

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052119\  
 Data File : BE099689.D  
 Acq On : 21 May 2019 14:44  
 Operator : JU/SJ  
 Sample : K2944-01MSD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: May 21 15:17:54 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE052019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 20 19:29:40 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.83  | 152  | 1797     | 0.40 | ng    | 0.01     |
| 7) Naphthalene-d8         | 10.63 | 136  | 5939     | 0.40 | ng    | 0.01     |
| 13) Acenaphthene-d10      | 14.50 | 164  | 3876     | 0.40 | ng    | 0.01     |
| 19) Phenanthrene-d10      | 17.24 | 188  | 10764    | 0.40 | ng    | 0.01     |
| 27) Chrysene-d12          | 21.43 | 240  | 17641    | 0.40 | ng    | 0.01     |
| 34) Perylene-d12          | 23.97 | 264  | 21860    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.39  | 112 | 1793  | 0.39 | ng | 0.01 |
| 5) Phenol-d6                | 6.99  | 99  | 2468  | 0.41 | ng | 0.01 |
| 8) Nitrobenzene-d5          | 8.99  | 82  | 2046  | 0.40 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.24 | 152 | 4163  | 0.41 | ng | 0.01 |
| 14) 2,4,6-Tribromophenol    | 15.98 | 330 | 898   | 0.43 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.11 | 172 | 5313  | 0.36 | ng | 0.01 |
| 25) Fluoranthene-d10        | 19.27 | 212 | 56580 | 0.38 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.87 | 244 | 11980 | 0.38 | ng | 0.00 |

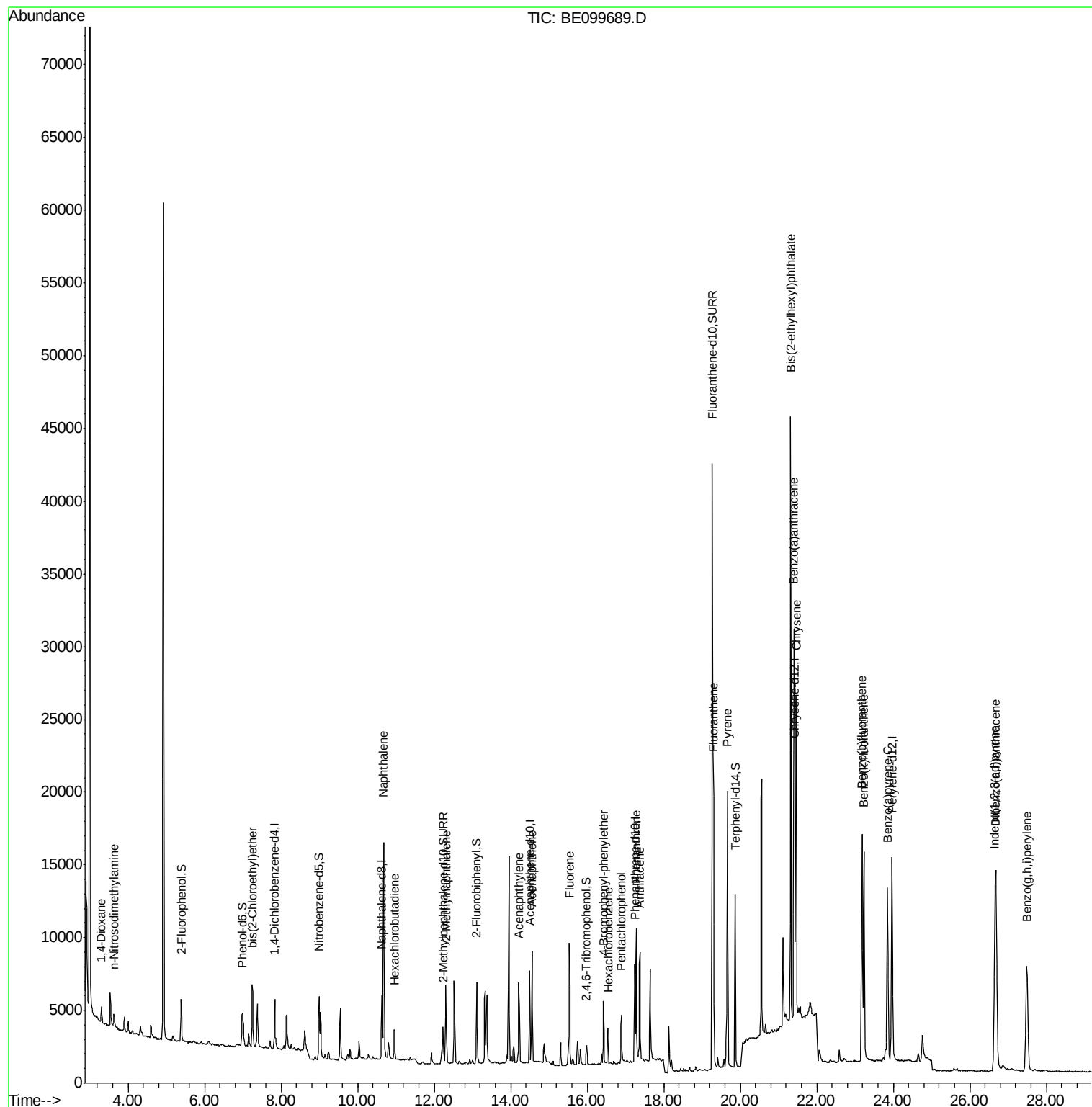
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.30  | 88  | 741   | 0.279  | ng | # 59 |
| 3) n-Nitrosodimethylamine      | 3.62  | 42  | 556   | 0.379  | ng | # 79 |
| 6) bis(2-Chloroethyl)ether     | 7.25  | 93  | 2027  | 0.379  | ng | 99   |
| 9) Naphthalene                 | 10.68 | 128 | 24386 | 0.384  | ng | 100  |
| 10) Hexachlorobutadiene        | 10.96 | 225 | 1677  | 0.359  | ng | 99   |
| 12) 2-Methylnaphthalene        | 12.31 | 142 | 4024  | 0.389  | ng | 100  |
| 16) Acenaphthylene             | 14.21 | 152 | 6913  | 0.383  | ng | 99   |
| 17) Acenaphthene               | 14.55 | 154 | 3821  | 0.377  | ng | 97   |
| 18) Fluorene                   | 15.53 | 166 | 5429  | 0.364  | ng | 100  |
| 20) 4-Bromophenyl-phenylether  | 16.43 | 248 | 2367  | 0.381  | ng | # 88 |
| 21) Hexachlorobenzene          | 16.55 | 284 | 2303  | 0.363  | ng | 99   |
| 22) Pentachlorophenol          | 16.89 | 266 | 2303  | 1.235  | ng | 86   |
| 23) Phenanthrene               | 17.28 | 178 | 10277 | 0.391  | ng | 100  |
| 24) Anthracene                 | 17.38 | 178 | 9681  | 0.406  | ng | 99   |
| 26) Fluoranthene               | 19.30 | 202 | 16804 | 0.404  | ng | 99   |
| 28) Pyrene                     | 19.66 | 202 | 17828 | 0.402  | ng | 99   |
| 30) Benzo(a)anthracene         | 21.40 | 228 | 21837 | 0.436  | ng | 99   |
| 31) Chrysene                   | 21.46 | 228 | 21492 | 0.401  | ng | 97   |
| 32) Bis(2-ethylhexyl)phthalate | 21.32 | 149 | 45062 | 0.780  | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 26.65 | 276 | 24130 | 0.373  | ng | 100  |
| 35) Benzo(b)fluoranthene       | 23.18 | 252 | 21026 | 0.351  | ng | # 93 |
| 36) Benzo(k)fluoranthene       | 23.23 | 252 | 21461 | 0.344  | ng | # 95 |
| 37) Benzo(a)pyrene             | 23.85 | 252 | 20319 | 0.352  | ng | # 95 |
| 38) Dibenzo(a,h)anthracene     | 26.68 | 278 | 20294 | 0.335  | ng | # 95 |
| 39) Benzo(g,h,i)perylene       | 27.49 | 276 | 20095 | 0.329  | ng | 100  |

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

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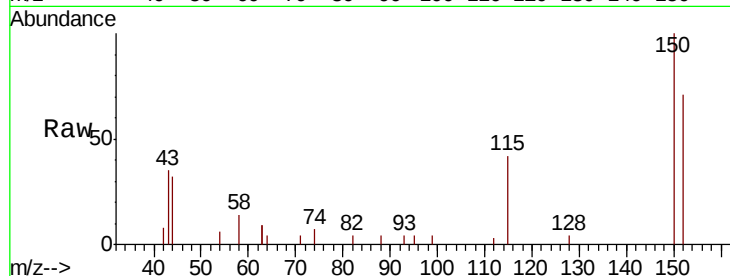


#1

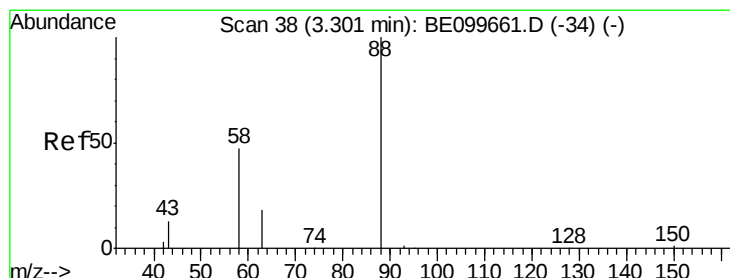
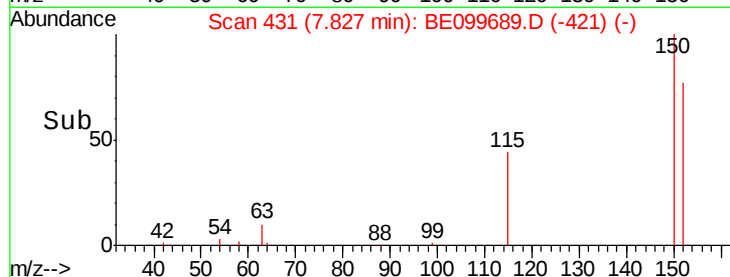
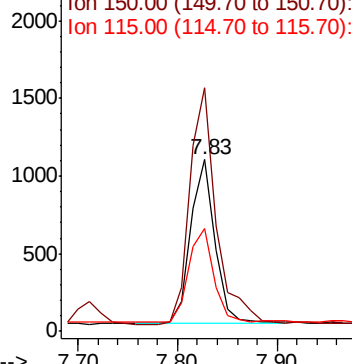
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.83 min Scan# 431  
Delta R.T. 0.01 min  
Lab File: BE099689.D  
Acq: 21 May 2019 14:44

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 1797  
Ion Ratio Lower Upper  
152 100  
150 141.8 109.2 163.8  
115 59.8 43.7 65.5



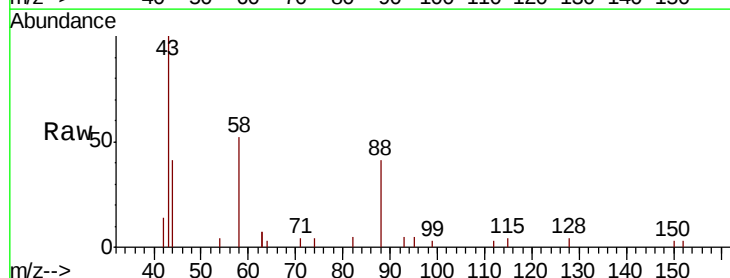
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



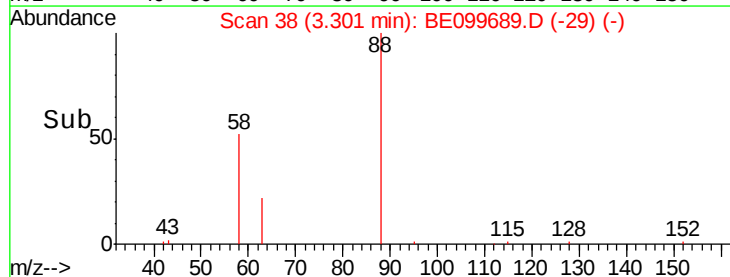
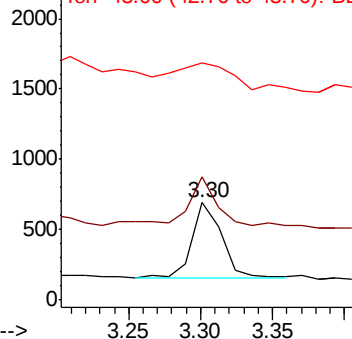
#2

1,4-Dioxane  
Concen: 0.279 ng  
RT: 3.30 min Scan# 38  
Delta R.T. 0.00 min  
Lab File: BE099689.D  
Acq: 21 May 2019 14:44

Tgt Ion: 88 Resp: 741  
Ion Ratio Lower Upper  
88 100  
58 66.9 41.8 62.8#  
43 62.1 15.0 22.4#



