

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF053119\  
 Data File : BF114726.D  
 Acq On : 1 Jun 2019 00:07  
 Operator : HP/JU  
 Sample : K3104-10  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RBR-251-688

Quant Time: Jun 01 01:51:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 29 19:08:51 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.69  | 152  | 448500   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.97  | 136  | 1680151  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.72  | 164  | 802218   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.19 | 188  | 1408836  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.82 | 240  | 942093   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.20 | 264  | 875654   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.32  | 112  | 3098281  | 121.29 | ng    | 0.02     |
| 7) Phenol-d6                | 6.34  | 99   | 3777444  | 122.71 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 2433973  | 90.38  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.50 | 330  | 1013501  | 132.59 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.05  | 172  | 3523186  | 81.92  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.78 | 244  | 3101610  | 61.90  | ng    | 0.00     |

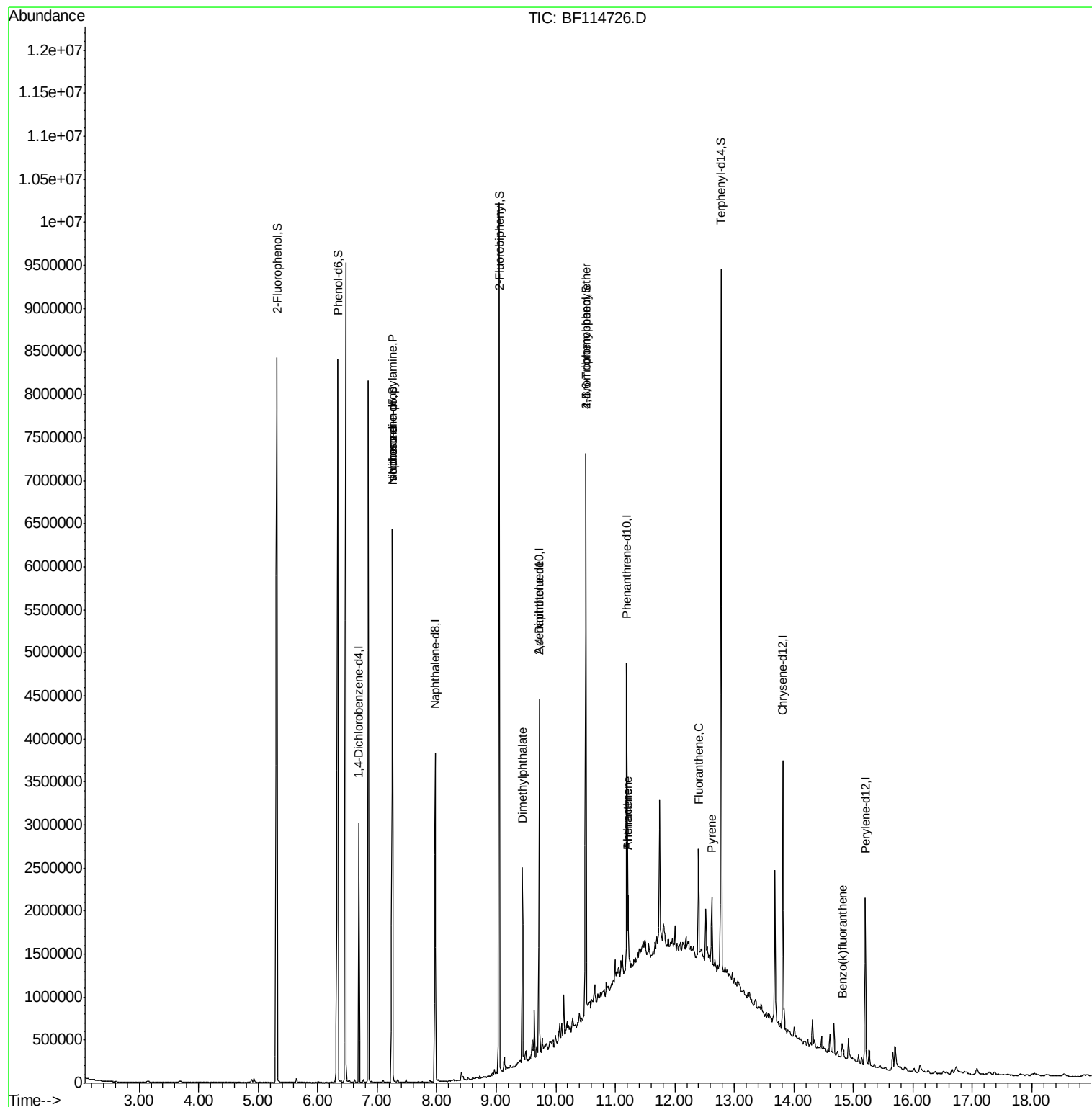
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.34  | 77   | 6897     | Below Cal | #     | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.26  | 70   | 336306   | 15.828 ng | #     | 76     |
| 25) Isophorone                 | 7.26  | 82   | 2346598  | 43.419 ng | #     | 63     |
| 50) Dimethylphthalate          | 9.44  | 163  | 832159   | 14.887 ng |       | 100    |
| 57) 2,4-Dinitrotoluene         | 9.72  | 165  | 107832   | 6.469 ng  | #     | 24     |
| 58) Fluorene                   | 10.26 | 166  | 5288     | Below Cal | #     | 67     |
| 61) 4-Chlorophenyl-phenylether | 10.28 | 204  | 2852     | Below Cal | #     | 28     |
| 67) 4-Bromophenyl-phenylether  | 10.50 | 248  | 64680    | 4.281 ng  | #     | 1      |
| 69) Atrazine                   | 10.90 | 200  | 923      | Below Cal | #     | 1      |
| 71) Phenanthrene               | 11.22 | 178  | 288854   | 4.019 ng  |       | 97     |
| 72) Anthracene                 | 11.22 | 178  | 288854   | 3.971 ng  |       | 98     |
| 74) Di-n-butylphthalate        | 11.77 | 149  | 19962    | Below Cal | #     | 70     |
| 75) Fluoranthene               | 12.40 | 202  | 478446   | 6.429 ng  |       | 97     |
| 78) Pyrene                     | 12.62 | 202  | 316662   | 3.973 ng  |       | 98     |
| 89) Benzo(k)fluoranthene       | 14.81 | 252  | 109040   | 2.275 ng  |       | 95     |

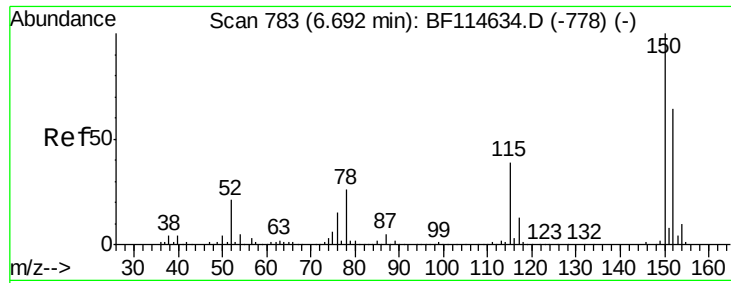
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF053119\  
Data File : BF114726.D  
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Operator : HP/JU  
Sample : K3104-10  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RBR-251-688

Quant Time: Jun 01 01:51:08 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 29 19:08:51 2019  
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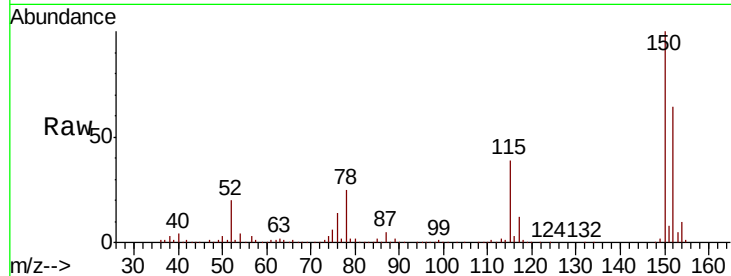


