

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091918\  
 Data File : BF109145.D  
 Acq On : 19 Sep 2018 16:02  
 Operator : JU/SJ  
 Sample : J4772-01RE 2X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 19 16:39:25 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 14 13:26:52 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 128931   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.00  | 136  | 444686   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.75  | 164  | 183686   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.23 | 188  | 328472   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.86 | 240  | 353494   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.27 | 264  | 307953   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.32  | 112  | 170509   | 21.96 | ng    | 0.00     |
| 7) Phenol-d6                | 6.35  | 99   | 218315   | 21.81 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 114292   | 14.42 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330  | 46154    | 23.15 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.08  | 172  | 233451   | 19.91 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.81 | 244  | 228435   | 15.32 | ng    | 0.00     |

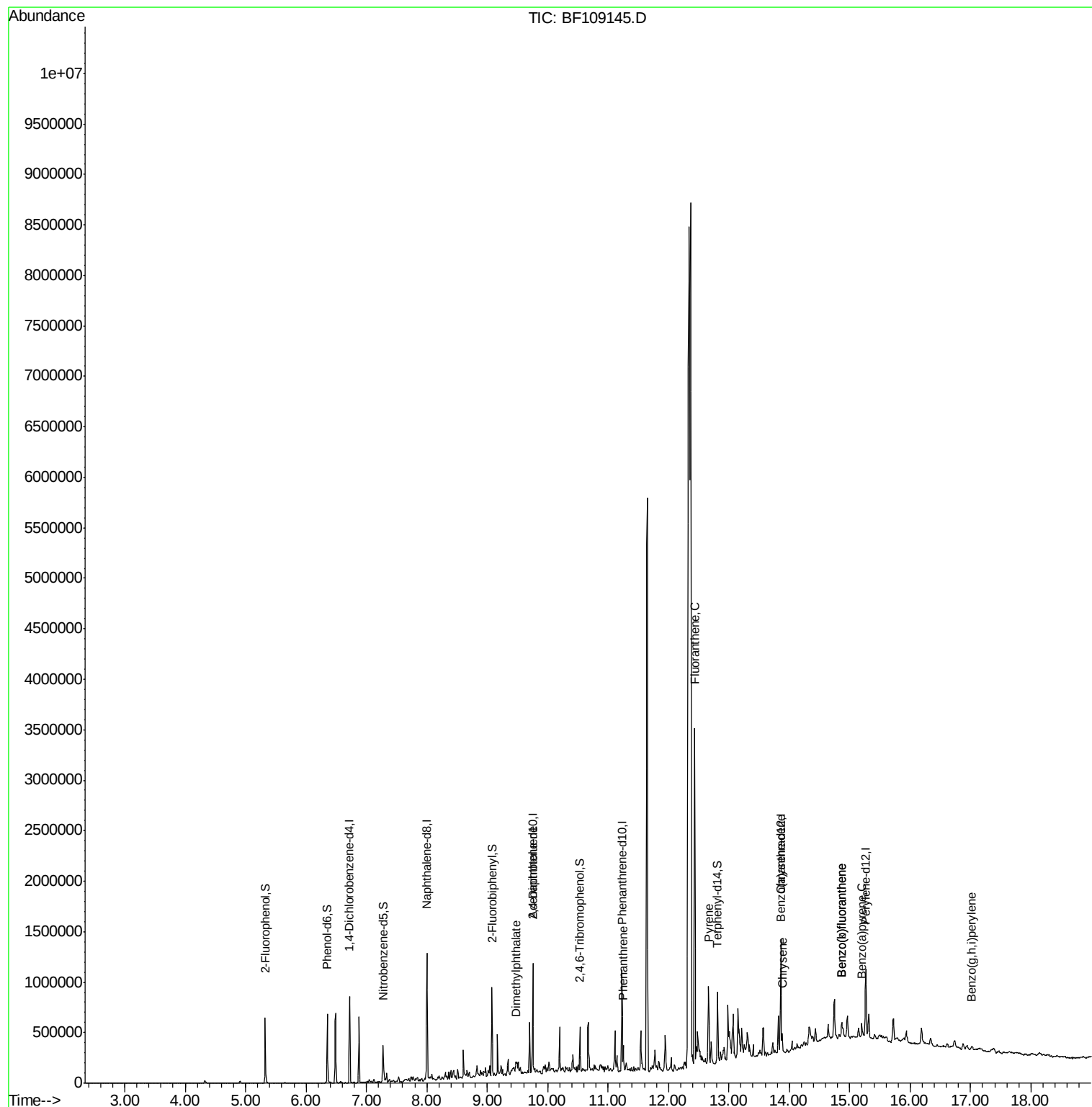
| Target Compounds         | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------|-------|------|----------|-------|-------|--------|
| 49) Dimethylphthalate    | 9.47  | 163  | 33012    | 2.514 | ng    | # 97   |
| 56) 2,4-Dinitrotoluene   | 9.75  | 165  | 24978    | 6.560 | ng    | # 24   |
| 70) Phenanthrene         | 11.25 | 178  | 81082    | 5.036 | ng    | 99     |
| 74) Fluoranthene         | 12.44 | 202  | 146645   | 8.627 | ng    | 97     |
| 77) Pyrene               | 12.67 | 202  | 151495   | 5.770 | ng    | 99     |
| 80) Benzo(a)anthracene   | 13.85 | 228  | 82019    | 3.832 | ng    | 97     |
| 82) Chrysene             | 13.88 | 228  | 68183    | 3.184 | ng    | 98     |
| 87) Benzo(b)fluoranthene | 14.87 | 252  | 106545   | 6.254 | ng    | # 92   |
| 88) Benzo(k)fluoranthene | 14.87 | 252  | 106545   | 6.696 | ng    | # 95   |
| 89) Benzo(a)pyrene       | 15.21 | 252  | 52734    | 3.485 | ng    | # 93   |
| 91) Benzo(g,h,i)perylene | 17.02 | 276  | 25477    | 2.005 | ng    | 95     |

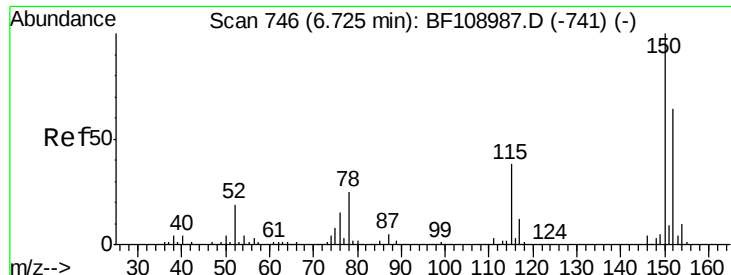
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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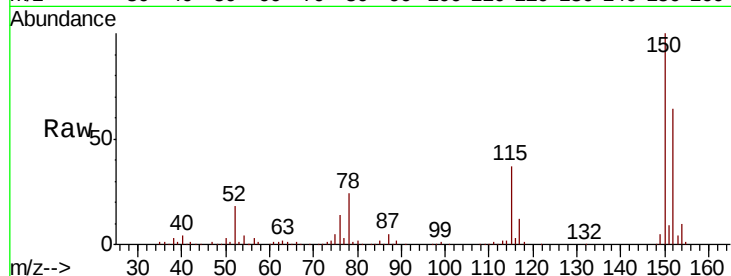


#1

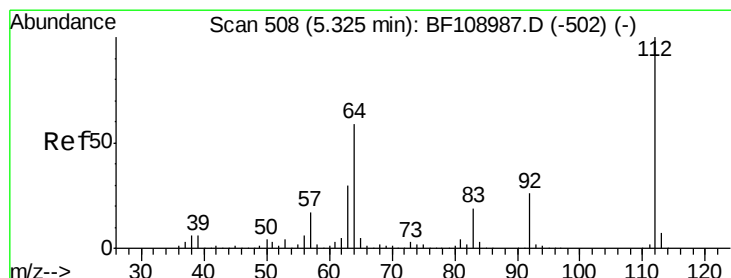
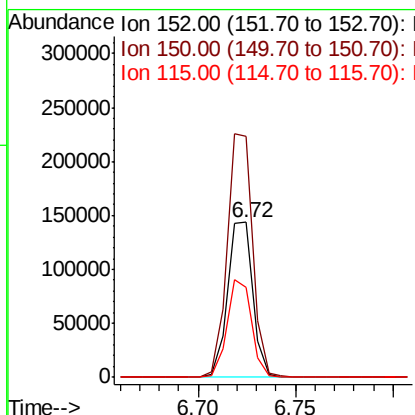
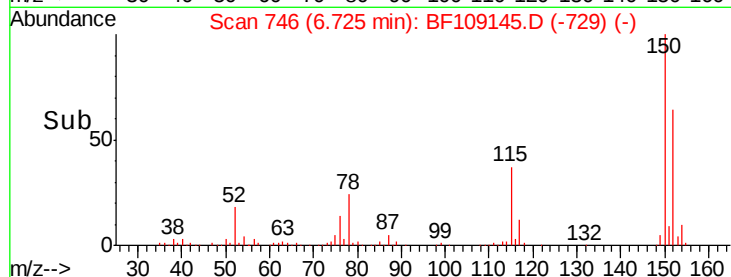
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.72 min Scan# 746  
 Delta R.T. -0.00 min  
 Lab File: BF109145.D  
 Acq: 19 Sep 2018 16:02

