

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121817\  
 Data File : BF101482.D  
 Acq On : 18 Dec 2017 15:58  
 Operator : SJ/JU  
 Sample : I6675-07 2X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-121517

Quant Time: Dec 19 01:21:55 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 18 15:38:59 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 181730   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 676511   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.85  | 164  | 273474   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.34 | 188  | 431467   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.99 | 240  | 336015   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.46 | 264  | 302980   | 20.00 | ng    | 0.01     |

|                             |       |     |        |       |    |      |
|-----------------------------|-------|-----|--------|-------|----|------|
| System Monitoring Compounds |       |     |        |       |    |      |
| 5) 2-Fluorophenol           | 5.42  | 112 | 499181 | 40.92 | ng | 0.00 |
| 7) Phenol-d6                | 6.45  | 99  | 598980 | 39.45 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.37  | 82  | 343622 | 28.27 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.64 | 330 | 98415  | 37.35 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.16  | 172 | 611559 | 34.69 | ng | 0.00 |
| 78) Terphenyl-d14           | 12.93 | 244 | 410012 | 29.42 | ng | 0.00 |

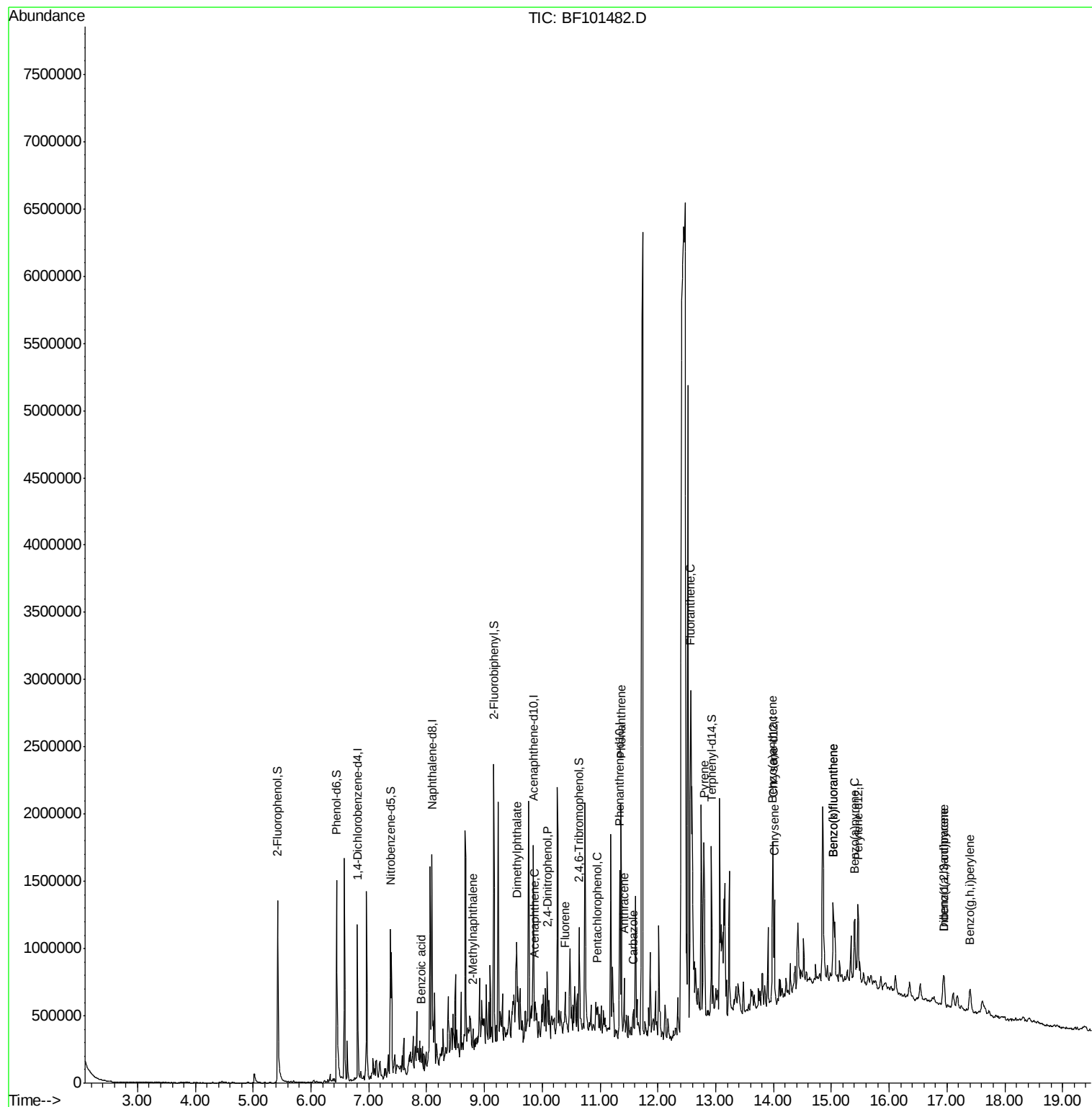
|                            |       |     |        |       |    |        |
|----------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds           |       |     |        |       |    | Qvalue |
| 32) Benzoic acid           | 7.90  | 122 | 116    | 7.98  | ng | # 1    |
| 37) 2-Methylnaphthalene    | 8.80  | 142 | 45503  | 2.05  | ng | 99     |
| 49) Dimethylphthalate      | 9.56  | 163 | 70307  | 3.20  | ng | # 98   |
| 51) Acenaphthene           | 9.88  | 154 | 43814  | 2.49  | ng | 98     |
| 53) 2,4-Dinitrophenol      | 10.09 | 184 | 339    | 10.51 | ng | # 1    |
| 57) Fluorene               | 10.40 | 166 | 70264  | 3.71  | ng | # 98   |
| 69) Pentachlorophenol      | 10.95 | 266 | 106    | 6.61  | ng | # 19   |
| 70) Phenanthrene           | 11.36 | 178 | 572659 | 23.87 | ng | 99     |
| 71) Anthracene             | 11.42 | 178 | 167615 | 6.84  | ng | 99     |
| 72) Carbazole              | 11.57 | 167 | 65286  | 2.85  | ng | 99     |
| 74) Fluoranthene           | 12.56 | 202 | 677545 | 26.90 | ng | 98     |
| 77) Pyrene                 | 12.80 | 202 | 692062 | 27.44 | ng | 99     |
| 80) Benzo(a)anthracene     | 13.98 | 228 | 341169 | 15.38 | ng | 98     |
| 82) Chrysene               | 14.02 | 228 | 289912 | 13.84 | ng | 99     |
| 85) Indeno(1,2,3-cd)pyrene | 16.95 | 276 | 140815 | 7.55  | ng | # 91   |
| 87) Benzo(b)fluoranthene   | 15.03 | 252 | 452425 | 24.50 | ng | 96     |
| 88) Benzo(k)fluoranthene   | 15.03 | 252 | 452275 | 25.19 | ng | 99     |
| 89) Benzo(a)pyrene         | 15.40 | 252 | 254148 | 14.93 | ng | 96     |
| 90) Dibenzo(a,h)anthracene | 16.94 | 278 | 34014  | 2.33  | ng | # 74   |
| 91) Benzo(a,h,i)perylene   | 17.40 | 276 | 139723 | 9.65  | ng | 95     |

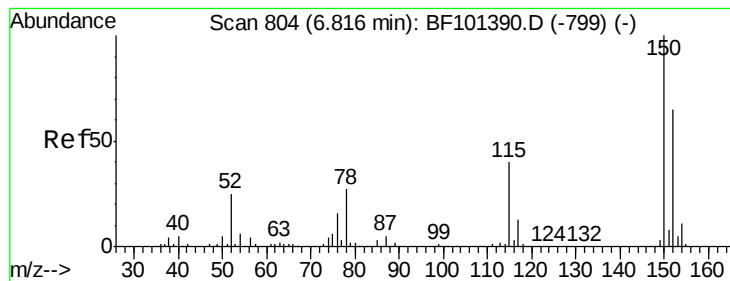
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121817\  
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Quant Time: Dec 19 01:21:55 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 18 15:38:59 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 802

Delta R.T. -0.01 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

Instrument :

BNA\_F

ClientSampleId :

SU-04-121517

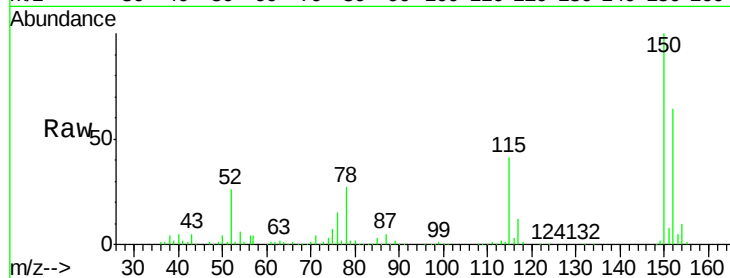
Tot Ion:152 Resp: 181730

Ion Ratio Lower Upper

152 100

150 156.0 124.6 186.8

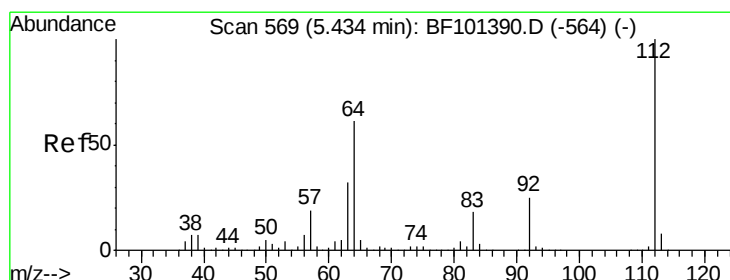
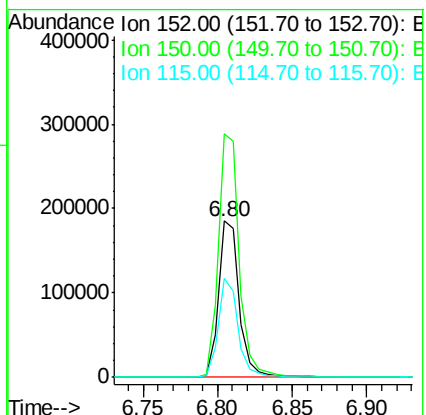
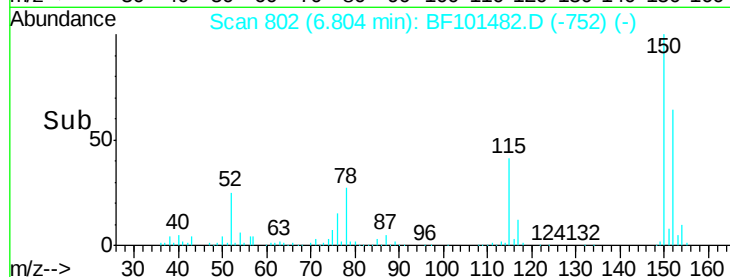
115 63.8 50.1 75.1



