

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061119\  
 Data File : BF114943.D  
 Acq On : 11 Jun 2019 13:52  
 Operator : HP/JU  
 Sample : K3160-05 2X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-060619-C

Quant Time: Jun 11 14:19:12 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 10 16:44:00 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.66  | 152  | 240717   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.94  | 136  | 924766   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.69  | 164  | 454839   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.16 | 188  | 826843   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.78 | 240  | 628472   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.17 | 264  | 619662   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.26  | 112  | 672107   | 47.25 | ng    | 0.00     |
| 7) Phenol-d6                | 6.30  | 99   | 839340   | 48.92 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.22  | 82   | 489489   | 32.52 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.47 | 330  | 220255   | 44.52 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.02  | 172  | 1023484  | 35.71 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.75 | 244  | 950012   | 30.06 | ng    | 0.00     |

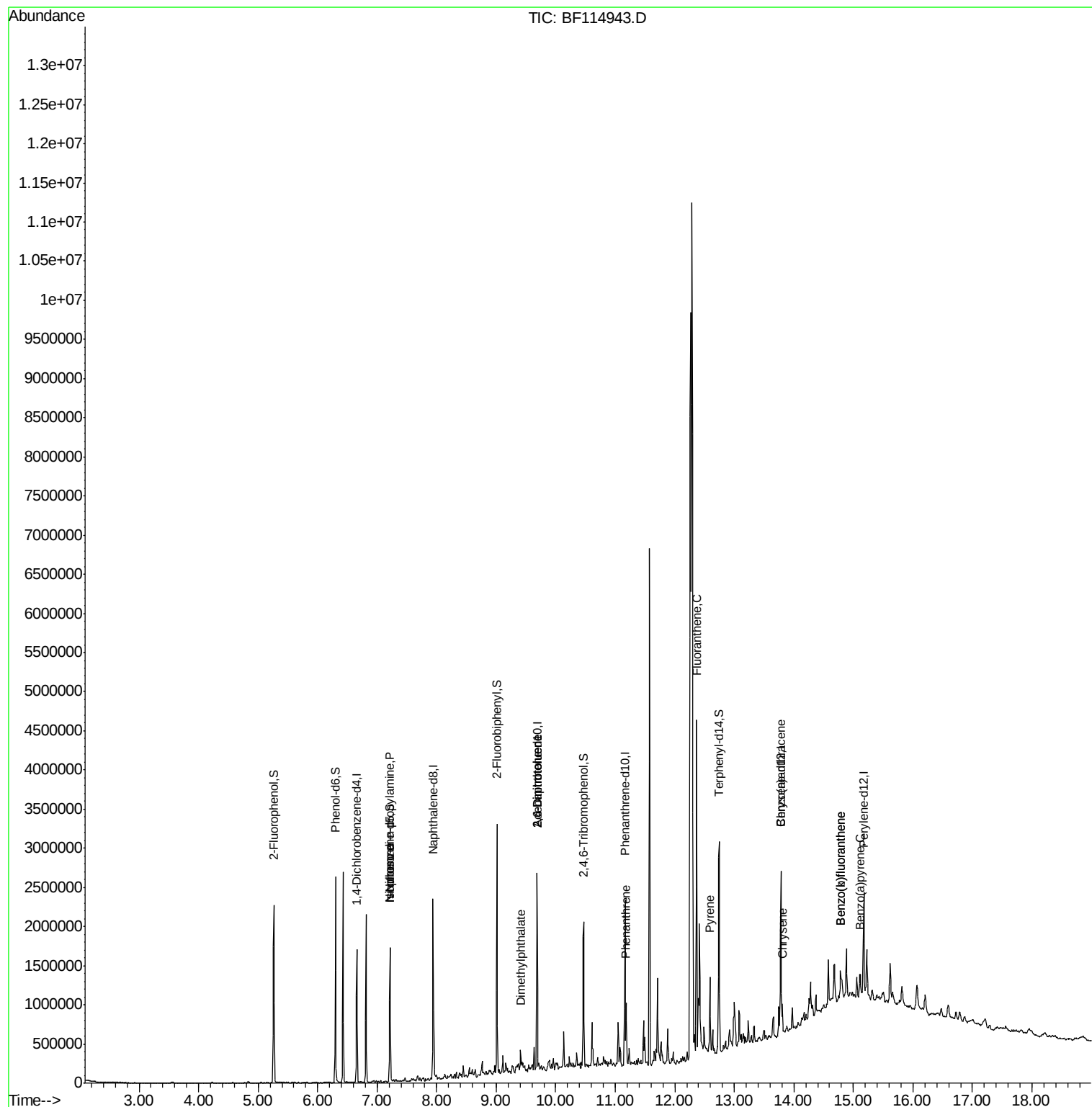
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.22  | 70   | 65369    | 6.093  | ng    | # 75   |
| 25) Isophorone                 | 7.22  | 82   | 480405   | 16.300 | ng    | # 62   |
| 50) Dimethylphthalate          | 9.41  | 163  | 95324    | 2.788  | ng    | 98     |
| 51) 2,6-Dinitrotoluene         | 9.69  | 165  | 61713    | 7.860  | ng    | # 31   |
| 57) 2,4-Dinitrotoluene         | 9.69  | 165  | 61713    | 6.218  | ng    | # 28   |
| 71) Phenanthrene               | 11.18 | 178  | 270455   | 6.742  | ng    | 96     |
| 75) Fluoranthene               | 12.36 | 202  | 298618   | 7.197  | ng    | 85     |
| 78) Pyrene                     | 12.59 | 202  | 331432   | 6.055  | ng    | 96     |
| 81) Benzo(a)anthracene         | 13.77 | 228  | 166186   | 3.576  | ng    | 96     |
| 83) Chrysene                   | 13.80 | 228  | 161587   | 3.463  | ng    | 96     |
| 88) Benzo(b)fluoranthene       | 14.79 | 252  | 248141   | 6.151  | ng    | # 92   |
| 89) Benzo(k)fluoranthene       | 14.79 | 252  | 248141   | 7.088  | ng    | # 92   |
| 90) Benzo(a)pyrene             | 15.12 | 252  | 133426   | 3.808  | ng    | # 94   |

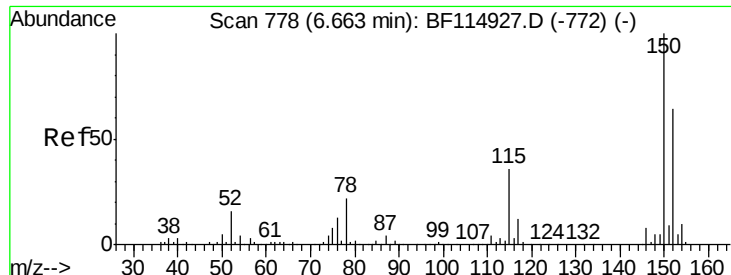
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061119\  
Data File : BF114943.D  
Acq On : 11 Jun 2019 13:52  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

Quant Time: Jun 11 14:19:12 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 10 16:44:00 2019  
Response via : Initial Calibration



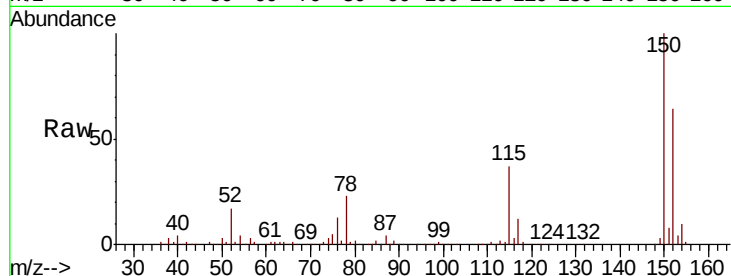


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.66 min Scan# 777  
 Delta R.T. -0.01 min  
 Lab File: BF114943.D  
 Acq: 11 Jun 2019 13:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-060619-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.4 | 125.2 | 187.8 |
| 115     | 58.5  | 45.0  | 67.4  |

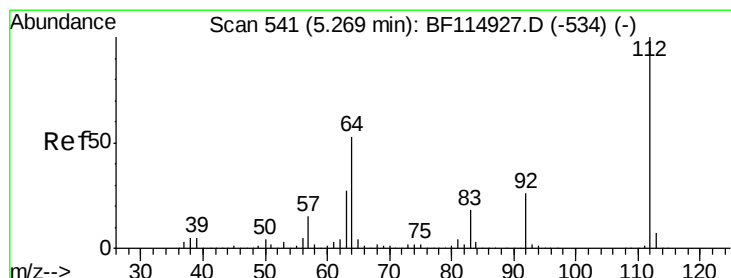
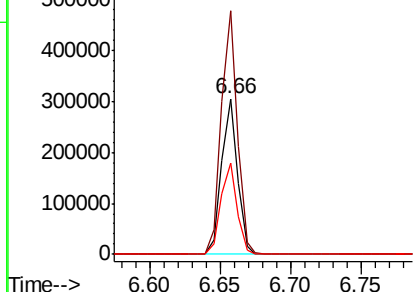
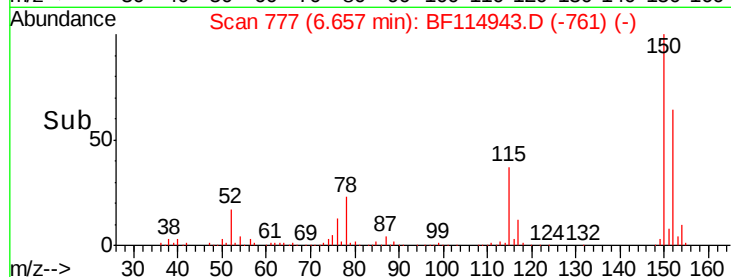


