

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070617\  
 Data File : BF096545.D  
 Acq On : 6 Jul 2017 20:43  
 Operator : SJ/MA  
 Sample : I3972-04  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 07 01:24:18 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 05 13:27:10 2017  
 Response via : Initial Calibration

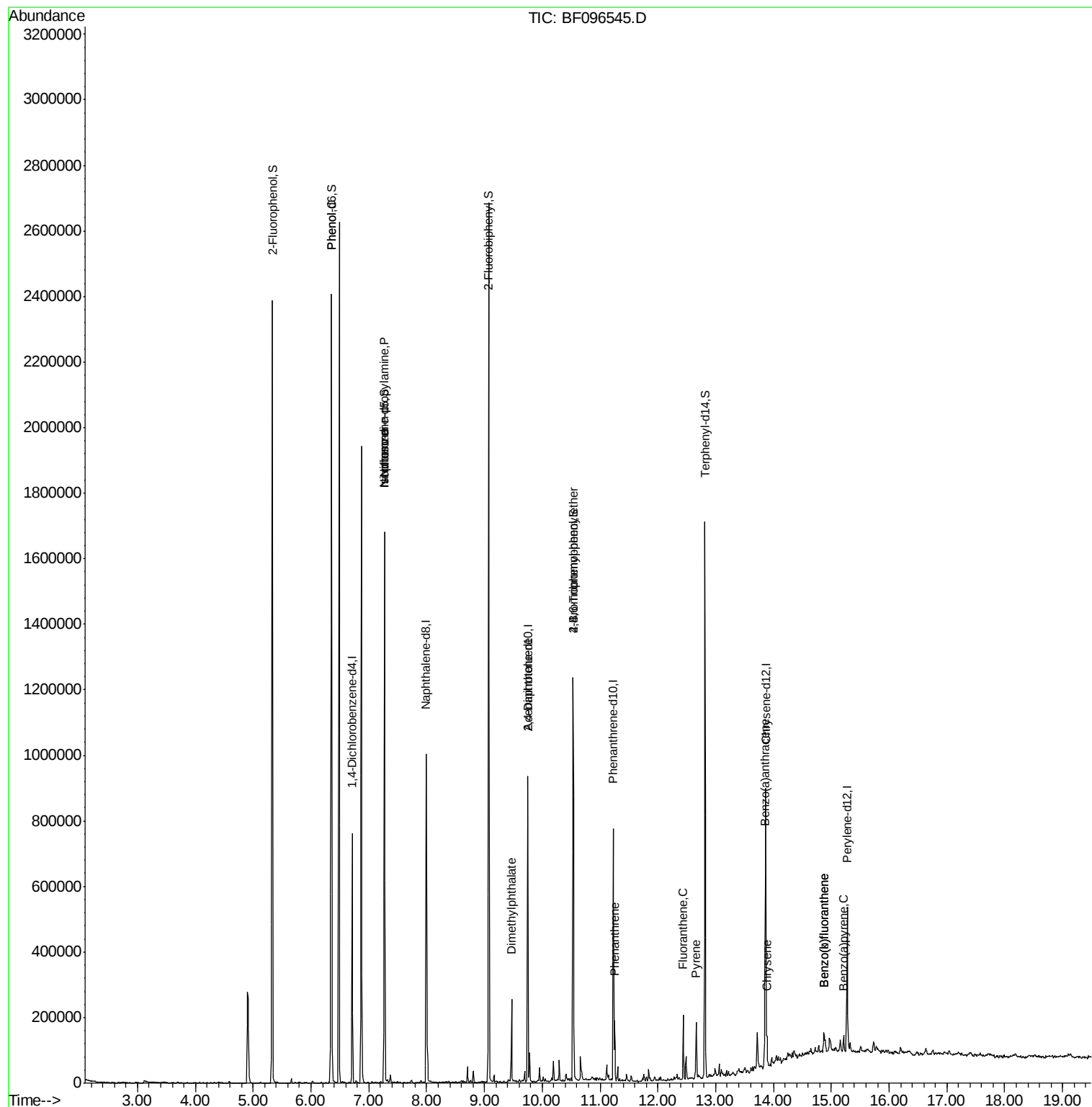
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 112367   | 20.00 | ng    | 0.00      |
| 21) Naphthalene-d8             | 8.00  | 136  | 480616   | 20.00 | ng    | 0.00      |
| 38) Acenaphthene-d10           | 9.75  | 164  | 179436   | 20.00 | ng    | 0.00      |
| 63) Phenanthrene-d10           | 11.23 | 188  | 258917   | 20.00 | ng    | 0.00      |
| 75) Chrysene-d12               | 13.86 | 240  | 244671   | 20.00 | ng    | 0.00      |
| 86) Perylene-d12               | 15.27 | 264  | 177343   | 20.00 | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 5) 2-Fluorophenol              | 5.33  | 112  | 722391   | 94.89 | ng    | 0.01      |
| 7) Phenol-d6                   | 6.36  | 99   | 863199   | 92.23 | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.27  | 82   | 485092   | 60.65 | ng    | 0.00      |
| 41) 2,4,6-Tribromophenol       | 10.53 | 330  | 128969   | 92.01 | ng    | 0.00      |
| 44) 2-Fluorobiphenyl           | 9.07  | 172  | 796639   | 75.91 | ng    | 0.00      |
| 78) Terphenyl-d14              | 12.82 | 244  | 487660   | 42.59 | ng    | 0.00      |
| Target Compounds               |       |      |          |       |       |           |
| 10) Phenol                     | 6.36  | 94   | 30919    | 2.90  | ng    | Qvalue 92 |
| 19) n-Nitroso-di-n-propylamine | 7.27  | 70   | 63679    | 11.42 | ng    | # 87      |
| 25) Isophorone                 | 7.27  | 82   | 480058   | 30.96 | ng    | # 67      |
| 49) Dimethylphthalate          | 9.47  | 163  | 106746   | 7.97  | ng    | 97        |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 22536    | 6.01  | ng    | # 34      |
| 66) 4-Bromophenyl-phenylether  | 10.53 | 248  | 7866     | 3.12  | ng    | # 1       |
| 70) Phenanthrene               | 11.25 | 178  | 59654    | 4.26  | ng    | 94        |
| 74) Fluoranthene               | 12.44 | 202  | 70743    | 5.16  | ng    | 98        |
| 77) Pyrene                     | 12.66 | 202  | 67228    | 3.42  | ng    | 100       |
| 80) Benzo(a)anthracene         | 13.85 | 228  | 34001    | 2.40  | ng    | 95        |
| 82) Chrysene                   | 13.89 | 228  | 30441    | 2.05  | ng    | 97        |
| 87) Benzo(b)fluoranthene       | 14.87 | 252  | 40283    | 3.63  | ng    | # 89      |
| 88) Benzo(k)fluoranthene       | 14.87 | 252  | 40283    | 4.05  | ng    | # 93      |
| 89) Benzo(a)pyrene             | 15.22 | 252  | 21537    | 2.17  | ng    | # 94      |

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

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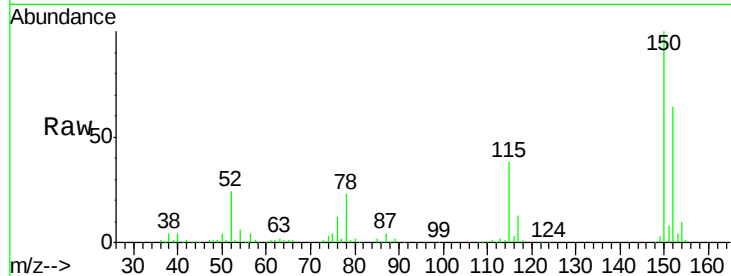


#1

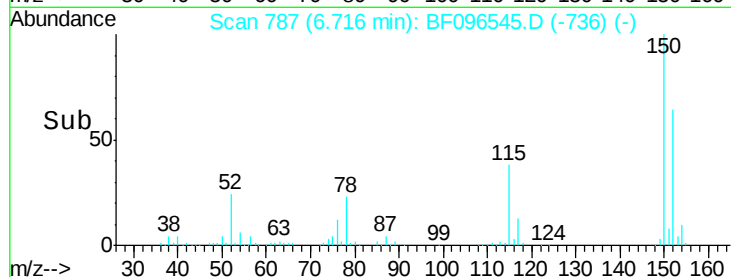
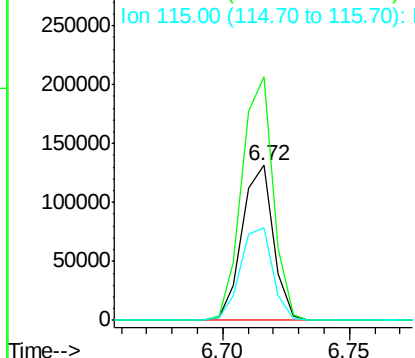
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.72 min Scan# 787  
Delta R.T. 0.00 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 112367  
Ion Ratio Lower Upper  
152 100  
150 157.1 126.2 189.2  
115 60.1 52.2 78.2



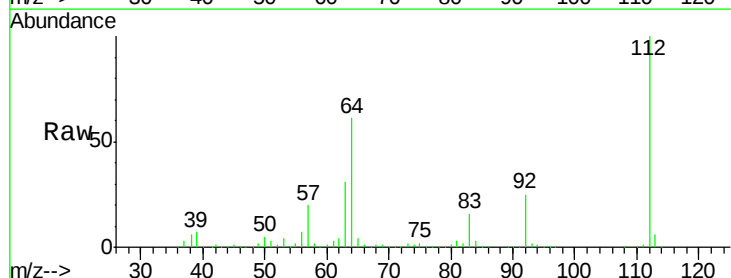
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



