

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041519\  
 Data File : BF113763.D  
 Acq On : 15 Apr 2019 15:12  
 Operator : JU/SJ  
 Sample : K2407-03  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 15 23:07:31 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 04 04:05:31 2019  
 Response via : Initial Calibration

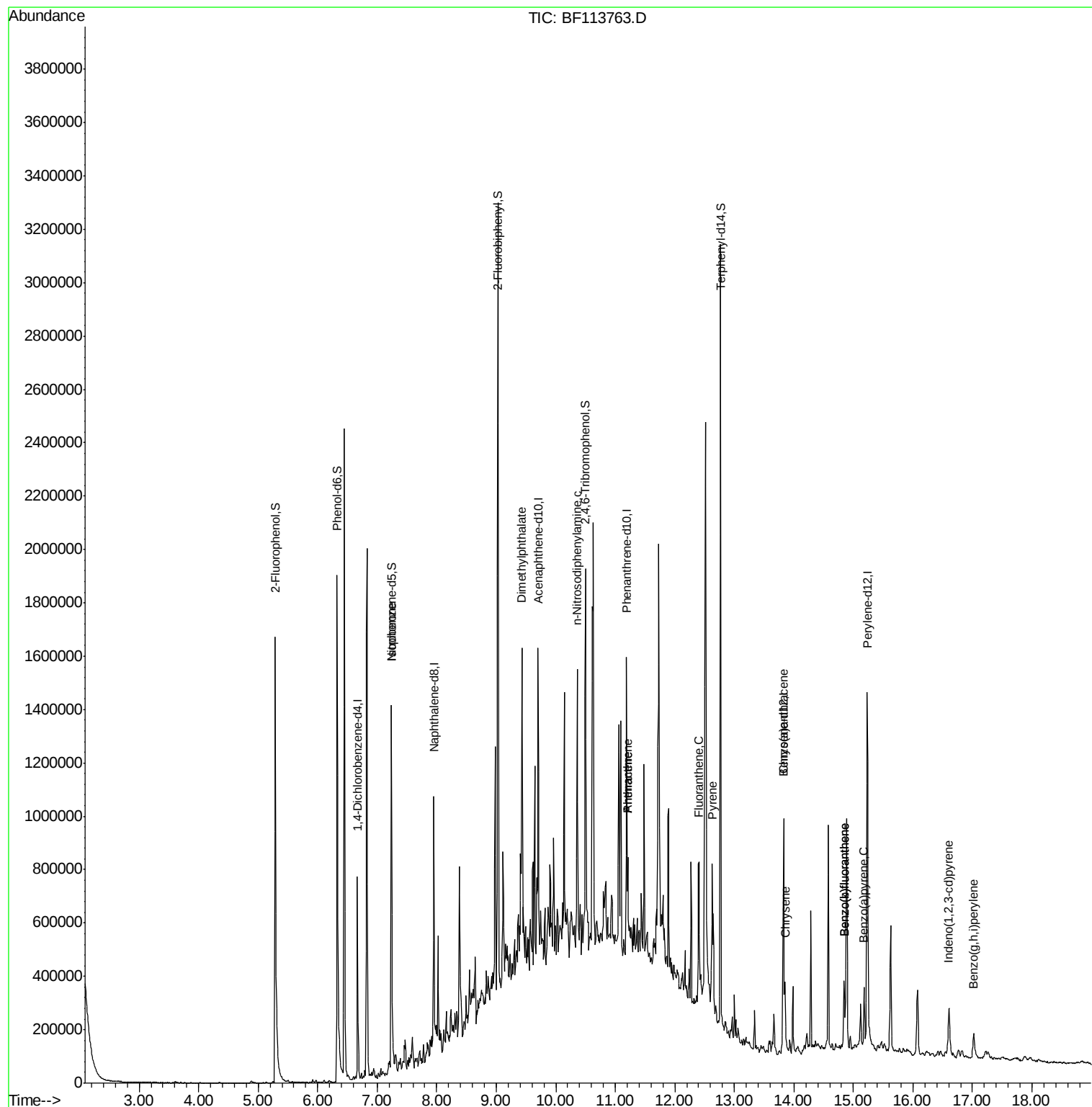
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.67  | 152  | 123215   | 20.00  | ng    | -0.02       |
| 21) Naphthalene-d8          | 7.95  | 136  | 457539   | 20.00  | ng    | -0.02       |
| 39) Acenaphthene-d10        | 9.70  | 164  | 214651   | 20.00  | ng    | -0.02       |
| 64) Phenanthrene-d10        | 11.19 | 188  | 431803   | 20.00  | ng    | -0.02       |
| 76) Chrysene-d12            | 13.83 | 240  | 293390   | 20.00  | ng    | -0.02       |
| 87) Perylene-d12            | 15.23 | 264  | 308923   | 20.00  | ng    | -0.02       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.29  | 112  | 679292   | 94.01  | ng    | -0.01       |
| 7) Phenol-d6                | 6.33  | 99   | 912626   | 102.48 | ng    | -0.01       |
| 23) Nitrobenzene-d5         | 7.24  | 82   | 516759   | 66.16  | ng    | -0.02       |
| 42) 2,4,6-Tribromophenol    | 10.50 | 330  | 223996   | 86.87  | ng    | -0.02       |
| 45) 2-Fluorobiphenyl        | 9.03  | 172  | 971780   | 72.88  | ng    | -0.02       |
| 79) Terphenyl-d14           | 12.77 | 244  | 1056584  | 73.32  | ng    | -0.02       |
| Target Compounds            |       |      |          |        |       |             |
| 25) Isophorone              | 7.24  | 82   | 517861   | 34.416 | ng    | Qvalue # 64 |
| 50) Dimethylphthalate       | 9.43  | 163  | 97245    | 6.146  | ng    | # 99        |
| 66) n-Nitrosodiphenylamine  | 10.36 | 169  | 35122    | 2.649  | ng    | # 49        |
| 71) Phenanthrene            | 11.21 | 178  | 148890   | 6.939  | ng    | 98          |
| 72) Anthracene              | 11.21 | 178  | 148890   | 6.820  | ng    | 99          |
| 75) Fluoranthene            | 12.40 | 202  | 263116   | 11.444 | ng    | 97          |
| 78) Pyrene                  | 12.63 | 202  | 236500   | 10.594 | ng    | 99          |
| 81) Benzo(a)anthracene      | 13.82 | 228  | 111188   | 6.570  | ng    | 96          |
| 83) Chrysene                | 13.85 | 228  | 93986    | 5.478  | ng    | 99          |
| 86) Indeno(1,2,3-cd)pyrene  | 16.61 | 276  | 82651    | 5.218  | ng    | 94          |
| 88) Benzo(b)fluoranthene    | 14.84 | 252  | 182012   | 9.625  | ng    | 99          |
| 89) Benzo(k)fluoranthene    | 14.84 | 252  | 182012   | 10.725 | ng    | 99          |
| 90) Benzo(a)pyrene          | 15.18 | 252  | 104785   | 6.236  | ng    | 99          |
| 92) Benzo(a,h,i)perylene    | 17.02 | 276  | 87212    | 5.438  | ng    | 96          |

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

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BNA\_F  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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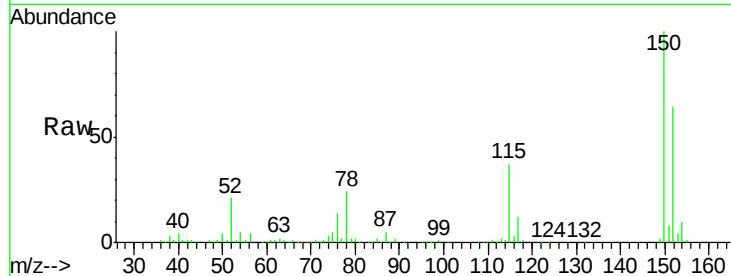


#1

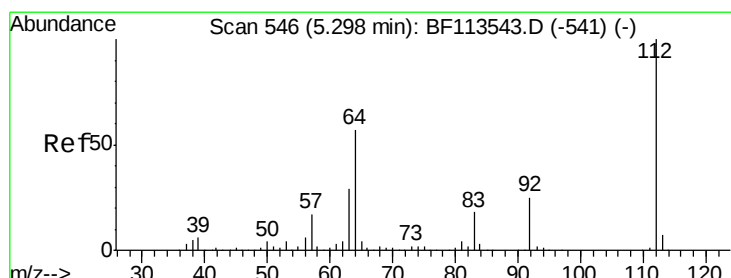
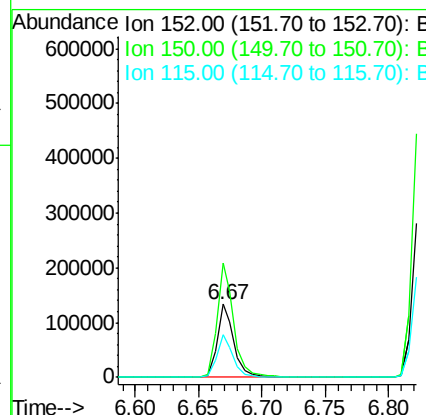
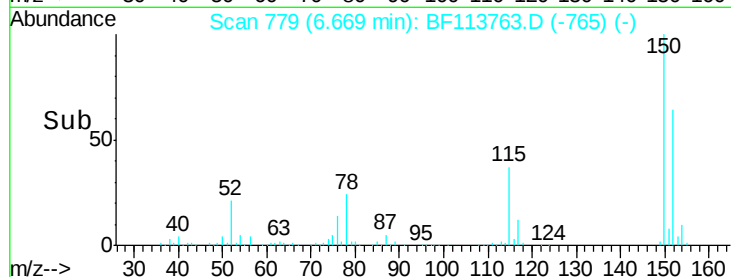
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.67 min Scan# 779  
Delta R.T. -0.02 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.7 | 124.7 | 187.1 |
| 115     | 58.6  | 46.0  | 69.0  |



