

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051016\  
 Data File : BF086857.D  
 Acq On : 10 May 2016 13:56  
 Operator : UM/SJ  
 Sample : H2817-15DL 5X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-BNA-SOILD

Quant Time: May 11 03:40:38 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 09 16:04:56 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.68  | 152  | 178391   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 7.97  | 136  | 769787   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.72  | 164  | 384801   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.20 | 188  | 689324   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.82 | 240  | 538365   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.20 | 264  | 496695   | 20.00 | ng    | -0.01    |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 5.28  | 112 | 245405 | 23.30 | ng | -0.01 |
| 7) Phenol-d6                | 6.34  | 99  | 354431 | 25.18 | ng | -0.02 |
| 23) Nitrobenzene-d5         | 7.25  | 82  | 232734 | 15.18 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol    | 10.51 | 330 | 100388 | 24.64 | ng | -0.01 |
| 44) 2-Fluorobiphenyl        | 9.05  | 172 | 458592 | 20.03 | ng | -0.01 |
| 78) Terphenyl-d14           | 12.77 | 244 | 426089 | 16.79 | ng | -0.02 |

|                                |       |     |         |        |    |      |
|--------------------------------|-------|-----|---------|--------|----|------|
| Target Compounds               |       |     |         | Qvalue |    |      |
| 8) 2-Chlorophenol              | 6.48  | 128 | 264922  | 20.84  | ng | 100  |
| 10) Phenol                     | 6.35  | 94  | 479008  | 28.63  | ng | 84   |
| 11) bis(2-Chloroethyl)ether    | 6.43  | 93  | 310354  | 23.79  | ng | 94   |
| 12) 1,3-Dichlorobenzene        | 6.62  | 146 | 558780  | 40.62  | ng | 98   |
| 13) 1,4-Dichlorobenzene        | 6.70  | 146 | 625705  | 44.61  | ng | 97   |
| 14) 1,2-Dichlorobenzene        | 6.85  | 146 | 616208  | 50.40  | ng | 96   |
| 18) Hexachloroethane           | 7.20  | 117 | 235881  | 44.69  | ng | # 89 |
| 24) Nitrobenzene               | 7.52  | 77  | 35770   | 2.27   | ng | # 75 |
| 25) Isophorone                 | 7.52  | 82  | 1033983 | 36.35  | ng | 98   |
| 26) 2-Nitrophenol              | 7.52  | 139 | 15924   | 2.30   | ng | # 29 |
| 29) 2,4-Dichlorophenol         | 7.85  | 162 | 161820  | 15.57  | ng | 96   |
| 30) 1,2,4-Trichlorobenzene     | 7.92  | 180 | 355433  | 30.59  | ng | 99   |
| 31) Naphthalene                | 8.00  | 128 | 564302  | 14.64  | ng | 99   |
| 33) 4-Chloroaniline            | 8.00  | 127 | 71759   | 4.79   | ng | # 35 |
| 34) Hexachlorobutadiene        | 8.11  | 225 | 98248   | 14.57  | ng | 99   |
| 35) Caprolactam                | 8.54  | 113 | 12734   | 3.60   | ng | # 22 |
| 36) 4-Chloro-3-methylphenol    | 8.54  | 107 | 455157  | 36.11  | ng | 100  |
| 37) 2-Methylnaphthalene        | 8.68  | 142 | 934668  | 41.47  | ng | # 96 |
| 42) 2,4,6-Trichlorophenol      | 8.97  | 196 | 218434  | 29.20  | ng | 95   |
| 43) 2,4,5-Trichlorophenol      | 9.01  | 196 | 107173  | 13.85  | ng | # 92 |
| 46) 2-Chloronaphthalene        | 9.17  | 162 | 541718  | 22.59  | ng | 99   |
| 48) Acenaphthylene             | 9.76  | 152 | 244220  | 6.92   | ng | # 1  |
| 50) 2,6-Dinitrotoluene         | 9.72  | 165 | 48816   | 7.90   | ng | # 21 |
| 51) Acenaphthene               | 9.76  | 154 | 465299  | 21.21  | ng | 98   |
| 55) 4-Nitrophenol              | 9.87  | 139 | 144229  | 35.92  | ng | # 65 |
| 56) 2,4-Dinitrotoluene         | 9.72  | 165 | 48808   | 6.38   | ng | # 16 |
| 59) Diethylphthalate           | 10.16 | 149 | 556774  | 19.46  | ng | 94   |
| 60) 4-Chlorophenyl-phenylether | 10.26 | 204 | 421873  | 39.05  | ng | 95   |
| 62) Azobenzene                 | 10.26 | 77  | 213162  | 6.91   | ng | # 21 |
| 66) 4-Bromophenyl-phenylether  | 10.75 | 248 | 149740  | 21.43  | ng | # 89 |
| 68) Atrazine                   | 11.01 | 200 | 22188   | 3.14   | ng | # 36 |
| 69) Pentachlorophenol          | 11.01 | 266 | 119196  | 31.58  | ng | 97   |
| 70) Phenanthrene               | 11.28 | 178 | 802673  | 21.82  | ng | 99   |
| 71) Anthracene                 | 11.28 | 178 | 804522  | 21.38  | ng | 99   |

