

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052319\  
 Data File : BF114536.D  
 Acq On : 23 May 2019 21:08  
 Operator : JU/SJ  
 Sample : K2978-01RE 2X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 24 07:19:19 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 23 03:49:15 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.81  | 152  | 198906   | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 8.09  | 136  | 794063   | 20.00 | ng    | -0.03    |
| 39) Acenaphthene-d10      | 9.85  | 164  | 386884   | 20.00 | ng    | -0.03    |
| 64) Phenanthrene-d10      | 11.33 | 188  | 748628   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 13.99 | 240  | 422222   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.46 | 264  | 556669   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 5.44  | 112 | 297805 | 24.09 | ng | -0.03 |
| 7) Phenol-d6                | 6.46  | 99  | 406181 | 27.79 | ng | -0.03 |
| 23) Nitrobenzene-d5         | 7.37  | 82  | 229822 | 16.24 | ng | -0.03 |
| 42) 2,4,6-Tribromophenol    | 10.64 | 330 | 99668  | 24.92 | ng | -0.02 |
| 45) 2-Fluorobiphenyl        | 9.17  | 172 | 462603 | 18.09 | ng | -0.02 |
| 79) Terphenyl-d14           | 12.92 | 244 | 435520 | 21.26 | ng | -0.02 |

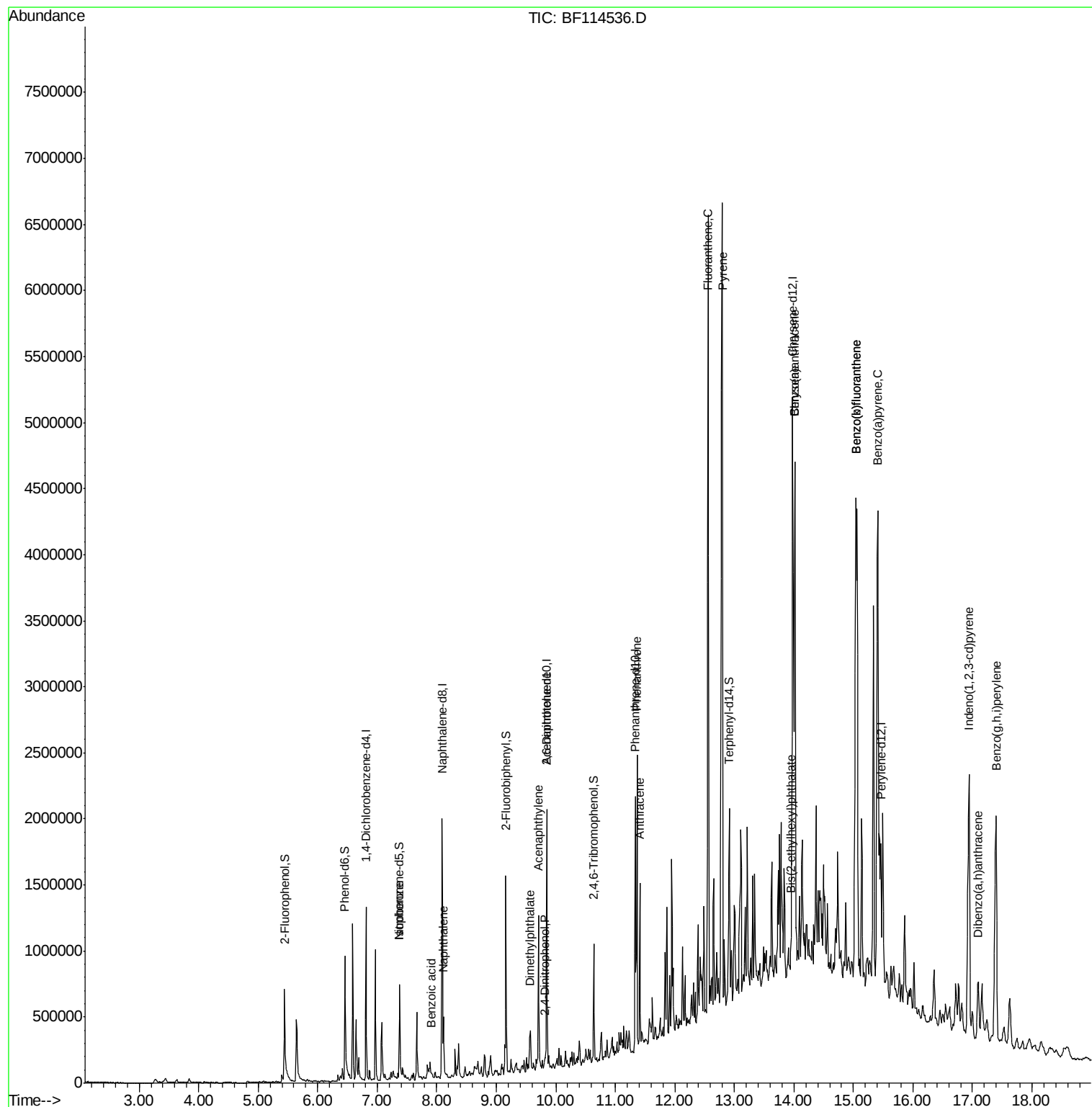
|                                |       |     |         |         |    |      |
|--------------------------------|-------|-----|---------|---------|----|------|
| Target Compounds               |       |     |         | Qvalue  |    |      |
| 25) Isophorone                 | 7.37  | 82  | 229822  | 8.758   | ng | # 65 |
| 31) Naphthalene                | 8.12  | 128 | 158849  | 4.283   | ng | 99   |
| 32) Benzoic acid               | 7.91  | 122 | 3541    | 7.407   | ng | # 80 |
| 49) Acenaphthylene             | 9.71  | 152 | 462527  | 12.090  | ng | 97   |
| 50) Dimethylphthalate          | 9.56  | 163 | 58400   | 2.056   | ng | 100  |
| 51) 2,6-Dinitrotoluene         | 9.85  | 165 | 52293   | 8.301   | ng | # 24 |
| 54) 2,4-Dinitrophenol          | 9.81  | 184 | 152     | 6.789   | ng | # 1  |
| 71) Phenanthrene               | 11.36 | 178 | 864956  | 23.748  | ng | 97   |
| 72) Anthracene                 | 11.41 | 178 | 495082  | 13.533  | ng | 98   |
| 75) Fluoranthene               | 12.56 | 202 | 2999553 | 76.477  | ng | 97   |
| 78) Pyrene                     | 12.80 | 202 | 3378339 | 99.463  | ng | 98   |
| 81) Benzo(a)anthracene         | 14.02 | 228 | 1666177 | 61.012  | ng | 94   |
| 83) Chrysene                   | 14.02 | 228 | 1666177 | 62.239  | ng | 98   |
| 84) Bis(2-ethylhexyl)phthalate | 13.95 | 149 | 55137   | 2.949   | ng | # 97 |
| 86) Indeno(1,2,3-cd)pyrene     | 16.95 | 276 | 1563068 | 66.065  | ng | 94   |
| 88) Benzo(b)fluoranthene       | 15.04 | 252 | 3469570 | 97.287  | ng | 97   |
| 89) Benzo(k)fluoranthene       | 15.04 | 252 | 3469570 | 105.907 | ng | 98   |
| 90) Benzo(a)pyrene             | 15.41 | 252 | 2109007 | 67.194  | ng | 99   |
| 91) Dibenzo(a,h)anthracene     | 17.10 | 278 | 318377  | 12.207  | ng | 98   |
| 92) Benzo(a,h,i)perylene       | 17.40 | 276 | 1640881 | 62.780  | ng | 99   |

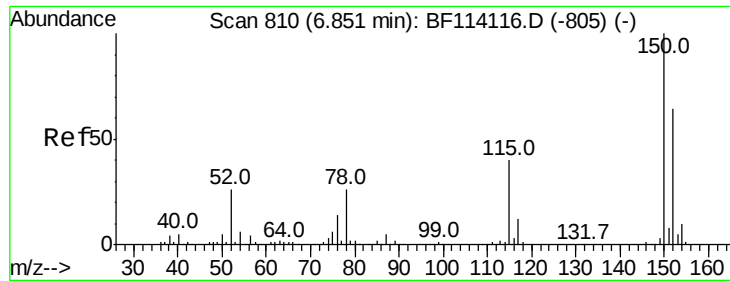
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052319\  
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Instrument :  
BNA\_F  
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Quant Time: May 24 07:19:19 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 23 03:49:15 2019  
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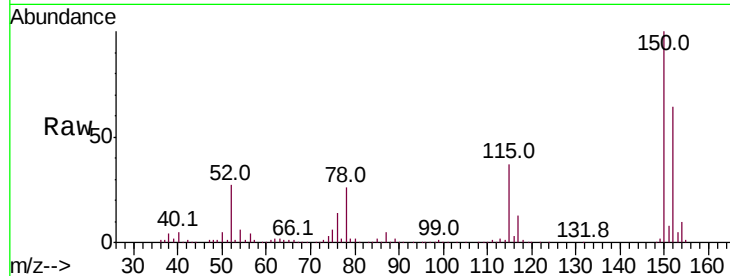


#1

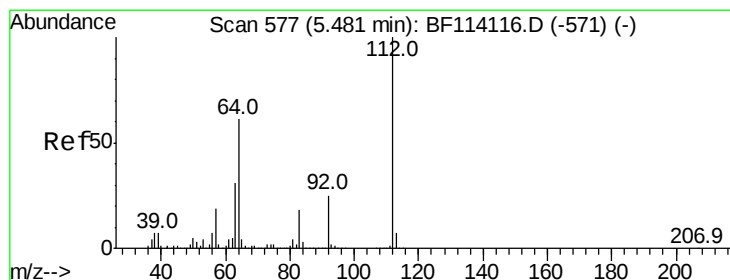
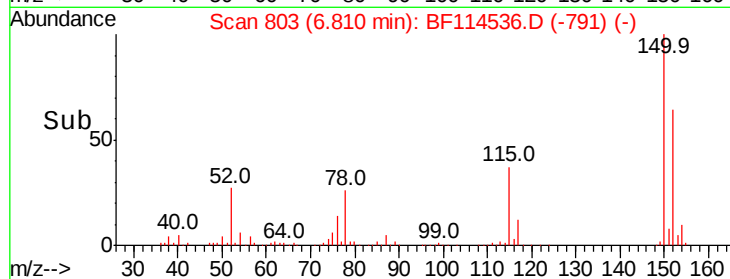
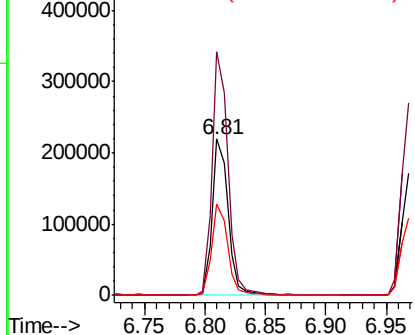
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.81 min Scan# 803  
Delta R.T. -0.03 min  
Lab File: BF114536.D  
Acq: 23 May 2019 21:08

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.6 | 124.3 | 186.5 |
| 115     | 58.1  | 49.1  | 73.7  |



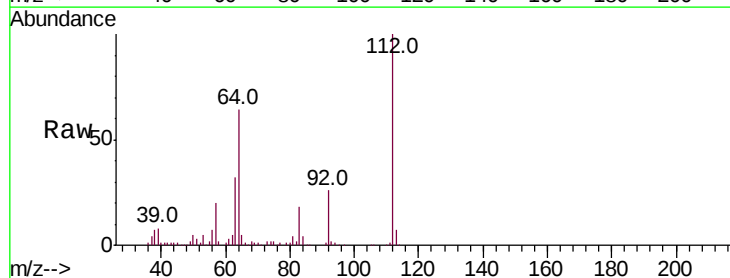
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



