

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042519\  
 Data File : BE099365.D  
 Acq On : 25 Apr 2019 17:26  
 Operator : JU/SJ  
 Sample : K2534-02  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-074-SW066-042219

Quant Time: Apr 26 00:42:58 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE041819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 19 06:51:38 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 4175     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.60 | 136  | 16929    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.46 | 164  | 12047    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.19 | 188  | 31763    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.36 | 240  | 34275    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.86 | 264  | 38084    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.39  | 112  | 2924     | 0.29 | ng    | 0.00     |
| 5) Phenol-d6                | 6.98  | 99   | 4650     | 0.32 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.96  | 82   | 3624     | 0.28 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.19 | 152  | 6675     | 0.22 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.94 | 330  | 1774     | 0.44 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.09 | 172  | 10332    | 0.22 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.22 | 212  | 80193    | 0.21 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.81 | 244  | 15838    | 0.23 | ng    | 0.00     |

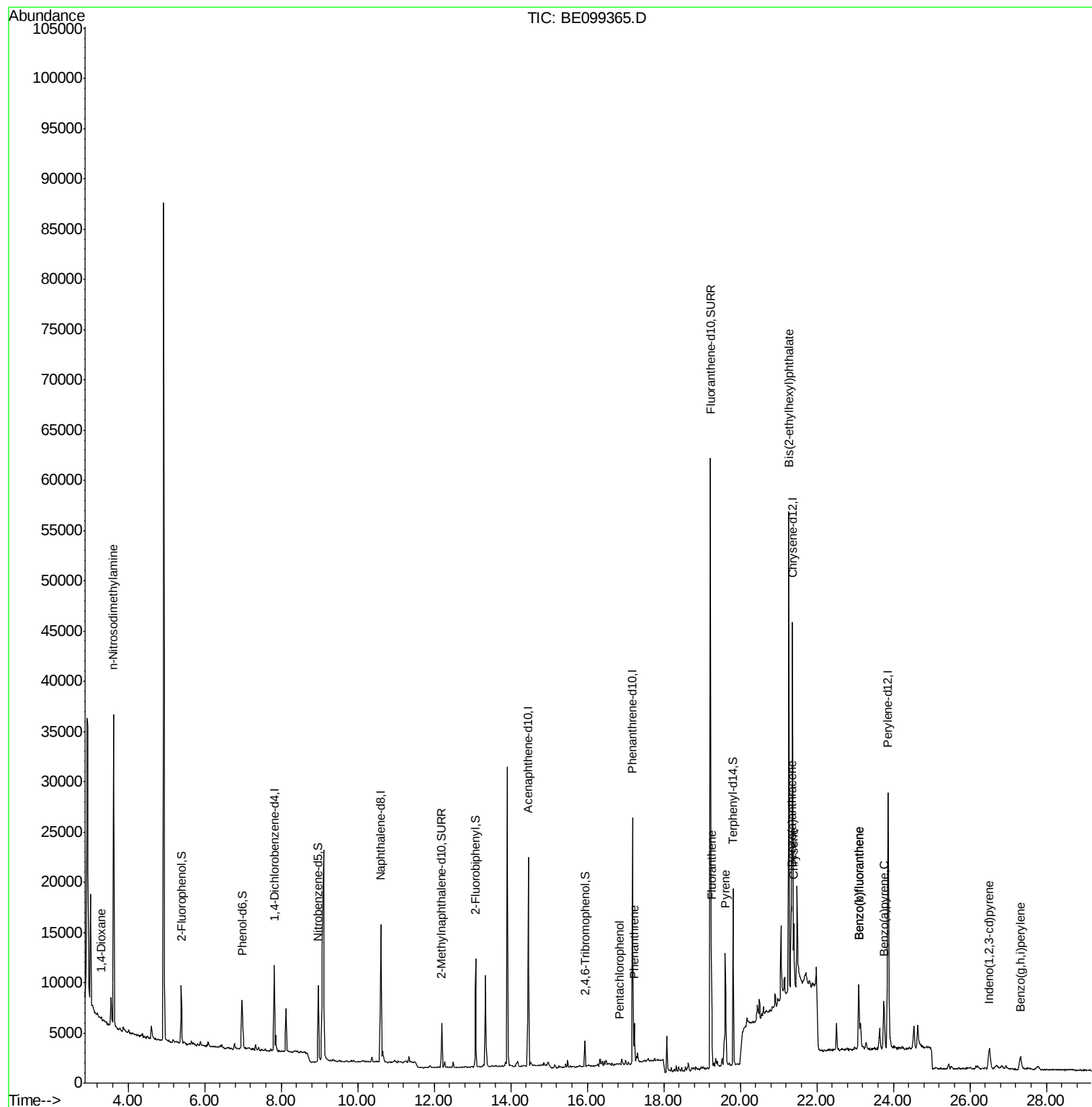
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.30  | 88   | 198      | 0.034 | ng    | # 86   |
| 3) n-Nitrosodimethylamine      | 3.62  | 42   | 2388     | 0.759 | ng    | # 1    |
| 22) Pentachlorophenol          | 16.84 | 266  | 67       | 0.230 | ng    | # 81   |
| 23) Phenanthrene               | 17.23 | 178  | 4186     | 0.050 | ng    | 95     |
| 26) Fluoranthene               | 19.25 | 202  | 10863    | 0.096 | ng    | 98     |
| 28) Pyrene                     | 19.61 | 202  | 9908     | 0.098 | ng    | # 94   |
| 30) Benzo(a)anthracene         | 21.34 | 228  | 5171     | 0.051 | ng    | # 82   |
| 31) Chrysene                   | 21.40 | 228  | 5959     | 0.056 | ng    | # 83   |
| 32) Bis(2-ethylhexyl)phthalate | 21.27 | 149  | 49613    | 0.541 | ng    | # 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.51 | 276  | 3781     | 0.036 | ng    | # 89   |
| 35) Benzo(b)fluoranthene       | 23.10 | 252  | 7481     | 0.064 | ng    | # 1    |
| 36) Benzo(k)fluoranthene       | 23.10 | 252  | 7481     | 0.064 | ng    | # 1    |
| 37) Benzo(a)pyrene             | 23.75 | 252  | 5281     | 0.051 | ng    | # 1    |
| 39) Benzo(g,h,i)perylene       | 27.32 | 276  | 3377     | 0.031 | ng    | # 71   |

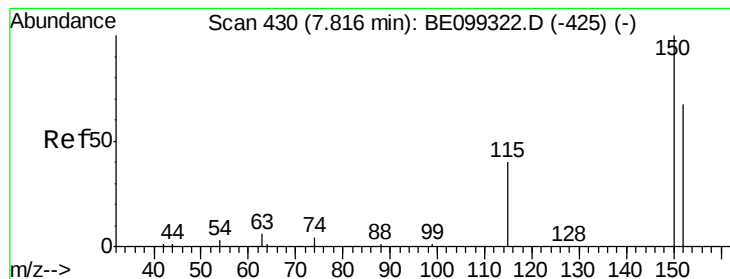
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.82 min Scan# 430

Delta R.T. 0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Instrument :

BNA\_E

ClientSampleId :

EXT-074-SW066-042219

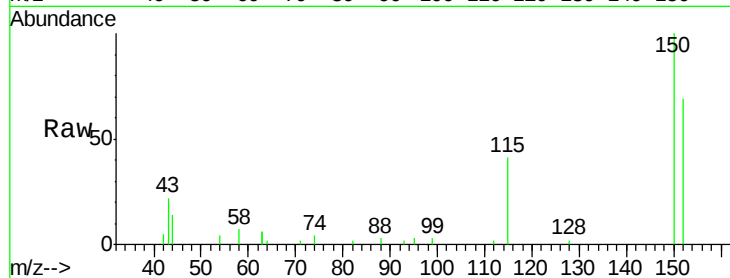
Tot Ion:152 Resp: 4175

Ion Ratio Lower Upper

152 100

150 145.4 119.5 179.3

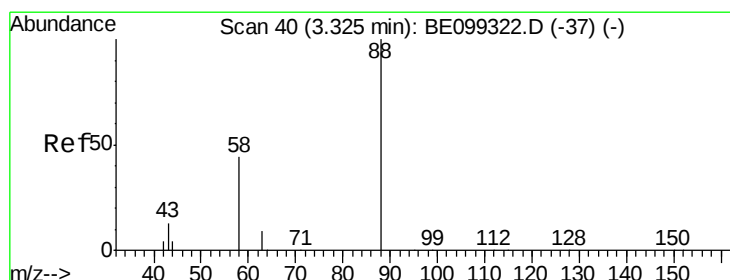
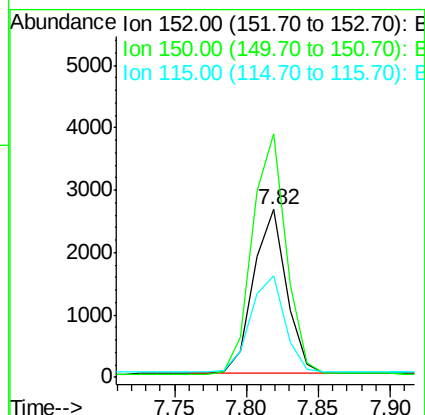
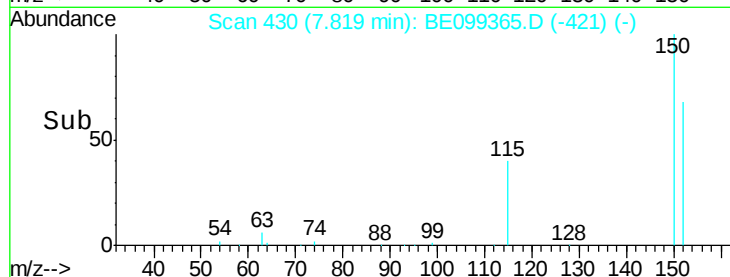
115 60.3 47.5 71.3