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: 40.92 ng

RT: 5.42 min Scan# 567

Delta R.T. 0.00 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

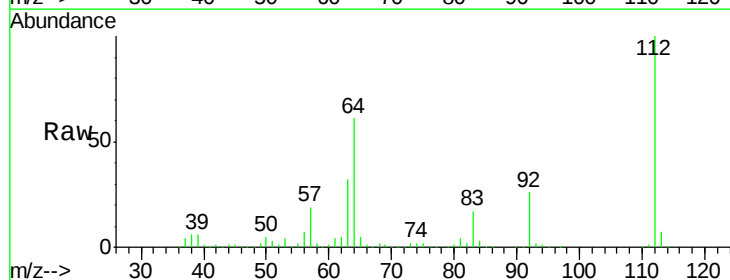
Tgt Ion:112 Resp: 499181

Ion Ratio Lower Upper

112 100

64 61.4 47.9 71.9

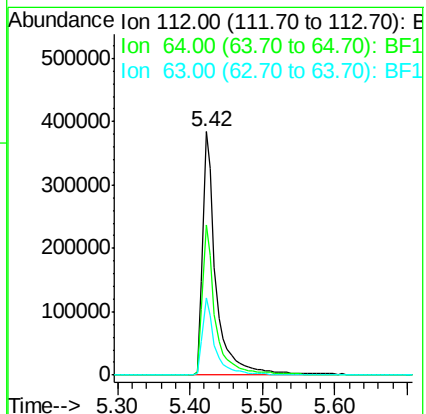
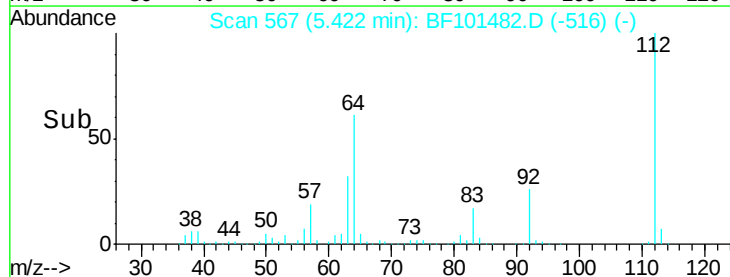
63 31.8 23.7 35.5

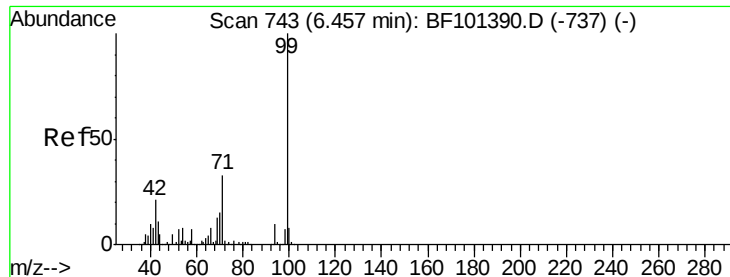


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 39.45 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

Instrument :

BNA\_F

ClientSampleId :

SU-04-121517

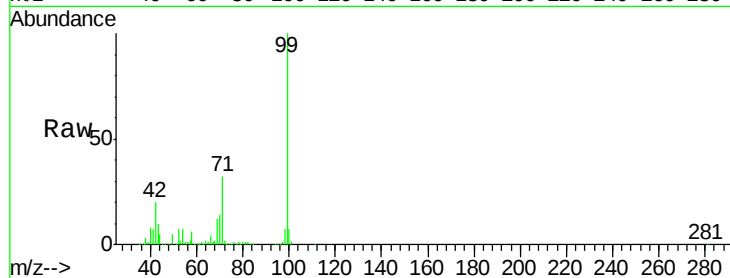
Tot Ion: 99 Resp: 598980

Ion Ratio Lower Upper

99 100

42 19.5 14.5 21.7

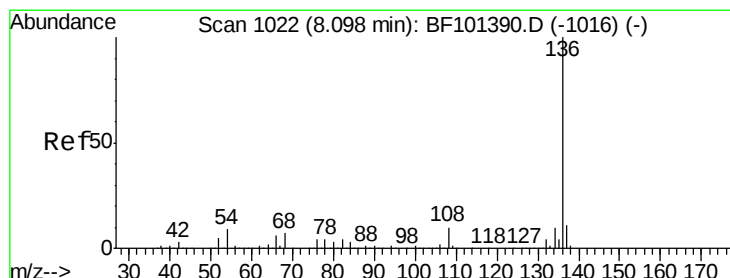
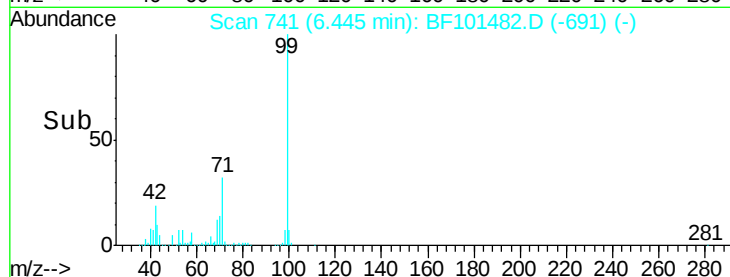
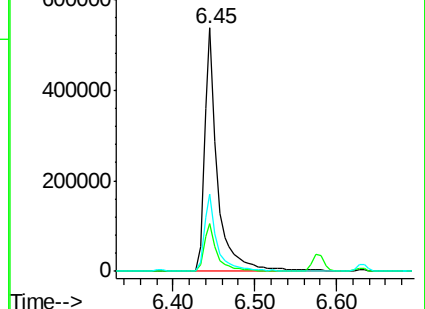
71 31.7 25.4 38.0



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: 20.00 ng

RT: 8.09 min Scan# 1021

Delta R.T. 0.00 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

Tgt Ion: 136 Resp: 676511

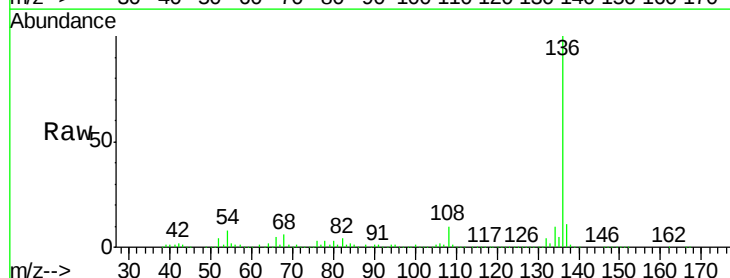
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 8.4 6.6 9.8

68 6.3 5.0 7.4

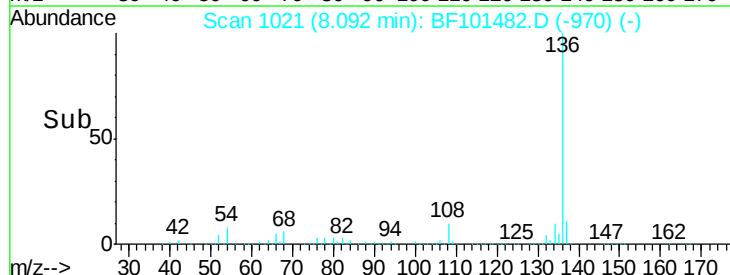
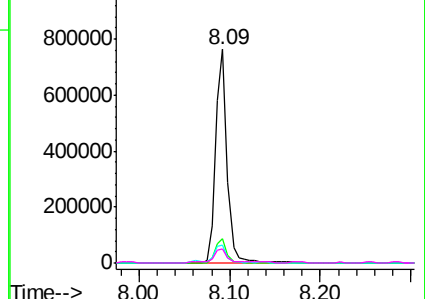


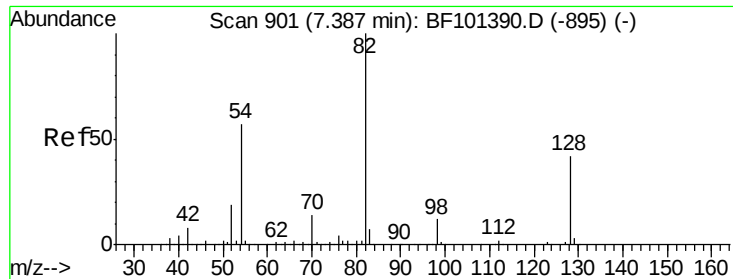
Abundance Ion 136.00 (135.70 to 136.70): E

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

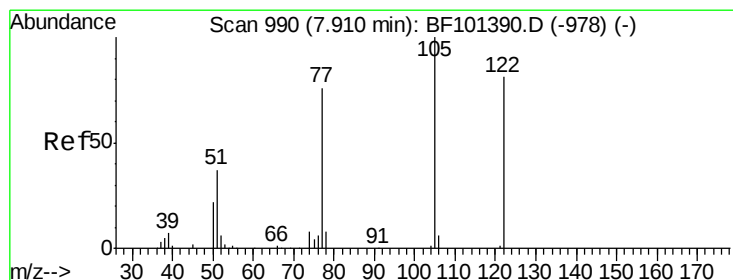
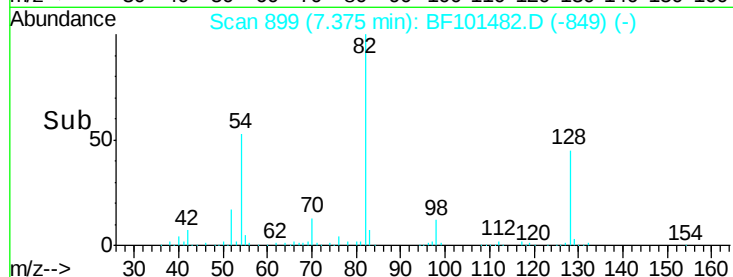
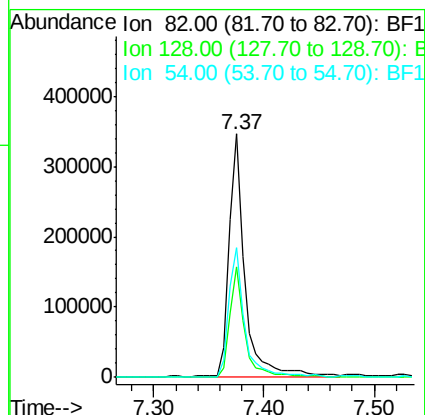
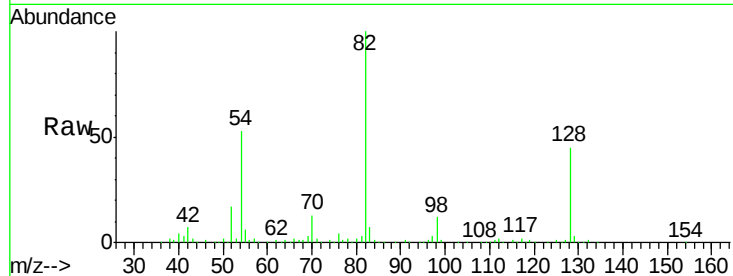




#23  
Nitrobenzene-d5  
Concen: 28.27 ng  
RT: 7.37 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

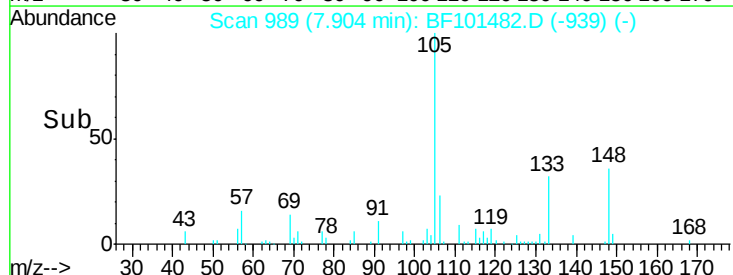
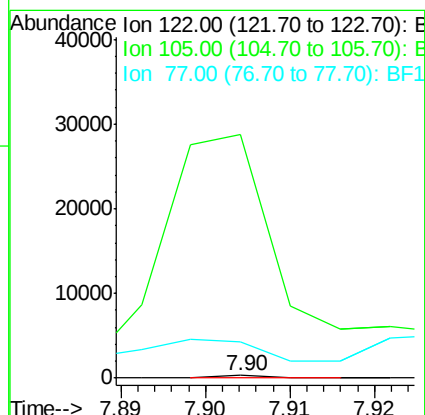
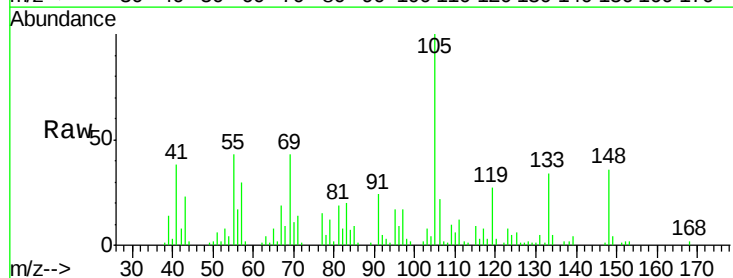
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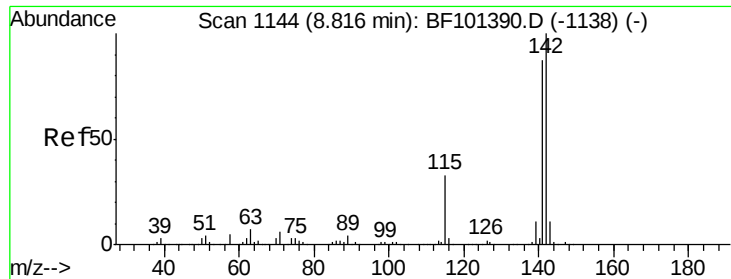
Tot Ion: 82 Resp: 343622  
Ion Ratio Lower Upper  
82 100  
128 45.3 36.1 54.1  
54 53.3 41.4 62.2



