

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052419\  
 Data File : BE099742.D  
 Acq On : 24 May 2019 14:58  
 Operator : JU/SJ  
 Sample : K3010-03  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: May 24 21:33:44 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 | 7.80  | 152  | 1266     | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.60 | 136  | 4270     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.47 | 164  | 3088     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.22 | 188  | 9375     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.40 | 240  | 14996    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.94 | 264  | 17978    | 0.40 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.37  | 112  | 1513     | 0.47 | ng    | 0.00     |
| 5) Phenol-d6                | 6.96  | 99   | 2102     | 0.50 | ng    | -0.01    |
| 8) Nitrobenzene-d5          | 8.97  | 82   | 1549     | 0.42 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10 | 12.21 | 152  | 2737     | 0.37 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol    | 15.97 | 330  | 892      | 0.51 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.10 | 172  | 4048     | 0.35 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.25 | 212  | 47336    | 0.37 | ng    | -0.01    |
| 29) Terphenyl-d14           | 19.85 | 244  | 9322     | 0.35 | ng    | -0.02    |

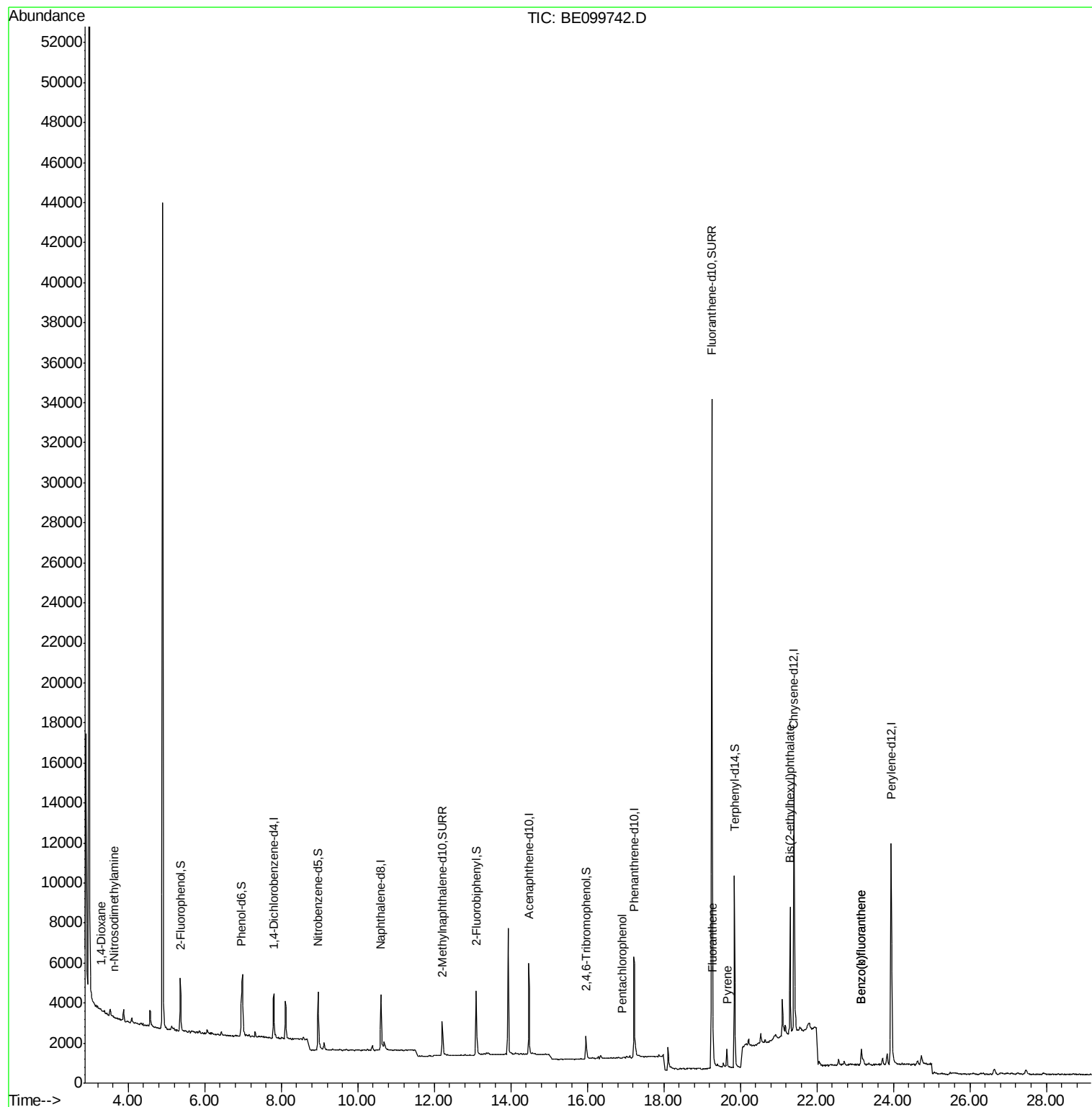
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.29  | 88   | 79       | 0.042 | ng    | # 34   |
| 3) n-Nitrosodimethylamine      | 3.62  | 42   | 21       | 0.020 | ng    | # 1    |
| 22) Pentachlorophenol          | 16.92 | 266  | 7        | 0.185 | ng    | # 78   |
| 26) Fluoranthene               | 19.29 | 202  | 847      | 0.023 | ng    | # 91   |
| 28) Pyrene                     | 19.65 | 202  | 905      | 0.024 | ng    | 94     |
| 32) Bis(2-ethylhexyl)phthalate | 21.31 | 149  | 6881     | 0.140 | ng    | 100    |
| 35) Benzo(b)fluoranthene       | 23.16 | 252  | 1054     | 0.021 | ng    | # 6    |
| 36) Benzo(k)fluoranthene       | 23.16 | 252  | 1054     | 0.021 | ng    | # 4    |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.80 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099742.D

Acq: 24 May 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

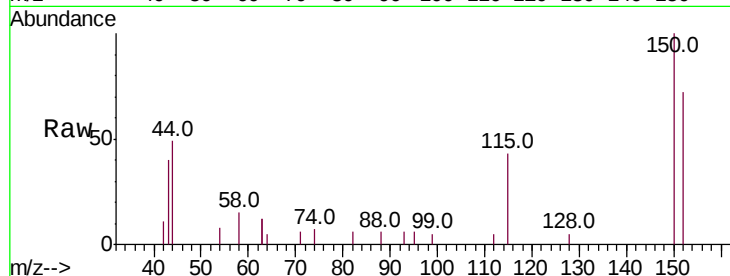
Tot Ion:152 Resp: 1266

Ion Ratio Lower Upper

152 100

150 139.3 109.2 163.8

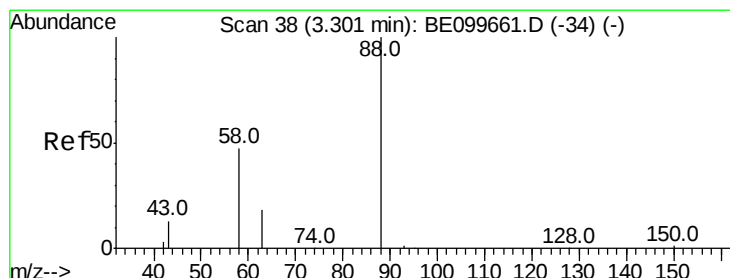
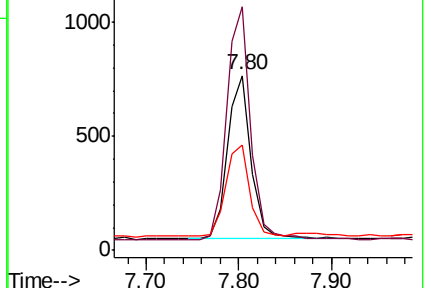
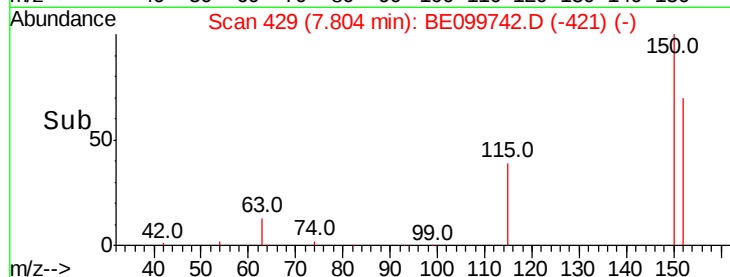
115 60.1 43.7 65.5



