

Data Path : Z:\HPCHEM1\BNA F\Data\BF050316\  
 Data File : BF086656.D  
 Acq On : 3 May 2016 20:45  
 Operator : UM/SJ  
 Sample : H2685-16 2X  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-1B-CS-2(0-16FTBGS)

Quant Time: May 04 10:04:50 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 27 14:20:52 2016  
 Response via : Initial Calibration

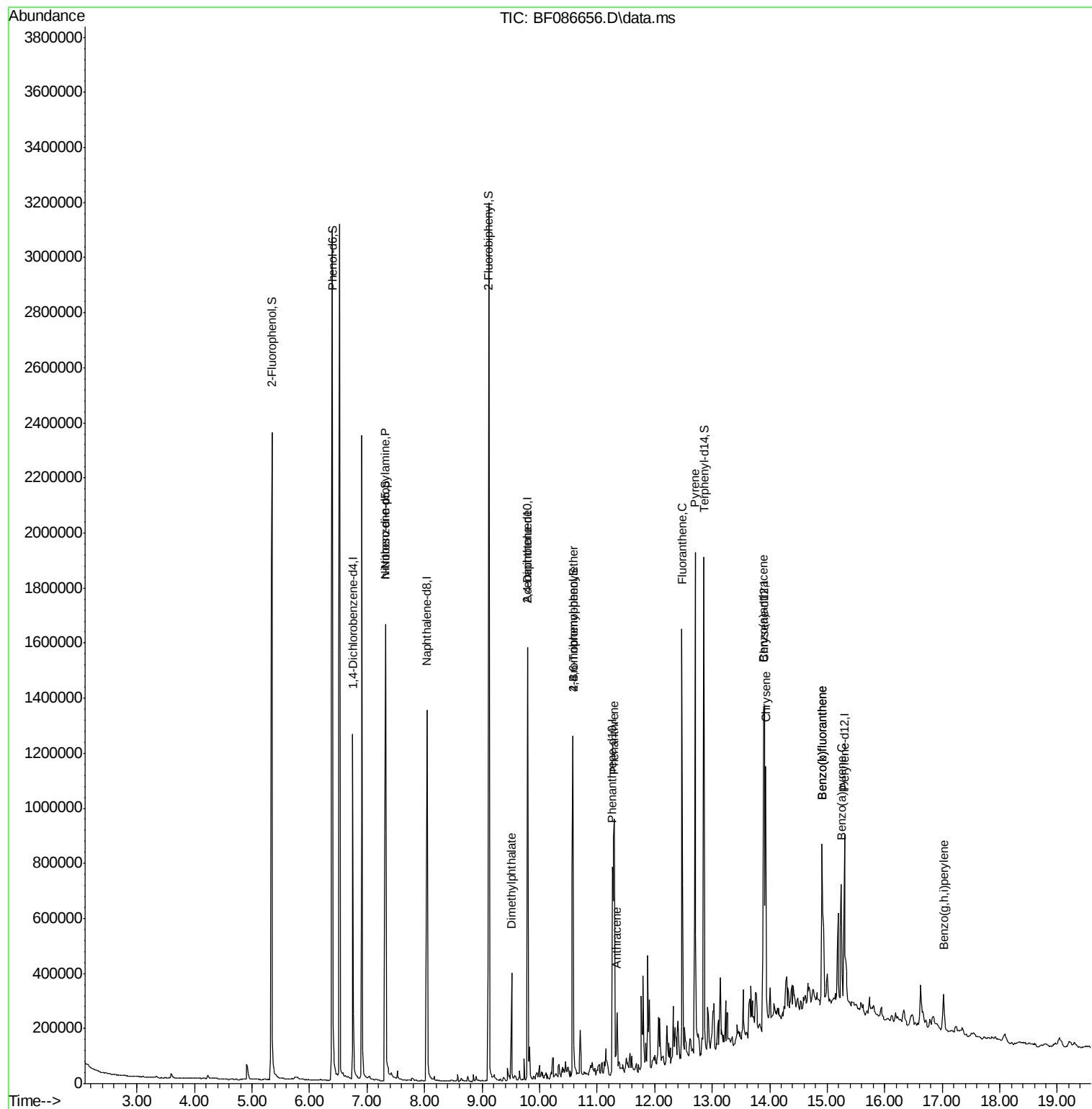
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.750  | 152  | 175291   | 20.00 | ng    | -0.06    |
| 21) Naphthalene-d8            | 8.042  | 136  | 685173   | 20.00 | ng    | -0.06    |
| 38) Acenaphthene-d10          | 9.790  | 164  | 285100   | 20.00 | ng    | -0.06    |
| 63) Phenanthrene-d10          | 11.265 | 188  | 404270   | 20.00 | ng    | -0.06    |
| 75) Chrysene-d12              | 13.905 | 240  | 354960   | 20.00 | ng    | -0.06    |
| 86) Perylene-d12              | 15.300 | 264  | 301192   | 20.00 | ng    | -0.06    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 5) 2-Fluorophenol             | 5.344  | 112  | 812319   | 79.93 | ng    | -0.04    |
| 7) Phenol-d6                  | 6.396  | 99   | 1147018  | 80.87 | ng    | -0.05    |
| 23) Nitrobenzene-d5           | 7.322  | 82   | 663225   | 52.17 | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol      | 10.579 | 330  | 171099   | 56.91 | ng    | -0.06    |
| 44) 2-Fluorobiphenyl          | 9.116  | 172  | 895424   | 49.20 | ng    | -0.06    |
| 78) Terphenyl-d14             | 12.854 | 244  | 543500   | 33.73 | ng    | -0.06    |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.322  | 70   | 89588    | 9.56  | ng    | # 80     |
| 49) Dimethylphthalate         | 9.516  | 163  | 177248   | 8.26  | ng    | 98       |
| 56) 2,4-Dinitrotoluene        | 9.790  | 165  | 37879    | 6.70  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether | 10.579 | 248  | 10081    | 2.42  | ng    | # 1      |
| 70) Phenanthrene              | 11.299 | 178  | 512472   | 24.16 | ng    | 98       |
| 71) Anthracene                | 11.345 | 178  | 111054   | 4.90  | ng    | 99       |
| 74) Fluoranthene              | 12.476 | 202  | 700633   | 32.72 | ng    | 100      |
| 77) Pyrene                    | 12.705 | 202  | 763557   | 29.85 | ng    | 99       |
| 80) Benzo(a)anthracene        | 13.894 | 228  | 334276   | 17.66 | ng    | 99       |
| 82) Chrysene                  | 13.928 | 228  | 315386   | 15.33 | ng    | 98       |
| 87) Benzo(b)fluoranthene      | 14.911 | 252  | 453085   | 25.57 | ng    | 97       |
| 88) Benzo(k)fluoranthene      | 14.911 | 252  | 453085   | 24.52 | ng    | 98       |
| 89) Benzo(a)pyrene            | 15.242 | 252  | 245881   | 14.70 | ng    | 98       |
| 91) Benzo(a,h,i)perylene      | 17.025 | 276  | 115661   | 8.43  | ng    | # 92     |
| -----                         |        |      |          |       |       |          |

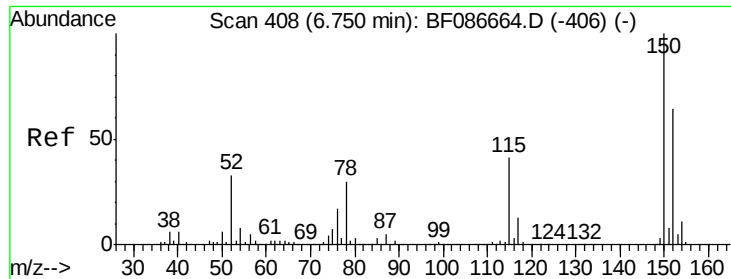
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 46 Sample Multiplier: 1

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Quant Time: May 04 10:04:50 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 27 14:20:52 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.750 min Scan# 40

Delta R.T. -0.057 min

Lab File: BF086656.D

Acq: 3 May 2016 20:45

Instrument :

BNA\_F

ClientSampleId :

26WARD-1B-CS-2(0-16FTBGS)

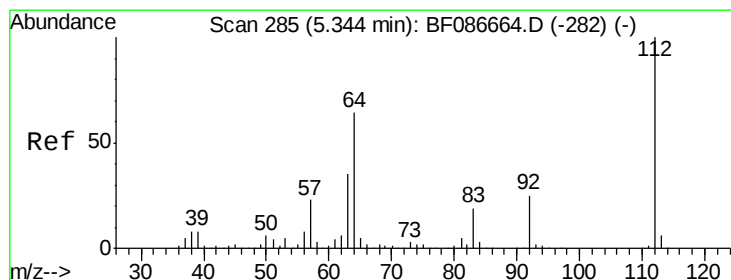
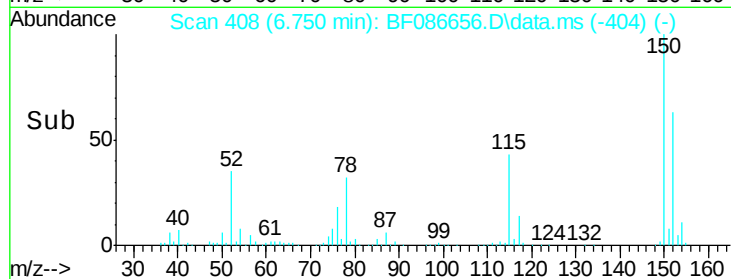
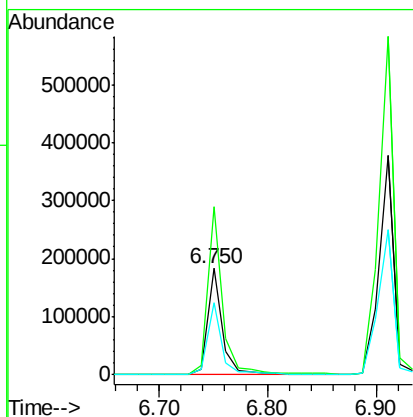
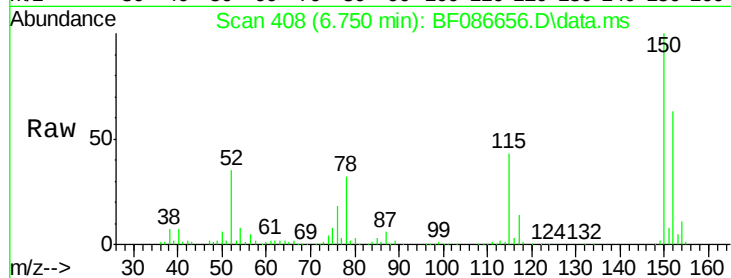
Tot Ion:152 Resp: 175291

