

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071119\  
 Data File : BF115516.D  
 Acq On : 12 Jul 2019 1:07  
 Operator : HP/JU  
 Sample : K3726-01DL 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 12 03:18:11 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 10 16:47:05 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.90  | 152  | 133537   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.18  | 136  | 522890   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.93  | 164  | 218650   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.42 | 188  | 362104   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.06 | 240  | 318817   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.54 | 264  | 265635   | 20.00 | ng    | -0.02    |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 5.50  | 112 | 174739 | 20.22 | ng | -0.01 |
| 7) Phenol-d6                | 6.51  | 99  | 233413 | 21.23 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 7.45  | 82  | 127796 | 14.44 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol    | 10.72 | 330 | 43994  | 18.20 | ng | -0.01 |
| 45) 2-Fluorobiphenyl        | 9.25  | 172 | 269671 | 21.64 | ng | 0.00  |
| 79) Terphenyl-d14           | 13.00 | 244 | 249588 | 16.03 | ng | 0.00  |

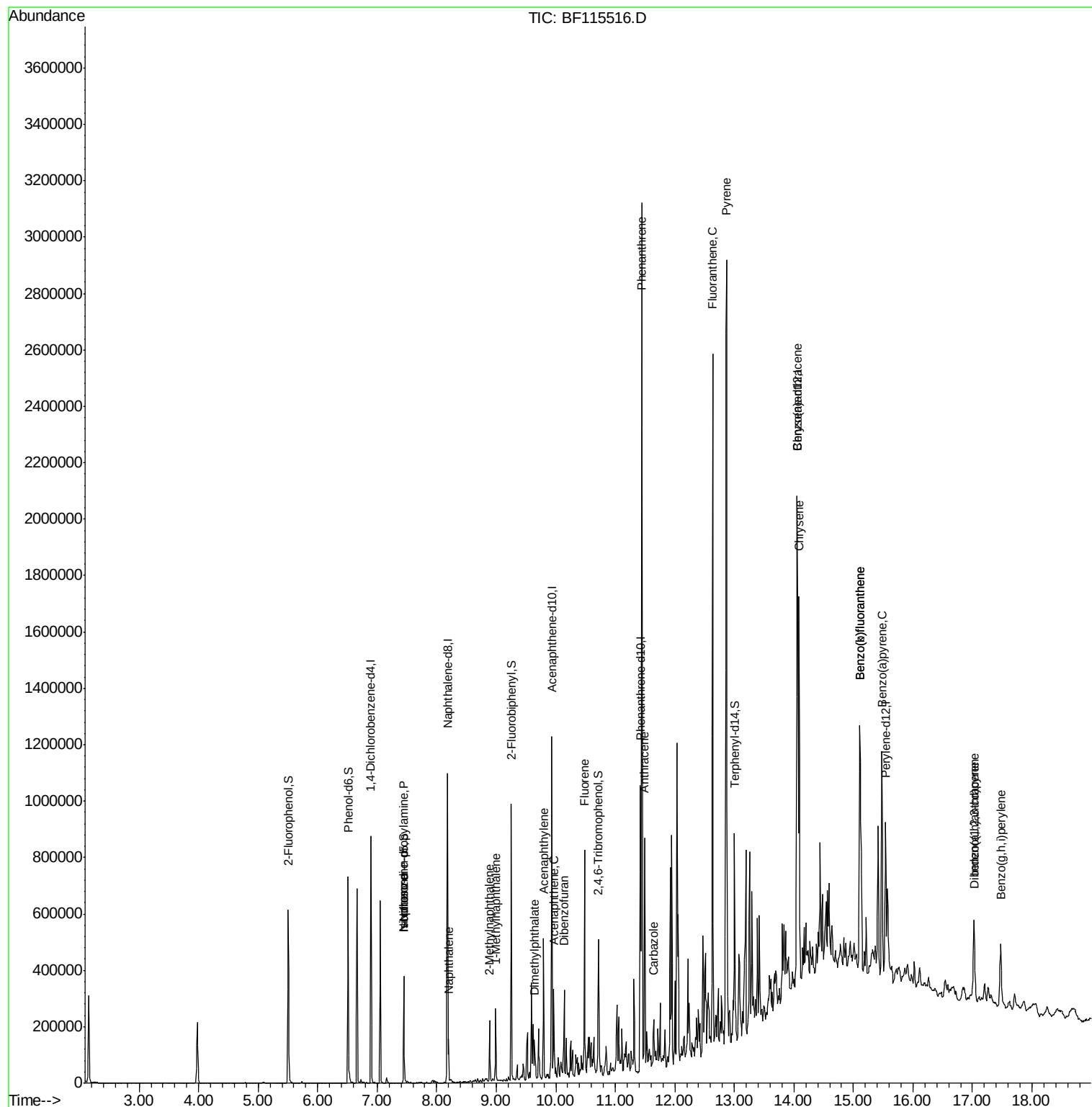
|                                |       |     |         |           |   |     |
|--------------------------------|-------|-----|---------|-----------|---|-----|
| Target Compounds               |       |     |         | Qvalue    |   |     |
| 9) Benzaldehyde                | 6.51  | 77  | 276     | Below Cal | # | 1   |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70  | 16167   | 2.174 ng  | # | 84  |
| 25) Isophorone                 | 7.45  | 82  | 123567  | 6.442 ng  | # | 64  |
| 31) Naphthalene                | 8.20  | 128 | 55277   | 2.128 ng  |   | 98  |
| 37) 2-Methylnaphthalene        | 8.89  | 142 | 56804   | 3.272 ng  |   | 98  |
| 38) 1-Methylnaphthalene        | 8.99  | 142 | 70627   | 4.264 ng  |   | 97  |
| 49) Acenaphthylene             | 9.79  | 152 | 163347  | 7.594 ng  |   | 97  |
| 50) Dimethylphthalate          | 9.64  | 163 | 56457   | 3.440 ng  |   | 99  |
| 52) Acenaphthene               | 9.96  | 154 | 65309   | 4.824 ng  |   | 99  |
| 55) Dibenzofuran               | 10.14 | 168 | 84822   | 4.448 ng  | # | 94  |
| 58) Fluorene                   | 10.48 | 166 | 207481  | 13.803 ng |   | 99  |
| 71) Phenanthrene               | 11.45 | 178 | 1123701 | 59.006 ng |   | 99  |
| 72) Anthracene                 | 11.49 | 178 | 321440  | 16.832 ng |   | 99  |
| 73) Carbazole                  | 11.65 | 167 | 64811   | 3.710 ng  |   | 99  |
| 75) Fluoranthene               | 12.63 | 202 | 989948  | 49.370 ng |   | 99  |
| 78) Pyrene                     | 12.87 | 202 | 1216699 | 49.075 ng |   | 100 |
| 81) Benzo(a)anthracene         | 14.05 | 228 | 584431  | 28.610 ng |   | 95  |
| 83) Chrysene                   | 14.09 | 228 | 506521  | 24.133 ng |   | 96  |
| 86) Indeno(1,2,3-cd)pyrene     | 17.03 | 276 | 192442  | 6.101 ng  |   | 96  |
| 88) Benzo(b)fluoranthene       | 15.11 | 252 | 693721  | 40.111 ng |   | 98  |
| 89) Benzo(k)fluoranthene       | 15.11 | 252 | 693721  | 45.102 ng |   | 98  |
| 90) Benzo(a)pyrene             | 15.48 | 252 | 393628  | 26.387 ng |   | 99  |
| 91) Dibenzo(a,h)anthracene     | 17.04 | 278 | 54009   | 4.237 ng  | # | 95  |
| 92) Benzo(g,h,i)perylene       | 17.47 | 276 | 173765  | 14.402 ng |   | 98  |

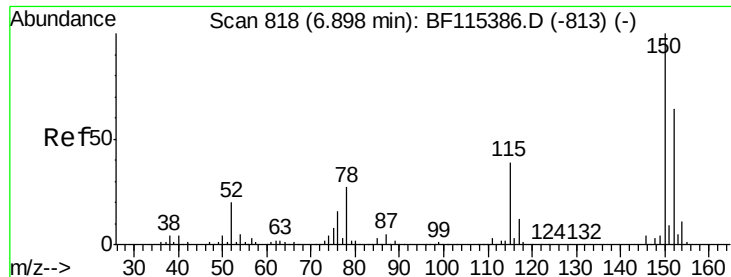
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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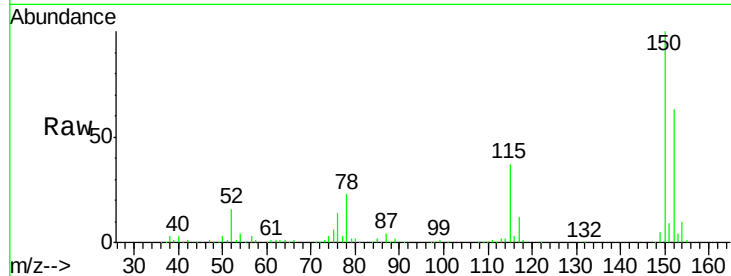


#1

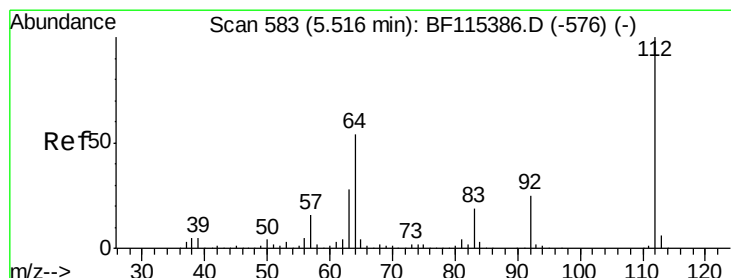
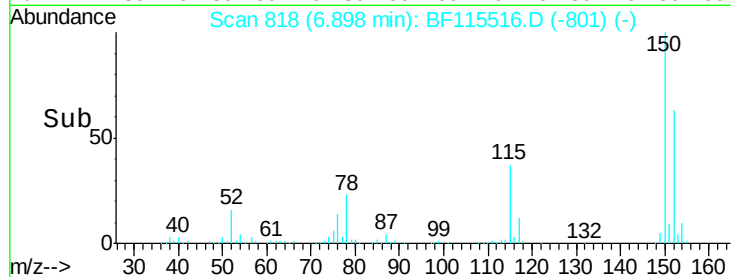
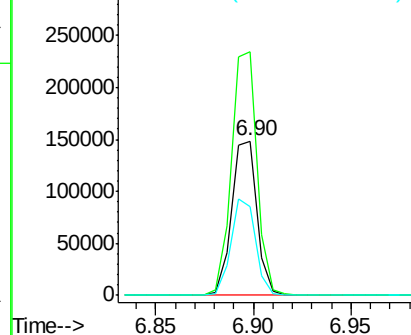
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.90 min Scan# 818  
 Delta R.T. 0.00 min  
 Lab File: BF115516.D  
 Acq: 12 Jul 2019 1:07

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 133537  
 Ion Ratio Lower Upper  
 152 100  
 150 157.9 127.4 191.2  
 115 57.8 46.2 69.4



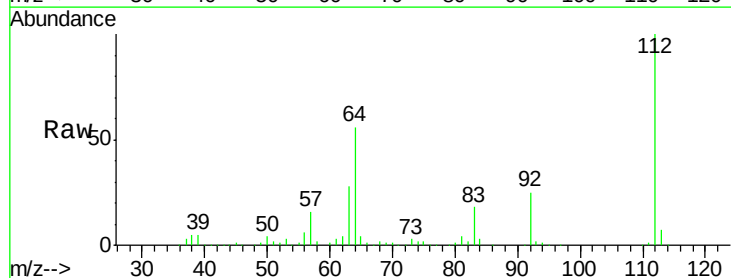
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



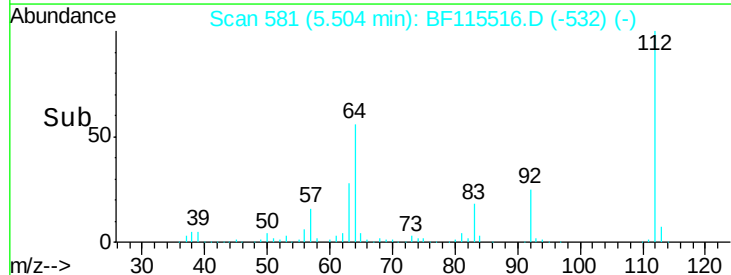
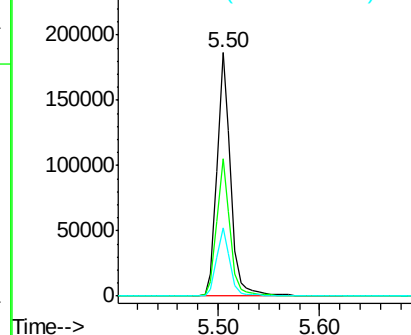
#5

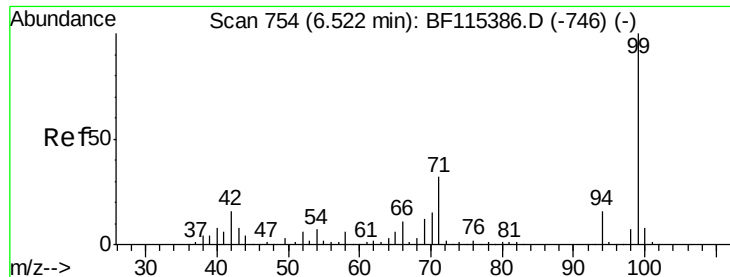
2-Fluorophenol  
 Concen: 20.217 ng  
 RT: 5.50 min Scan# 581  
 Delta R.T. -0.01 min  
 Lab File: BF115516.D  
 Acq: 12 Jul 2019 1:07