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Instrument :  
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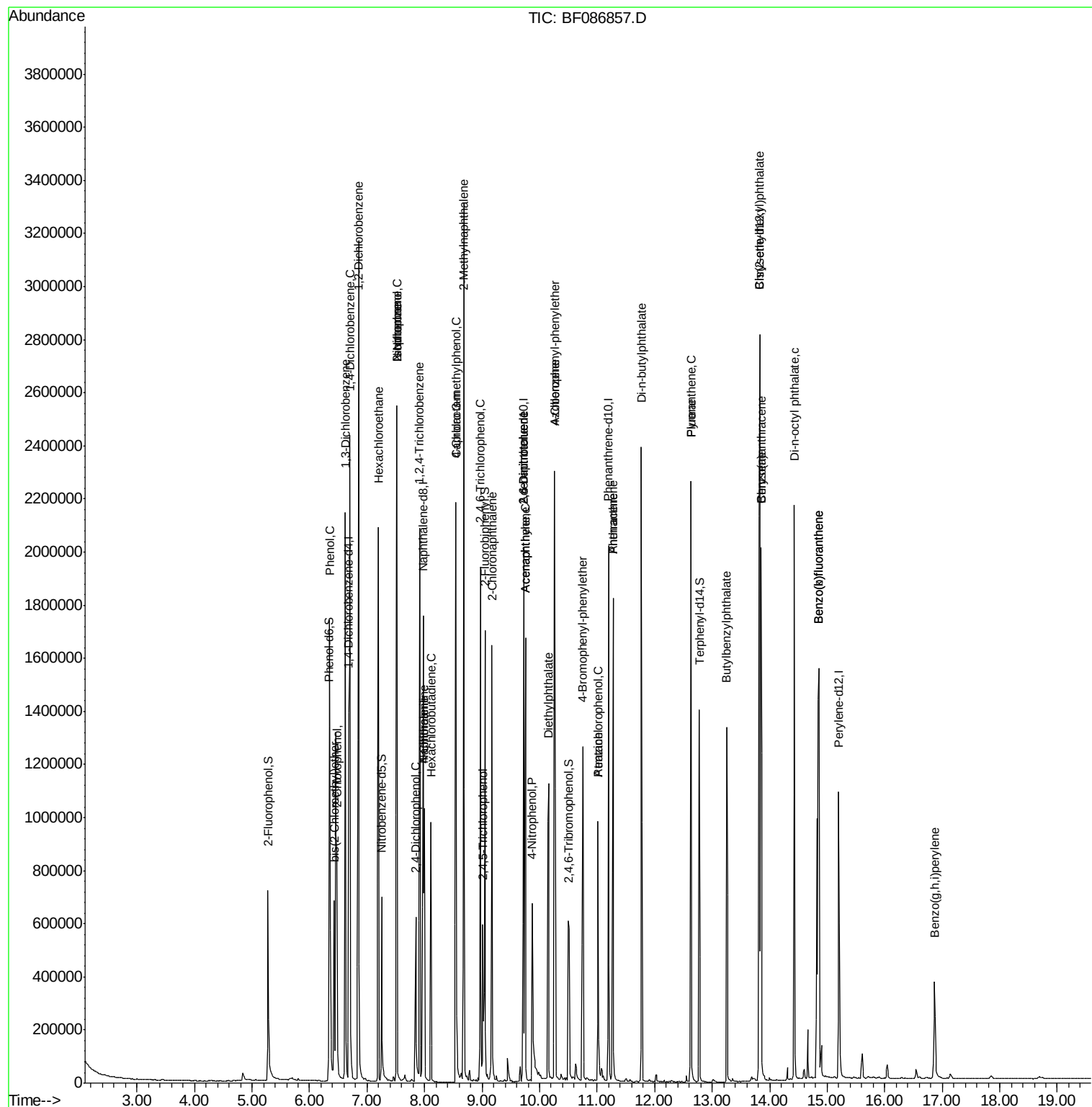
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 73) Di-n-butylphthalate        | 11.77 | 149  | 1244155  | 31.50 | ng    | # 98     |
| 74) Fluoranthene               | 12.64 | 202  | 1218184  | 32.20 | ng    | 93       |
| 77) Pyrene                     | 12.64 | 202  | 1230062  | 29.84 | ng    | 99       |
| 79) Butylbenzylphthalate       | 13.25 | 149  | 328260   | 18.83 | ng    | # 59     |
| 80) Benzo(a)anthracene         | 13.85 | 228  | 884991   | 29.28 | ng    | 96       |
| 82) Chrysene                   | 13.85 | 228  | 884991   | 28.79 | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 13.82 | 149  | 562696   | 26.83 | ng    | # 99     |
| 84) Di-n-octyl phthalate       | 14.43 | 149  | 1038416  | 29.89 | ng    | # 85     |
| 87) Benzo(b)fluoranthene       | 14.85 | 252  | 1327876  | 41.14 | ng    | # 92     |
| 88) Benzo(k)fluoranthene       | 14.85 | 252  | 1329397  | 50.30 | ng    | # 95     |
| 91) Benzo(a,h,i)perylene       | 16.87 | 276  | 279013   | 11.70 | ng    | 94       |

