

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF061118\  
 Data File : BF106320.D  
 Acq On : 12 Jun 2018 2:41  
 Operator : JU/SJ  
 Sample : J3413-01  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-4

Quant Time: Jun 12 05:17:20 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 11 15:00:22 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 211459   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.25  | 136  | 775547   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.01 | 164  | 365679   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.50 | 188  | 615029   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.14 | 240  | 504266   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.67 | 264  | 389272   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.60  | 112  | 1448231  | 115.92 | ng    | 0.01     |
| 7) Phenol-d6                | 6.60  | 99   | 1773017  | 112.32 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.54  | 82   | 1191130  | 90.35  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 472962   | 134.42 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.33  | 172  | 1833838  | 91.07  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.08 | 244  | 1664220  | 81.97  | ng    | 0.00     |

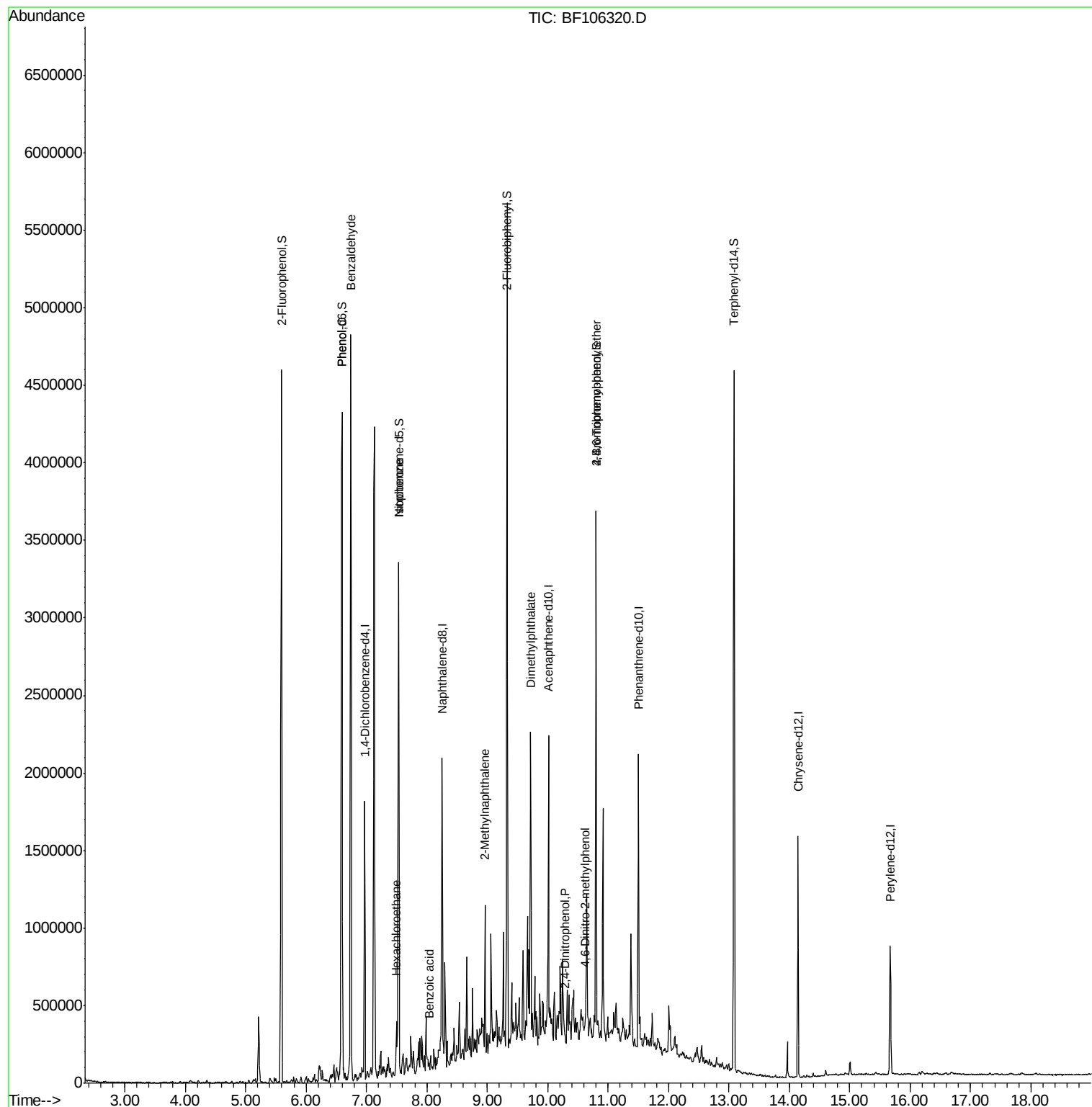
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.74  | 77   | 36672    | 3.063  | ng    | 82     |
| 10) Phenol                     | 6.60  | 94   | 38211    | 2.217  | ng    | 76     |
| 18) Hexachloroethane           | 7.50  | 117  | 13798    | 2.413  | ng    | # 1    |
| 25) Isophorone                 | 7.54  | 82   | 1191129  | 46.258 | ng    | # 64   |
| 32) Benzoic acid               | 8.04  | 122  | 728      | 7.366  | ng    | # 23   |
| 37) 2-Methylnaphthalene        | 8.97  | 142  | 233939   | 9.797  | ng    | 97     |
| 49) Dimethylphthalate          | 9.72  | 163  | 315197   | 12.065 | ng    | # 97   |
| 53) 2,4-Dinitrophenol          | 10.29 | 184  | 2214     | 9.420  | ng    | # 12   |
| 64) 4,6-Dinitro-2-methylphenol | 10.62 | 198  | 243      | 6.358  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.80 | 248  | 30612    | 4.376  | ng    | # 1    |

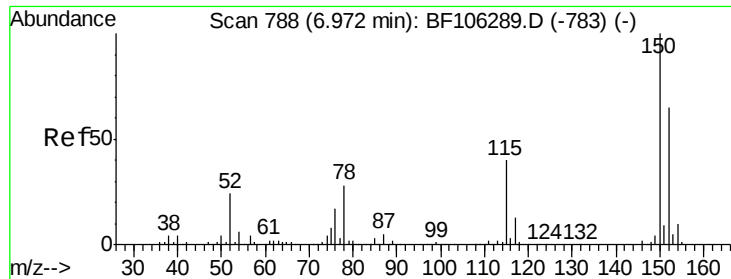
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF061118\  
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Sample : J3413-01  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_F  
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D-4

Quant Time: Jun 12 05:17:20 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061118.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 11 15:00:22 2018  
Response via : Initial Calibration



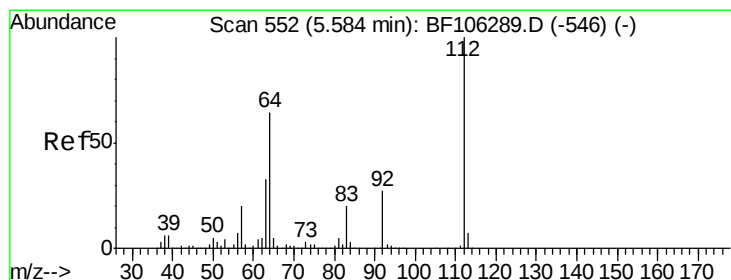
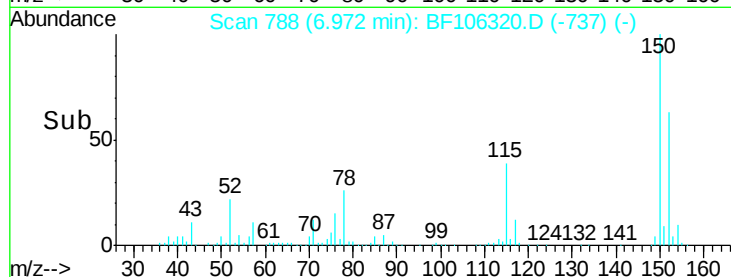
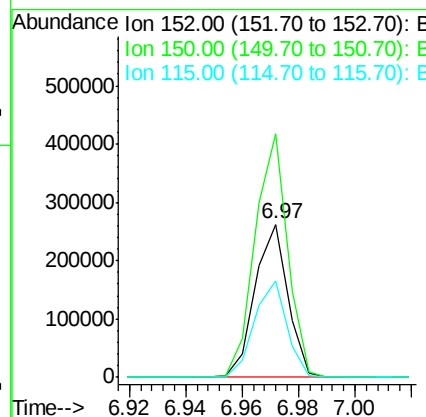
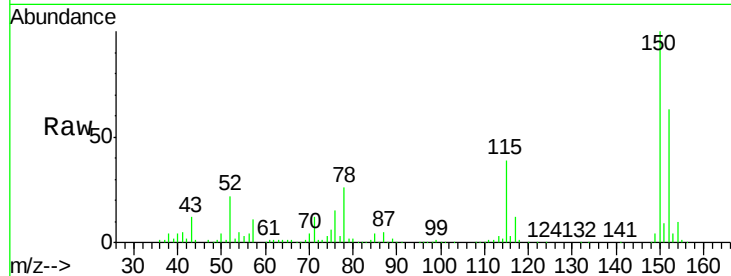