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: 0.379 ng

RT: 3.62 min Scan# 66

Delta R.T. -0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

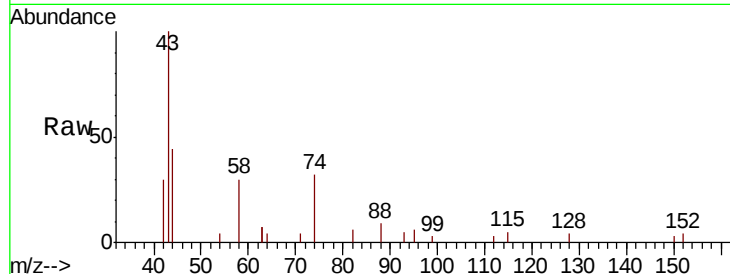
Tot Ion: 42 Resp: 556

Ion Ratio Lower Upper

42 100

74 189.2 129.2 193.8

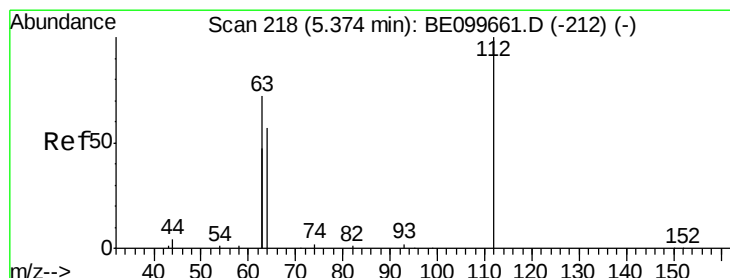
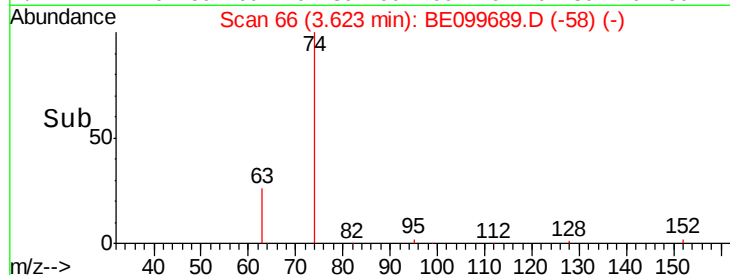
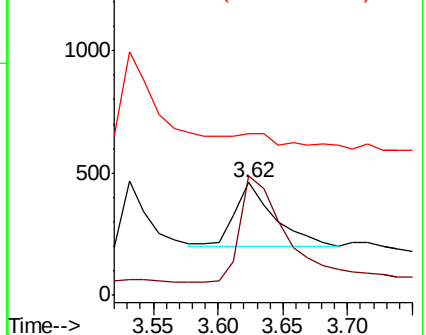
44 0.0 0.0 0.0



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: 0.395 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

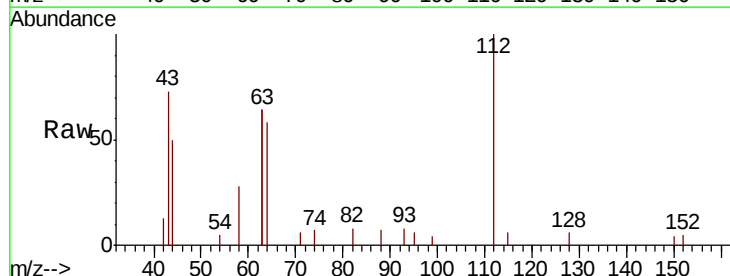
Tgt Ion: 112 Resp: 1793

Ion Ratio Lower Upper

112 100

64 56.8 43.4 65.2

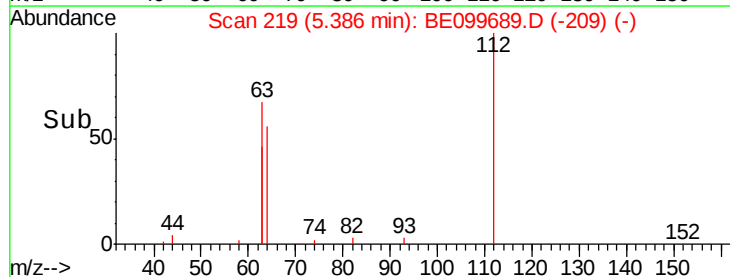
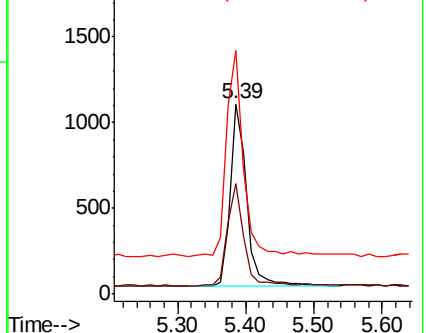
63 116.2 96.9 145.3



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.411 ng

RT: 6.99 min Scan# 358

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

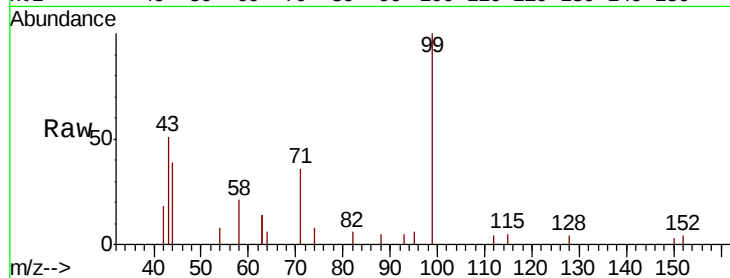
Tot Ion: 99 Resp: 2468

Ion Ratio Lower Upper

99 100

42 18.5 12.2 18.2#

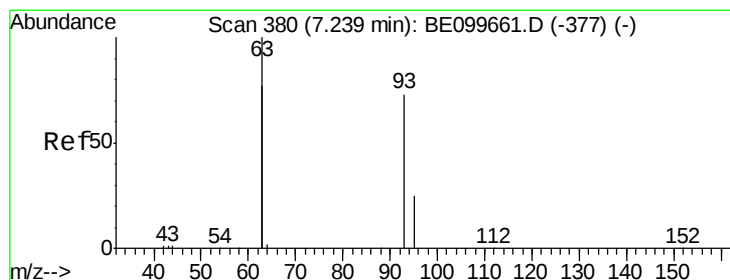
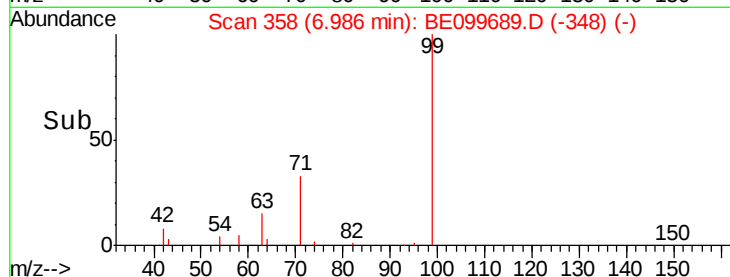
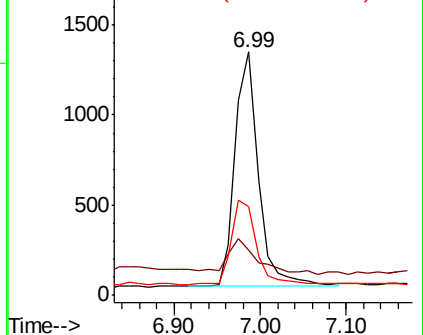
71 37.6 28.9 43.3



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: 0.379 ng

RT: 7.25 min Scan# 381

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

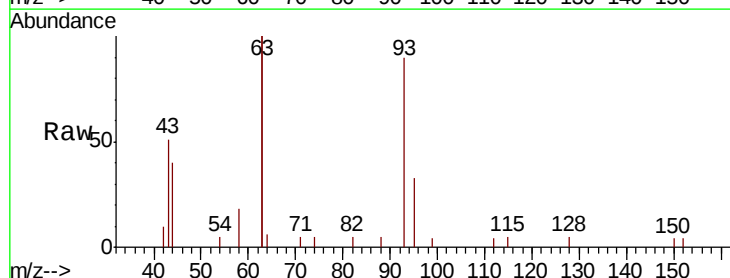
Tgt Ion: 93 Resp: 2027

Ion Ratio Lower Upper

93 100

63 258.8 207.8 311.6

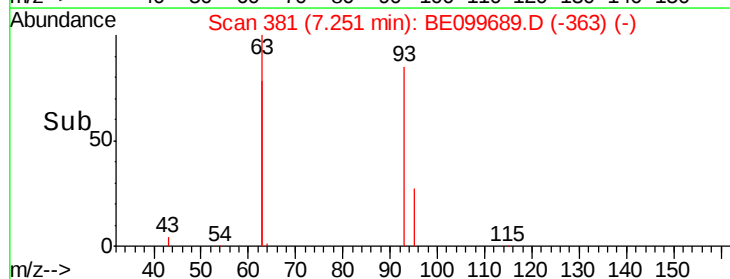
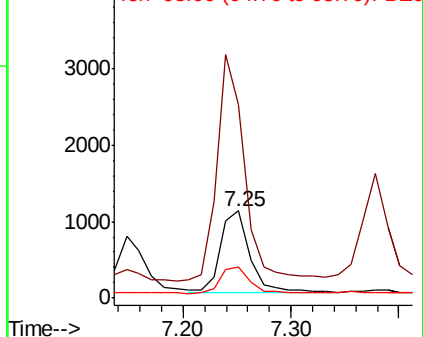
95 33.5 25.9 38.9

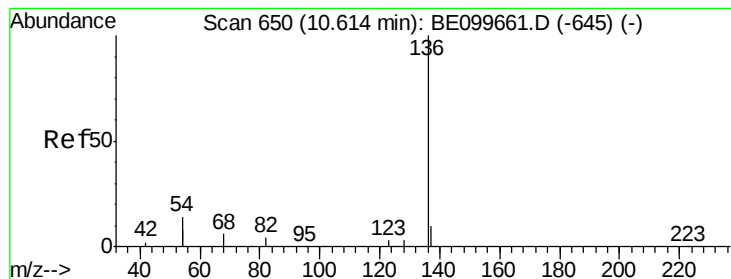


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.63 min Scan# 651

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 5939

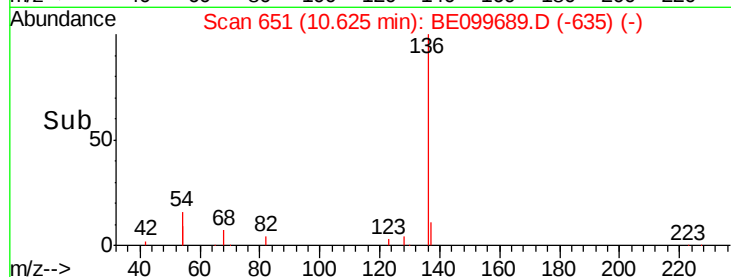
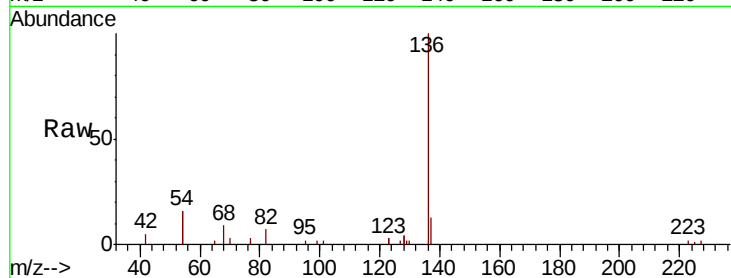
Ion Ratio Lower Upper

136 100

137 12.7 9.0 13.6

54 32.4 22.3 33.5

68 8.6 6.0 9.0

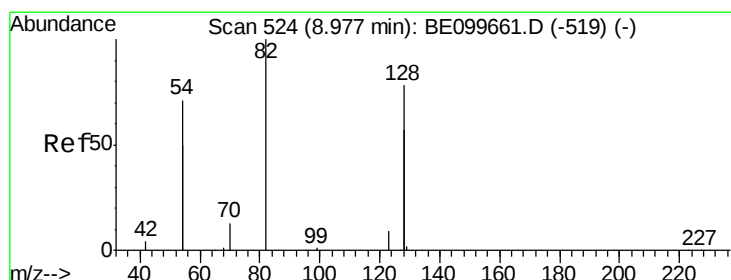
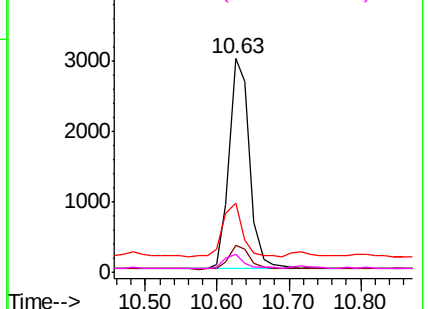


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.398 ng

RT: 8.99 min Scan# 525

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

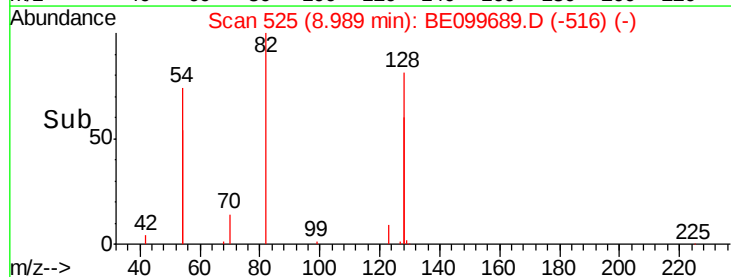
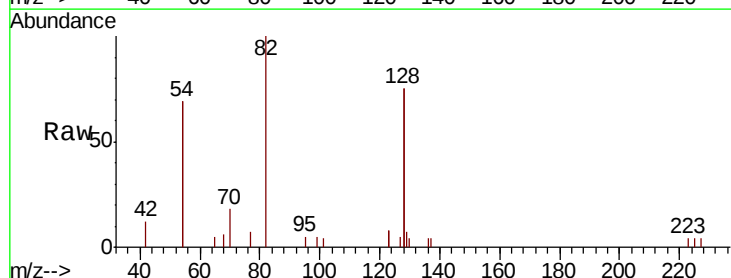
Tgt Ion: 82 Resp: 2046

