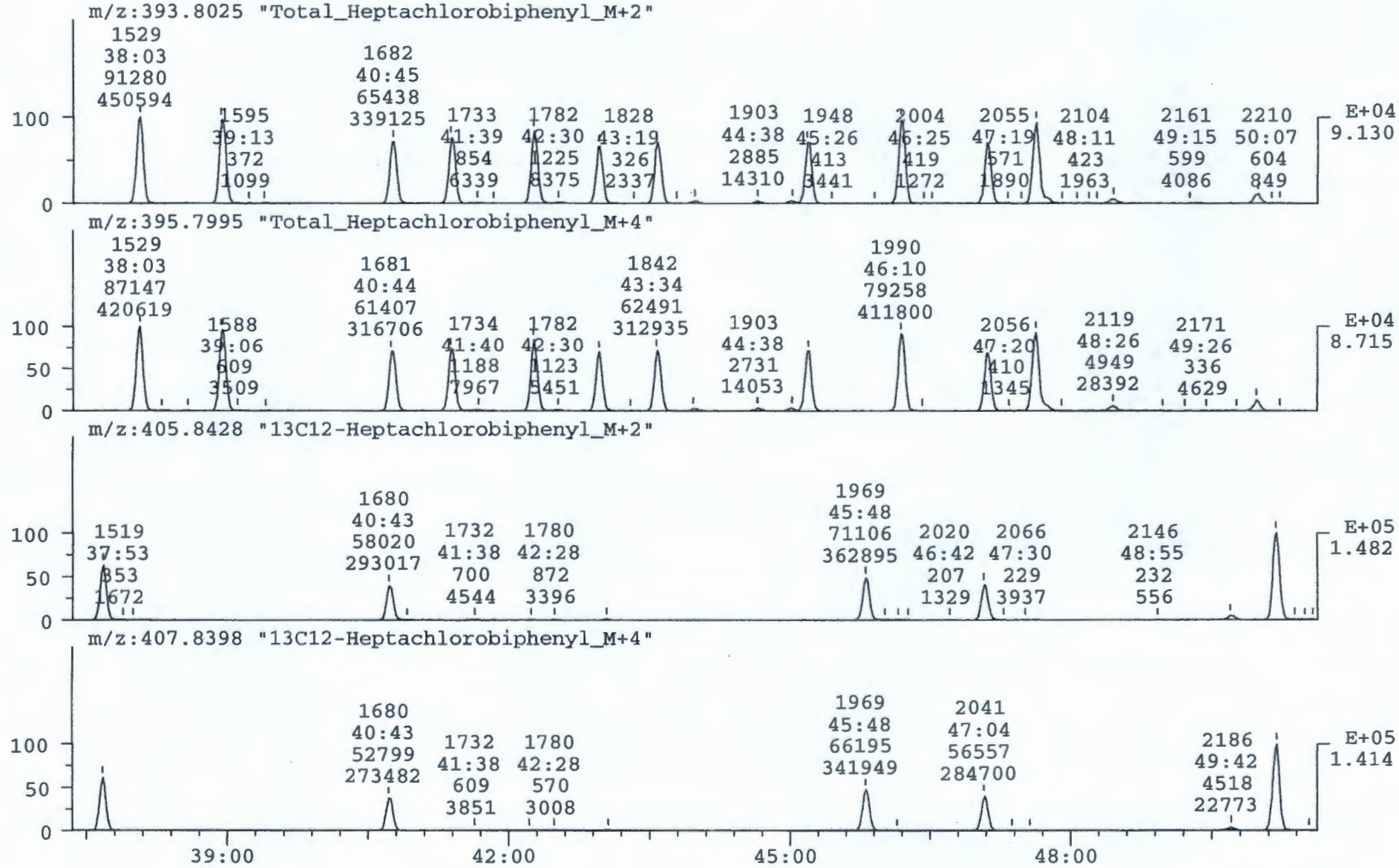
```
CHRO:  a0806m1r2                              10-Jun-08   Elapse:  39:31      1612
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1              Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1532 > 1692         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



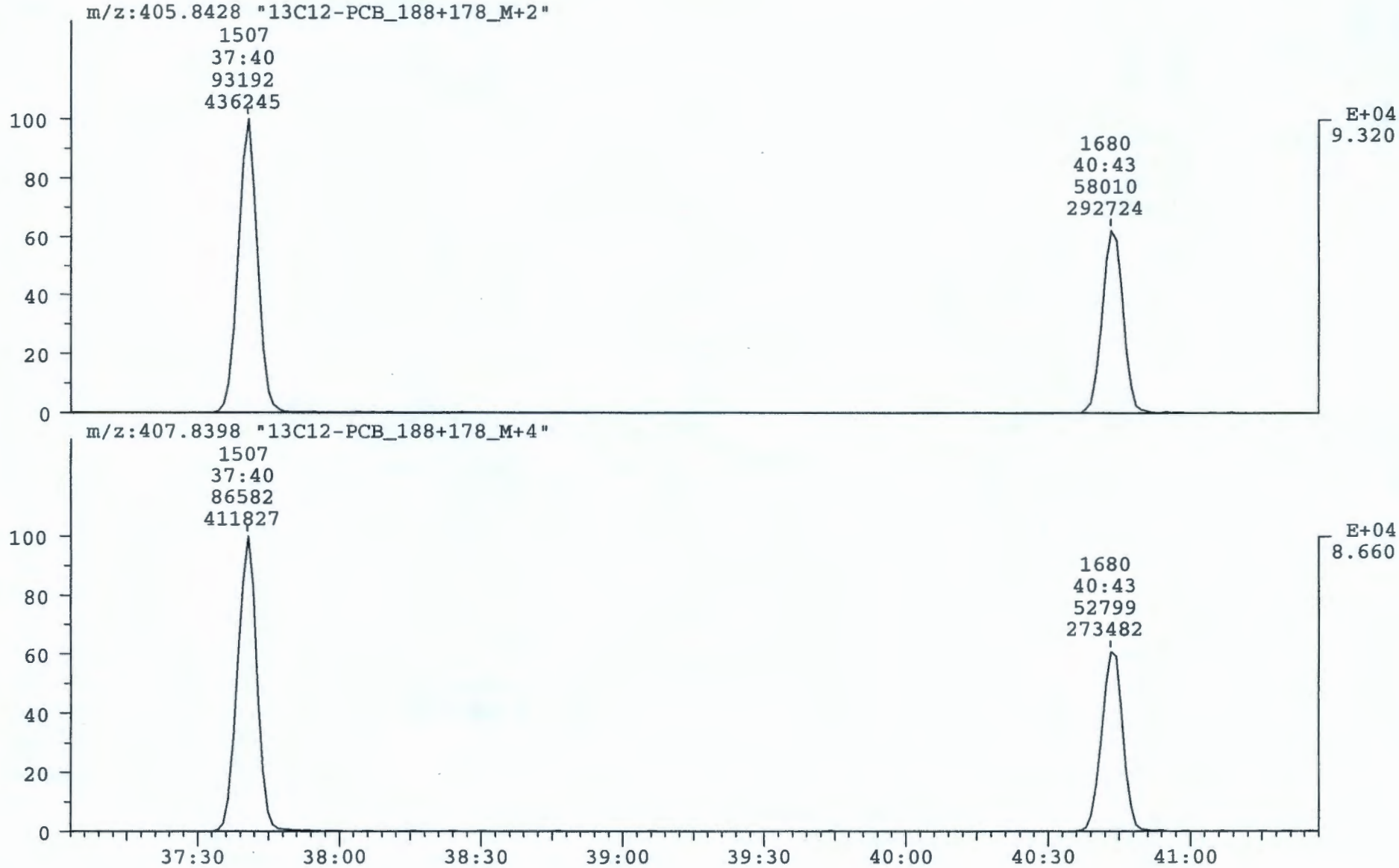
```
CHRO:  a0806m1r2                              10-Jun-08  Elapse:  43:01      1811
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1             Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1711 > 1911        Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



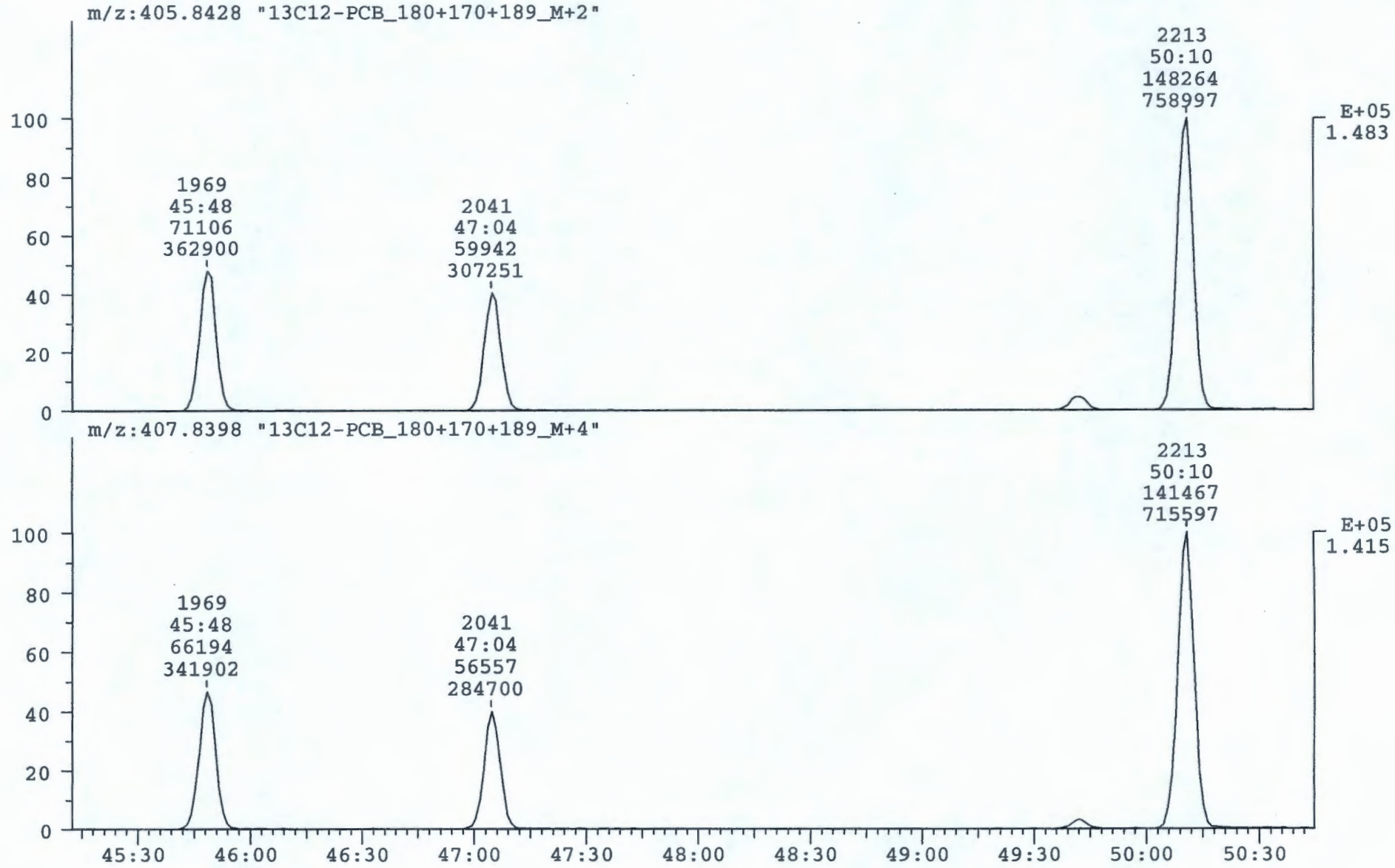
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  43:58      1865
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1489 > 2238          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



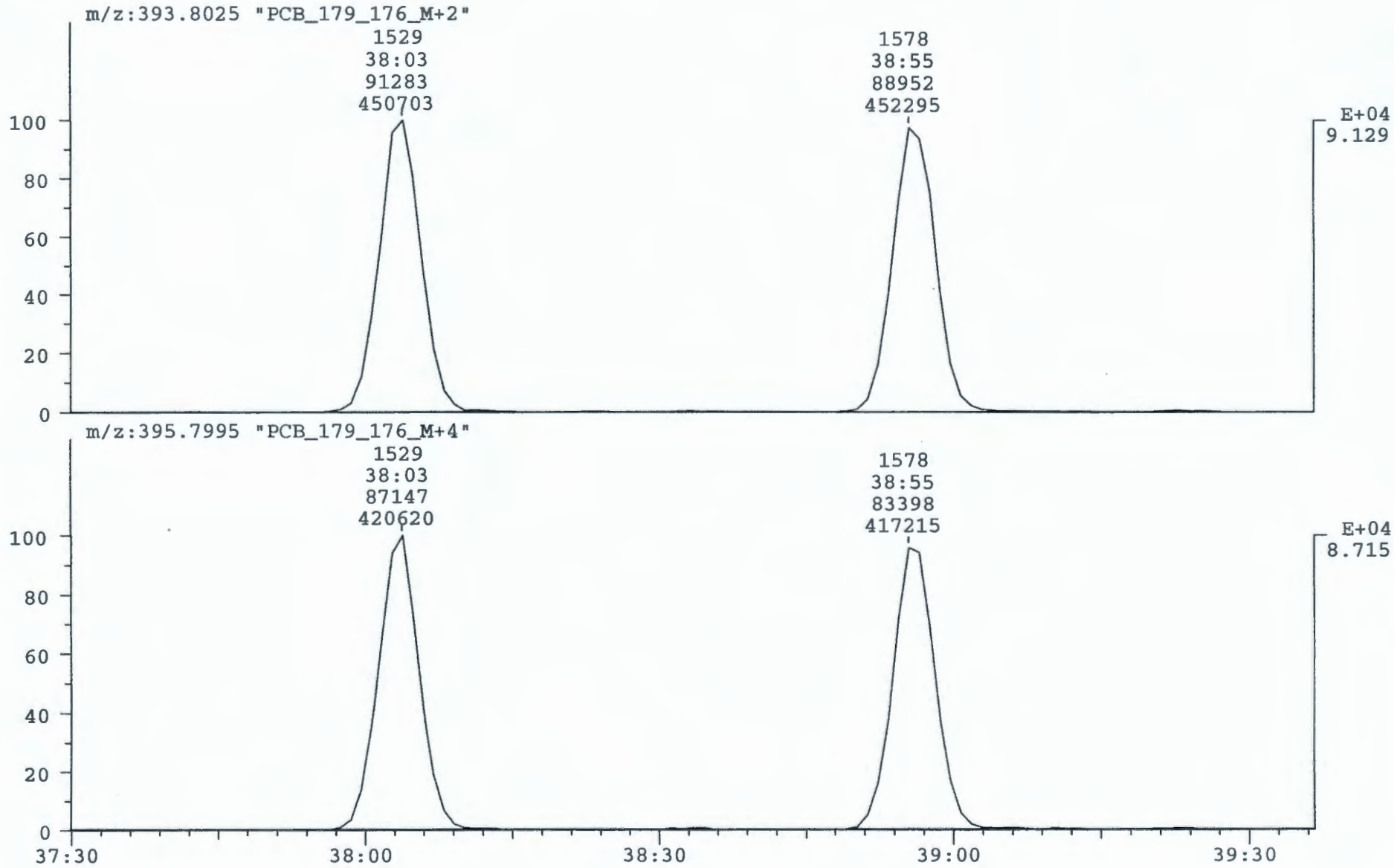
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  39:15      1597
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1472 > 1721          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



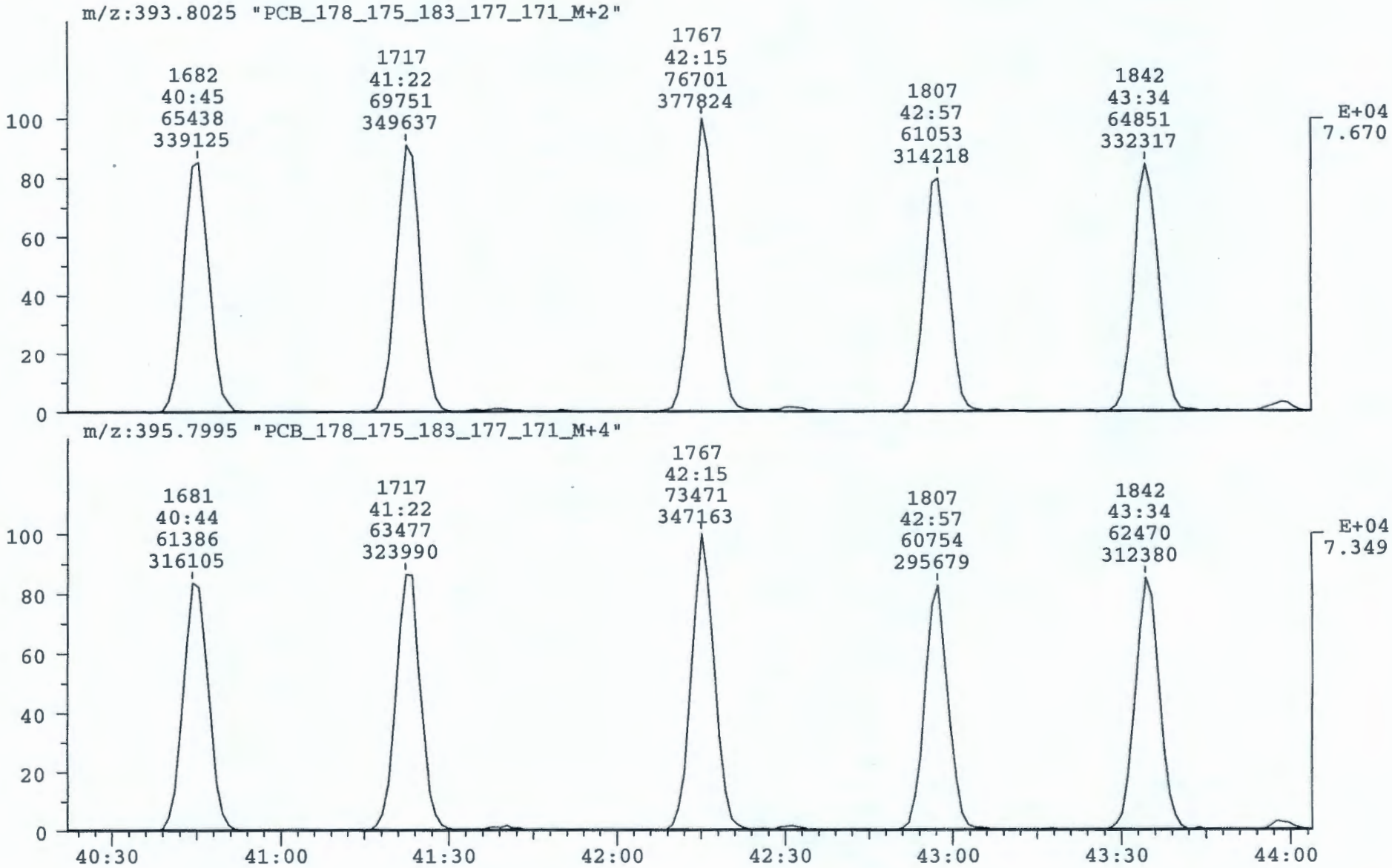
CHRO: a0806m1r2 10-Jun-08 Elapse: 48:01 2095
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 19:43:17 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1935 > 2245 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



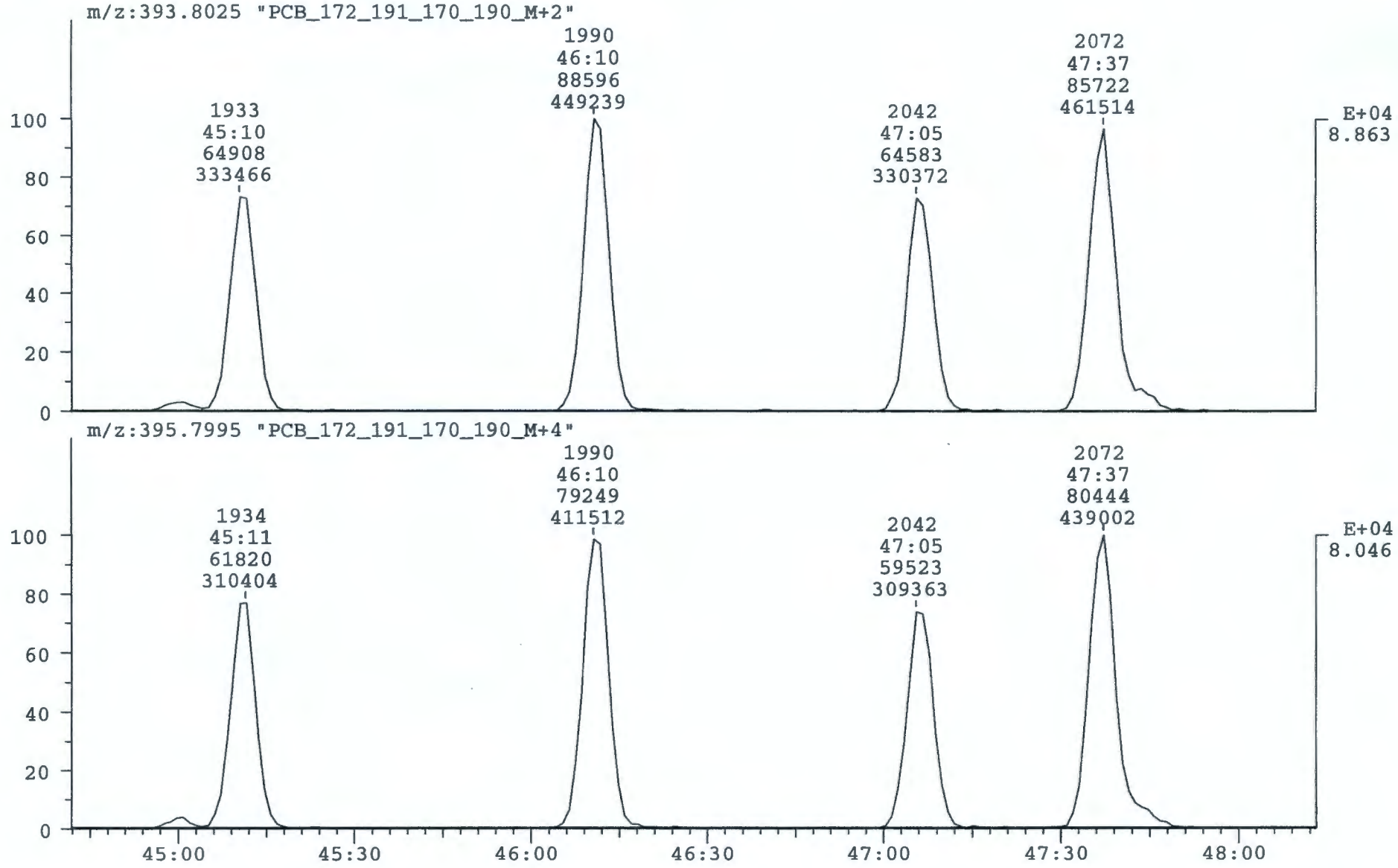
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  38:33      1557
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  11
Peak:  100.00  ppm     Label wndw:   1497 > 1617           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



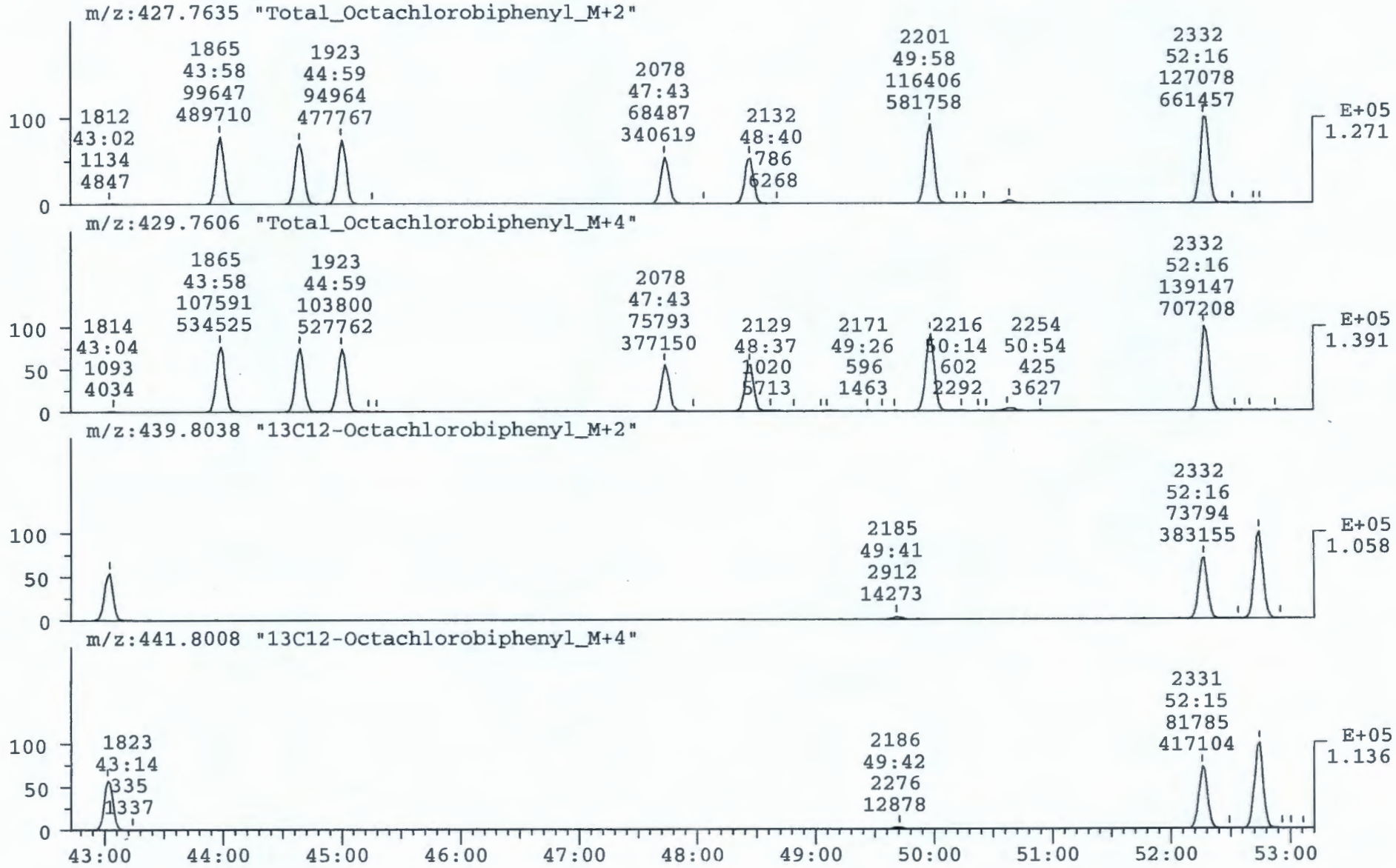
CHRO: a0806m1r2 10-Jun-08 Elapse: 42:12 1765
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 19:43:17 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1660 > 1870 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



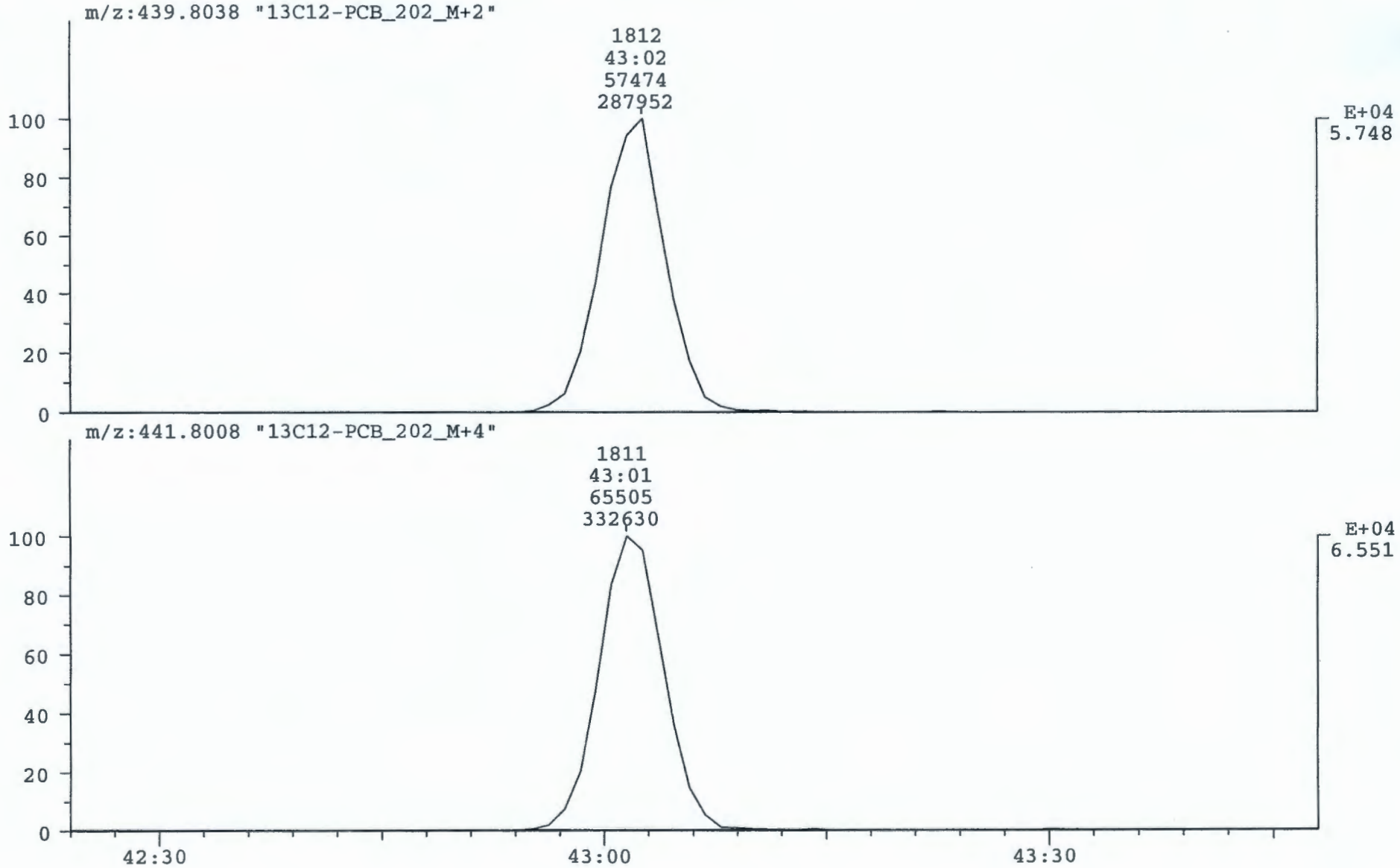
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  46:27      2006
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  11
Peak:  100.00  ppm     Label wndw:   1906 > 2106           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



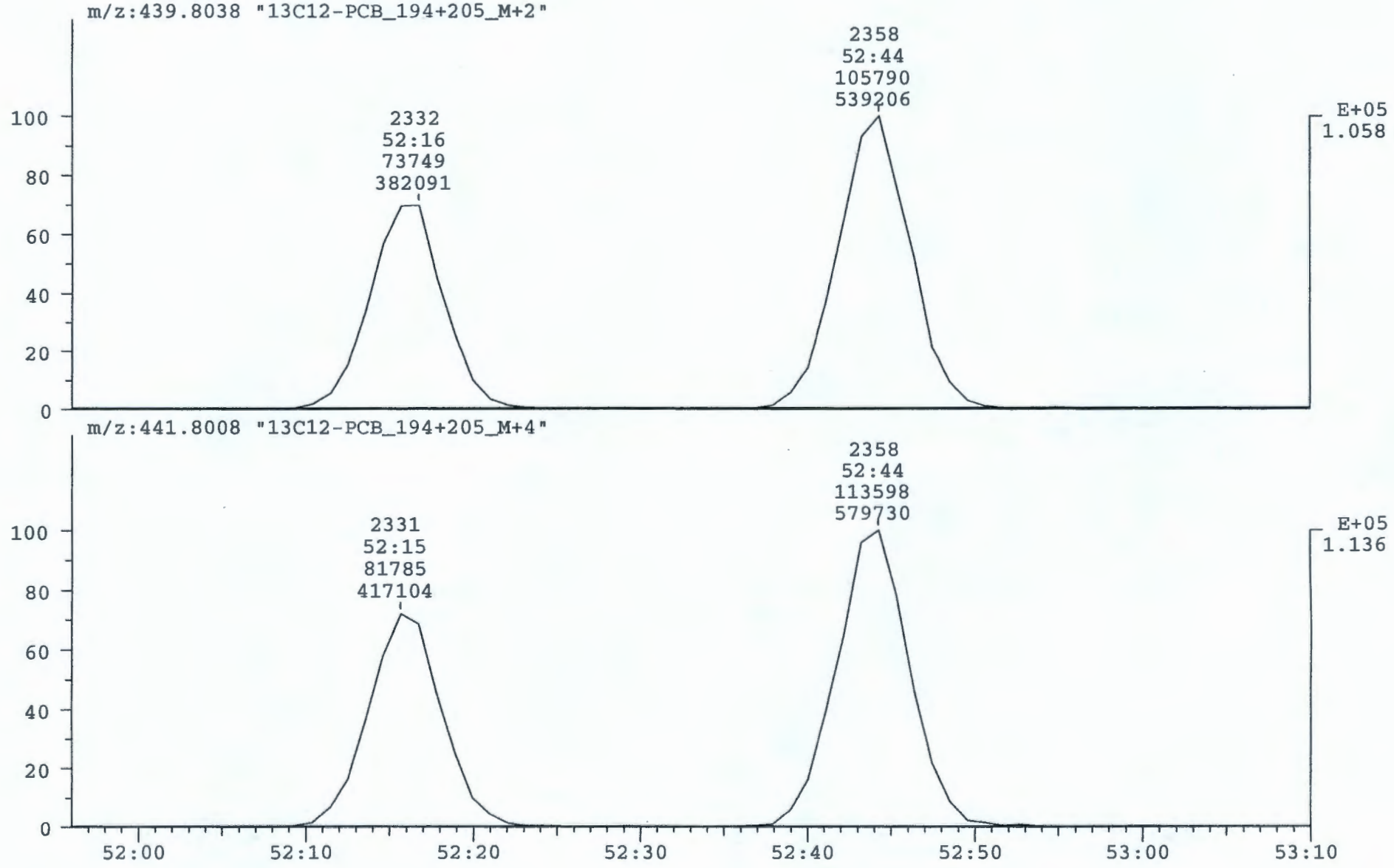
CHRO: a0806m1r2 10-Jun-08 Elapse: 47:57 2091
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 19:43:17 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1793 > 2384 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