Ion Ratio Lower Upper

152 100

150 158.5 125.8 188.6

115 68.1 51.5 77.3



#5

2-Fluorophenol

Concen: 79.93 ng

RT: 5.344 min Scan# 285

Delta R.T. -0.045 min

Lab File: BF086656.D

Acq: 3 May 2016 20:45

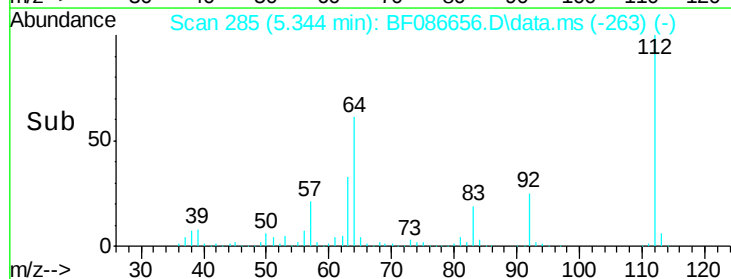
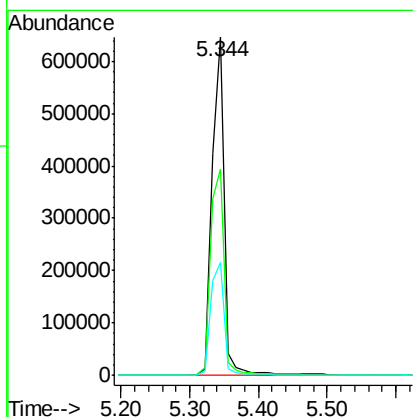
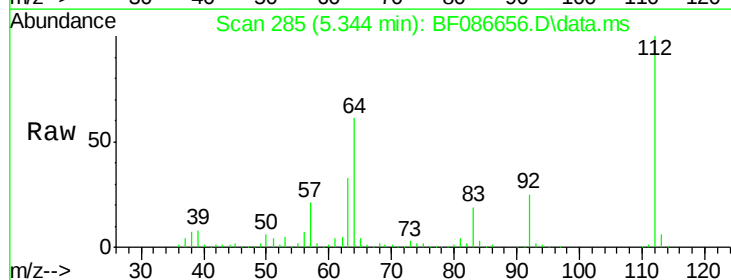
Tgt Ion:112 Resp: 812319

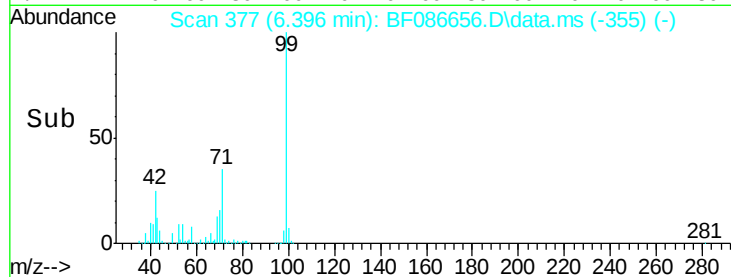
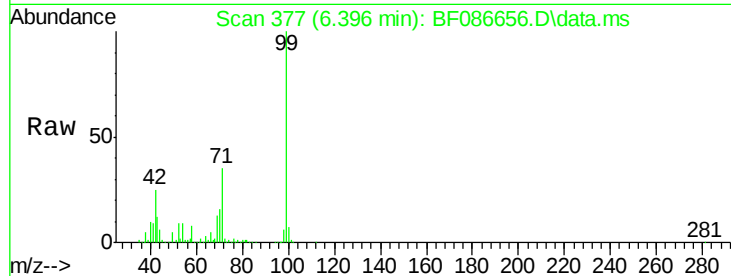
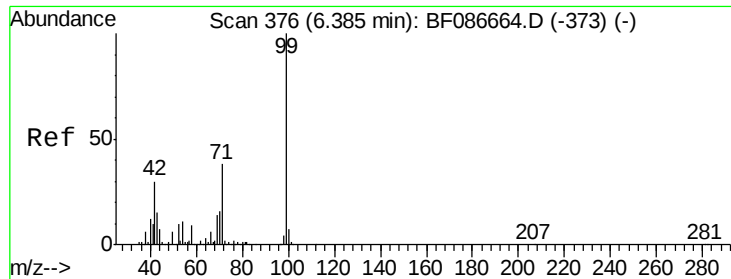
Ion Ratio Lower Upper

112 100

64 61.0 52.1 78.1

63 33.2 25.7 38.5





#7

Phenol-d6

Concen: 80.87 ng

RT: 6.396 min Scan# 37

Delta R.T. -0.045 min

Lab File: BF086656.D

Acq: 3 May 2016 20:45

Instrument :

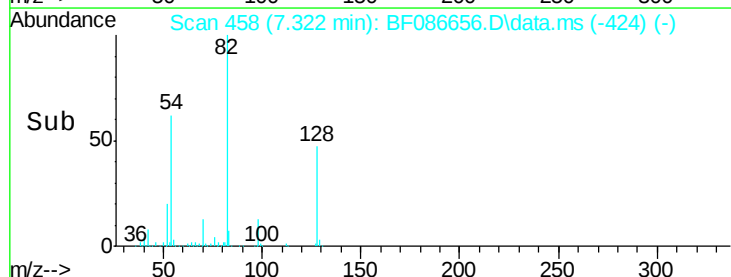
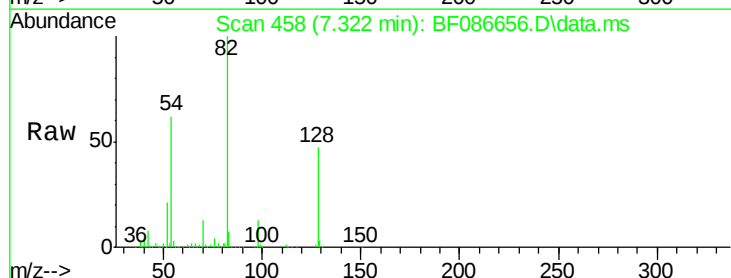
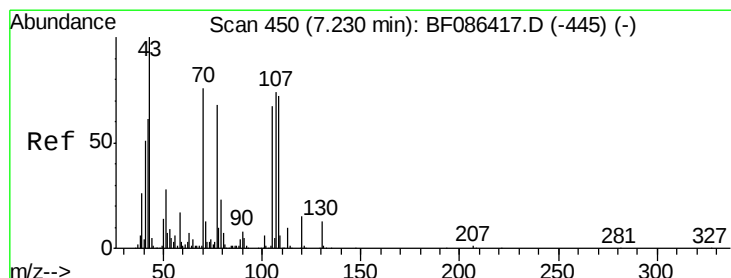
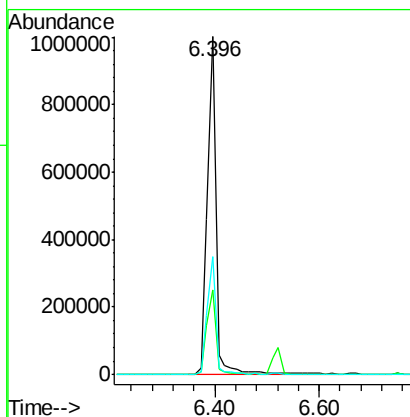
BNA\_F

ClientSampleId :

26WARD-1B-CS-2(0-16FTBGS)

Tot Ion: 99 Resp: 1147018

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 25.2  | 13.6  | 20.4# |
| 71  | 34.9  | 24.6  | 36.8  |



#19

n-Nitroso-di-n-propylamine

Concen: 9.56 ng

RT: 7.322 min Scan# 458

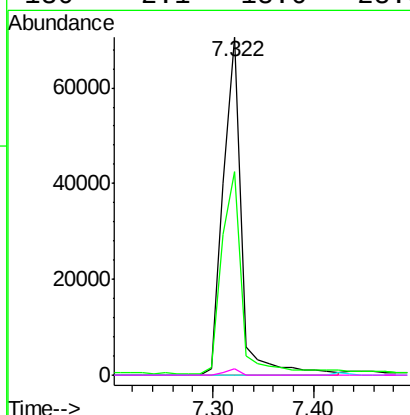
Delta R.T. 0.092 min

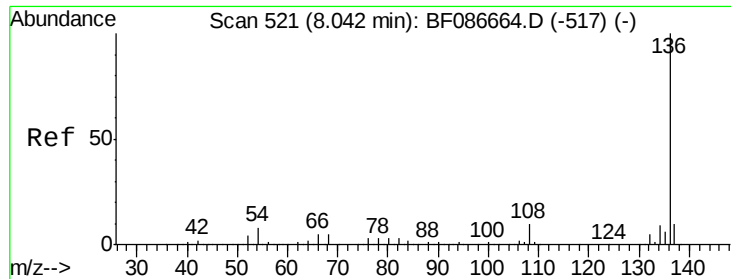
Lab File: BF086656.D

Acq: 3 May 2016 20:45

Tgt Ion: 70 Resp: 89588

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 60.2  | 43.1  | 64.7  |
| 101 | 0.0   | 8.1   | 12.1# |
| 130 | 2.1   | 18.6  | 28.0# |

