

Data File : BF100554.D  
Acq On : 14 Nov 2017 20:30  
Operator : SJ/JU  
Sample : I6441-03 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11A-11B

Quant Time: Nov 15 00:56:35 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 14 14:17:16 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 109082   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.17  | 136  | 378769   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 137191   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 252948   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.04 | 240  | 260067   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.52 | 264  | 184153   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.49  | 112  | 142103   | 20.88 | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 167233   | 19.93 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 92674    | 16.18 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330  | 25766    | 18.43 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.24  | 172  | 140898   | 15.64 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.99 | 244  | 117350   | 10.37 | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 26) 2-Nitrophenol              | 7.79  | 139  | 1010     | 5.70 | ng    | # 1    |
| 32) Benzoic acid               | 7.92  | 122  | 114      | 9.39 | ng    | # 1    |
| 47) 2-Nitroaniline             | 9.47  | 65   | 173      | 2.85 | ng    | # 12   |
| 53) 2,4-Dinitrophenol          | 10.21 | 184  | 114      | 7.99 | ng    | # 1    |
| 64) 4,6-Dinitro-2-methylphenol | 10.73 | 198  | 242      | 8.73 | ng    | # 1    |
| 70) Phenanthrene               | 11.43 | 178  | 52650    | 3.95 | ng    | 98     |
| 74) Fluoranthene               | 12.62 | 202  | 119381   | 8.46 | ng    | 100    |
| 77) Pyrene                     | 12.85 | 202  | 121487   | 6.55 | ng    | 97     |
| 80) Benzo(a)anthracene         | 14.03 | 228  | 67144    | 4.29 | ng    | 94     |
| 82) Chrysene                   | 14.07 | 228  | 55268    | 3.64 | ng    | 98     |
| 87) Benzo(b)fluoranthene       | 15.09 | 252  | 75124    | 6.89 | ng    | # 92   |
| 88) Benzo(k)fluoranthene       | 15.09 | 252  | 75124    | 7.29 | ng    | 95     |
| 89) Benzo(a)pyrene             | 15.46 | 252  | 40514    | 4.19 | ng    | # 90   |
| 91) Benzo(g,h,i)perylene       | 17.45 | 276  | 24911    | 3.22 | ng    | # 92   |

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

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ClientSampleId :

TP-11A-11B

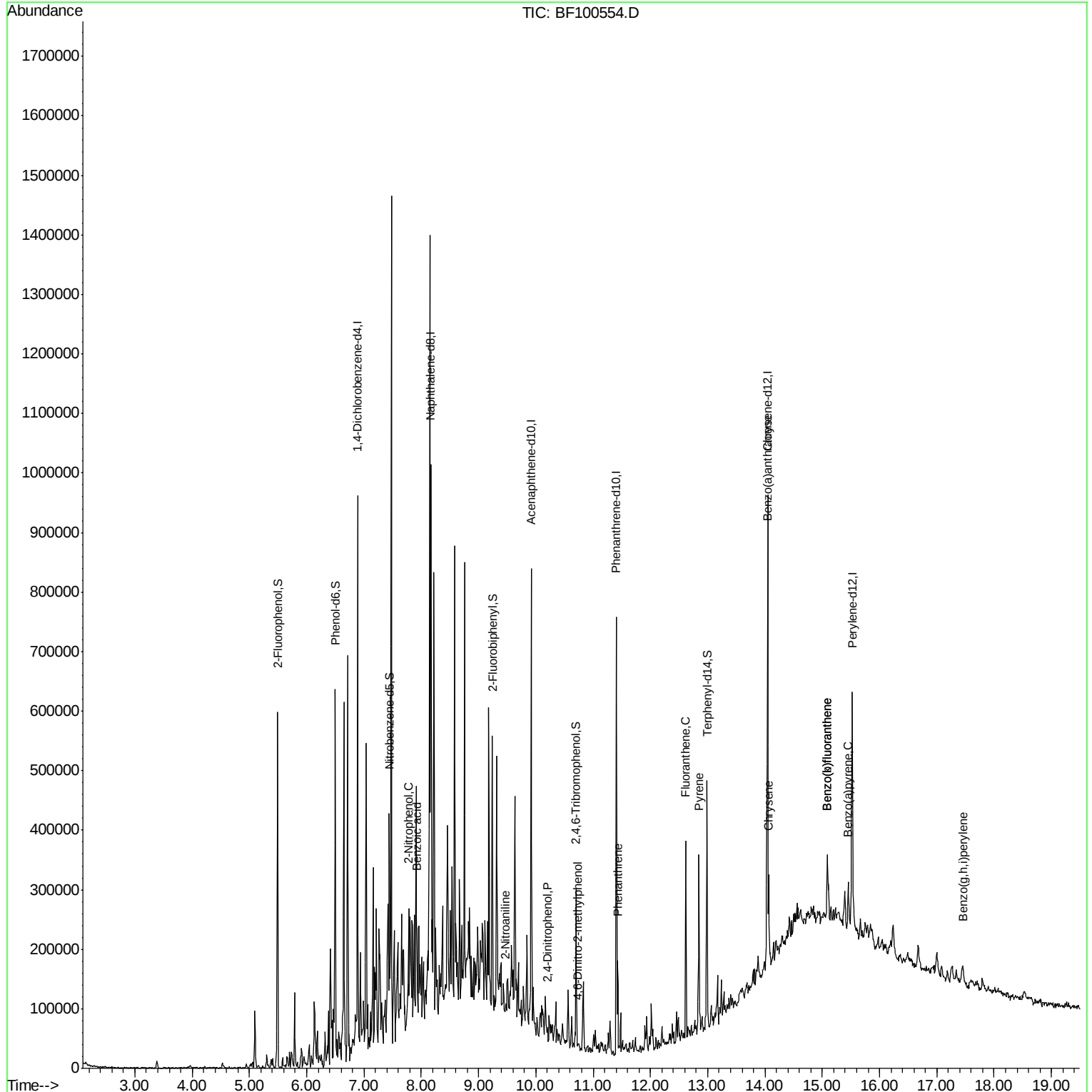
Quant Time: Nov 15 00:56:35 2017

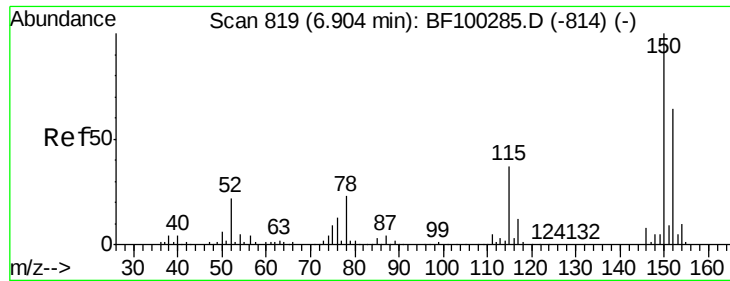
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M

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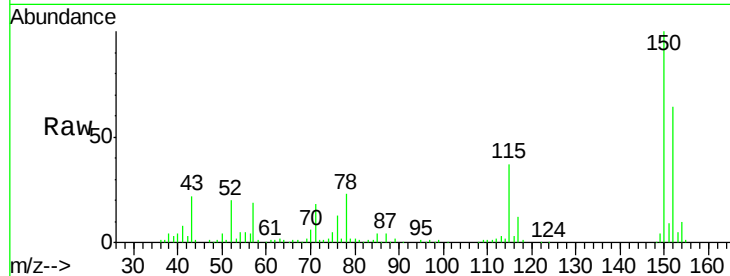


#1

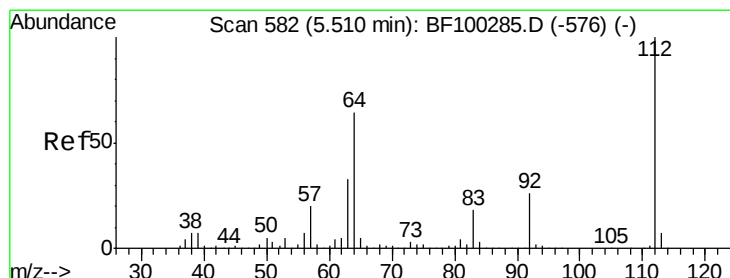
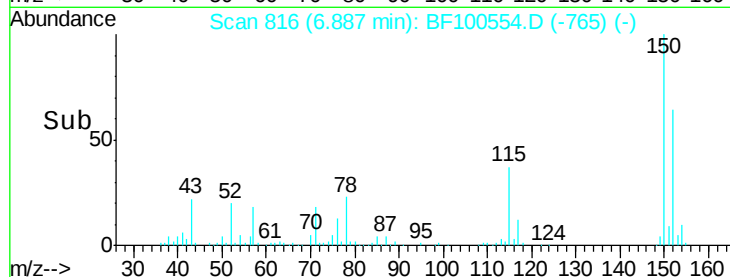
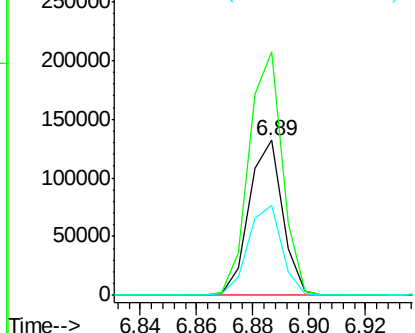
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.89 min Scan# 816  
Delta R.T. 0.00 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11A-11B

Tgt Ion:152 Resp: 109082  
Ion Ratio Lower Upper  
152 100  
150 156.9 124.6 186.8  
115 57.9 50.1 75.1