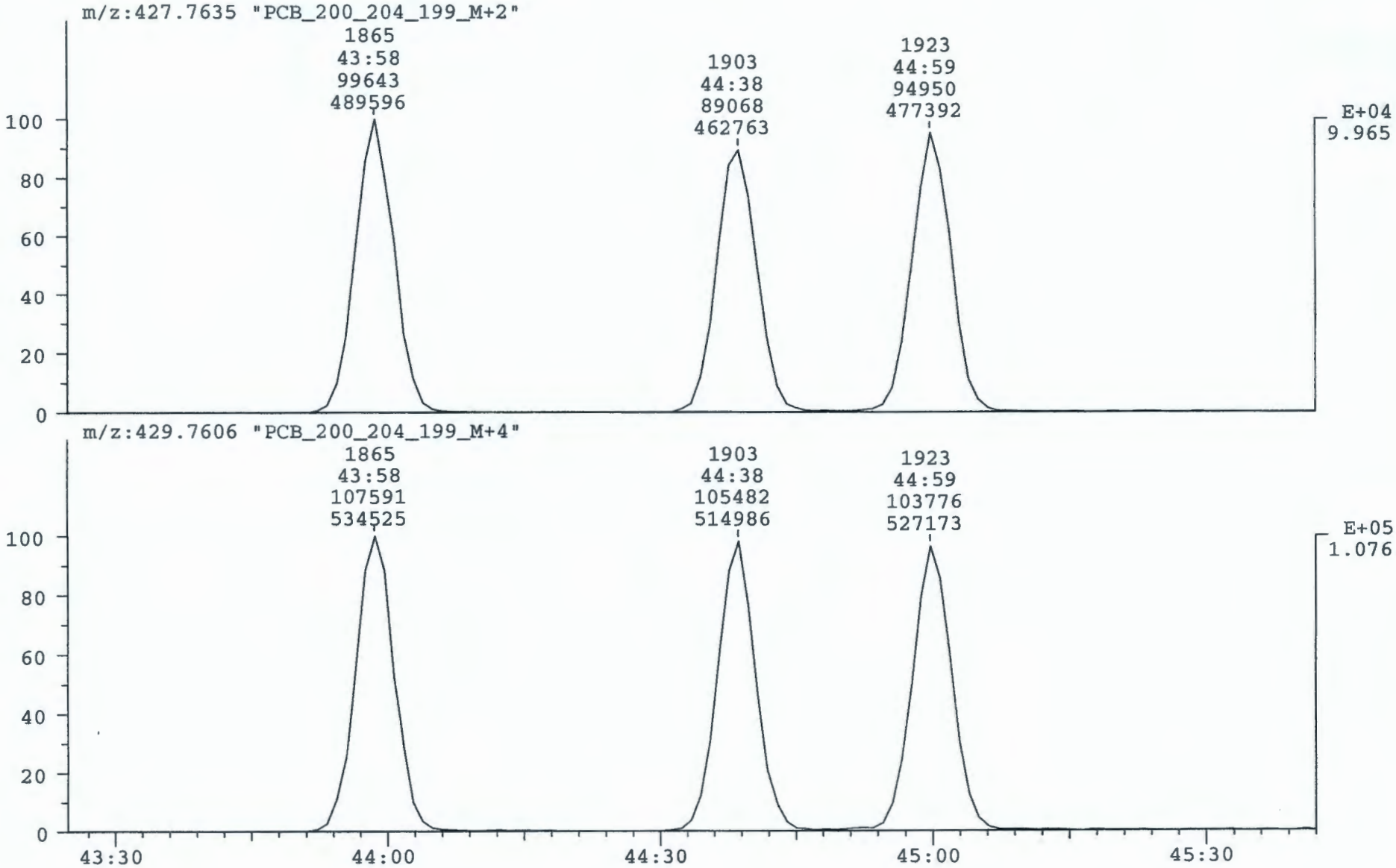
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  43:02      1812
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1775 > 1855           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



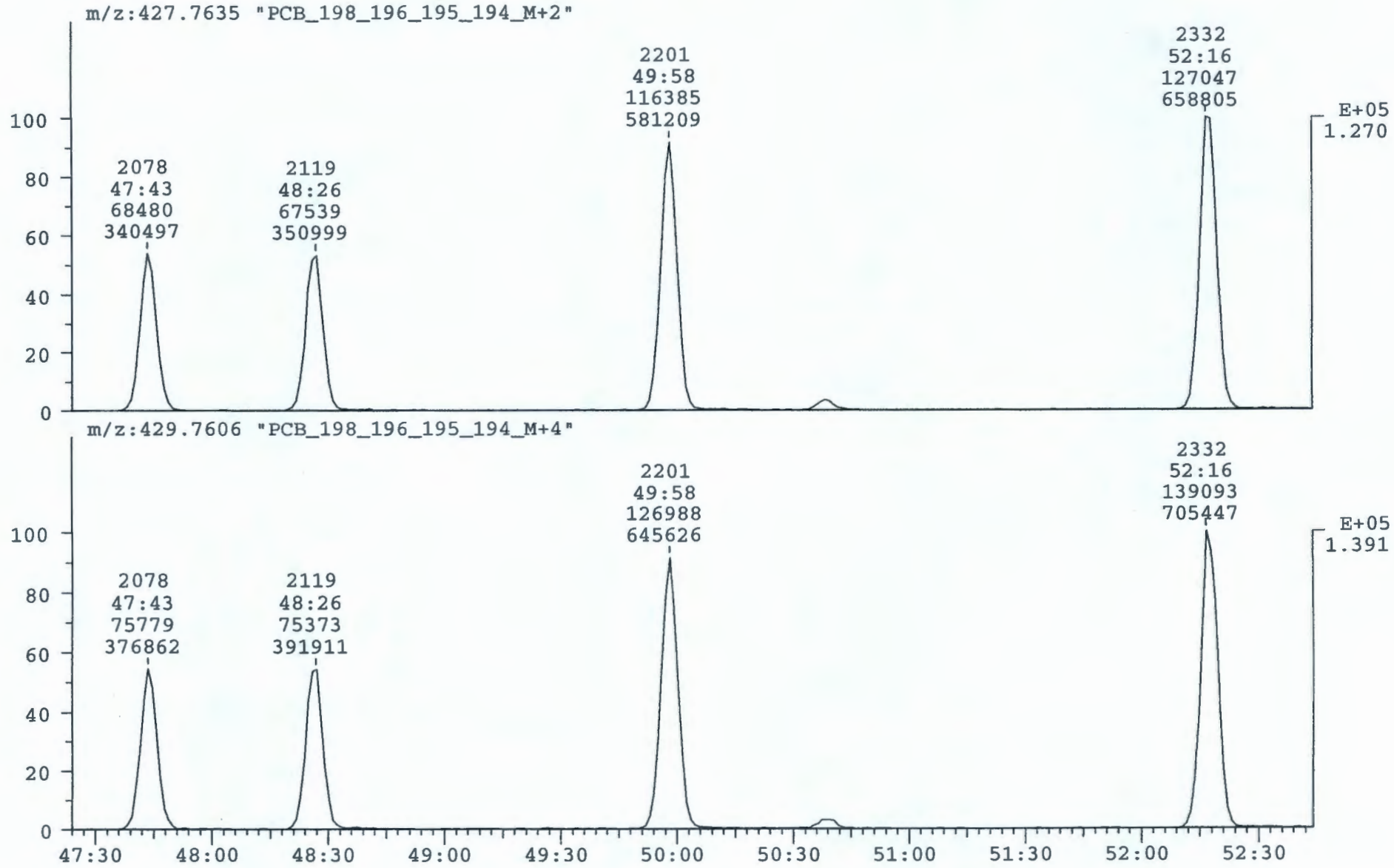
```
CHRO:  a0806m1r2                                10-Jun-08   Elapse:  52:32      2347
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1                Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  2990:75 Mix 1
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial  11
Peak:  100.00  ppm     Label wndw:   2312 > 2382            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



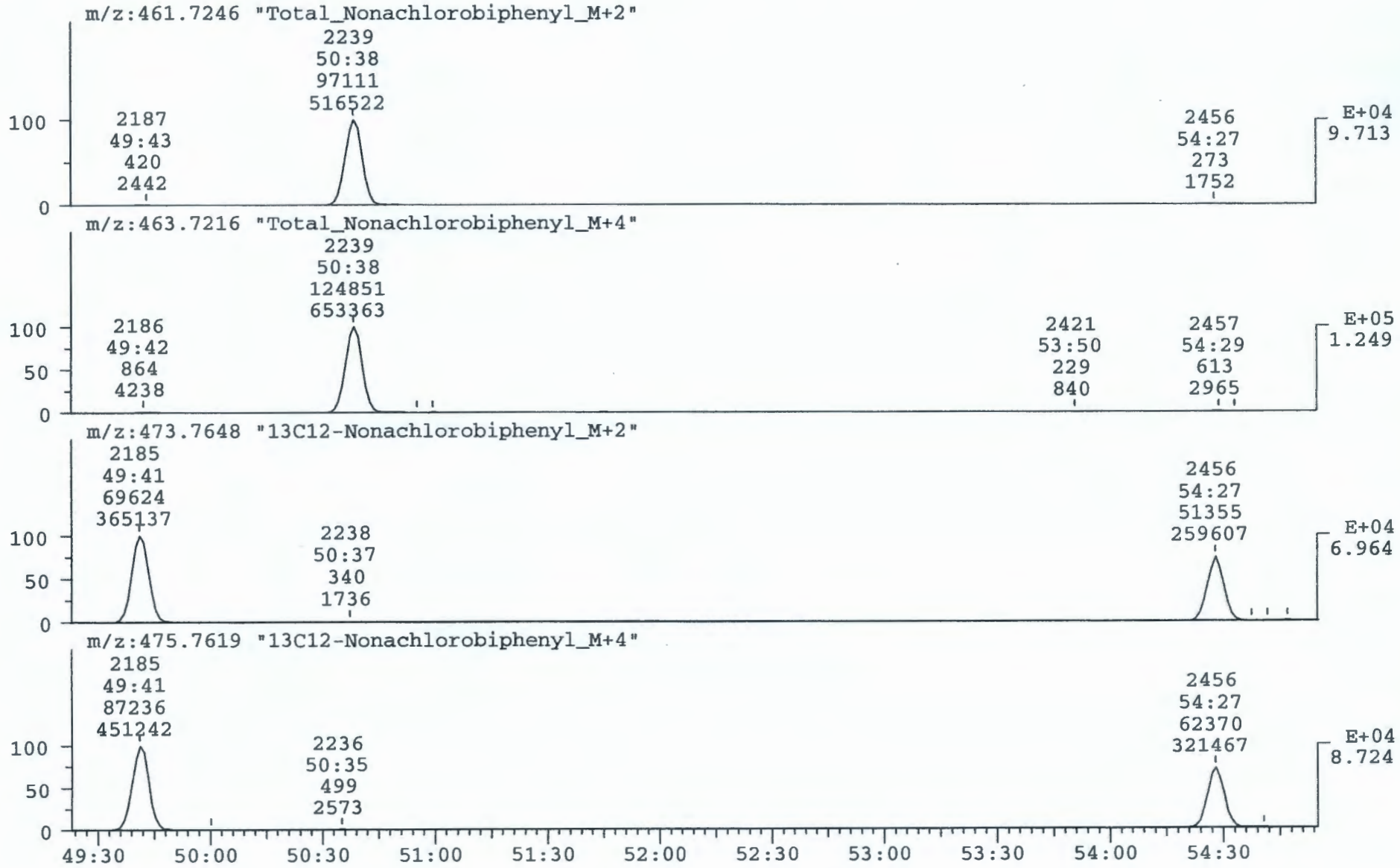
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  44:33      1898
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1833 > 1963          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



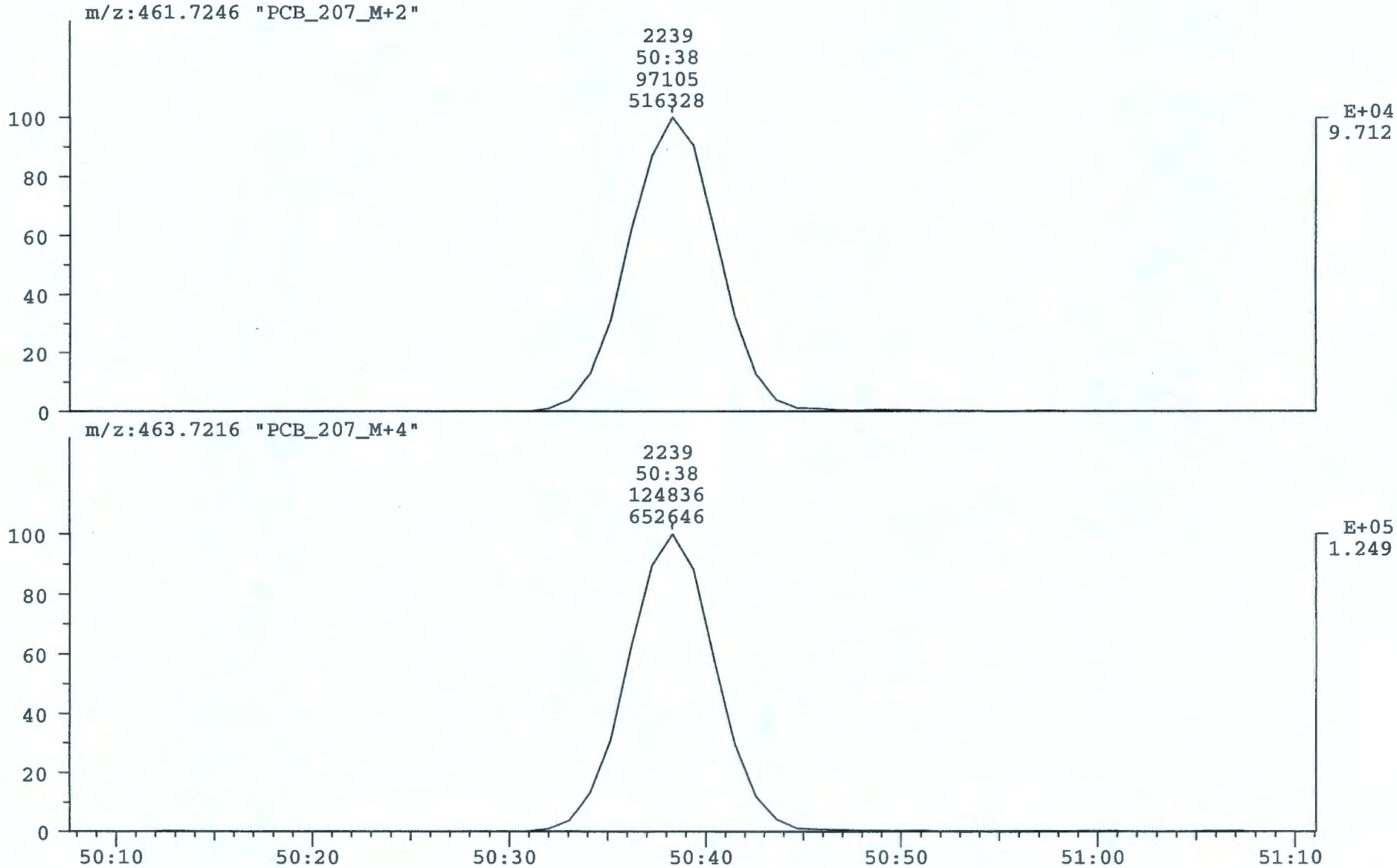
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  50:04      2207
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2060 > 2358          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



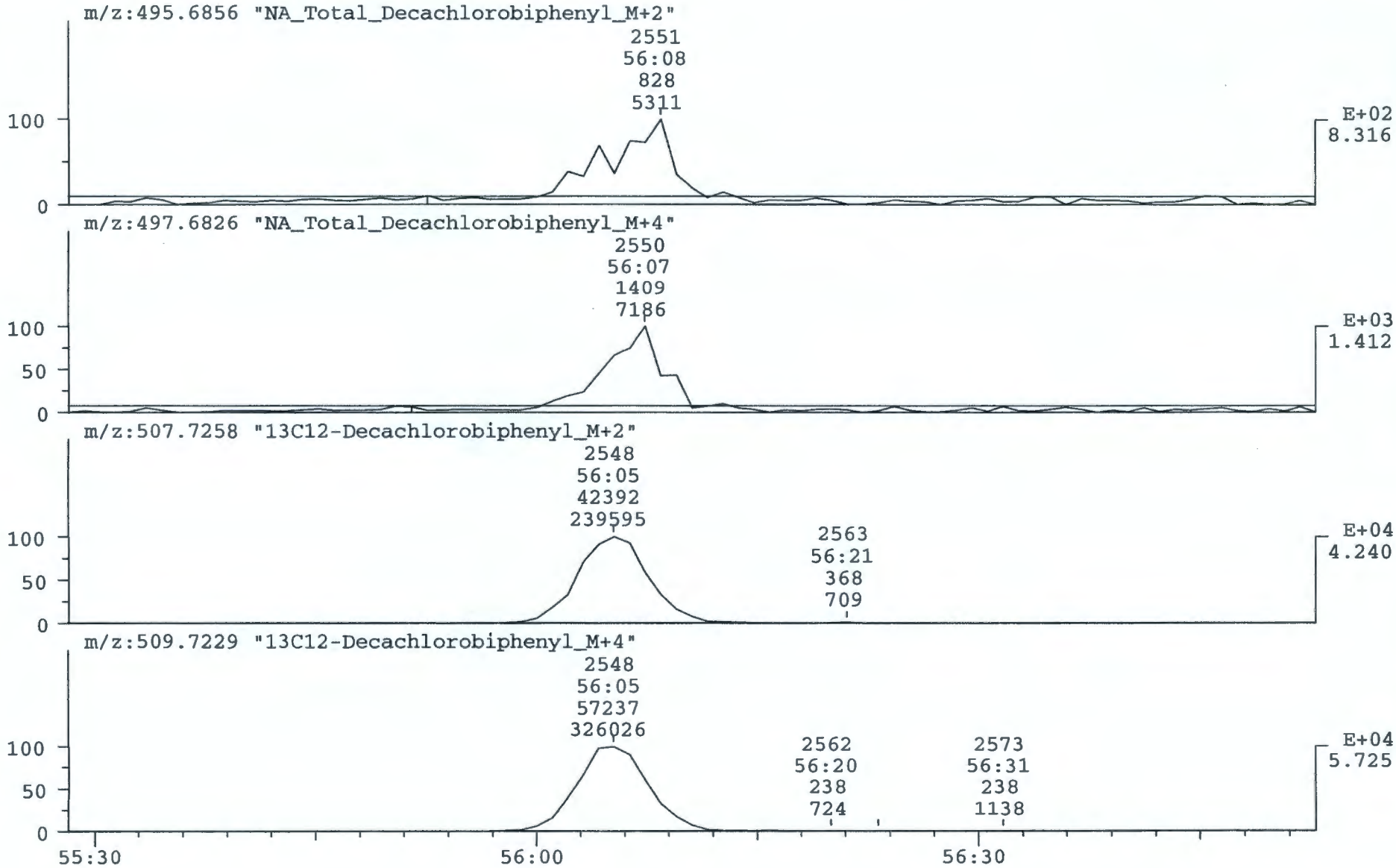
```
CHRO:  a0806m1r2                                10-Jun-08  Elapse:  52:09      2325
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2168 > 2482          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a0806m1r2                              10-Jun-08   Elapse:  50:39      2240
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1              Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2210 > 2270         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a0806m1r2                              10-Jun-08   Elapse:  56:10      2553
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1              Start :  19:43:17   2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  11
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
```



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: a0806m1r2
Study: 2990:75 Mix 1
Sample: WO=2990:75Mix1 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: TA Knoxville
Comments: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Injected volume: 2.00
Sample from Vial 11
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 6 of list 080609
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	10:40 min	21:40 min	1.00 sec