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:152 Resp: 128931  
 Ion Ratio Lower Upper  
 152 100  
 150 155.3 124.6 186.8  
 115 57.8 50.1 75.1



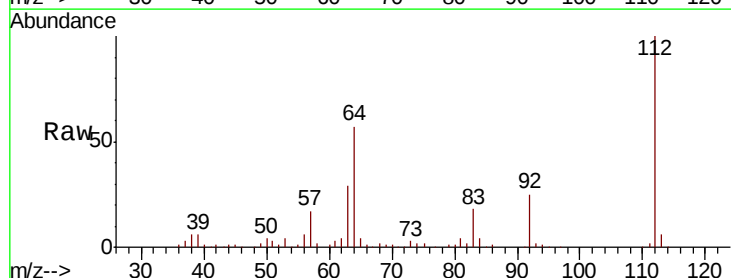
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



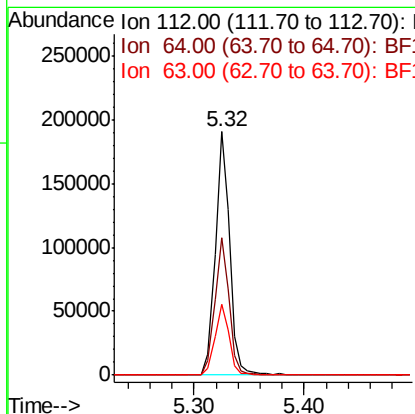
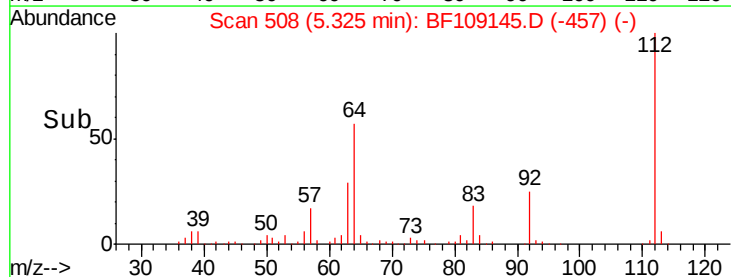
#5

2-Fluorophenol  
 Concen: 21.965 ng  
 RT: 5.32 min Scan# 508  
 Delta R.T. 0.00 min  
 Lab File: BF109145.D  
 Acq: 19 Sep 2018 16:02

Tgt Ion:112 Resp: 170509  
 Ion Ratio Lower Upper  
 112 100  
 64 56.5 47.9 71.9  
 63 29.2 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: 21.810 ng

RT: 6.35 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF109145.D

Acq: 19 Sep 2018 16:02

Instrument :

BNA\_G

ClientSampleId :

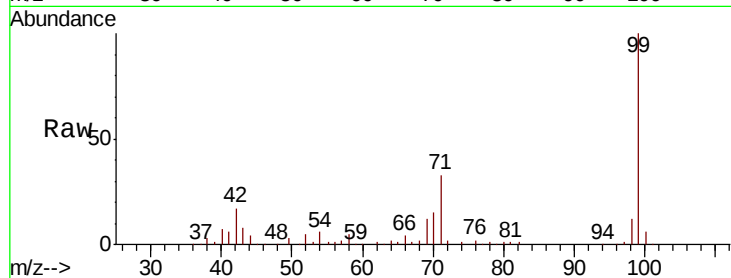
Tot Ion: 99 Resp: 218315

Ion Ratio Lower Upper

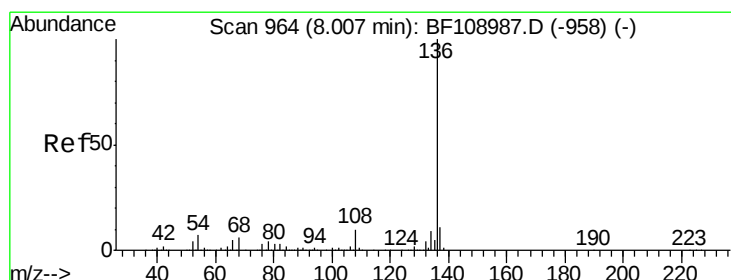
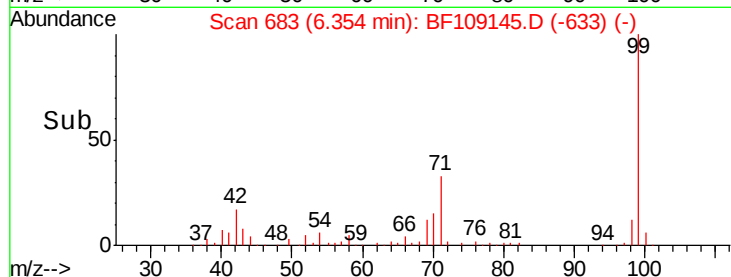
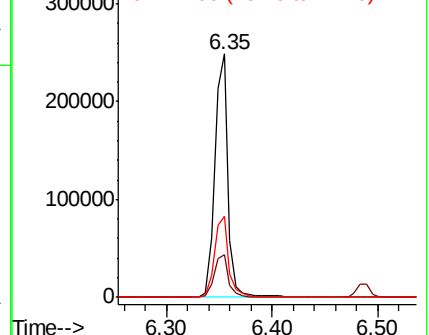
99 100

42 17.4 14.5 21.7

71 33.1 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: 20.000 ng

RT: 8.00 min Scan# 963

Delta R.T. -0.01 min

Lab File: BF109145.D

Acq: 19 Sep 2018 16:02

Tgt Ion: 136 Resp: 444686

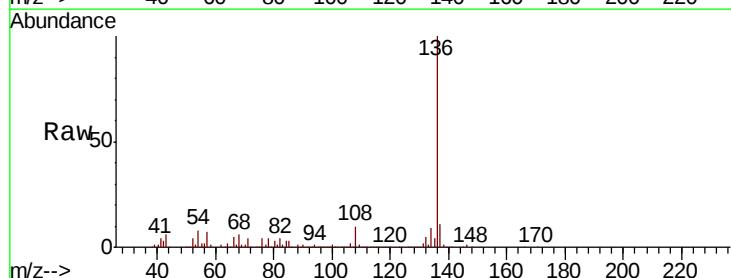
Ion Ratio Lower Upper

136 100

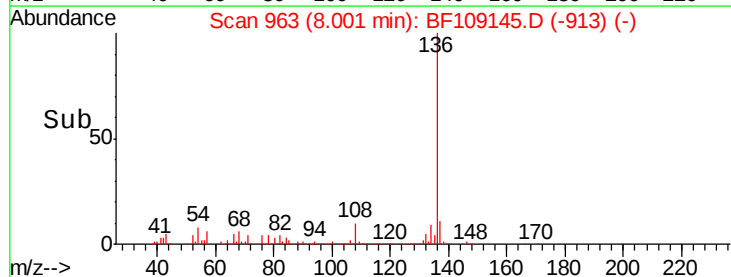
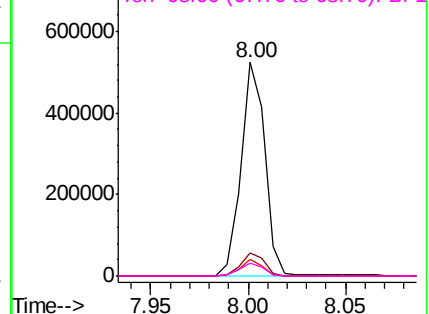
137 11.1 8.9 13.3