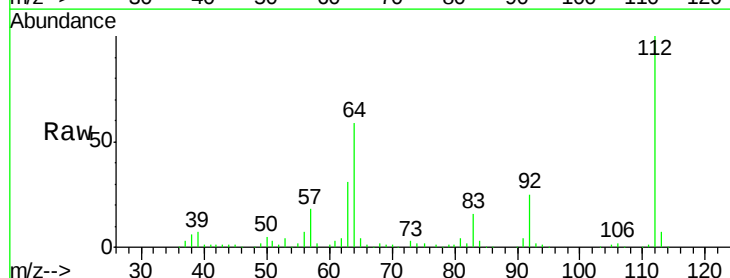
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



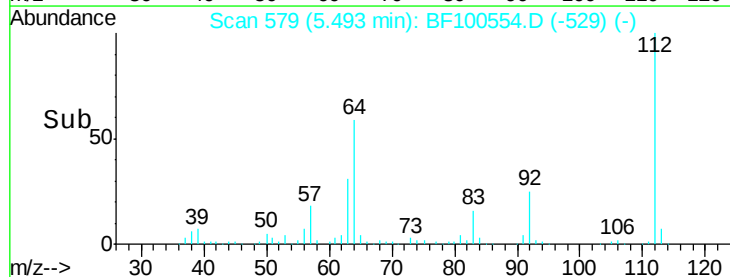
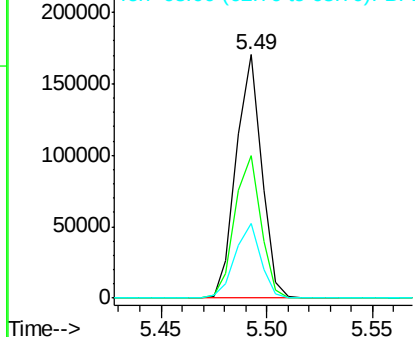
#5

2-Fluorophenol  
Concen: 20.88 ng  
RT: 5.49 min Scan# 579  
Delta R.T. -0.01 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

Tgt Ion:112 Resp: 142103  
Ion Ratio Lower Upper  
112 100  
64 58.6 47.9 71.9  
63 30.8 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: 19.93 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF100554.D

Acq: 14 Nov 2017 20:30

Instrument :

BNA\_F

ClientSampleId :

TP-11A-11B

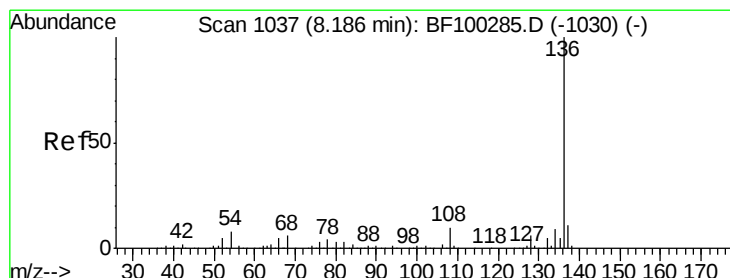
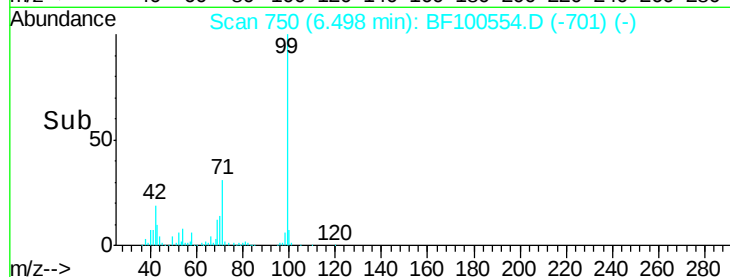
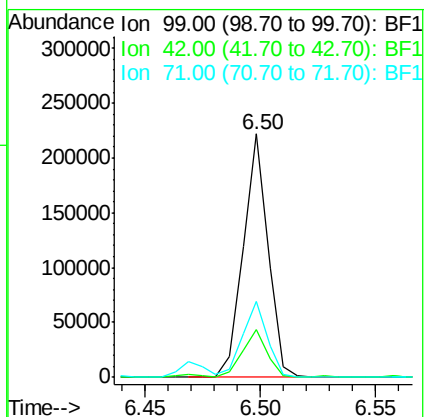
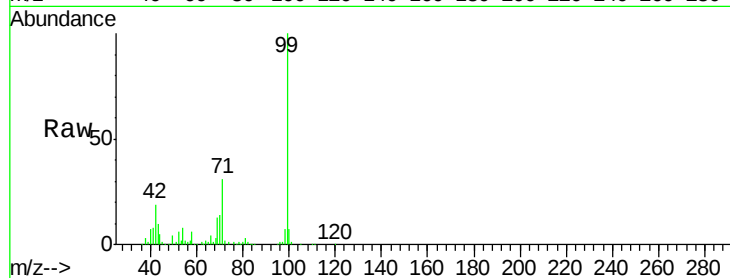
Tgt Ion: 99 Resp: 167233

Ion Ratio Lower Upper

99 100

42 19.4 14.5 21.7

71 31.0 25.4 38.0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.17 min Scan# 1034

Delta R.T. 0.00 min

Lab File: BF100554.D

Acq: 14 Nov 2017 20:30

Tgt Ion: 136 Resp: 378769

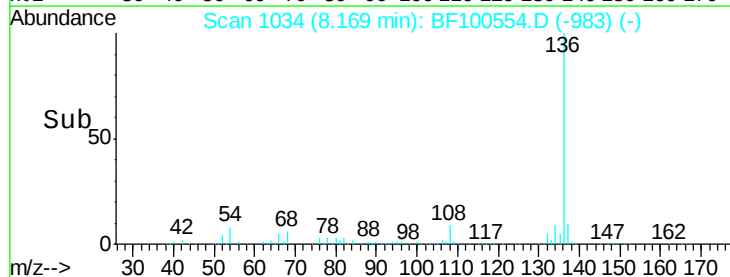
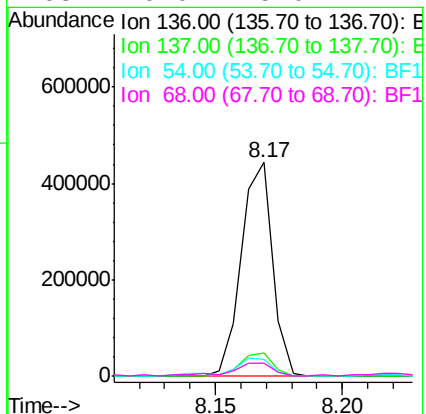
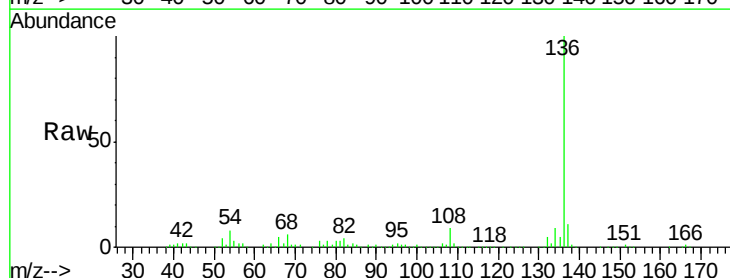
Ion Ratio Lower Upper

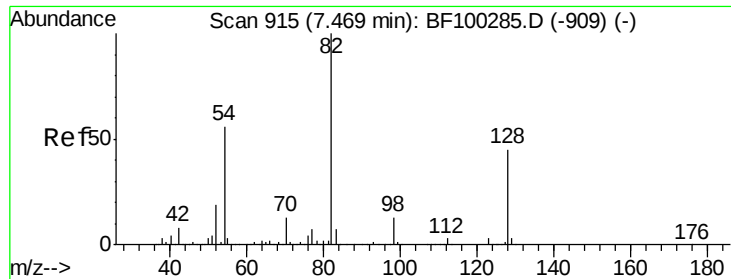
136 100

137 10.5 8.9 13.3

54 8.1 6.6 9.8

68 6.0 5.0 7.4

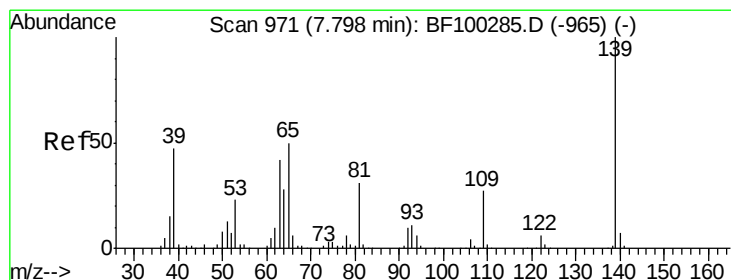
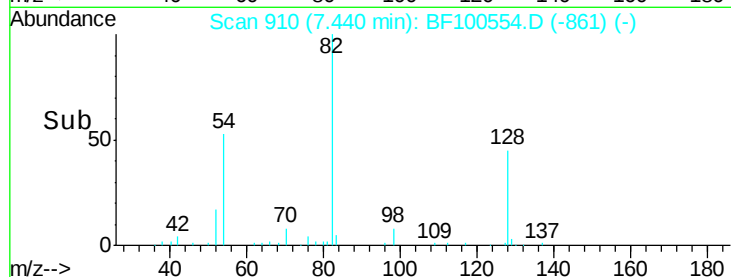
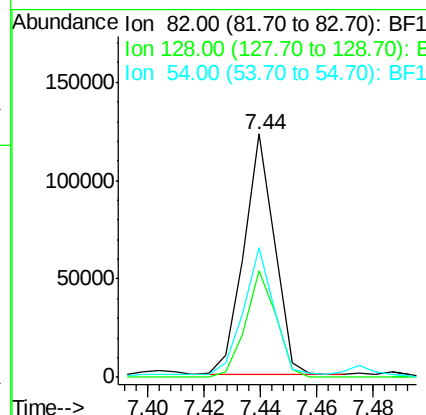
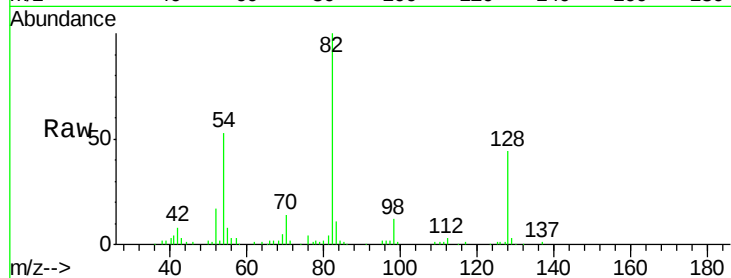