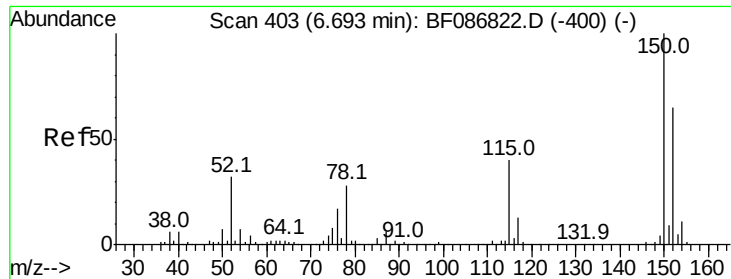
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_F  
ClientSampled :  
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QLast Update : Mon May 09 16:04:56 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 402

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILD

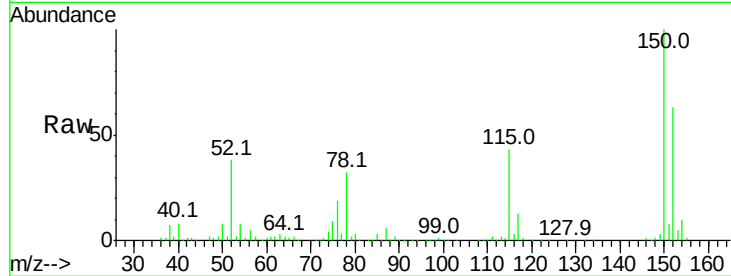
Tot Ion:152 Resp: 178391

Ion Ratio Lower Upper

152 100

150 159.1 125.8 188.6

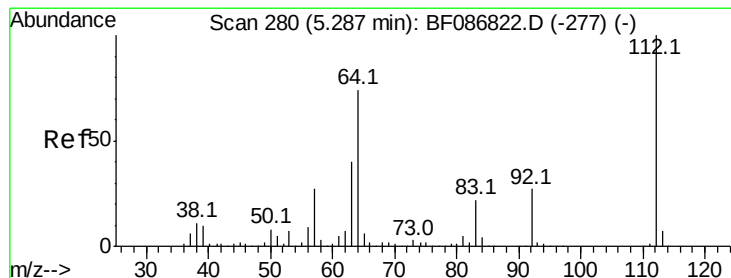