#32  
Benzoic acid  
Concen: 7.98 ng  
RT: 7.90 min Scan# 989  
Delta R.T. -0.01 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

Tgt Ion: 122 Resp: 116  
Ion Ratio Lower Upper  
122 100  
105 8768.3 101.1 141.1#  
77 1295.4 70.7 110.7#

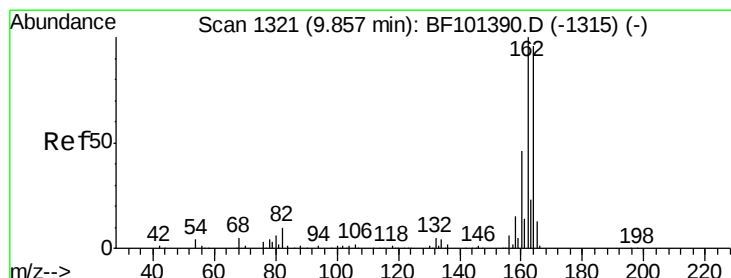
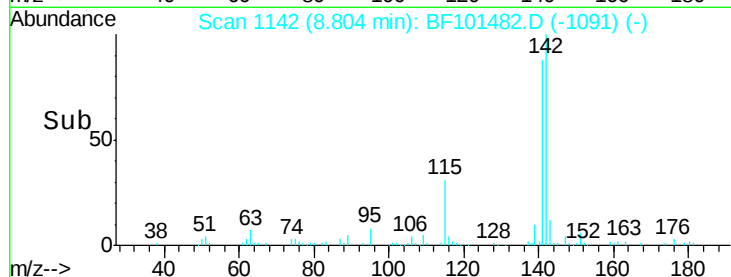
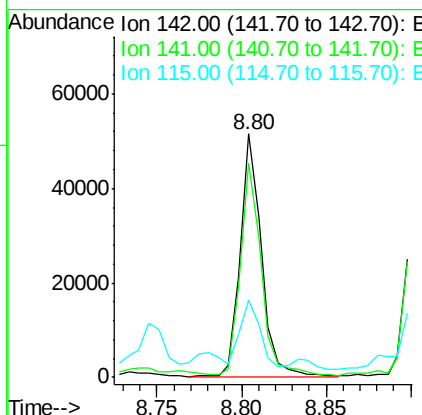
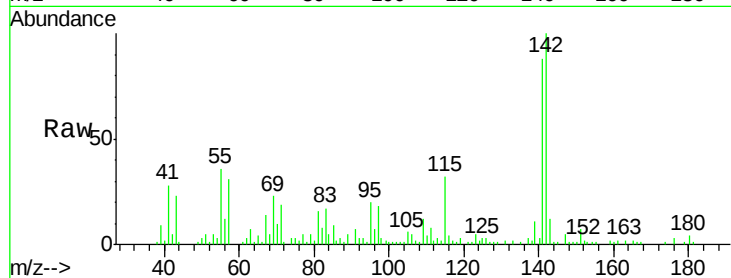




#37  
 2-Methylnaphthalene  
 Concen: 2.05 ng  
 RT: 8.80 min Scan# 1142  
 Delta R.T. 0.00 min  
 Lab File: BF101482.D  
 Acq: 18 Dec 2017 15:58

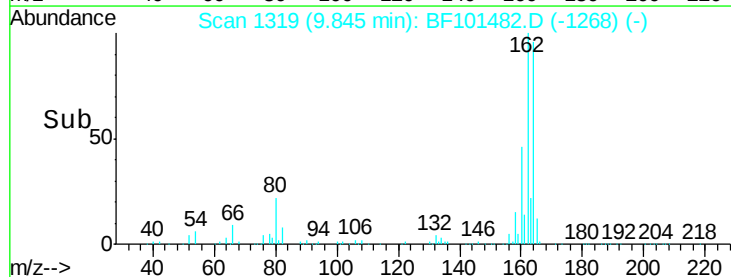
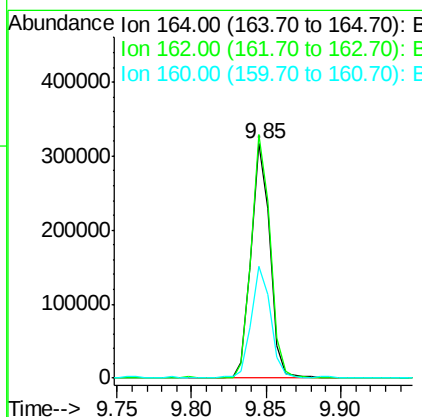
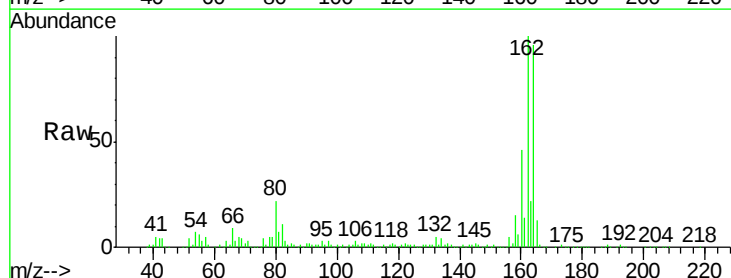
Instrument :  
 BNA\_F  
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 SU-04-121517

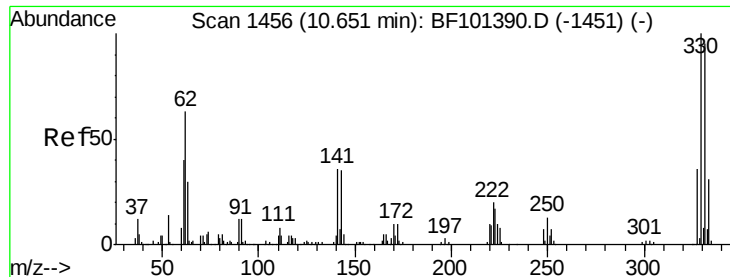
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.2  | 70.8  | 106.2 |
| 115     | 31.6  | 26.1  | 39.1  |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. 0.00 min  
 Lab File: BF101482.D  
 Acq: 18 Dec 2017 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.0 | 86.1  | 129.1 |
| 160     | 47.5  | 38.3  | 57.5  |

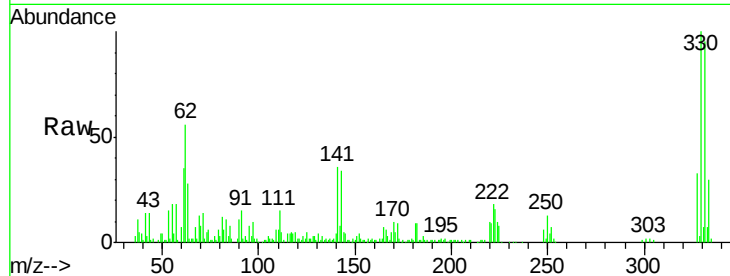




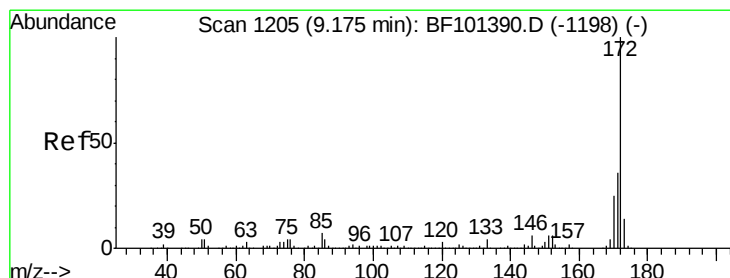
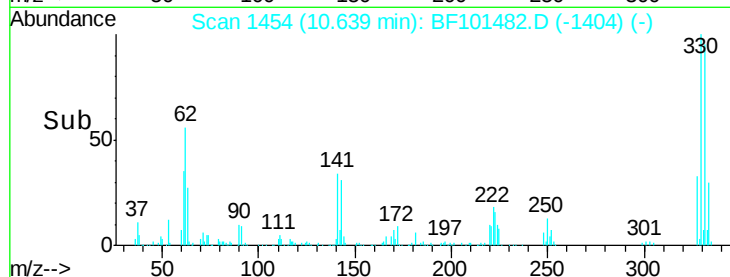
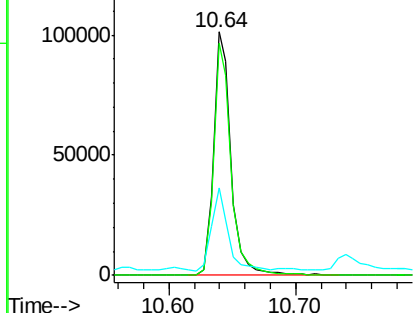
#41  
 2,4,6-Tribromophenol  
 Concen: 37.35 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.01 min  
 Lab File: BF101482.D  
 Acq: 18 Dec 2017 15:58

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-121517

Tot Ion:330 Resp: 98415  
 Ion Ratio Lower Upper  
 330 100  
 332 95.5 77.0 115.6  
 141 32.7 29.9 44.9

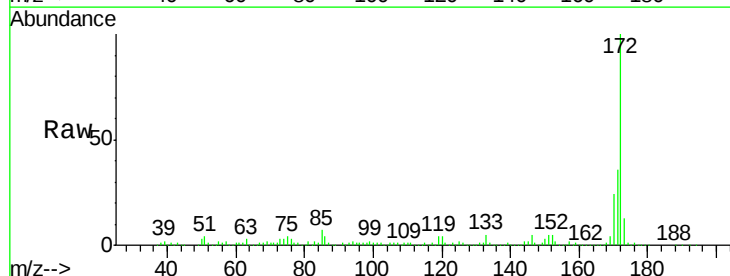


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

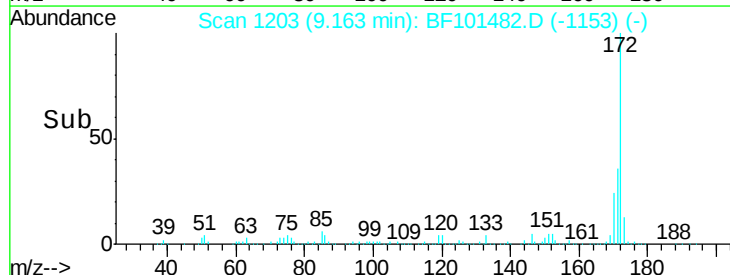
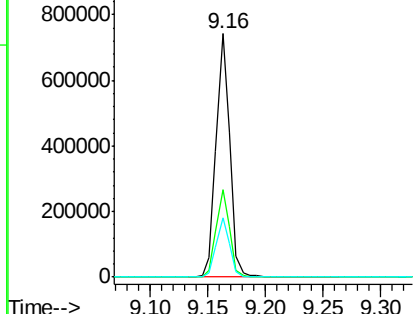