# 2	21:40 min	14:12 min	35:52 min	1.00 sec
# 3	35:52 min	13:13 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	l	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 : 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 0.0 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.0953
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.5529
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-19.0500
DRAWC	1.0000	DRAWS	0.0100	ECORR	1.0010
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0000
EDACR	23.0000	EDACZ	394.0000	ELEN	56.5000
EMULT	1.5200	ENS	460.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	146.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	357.0000
FVINLET	273.0000	FVSRC	985.0000	FWIN	0.7000
GCTC	203.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.3137	HVANAL	1284.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4776.5520	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	1333.0000	LENSS	106.4000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2347820.5477

MDACR	23.0000	MRANGE	1032.0953	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2609.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-4.3000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10106.3166	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2717.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.1400	TCURR	0.8984
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	2.2200	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	1.2000	YLENS	3276.0000	YLENSS	-27.6000

```
Scantype is  electric
Sourcemode is  EI POS

Analysis started at: 10-Jun-08 19:43:17.6

Autosampler has injected sample from vial 11
MID Time Window 1: Resolution is 8227
MID Time Window 2: Resolution is 8965
MID Time Window 3: Resolution is 10716
MID Time Window 4: Resolution is 10657
 Analysis stopped at: 10-Jun-08 20:40:20.9   (run time 57.04 minutes)
Analysis stopped because MID run finished
```

TestAmerica
Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r3.	Prep Date		SDG No	
Analysis ID	104456	Prep Exp Date		Date Received	
Analysis Date	06/11/08 00:48	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	133	158	53	63	0.84 *	/	
	PCB 2 (BZ)	14:03	00:00	0	897074	267743	314631	92963	3.35	ABV/ABV	
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	190	223	76	89	0.85 *	/	
	13C12-PCB 1	12:01	00:00	0	1362133	404644	523806	155320	3.37	AVV/AVV	