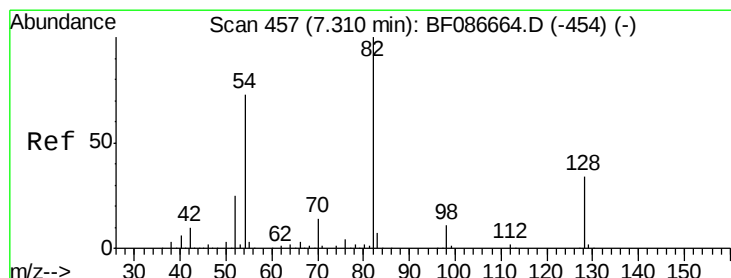
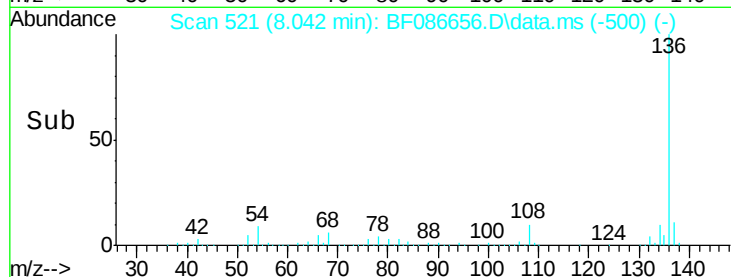
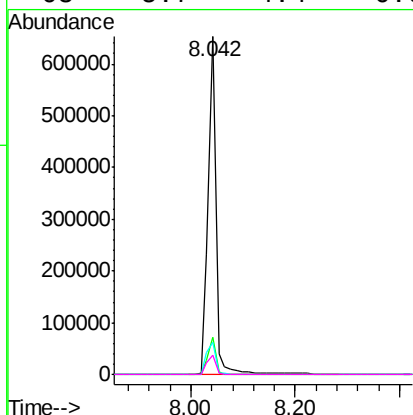
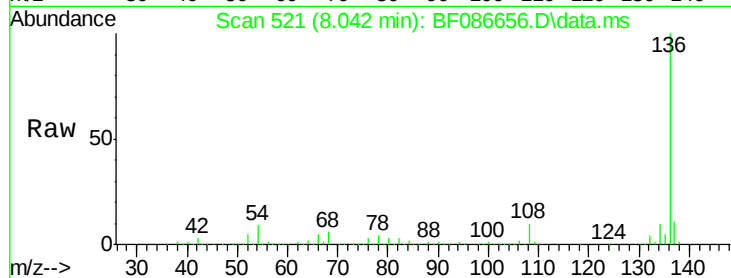




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.042 min Scan# 521  
Delta R.T. -0.057 min  
Lab File: BF086656.D  
Acq: 3 May 2016 20:45

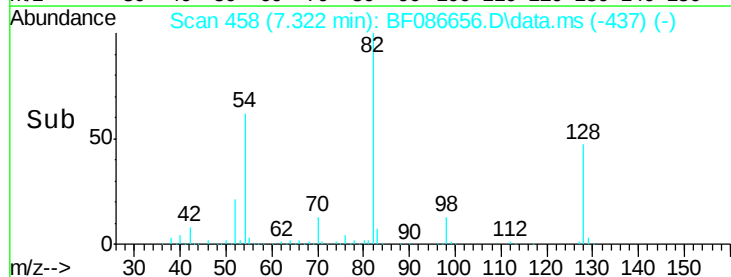
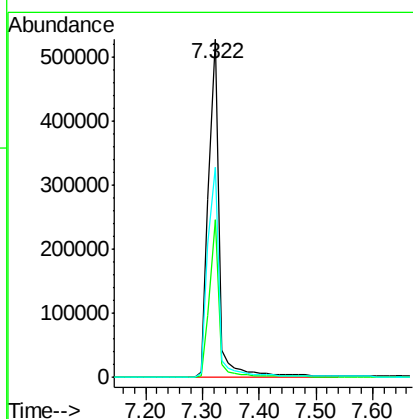
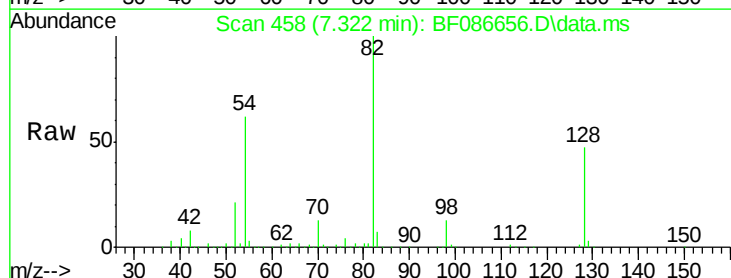
Instrument :  
BNA\_F  
ClientSampleId :  
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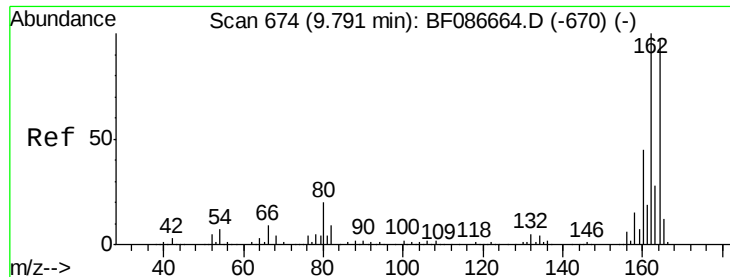
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 136   | Resp: | 685173 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.9  | 8.8   | 13.2   |
| 54        | 9.5   | 5.0   | 7.4#   |
| 68        | 5.7   | 4.4   | 6.6    |



#23  
Nitrobenzene-d5  
Concen: 52.17 ng  
RT: 7.322 min Scan# 458  
Delta R.T. -0.057 min  
Lab File: BF086656.D  
Acq: 3 May 2016 20:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 663225 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 46.7  | 40.6  | 61.0   |
| 54        | 62.1  | 38.1  | 57.1#  |

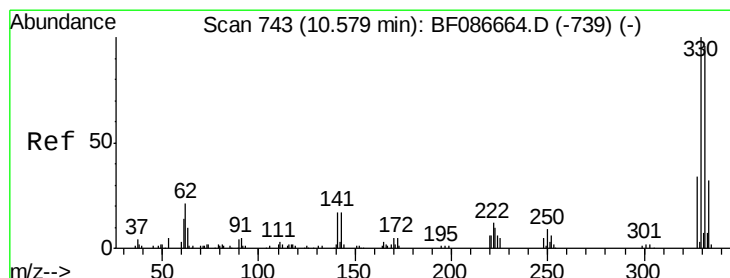
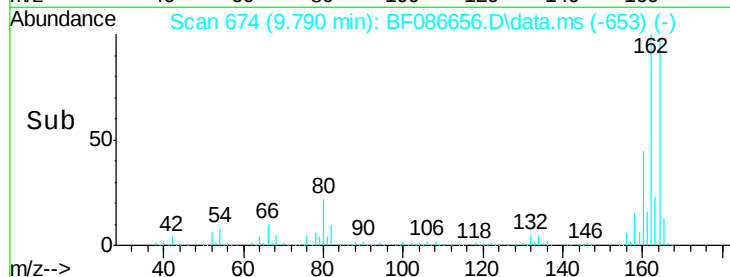
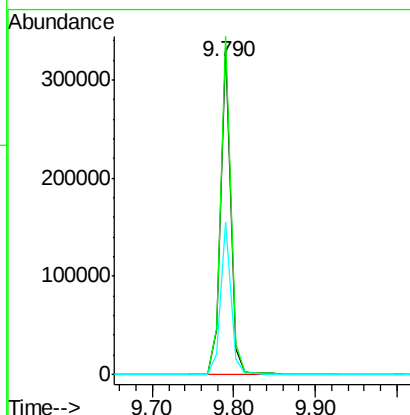
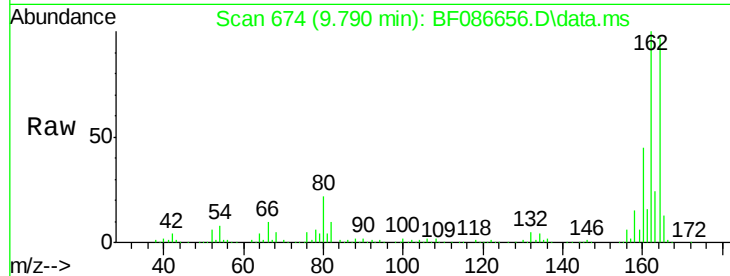




#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.790 min Scan# 67  
Delta R.T. -0.057 min  
Lab File: BF086656.D  
Acq: 3 May 2016 20:45

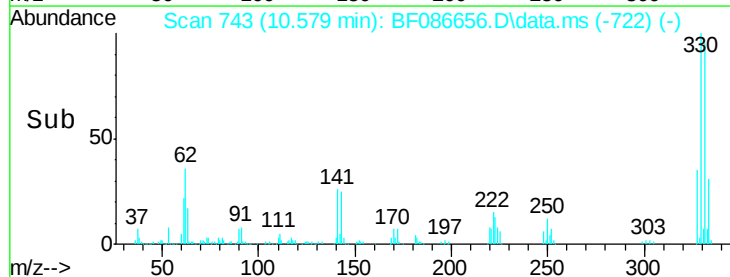
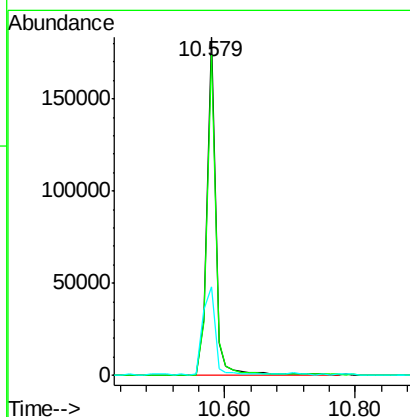
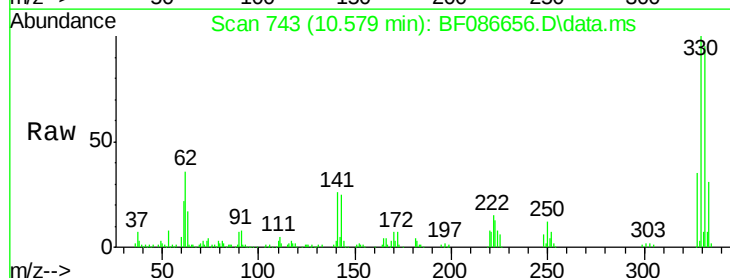
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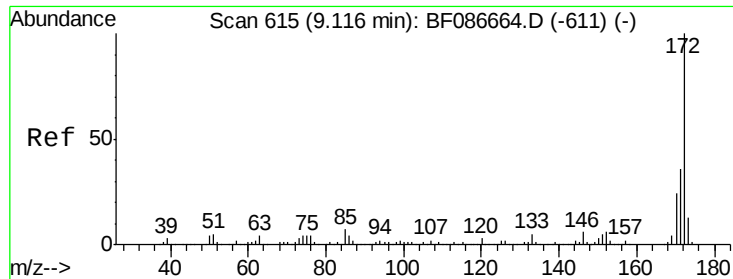
Tot Ion:164 Resp: 285100  
Ion Ratio Lower Upper  
164 100  
162 103.6 82.8 124.2  
160 46.9 36.9 55.3