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: 0.042 ng

RT: 3.29 min Scan# 37

Delta R.T. -0.01 min

Lab File: BE099742.D

Acq: 24 May 2019 14:58

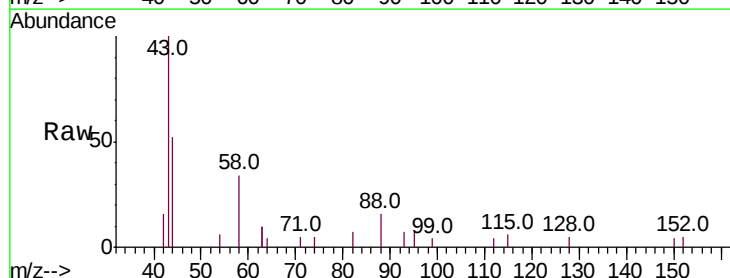
Tgt Ion: 88 Resp: 79

Ion Ratio Lower Upper

88 100

58 0.0 41.8 62.8#

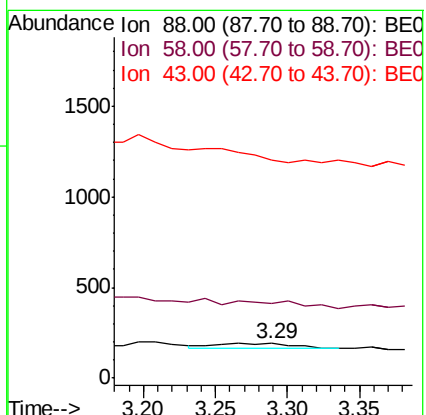
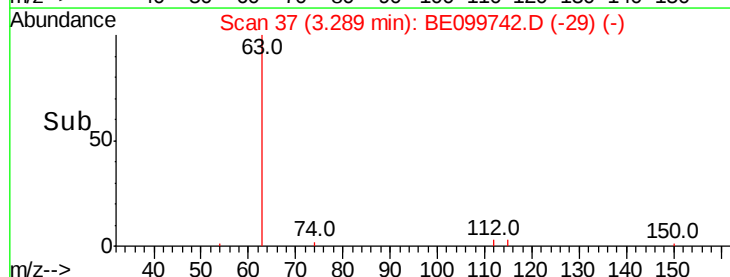
43 0.0 15.0 22.4#



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



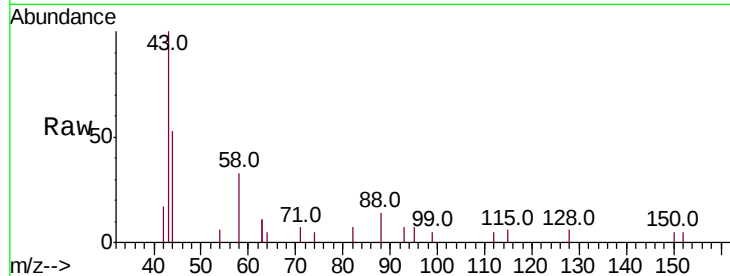


#3

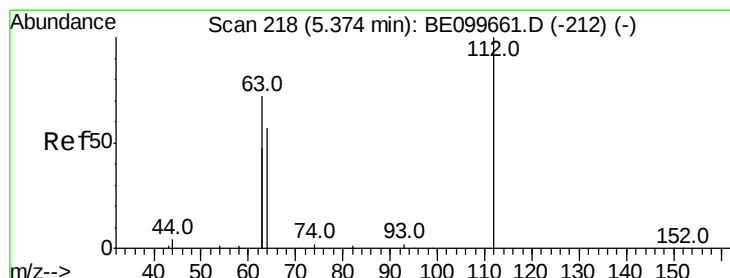
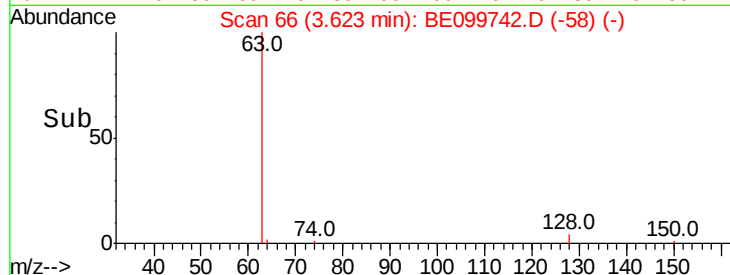
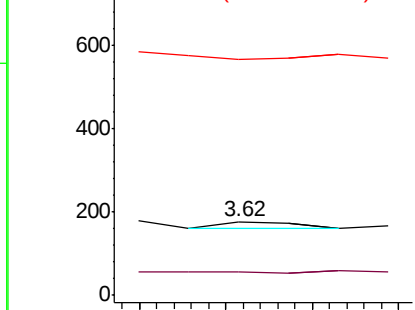
n-Nitrosodimethylamine  
 Concen: 0.020 ng  
 RT: 3.62 min Scan# 66  
 Delta R.T. -0.01 min  
 Lab File: BE099742.D  
 Acq: 24 May 2019 14:58

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion: 42 Resp: 21  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 129.2 193.8#  
 44 0.0 0.0 0.0



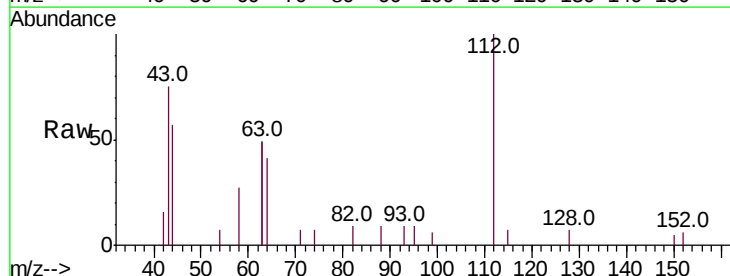
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



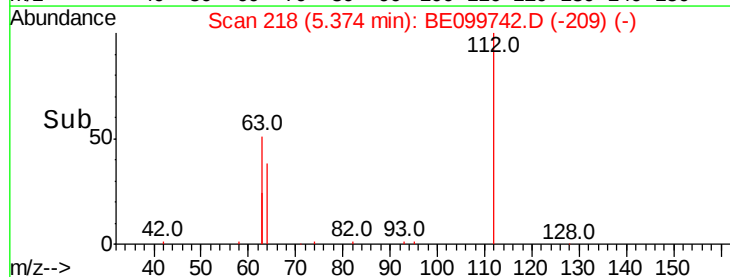
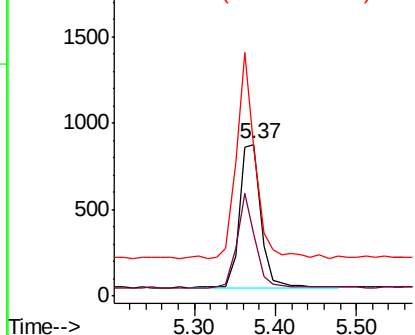
#4

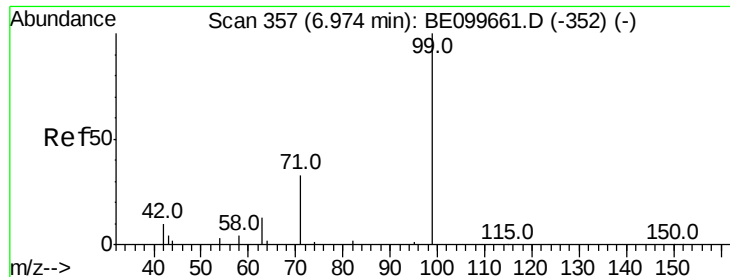
2-Fluorophenol  
 Concen: 0.473 ng  
 RT: 5.37 min Scan# 218  
 Delta R.T. -0.00 min  
 Lab File: BE099742.D  
 Acq: 24 May 2019 14:58

Tgt Ion: 112 Resp: 1513  
 Ion Ratio Lower Upper  
 112 100  
 64 56.2 43.4 65.2  
 63 126.3 96.9 145.3