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: 0.034 ng

RT: 3.30 min Scan# 38

Delta R.T. -0.02 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

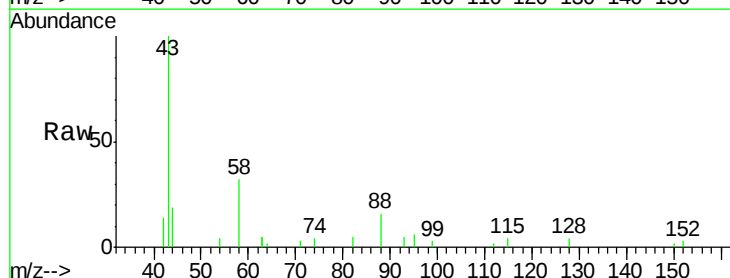
Tgt Ion: 88 Resp: 198

Ion Ratio Lower Upper

88 100

58 62.6 49.1 73.7

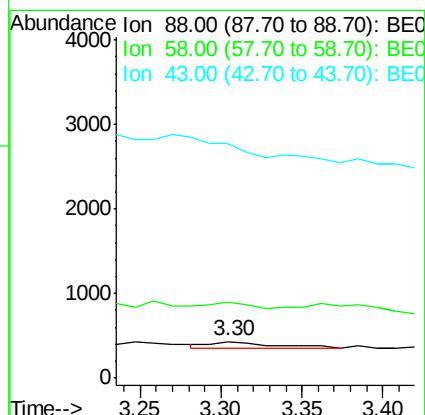
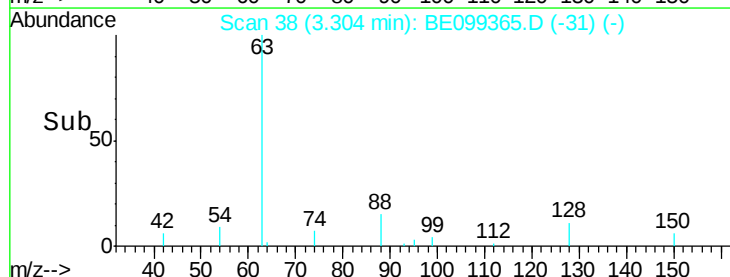
43 0.0 17.9 26.9#

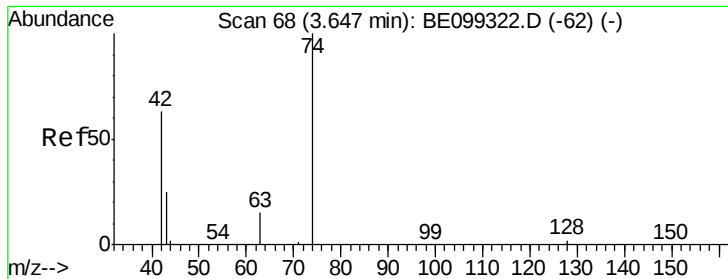


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.759 ng

RT: 3.62 min Scan# 65

Delta R.T. -0.04 min

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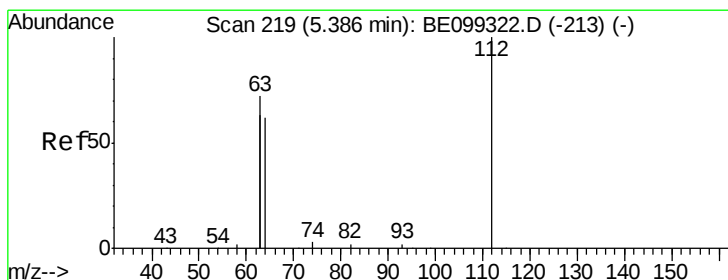
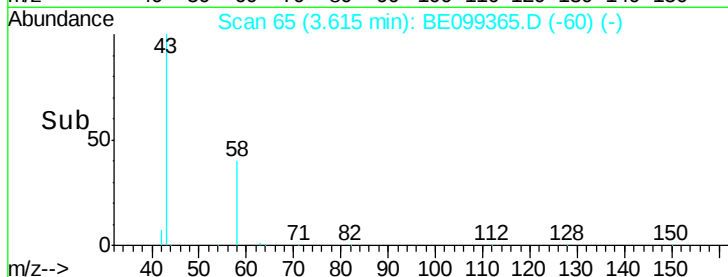
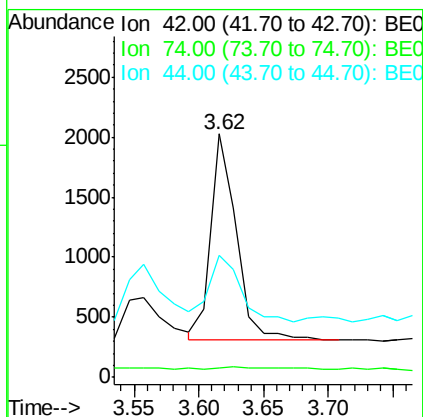
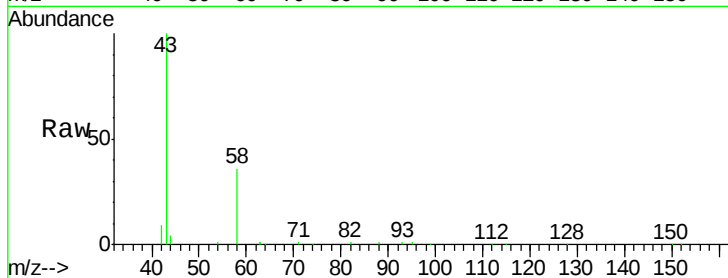
Tot Ion: 42 Resp: 2388

Ion Ratio Lower Upper

42 100

74 2.5 145.8 218.8#

44 39.8 9.0 13.4#



#4

2-Fluorophenol

Concen: 0.287 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

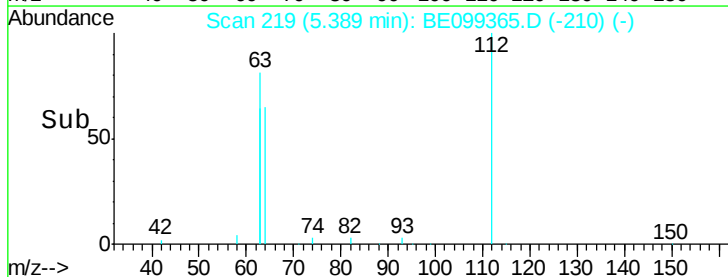
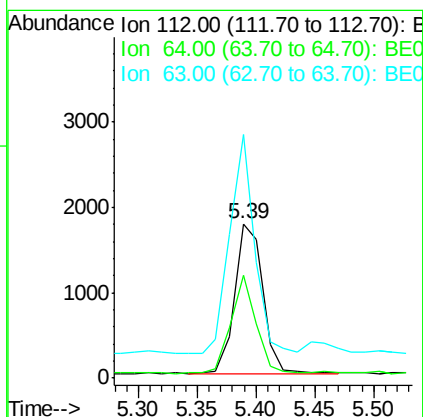
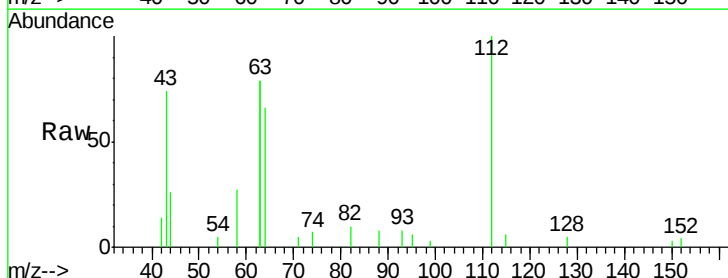
Tgt Ion: 112 Resp: 2924

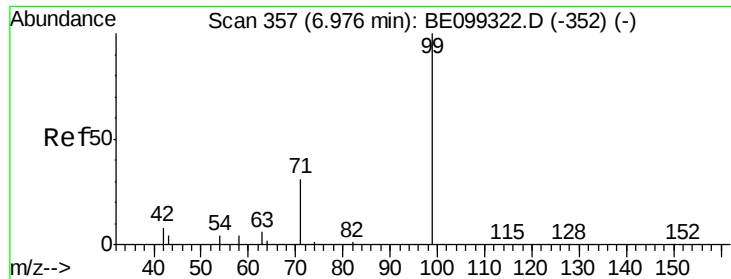
Ion Ratio Lower Upper

112 100

64 57.5 44.9 67.3

63 128.1 97.4 146.0





#5

Phenol-d6

Concen: 0.319 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Instrument :

BNA\_E

ClientSampleId :

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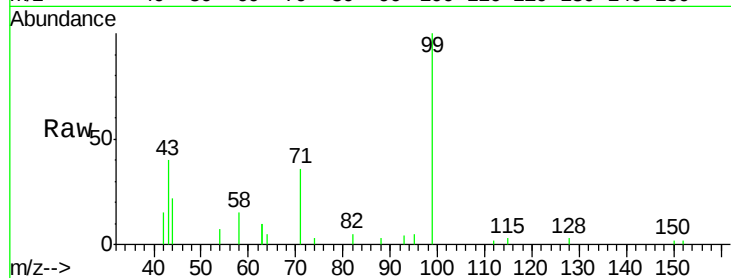
Tot Ion: 99 Resp: 4650

Ion Ratio Lower Upper

99 100

42 19.3 11.7 17.5#

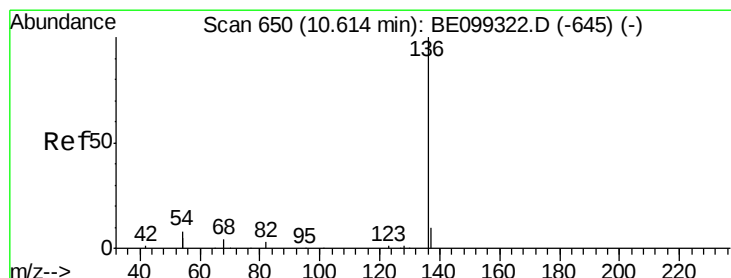
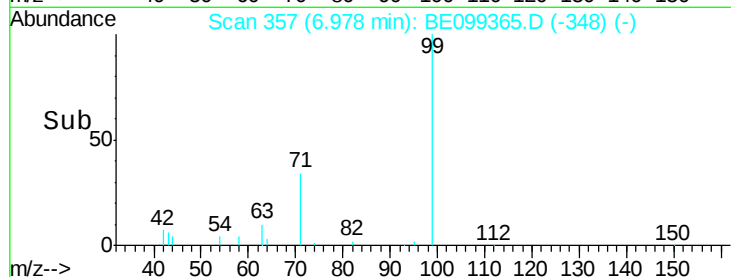
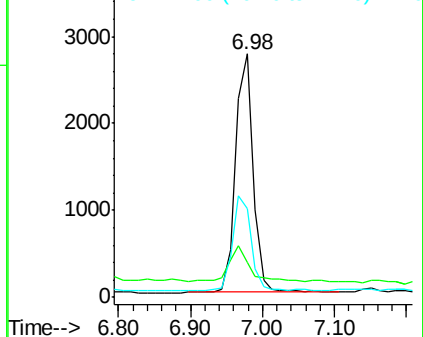
71 41.8 29.6 44.4