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

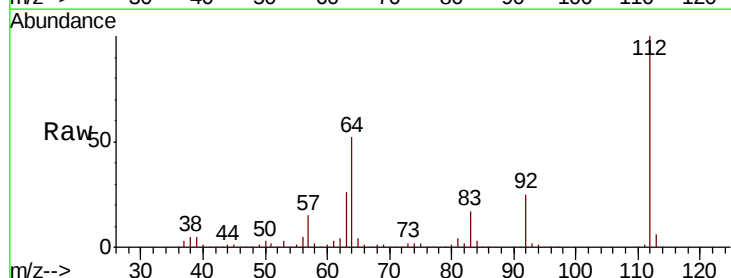
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
 Concen: 47.254 ng  
 RT: 5.26 min Scan# 540  
 Delta R.T. -0.01 min  
 Lab File: BF114943.D  
 Acq: 11 Jun 2019 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.6  | 42.1  | 63.1  |
| 63      | 25.9  | 21.8  | 32.8  |

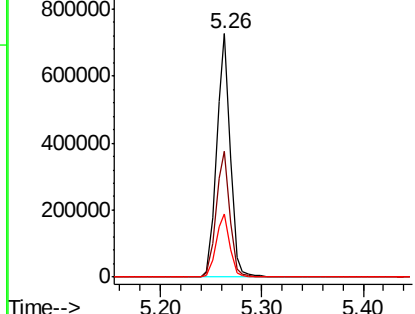
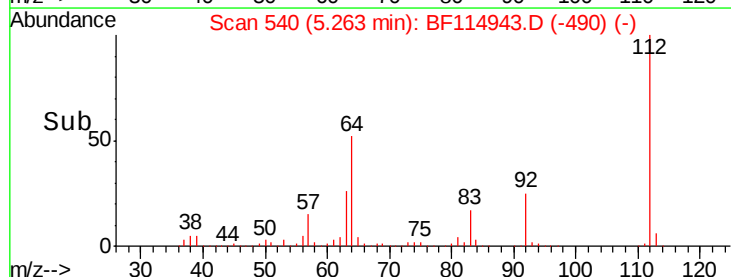


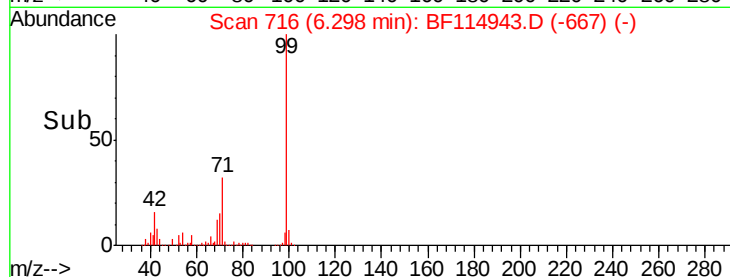
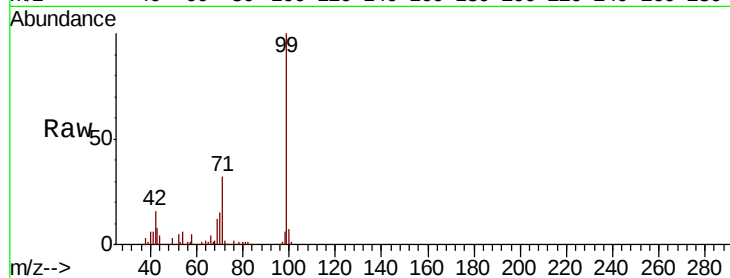
Abundance

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: 48.924 ng

RT: 6.30 min Scan# 716

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Instrument :

BNA\_F

ClientSampleId :

EO-02-060619-C

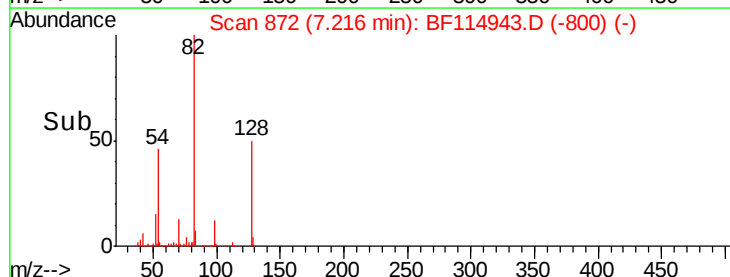
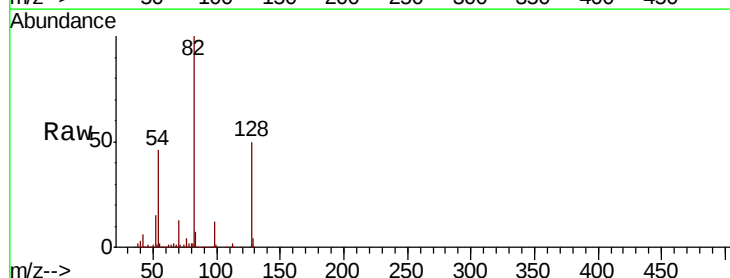
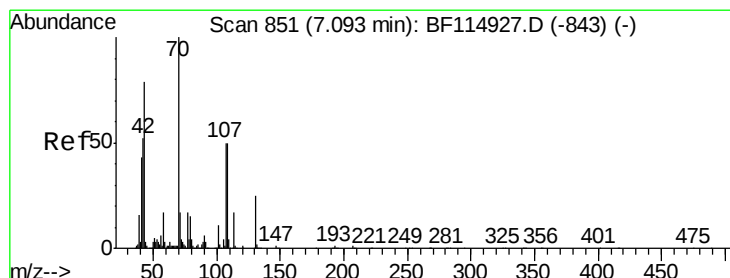
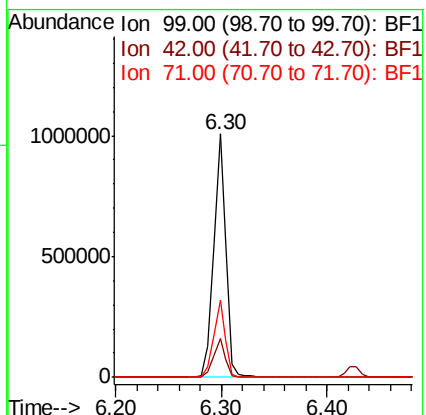
Tot Ion: 99 Resp: 839340

Ion Ratio Lower Upper

99 100

42 15.8 13.1 19.7

71 32.0 26.8 40.2



#19

n-Nitroso-di-n-propylamine

Concen: 6.093 ng

RT: 7.22 min Scan# 872

Delta R.T. 0.12 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Tgt Ion: 70 Resp: 65369