#41  
2,4,6-Tribromophenol  
Concen: 56.91 ng  
RT: 10.579 min Scan# 743  
Delta R.T. -0.057 min  
Lab File: BF086656.D  
Acq: 3 May 2016 20:45

Tgt Ion:330 Resp: 171099  
Ion Ratio Lower Upper  
330 100  
332 95.1 79.0 118.4  
141 38.0 31.2 46.8

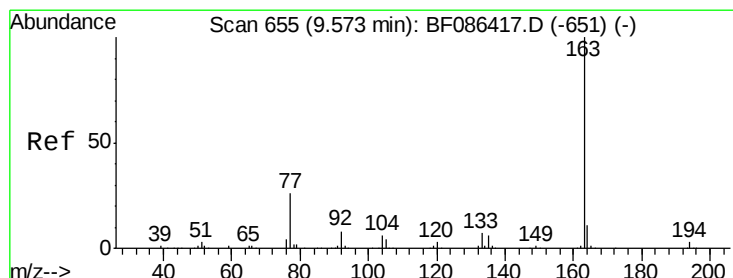
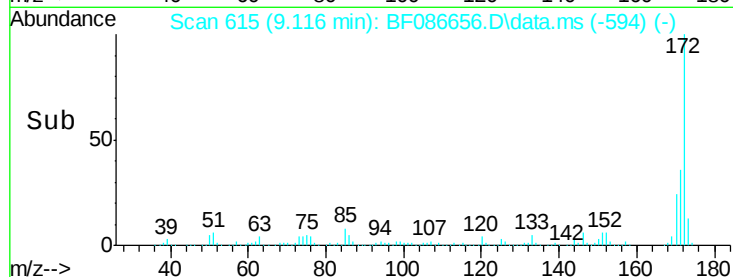
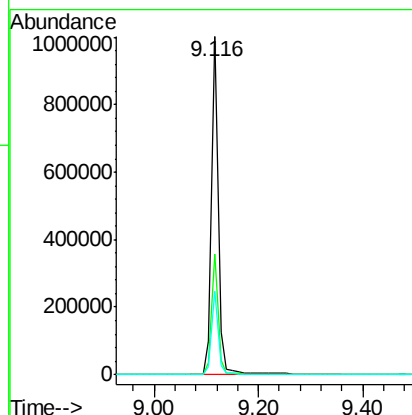
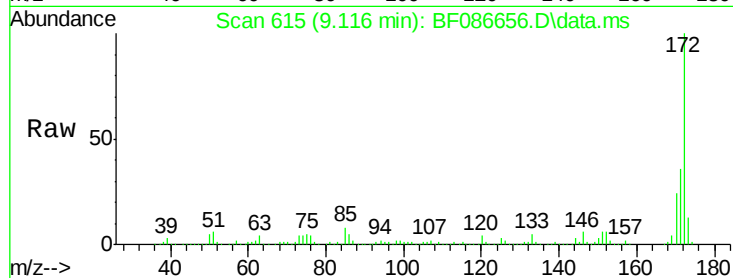




#44  
2-Fluorobiphenyl  
Concen: 49.20 ng  
RT: 9.116 min Scan# 61  
Delta R.T. -0.057 min  
Lab File: BF086656.D  
Acq: 3 May 2016 20:45

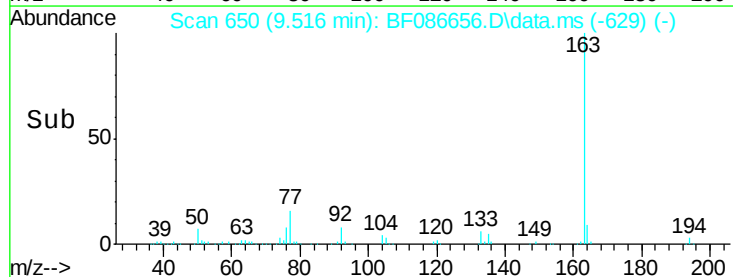
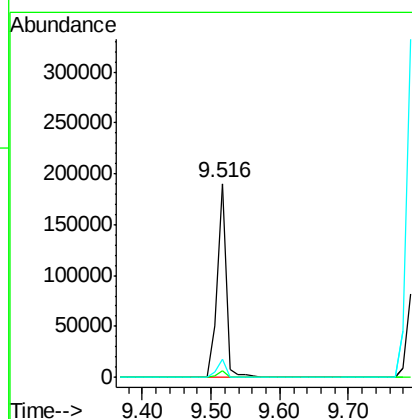
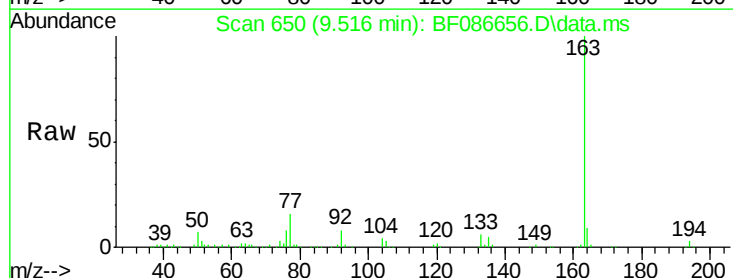
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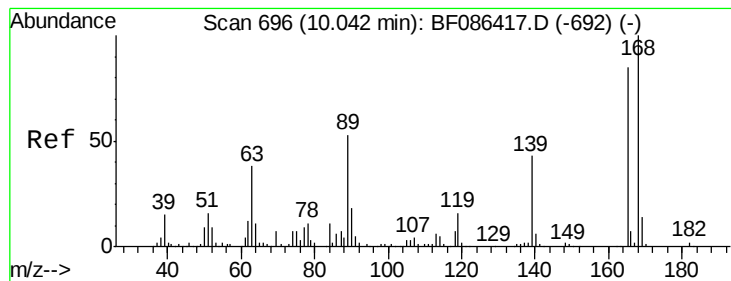
Tot Ion:172 Resp: 895424  
Ion Ratio Lower Upper  
172 100  
171 35.8 29.0 43.6  
170 24.5 19.8 29.8



#49  
Dimethylphthalate  
Concen: 8.26 ng  
RT: 9.516 min Scan# 650  
Delta R.T. -0.057 min  
Lab File: BF086656.D  
Acq: 3 May 2016 20:45

Tgt Ion:163 Resp: 177248  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.6 4.0  
164 9.4 8.2 12.4

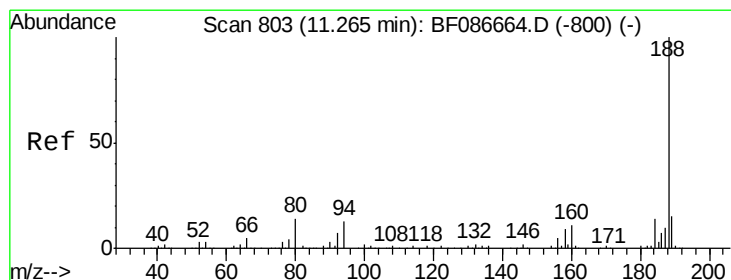
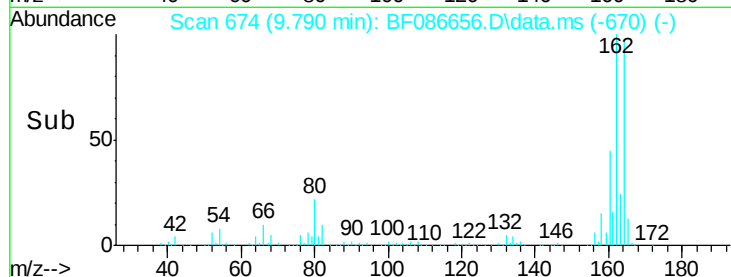
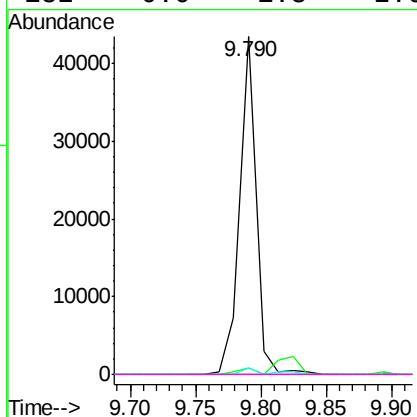
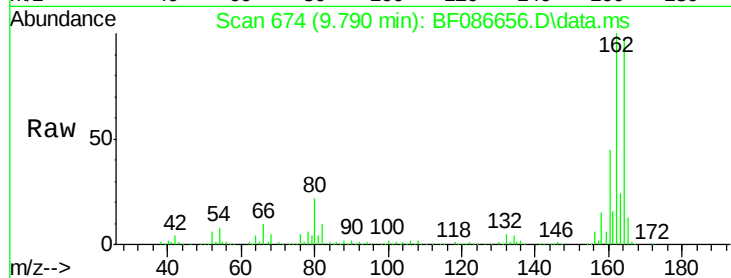




#56  
 2,4-Dinitrotoluene  
 Concen: 6.70 ng  
 RT: 9.790 min Scan# 67  
 Delta R.T. -0.251 min  
 Lab File: BF086656.D  
 Acq: 3 May 2016 20:45