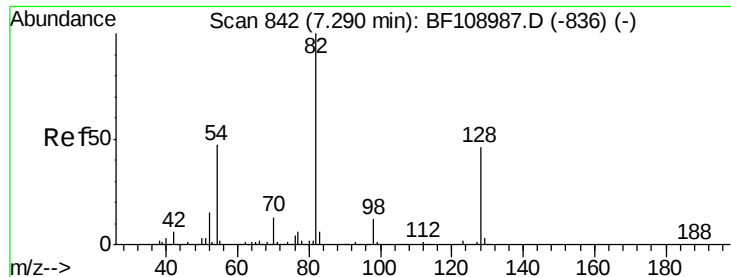
54 7.8 6.6 9.8

68 5.9 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

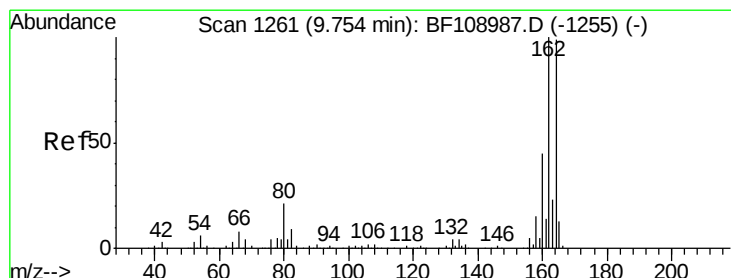
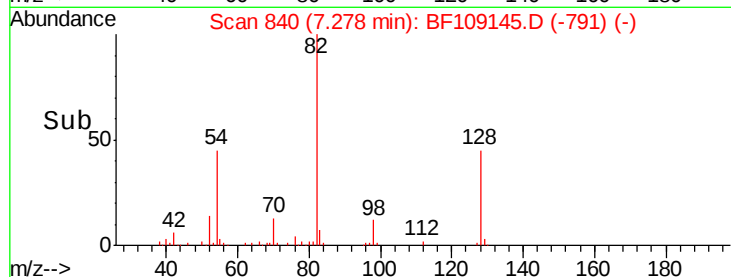
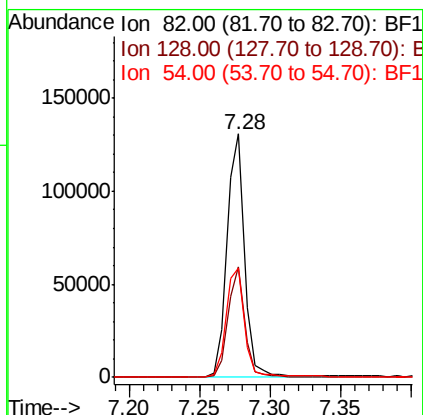
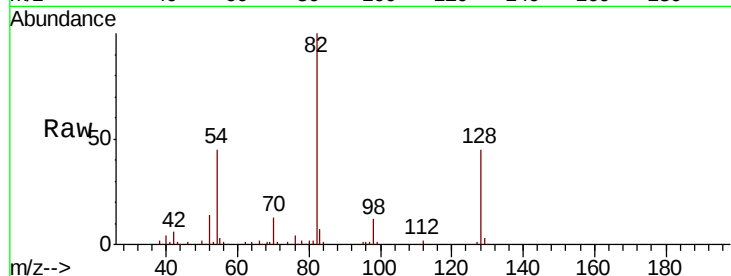




#23  
Nitrobenzene-d5  
Concen: 14.416 ng  
RT: 7.28 min Scan# 840  
Delta R.T. -0.01 min  
Lab File: BF109145.D  
Acq: 19 Sep 2018 16:02

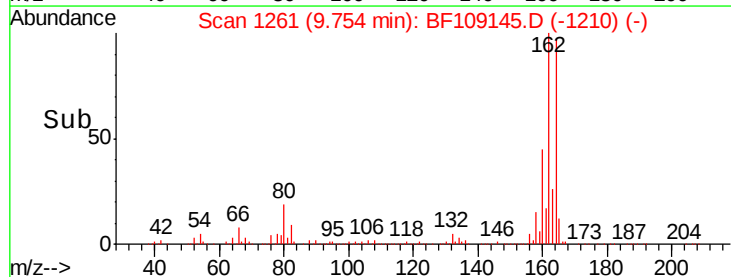
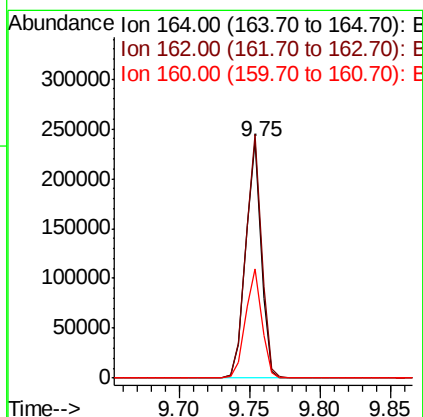
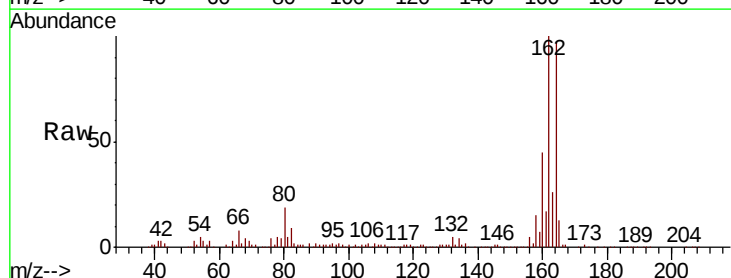
Instrument :  
BNA\_G  
ClientSampleId :

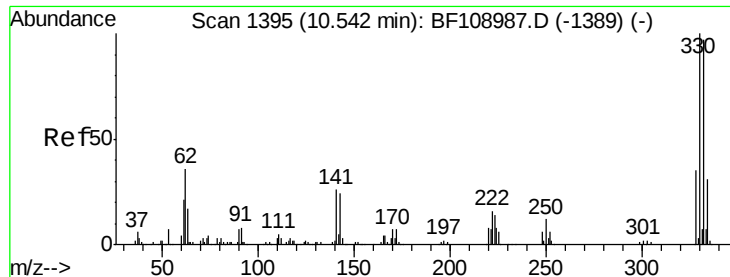
Tot Ion: 82 Resp: 114292  
Ion Ratio Lower Upper  
82 100  
128 45.3 36.1 54.1  
54 45.1 41.4 62.2



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.75 min Scan# 1261  
Delta R.T. -0.00 min  
Lab File: BF109145.D  
Acq: 19 Sep 2018 16:02

Tgt Ion:164 Resp: 183686  
Ion Ratio Lower Upper  
164 100  
162 102.7 86.1 129.1  
160 46.2 38.3 57.5

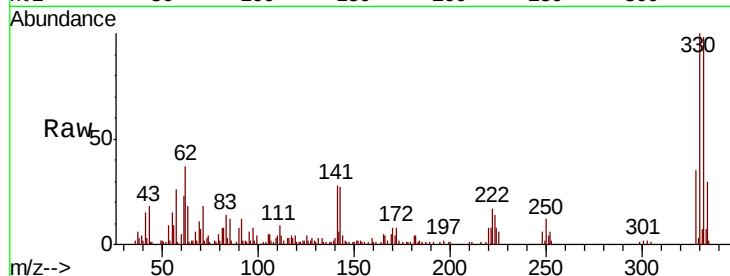




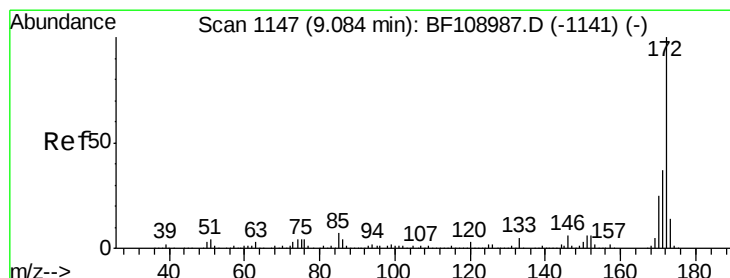
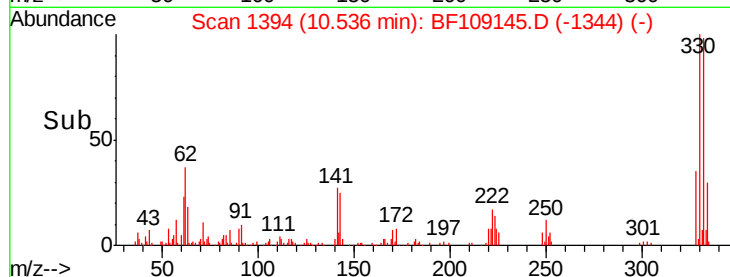
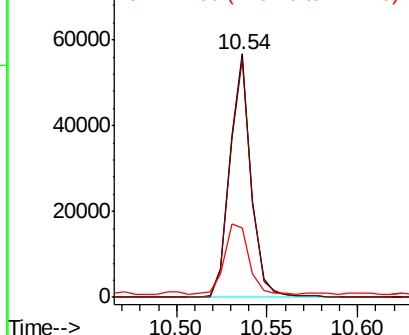
#41  
 2,4,6-Tribromophenol  
 Concen: 23.152 ng  
 RT: 10.54 min Scan# 1394  
 Delta R.T. -0.01 min  
 Lab File: BF109145.D  
 Acq: 19 Sep 2018 16:02

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.3  | 77.0  | 115.6 |
| 141     | 33.9  | 29.9  | 44.9  |