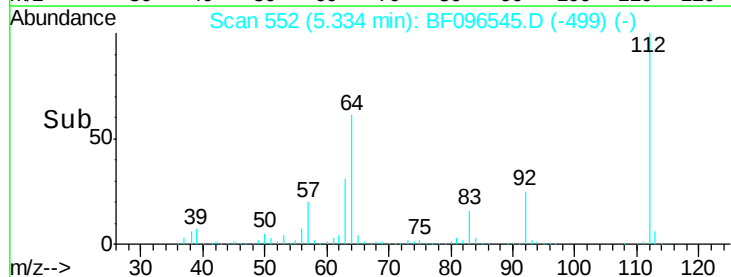
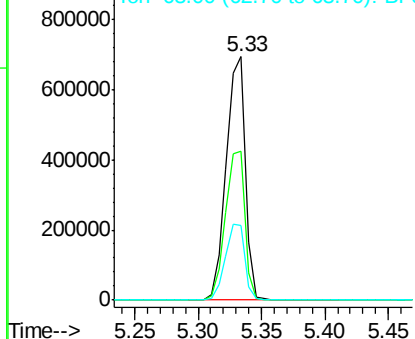
#5

2-Fluorophenol  
Concen: 94.89 ng  
RT: 5.33 min Scan# 552  
Delta R.T. 0.01 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Tgt Ion:112 Resp: 722391  
Ion Ratio Lower Upper  
112 100  
64 61.3 46.0 69.0  
63 30.8 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0

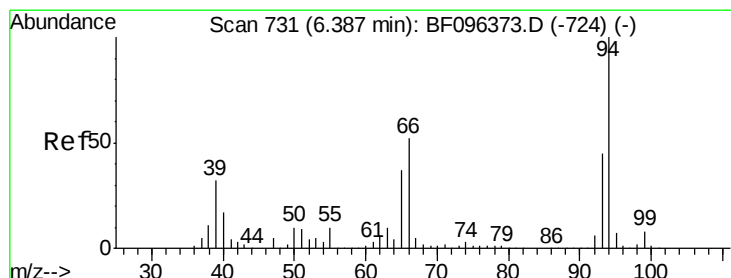
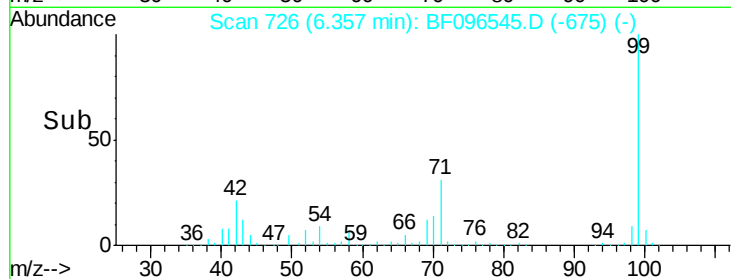
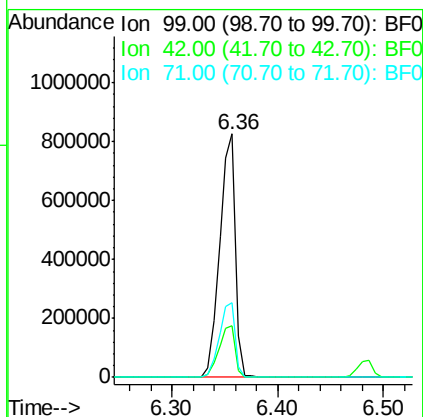
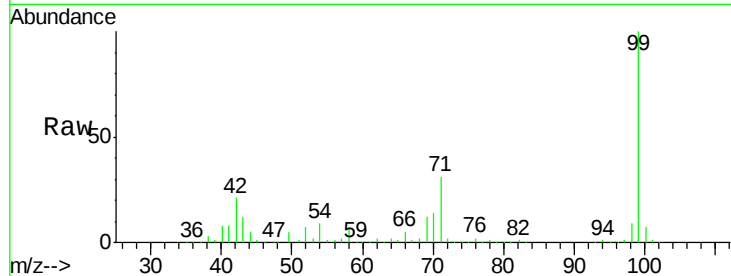




#7  
Phenol-d6  
Concen: 92.23 ng  
RT: 6.36 min Scan# 726  
Delta R.T. 0.00 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

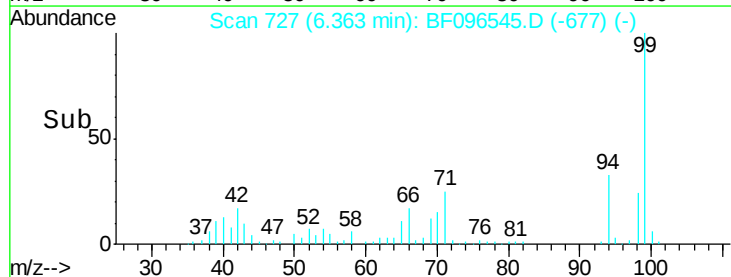
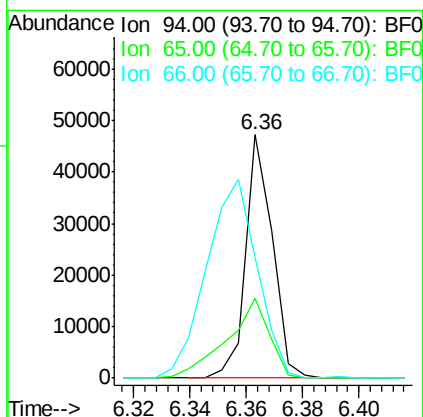
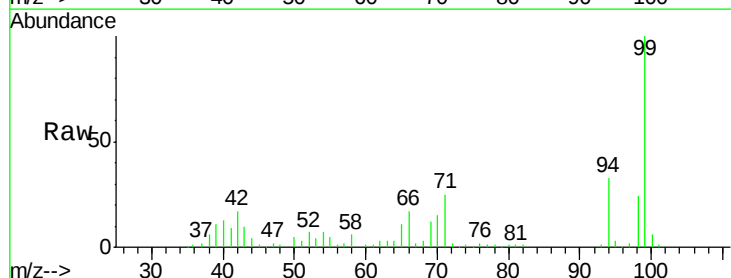
Instrument :  
BNA\_F  
ClientSampled :

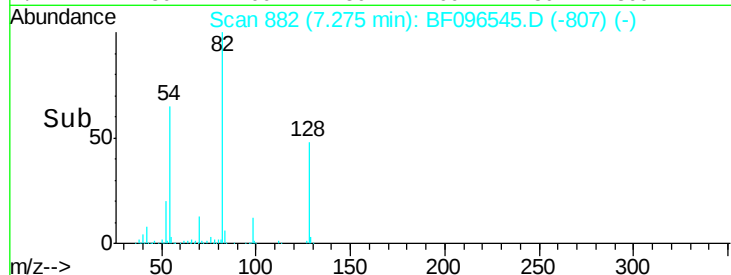
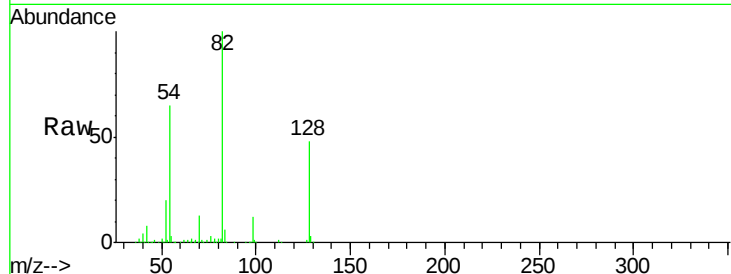
Tot Ion: 99 Resp: 863199  
Ion Ratio Lower Upper  
99 100  
42 21.1 13.5 20.3#  
71 30.7 24.5 36.7



#10  
Phenol  
Concen: 2.90 ng  
RT: 6.36 min Scan# 727  
Delta R.T. -0.01 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Tgt Ion: 94 Resp: 30919  
Ion Ratio Lower Upper  
94 100  
65 32.8 9.9 49.9  
66 49.8 23.1 63.1

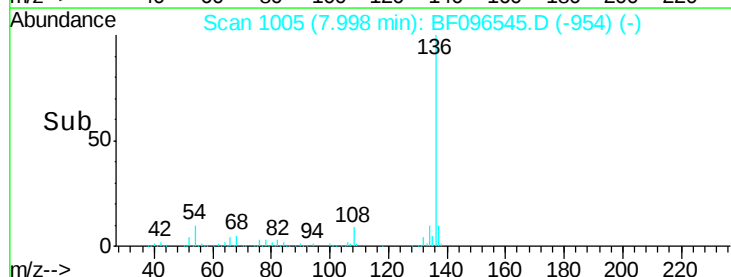
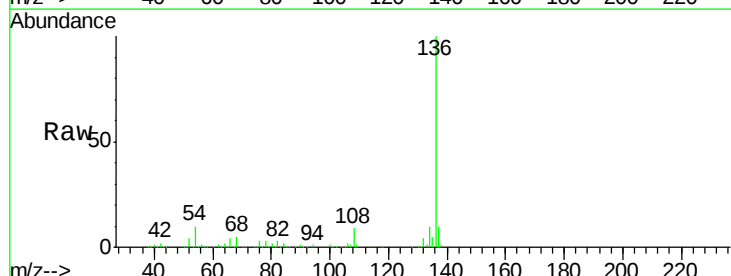
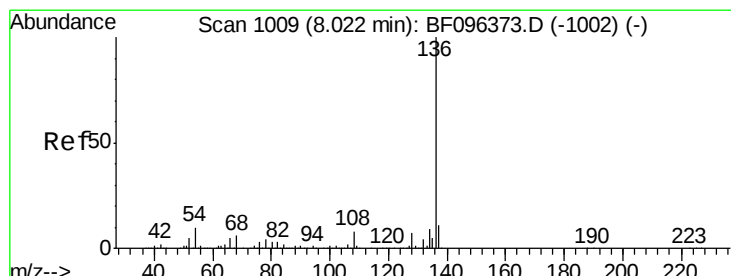
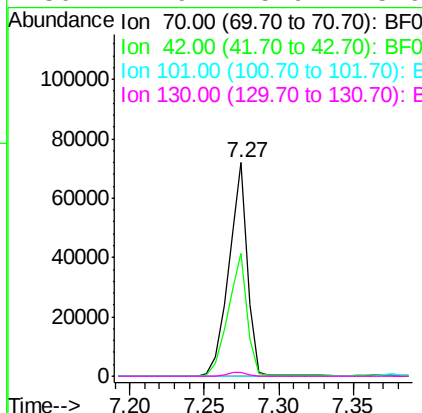