	13C12-PCB 3	14:13	00:00	0	1367990	400050	461814	139218	3.42	ABV/ABV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	110	245	44	98	0.45 *	/	
	PCB 10 (BZ)	14:40	00:00	0	360755	226531	118659	76847	1.59	AVB/AVV	
	PCB 9 (BZ)	16:29	00:00	0	385507	246671	117330	73705	1.56	ABV/ABV	
	PCB 6 (BZ)	16:54	00:00	0	369507	227007	110082	63650	1.63	ABV/ABV	
	PCB 8 (BZ)	17:20	00:00	0	383553	245722	114275	71490	1.56	AVV/AVB	
	PCB 14 (BZ)	18:58	00:00	0	372352	249844	95924	65725	1.49	ABV/ABV	M
	PCB 11 (BZ)	19:49	00:00	0	348290	220260	90931	58184	1.58	AVV/ABV	M
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	200	135	80	54	1.48	/	
	13C12-PCB 4	14:29	00:00	0	358322	241439	118708	80711	1.48	AVV/AVV	
	13C12-PCB 9	16:28	00:00	0	603019	383967	176780	112441	1.57	AVV/AVV	
	13C12-PCB 8	17:19	00:00	0	655086	424366	190288	124153	1.54	AVV/AVV	
	13C12-PCB 15	20:26	00:00	0	612711	401638	162740	108512	1.53	ABV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	140	110	56	44	1.27 *	/	
	PCB 30 (BZ)	19:28	00:00	0	168580	170031	43818	44967	0.99	ABV/ABV	M
	PCB 27 (BZ)	20:10	00:00	0	170523	169988	46124	44070	1.00	ABV/ABV	
	PCB 32 (BZ)	20:56	00:00	0	186683	188139	47222	48006	0.99	ABV/AVB	M
	PCB 34 (BZ)	22:11	00:00	0	558802	520496	136285	126469	1.07	ABV/ABV	M
	PCB 26 (BZ)	22:40	00:00	0	573879	533136	135885	129721	1.08	AVV/ABV	D
	PCB 31 (BZ)	23:12	00:00	0	608932	581157	154244	145029	1.05	AVV/AVV	M
	PCB 33 (BZ)	23:45	00:00	0	562451	531805	137150	131380	1.06	AVV/AVV	M
	PCB 36 (BZ)	25:41	00:00	0	596074	568929	137814	137213	1.05	AVV/ABV	M
	PCB 38 (BZ)	26:38	00:00	0	570176	538882	123329	118603	1.06	ABV/AVV	M
	PCB 35 (BZ)	27:07	00:00	0	568407	521781	132603	120959	1.09	AVV/AVV	
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	223	178	89	71	1.25 *	/	
	13C12-PCB 19	17:38	00:00	0	207824	204803	56313	59750	1.01	AVV/AVV	
	13C12-PCB 32	20:55	00:00	0	359094	345326	96192	93690	1.04	AVB/AVV	
	13C12-PCB 31	23:11	00:00	0	1009761	938615	242290	230996	1.08	ABV/ABV	
	13C12-PCB 28	23:29	00:00	0	983009	905719	231285	215667	1.09	AVV/AVV	
	13C12-PCB 37	27:30	00:00	0	928069	849626	201958	189281	1.09	AVV/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	145	168	58	67	0.87	/	
	PCB 50 (BZ)	22:58	00:00	0	412468	518881	102096	127107	0.79	ABV/ABV	DM

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

TestAmerica Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r3.	Prep Date		SDG No	
Analysis ID	104456	Prep Exp Date		Date Received	
Analysis Date	06/11/08 00:48	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 45 (BZ)	23:37	00:00	0	375408	476204	90435	112703	0.79	ABV/ABB	M
