

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011719\  
 Data File : BE098648.D  
 Acq On : 17 Jan 2019 10:32  
 Operator : SJ/JU  
 Sample : PB116433BSD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116433BSD

Quant Time: Jan 17 12:40:25 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE011519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 15 14:30:55 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 1089     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.60 | 136  | 5095     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.47 | 164  | 3383     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.23 | 188  | 8183     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.41 | 240  | 9274     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.92 | 264  | 9074     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.40  | 112 | 1130  | 0.39 | ng | 0.00 |
| 5) Phenol-d6                | 7.00  | 99  | 1748  | 0.42 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.98  | 82  | 1799  | 0.45 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.21 | 152 | 3089  | 0.37 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.97 | 330 | 650   | 0.44 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.10 | 172 | 4922  | 0.36 | ng | 0.01 |
| 25) Fluoranthene-d10        | 19.26 | 212 | 36820 | 0.36 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.86 | 244 | 7650  | 0.37 | ng | 0.00 |

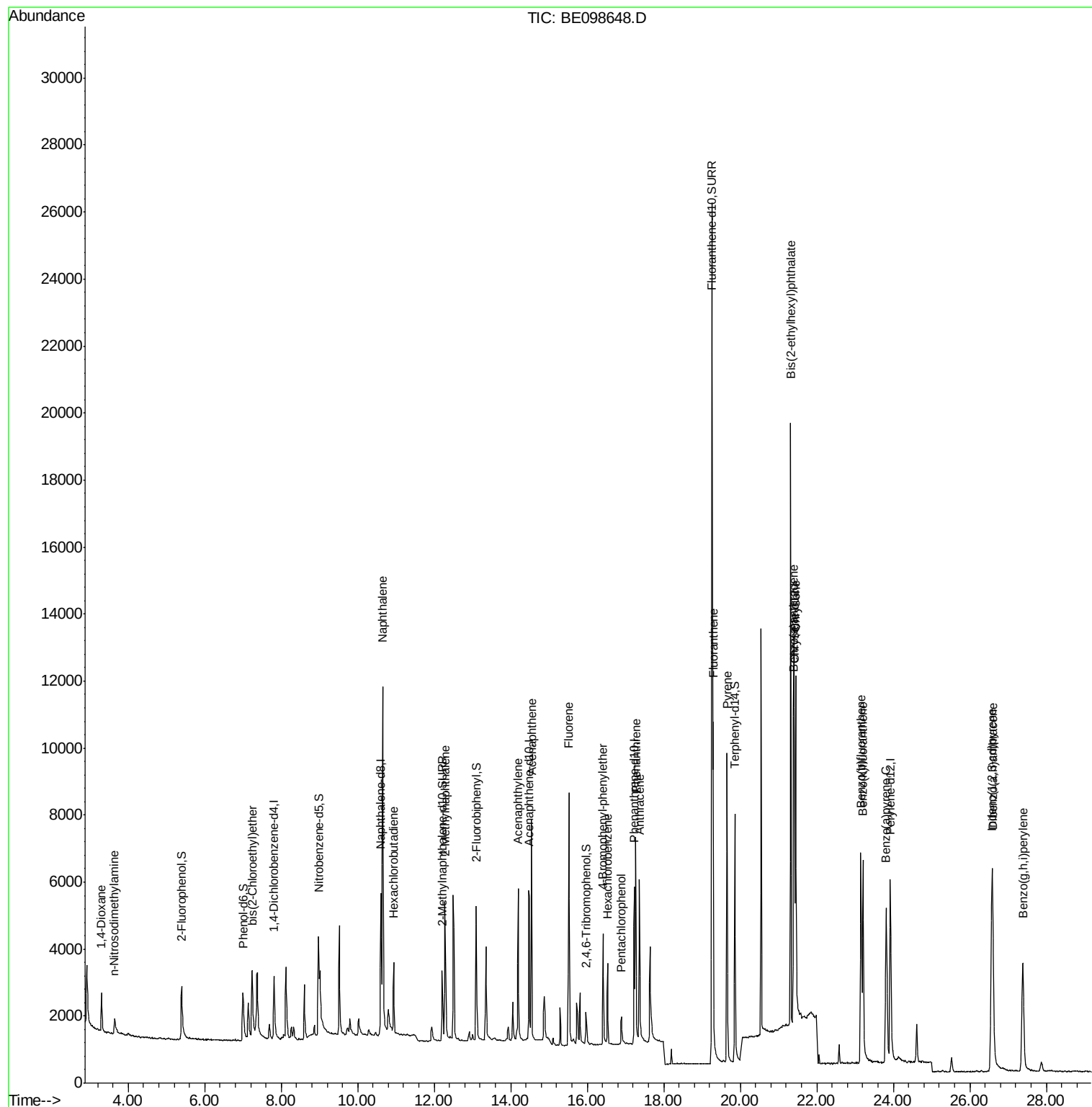
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.30  | 88  | 820   | 0.410  | ng | 91   |
| 3) n-Nitrosodimethylamine      | 3.63  | 42  | 692   | 0.427  | ng | # 94 |
| 6) bis(2-Chloroethyl)ether     | 7.24  | 93  | 1200  | 0.384  | ng | 93   |
| 9) Naphthalene                 | 10.65 | 128 | 18742 | 0.369  | ng | 100  |
| 10) Hexachlorobutadiene        | 10.94 | 225 | 1395  | 0.384  | ng | 95   |
| 12) 2-Methylnaphthalene        | 12.28 | 142 | 3046  | 0.362  | ng | 93   |
| 16) Acenaphthylene             | 14.20 | 152 | 5406  | 0.369  | ng | 99   |
| 17) Acenaphthene               | 14.54 | 154 | 3383  | 0.368  | ng | 99   |
| 18) Fluorene                   | 15.52 | 166 | 4487  | 0.375  | ng | 99   |
| 20) 4-Bromophenyl-phenylether  | 16.41 | 248 | 1575  | 0.363  | ng | # 85 |
| 21) Hexachlorobenzene          | 16.53 | 284 | 1909  | 0.365  | ng | 95   |
| 22) Pentachlorophenol          | 16.89 | 266 | 672   | 0.514  | ng | 97   |
| 23) Phenanthrene               | 17.27 | 178 | 6969  | 0.359  | ng | 100  |
| 24) Anthracene                 | 17.36 | 178 | 5802  | 0.349  | ng | 98   |
| 26) Fluoranthene               | 19.29 | 202 | 8952  | 0.359  | ng | 98   |
| 28) Pyrene                     | 19.65 | 202 | 9390  | 0.368  | ng | 100  |
| 30) Benzo(a)anthracene         | 21.39 | 228 | 9278  | 0.372  | ng | 99   |
| 31) Chrysene                   | 21.45 | 228 | 9491  | 0.367  | ng | 100  |
| 32) Bis(2-ethylhexyl)phthalate | 21.32 | 149 | 18628 | 0.352  | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 26.57 | 276 | 10310 | 0.387  | ng | # 93 |
| 35) Benzo(b)fluoranthene       | 23.15 | 252 | 9230  | 0.373  | ng | # 98 |
| 36) Benzo(k)fluoranthene       | 23.21 | 252 | 9977  | 0.369  | ng | 98   |
| 37) Benzo(a)pyrene             | 23.81 | 252 | 8980  | 0.369  | ng | 95   |
| 38) Dibenzo(a,h)anthracene     | 26.60 | 278 | 8491  | 0.394  | ng | # 95 |
| 39) Benzo(g,h,i)perylene       | 27.39 | 276 | 8767  | 0.372  | ng | 97   |

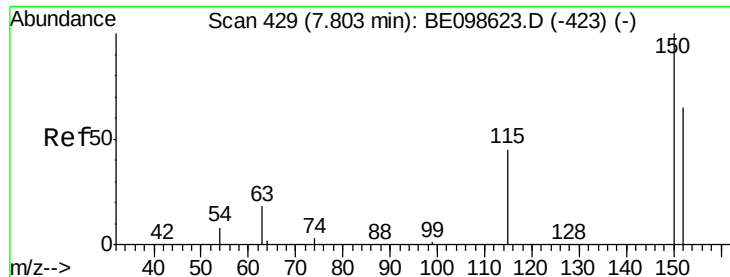
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 15 14:30:55 2019  
Response via : Initial Calibration



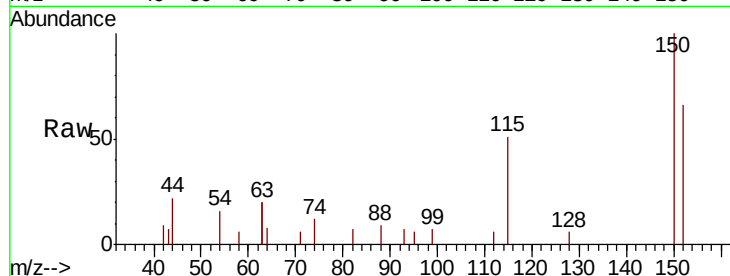


#1

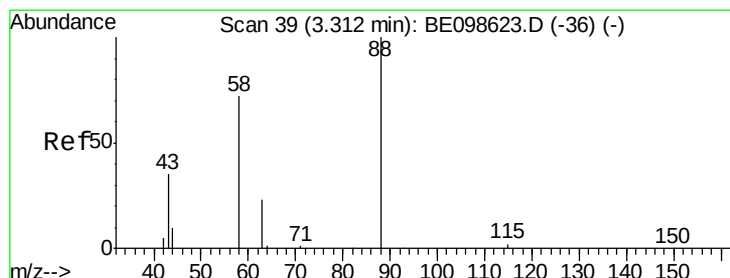
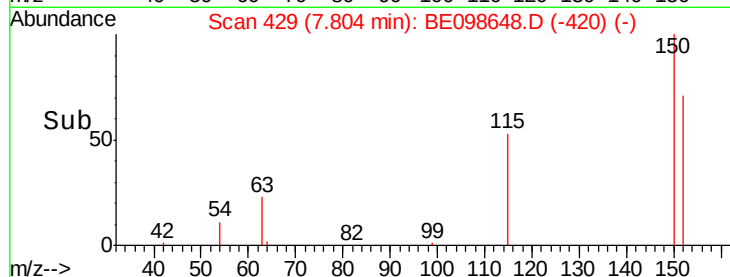
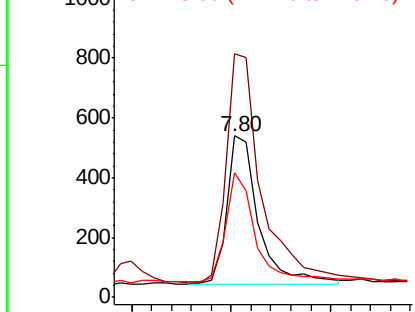
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.80 min Scan# 429  
Delta R.T. 0.00 min  
Lab File: BE098648.D  
Acq: 17 Jan 2019 10:32

Instrument :  
BNA\_E  
ClientSampleId :  
PB116433BSD

Tot Ion:152 Resp: 1089  
Ion Ratio Lower Upper  
152 100  
150 151.0 121.4 182.2  
115 77.0 59.1 88.7



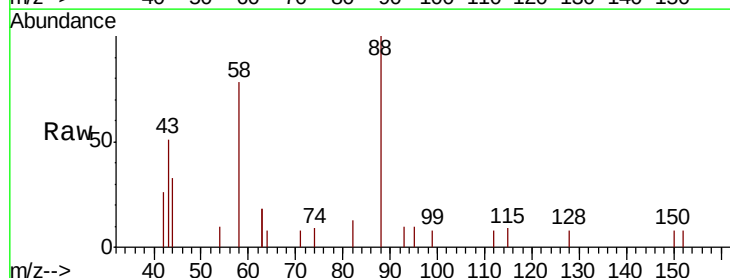
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



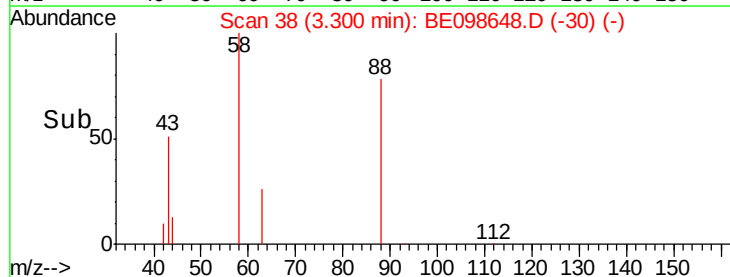
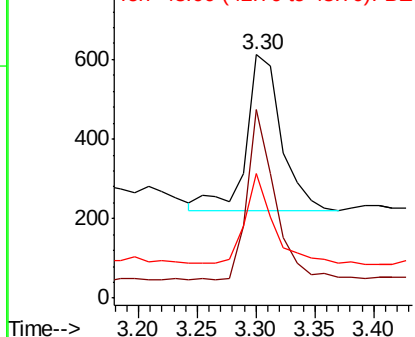
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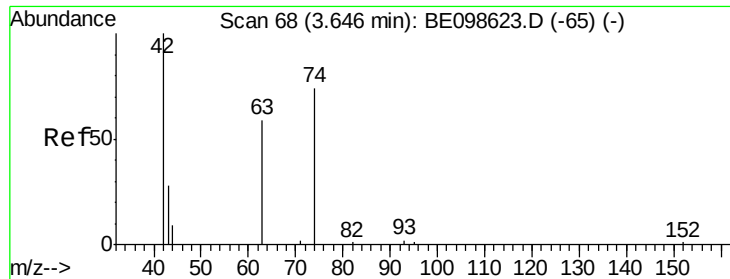
1,4-Dioxane  
Concen: 0.410 ng  
RT: 3.30 min Scan# 38  
Delta R.T. -0.01 min  
Lab File: BE098648.D  
Acq: 17 Jan 2019 10:32

Tgt Ion: 88 Resp: 820  
Ion Ratio Lower Upper  
88 100  
58 85.4 73.9 110.9  
43 45.5 43.7 65.5