#19  
n-Nitroso-di-n-propylamine  
Concen: 11.42 ng  
RT: 7.27 min Scan# 882  
Delta R.T. 0.14 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

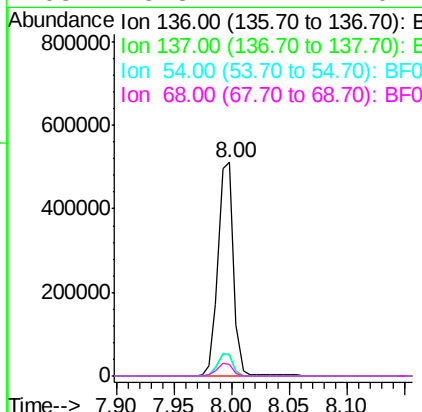
Instrument :  
BNA\_F  
ClientSampleId :

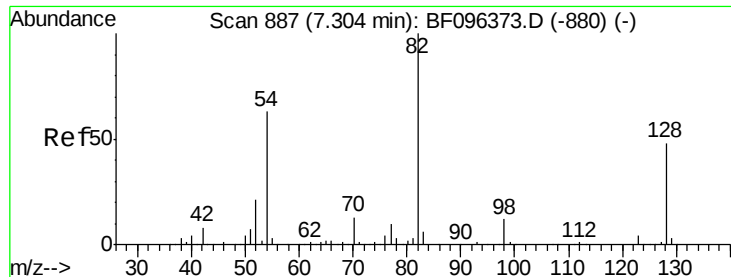
Tot Ion: 70 Resp: 63679  
Ion Ratio Lower Upper  
70 100  
42 57.7 47.2 70.8  
101 0.0 7.2 10.8#  
130 1.9 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 1005  
Delta R.T. 0.00 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Tgt Ion:136 Resp: 480616  
Ion Ratio Lower Upper  
136 100  
137 10.4 8.5 12.7  
54 9.7 4.9 7.3#  
68 5.3 4.1 6.1

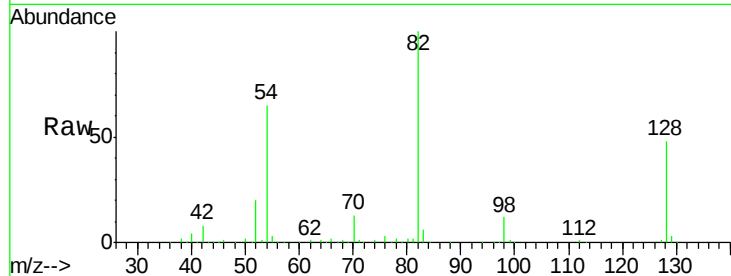




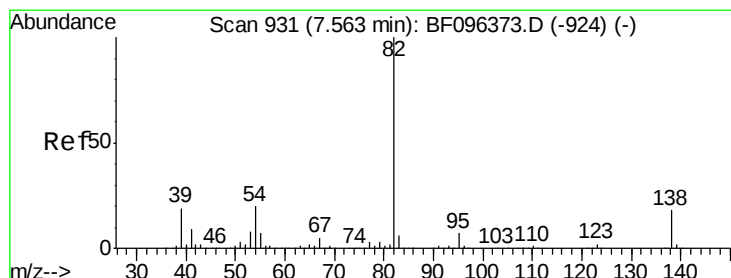
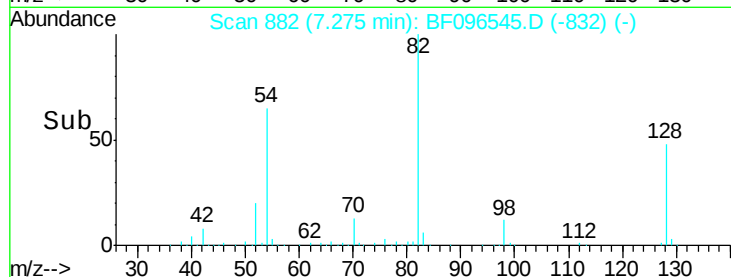
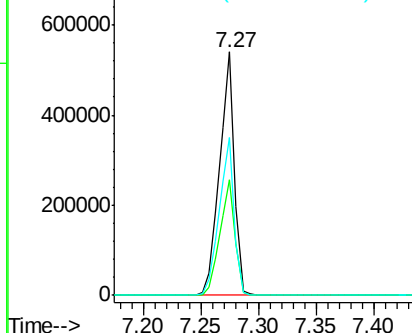
#23  
Nitrobenzene-d5  
Concen: 60.65 ng  
RT: 7.27 min Scan# 882  
Delta R.T. -0.01 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 485092  
Ion Ratio Lower Upper  
82 100  
128 47.5 34.0 51.0  
54 65.0 42.2 63.2#

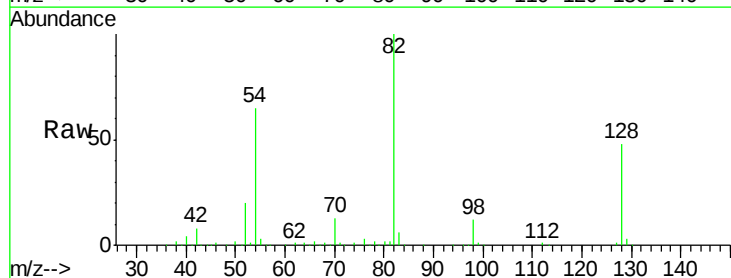


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): BF0  
Ion 54.00 (53.70 to 54.70): BF0

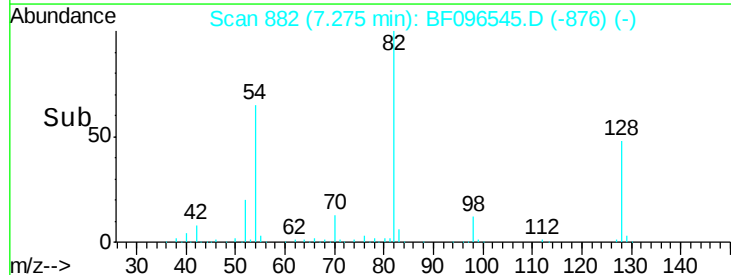
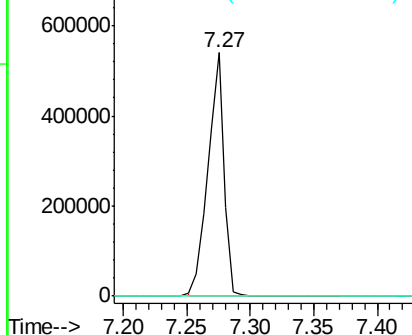


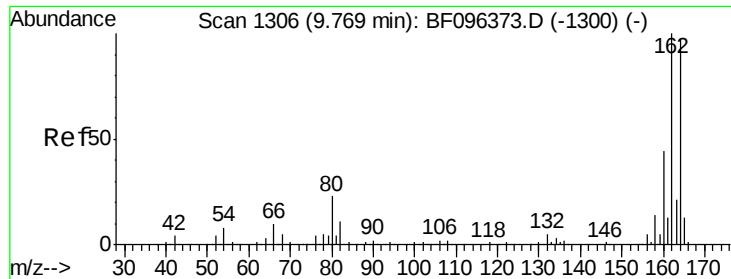
#25  
Isophorone  
Concen: 30.96 ng  
RT: 7.27 min Scan# 882  
Delta R.T. -0.26 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Tgt Ion: 82 Resp: 480058  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.3 7.9#  
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0