Ion Ratio Lower Upper

82 100

128 150.8 117.7 176.5

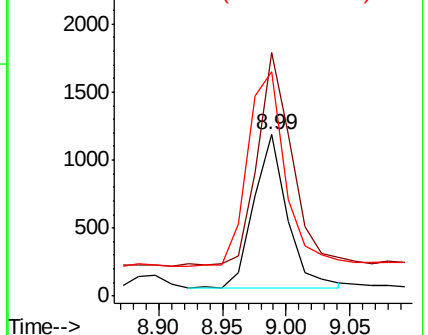
54 138.8 106.6 160.0

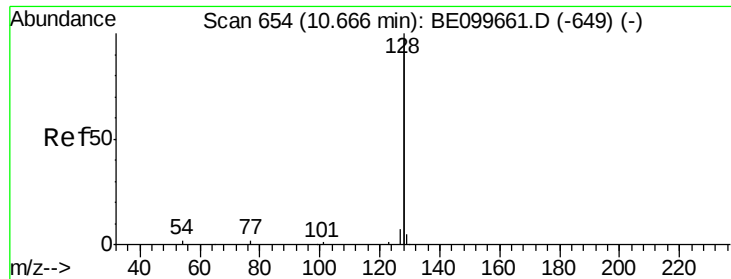


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.384 ng

RT: 10.68 min Scan# 655

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

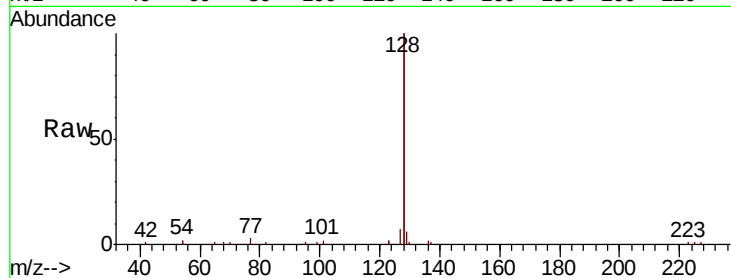
Tot Ion:128 Resp: 24386

Ion Ratio Lower Upper

128 100

129 2.9 2.4 3.6

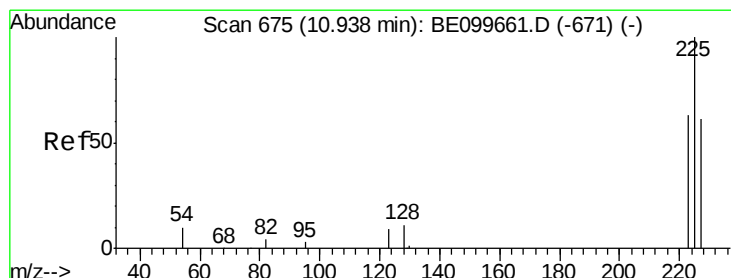
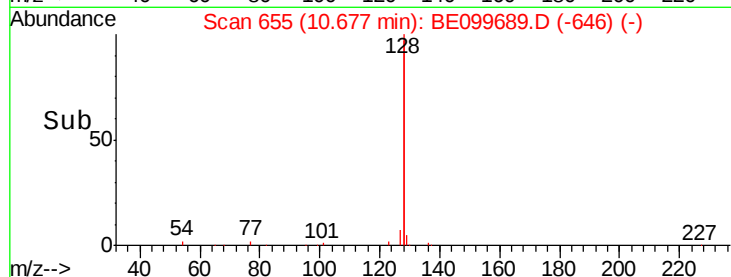
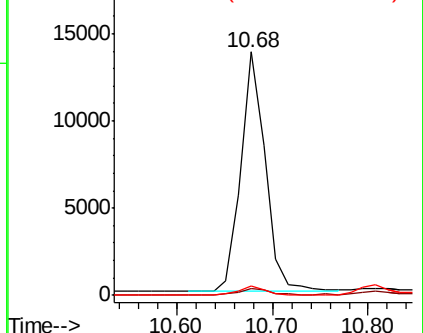
127 3.7 2.9 4.3



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: 0.359 ng

RT: 10.96 min Scan# 677

Delta R.T. 0.02 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

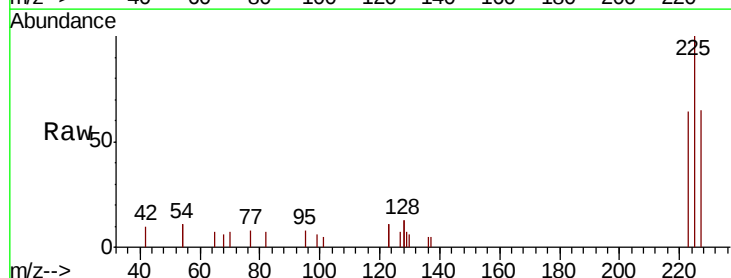
Tgt Ion:225 Resp: 1677

Ion Ratio Lower Upper

225 100

223 64.8 51.8 77.6

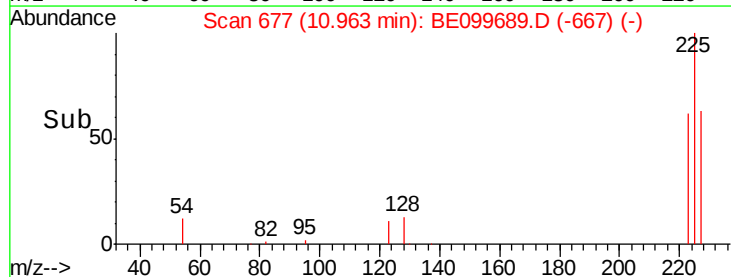
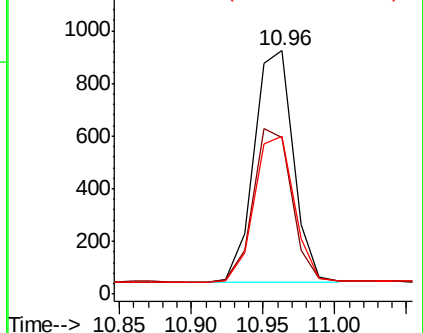
227 63.7 52.6 79.0

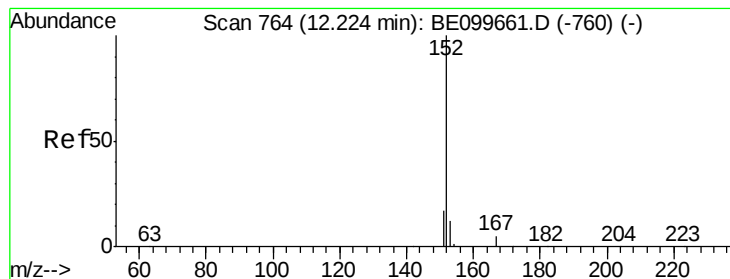


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.406 ng

RT: 12.24 min Scan# 765

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

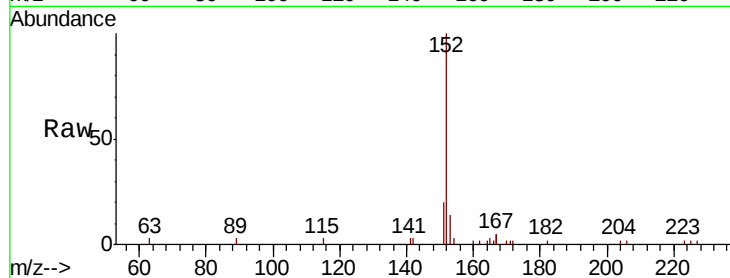
ClientSampleId :

Tot Ion:152 Resp: 4163

Ion Ratio Lower Upper

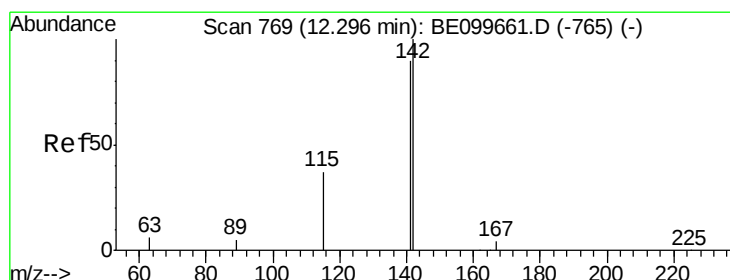
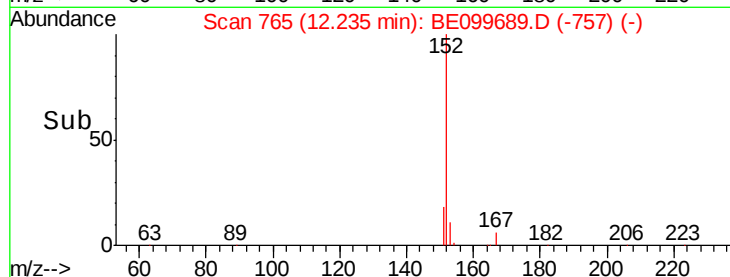
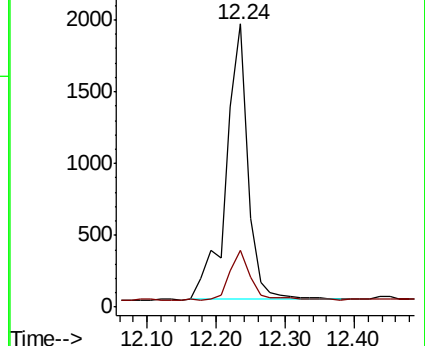
152 100

151 16.9 15.0 22.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.389 ng

RT: 12.31 min Scan# 770

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

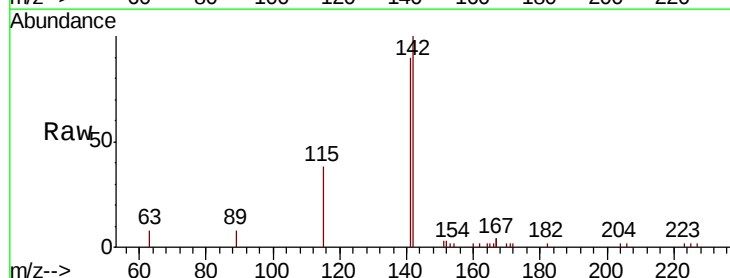
Tgt Ion:142 Resp: 4024

Ion Ratio Lower Upper

142 100

141 89.8 72.0 108.0

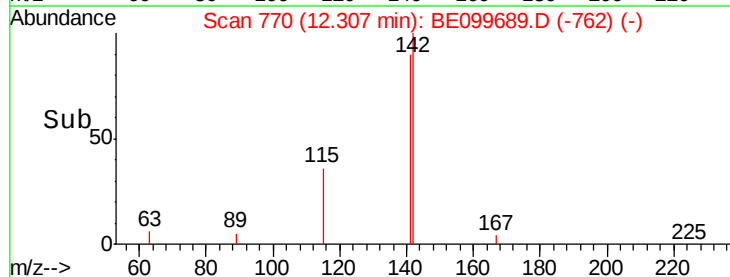
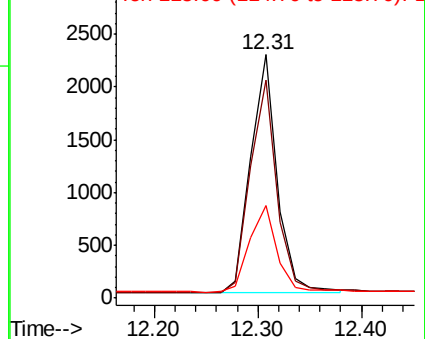
115 38.1 31.0 46.4



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

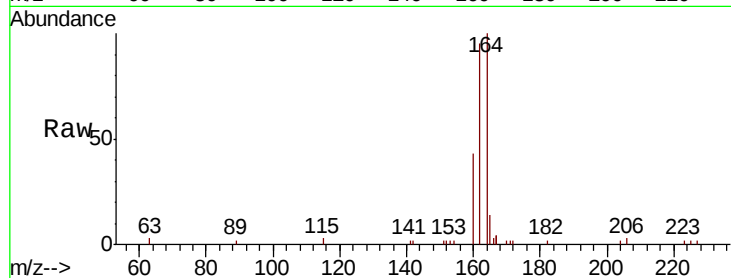




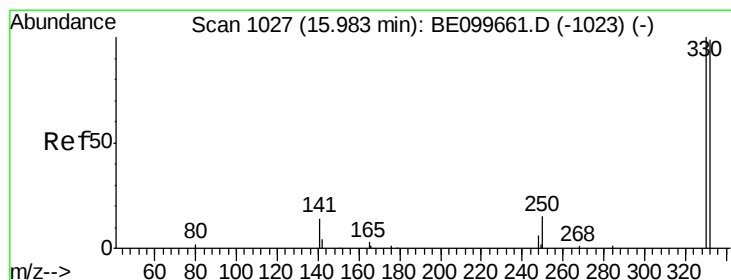
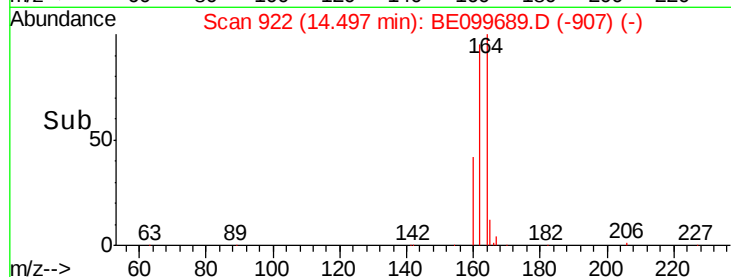
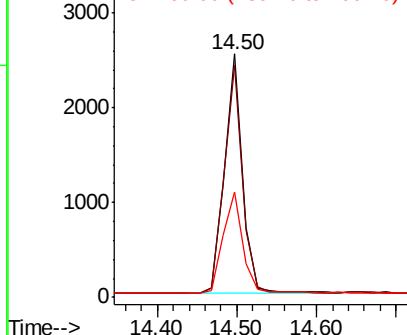
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.50 min Scan# 922  
 Delta R.T. 0.01 min  
 Lab File: BE099689.D  
 Acq: 21 May 2019 14:44