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: 0.496 ng

RT: 6.96 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099742.D

Acq: 24 May 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

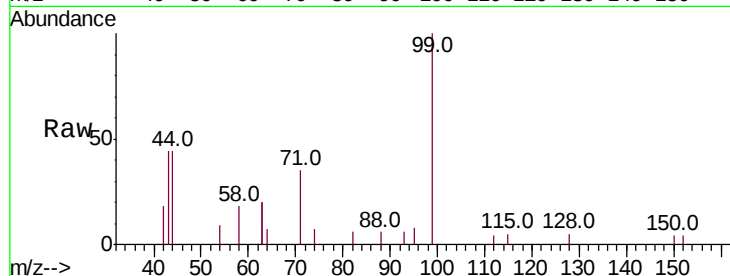
Tot Ion: 99 Resp: 2102

Ion Ratio Lower Upper

99 100

42 17.0 12.2 18.2

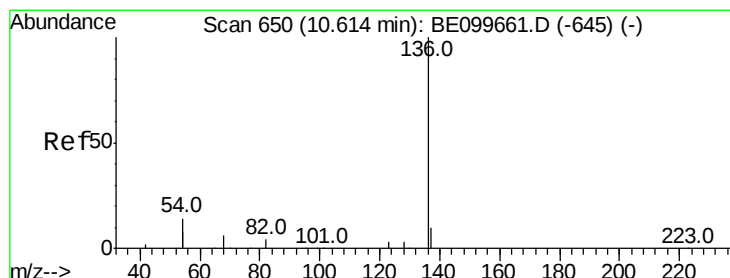
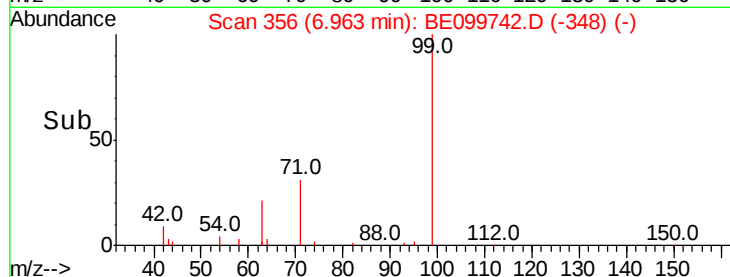
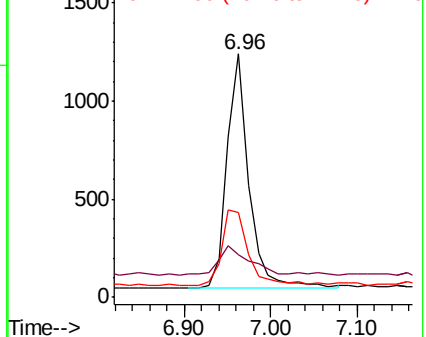
71 41.9 28.9 43.3



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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.01 min

Lab File: BE099742.D

Acq: 24 May 2019 14:58

Tgt Ion: 136 Resp: 4270

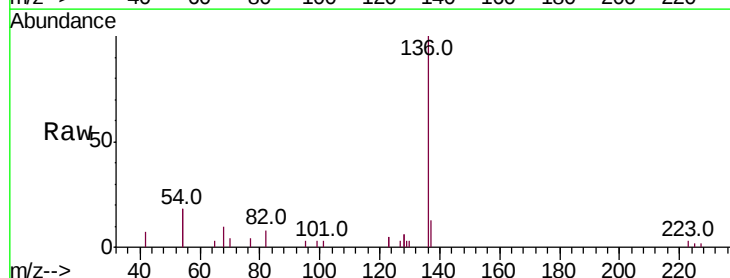
Ion Ratio Lower Upper

136 100

137 13.0 9.0 13.6

54 36.1 22.3 33.5#

68 10.0 6.0 9.0#

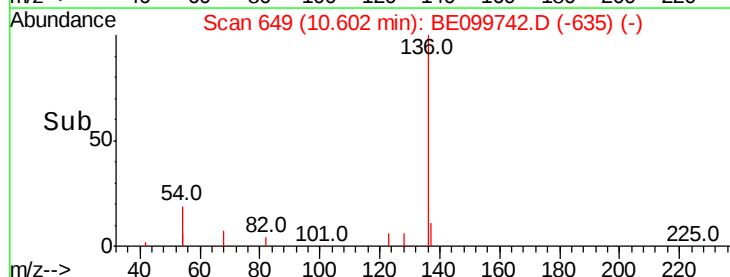
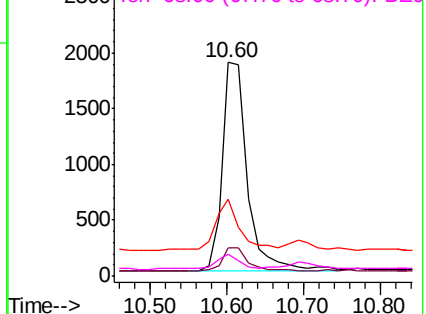


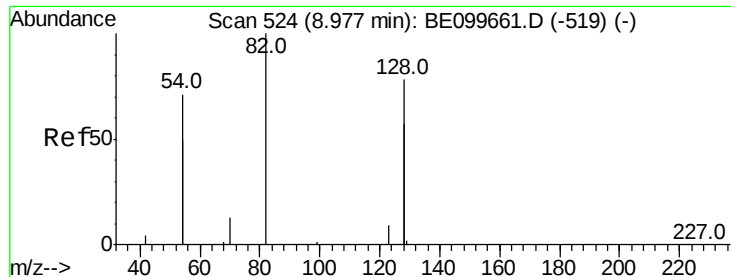
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.419 ng

RT: 8.97 min Scan# 523

Delta R.T. -0.01 min

Lab File: BE099742.D

Acq: 24 May 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

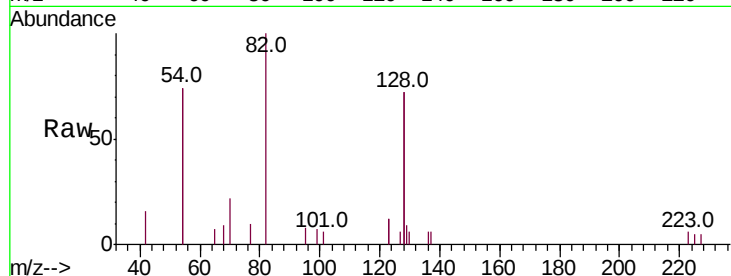
Tot Ion: 82 Resp: 1549

Ion Ratio Lower Upper

82 100

128 143.1 117.7 176.5

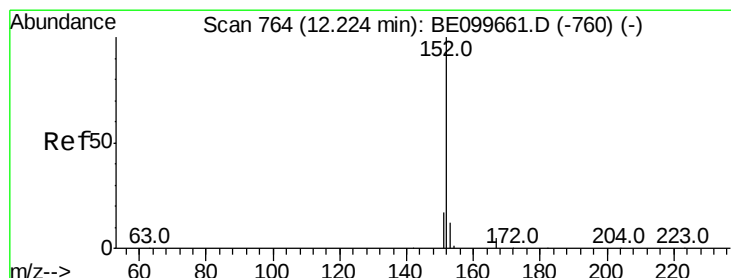
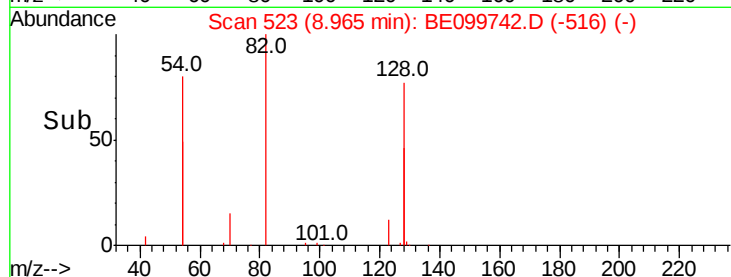
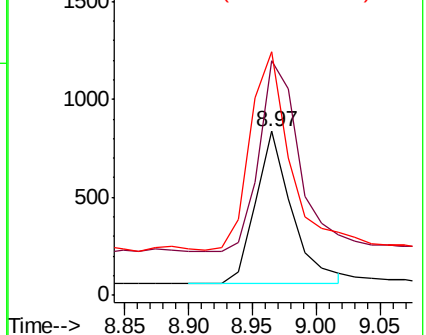
54 148.4 106.6 160.0