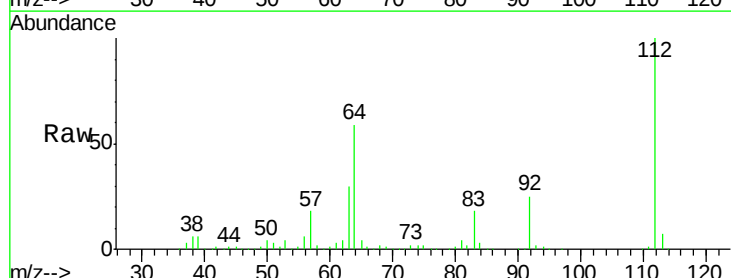
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



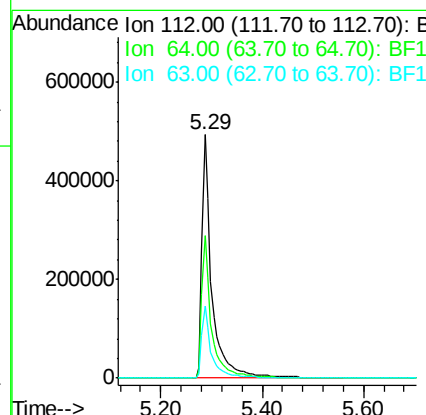
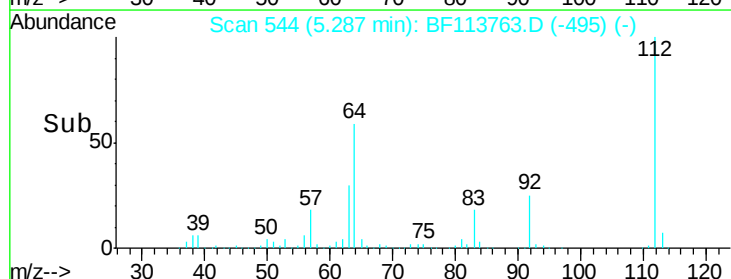
#5

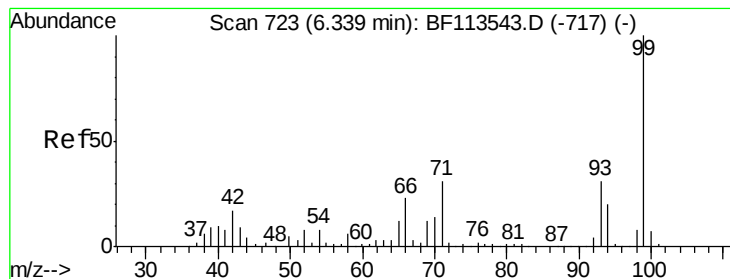
2-Fluorophenol  
Concen: 94.010 ng  
RT: 5.29 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.6  | 49.2  | 73.8  |
| 63      | 29.8  | 24.9  | 37.3  |



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: 102.476 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF113763.D

Acq: 15 Apr 2019 15:12

Instrument :

BNA\_F

ClientSampled :

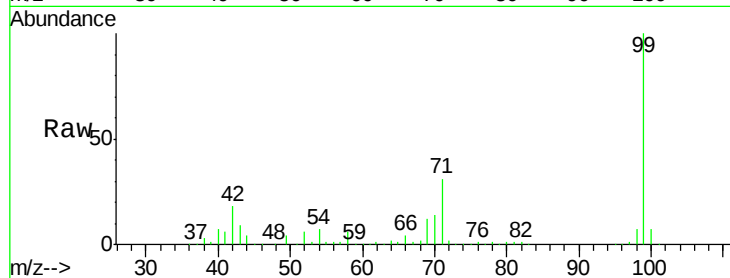
Tot Ion: 99 Resp: 912626

Ion Ratio Lower Upper

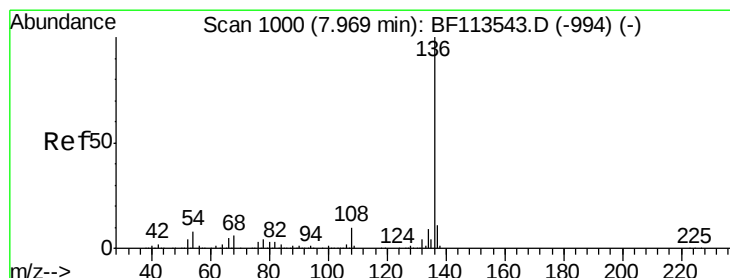
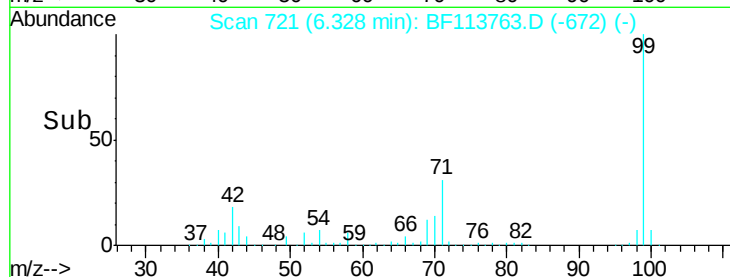
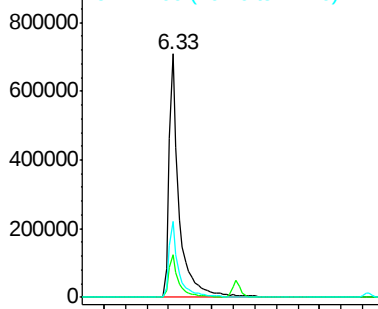
99 100

42 17.7 14.8 22.2

71 31.4 24.9 37.3



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: 7.95 min Scan# 997

Delta R.T. -0.02 min

Lab File: BF113763.D

Acq: 15 Apr 2019 15:12

Tgt Ion: 136 Resp: 457539

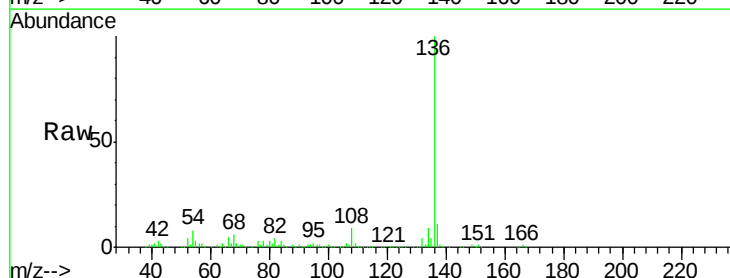
Ion Ratio Lower Upper

136 100

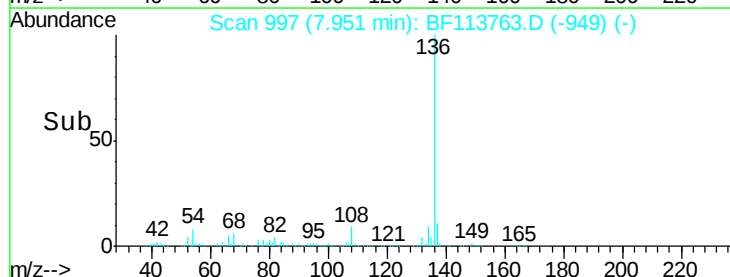
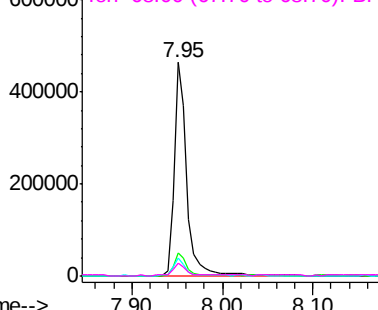
137 10.9 8.9 13.3

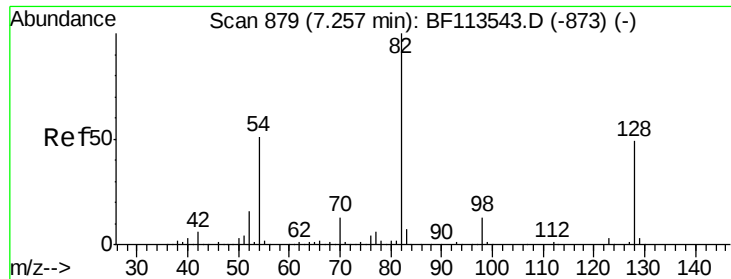
54 8.5 7.0 10.6

68 6.1 4.8 7.2



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

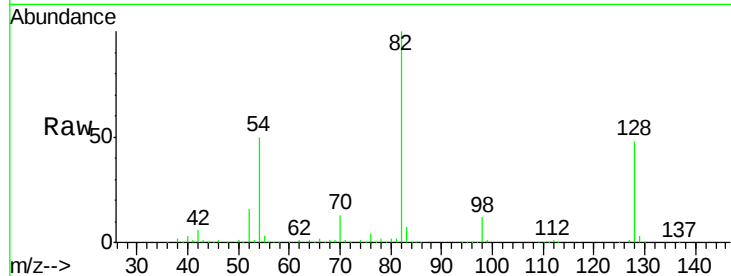




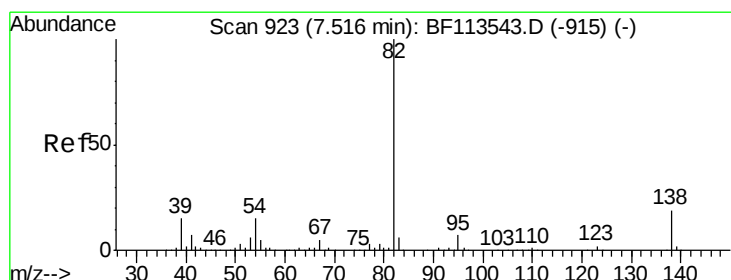
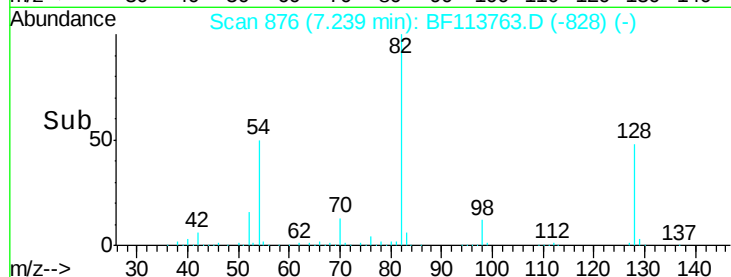
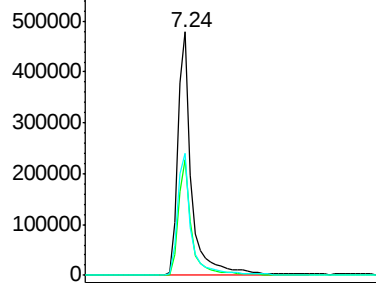
#23  
Nitrobenzene-d5  
Concen: 66.157 ng  
RT: 7.24 min Scan# 876  
Delta R.T. -0.02 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 516759  
Ion Ratio Lower Upper  
82 100  
128 47.7 36.5 54.7  
54 50.3 42.2 63.2