#23  
Nitrobenzene-d5  
Concen: 16.18 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

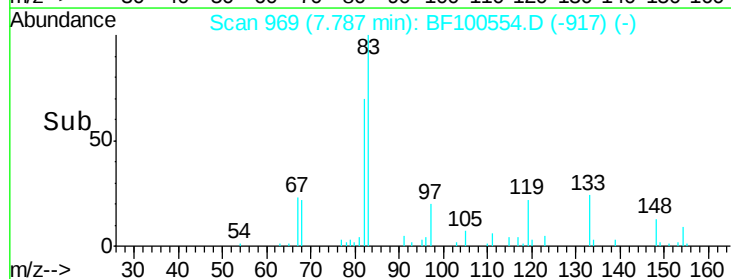
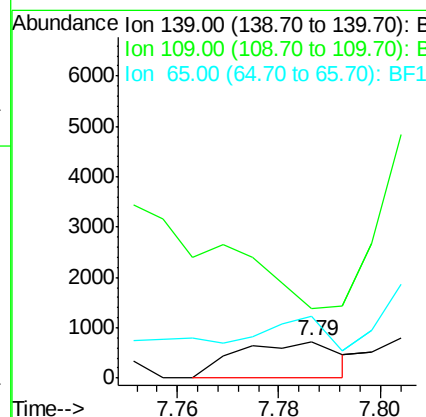
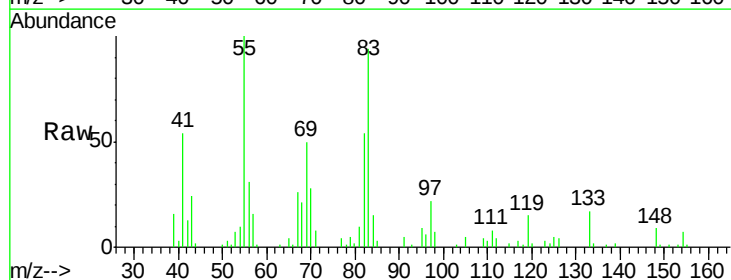
Instrument :  
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TP-11A-11B

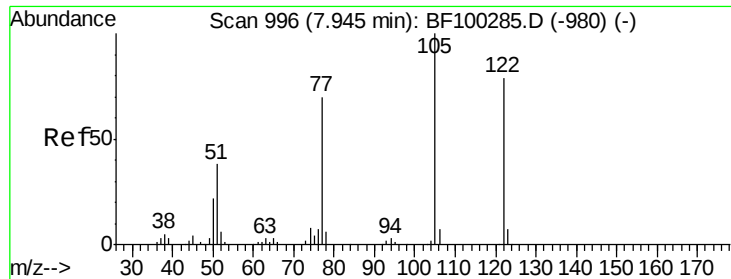
Tgt Ion: 82 Resp: 92674  
Ion Ratio Lower Upper  
82 100  
128 43.9 36.1 54.1  
54 53.5 41.4 62.2



#26  
2-Nitrophenol  
Concen: 5.70 ng  
RT: 7.79 min Scan# 969  
Delta R.T. 0.01 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

Tgt Ion: 139 Resp: 1010  
Ion Ratio Lower Upper  
139 100  
109 192.3 22.7 34.1#  
65 168.6 40.5 60.7#

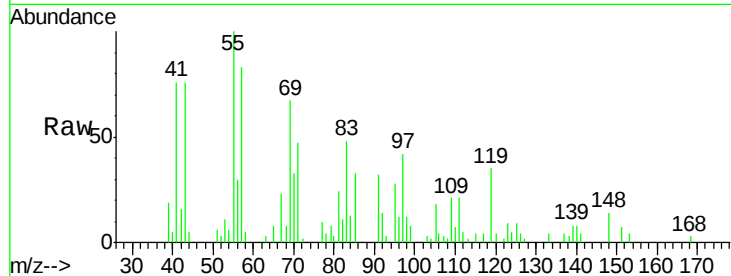




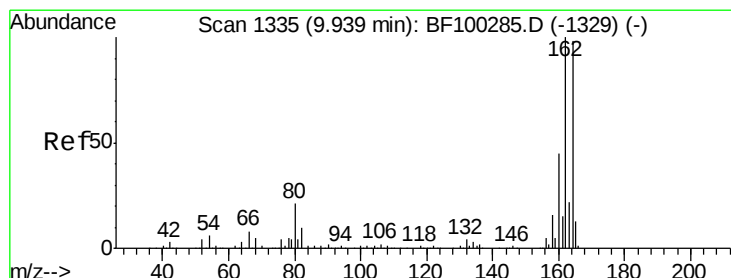
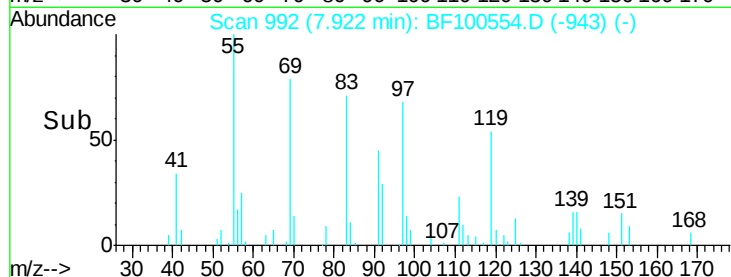
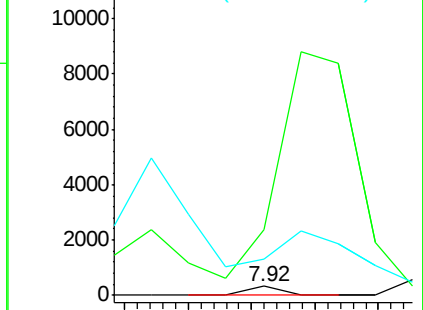
#32  
Benzoic acid  
Concen: 9.39 ng  
RT: 7.92 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11A-11B

Tgt Ion:122 Resp: 114  
Ion Ratio Lower Upper  
122 100  
105 730.9 101.1 141.1#  
77 411.7 70.7 110.7#

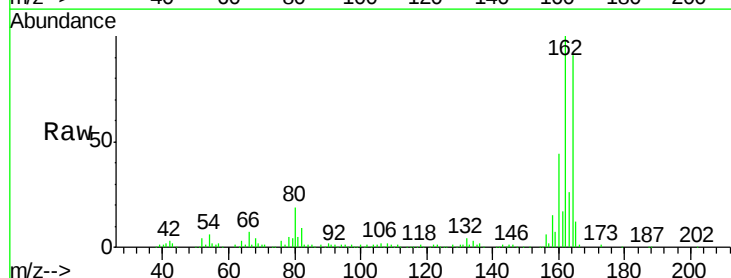


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF1

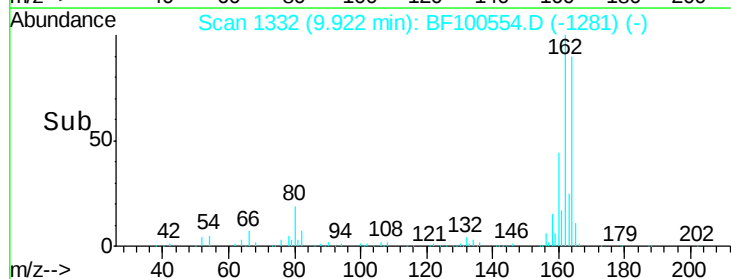
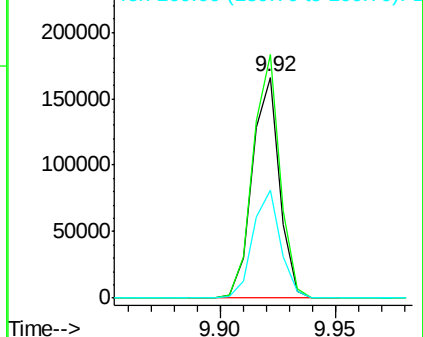


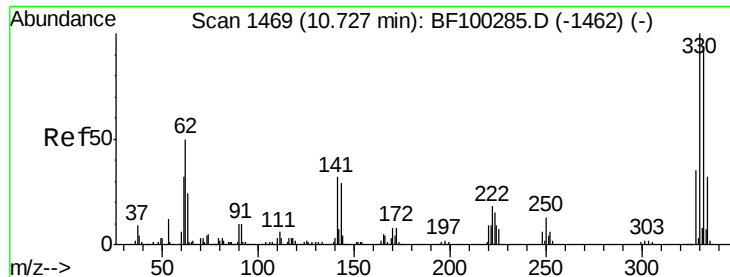
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. 0.00 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

Tgt Ion:164 Resp: 137191  
Ion Ratio Lower Upper  
164 100  
162 110.3 86.1 129.1  
160 49.0 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

