

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE031519\  
 Data File : BE098967.D  
 Acq On : 15 Mar 2019 10:14  
 Operator : JU/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Mar 15 13:35:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE030619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 15 05:31:33 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.79  | 152  | 788      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.59 | 136  | 3694     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.46 | 164  | 2411     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.22 | 188  | 5909     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.40 | 240  | 6482     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.90 | 264  | 6332     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.40  | 112 | 855   | 0.36 | ng | 0.01 |
| 5) Phenol-d6                | 7.00  | 99  | 1298  | 0.39 | ng | 0.01 |
| 8) Nitrobenzene-d5          | 8.98  | 82  | 1320  | 0.34 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.19 | 152 | 2633  | 0.39 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.97 | 330 | 345   | 0.28 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.09 | 172 | 3909  | 0.39 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.25 | 212 | 32010 | 0.34 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.84 | 244 | 6004  | 0.38 | ng | 0.00 |

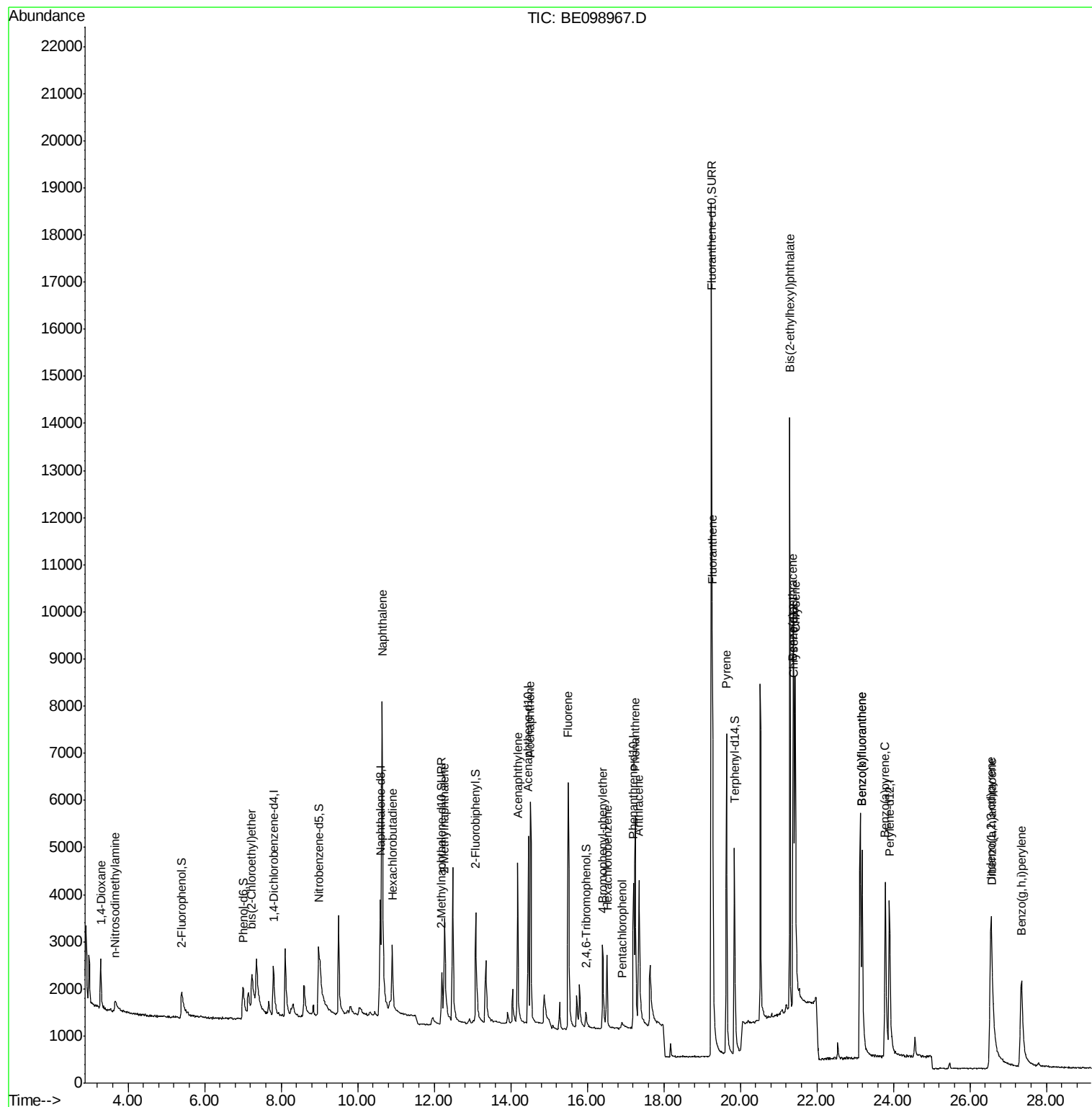
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.29  | 88  | 694   | 0.468  | ng | 94   |
| 3) n-Nitrosodimethylamine      | 3.65  | 42  | 310   | 0.156  | ng | # 14 |
| 6) bis(2-Chloroethyl)ether     | 7.23  | 93  | 811   | 0.316  | ng | 83   |
| 9) Naphthalene                 | 10.64 | 128 | 16780 | 0.397  | ng | 100  |
| 10) Hexachlorobutadiene        | 10.91 | 225 | 1078  | 0.385  | ng | 98   |
| 12) 2-Methylnaphthalene        | 12.27 | 142 | 2502  | 0.365  | ng | 99   |
| 16) Acenaphthylene             | 14.18 | 152 | 4696  | 0.379  | ng | 98   |
| 17) Acenaphthene               | 14.51 | 154 | 2822  | 0.384  | ng | 98   |
| 18) Fluorene                   | 15.50 | 166 | 3912  | 0.369  | ng | 99   |
| 20) 4-Bromophenyl-phenylether  | 16.41 | 248 | 1371  | 0.428  | ng | # 80 |
| 21) Hexachlorobenzene          | 16.52 | 284 | 1509  | 0.396  | ng | 97   |
| 22) Pentachlorophenol          | 16.91 | 266 | 164   | 0.391  | ng | 97   |
| 23) Phenanthrene               | 17.26 | 178 | 6241  | 0.372  | ng | 97   |
| 24) Anthracene                 | 17.35 | 178 | 4670  | 0.325  | ng | 98   |
| 26) Fluoranthene               | 19.28 | 202 | 8138  | 0.343  | ng | 99   |
| 28) Pyrene                     | 19.64 | 202 | 8207  | 0.414  | ng | 99   |
| 30) Benzo(a)anthracene         | 21.38 | 228 | 7393  | 0.365  | ng | 98   |
| 31) Chrysene                   | 21.44 | 228 | 7926  | 0.366  | ng | 99   |
| 32) Bis(2-ethylhexyl)phthalate | 21.29 | 149 | 13777 | 0.320  | ng | 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.54 | 276 | 7886  | 0.345  | ng | 97   |
| 35) Benzo(b)fluoranthene       | 23.18 | 252 | 8557  | 0.411  | ng | 98   |
| 36) Benzo(k)fluoranthene       | 23.18 | 252 | 9090  | 0.417  | ng | 100  |
| 37) Benzo(a)pyrene             | 23.79 | 252 | 7622  | 0.382  | ng | # 87 |
| 38) Dibenzo(a,h)anthracene     | 26.57 | 278 | 5390  | 0.285  | ng | 97   |
| 39) Benzo(g,h,i)perylene       | 27.35 | 276 | 6794  | 0.344  | ng | 96   |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_E  
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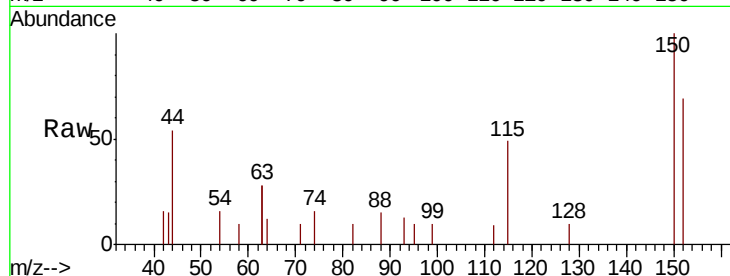


#1

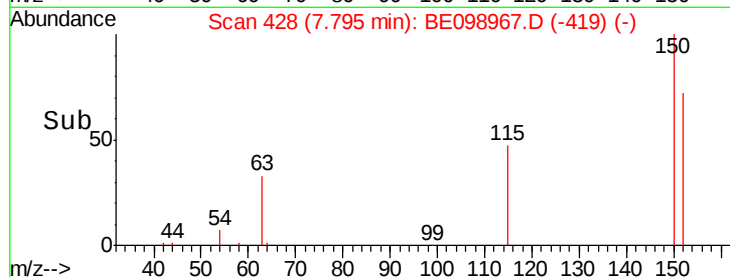
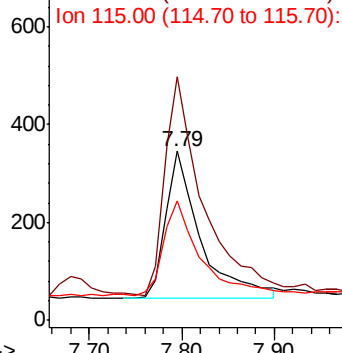
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.79 min Scan# 428  
Delta R.T. 0.00 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 788  
Ion Ratio Lower Upper  
152 100  
150 143.9 122.5 183.7  
115 70.8 57.4 86.2



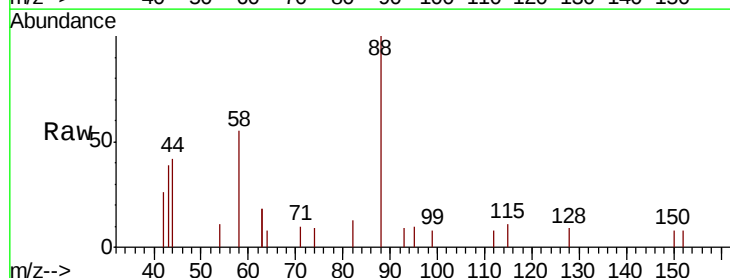
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



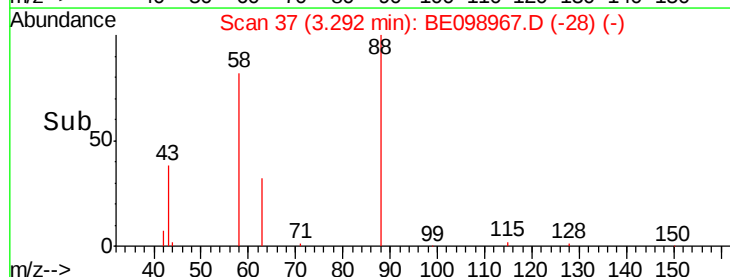
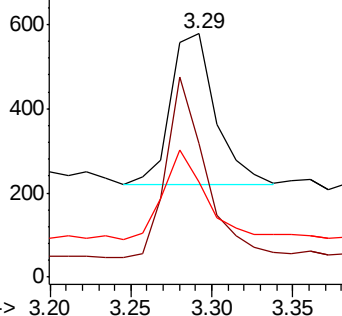
#2

1,4-Dioxane  
Concen: 0.468 ng  
RT: 3.29 min Scan# 37  
Delta R.T. 0.00 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

Tgt Ion: 88 Resp: 694  
Ion Ratio Lower Upper  
88 100  
58 102.6 75.8 113.6  
43 53.5 41.8 62.8



Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0



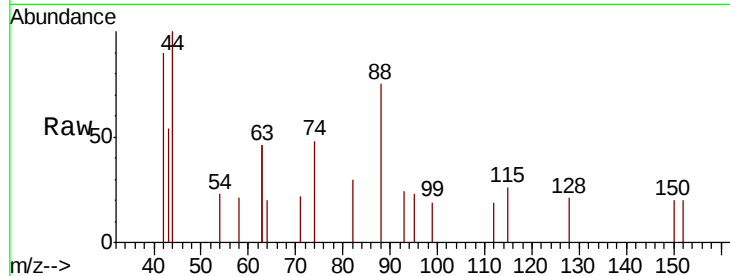


#3

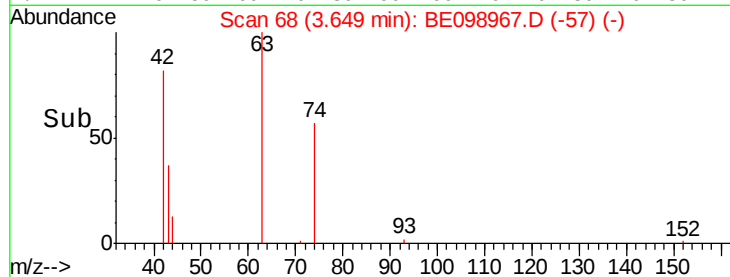
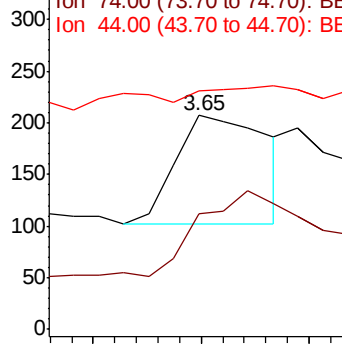
n-Nitrosodimethylamine  
 Concen: 0.156 ng  
 RT: 3.65 min Scan# 68  
 Delta R.T. 0.03 min  
 Lab File: BE098967.D  
 Acq: 15 Mar 2019 10:14