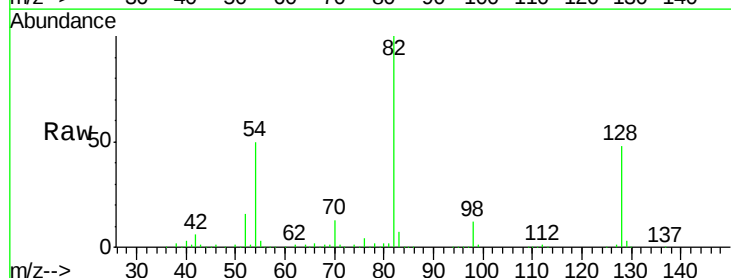


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

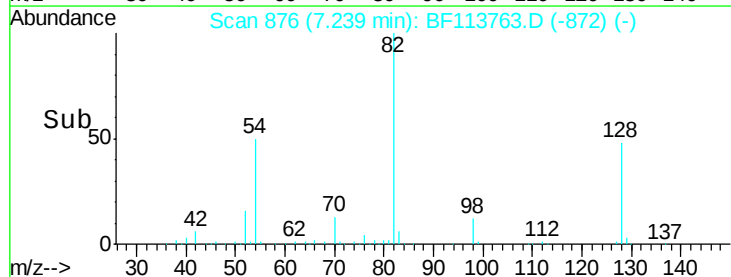
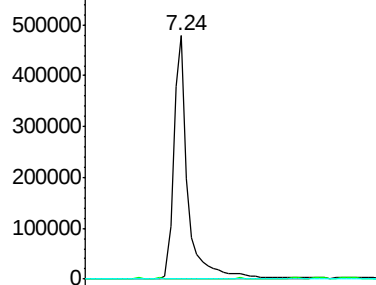


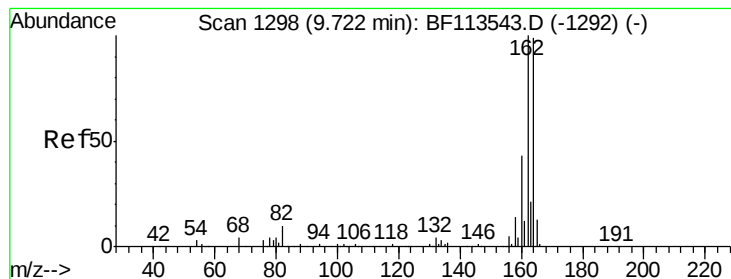
#25  
Isophorone  
Concen: 34.416 ng  
RT: 7.24 min Scan# 876  
Delta R.T. -0.28 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

Tgt Ion: 82 Resp: 517861  
Ion Ratio Lower Upper  
82 100  
95 0.4 5.5 8.3#  
138 0.0 15.2 22.8#



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.70 min Scan# 1295

Delta R.T. -0.02 min

Lab File: BF113763.D

Acq: 15 Apr 2019 15:12

Instrument :

BNA\_F

ClientSampleId :

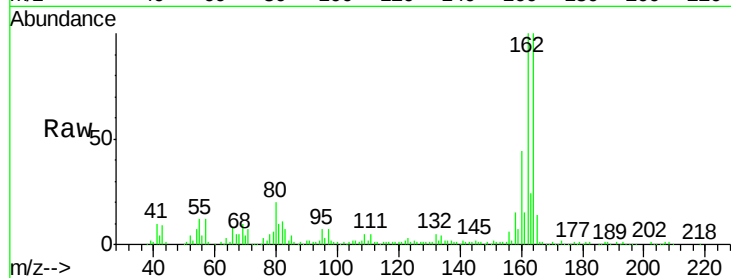
Tot Ion:164 Resp: 214651

Ion Ratio Lower Upper

164 100

162 100.2 81.8 122.6

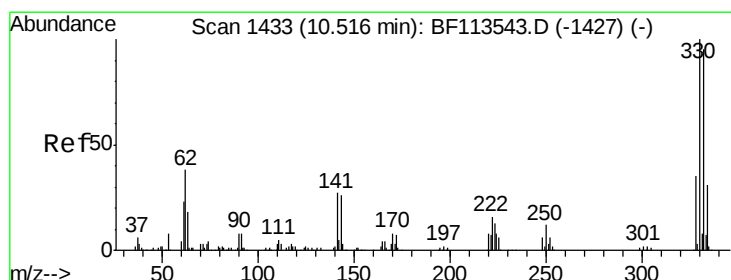
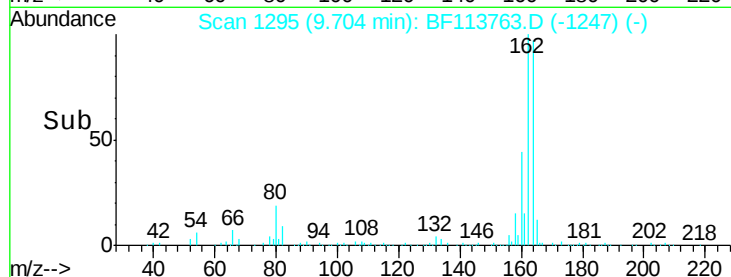
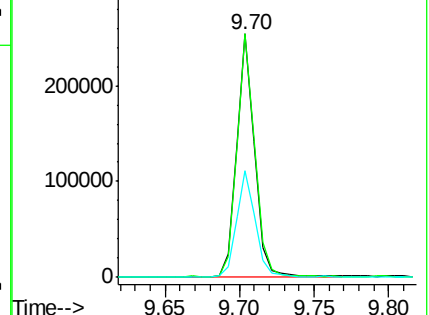
160 44.1 36.4 54.6



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: 86.871 ng

RT: 10.50 min Scan# 1430

Delta R.T. -0.02 min

Lab File: BF113763.D

Acq: 15 Apr 2019 15:12

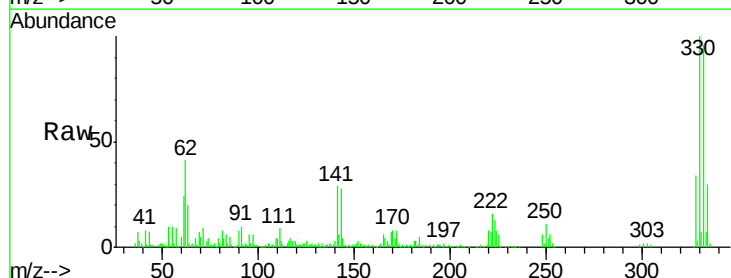
Tgt Ion:330 Resp: 223996

Ion Ratio Lower Upper

330 100

332 94.9 77.8 116.6

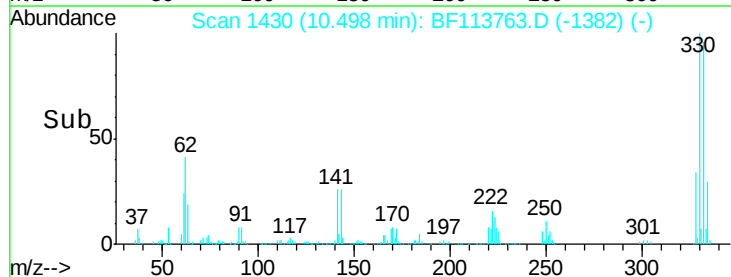
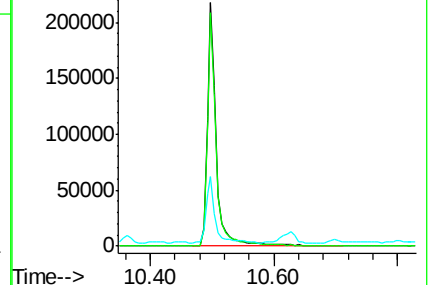
141 27.5 22.7 34.1