	PCB 52 (BZ)	25:21	00:00	0	446145	518210	99135	123249	0.86	ABV/ABV	D
	PCB 49 (BZ)	25:50	00:00	0	443820	558928	102980	129469	0.79	AVV/AVV	DM
	PCB 75 (BZ)	26:42	00:00	0	596407	759139	136805	177373	0.79	ABV/ABV	DM
	PCB 41 (BZ)	27:15	00:00	0	362692	457572	81581	103409	0.79	AVV/AVV	D
	PCB 72 (BZ)	28:24	00:00	0	595882	749460	136895	167876	0.80	ABV/ABV	
	PCB 57 (BZ)	29:07	00:00	0	557540	698692	127450	154881	0.80	AVV/AVV	
	PCB 63 (BZ)	29:48	00:00	0	583056	731743	130928	164286	0.80	AVV/ABV	
	PCB 66 (BZ)	30:28	00:00	0	590842	731043	133786	166852	0.81	ABV/ABB	
	PCB 79 (BZ)	33:17	00:00	0	625281	775922	129326	167835	0.81	ABV/ABV	
	PCB 78 (BZ)	33:50	00:00	0	577986	727700	124228	160002	0.79	AVV/ABV	
	PCB 81 (BZ)	34:17	00:00	0	596973	730380	126255	156217	0.82	AVV/AVV	
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**0.65-0.89**		
	Noise	00:00	00:00	0	118	128	47	51	0.92 *	/	
	13C12-PCB 54	20:45	00:00	0	205688	253874	53692	63711	0.81	AVV/ABV	
	13C12-PCB 52	25:19	00:00	0	343438	429742	81061	100097	0.80	ABV/ABV	
	13C12-PCB 79	33:15	00:00	0	527859	663729	116400	140411	0.80	ABV/ABV	
	13C12-PCB 81	34:16	00:00	0	459690	571870	98177	123229	0.80	ABV/ABB	
	13C12-PCB 77	34:51	00:00	0	468933	576796	99961	119412	0.81	AVV/ABV	
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	Noise	00:00	00:00	0	133	140	53	56	0.95 *	/	
	PCB 96 (BZ)	26:42	00:00	0	453009	276663	100281	61840	1.64	ABV/ABV	
	PCB 103 (BZ)	28:36	00:00	0	381179	229752	80811	47530	1.66	ABV/ABV	D
	PCB 95 (BZ)	29:17	00:00	0	361834	216210	81007	47009	1.67	AVV/ABV	
	PCB 88 (BZ)	30:02	00:00	0	318779	197209	70795	39986	1.62	ABV/AVV	
	PCB 89 (BZ)	30:51	00:00	0	318682	194341	68442	42793	1.64	ABV/ABV	
	PCB 92 (BZ)	31:37	00:00	0	339066	205236	72650	44860	1.65	ABV/ABB	
	PCB 113 (BZ)	32:08	00:00	0	445081	269853	91192	57581	1.65	AVV/ABV	
	PCB 83 (BZ)	32:41	00:00	0	302246	185453	62060	38749	1.63	AVV/AVB	
	PCB 119 (BZ)	33:17	00:00	0	491976	305861	104141	67213	1.61	ABV/ABV	DM
	PCB 87 (BZ)	33:24	00:00	0	348800	211672	74137	42049	1.65	AVV/AVV	M
	PCB 85 (BZ)	34:01	00:00	0	366093	226251	76491	46575	1.62	ABV/ABV	DM
	PCB 82 (BZ)	34:30	00:00	0	299077	195533	62545	41228	1.53	ABV/ABB	
	PCB 120 (BZ)	35:20	00:00	0	523354	320106	107932	65741	1.63	ABB/ABB	D
	PCB 124 (BZ)	36:30	00:00	0	1034040	634162	207176	130109	1.63	AVV/AVV	D
	PCB 106 (BZ)	36:57	00:00	0	1062199	652430	217333	132261	1.63	AVV/AVV	
	PCB 122 (BZ)	37:31	00:00	0	977145	621266	201362	124893	1.57	AVV/AVV	D