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



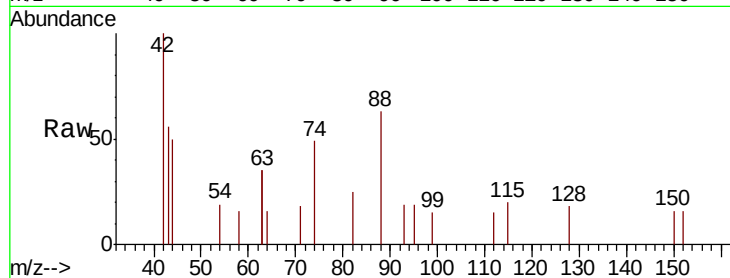


#3

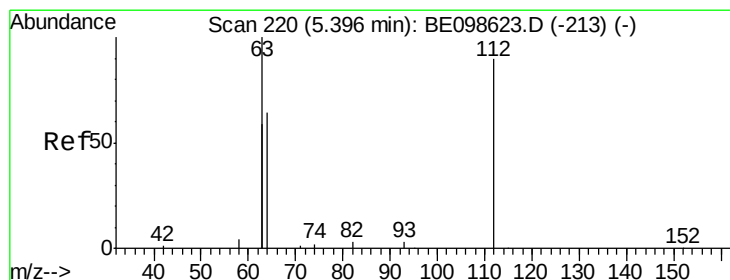
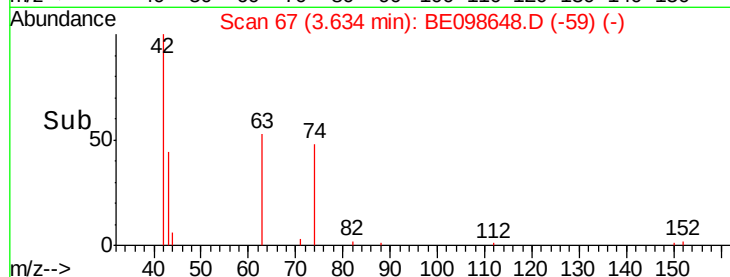
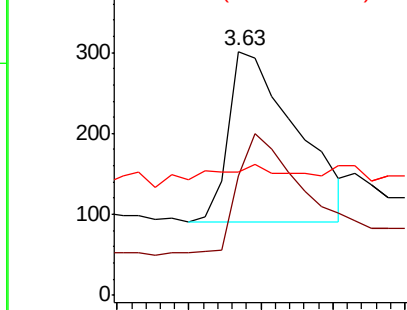
n-Nitrosodimethylamine  
 Concen: 0.427 ng  
 RT: 3.63 min Scan# 67  
 Delta R.T. -0.01 min  
 Lab File: BE098648.D  
 Acq: 17 Jan 2019 10:32

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116433BSD

Tot Ion: 42 Resp: 692  
 Ion Ratio Lower Upper  
 42 100  
 74 68.6 58.9 88.3  
 44 14.7 0.0 0.0#



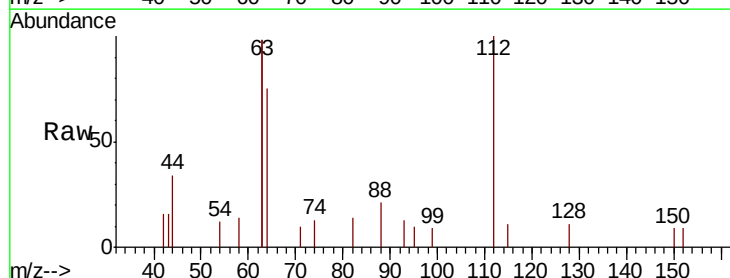
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



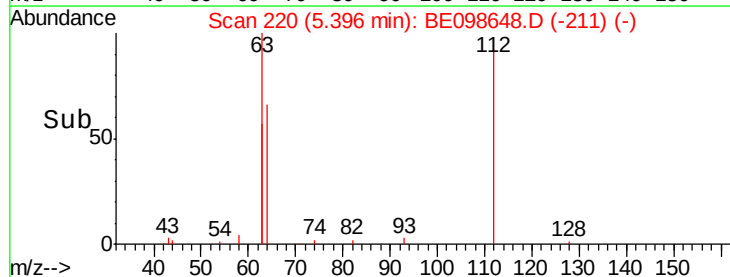
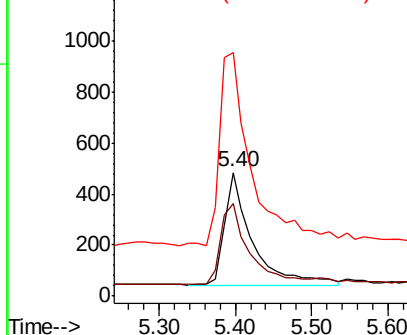
#4

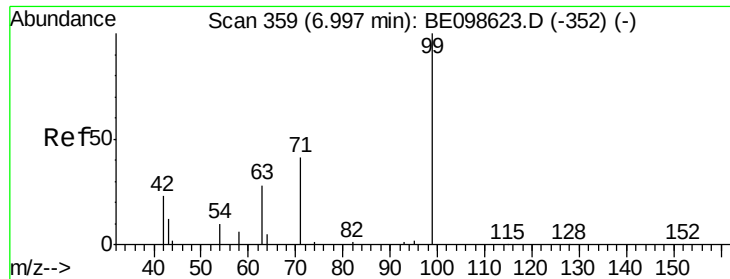
2-Fluorophenol  
 Concen: 0.389 ng  
 RT: 5.40 min Scan# 220  
 Delta R.T. 0.00 min  
 Lab File: BE098648.D  
 Acq: 17 Jan 2019 10:32

Tgt Ion: 112 Resp: 1130  
 Ion Ratio Lower Upper  
 112 100  
 64 75.8 62.9 94.3  
 63 217.4 152.2 228.4



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: 0.423 ng

RT: 7.00 min Scan# 359

Delta R.T. 0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

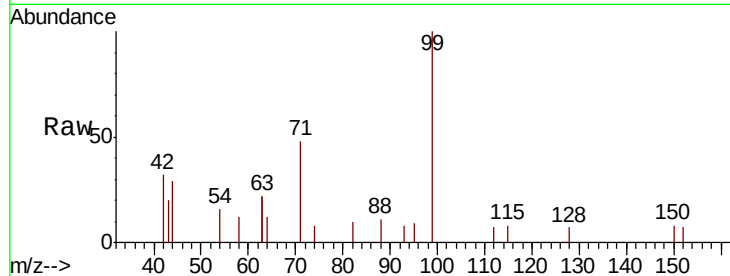
Tot Ion: 99 Resp: 1748

Ion Ratio Lower Upper

99 100

42 32.5 24.6 37.0

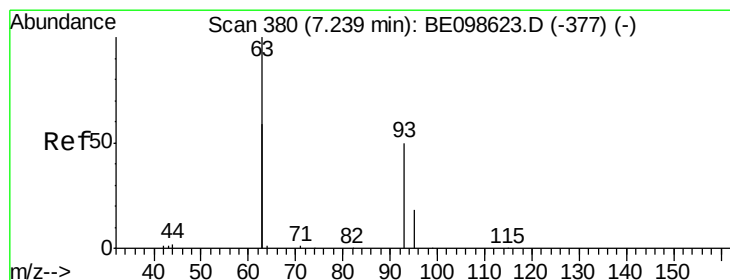
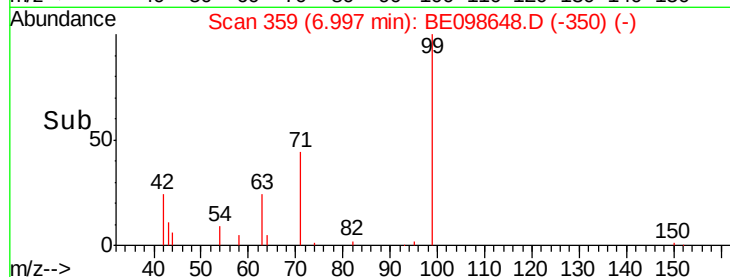
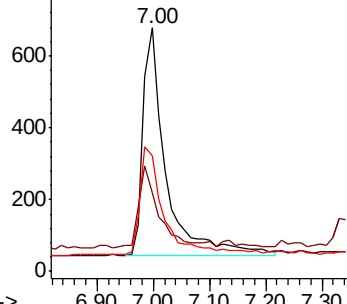
71 48.5 35.1 52.7



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



#6

bis(2-Chloroethyl)ether

Concen: 0.384 ng

RT: 7.24 min Scan# 380

Delta R.T. 0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

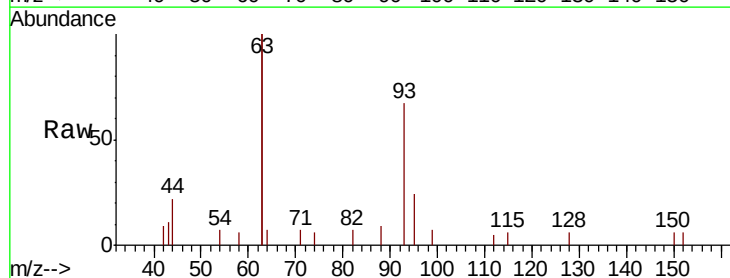
Tgt Ion: 93 Resp: 1200

Ion Ratio Lower Upper

93 100

63 319.2 267.3 400.9

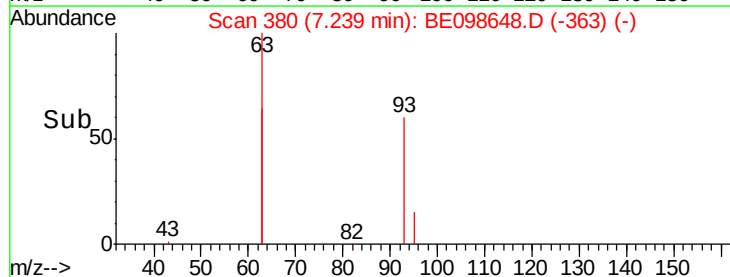
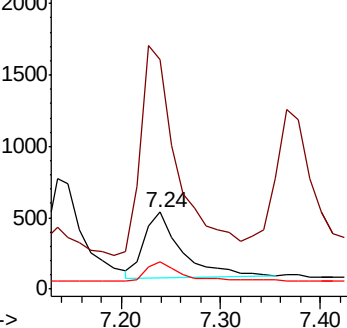
95 31.9 26.2 39.4

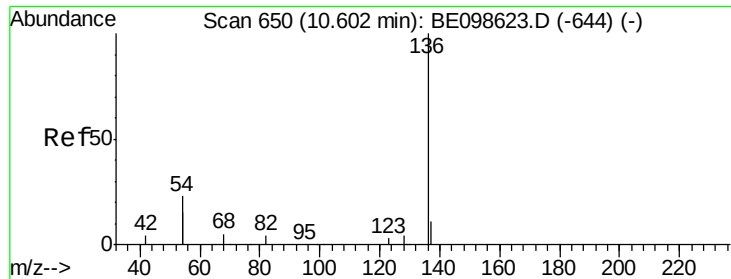


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

Tot Ion:136 Resp: 5095

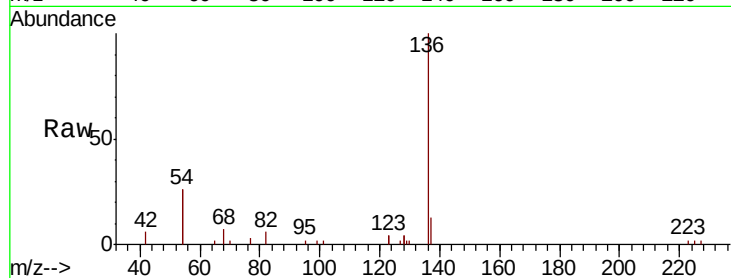
Ion Ratio Lower Upper

136 100

137 13.0 9.7 14.5

54 51.9 35.5 53.3

68 7.1 5.0 7.6

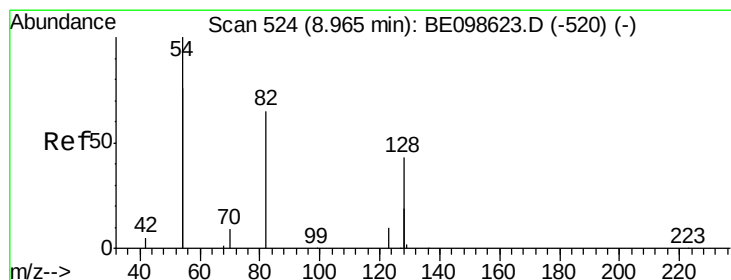
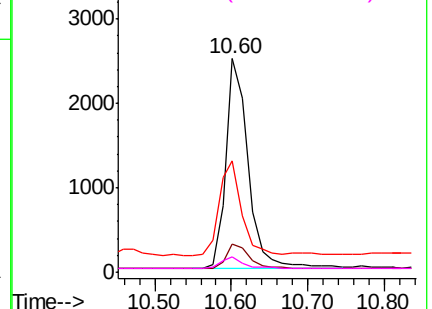
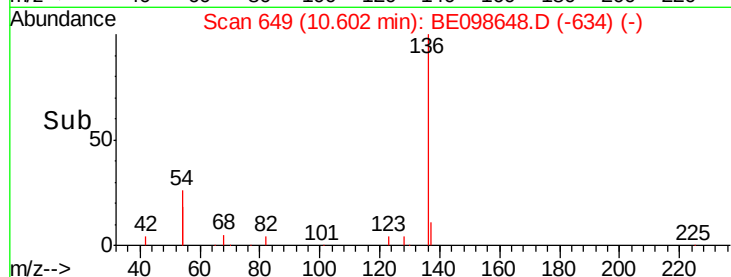


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.445 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.01 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

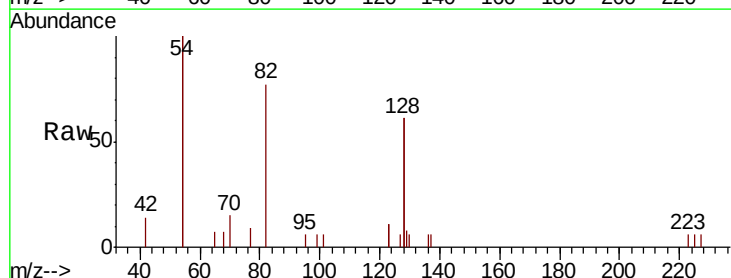
Tgt Ion: 82 Resp: 1799

Ion Ratio Lower Upper

82 100

128 158.1 96.5 144.7#

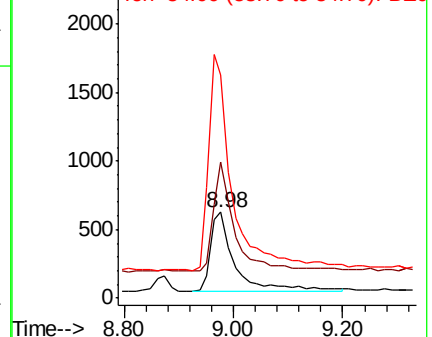
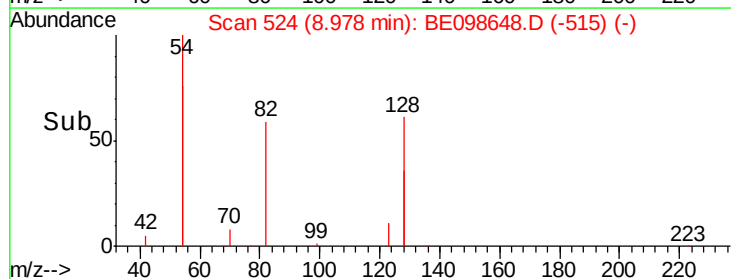
54 260.1 224.7 337.1