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:164 Resp: 3876  
 Ion Ratio Lower Upper  
 164 100  
 162 95.1 76.5 114.7  
 160 43.3 37.4 56.2

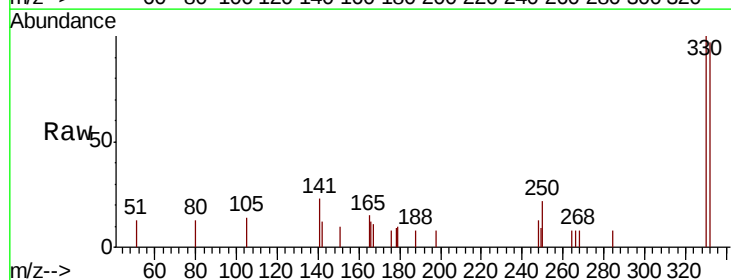


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

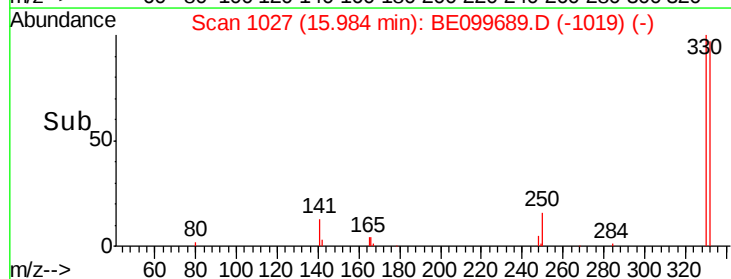
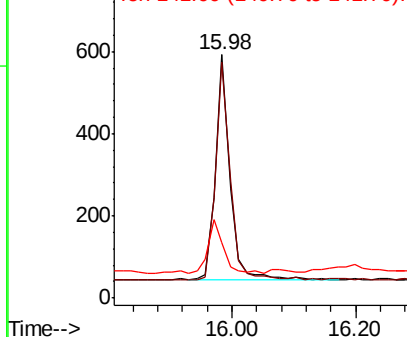


#14  
 2,4,6-Tribromophenol  
 Concen: 0.434 ng  
 RT: 15.98 min Scan# 1027  
 Delta R.T. 0.00 min  
 Lab File: BE099689.D  
 Acq: 21 May 2019 14:44

Tgt Ion:330 Resp: 898  
 Ion Ratio Lower Upper  
 330 100  
 332 99.0 77.3 115.9  
 141 23.4 18.9 28.3



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

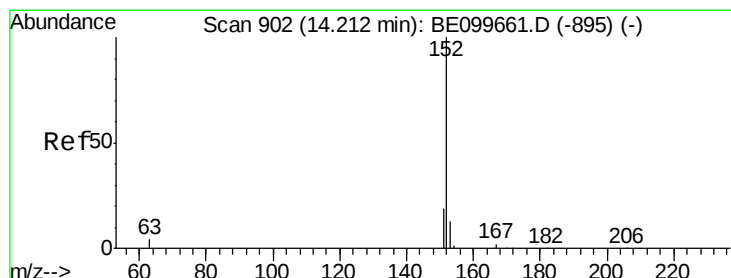
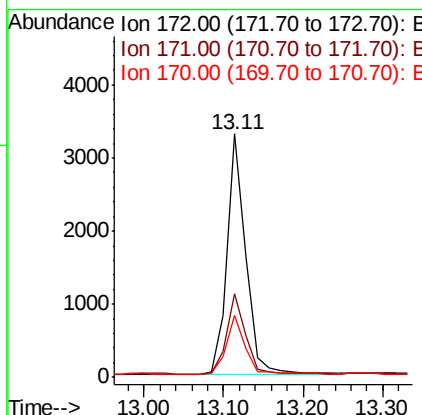
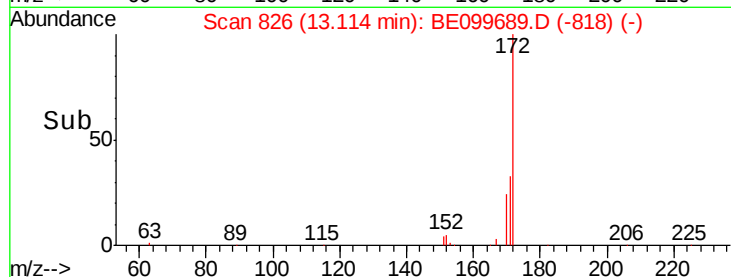
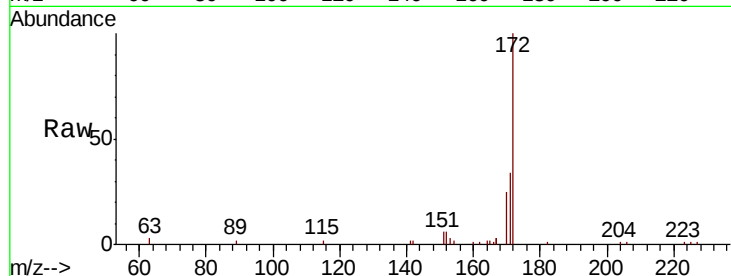




#15  
2-Fluorobiphenyl  
Concen: 0.361 ng  
RT: 13.11 min Scan# 826  
Delta R.T. 0.01 min  
Lab File: BE099689.D  
Acq: 21 May 2019 14:44

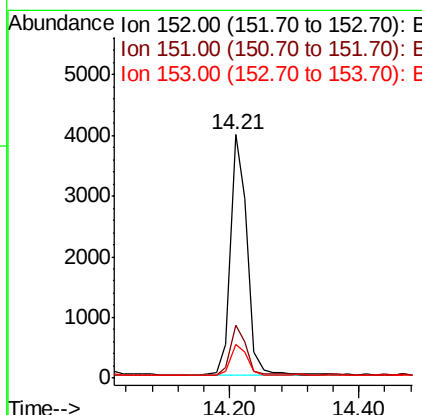
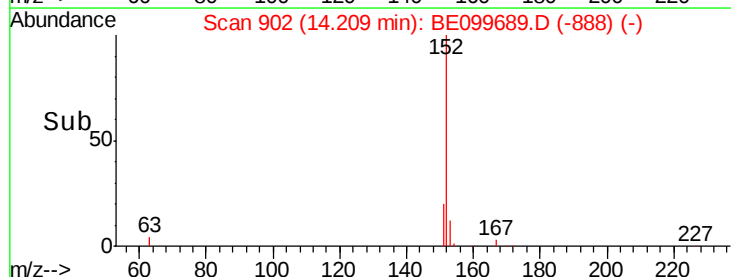
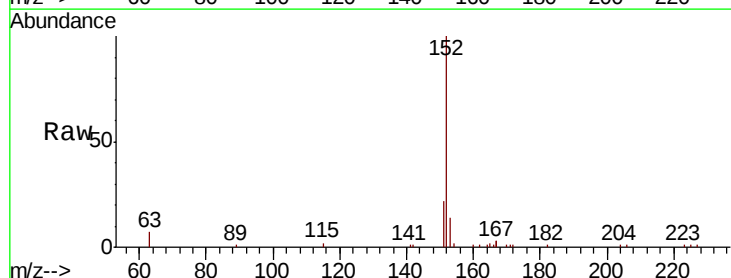
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 5313  
Ion Ratio Lower Upper  
172 100  
171 34.3 28.7 43.1  
170 25.4 20.9 31.3



#16  
Acenaphthylene  
Concen: 0.383 ng  
RT: 14.21 min Scan# 902  
Delta R.T. -0.00 min  
Lab File: BE099689.D  
Acq: 21 May 2019 14:44

Tgt Ion:152 Resp: 6913  
Ion Ratio Lower Upper  
152 100  
151 20.2 15.9 23.9  
153 12.9 10.6 16.0

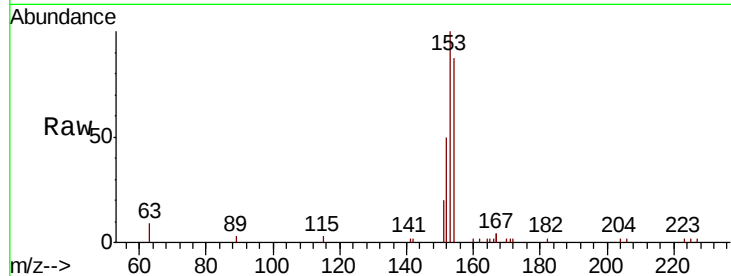




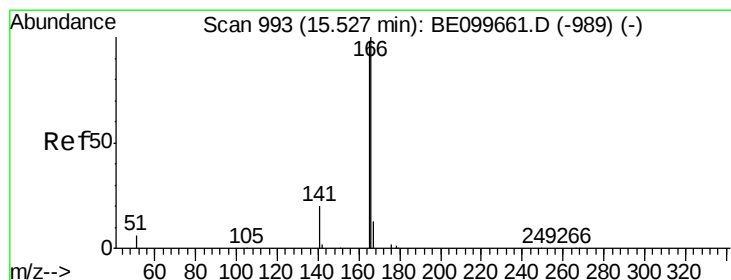
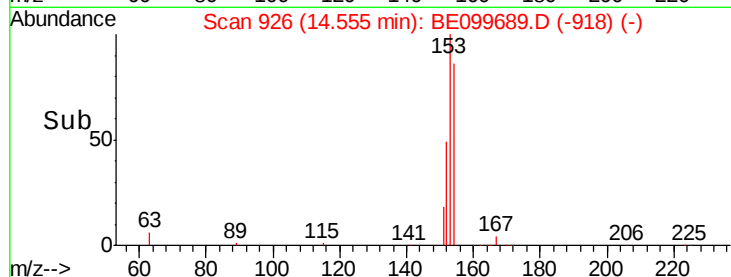
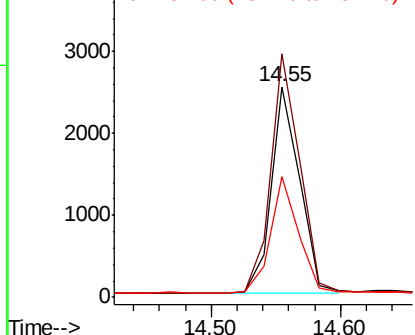
#17  
Acenaphthene  
Concen: 0.377 ng  
RT: 14.55 min Scan# 926  
Delta R.T. 0.01 min  
Lab File: BE099689.D  
Acq: 21 May 2019 14:44

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:154 Resp: 3821  
Ion Ratio Lower Upper  
154 100  
153 118.6 91.8 137.6  
152 55.8 46.0 69.0

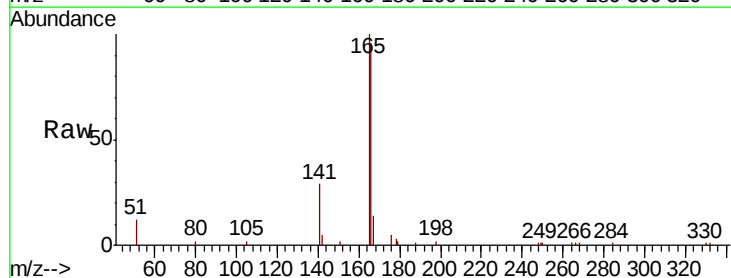


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

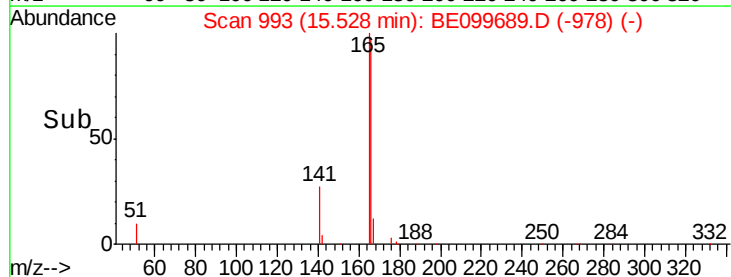
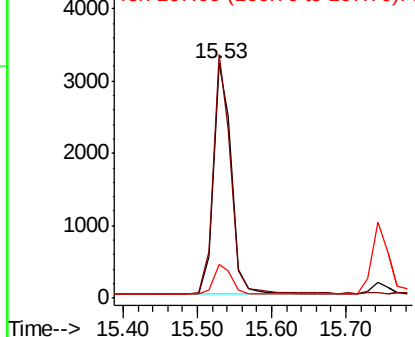