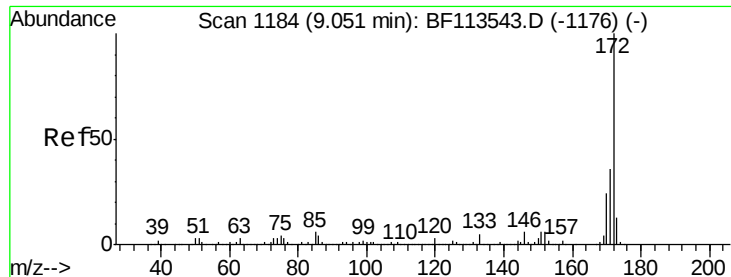


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

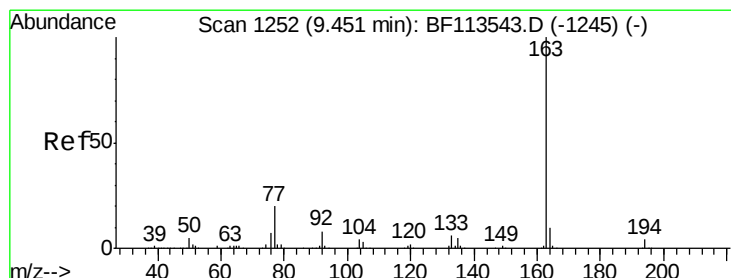
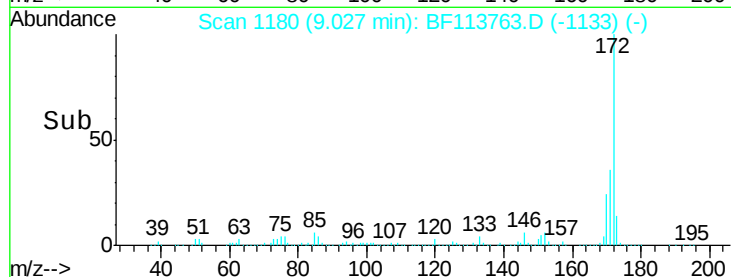
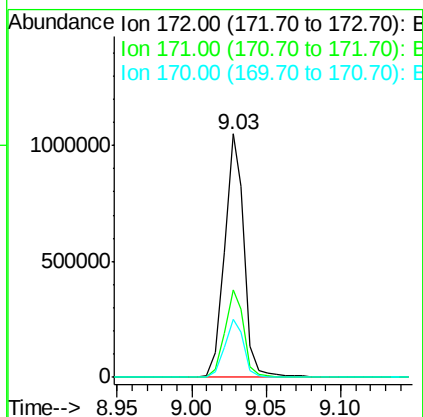
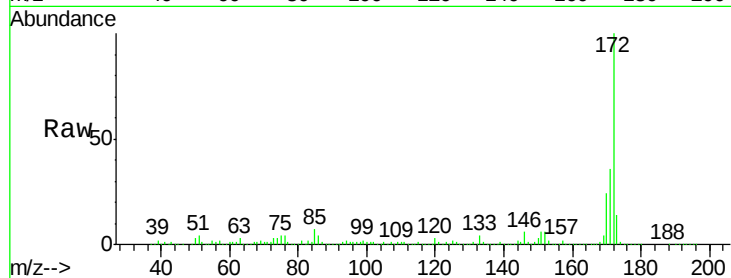




#45  
2-Fluorobiphenyl  
Concen: 72.884 ng  
RT: 9.03 min Scan# 1180  
Delta R.T. -0.02 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

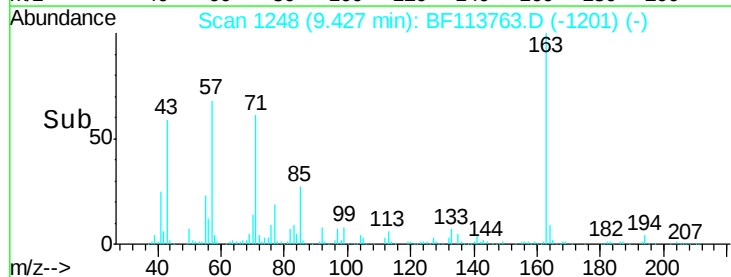
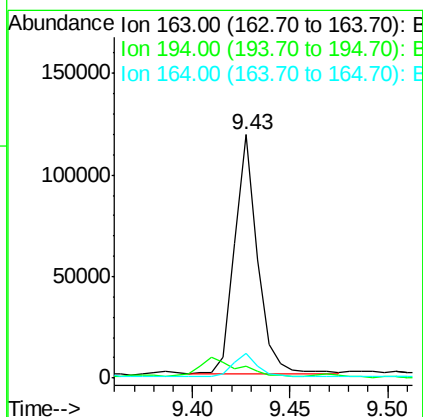
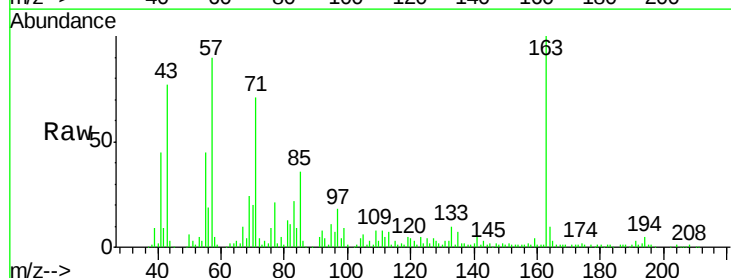
Instrument :  
BNA\_F  
ClientSampled :

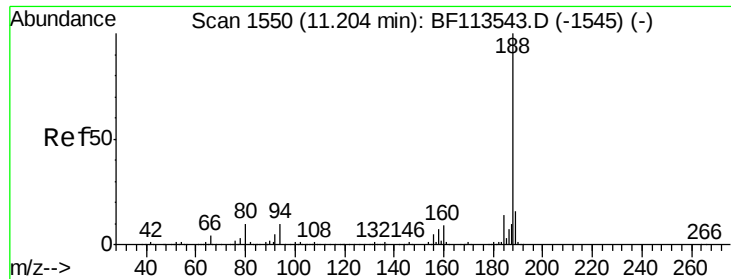
Tot Ion:172 Resp: 971780  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.0 43.6  
170 24.0 19.5 29.3



#50  
Dimethylphthalate  
Concen: 6.146 ng  
RT: 9.43 min Scan# 1248  
Delta R.T. -0.02 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

Tgt Ion:163 Resp: 97245  
Ion Ratio Lower Upper  
163 100  
194 4.7 3.0 4.6#  
164 10.1 8.1 12.1

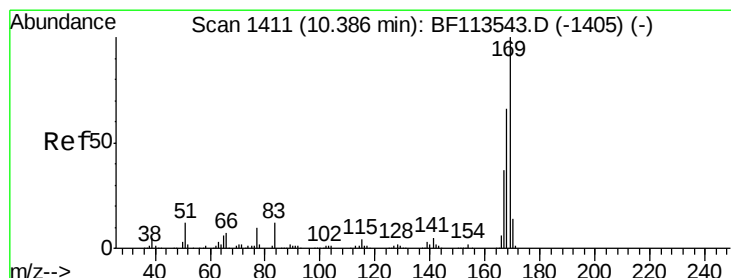
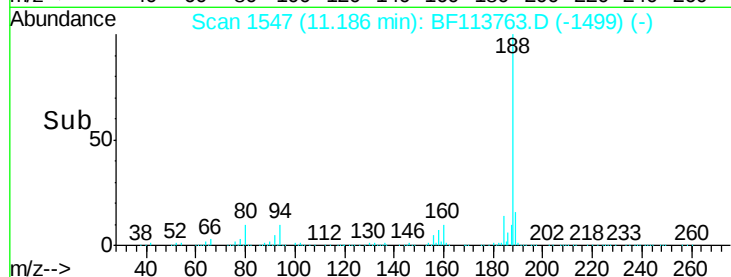
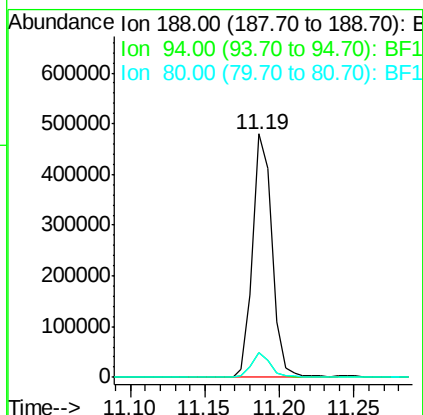
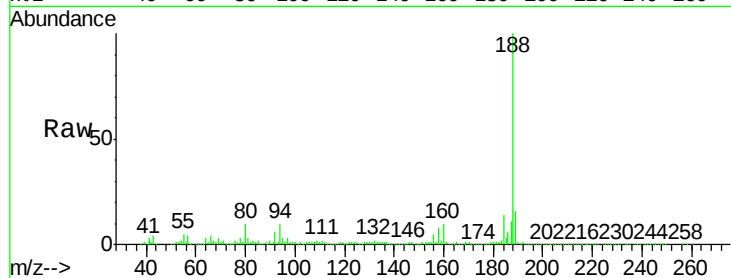




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.19 min Scan# 1547  
Delta R.T. -0.02 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

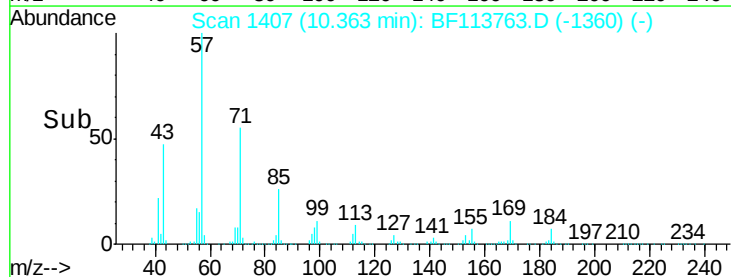
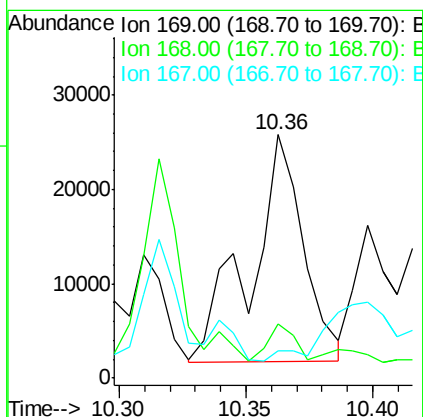
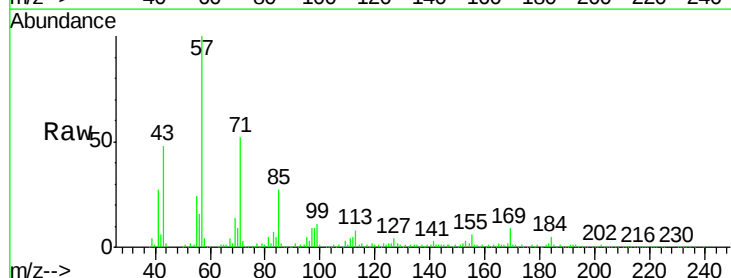
Instrument :  
BNA\_F  
ClientSampleId :