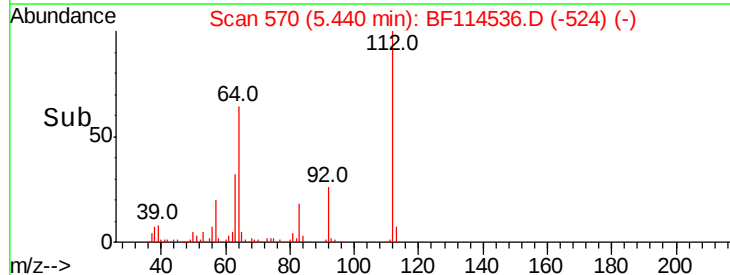
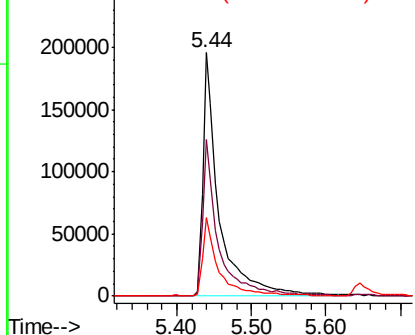
#5

2-Fluorophenol  
Concen: 24.094 ng  
RT: 5.44 min Scan# 570  
Delta R.T. -0.03 min  
Lab File: BF114536.D  
Acq: 23 May 2019 21:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.1  | 49.0  | 73.6  |
| 63      | 32.5  | 24.6  | 37.0  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 27.785 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA\_F

ClientSampleId :

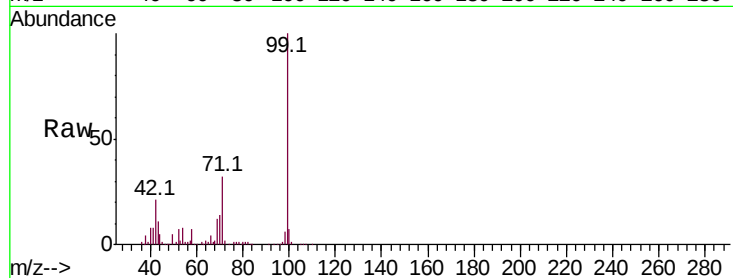
Tot Ion: 99 Resp: 406181

Ion Ratio Lower Upper

99 100

42 21.2 17.9 26.9

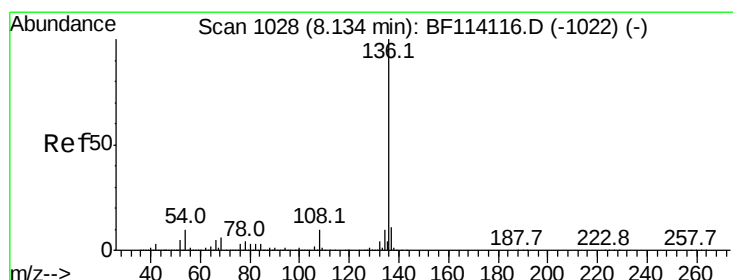
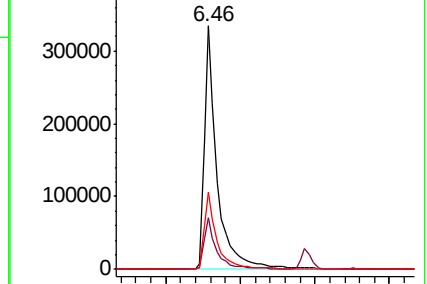
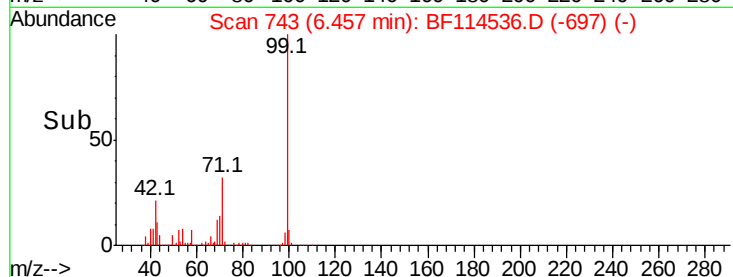
71 31.5 26.2 39.2



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Tgt Ion: 136 Resp: 794063

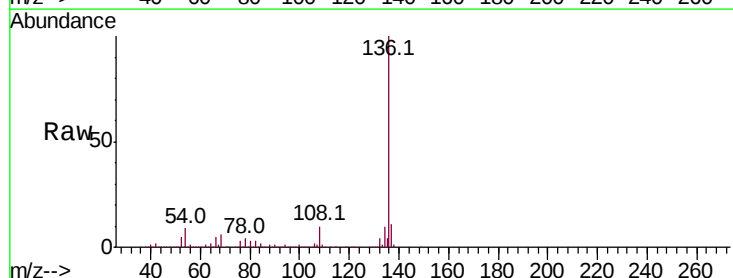
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 9.2 7.8 11.8

68 6.1 5.1 7.7

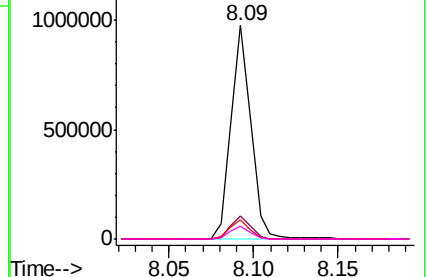
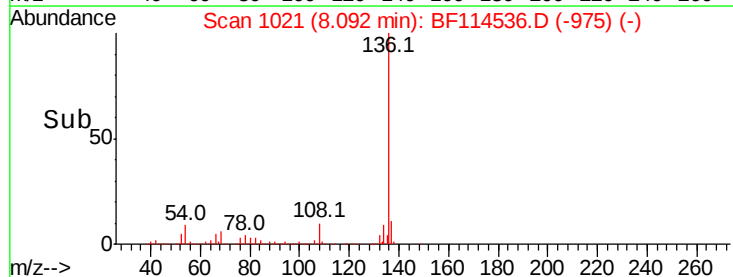


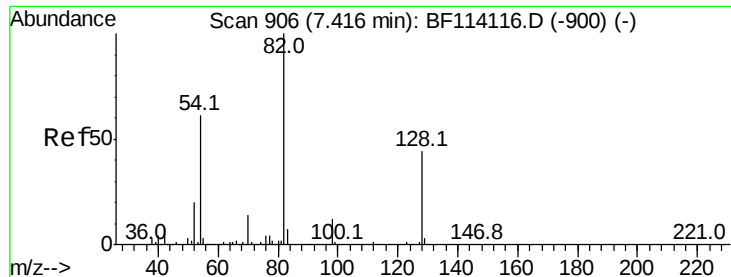
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





#23

Nitrobenzene-d5

Concen: 16.243 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA\_F

ClientSampleId :

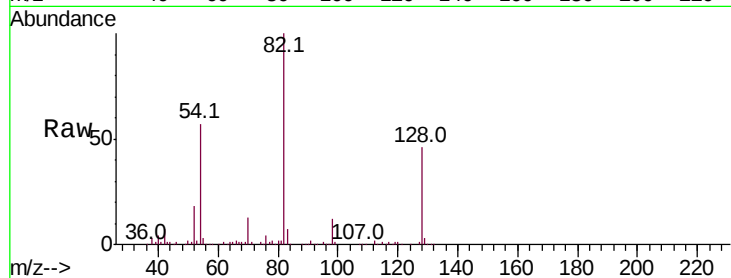
Tot Ion: 82 Resp: 229822

Ion Ratio Lower Upper

82 100

128 45.9 35.5 53.3

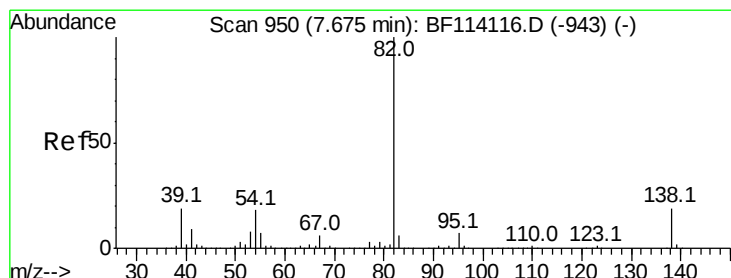
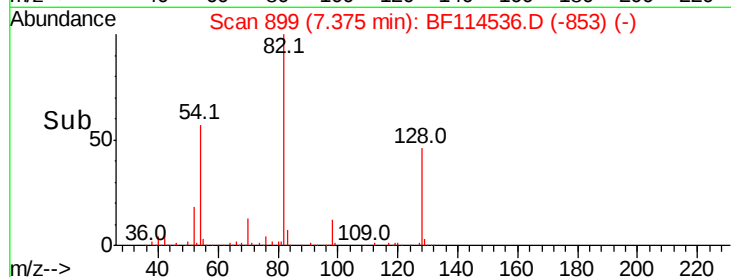
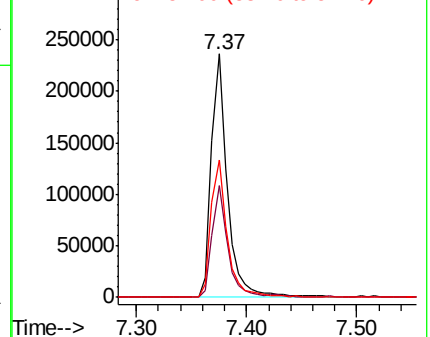
54 56.6 48.5 72.7



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#25

Isophorone

Concen: 8.758 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.29 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

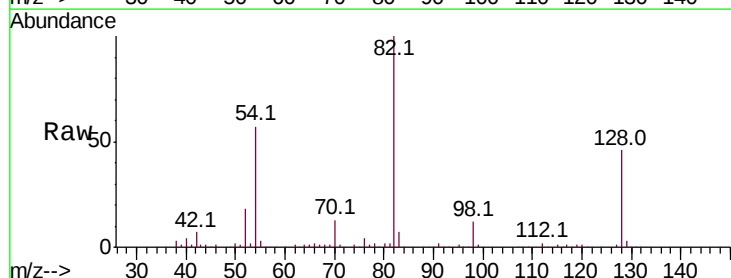
Tgt Ion: 82 Resp: 229822

Ion Ratio Lower Upper

82 100

95 0.5 5.6 8.4#

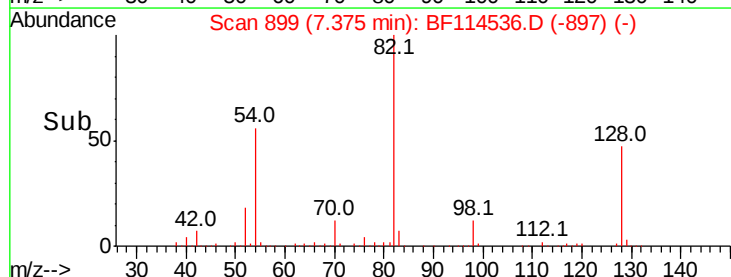
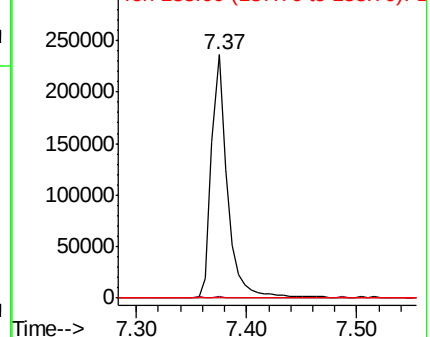
138 0.0 14.8 22.2#