Instrument :  
 BNA\_E  
 ClientSampled :

Tot Ion: 42 Resp: 310  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 57.0 85.4#  
 44 0.0 0.0 0.0



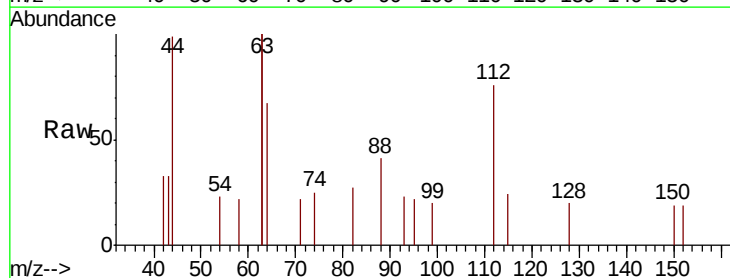
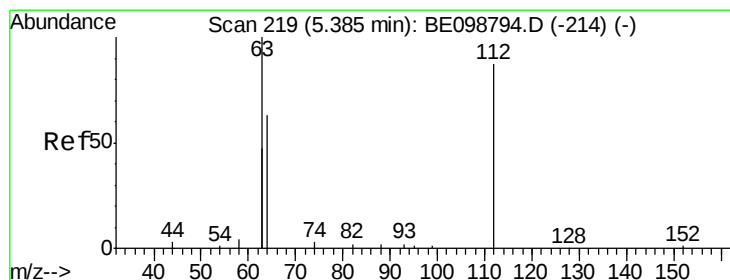
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



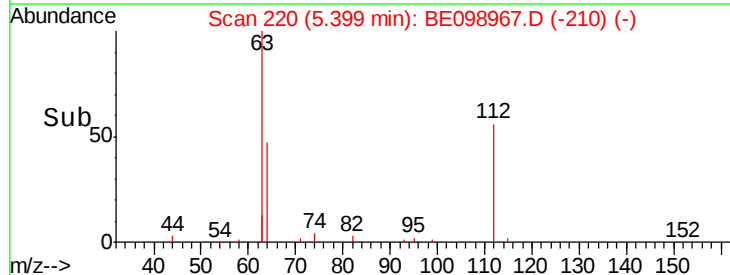
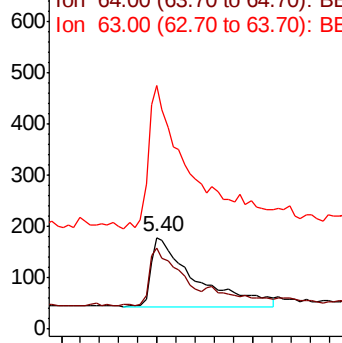
#4

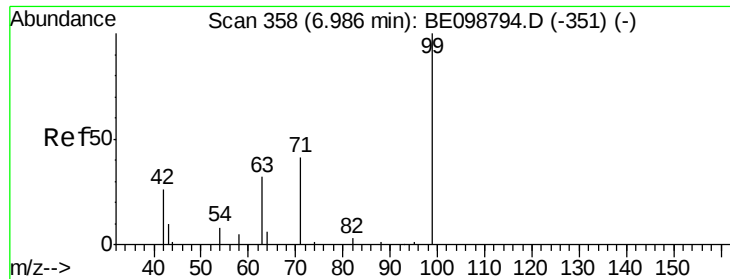
2-Fluorophenol  
 Concen: 0.363 ng  
 RT: 5.40 min Scan# 220  
 Delta R.T. 0.01 min  
 Lab File: BE098967.D  
 Acq: 15 Mar 2019 10:14

Tgt Ion: 112 Resp: 855  
 Ion Ratio Lower Upper  
 112 100  
 64 57.9 57.9 86.9#  
 63 176.4 158.3 237.5



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BE0  
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.390 ng

RT: 7.00 min Scan# 359

Delta R.T. 0.01 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

Instrument :

BNA\_E

ClientSampled :

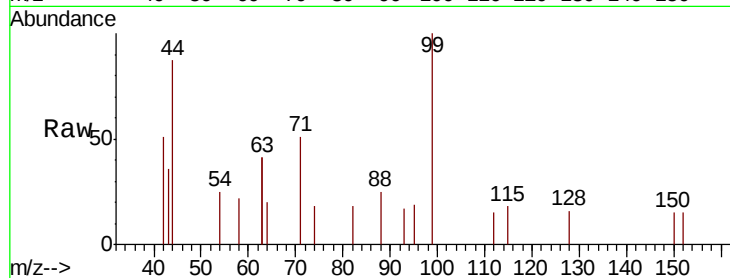
Tot Ion: 99 Resp: 1298

Ion Ratio Lower Upper

99 100

42 30.7 24.2 36.2

71 37.2 35.7 53.5



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

7.00

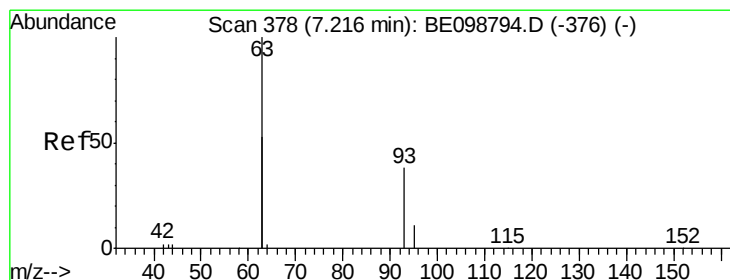
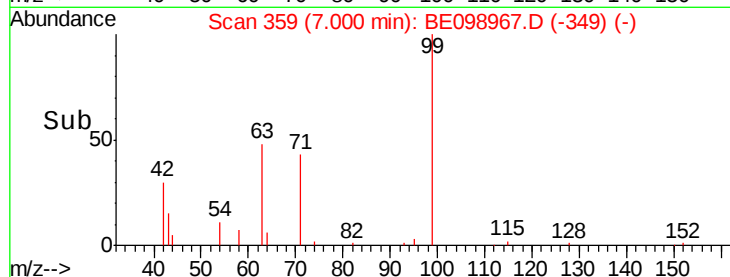
300

200

100

0

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.316 ng

RT: 7.23 min Scan# 379

Delta R.T. 0.01 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

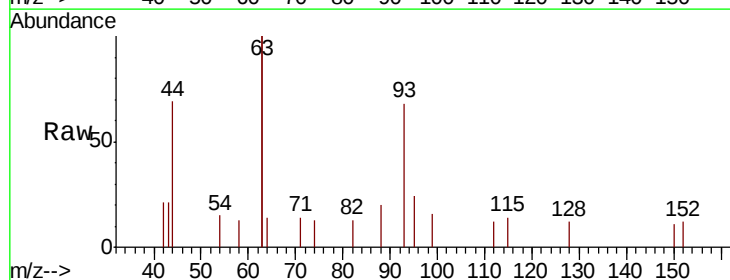
Tgt Ion: 93 Resp: 811

Ion Ratio Lower Upper

93 100

63 274.0 247.5 371.3

95 31.7 21.8 32.8



Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0

1200

1000

800

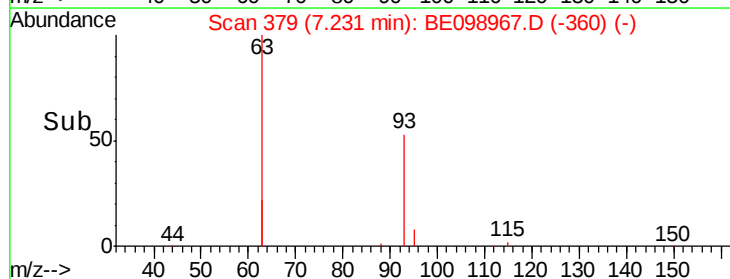
600

400

200

0

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.59 min Scan# 648

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 3694

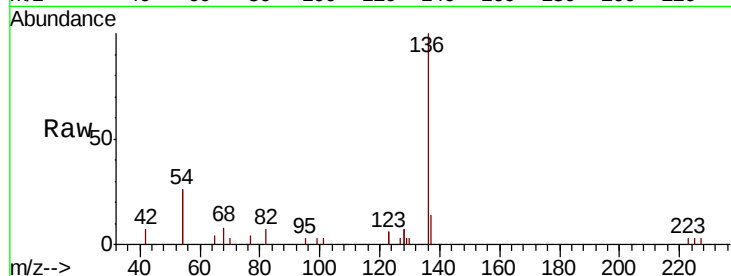
Ion Ratio Lower Upper

136 100

137 14.2 11.4 17.0

54 51.3 39.3 58.9

68 8.4 6.7 10.1

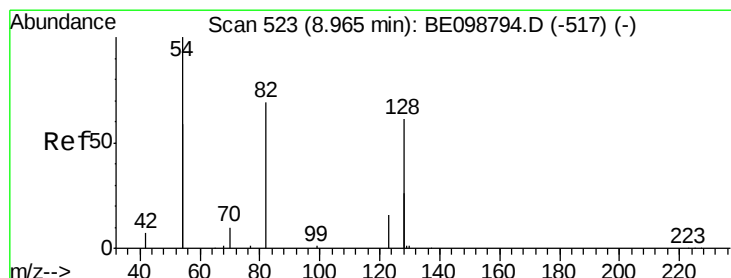
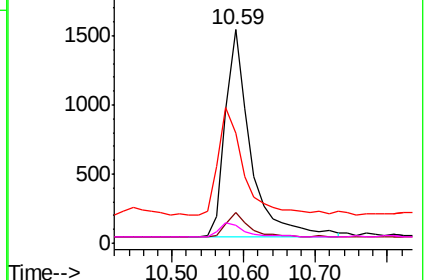
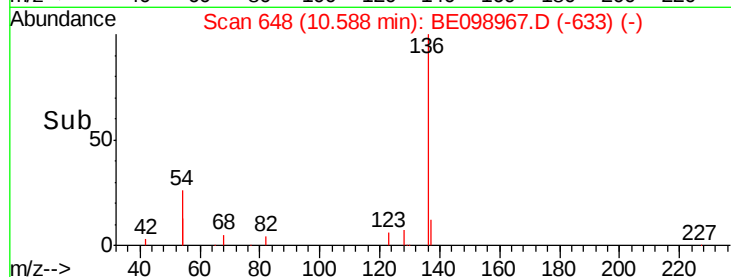


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.341 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.01 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

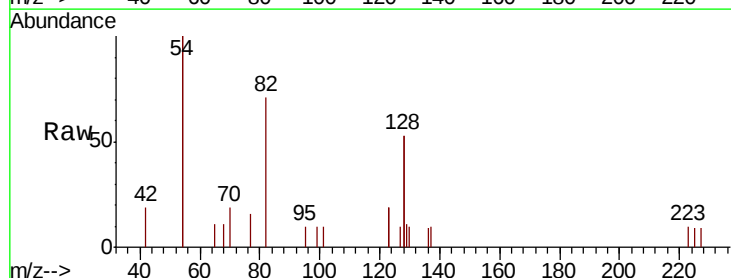
Tgt Ion: 82 Resp: 1320

Ion Ratio Lower Upper

82 100

128 149.3 123.8 185.8

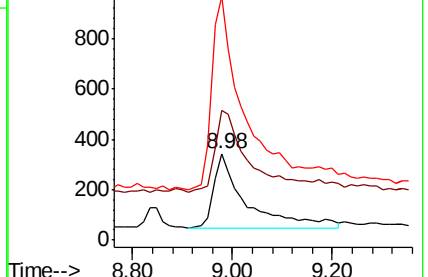
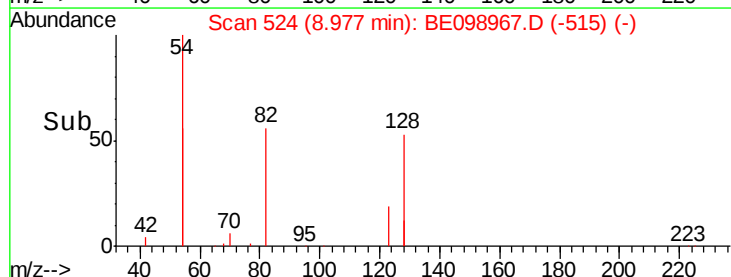
54 281.6 203.4 305.2



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.397 ng

RT: 10.64 min Scan# 652

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

Instrument :

BNA\_E

ClientSampleId :