#1

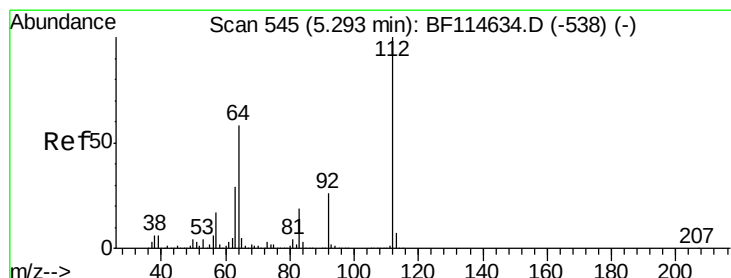
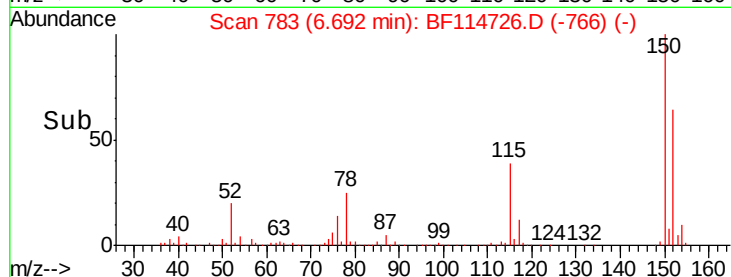
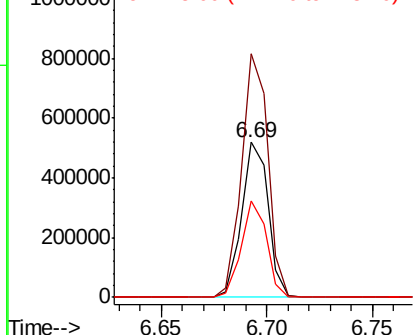
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.69 min Scan# 783  
Delta R.T. -0.00 min  
Lab File: BF114726.D  
Acq: 1 Jun 2019 00:07

Instrument :  
BNA\_F  
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RBR-251-688

Tgt Ion:152 Resp: 448500  
Ion Ratio Lower Upper  
152 100  
150 157.2 124.4 186.6  
115 61.9 48.7 73.1



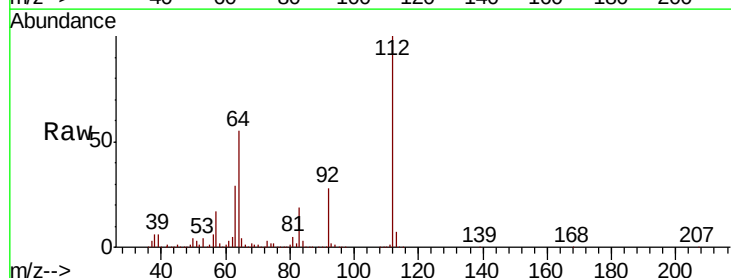
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



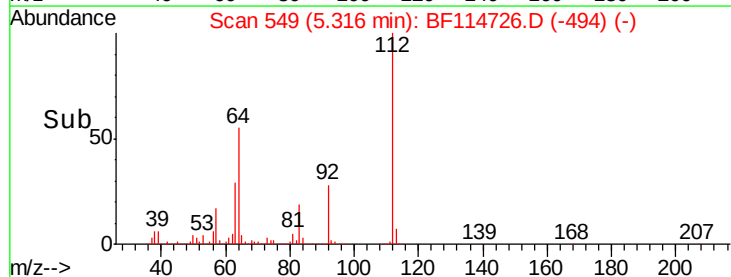
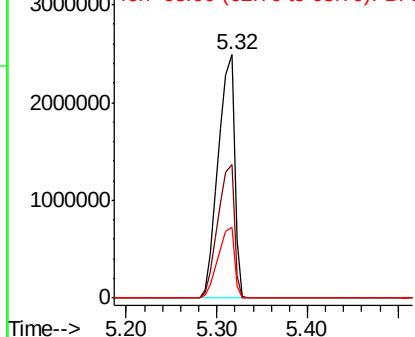
#5

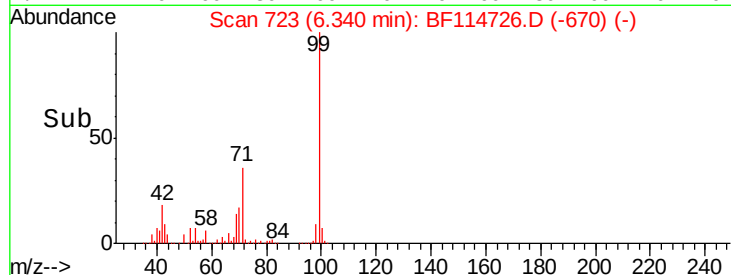
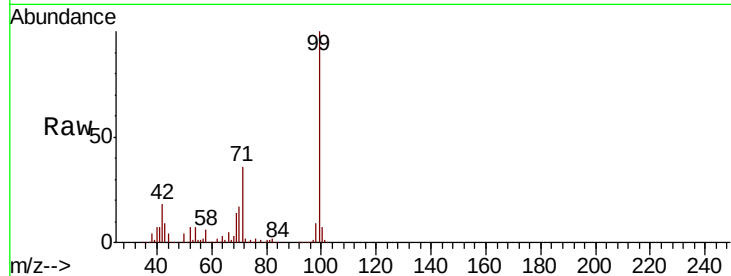
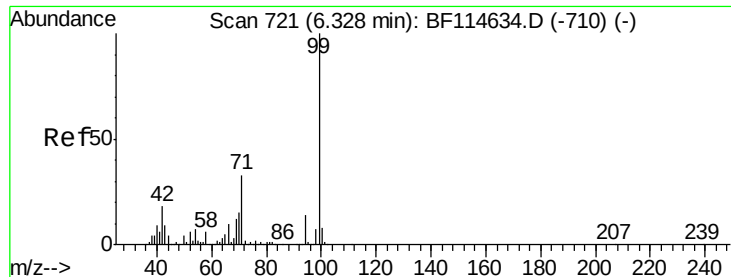
2-Fluorophenol  
Concen: 121.286 ng  
RT: 5.32 min Scan# 549  
Delta R.T. 0.02 min  
Lab File: BF114726.D  
Acq: 1 Jun 2019 00:07

Tgt Ion:112 Resp: 3098281  
Ion Ratio Lower Upper  
112 100  
64 54.9 46.1 69.1  
63 29.1 23.4 35.2



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: 122.712 ng

RT: 6.34 min Scan# 723

Delta R.T. 0.01 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

Instrument :

BNA\_F

ClientSampleId :

RBR-251-688

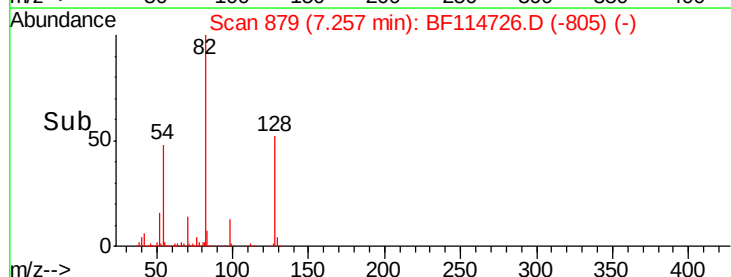
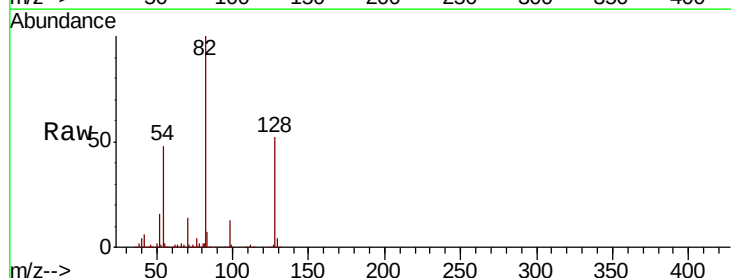
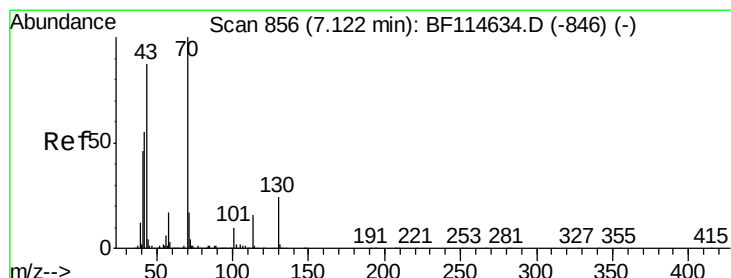
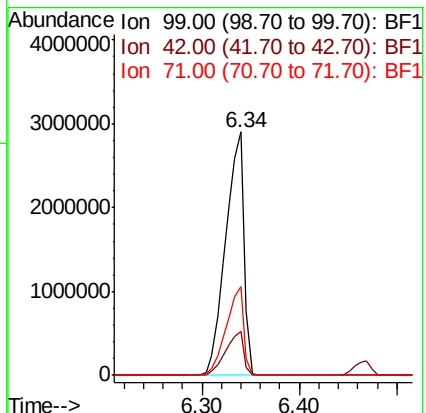
Tgt Ion: 99 Resp: 3777444