Tgt Ion:112 Resp: 174739  
 Ion Ratio Lower Upper  
 112 100  
 64 56.2 44.2 66.2  
 63 27.9 22.1 33.1



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: 21.235 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

Instrument :

BNA\_F

ClientSampleId :

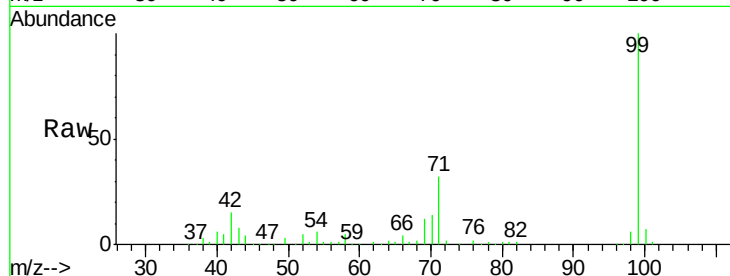
Tot Ion: 99 Resp: 233413

Ion Ratio Lower Upper

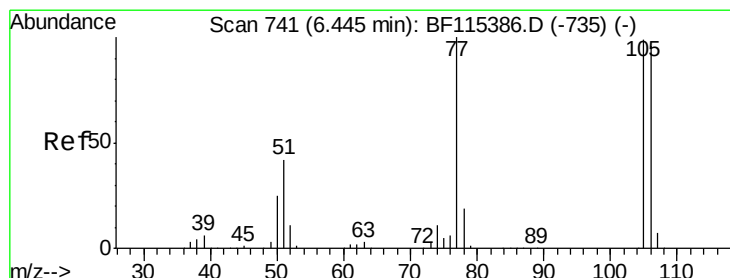
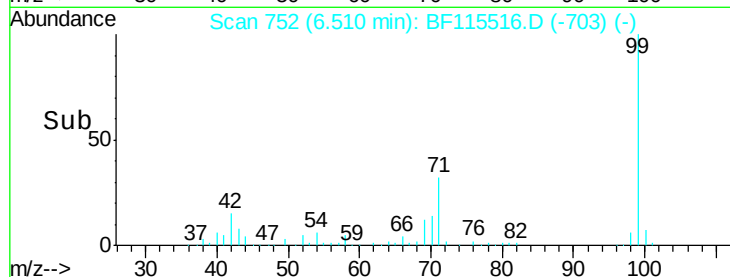
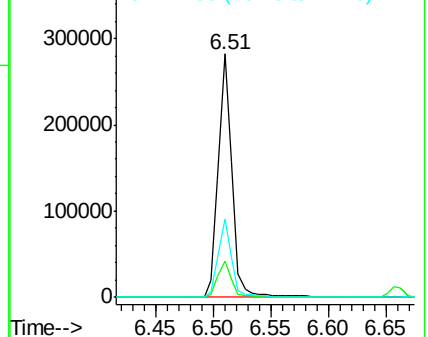
99 100

42 15.0 12.8 19.2

71 32.3 26.5 39.7



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



#9

Benzaldehyde

Concen: Below Cal

RT: 6.51 min Scan# 752

Delta R.T. 0.06 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

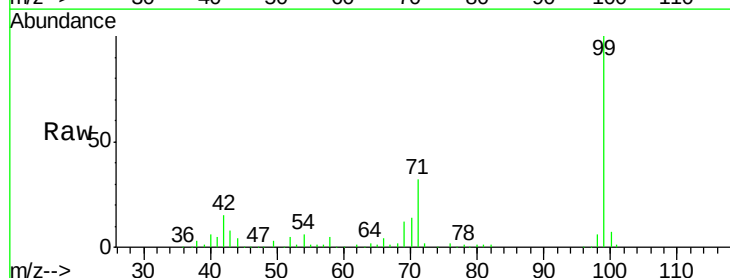
Tgt Ion: 77 Resp: 276

Ion Ratio Lower Upper

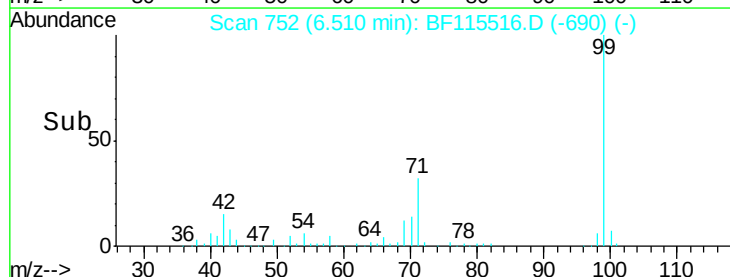
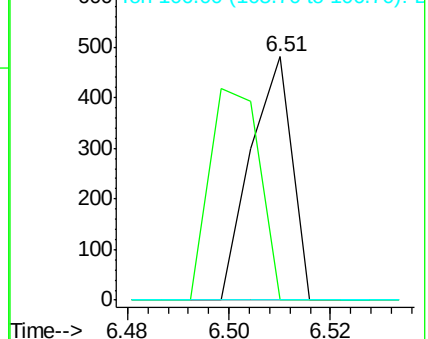
77 100

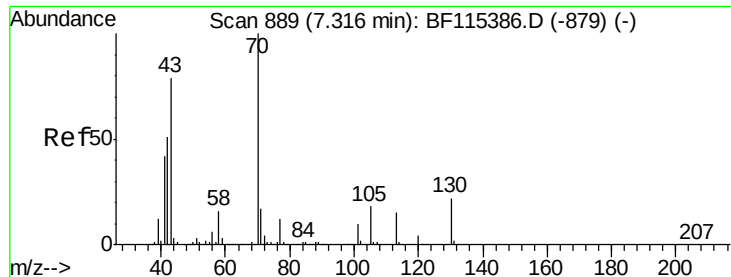
105 0.0 82.9 122.9#

106 0.0 77.8 117.8#



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 106.00 (105.70 to 106.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 2.174 ng

RT: 7.45 min Scan# 911

Delta R.T. 0.13 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

Instrument :

BNA\_F

ClientSampled :

Tot Ion: 70 Resp: 16167

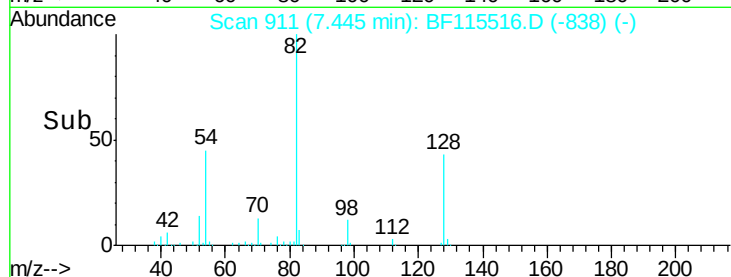
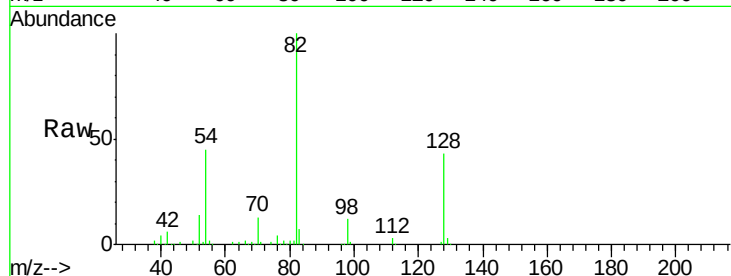
Ion Ratio Lower Upper

70 100

42 47.9 38.5 57.7

101 0.0 8.0 12.0#

130 2.2 19.1 28.7#

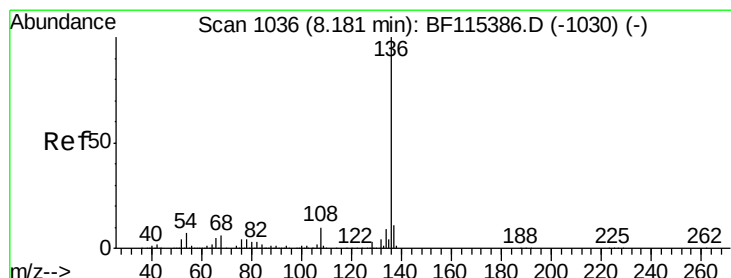
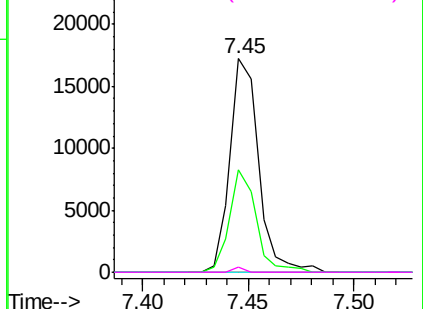


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.18 min Scan# 1036

Delta R.T. 0.00 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

Tgt Ion: 136 Resp: 522890

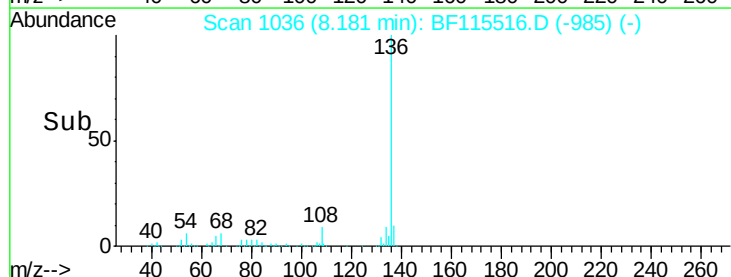
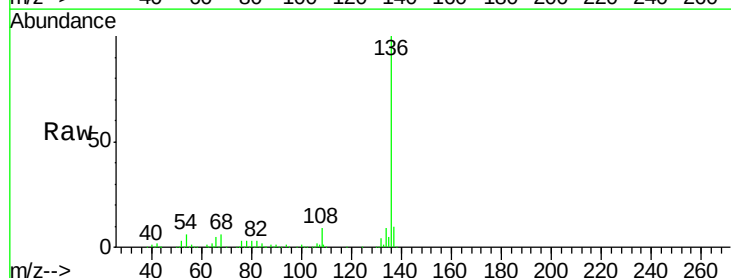
Ion Ratio Lower Upper

136 100

137 10.4 8.8 13.2

54 5.9 5.4 8.0

68 5.6 4.8 7.2

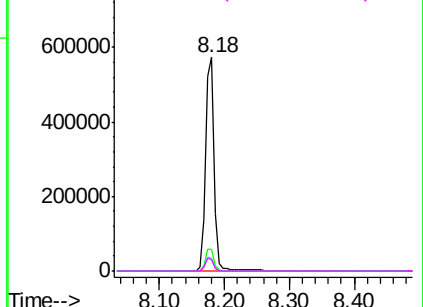


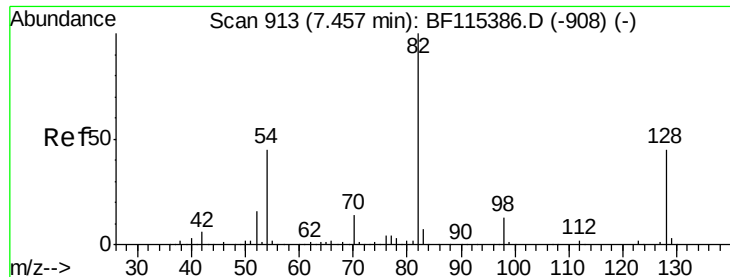
Abundance Ion 136.00 (135.70 to 136.70): BF1

Ion 137.00 (136.70 to 137.70): BF1

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

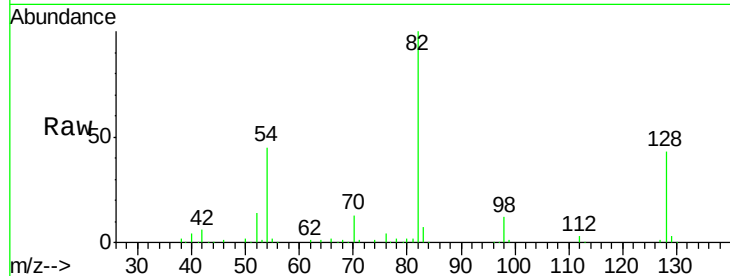




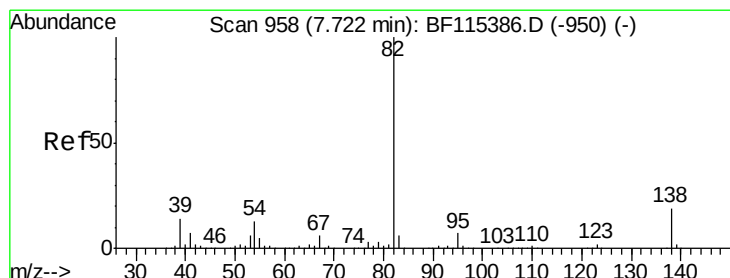
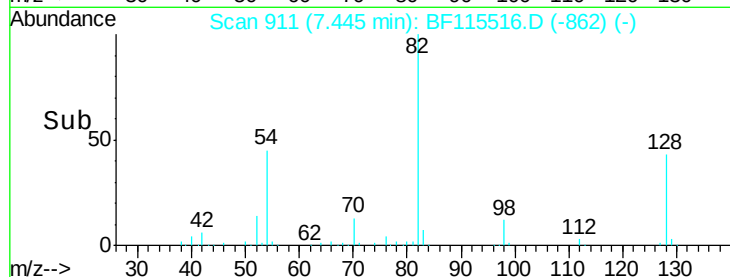
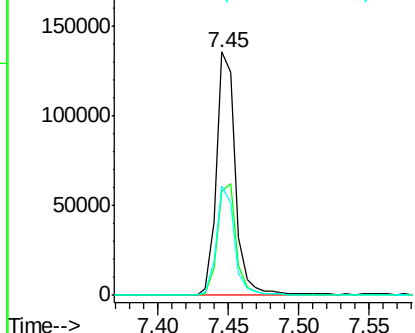
#23  
Nitrobenzene-d5  
Concen: 14.440 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: BF115516.D  
Acq: 12 Jul 2019 1:07