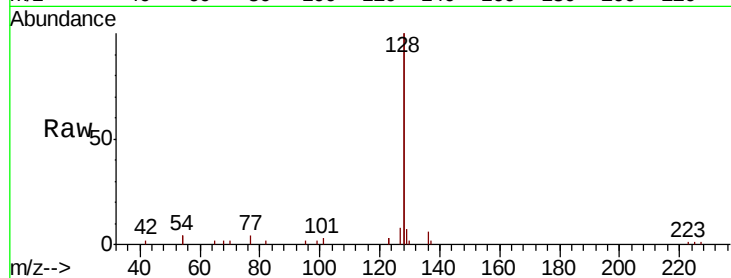
Tot Ion:128 Resp: 16780

Ion Ratio Lower Upper

128 100

129 3.4 2.6 4.0

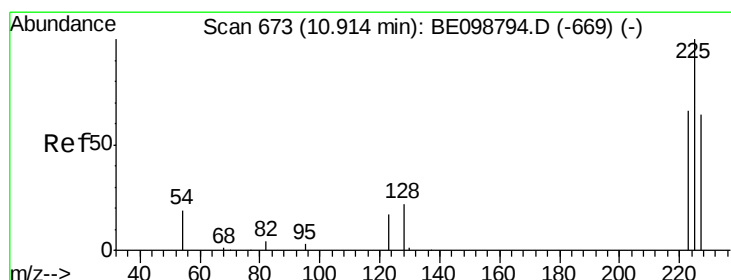
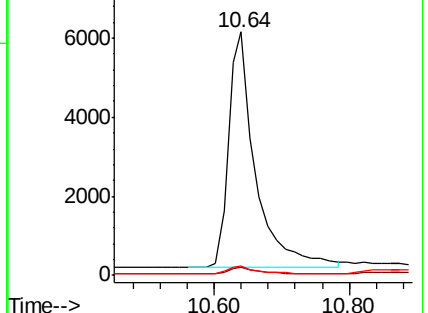
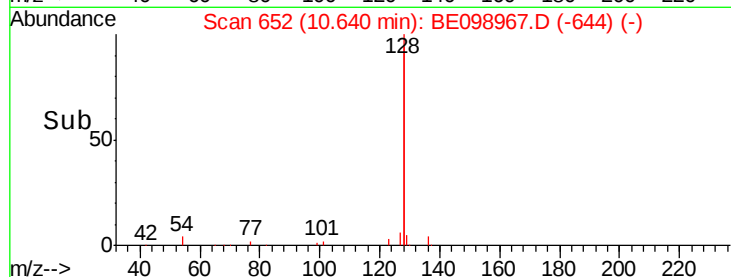
127 3.8 3.1 4.7



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.385 ng

RT: 10.91 min Scan# 673

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

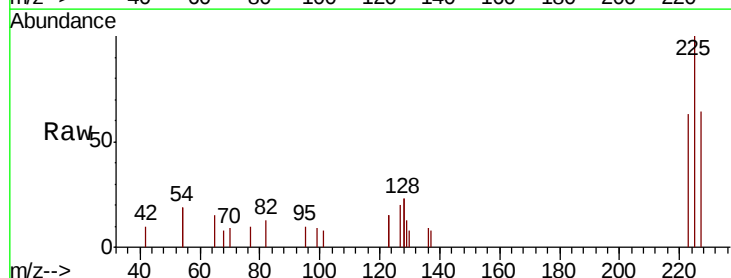
Tgt Ion:225 Resp: 1078

Ion Ratio Lower Upper

225 100

223 62.2 51.1 76.7

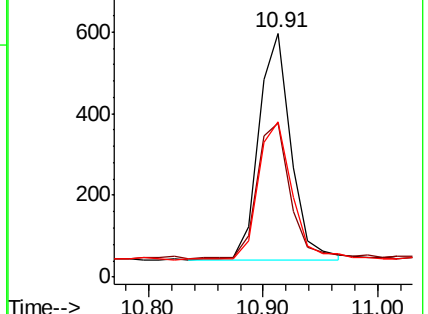
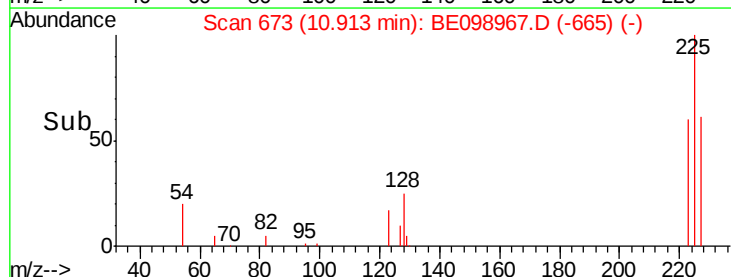
227 62.6 51.6 77.4



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.386 ng

RT: 12.19 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

Instrument :

BNA\_E

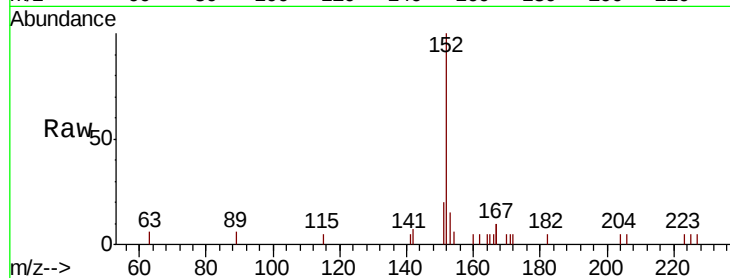
ClientSampleId :

Tot Ion:152 Resp: 2633

Ion Ratio Lower Upper

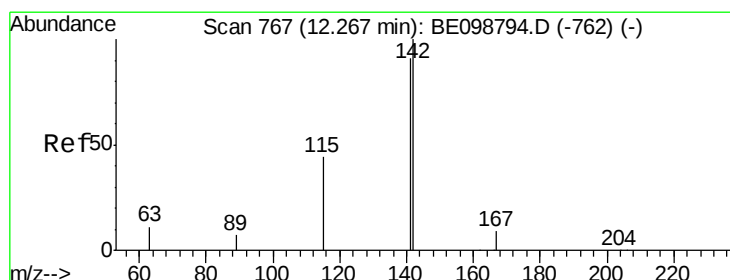
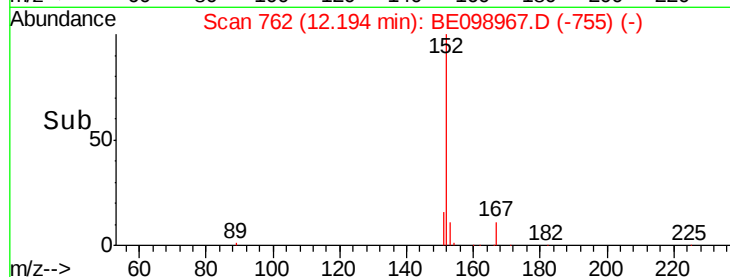
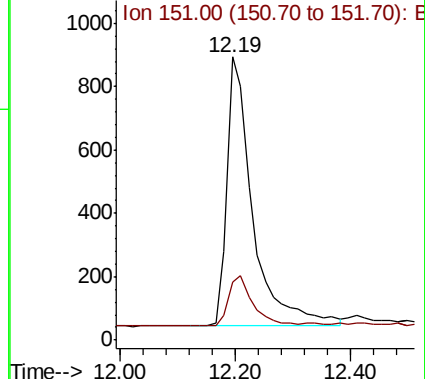
152 100

151 18.3 16.5 24.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.365 ng

RT: 12.27 min Scan# 767

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

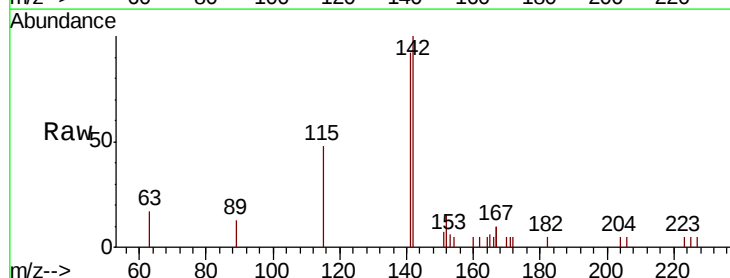
Tgt Ion:142 Resp: 2502

Ion Ratio Lower Upper

142 100

141 91.6 72.6 108.8

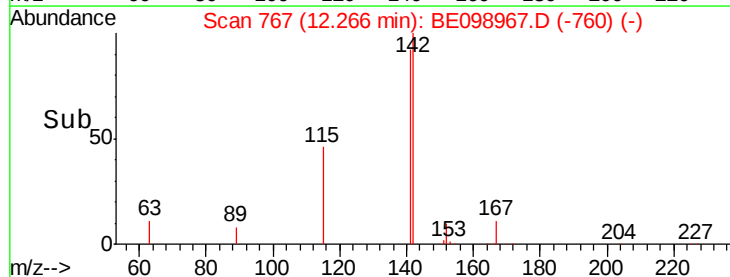
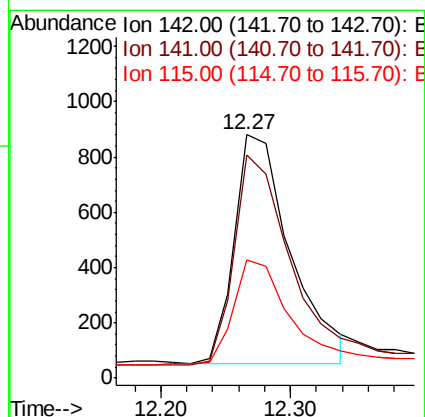
115 48.4 37.4 56.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

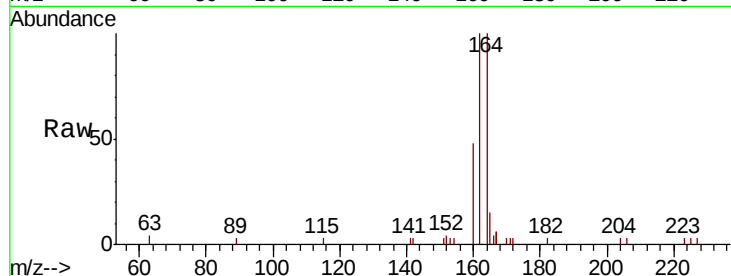




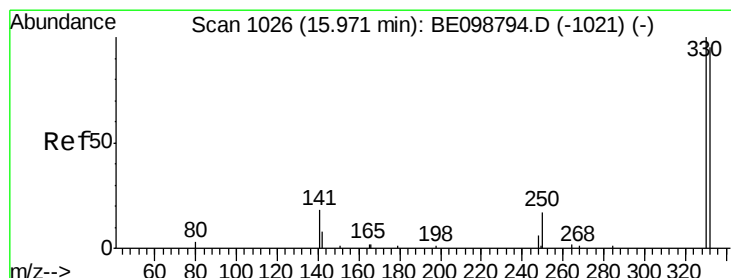
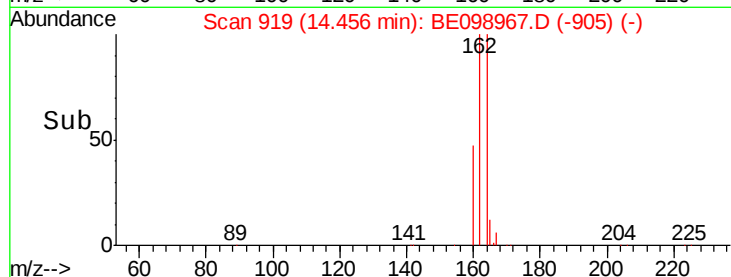
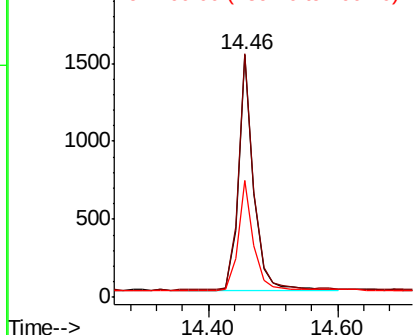
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.46 min Scan# 919  
 Delta R.T. -0.00 min  
 Lab File: BE098967.D  
 Acq: 15 Mar 2019 10:14

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:164 Resp: 2411  
 Ion Ratio Lower Upper  
 164 100  
 162 100.3 80.2 120.2  
 160 48.2 37.8 56.8

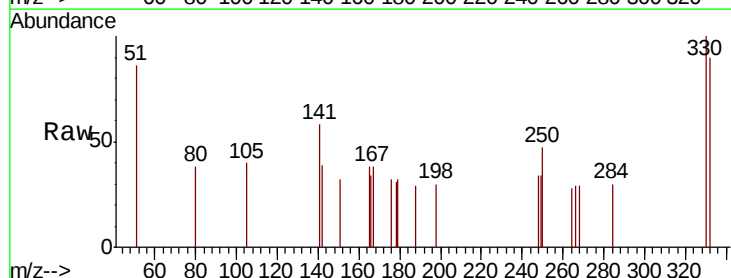


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

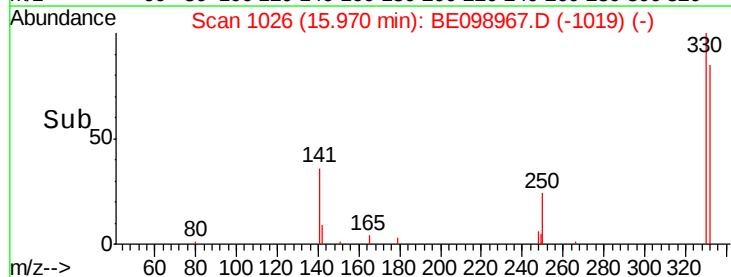
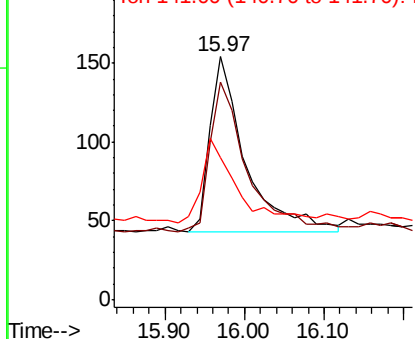