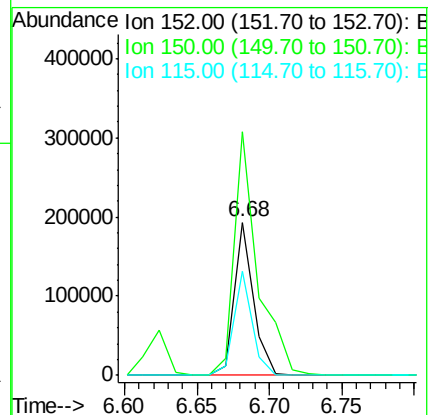
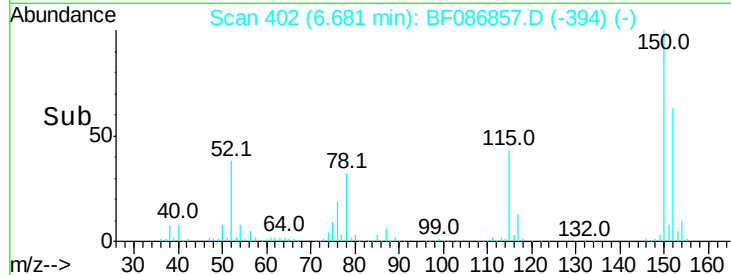
115 68.3 51.5 77.3



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: 23.30 ng

RT: 5.28 min Scan# 279

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

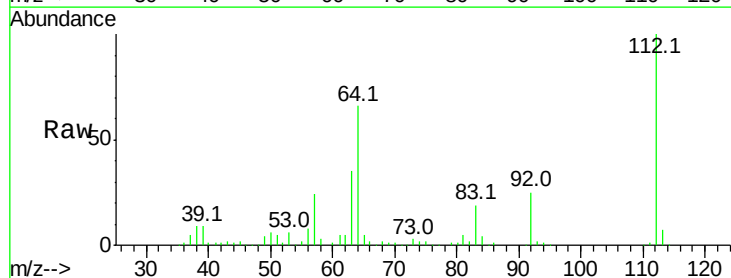
Tgt Ion:112 Resp: 245405

Ion Ratio Lower Upper

112 100

64 66.1 52.1 78.1

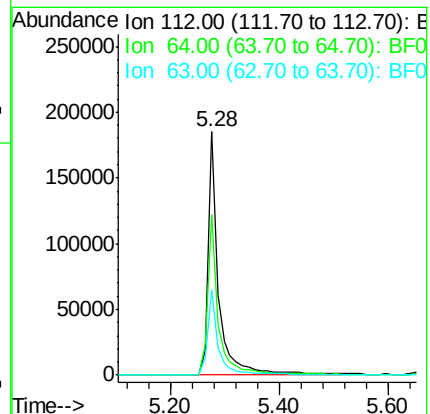
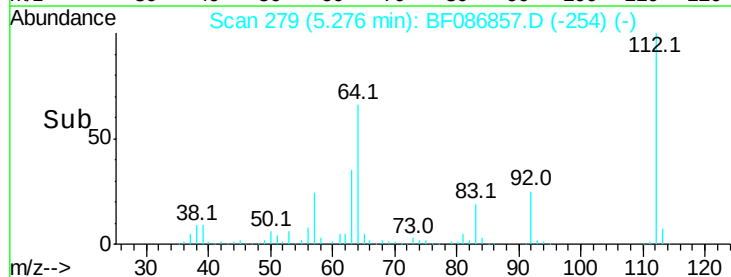
63 34.9 25.7 38.5