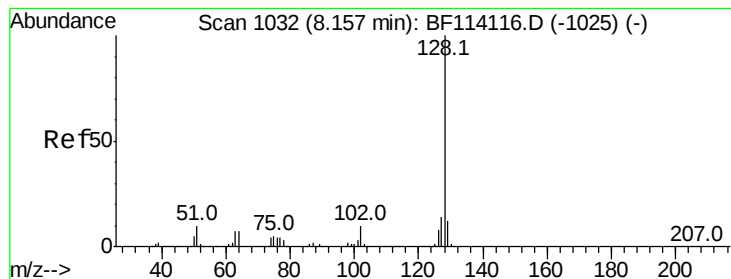


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#31

Naphthalene

Concen: 4.283 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA\_F

ClientSampleId :

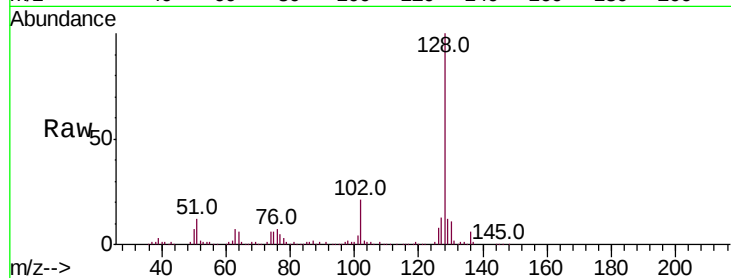
Tot Ion:128 Resp: 158849

Ion Ratio Lower Upper

128 100

129 11.8 9.6 14.4

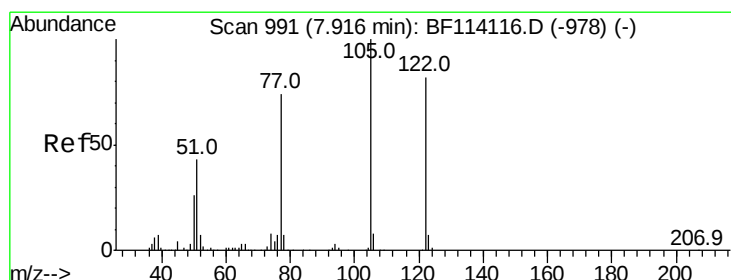
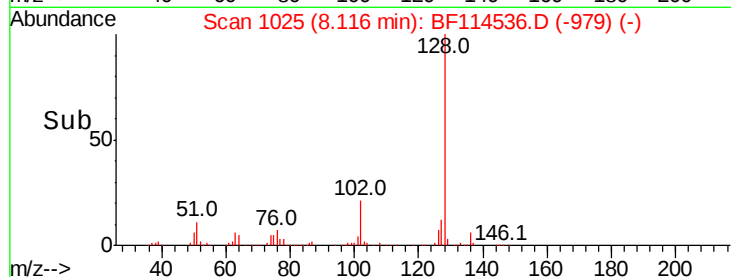
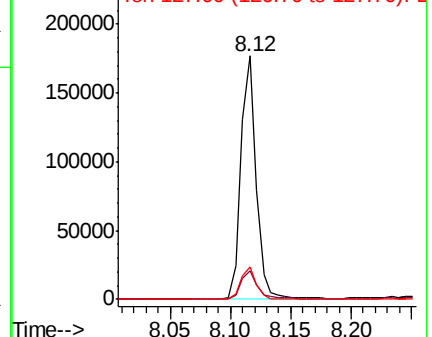
127 13.4 11.3 16.9



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



#32

Benzoic acid

Concen: 7.407 ng

RT: 7.91 min Scan# 990

Delta R.T. -0.02 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

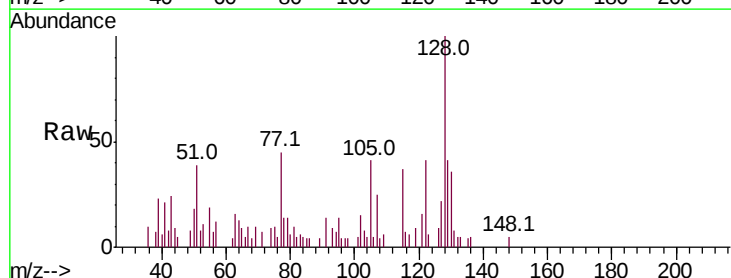
Tgt Ion:122 Resp: 3541

Ion Ratio Lower Upper

122 100

105 99.7 99.9 139.9#

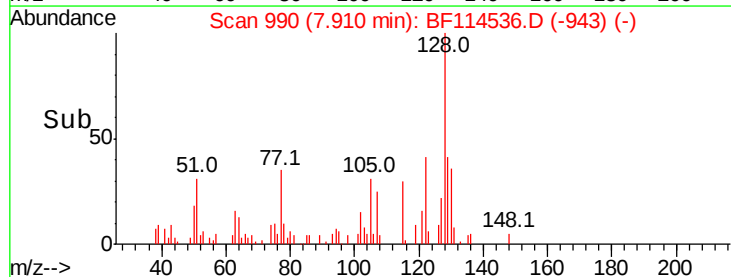
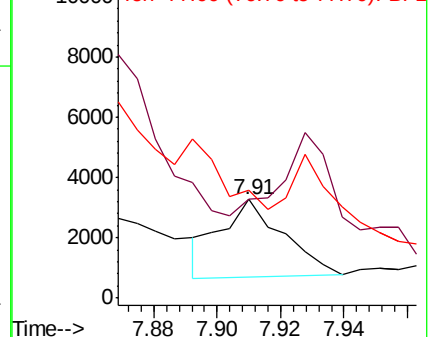
77 109.6 69.4 109.4#

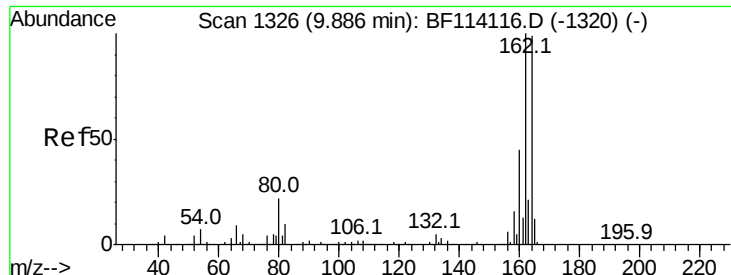


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

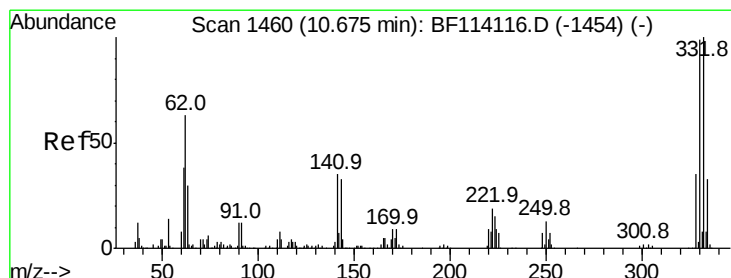
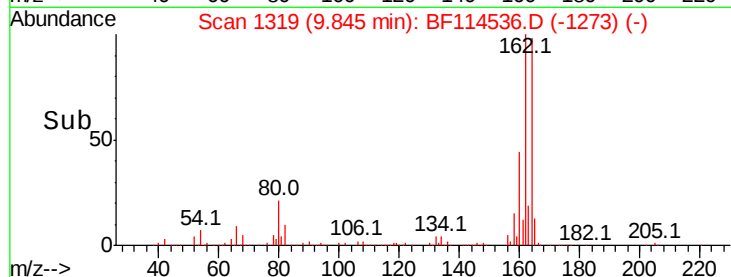
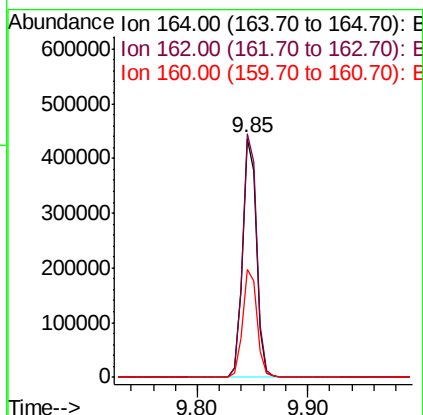
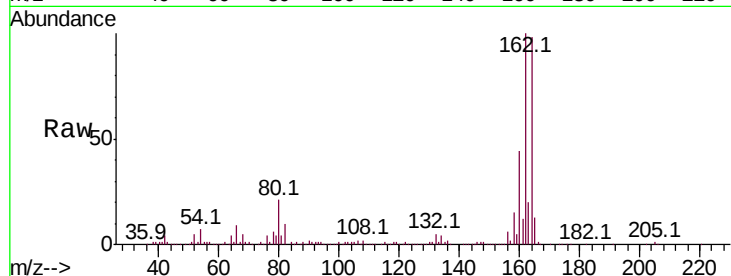




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.03 min  
 Lab File: BF114536.D  
 Acq: 23 May 2019 21:08

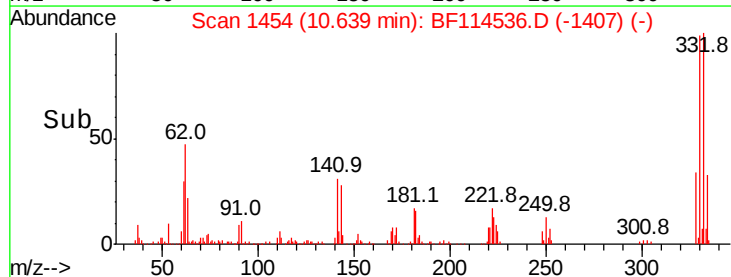
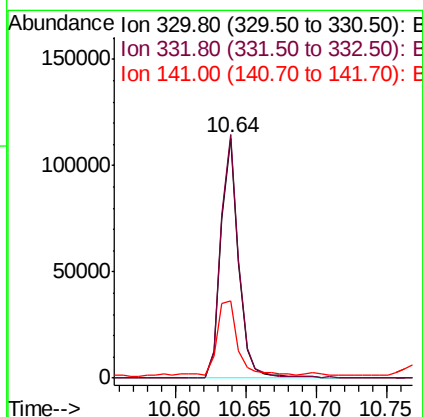
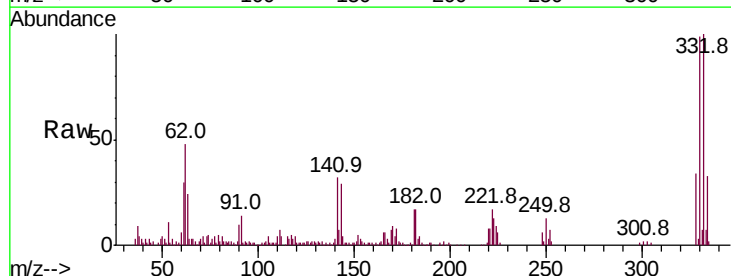
Instrument :  
 BNA\_F  
 ClientSampleId :

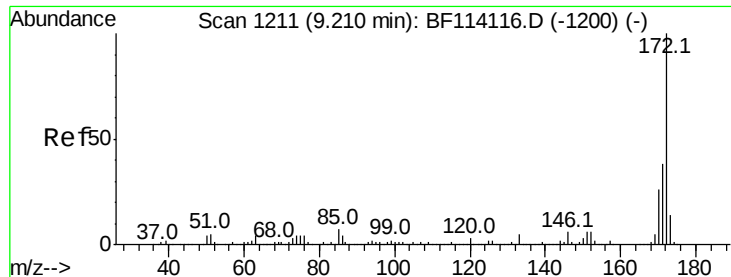
Tot Ion:164 Resp: 386884  
 Ion Ratio Lower Upper  
 164 100  
 162 101.9 80.6 120.8  
 160 45.3 36.5 54.7



#42  
 2,4,6-Tribromophenol  
 Concen: 24.919 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.02 min  
 Lab File: BF114536.D  
 Acq: 23 May 2019 21:08

Tgt Ion:330 Resp: 99668  
 Ion Ratio Lower Upper  
 330 100  
 332 102.1 81.4 122.2  
 141 34.6 26.6 40.0