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

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Tgt Ion: 136 Resp: 16929

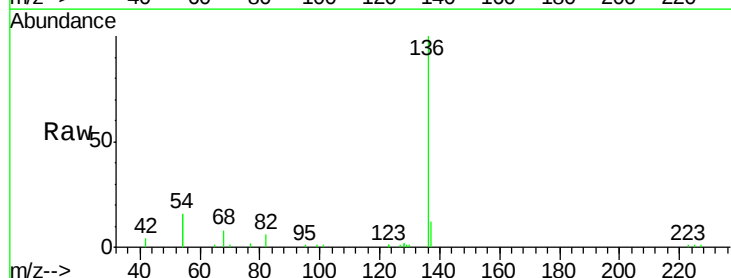
Ion Ratio Lower Upper

136 100

137 11.6 8.7 13.1

54 32.1 23.8 35.8

68 7.6 6.4 9.6

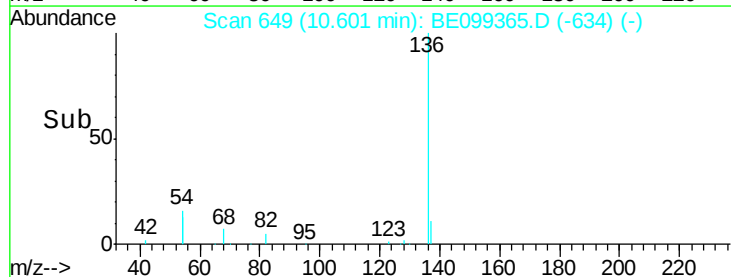
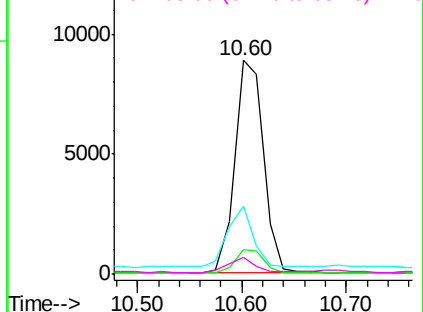


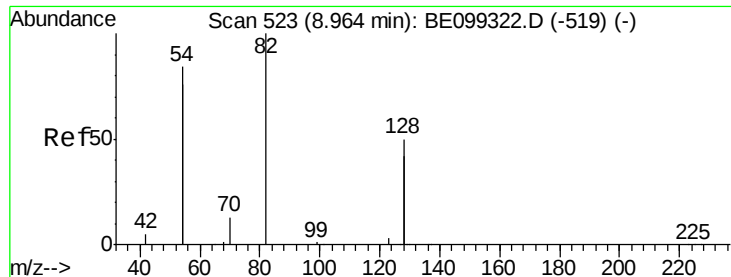
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.276 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Instrument :

BNA\_E

ClientSampleId :

EXT-074-SW066-042219

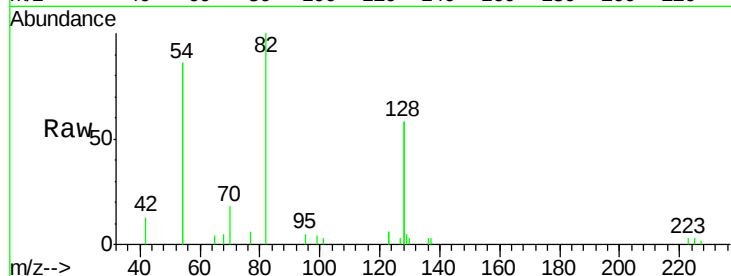
Tot Ion: 82 Resp: 3624

Ion Ratio Lower Upper

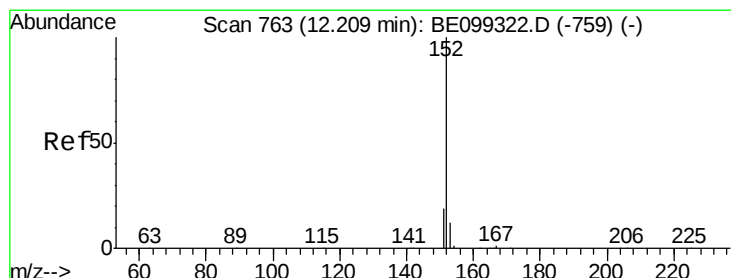
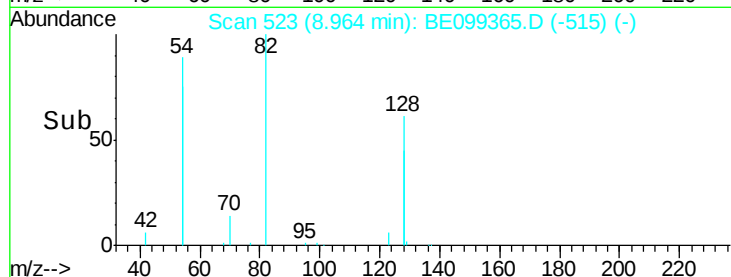
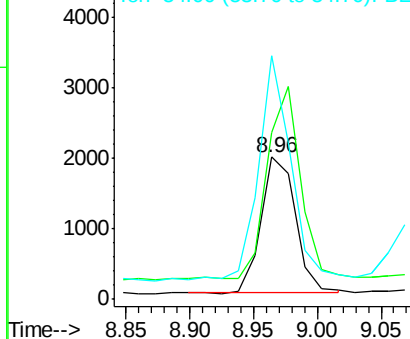
82 100

128 116.8 91.7 137.5

54 171.1 122.8 184.2



Abundance Ion 82.00 (81.70 to 82.70): BE0  
Ion 128.00 (127.70 to 128.70): BE0  
Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.223 ng

RT: 12.19 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE099365.D

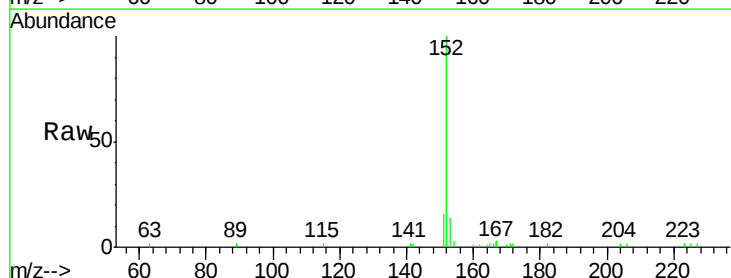
Acq: 25 Apr 2019 17:26

Tgt Ion: 152 Resp: 6675

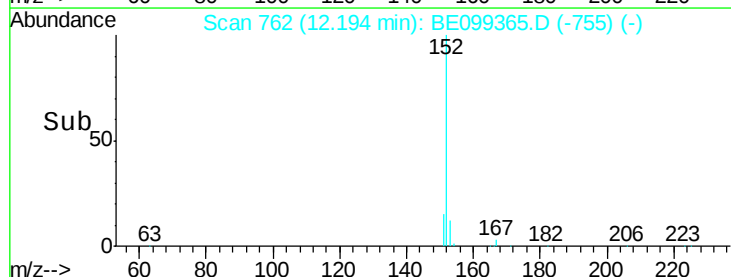
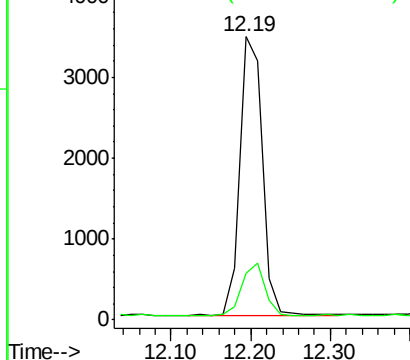
Ion Ratio Lower Upper

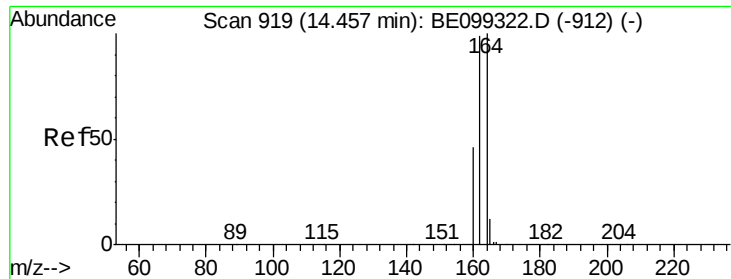
152 100

151 19.1 14.9 22.3



Abundance Ion 152.00 (151.70 to 152.70): BE  
Ion 151.00 (150.70 to 151.70): BE

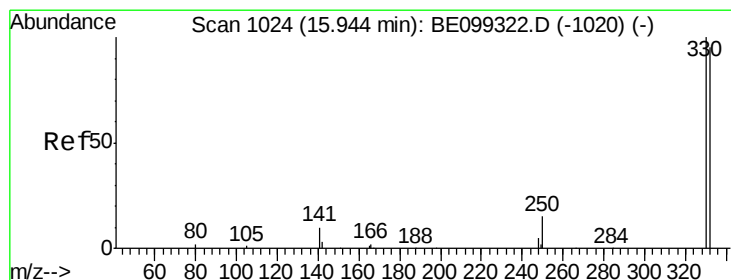
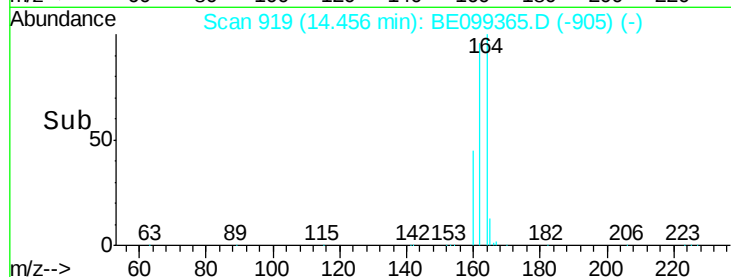
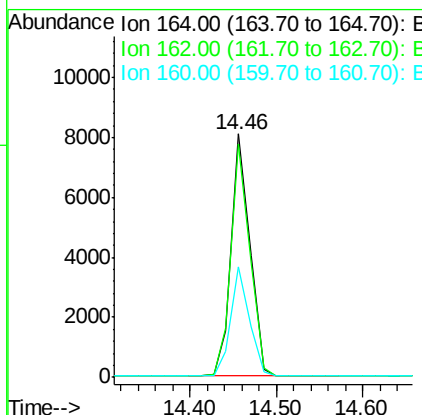
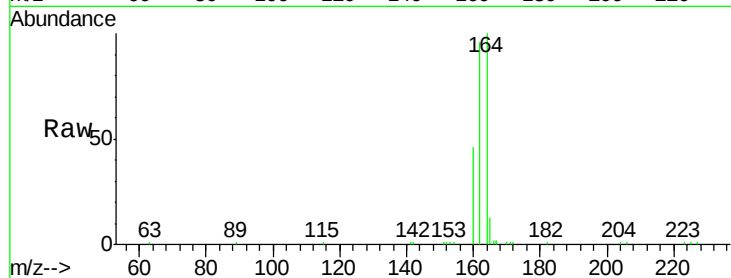