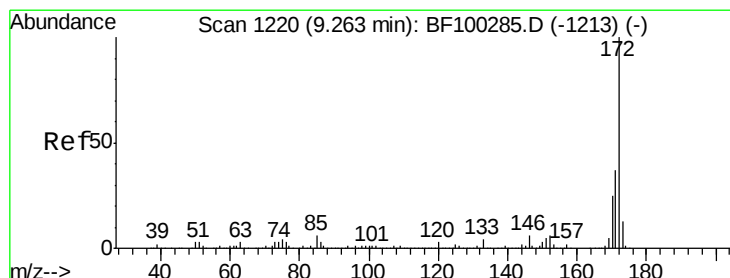
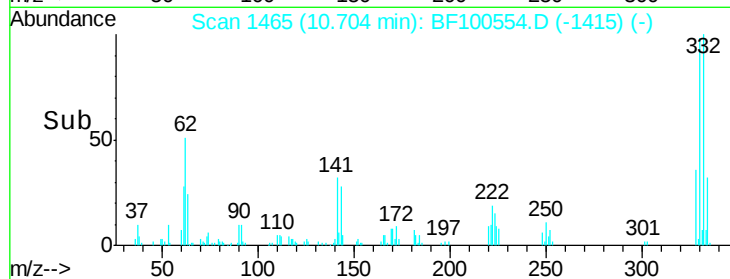
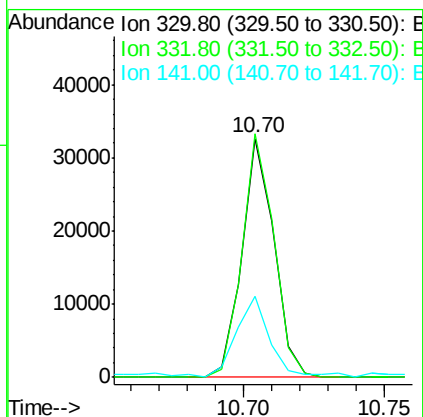
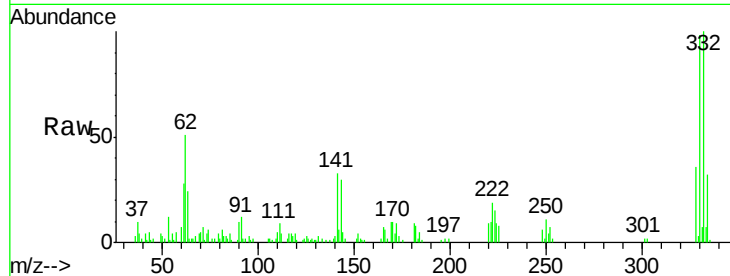




#41  
 2,4,6-Tribromophenol  
 Concen: 18.43 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.01 min  
 Lab File: BF100554.D  
 Acq: 14 Nov 2017 20:30

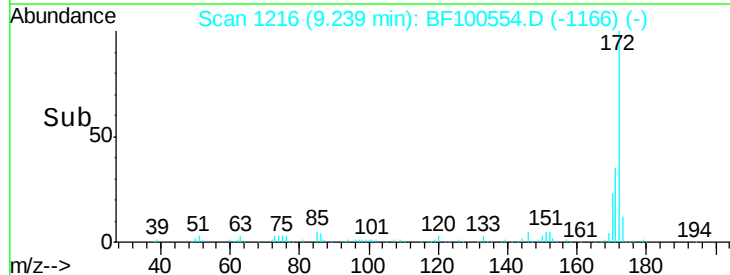
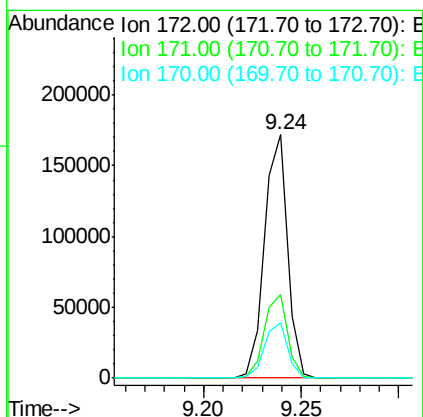
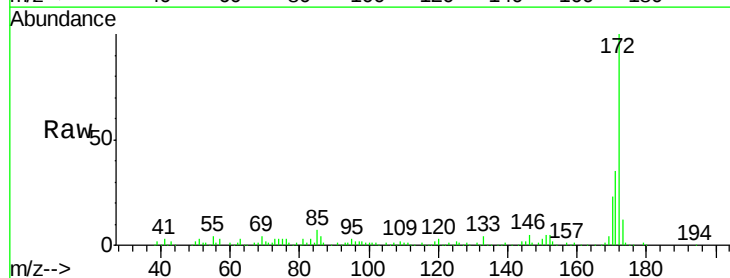
Instrument :  
 BNA\_F  
 ClientSampleId :  
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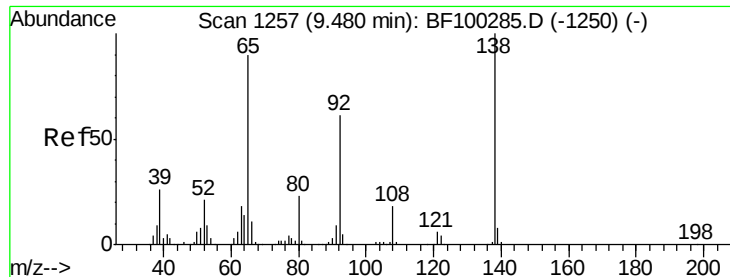
Tgt Ion: 330 Resp: 25766  
 Ion Ratio Lower Upper  
 330 100  
 332 100.8 77.0 115.6  
 141 36.6 29.9 44.9



#44  
 2-Fluorobiphenyl  
 Concen: 15.64 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF100554.D  
 Acq: 14 Nov 2017 20:30

Tgt Ion: 172 Resp: 140898  
 Ion Ratio Lower Upper  
 172 100  
 171 34.6 29.7 44.5  
 170 22.7 19.6 29.4





#47

2-Nitroaniline

Concen: 2.85 ng

RT: 9.47 min Scan# 1255

Delta R.T. 0.01 min

Lab File: BF100554.D

Acq: 14 Nov 2017 20:30

Instrument :

BNA\_F

ClientSampleId :

TP-11A-11B

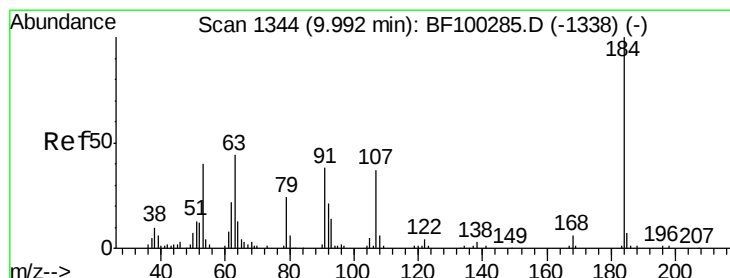
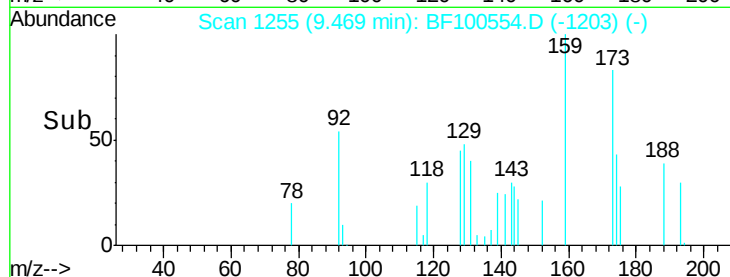
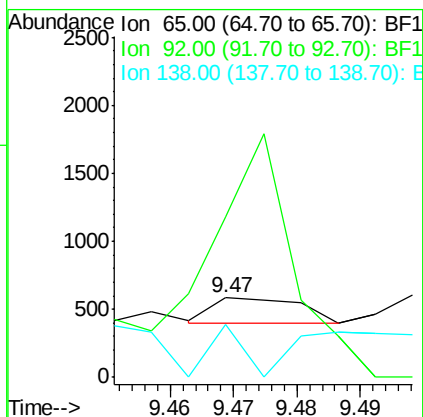
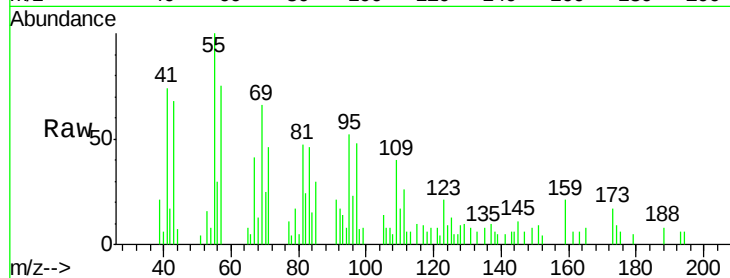
Tgt Ion: 65 Resp: 173

Ion Ratio Lower Upper

65 100

92 202.2 55.8 83.6#

138 67.1 91.2 136.8#



#53

2,4-Dinitrophenol

Concen: 7.99 ng

RT: 10.21 min Scan# 1381

Delta R.T. 0.23 min

Lab File: BF100554.D

Acq: 14 Nov 2017 20:30

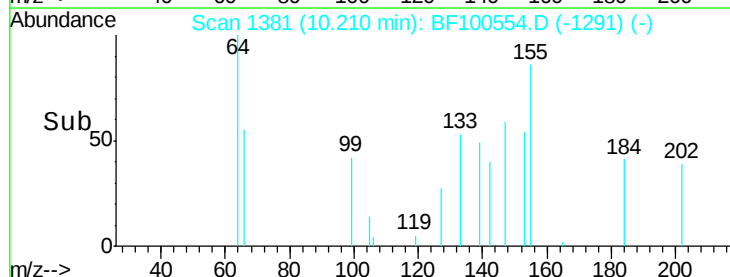
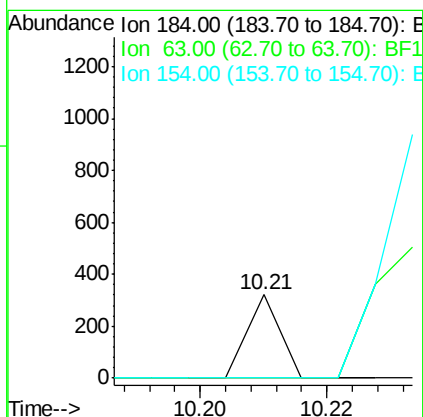
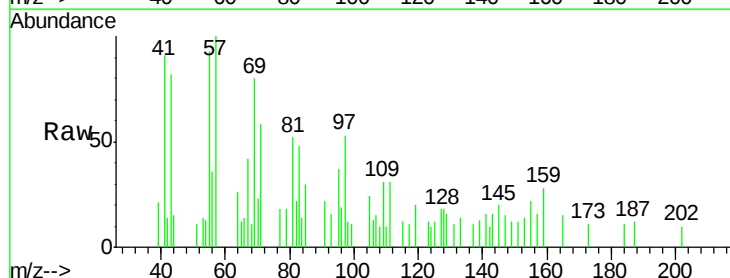
Tgt Ion: 184 Resp: 114