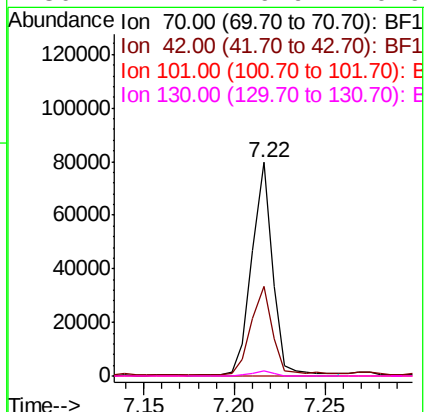
Ion Ratio Lower Upper

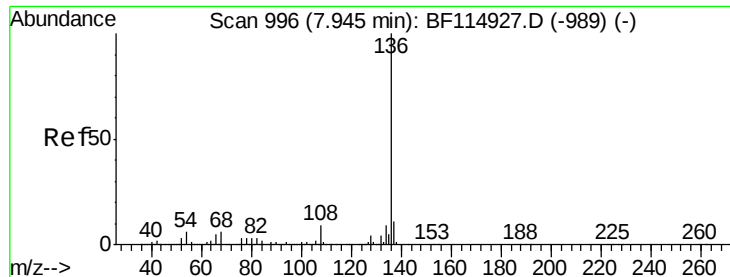
70 100

42 41.9 41.7 62.5

101 0.0 8.4 12.6#

130 2.2 19.9 29.9#

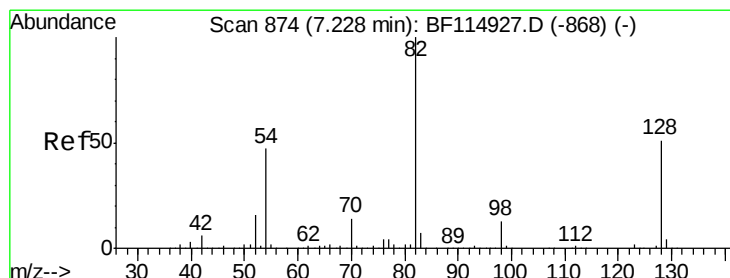
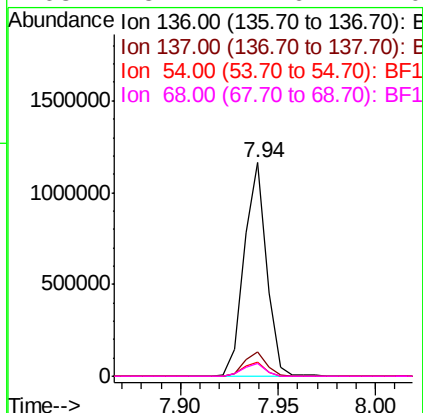
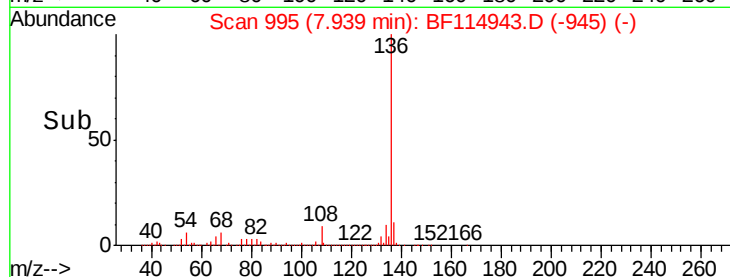
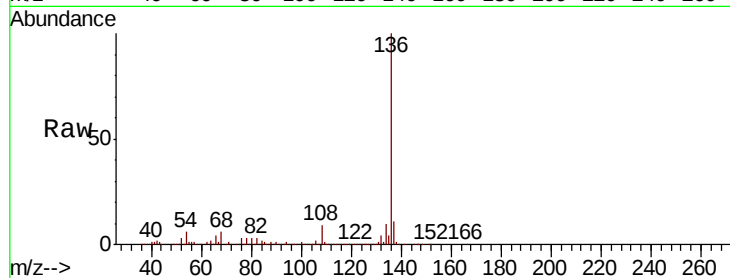




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.94 min Scan# 995  
Delta R.T. -0.01 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

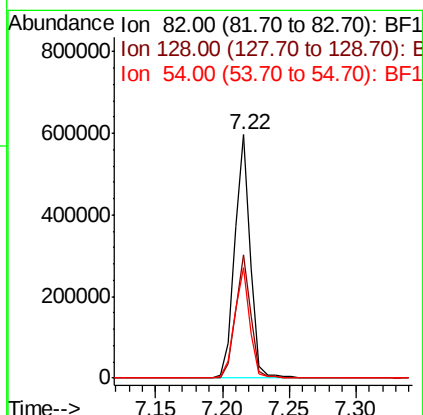
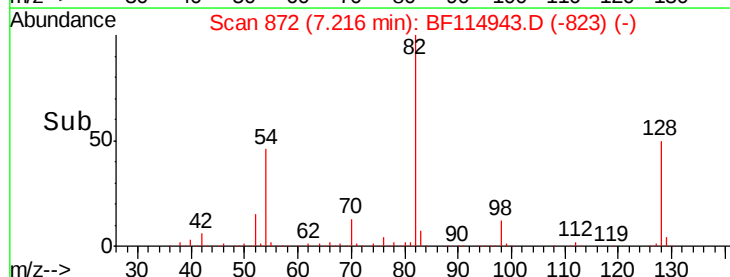
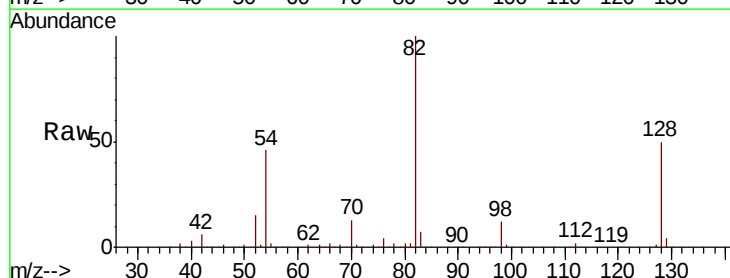
Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

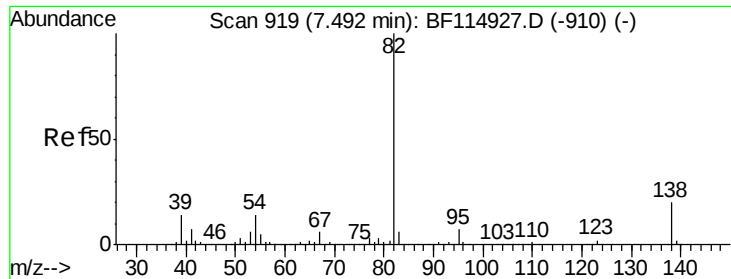
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 924766      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.4  | 9.0 13.6    |
| 54          | 6.5   | 5.2 7.8     |
| 68          | 5.7   | 4.6 7.0     |



#23  
Nitrobenzene-d5  
Concen: 32.522 ng  
RT: 7.22 min Scan# 872  
Delta R.T. -0.01 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 489489      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 50.5  | 40.9 61.3   |
| 54          | 45.5  | 37.4 56.0   |

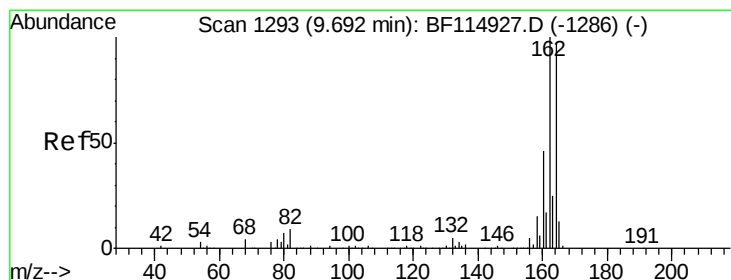
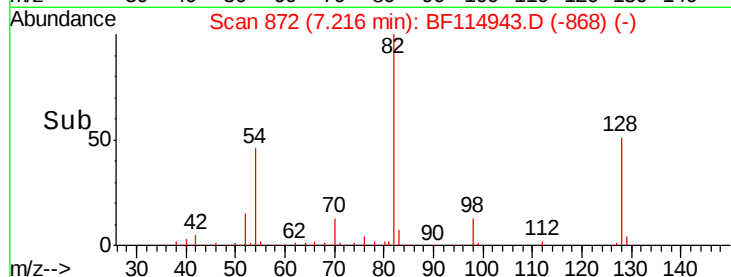
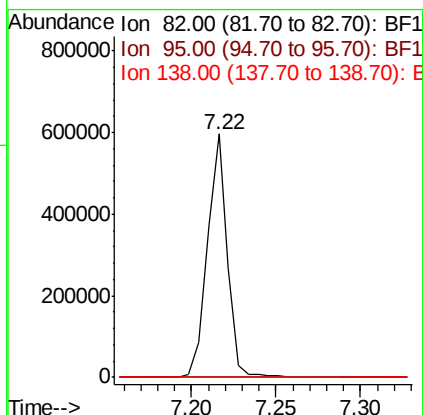
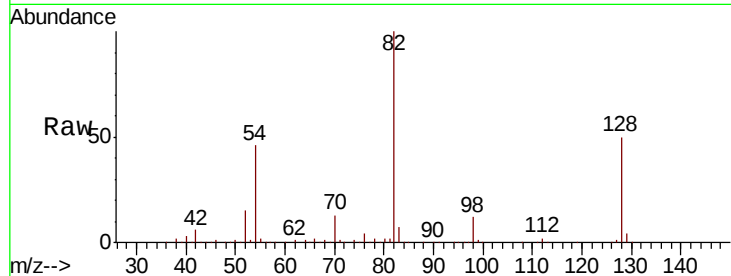




#25  
Isophorone  
Concen: 16.300 ng  
RT: 7.22 min Scan# 872  
Delta R.T. -0.28 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

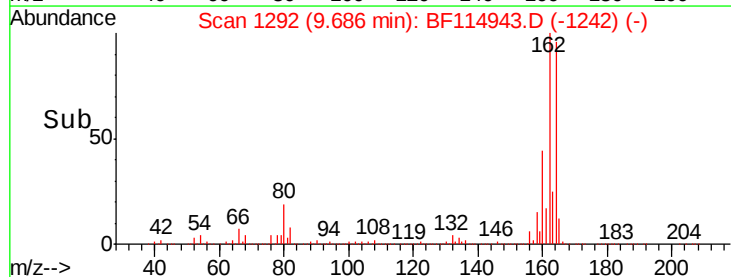
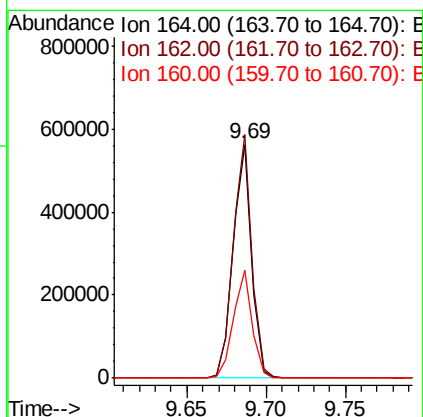
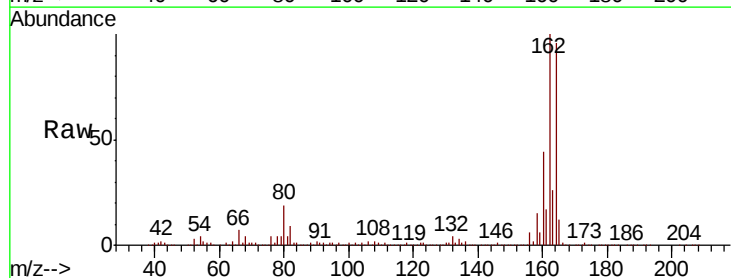
Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