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.46 min Scan# 919  
Delta R.T. -0.00 min  
Lab File: BE099365.D  
Acq: 25 Apr 2019 17:26

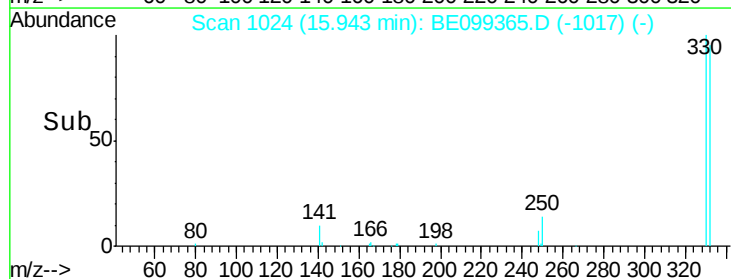
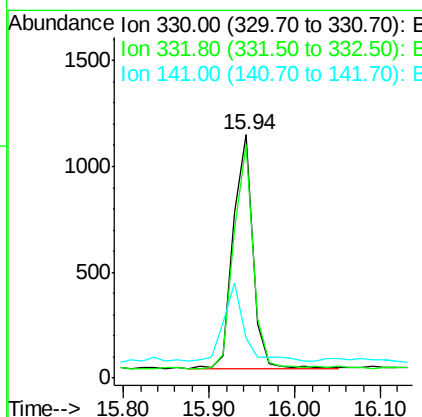
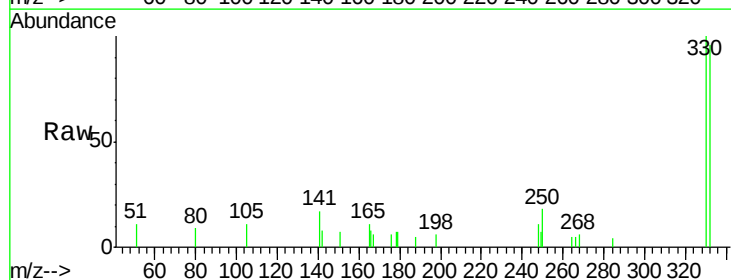
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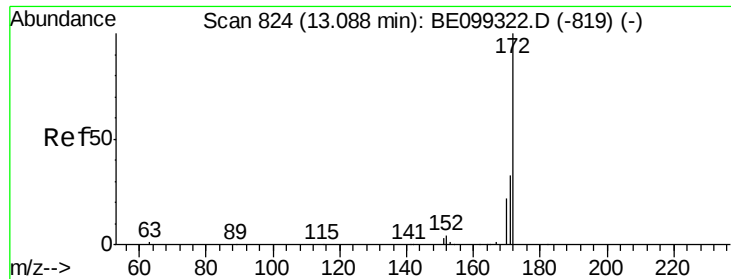
Tot Ion:164 Resp: 12047  
Ion Ratio Lower Upper  
164 100  
162 95.8 77.8 116.6  
160 45.6 37.1 55.7



#14  
2,4,6-Tribromophenol  
Concen: 0.443 ng  
RT: 15.94 min Scan# 1024  
Delta R.T. 0.00 min  
Lab File: BE099365.D  
Acq: 25 Apr 2019 17:26

Tgt Ion:330 Resp: 1774  
Ion Ratio Lower Upper  
330 100  
332 94.4 82.5 123.7  
141 34.5 24.9 37.3

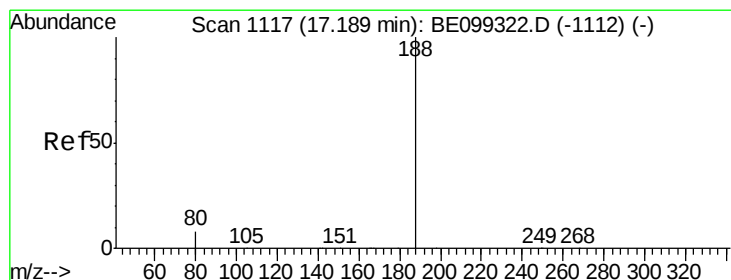
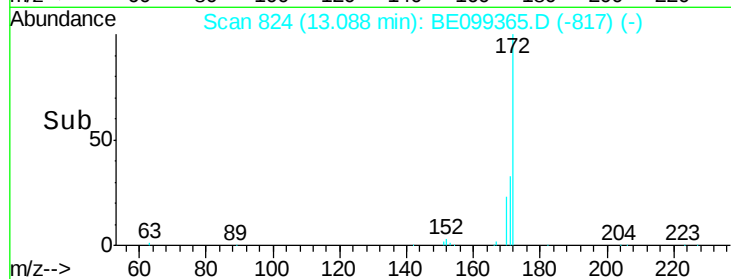
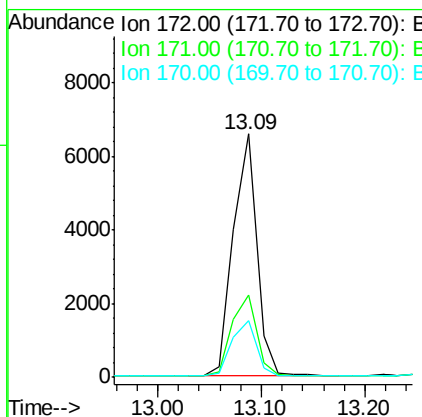
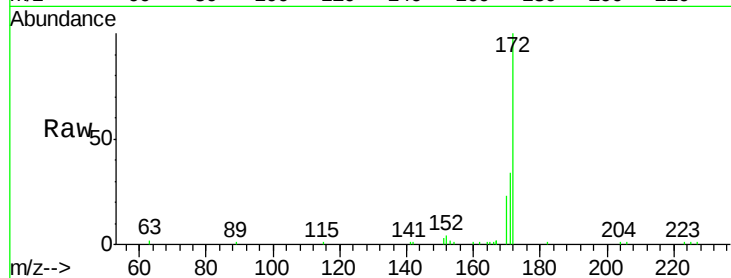




#15  
2-Fluorobiphenyl  
Concen: 0.218 ng  
RT: 13.09 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: BE099365.D  
Acq: 25 Apr 2019 17:26

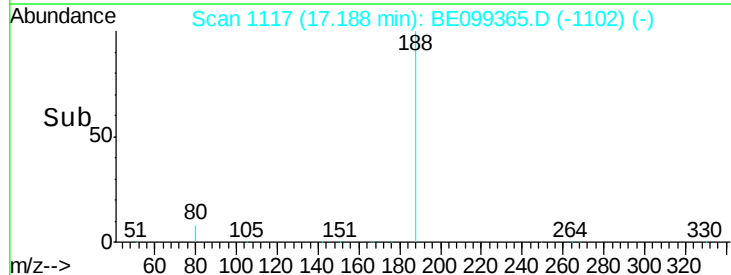
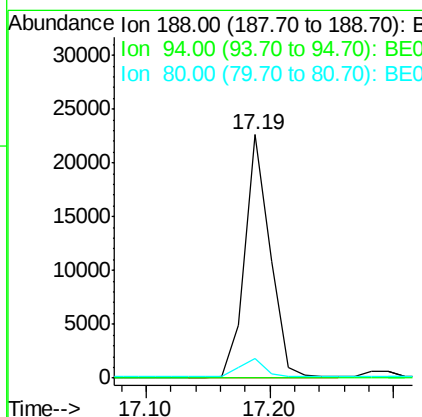
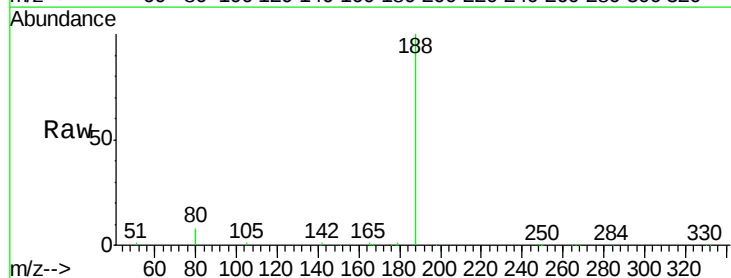
Instrument :  
BNA\_E  
ClientSampleId :  
EXT-074-SW066-042219

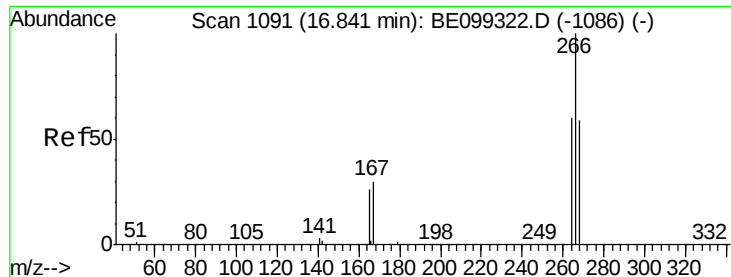
Tot Ion:172 Resp: 10332  
Ion Ratio Lower Upper  
172 100  
171 33.7 26.2 39.2  
170 23.2 18.1 27.1



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.19 min Scan# 1117  
Delta R.T. -0.00 min  
Lab File: BE099365.D  
Acq: 25 Apr 2019 17:26

Tgt Ion:188 Resp: 31763  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 8.2 6.2 9.4





#22

Pentachlorophenol

Concen: 0.230 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Instrument :

BNA\_E

ClientSampleId :

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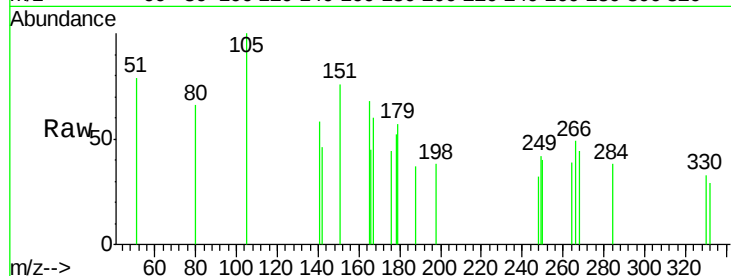
Tot Ion:266 Resp: 67