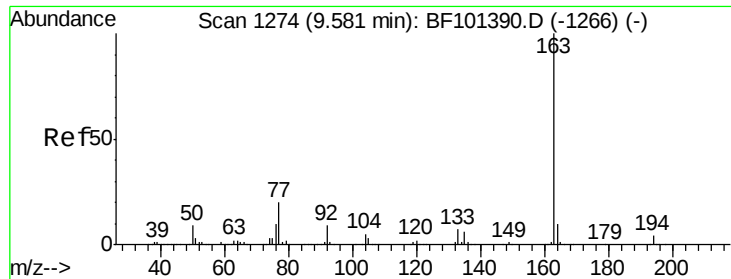
#44  
 2-Fluorobiphenyl  
 Concen: 34.69 ng  
 RT: 9.16 min Scan# 1203  
 Delta R.T. -0.01 min  
 Lab File: BF101482.D  
 Acq: 18 Dec 2017 15:58

Tgt Ion:172 Resp: 611559  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 29.7 44.5  
 170 24.2 19.6 29.4



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

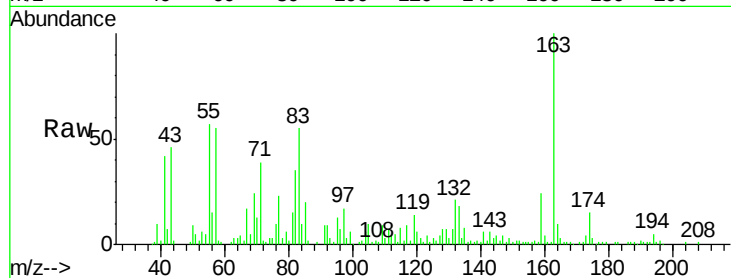




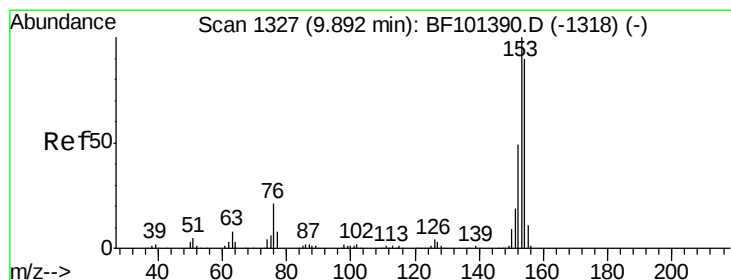
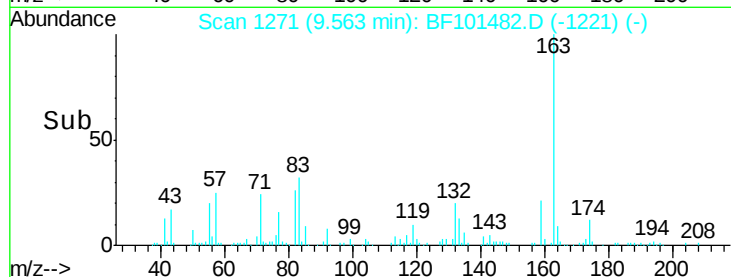
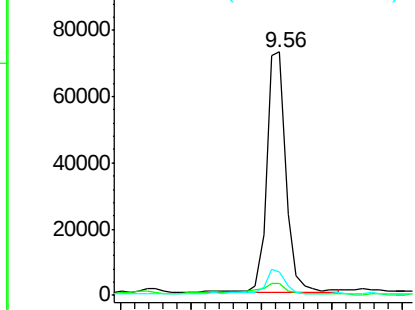
#49  
Dimethylphthalate  
Concen: 3.20 ng  
RT: 9.56 min Scan# 1271  
Delta R.T. -0.01 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-121517

Tot Ion:163 Resp: 70307  
Ion Ratio Lower Upper  
163 100  
194 4.7 2.7 4.1#  
164 9.8 8.2 12.2

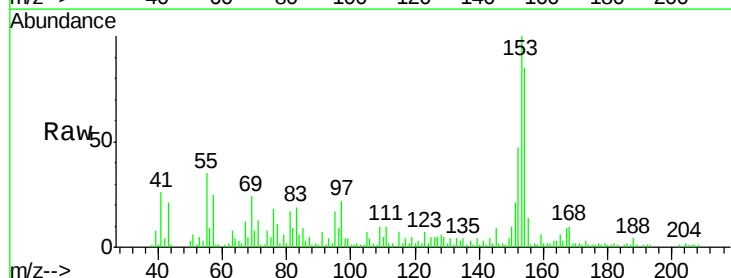


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

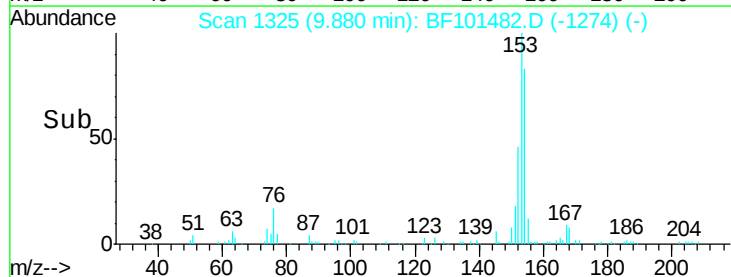
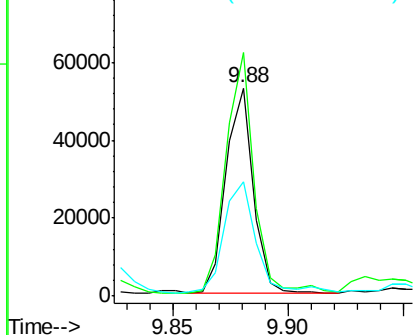


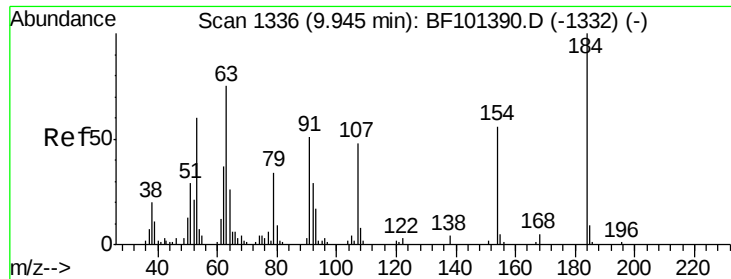
#51  
Acenaphthene  
Concen: 2.49 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. 0.00 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

Tgt Ion:154 Resp: 43814  
Ion Ratio Lower Upper  
154 100  
153 117.1 91.2 136.8  
152 54.8 43.8 65.8



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

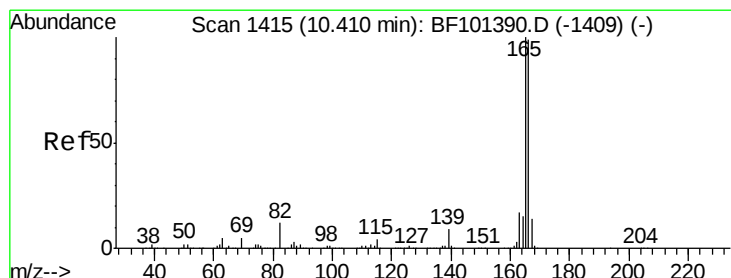
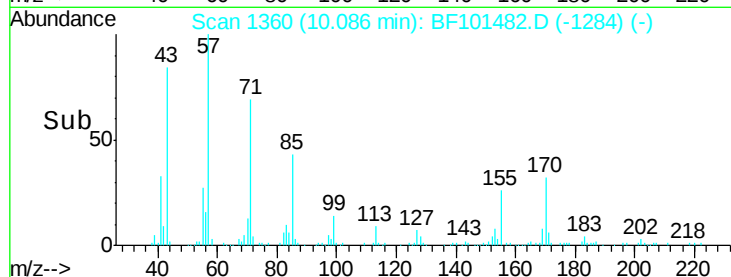
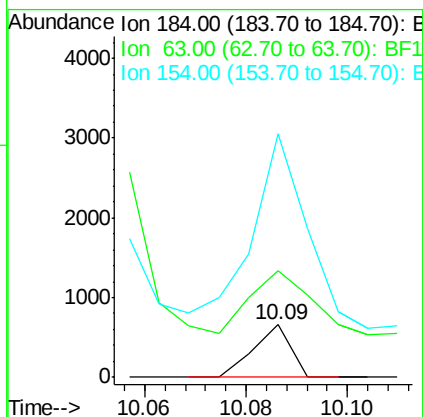
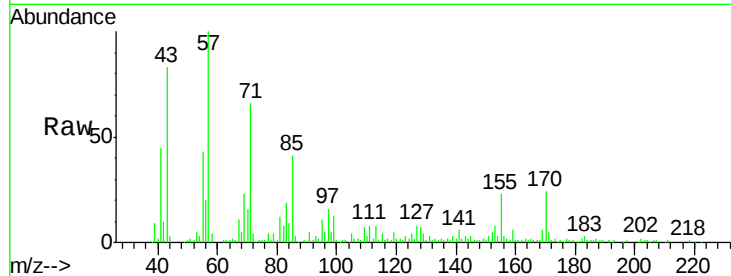




#53  
 2,4-Dinitrophenol  
 Concen: 10.51 ng  
 RT: 10.09 min Scan# 1360  
 Delta R.T. 0.15 min  
 Lab File: BF101482.D  
 Acq: 18 Dec 2017 15:58

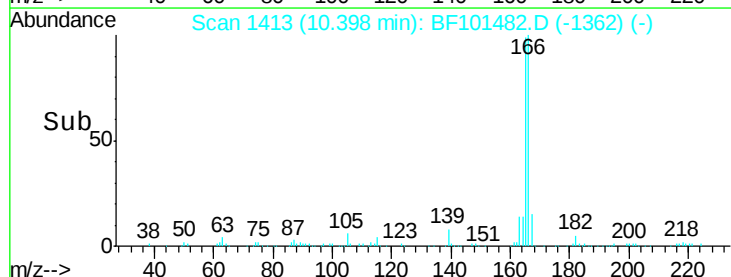
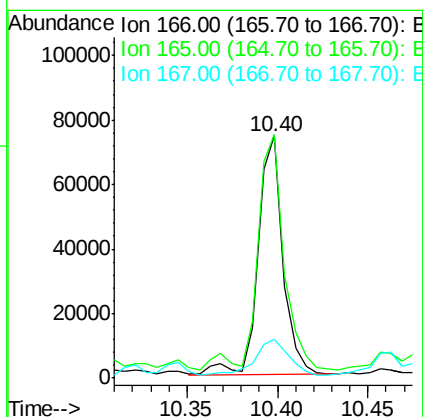
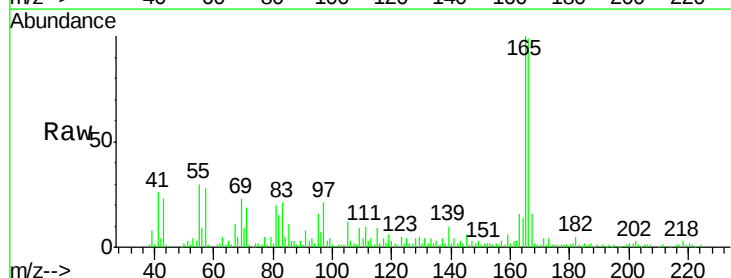
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-121517

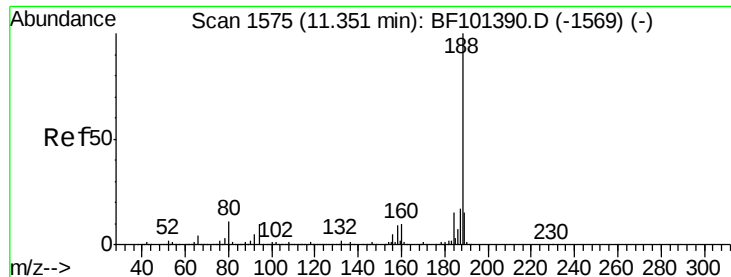
Tot Ion:184 Resp: 339  
 Ion Ratio Lower Upper  
 184 100  
 63 201.8 54.2 81.2#  
 154 461.2 184.0 276.0#



#57  
 Fluorene  
 Concen: 3.71 ng  
 RT: 10.40 min Scan# 1413  
 Delta R.T. 0.00 min  
 Lab File: BF101482.D  
 Acq: 18 Dec 2017 15:58