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 788  
Delta R.T. 0.00 min  
Lab File: BF106320.D  
Acq: 12 Jun 2018 2:41

Instrument :  
BNA\_F  
ClientSampleId :  
D-4

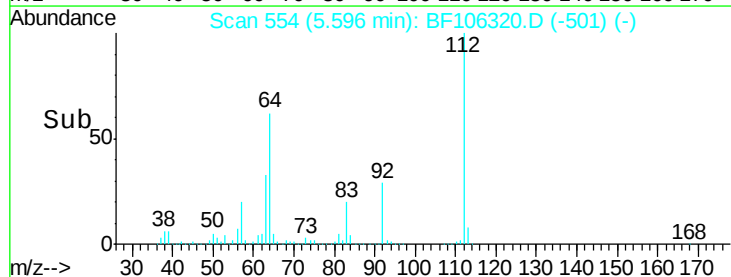
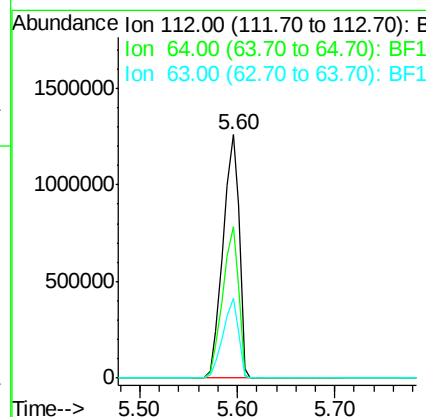
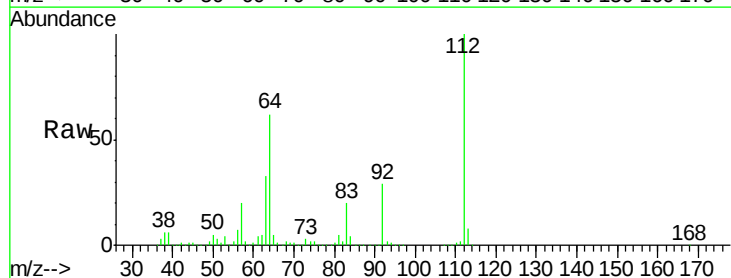
Tgt Ion:152 Resp: 211459  
Ion Ratio Lower Upper  
152 100  
150 158.8 124.6 186.8  
115 62.6 50.1 75.1

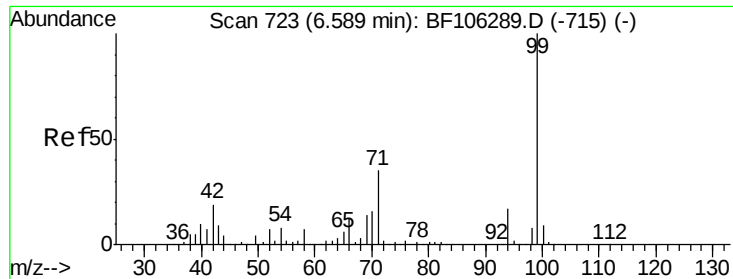


#5

2-Fluorophenol  
Concen: 115.915 ng  
RT: 5.60 min Scan# 554  
Delta R.T. 0.01 min  
Lab File: BF106320.D  
Acq: 12 Jun 2018 2:41

Tgt Ion:112 Resp: 1448231  
Ion Ratio Lower Upper  
112 100  
64 62.4 47.9 71.9  
63 32.5 23.7 35.5





#7

Phenol-d6

Concen: 112.324 ng

RT: 6.60 min Scan# 724

Delta R.T. 0.01 min

Lab File: BF106320.D

Acq: 12 Jun 2018 2:41

Instrument :

BNA\_F

ClientSampleId :

D-4

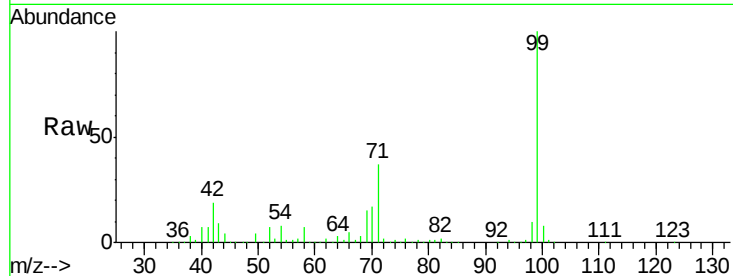
Tgt Ion: 99 Resp: 1773017

Ion Ratio Lower Upper

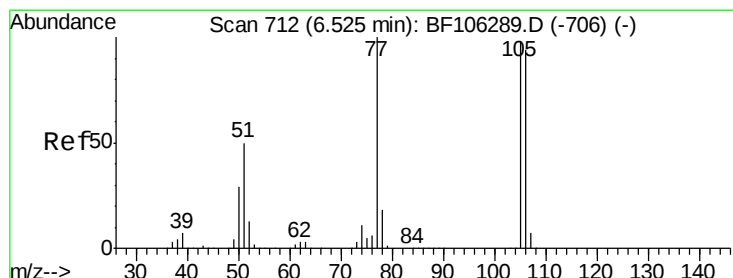
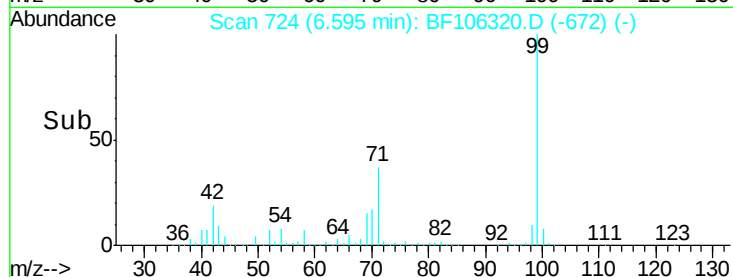
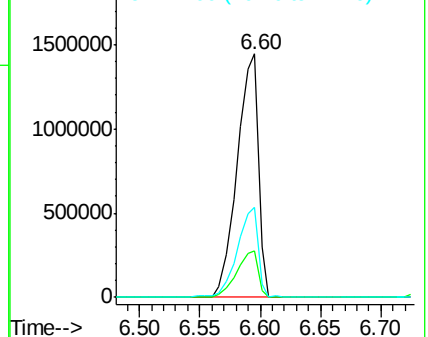
99 100

42 18.9 14.5 21.7

71 36.9 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



#9

Benzaldehyde

Concen: 3.063 ng

RT: 6.74 min Scan# 749

Delta R.T. 0.22 min

Lab File: BF106320.D

Acq: 12 Jun 2018 2:41

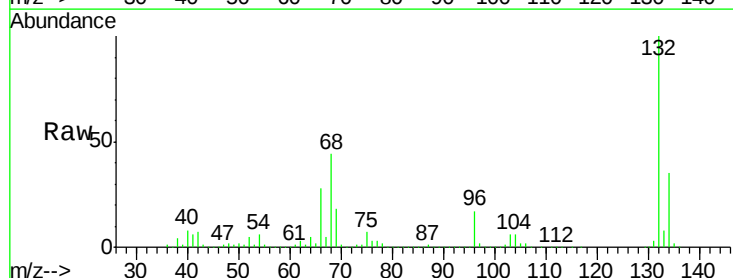
Tgt Ion: 77 Resp: 36672

Ion Ratio Lower Upper

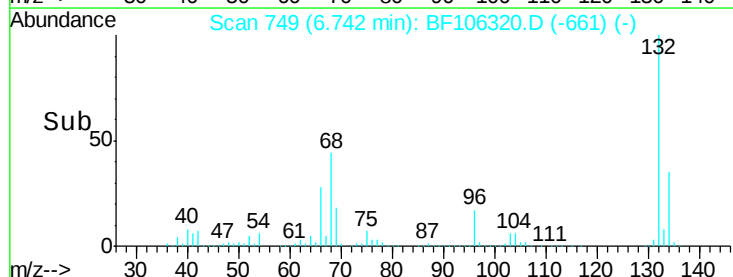
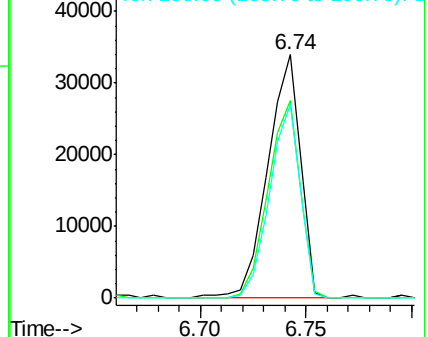
77 100