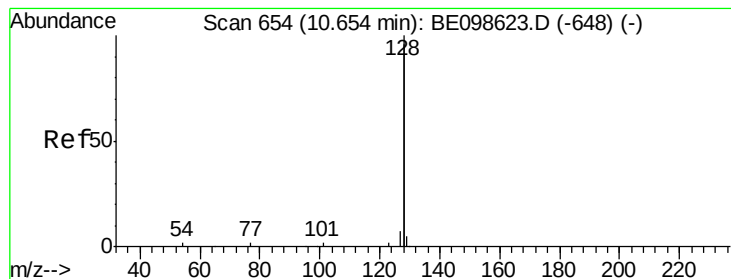


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.369 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

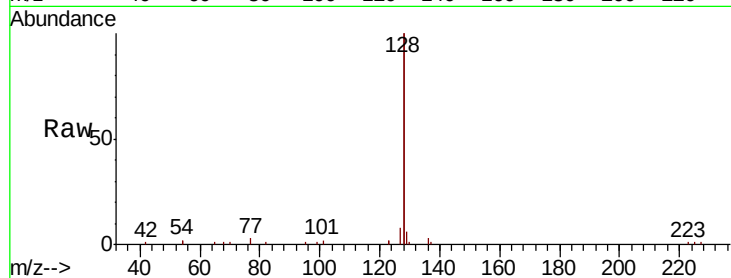
Tot Ion:128 Resp: 18742

Ion Ratio Lower Upper

128 100

129 3.2 2.6 3.8

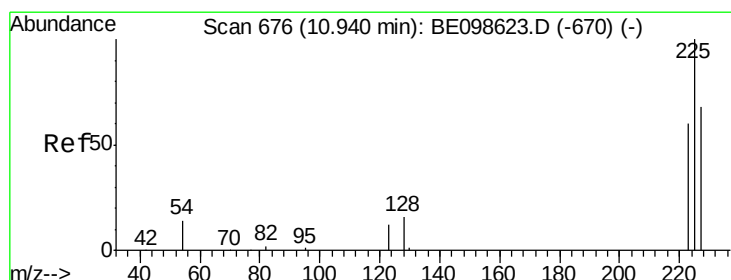
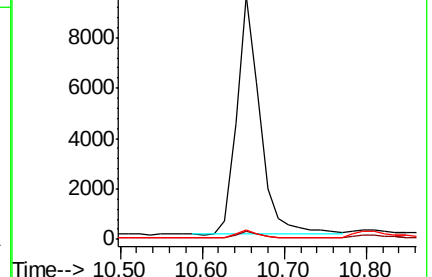
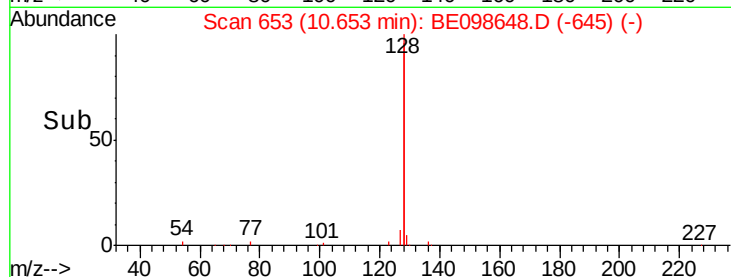
127 3.8 3.0 4.6



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: 0.384 ng

RT: 10.94 min Scan# 675

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

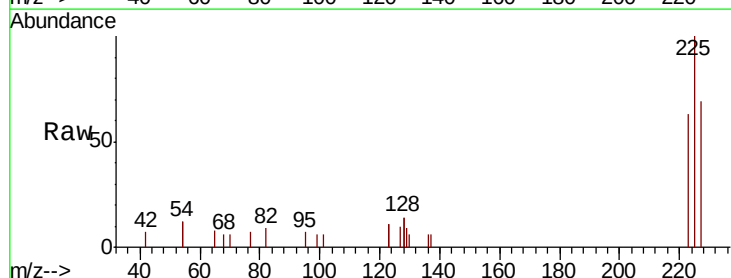
Tgt Ion:225 Resp: 1395

Ion Ratio Lower Upper

225 100

223 63.8 47.8 71.8

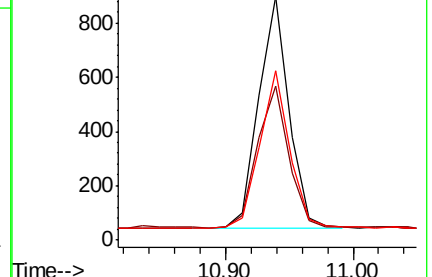
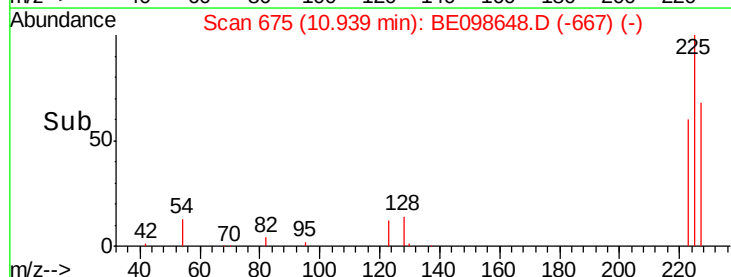
227 67.3 50.5 75.7

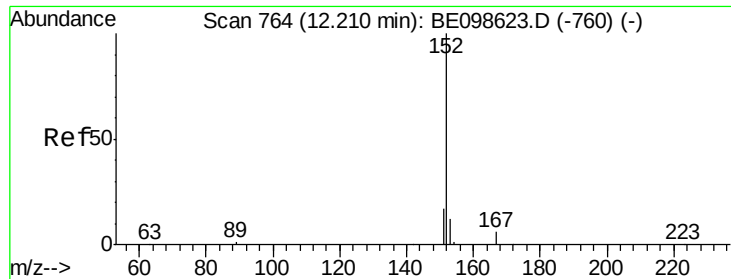


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

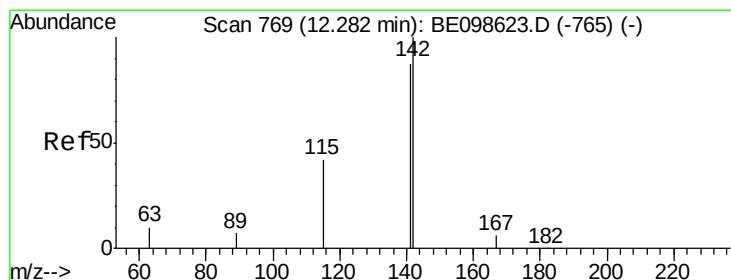
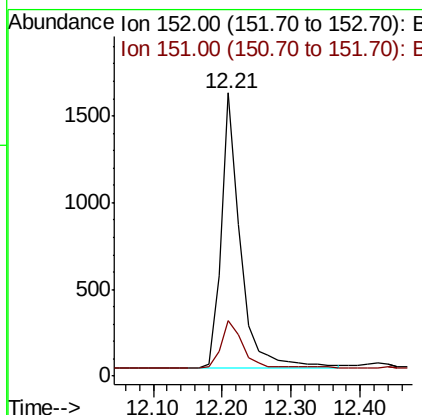
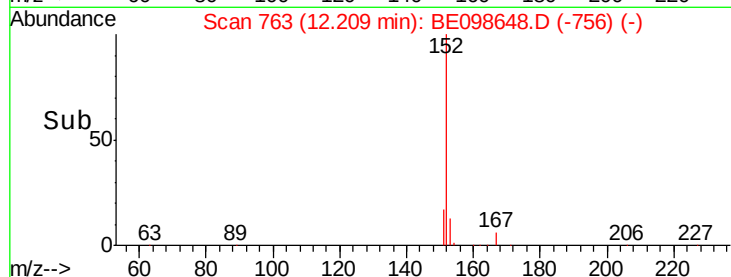
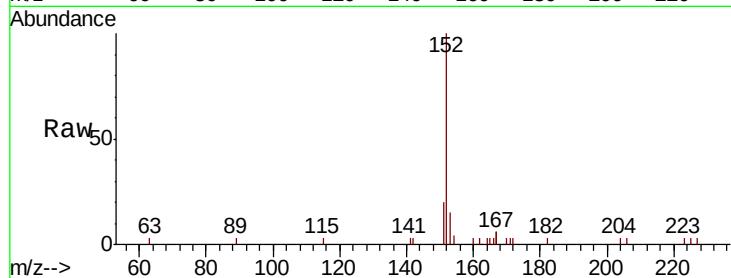




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.368 ng  
 RT: 12.21 min Scan# 763  
 Delta R.T. -0.00 min  
 Lab File: BE098648.D  
 Acq: 17 Jan 2019 10:32

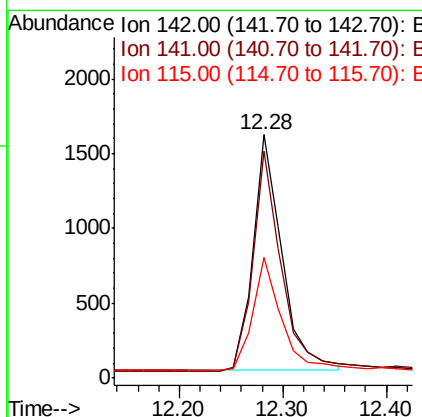
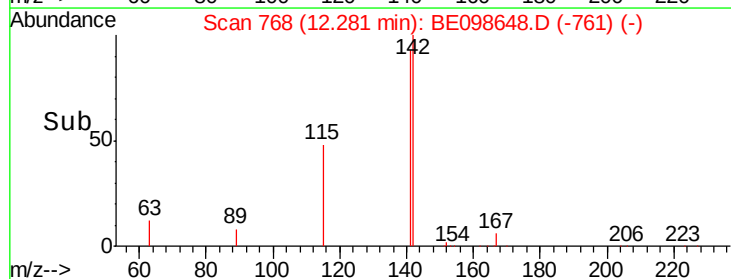
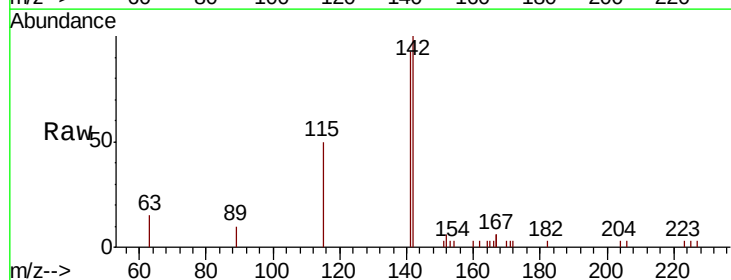
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116433BSD

Tot Ion:152 Resp: 3089  
 Ion Ratio Lower Upper  
 152 100  
 151 19.2 16.2 24.4

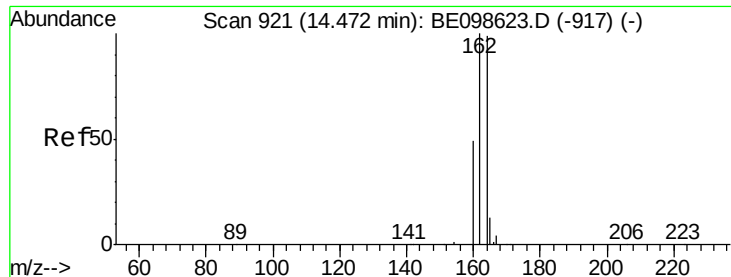


#12  
 2-Methylnaphthalene  
 Concen: 0.362 ng  
 RT: 12.28 min Scan# 768  
 Delta R.T. -0.00 min  
 Lab File: BE098648.D  
 Acq: 17 Jan 2019 10:32

Tgt Ion:142 Resp: 3046  
 Ion Ratio Lower Upper  
 142 100  
 141 93.0 70.0 105.0  
 115 49.8 35.2 52.8



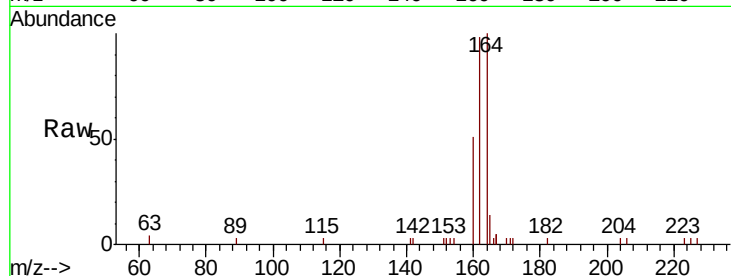




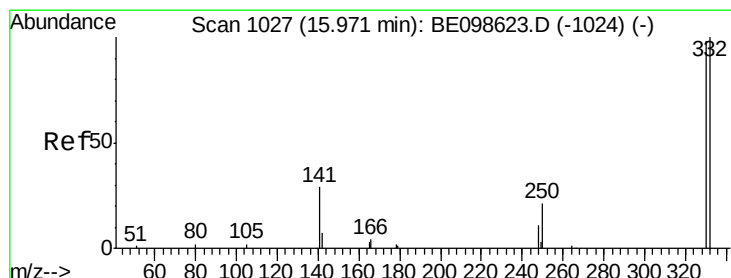
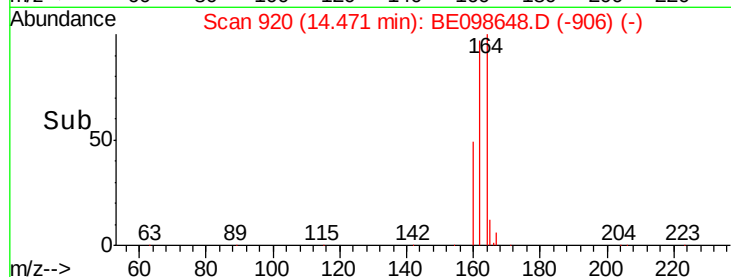
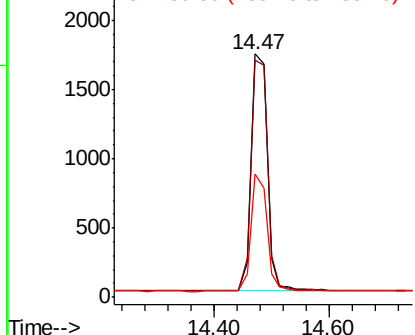
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.47 min Scan# 920  
Delta R.T. -0.00 min  
Lab File: BE098648.D  
Acq: 17 Jan 2019 10:32