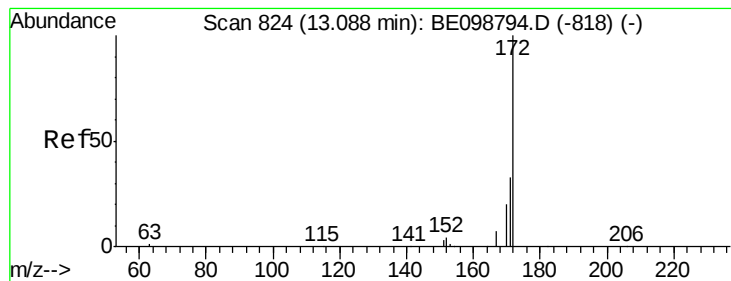
#14  
 2,4,6-Tribromophenol  
 Concen: 0.283 ng  
 RT: 15.97 min Scan# 1026  
 Delta R.T. -0.00 min  
 Lab File: BE098967.D  
 Acq: 15 Mar 2019 10:14

Tgt Ion:330 Resp: 345  
 Ion Ratio Lower Upper  
 330 100  
 332 90.7 77.6 116.4  
 141 46.4 31.0 46.4



Abundance Ion 330.00 (329.70 to 330.70): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

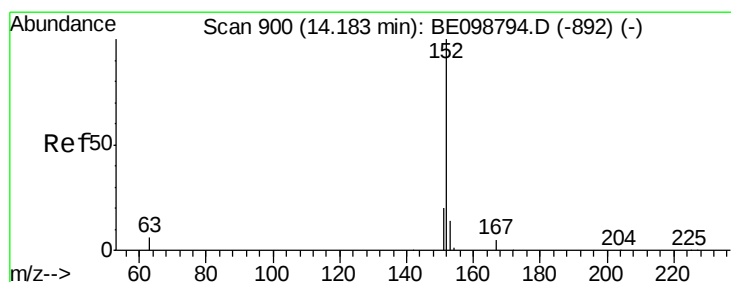
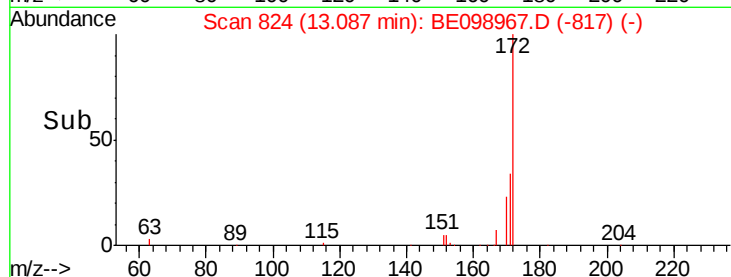
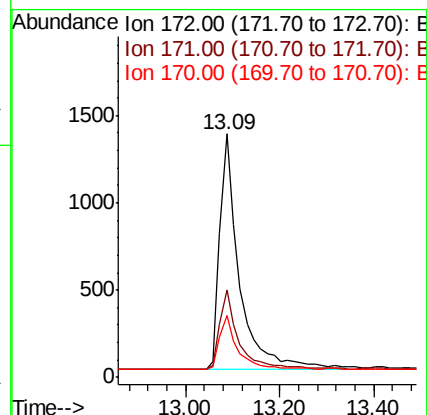
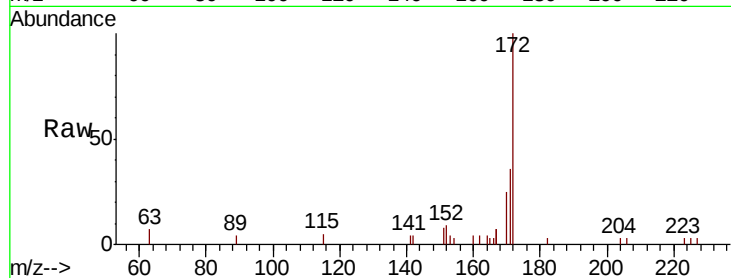




#15  
2-Fluorobiphenyl  
Concen: 0.392 ng  
RT: 13.09 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

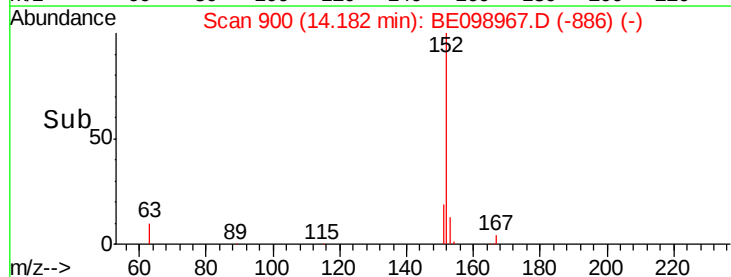
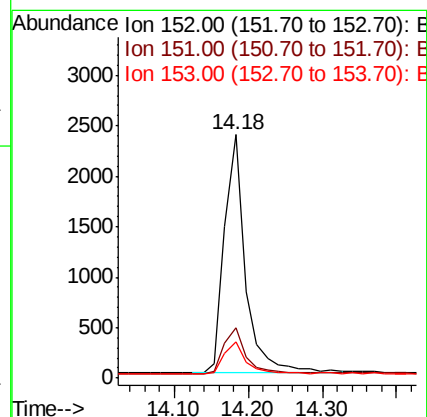
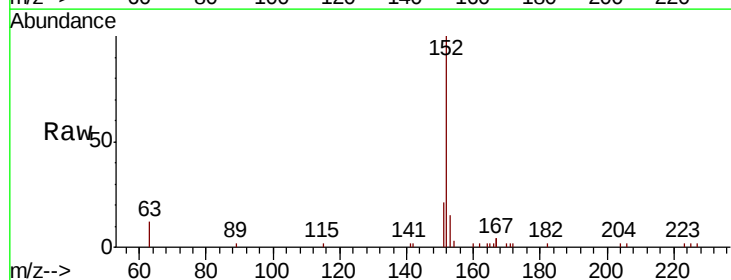
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 3909  
Ion Ratio Lower Upper  
172 100  
171 36.1 28.0 42.0  
170 25.2 17.7 26.5



#16  
Acenaphthylene  
Concen: 0.379 ng  
RT: 14.18 min Scan# 900  
Delta R.T. -0.00 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

Tgt Ion:152 Resp: 4696  
Ion Ratio Lower Upper  
152 100  
151 20.4 17.0 25.6  
153 13.5 11.2 16.8

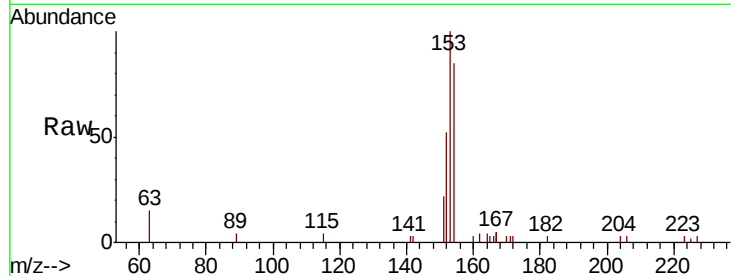




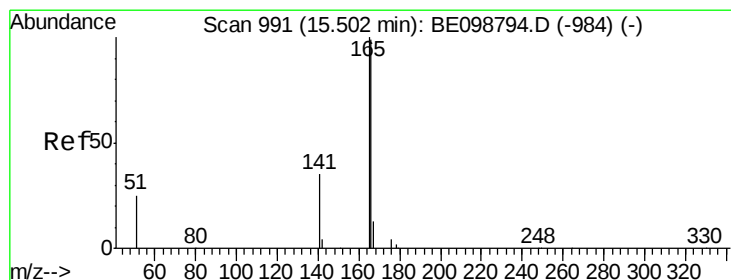
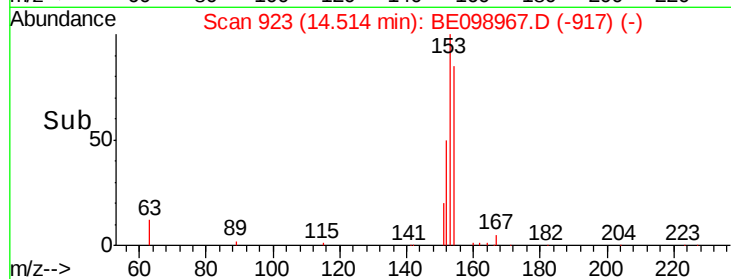
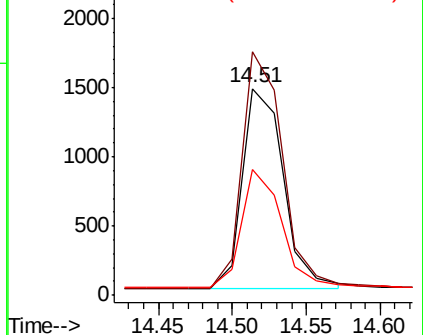
#17  
Acenaphthene  
Concen: 0.384 ng  
RT: 14.51 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:154 Resp: 2822  
Ion Ratio Lower Upper  
154 100  
153 116.1 94.2 141.4  
152 57.4 45.0 67.4

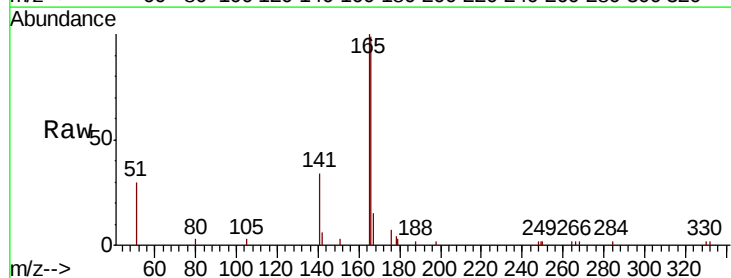


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

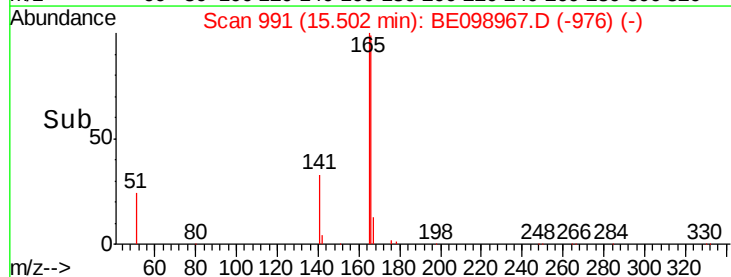
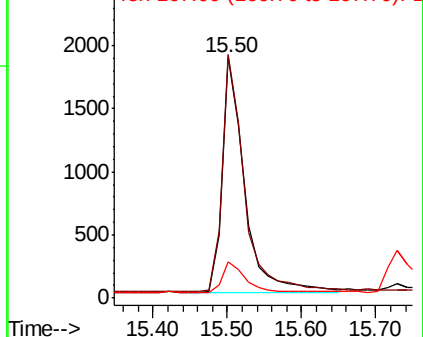


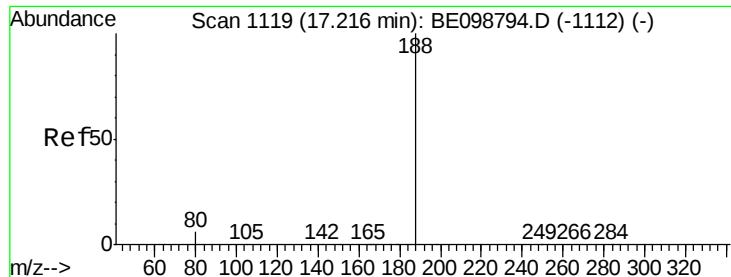
#18  
Fluorene  
Concen: 0.369 ng  
RT: 15.50 min Scan# 991  
Delta R.T. -0.00 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

Tgt Ion:166 Resp: 3912  
Ion Ratio Lower Upper  
166 100  
165 100.1 79.3 118.9  
167 13.5 10.5 15.7



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.22 min Scan# 1119

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

Instrument :

BNA\_E

ClientSampleId :