Ion Ratio Lower Upper

266 100

264 78.8 54.5 81.7

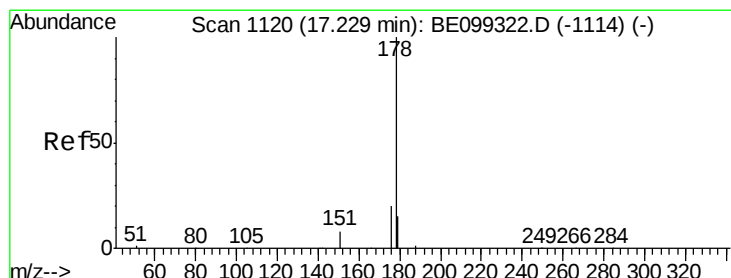
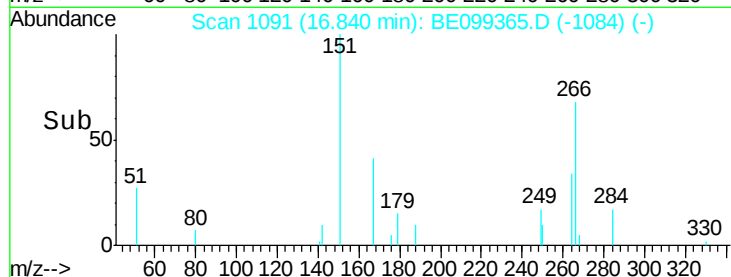
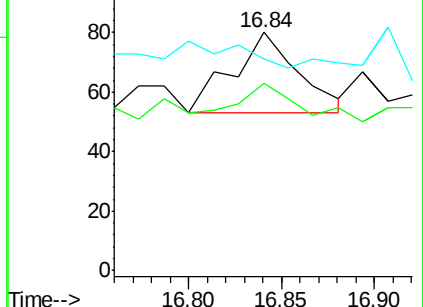
268 88.8 54.3 81.5#



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: 0.050 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

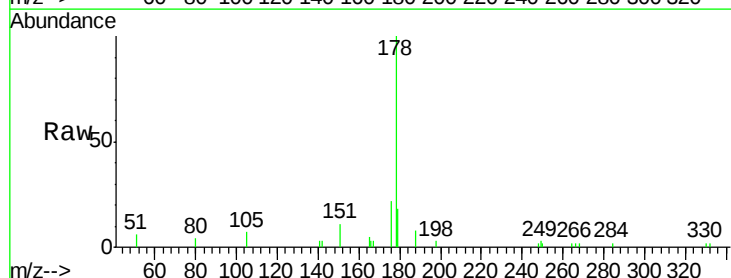
Tgt Ion:178 Resp: 4186

Ion Ratio Lower Upper

178 100

176 21.7 15.3 22.9

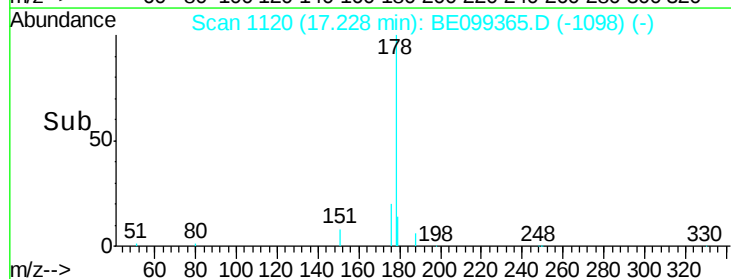
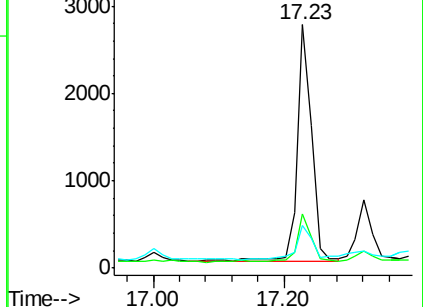
179 16.9 12.4 18.6

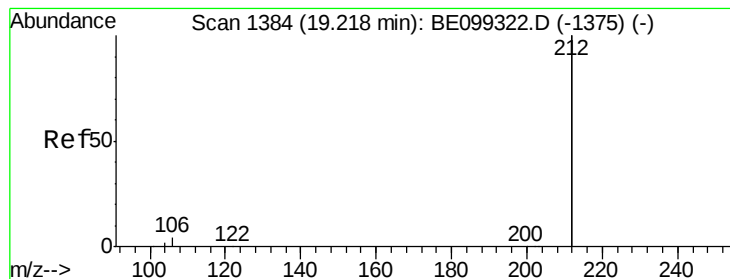


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.210 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Instrument :

BNA\_E

ClientSampleId :

EXT-074-SW066-042219

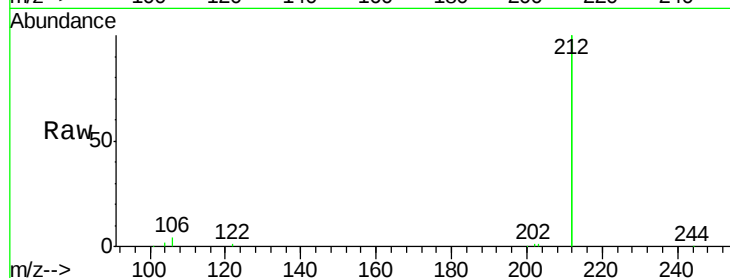
Tot Ion:212 Resp: 80193

Ion Ratio Lower Upper

212 100

106 2.0 1.8 2.6

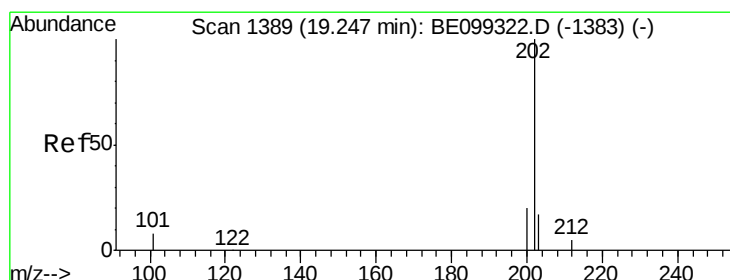
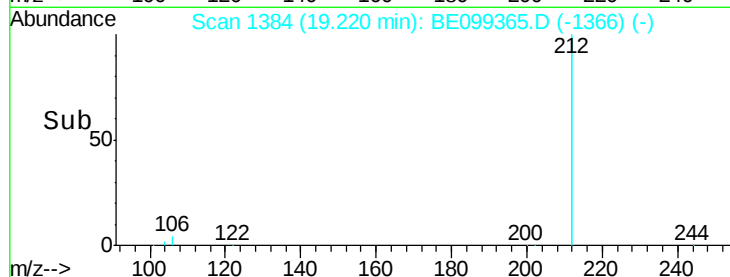
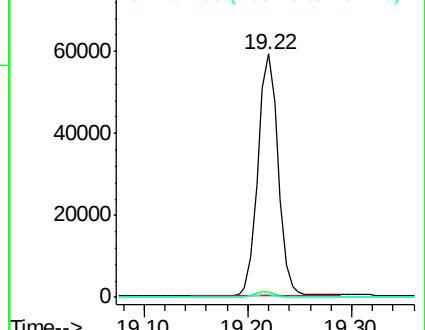
104 1.2 1.0 1.4



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: 0.096 ng

RT: 19.25 min Scan# 1389

Delta R.T. 0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

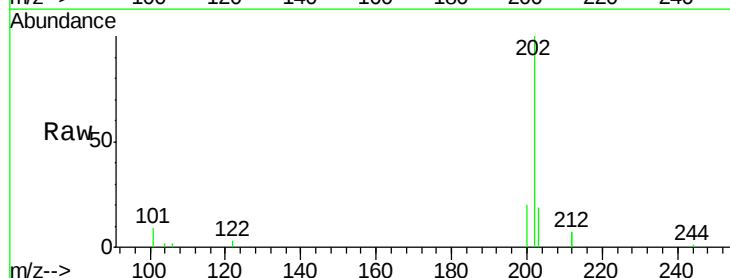
Tgt Ion:202 Resp: 10863

Ion Ratio Lower Upper

202 100

101 8.8 6.4 9.6

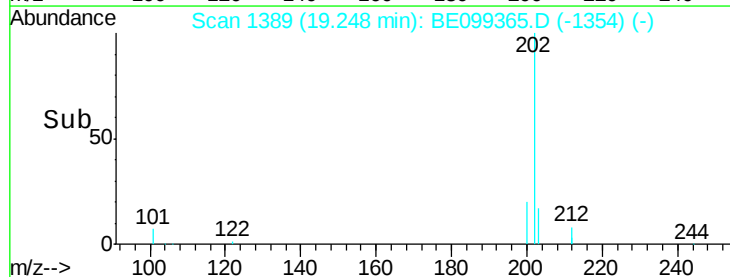
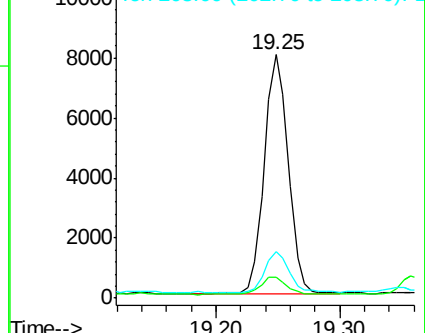
203 17.5 13.5 20.3

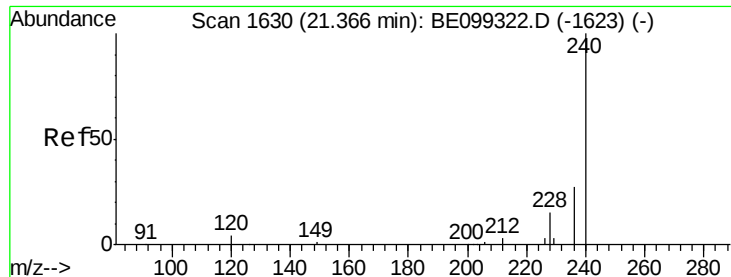


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.36 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Instrument :

BNA\_E

ClientSampleId :