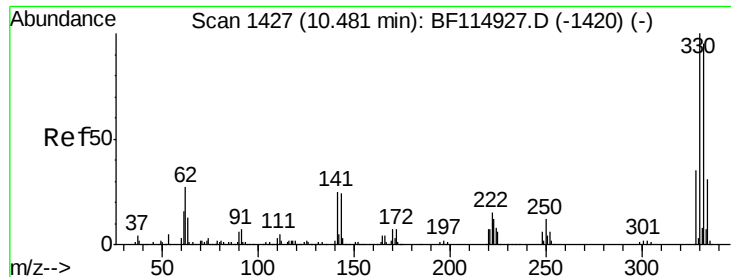
Tot Ion: 82 Resp: 480405  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.7 8.5#  
138 0.0 16.4 24.6#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.69 min Scan# 1292  
Delta R.T. -0.01 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

Tgt Ion: 164 Resp: 454839  
Ion Ratio Lower Upper  
164 100  
162 104.1 82.4 123.6  
160 46.2 37.5 56.3





#42

2,4,6-Tribromophenol

Concen: 44.516 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Instrument :

BNA\_F

ClientSampleId :

EO-02-060619-C

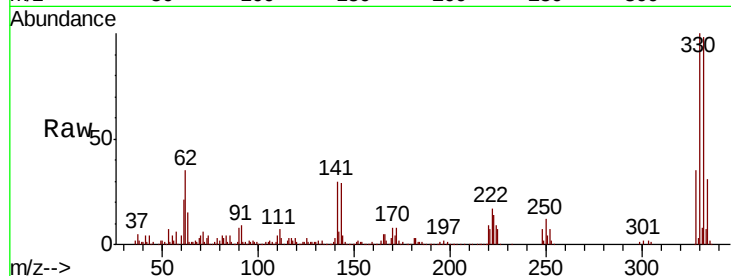
Tot Ion:330 Resp: 220255

Ion Ratio Lower Upper

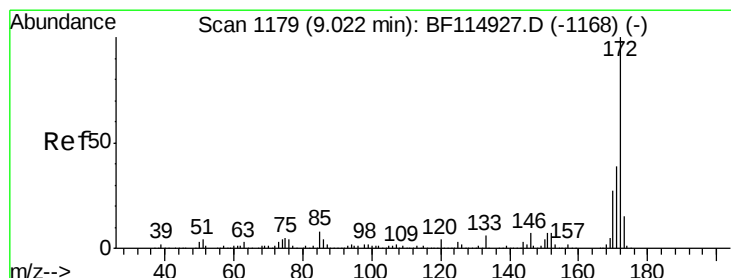
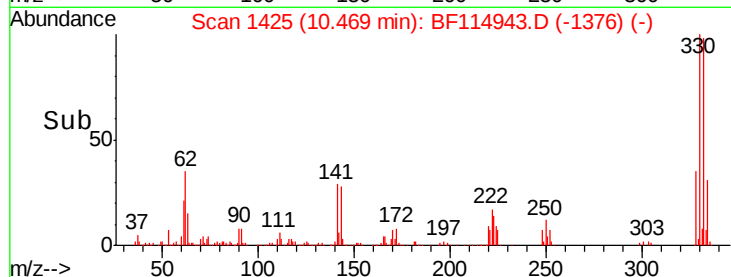
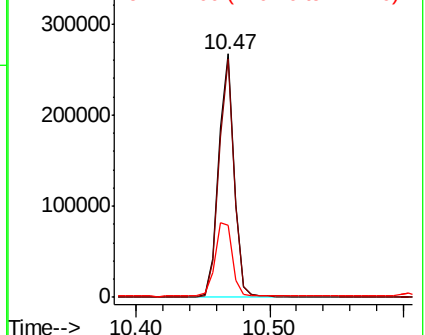
330 100

332 97.1 76.4 114.6

141 34.1 26.8 40.2



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



#45

2-Fluorobiphenyl

Concen: 35.712 ng

RT: 9.02 min Scan# 1178

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

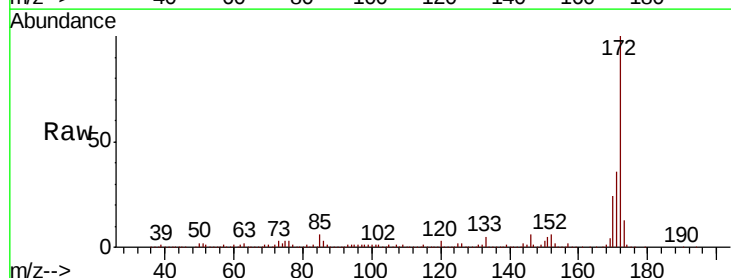
Tgt Ion:172 Resp: 1023484

Ion Ratio Lower Upper

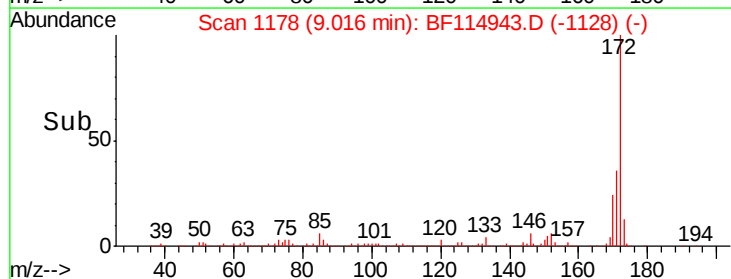
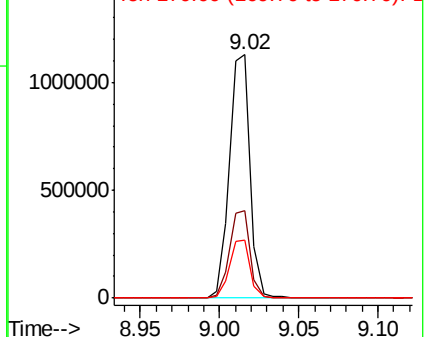
172 100

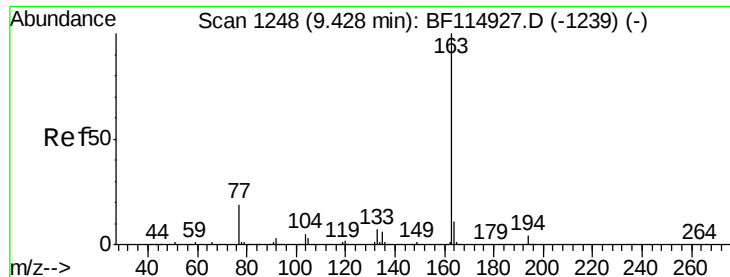
171 35.8 31.3 46.9

170 23.9 21.4 32.0



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

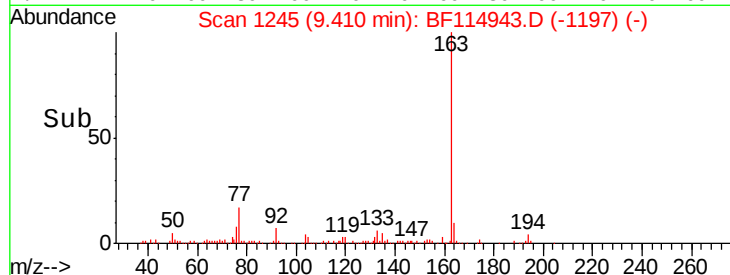
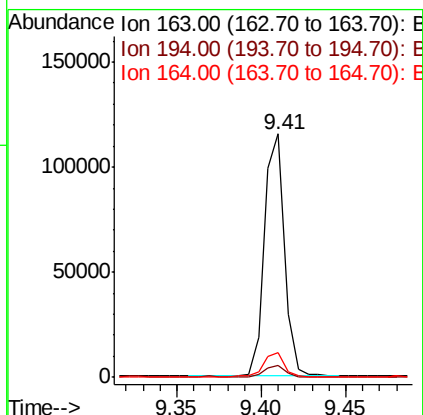
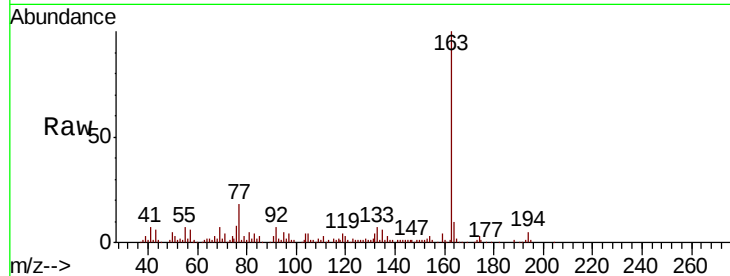




#50  
Dimethylphthalate  
Concen: 2.788 ng  
RT: 9.41 min Scan# 1245  
Delta R.T. -0.02 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