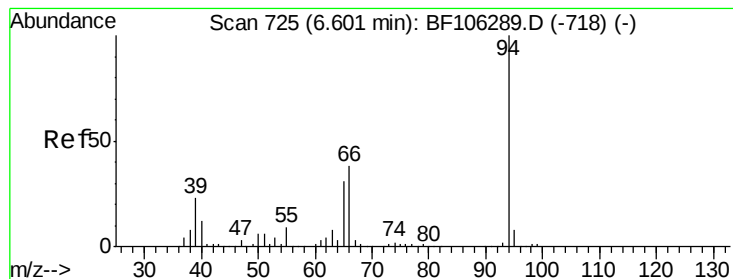
105 81.4 81.1 121.1

106 79.4 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 106.00 (105.70 to 106.70): BF1





#10

Phenol

Concen: 2.217 ng

RT: 6.60 min Scan# 725

Delta R.T. 0.00 min

Lab File: BF106320.D

Acq: 12 Jun 2018 2:41

Instrument :

BNA\_F

ClientSampled :

D-4

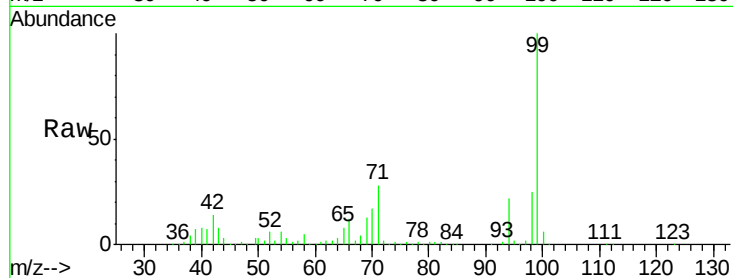
Tgt Ion: 94 Resp: 38211

Ion Ratio Lower Upper

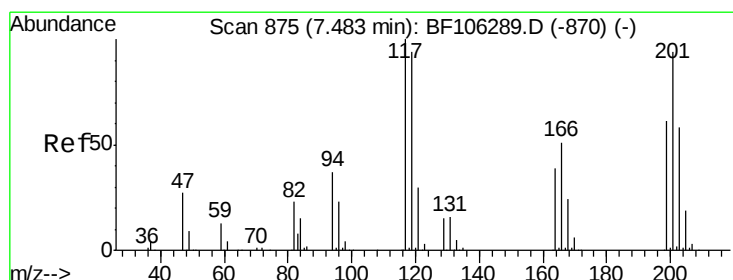
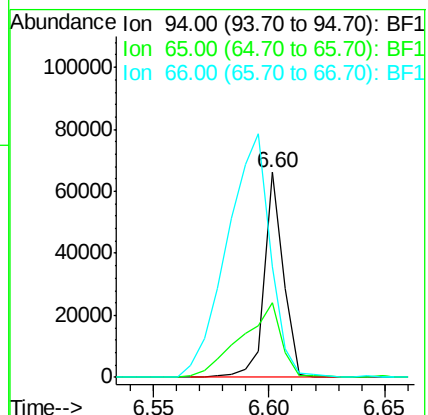
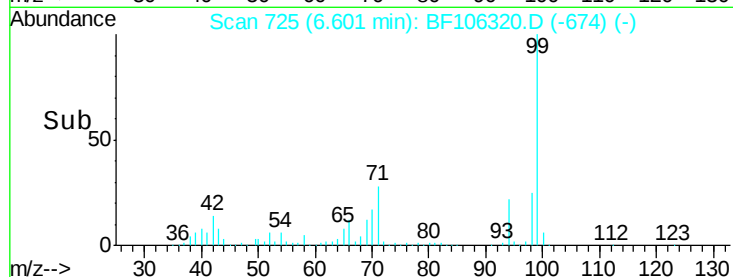
94 100

65 36.3 7.9 47.9

66 54.1 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1



#18

Hexachloroethane

Concen: 2.413 ng

RT: 7.50 min Scan# 878

Delta R.T. 0.02 min

Lab File: BF106320.D

Acq: 12 Jun 2018 2:41

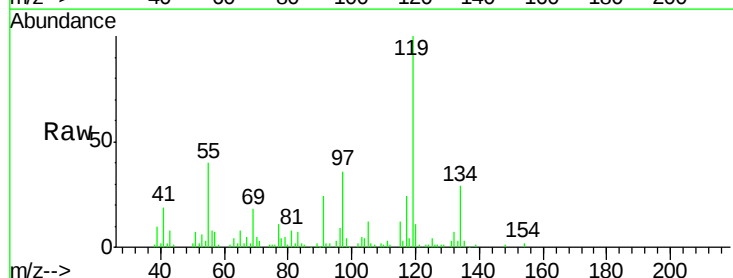
Tgt Ion: 117 Resp: 13798

Ion Ratio Lower Upper

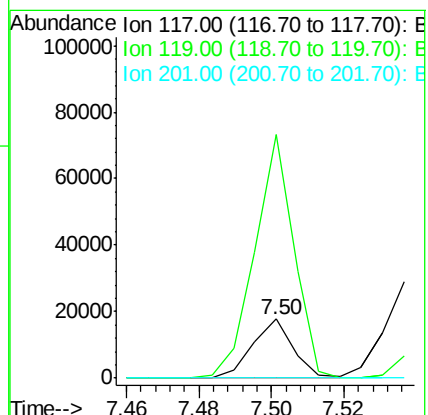
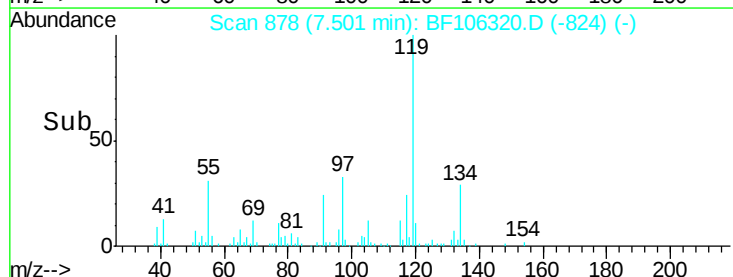
117 100

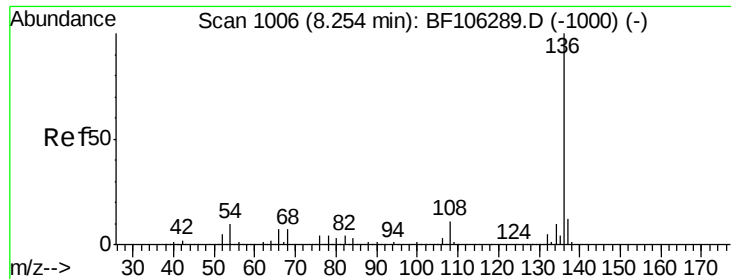
119 412.9 75.8 113.8#

201 0.0 75.7 113.5#



Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1006

Delta R.T. 0.00 min

Lab File: BF106320.D

Acq: 12 Jun 2018 2:41

Instrument :

BNA\_F

ClientSampled :

D-4

Tgt Ion: 136 Resp: 775547

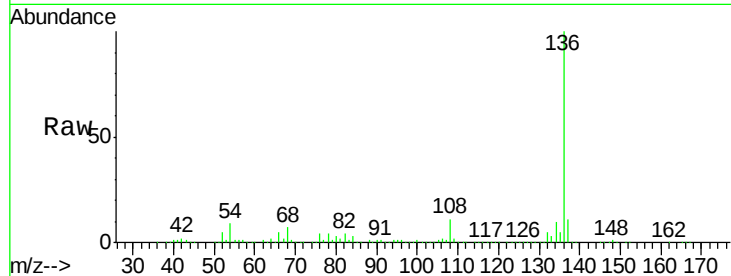
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 8.8 6.6 9.8