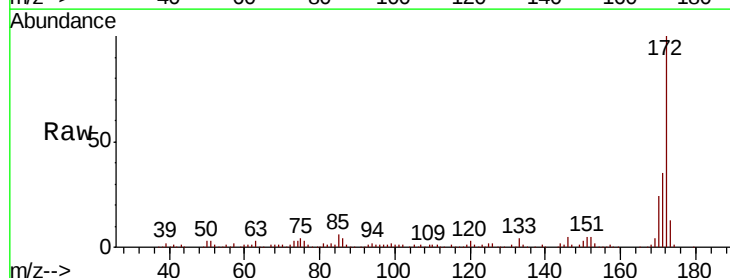


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

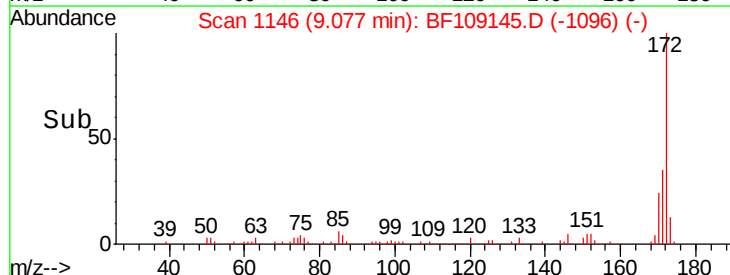
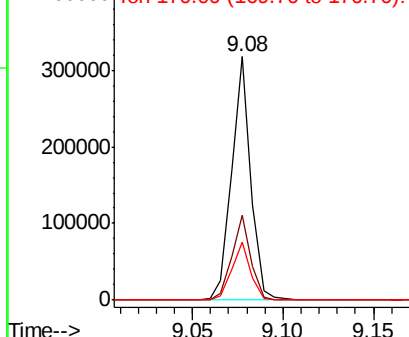


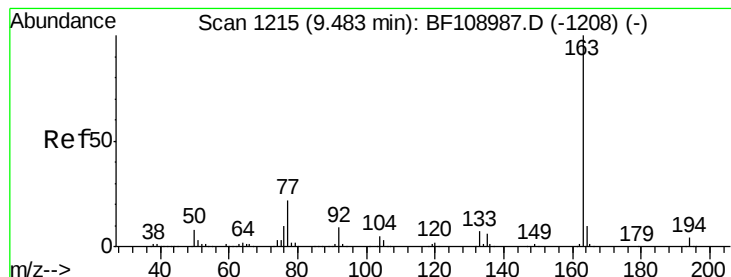
#44  
 2-Fluorobiphenyl  
 Concen: 19.912 ng  
 RT: 9.08 min Scan# 1146  
 Delta R.T. -0.01 min  
 Lab File: BF109145.D  
 Acq: 19 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.8  | 29.7  | 44.5  |
| 170     | 23.6  | 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: 2.514 ng

RT: 9.47 min Scan# 1213

Delta R.T. -0.01 min

Lab File: BF109145.D

Acq: 19 Sep 2018 16:02

Instrument :

BNA\_G

ClientSampled :

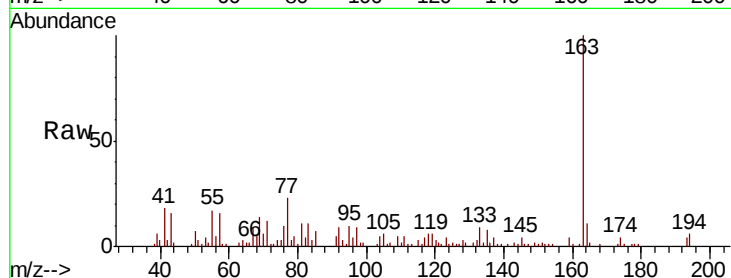
Tot Ion:163 Resp: 33012

Ion Ratio Lower Upper

163 100

194 6.0 2.7 4.1#

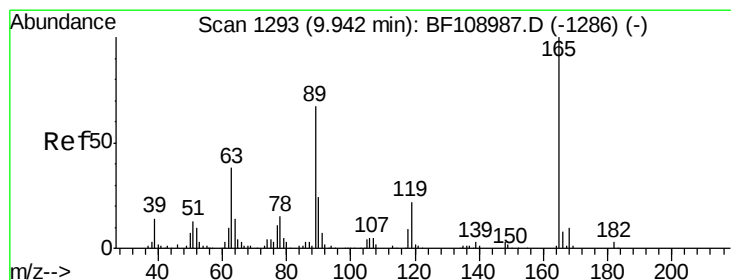
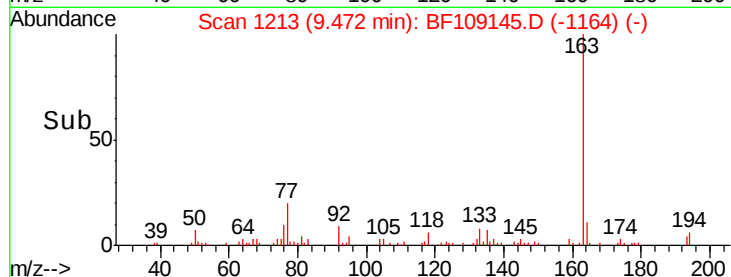
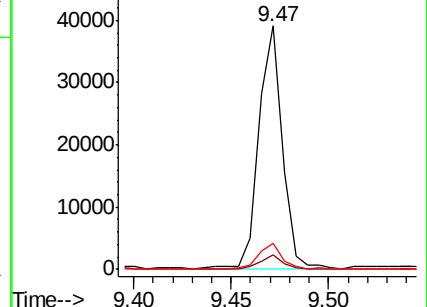
164 10.7 8.2 12.2



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



#56

2,4-Dinitrotoluene

Concen: 6.560 ng

RT: 9.75 min Scan# 1261

Delta R.T. -0.19 min

Lab File: BF109145.D

Acq: 19 Sep 2018 16:02

Tgt Ion:165 Resp: 24978

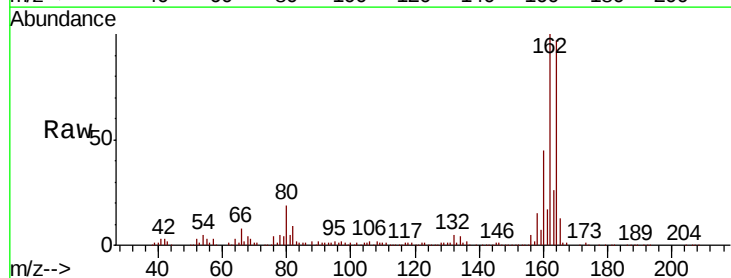
Ion Ratio Lower Upper

165 100

63 2.0 36.4 54.6#

89 2.0 57.8 86.6#

182 2.7 1.6 2.4#

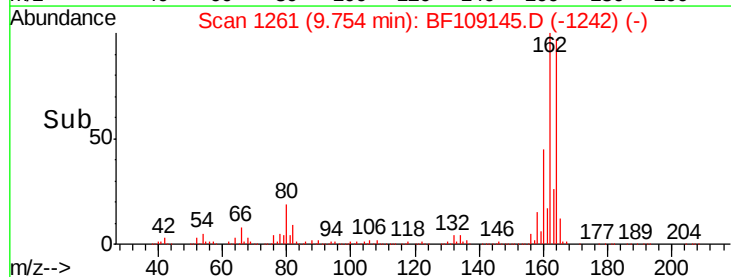
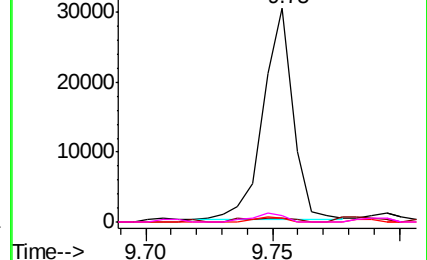


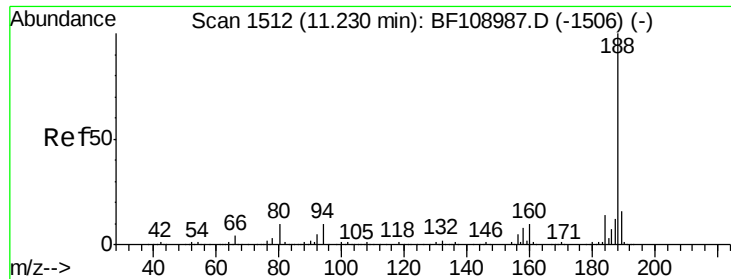
Abundance Ion 165.00 (164.70 to 165.70): E