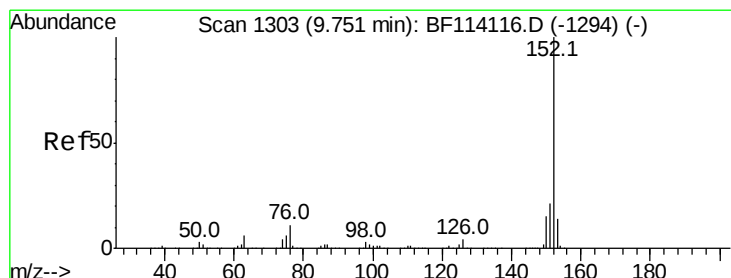
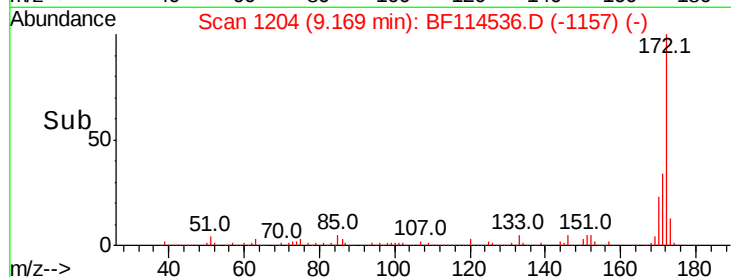
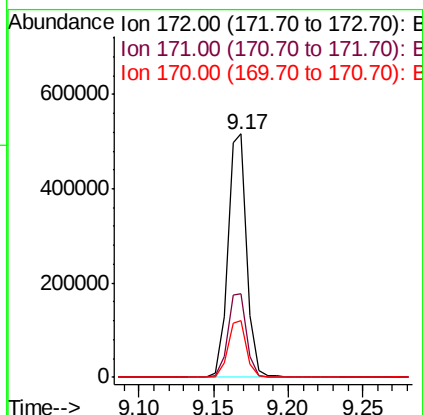
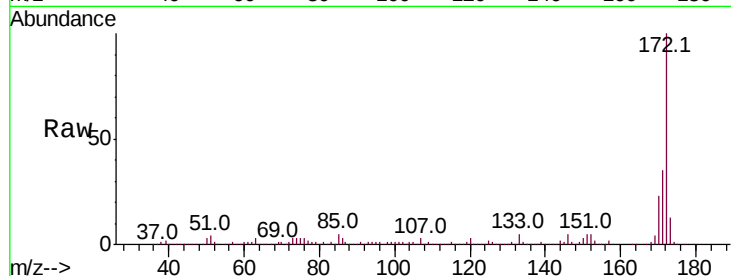




#45  
2-Fluorobiphenyl  
Concen: 18.087 ng  
RT: 9.17 min Scan# 1204  
Delta R.T. -0.02 min  
Lab File: BF114536.D  
Acq: 23 May 2019 21:08

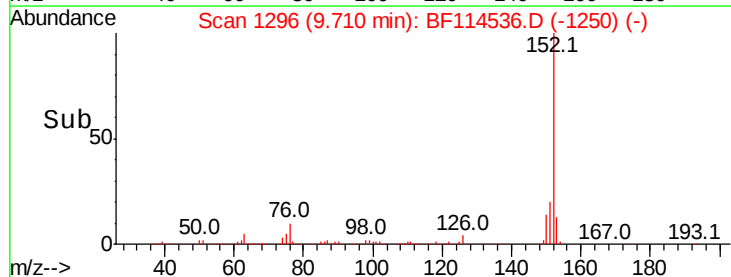
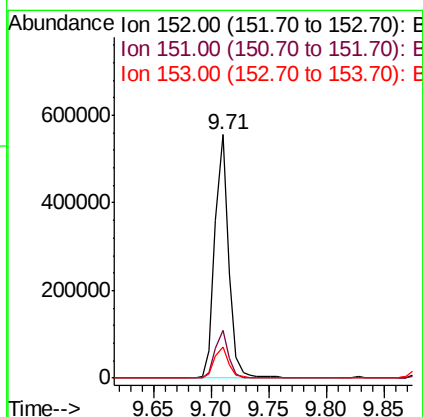
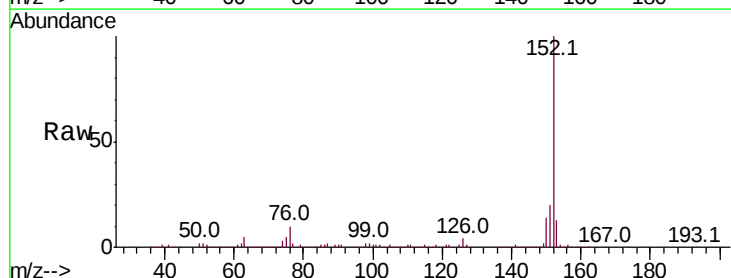
Instrument :  
BNA\_F  
ClientSampleId :

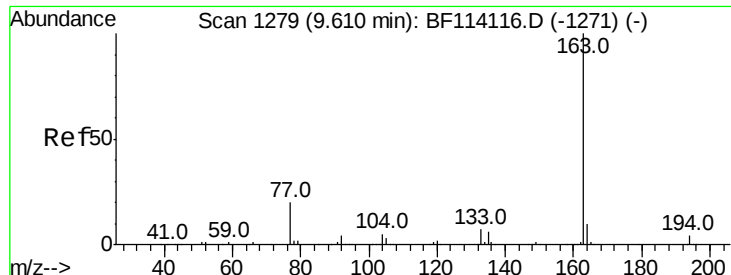
Tot Ion:172 Resp: 462603  
Ion Ratio Lower Upper  
172 100  
171 34.5 30.7 46.1  
170 23.1 20.5 30.7



#49  
Acenaphthylene  
Concen: 12.090 ng  
RT: 9.71 min Scan# 1296  
Delta R.T. -0.03 min  
Lab File: BF114536.D  
Acq: 23 May 2019 21:08

Tgt Ion:152 Resp: 462527  
Ion Ratio Lower Upper  
152 100  
151 19.6 16.8 25.2  
153 12.9 11.4 17.2

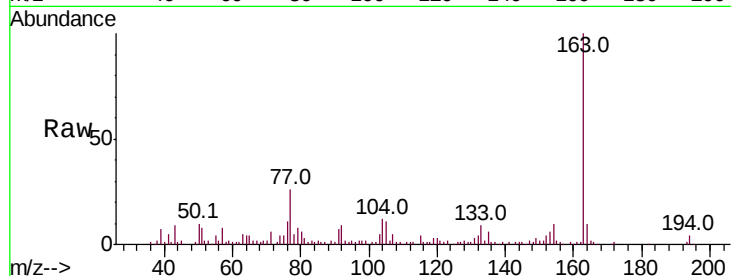




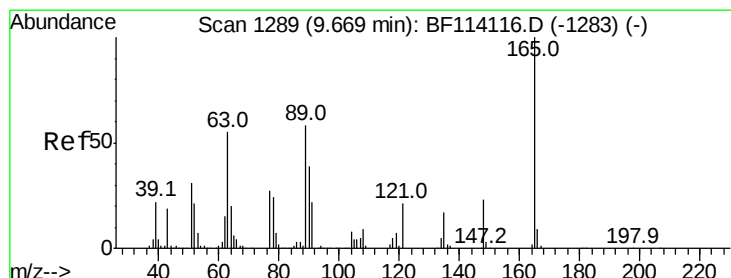
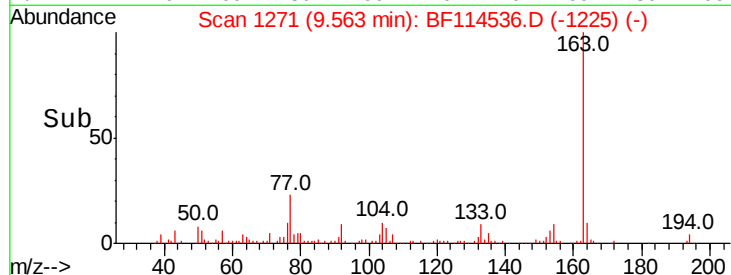
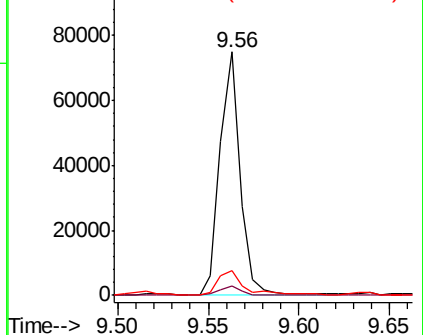
#50  
Dimethylphthalate  
Concen: 2.056 ng  
RT: 9.56 min Scan# 1271  
Delta R.T. -0.03 min  
Lab File: BF114536.D  
Acq: 23 May 2019 21:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 58400  
Ion Ratio Lower Upper  
163 100  
194 4.1 3.4 5.0  
164 10.0 8.2 12.2

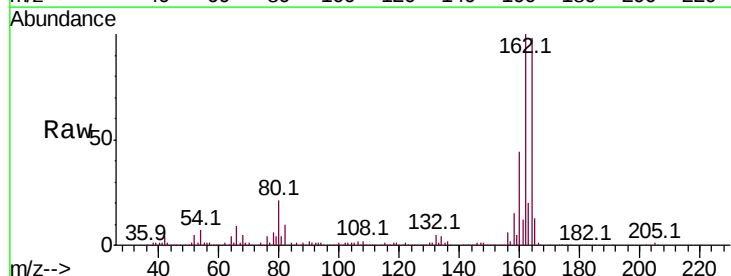


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

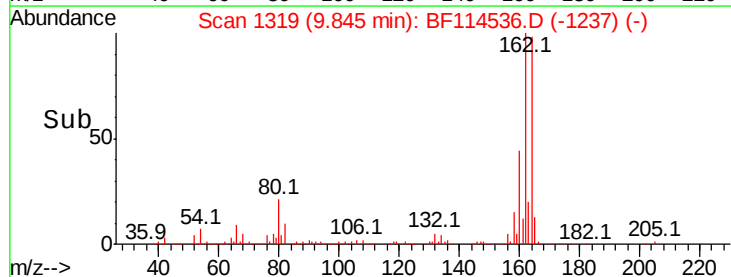
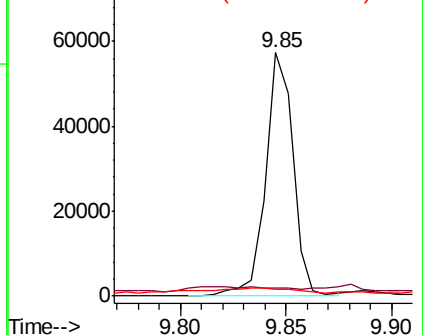


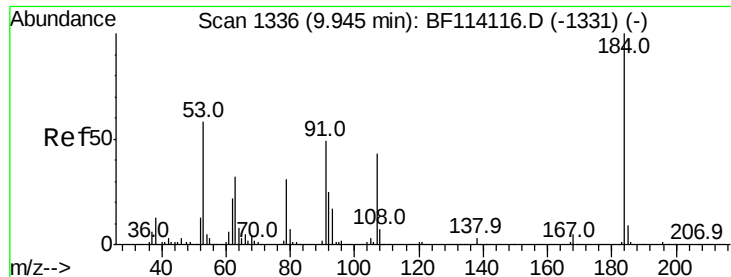
#51  
2,6-Dinitrotoluene  
Concen: 8.301 ng  
RT: 9.85 min Scan# 1319  
Delta R.T. 0.18 min  
Lab File: BF114536.D  
Acq: 23 May 2019 21:08

Tgt Ion:165 Resp: 52293  
Ion Ratio Lower Upper  
165 100  
63 3.6 50.2 75.4#  
89 2.7 46.6 69.8#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1