Tgt Ion:166 Resp: 70264  
 Ion Ratio Lower Upper  
 166 100  
 165 100.7 79.8 119.8  
 167 16.1 10.6 16.0#

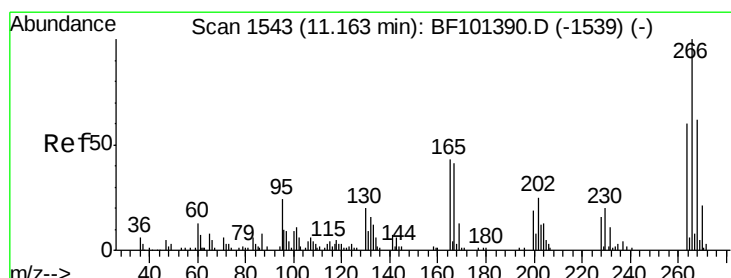
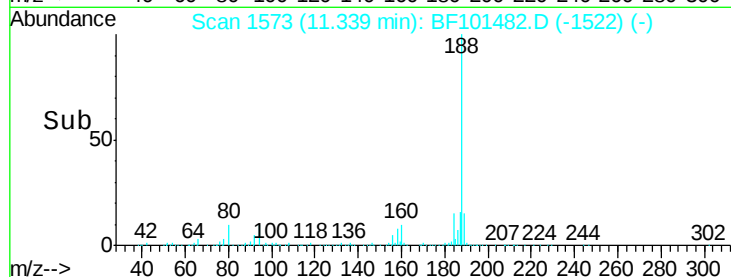
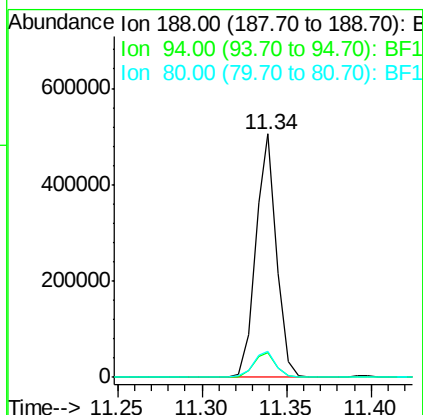
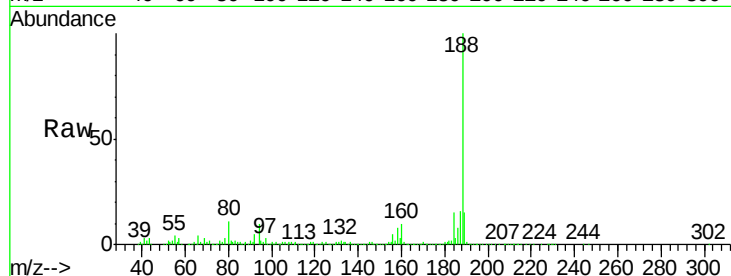




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.34 min Scan# 1573  
Delta R.T. 0.00 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

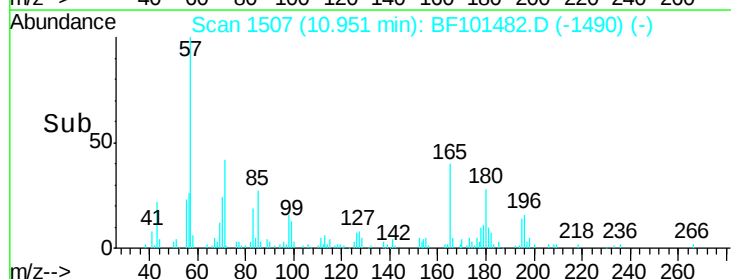
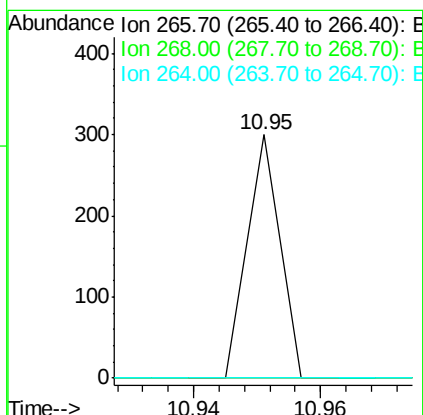
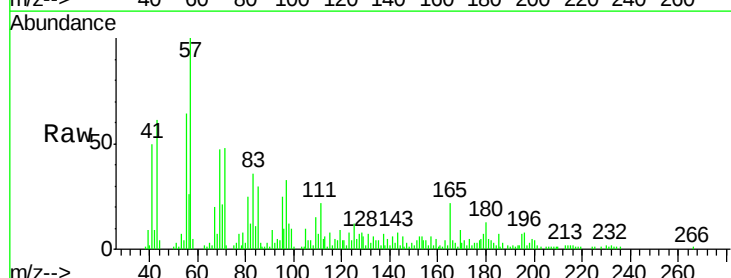
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-121517

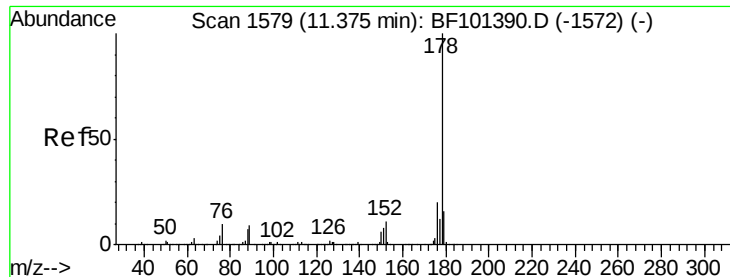
Tot Ion:188 Resp: 431467  
Ion Ratio Lower Upper  
188 100  
94 9.9 8.5 12.7  
80 10.7 9.2 13.8



#69  
Pentachlorophenol  
Concen: 6.61 ng  
RT: 10.95 min Scan# 1507  
Delta R.T. -0.20 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

Tgt Ion:266 Resp: 106  
Ion Ratio Lower Upper  
266 100  
268 0.0 51.1 76.7#  
264 0.0 49.5 74.3#

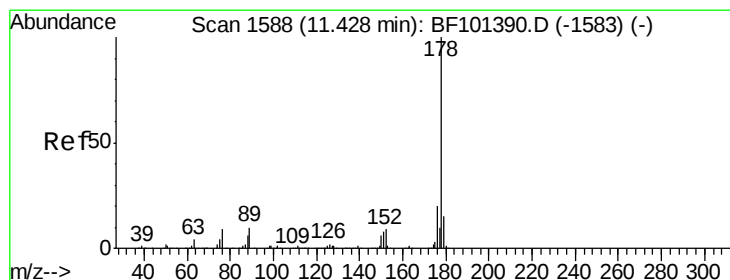
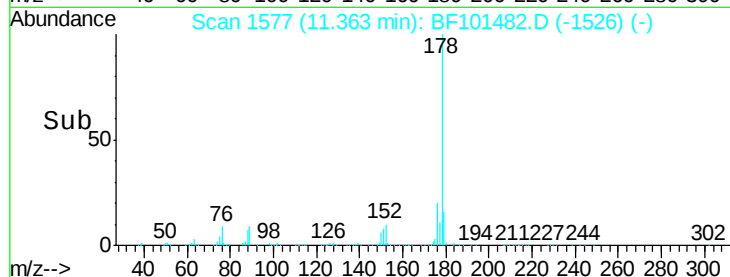
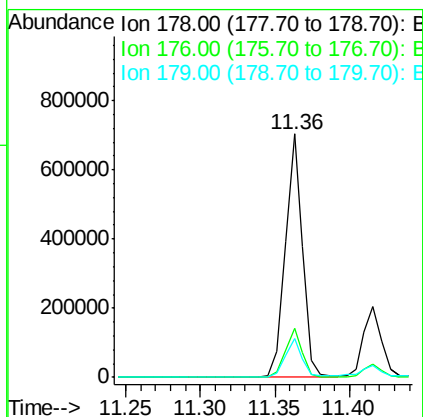
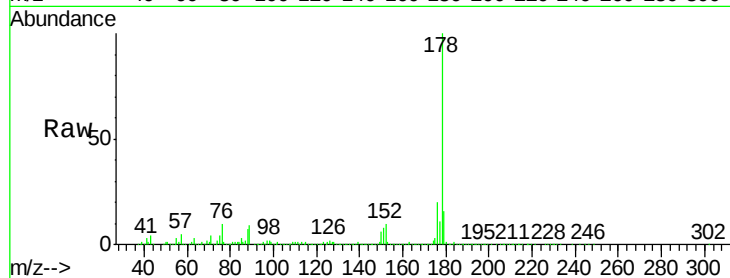




#70  
Phenanthrene  
Concen: 23.87 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. 0.00 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

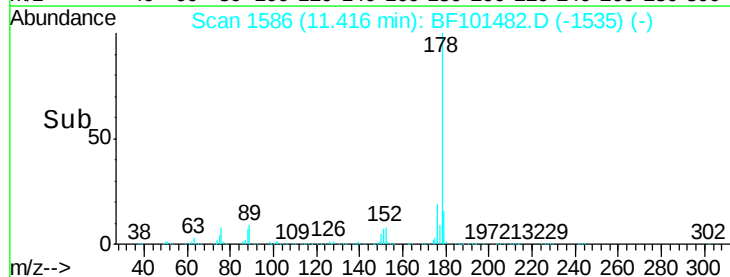
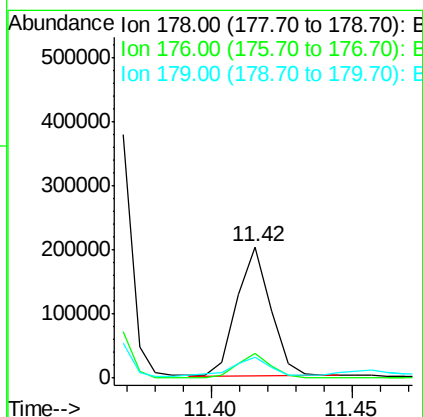
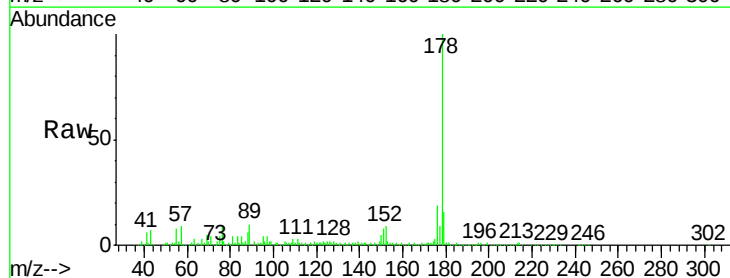
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-121517

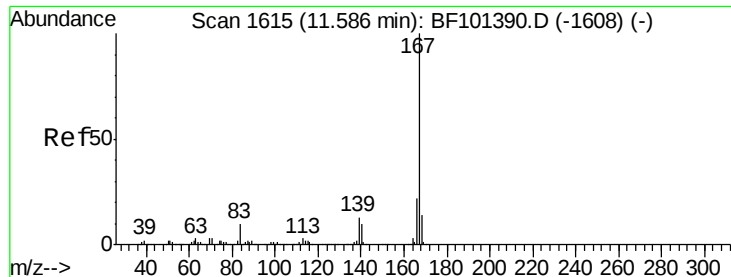
Tot Ion:178 Resp: 572659  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.8 23.8  
179 15.9 13.0 19.6



#71  
Anthracene  
Concen: 6.84 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. 0.00 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

Tgt Ion:178 Resp: 167615  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.4 23.2  
179 16.3 12.6 19.0





#72

Carbazole

Concen: 2.85 ng

RT: 11.57 min Scan# 1613

Delta R.T. 0.00 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

Instrument :

BNA\_F

ClientSampleId :