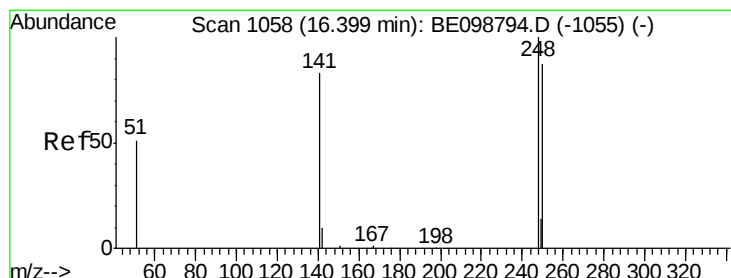
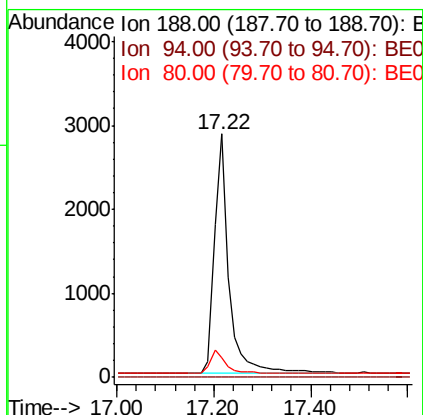
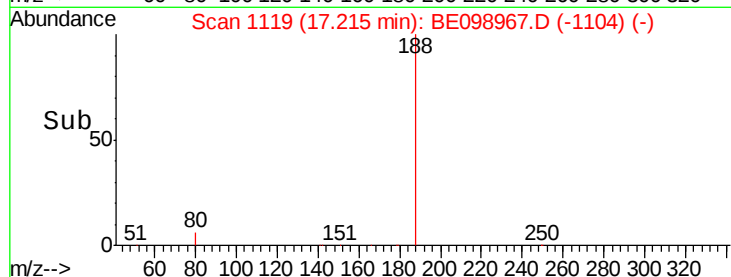
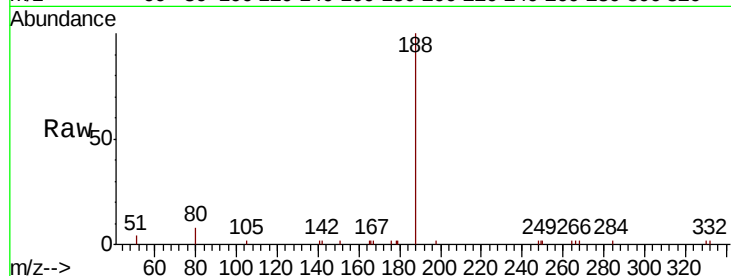
Tot Ion:188 Resp: 5909

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.1 6.3 9.5



#20

4-Bromophenyl-phenylether

Concen: 0.428 ng

RT: 16.41 min Scan# 1059

Delta R.T. 0.01 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

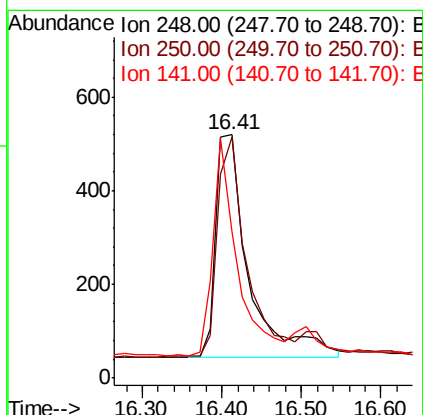
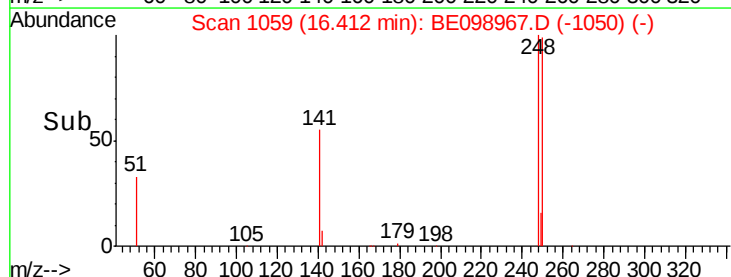
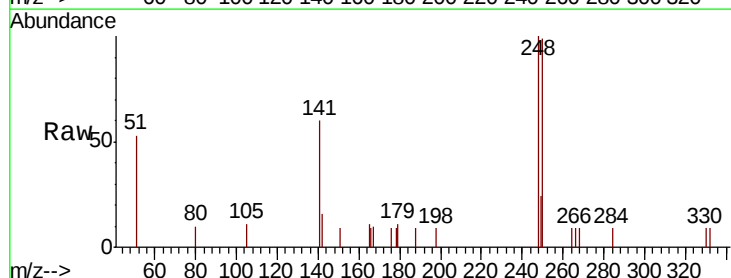
Tgt Ion:248 Resp: 1371

Ion Ratio Lower Upper

248 100

250 99.2 70.6 105.8

141 60.0 68.6 102.8#

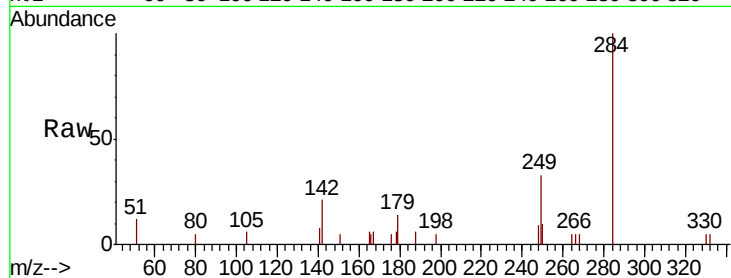




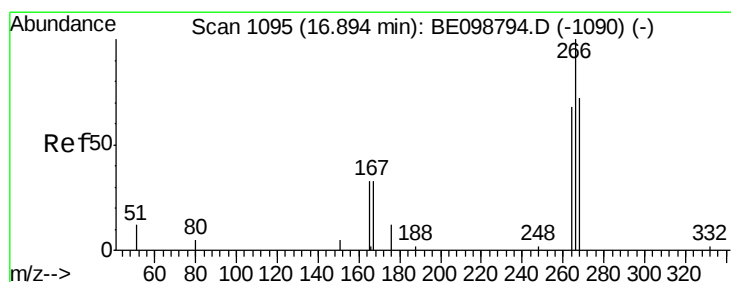
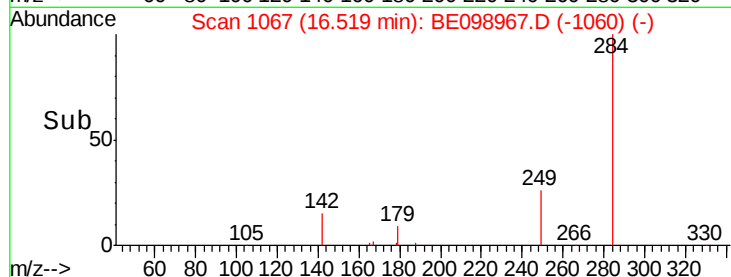
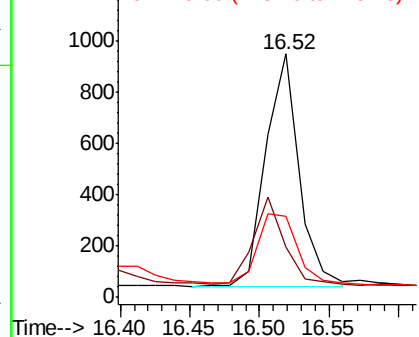
#21  
Hexachlorobenzene  
Concen: 0.396 ng  
RT: 16.52 min Scan# 1067  
Delta R.T. -0.00 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

Instrument :  
BNA\_E  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 34.8  | 28.7  | 43.1  |
| 249     | 34.3  | 29.6  | 44.4  |

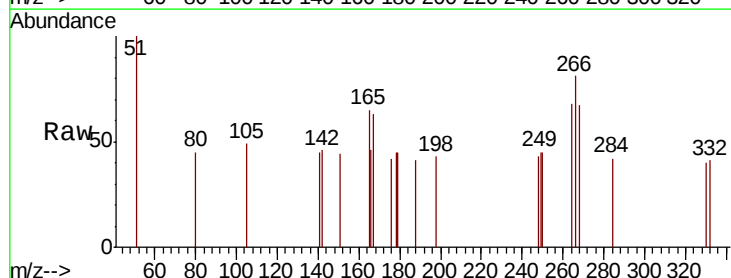


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

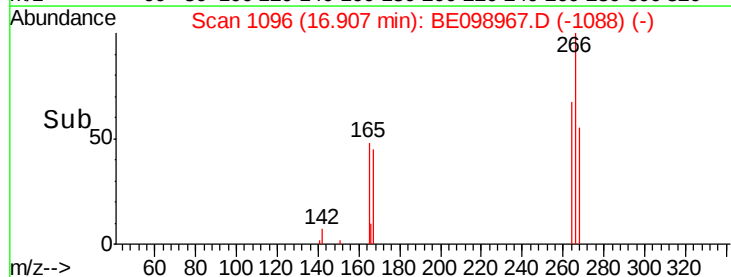
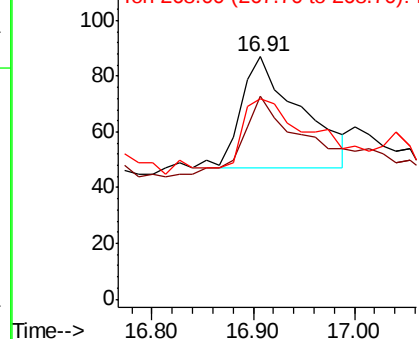


#22  
Pentachlorophenol  
Concen: 0.391 ng  
RT: 16.91 min Scan# 1096  
Delta R.T. 0.01 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 83.9  | 66.6  | 100.0 |
| 268     | 82.8  | 69.8  | 104.8 |



Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.372 ng

RT: 17.26 min Scan# 1122

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

Instrument :

BNA\_E

ClientSampleId :

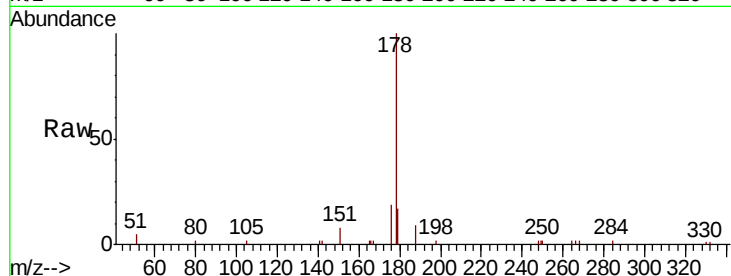
Tot Ion:178 Resp: 6241

Ion Ratio Lower Upper

178 100

176 18.1 16.0 24.0

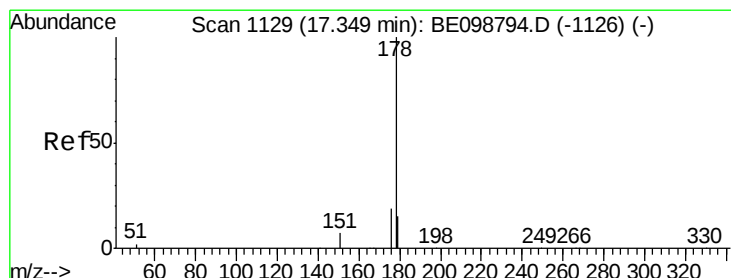
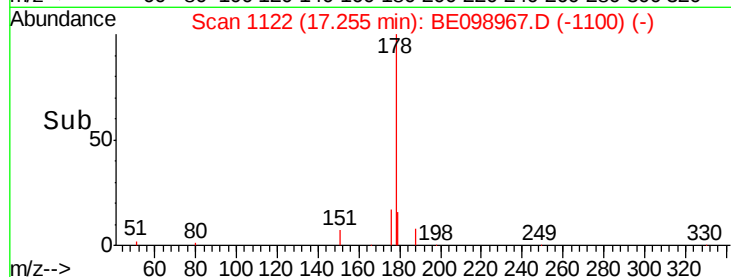
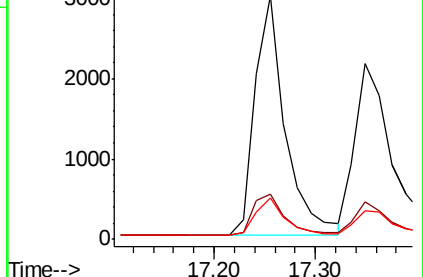
179 15.6 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.325 ng