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: 0.371 ng

RT: 12.21 min Scan# 763

Delta R.T. -0.01 min

Lab File: BE099742.D

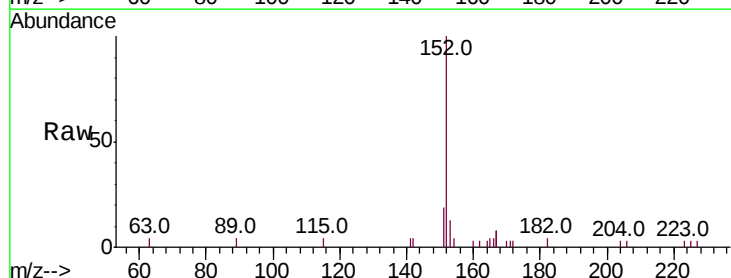
Acq: 24 May 2019 14:58

Tgt Ion: 152 Resp: 2737

Ion Ratio Lower Upper

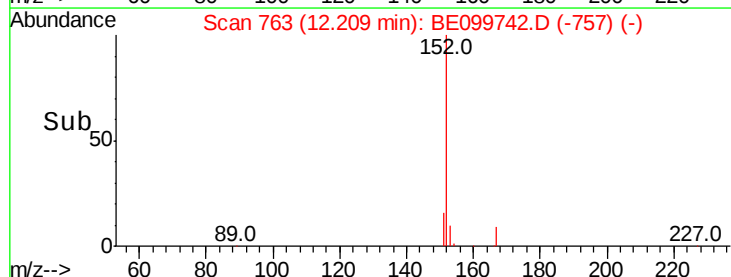
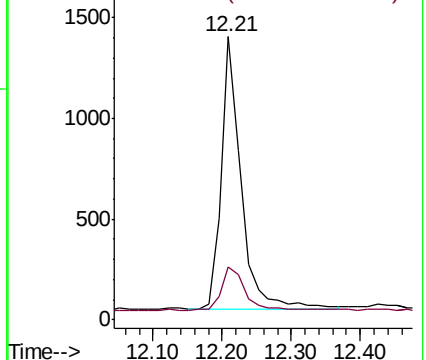
152 100

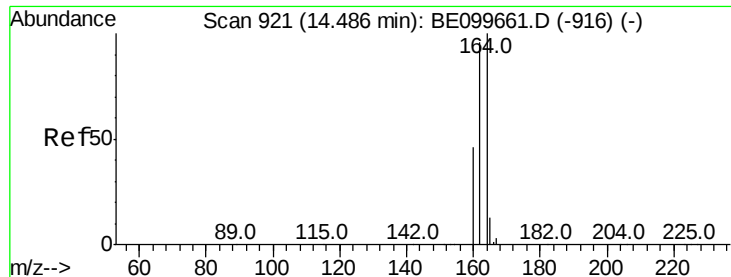
151 19.0 15.0 22.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

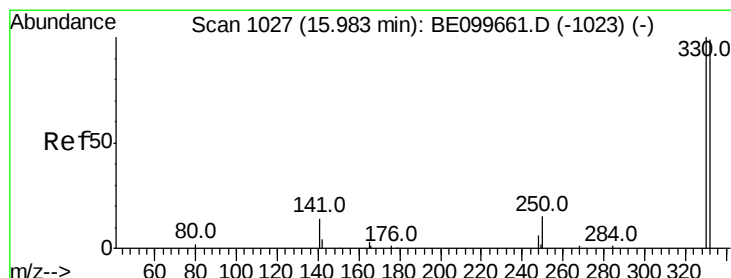
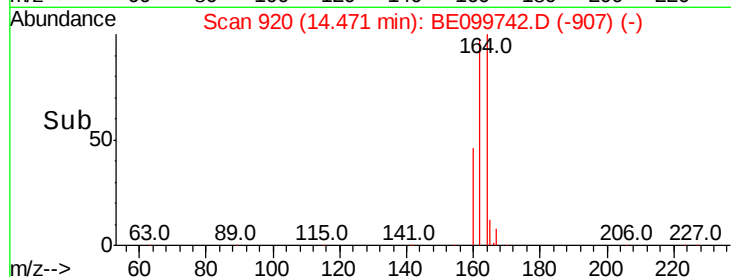
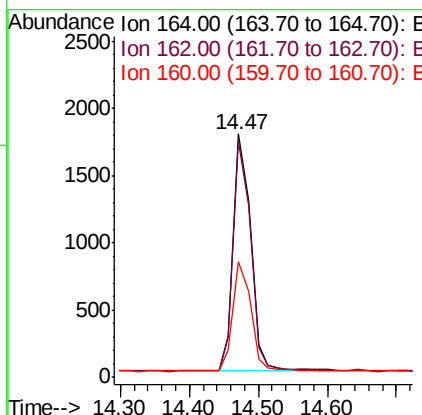
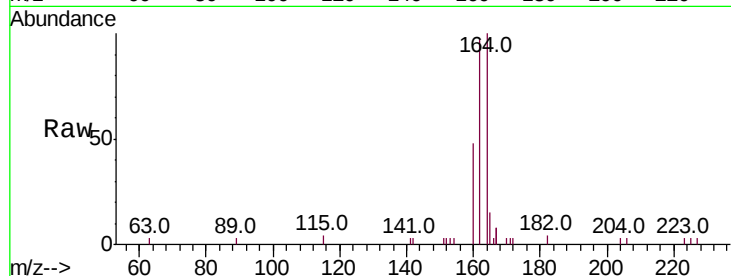




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.47 min Scan# 920  
 Delta R.T. -0.01 min  
 Lab File: BE099742.D  
 Acq: 24 May 2019 14:58

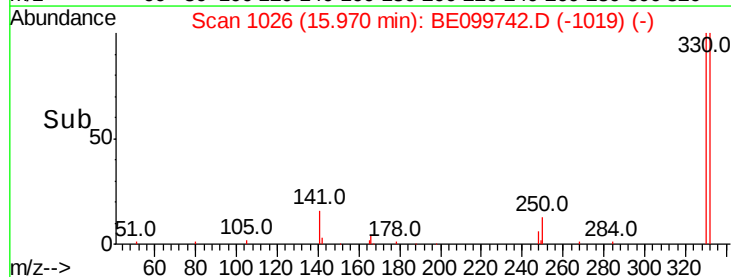
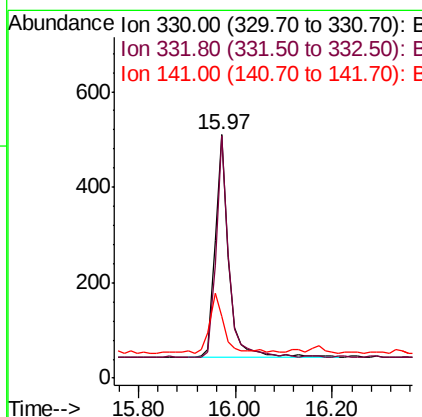
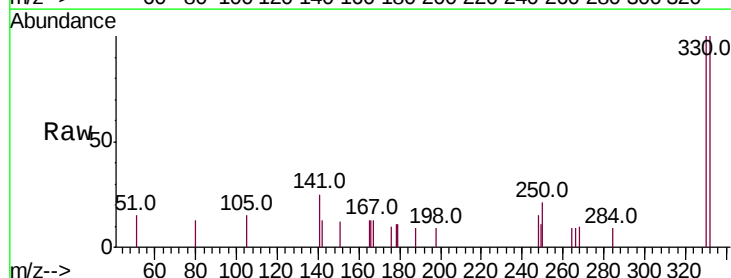
Instrument :  
 BNA\_E  
 ClientSampleId :

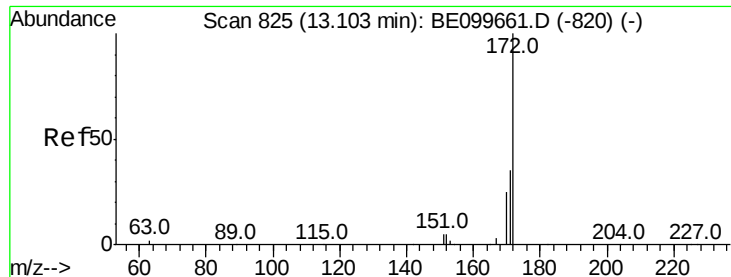
Tot Ion:164 Resp: 3088  
 Ion Ratio Lower Upper  
 164 100  
 162 96.7 76.5 114.7  
 160 47.7 37.4 56.2