SU-04-121517

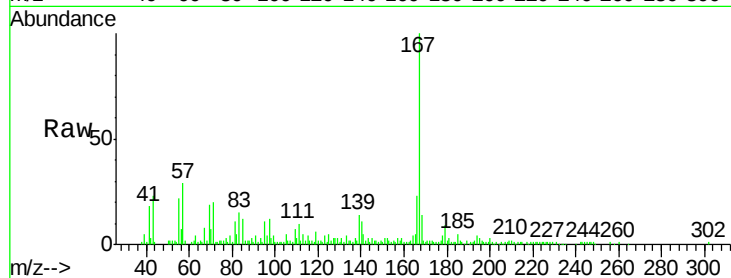
Tot Ion:167 Resp: 65286

Ion Ratio Lower Upper

167 100

166 23.0 17.6 26.4

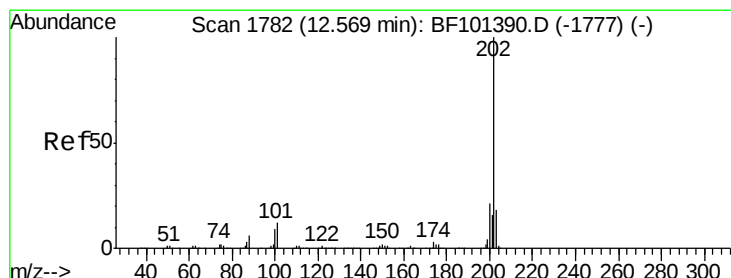
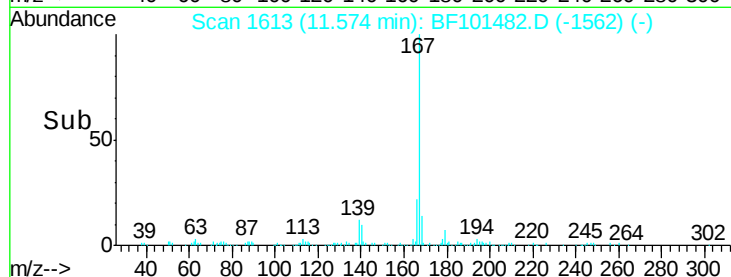
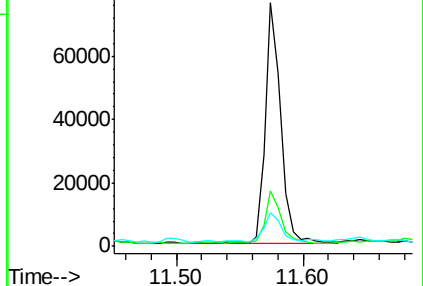
139 13.7 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 26.90 ng

RT: 12.56 min Scan# 1781

Delta R.T. 0.01 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

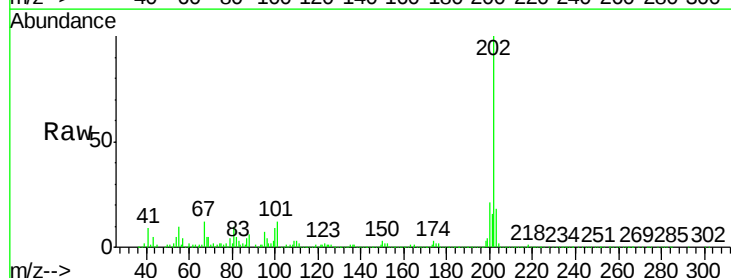
Tgt Ion:202 Resp: 677545

Ion Ratio Lower Upper

202 100

101 12.0 0.0 34.1

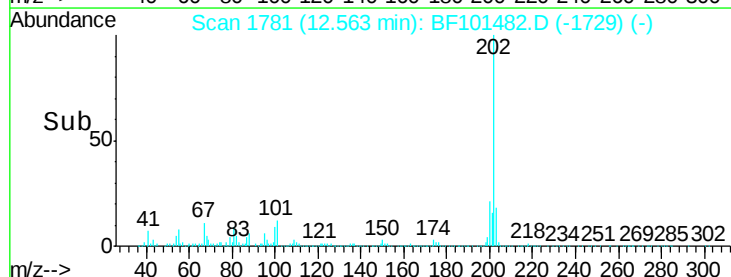
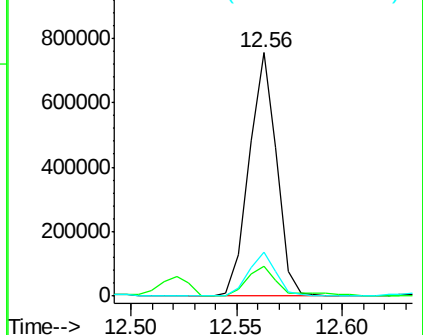
203 17.9 0.0 38.1

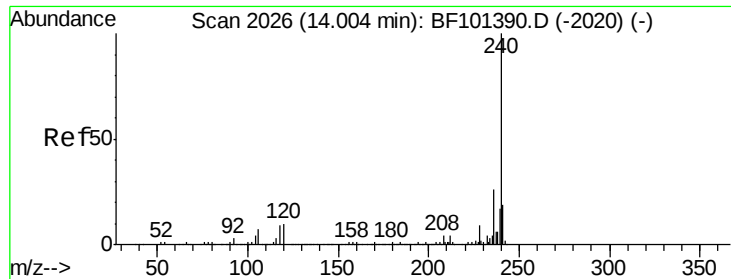


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.99 min Scan# 2024

Delta R.T. 0.01 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

Instrument :

BNA\_F

ClientSampleId :

SU-04-121517

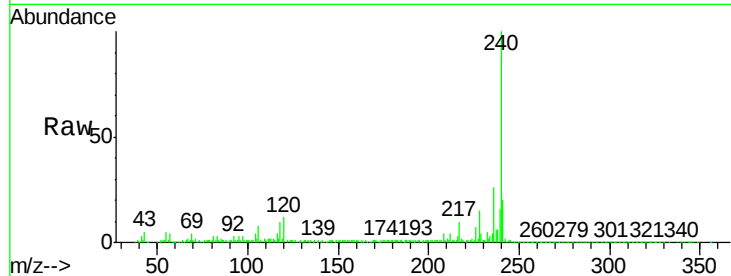
Tot Ion:240 Resp: 336015

Ion Ratio Lower Upper

240 100

120 11.7 9.5 14.3

236 25.7 20.7 31.1

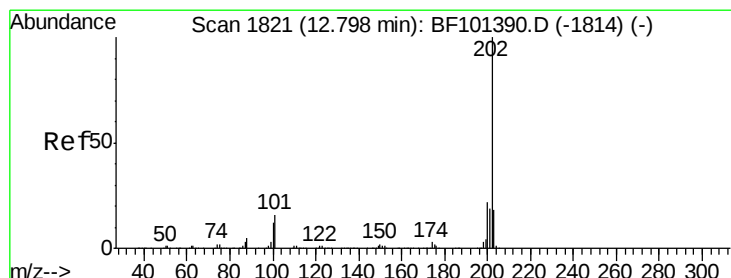
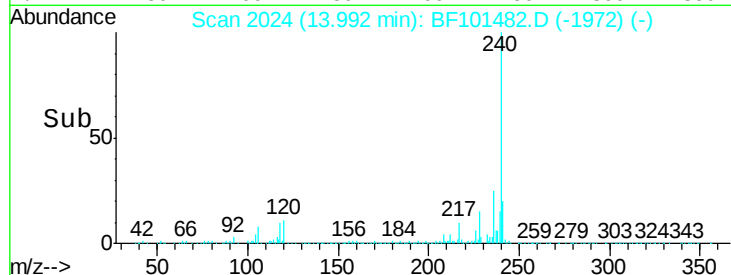


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

Time--> 13.90 14.00



#77

Pyrene

Concen: 27.44 ng

RT: 12.80 min Scan# 1821

Delta R.T. 0.01 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

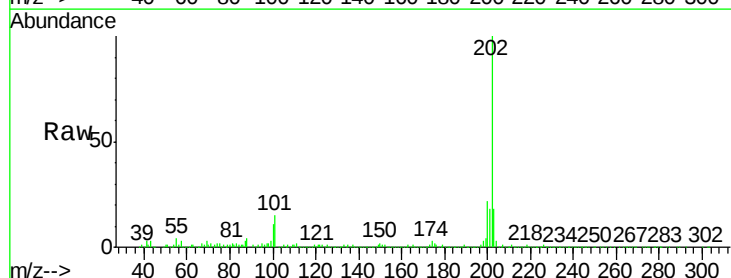
Tgt Ion:202 Resp: 692062

Ion Ratio Lower Upper

202 100

200 22.3 17.4 26.2

203 18.4 14.3 21.5

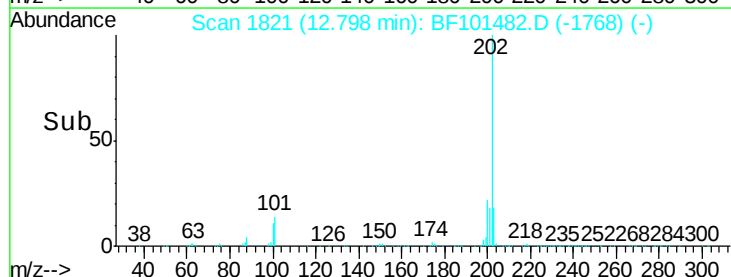


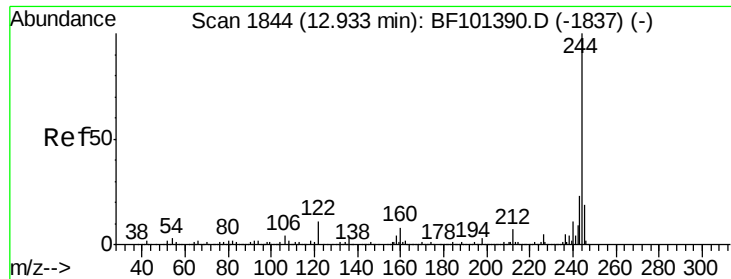
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

Time--> 12.75 12.80 12.85





#78

Terphenyl-d14

Concen: 29.42 ng

RT: 12.93 min Scan# 1843

Delta R.T. 0.01 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

Instrument :

BNA\_F

ClientSampleId :

SU-04-121517

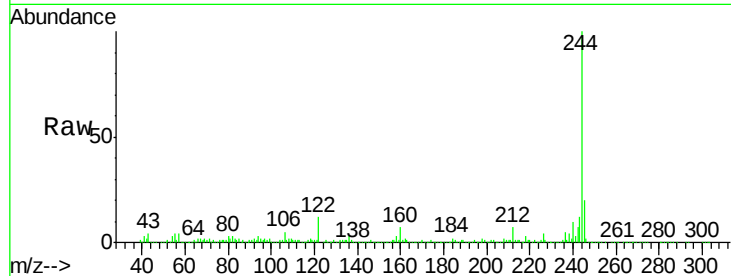
Tot Ion:244 Resp: 410012

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

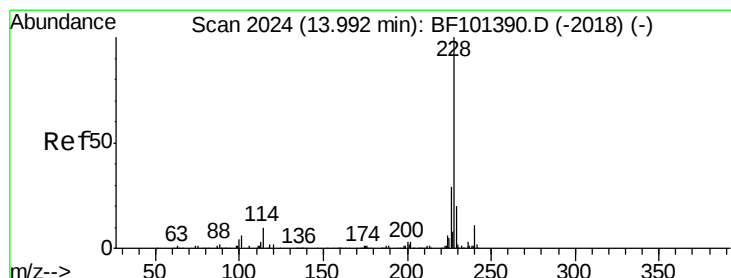
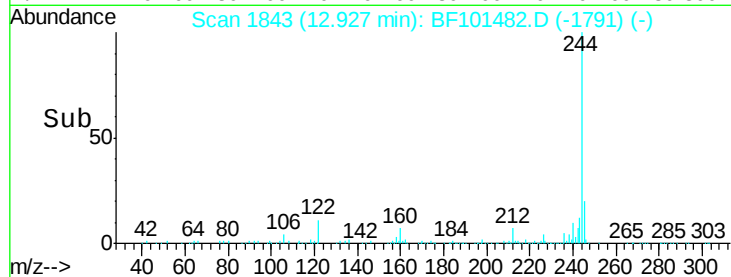
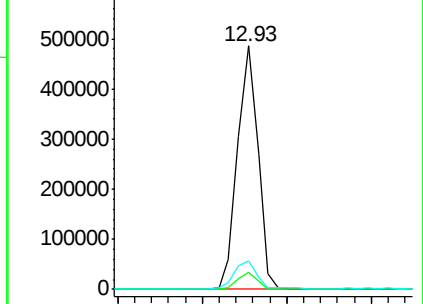
122 11.8 11.0 16.4