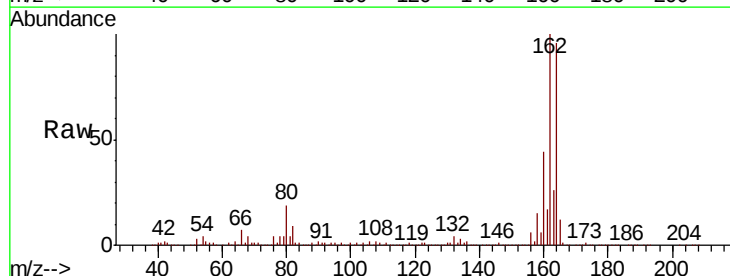
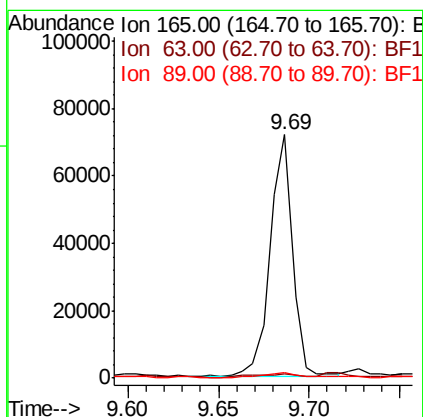
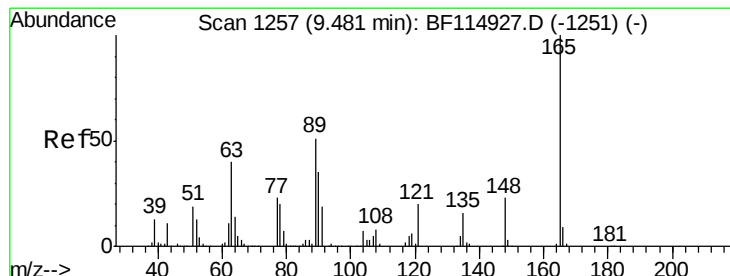
Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

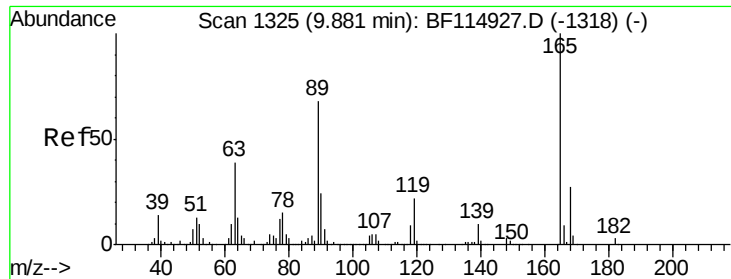
Tot Ion:163 Resp: 95324  
Ion Ratio Lower Upper  
163 100  
194 4.7 3.4 5.0  
164 10.0 8.7 13.1



#51  
2,6-Dinitrotoluene  
Concen: 7.860 ng  
RT: 9.69 min Scan# 1292  
Delta R.T. 0.21 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

Tgt Ion:165 Resp: 61713  
Ion Ratio Lower Upper  
165 100  
63 1.6 38.3 57.5#  
89 2.4 40.8 61.2#

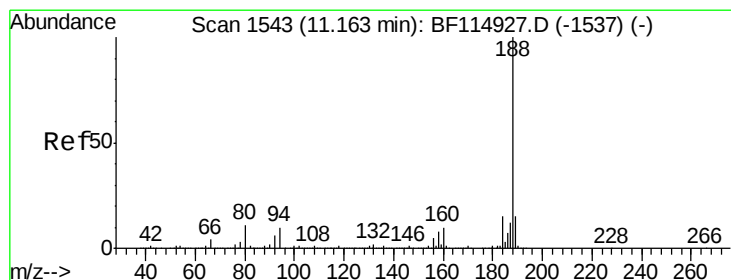
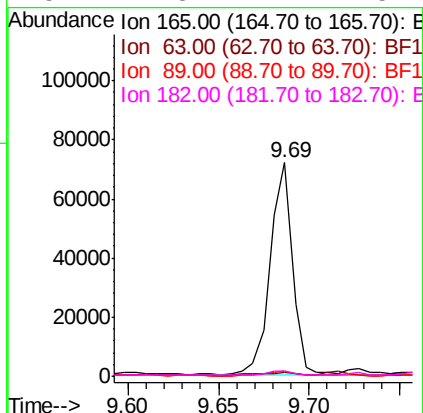
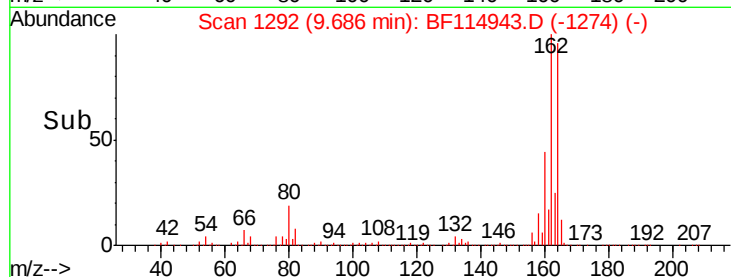
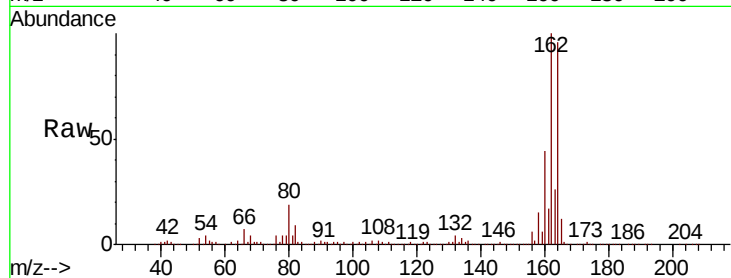




#57  
 2,4-Dinitrotoluene  
 Concen: 6.218 ng  
 RT: 9.69 min Scan# 1292  
 Delta R.T. -0.19 min  
 Lab File: BF114943.D  
 Acq: 11 Jun 2019 13:52

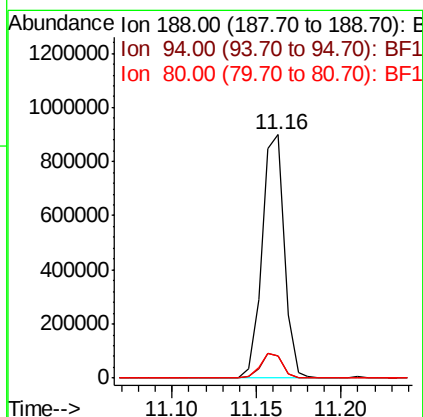
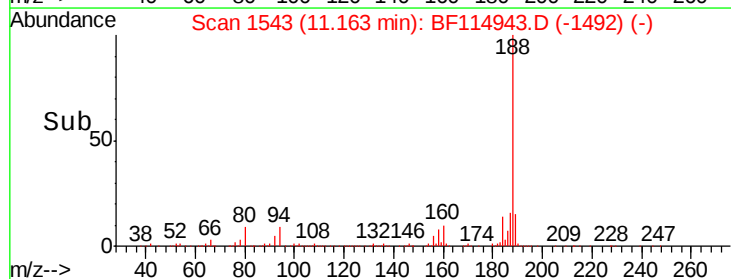
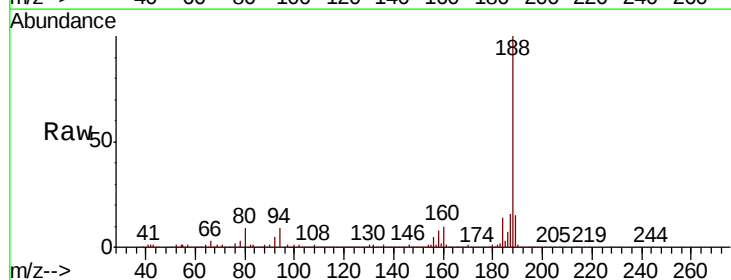
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-060619-C

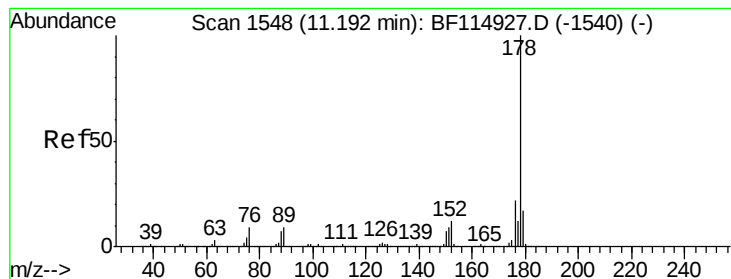
Tot Ion:165 Resp: 61713  
 Ion Ratio Lower Upper  
 165 100  
 63 1.6 31.8 47.6#  
 89 2.4 54.2 81.2#  
 182 2.3 2.1 3.1



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.16 min Scan# 1543  
 Delta R.T. 0.00 min  
 Lab File: BF114943.D  
 Acq: 11 Jun 2019 13:52

Tgt Ion:188 Resp: 826843  
 Ion Ratio Lower Upper  
 188 100  
 94 8.9 8.1 12.1  
 80 9.1 8.6 12.8





#71

Phenanthrene

Concen: 6.742 ng

RT: 11.18 min Scan# 1546

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Instrument :

BNA\_F

ClientSampleId :