#14  
 2,4,6-Tribromophenol  
 Concen: 0.505 ng  
 RT: 15.97 min Scan# 1026  
 Delta R.T. -0.01 min  
 Lab File: BE099742.D  
 Acq: 24 May 2019 14:58

Tgt Ion:330 Resp: 892  
 Ion Ratio Lower Upper  
 330 100  
 332 94.7 77.3 115.9  
 141 27.8 18.9 28.3

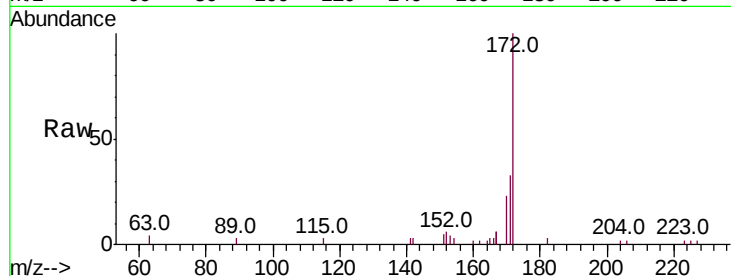




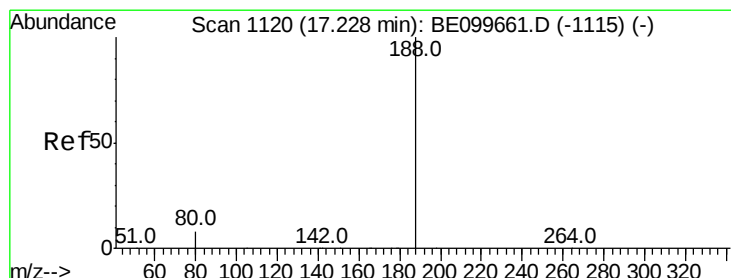
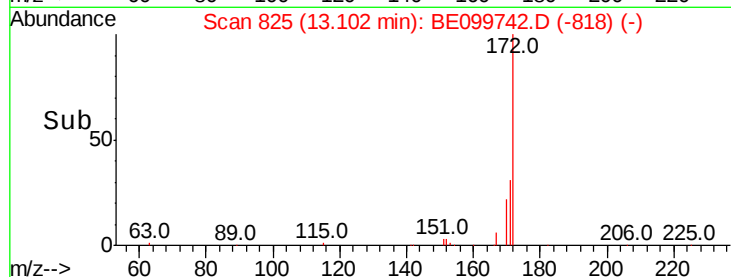
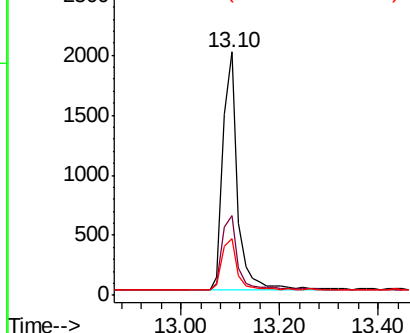
#15  
2-Fluorobiphenyl  
Concen: 0.345 ng  
RT: 13.10 min Scan# 825  
Delta R.T. -0.00 min  
Lab File: BE099742.D  
Acq: 24 May 2019 14:58

Instrument :  
BNA\_E  
ClientSampled :

Tot Ion:172 Resp: 4048  
Ion Ratio Lower Upper  
172 100  
171 32.8 28.7 43.1  
170 23.4 20.9 31.3

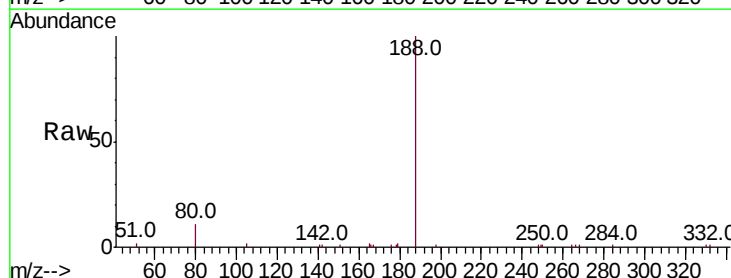


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

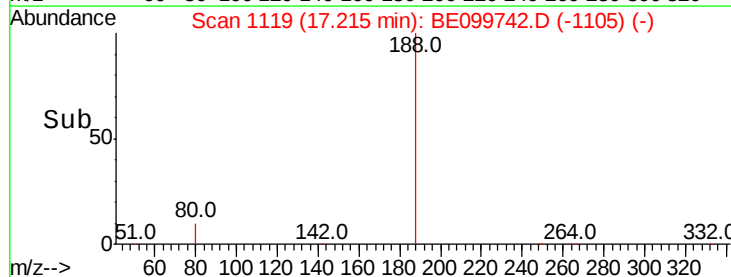
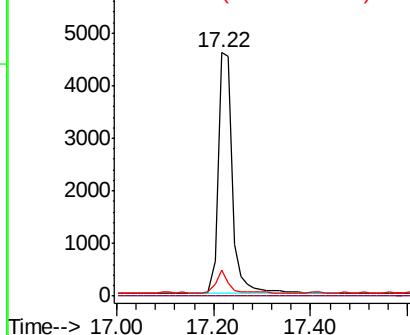


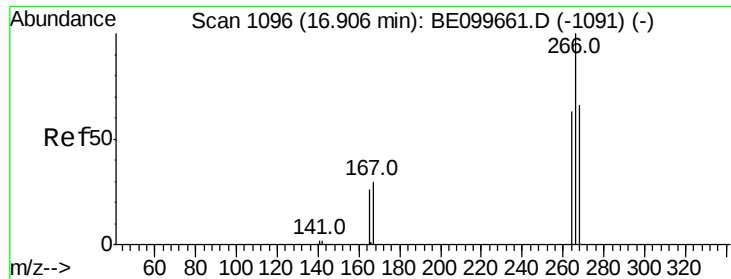
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.22 min Scan# 1119  
Delta R.T. -0.01 min  
Lab File: BE099742.D  
Acq: 24 May 2019 14:58

Tgt Ion:188 Resp: 9375  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 10.9 6.7 10.1#



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BE0  
Ion 80.00 (79.70 to 80.70): BE0





#22

Pentachlorophenol

Concen: 0.185 ng

RT: 16.92 min Scan# 1097

Delta R.T. 0.01 min

Lab File: BE099742.D

Acq: 24 May 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

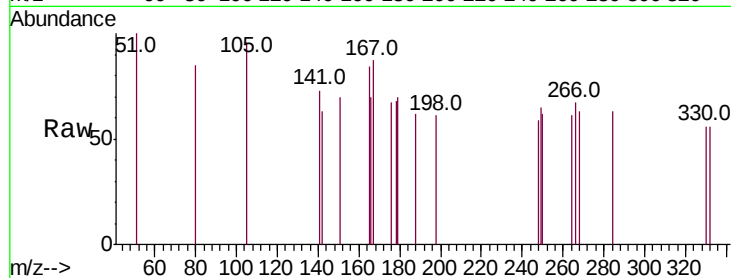
Tot Ion:266 Resp: 7

Ion Ratio Lower Upper

266 100

264 90.6 57.2 85.8#

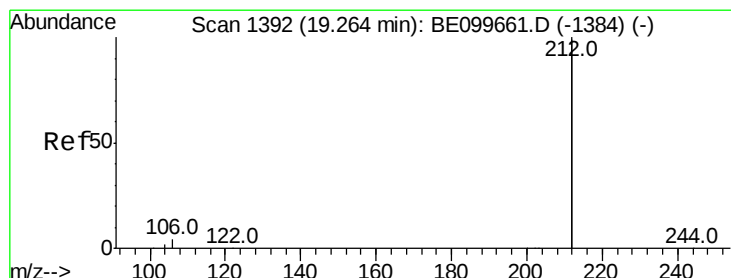
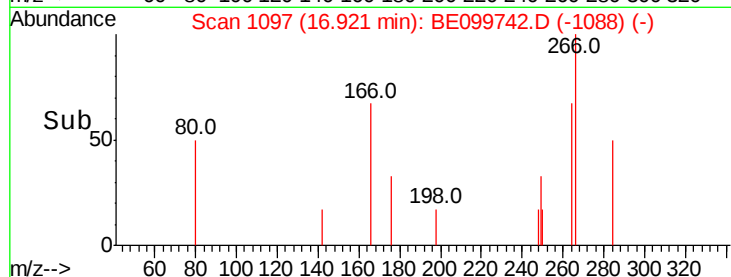
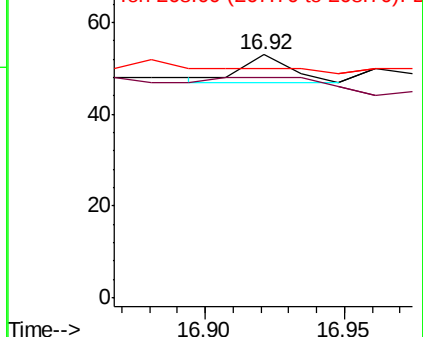
268 94.3 60.5 90.7#