68 6.9 5.0 7.4

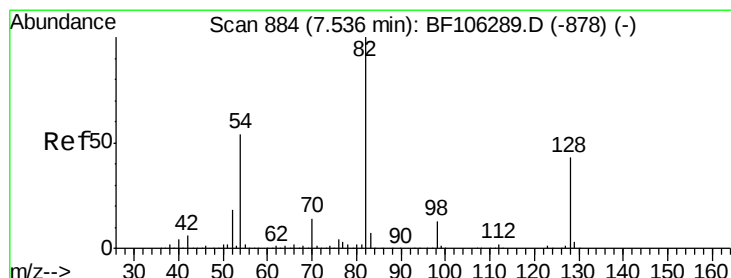
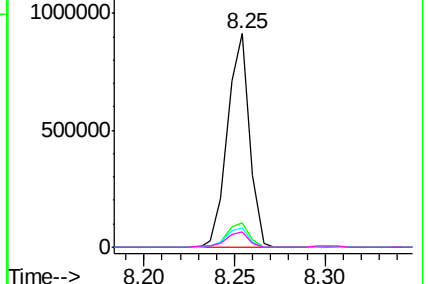
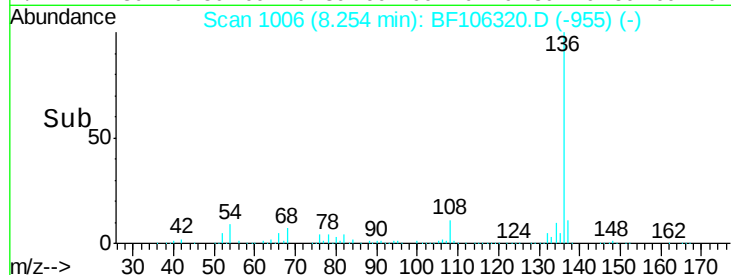


Abundance Ion 136.00 (135.70 to 136.70): E

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: 90.352 ng

RT: 7.54 min Scan# 884

Delta R.T. 0.00 min

Lab File: BF106320.D

Acq: 12 Jun 2018 2:41

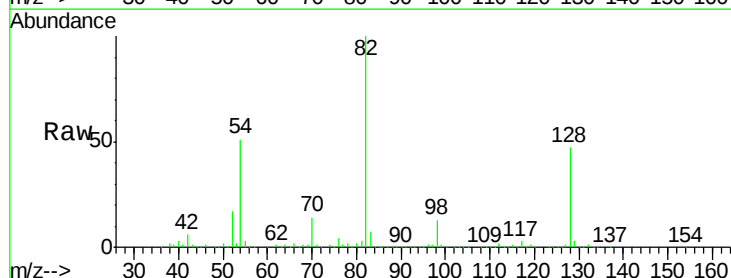
Tgt Ion: 82 Resp: 1191130

Ion Ratio Lower Upper

82 100

128 47.4 36.1 54.1

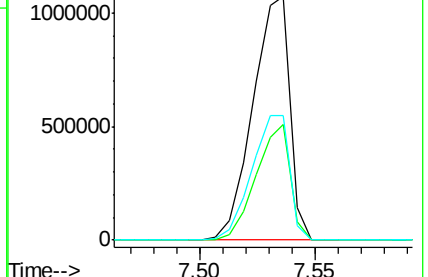
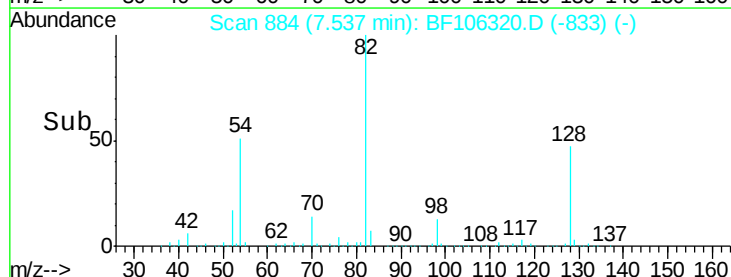
54 51.2 41.4 62.2

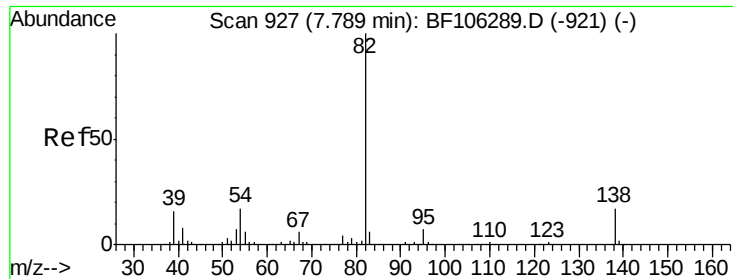


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

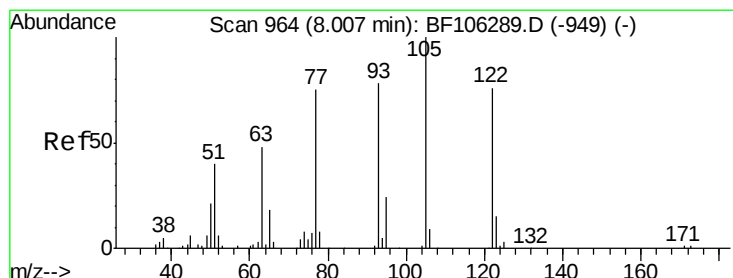
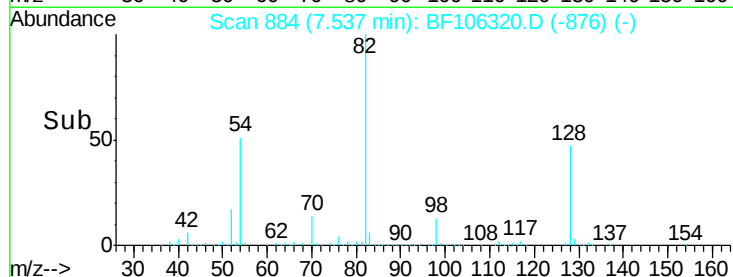
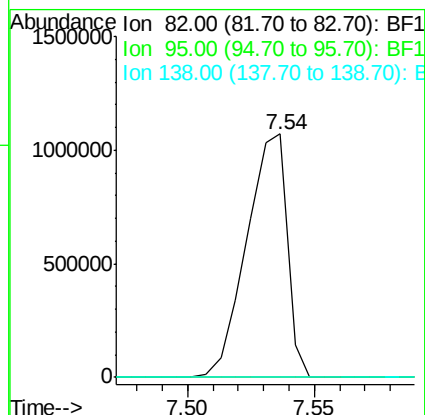
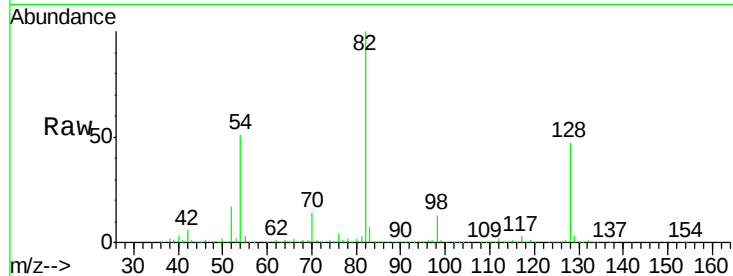




#25  
Isophorone  
Concen: 46.258 ng  
RT: 7.54 min Scan# 884  
Delta R.T. -0.25 min  
Lab File: BF106320.D  
Acq: 12 Jun 2018 2:41

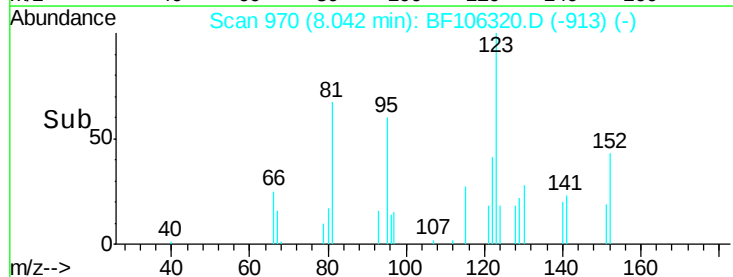
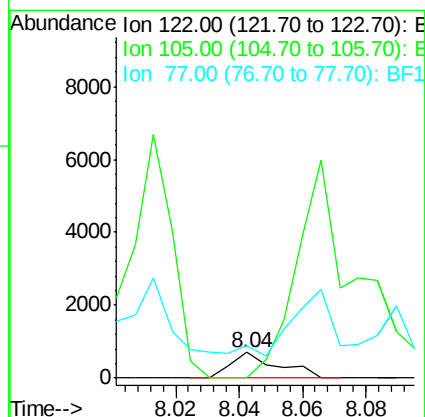
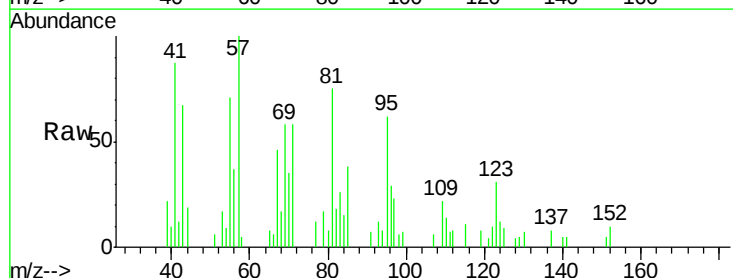
Instrument :  
BNA\_F  
ClientSampleId :  
D-4