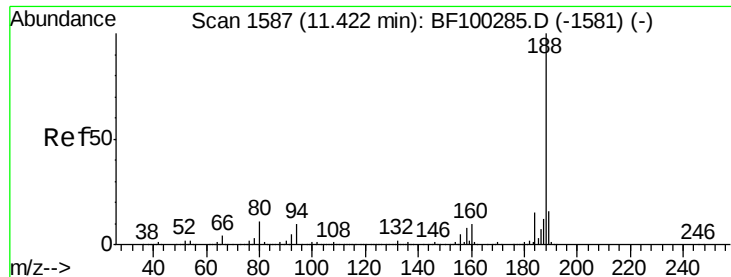
Ion Ratio Lower Upper

184 100

63 0.0 54.2 81.2#

154 0.0 184.0 276.0#

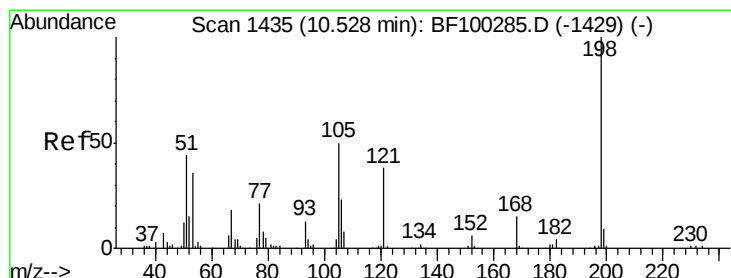
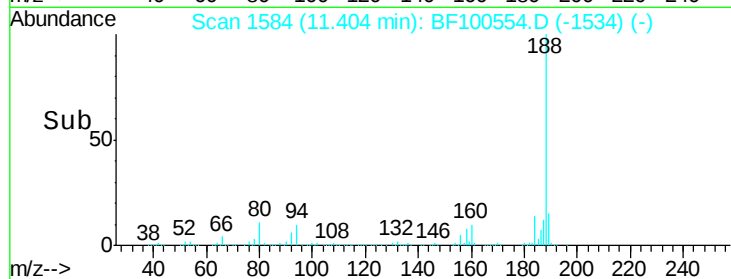
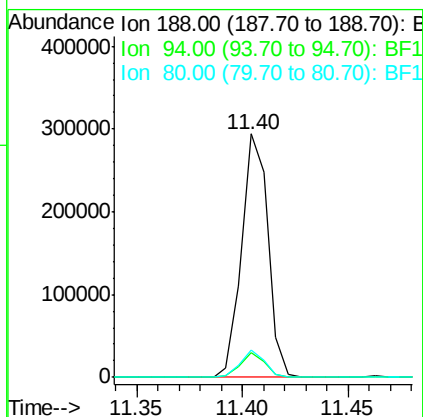
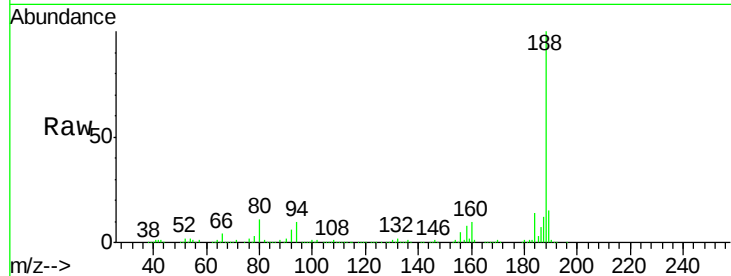




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.40 min Scan# 1584  
Delta R.T. -0.01 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

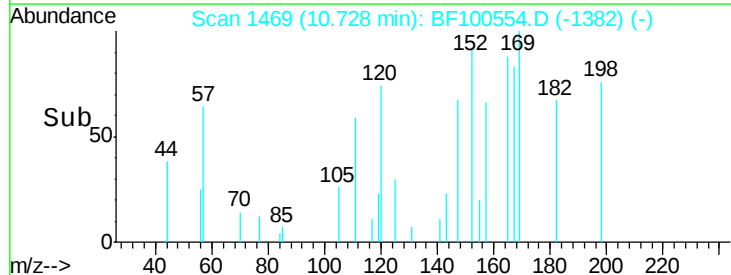
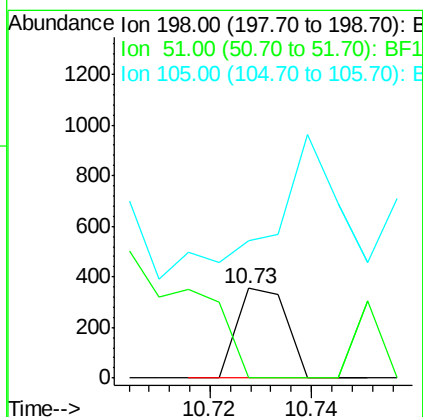
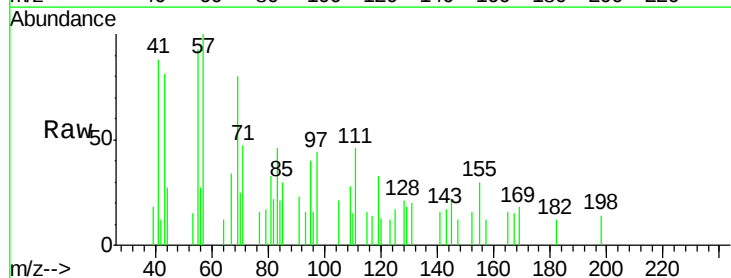
Instrument :  
BNA\_F  
ClientSampleId :  
TP-11A-11B

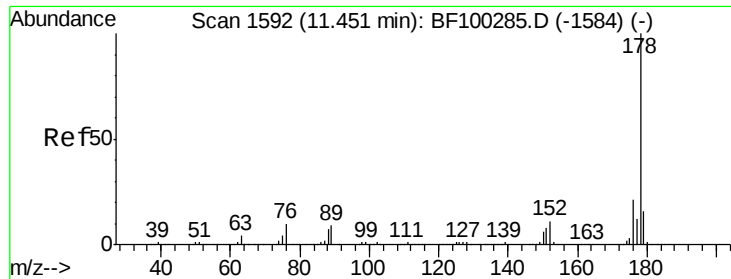
Tgt Ion:188 Resp: 252948  
Ion Ratio Lower Upper  
188 100  
94 10.4 8.5 12.7  
80 11.4 9.2 13.8



#64  
4,6-Dinitro-2-methylphenol  
Concen: 8.73 ng  
RT: 10.73 min Scan# 1469  
Delta R.T. 0.21 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

Tgt Ion:198 Resp: 242  
Ion Ratio Lower Upper  
198 100  
51 0.0 37.7 77.7#  
105 153.1 36.3 76.3#

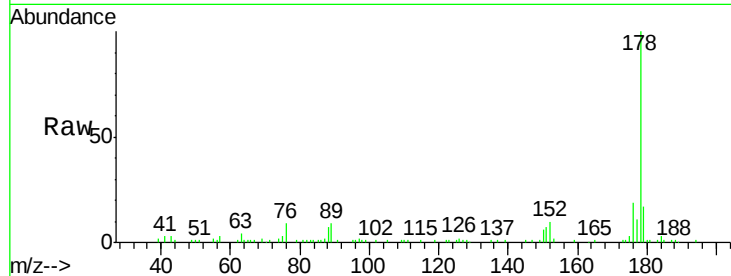




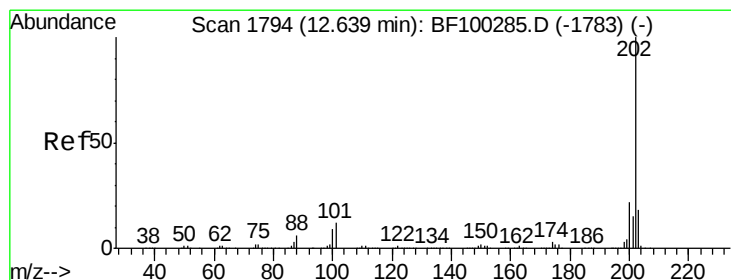
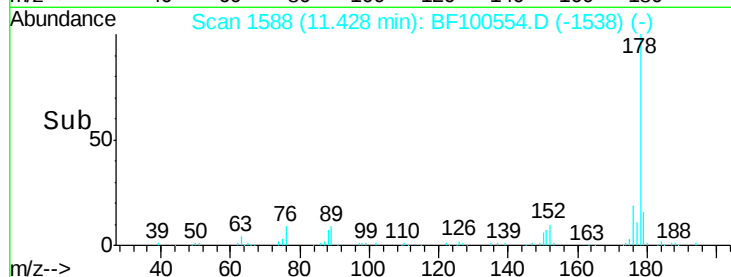
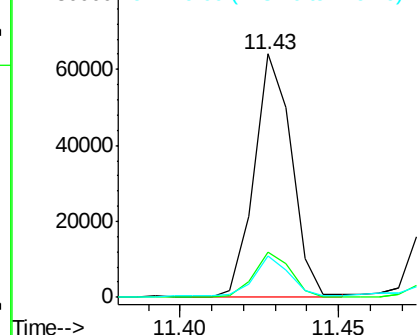
#70  
Phenanthrene  
Concen: 3.95 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. -0.01 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11A-11B