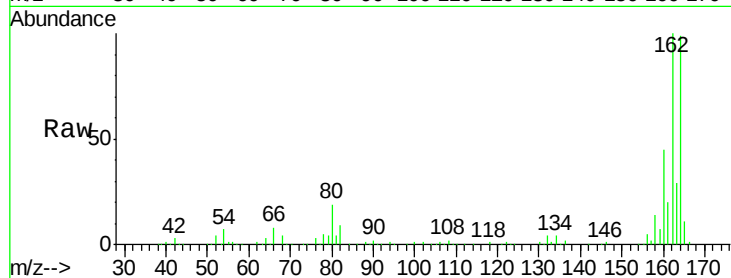




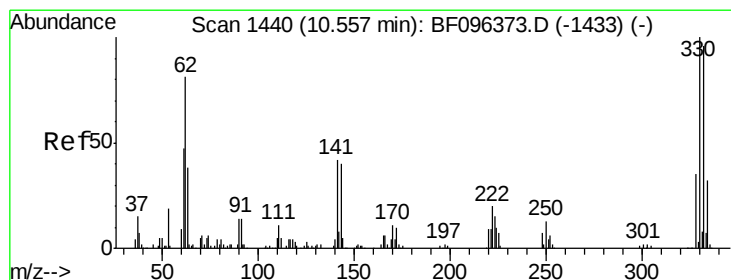
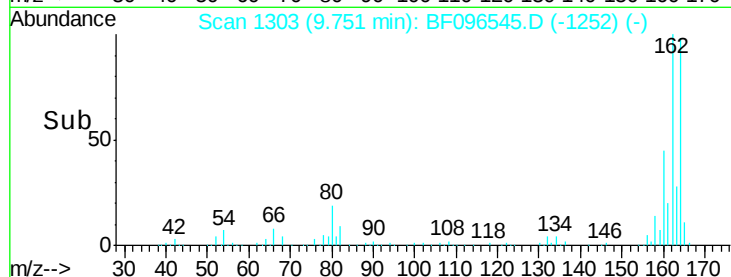
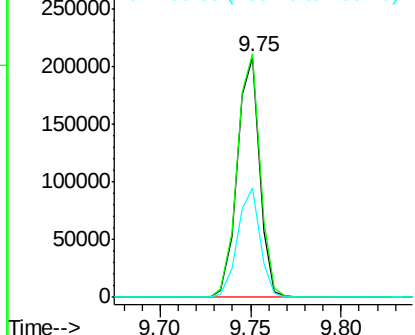
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.75 min Scan# 1303  
Delta R.T. 0.00 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:164 Resp: 179436  
Ion Ratio Lower Upper  
164 100  
162 101.4 82.6 123.8  
160 45.4 36.2 54.2

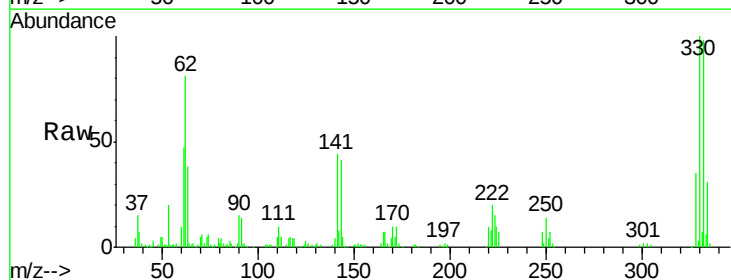


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

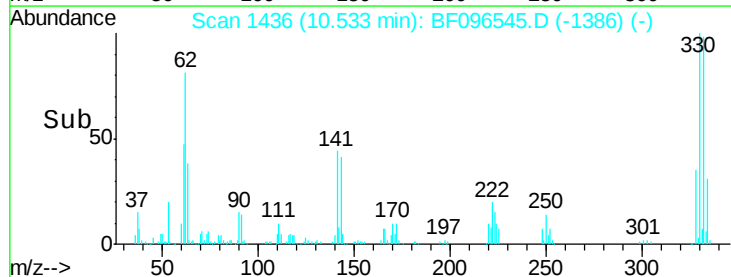
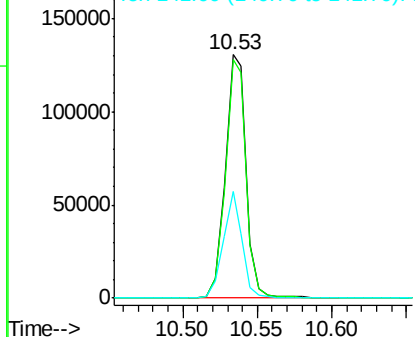


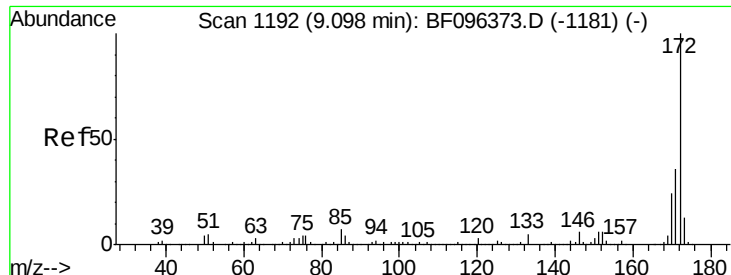
#41  
2,4,6-Tribromophenol  
Concen: 92.01 ng  
RT: 10.53 min Scan# 1436  
Delta R.T. -0.01 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Tgt Ion:330 Resp: 128969  
Ion Ratio Lower Upper  
330 100  
332 97.6 76.6 115.0  
141 39.4 31.4 47.2



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

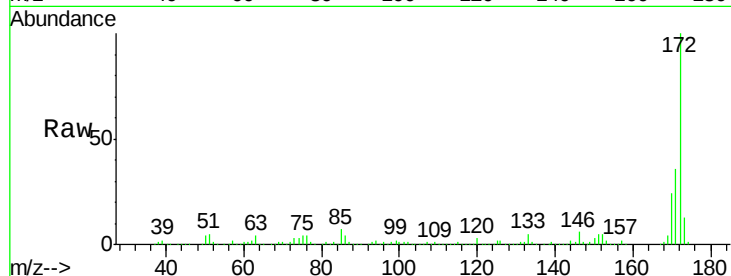




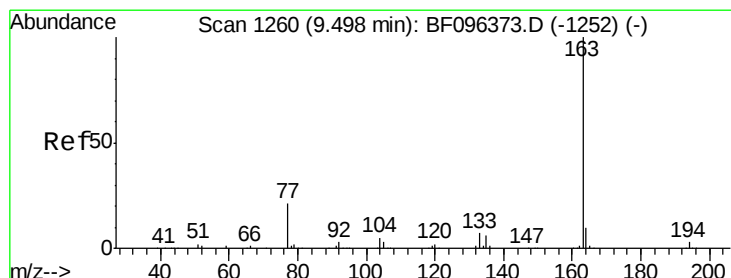
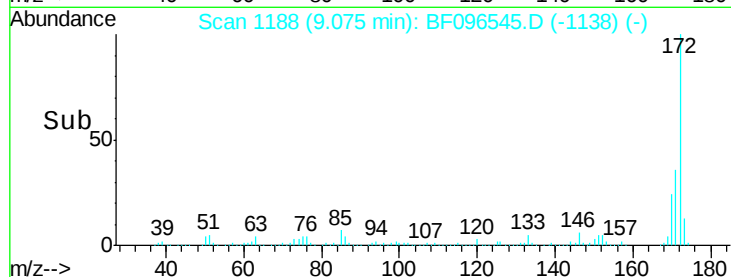
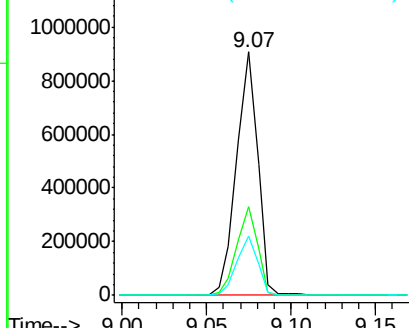
#44  
2-Fluorobiphenyl  
Concen: 75.91 ng  
RT: 9.07 min Scan# 1188  
Delta R.T. -0.01 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 796639  
Ion Ratio Lower Upper  
172 100  
171 36.3 29.6 44.4  
170 24.1 19.8 29.8

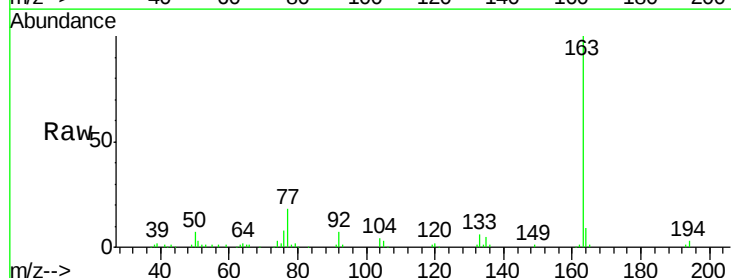


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

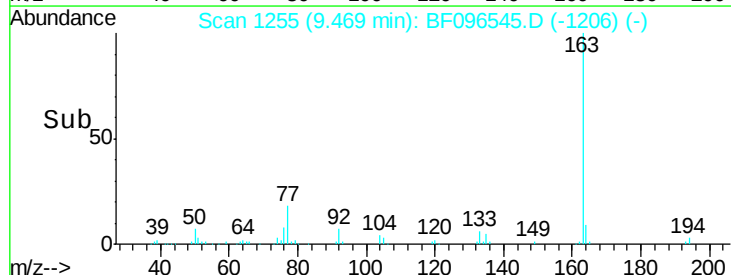
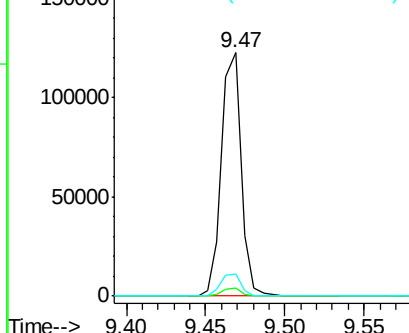


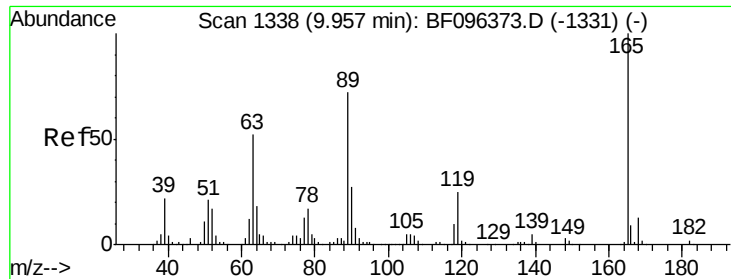
#49  
Dimethylphthalate  
Concen: 7.97 ng  
RT: 9.47 min Scan# 1255  
Delta R.T. -0.01 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Tgt Ion:163 Resp: 106746  
Ion Ratio Lower Upper  
163 100  
194 3.1 2.6 4.0  
164 9.2 8.4 12.6