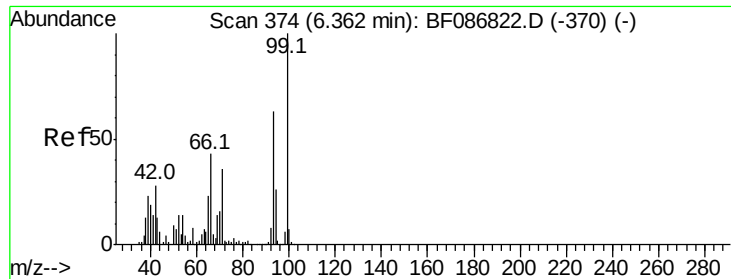


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 25.18 ng

RT: 6.34 min Scan# 372

Delta R.T. -0.02 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILDL

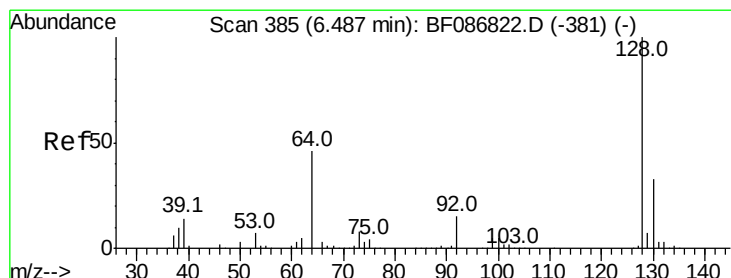
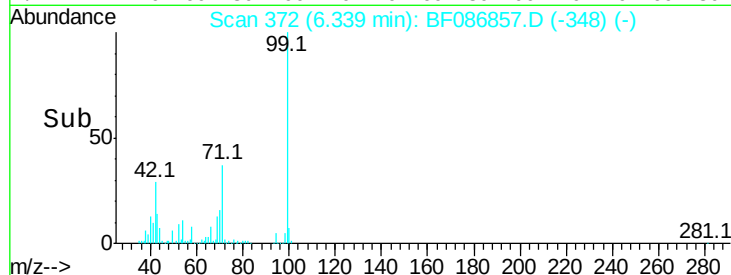
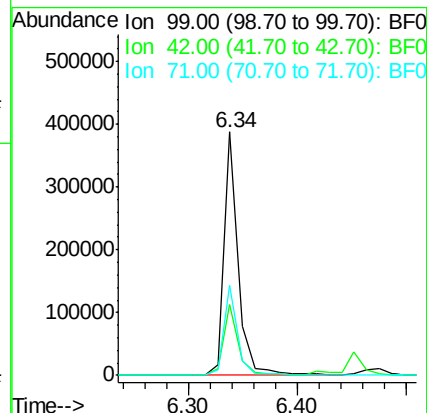
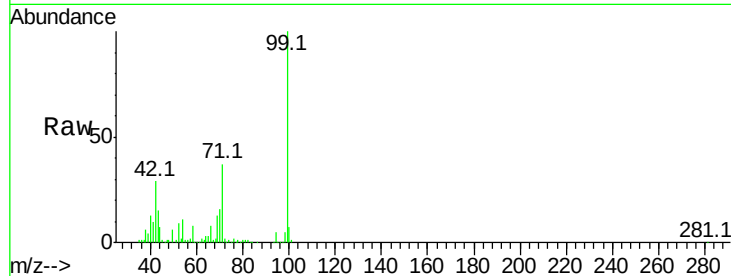
Tot Ion: 99 Resp: 354431

Ion Ratio Lower Upper

99 100

42 29.3 13.6 20.4#

71 37.0 24.6 36.8#



#8

2-Chlorophenol

Concen: 20.84 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

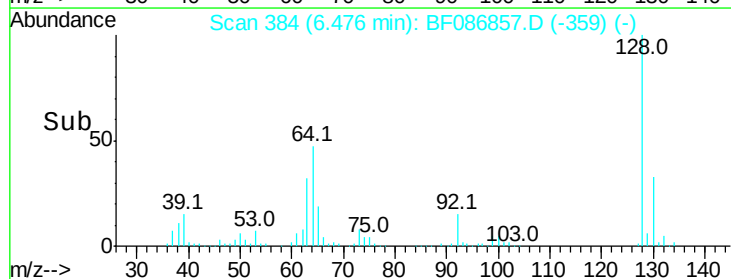
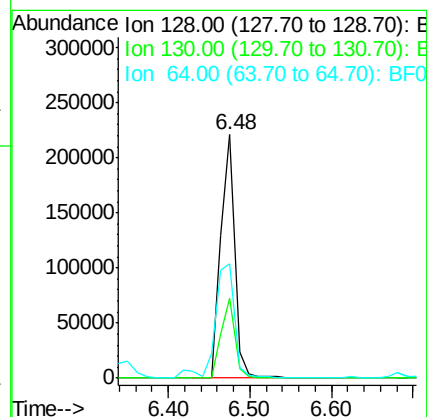
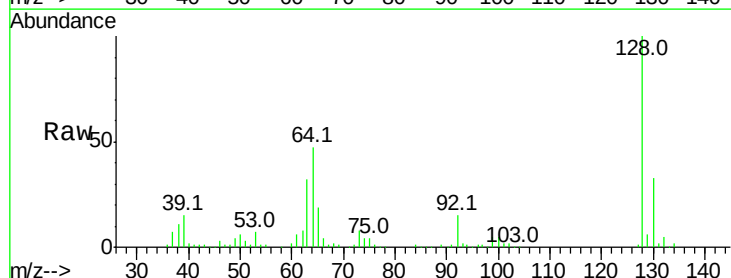
Tgt Ion: 128 Resp: 264922