Tgt Ion:178 Resp: 52650  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.8 23.8  
179 16.9 13.0 19.6

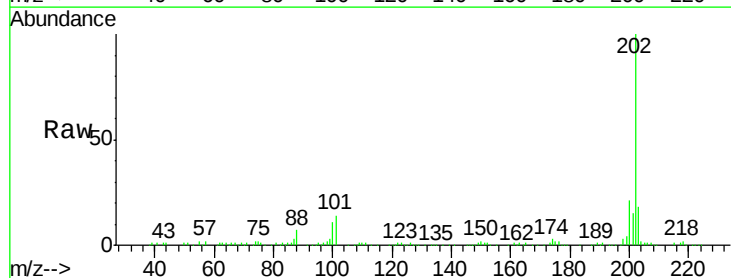


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

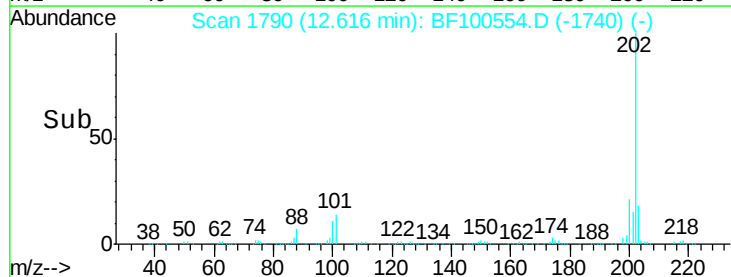
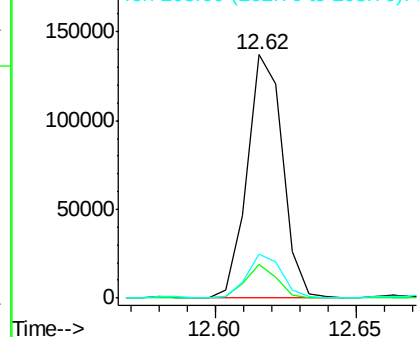


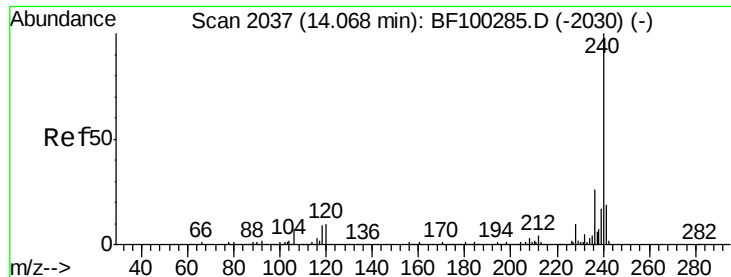
#74  
Fluoranthene  
Concen: 8.46 ng  
RT: 12.62 min Scan# 1790  
Delta R.T. -0.01 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

Tgt Ion:202 Resp: 119381  
Ion Ratio Lower Upper  
202 100  
101 14.0 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: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF100554.D

Acq: 14 Nov 2017 20:30

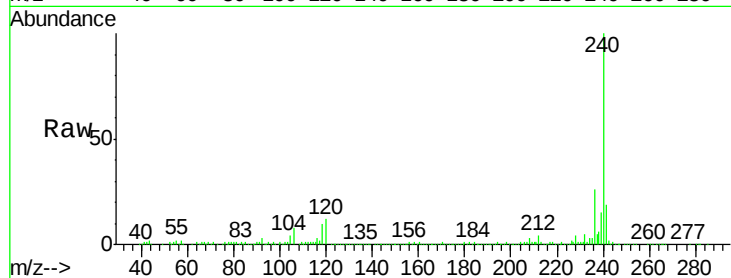
Instrument :

BNA\_F

ClientSampleId :

TP-11A-11B

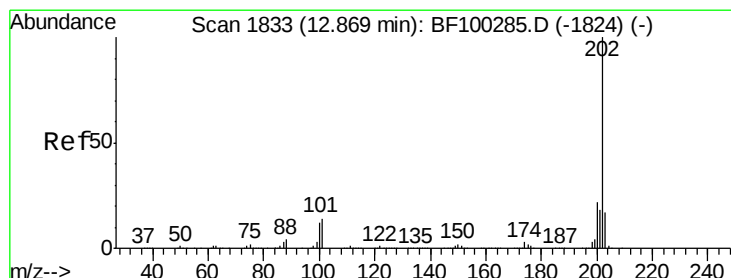
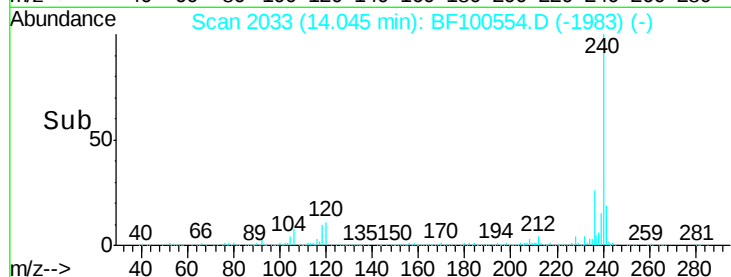
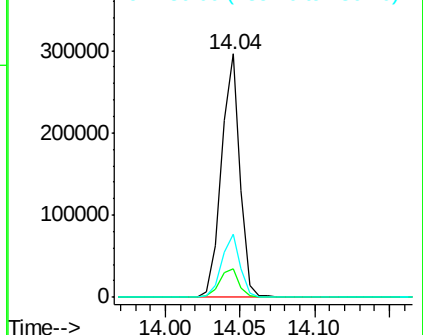
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 260067 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.5  | 9.5   | 14.3   |
| 236       | 26.1  | 20.7  | 31.1   |



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

Pyrene

Concen: 6.55 ng

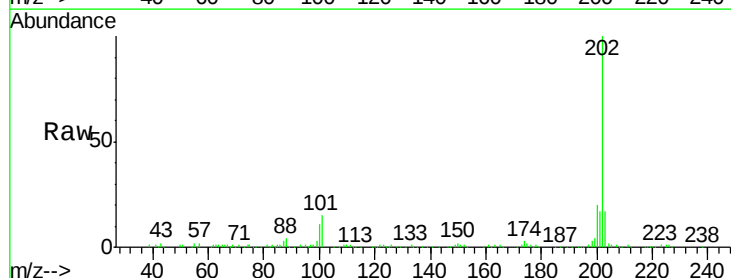
RT: 12.85 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF100554.D

Acq: 14 Nov 2017 20:30

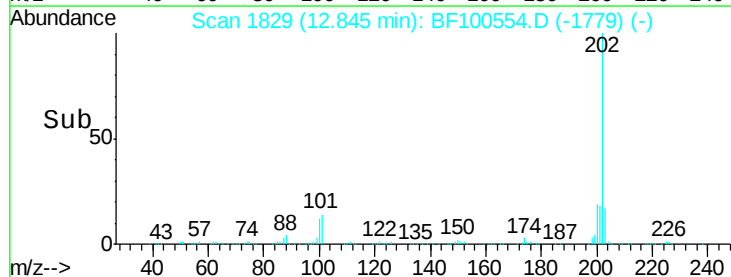
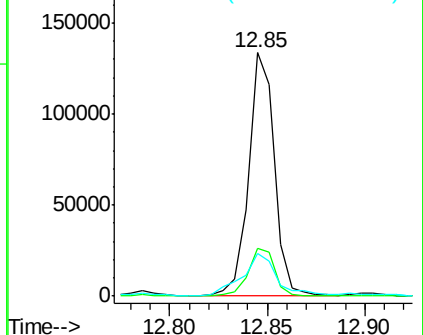
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 121487 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 19.6  | 17.4  | 26.2   |
| 203       | 17.3  | 14.3  | 21.5   |

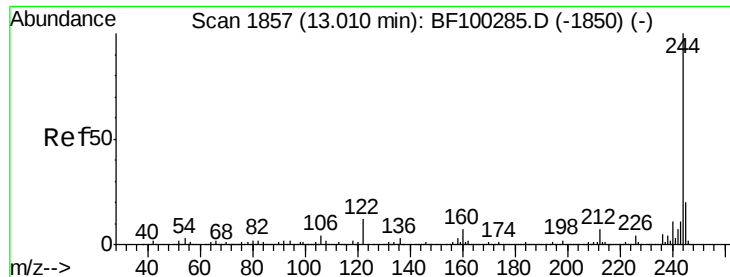


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 10.37 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BF100554.D

Acq: 14 Nov 2017 20:30

Instrument :

BNA\_F

ClientSampleId :