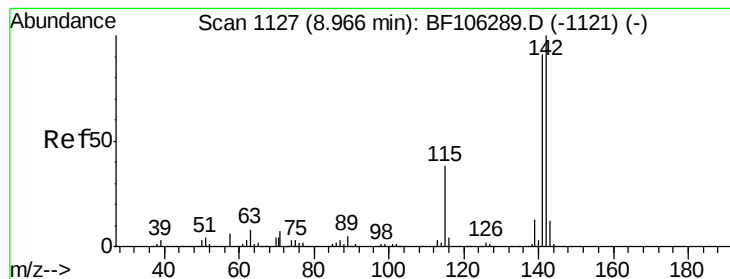
Tgt Ion: 82 Resp: 1191129  
Ion Ratio Lower Upper  
82 100  
95 0.3 5.2 7.8#  
138 0.0 14.9 22.3#



#32  
Benzoic acid  
Concen: 7.366 ng  
RT: 8.04 min Scan# 970  
Delta R.T. 0.04 min  
Lab File: BF106320.D  
Acq: 12 Jun 2018 2:41

Tgt Ion: 122 Resp: 728  
Ion Ratio Lower Upper  
122 100  
105 0.0 101.1 141.1#  
77 124.1 70.7 110.7#





#37

2-Methylnaphthalene

Concen: 9.797 ng

RT: 8.97 min Scan# 1127

Delta R.T. 0.00 min

Lab File: BF106320.D

Acq: 12 Jun 2018 2:41

Instrument :

BNA\_F

ClientSampleId :

D-4

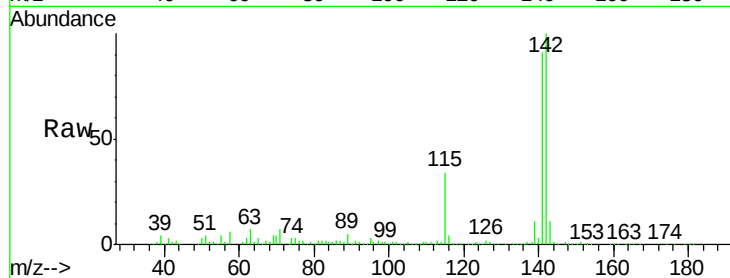
Tgt Ion:142 Resp: 233939

Ion Ratio Lower Upper

142 100

141 90.9 70.8 106.2

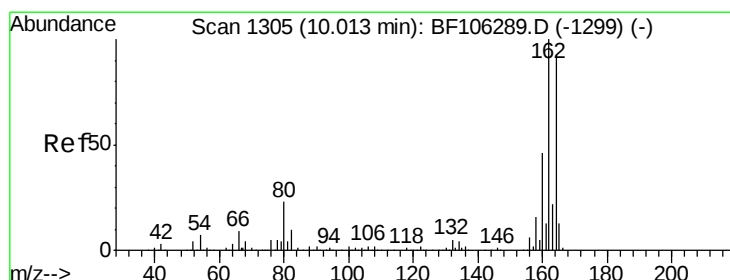
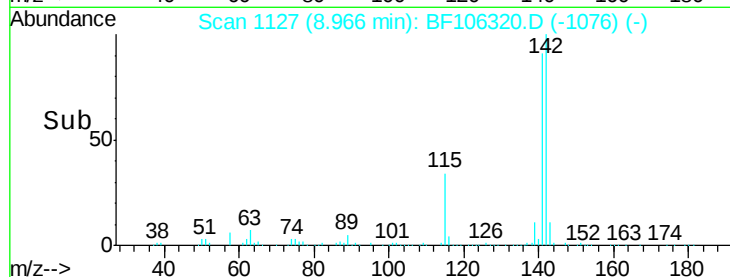
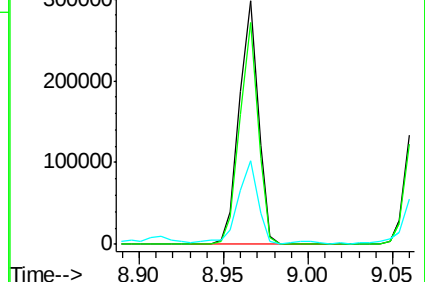
115 34.1 26.1 39.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BF106320.D

Acq: 12 Jun 2018 2:41

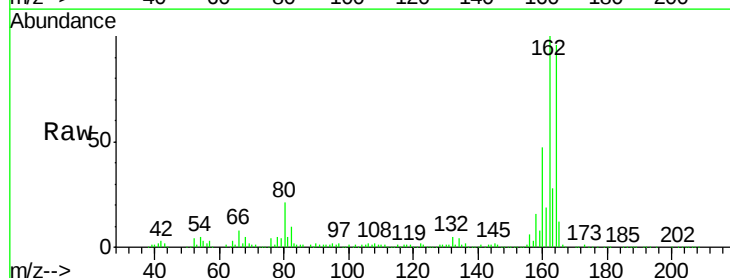
Tgt Ion:164 Resp: 365679

Ion Ratio Lower Upper

164 100

162 104.2 86.1 129.1

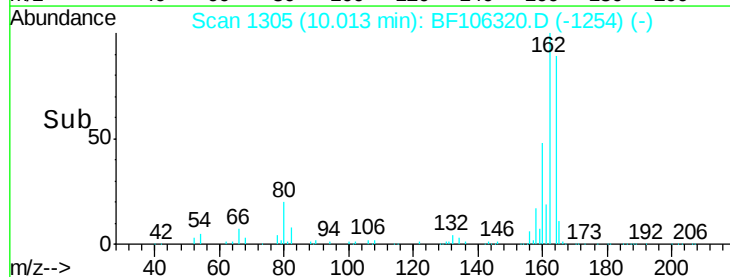
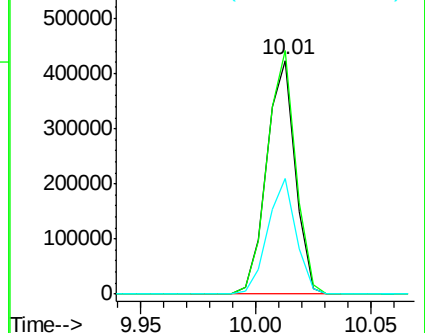
160 49.5 38.3 57.5

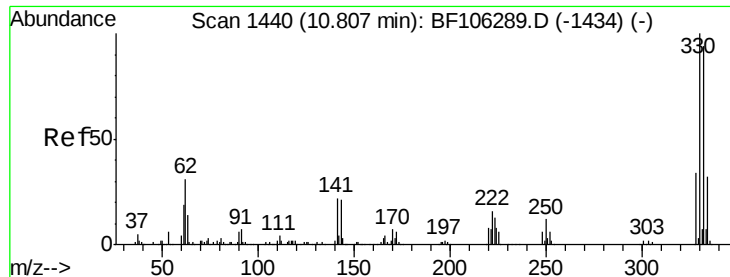


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

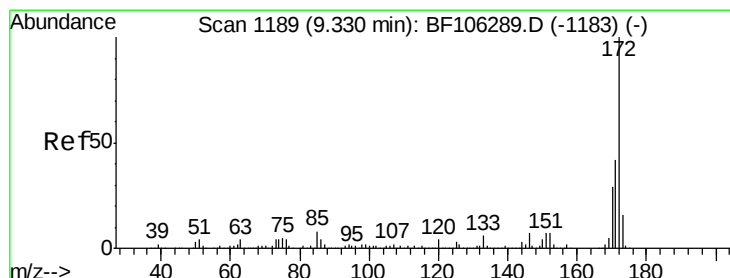
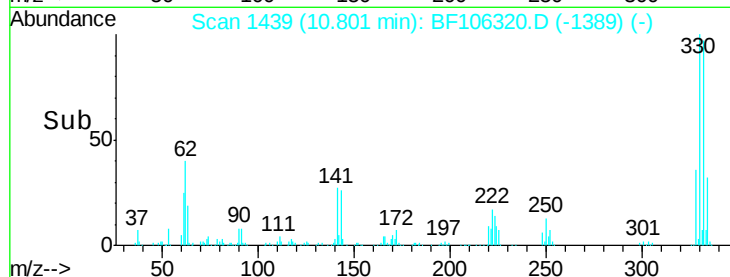
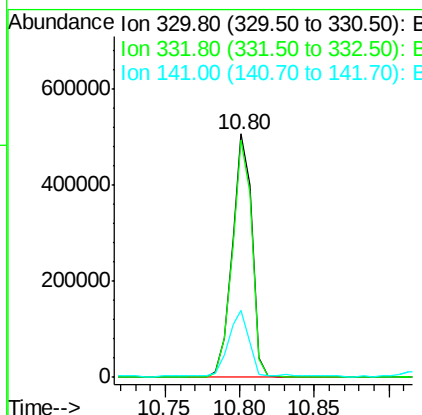
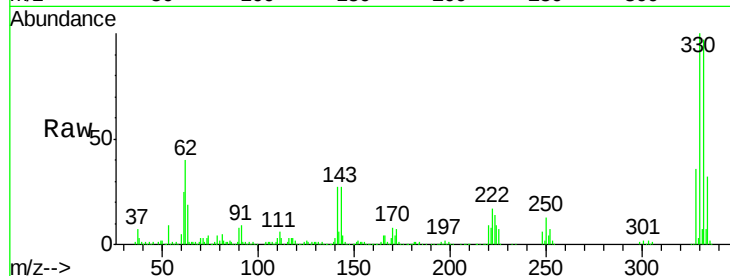