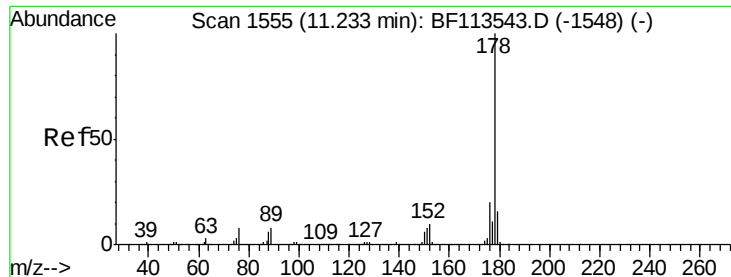
Tot Ion:188 Resp: 431803  
Ion Ratio Lower Upper  
188 100  
94 9.9 7.0 10.6  
80 10.1 7.7 11.5



#66  
n-Nitrosodiphenylamine  
Concen: 2.649 ng  
RT: 10.36 min Scan# 1407  
Delta R.T. -0.02 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

Tgt Ion:169 Resp: 35122  
Ion Ratio Lower Upper  
169 100  
168 22.1 53.7 80.5#  
167 11.3 29.5 44.3#

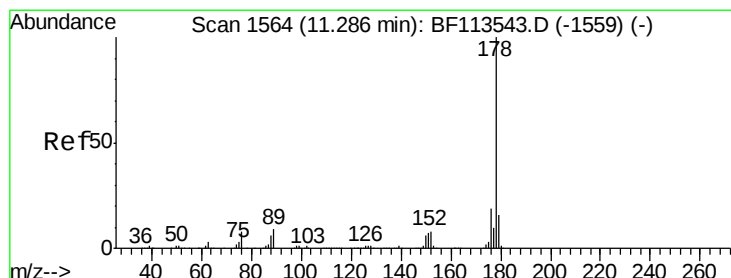
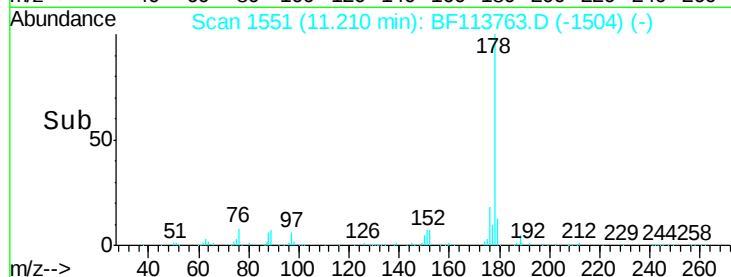
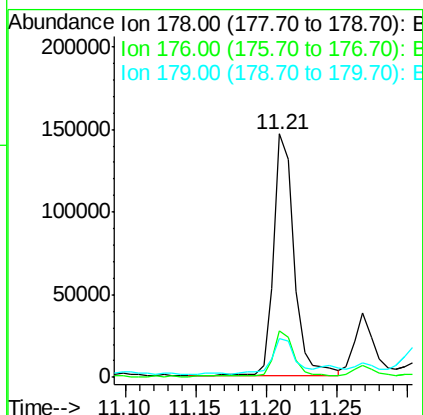
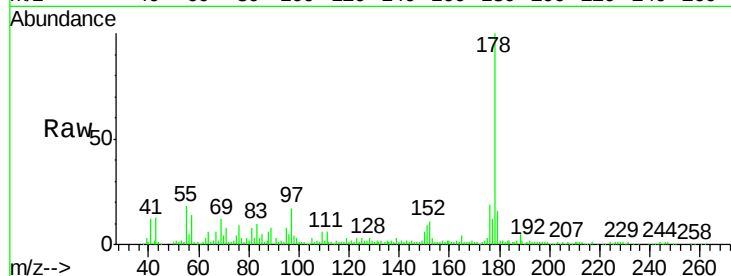




#71  
Phenanthrene  
Concen: 6.939 ng  
RT: 11.21 min Scan# 1551  
Delta R.T. -0.02 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

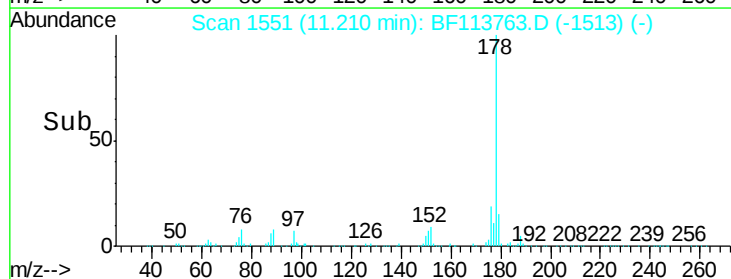
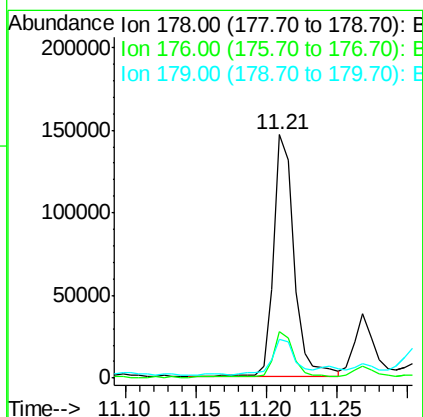
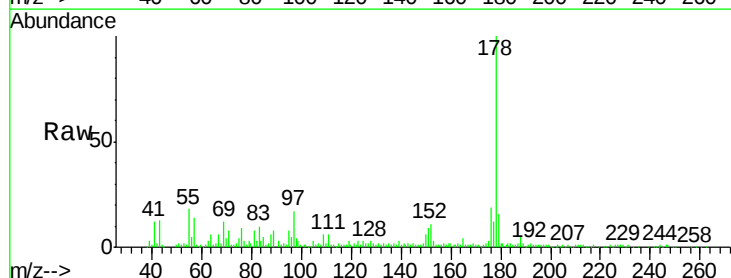
Instrument :  
BNA\_F  
ClientSampleId :

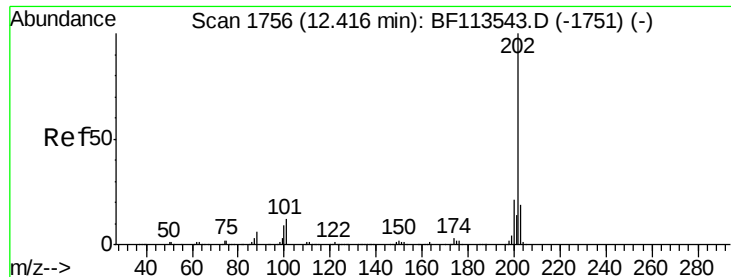
Tot Ion:178 Resp: 148890  
Ion Ratio Lower Upper  
178 100  
176 18.9 16.2 24.2  
179 16.1 12.7 19.1



#72  
Anthracene  
Concen: 6.820 ng  
RT: 11.21 min Scan# 1551  
Delta R.T. -0.08 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

Tgt Ion:178 Resp: 148890  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.4 23.2  
179 16.1 12.8 19.2





#75

Fluoranthene

Concen: 11.444 ng

RT: 12.40 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF113763.D

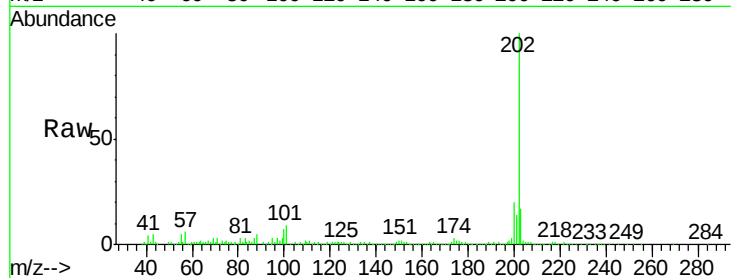
Acq: 15 Apr 2019 15:12

Instrument :

BNA\_F

ClientSampleId :

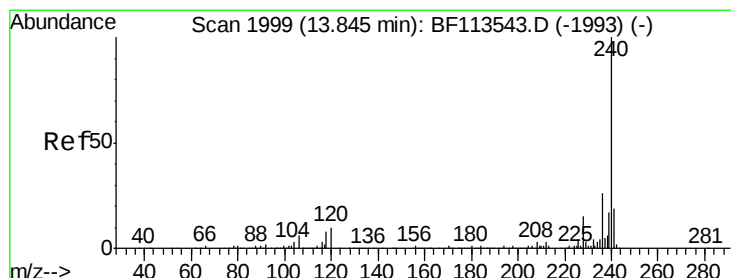
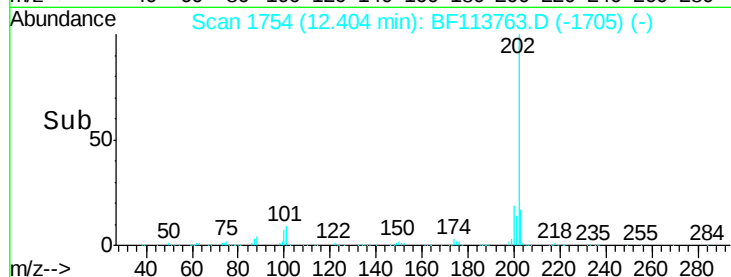
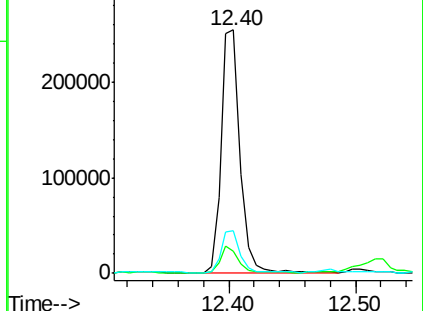
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 263116 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 9.3   | 0.0   | 31.4   |
| 203      | 17.5  | 0.0   | 38.0   |