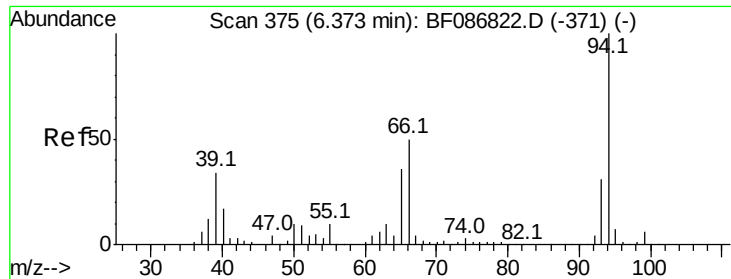
Ion Ratio Lower Upper

128 100

130 32.6 12.5 52.5

64 47.0 27.3 67.3





#10

Phenol

Concen: 28.63 ng

RT: 6.35 min Scan# 373

Delta R.T. -0.02 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILD

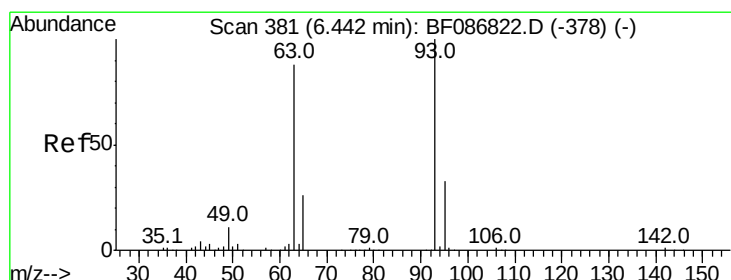
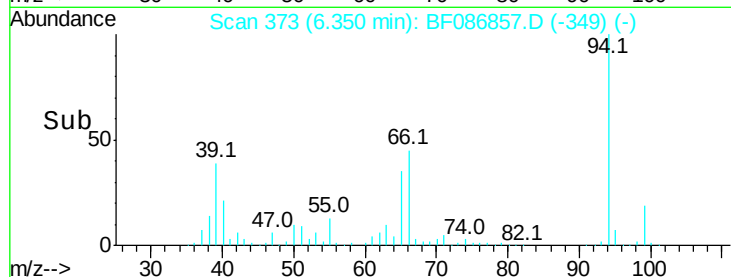
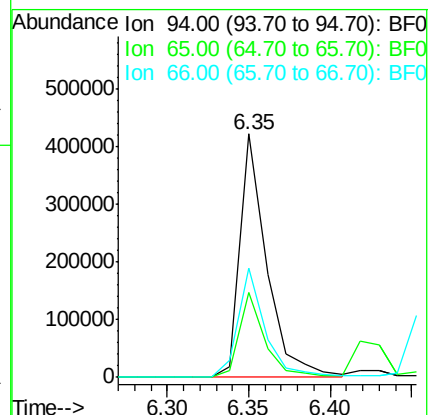
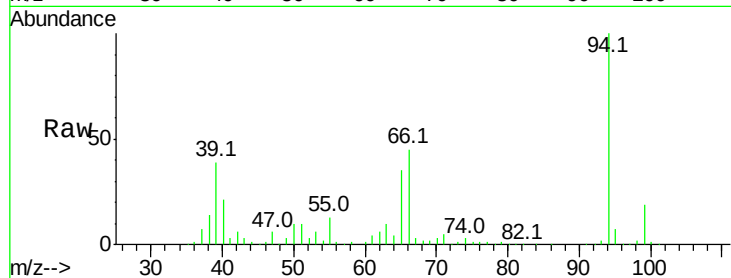
Tot Ion: 94 Resp: 479008