#41  
 2,4,6-Tribromophenol  
 Concen: 134.423 ng  
 RT: 10.80 min Scan# 1439  
 Delta R.T. -0.01 min  
 Lab File: BF106320.D  
 Acq: 12 Jun 2018 2:41

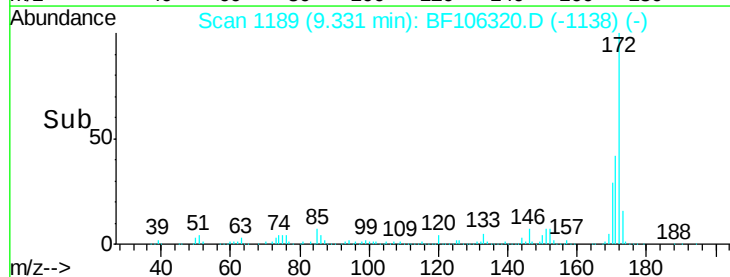
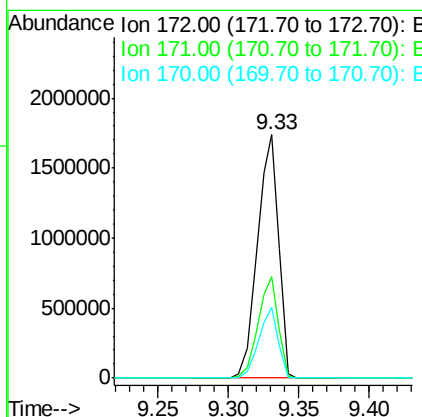
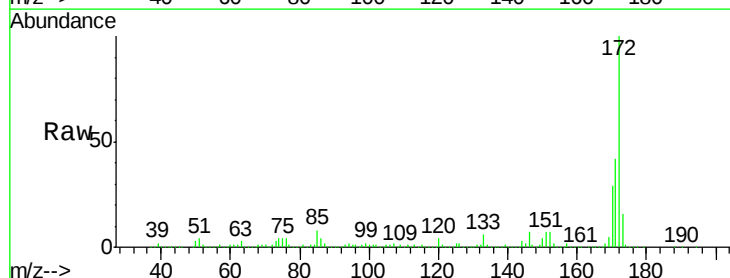
Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-4

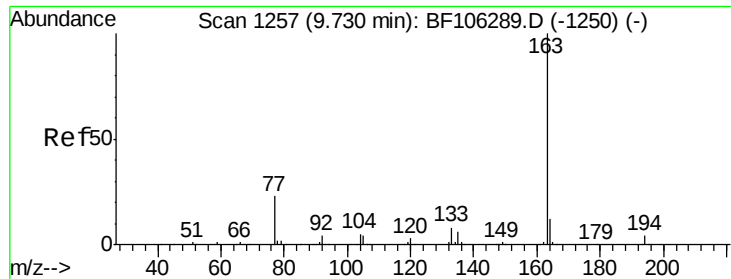
Tgt Ion:330 Resp: 472962  
 Ion Ratio Lower Upper  
 330 100  
 332 96.8 77.0 115.6  
 141 28.8 29.9 44.9#



#44  
 2-Fluorobiphenyl  
 Concen: 91.068 ng  
 RT: 9.33 min Scan# 1189  
 Delta R.T. 0.00 min  
 Lab File: BF106320.D  
 Acq: 12 Jun 2018 2:41

Tgt Ion:172 Resp: 1833838  
 Ion Ratio Lower Upper  
 172 100  
 171 41.7 29.7 44.5  
 170 28.8 19.6 29.4

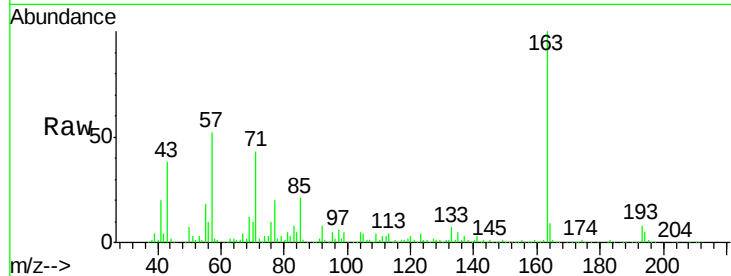




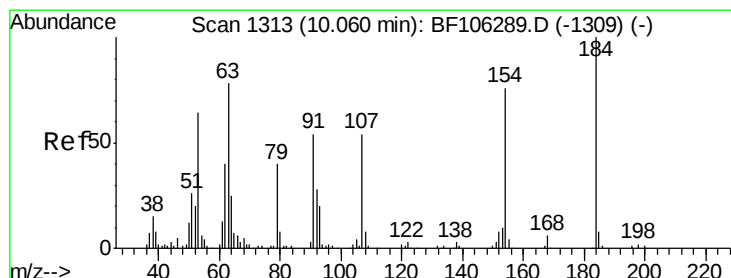
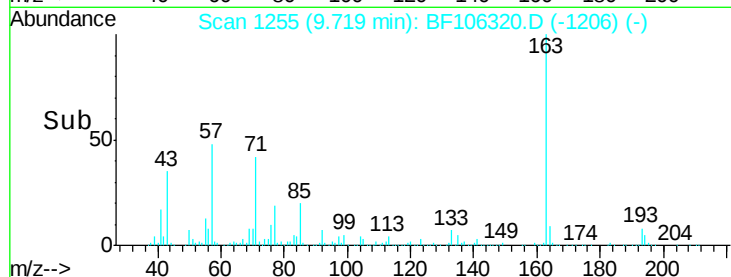
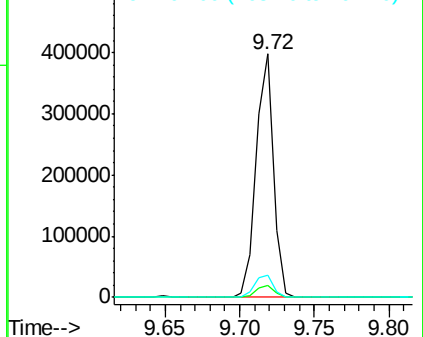
#49  
Dimethylphthalate  
Concen: 12.065 ng  
RT: 9.72 min Scan# 1255  
Delta R.T. -0.01 min  
Lab File: BF106320.D  
Acq: 12 Jun 2018 2:41

Instrument :  
BNA\_F  
ClientSampleId :  
D-4

Tgt Ion:163 Resp: 315197  
Ion Ratio Lower Upper  
163 100  
194 4.9 2.7 4.1#  
164 9.3 8.2 12.2

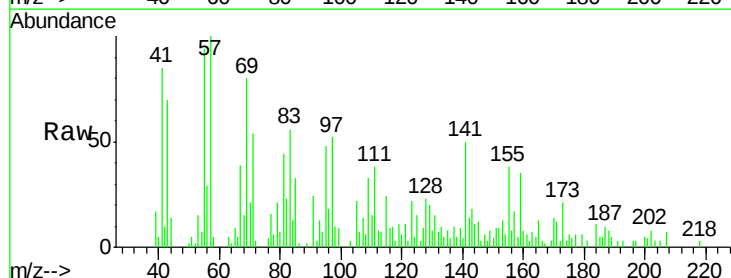


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

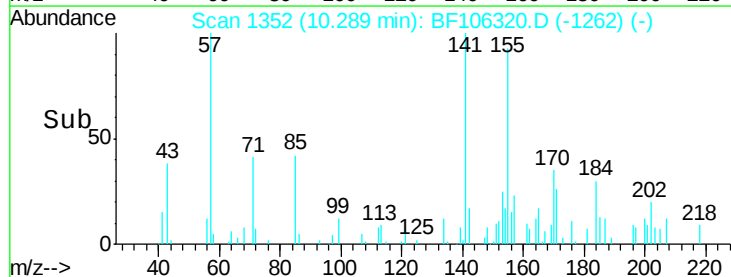
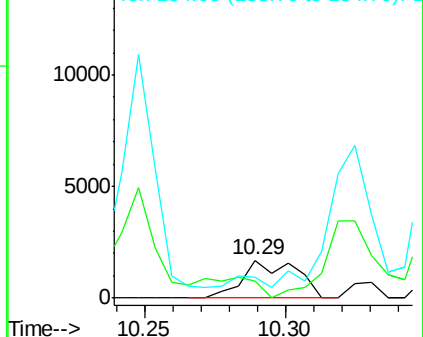