#54

2,4-Dinitrophenol

Concen: 6.789 ng

RT: 9.81 min Scan# 1313

Delta R.T. -0.14 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA\_F

ClientSampled :

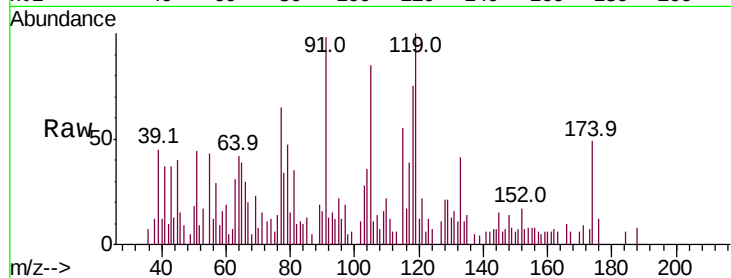
Tot Ion:184 Resp: 152

Ion Ratio Lower Upper

184 100

63 499.5 55.6 83.4#

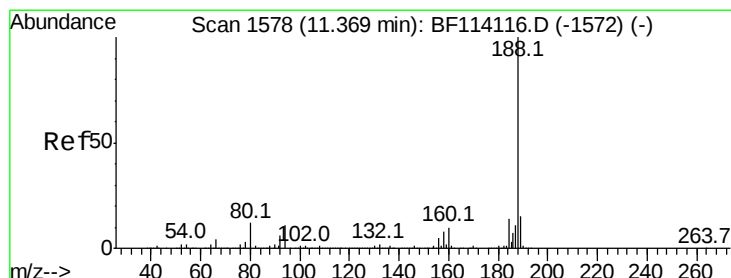
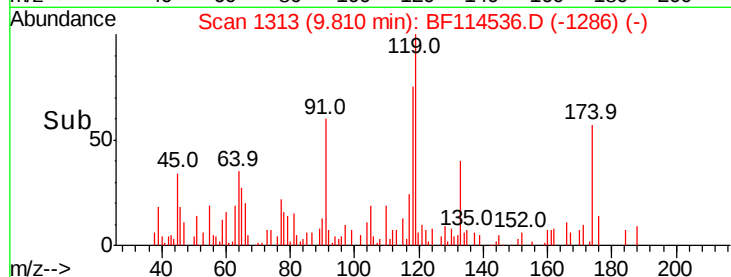
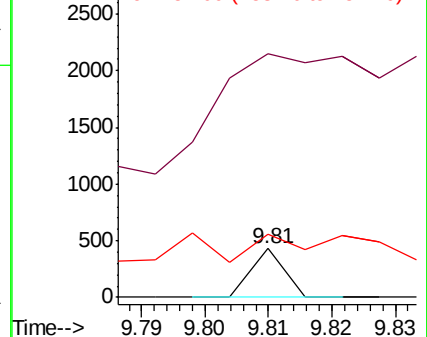
154 128.4 46.0 69.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. -0.02 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

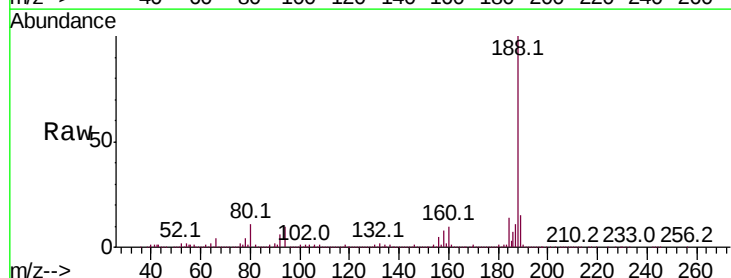
Tgt Ion:188 Resp: 748628

Ion Ratio Lower Upper

188 100

94 10.4 8.4 12.6

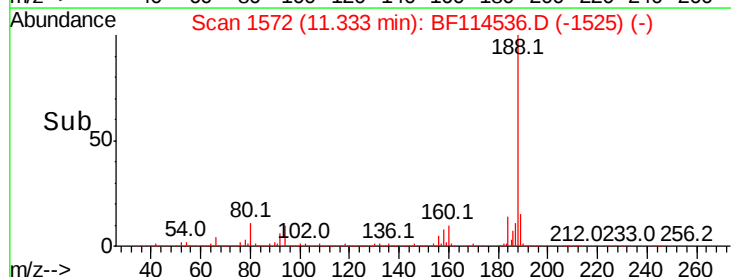
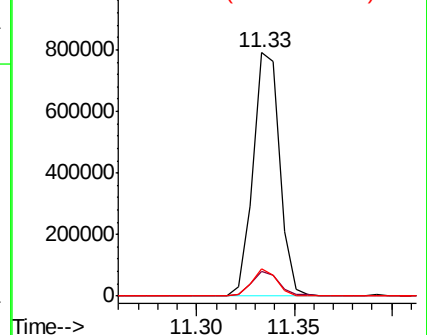
80 11.3 9.2 13.8

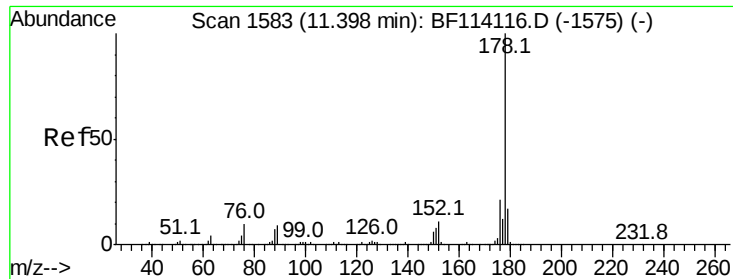


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 23.748 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.02 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA\_F

ClientSampleId :

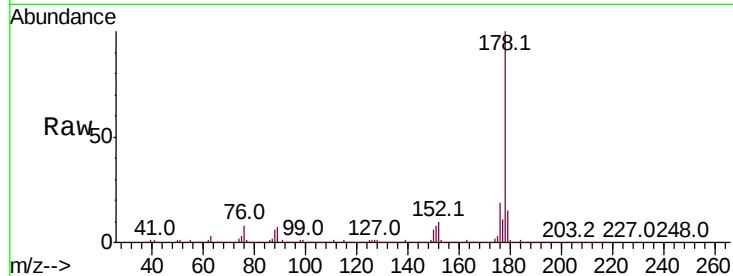
Tot Ion:178 Resp: 864956

Ion Ratio Lower Upper

178 100

176 19.0 16.4 24.6

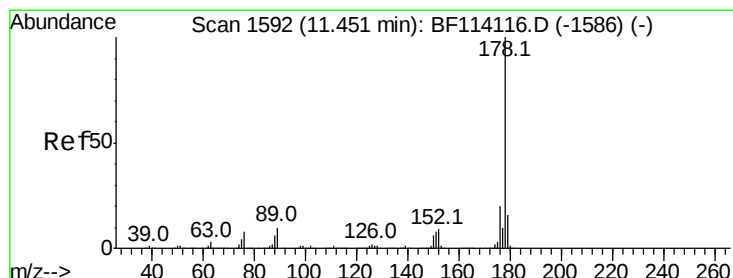
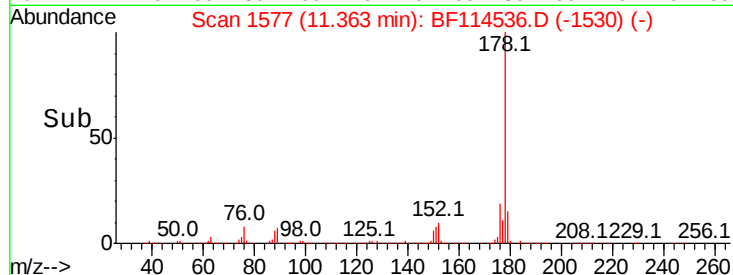
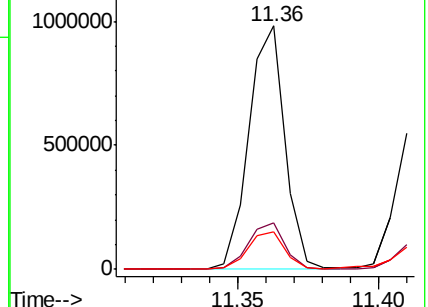
179 15.4 13.2 19.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 13.533 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

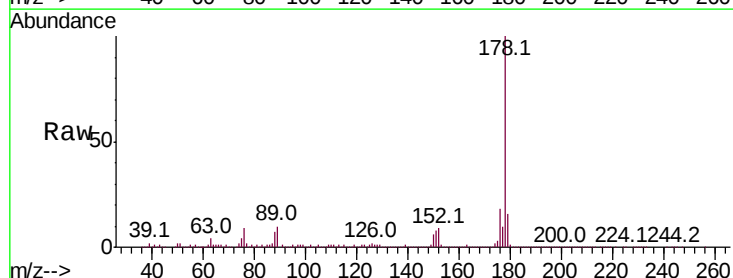
Tgt Ion:178 Resp: 495082

Ion Ratio Lower Upper

178 100

176 17.9 15.8 23.8

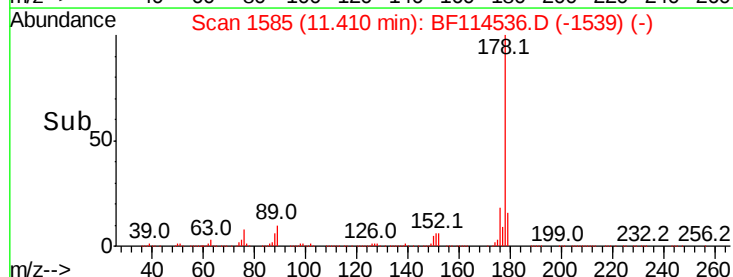
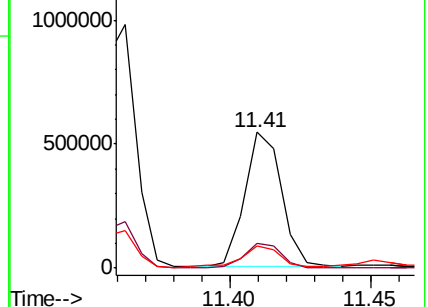
179 16.4 13.0 19.4

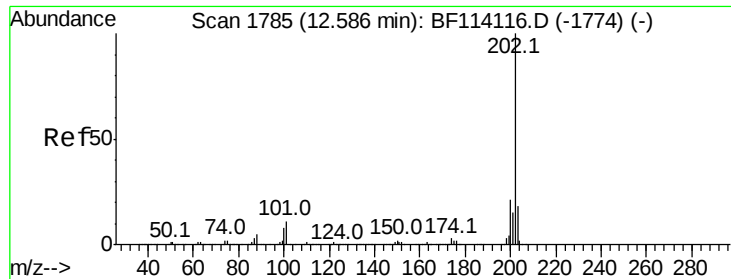


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 76.477 ng

RT: 12.56 min Scan# 1781

Delta R.T. -0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA\_F

ClientSampleId :