Ion Ratio Lower Upper

99 100

42 18.1 14.7 22.1

71 36.3 26.6 40.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.828 ng

RT: 7.26 min Scan# 879

Delta R.T. 0.14 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

Tgt Ion: 70 Resp: 336306

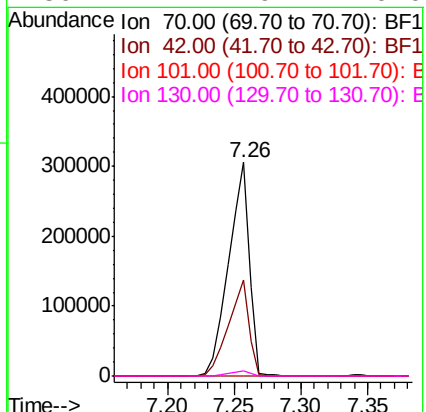
Ion Ratio Lower Upper

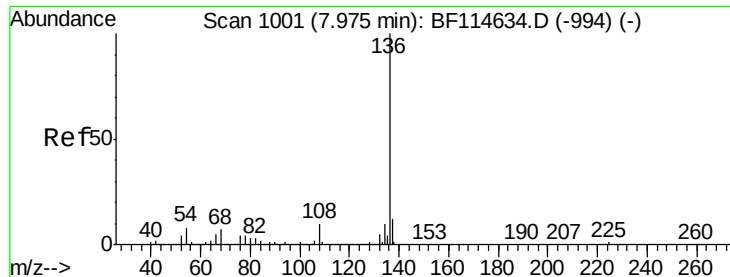
70 100

42 44.8 44.4 66.6

101 0.0 8.2 12.4#

130 2.7 19.4 29.0#

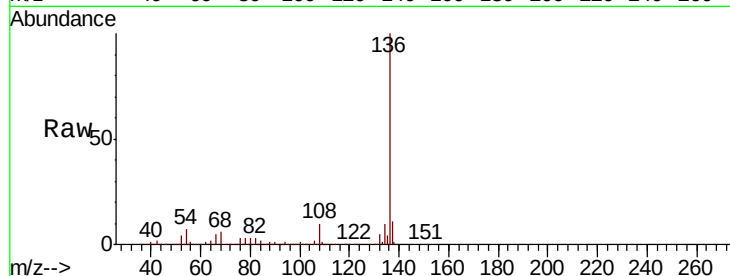




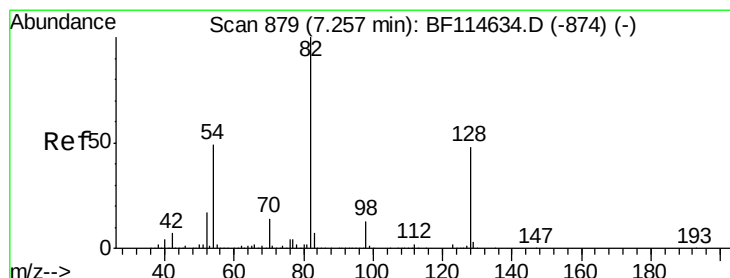
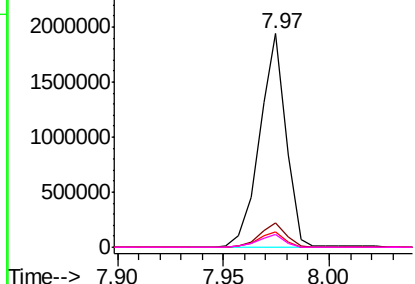
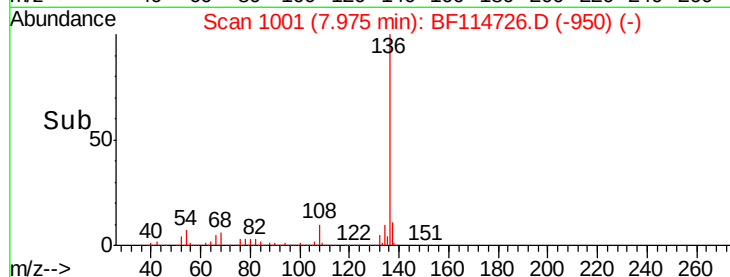
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.97 min Scan# 1001  
Delta R.T. -0.00 min  
Lab File: BF114726.D  
Acq: 1 Jun 2019 00:07

Instrument :  
BNA\_F  
ClientSampleId :  
RBR-251-688

| Tgt Ion: | 136   | Resp: | 1680151 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 136      | 100   |       |         |
| 137      | 11.5  | 9.3   | 13.9    |
| 54       | 6.9   | 6.3   | 9.5     |
| 68       | 5.8   | 5.4   | 8.0     |

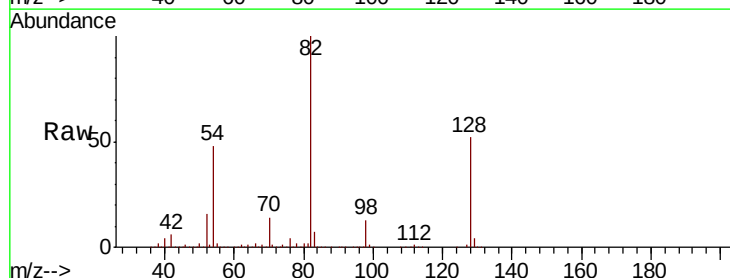


Abundance Ion 136.00 (135.70 to 136.70): E  
3000000  
Ion 137.00 (136.70 to 137.70): E  
2500000  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

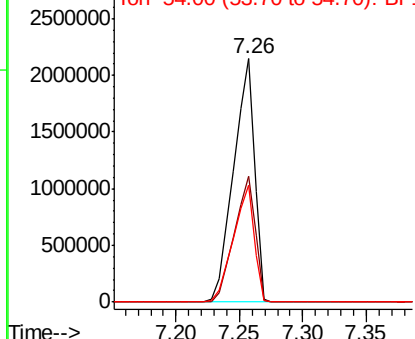
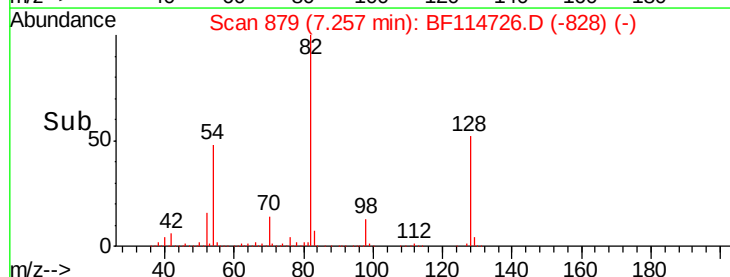


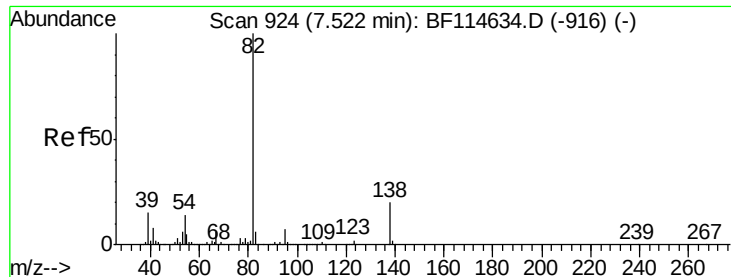
#23  
Nitrobenzene-d5  
Concen: 90.381 ng  
RT: 7.26 min Scan# 879  
Delta R.T. -0.00 min  
Lab File: BF114726.D  
Acq: 1 Jun 2019 00:07

| Tgt Ion: | 82    | Resp: | 2433973 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 51.6  | 38.5  | 57.7    |
| 54       | 47.9  | 39.1  | 58.7    |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
3000000  
Ion 128.00 (127.70 to 128.70): E  
2500000  
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 43.419 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.26 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

Instrument :

BNA\_F

ClientSampleId :