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

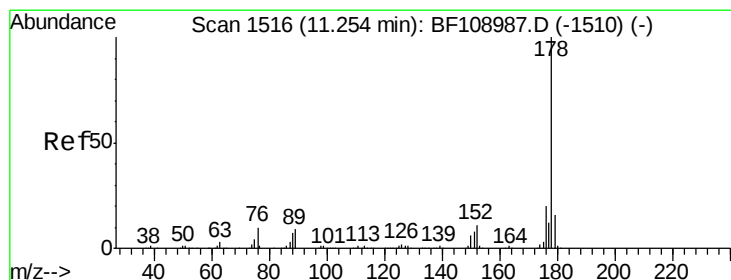
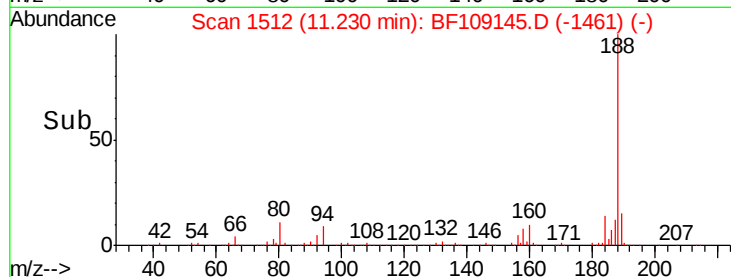
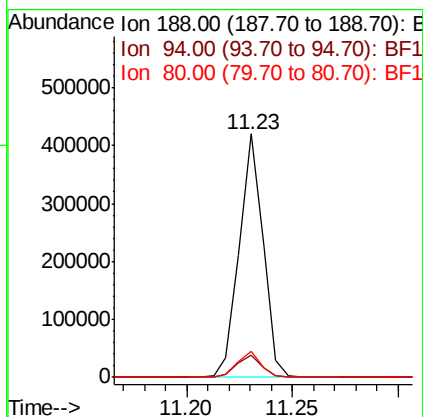
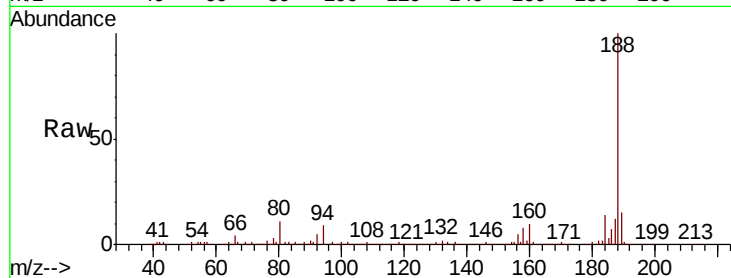




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1512  
Delta R.T. -0.00 min  
Lab File: BF109145.D  
Acq: 19 Sep 2018 16:02

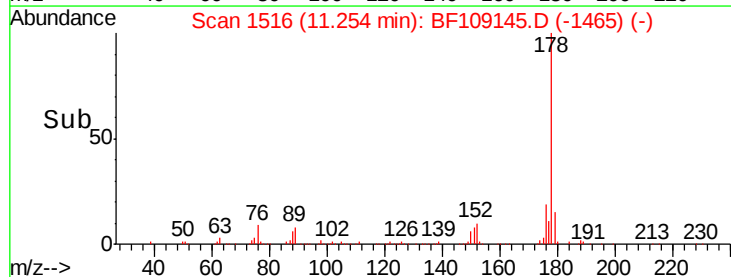
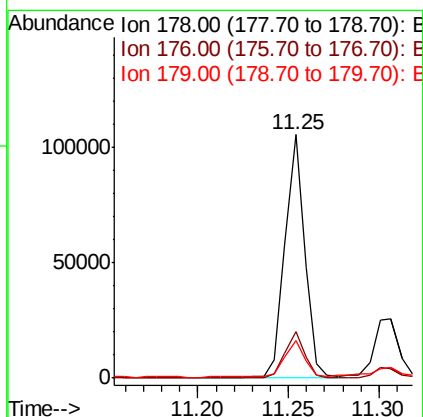
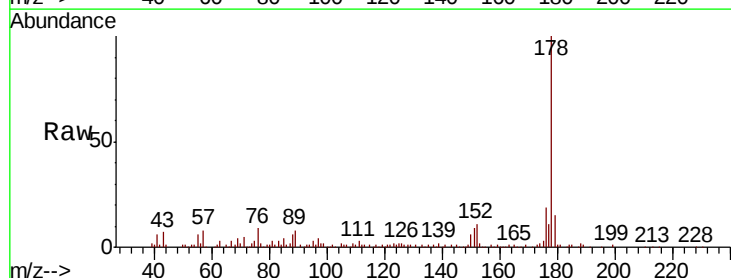
Instrument :  
BNA\_G  
ClientSampled :

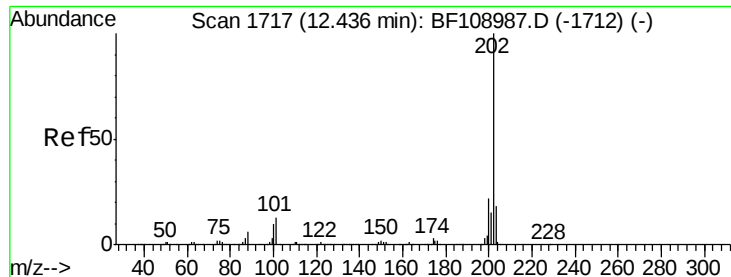
Tot Ion:188 Resp: 328472  
Ion Ratio Lower Upper  
188 100  
94 9.2 8.5 12.7  
80 10.7 9.2 13.8



#70  
Phenanthrene  
Concen: 5.036 ng  
RT: 11.25 min Scan# 1516  
Delta R.T. -0.00 min  
Lab File: BF109145.D  
Acq: 19 Sep 2018 16:02

Tgt Ion:178 Resp: 81082  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.8 23.8  
179 15.5 13.0 19.6





#74

Fluoranthene

Concen: 8.627 ng

RT: 12.44 min Scan# 1718

Delta R.T. 0.01 min

Lab File: BF109145.D

Acq: 19 Sep 2018 16:02

Instrument :

BNA\_G

ClientSampleId :

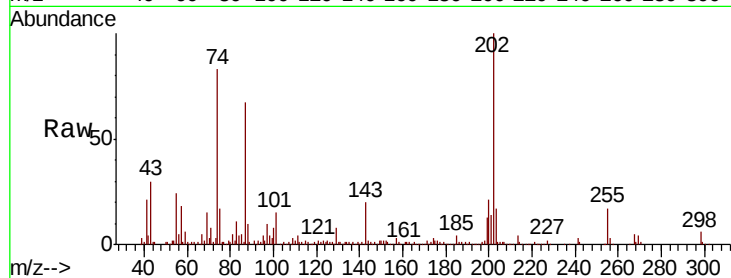
Tot Ion:202 Resp: 146645

Ion Ratio Lower Upper

202 100

101 15.4 0.0 34.1

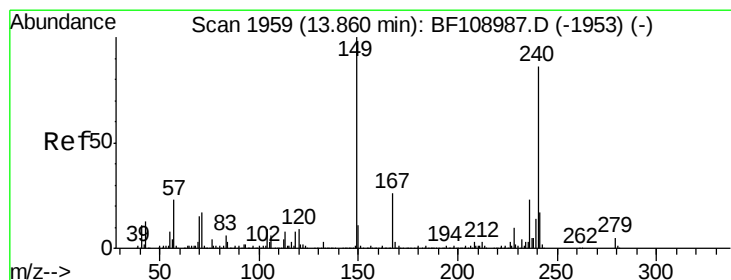
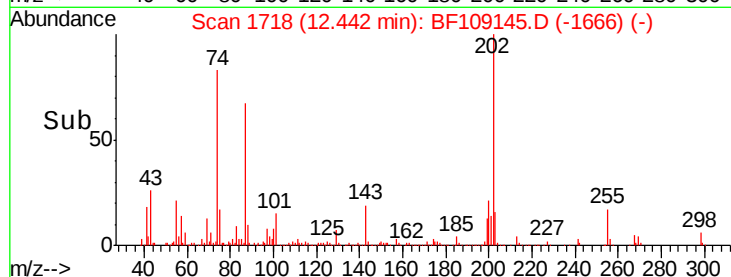
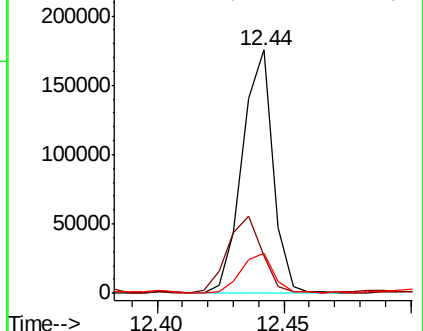
203 16.6 0.0 38.1