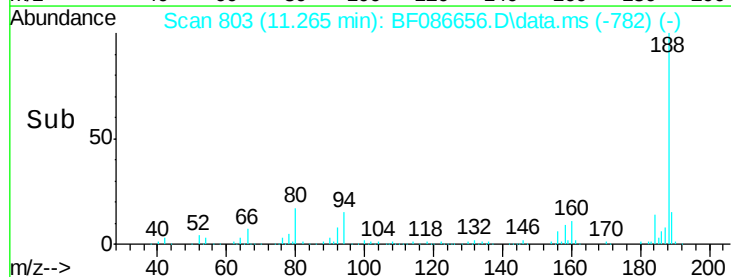
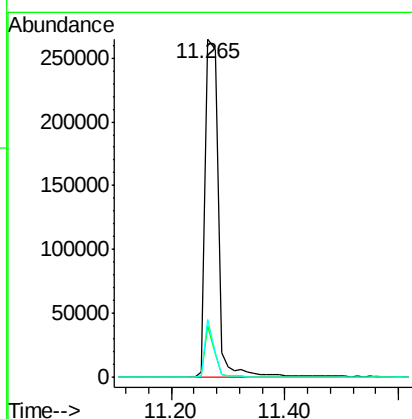
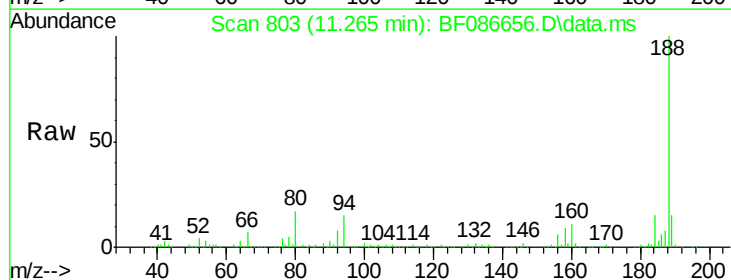
Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-1B-CS-2(0-16FTBGS)

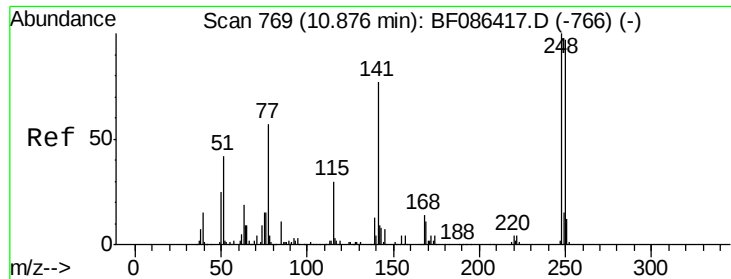
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 1.9   | 44.3  | 66.5#  |
| 89      | 2.1   | 70.0  | 105.0# |
| 182     | 0.0   | 1.8   | 2.6#   |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.265 min Scan# 803  
 Delta R.T. -0.057 min  
 Lab File: BF086656.D  
 Acq: 3 May 2016 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 15.1  | 6.8   | 10.2# |
| 80      | 17.0  | 7.1   | 10.7# |

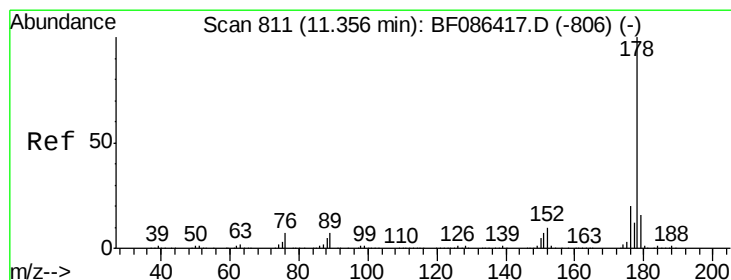
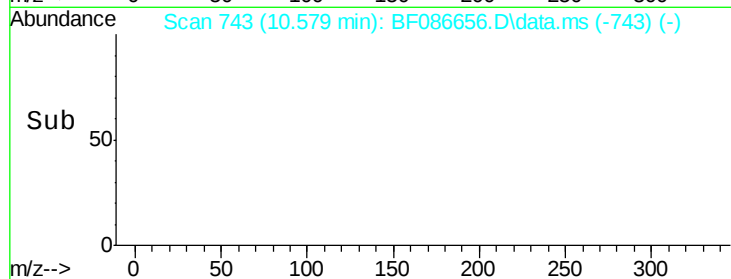
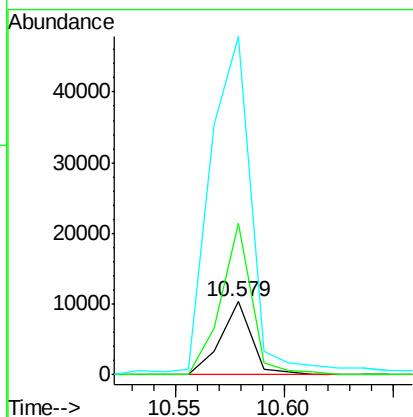
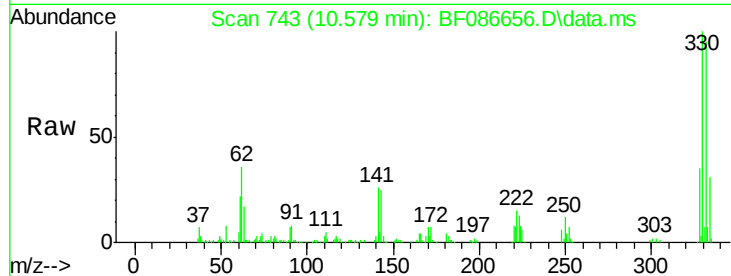




#66  
4-Bromophenyl-phenylether  
Concen: 2.42 ng  
RT: 10.579 min Scan# 74  
Delta R.T. -0.297 min  
Lab File: BF086656.D  
Acq: 3 May 2016 20:45

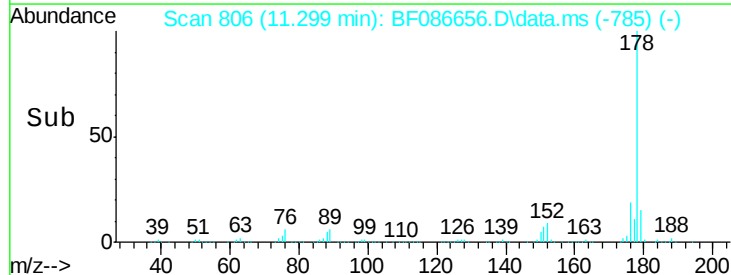
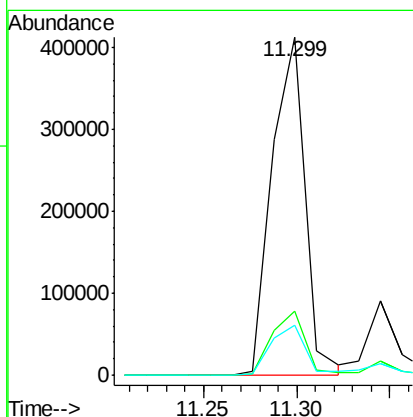
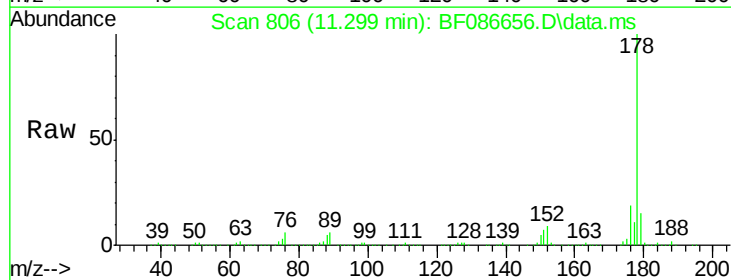
Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-1B-CS-2(0-16FTBGS)

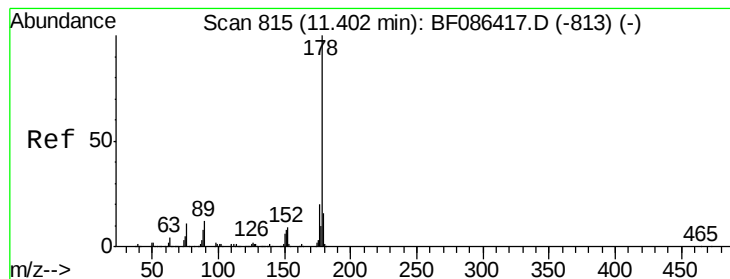
Tot Ion:248 Resp: 10081  
Ion Ratio Lower Upper  
248 100  
250 206.9 78.6 117.8#  
141 464.1 76.0 114.0#



#70  
Phenanthrene  
Concen: 24.16 ng  
RT: 11.299 min Scan# 806  
Delta R.T. -0.057 min  
Lab File: BF086656.D  
Acq: 3 May 2016 20:45

Tgt Ion:178 Resp: 512472  
Ion Ratio Lower Upper  
178 100  
176 19.1 16.0 24.0  
179 14.8 12.6 18.8





#71

Anthracene

Concen: 4.90 ng

RT: 11.345 min Scan# 81

Delta R.T. -0.057 min

Lab File: BF086656.D

Acq: 3 May 2016 20:45

Instrument :

BNA\_F

ClientSampleId :

26WARD-1B-CS-2(0-16FTBGS)

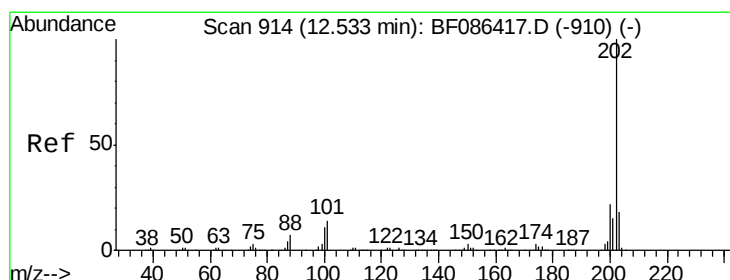
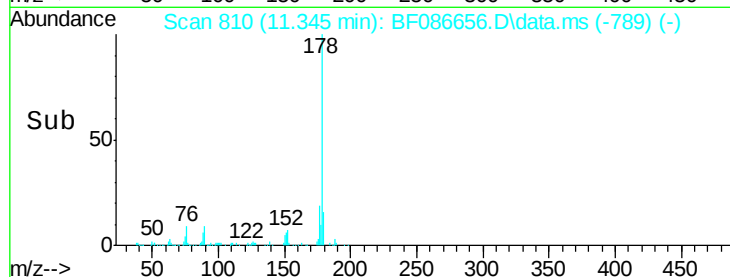
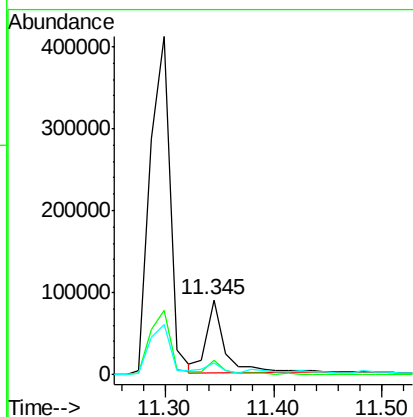
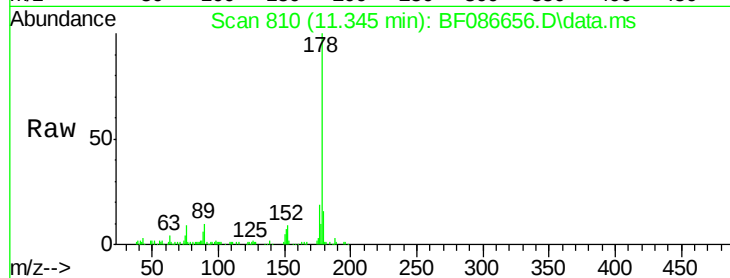
Tot Ion:178 Resp: 111054