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

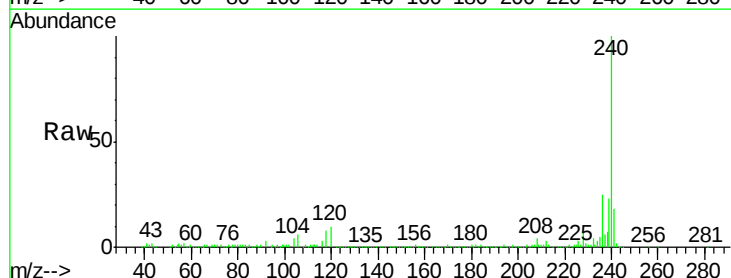
RT: 13.83 min Scan# 1996

Delta R.T. -0.02 min

Lab File: BF113763.D

Acq: 15 Apr 2019 15:12

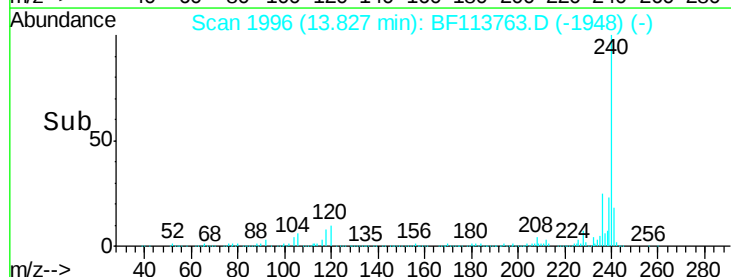
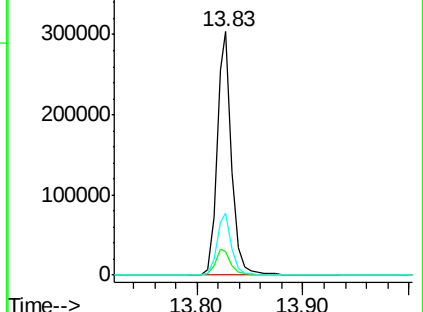
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 293390 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 9.6   | 8.8   | 13.2   |
| 236      | 25.4  | 20.9  | 31.3   |

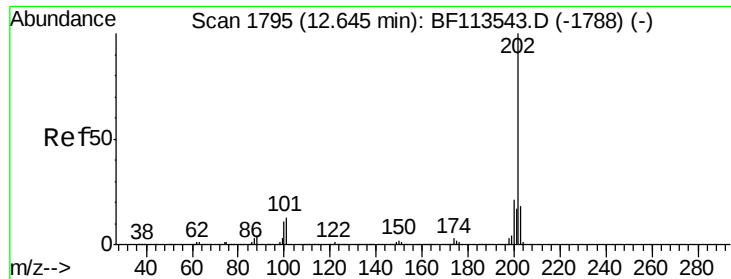


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

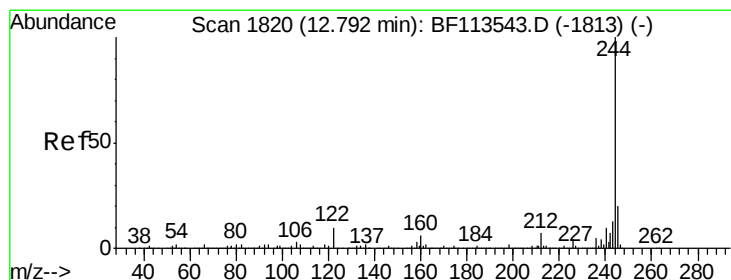
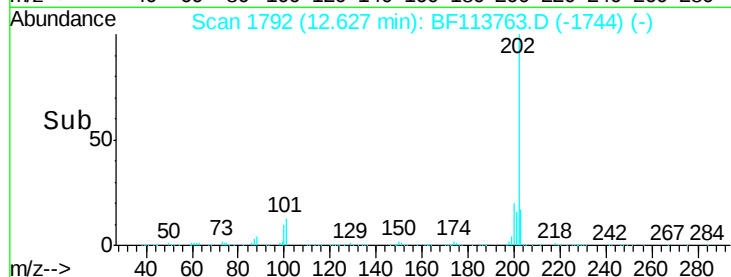
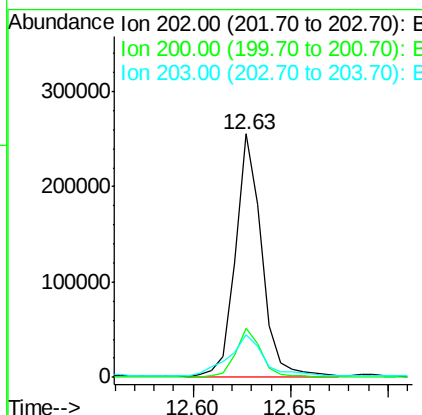
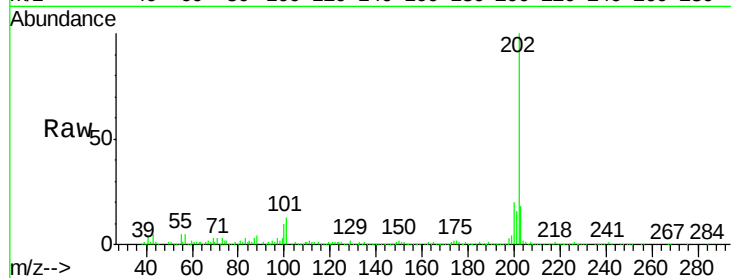




#78  
Pvrene  
Concen: 10.594 ng  
RT: 12.63 min Scan# 1792  
Delta R.T. -0.02 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

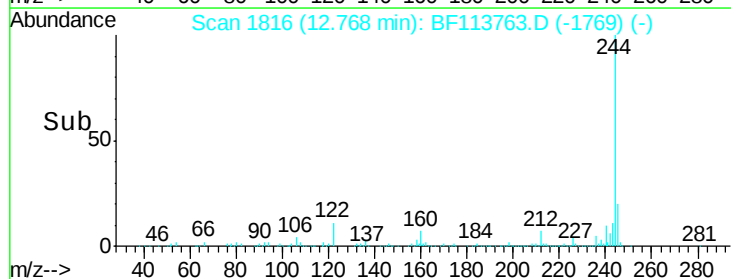
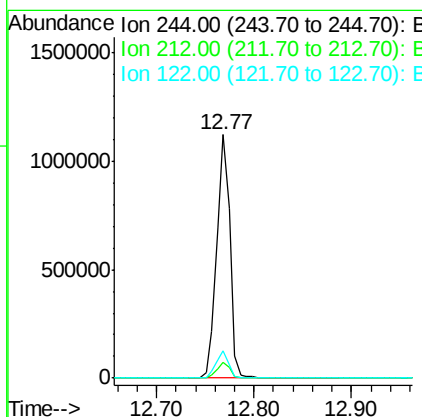
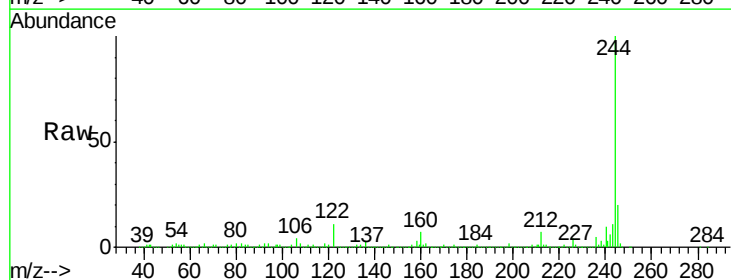
Instrument :  
BNA\_F  
ClientSampleId :

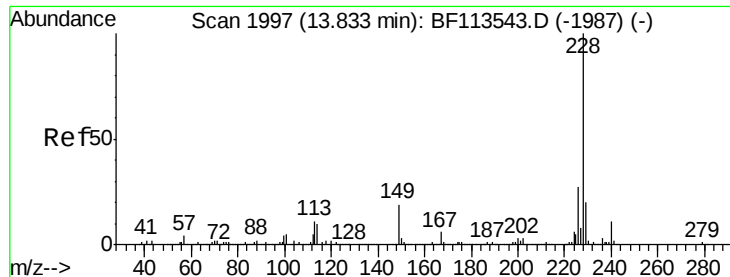
Tot Ion:202 Resp: 236500  
Ion Ratio Lower Upper  
202 100  
200 20.1 16.8 25.2  
203 17.7 14.4 21.6



#79  
Terphenyl-d14  
Concen: 73.323 ng  
RT: 12.77 min Scan# 1816  
Delta R.T. -0.02 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

Tgt Ion:244 Resp: 1056584  
Ion Ratio Lower Upper  
244 100  
212 6.6 5.5 8.3  
122 11.0 8.6 13.0





#81

Benzo(a)anthracene

Concen: 6.570 ng

RT: 13.82 min Scan# 1994

Delta R.T. -0.02 min

Lab File: BF113763.D

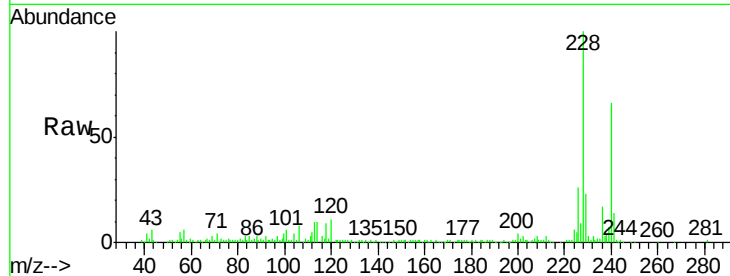
Acq: 15 Apr 2019 15:12

Instrument :