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: 20.000 ng

RT: 13.86 min Scan# 1959

Delta R.T. -0.00 min

Lab File: BF109145.D

Acq: 19 Sep 2018 16:02

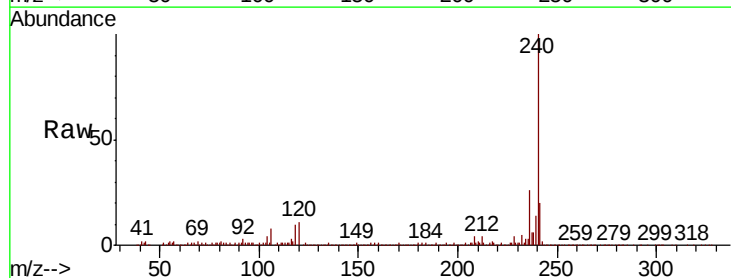
Tgt Ion:240 Resp: 353494

Ion Ratio Lower Upper

240 100

120 10.9 9.5 14.3

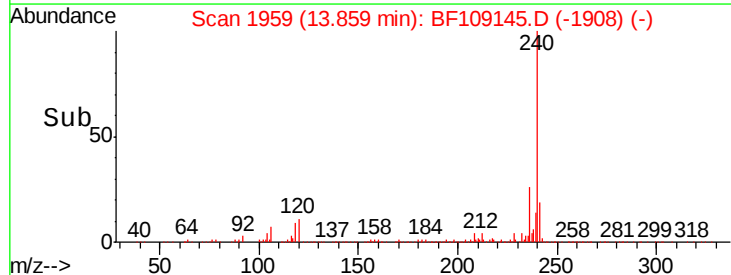
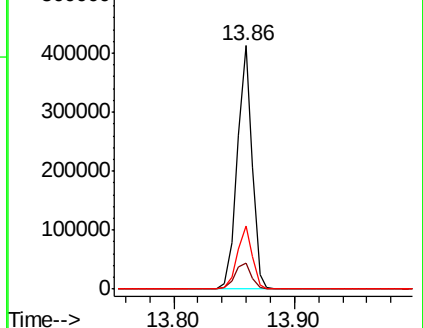
236 26.0 20.7 31.1

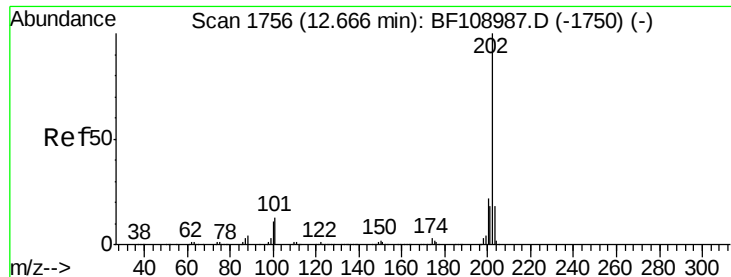


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 5.770 ng

RT: 12.67 min Scan# 1756

Delta R.T. -0.00 min

Lab File: BF109145.D

Acq: 19 Sep 2018 16:02

Instrument :

BNA\_G

ClientSampleId :

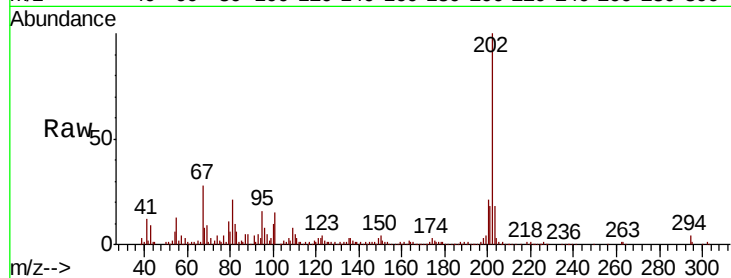
Tot Ion:202 Resp: 151495

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

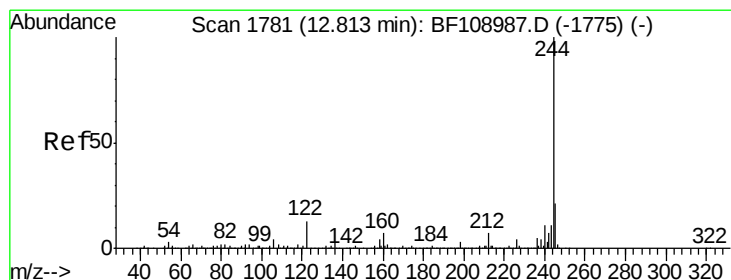
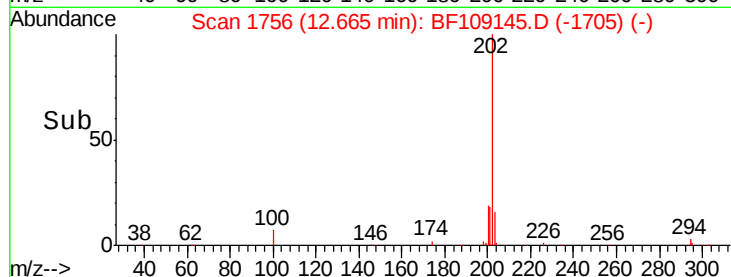
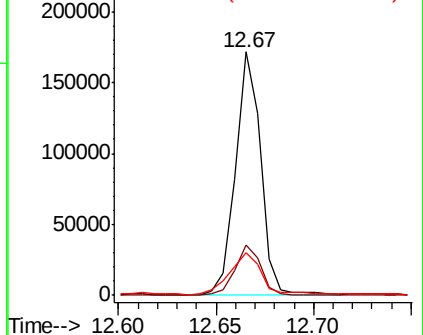
203 17.6 14.3 21.5



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



#78

Terphenyl-d14

Concen: 15.317 ng

RT: 12.81 min Scan# 1781

Delta R.T. -0.00 min

Lab File: BF109145.D

Acq: 19 Sep 2018 16:02

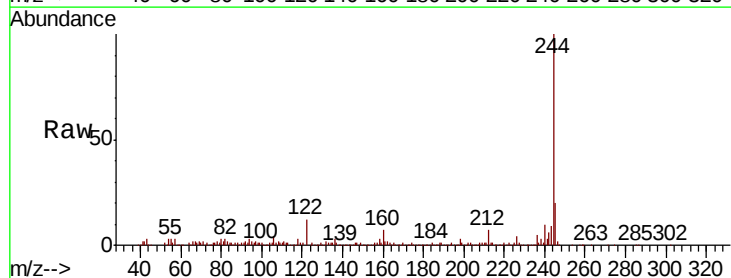
Tgt Ion:244 Resp: 228435

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

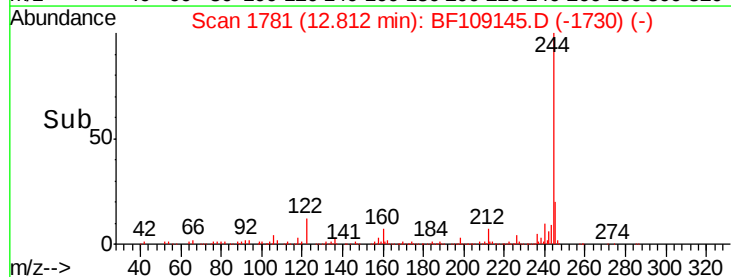
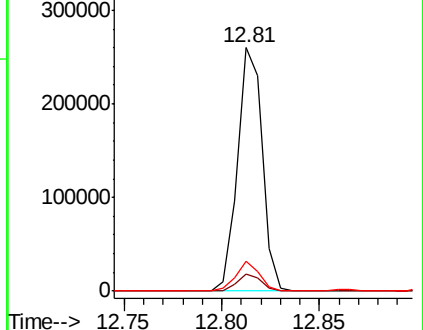
122 12.3 11.0 16.4

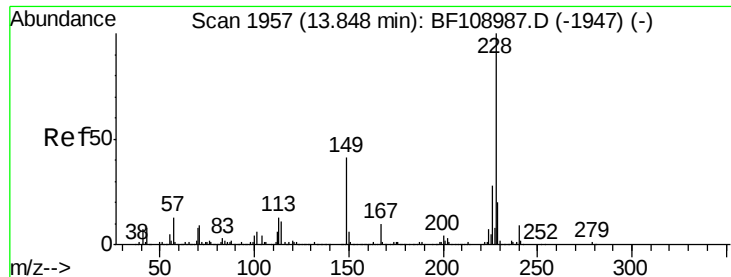


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 3.832 ng

RT: 13.85 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BF109145.D

Acq: 19 Sep 2018 16:02

Instrument :

BNA\_G

ClientSampled :