RBR-251-688

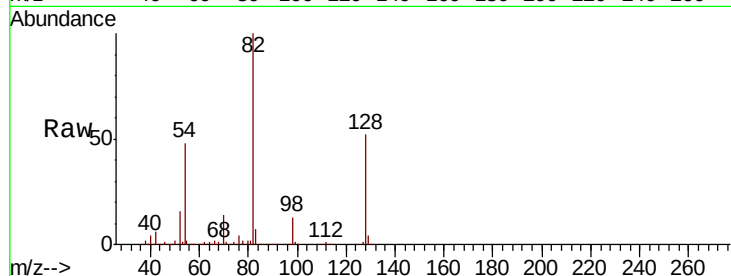
Tgt Ion: 82 Resp: 2346598

Ion Ratio Lower Upper

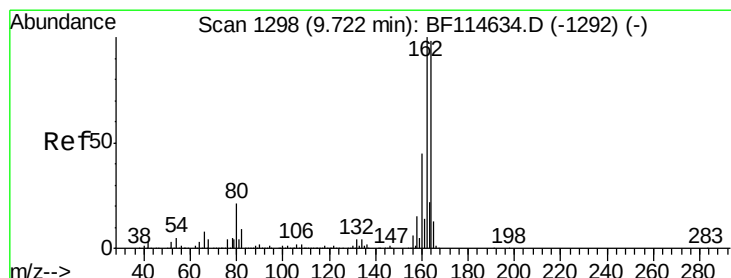
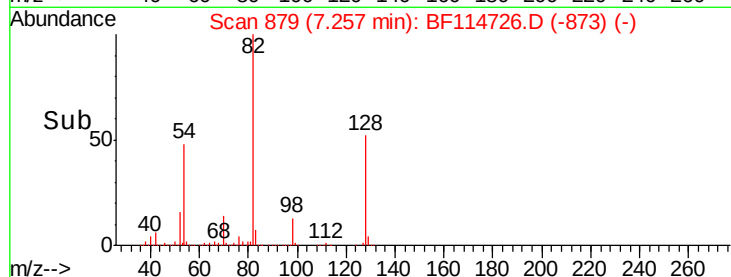
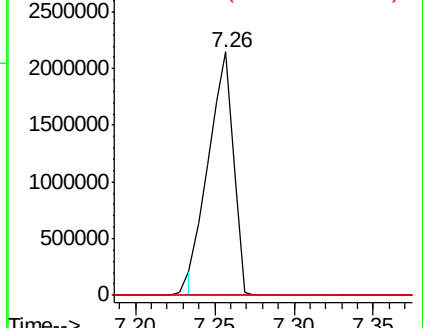
82 100

95 0.0 5.6 8.4#

138 0.0 15.9 23.9#



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: 9.72 min Scan# 1298

Delta R.T. -0.00 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

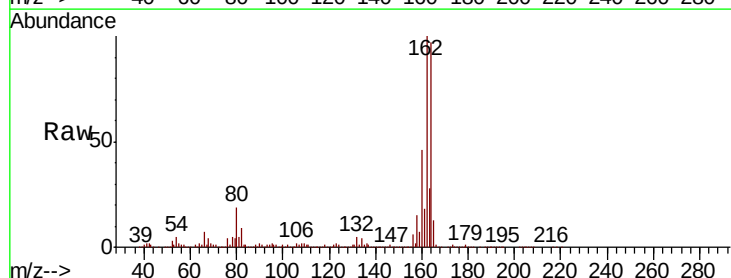
Tgt Ion: 164 Resp: 802218

Ion Ratio Lower Upper

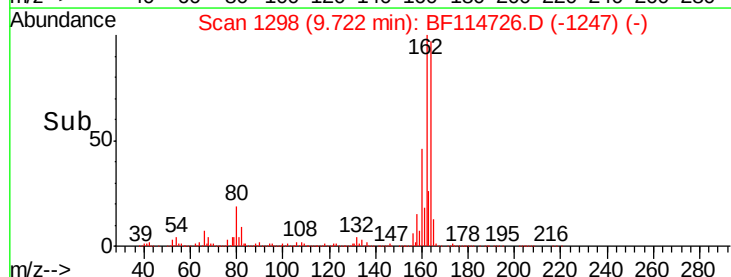
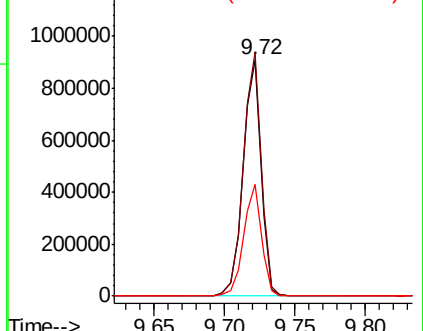
164 100

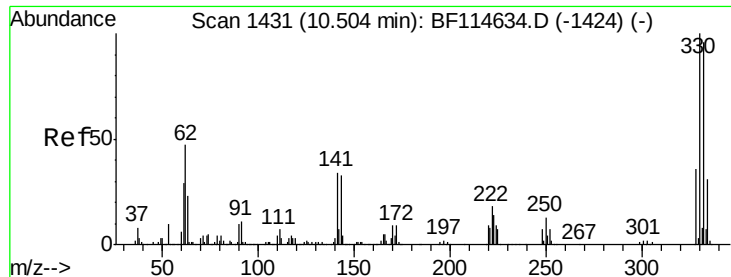
162 103.0 81.4 122.2

160 47.1 36.6 54.8



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

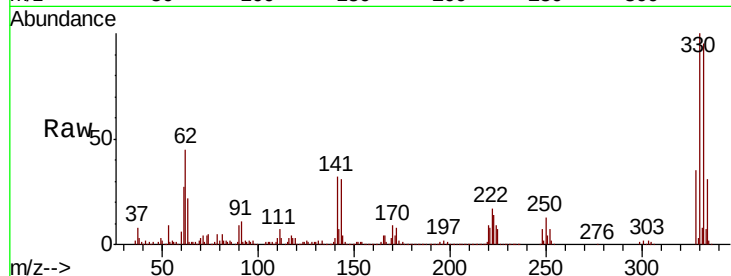




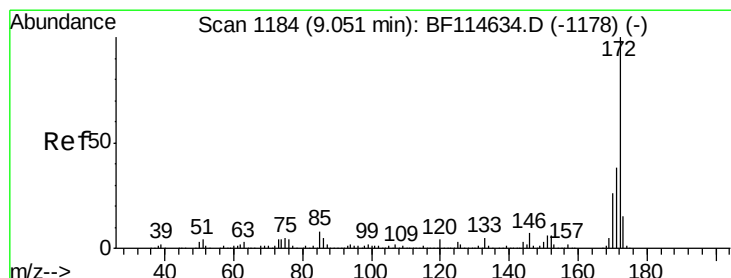
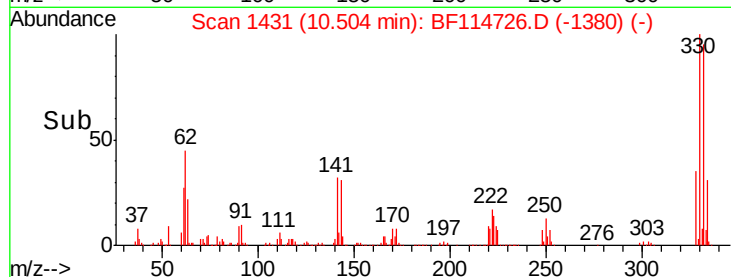
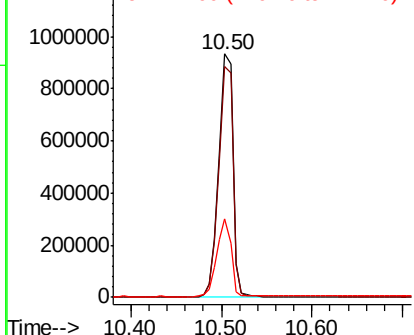
#42  
 2,4,6-Tribromophenol  
 Concen: 132.590 ng  
 RT: 10.50 min Scan# 1431  
 Delta R.T. -0.00 min  
 Lab File: BF114726.D  
 Acq: 1 Jun 2019 00:07

Instrument :  
 BNA\_F  
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 RBR-251-688

Tgt Ion:330 Resp: 1013501  
 Ion Ratio Lower Upper  
 330 100  
 332 95.6 75.8 113.8  
 141 31.5 27.8 41.8