BNA\_F

ClientSampleId :

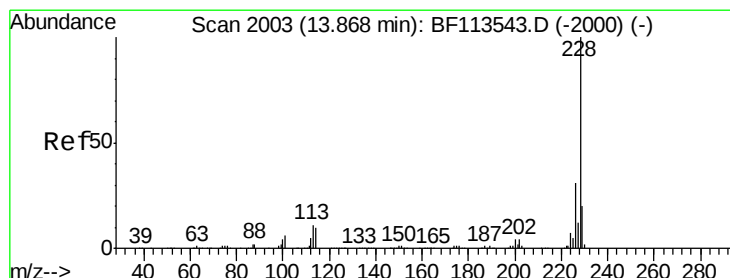
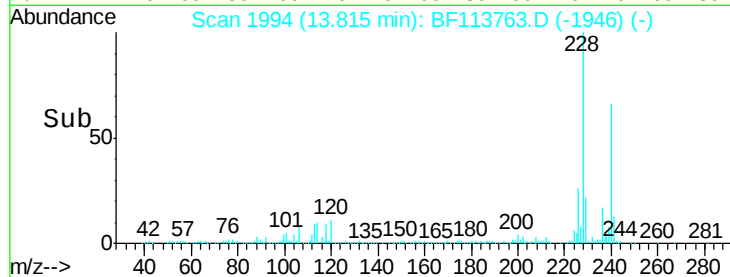
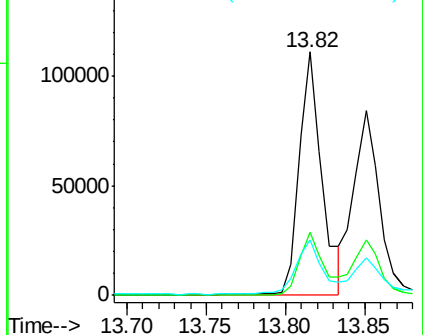
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:228 | Resp: | 111188      |
| Ion         | Ratio | Lower Upper |
| 228         | 100   |             |
| 226         | 25.9  | 21.8 32.8   |
| 229         | 22.8  | 16.2 24.4   |



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: 5.478 ng

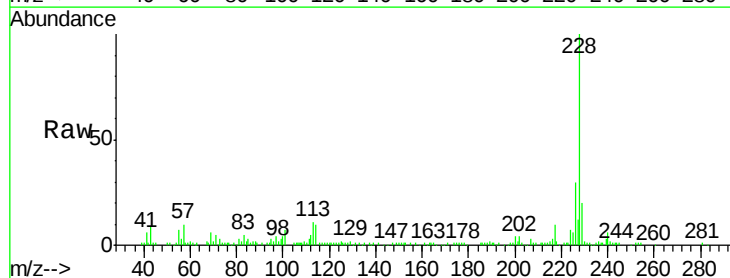
RT: 13.85 min Scan# 2000

Delta R.T. -0.02 min

Lab File: BF113763.D

Acq: 15 Apr 2019 15:12

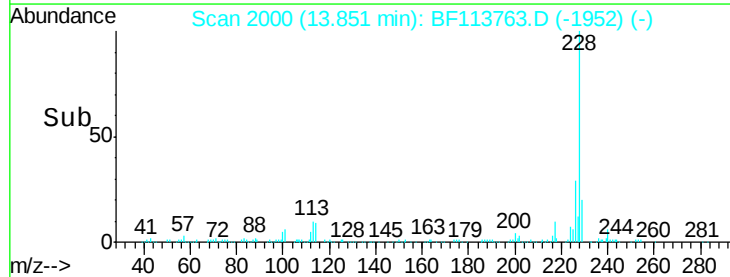
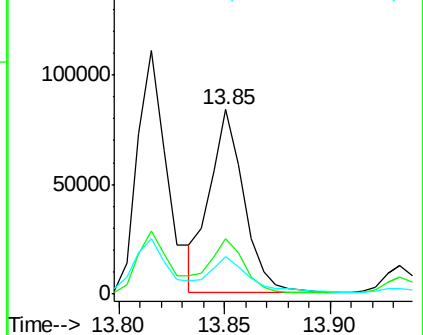
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:228 | Resp: | 93986       |
| Ion         | Ratio | Lower Upper |
| 228         | 100   |             |
| 226         | 29.9  | 24.3 36.5   |
| 229         | 20.5  | 16.3 24.5   |

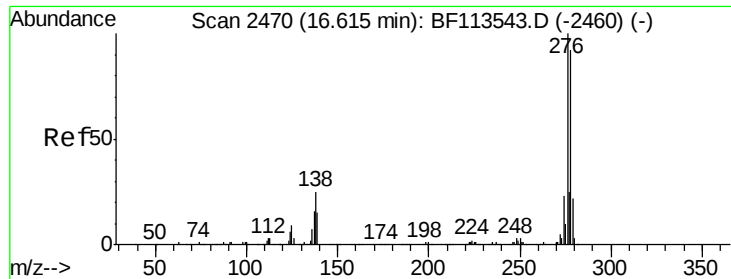


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

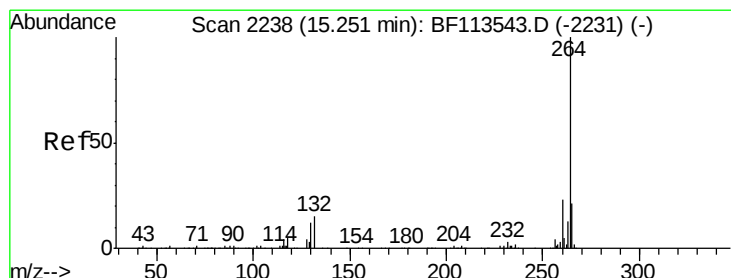
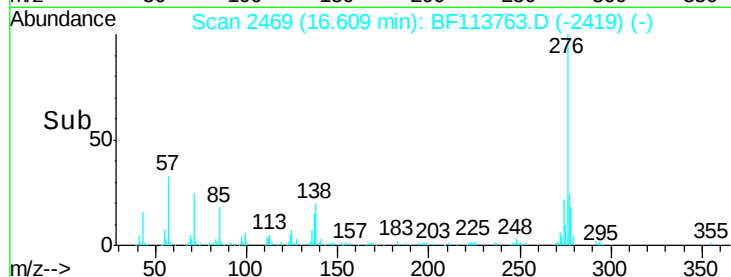
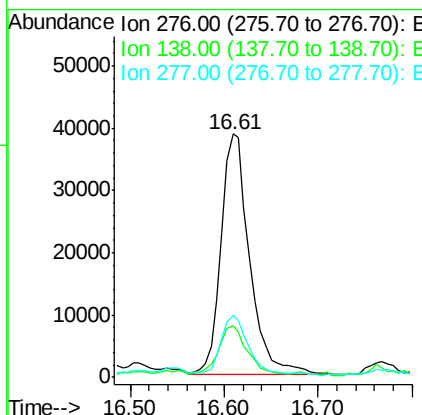
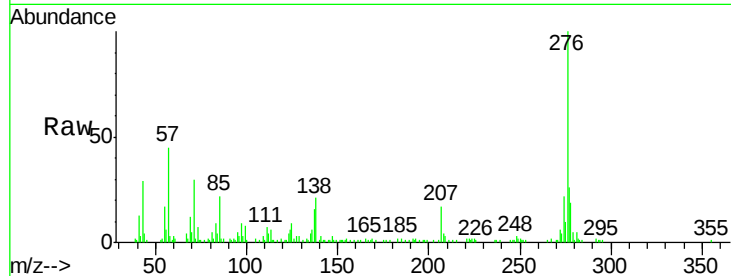




#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 5.218 ng  
 RT: 16.61 min Scan# 2469  
 Delta R.T. -0.01 min  
 Lab File: BF113763.D  
 Acq: 15 Apr 2019 15:12

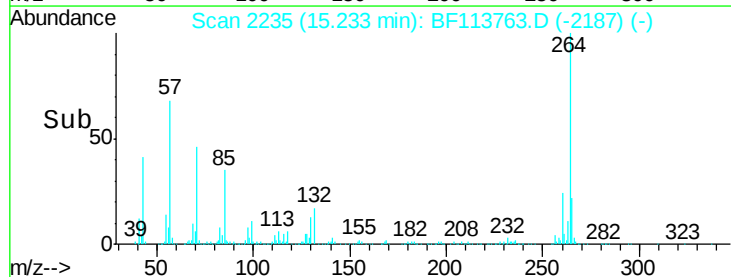
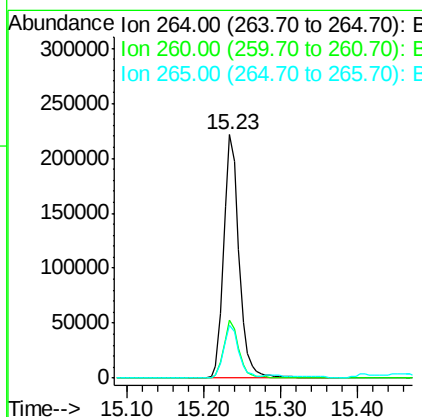
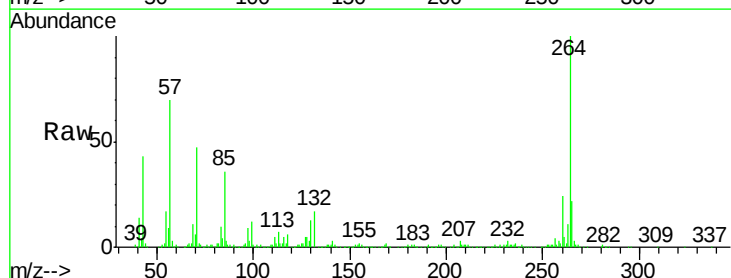
Instrument :  
 BNA\_F  
 ClientSampled :