EO-02-060619-C

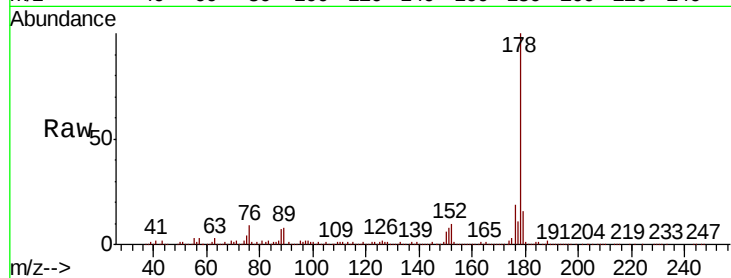
Tot Ion:178 Resp: 270455

Ion Ratio Lower Upper

178 100

176 19.1 17.4 26.2

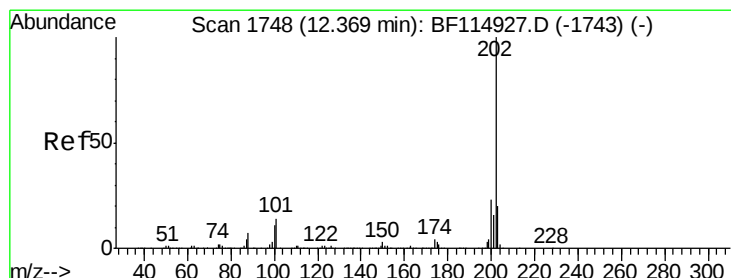
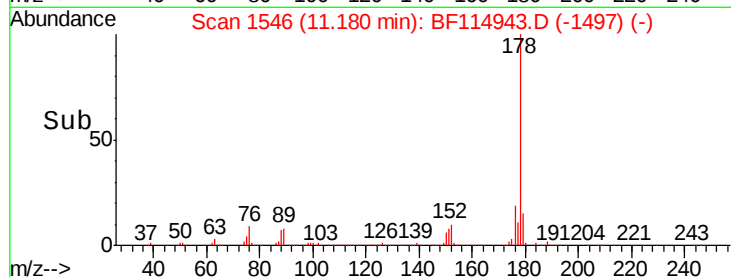
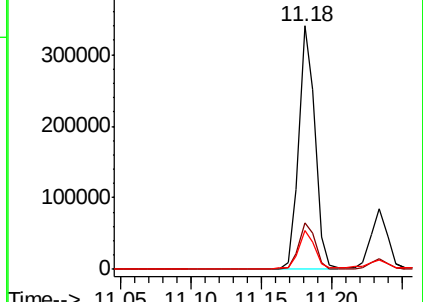
179 15.9 13.6 20.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 7.197 ng

RT: 12.36 min Scan# 1747

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

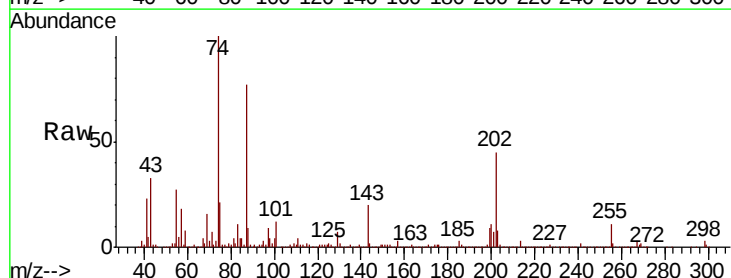
Tgt Ion:202 Resp: 298618

Ion Ratio Lower Upper

202 100

101 26.6 0.0 34.3

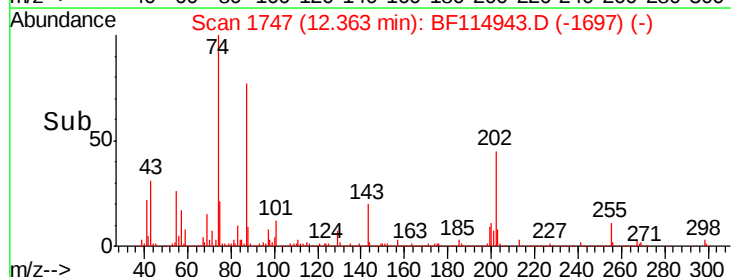
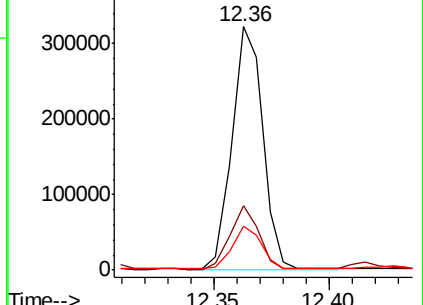
203 17.9 0.0 39.6

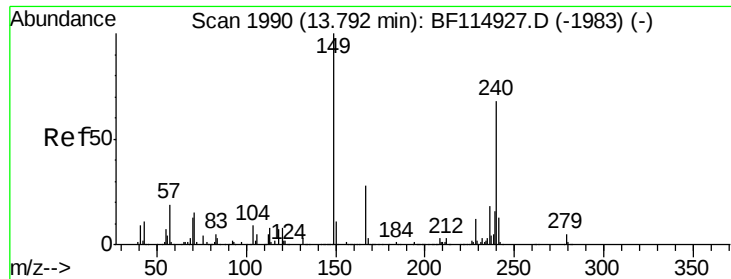


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

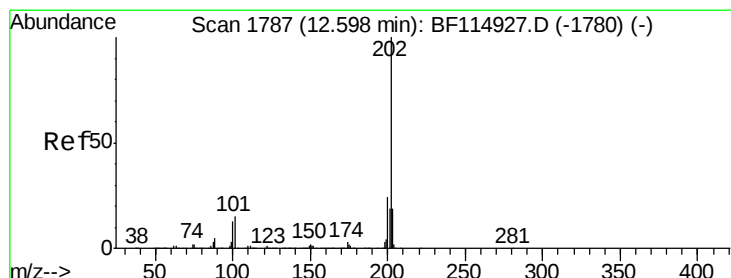
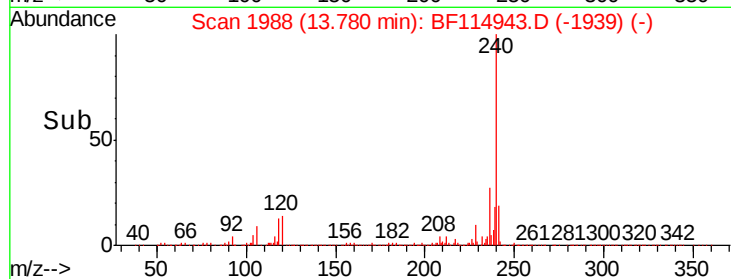
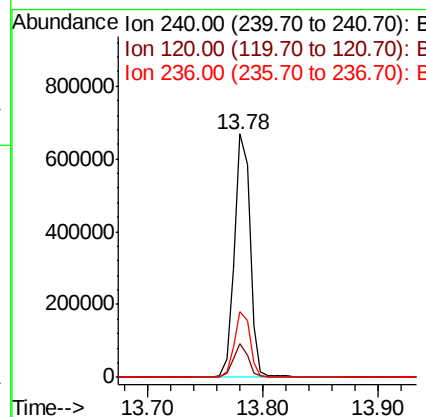
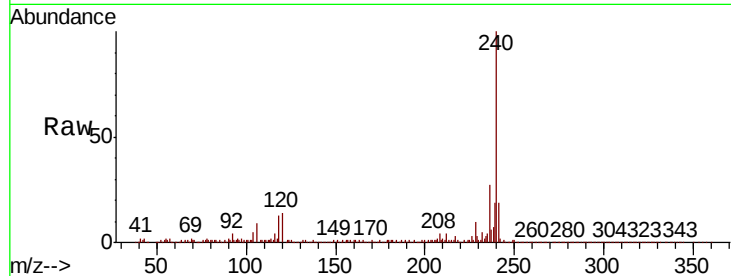




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.78 min Scan# 1988  
Delta R.T. -0.01 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

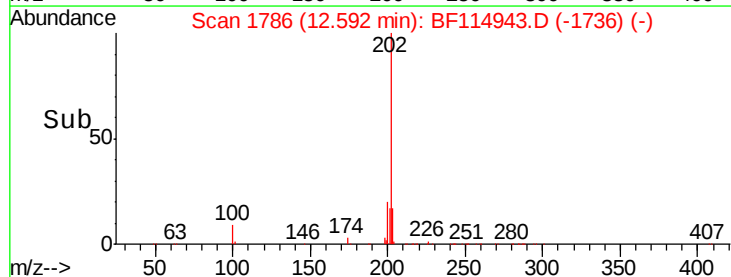
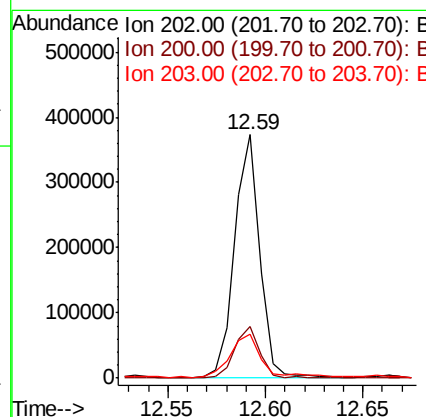
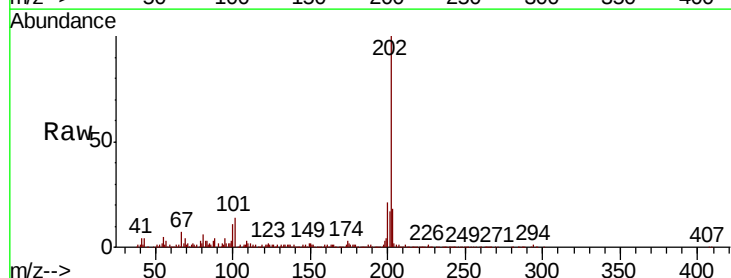
Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