Instrument :  
BNA\_E  
ClientSampleId :  
PB116433BSD

Tot Ion:164 Resp: 3383  
Ion Ratio Lower Upper  
164 100  
162 97.6 80.5 120.7  
160 50.7 40.1 60.1

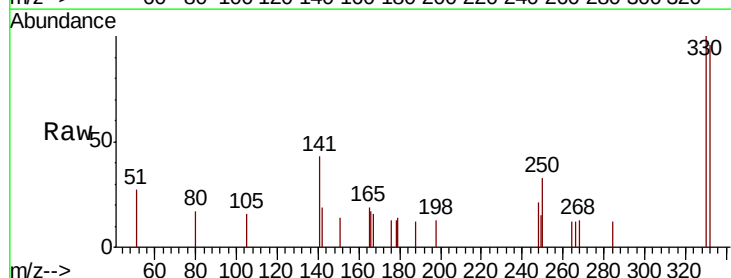


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

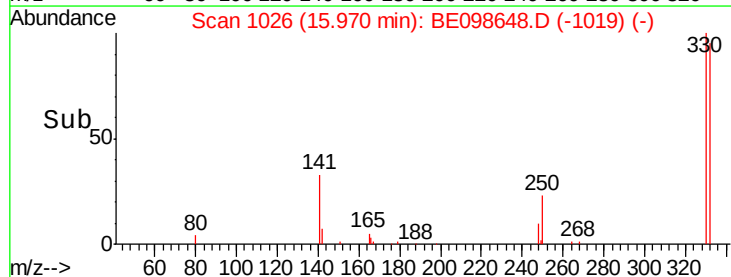
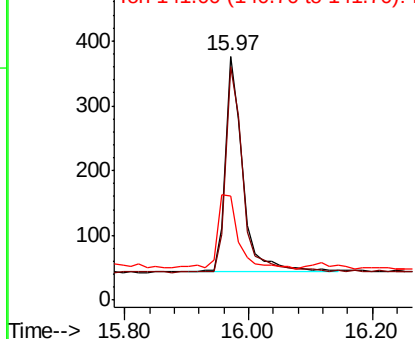


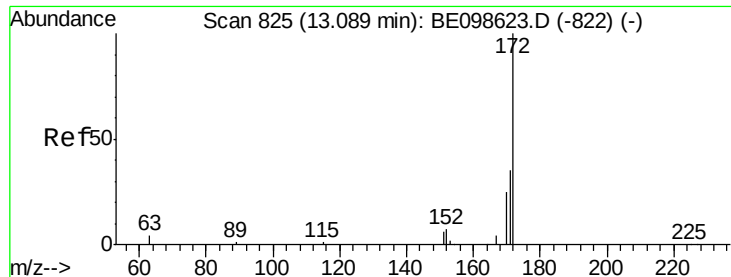
#14  
2,4,6-Tribromophenol  
Concen: 0.442 ng  
RT: 15.97 min Scan# 1026  
Delta R.T. -0.00 min  
Lab File: BE098648.D  
Acq: 17 Jan 2019 10:32

Tgt Ion:330 Resp: 650  
Ion Ratio Lower Upper  
330 100  
332 94.3 73.3 109.9  
141 40.8 33.1 49.7



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

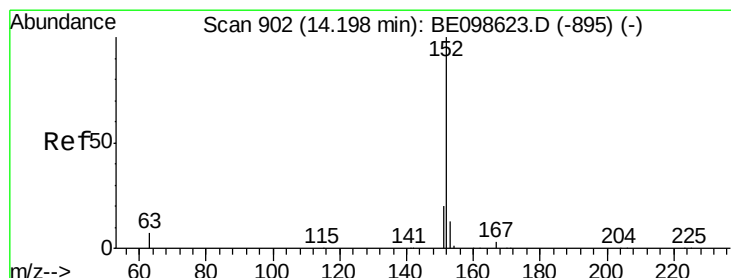
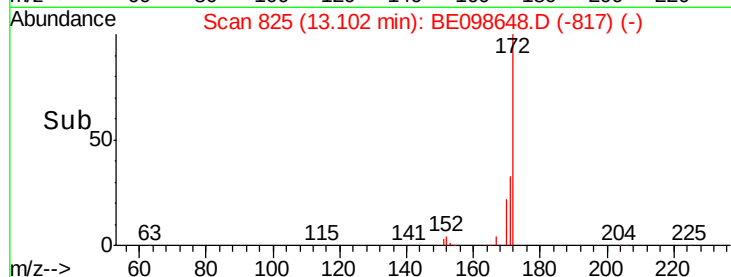
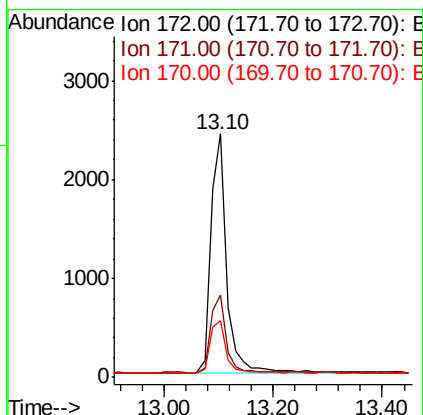
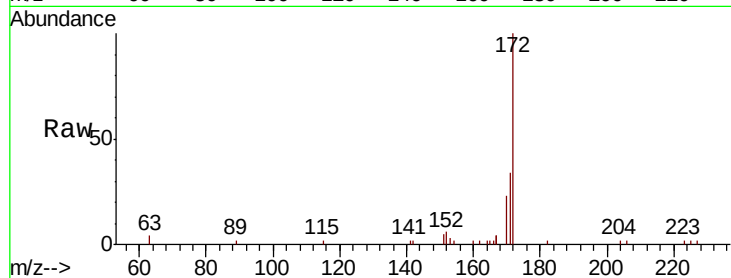




#15  
2-Fluorobiphenyl  
Concen: 0.355 ng  
RT: 13.10 min Scan# 825  
Delta R.T. 0.01 min  
Lab File: BE098648.D  
Acq: 17 Jan 2019 10:32

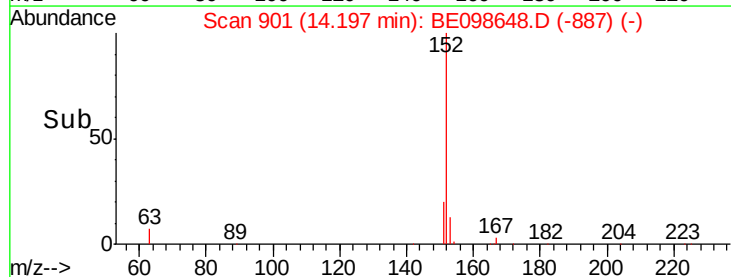
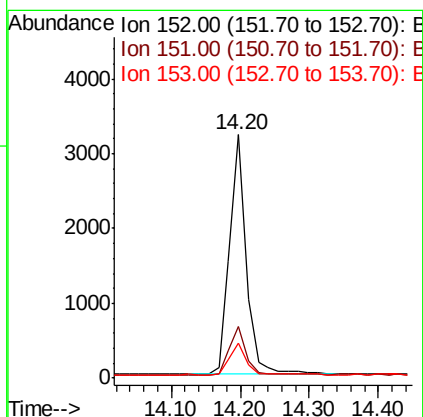
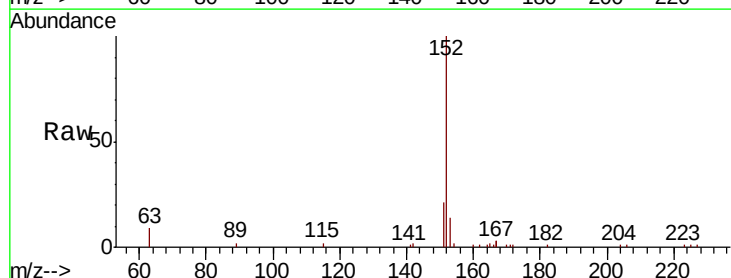
Instrument :  
BNA\_E  
ClientSampleId :  
PB116433BSD

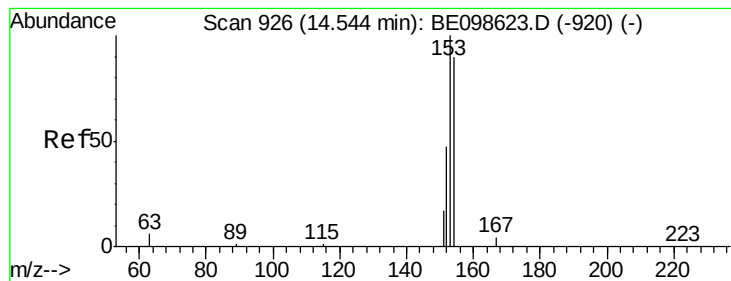
Tot Ion:172 Resp: 4922  
Ion Ratio Lower Upper  
172 100  
171 34.0 29.0 43.4  
170 23.4 20.8 31.2



#16  
Acenaphthylene  
Concen: 0.369 ng  
RT: 14.20 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: BE098648.D  
Acq: 17 Jan 2019 10:32

Tgt Ion:152 Resp: 5406  
Ion Ratio Lower Upper  
152 100  
151 19.9 16.3 24.5  
153 12.8 10.7 16.1





#17

Acenaphthene

Concen: 0.368 ng

RT: 14.54 min Scan# 925

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

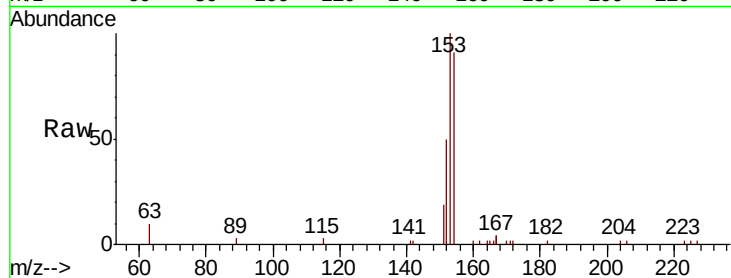
Tot Ion:154 Resp: 3383

Ion Ratio Lower Upper

154 100

153 116.5 93.9 140.9

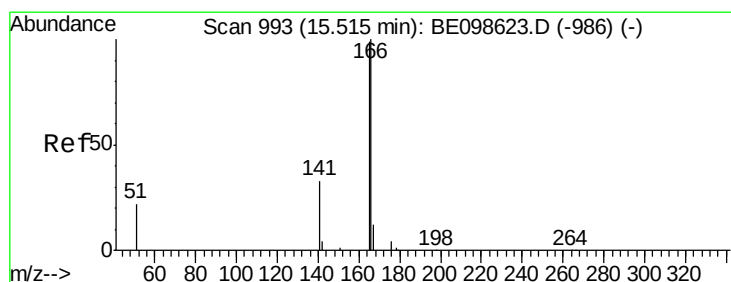
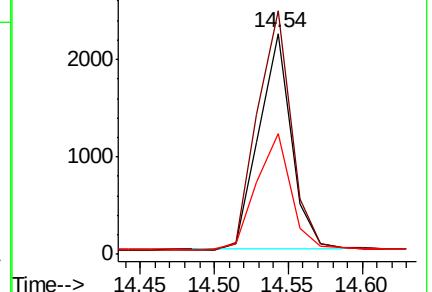
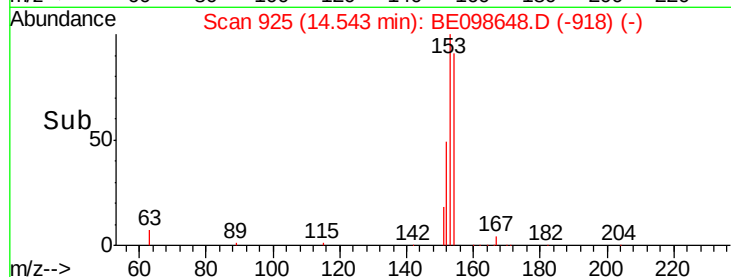
152 56.7 45.8 68.8



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: 0.375 ng

RT: 15.52 min Scan# 992

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

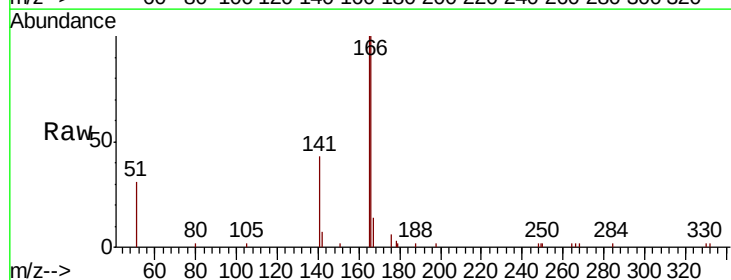
Tgt Ion:166 Resp: 4487

Ion Ratio Lower Upper

166 100

165 98.2 79.3 118.9

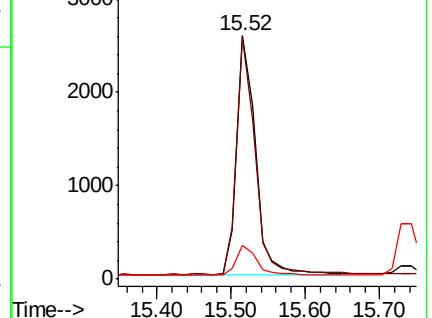
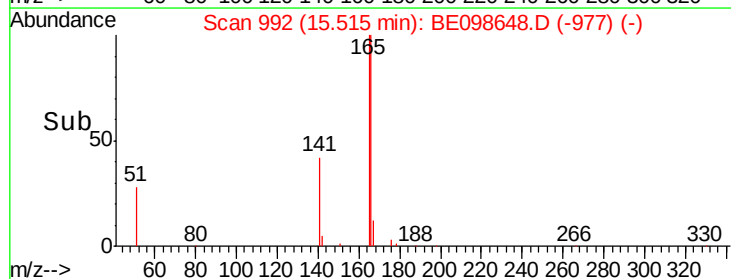
167 13.2 10.6 15.8