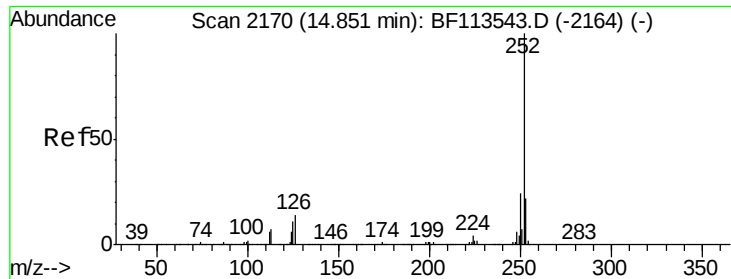
Tot Ion:276 Resp: 82651  
 Ion Ratio Lower Upper  
 276 100  
 138 19.7 18.1 27.1  
 277 22.0 20.2 30.4



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.23 min Scan# 2235  
 Delta R.T. -0.02 min  
 Lab File: BF113763.D  
 Acq: 15 Apr 2019 15:12

Tgt Ion:264 Resp: 308923  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 19.1 28.7  
 265 21.8 17.1 25.7

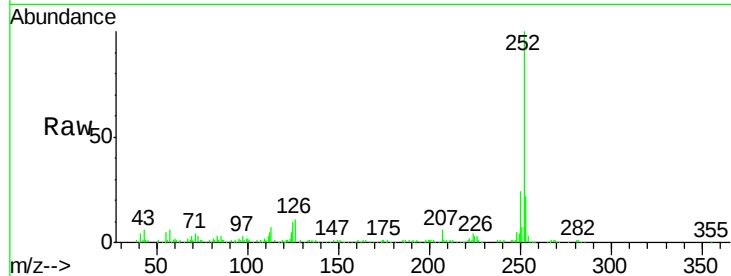




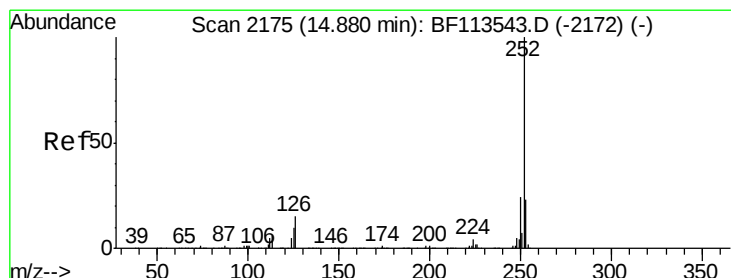
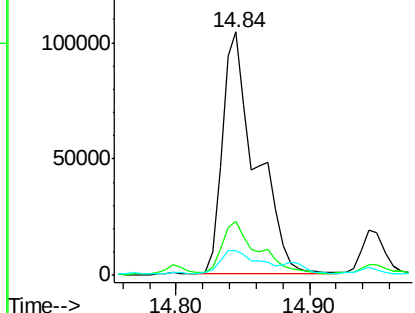
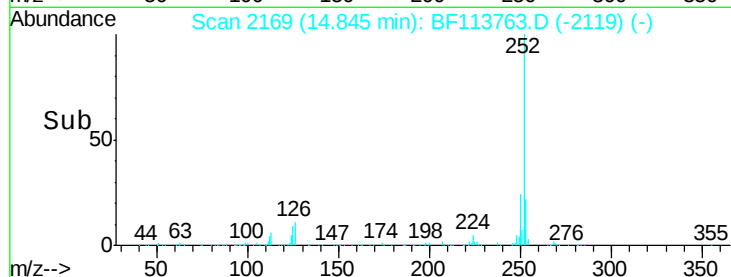
#88  
Benzo(b)fluoranthene  
Concen: 9.625 ng  
RT: 14.84 min Scan# 2169  
Delta R.T. -0.01 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 18.0  | 27.0  |
| 125     | 9.9   | 7.6   | 11.4  |

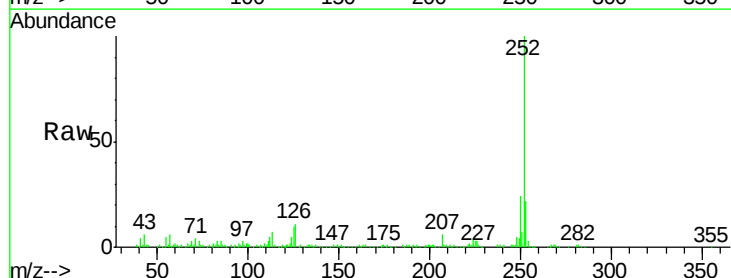


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

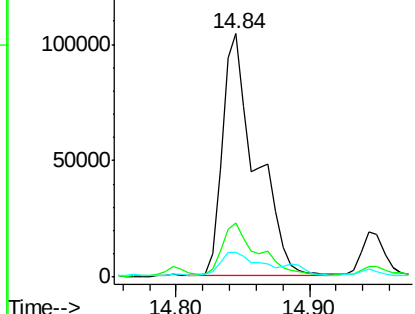
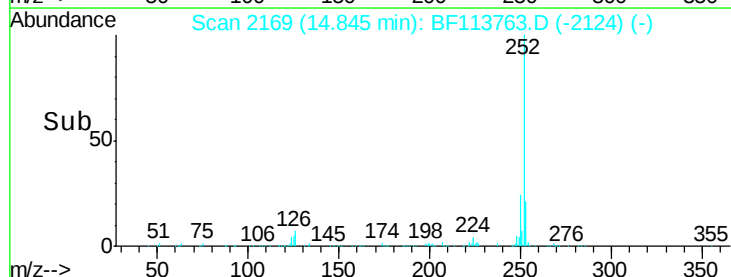


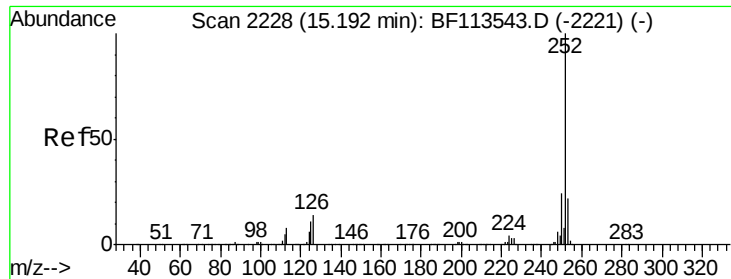
#89  
Benzo(k)fluoranthene  
Concen: 10.725 ng  
RT: 14.84 min Scan# 2169  
Delta R.T. -0.04 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 17.7  | 26.5  |
| 125     | 9.9   | 7.3   | 10.9  |



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

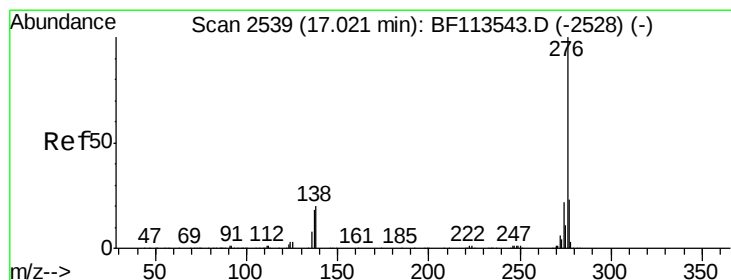
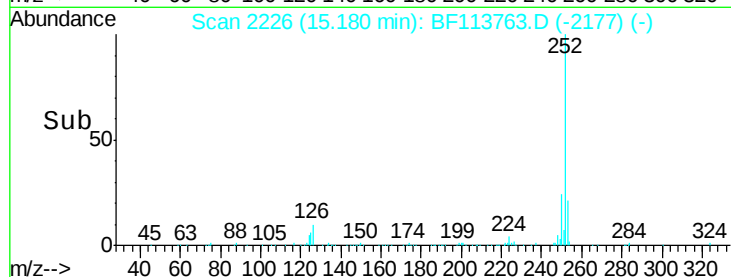
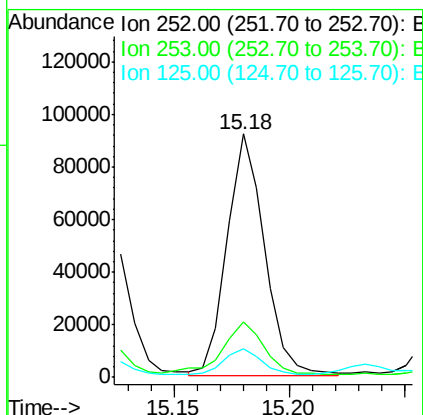
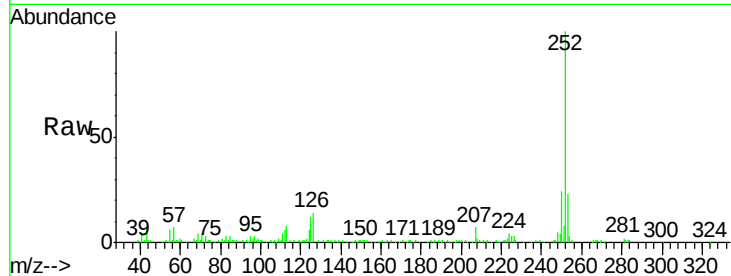




#90  
Benzo(a)pyrene  
Concen: 6.236 ng  
RT: 15.18 min Scan# 2226  
Delta R.T. -0.01 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 104785  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.9 26.9  
125 11.8 8.8 13.2



#92  
Benzo(g,h,i)perylene  
Concen: 5.438 ng  
RT: 17.02 min Scan# 2539  
Delta R.T. -0.00 min  
Lab File: BF113763.D  
Acq: 15 Apr 2019 15:12

Tgt Ion:276 Resp: 87212  
Ion Ratio Lower Upper  
276 100  
277 26.2 18.8 28.2  
138 20.3 15.6 23.4