EXT-074-SW066-042219

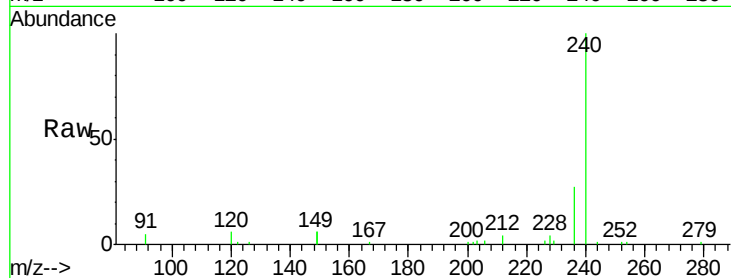
Tot Ion:240 Resp: 34275

Ion Ratio Lower Upper

240 100

120 5.5 2.2 3.2#

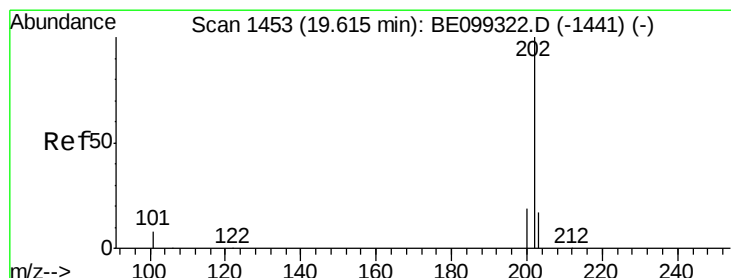
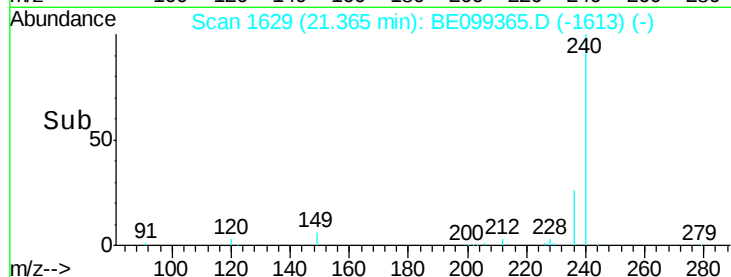
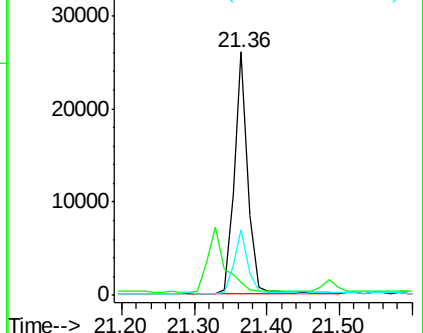
236 27.0 20.2 30.4



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: 0.098 ng

RT: 19.61 min Scan# 1452

Delta R.T. 0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

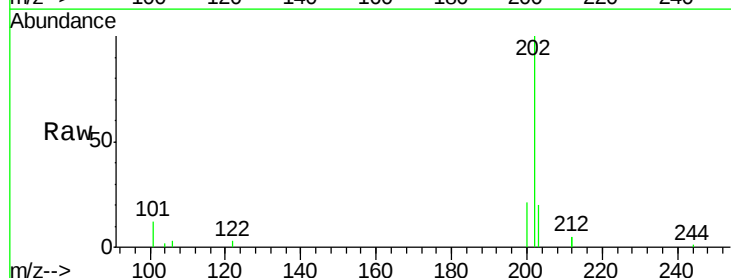
Tgt Ion:202 Resp: 9908

Ion Ratio Lower Upper

202 100

200 21.1 15.7 23.5

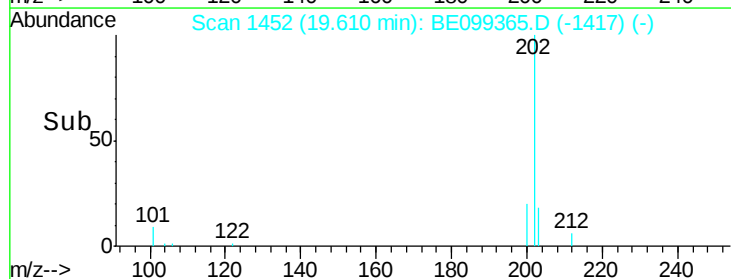
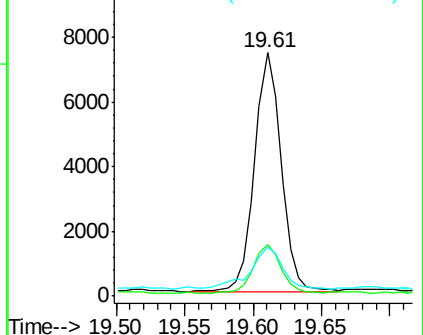
203 20.6 13.7 20.5#

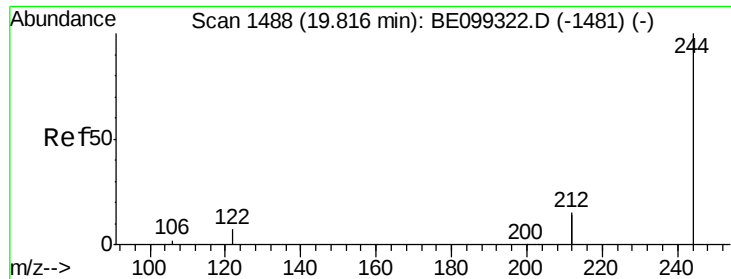


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.235 ng

RT: 19.81 min Scan# 1487

Delta R.T. -0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Instrument :

BNA\_E

ClientSampleId :

EXT-074-SW066-042219

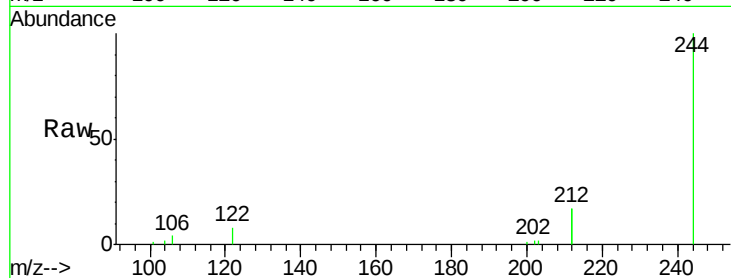
Tot Ion:244 Resp: 15838

Ion Ratio Lower Upper

244 100

212 33.6 22.6 33.8

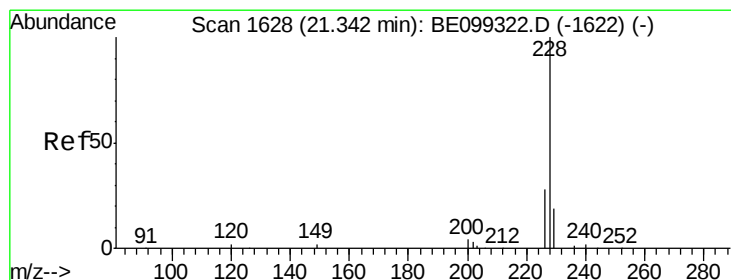
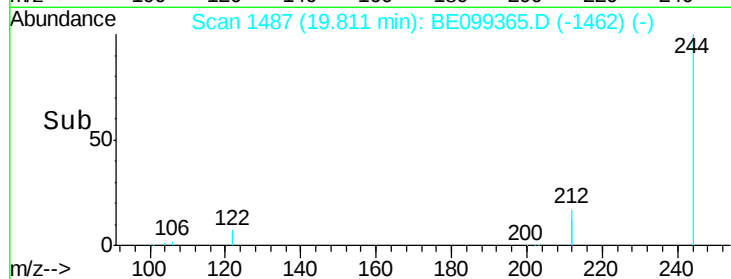
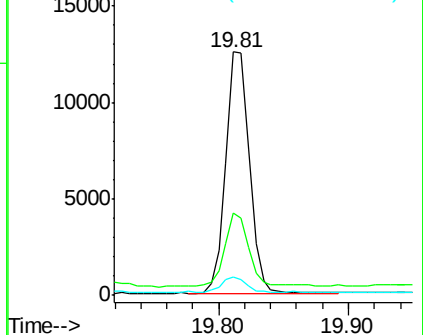
122 7.8 4.6 7.0#



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: 0.051 ng

RT: 21.34 min Scan# 1627

Delta R.T. -0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

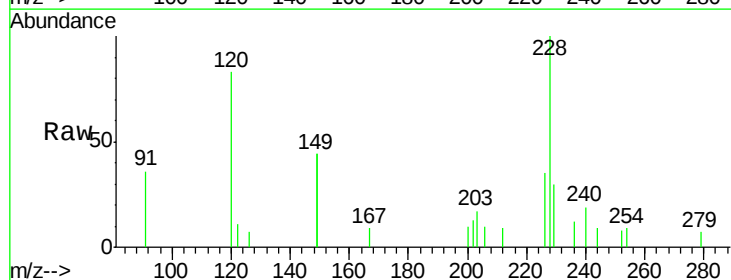
Tgt Ion:228 Resp: 5171

Ion Ratio Lower Upper

228 100

226 35.2 22.0 33.0#

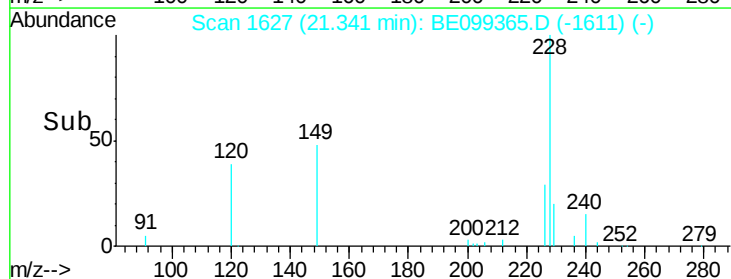
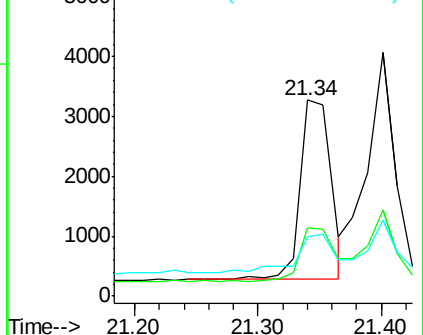
229 30.0 15.8 23.8#

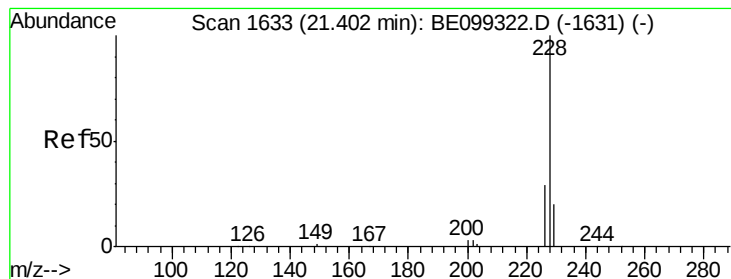


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.056 ng

RT: 21.40 min Scan# 1632

Delta R.T. -0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Instrument :