Ion Ratio Lower Upper

94 100

65 35.0 7.2 47.2

66 44.9 14.9 54.9



#11

bis(2-Chloroethyl)ether

Concen: 23.79 ng

RT: 6.43 min Scan# 380

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

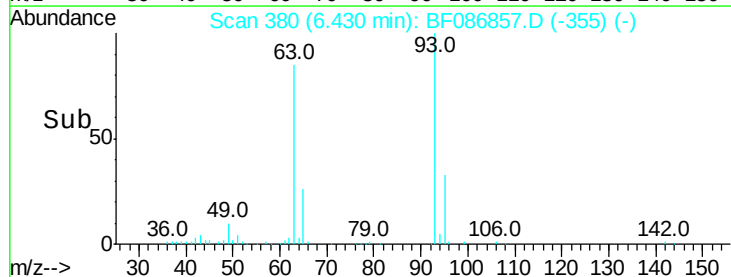
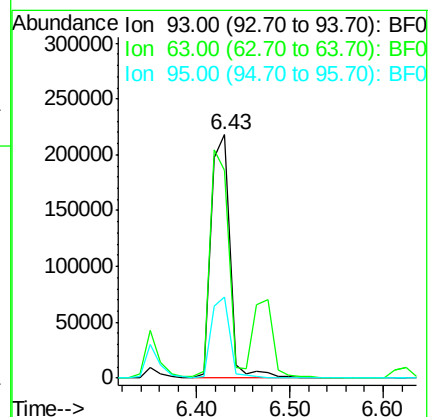
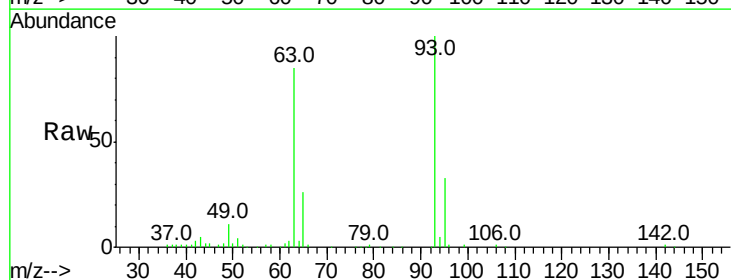
Tgt Ion: 93 Resp: 310354

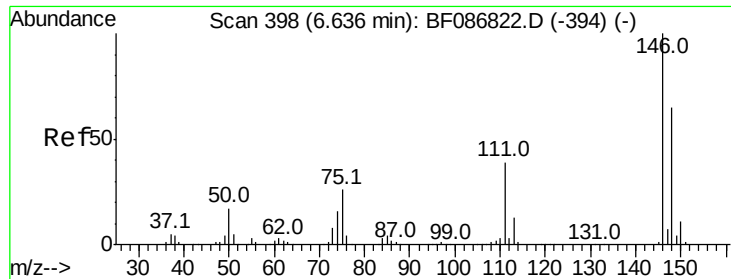
Ion Ratio Lower Upper

93 100

63 85.1 58.0 98.0

95 33.2 11.9 51.9





#12

1,3-Dichlorobenzene

Concen: 40.62 ng

RT: 6.62 min Scan# 397

Delta R.T. -0.01 min

Lab File: BF086857.D

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Instrument :

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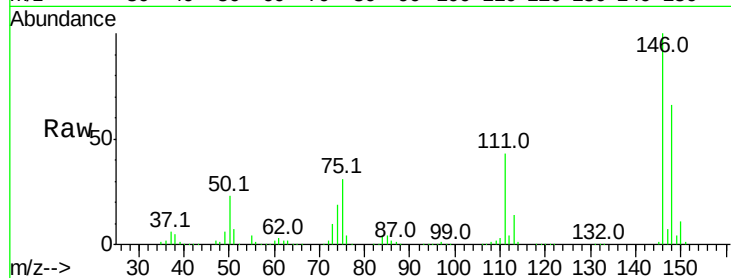
Tot Ion:146 Resp: 558780