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



#25

Fluoranthene-d10

Concen: 0.370 ng

RT: 19.25 min Scan# 1390

Delta R.T. -0.01 min

Lab File: BE099742.D

Acq: 24 May 2019 14:58

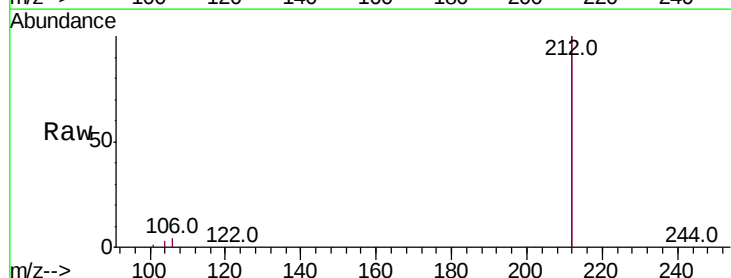
Tgt Ion:212 Resp: 47336

Ion Ratio Lower Upper

212 100

106 1.8 1.4 2.2

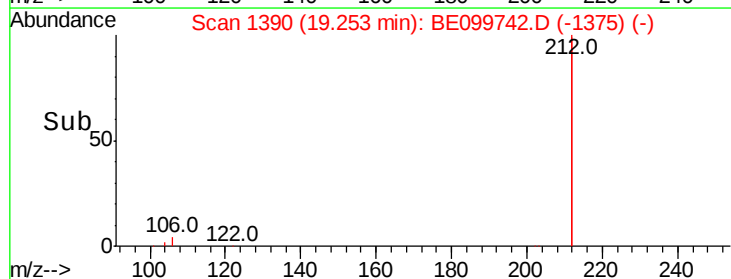
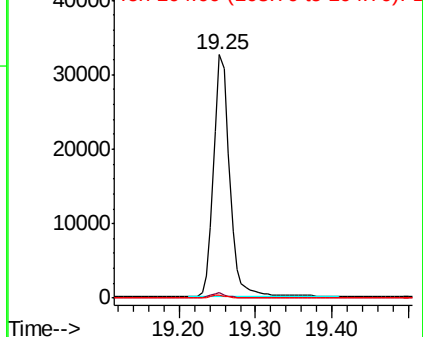
104 1.1 0.8 1.2

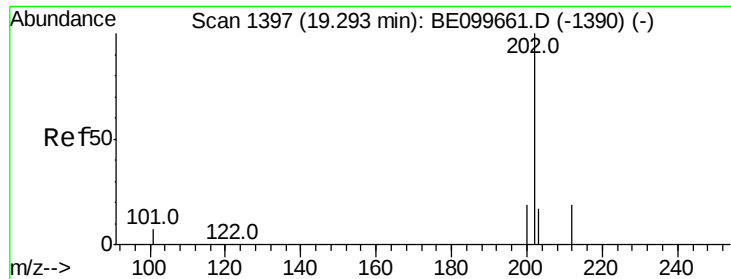


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

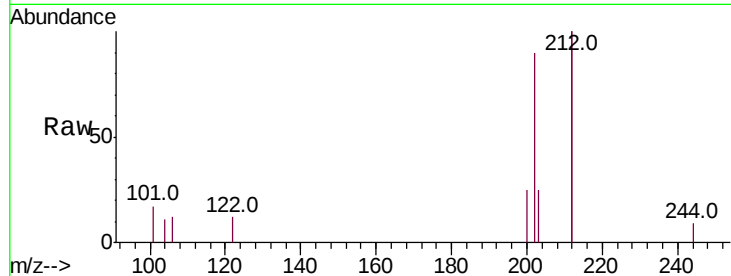




#26  
 Fluoranthene  
 Concen: 0.023 ng  
 RT: 19.29 min Scan# 1396  
 Delta R.T. -0.01 min  
 Lab File: BE099742.D  
 Acq: 24 May 2019 14:58

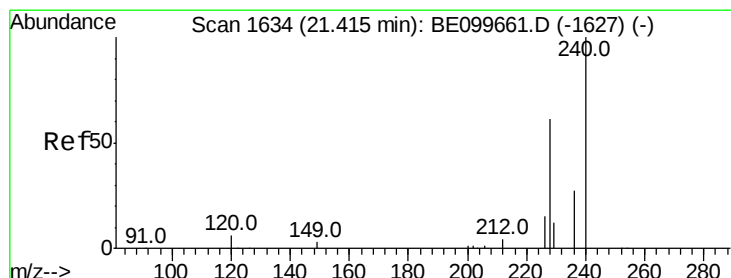
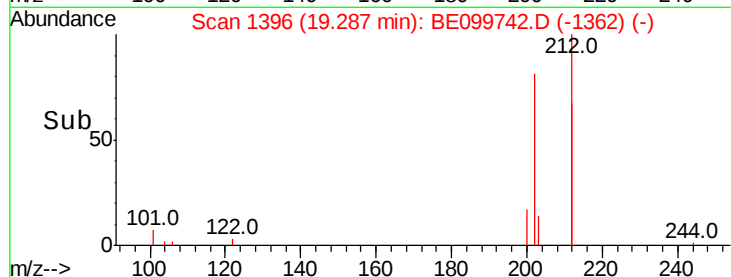
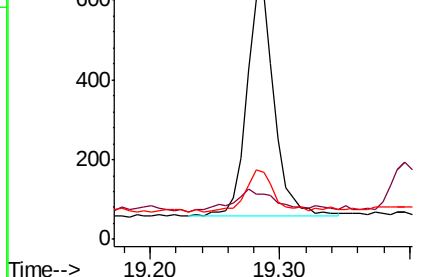
Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:202 Resp: 847  
 Ion Ratio Lower Upper  
 202 100  
 101 14.9 5.2 7.8#  
 203 18.7 13.8 20.6



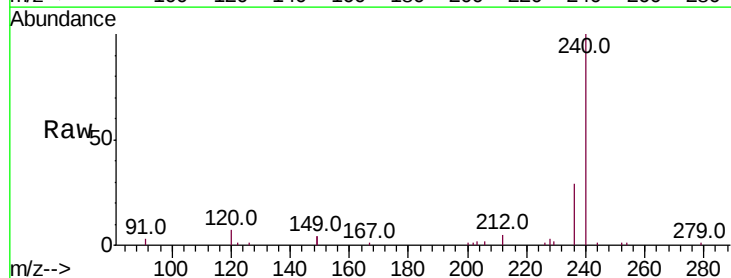
Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

19.29



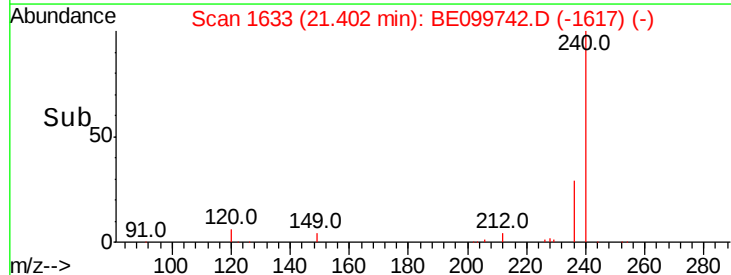
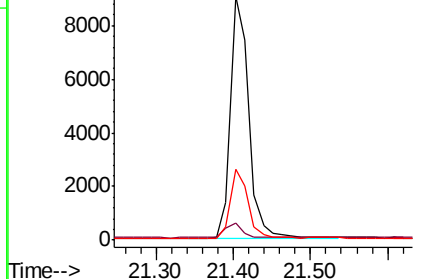
#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.40 min Scan# 1633  
 Delta R.T. -0.01 min  
 Lab File: BE099742.D  
 Acq: 24 May 2019 14:58