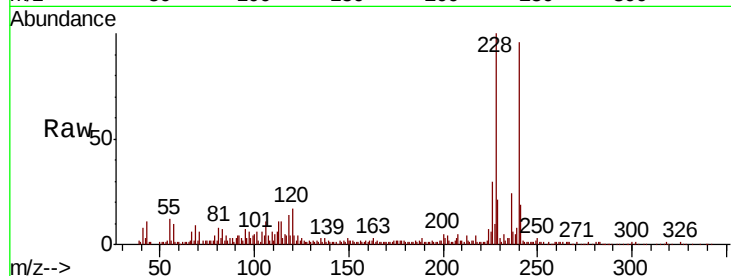
Tot Ion:228 Resp: 82019

Ion Ratio Lower Upper

228 100

226 29.8 22.6 33.8

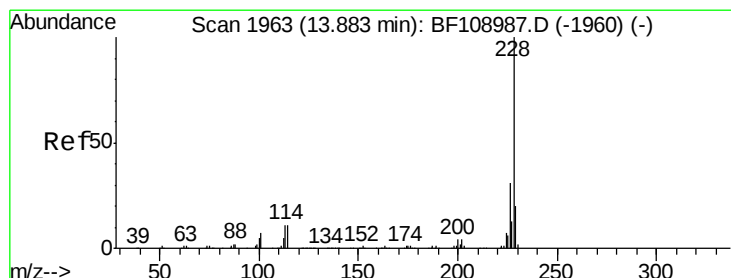
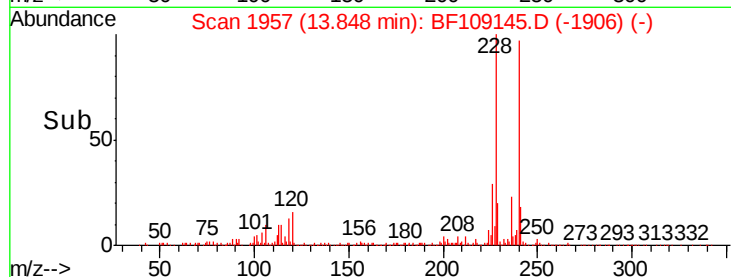
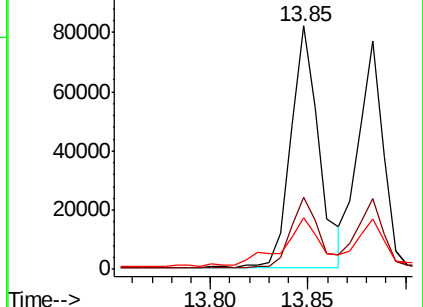
229 21.0 15.8 23.6



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: 3.184 ng

RT: 13.88 min Scan# 1963

Delta R.T. -0.00 min

Lab File: BF109145.D

Acq: 19 Sep 2018 16:02

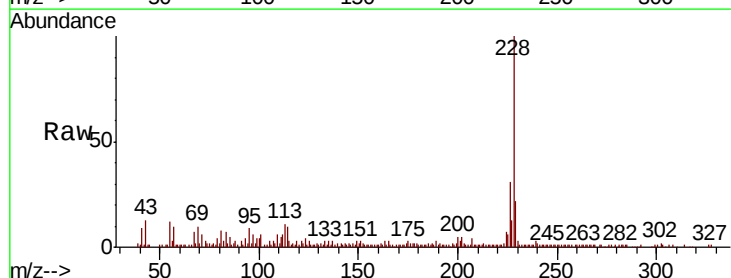
Tgt Ion:228 Resp: 68183

Ion Ratio Lower Upper

228 100

226 31.0 25.0 37.6

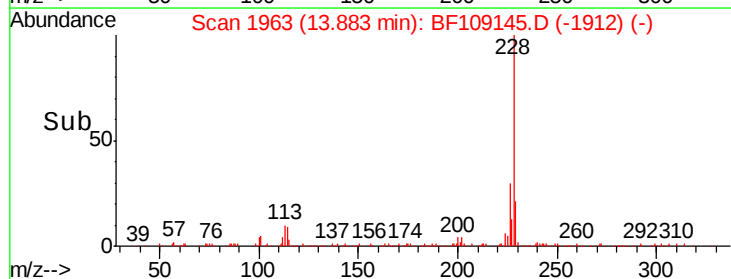
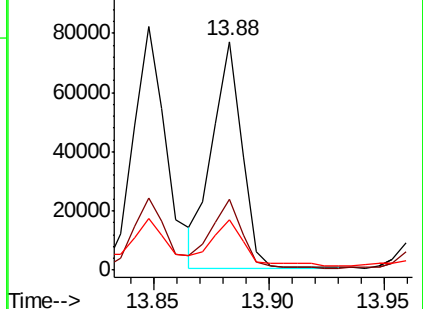
229 22.2 16.2 24.4

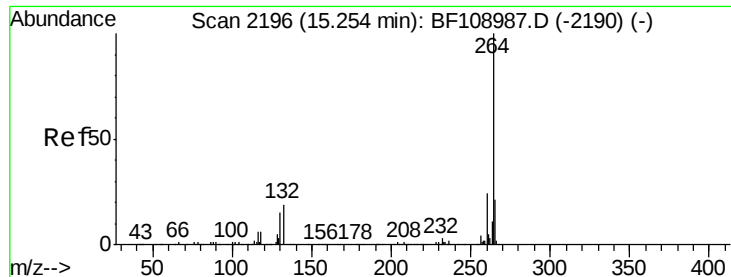


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

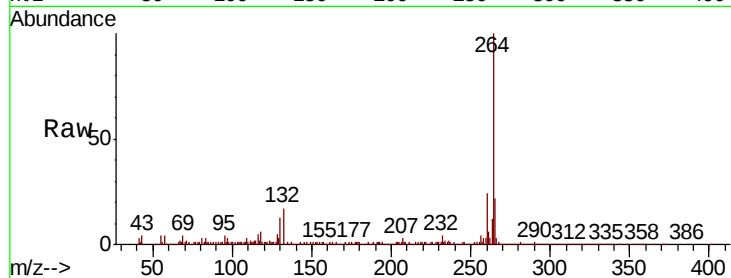




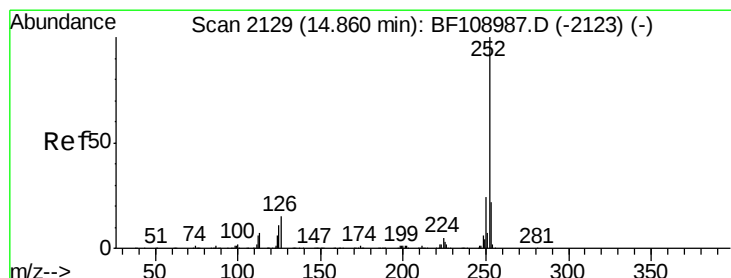
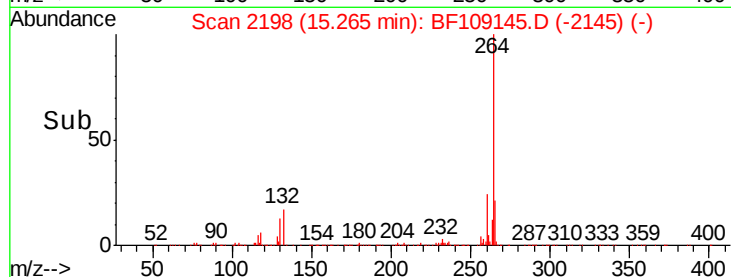
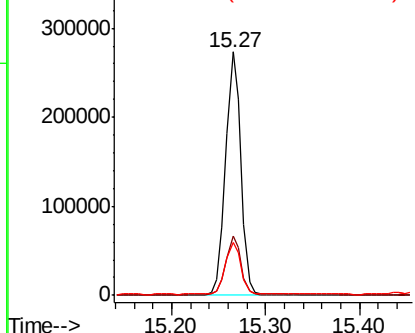
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.27 min Scan# 2198  
Delta R.T. 0.01 min  
Lab File: BF109145.D  
Acq: 19 Sep 2018 16:02

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.2  | 28.8  |
| 265     | 21.6  | 17.5  | 26.3  |

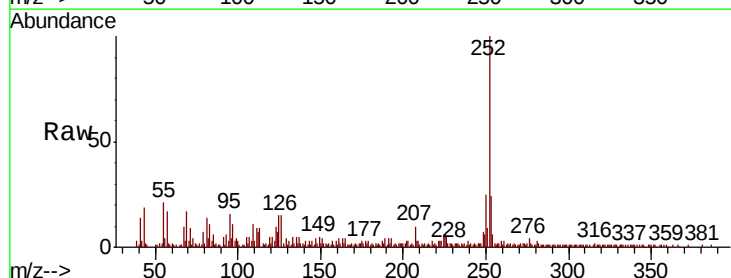


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

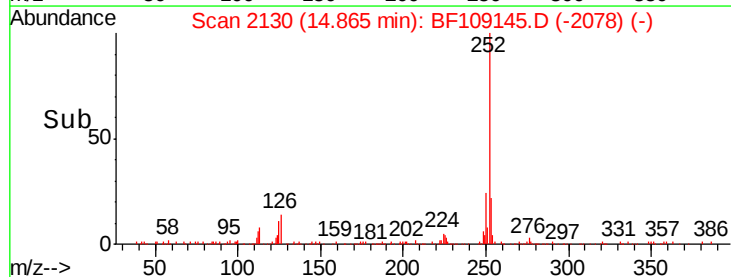
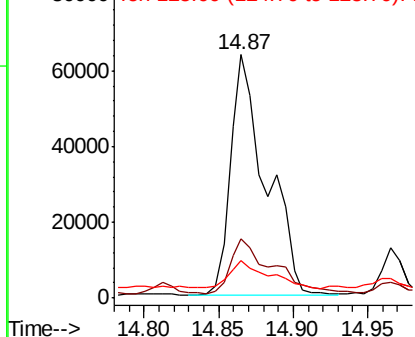