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

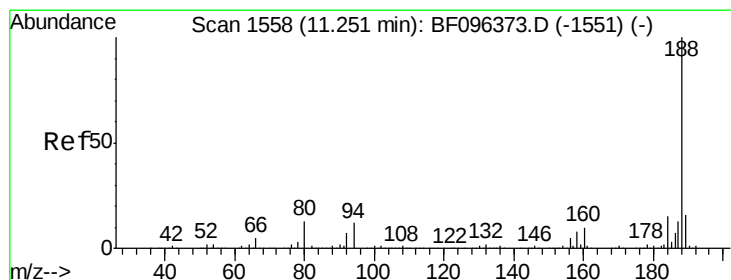
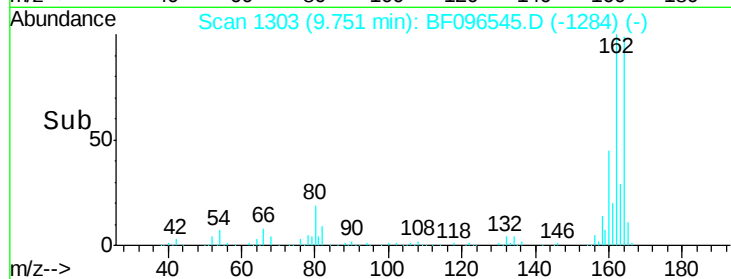
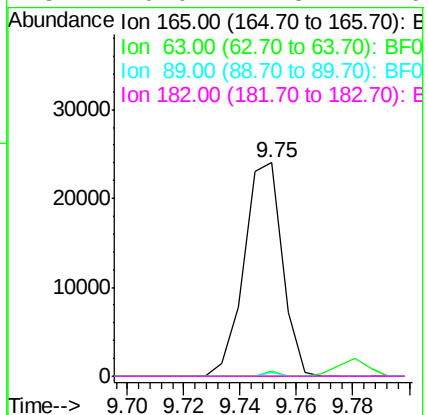
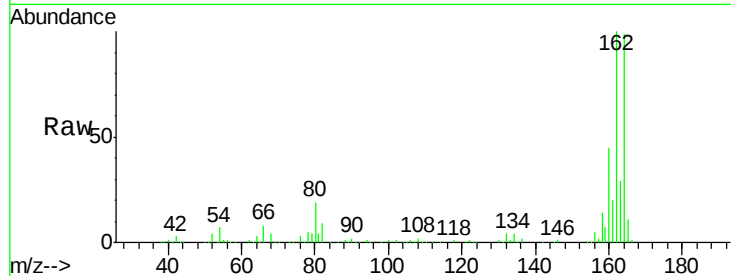




#56  
 2,4-Dinitrotoluene  
 Concen: 6.01 ng  
 RT: 9.75 min Scan# 1303  
 Delta R.T. -0.19 min  
 Lab File: BF096545.D  
 Acq: 6 Jul 2017 20:43

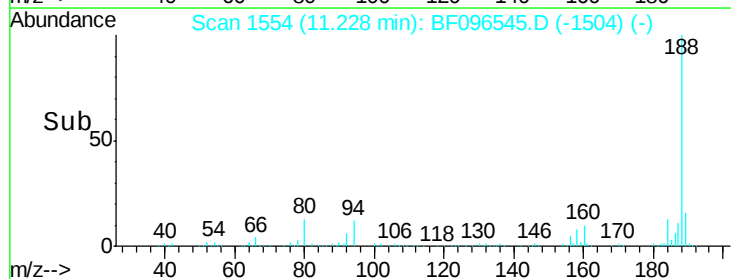
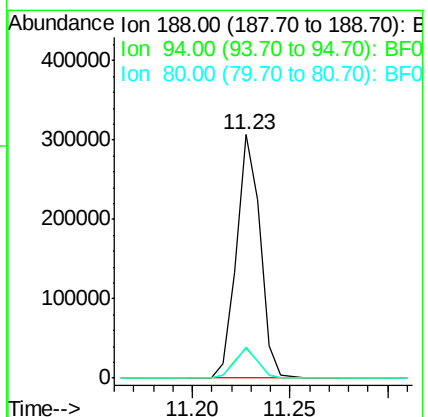
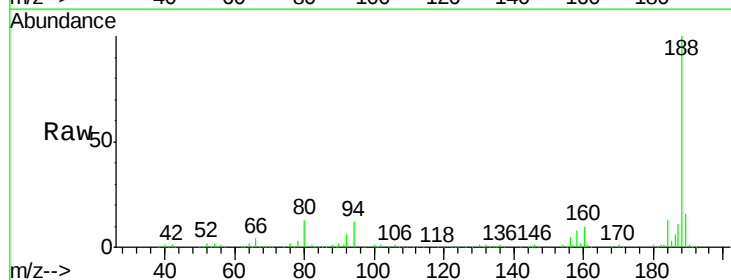
Instrument :  
 BNA\_F  
 ClientSampleId :

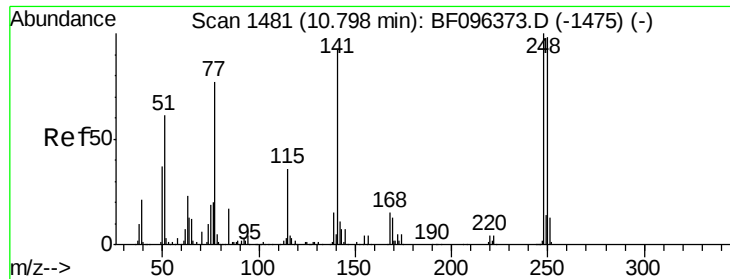
|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 22536      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 2.2   | 25.4 38.0# |
| 89          | 1.6   | 46.4 69.6# |
| 182         | 0.0   | 1.8 2.6#   |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.23 min Scan# 1554  
 Delta R.T. -0.01 min  
 Lab File: BF096545.D  
 Acq: 6 Jul 2017 20:43

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:188 | Resp: | 258917    |
| Ion Ratio   | Lower | Upper     |
| 188         | 100   |           |
| 94          | 12.1  | 9.4 14.2  |
| 80          | 12.5  | 10.2 15.2 |

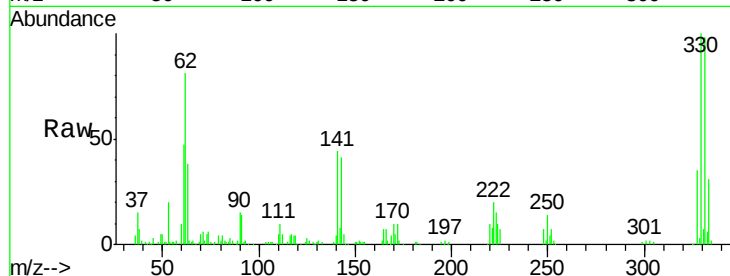




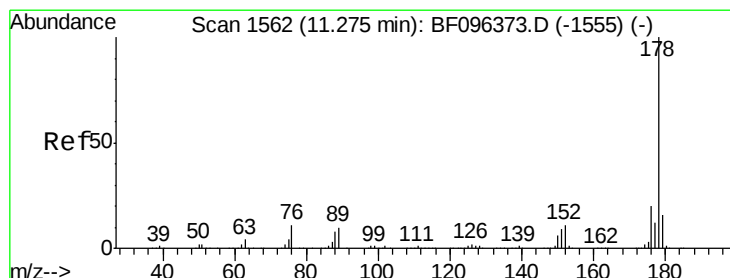
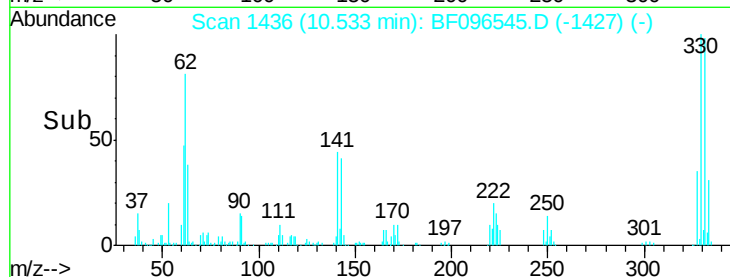
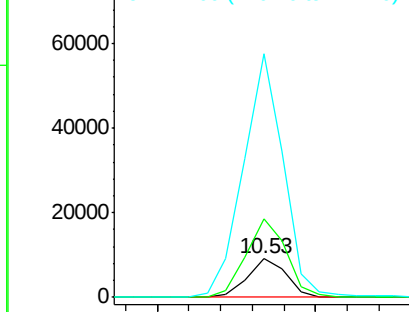
#66  
4-Bromophenyl-phenylether  
Concen: 3.12 ng  
RT: 10.53 min Scan# 1436  
Delta R.T. -0.25 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 7866  
Ion Ratio Lower Upper  
248 100  
250 204.9 76.8 115.2#  
141 630.8 68.6 103.0#