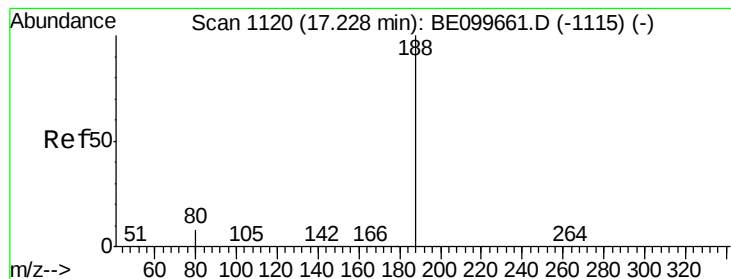
#18  
Fluorene  
Concen: 0.364 ng  
RT: 15.53 min Scan# 993  
Delta R.T. 0.00 min  
Lab File: BE099689.D  
Acq: 21 May 2019 14:44

Tgt Ion:166 Resp: 5429  
Ion Ratio Lower Upper  
166 100  
165 100.4 80.3 120.5  
167 12.8 10.6 16.0



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: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

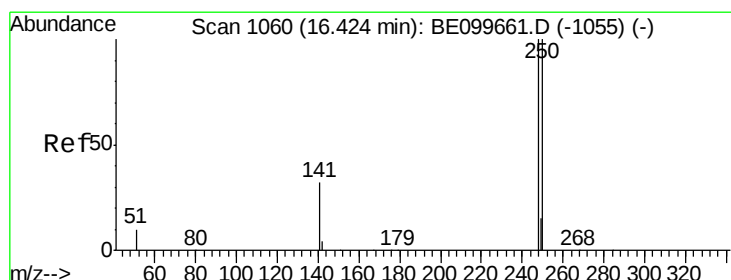
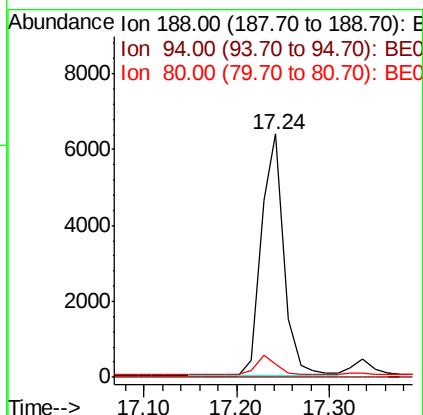
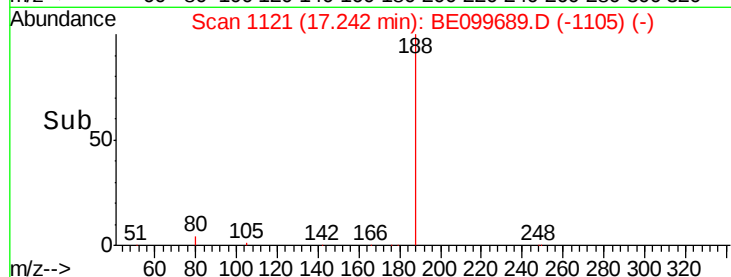
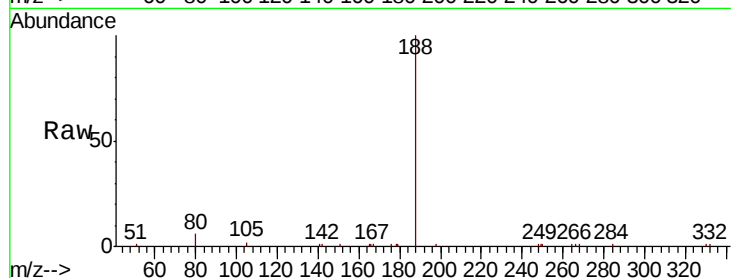
Tot Ion:188 Resp: 10764

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.6 6.7 10.1#



#20

4-Bromophenyl-phenylether

Concen: 0.381 ng

RT: 16.43 min Scan# 1060

Delta R.T. 0.00 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

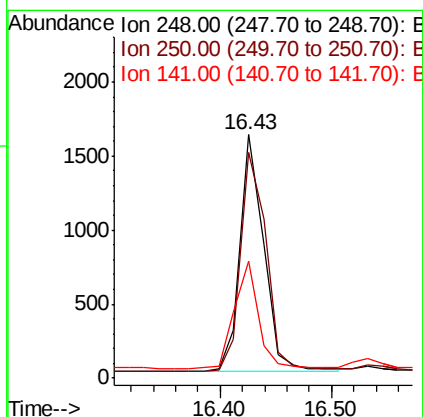
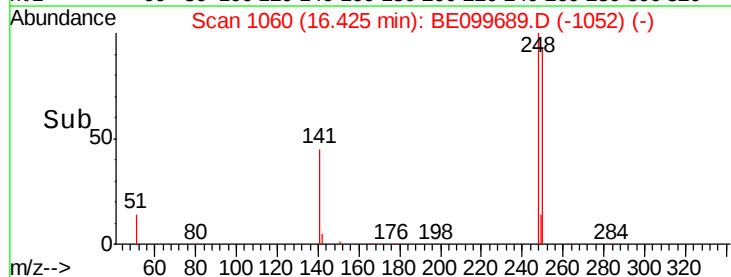
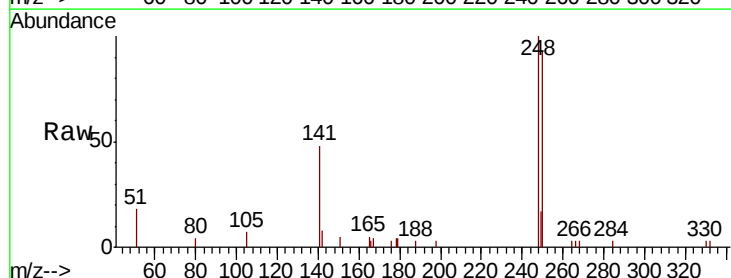
Tgt Ion:248 Resp: 2367

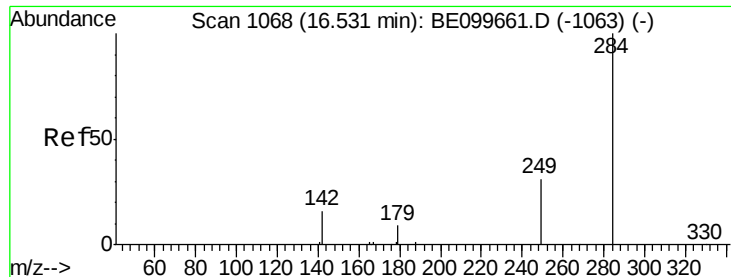
Ion Ratio Lower Upper

248 100

250 92.9 79.8 119.8

141 48.2 27.0 40.6#





#21

Hexachlorobenzene

Concen: 0.363 ng

RT: 16.55 min Scan# 1069

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

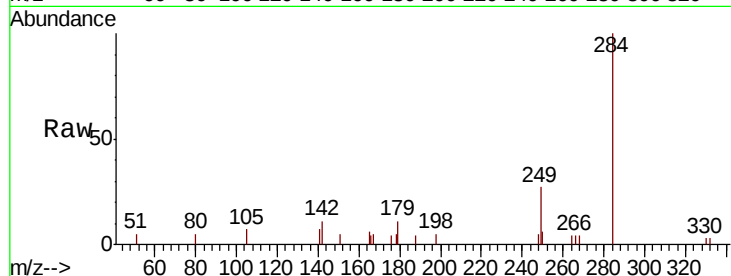
Tot Ion:284 Resp: 2303

Ion Ratio Lower Upper

284 100

142 22.2 17.8 26.6

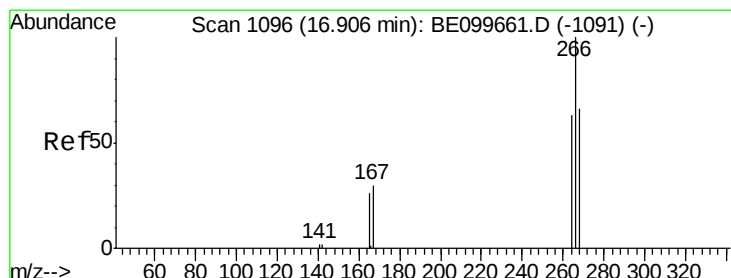
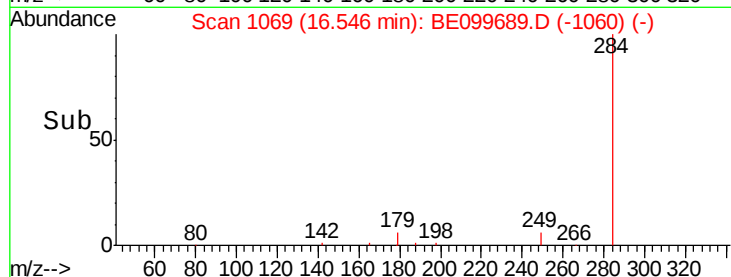
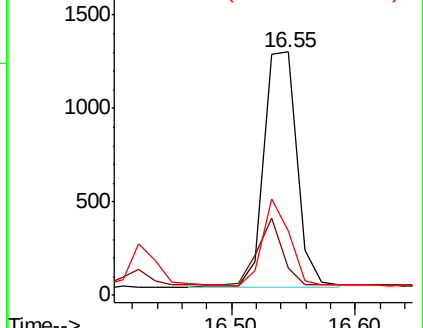
249 29.9 24.8 37.2



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: 1.235 ng

RT: 16.89 min Scan# 1095

Delta R.T. -0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

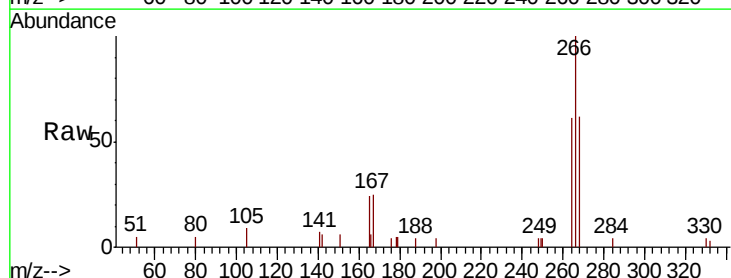
Tgt Ion:266 Resp: 2303

Ion Ratio Lower Upper

266 100

264 61.4 57.2 85.8

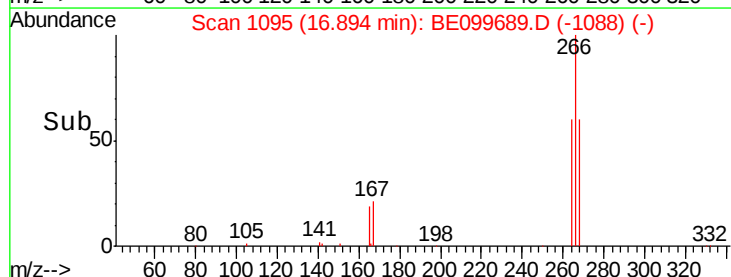
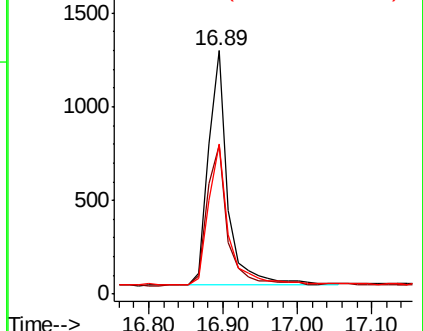
268 61.8 60.5 90.7



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: 0.391 ng

RT: 17.28 min Scan# 1124

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

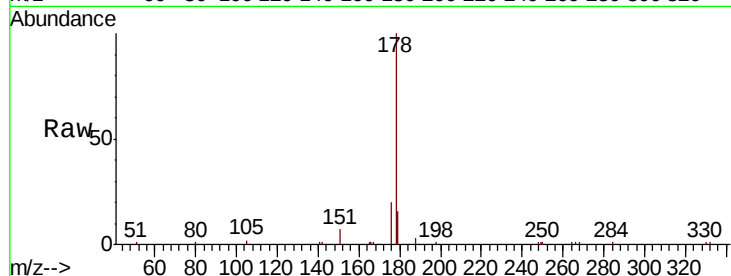
Tot Ion:178 Resp: 10277

Ion Ratio Lower Upper

178 100

176 19.4 15.6 23.4

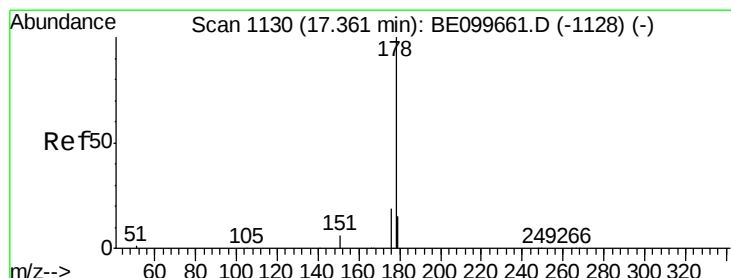
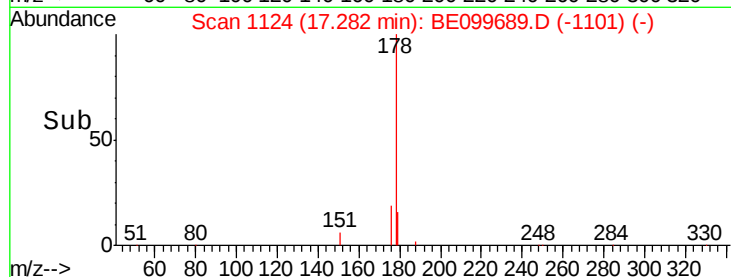
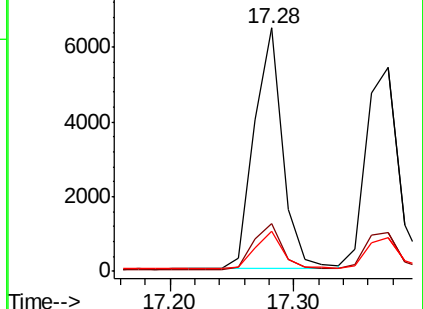
179 15.3 12.2 18.4