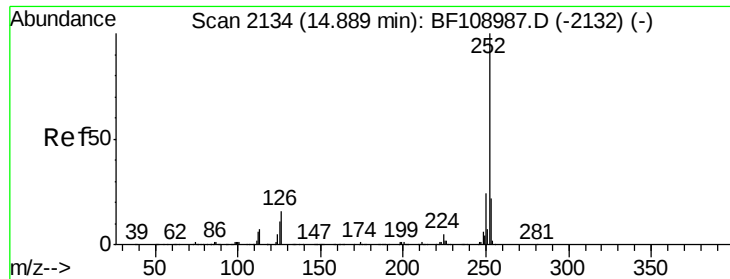
#87  
Benzo(b)fluoranthene  
Concen: 6.254 ng  
RT: 14.87 min Scan# 2130  
Delta R.T. 0.01 min  
Lab File: BF109145.D  
Acq: 19 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.0  | 25.6  |
| 125     | 15.4  | 9.0   | 13.6  |



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

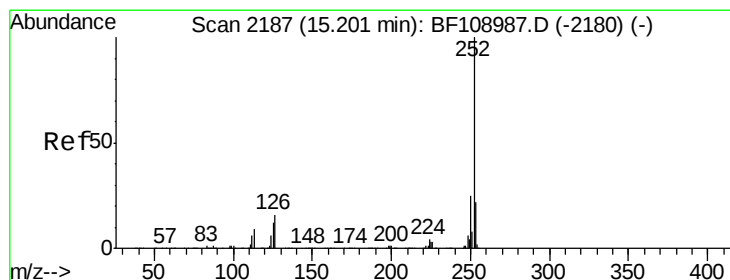
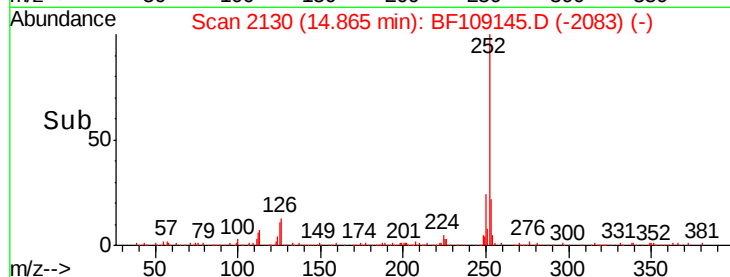
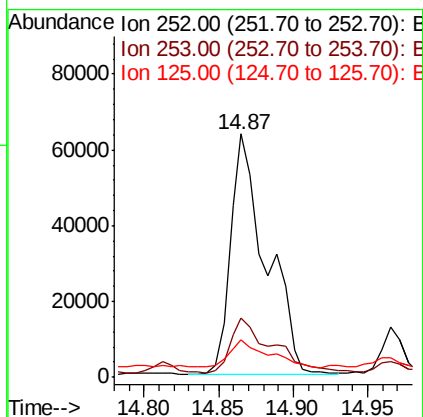
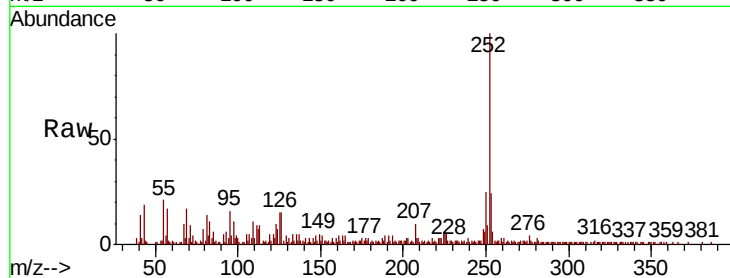




#88  
Benzo(k)fluoranthene  
Concen: 6.696 ng  
RT: 14.87 min Scan# 2130  
Delta R.T. -0.02 min  
Lab File: BF109145.D  
Acq: 19 Sep 2018 16:02

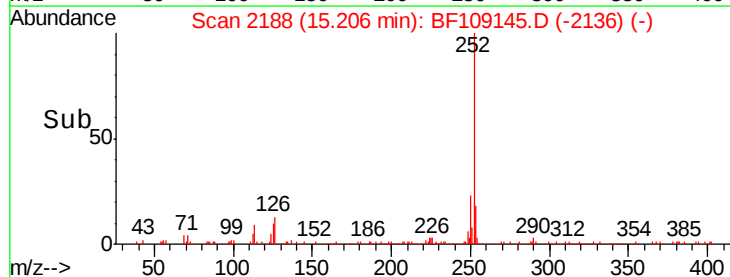
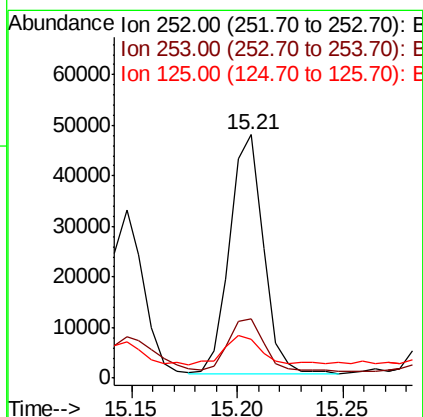
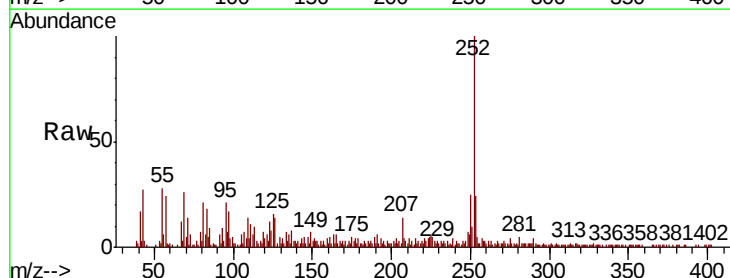
Instrument :  
BNA\_G  
ClientSampleId :

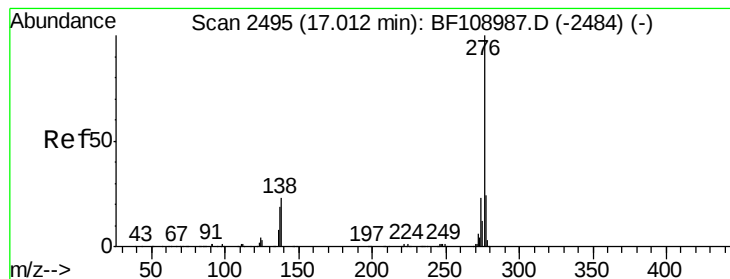
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.9  | 26.9  |
| 125     | 15.4  | 10.2  | 15.2# |



#89  
Benzo(a)pyrene  
Concen: 3.485 ng  
RT: 15.21 min Scan# 2188  
Delta R.T. 0.01 min  
Lab File: BF109145.D  
Acq: 19 Sep 2018 16:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 17.1  | 25.7  |
| 125     | 16.1  | 9.8   | 14.6# |





#91

Benzo(a,h,i)perylene

Concen: 2.005 ng

RT: 17.02 min Scan# 2497

Delta R.T. 0.01 min

Lab File: BF109145.D

Acq: 19 Sep 2018 16:02

Instrument :

BNA\_G

ClientSampleId :

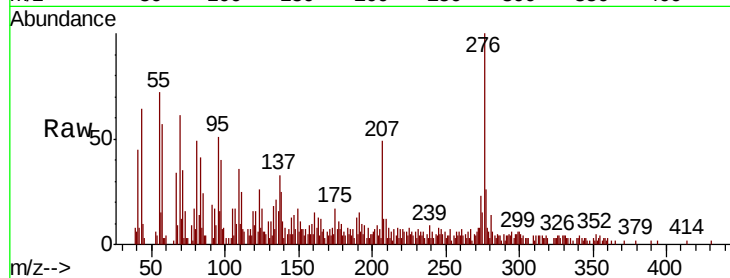
Tot Ion: 276 Resp: 25477

Ion Ratio Lower Upper

276 100

277 25.5 17.9 26.9

138 25.3 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