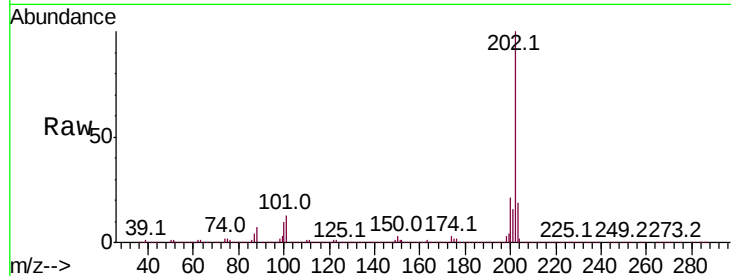
Tot Ion:202 Resp: 2999553

Ion Ratio Lower Upper

202 100

101 13.0 0.0 31.0

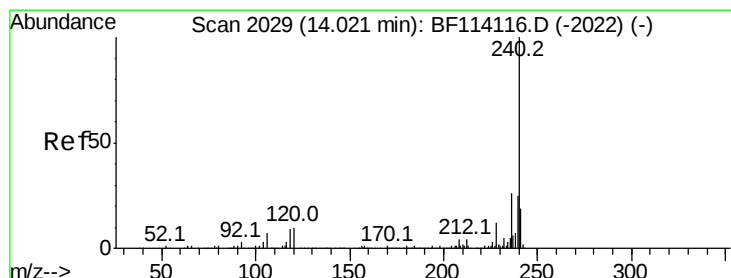
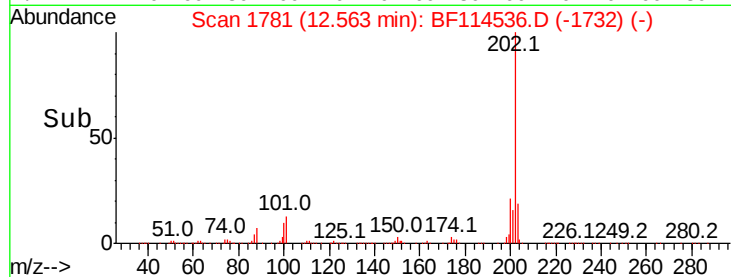
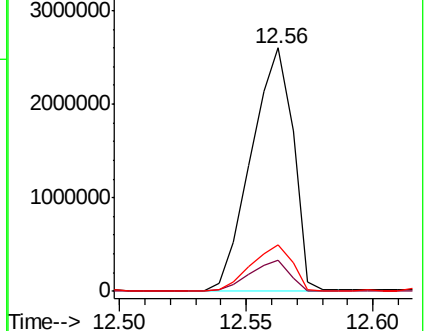
203 19.1 0.0 38.4



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

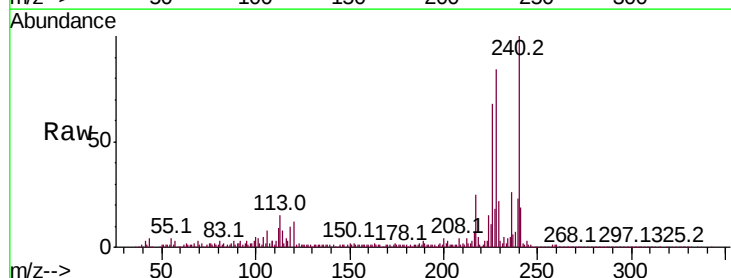
Tgt Ion:240 Resp: 422222

Ion Ratio Lower Upper

240 100

120 11.8 8.3 12.5

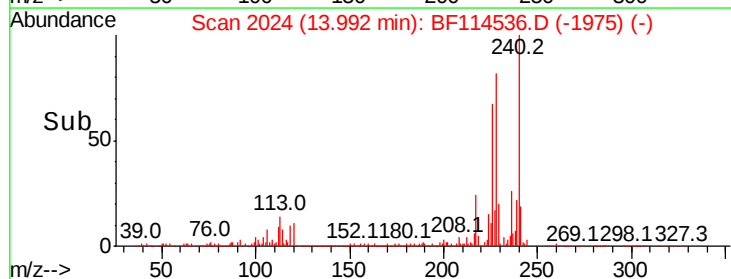
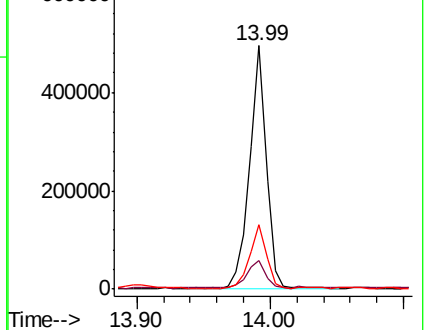
236 26.3 20.8 31.2

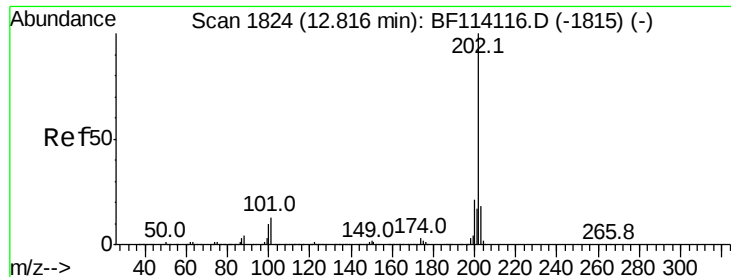


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 99.463 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

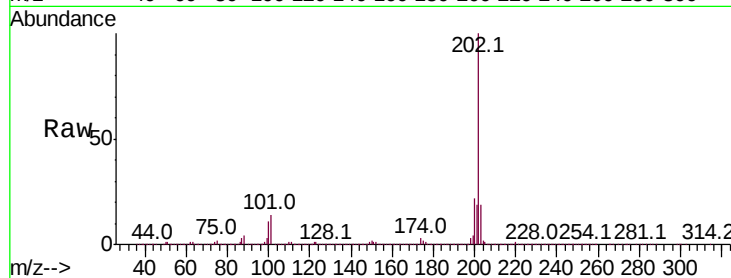
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:202 Resp: 3378339

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 21.8  | 16.9  | 25.3  |
| 203 | 19.1  | 14.5  | 21.7  |

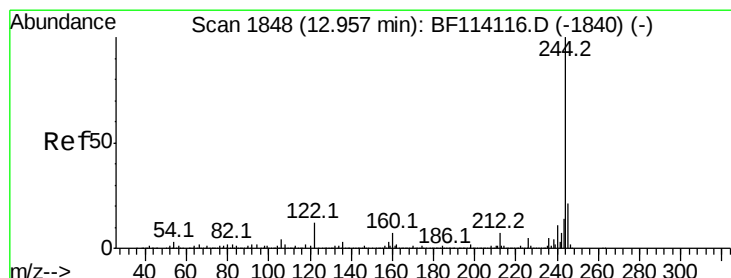
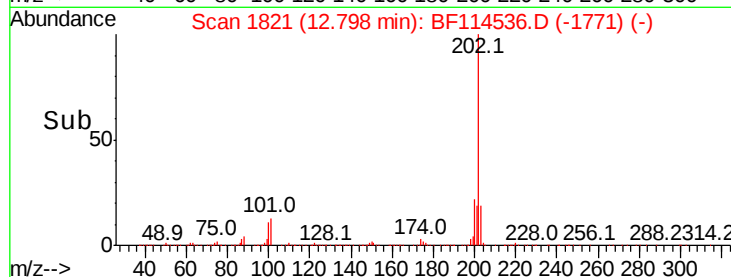
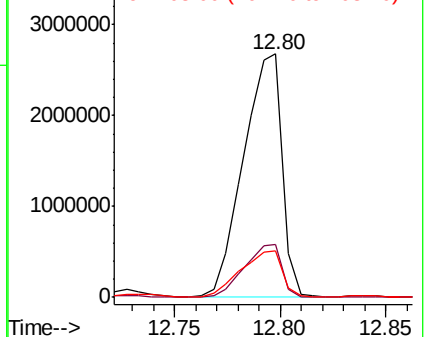


Abundance

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



#79

Terphenyl-d14

Concen: 21.264 ng

RT: 12.92 min Scan# 1841

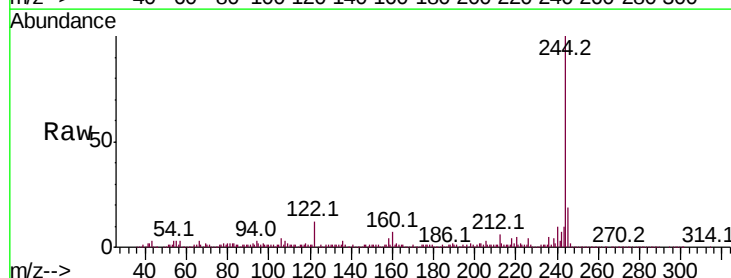
Delta R.T. -0.02 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Tgt Ion:244 Resp: 435520

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.5   | 5.8   | 8.6   |
| 122 | 12.0  | 9.4   | 14.2  |

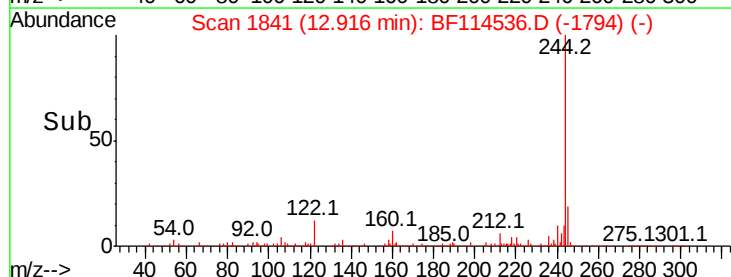
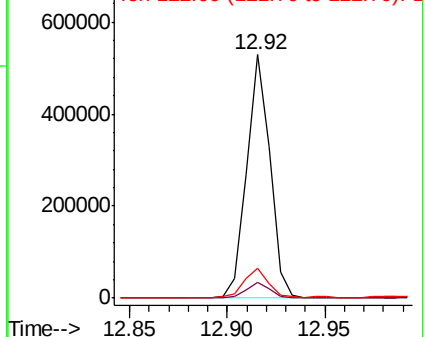


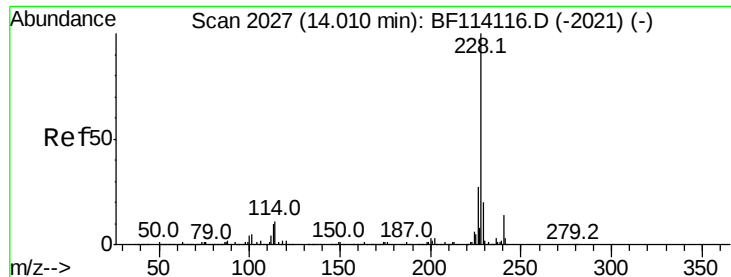
Abundance

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





#81

Benzo(a)anthracene

Concen: 61.012 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:228 Resp: 1666177

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 32.3  | 22.2  | 33.2  |
| 229 | 21.9  | 16.4  | 24.6  |

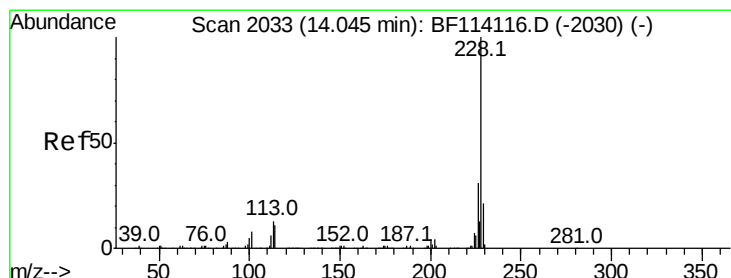
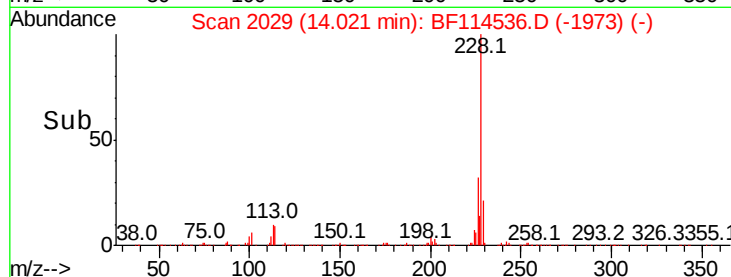
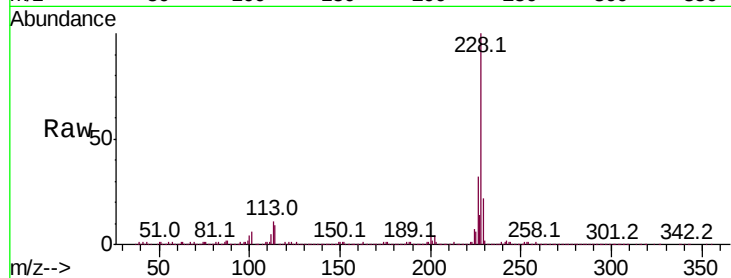
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