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: 0.406 ng

RT: 17.38 min Scan# 1131

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

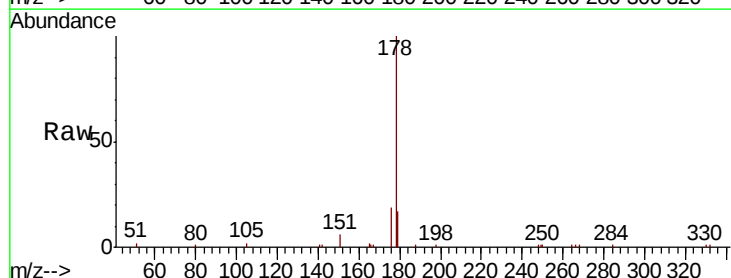
Tgt Ion:178 Resp: 9681

Ion Ratio Lower Upper

178 100

176 19.0 14.7 22.1

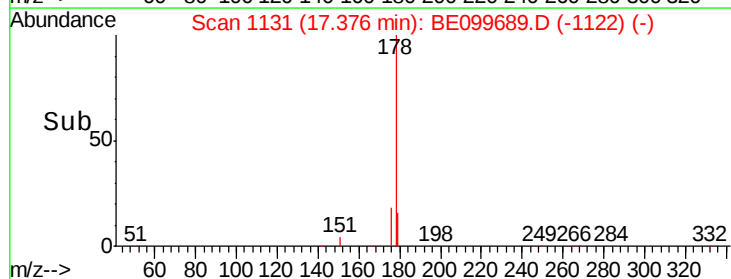
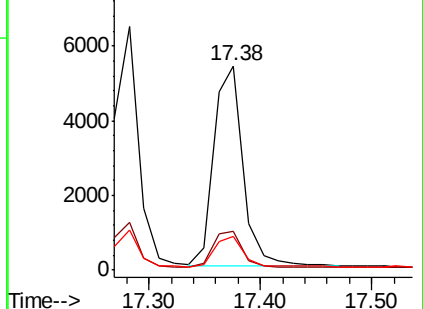
179 15.4 12.0 18.0



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: 0.385 ng

RT: 19.27 min Scan# 1393

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

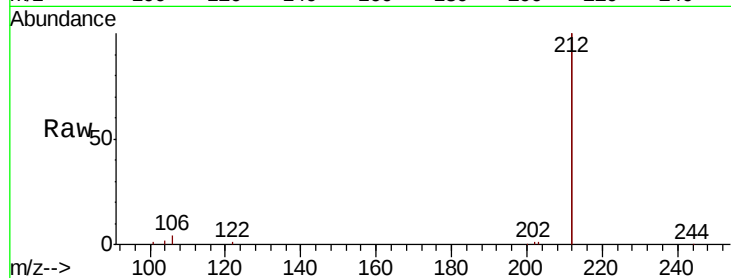
Tot Ion:212 Resp: 56580

Ion Ratio Lower Upper

212 100

106 1.9 1.4 2.2

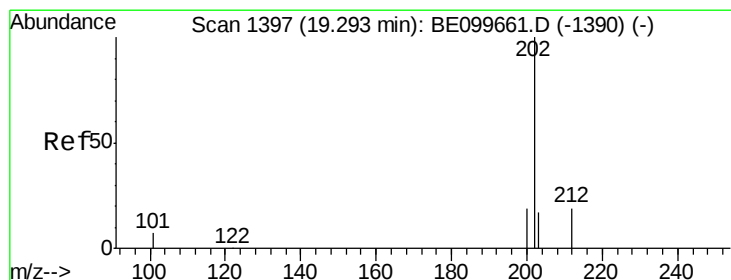
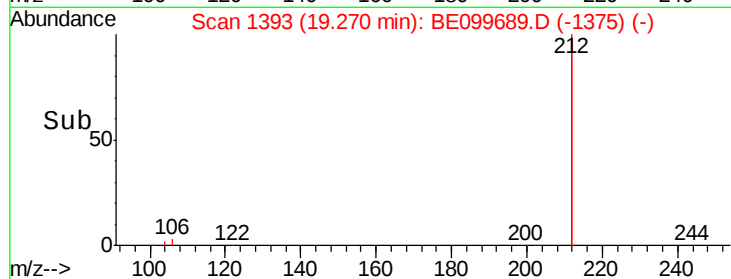
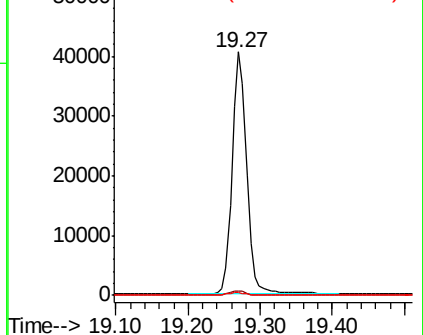
104 1.1 0.8 1.2



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: 0.404 ng

RT: 19.30 min Scan# 1398

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

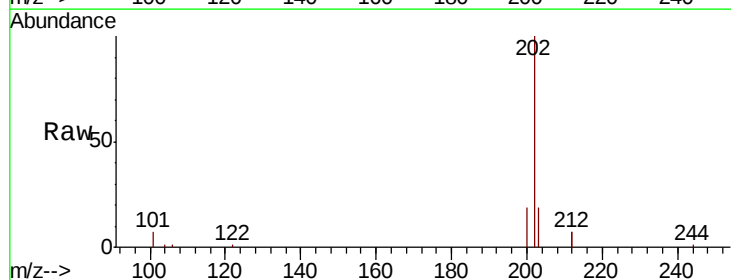
Tgt Ion:202 Resp: 16804

Ion Ratio Lower Upper

202 100

101 7.0 5.2 7.8

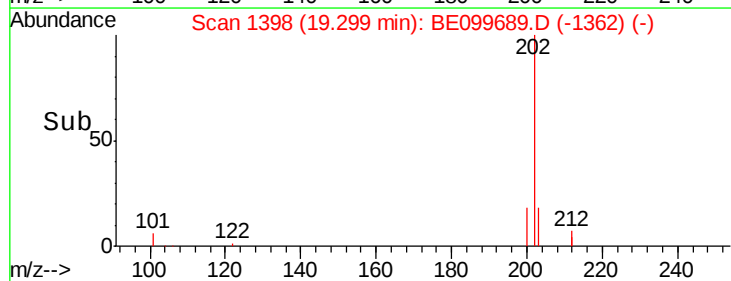
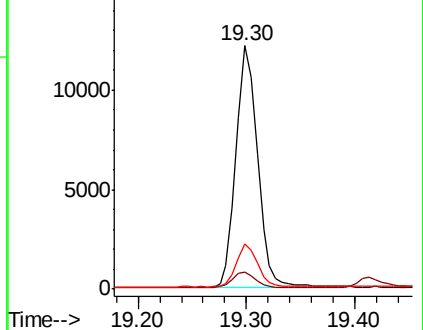
203 17.5 13.8 20.6



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: 21.43 min Scan# 1635

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

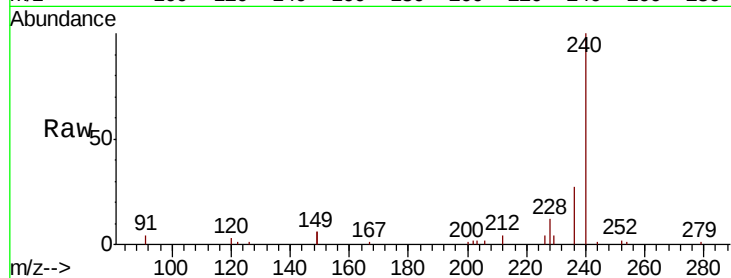
Tot Ion:240 Resp: 17641

Ion Ratio Lower Upper

240 100

120 3.3 5.4 8.0#

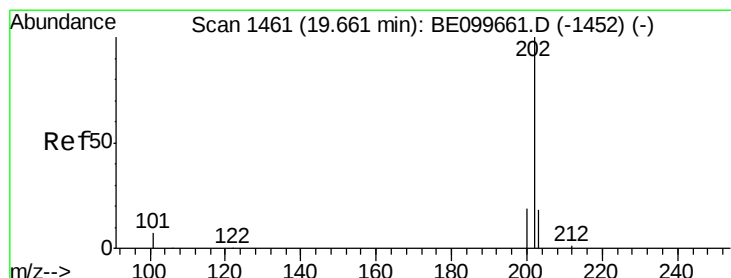
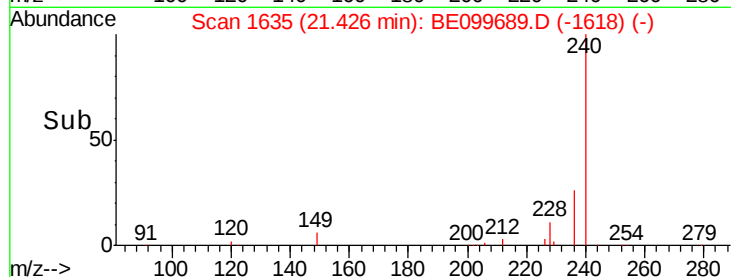
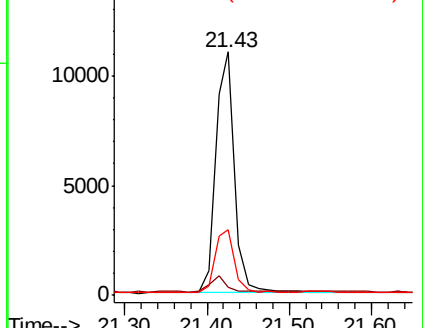
236 26.8 21.7 32.5



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: 0.402 ng

RT: 19.66 min Scan# 1461

Delta R.T. -0.00 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

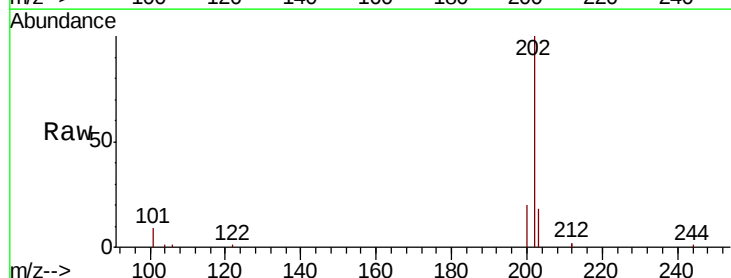
Tgt Ion:202 Resp: 17828

Ion Ratio Lower Upper

202 100

200 19.6 15.4 23.2

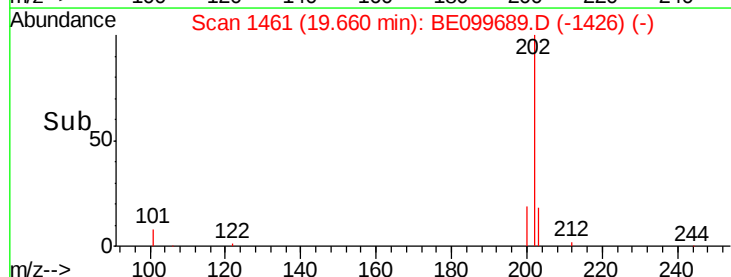
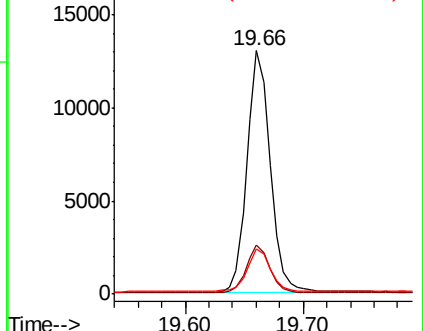
203 18.2 13.8 20.8