RT: 17.35 min Scan# 1129

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

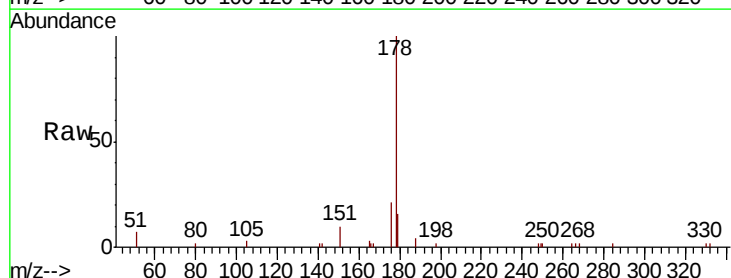
Tgt Ion:178 Resp: 4670

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.0

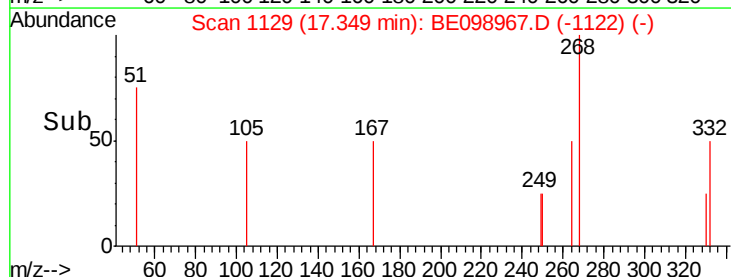
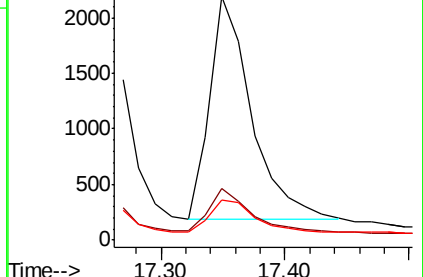
179 15.9 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

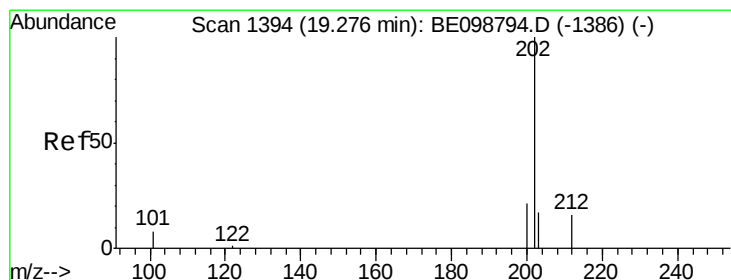
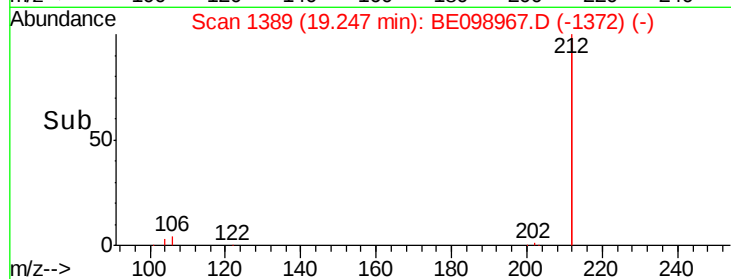
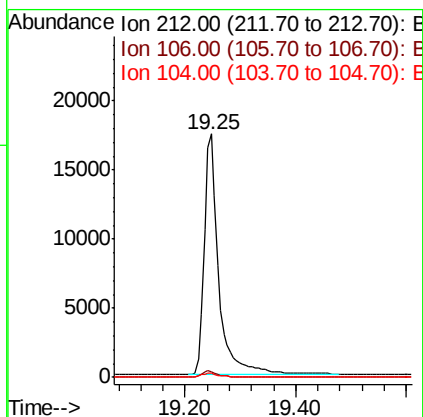
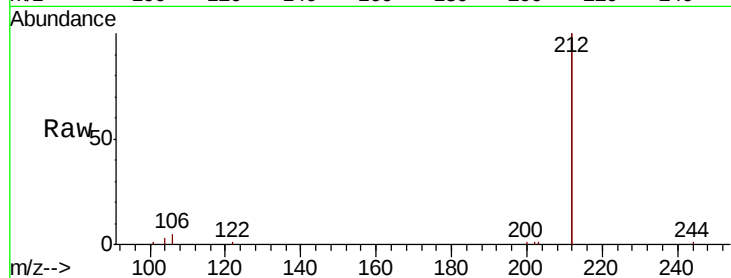




#25  
 Fluoranthene-d10  
 Concen: 0.339 ng  
 RT: 19.25 min Scan# 1389  
 Delta R.T. -0.00 min  
 Lab File: BE098967.D  
 Acq: 15 Mar 2019 10:14

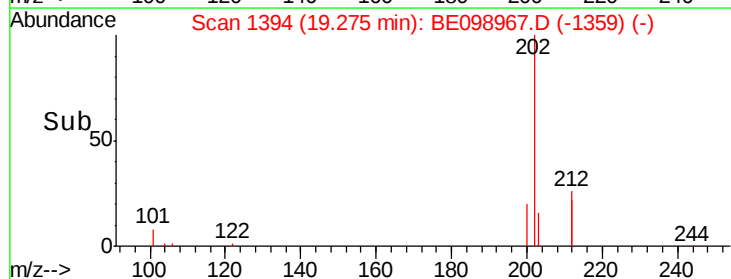
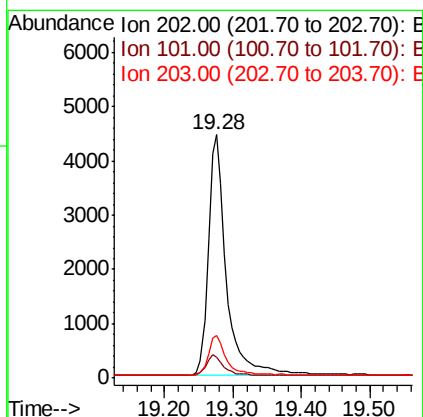
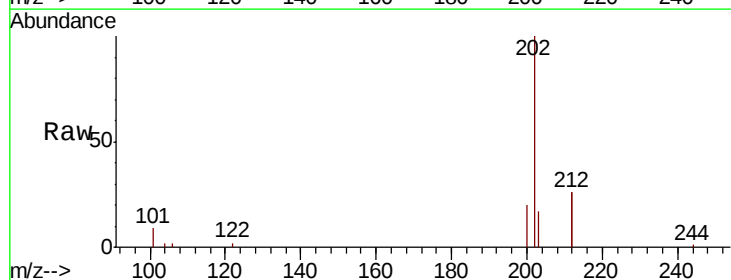
Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:212 Resp: 32010  
 Ion Ratio Lower Upper  
 212 100  
 106 2.3 1.8 2.8  
 104 1.4 1.0 1.6



#26  
 Fluoranthene  
 Concen: 0.343 ng  
 RT: 19.28 min Scan# 1394  
 Delta R.T. -0.00 min  
 Lab File: BE098967.D  
 Acq: 15 Mar 2019 10:14

Tgt Ion:202 Resp: 8138  
 Ion Ratio Lower Upper  
 202 100  
 101 8.8 7.3 10.9  
 203 16.5 13.4 20.2

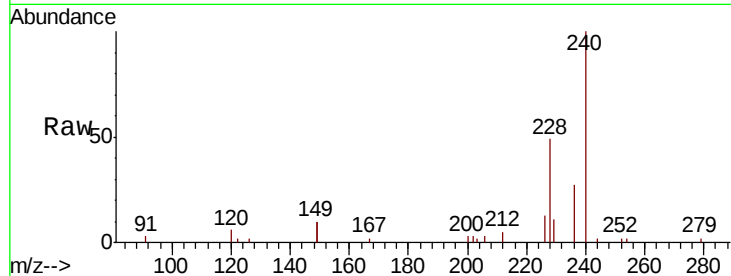




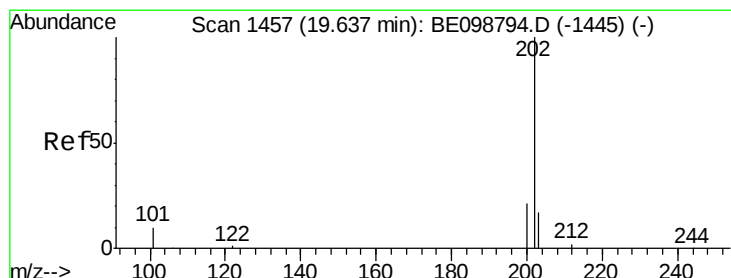
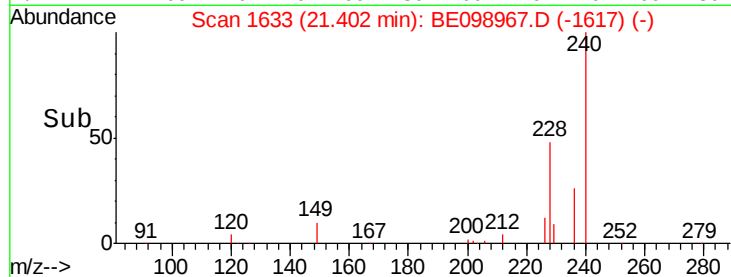
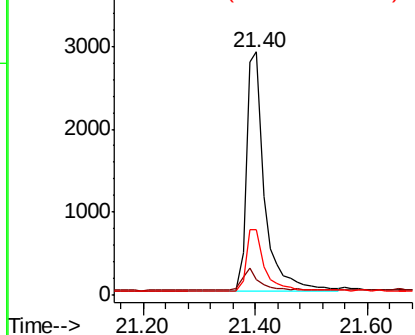
#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.40 min Scan# 1633  
 Delta R.T. -0.00 min  
 Lab File: BE098967.D  
 Acq: 15 Mar 2019 10:14

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:240 Resp: 6482  
 Ion Ratio Lower Upper  
 240 100  
 120 6.4 5.0 7.4  
 236 27.1 22.7 34.1

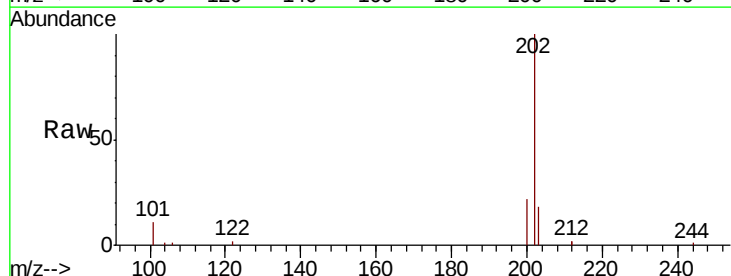


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

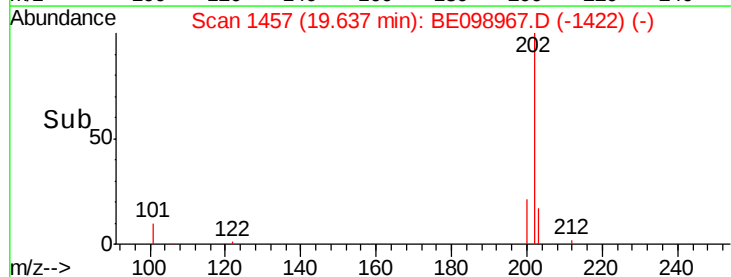
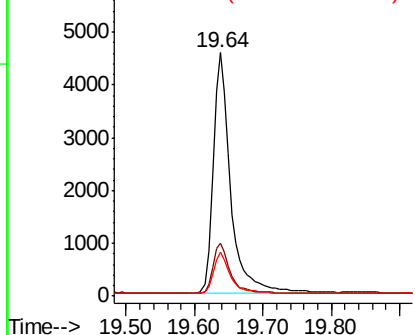


#28  
 Pyrene  
 Concen: 0.414 ng  
 RT: 19.64 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: BE098967.D  
 Acq: 15 Mar 2019 10:14

Tgt Ion:202 Resp: 8207  
 Ion Ratio Lower Upper  
 202 100  
 200 21.2 17.0 25.6  
 203 16.9 14.2 21.2



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.381 ng

RT: 19.84 min Scan# 1493

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

Instrument :

BNA\_E

ClientSampleId :

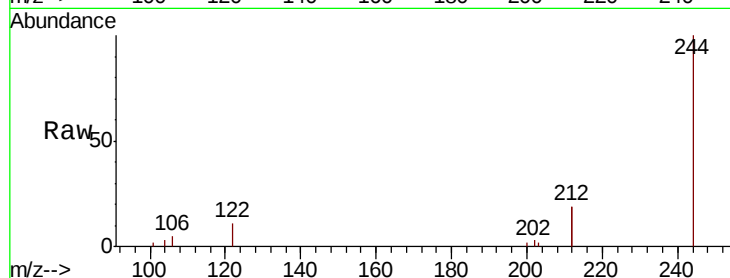
Tot Ion:244 Resp: 6004

Ion Ratio Lower Upper

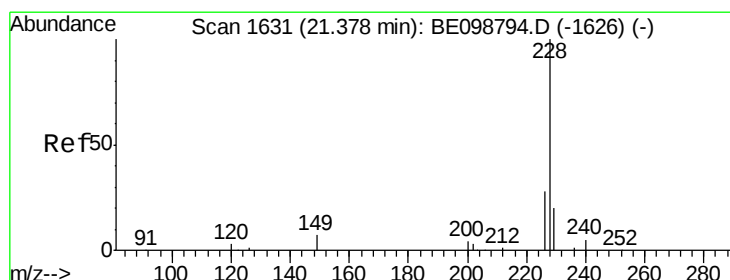
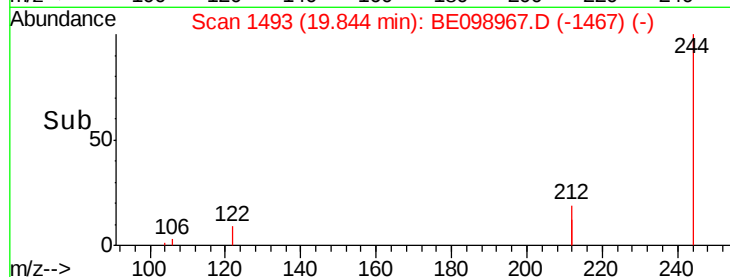
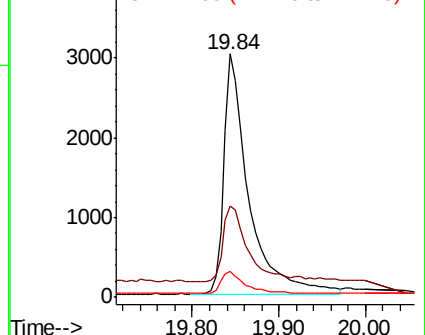
244 100