Ion Ratio Lower Upper

178 100

176 18.6 15.6 23.4

179 16.1 12.7 19.1



#74

Fluoranthene

Concen: 32.72 ng

RT: 12.476 min Scan# 909

Delta R.T. -0.057 min

Lab File: BF086656.D

Acq: 3 May 2016 20:45

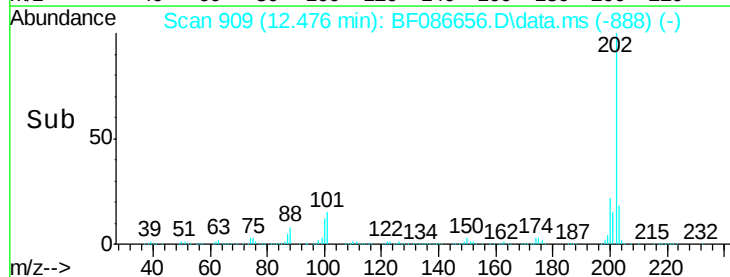
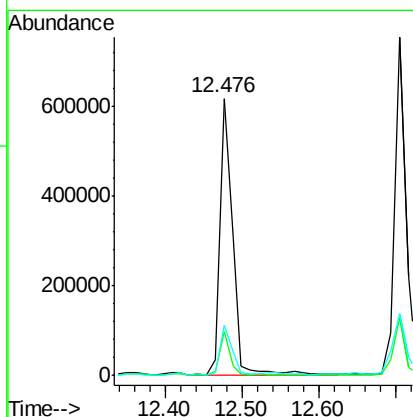
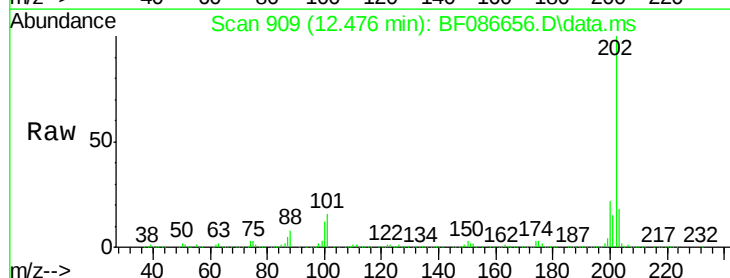
Tgt Ion:202 Resp: 700633

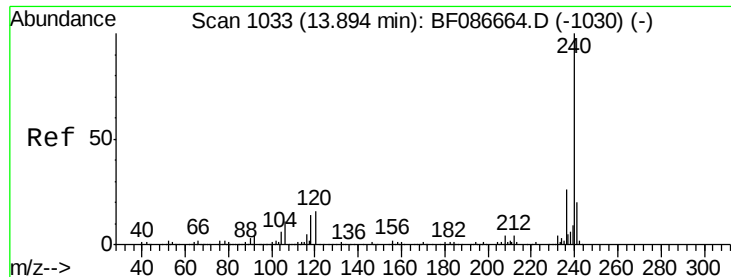
Ion Ratio Lower Upper

202 100

101 15.6 0.0 35.4

203 18.1 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.905 min Scan# 10

Delta R.T. -0.057 min

Lab File: BF086656.D

Acq: 3 May 2016 20:45

Instrument :

BNA\_F

ClientSampleId :

26WARD-1B-CS-2(0-16FTBGS)

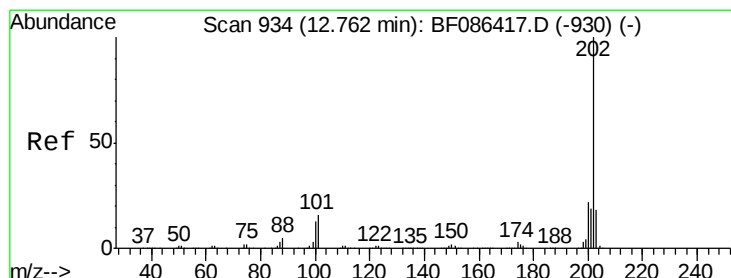
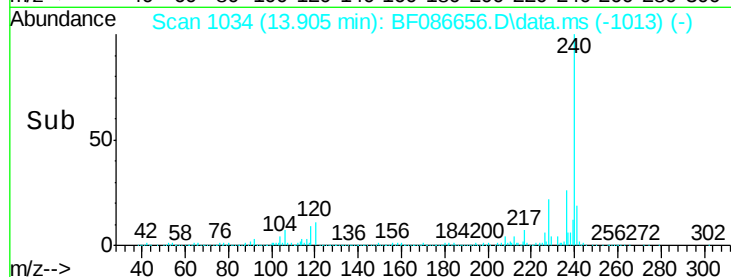
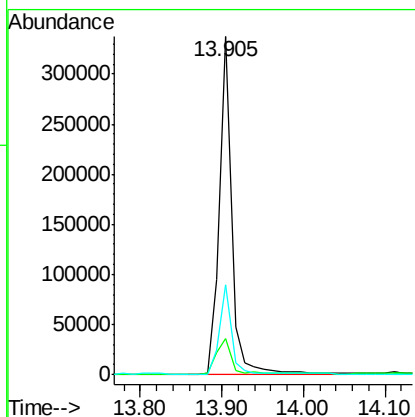
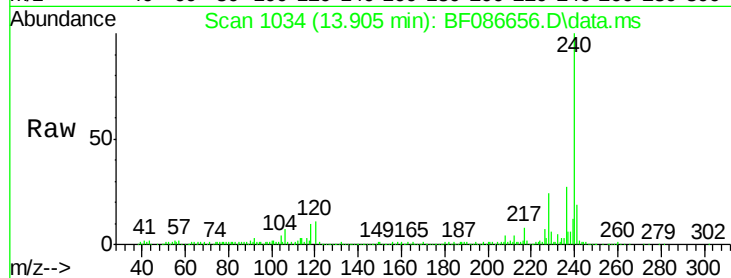
Tot Ion:240 Resp: 354960

Ion Ratio Lower Upper

240 100

120 10.8 11.2 16.8#

236 26.6 21.2 31.8



#77

Pyrene

Concen: 29.85 ng

RT: 12.705 min Scan# 929

Delta R.T. -0.057 min

Lab File: BF086656.D

Acq: 3 May 2016 20:45

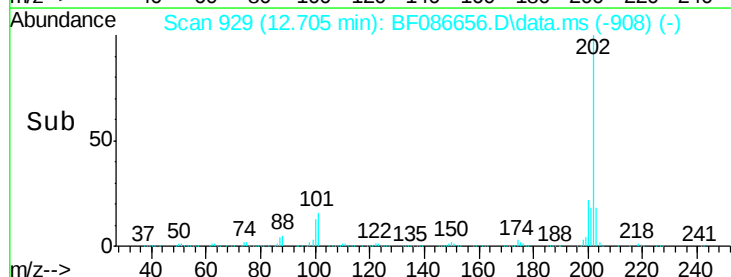
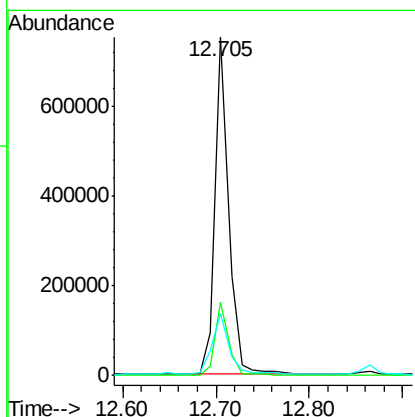
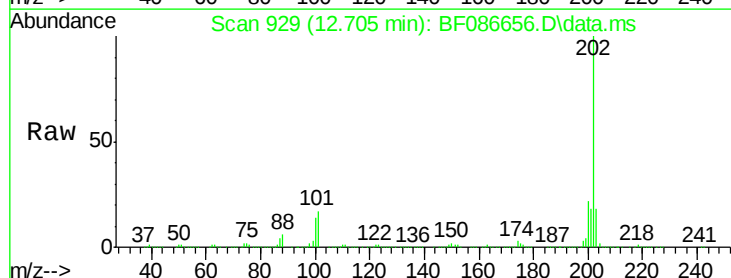
Tgt Ion:202 Resp: 763557