TP-11A-11B

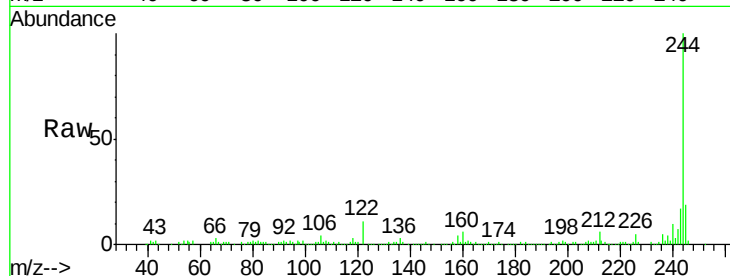
Tgt Ion:244 Resp: 117350

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.0

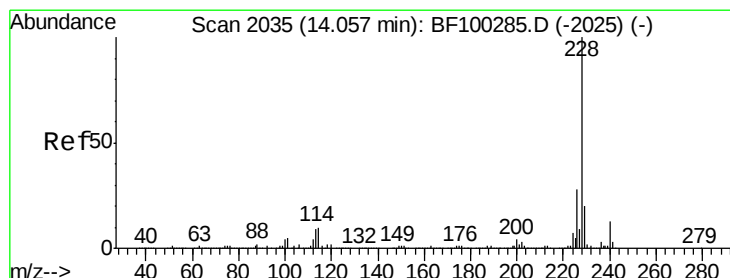
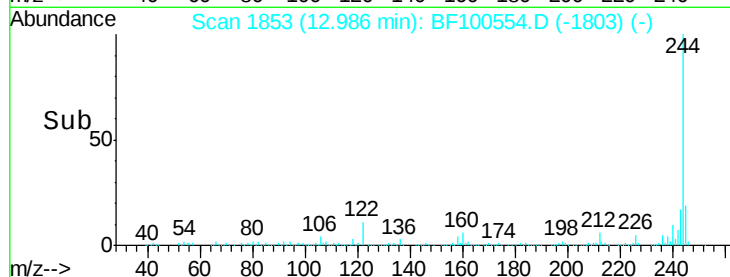
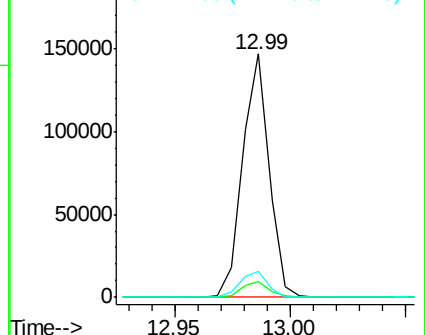
122 10.5 11.0 16.4#



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: 4.29 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF100554.D

Acq: 14 Nov 2017 20:30

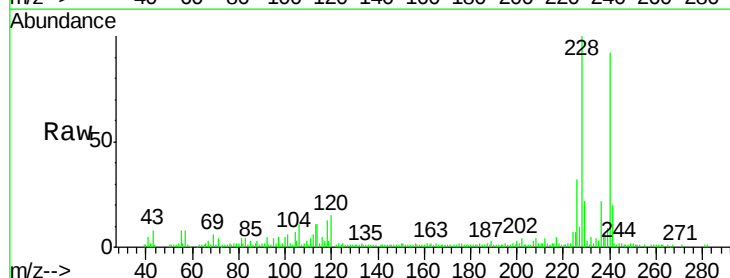
Tgt Ion:228 Resp: 67144

Ion Ratio Lower Upper

228 100

226 31.8 22.6 33.8

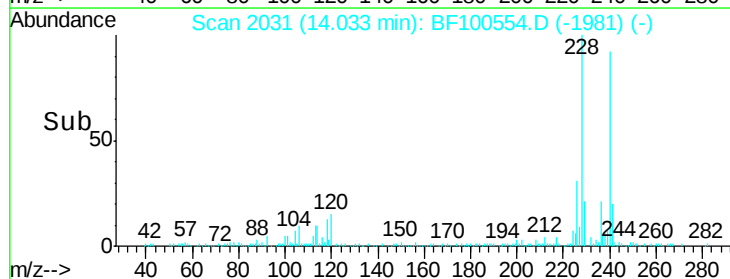
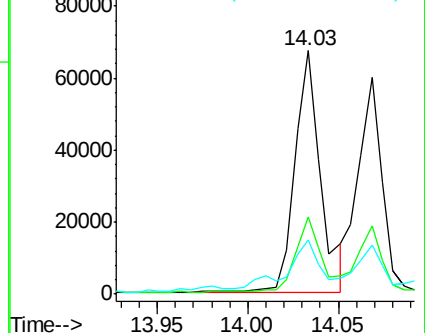
229 22.1 15.8 23.6

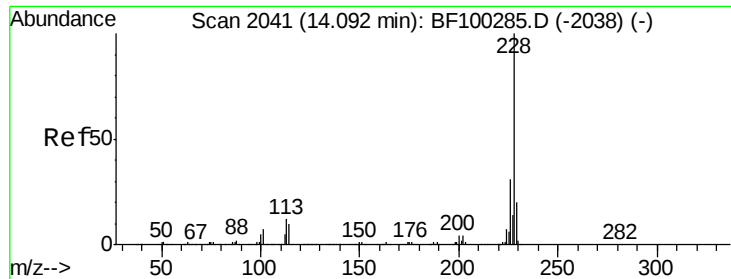


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.64 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BF100554.D

Acq: 14 Nov 2017 20:30

Instrument :

BNA\_F

ClientSampleId :

TP-11A-11B

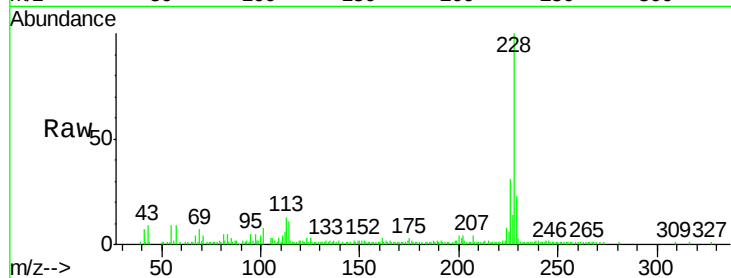
Tgt Ion:228 Resp: 55268

Ion Ratio Lower Upper

228 100

226 31.2 25.0 37.6

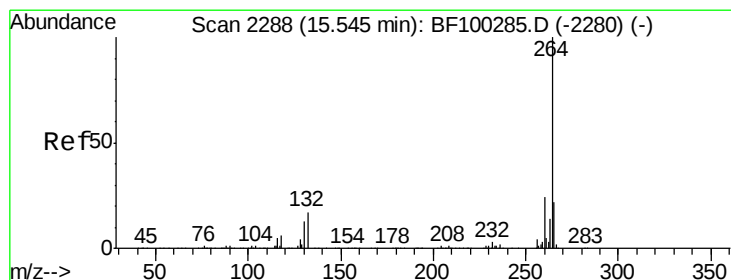
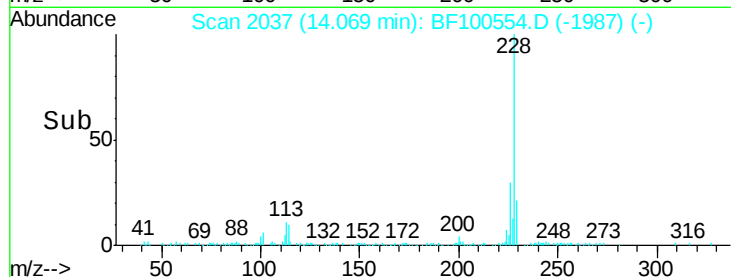
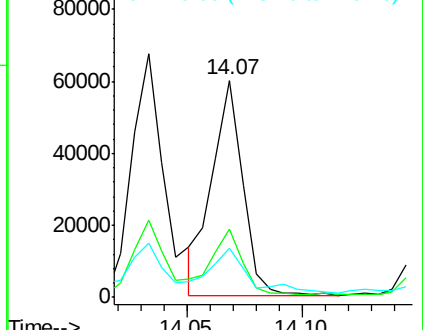
229 22.9 16.2 24.4



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

Perylene-d12

Concen: 20.00 ng

RT: 15.52 min Scan# 2284

Delta R.T. 0.00 min

Lab File: BF100554.D

Acq: 14 Nov 2017 20:30

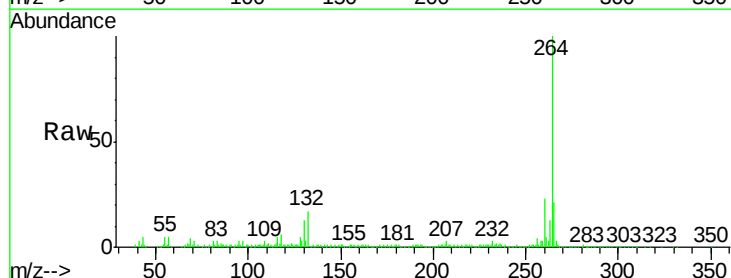
Tgt Ion:264 Resp: 184153

Ion Ratio Lower Upper

264 100

260 23.3 19.2 28.8

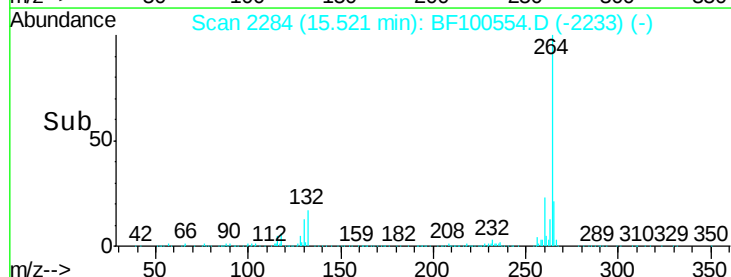
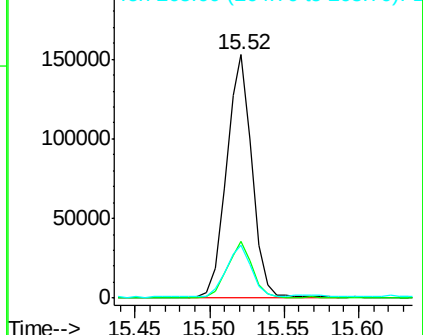
265 21.5 17.5 26.3