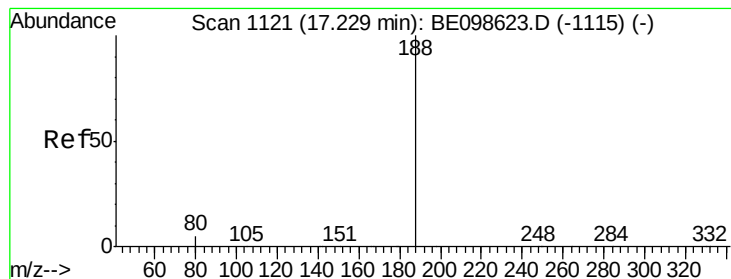


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

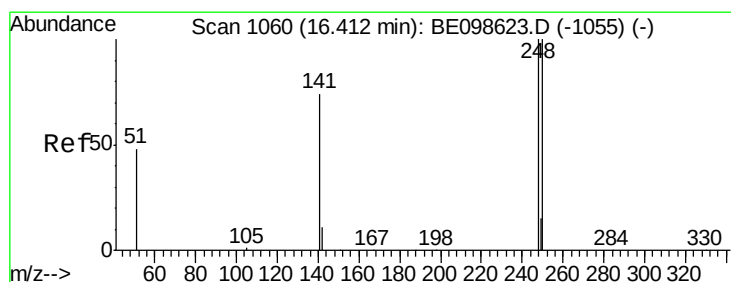
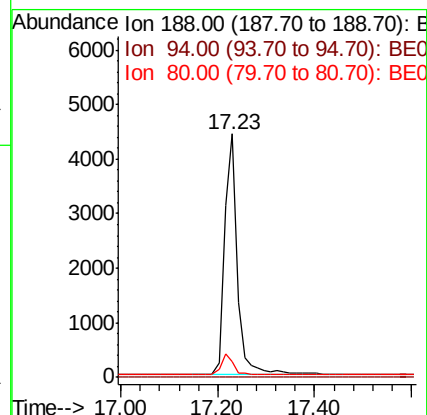
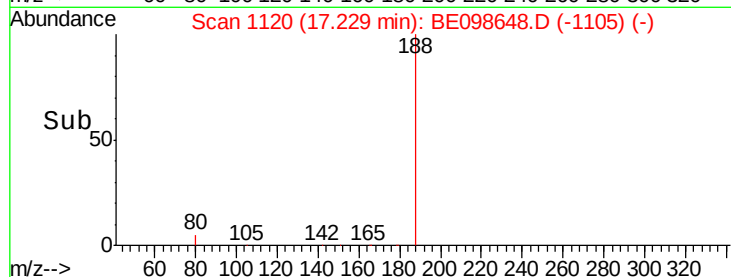
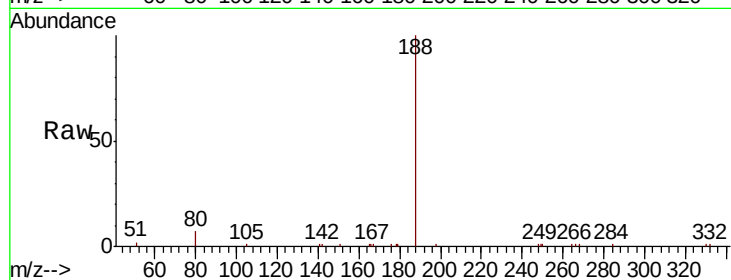
Tot Ion:188 Resp: 8183

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.5 4.7 7.1



#20

4-Bromophenyl-phenylether

Concen: 0.363 ng

RT: 16.41 min Scan# 1059

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

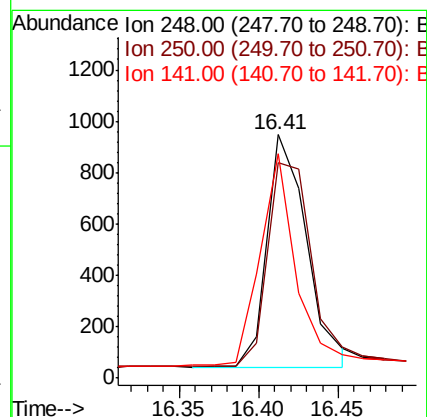
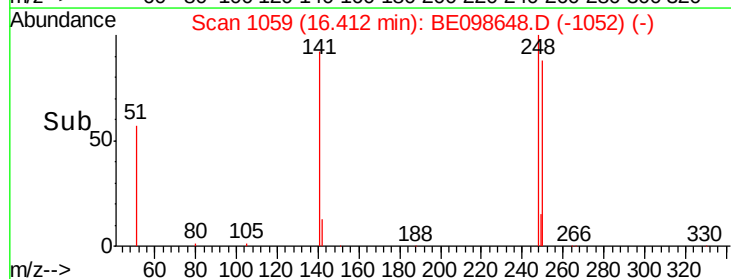
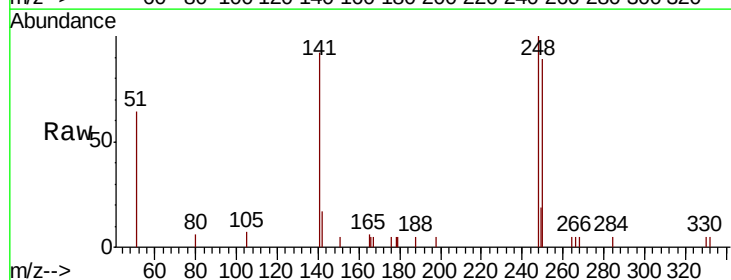
Tgt Ion:248 Resp: 1575

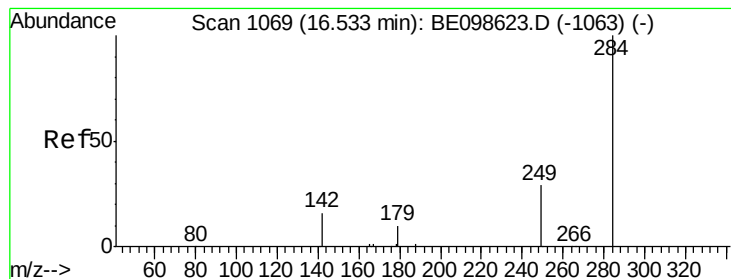
Ion Ratio Lower Upper

248 100

250 88.5 80.2 120.4

141 92.3 60.5 90.7#





#21

Hexachlorobenzene

Concen: 0.365 ng

RT: 16.53 min Scan# 1068

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

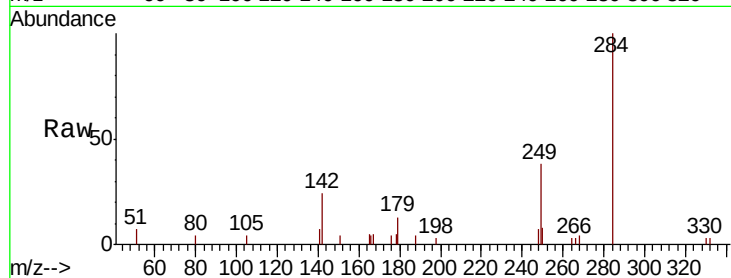
Tot Ion:284 Resp: 1909

Ion Ratio Lower Upper

284 100

142 34.2 25.5 38.3

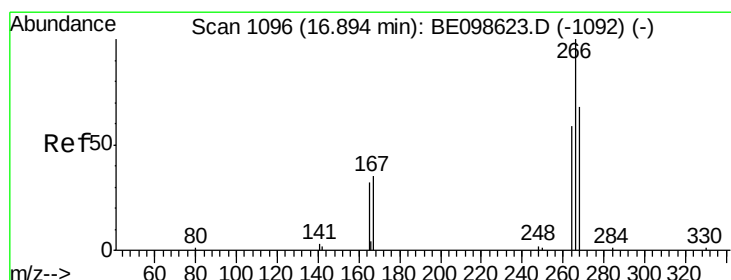
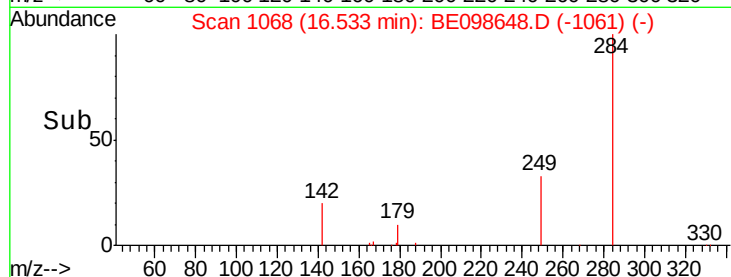
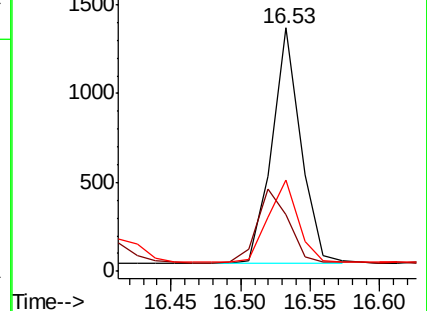
249 36.1 26.6 39.8



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: 0.514 ng

RT: 16.89 min Scan# 1095

Delta R.T. 0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

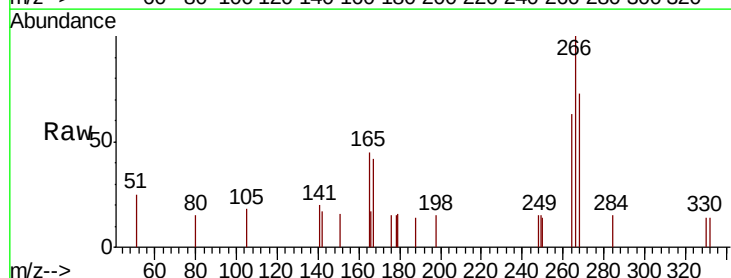
Tgt Ion:266 Resp: 672

Ion Ratio Lower Upper

266 100

264 63.3 53.7 80.5

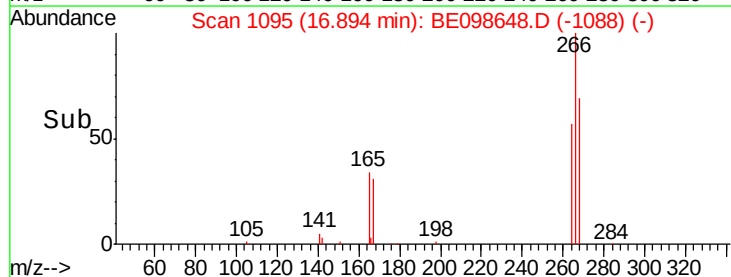
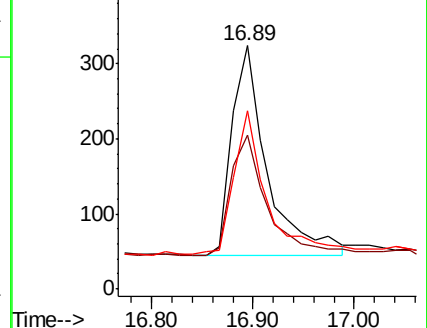
268 73.1 59.8 89.8

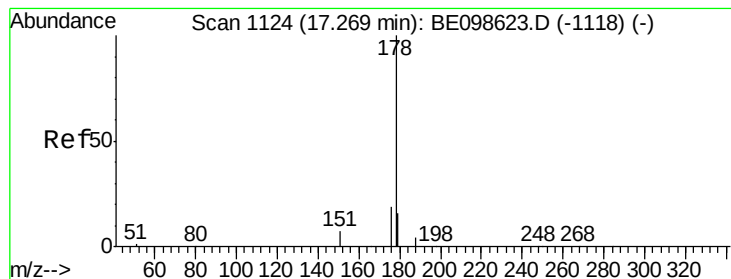


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.359 ng

RT: 17.27 min Scan# 1123

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

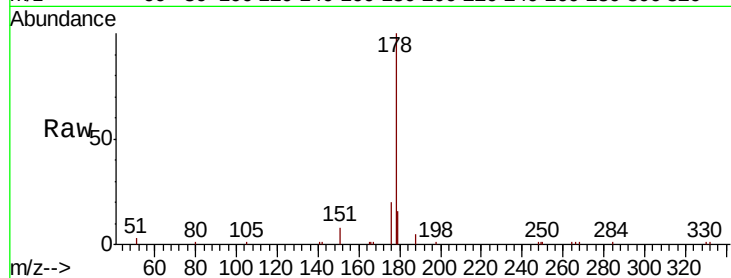
Tot Ion:178 Resp: 6969

Ion Ratio Lower Upper

178 100

176 19.8 15.9 23.9

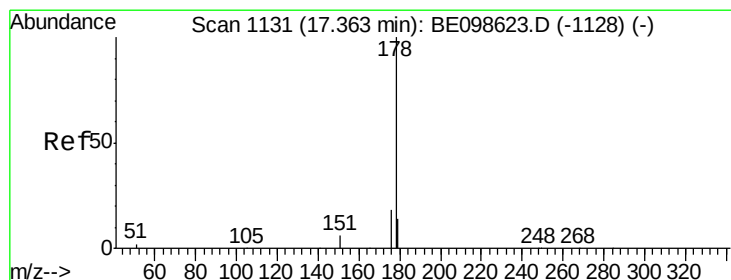
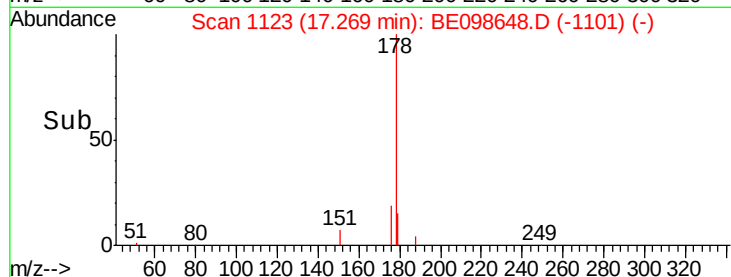
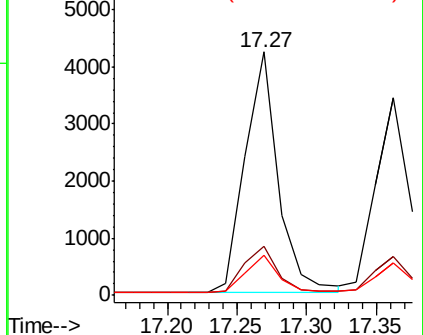
179 15.6 12.2 18.4