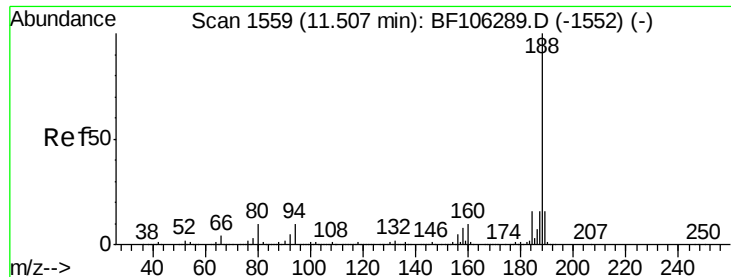
#53  
2,4-Dinitrophenol  
Concen: 9.420 ng  
RT: 10.29 min Scan# 1352  
Delta R.T. 0.23 min  
Lab File: BF106320.D  
Acq: 12 Jun 2018 2:41

Tgt Ion:184 Resp: 2214  
Ion Ratio Lower Upper  
184 100  
63 45.7 54.2 81.2#  
154 55.6 184.0 276.0#



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 154.00 (153.70 to 154.70): E

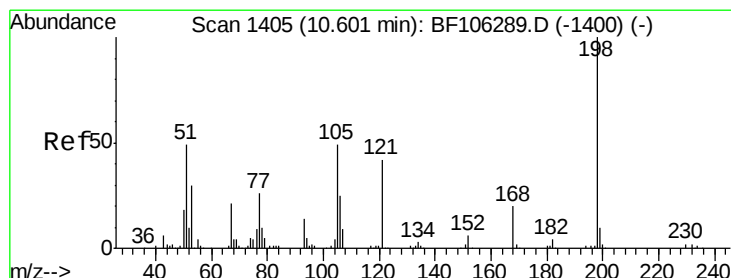
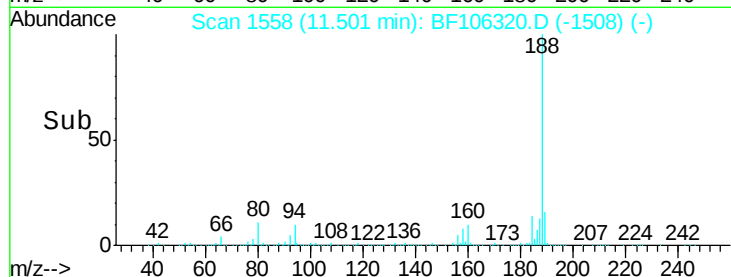
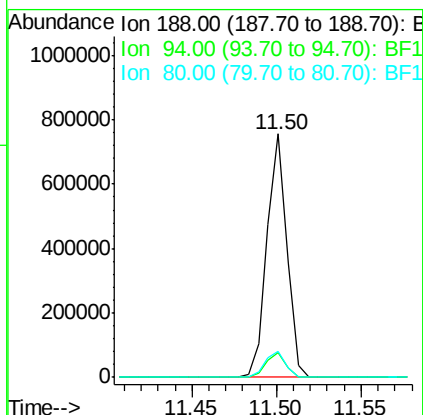
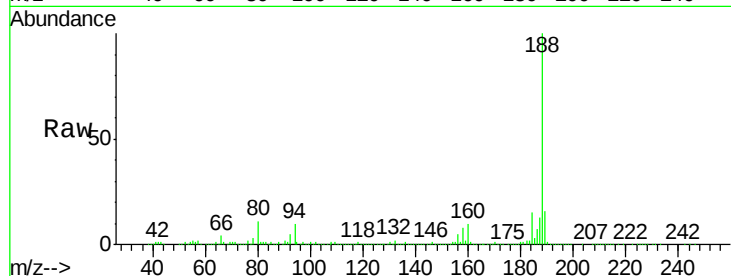




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.50 min Scan# 1558  
Delta R.T. -0.01 min  
Lab File: BF106320.D  
Acq: 12 Jun 2018 2:41

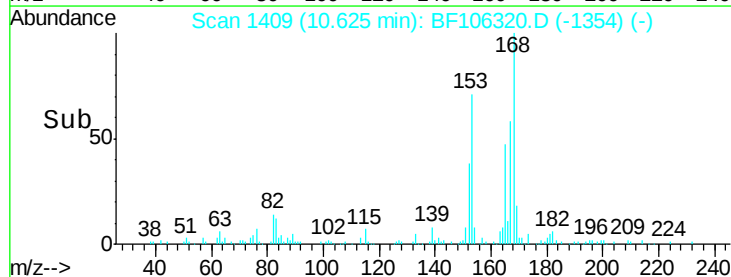
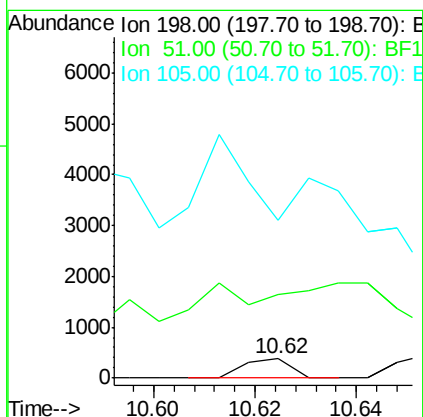
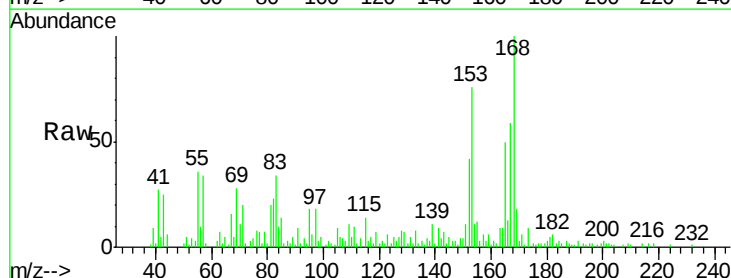
Instrument :  
BNA\_F  
ClientSampled :  
D-4

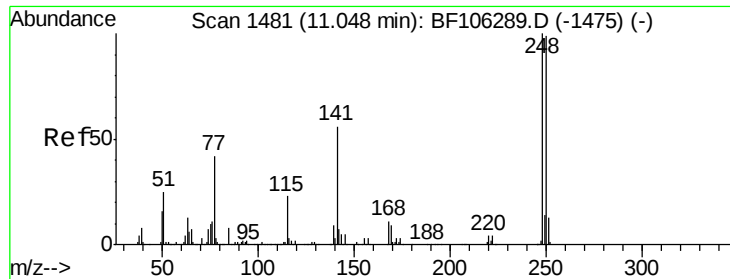
Tgt Ion:188 Resp: 615029  
Ion Ratio Lower Upper  
188 100  
94 10.1 8.5 12.7  
80 10.7 9.2 13.8



#64  
4,6-Dinitro-2-methylphenol  
Concen: 6.358 ng  
RT: 10.62 min Scan# 1409  
Delta R.T. 0.02 min  
Lab File: BF106320.D  
Acq: 12 Jun 2018 2:41

Tgt Ion:198 Resp: 243  
Ion Ratio Lower Upper  
198 100  
51 434.6 37.7 77.7#  
105 821.6 36.3 76.3#