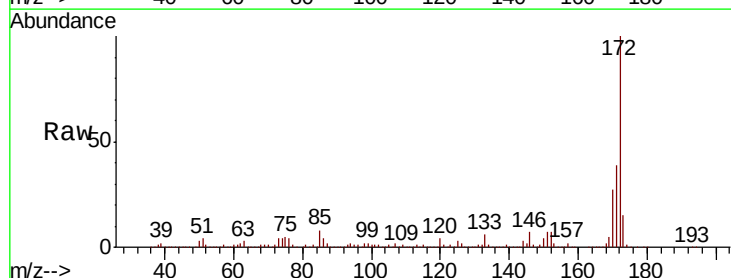


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

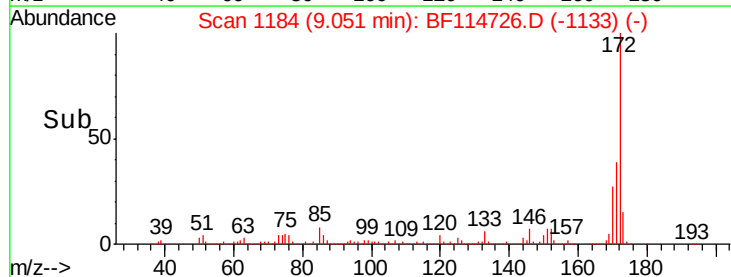
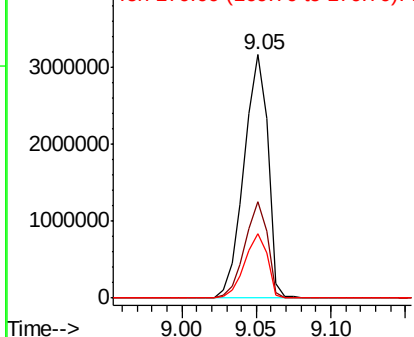


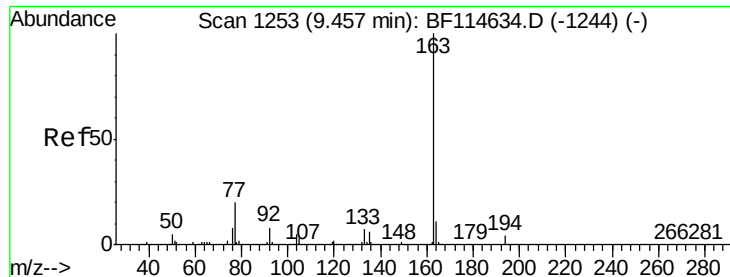
#45  
 2-Fluorobiphenyl  
 Concen: 81.919 ng  
 RT: 9.05 min Scan# 1184  
 Delta R.T. 0.00 min  
 Lab File: BF114726.D  
 Acq: 1 Jun 2019 00:07

Tgt Ion:172 Resp: 3523186  
 Ion Ratio Lower Upper  
 172 100  
 171 39.5 30.6 45.8  
 170 26.7 20.7 31.1



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: 14.887 ng

RT: 9.44 min Scan# 1250

Delta R.T. -0.02 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

Instrument :

BNA\_F

ClientSampleId :

RBR-251-688

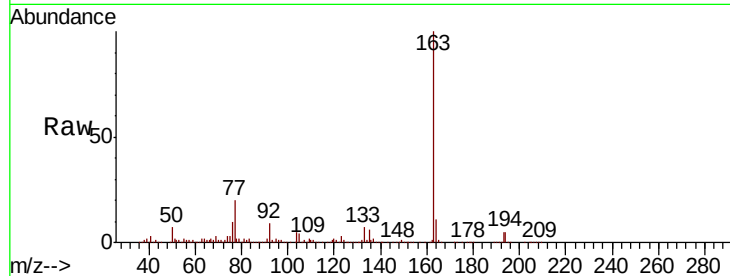
Tgt Ion:163 Resp: 832159

Ion Ratio Lower Upper

163 100

194 4.5 3.4 5.0

164 10.7 8.6 13.0

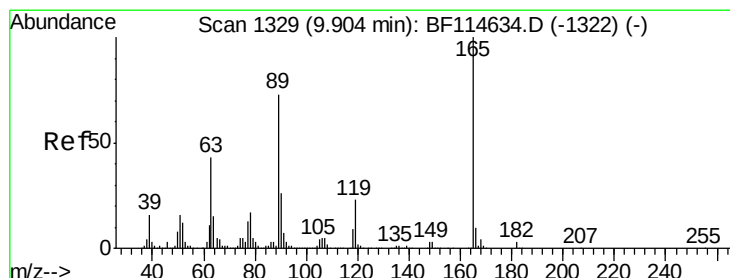
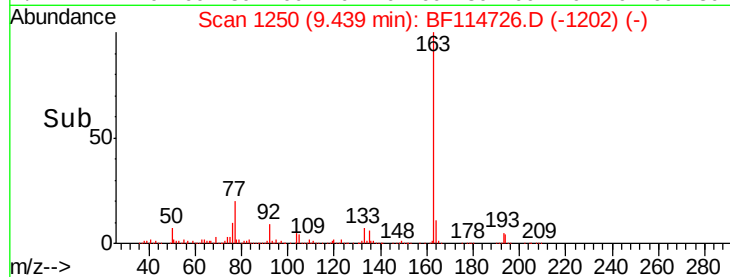
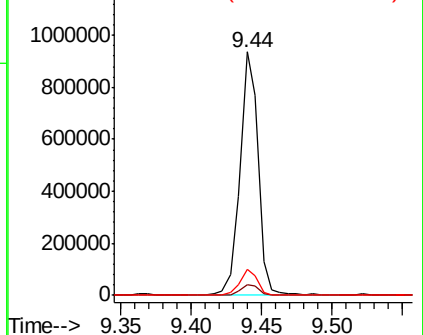


Abundance

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



#57

2,4-Dinitrotoluene

Concen: 6.469 ng

RT: 9.72 min Scan# 1298

Delta R.T. -0.18 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

Tgt Ion:165 Resp: 107832

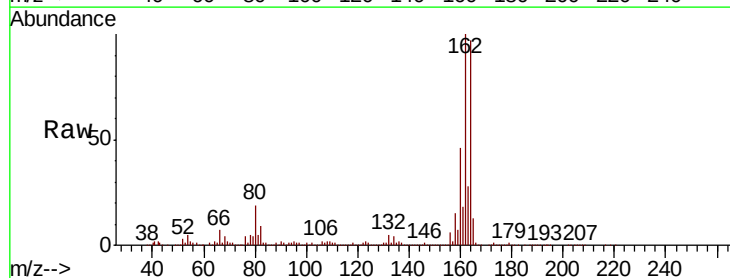
Ion Ratio Lower Upper

165 100

63 1.5 34.8 52.2#

89 1.6 58.5 87.7#

182 0.3 2.2 3.2#



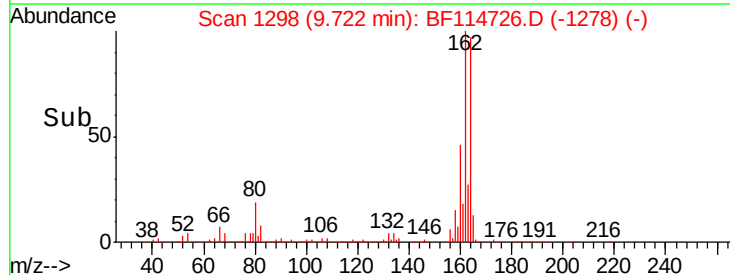
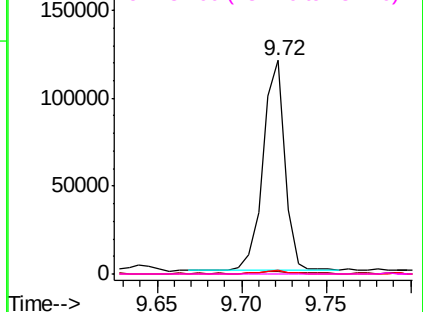
Abundance

Ion 165.00 (164.70 to 165.70): E

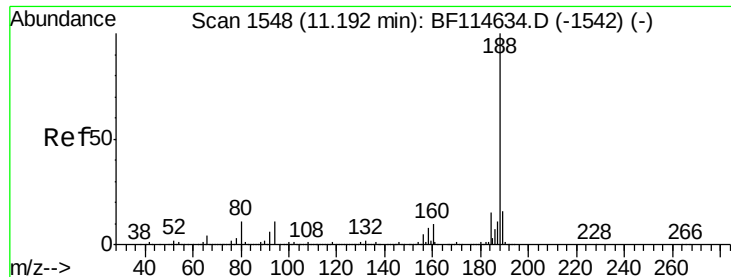
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.19 min Scan# 1548

Delta R.T. -0.00 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

Instrument :

BNA\_F

ClientSampleId :