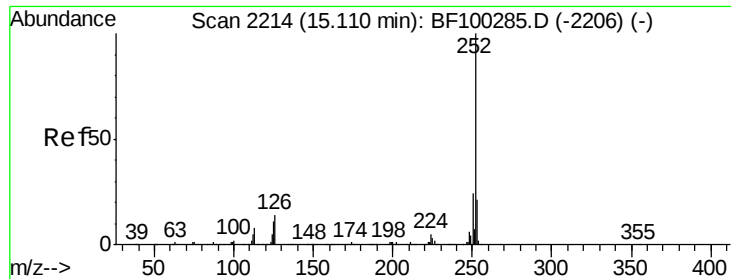


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

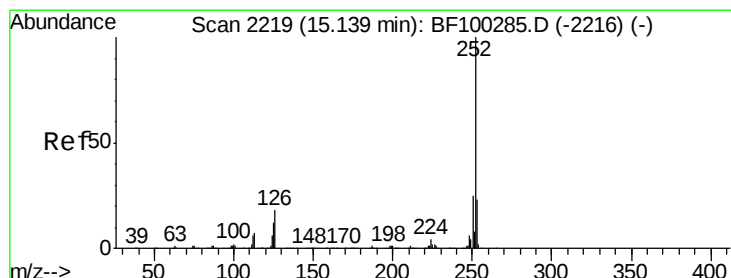
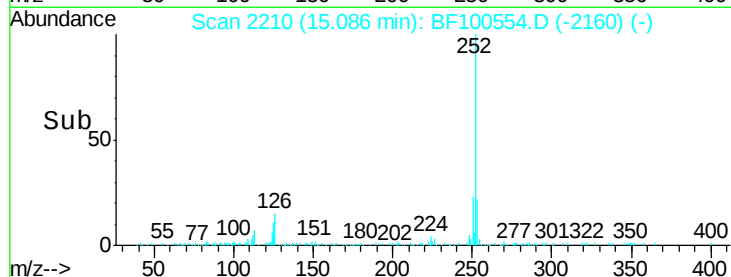
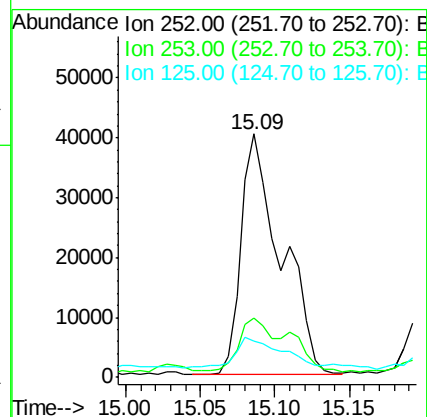
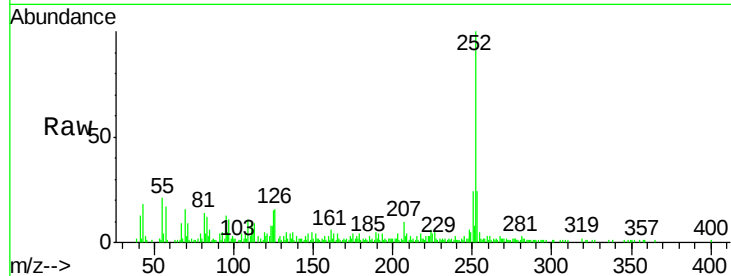




#87  
Benzo(b)fluoranthene  
Concen: 6.89 ng  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.01 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

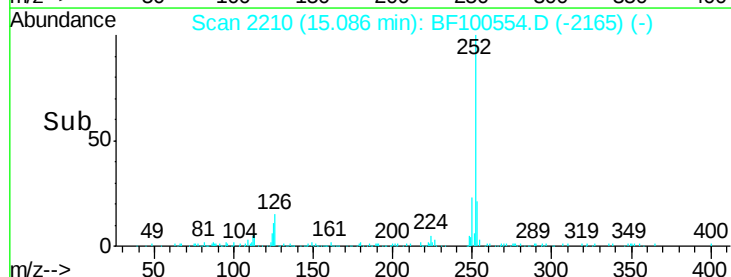
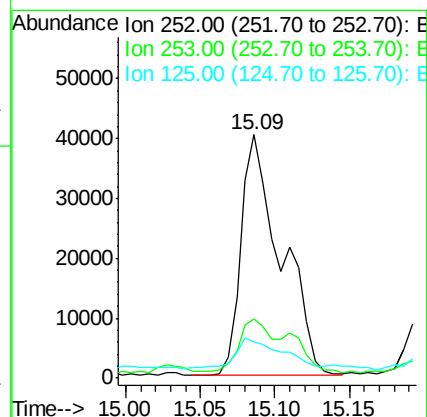
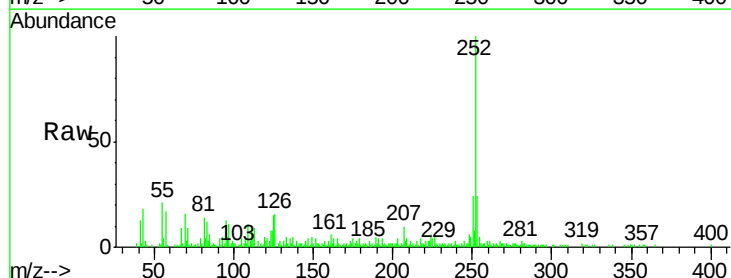
Instrument :  
BNA\_F  
ClientSampleId :  
TP-11A-11B

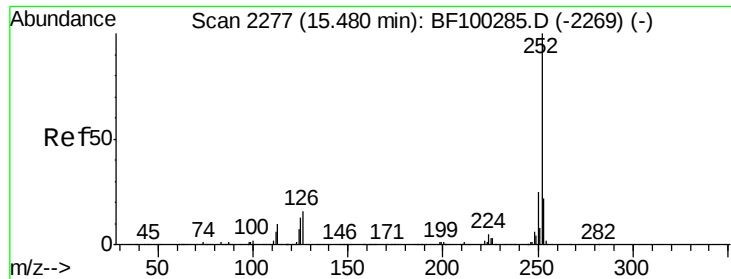
Tgt Ion:252 Resp: 75124  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.0 25.6  
125 14.9 9.0 13.6#



#88  
Benzo(k)fluoranthene  
Concen: 7.29 ng  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.04 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

Tgt Ion:252 Resp: 75124  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.9 26.9  
125 14.9 10.2 15.2

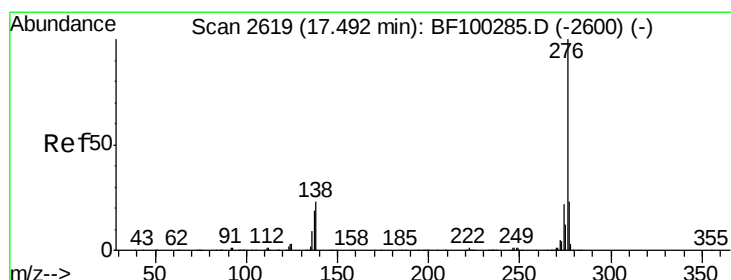
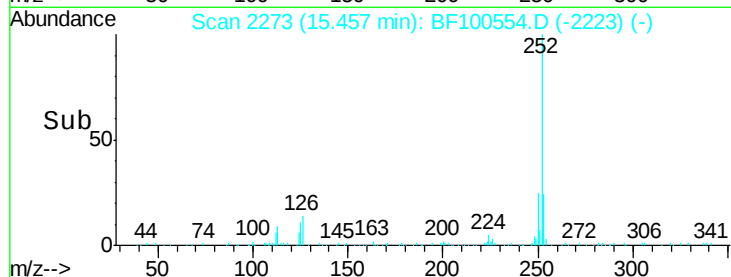
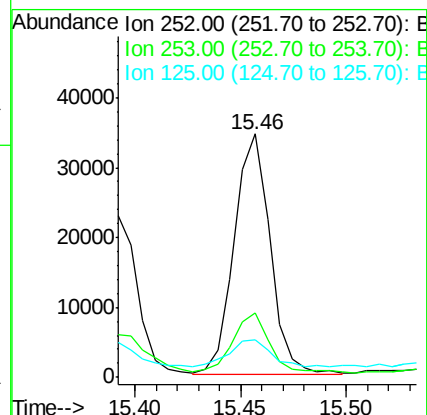
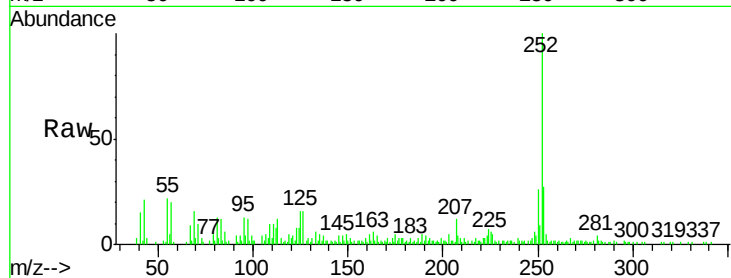




#89  
Benzo(a)pyrene  
Concen: 4.19 ng  
RT: 15.46 min Scan# 2273  
Delta R.T. -0.01 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11A-11B

Tgt Ion:252 Resp: 40514  
Ion Ratio Lower Upper  
252 100  
253 26.5 17.1 25.7#  
125 15.6 9.8 14.6#



#91  
Benzo(g,h,i)perylene  
Concen: 3.22 ng  
RT: 17.45 min Scan# 2612  
Delta R.T. -0.01 min  
Lab File: BF100554.D  
Acq: 14 Nov 2017 20:30

Tgt Ion:276 Resp: 24911  
Ion Ratio Lower Upper  
276 100  
277 27.8 17.9 26.9#  
138 24.6 21.8 32.8