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 82    | Resp  | 127796 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 42.8  | 36.7  | 55.1   |
| 54        | 44.7  | 35.6  | 53.4   |

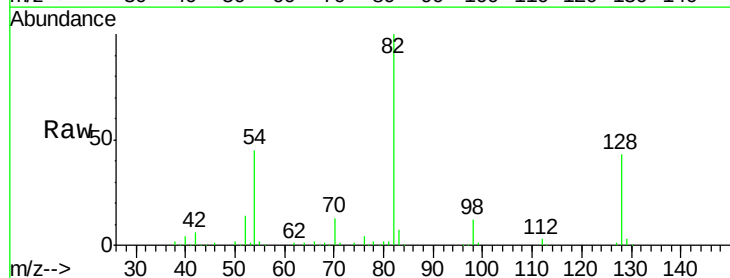


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

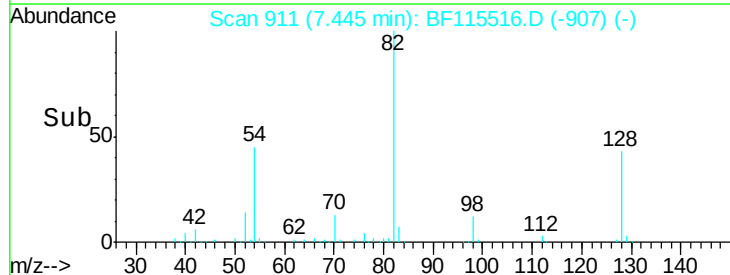
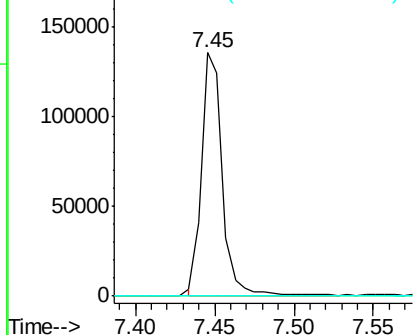


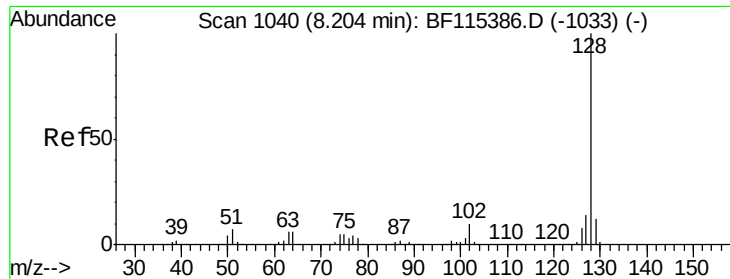
#25  
Isophorone  
Concen: 6.442 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.28 min  
Lab File: BF115516.D  
Acq: 12 Jul 2019 1:07

| Tgt Ion   | 82    | Resp  | 123567 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.4   | 8.2#   |
| 138       | 0.0   | 15.1  | 22.7#  |



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

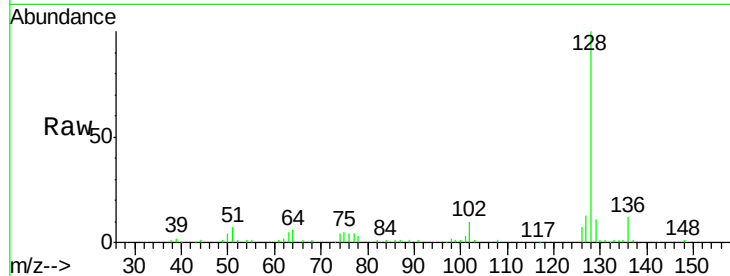




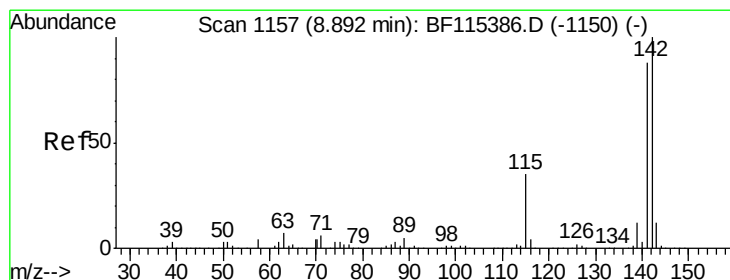
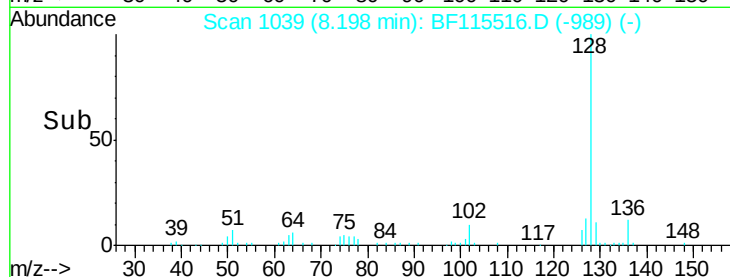
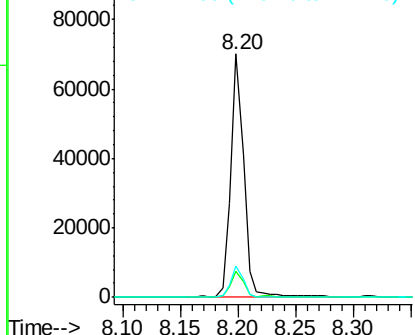
#31  
Naphthalene  
Concen: 2.128 ng  
RT: 8.20 min Scan# 1039  
Delta R.T. -0.01 min  
Lab File: BF115516.D  
Acq: 12 Jul 2019 1:07

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:128 Resp: 55277  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.3 13.9  
127 12.7 11.1 16.7

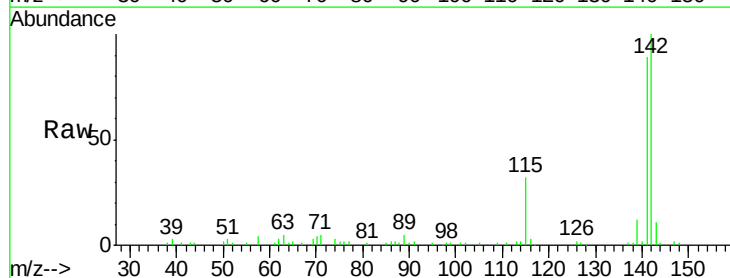


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

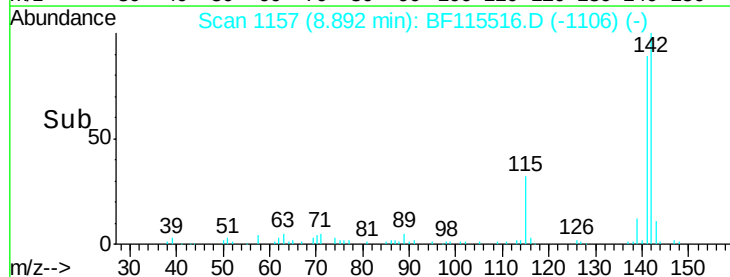
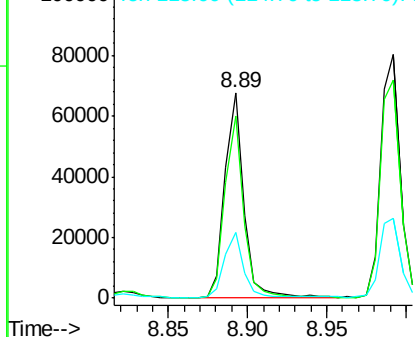


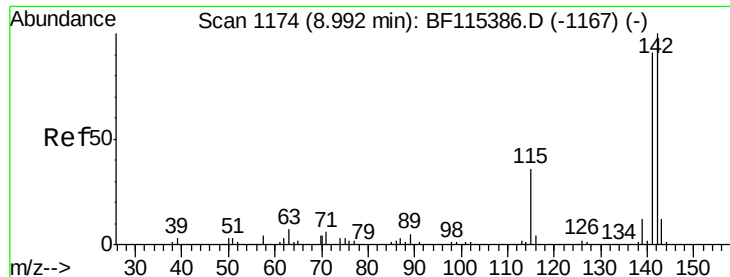
#37  
2-Methylnaphthalene  
Concen: 3.272 ng  
RT: 8.89 min Scan# 1157  
Delta R.T. 0.00 min  
Lab File: BF115516.D  
Acq: 12 Jul 2019 1:07

Tgt Ion:142 Resp: 56804  
Ion Ratio Lower Upper  
142 100  
141 88.9 72.1 108.1  
115 31.8 27.6 41.4



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

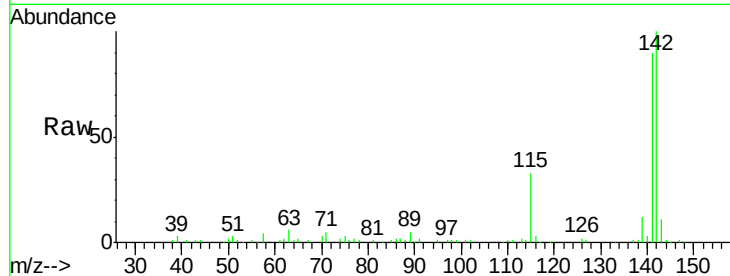




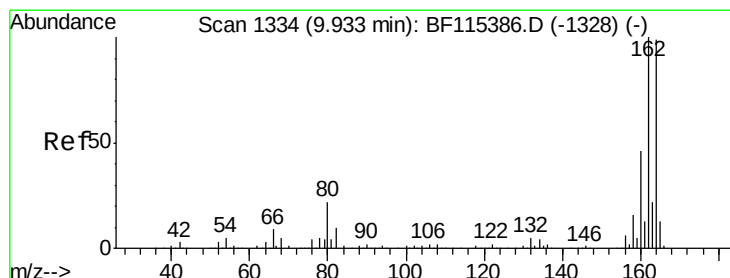
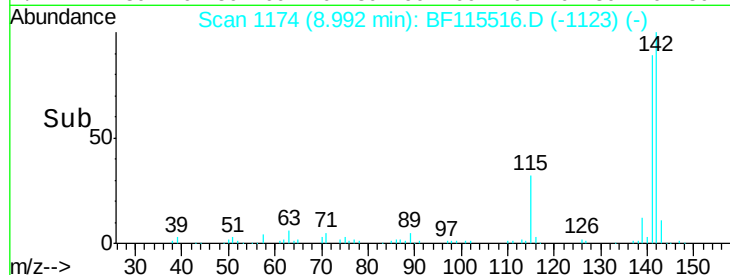
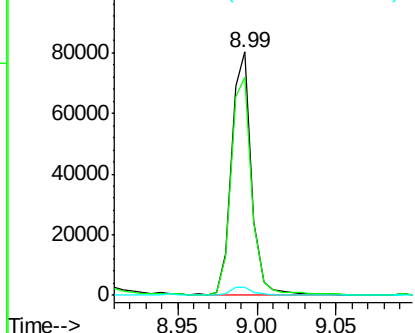
#38  
1-Methylnaphthalene  
Concen: 4.264 ng  
RT: 8.99 min Scan# 1174  
Delta R.T. 0.00 min  
Lab File: BF115516.D  
Acq: 12 Jul 2019 1:07

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:142 Resp: 70627  
Ion Ratio Lower Upper  
142 100  
141 89.7 74.3 111.5  
116 3.4 3.1 4.7

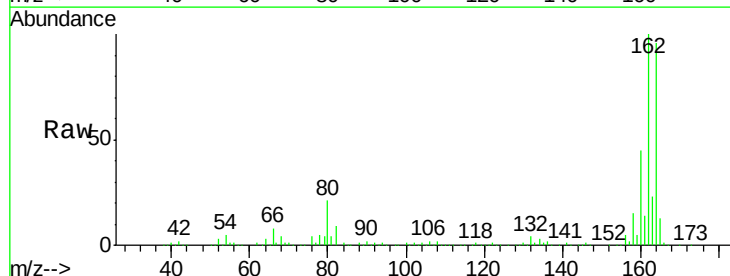


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 116.00 (115.70 to 116.70): E

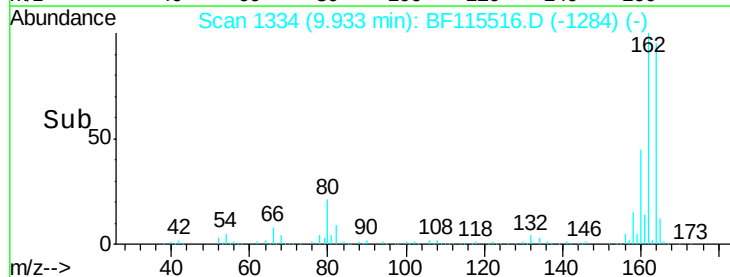
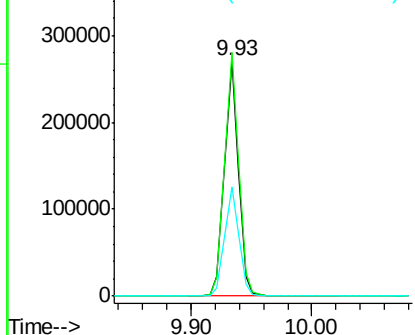