212 37.4 29.4 44.2

122 10.7 7.1 10.7



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.365 ng

RT: 21.38 min Scan# 1631

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

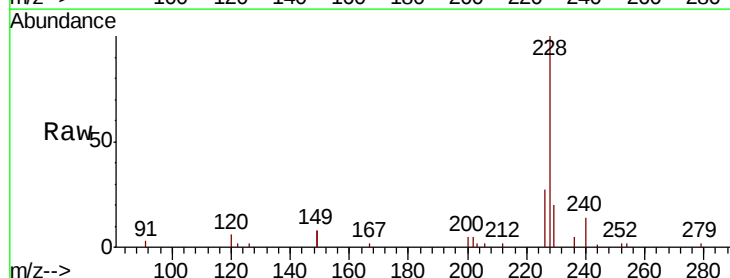
Tgt Ion:228 Resp: 7393

Ion Ratio Lower Upper

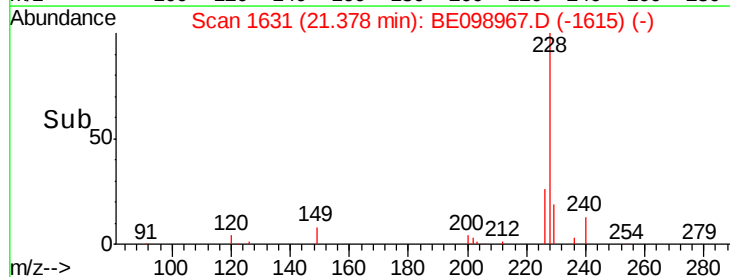
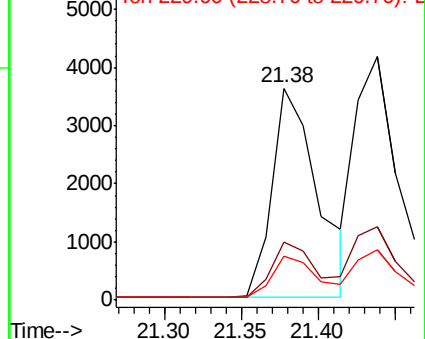
228 100

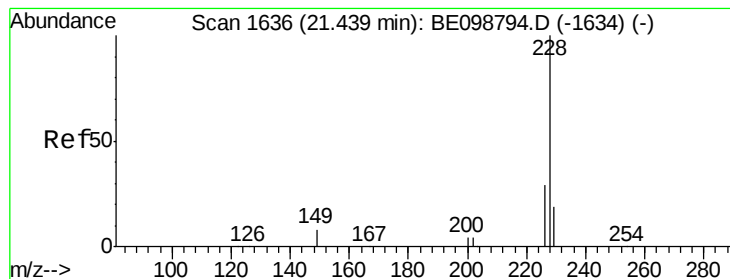
226 27.2 23.0 34.4

229 20.5 16.5 24.7



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.366 ng

RT: 21.44 min Scan# 1636

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

Instrument :

BNA\_E

ClientSampleId :

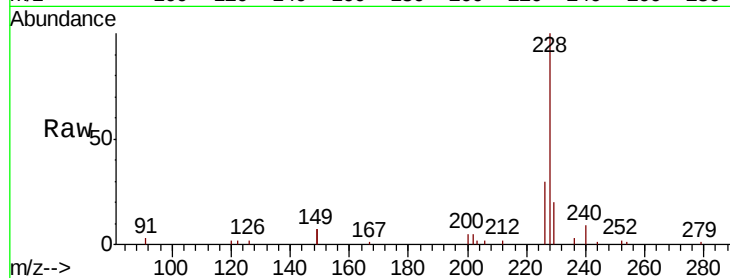
Tot Ion:228 Resp: 7926

Ion Ratio Lower Upper

228 100

226 30.1 23.7 35.5

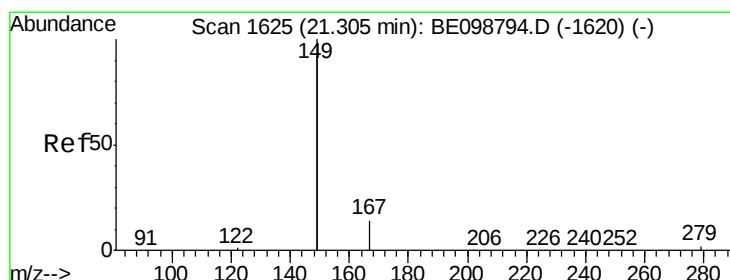
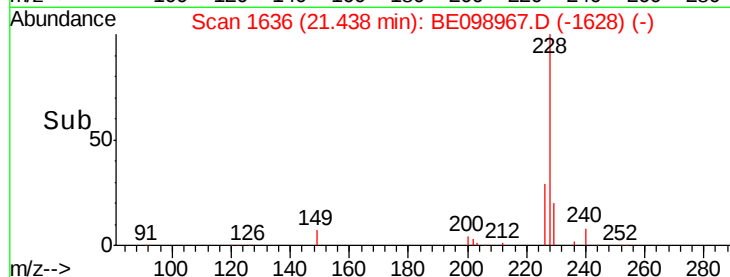
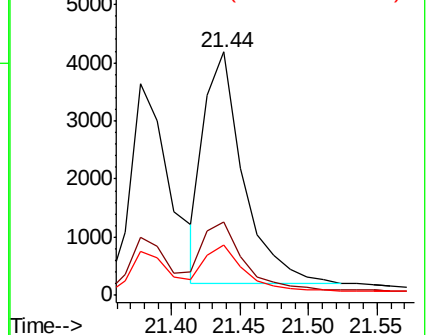
229 20.5 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.320 ng

RT: 21.29 min Scan# 1624

Delta R.T. -0.01 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

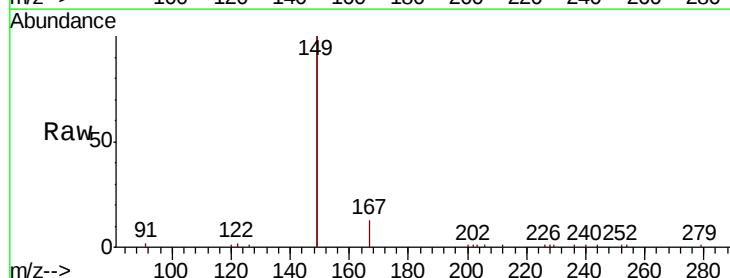
Tgt Ion:149 Resp: 13777

Ion Ratio Lower Upper

149 100

167 7.0 5.4 8.0

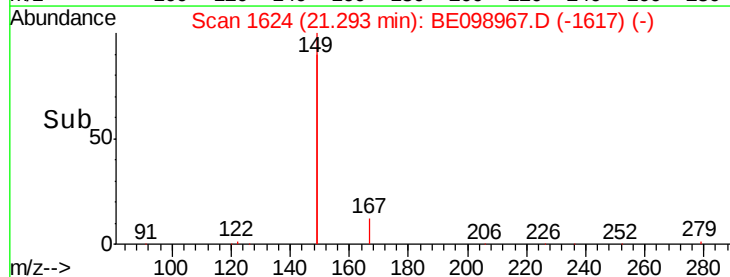
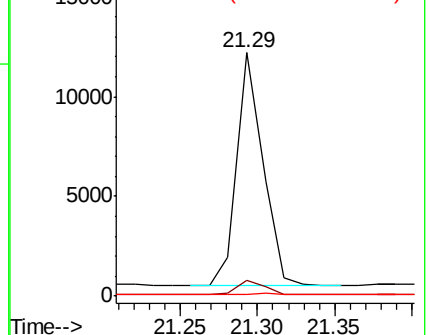
279 1.1 1.0 1.4



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

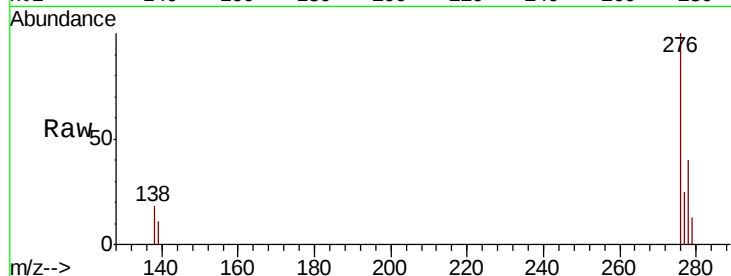




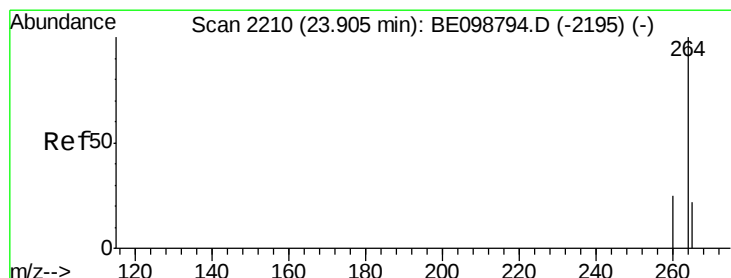
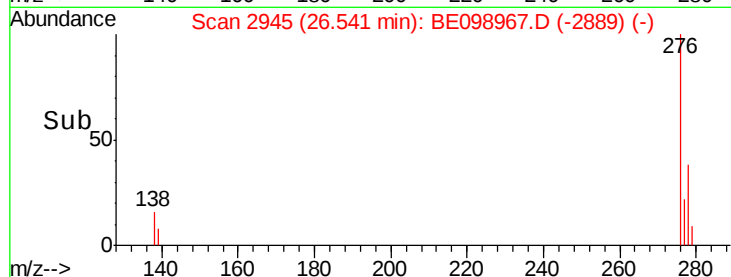
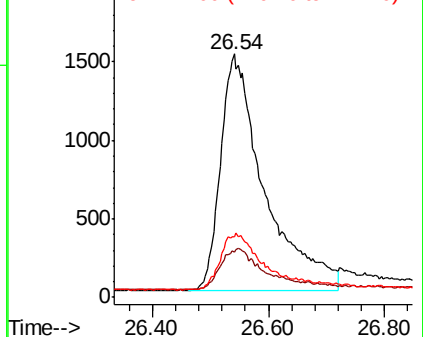
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.345 ng  
RT: 26.54 min Scan# 2945  
Delta R.T. 0.00 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:276 Resp: 7886  
Ion Ratio Lower Upper  
276 100  
138 17.0 13.8 20.8  
277 21.8 19.5 29.3

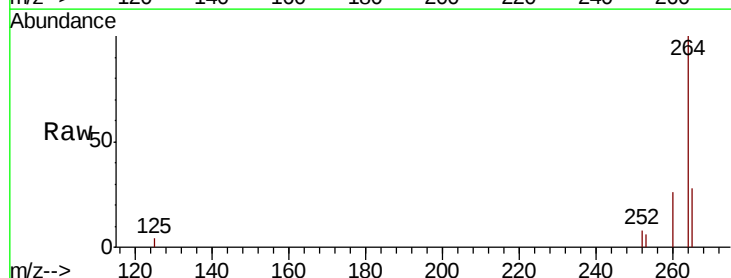


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

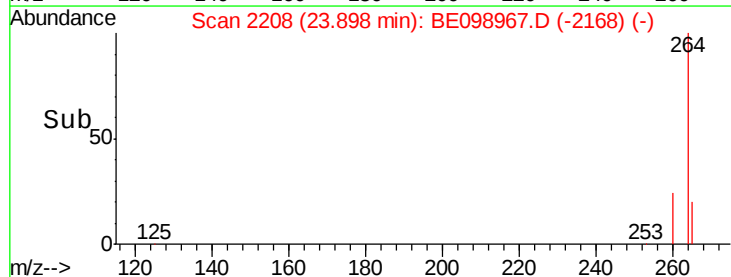
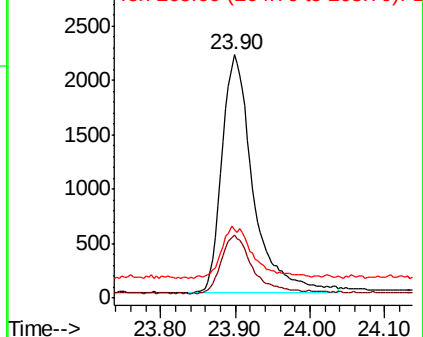