	PCB 105 (BZ)	38:22	00:00	0	1046147	651256	218836	137318	1.61	ABV/ABV	
	PCB 127 (BZ)	39:49	00:00	0	1103460	669932	226517	138252	1.65	AVV/AVB	D
338					**337.9207**	**339.9178**	**337.9207**	**339.9178**	**1.32-1.78**		
	Noise	00:00	00:00	0	128	120	51	48	1.06 *	/	
	13C12-PCB 104	26:16	00:00	0	434552	262059	99772	57297	1.66	ABV/ABV	
	13C12-PCB 95	29:15	00:00	0	351294	214708	75191	48131	1.64	ABV/ABV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
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TestAmerica
Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r3.	Prep Date		SDG No	
Analysis ID	104456	Prep Exp Date		Date Received	
Analysis Date	06/11/08 00:48	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
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	13C12-PCB 101	32:10	00:00	0	339084	203721	73270	40817	1.66	AVV/AVV	
	13C12-PCB 111	34:51	00:00	0	436056	269145	95018	53668	1.62	ABV/ABV	
	13C12-PCB 123	36:49	00:00	0	923932	558605	192465	115816	1.65	ABV/ABV	
	13C12-PCB 118	37:09	00:00	0	968231	596479	197230	122630	1.62	AVV/AVV	
	13C12-PCB 114	37:41	00:00	0	940420	574055	195055	119514	1.64	AVV/AVV	
	13C12-PCB 105	38:20	00:00	0	923225	562949	191072	120302	1.64	AVV/AVB	
	13C12-PCB 127	39:48	00:00	0	1014946	613347	211806	129265	1.65	ABV/ABV	
	13C12-PCB 126	41:25	00:00	0	979980	599426	200906	123571	1.63	AVV/ABV	
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	145	148	58	59	0.98 *	/	
	PCB 152 (BZ)	32:11	00:00	0	323464	249997	69323	52903	1.29	ABV/ABV	D
	PCB 136 (BZ)	32:43	00:00	0	325096	252446	67270	50914	1.29	ABV/ABV	D
	PCB 148 (BZ)	34:29	00:00	0	251134	196785	55180	38746	1.28	ABV/ABB	
	PCB 151 (BZ)	35:05	00:00	0	247597	194306	49354	40639	1.27	ABV/ABV	
	PCB 144 (BZ)	35:39	00:00	0	259195	198092	52703	40618	1.31	ABV/ABV	D
	PCB 143 (BZ)	36:21	00:00	0	471558	361725	96179	74908	1.30	AVV/ABV	
	PCB 142 (BZ)	36:59	00:00	0	451247	353441	90716	71891	1.28	ABV/ABV	D
	PCB 133 (BZ)	37:47	00:00	0	468707	366783	93225	75486	1.28	AVV/ABV	
	PCB 161 (BZ)	38:33	00:00	0	665996	512020	132932	103700	1.30	ABV/ABV	
	PCB 153 (BZ)	39:01	00:00	0	629799	484625	122385	94731	1.30	AVV/AVV	
	PCB 130 (BZ)	39:39	00:00	0	462170	362543	92509	72572	1.27	AVV/AVV	D
	PCB 129 (BZ)	40:21	00:00	0	440694	348184	87313	69402	1.27	AVV/ABV	
	PCB 166 (BZ)	41:30	00:00	0	670293	529260	132530	108018	1.27	AVV/AVV	
	PCB 159 (BZ)	42:30	00:00	0	670045	517216	134494	102856	1.30	AVV/AVV	
	PCB 167 (BZ)	43:17	00:00	0	688450	544166	142877	110997	1.27	AVV/AVV	