RBR-251-688

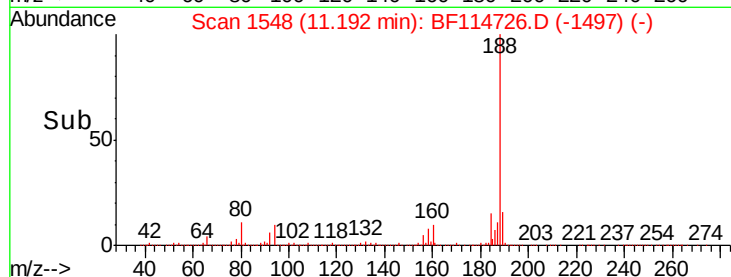
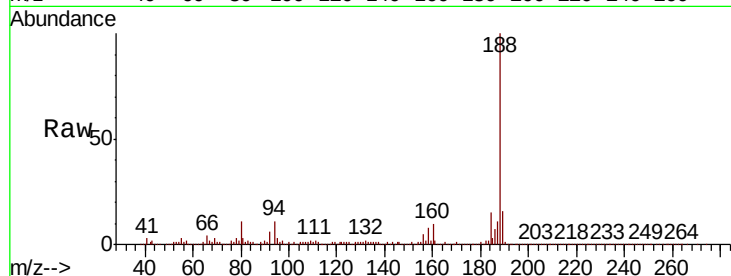
Tgt Ion:188 Resp: 1408836

Ion Ratio Lower Upper

188 100

94 10.6 8.6 13.0

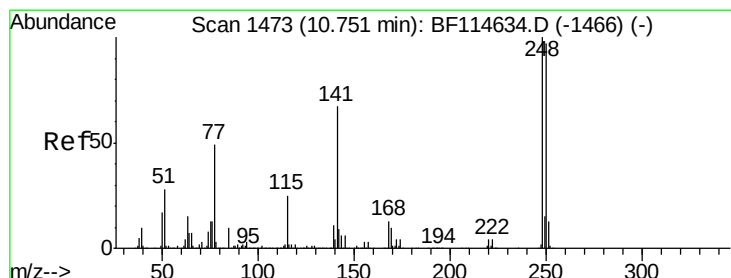
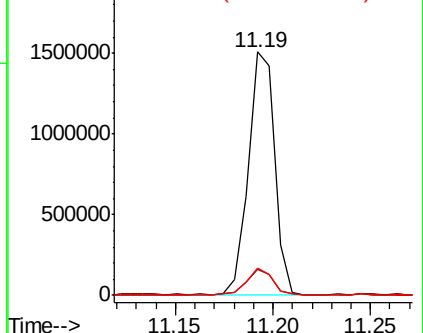
80 11.3 9.0 13.6



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



#67

4-Bromophenyl-phenylether

Concen: 4.281 ng

RT: 10.50 min Scan# 1431

Delta R.T. -0.25 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

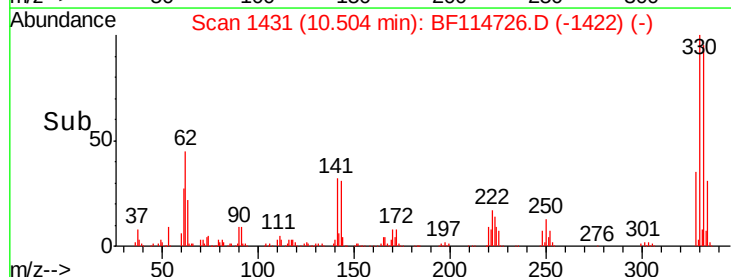
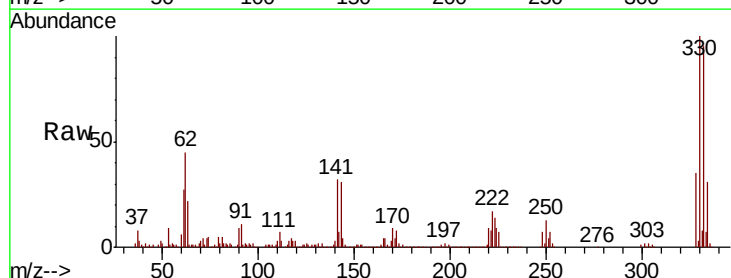
Tgt Ion:248 Resp: 64680

Ion Ratio Lower Upper

248 100

250 185.1 78.0 117.0#

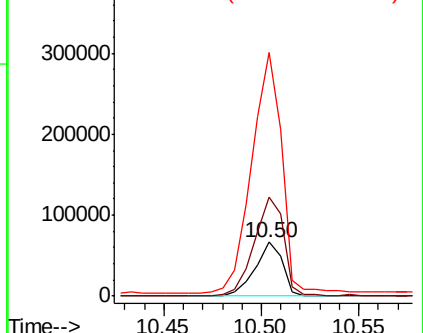
141 452.9 53.8 80.8#

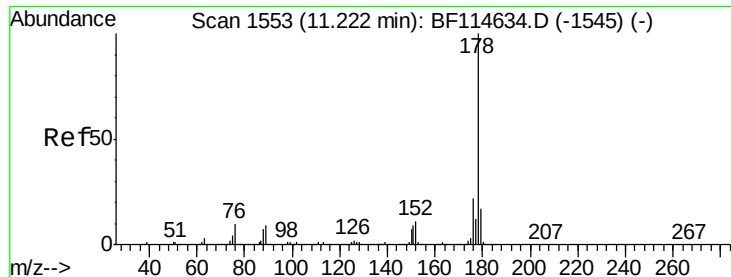


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

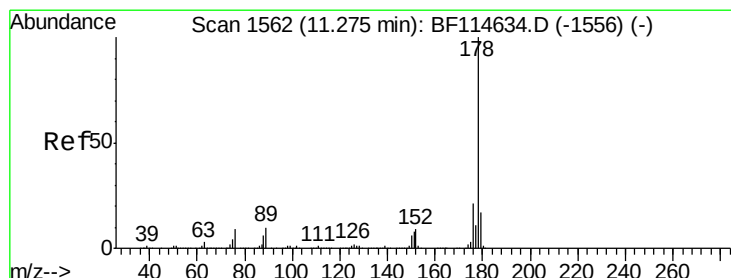
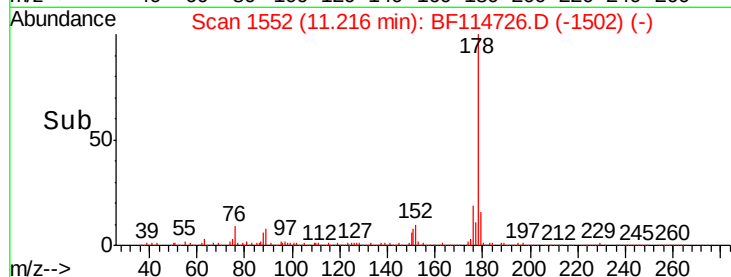
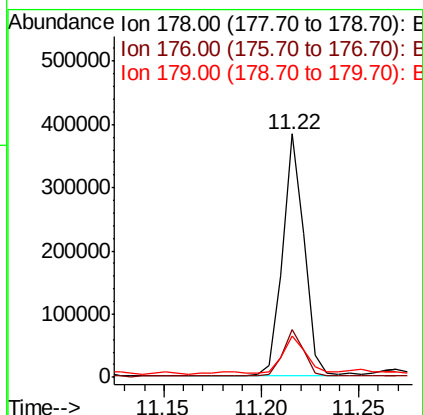
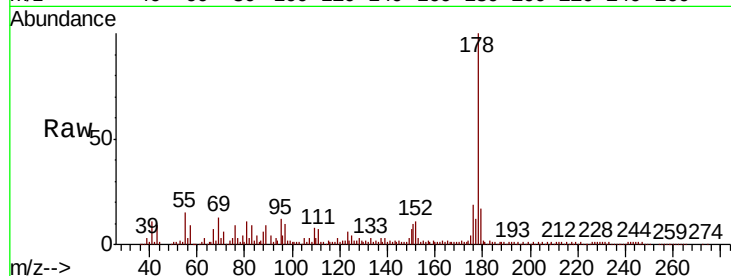




#71  
Phenanthrene  
Concen: 4.019 ng  
RT: 11.22 min Scan# 1552  
Delta R.T. -0.01 min  
Lab File: BF114726.D  
Acq: 1 Jun 2019 00:07