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



#24

Anthracene

Concen: 0.349 ng

RT: 17.36 min Scan# 1130

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

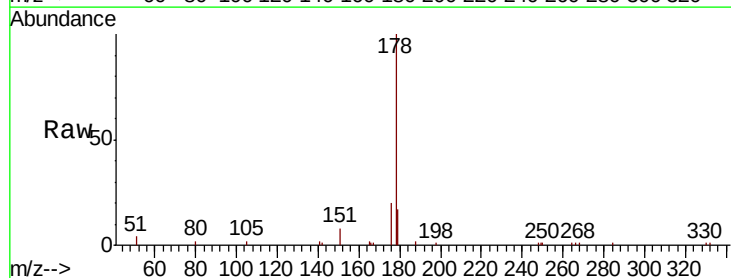
Tgt Ion:178 Resp: 5802

Ion Ratio Lower Upper

178 100

176 19.3 14.9 22.3

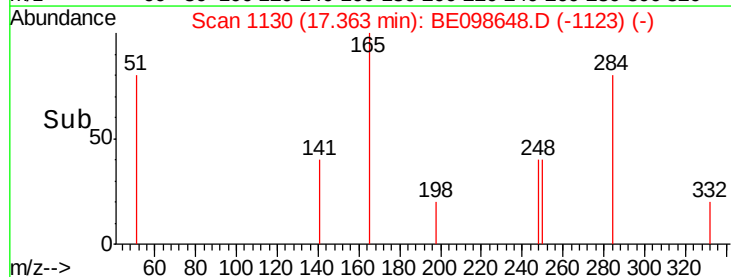
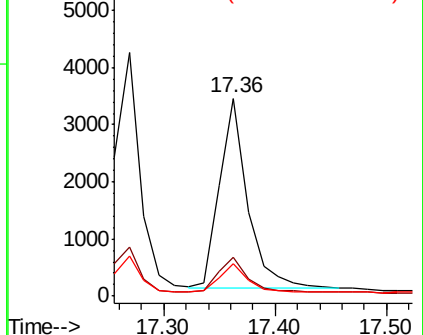
179 15.4 11.8 17.8

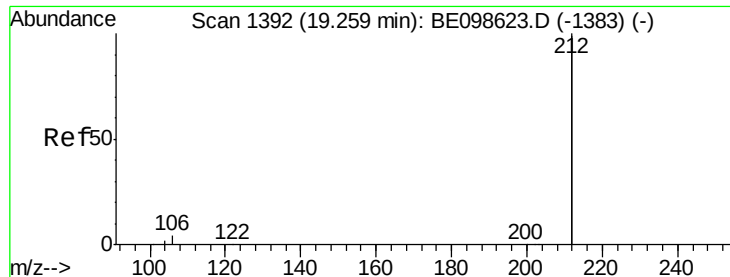


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.363 ng

RT: 19.26 min Scan# 1391

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

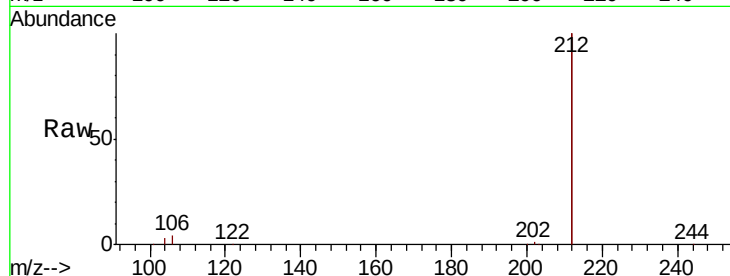
Tot Ion:212 Resp: 36820

Ion Ratio Lower Upper

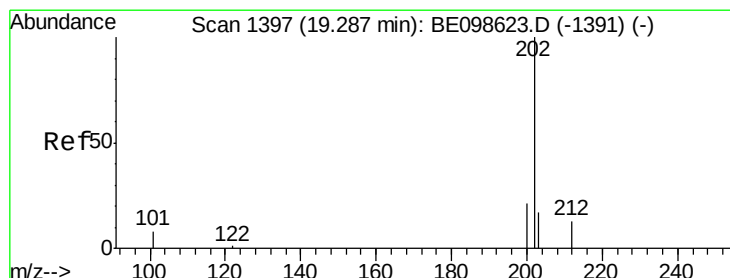
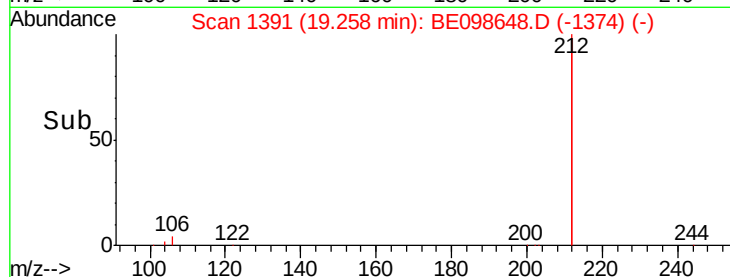
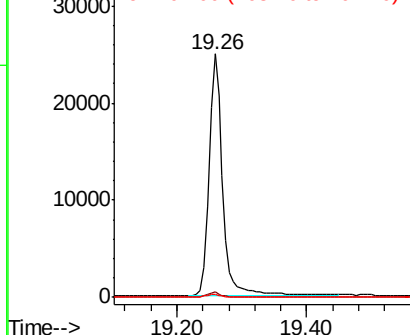
212 100

106 1.9 1.7 2.5

104 1.1 1.0 1.6



Abundance Ion 212.00 (211.70 to 212.70): E  
Ion 106.00 (105.70 to 106.70): E  
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.359 ng

RT: 19.29 min Scan# 1396

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

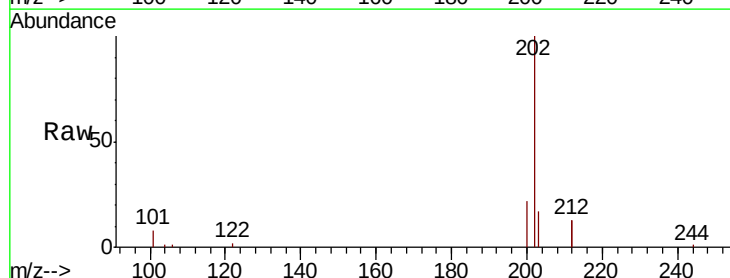
Tgt Ion:202 Resp: 8952

Ion Ratio Lower Upper

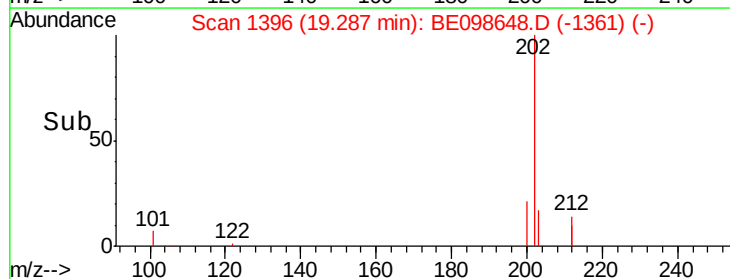
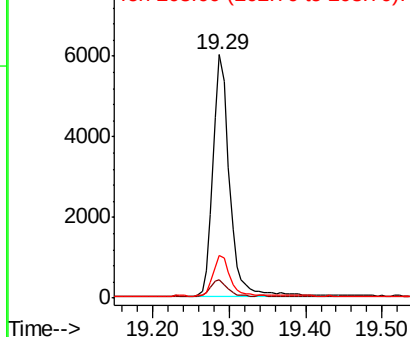
202 100

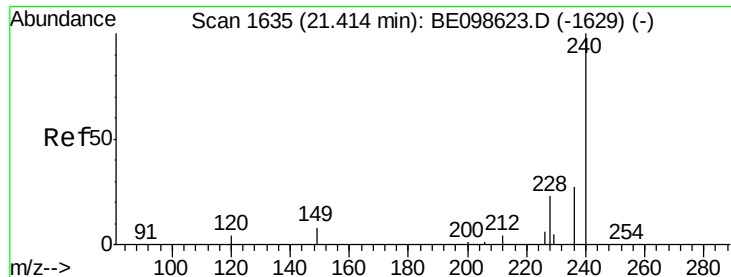
101 7.0 6.7 10.1

203 16.8 13.3 19.9



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

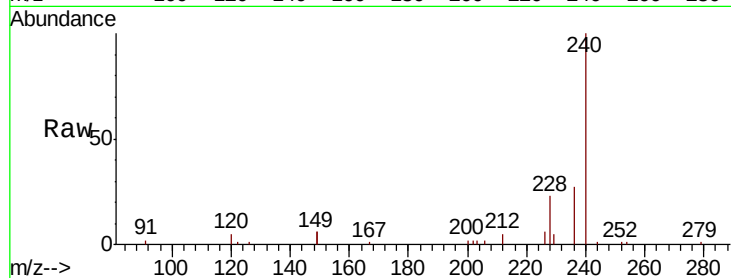




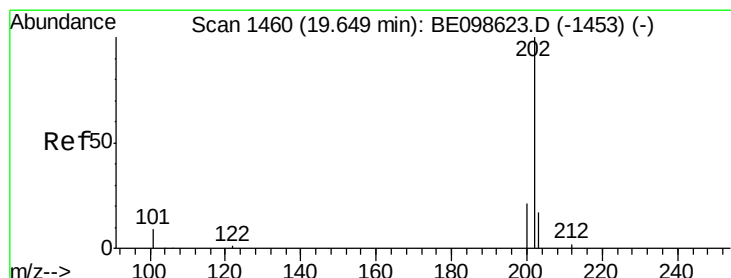
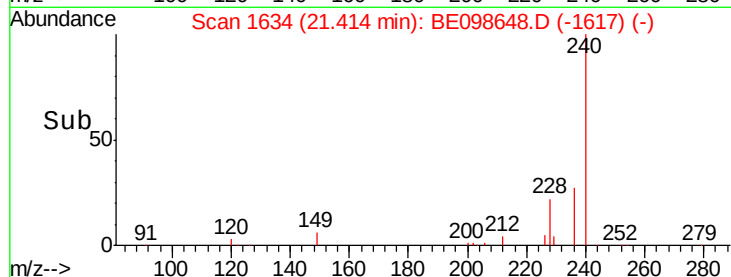
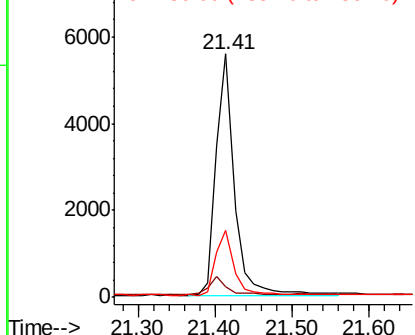
#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.41 min Scan# 1634  
 Delta R.T. -0.00 min  
 Lab File: BE098648.D  
 Acq: 17 Jan 2019 10:32

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116433BSD

Tot Ion:240 Resp: 9274  
 Ion Ratio Lower Upper  
 240 100  
 120 4.5 4.7 7.1#  
 236 27.5 21.9 32.9

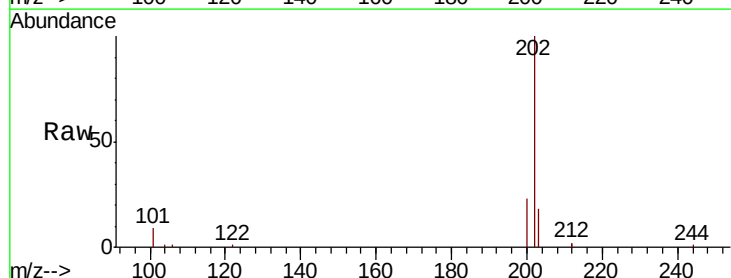


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

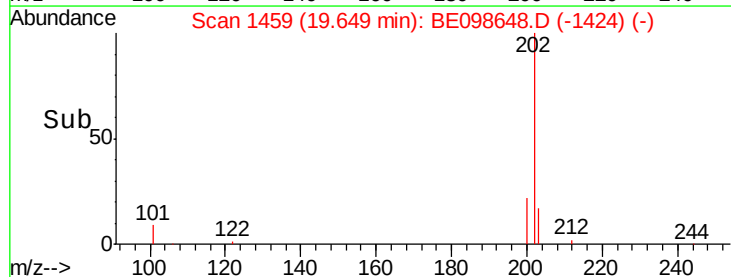
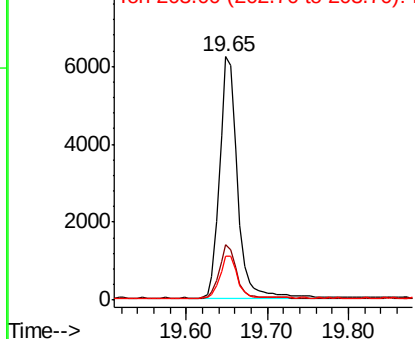


#28  
 Pyrene  
 Concen: 0.368 ng  
 RT: 19.65 min Scan# 1459  
 Delta R.T. -0.00 min  
 Lab File: BE098648.D  
 Acq: 17 Jan 2019 10:32

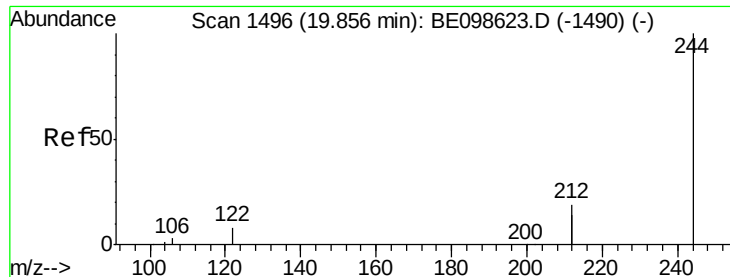
Tgt Ion:202 Resp: 9390  
 Ion Ratio Lower Upper  
 202 100  
 200 21.6 17.0 25.6  
 203 17.3 13.8 20.8