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.93 min Scan# 1334  
Delta R.T. -0.01 min  
Lab File: BF115516.D  
Acq: 12 Jul 2019 1:07

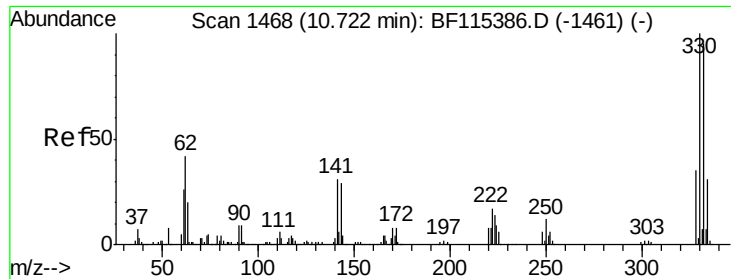
Tgt Ion:164 Resp: 218650  
Ion Ratio Lower Upper  
164 100  
162 103.6 82.3 123.5  
160 46.7 37.2 55.8



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



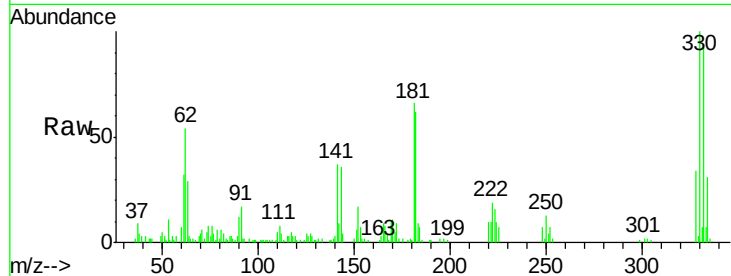




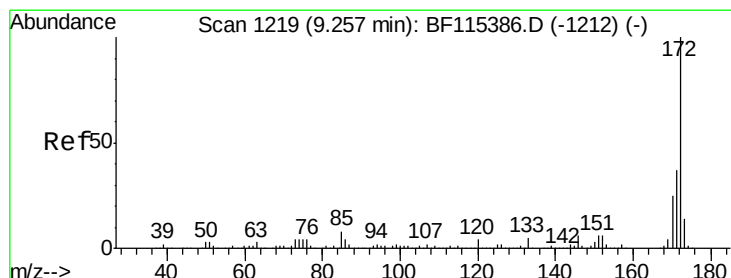
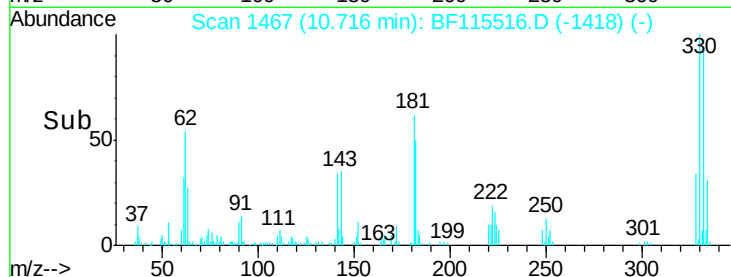
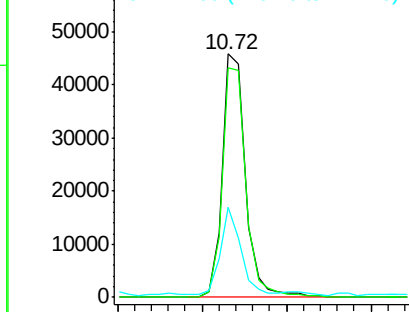
#42  
 2,4,6-Tribromophenol  
 Concen: 18.198 ng  
 RT: 10.72 min Scan# 1467  
 Delta R.T. -0.01 min  
 Lab File: BF115516.D  
 Acq: 12 Jul 2019 1:07

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 43994  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 77.4 116.0  
 141 31.3 24.7 37.1

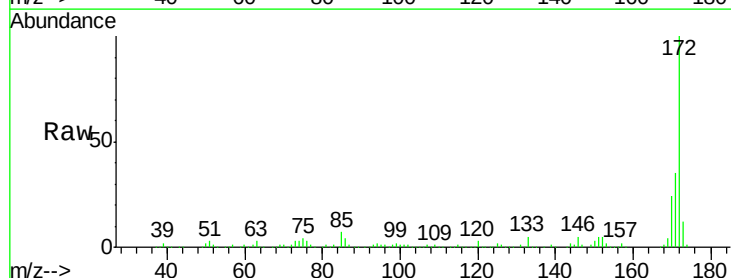


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

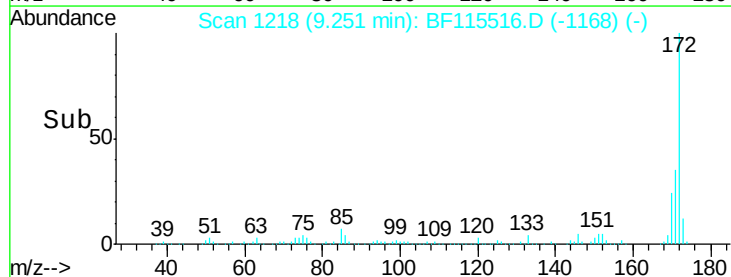
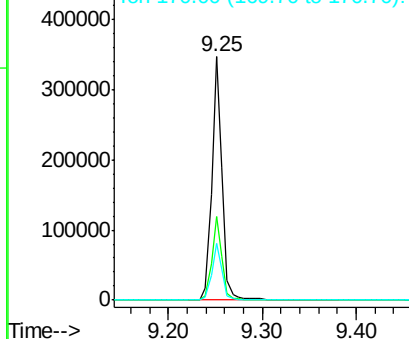


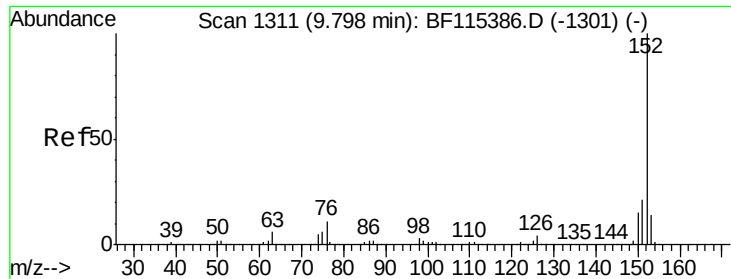
#45  
 2-Fluorobiphenyl  
 Concen: 21.642 ng  
 RT: 9.25 min Scan# 1218  
 Delta R.T. -0.01 min  
 Lab File: BF115516.D  
 Acq: 12 Jul 2019 1:07

Tgt Ion:172 Resp: 269671  
 Ion Ratio Lower Upper  
 172 100  
 171 34.6 29.8 44.8  
 170 23.5 20.0 30.0



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





#49

Acenaphthylene

Concen: 7.594 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

Instrument :

BNA\_F

ClientSampled :

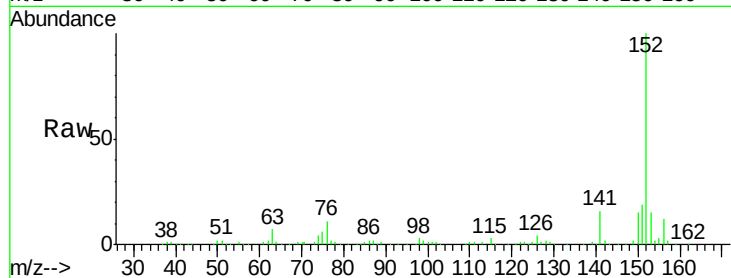
Tot Ion:152 Resp: 163347

Ion Ratio Lower Upper

152 100

151 19.4 17.1 25.7

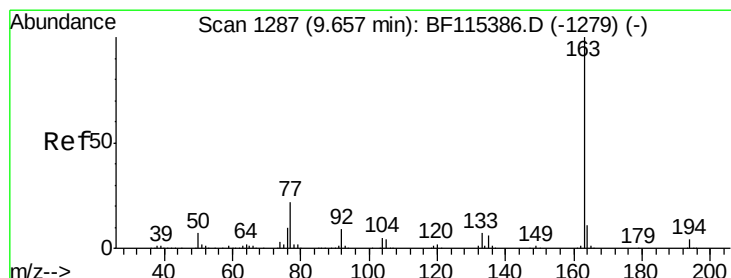
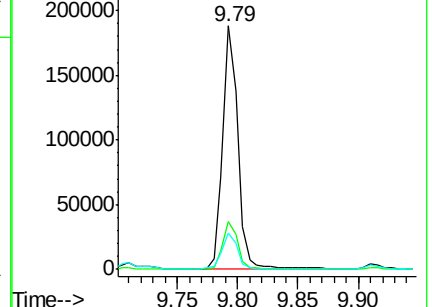
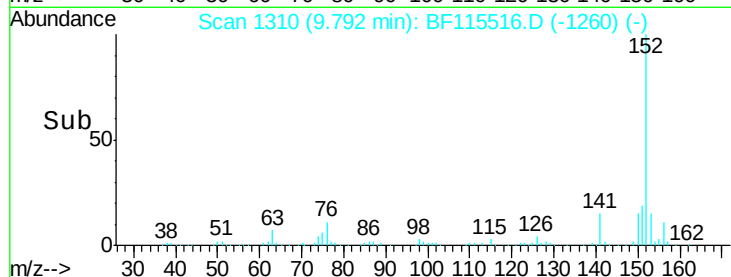
153 15.0 11.8 17.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 3.440 ng

RT: 9.64 min Scan# 1284

Delta R.T. -0.02 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

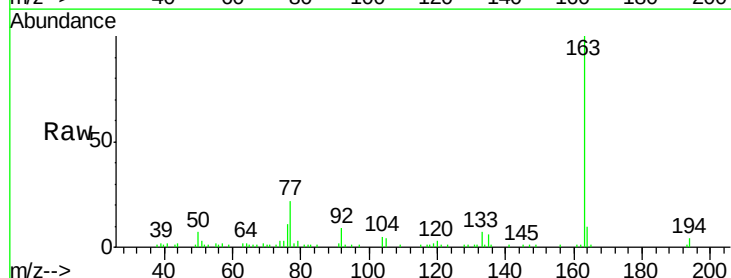
Tgt Ion:163 Resp: 56457

Ion Ratio Lower Upper

163 100

194 4.4 3.1 4.7

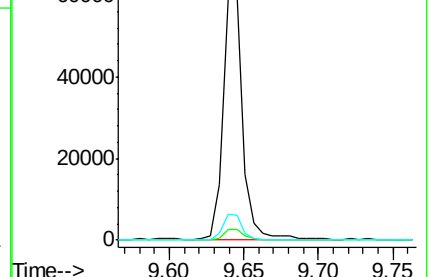
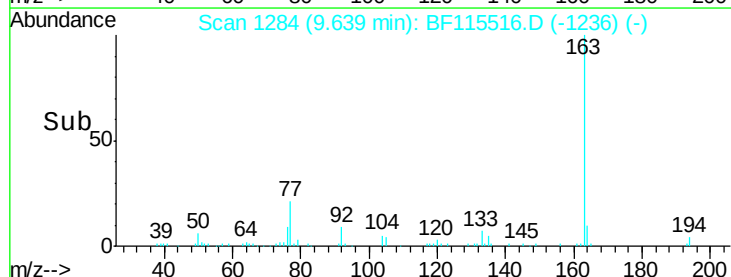
164 10.5 8.6 13.0

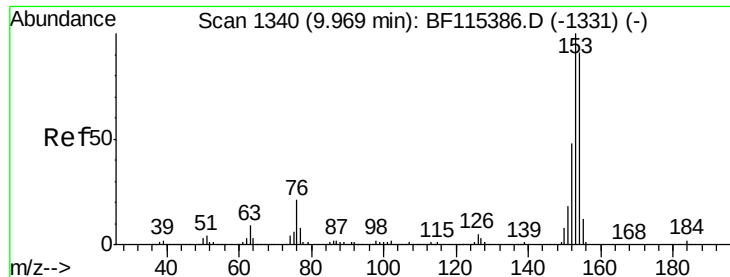


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#52

Acenaphthene

Concen: 4.824 ng

RT: 9.96 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

Instrument :

BNA\_F

ClientSampleId :