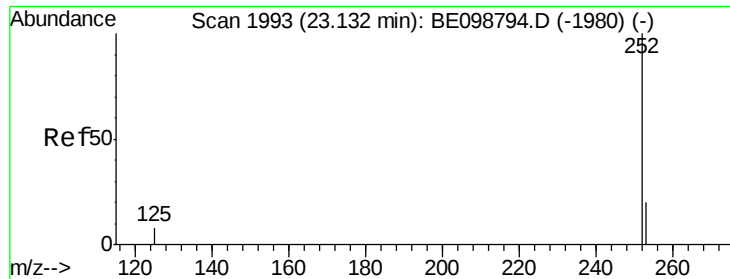
#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.90 min Scan# 2208  
Delta R.T. -0.01 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

Tgt Ion:264 Resp: 6332  
Ion Ratio Lower Upper  
264 100  
260 25.8 21.2 31.8  
265 28.3 24.6 36.8



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

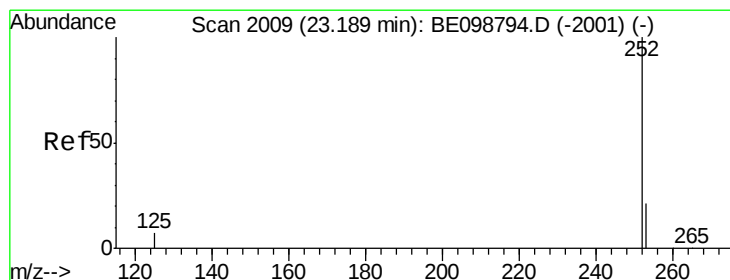
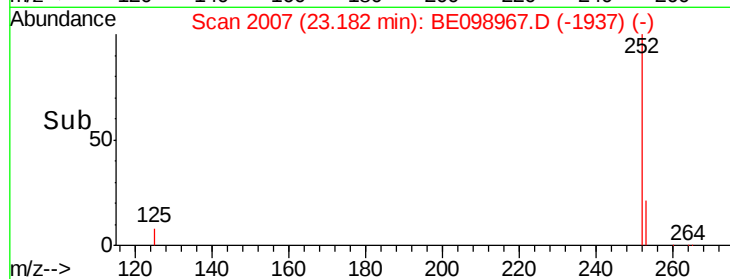
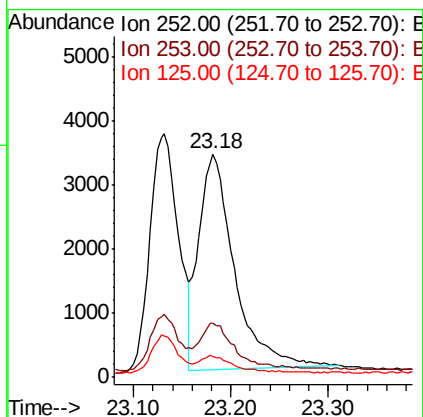
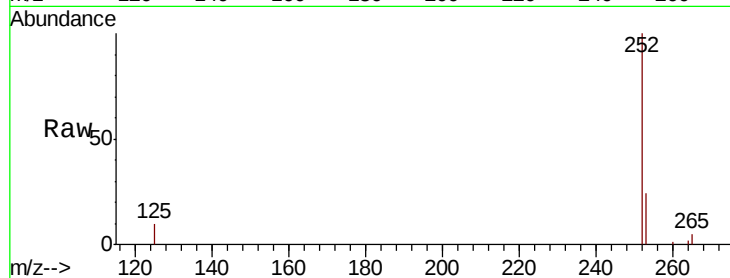




#35  
Benzo(b)fluoranthene  
Concen: 0.411 ng  
RT: 23.18 min Scan# 2007  
Delta R.T. 0.05 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

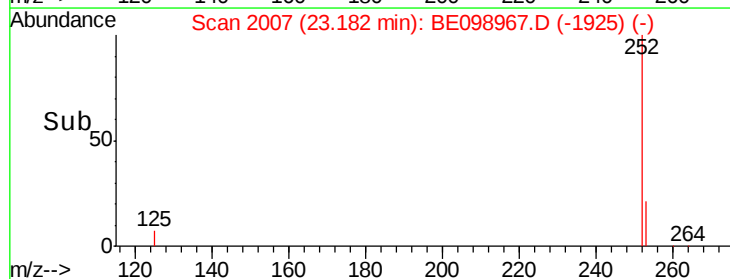
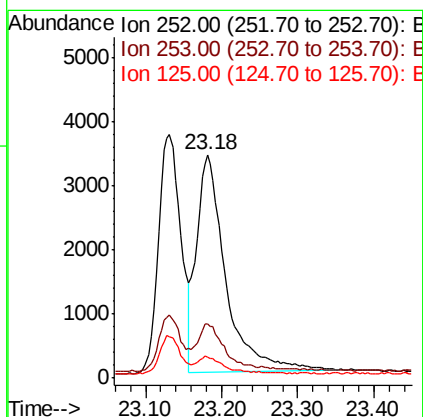
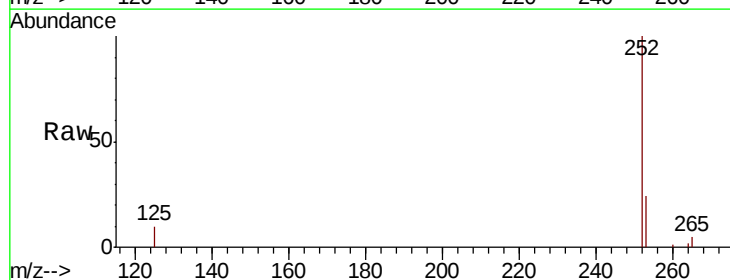
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 8557  
Ion Ratio Lower Upper  
252 100  
253 24.0 18.2 27.2  
125 9.5 7.3 10.9



#36  
Benzo(k)fluoranthene  
Concen: 0.417 ng  
RT: 23.18 min Scan# 2007  
Delta R.T. -0.01 min  
Lab File: BE098967.D  
Acq: 15 Mar 2019 10:14

Tgt Ion:252 Resp: 9090  
Ion Ratio Lower Upper  
252 100  
253 24.0 19.3 28.9  
125 9.5 7.5 11.3





#37

Benzo(a)pyrene

Concen: 0.382 ng

RT: 23.79 min Scan# 2178

Delta R.T. -0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

Instrument :

BNA\_E

ClientSampleId :

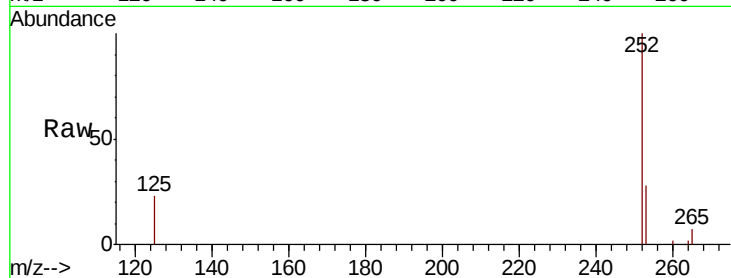
Tot Ion:252 Resp: 7622

Ion Ratio Lower Upper

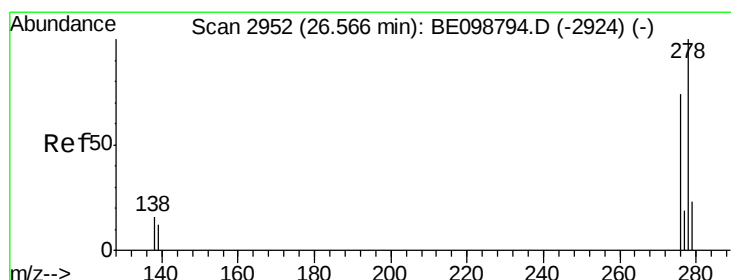
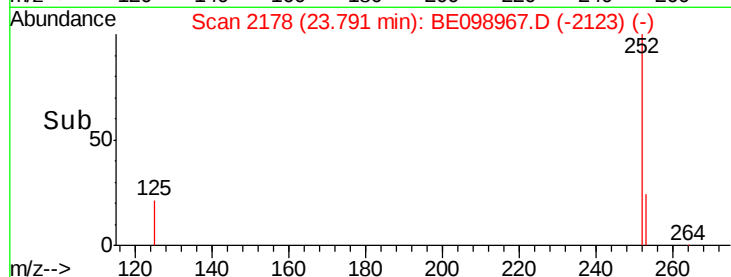
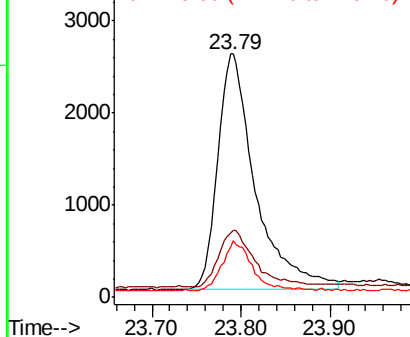
252 100

253 27.5 19.9 29.9

125 23.2 9.0 13.4#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.285 ng

RT: 26.57 min Scan# 2954

Delta R.T. 0.01 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

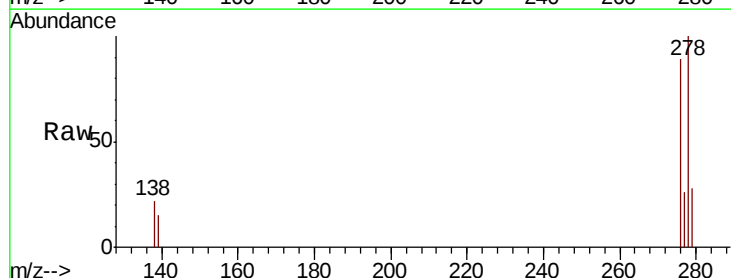
Tgt Ion:278 Resp: 5390

Ion Ratio Lower Upper

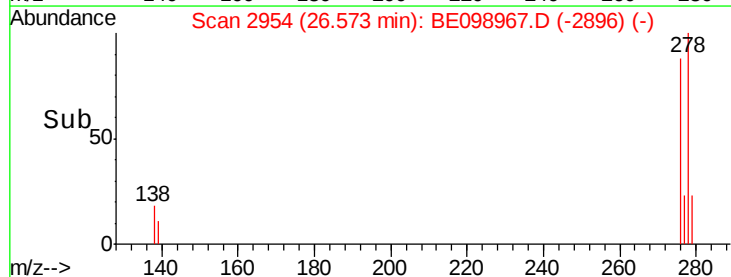
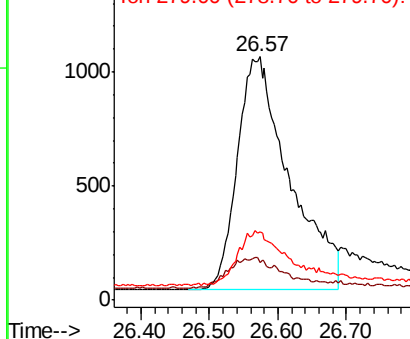
278 100

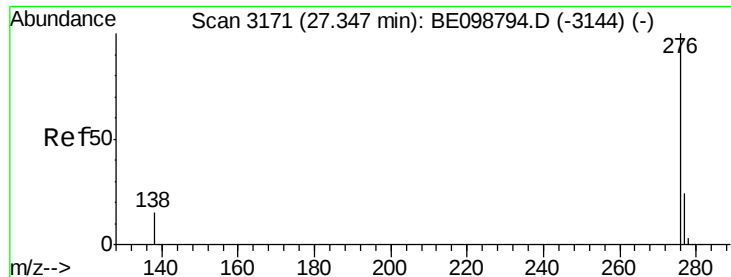
139 15.4 11.8 17.6

279 28.2 21.1 31.7



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.344 ng

RT: 27.35 min Scan# 3172

Delta R.T. 0.00 min

Lab File: BE098967.D

Acq: 15 Mar 2019 10:14

Instrument :

BNA\_E

ClientSampleId :

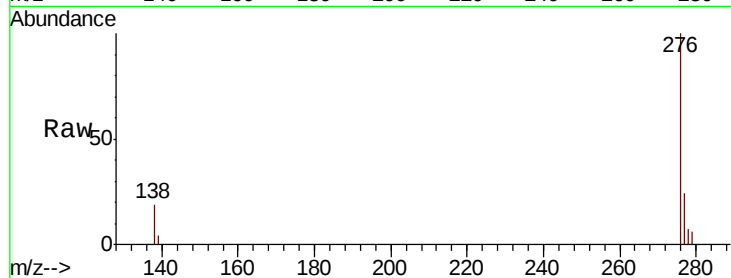
Tot Ion: 276 Resp: 6794

Ion Ratio Lower Upper

276 100

277 24.1 20.4 30.6

138 19.2 13.6 20.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