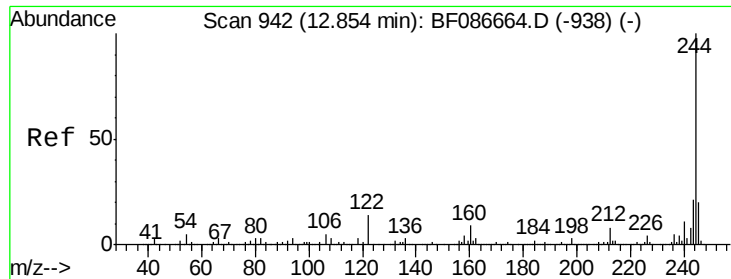
Ion Ratio Lower Upper

202 100

200 21.6 17.7 26.5

203 18.4 14.2 21.4

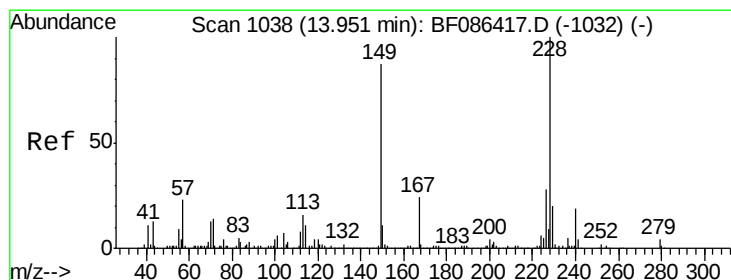
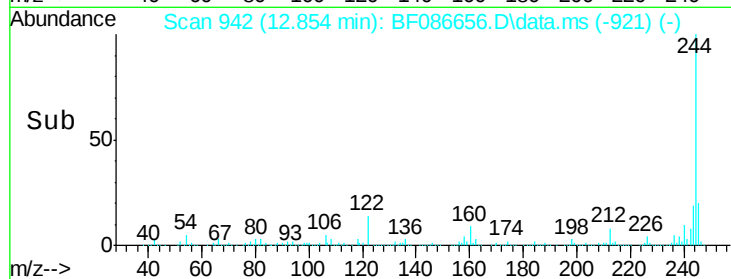
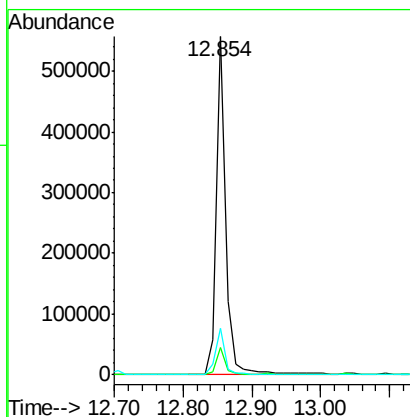
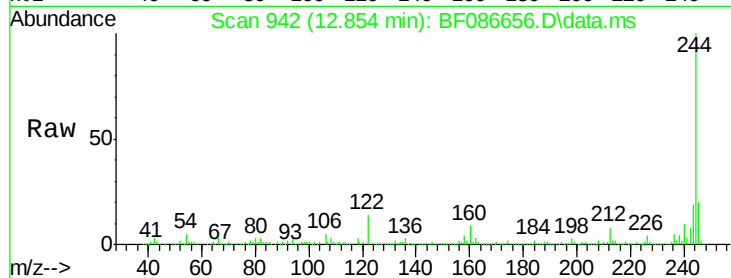




#78  
 Terphenyl-d14  
 Concen: 33.73 ng  
 RT: 12.854 min Scan# 94  
 Delta R.T. -0.057 min  
 Lab File: BF086656.D  
 Acq: 3 May 2016 20:45

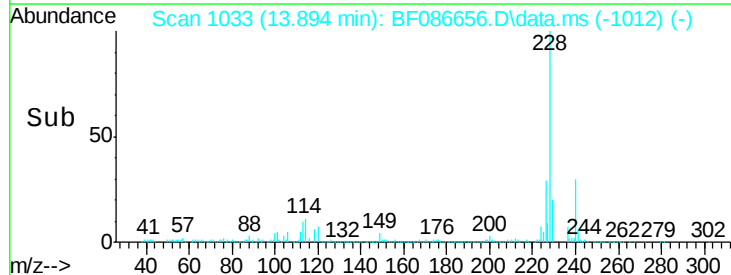
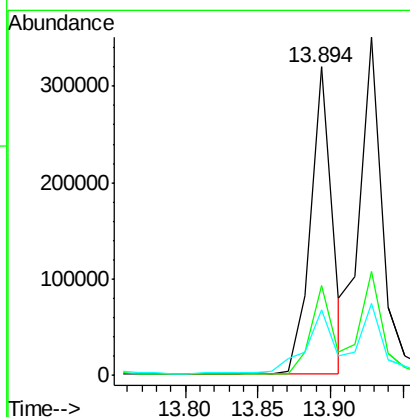
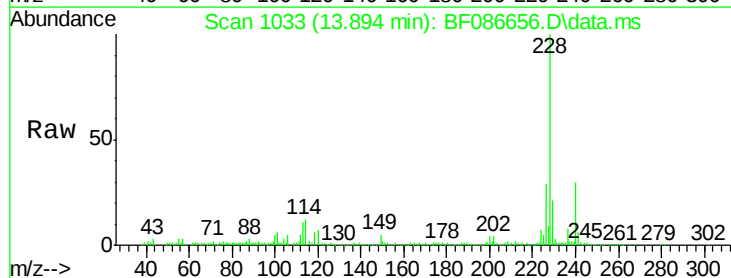
Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-1B-CS-2(0-16FTBGS)

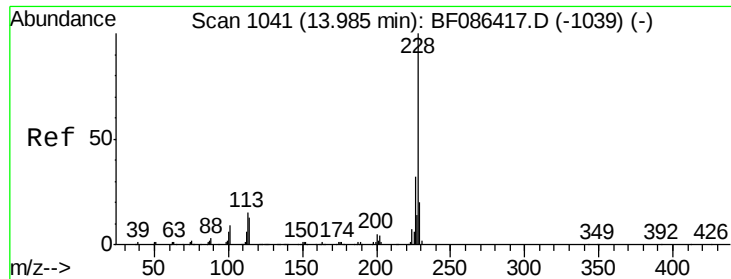
Tot Ion:244 Resp: 543500  
 Ion Ratio Lower Upper  
 244 100  
 212 7.9 6.2 9.2  
 122 13.8 12.0 18.0



#80  
 Benzo(a)anthracene  
 Concen: 17.66 ng  
 RT: 13.894 min Scan# 1033  
 Delta R.T. -0.057 min  
 Lab File: BF086656.D  
 Acq: 3 May 2016 20:45

Tgt Ion:228 Resp: 334276  
 Ion Ratio Lower Upper  
 228 100  
 226 29.1 22.5 33.7  
 229 21.1 16.6 25.0

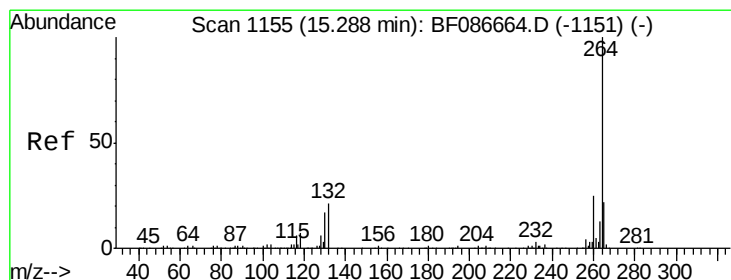
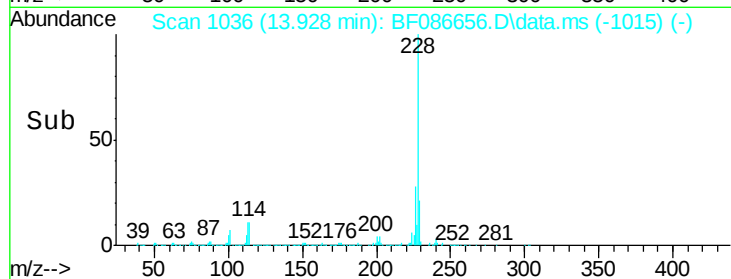
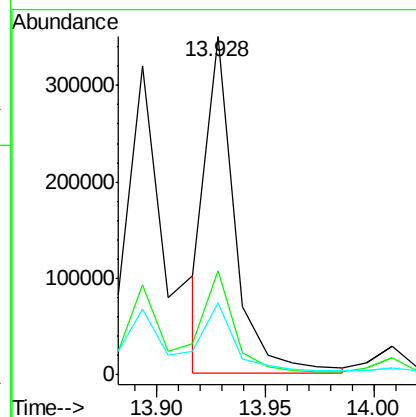
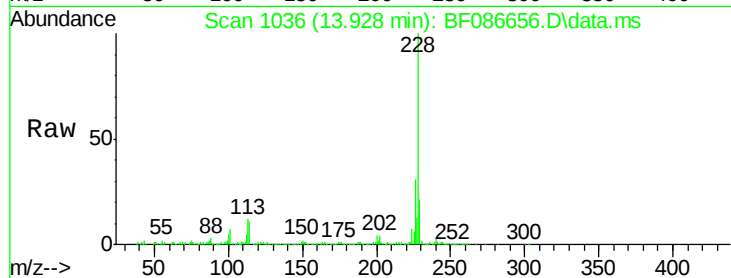




#82  
Chrysene  
Concen: 15.33 ng  
RT: 13.928 min Scan# 10  
Delta R.T. -0.057 min  
Lab File: BF086656.D  
Acq: 3 May 2016 20:45

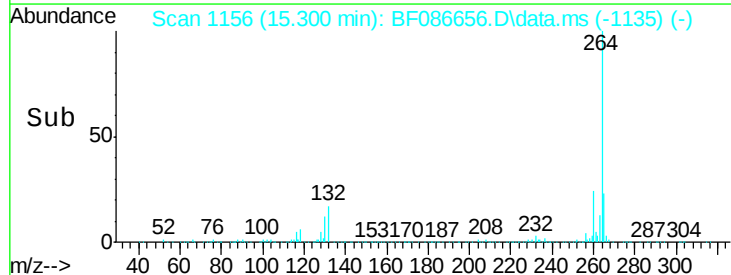
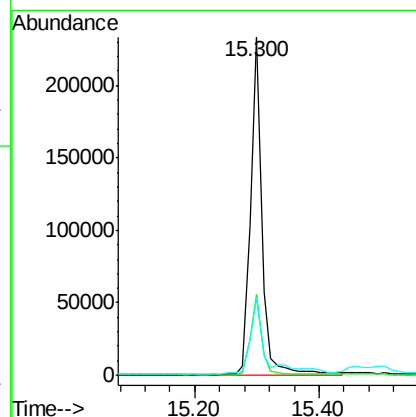
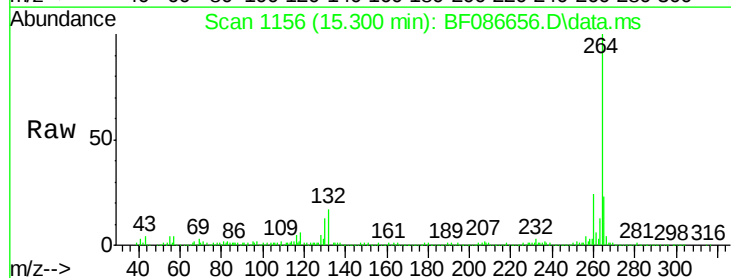
Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-1B-CS-2(0-16FTBGS)