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



#80

Benzo(a)anthracene

Concen: 15.38 ng

RT: 13.98 min Scan# 2022

Delta R.T. 0.00 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

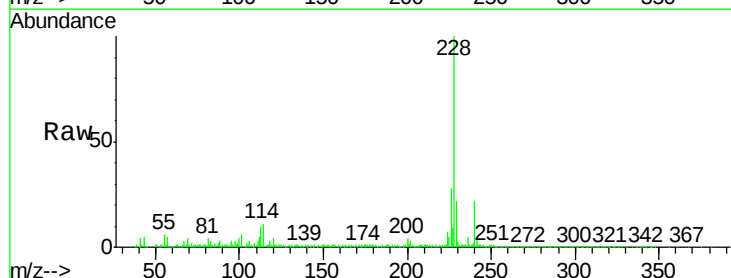
Tgt Ion:228 Resp: 341169

Ion Ratio Lower Upper

228 100

226 28.3 22.6 33.8

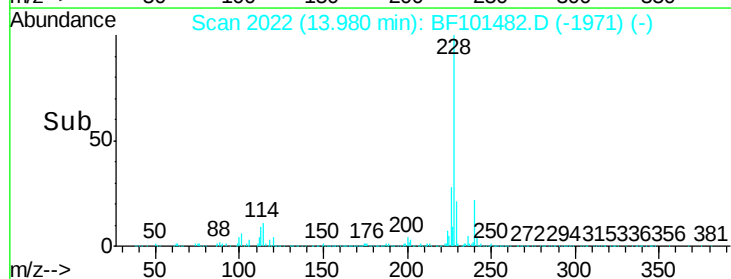
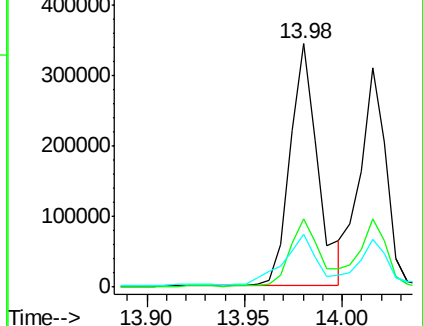
229 21.6 15.8 23.6

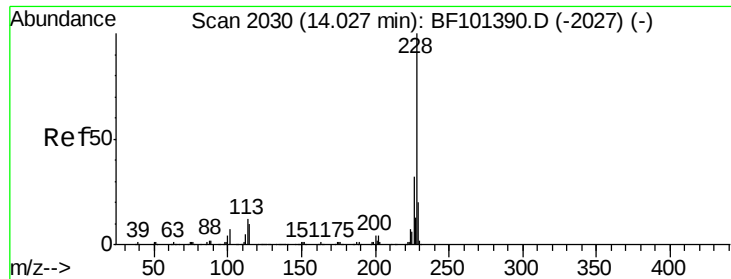


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 13.84 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

Instrument :

BNA\_F

ClientSampleId :

SU-04-121517

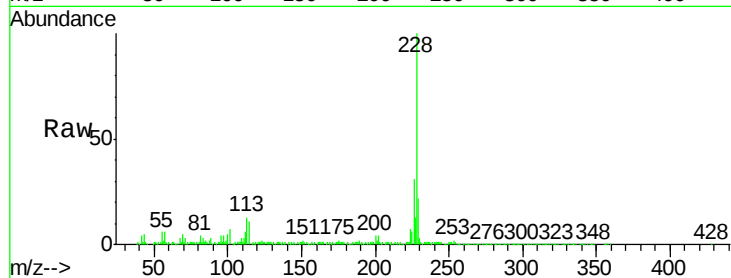
Tot Ion:228 Resp: 289912

Ion Ratio Lower Upper

228 100

226 31.2 25.0 37.6

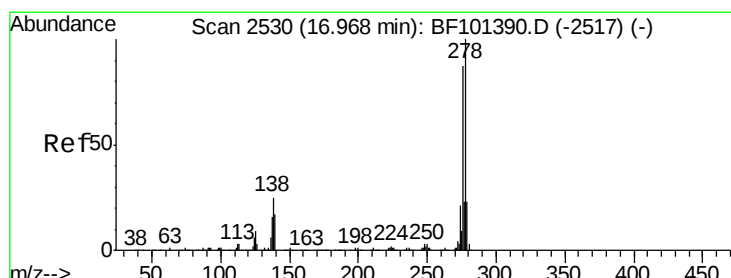
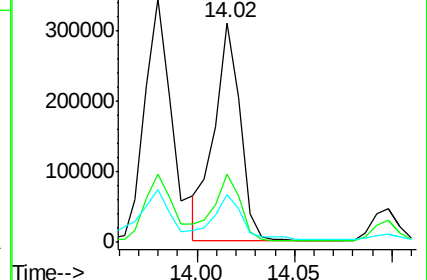
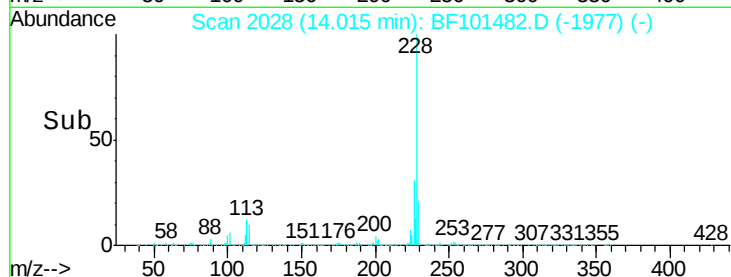
229 21.7 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.55 ng

RT: 16.95 min Scan# 2527

Delta R.T. 0.01 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

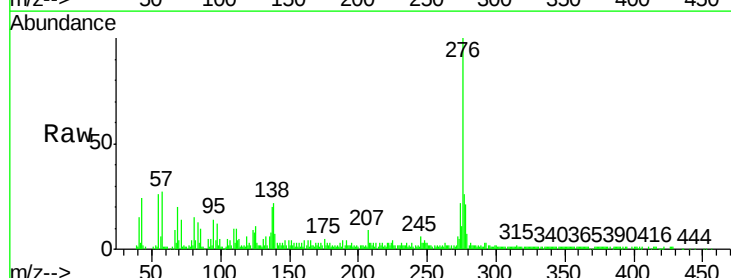
Tgt Ion:276 Resp: 140815

Ion Ratio Lower Upper

276 100

138 23.2 25.0 37.6#

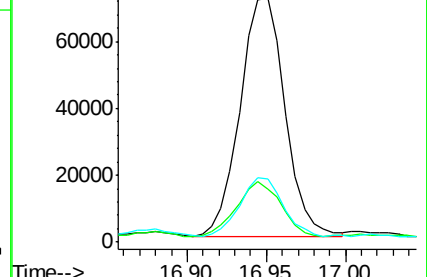
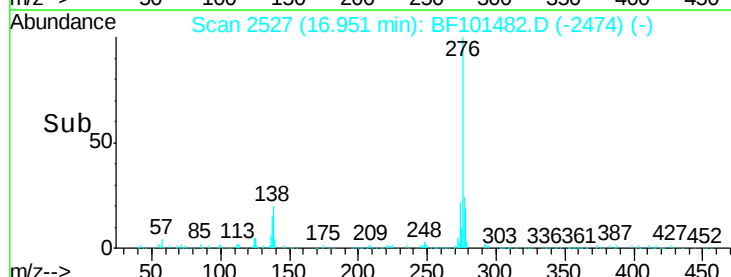
277 24.0 20.1 30.1

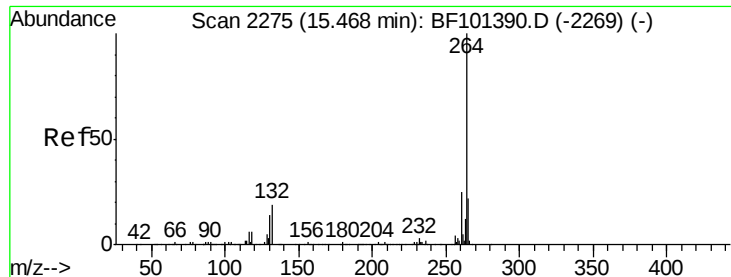


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

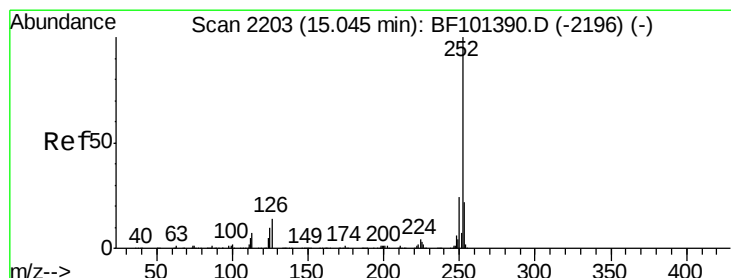
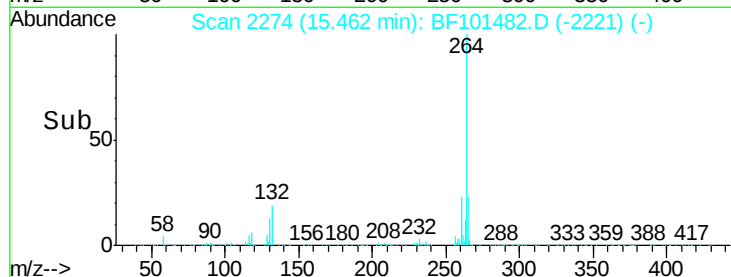
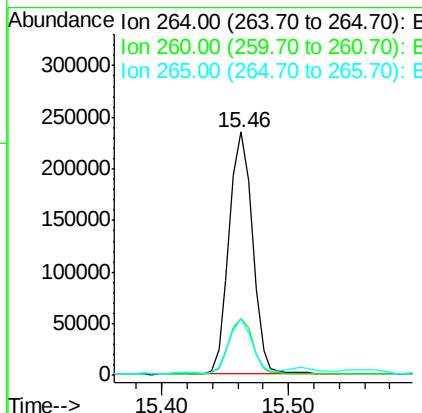
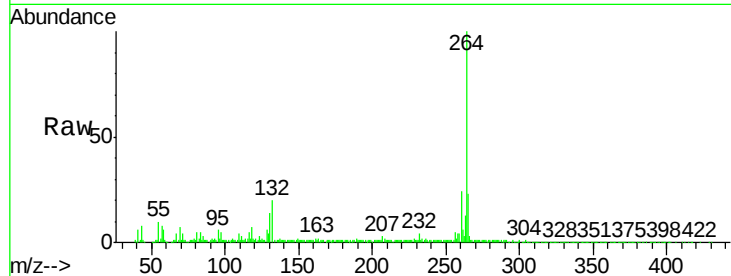




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.46 min Scan# 2274  
Delta R.T. 0.01 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