Time-->



#83

Chrysene

Concen: 62.239 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Tgt Ion:228 Resp: 1666177

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 32.3  | 25.0  | 37.6  |
| 229 | 21.9  | 17.0  | 25.6  |

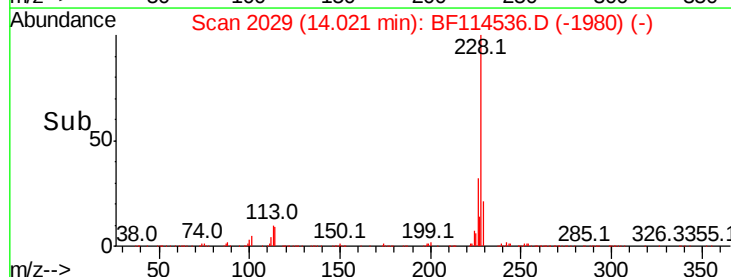
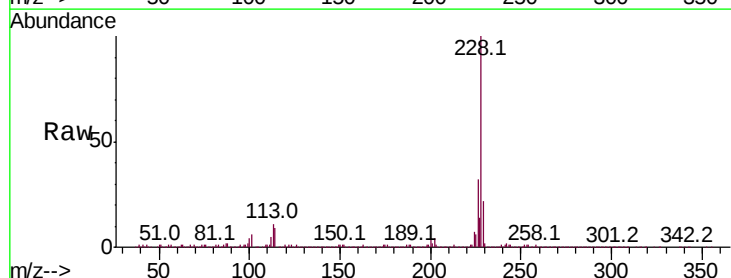
Abundance

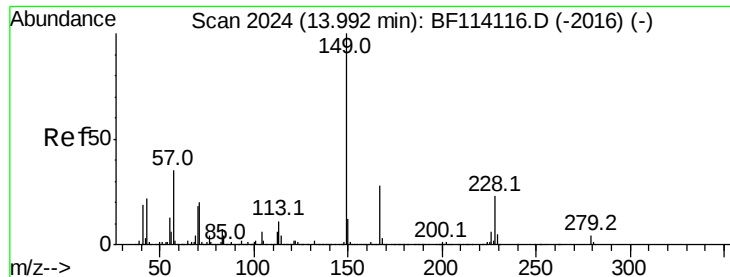
Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

Time-->





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.949 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA\_F

ClientSampleId :

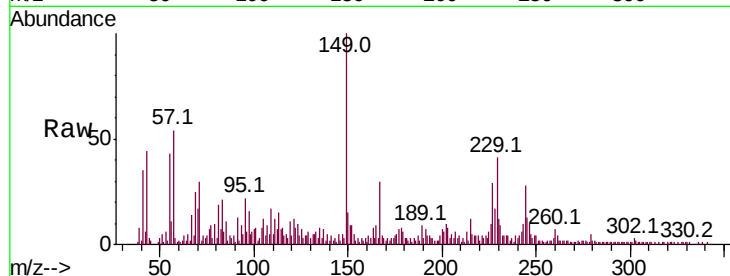
Tot Ion:149 Resp: 55137

Ion Ratio Lower Upper

149 100

167 29.9 22.6 33.8

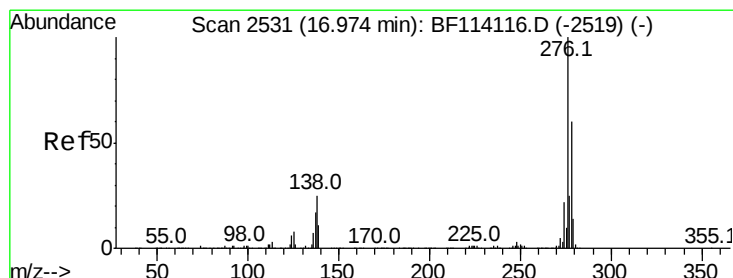
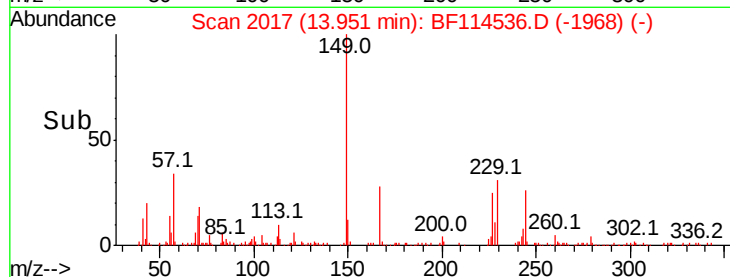
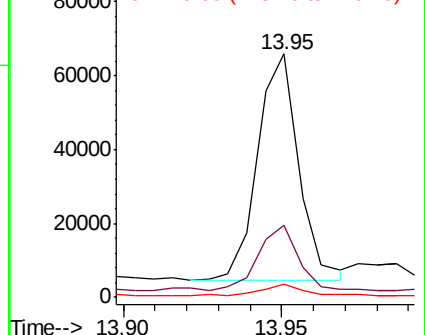
279 5.2 3.0 4.6#



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 66.065 ng

RT: 16.95 min Scan# 2527

Delta R.T. 0.00 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

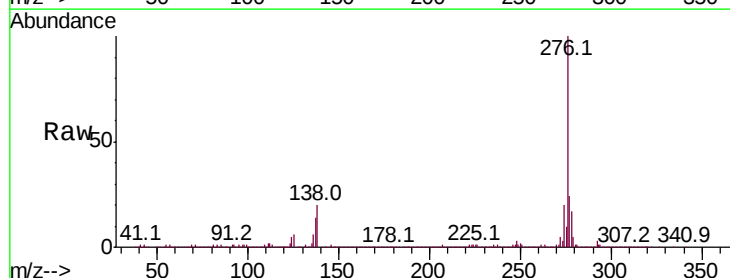
Tgt Ion:276 Resp: 1563068

Ion Ratio Lower Upper

276 100

138 20.6 20.2 30.2

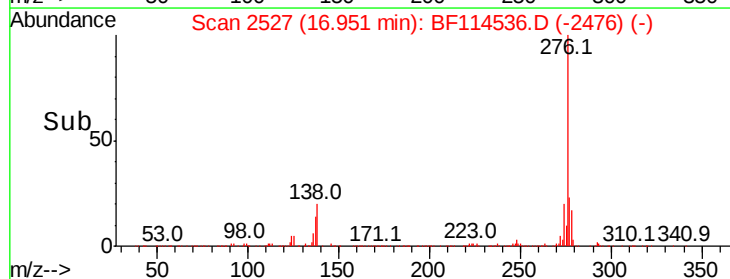
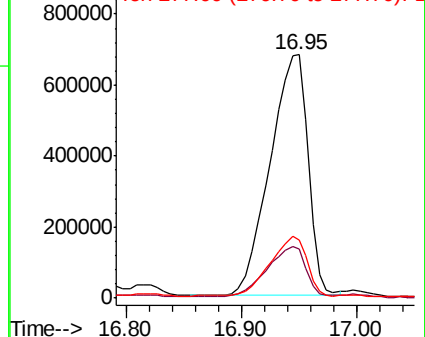
277 24.0 20.0 30.0

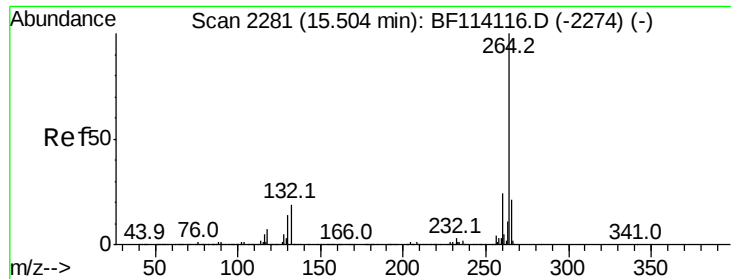


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2274

Delta R.T. 0.00 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA\_F

ClientSampleId :

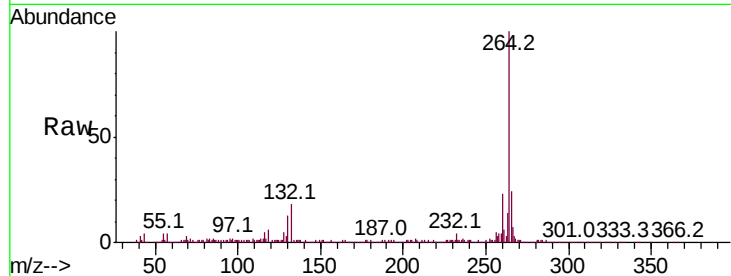
Tot Ion:264 Resp: 556669

Ion Ratio Lower Upper

264 100

260 23.4 19.4 29.0

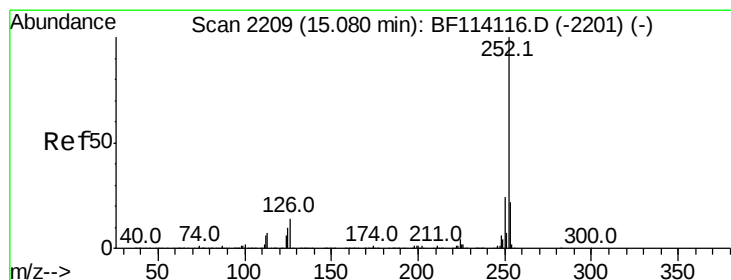
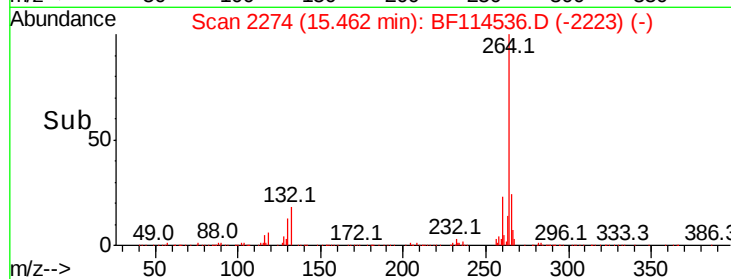
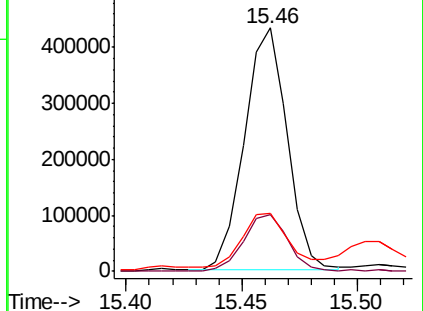
265 24.0 16.9 25.3



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



#88

Benzo(b)fluoranthene

Concen: 97.287 ng

RT: 15.04 min Scan# 2202

Delta R.T. 0.00 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

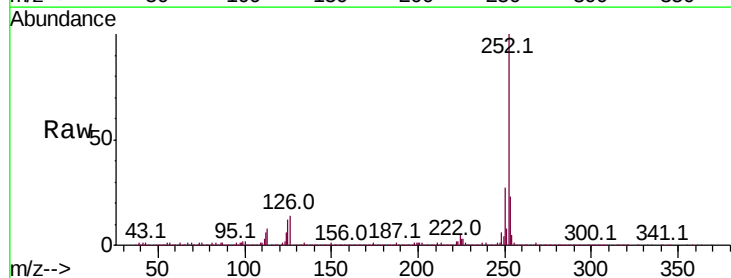
Tgt Ion:252 Resp: 3469570

Ion Ratio Lower Upper

252 100

253 23.4 17.8 26.8

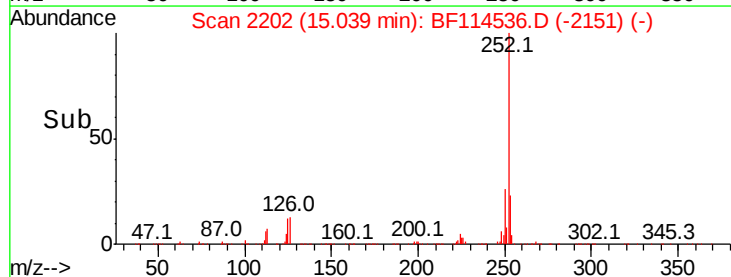
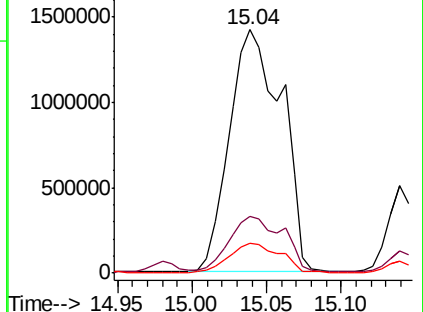
125 12.3 8.3 12.5