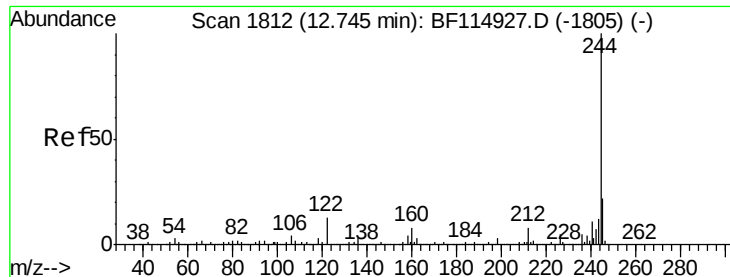
Tot Ion:240 Resp: 628472  
Ion Ratio Lower Upper  
240 100  
120 14.0 9.2 13.8#  
236 26.9 21.7 32.5



#78  
Pyrene  
Concen: 6.055 ng  
RT: 12.59 min Scan# 1786  
Delta R.T. -0.01 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

Tgt Ion:202 Resp: 331432  
Ion Ratio Lower Upper  
202 100  
200 21.3 18.9 28.3  
203 18.0 15.2 22.8





#79

Terphenyl-d14

Concen: 30.062 ng

RT: 12.75 min Scan# 1812

Delta R.T. 0.00 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Instrument :

BNA\_F

ClientSampleId :

EO-02-060619-C

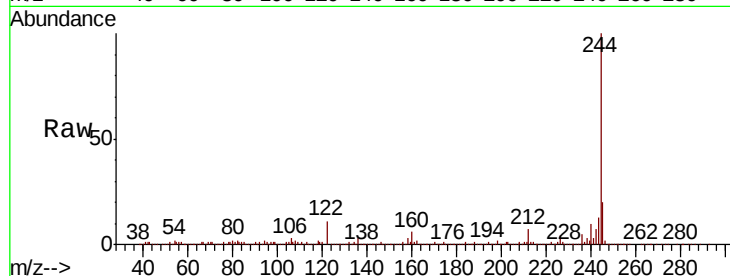
Tot Ion:244 Resp: 950012

Ion Ratio Lower Upper

244 100

212 6.6 6.2 9.2

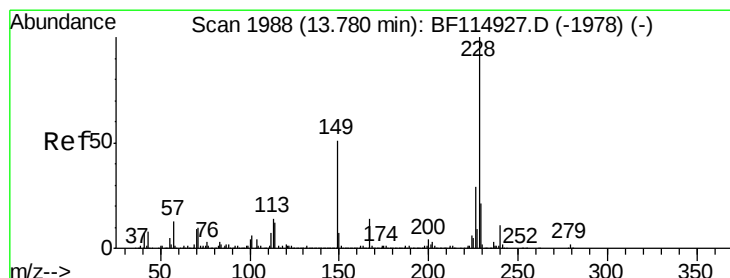
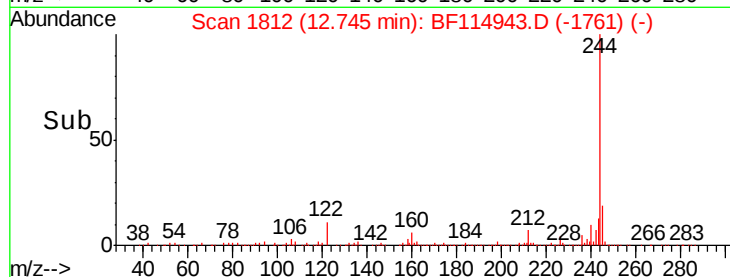
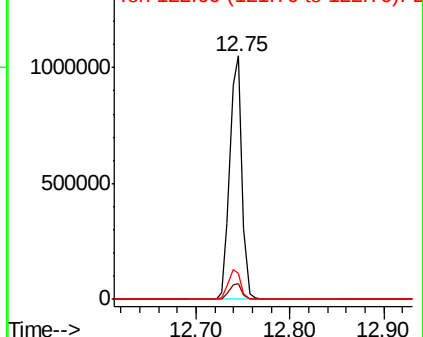
122 10.8 10.2 15.4



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: 3.576 ng

RT: 13.77 min Scan# 1987

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

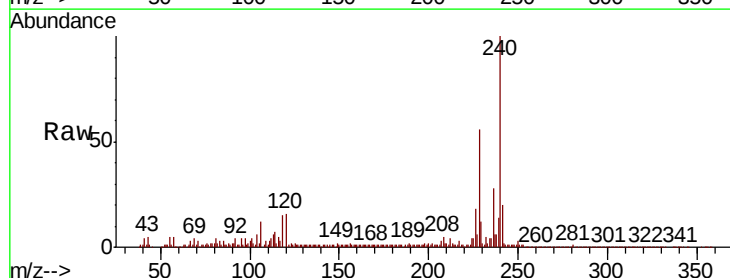
Tgt Ion:228 Resp: 166186

Ion Ratio Lower Upper

228 100

226 31.3 22.8 34.2

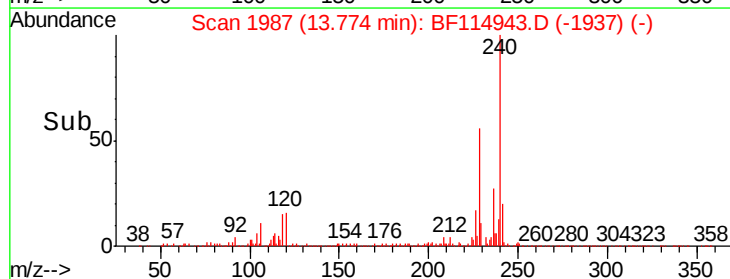
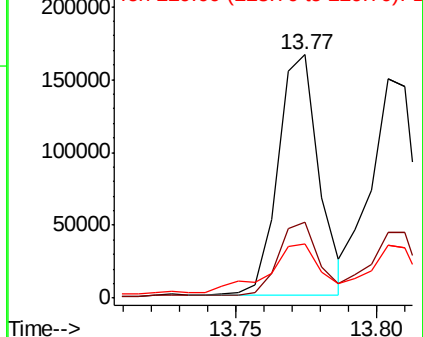
229 22.0 16.6 25.0

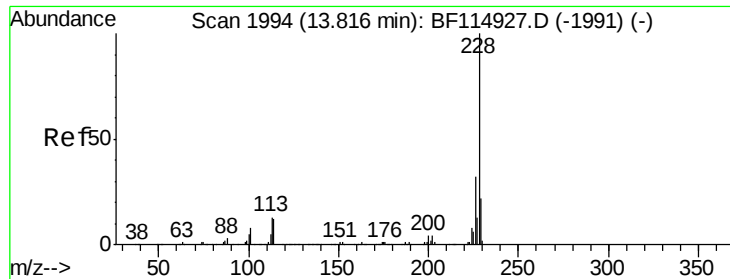


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 3.463 ng

RT: 13.80 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Instrument :

BNA\_F

ClientSampleId :

EO-02-060619-C

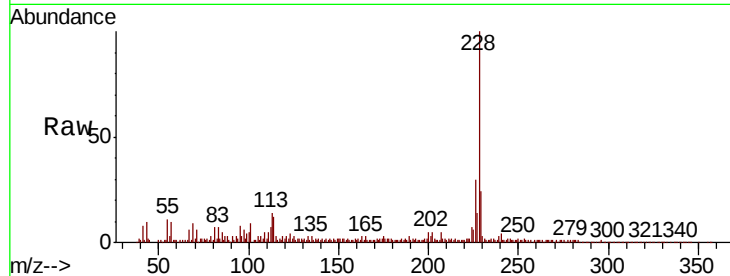
Tot Ion:228 Resp: 161587

Ion Ratio Lower Upper

228 100

226 30.3 25.8 38.8

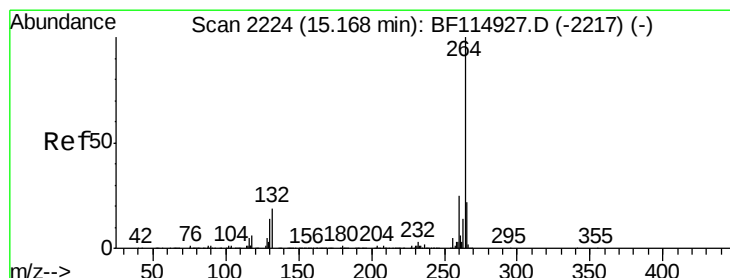
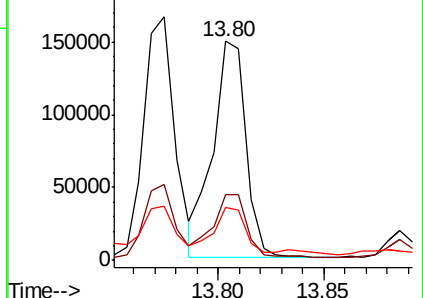
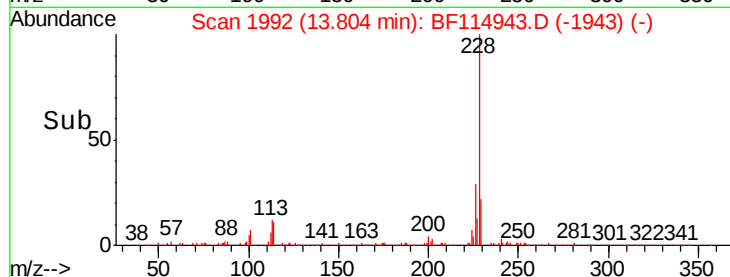
229 24.1 17.2 25.8