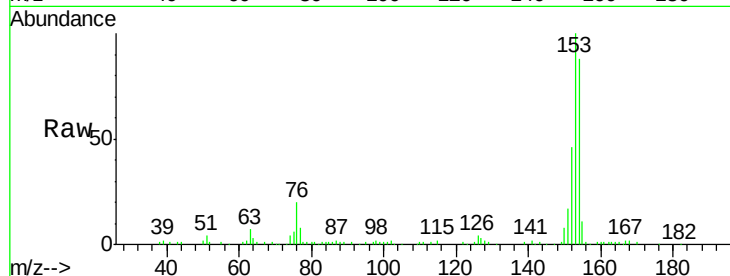
Tot Ion:154 Resp: 65309

Ion Ratio Lower Upper

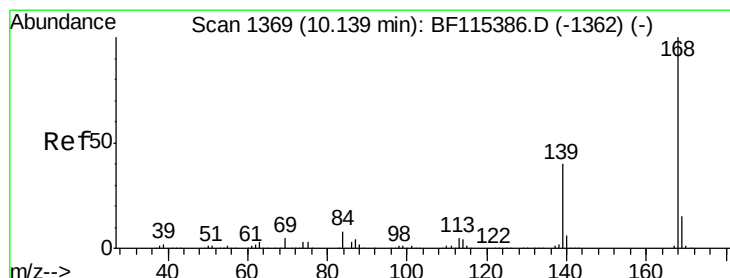
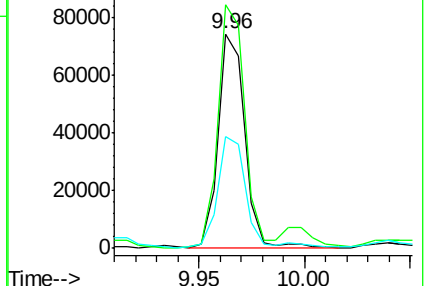
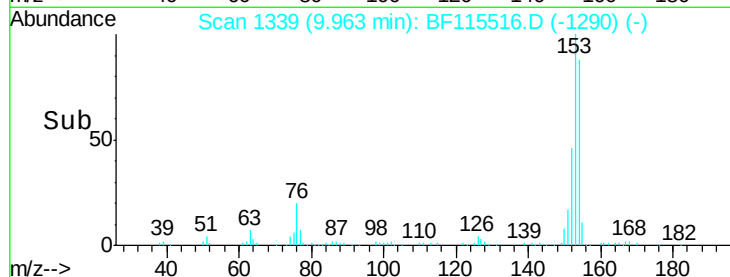
154 100

153 113.4 89.8 134.8

152 51.8 41.4 62.0



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



#55

Dibenzofuran

Concen: 4.448 ng

RT: 10.14 min Scan# 1369

Delta R.T. -0.01 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

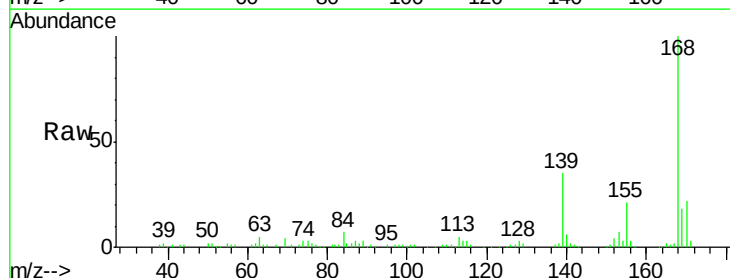
Tgt Ion:168 Resp: 84822

Ion Ratio Lower Upper

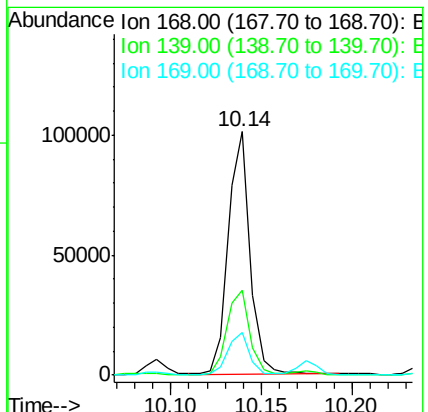
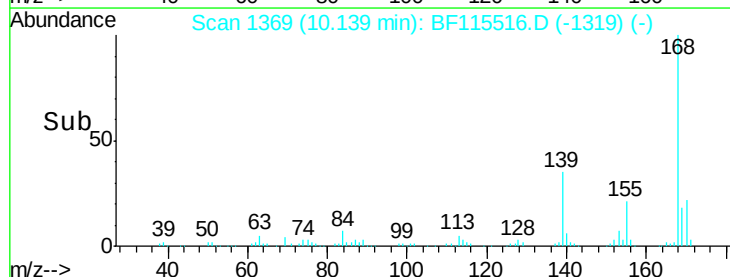
168 100

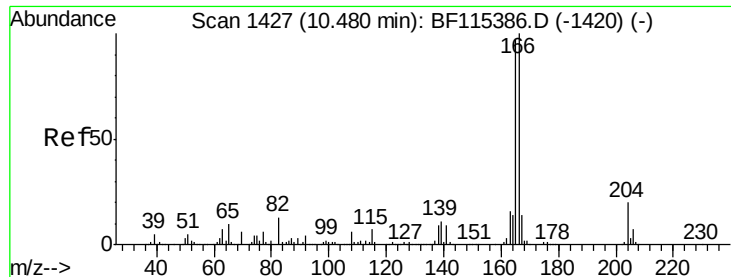
139 35.1 30.6 46.0

169 17.6 11.0 16.6#



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 13.803 ng

RT: 10.48 min Scan# 1427

Delta R.T. -0.01 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

Instrument :

BNA\_F

ClientSampleId :

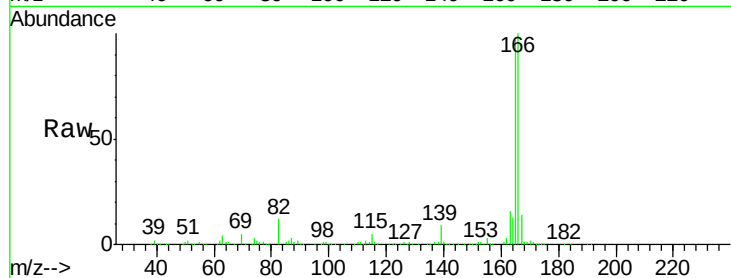
Tot Ion:166 Resp: 207481

Ion Ratio Lower Upper

166 100

165 97.5 78.7 118.1

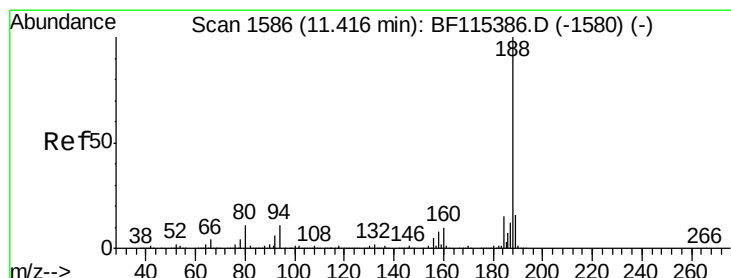
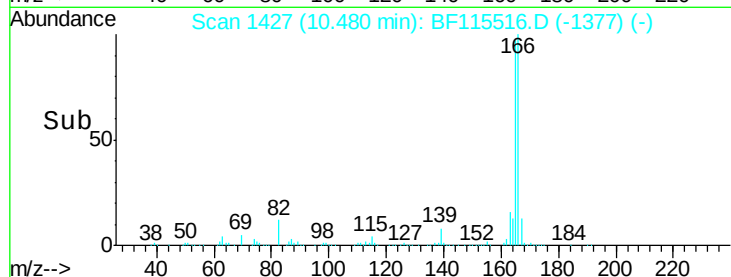
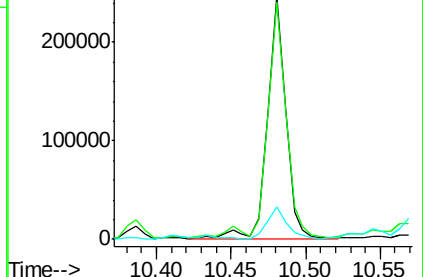
167 13.6 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.42 min Scan# 1587

Delta R.T. 0.00 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

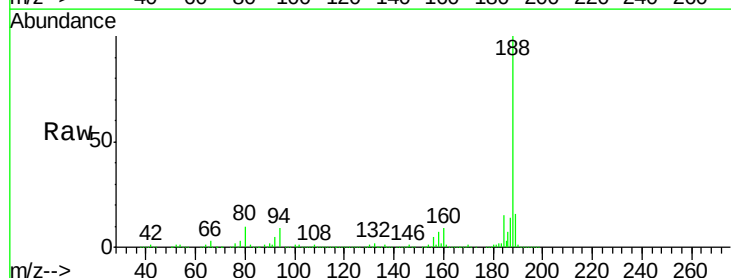
Tgt Ion:188 Resp: 362104

Ion Ratio Lower Upper

188 100

94 9.2 7.8 11.8

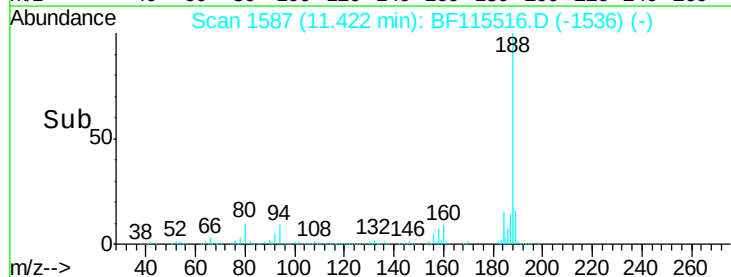
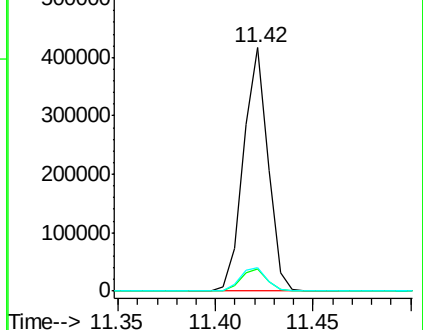
80 9.8 8.4 12.6

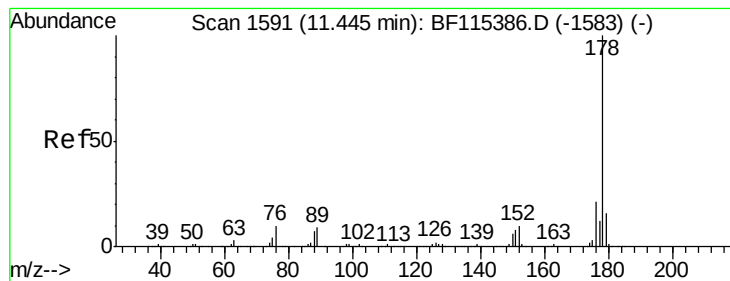


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 59.006 ng

RT: 11.45 min Scan# 1591

Delta R.T. -0.01 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

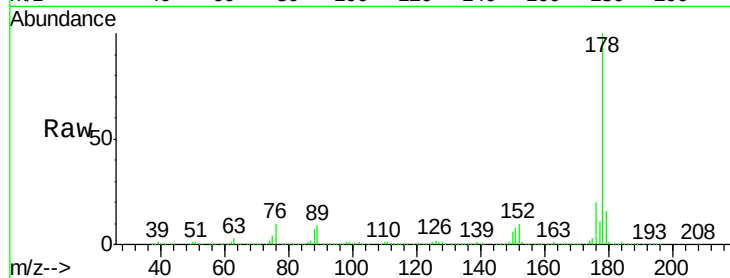
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:178 Resp: 1123701

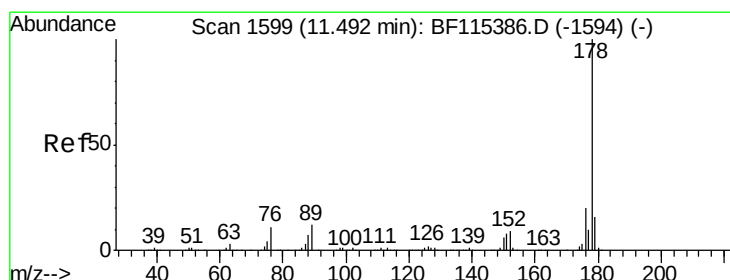
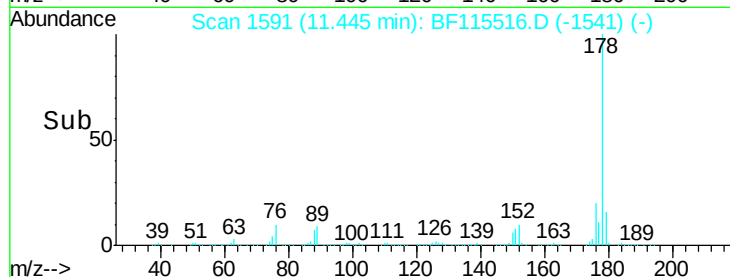
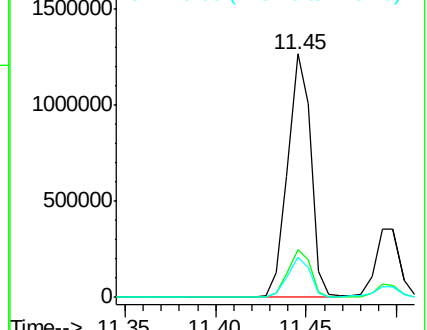
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.8  | 16.6  | 24.8  |
| 179 | 16.2  | 12.7  | 19.1  |



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: 16.832 ng

RT: 11.49 min Scan# 1599

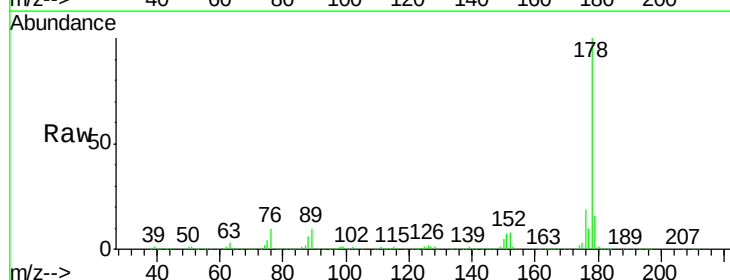
Delta R.T. -0.01 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