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: 0.373 ng

RT: 19.86 min Scan# 1495

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

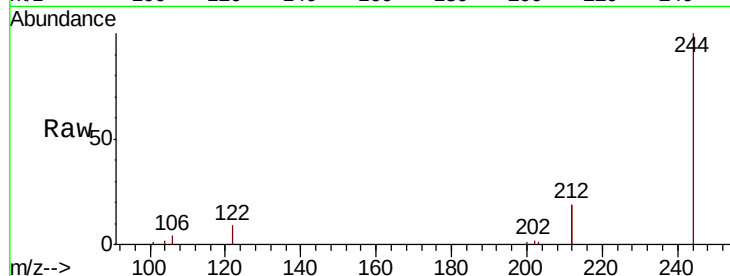
Tot Ion:244 Resp: 7650

Ion Ratio Lower Upper

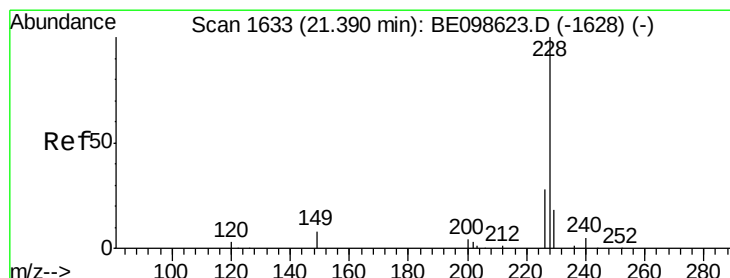
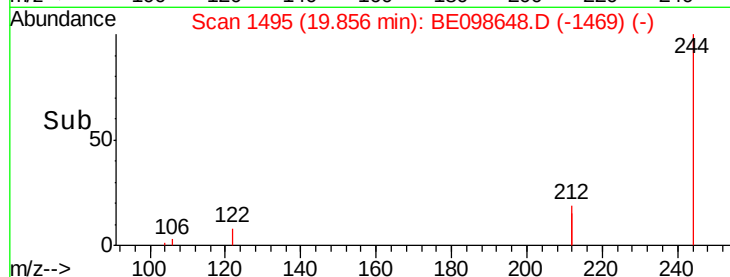
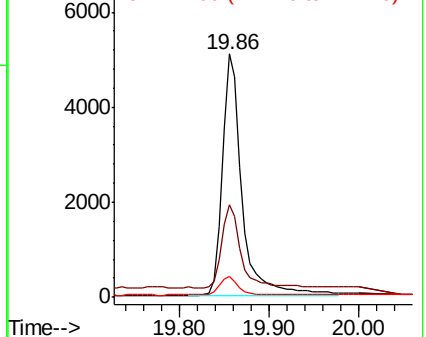
244 100

212 37.8 29.4 44.2

122 8.6 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: 0.372 ng

RT: 21.39 min Scan# 1632

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

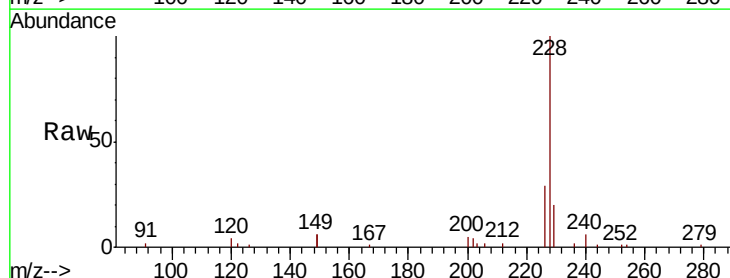
Tgt Ion:228 Resp: 9278

Ion Ratio Lower Upper

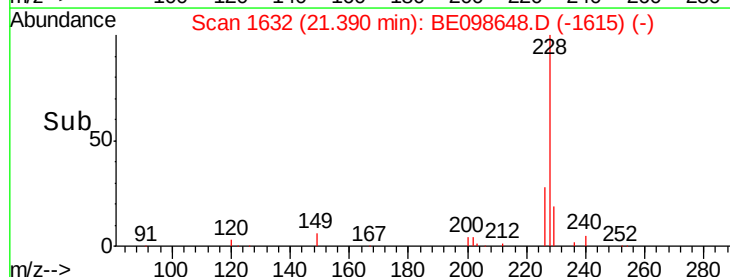
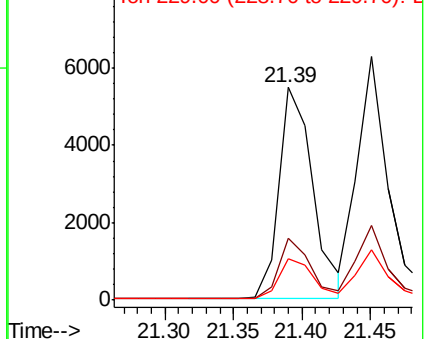
228 100

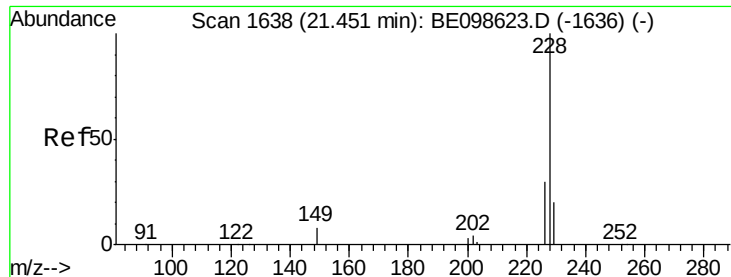
226 28.9 23.0 34.4

229 19.6 15.0 22.6



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: 0.367 ng

RT: 21.45 min Scan# 1637

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

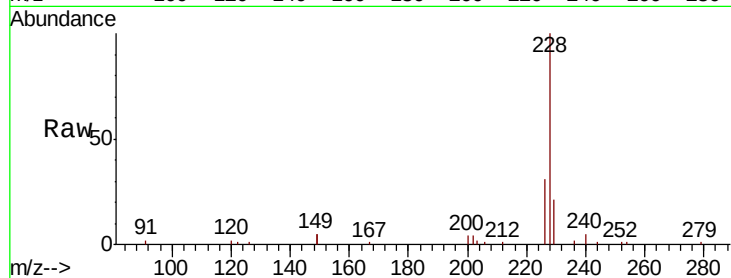
Tot Ion:228 Resp: 9491

Ion Ratio Lower Upper

228 100

226 30.8 24.6 36.8

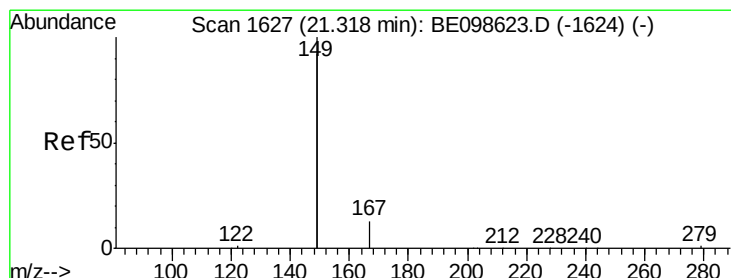
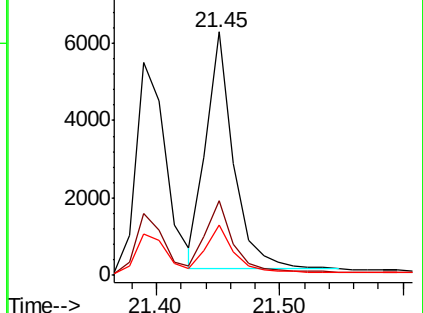
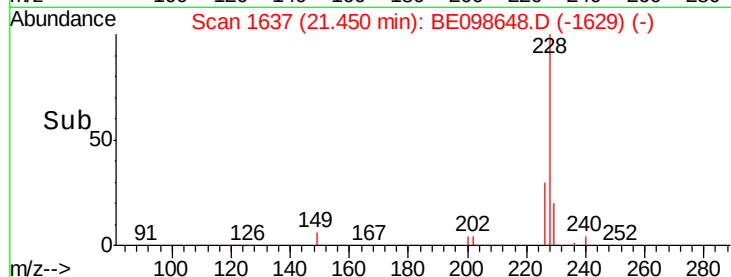
229 20.6 16.4 24.6



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: 0.352 ng

RT: 21.32 min Scan# 1626

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

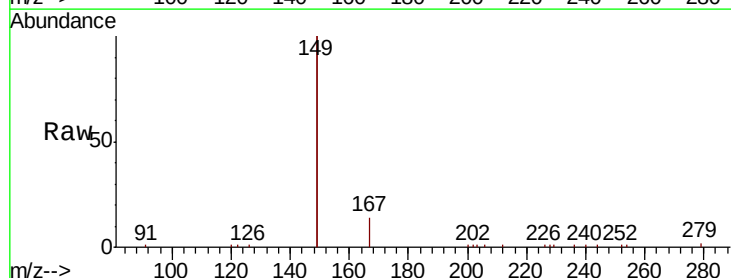
Tgt Ion:149 Resp: 18628

Ion Ratio Lower Upper

149 100

167 6.7 5.4 8.2

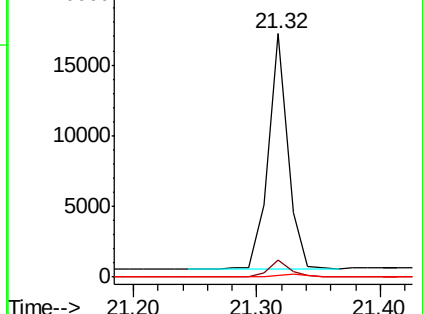
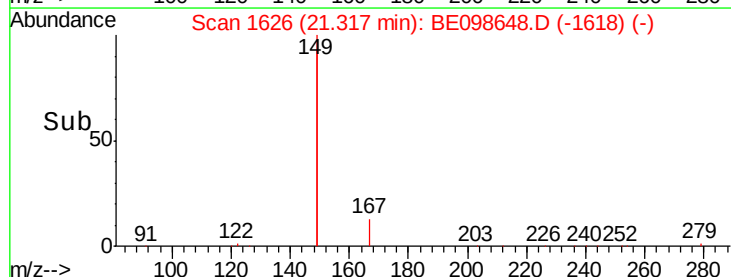
279 1.2 1.0 1.4

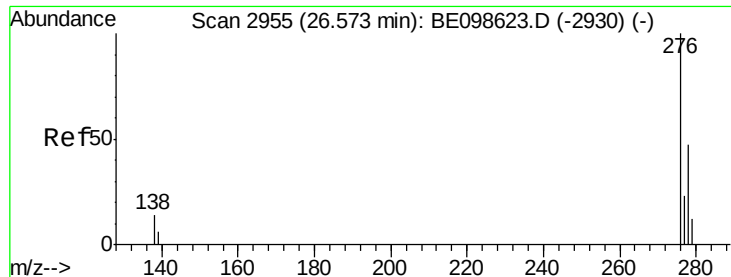


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.387 ng

RT: 26.57 min Scan# 2953

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

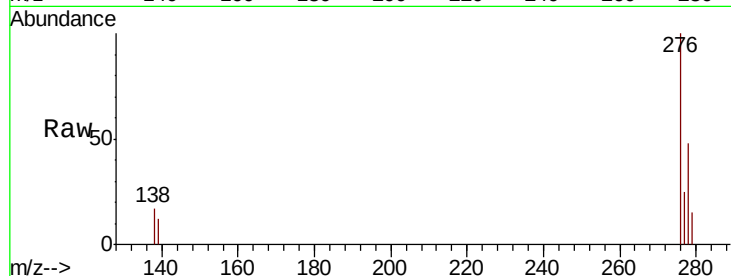
Tot Ion:276 Resp: 10310

Ion Ratio Lower Upper

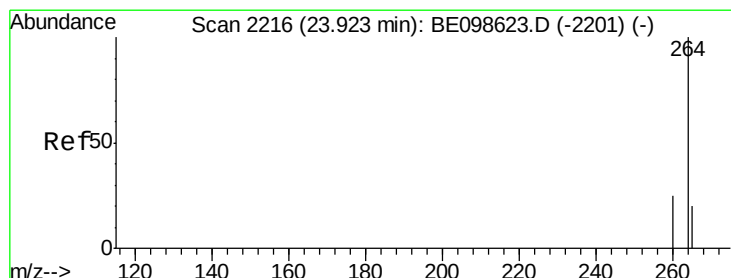
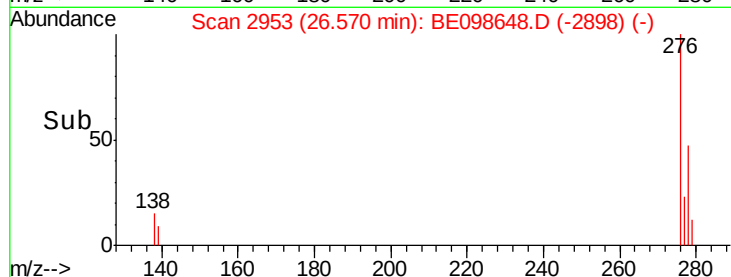
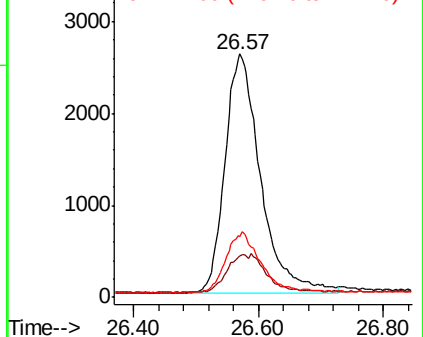
276 100