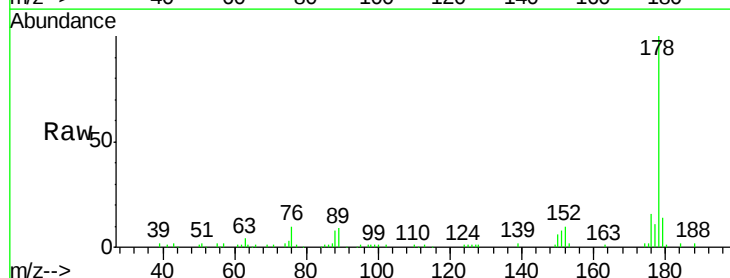


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

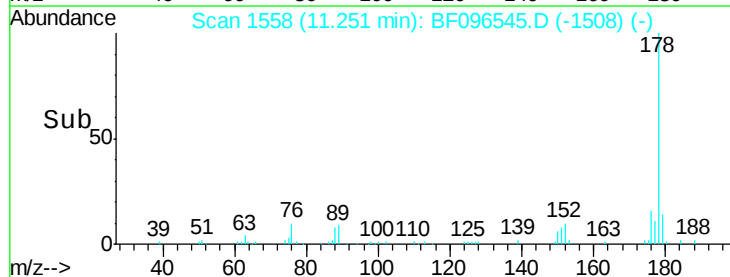
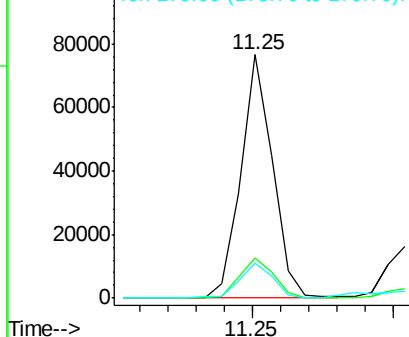


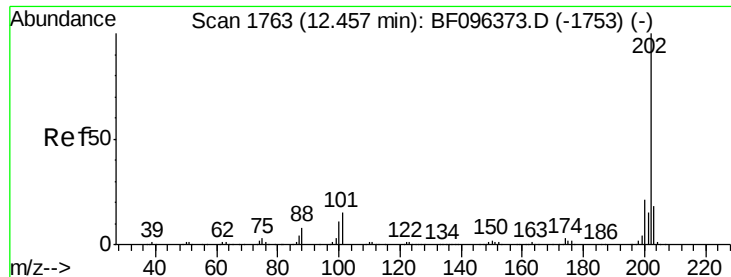
#70  
Phenanthrene  
Concen: 4.26 ng  
RT: 11.25 min Scan# 1558  
Delta R.T. -0.01 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Tgt Ion:178 Resp: 59654  
Ion Ratio Lower Upper  
178 100  
176 16.4 16.2 24.4  
179 14.3 12.6 19.0



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





#74

Fluoranthene

Concen: 5.16 ng

RT: 12.44 min Scan# 1760

Delta R.T. 0.00 min

Lab File: BF096545.D

Acq: 6 Jul 2017 20:43

Instrument :

BNA\_F

ClientSampleId :

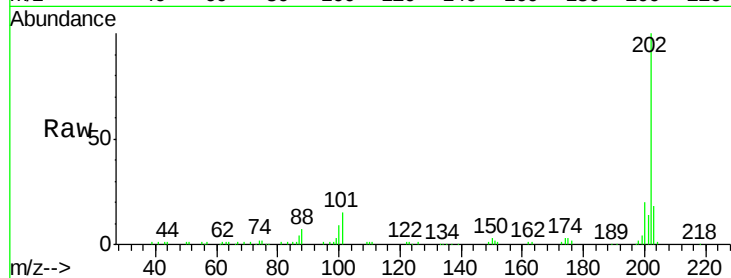
Tot Ion:202 Resp: 70743

Ion Ratio Lower Upper

202 100

101 14.9 0.0 33.2

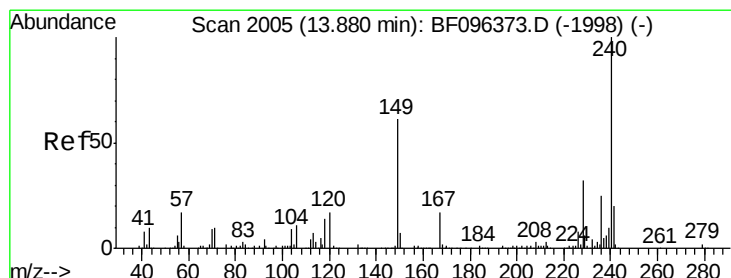
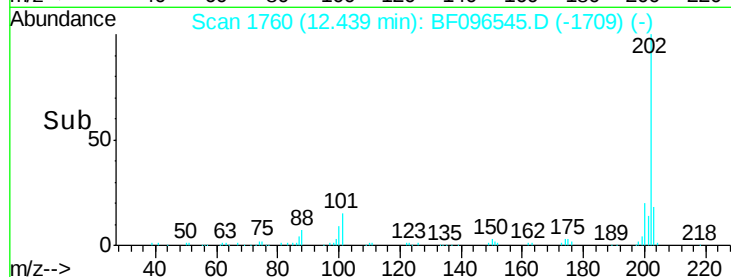
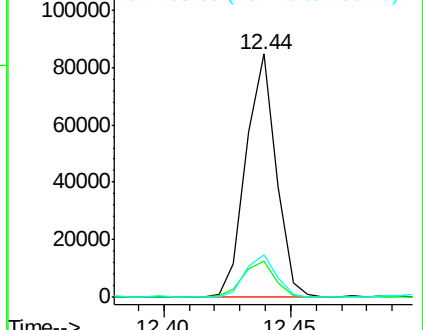
203 17.7 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF096545.D

Acq: 6 Jul 2017 20:43

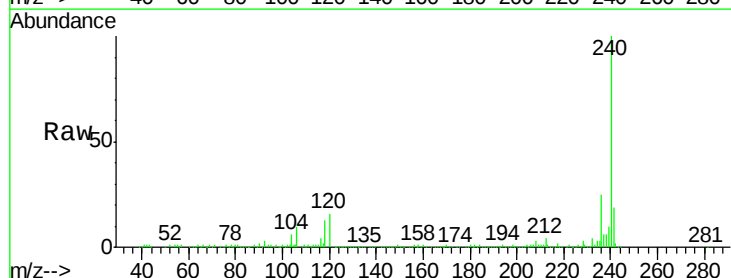
Tgt Ion:240 Resp: 244671

Ion Ratio Lower Upper

240 100

120 16.0 5.8 8.8#

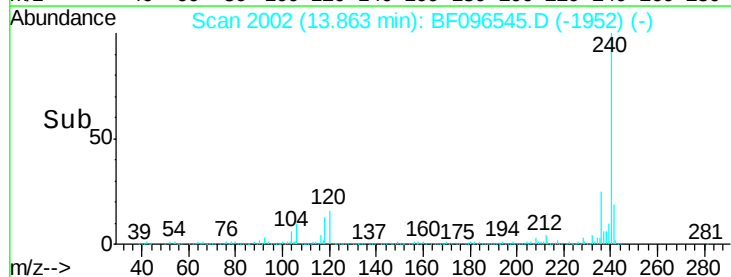
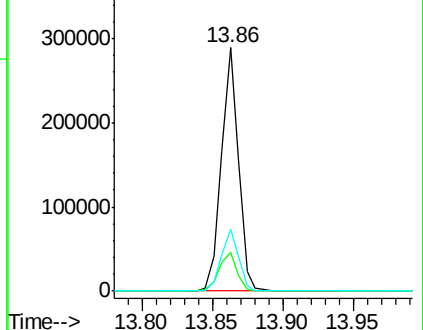
236 25.3 20.5 30.7

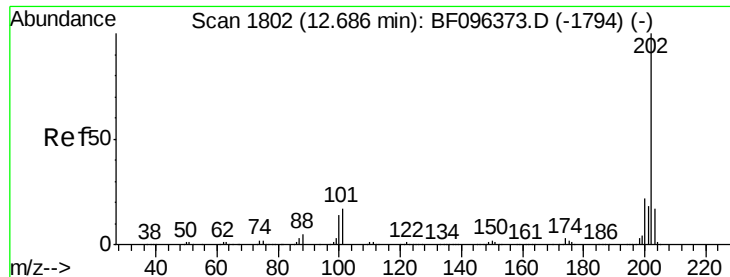


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

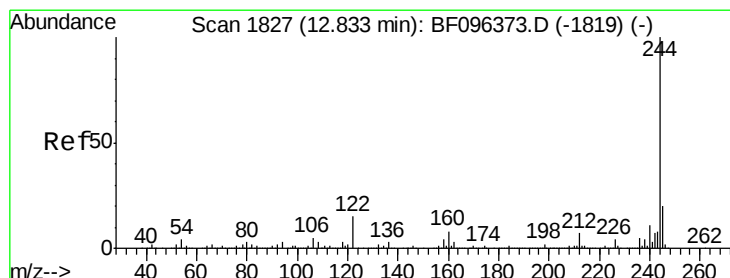
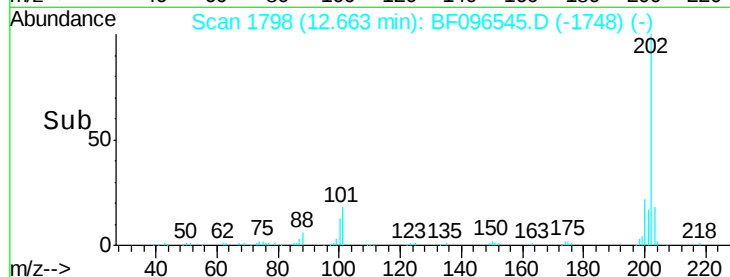
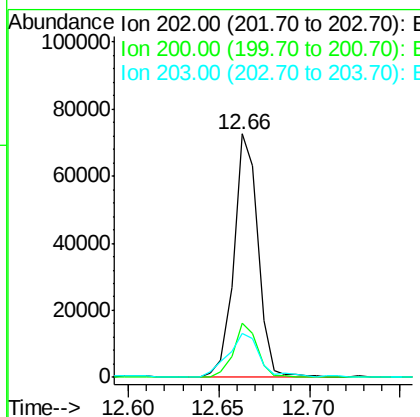
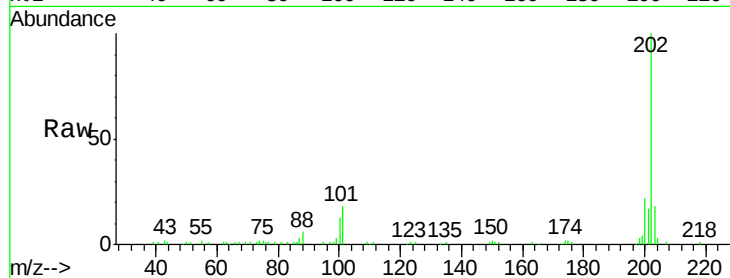