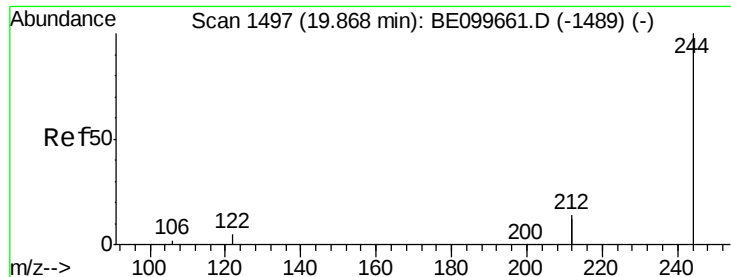


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.380 ng

RT: 19.87 min Scan# 1497

Delta R.T. -0.00 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

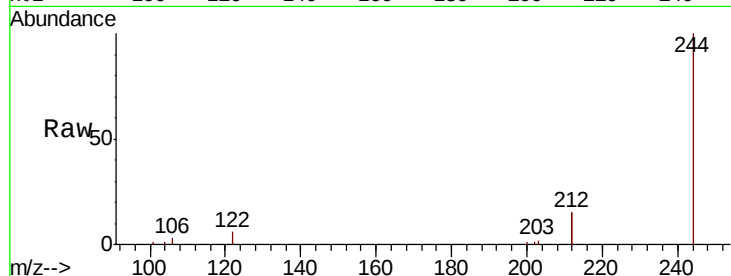
Tot Ion:244 Resp: 11980

Ion Ratio Lower Upper

244 100

212 29.5 22.5 33.7

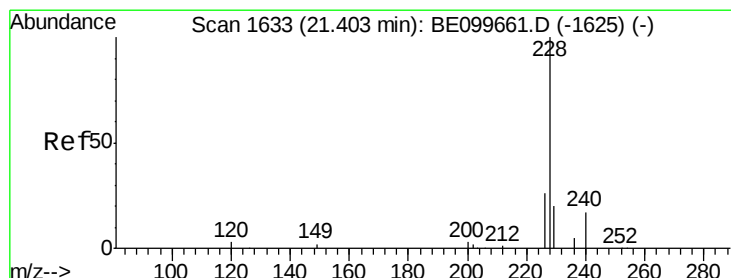
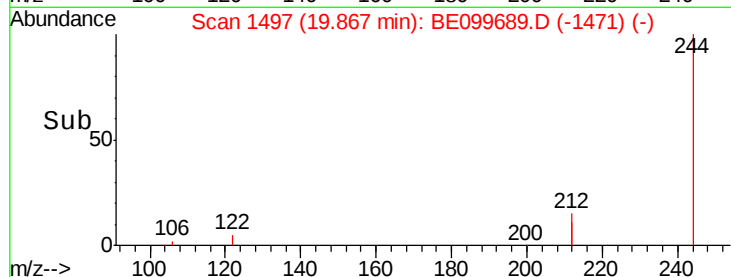
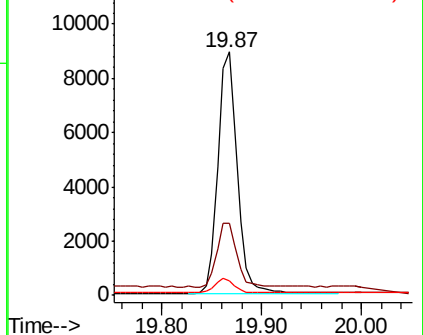
122 5.7 4.3 6.5



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: 0.436 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

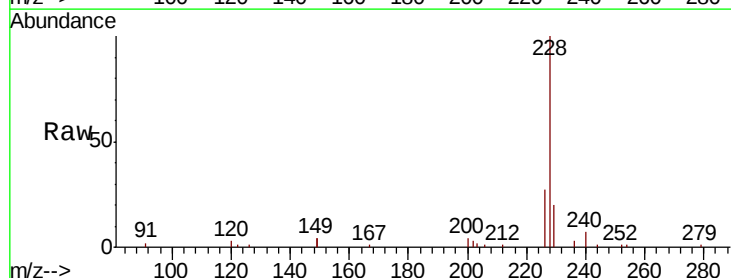
Tgt Ion:228 Resp: 21837

Ion Ratio Lower Upper

228 100

226 27.3 21.3 31.9

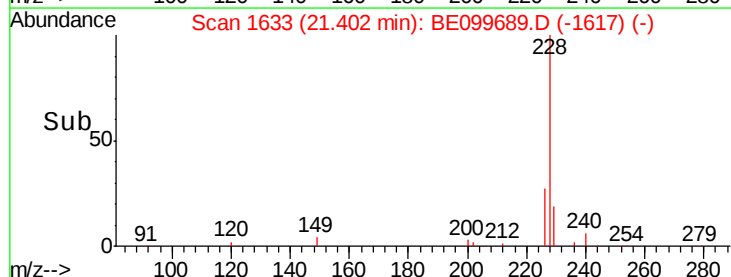
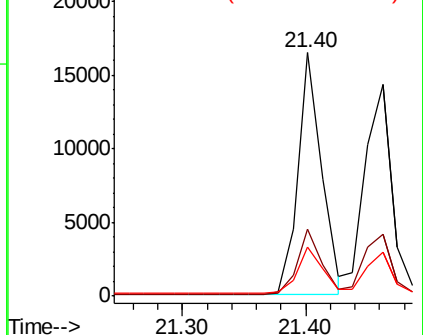
229 20.3 16.1 24.1

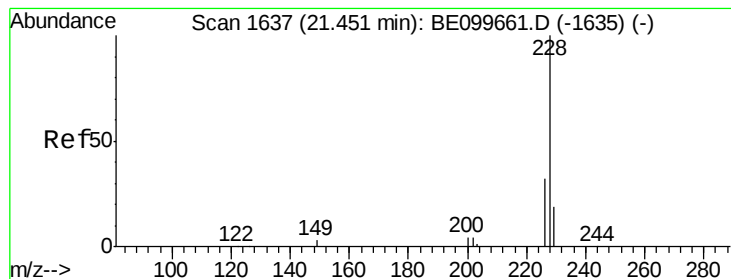


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.401 ng

RT: 21.46 min Scan# 1638

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

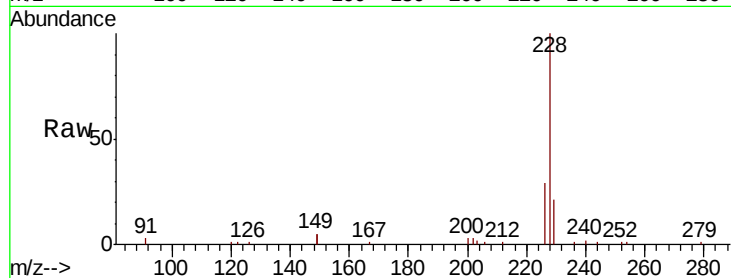
Tot Ion:228 Resp: 21492

Ion Ratio Lower Upper

228 100

226 29.1 24.7 37.1

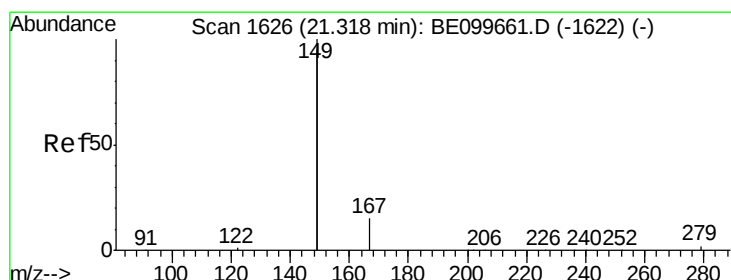
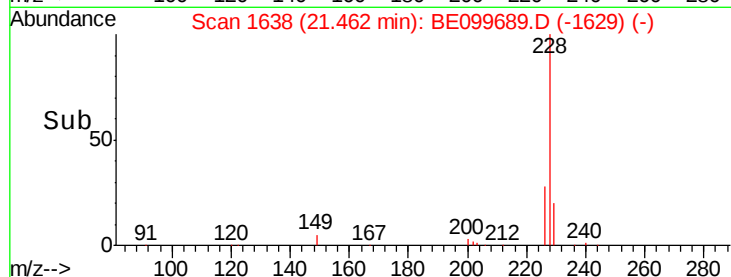
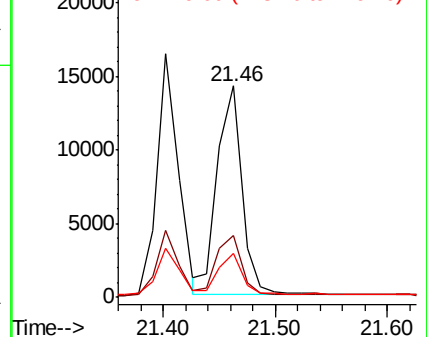
229 20.9 15.8 23.6



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: 0.780 ng

RT: 21.32 min Scan# 1626

Delta R.T. -0.00 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

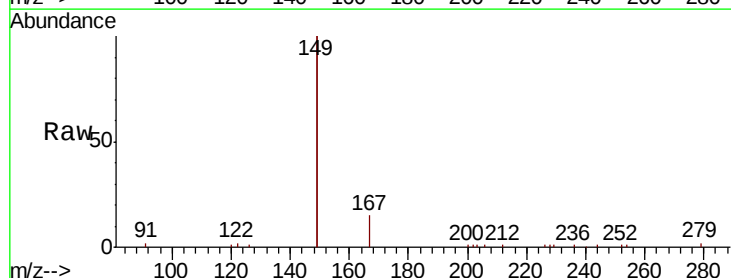
Tgt Ion:149 Resp: 45062

Ion Ratio Lower Upper

149 100

167 7.6 6.2 9.4

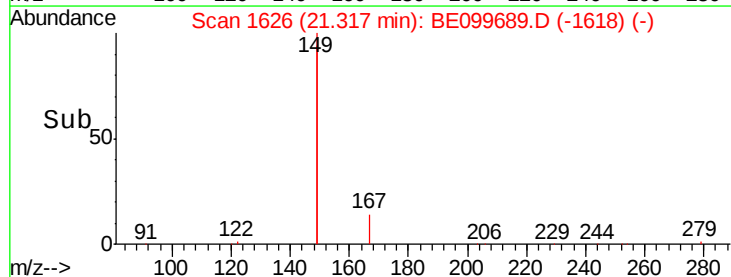
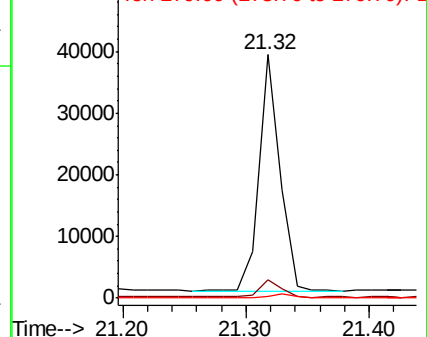
279 1.5 1.2 1.8

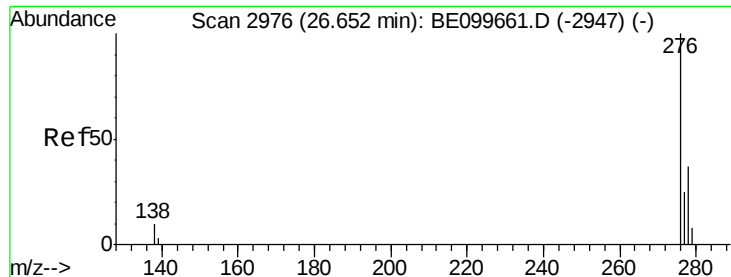


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

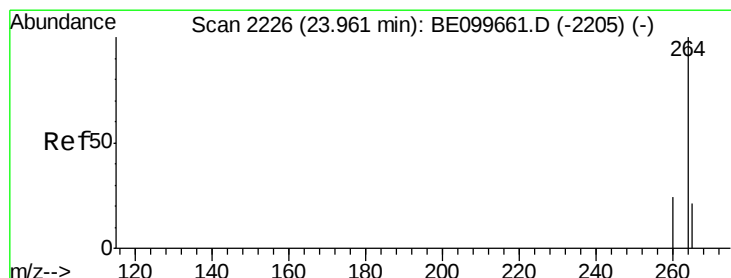
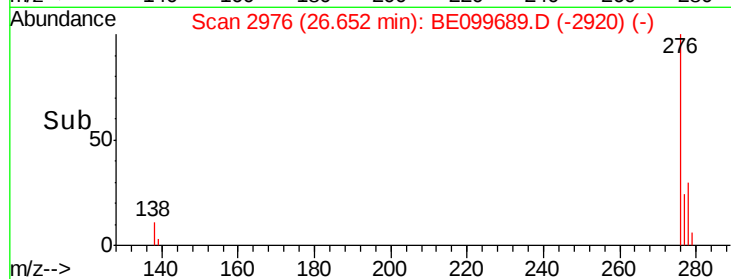
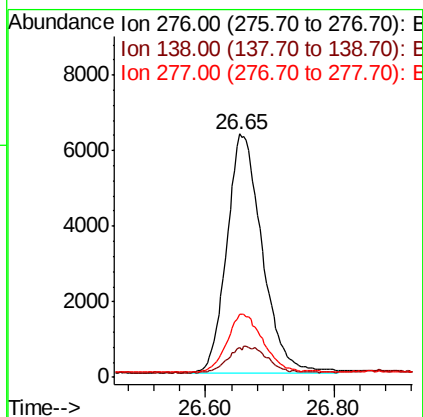
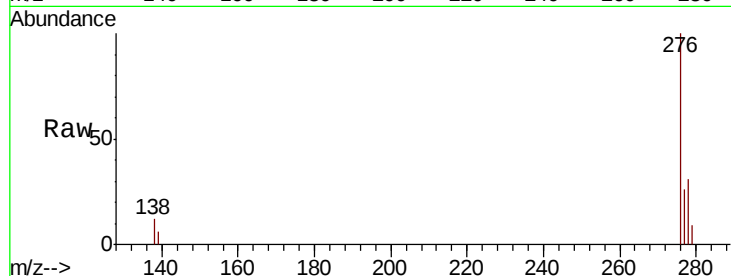




#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.373 ng  
 RT: 26.65 min Scan# 2976  
 Delta R.T. 0.00 min  
 Lab File: BE099689.D  
 Acq: 21 May 2019 14:44