138 9.8 13.3 19.9#

277 24.0 19.4 29.0



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: 23.92 min Scan# 2215

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

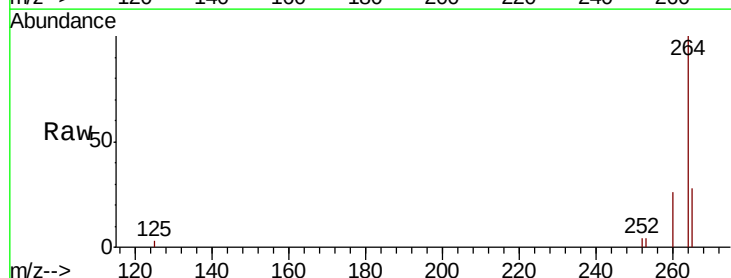
Tgt Ion:264 Resp: 9074

Ion Ratio Lower Upper

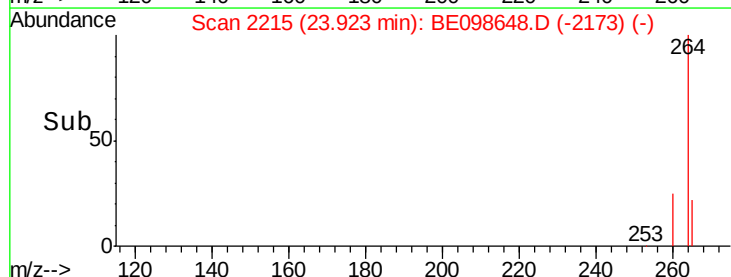
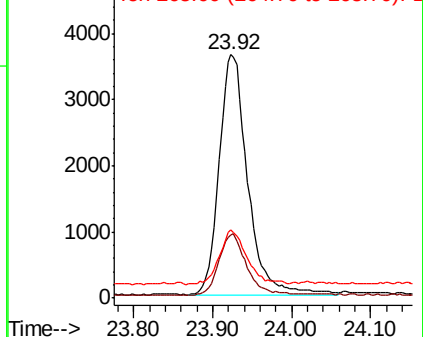
264 100

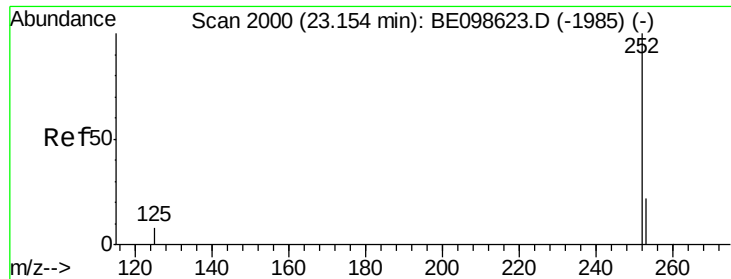
260 25.9 20.5 30.7

265 28.1 22.3 33.5



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: 0.373 ng

RT: 23.15 min Scan# 1999

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

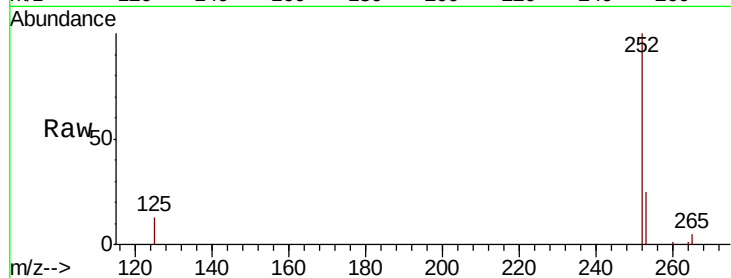
Tot Ion:252 Resp: 9230

Ion Ratio Lower Upper

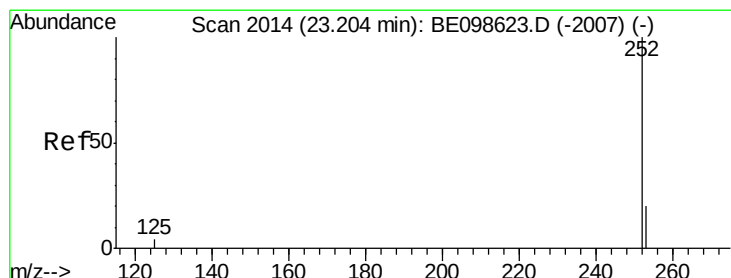
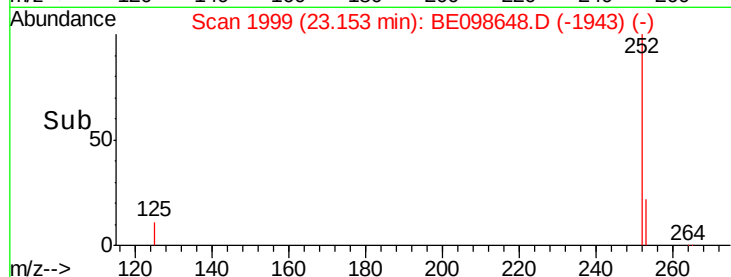
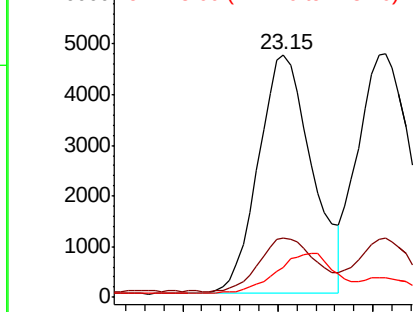
252 100

253 24.6 19.4 29.0

125 12.5 8.2 12.4#



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



#36

Benzo(k)fluoranthene

Concen: 0.369 ng

RT: 23.21 min Scan# 2014

Delta R.T. 0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

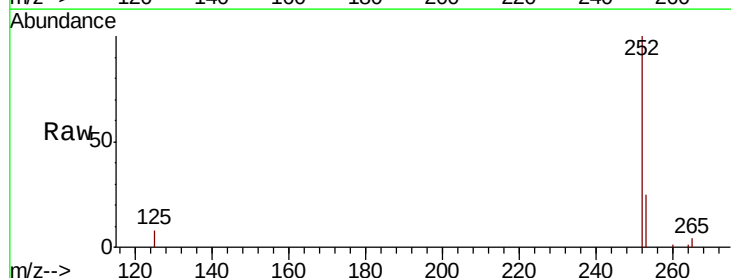
Tgt Ion:252 Resp: 9977

Ion Ratio Lower Upper

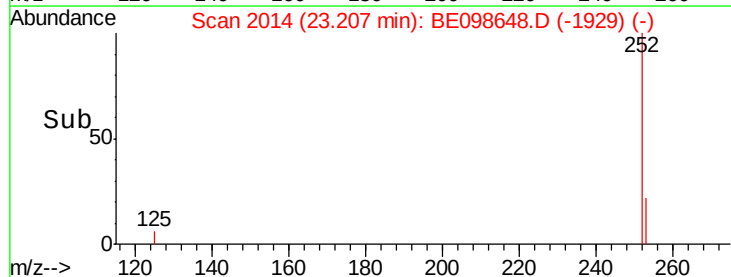
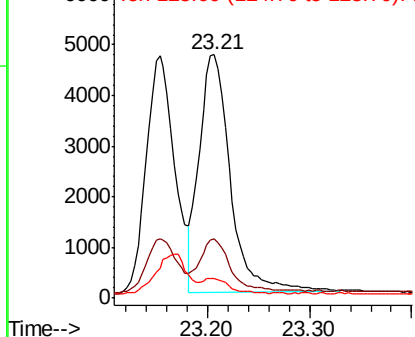
252 100

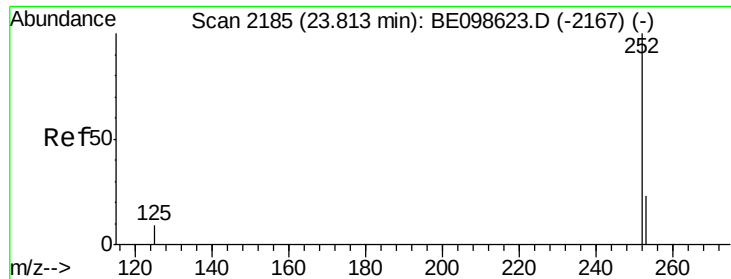
253 24.5 19.0 28.4

125 7.8 7.0 10.4



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





#37

Benzo(a)pyrene

Concen: 0.369 ng

RT: 23.81 min Scan# 2183

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

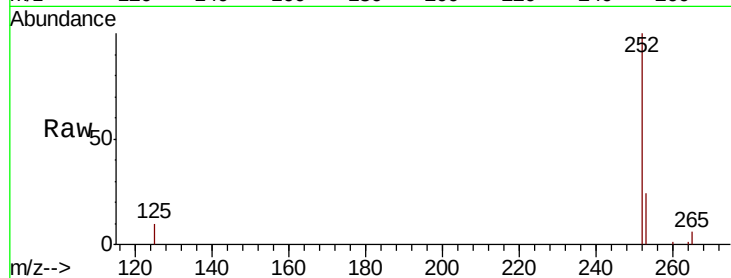
Tot Ion:252 Resp: 8980

Ion Ratio Lower Upper

252 100

253 23.8 21.0 31.4

125 9.8 9.2 13.8

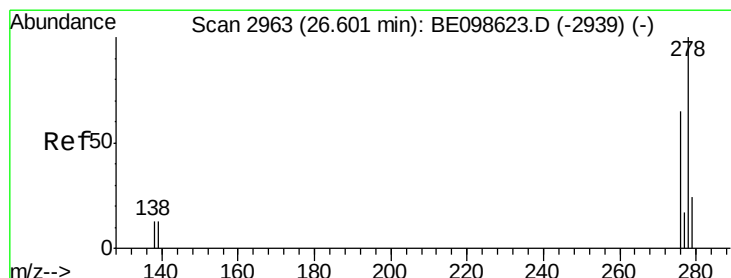
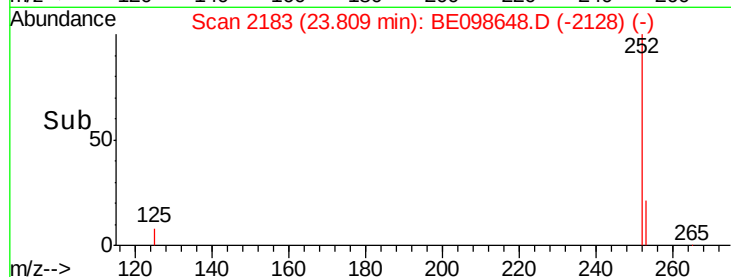
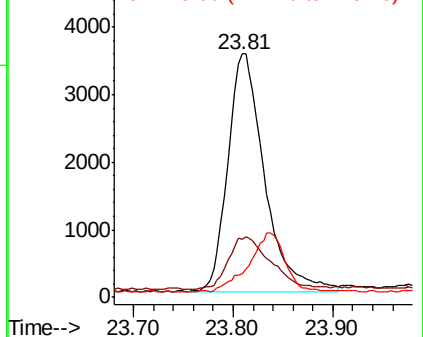


Abundance

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: 0.394 ng

RT: 26.60 min Scan# 2961

Delta R.T. -0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

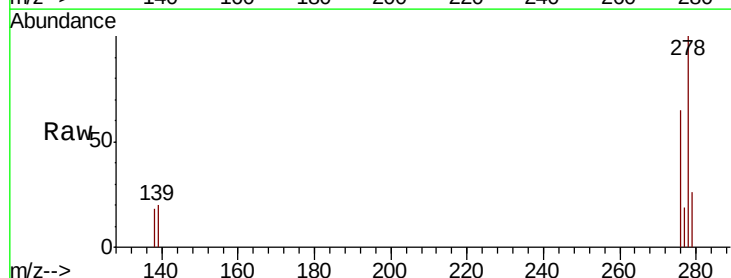
Tgt Ion:278 Resp: 8491

Ion Ratio Lower Upper

278 100

139 20.0 12.7 19.1#

279 26.1 22.0 33.0

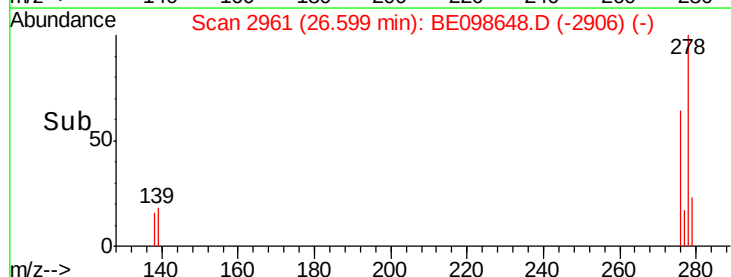
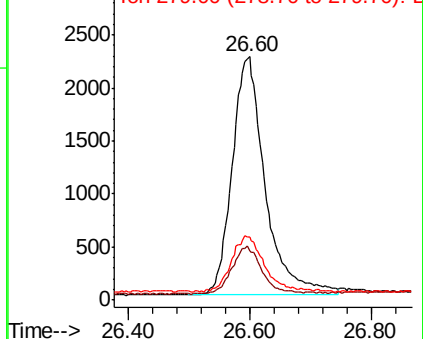


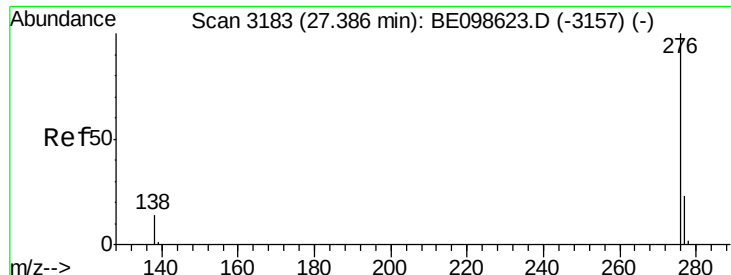
Abundance

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: 0.372 ng

RT: 27.39 min Scan# 3182

Delta R.T. 0.00 min

Lab File: BE098648.D

Acq: 17 Jan 2019 10:32

Instrument :

BNA\_E

ClientSampleId :

PB116433BSD

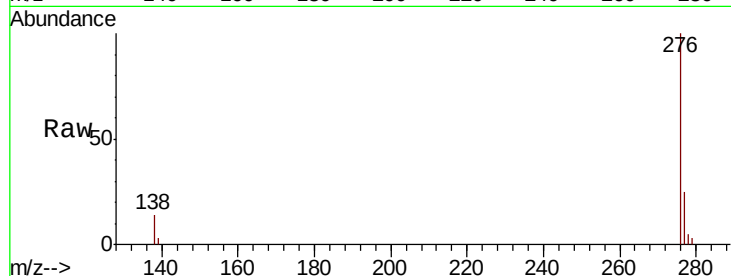
Tot Ion: 276 Resp: 8767

Ion Ratio Lower Upper

276 100

277 24.8 20.3 30.5

138 14.2 13.3 19.9



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