#77  
Pvrene  
Concen: 3.42 ng  
RT: 12.66 min Scan# 1798  
Delta R.T. -0.01 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

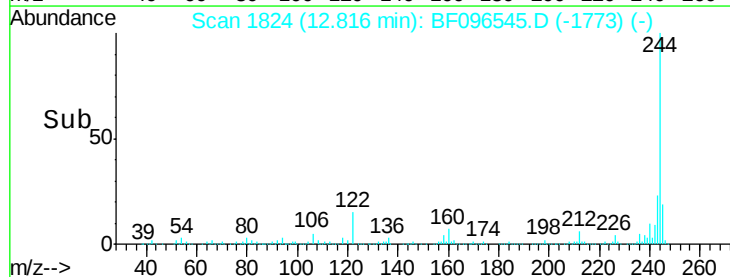
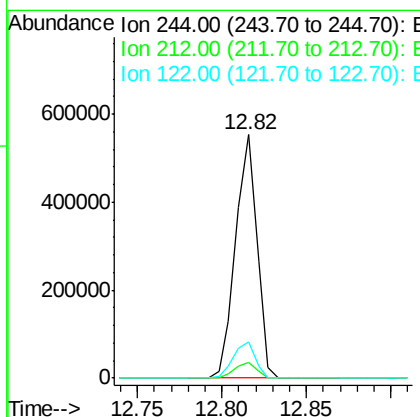
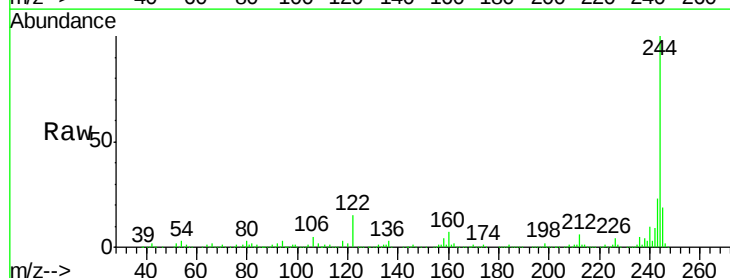
Instrument :  
BNA\_F  
ClientSampled :

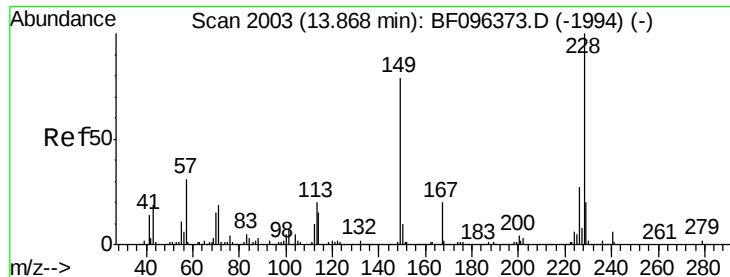
Tot Ion:202 Resp: 67228  
Ion Ratio Lower Upper  
202 100  
200 22.1 17.6 26.4  
203 18.0 14.4 21.6



#78  
Terphenyl-d14  
Concen: 42.59 ng  
RT: 12.82 min Scan# 1824  
Delta R.T. 0.00 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Tgt Ion:244 Resp: 487660  
Ion Ratio Lower Upper  
244 100  
212 6.4 6.0 9.0  
122 14.9 10.3 15.5

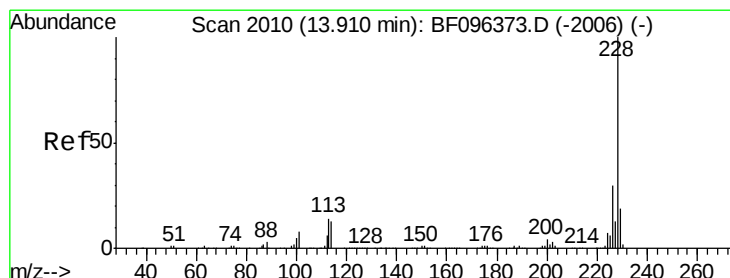
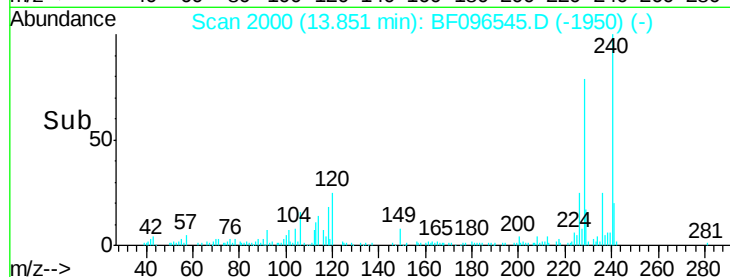
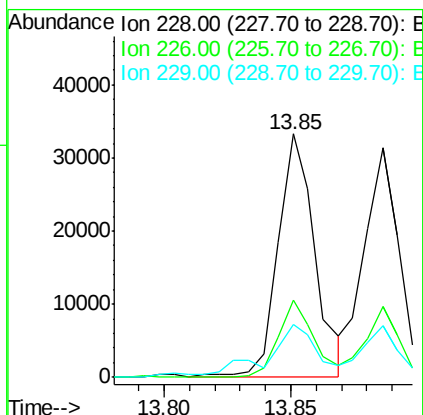
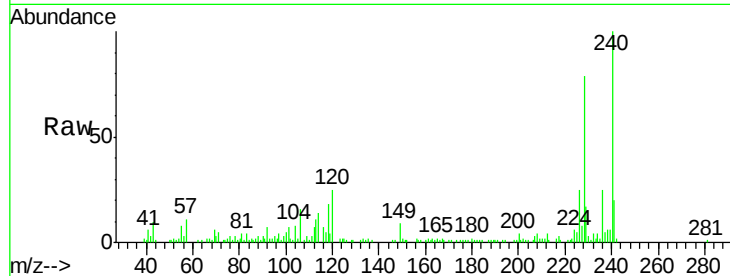




#80  
Benzo(a)anthracene  
Concen: 2.40 ng  
RT: 13.85 min Scan# 2000  
Delta R.T. -0.01 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

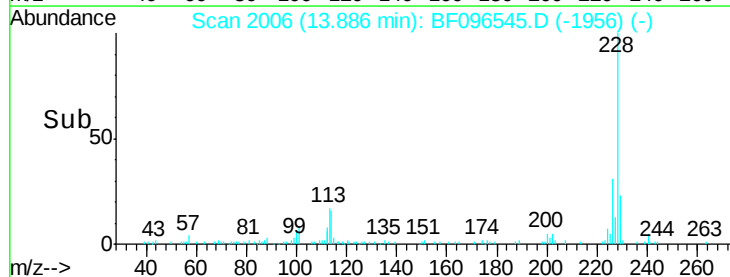
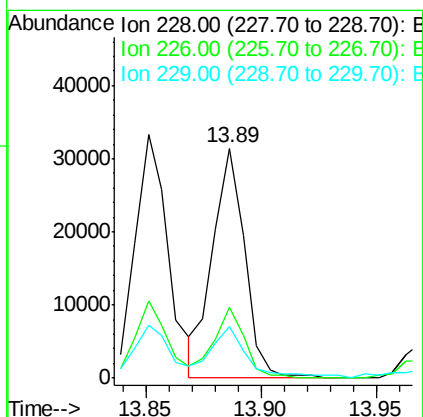
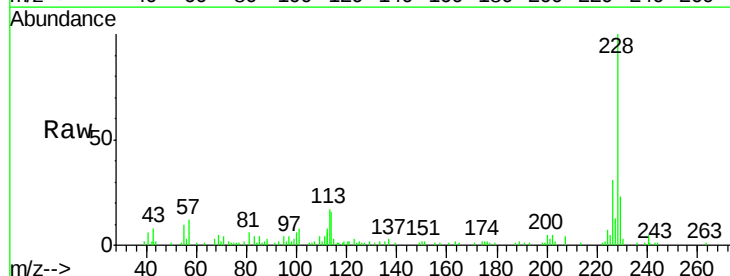
Instrument :  
BNA\_F  
ClientSampleId :

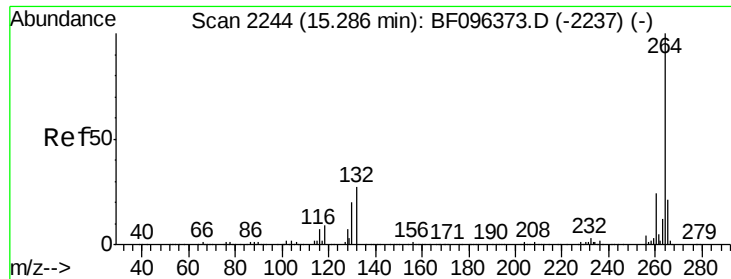
Tot Ion:228 Resp: 34001  
Ion Ratio Lower Upper  
228 100  
226 31.6 22.6 33.8  
229 21.6 16.3 24.5