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.17 min Scan# 2225

Delta R.T. 0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

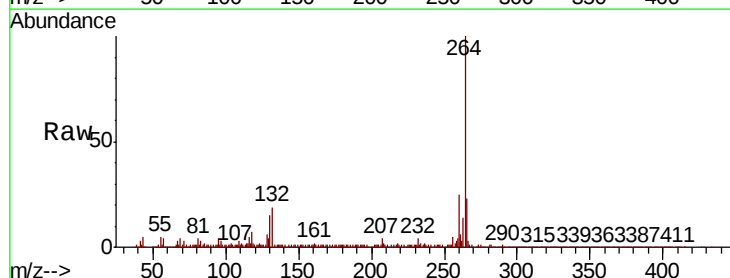
Tgt Ion:264 Resp: 619662

Ion Ratio Lower Upper

264 100

260 24.9 19.7 29.5

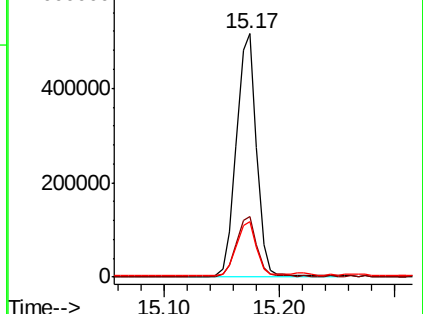
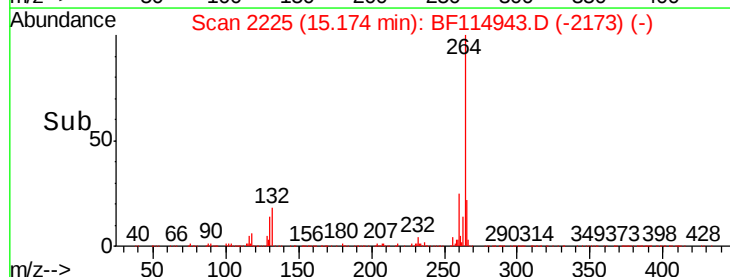
265 22.9 17.5 26.3

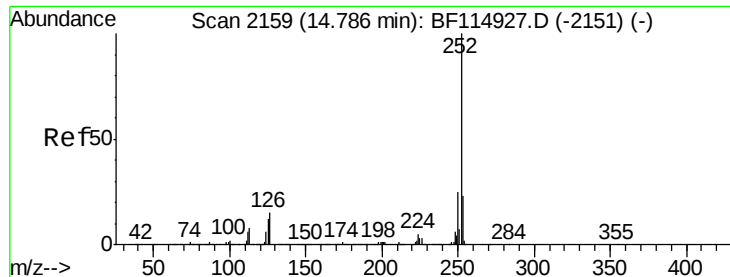


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

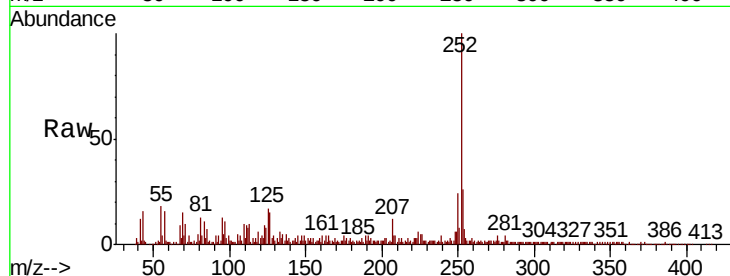




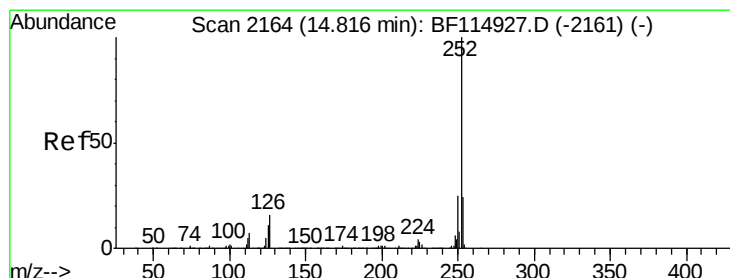
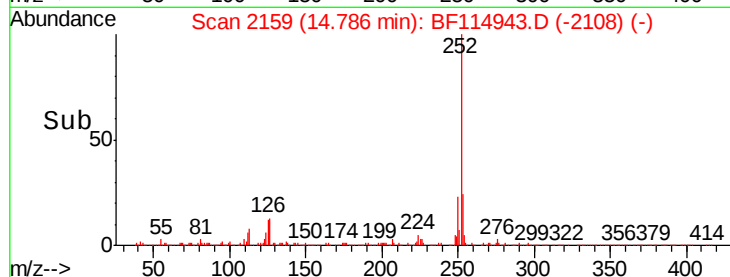
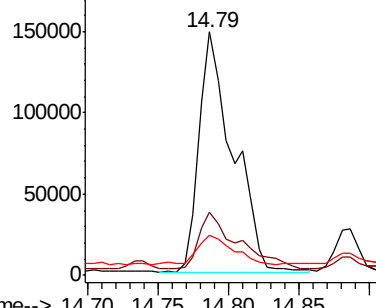
#88  
Benzo(b)fluoranthene  
Concen: 6.151 ng  
RT: 14.79 min Scan# 2159  
Delta R.T. 0.00 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-060619-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 18.6  | 28.0  |
| 125     | 16.7  | 9.5   | 14.3# |

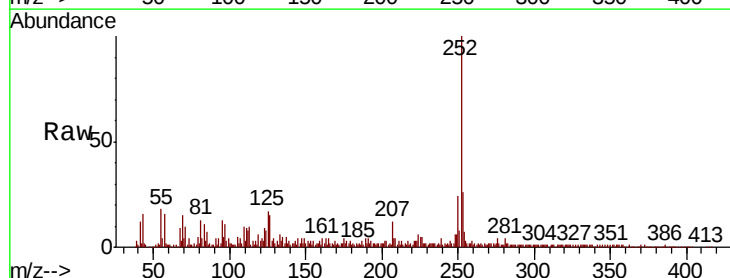


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

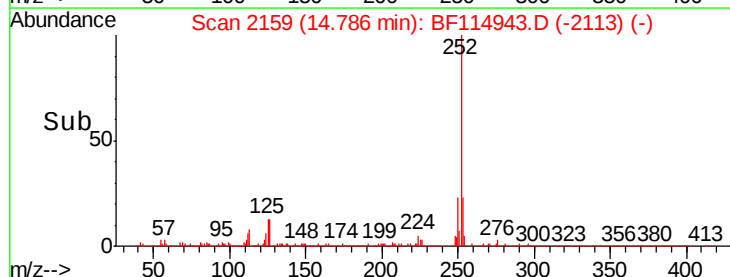
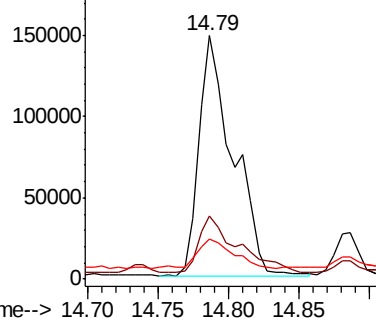


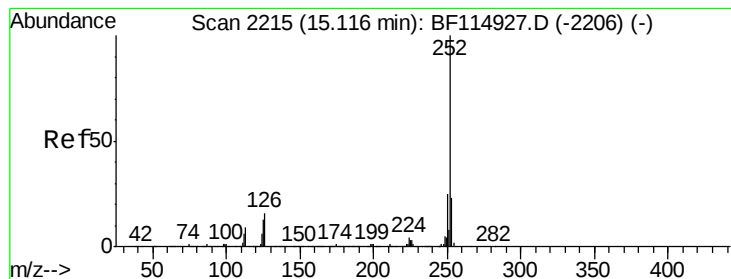
#89  
Benzo(k)fluoranthene  
Concen: 7.088 ng  
RT: 14.79 min Scan# 2159  
Delta R.T. -0.03 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 18.6  | 28.0  |
| 125     | 16.7  | 9.2   | 13.8# |



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





#90

Benzo(a)pyrene

Concen: 3.808 ng

RT: 15.12 min Scan# 2215

Delta R.T. 0.00 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Instrument :

BNA\_F

ClientSampleId :

EO-02-060619-C

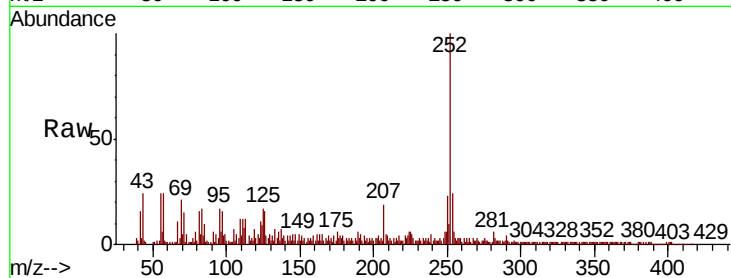
Tot Ion: 252 Resp: 133426

Ion Ratio Lower Upper

252 100

253 24.3 18.2 27.2

125 16.7 10.1 15.1#



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