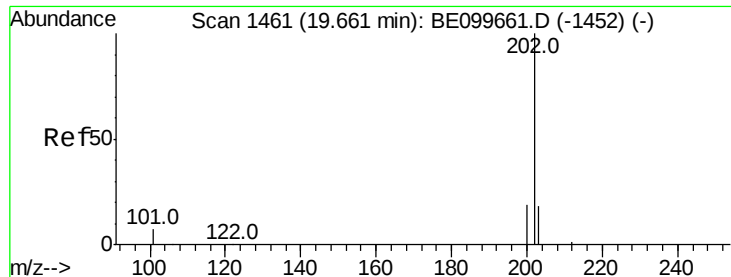
Tgt Ion:240 Resp: 14996  
 Ion Ratio Lower Upper  
 240 100  
 120 6.9 5.4 8.0  
 236 29.3 21.7 32.5



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

21.40

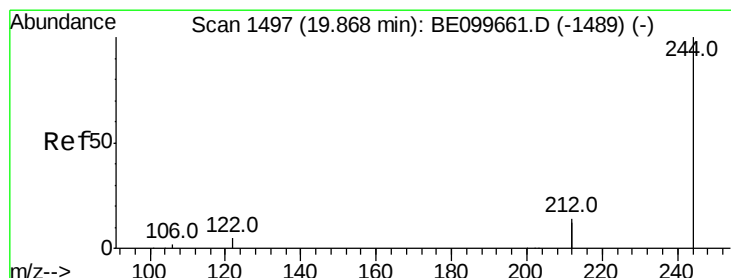
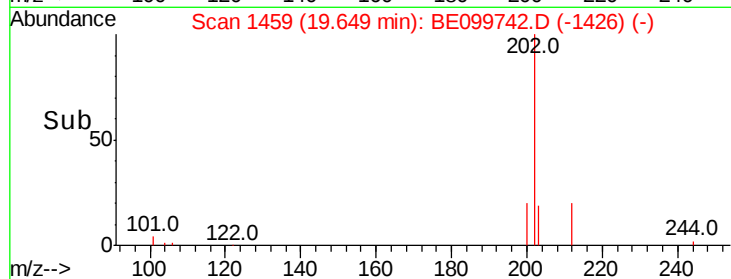
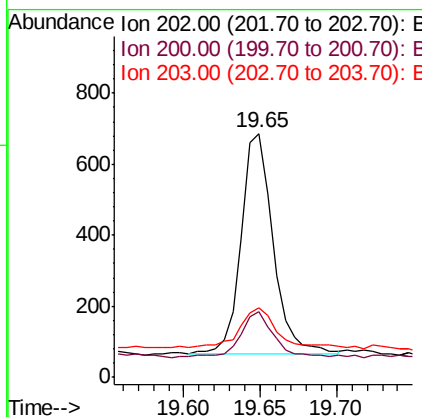
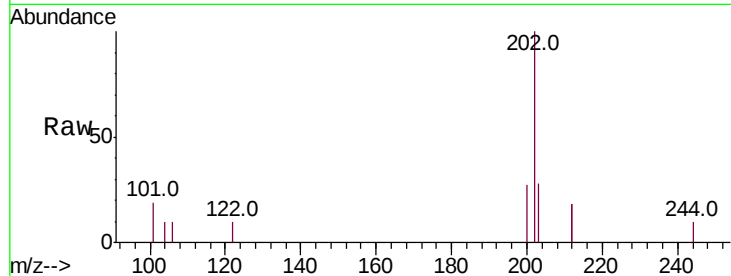




#28  
Pvrene  
Concen: 0.024 ng  
RT: 19.65 min Scan# 1459  
Delta R.T. -0.01 min  
Lab File: BE099742.D  
Acq: 24 May 2019 14:58

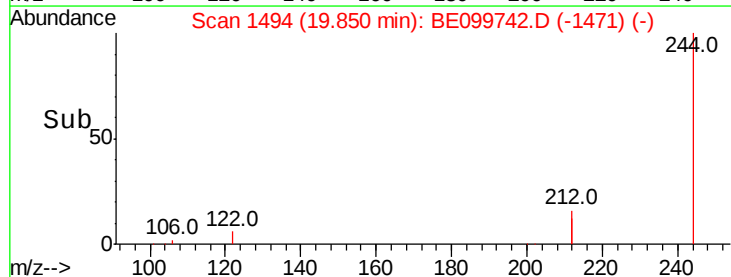
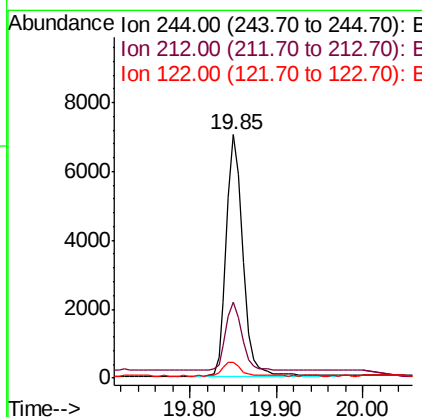
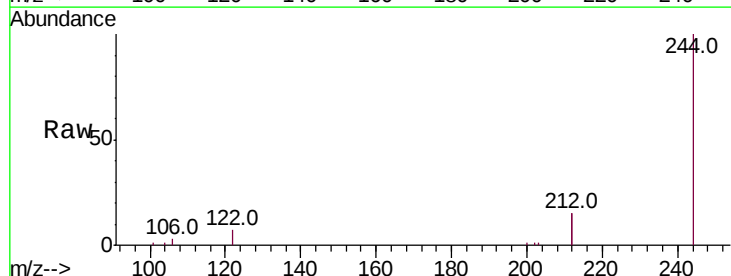
Instrument :  
BNA\_E  
ClientSampleId :

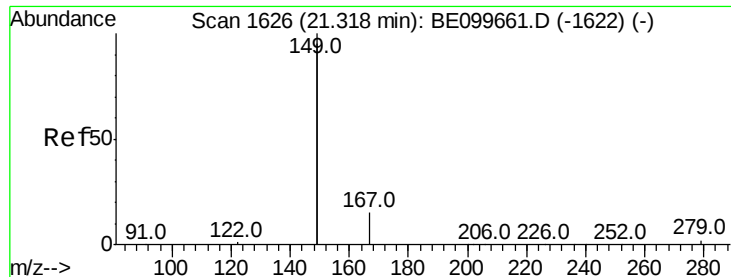
Tot Ion:202 Resp: 905  
Ion Ratio Lower Upper  
202 100  
200 22.1 15.4 23.2  
203 20.1 13.8 20.8



#29  
Terphenyl-d14  
Concen: 0.348 ng  
RT: 19.85 min Scan# 1494  
Delta R.T. -0.02 min  
Lab File: BE099742.D  
Acq: 24 May 2019 14:58

Tgt Ion:244 Resp: 9322  
Ion Ratio Lower Upper  
244 100  
212 31.0 22.5 33.7  
122 6.7 4.3 6.5#

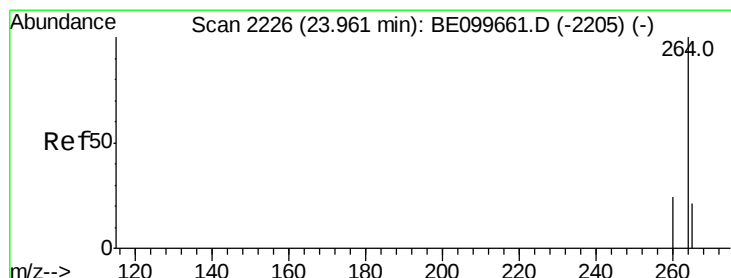
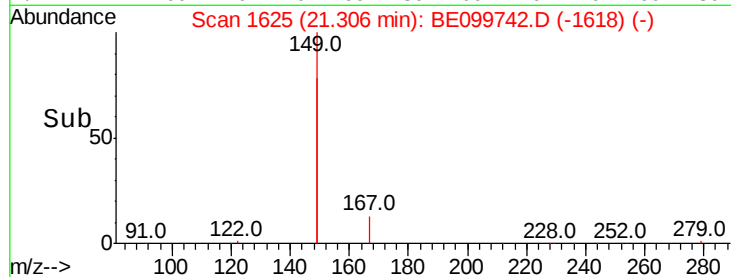
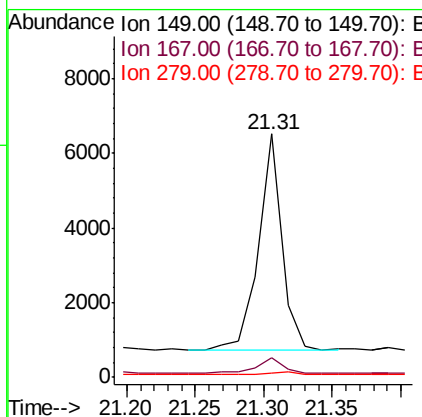
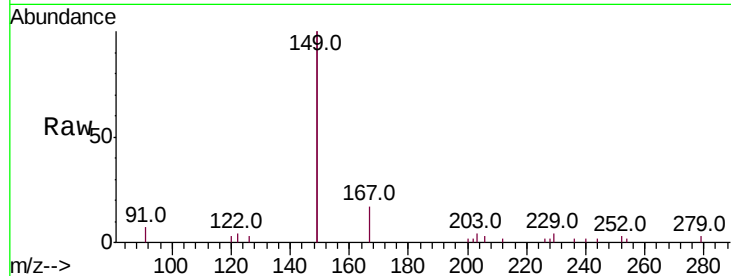