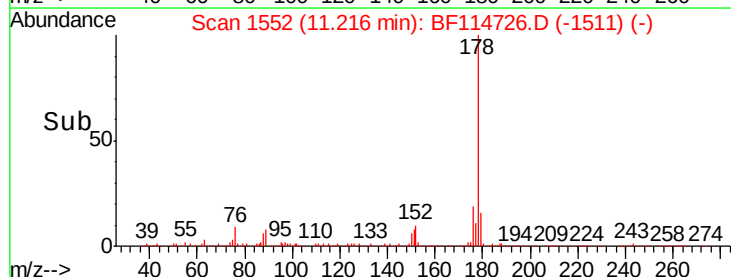
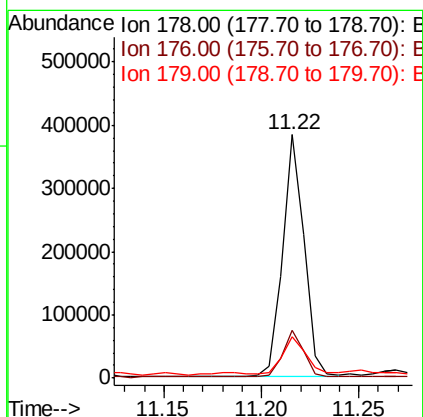
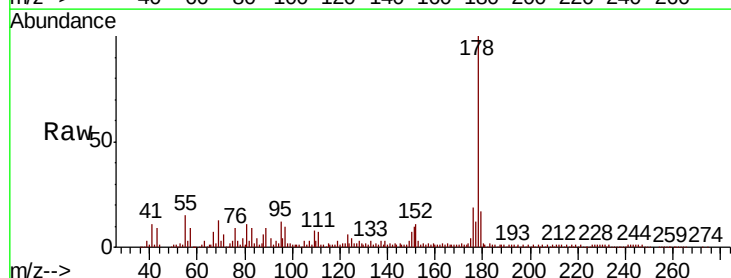
Instrument :  
BNA\_F  
ClientSampleId :  
RBR-251-688

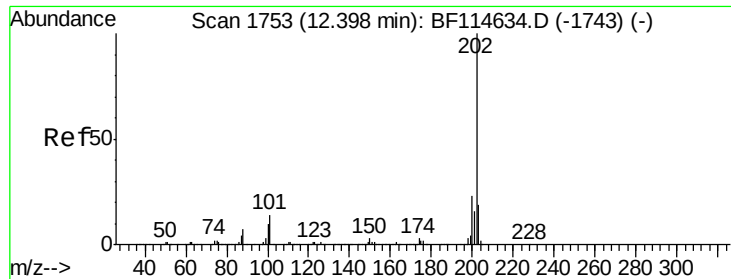
Tgt Ion:178 Resp: 288854  
Ion Ratio Lower Upper  
178 100  
176 19.4 17.2 25.8  
179 17.0 13.9 20.9



#72  
Anthracene  
Concen: 3.971 ng  
RT: 11.22 min Scan# 1552  
Delta R.T. -0.06 min  
Lab File: BF114726.D  
Acq: 1 Jun 2019 00:07

Tgt Ion:178 Resp: 288854  
Ion Ratio Lower Upper  
178 100  
176 19.4 16.6 24.8  
179 17.0 13.4 20.0





#75

Fluoranthene

Concen: 6.429 ng

RT: 12.40 min Scan# 1753

Delta R.T. 0.00 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

Instrument :

BNA\_F

ClientSampleId :

RBR-251-688

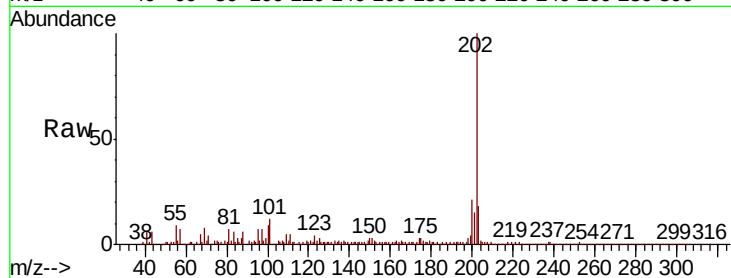
Tgt Ion:202 Resp: 478446

Ion Ratio Lower Upper

202 100

101 11.7 0.0 33.9

203 18.2 0.0 39.1

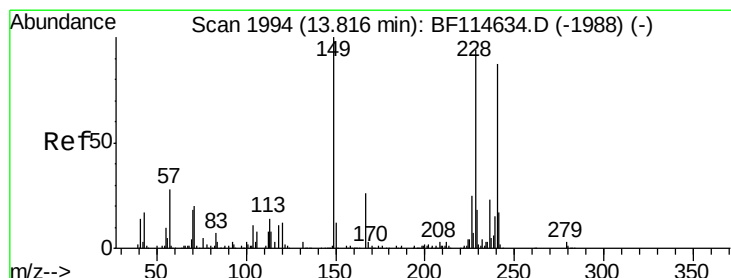
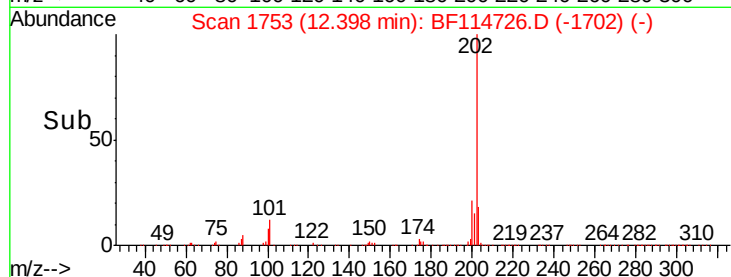
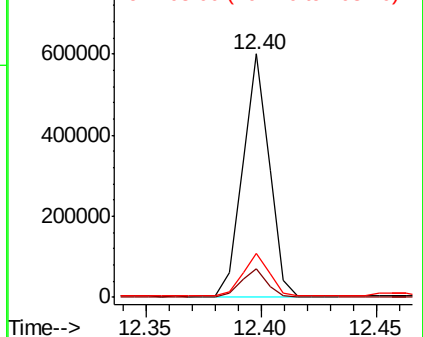


Abundance

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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.82 min Scan# 1994

Delta R.T. -0.00 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

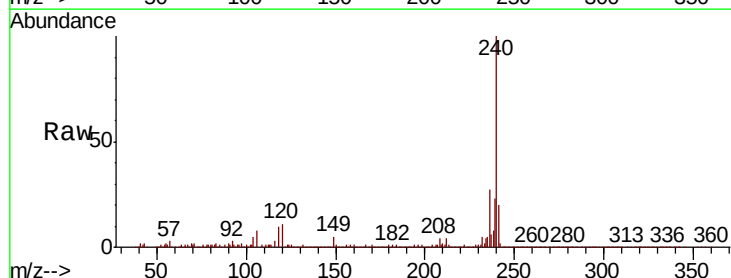
Tgt Ion:240 Resp: 942093

Ion Ratio Lower Upper

240 100

120 11.5 11.2 16.8

236 27.3 21.2 31.8

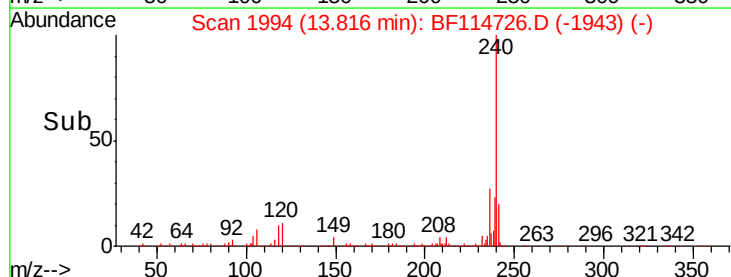
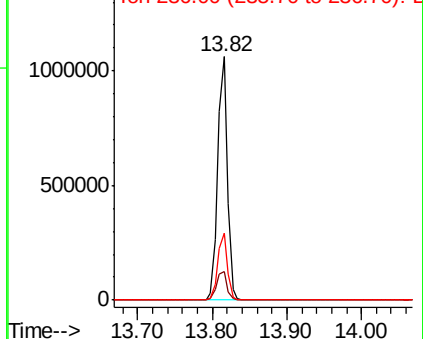


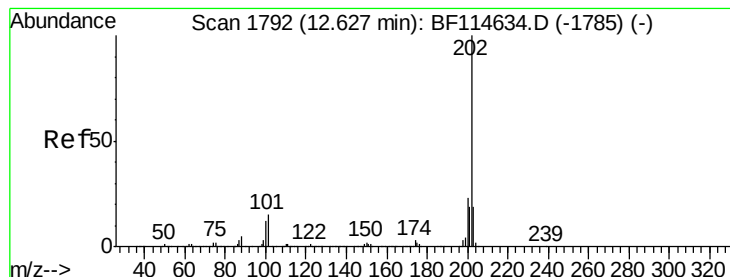
Abundance

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

Pyrene

Concen: 3.973 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

Instrument :

BNA\_F

ClientSampleId :