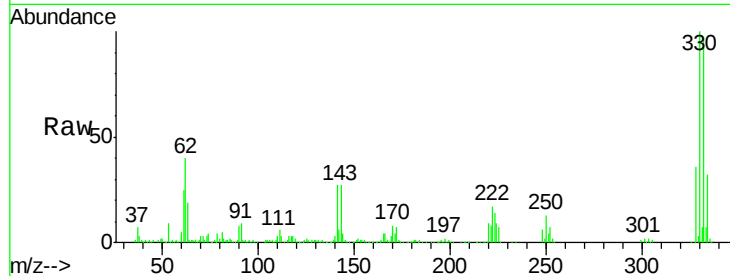




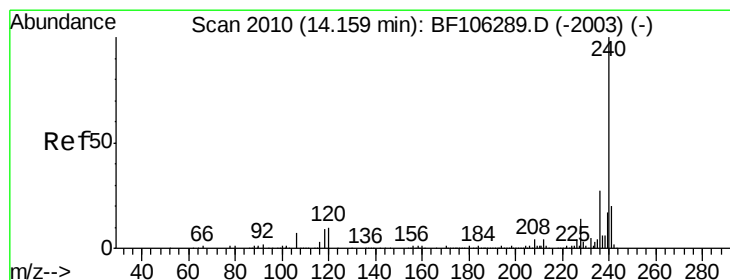
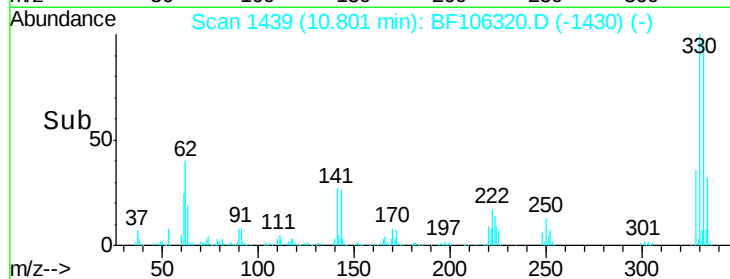
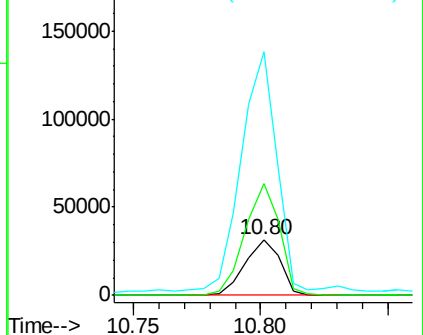
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.376 ng  
 RT: 10.80 min Scan# 1439  
 Delta R.T. -0.25 min  
 Lab File: BF106320.D  
 Acq: 12 Jun 2018 2:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-4

Tgt Ion: 248 Resp: 30612  
 Ion Ratio Lower Upper  
 248 100  
 250 200.1 76.9 115.3#  
 141 436.7 74.4 111.6#

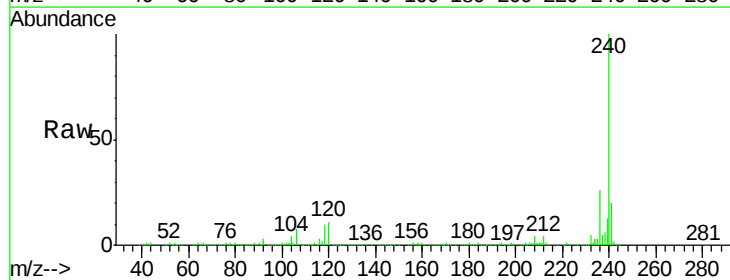


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

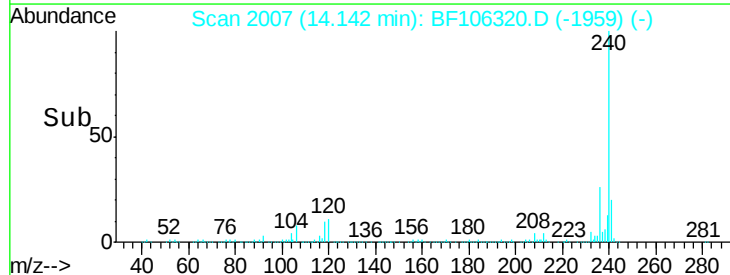
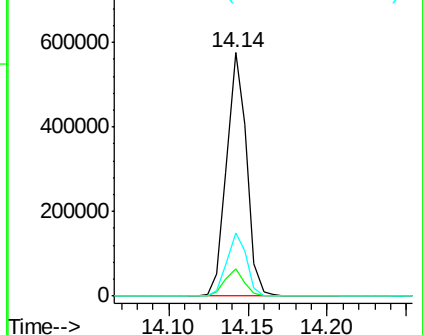


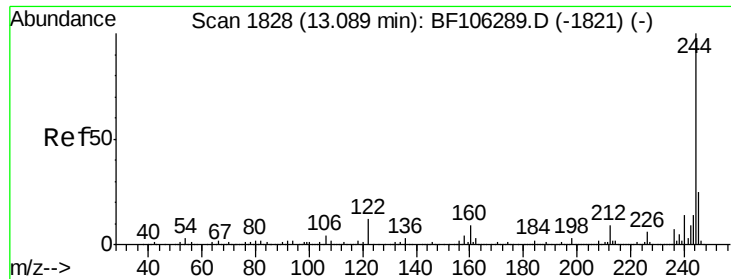
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.14 min Scan# 2007  
 Delta R.T. -0.02 min  
 Lab File: BF106320.D  
 Acq: 12 Jun 2018 2:41

Tgt Ion: 240 Resp: 504266  
 Ion Ratio Lower Upper  
 240 100  
 120 11.3 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





#78

Terphenyl-d14

Concen: 81.972 ng

RT: 13.08 min Scan# 1827

Delta R.T. -0.01 min

Lab File: BF106320.D

Acq: 12 Jun 2018 2:41

Instrument :

BNA\_F

ClientSampleId :

D-4

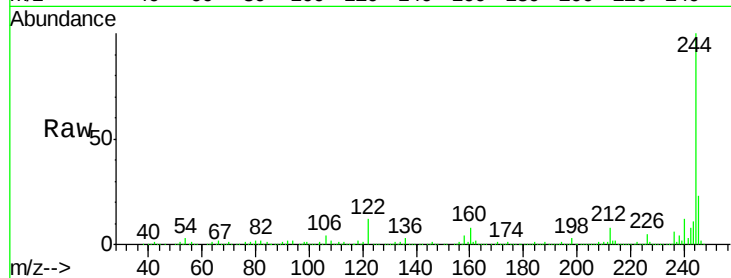
Tgt Ion:244 Resp: 1664220

Ion Ratio Lower Upper

244 100

212 8.0 5.4 8.0

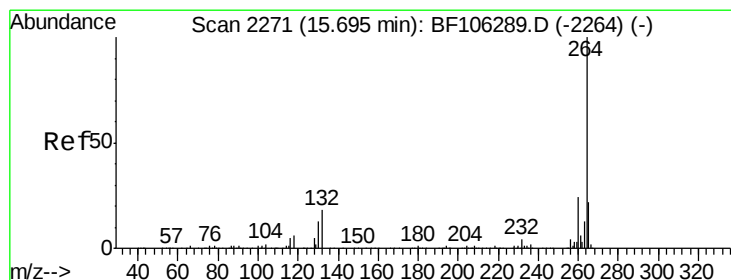
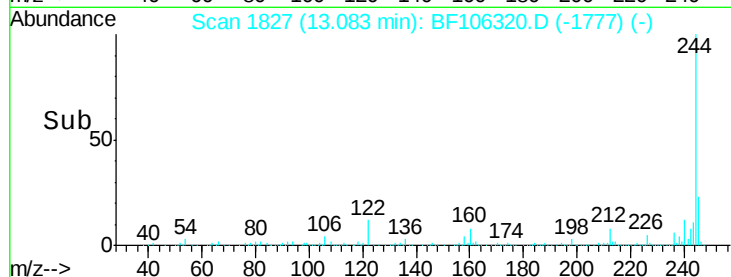
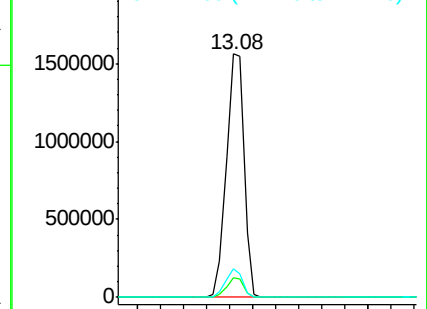
122 12.0 11.0 16.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.67 min Scan# 2267

Delta R.T. -0.02 min

Lab File: BF106320.D

Acq: 12 Jun 2018 2:41

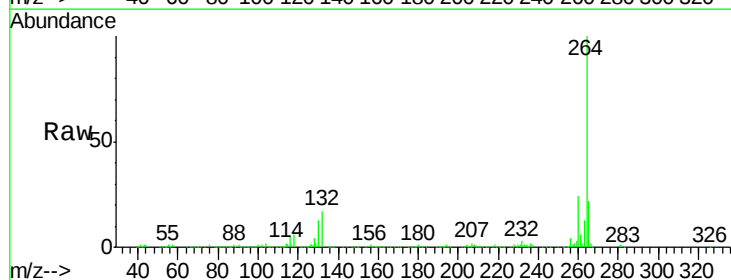
Tgt Ion:264 Resp: 389272

Ion Ratio Lower Upper

264 100

260 24.3 19.2 28.8

265 21.9 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