#82  
Chrysene  
Concen: 2.05 ng  
RT: 13.89 min Scan# 2006  
Delta R.T. -0.01 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Tgt Ion:228 Resp: 30441  
Ion Ratio Lower Upper  
228 100  
226 30.6 24.9 37.3  
229 22.6 15.8 23.6

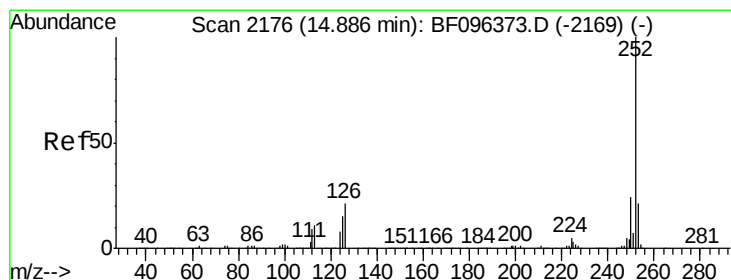
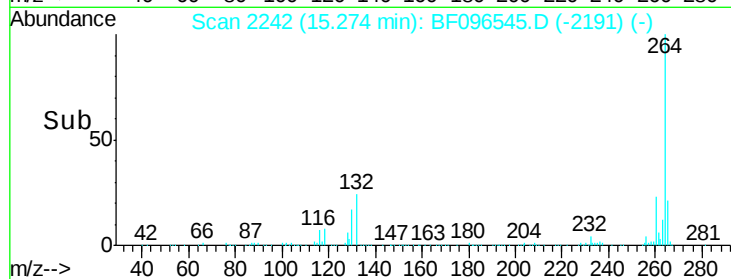
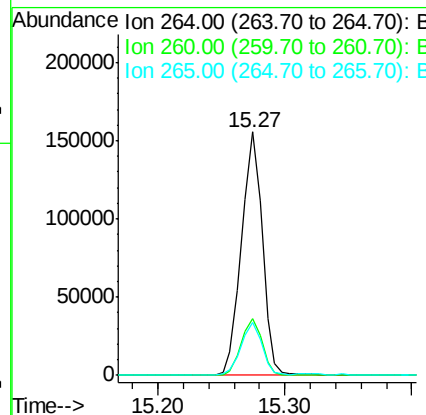
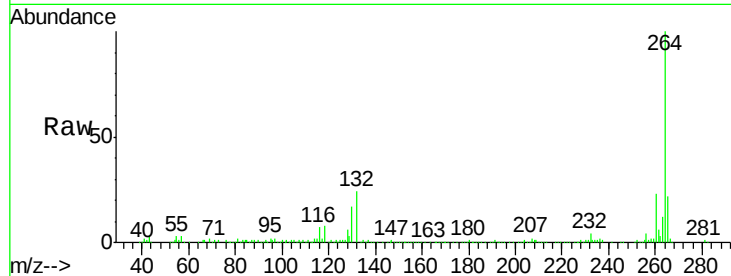




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.27 min Scan# 2242  
Delta R.T. 0.00 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

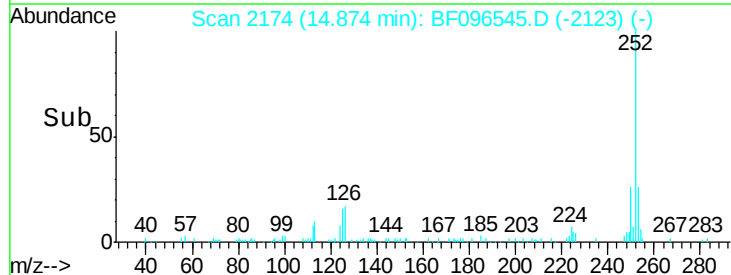
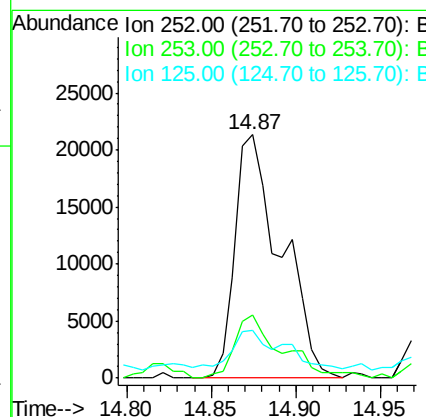
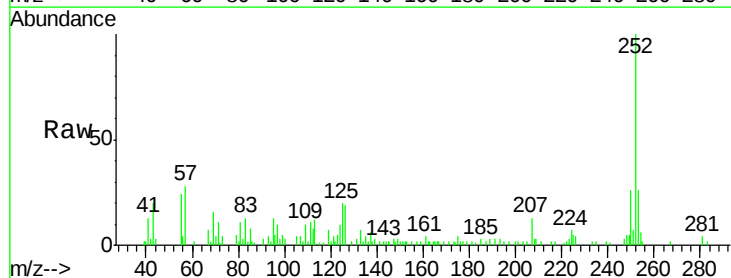
Instrument :  
BNA\_F  
ClientSampled :

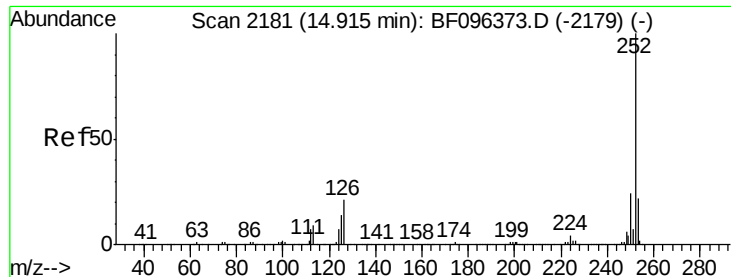
Tot Ion:264 Resp: 177343  
Ion Ratio Lower Upper  
264 100  
260 23.4 19.5 29.3  
265 21.6 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 3.63 ng  
RT: 14.87 min Scan# 2174  
Delta R.T. 0.00 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Tgt Ion:252 Resp: 40283  
Ion Ratio Lower Upper  
252 100  
253 25.7 18.1 27.1  
125 19.8 9.8 14.8#

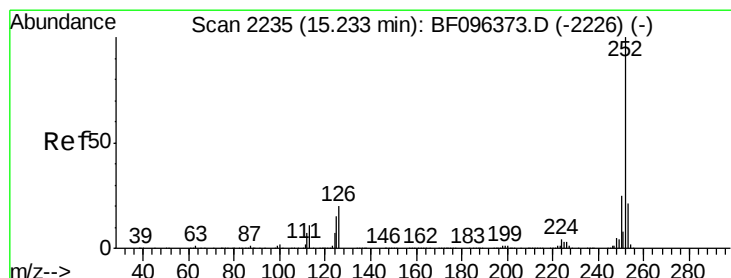
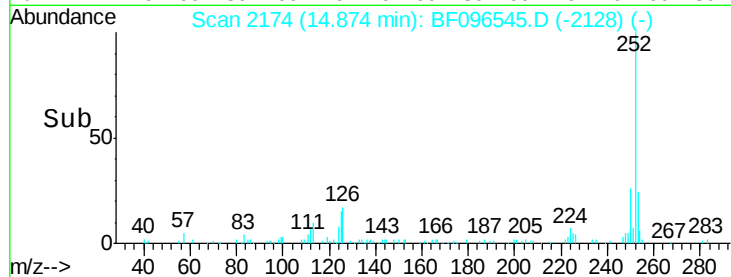
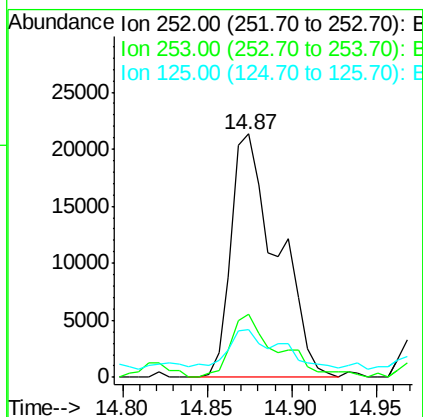
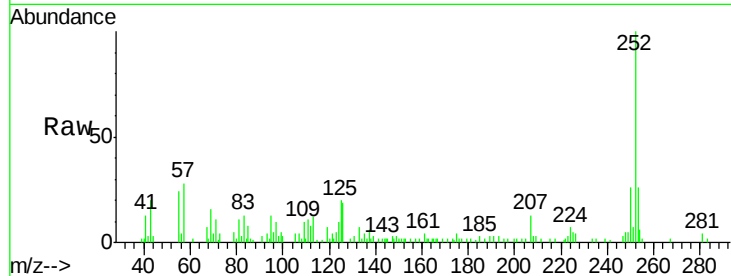




#88  
Benzo(k)fluoranthene  
Concen: 4.05 ng  
RT: 14.87 min Scan# 2174  
Delta R.T. -0.03 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 40283  
Ion Ratio Lower Upper  
252 100  
253 25.7 18.4 27.6  
125 19.8 13.1 19.7#



#89  
Benzo(a)pyrene  
Concen: 2.17 ng  
RT: 15.22 min Scan# 2232  
Delta R.T. 0.00 min  
Lab File: BF096545.D  
Acq: 6 Jul 2017 20:43

Tgt Ion:252 Resp: 21537  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.5 26.3  
125 19.7 11.0 16.4#