	PCB 156 (BZ)	44:24	00:00	0	724170	559364	140576	109357	1.29	ABV/ABV	D
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	183	160	73	64	1.14	/	
	13C12-PCB 155	31:55	00:00	0	325950	260600	70399	57279	1.25	ABV/ABV	
	13C12-PCB 153	39:00	00:00	0	560325	434437	114659	91752	1.29	ABV/ABV	
	13C12-PCB 138	40:16	00:00	0	512833	402371	101860	79960	1.27	ABV/ABV	M
	13C12-PCB 167	43:15	00:00	0	615094	477940	119640	96868	1.29	AVV/AVV	
	13C12-PCB 156	44:26	00:00	0	1247966	960497	163947	125141	1.30	AVV/ABV	
	13C12-PCB 169	47:39	00:00	0	603698	468415	120360	91581	1.29	ABV/ABV	
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	118	160	47	64	0.73 *	/	
	PCB 179 (BZ)	38:02	00:00	0	446148	414462	88771	84216	1.08	ABV/ABV	D
	PCB 176 (BZ)	38:55	00:00	0	448929	415120	86021	84470	1.08	ABV/ABV	D
	PCB 178 (BZ)	40:44	00:00	0	323535	317669	65255	64048	1.02	ABV/ABV	
	PCB 175 (BZ)	41:22	00:00	0	336987	325726	65968	68471	1.03	ABV/ABV	
	PCB 183 (BZ)	42:14	00:00	0	366636	342036	74038	68784	1.07	AVV/ABV	
	PCB 177 (BZ)	42:56	00:00	0	310915	290150	62011	59578	1.07	ABV/ABV	D
	PCB 171 (BZ)	43:34	00:00	0	329165	314914	63964	64192	1.05	ABV/ABB	

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TestAmerica
Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

Workorder	2990:75MIX1	Prep Batch		Lot No	
Data File	/20080610rt/a0806m1r3.	Prep Date		SDG No	
Analysis ID	104456	Prep Exp Date		Date Received	
Analysis Date	06/11/08 00:48	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

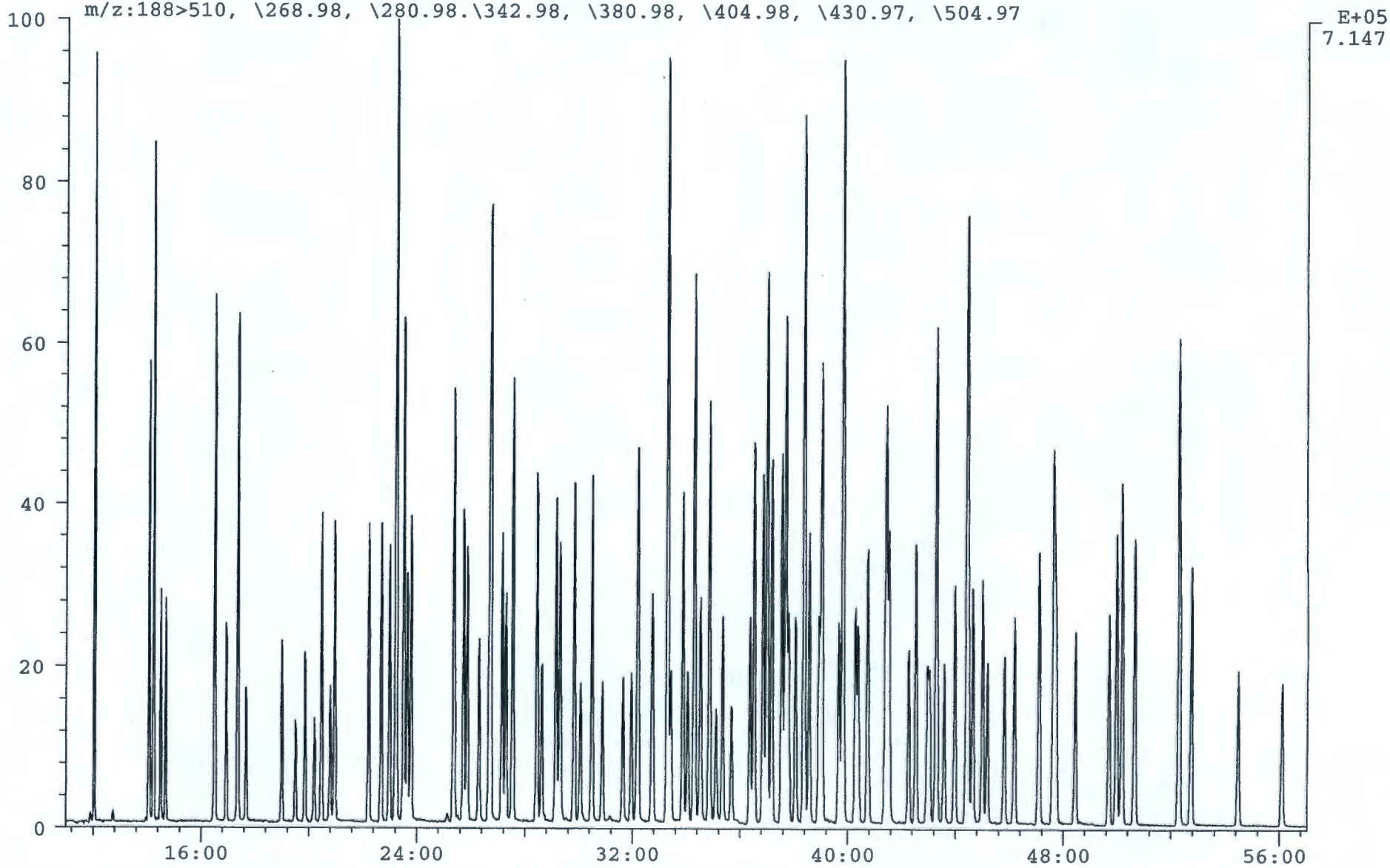
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	PCB 172 (BZ)	45:10	00:00	0	324460	307780	63159	64857	1.05	AVV/AVV	
	PCB 191 (BZ)	46:10	00:00	0	437231	424213	86663	86333	1.03	ABV/ABV	
	PCB 170 (BZ)	47:05	00:00	0	326682	308762	62831	59680	1.06	ABV/AVB	D
	PCB 190 (BZ)	47:35	00:00	0	459426	443088	84659	85029	1.04	ABV/ABV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	115	118	46	47	0.98	/	
	13C12-PCB 188	37:39	00:00	0	436943	407183	85985	83765	1.07	ABV/ABV	
	13C12-PCB 178	40:42	00:00	0	287911	269929	59491	53057	1.07	ABV/ABV	
	13C12-PCB 180	45:48	00:00	0	365937	334329	70655	67387	1.09	ABV/ABV	
	13C12-PCB 170	47:04	00:00	0	298264	288763	58573	58405	1.03	ABV/ABV	
	13C12-PCB 189	50:09	00:00	0	755677	728508	152238	148236	1.04	ABV/ABV	
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	128	135	51	54	0.94	/	
	PCB 200 (BZ)/201 (IUPAC	43:58	00:00	0	468999	526205	93448	102897	0.89	ABV/ABV	