BNA\_E

ClientSampleId :

EXT-074-SW066-042219

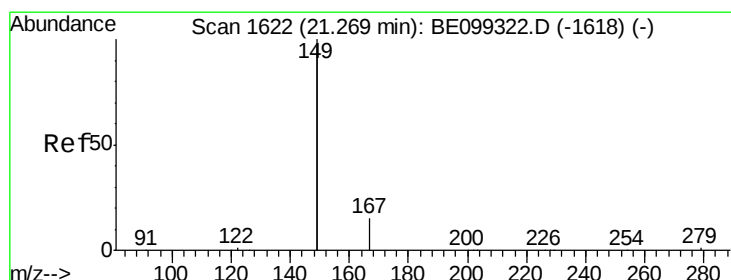
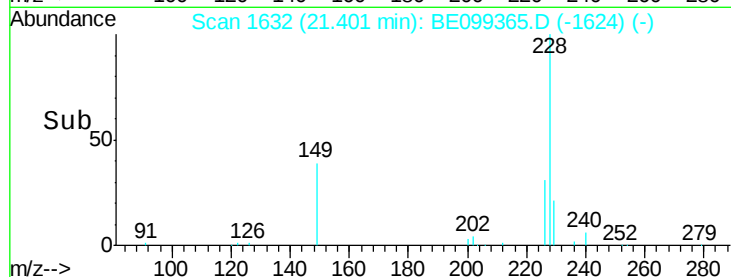
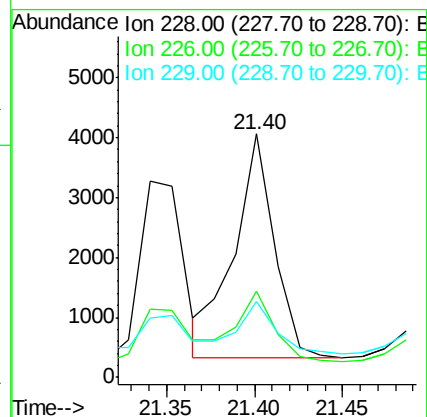
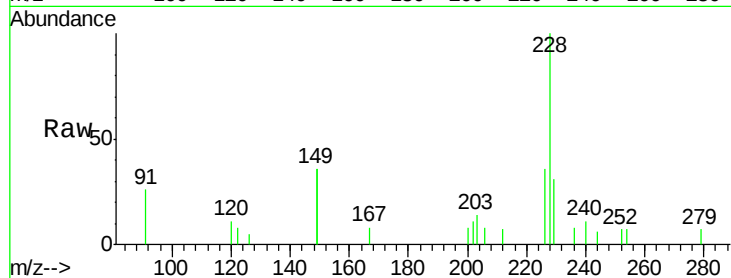
Tot Ion:228 Resp: 5959

Ion Ratio Lower Upper

228 100

226 35.5 23.4 35.2#

229 31.1 16.2 24.2#



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.541 ng

RT: 21.27 min Scan# 1621

Delta R.T. -0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

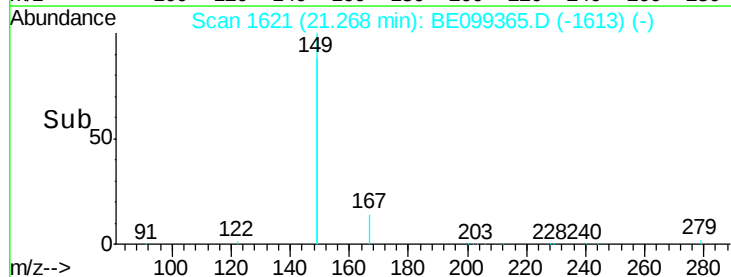
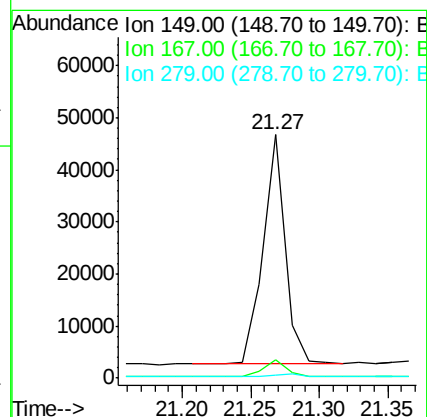
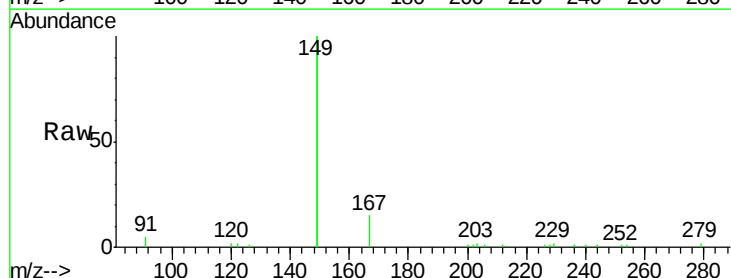
Tgt Ion:149 Resp: 49613

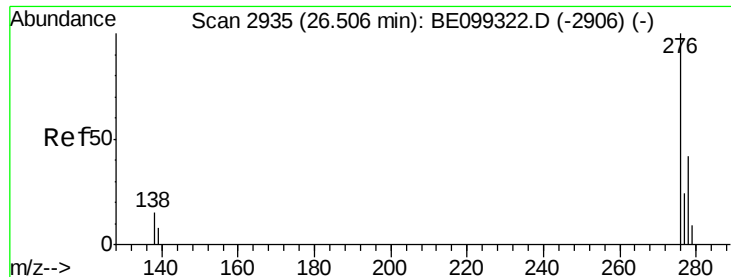
Ion Ratio Lower Upper

149 100

167 7.3 6.0 9.0

279 1.8 1.1 1.7#





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.036 ng

RT: 26.51 min Scan# 2934

Delta R.T. 0.01 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Instrument :

BNA\_E

ClientSampleId :

EXT-074-SW066-042219

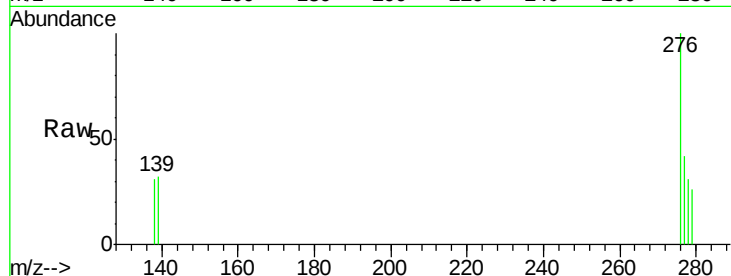
Tot Ion:276 Resp: 3781

Ion Ratio Lower Upper

276 100

138 18.3 12.7 19.1

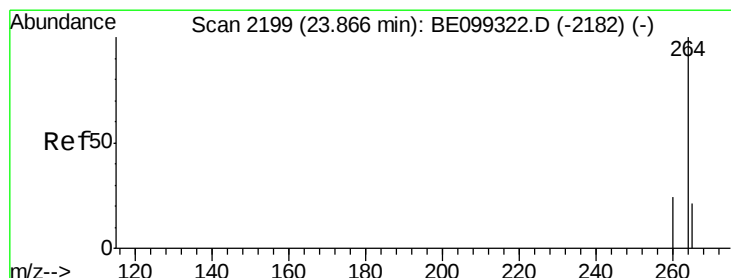
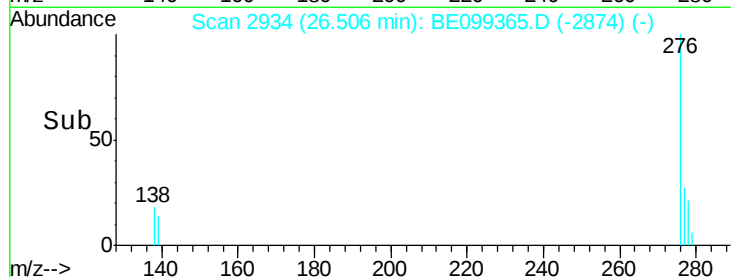
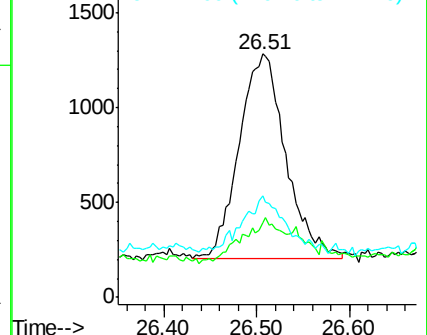
277 17.5 19.6 29.4#



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: 23.86 min Scan# 2197

Delta R.T. 0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

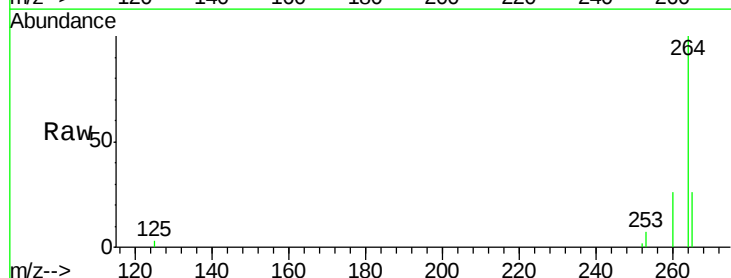
Tgt Ion:264 Resp: 38084

Ion Ratio Lower Upper

264 100

260 25.9 20.1 30.1

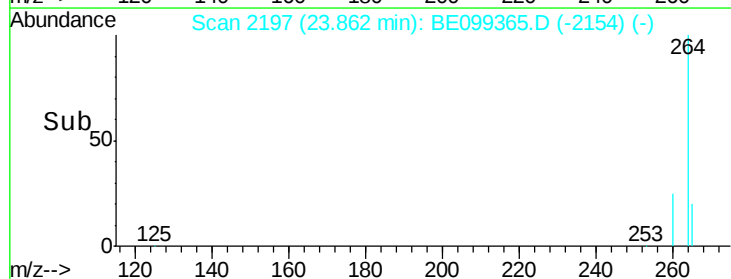
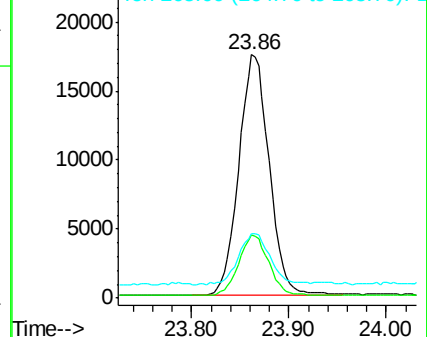
265 26.2 19.9 29.9