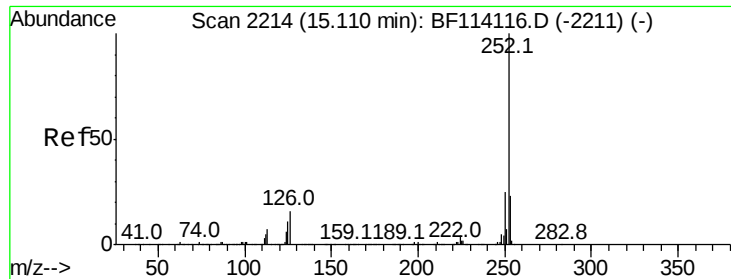


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

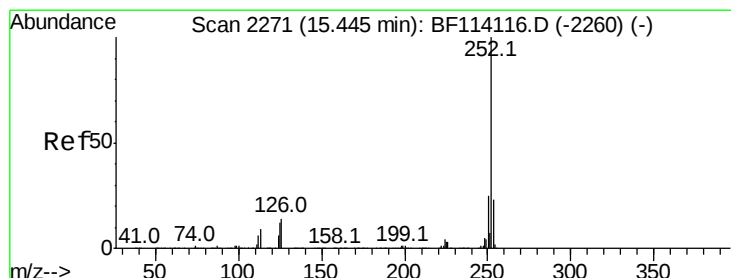
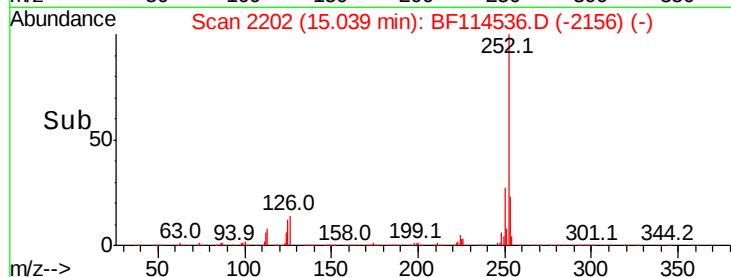
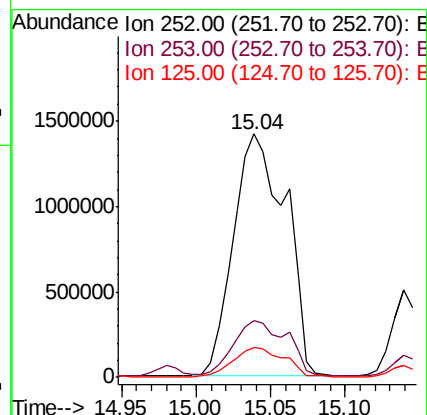
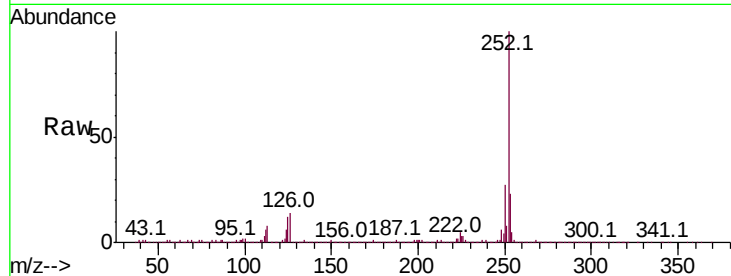




#89  
Benzo(k)fluoranthene  
Concen: 105.907 ng  
RT: 15.04 min Scan# 2202  
Delta R.T. -0.03 min  
Lab File: BF114536.D  
Acq: 23 May 2019 21:08

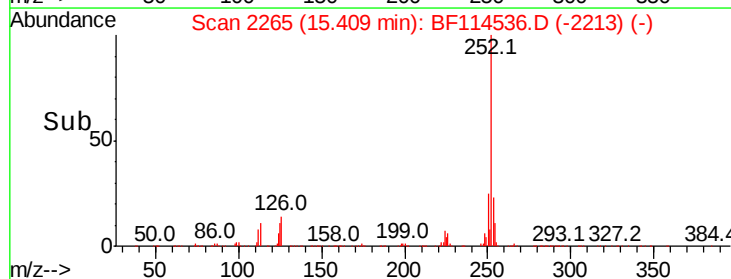
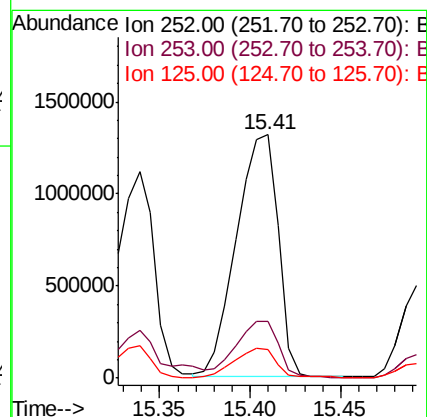
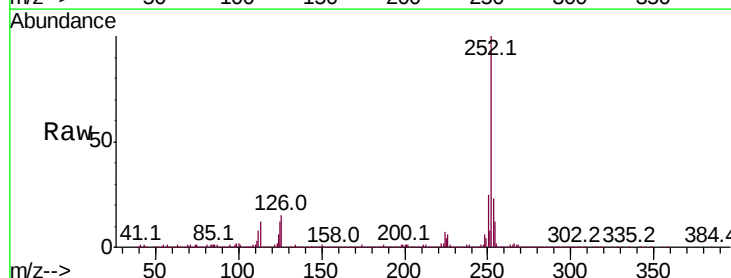
Instrument :  
BNA\_F  
ClientSampleId :

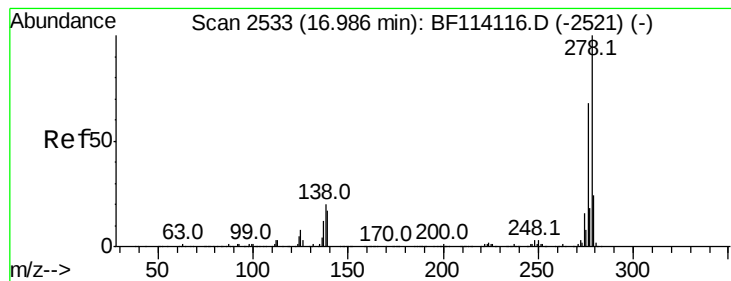
Tot Ion:252 Resp: 3469570  
Ion Ratio Lower Upper  
252 100  
253 23.4 18.2 27.2  
125 12.3 8.6 13.0



#90  
Benzo(a)pyrene  
Concen: 67.194 ng  
RT: 15.41 min Scan# 2265  
Delta R.T. 0.01 min  
Lab File: BF114536.D  
Acq: 23 May 2019 21:08

Tgt Ion:252 Resp: 2109007  
Ion Ratio Lower Upper  
252 100  
253 23.3 18.1 27.1  
125 11.6 9.5 14.3





#91

Dibenzo(a,h)anthracene

Concen: 12.207 ng

RT: 17.10 min Scan# 2552

Delta R.T. 0.15 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA\_F

ClientSampleId :

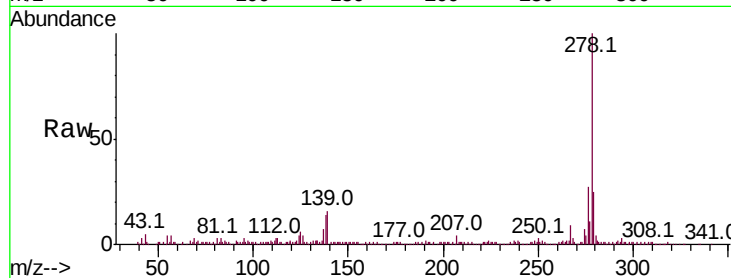
Tot Ion:278 Resp: 318377

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 16.2  | 13.5  | 20.3  |
| 279 | 24.8  | 19.0  | 28.6  |

278 100

139 16.2 13.5 20.3

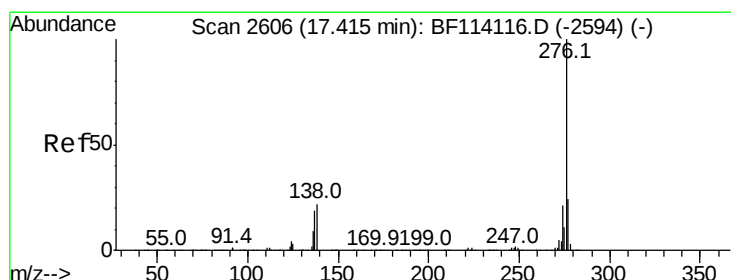
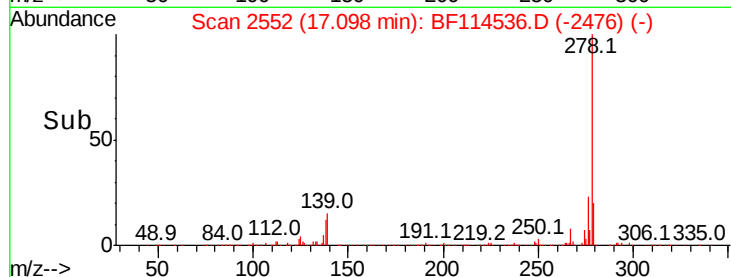
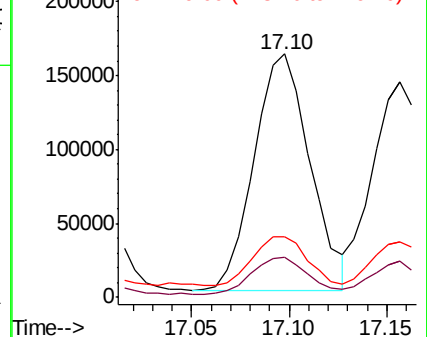
279 24.8 19.0 28.6



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



#92

Benzo(g,h,i)perylene

Concen: 62.780 ng

RT: 17.40 min Scan# 2603

Delta R.T. 0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

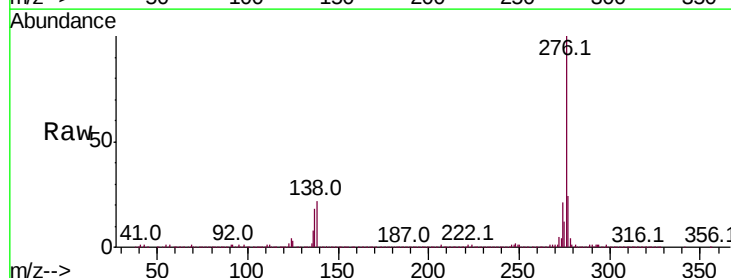
Tgt Ion:276 Resp: 1640881

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 24.0  | 19.0  | 28.4  |
| 138 | 21.9  | 17.8  | 26.6  |

276 100

277 24.0 19.0 28.4

138 21.9 17.8 26.6



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