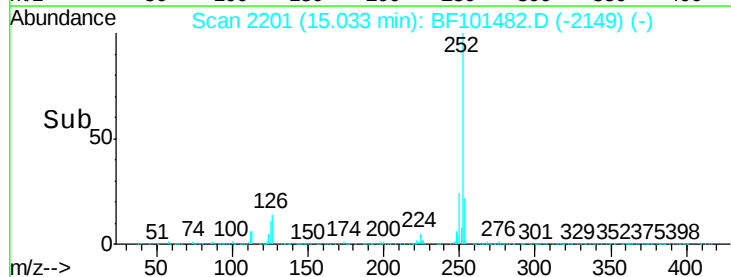
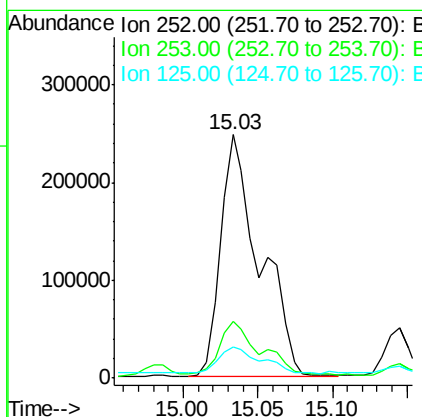
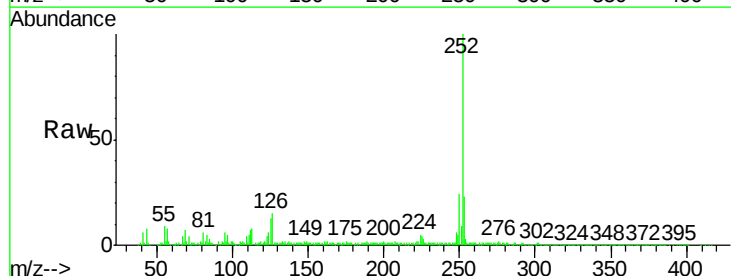
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-121517

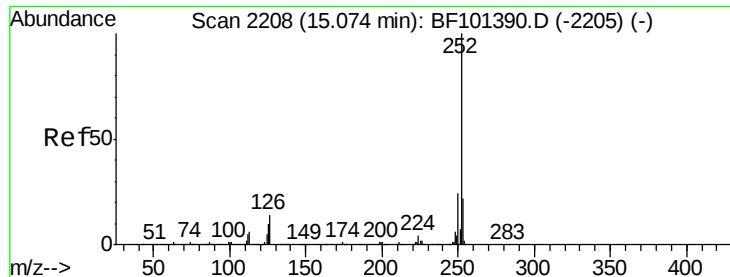
Tot Ion:264 Resp: 302980  
Ion Ratio Lower Upper  
264 100  
260 23.5 19.2 28.8  
265 23.3 17.5 26.3



#87  
Benzo(b)fluoranthene  
Concen: 24.50 ng  
RT: 15.03 min Scan# 2201  
Delta R.T. 0.01 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

Tgt Ion:252 Resp: 452425  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.0 25.6  
125 12.8 9.0 13.6

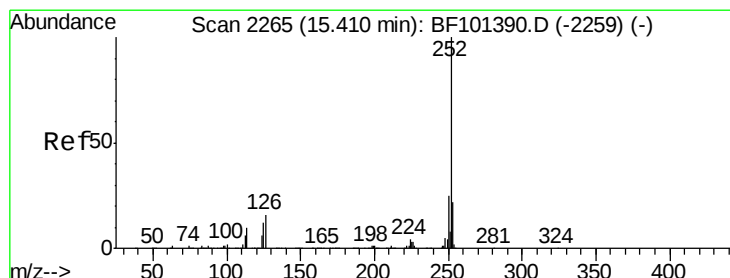
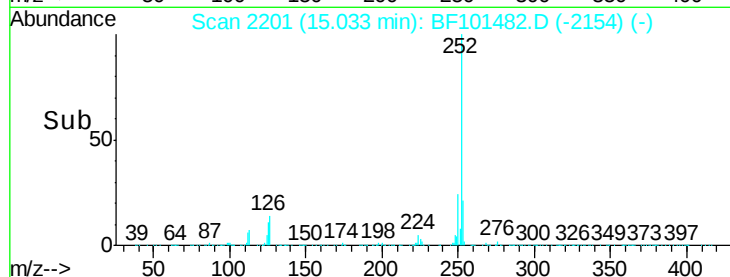
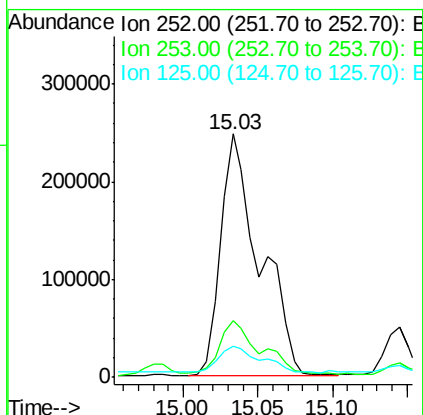
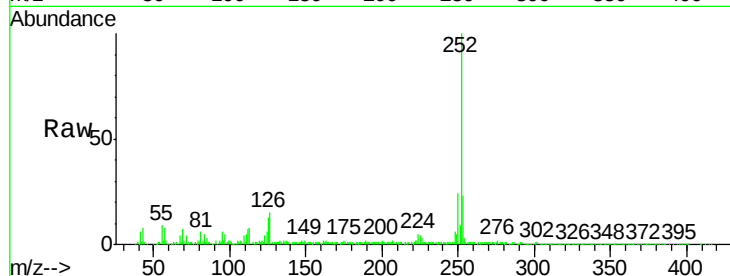




#88  
Benzo(k)fluoranthene  
Concen: 25.19 ng  
RT: 15.03 min Scan# 2201  
Delta R.T. -0.02 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

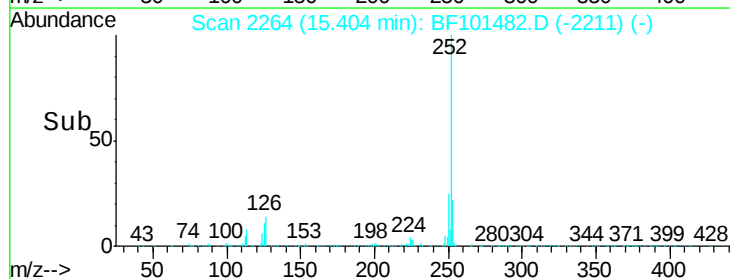
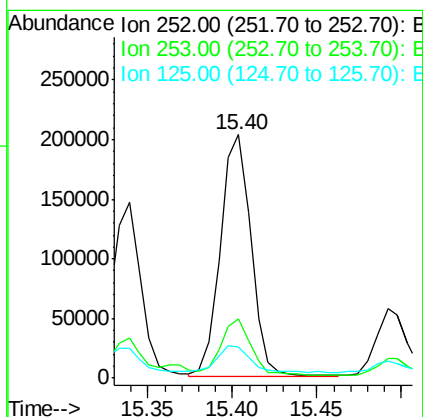
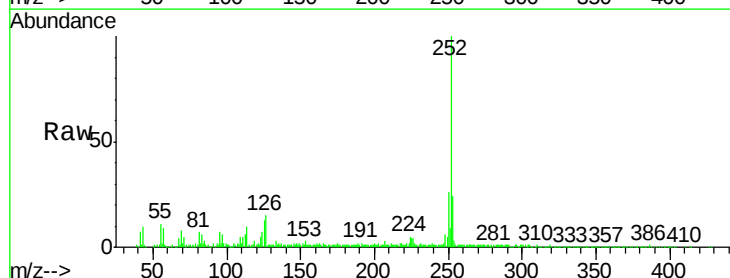
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-121517

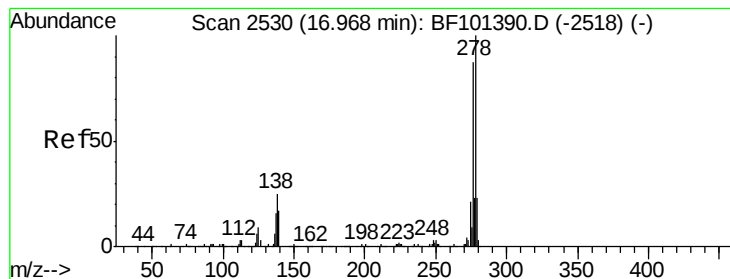
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.9  | 26.9  |
| 125     | 12.8  | 10.2  | 15.2  |



#89  
Benzo(a)pyrene  
Concen: 14.93 ng  
RT: 15.40 min Scan# 2264  
Delta R.T. 0.01 min  
Lab File: BF101482.D  
Acq: 18 Dec 2017 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 17.1  | 25.7  |
| 125     | 12.9  | 9.8   | 14.6  |





#90

Dibenzo(a,h)anthracene

Concen: 2.33 ng

RT: 16.94 min Scan# 2525

Delta R.T. 0.00 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

Instrument :

BNA\_F

ClientSampleId :

SU-04-121517

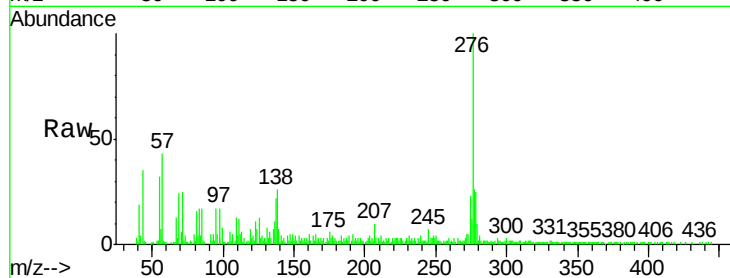
Tot Ion:278 Resp: 34014

Ion Ratio Lower Upper

278 100

139 29.5 15.9 23.9#

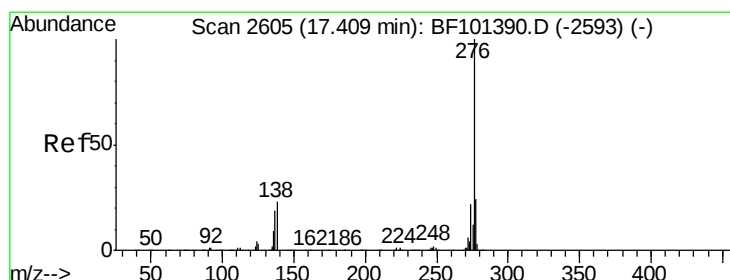
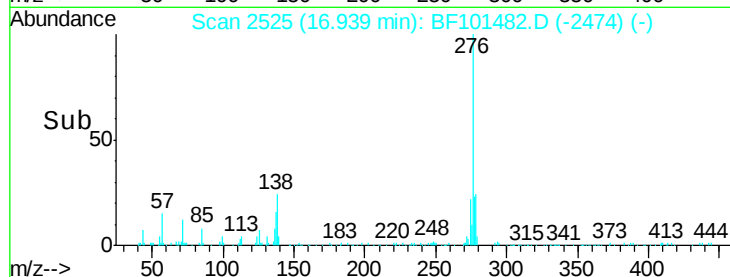
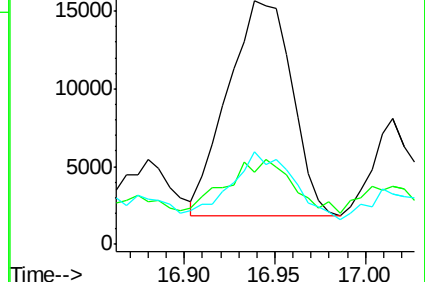
279 38.2 19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 9.65 ng

RT: 17.40 min Scan# 2603

Delta R.T. 0.02 min

Lab File: BF101482.D

Acq: 18 Dec 2017 15:58

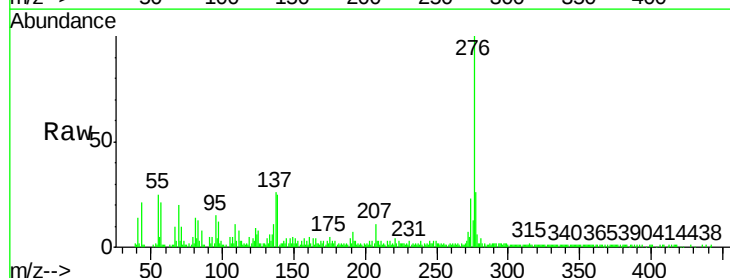
Tgt Ion:276 Resp: 139723

Ion Ratio Lower Upper

276 100

277 25.7 17.9 26.9

138 25.1 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