Tgt Ion:178 Resp: 321440

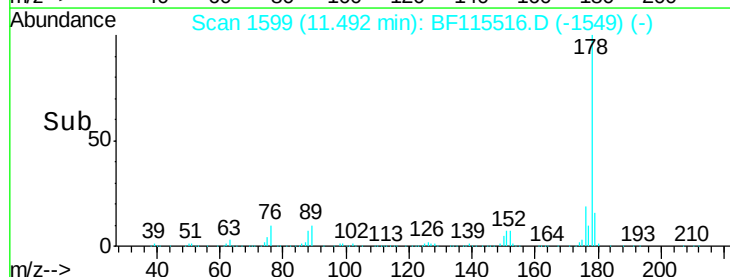
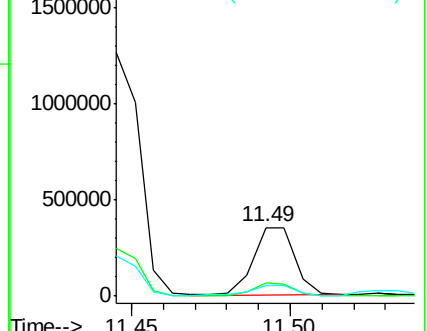
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.3  | 15.8  | 23.6  |
| 179 | 15.7  | 13.0  | 19.6  |

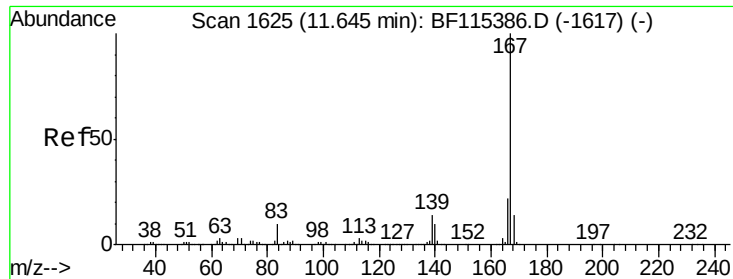


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

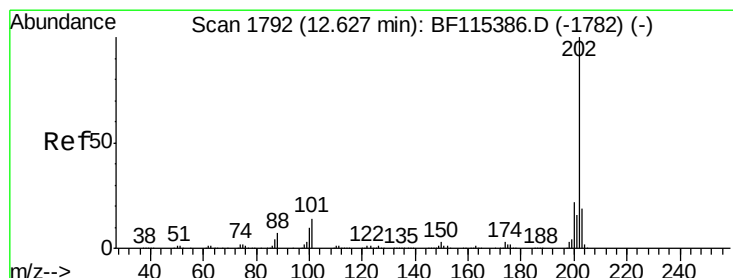
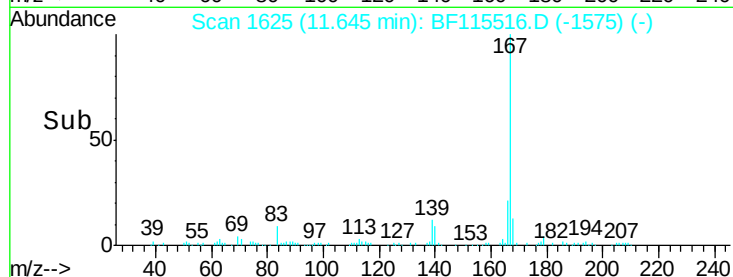
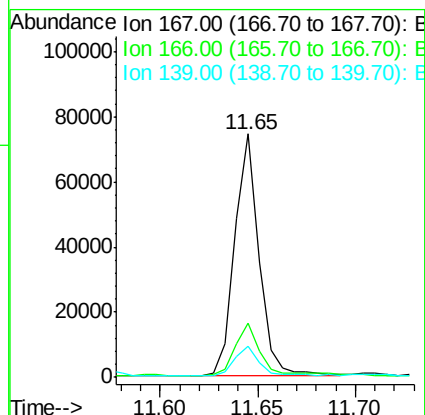
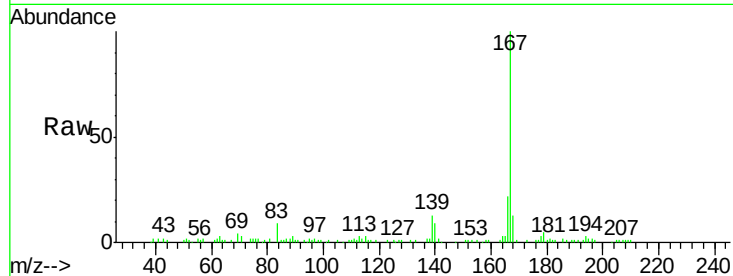




#73  
 Carbazole  
 Concen: 3.710 ng  
 RT: 11.65 min Scan# 1625  
 Delta R.T. -0.01 min  
 Lab File: BF115516.D  
 Acq: 12 Jul 2019 1:07

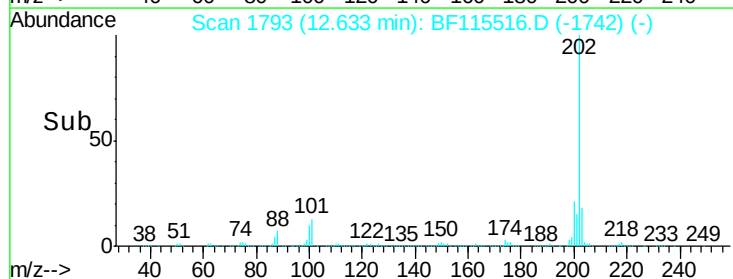
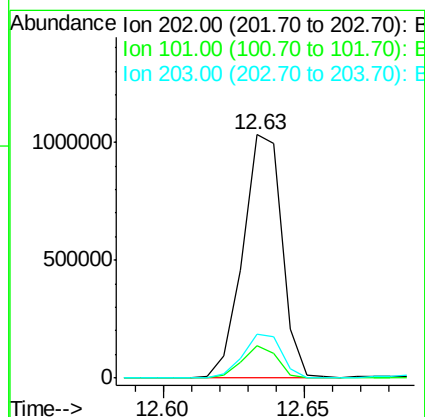
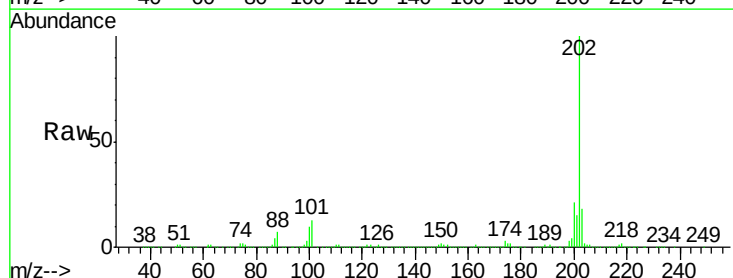
Instrument :  
 BNA\_F  
 ClientSampleId :

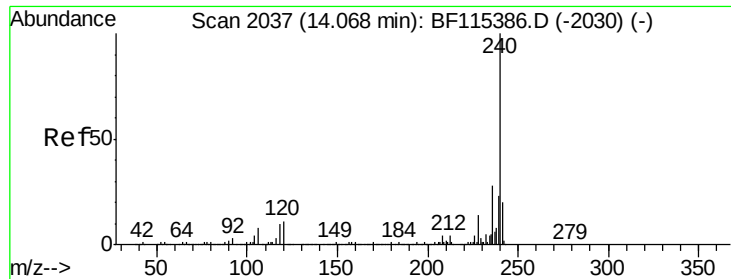
Tot Ion:167 Resp: 64811  
 Ion Ratio Lower Upper  
 167 100  
 166 22.3 17.8 26.8  
 139 12.7 10.9 16.3



#75  
 Fluoranthene  
 Concen: 49.370 ng  
 RT: 12.63 min Scan# 1793  
 Delta R.T. 0.00 min  
 Lab File: BF115516.D  
 Acq: 12 Jul 2019 1:07

Tgt Ion:202 Resp: 989948  
 Ion Ratio Lower Upper  
 202 100  
 101 13.4 0.0 33.9  
 203 18.2 0.0 38.4

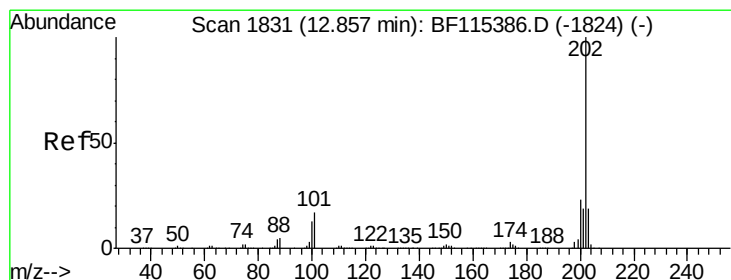
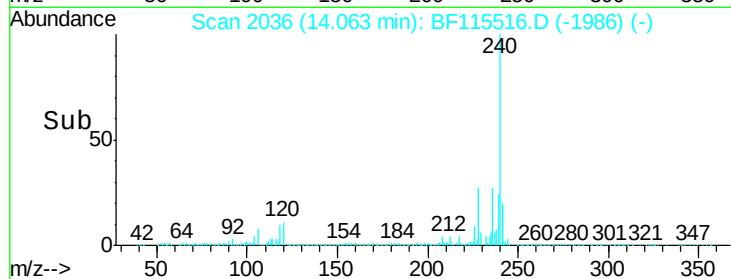
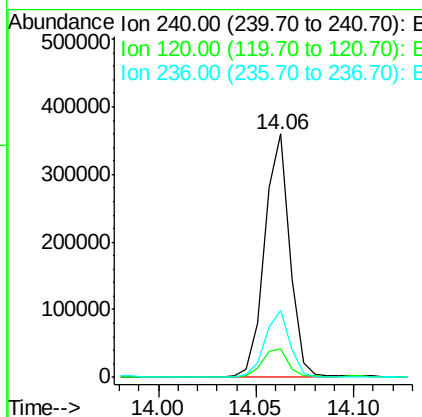
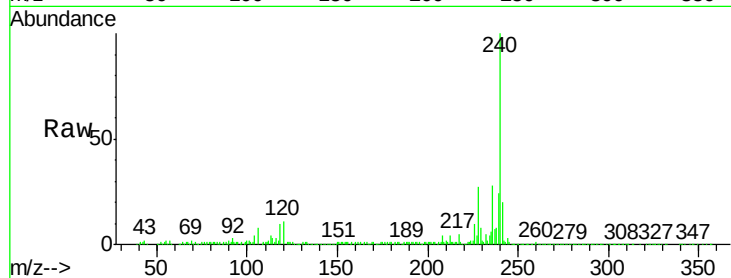




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.06 min Scan# 2036  
 Delta R.T. -0.01 min  
 Lab File: BF115516.D  
 Acq: 12 Jul 2019 1:07

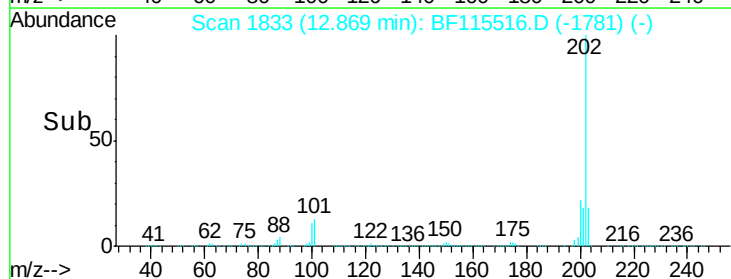
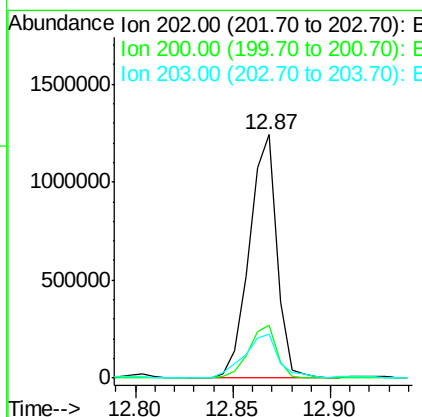
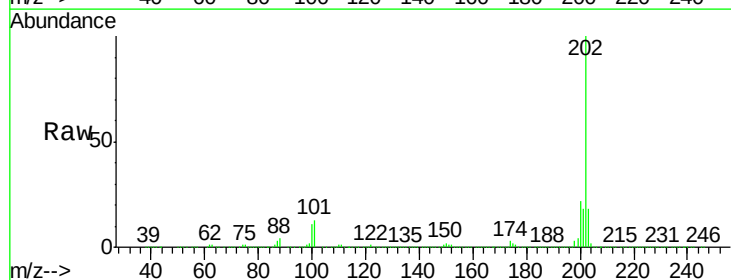
Instrument :  
 BNA\_F  
 ClientSampled :

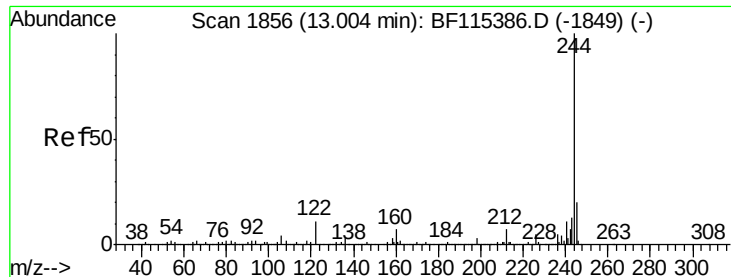
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.5  | 10.2  | 15.4  |
| 236     | 27.6  | 21.1  | 31.7  |