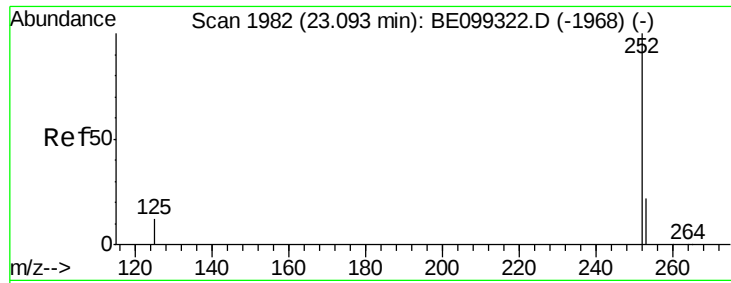


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.064 ng

RT: 23.10 min Scan# 1982

Delta R.T. 0.01 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Instrument :

BNA\_E

ClientSampleId :

EXT-074-SW066-042219

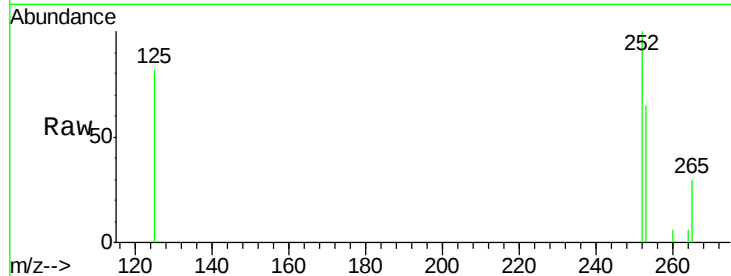
Tot Ion:252 Resp: 7481

Ion Ratio Lower Upper

252 100

253 64.9 17.3 25.9#

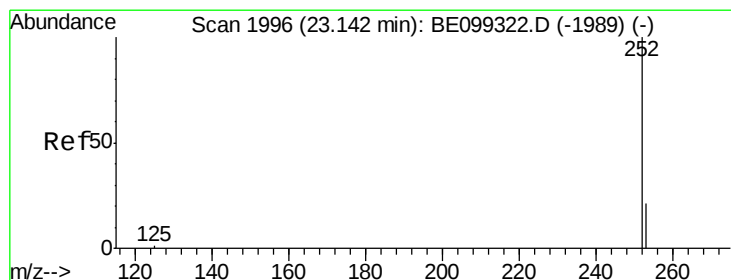
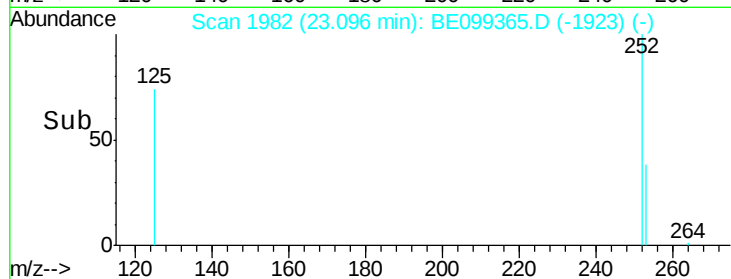
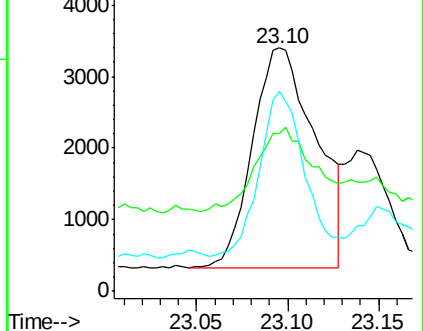
125 82.0 5.8 8.6#



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: 0.064 ng

RT: 23.10 min Scan# 1982

Delta R.T. -0.04 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

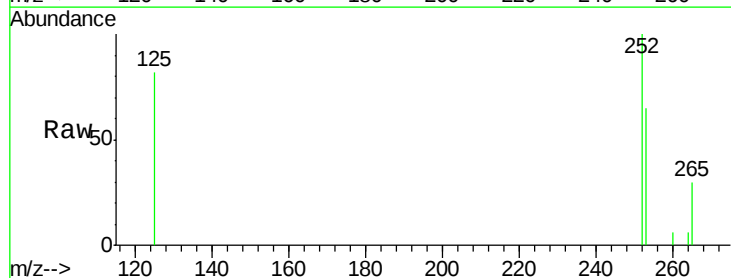
Tgt Ion:252 Resp: 7481

Ion Ratio Lower Upper

252 100

253 64.9 18.4 27.6#

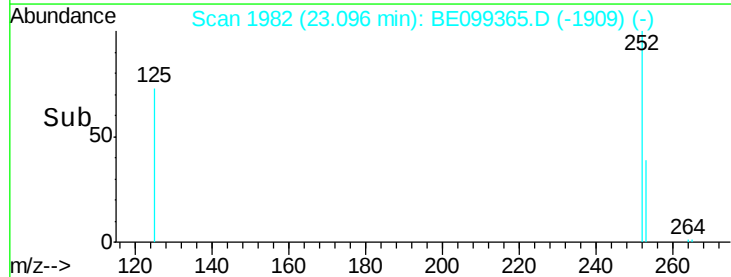
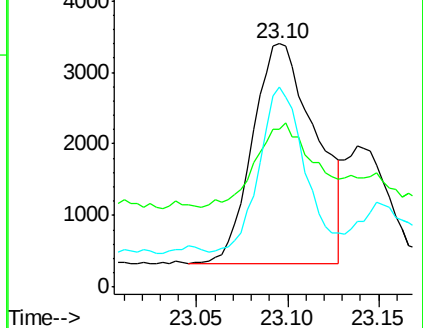
125 82.0 5.4 8.0#

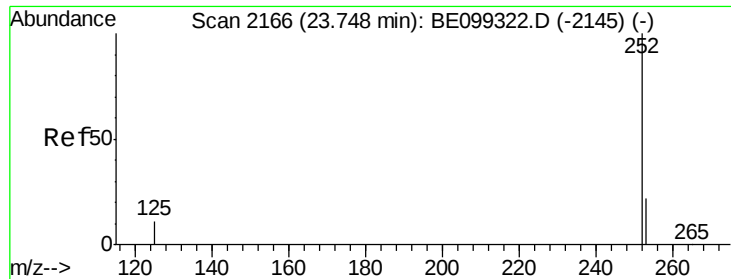


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.051 ng

RT: 23.75 min Scan# 2165

Delta R.T. 0.00 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

Instrument :

BNA\_E

ClientSampleId :

EXT-074-SW066-042219

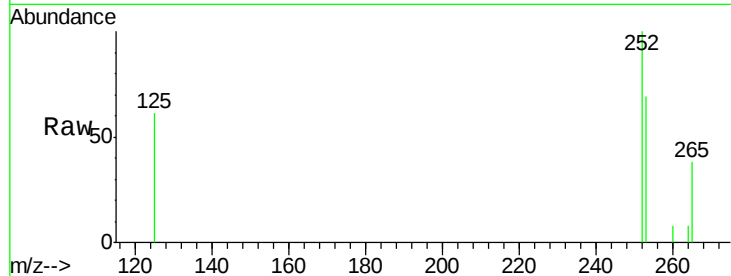
Tot Ion:252 Resp: 5281

Ion Ratio Lower Upper

252 100

253 69.0 17.6 26.4#

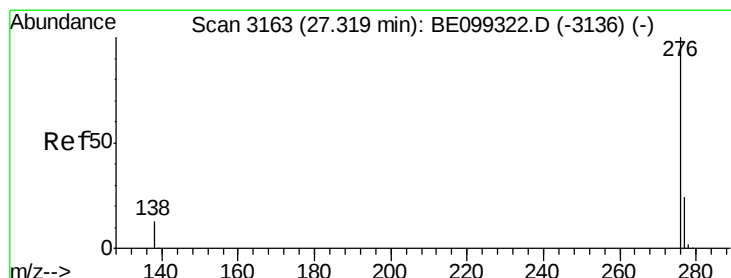
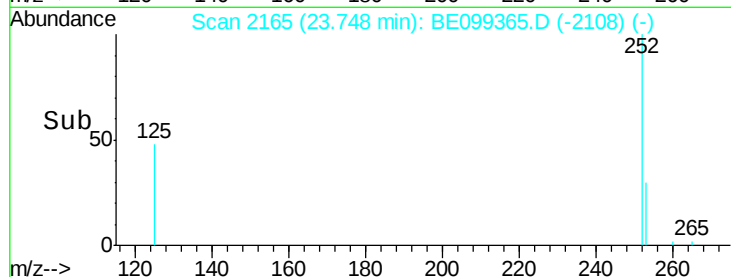
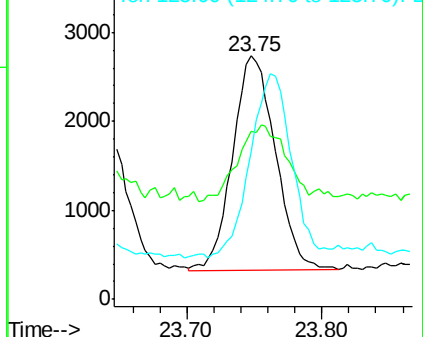
125 60.8 6.5 9.7#



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



#39

Benzo(g,h,i)perylene

Concen: 0.031 ng

RT: 27.32 min Scan# 3163

Delta R.T. 0.02 min

Lab File: BE099365.D

Acq: 25 Apr 2019 17:26

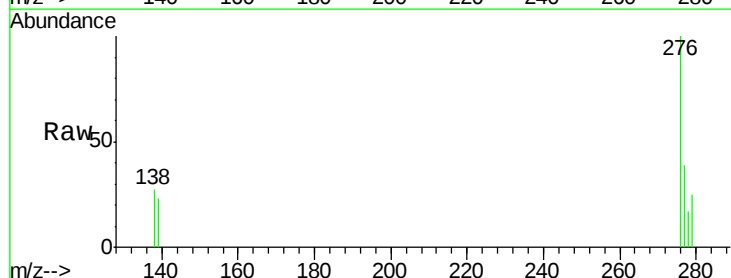
Tgt Ion:276 Resp: 3377

Ion Ratio Lower Upper

276 100

277 38.7 20.0 30.0#

138 27.1 11.1 16.7#



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