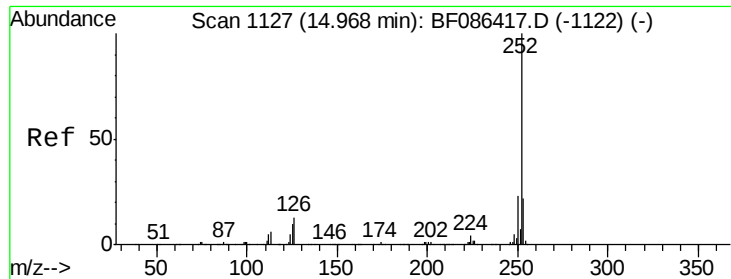
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 228   | Resp: | 315386 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 226      | 30.6  | 24.4  | 36.6   |
| 229      | 21.4  | 15.8  | 23.8   |



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.300 min Scan# 1156  
Delta R.T. -0.057 min  
Lab File: BF086656.D  
Acq: 3 May 2016 20:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 301192 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.0  | 19.5  | 29.3   |
| 265      | 22.8  | 17.3  | 25.9   |





#87

Benzo(b)fluoranthene

Concen: 25.57 ng

RT: 14.911 min Scan# 1127

Delta R.T. -0.057 min

Lab File: BF086656.D

Acq: 3 May 2016 20:45

Instrument :

BNA\_F

ClientSampleId :

26WARD-1B-CS-2(0-16FTBGS)

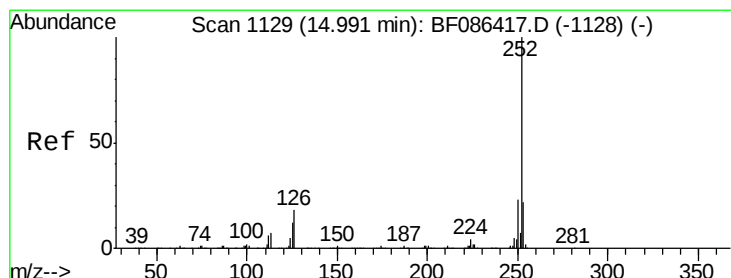
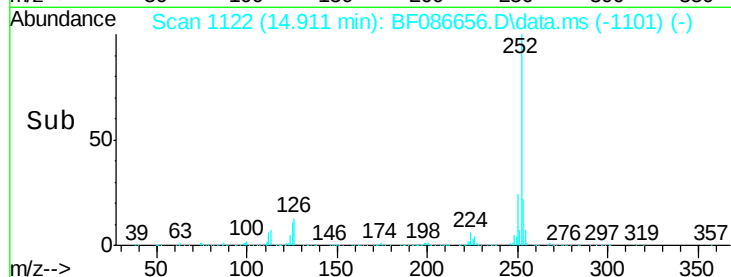
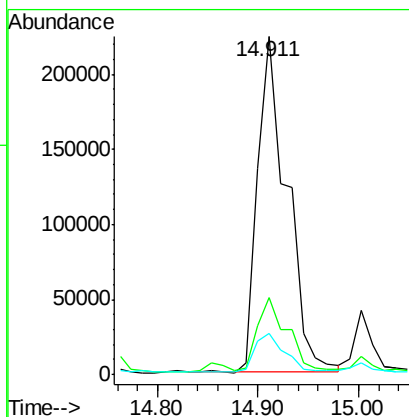
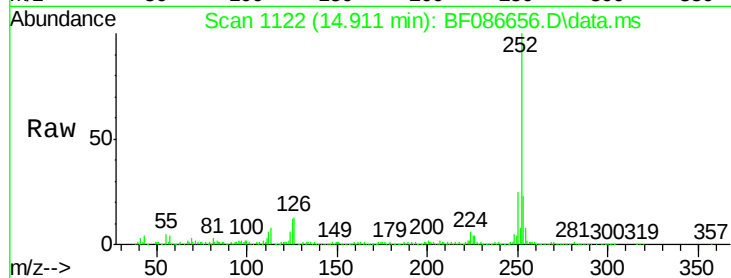
Tot Ion:252 Resp: 453085

Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.6

125 12.2 11.4 17.0



#88

Benzo(k)fluoranthene

Concen: 24.52 ng

RT: 14.911 min Scan# 1122

Delta R.T. -0.080 min

Lab File: BF086656.D

Acq: 3 May 2016 20:45

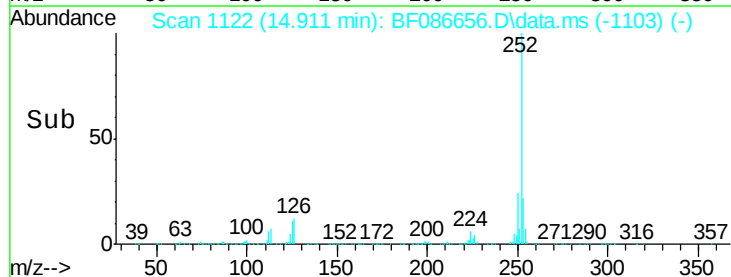
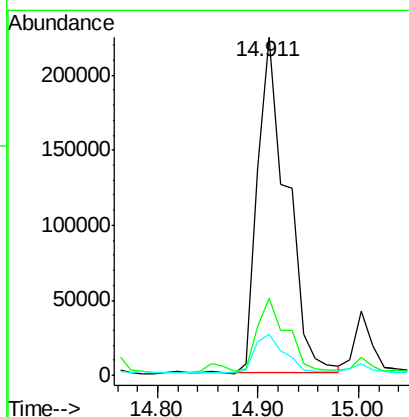
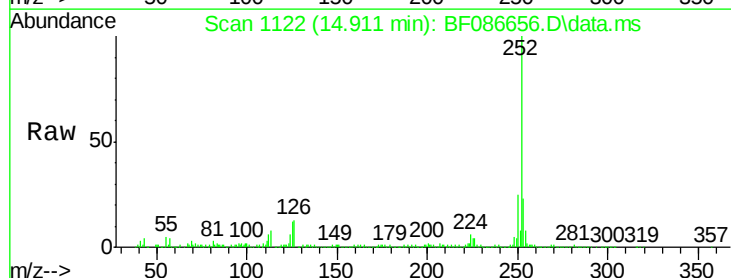
Tgt Ion:252 Resp: 453085

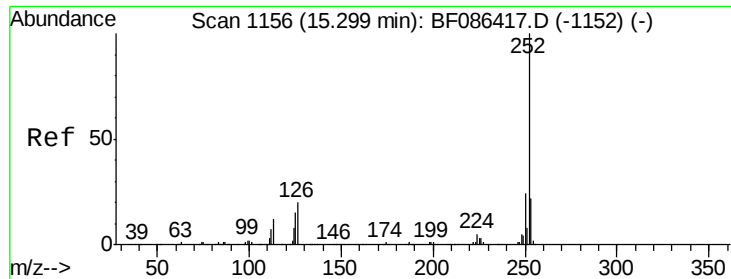
Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.6

125 12.2 9.1 13.7





#89

Benzo(a)pyrene

Concen: 14.70 ng

RT: 15.242 min Scan# 11

Delta R.T. -0.057 min

Lab File: BF086656.D

Acq: 3 May 2016 20:45

Instrument :

BNA\_F

ClientSampleId :

26WARD-1B-CS-2(0-16FTBGS)

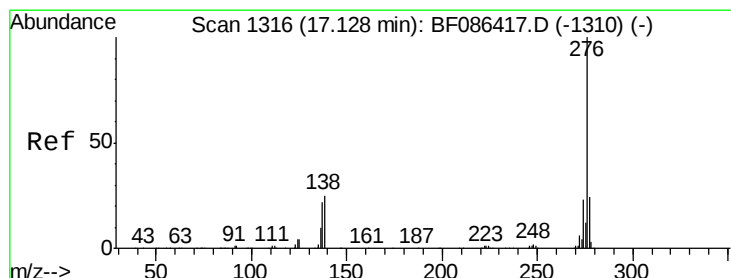
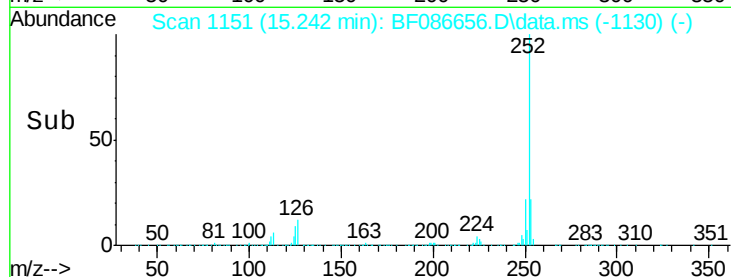
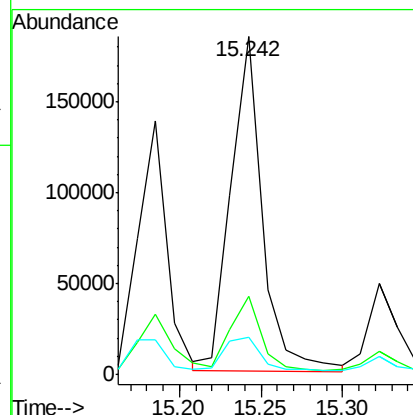
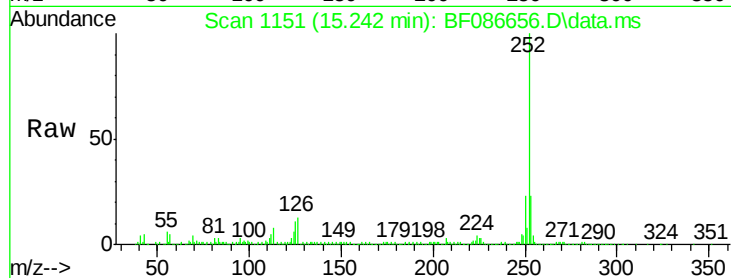
Tot Ion:252 Resp: 245881

Ion Ratio Lower Upper

252 100

253 23.0 17.2 25.8

125 10.8 9.0 13.6



#91

Benzo(g,h,i)perylene

Concen: 8.43 ng

RT: 17.025 min Scan# 1307

Delta R.T. -0.103 min

Lab File: BF086656.D

Acq: 3 May 2016 20:45

Tgt Ion:276 Resp: 115661

Ion Ratio Lower Upper

276 100

277 23.8 19.6 29.4

138 21.9 23.6 35.4#