#78  
 Pyrene  
 Concen: 49.075 ng  
 RT: 12.87 min Scan# 1833  
 Delta R.T. 0.01 min  
 Lab File: BF115516.D  
 Acq: 12 Jul 2019 1:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.9  | 17.6  | 26.4  |
| 203     | 18.1  | 14.7  | 22.1  |





#79

Terphenyl-d14

Concen: 16.029 ng

RT: 13.00 min Scan# 1856

Delta R.T. -0.01 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

Instrument :

BNA\_F

ClientSampleId :

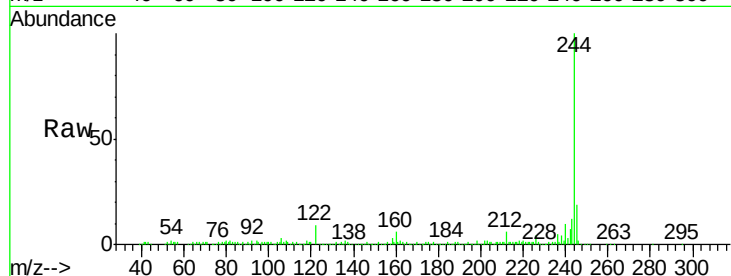
Tot Ion:244 Resp: 249588

Ion Ratio Lower Upper

244 100

212 6.5 5.7 8.5

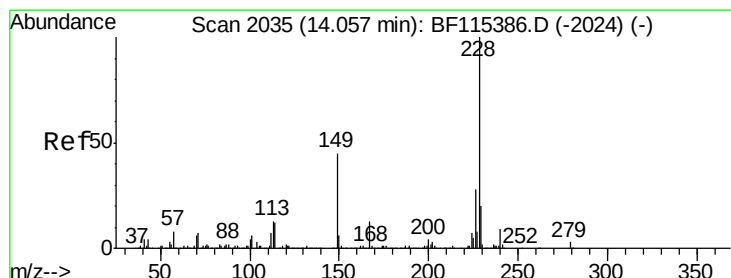
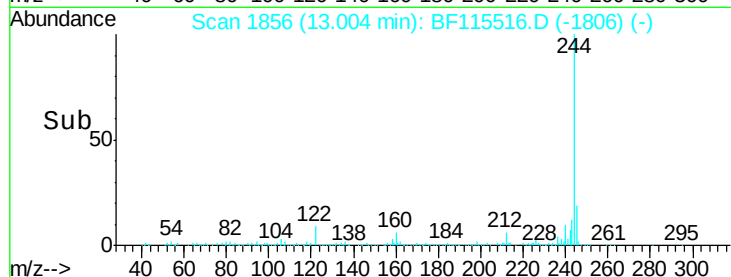
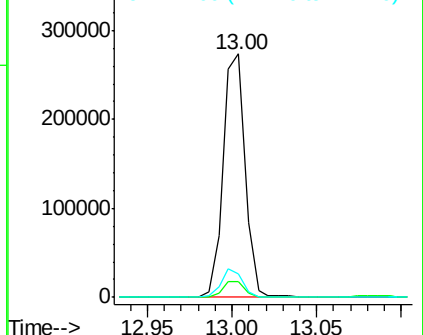
122 9.5 9.1 13.7



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 28.610 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

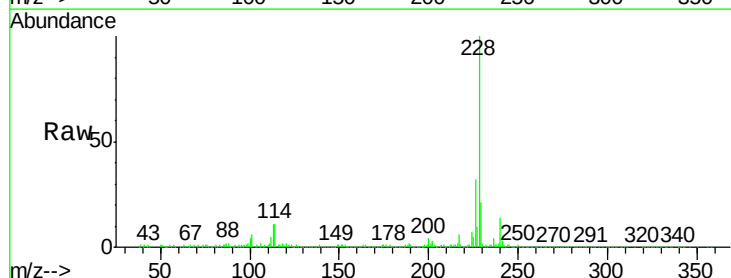
Tgt Ion:228 Resp: 584431

Ion Ratio Lower Upper

228 100

226 32.2 22.6 34.0

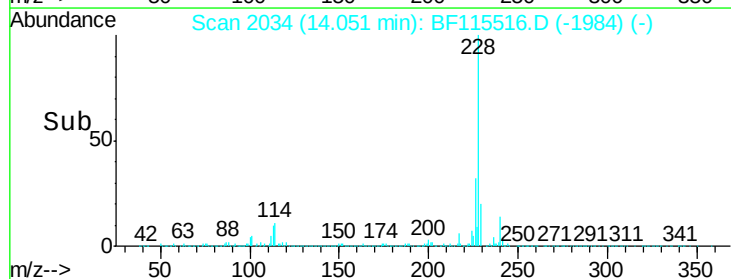
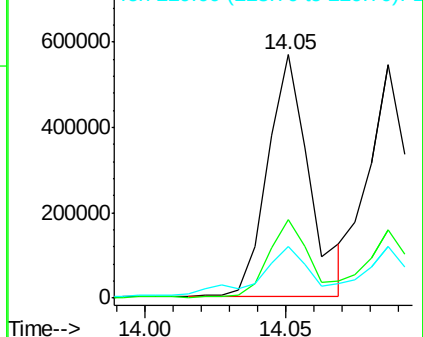
229 20.9 16.4 24.6



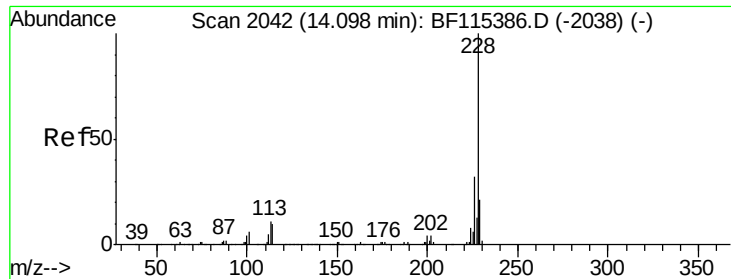
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E







#83

Chrysene

Concen: 24.133 ng

RT: 14.09 min Scan# 2040

Delta R.T. -0.01 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

Instrument :

BNA\_F

ClientSampleId :

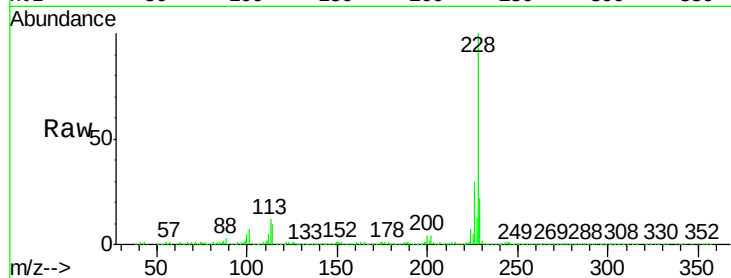
Tot Ion:228 Resp: 506521

Ion Ratio Lower Upper

228 100

226 29.6 25.1 37.7

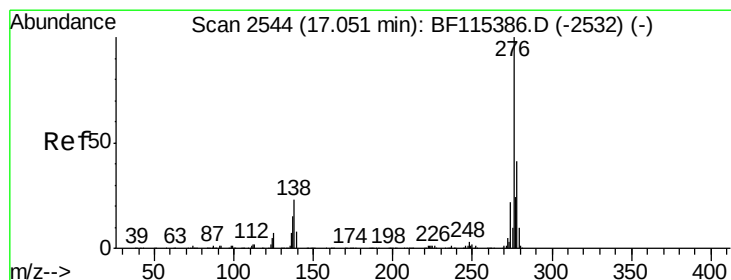
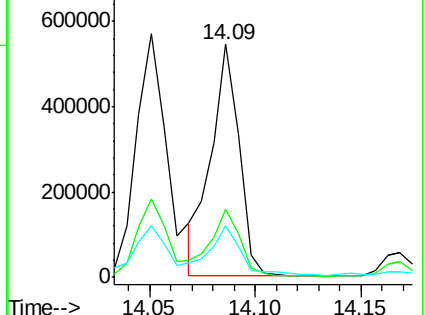
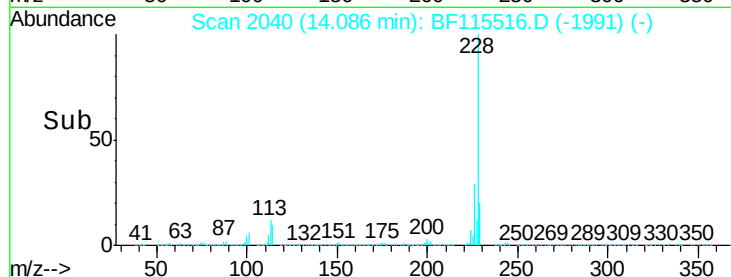
229 22.0 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 6.101 ng

RT: 17.03 min Scan# 2540

Delta R.T. -0.03 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

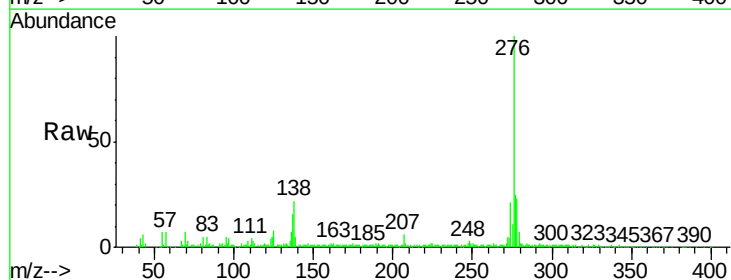
Tgt Ion:276 Resp: 192442

Ion Ratio Lower Upper

276 100

138 22.0 20.6 31.0

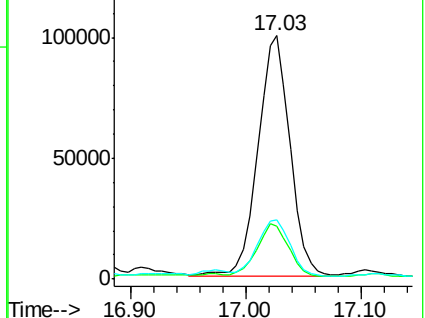
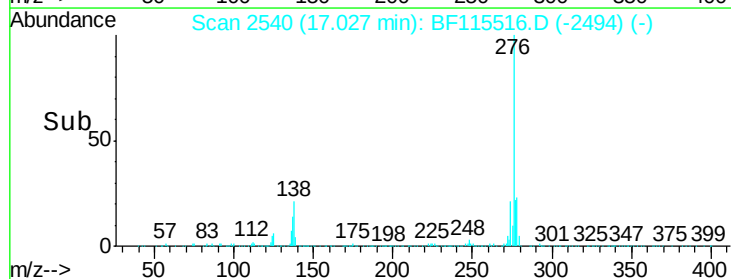
277 24.6 20.2 30.2

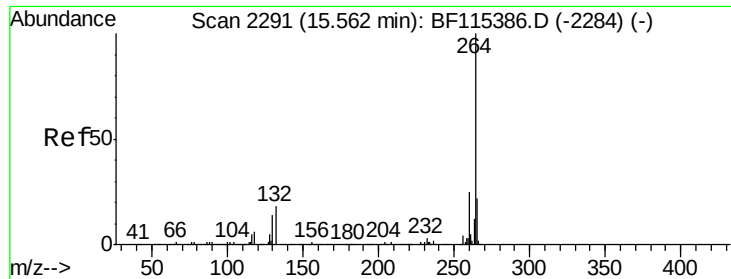


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

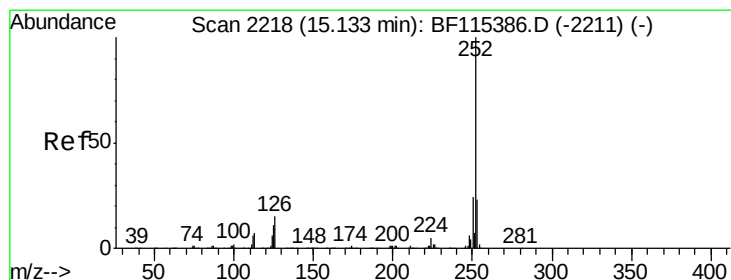
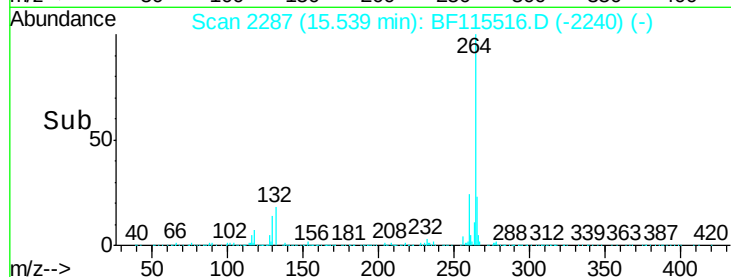
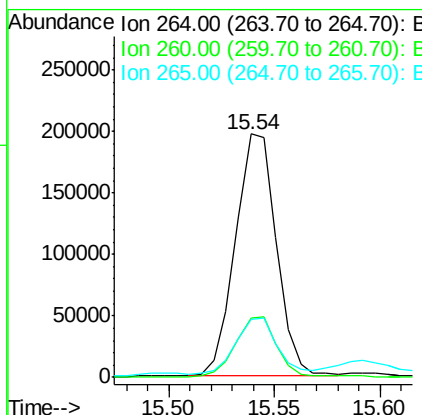
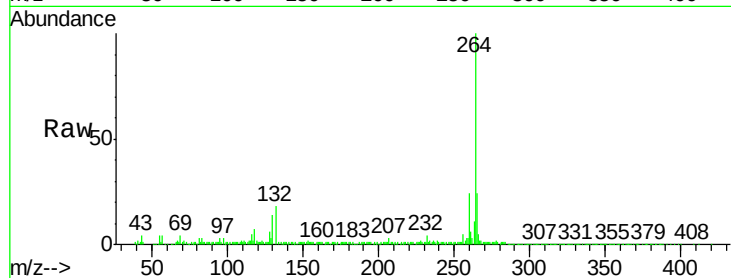