	PCB 204 (BZ)	44:37	00:00	0	465873	521917	91964	100704	0.89	AVV/AVV	
	PCB 199 (BZ)/200 (IUPAC	44:59	00:00	0	469771	521862	95941	100752	0.90	AVV/AVV	
	PCB 198 (BZ)	47:43	00:00	0	340214	390103	67835	75399	0.87	ABV/ABV	
	PCB 196 (BZ)	48:25	00:00	0	355246	387700	72981	79349	0.92	ABV/ABV	
	PCB 195 (BZ)	49:56	00:00	0	589473	647678	111741	123392	0.91	AVV/ABV	D
	PCB 194 (BZ)	52:16	00:00	0	631159	700035	122618	137190	0.90	ABV/ABV	
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	155	143	62	57	1.09 *	/	
	13C12-PCB 202	43:01	00:00	0	298388	323487	57063	63042	0.92	ABV/ABV	
	13C12-PCB 194	52:15	00:00	0	376232	420233	73936	82868	0.90	ABV/ABV	
	13C12-PCB 205	52:43	00:00	0	521963	571165	101225	115092	0.91	ABV/ABV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	133	163	53	65	0.82	/	
	PCB 207 (BZ)	50:37	00:00	0	517913	656035	98976	125371	0.79	ABV/ABV	
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	123	133	49	53	0.92 *	/	
	13C12-PCB 208	49:40	00:00	0	372511	460738	74938	92914	0.81	ABB/ABV	
	13C12-PCB 206	54:27	00:00	0	255616	318905	51535	67473	0.80	AVV/ABB	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	93	85	37	34	1.09 *	/	
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	98	98	39	39	1.00 *	/	
	13C12-PCB 209	56:04	00:00	0	242158	352189	43903	62664	0.69	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

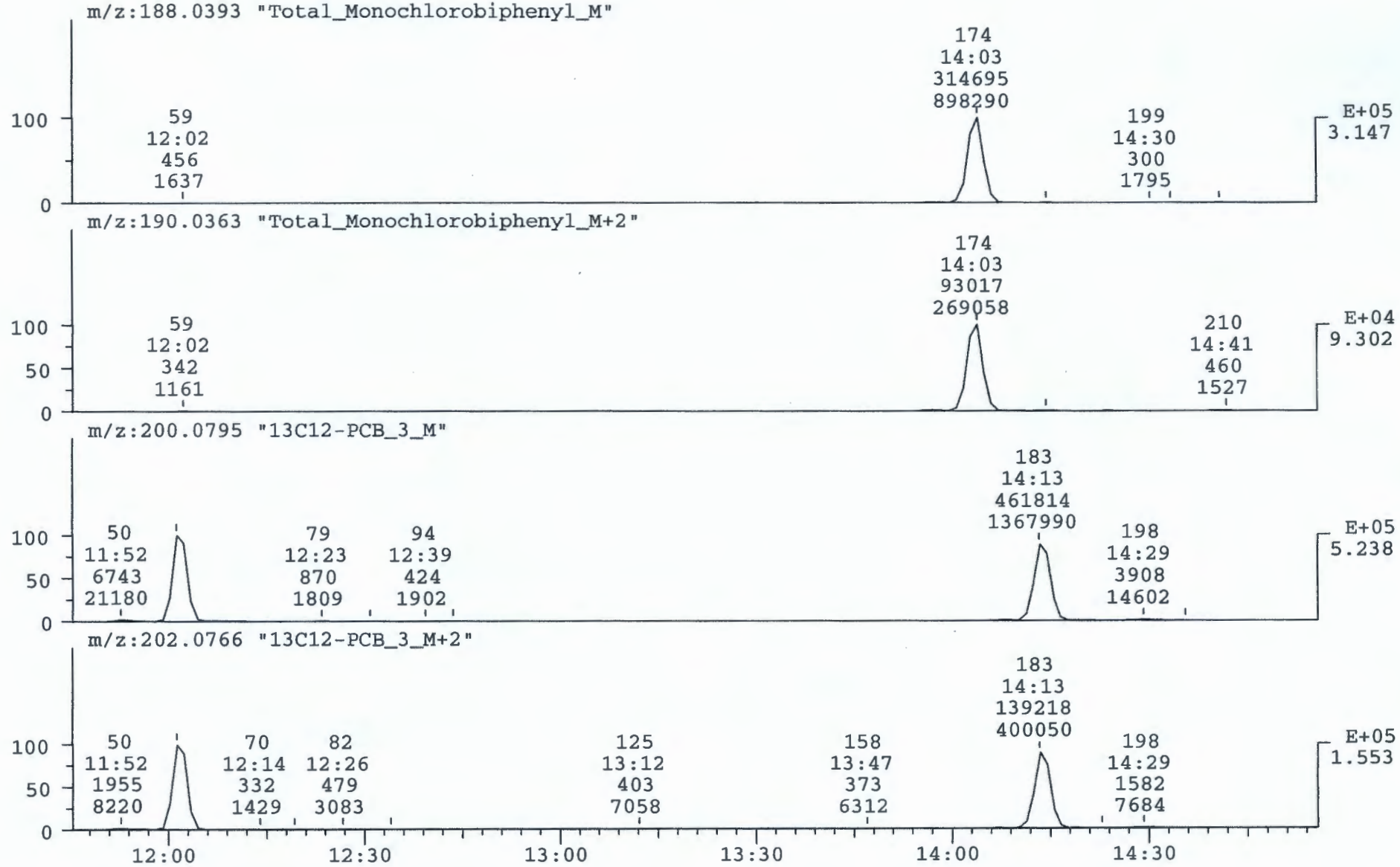
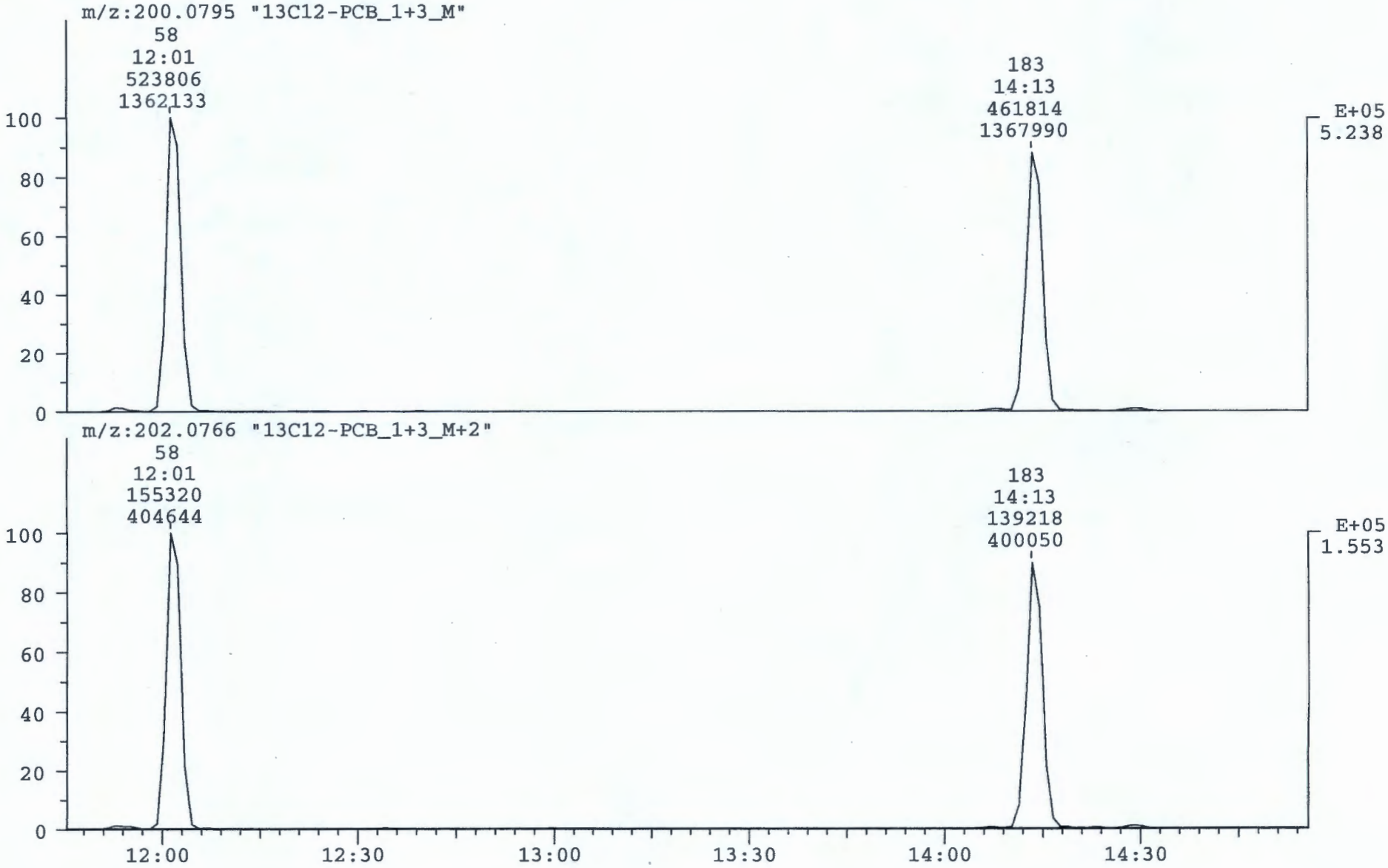
CHRO: a0806m1r3 11-Jun-08 Elapse: 56:10 2553
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 00:48:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 2 > 2601 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

Int DCG 6-11-08
Calc DCG 6-25-08



1998

CHRO: a0806m1r3 11-Jun-08 Elapse: 13:20.6 133
Samp: Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 00:48:42 2601
Comm: Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 2990:75 Mix 1
Oper: DCG Client: TA Knoxville Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 43 > 223 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area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CHRO:  a0806m1r3                                11-Jun-08  Elapse:  13:20.6      133
Samp:  Vial 11 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  00:48:42    2601
Comm:  Inst=m1d/35055-03b Batch=20080610rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  2990:75 Mix 1
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   43 > 223             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```