RBR-251-688

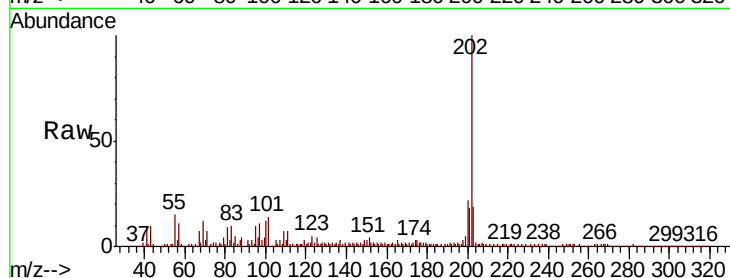
Tgt Ion:202 Resp: 316662

Ion Ratio Lower Upper

202 100

200 22.0 18.6 28.0

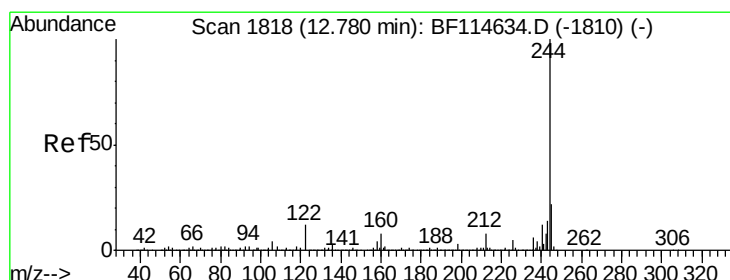
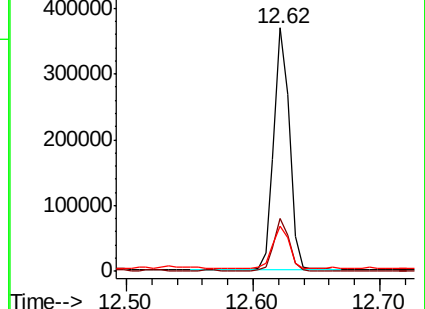
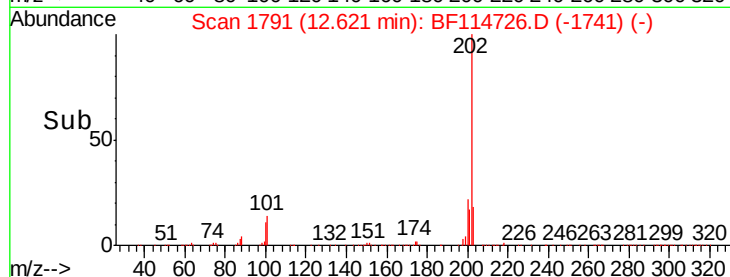
203 18.8 15.4 23.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 61.899 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: BF114726.D

Acq: 1 Jun 2019 00:07

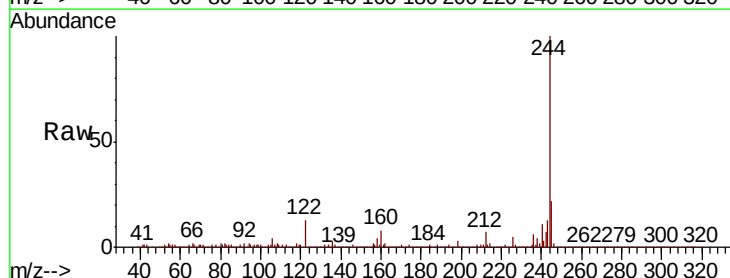
Tgt Ion:244 Resp: 3101610

Ion Ratio Lower Upper

244 100

212 7.4 6.1 9.1

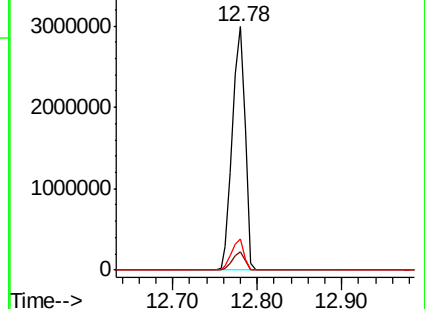
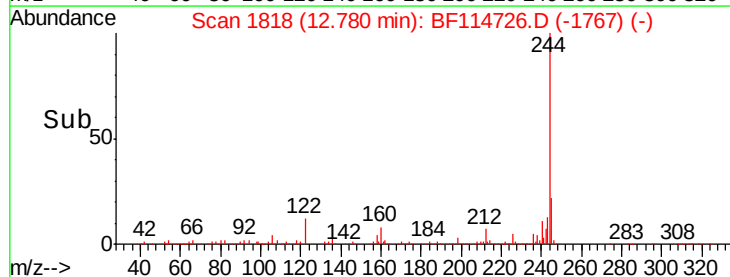
122 12.6 9.8 14.8

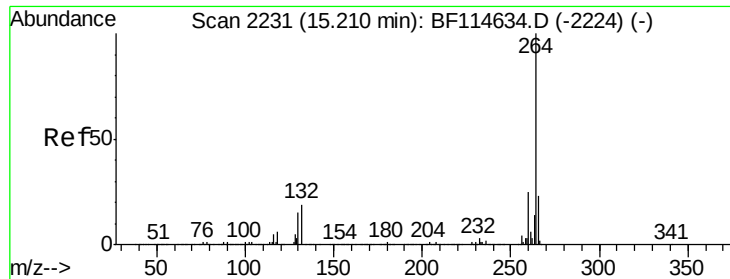


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

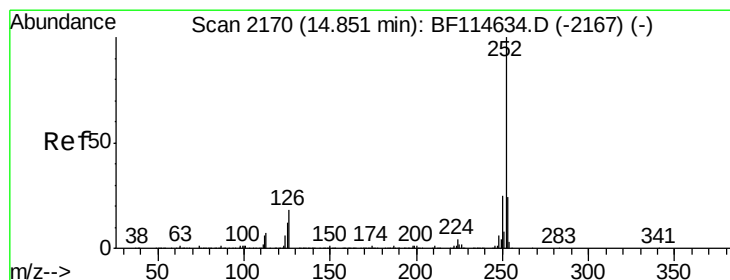
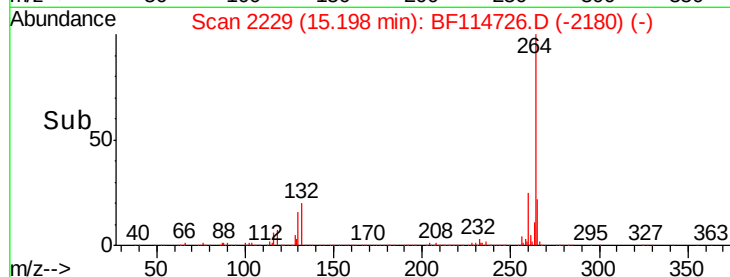
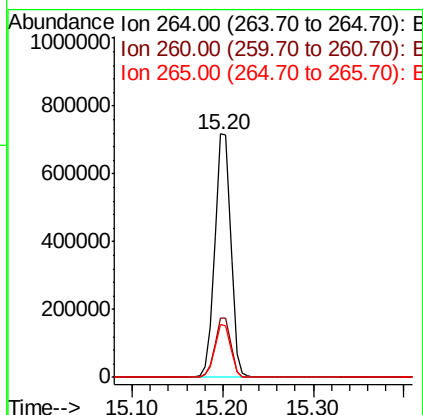
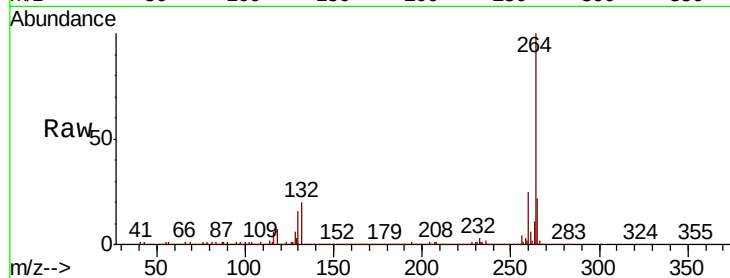




#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.20 min Scan# 2229  
Delta R.T. -0.01 min  
Lab File: BF114726.D  
Acq: 1 Jun 2019 00:07

Instrument :  
BNA\_F  
ClientSampleId :  
RBR-251-688

Tgt Ion:264 Resp: 875654  
Ion Ratio Lower Upper  
264 100  
260 24.6 19.7 29.5  
265 21.9 18.1 27.1



#89  
Benzo(k)fluoranthene  
Concen: 2.275 ng  
RT: 14.81 min Scan# 2163  
Delta R.T. -0.04 min  
Lab File: BF114726.D  
Acq: 1 Jun 2019 00:07

Tgt Ion:252 Resp: 109040  
Ion Ratio Lower Upper  
252 100  
253 21.7 18.9 28.3  
125 14.1 9.5 14.3