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.54 min Scan# 2287  
Delta R.T. -0.02 min  
Lab File: BF115516.D  
Acq: 12 Jul 2019 1:07

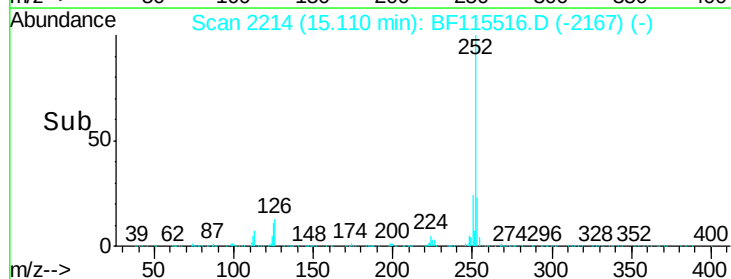
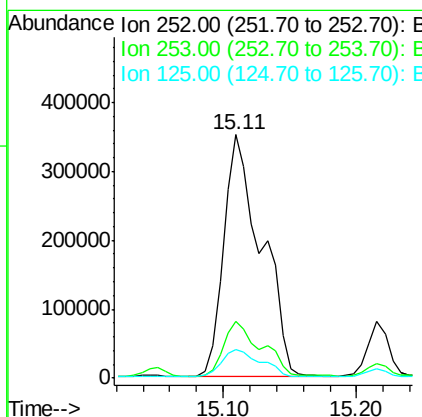
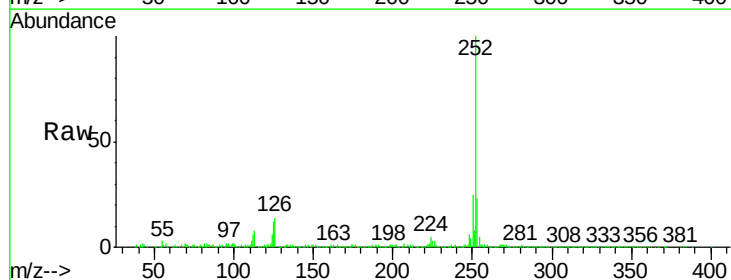
Instrument :  
BNA\_F  
ClientSampled :

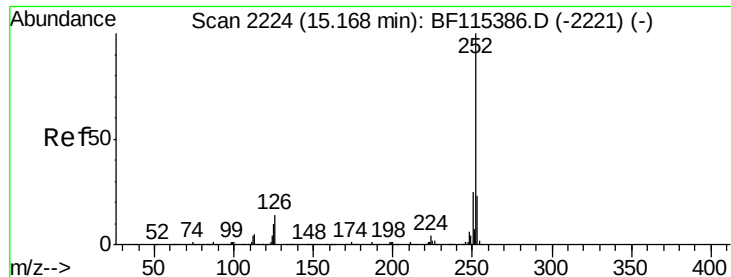
Tot Ion:264 Resp: 265635  
Ion Ratio Lower Upper  
264 100  
260 24.5 20.1 30.1  
265 23.7 17.8 26.6



#88  
Benzo(b)fluoranthene  
Concen: 40.111 ng  
RT: 15.11 min Scan# 2214  
Delta R.T. -0.02 min  
Lab File: BF115516.D  
Acq: 12 Jul 2019 1:07

Tgt Ion:252 Resp: 693721  
Ion Ratio Lower Upper  
252 100  
253 23.5 18.0 27.0  
125 11.9 8.5 12.7

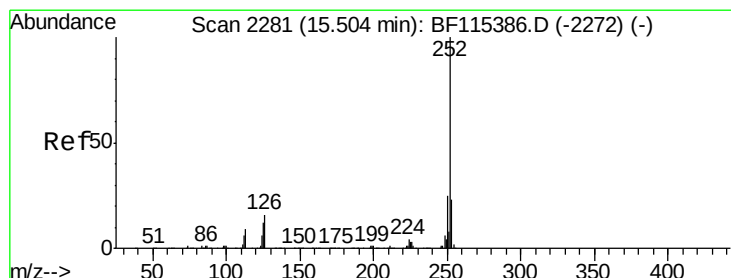
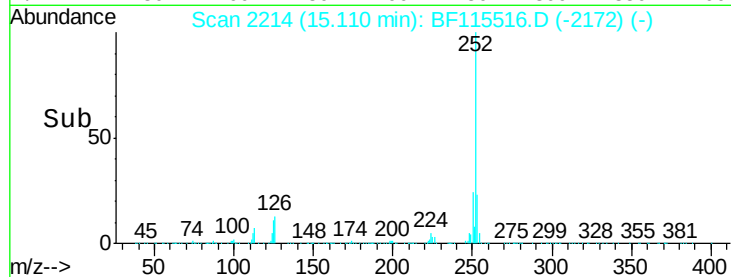
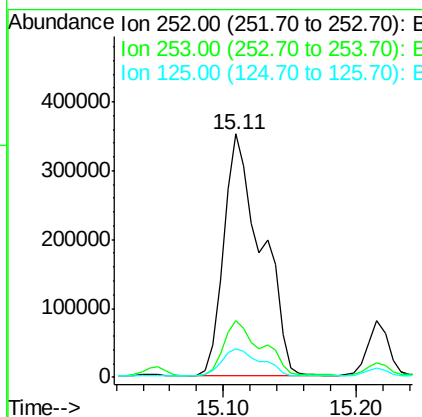
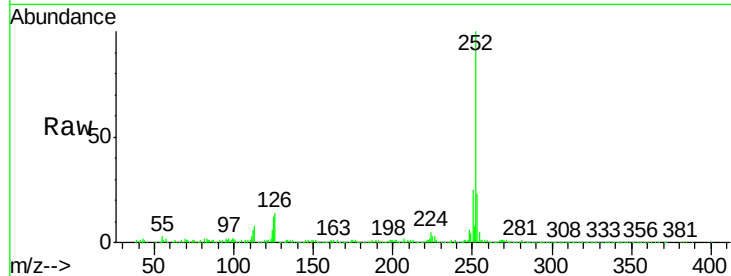




#89  
Benzo(k)fluoranthene  
Concen: 45.102 ng  
RT: 15.11 min Scan# 2214  
Delta R.T. -0.05 min  
Lab File: BF115516.D  
Acq: 12 Jul 2019 1:07

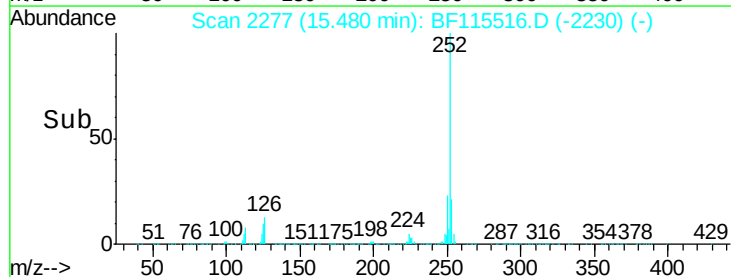
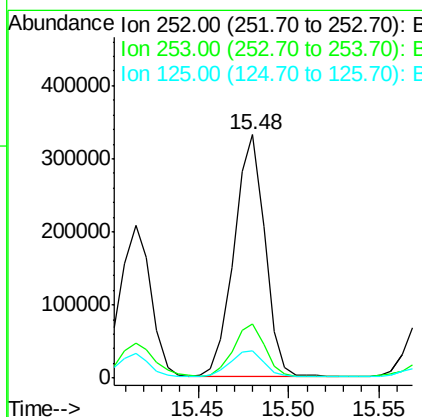
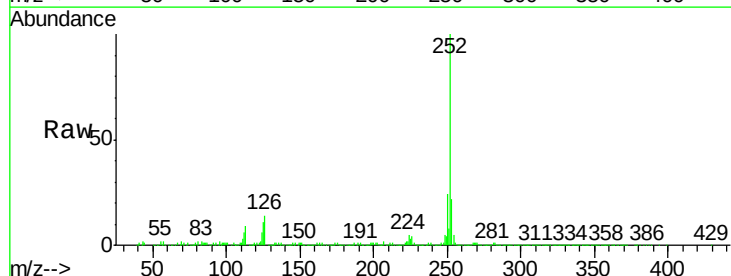
Instrument :  
BNA\_F  
ClientSampleId :

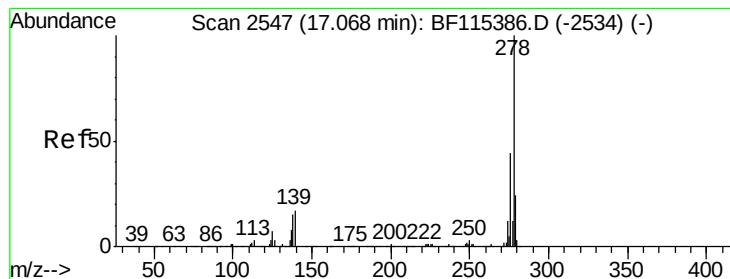
Tot Ion:252 Resp: 693721  
Ion Ratio Lower Upper  
252 100  
253 23.5 18.0 27.0  
125 11.9 8.6 13.0



#90  
Benzo(a)pyrene  
Concen: 26.387 ng  
RT: 15.48 min Scan# 2277  
Delta R.T. -0.02 min  
Lab File: BF115516.D  
Acq: 12 Jul 2019 1:07

Tgt Ion:252 Resp: 393628  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.7 26.5  
125 11.4 9.7 14.5





#91

Dibenzo(a,h)anthracene

Concen: 4.237 ng

RT: 17.04 min Scan# 2542

Delta R.T. -0.04 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

Instrument :

BNA\_F

ClientSampleId :

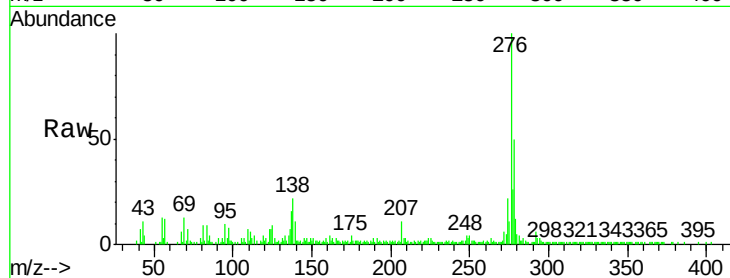
Tot Ion:278 Resp: 54009

Ion Ratio Lower Upper

278 100

139 21.4 13.0 19.6#

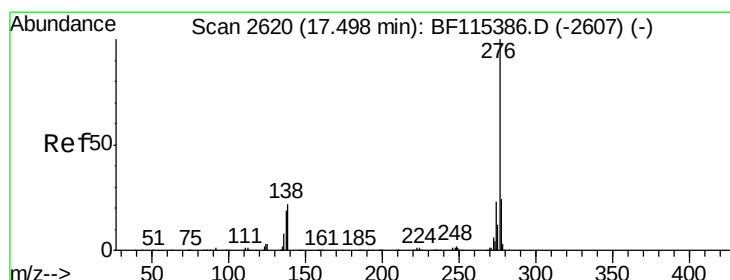
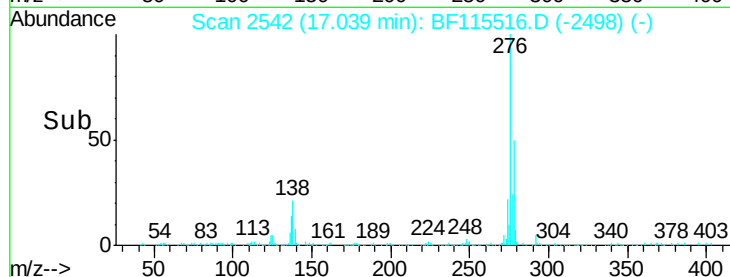
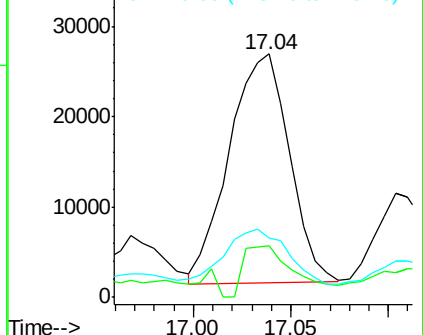
279 24.3 19.4 29.2



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: 14.402 ng

RT: 17.47 min Scan# 2616

Delta R.T. -0.04 min

Lab File: BF115516.D

Acq: 12 Jul 2019 1:07

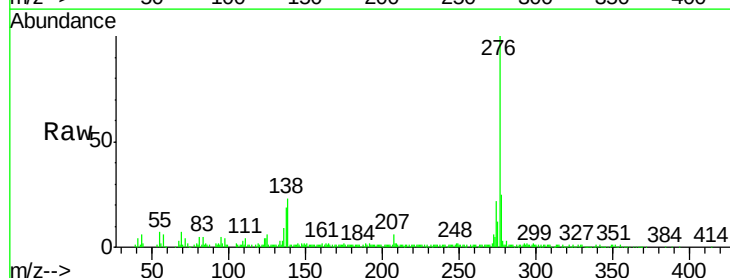
Tgt Ion:276 Resp: 173765

Ion Ratio Lower Upper

276 100

277 24.6 18.8 28.2

138 22.7 17.8 26.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