#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.140 ng  
 RT: 21.31 min Scan# 1625  
 Delta R.T. -0.01 min  
 Lab File: BE099742.D  
 Acq: 24 May 2019 14:58

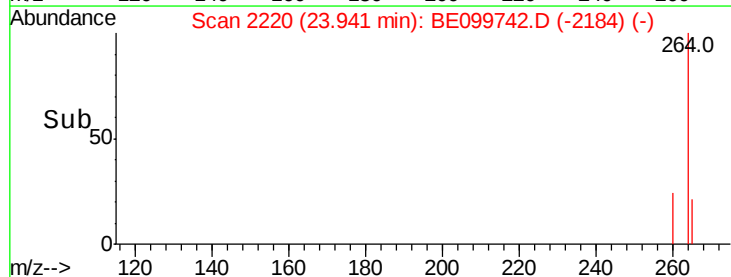
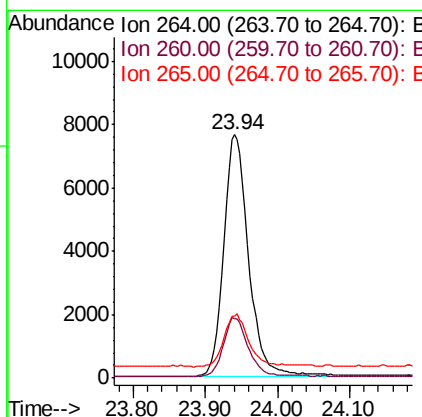
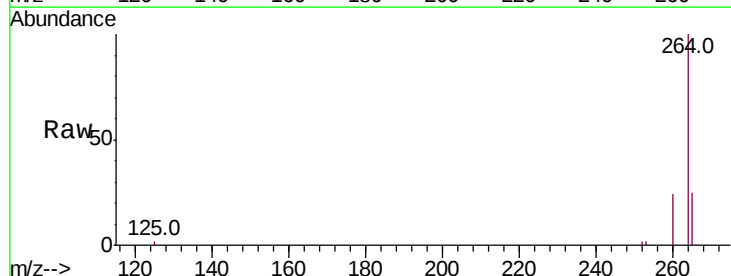
Instrument :  
 BNA\_E  
 ClientSampleId :

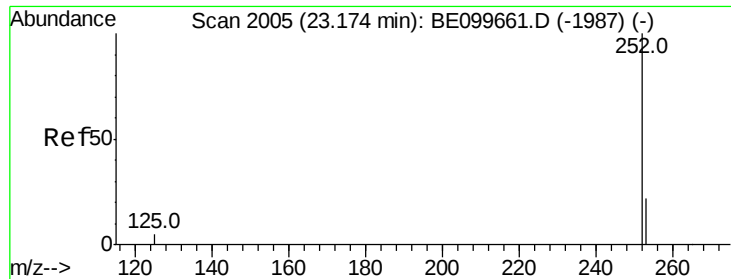
Tot Ion:149 Resp: 6881  
 Ion Ratio Lower Upper  
 149 100  
 167 7.9 6.2 9.4  
 279 1.5 1.2 1.8



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.94 min Scan# 2220  
 Delta R.T. -0.02 min  
 Lab File: BE099742.D  
 Acq: 24 May 2019 14:58

Tgt Ion:264 Resp: 17978  
 Ion Ratio Lower Upper  
 264 100  
 260 24.4 19.6 29.4  
 265 25.3 19.1 28.7





#35

Benzo(b)fluoranthene

Concen: 0.021 ng

RT: 23.16 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BE099742.D

Acq: 24 May 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

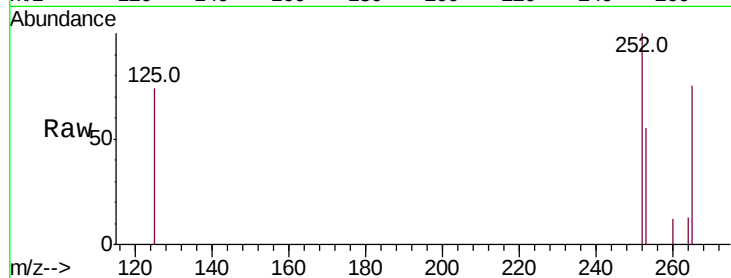
Tot Ion:252 Resp: 1054

Ion Ratio Lower Upper

252 100

253 54.9 18.2 27.4#

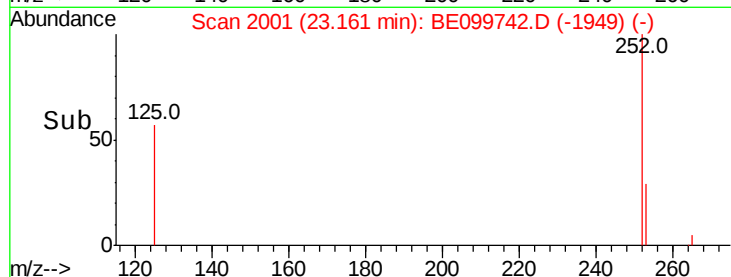
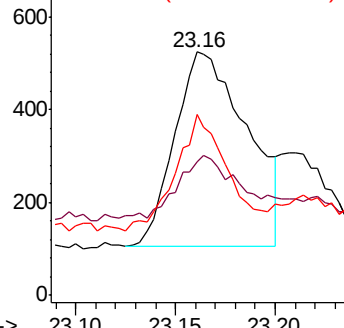
125 74.3 4.5 6.7#



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: 0.021 ng

RT: 23.16 min Scan# 2001

Delta R.T. -0.07 min

Lab File: BE099742.D

Acq: 24 May 2019 14:58

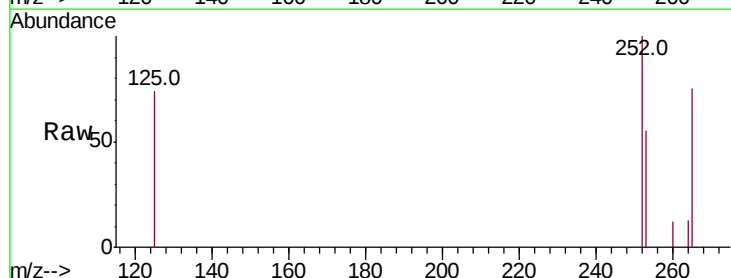
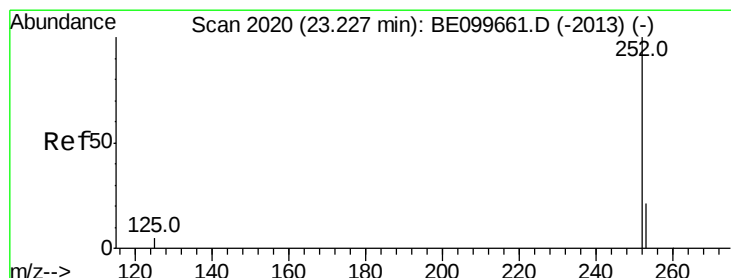
Tgt Ion:252 Resp: 1054

Ion Ratio Lower Upper

252 100

253 54.9 17.8 26.8#

125 74.3 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