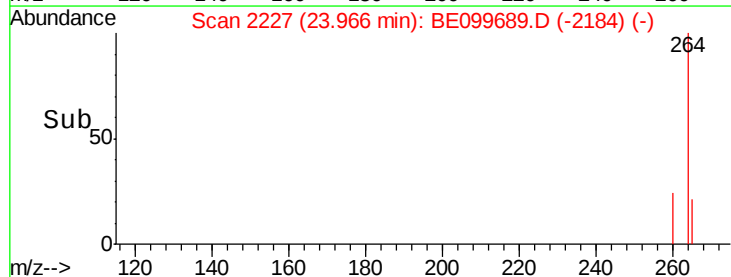
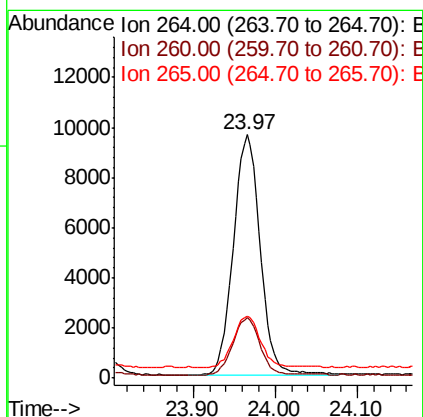
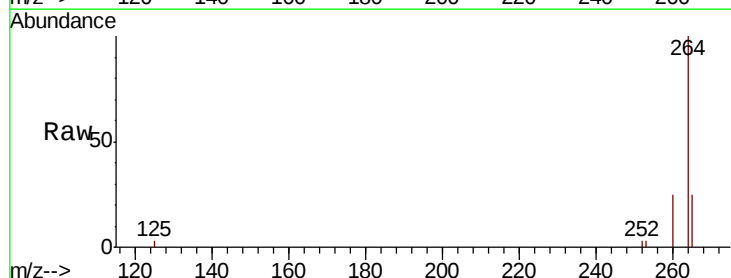
Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:276 Resp: 24130  
 Ion Ratio Lower Upper  
 276 100  
 138 12.1 9.6 14.4  
 277 24.2 19.2 28.8



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.97 min Scan# 2227  
 Delta R.T. 0.00 min  
 Lab File: BE099689.D  
 Acq: 21 May 2019 14:44

Tgt Ion:264 Resp: 21860  
 Ion Ratio Lower Upper  
 264 100  
 260 25.0 19.6 29.4  
 265 25.5 19.1 28.7





#35

Benzo(b)fluoranthene

Concen: 0.351 ng

RT: 23.18 min Scan# 2006

Delta R.T. 0.00 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

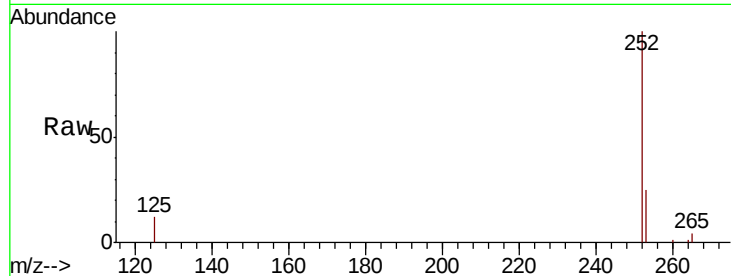
Tot Ion:252 Resp: 21026

Ion Ratio Lower Upper

252 100

253 25.0 18.2 27.4

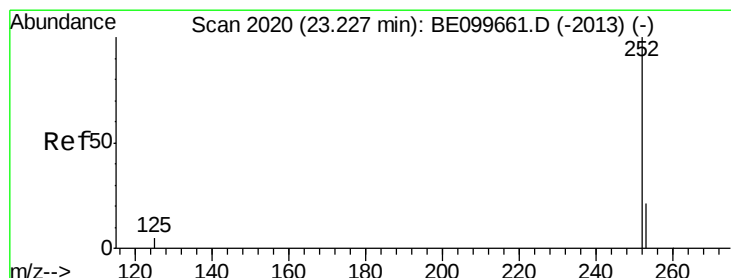
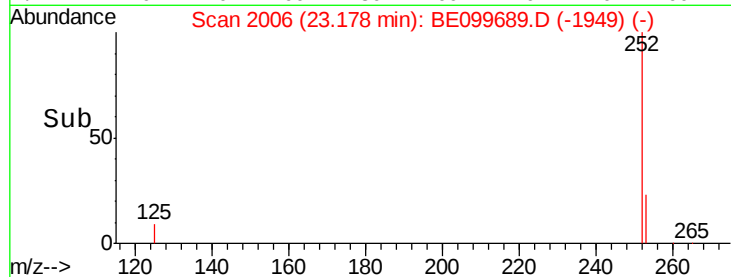
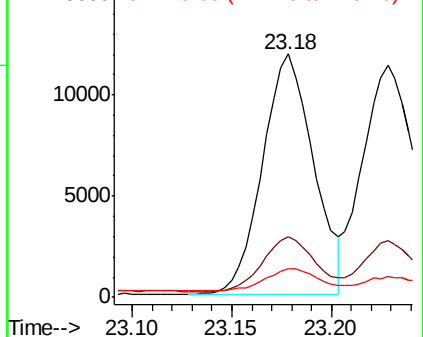
125 11.6 4.5 6.7#



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: 0.344 ng

RT: 23.23 min Scan# 2020

Delta R.T. 0.00 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

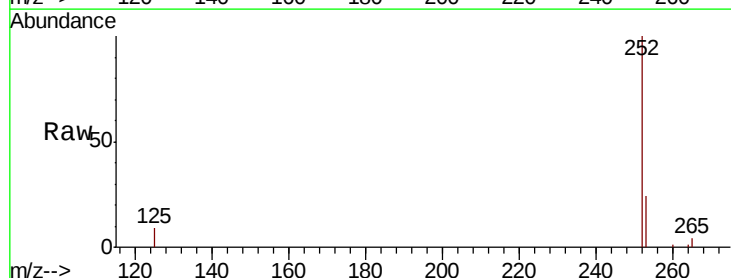
Tgt Ion:252 Resp: 21461

Ion Ratio Lower Upper

252 100

253 24.2 17.8 26.8

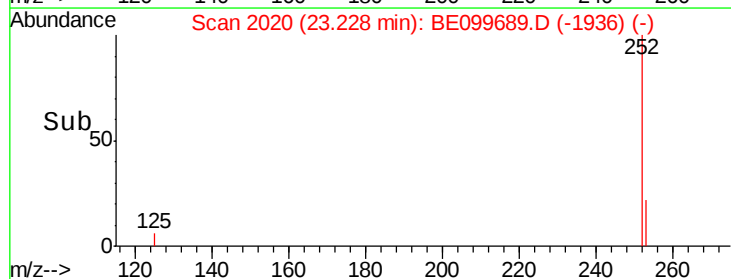
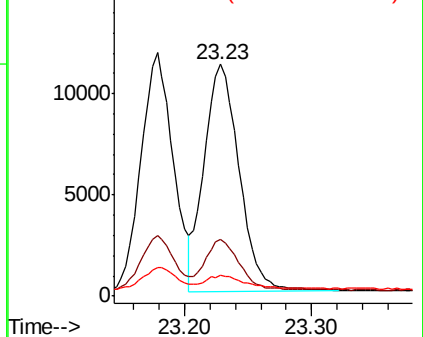
125 9.0 4.6 6.8#



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





#37

Benzo(a)pyrene

Concen: 0.352 ng

RT: 23.85 min Scan# 2194

Delta R.T. 0.00 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

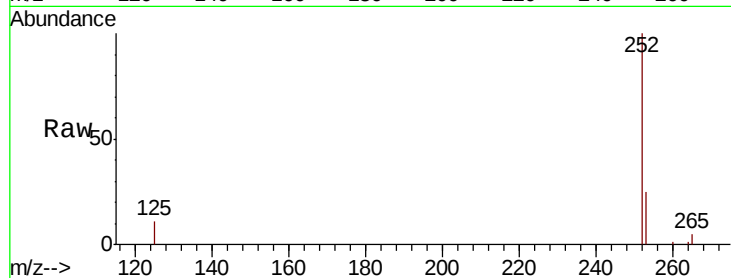
Tot Ion:252 Resp: 20319

Ion Ratio Lower Upper

252 100

253 25.1 18.9 28.3

125 11.5 5.4 8.0#

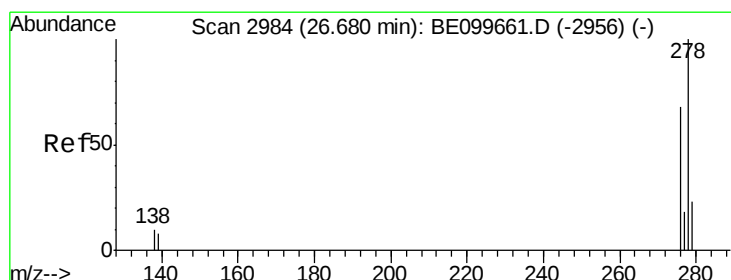
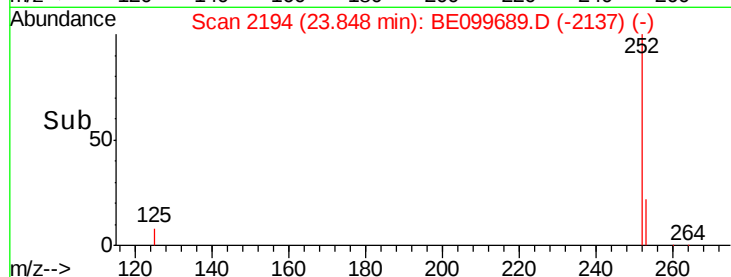
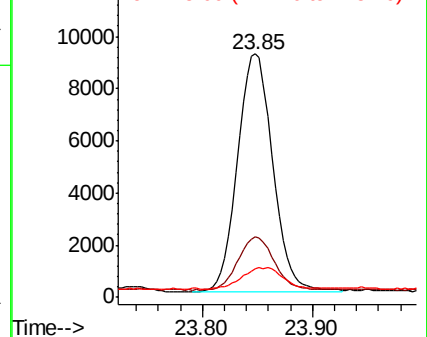


Abundance

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: 0.335 ng

RT: 26.68 min Scan# 2985

Delta R.T. 0.00 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

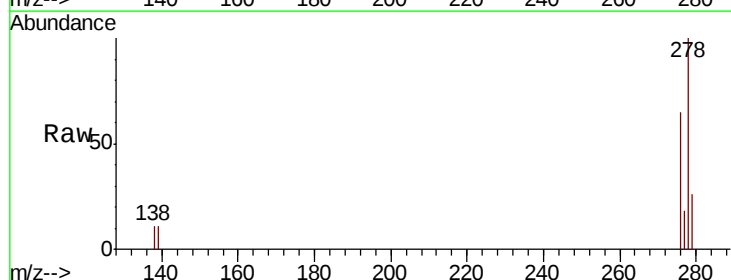
Tgt Ion:278 Resp: 20294

Ion Ratio Lower Upper

278 100

139 11.3 6.9 10.3#

279 26.2 19.2 28.8

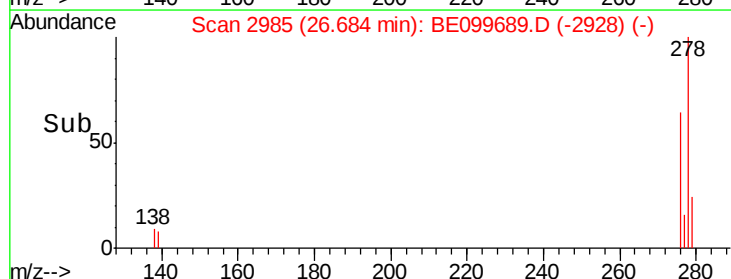
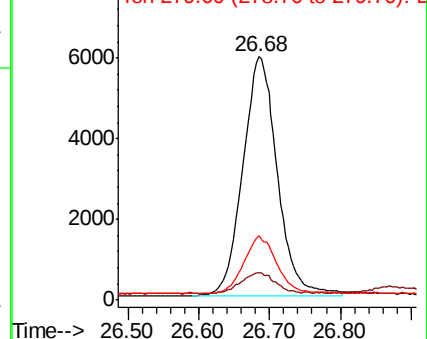


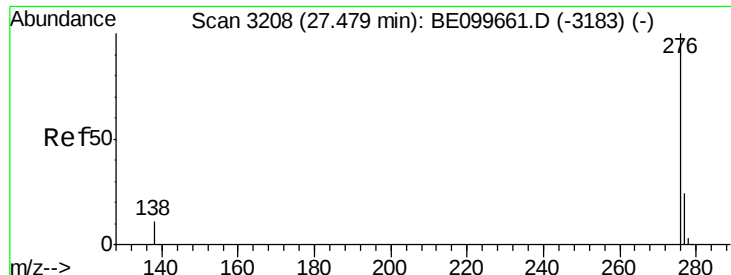
Abundance

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: 0.329 ng

RT: 27.49 min Scan# 3210

Delta R.T. 0.01 min

Lab File: BE099689.D

Acq: 21 May 2019 14:44

Instrument :

BNA\_E

ClientSampleId :

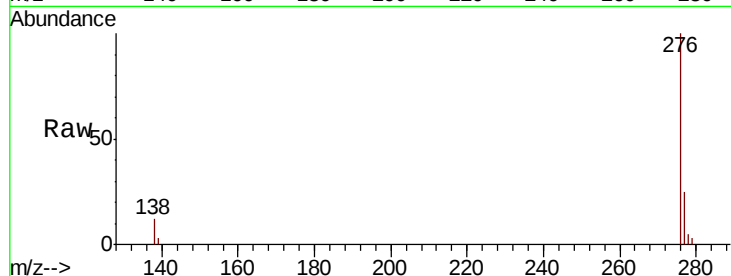
Tot Ion:276 Resp: 20095

Ion Ratio Lower Upper

276 100

277 24.8 19.8 29.6

138 11.7 9.2 13.8



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