Ion Ratio Lower Upper

146 100

148 65.9 52.4 78.6

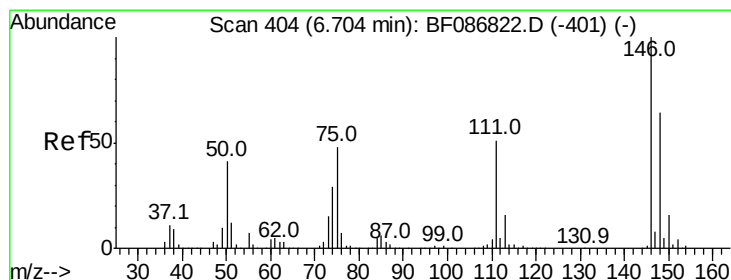
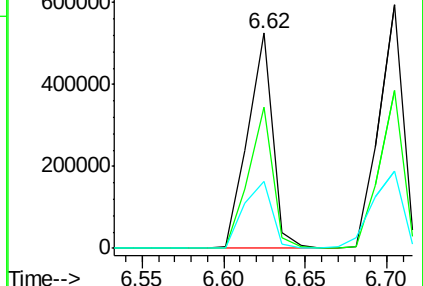
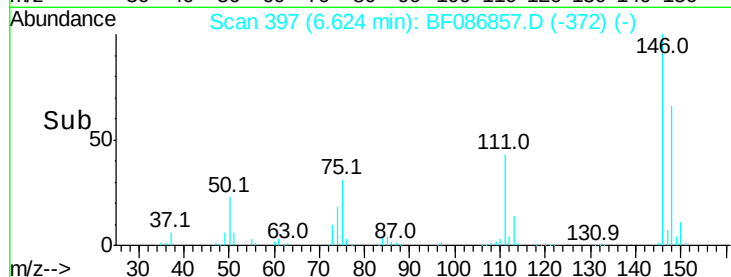
75 31.3 22.8 34.2



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0



#13

1,4-Dichlorobenzene

Concen: 44.61 ng

RT: 6.70 min Scan# 404

Delta R.T. -0.00 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

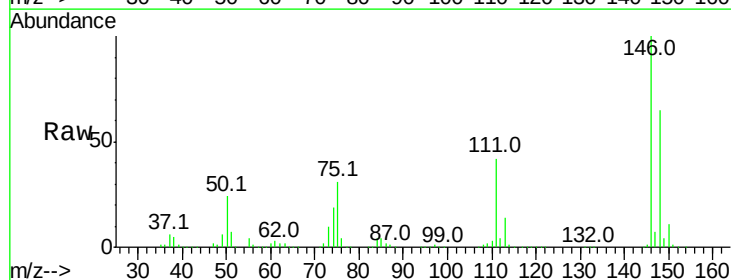
Tgt Ion:146 Resp: 625705

Ion Ratio Lower Upper

146 100

148 65.0 52.2 78.4

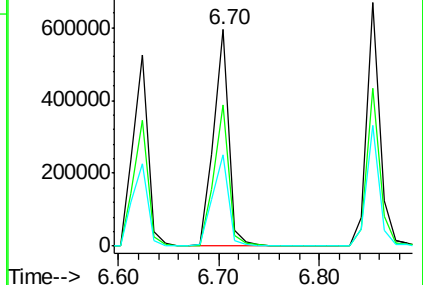
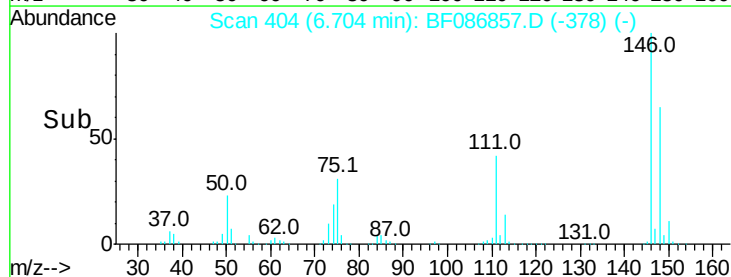
111 42.4 30.7 46.1

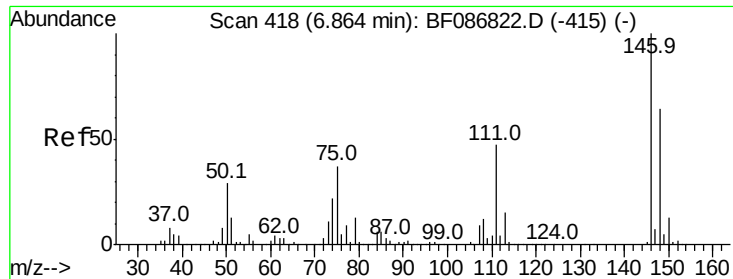


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E

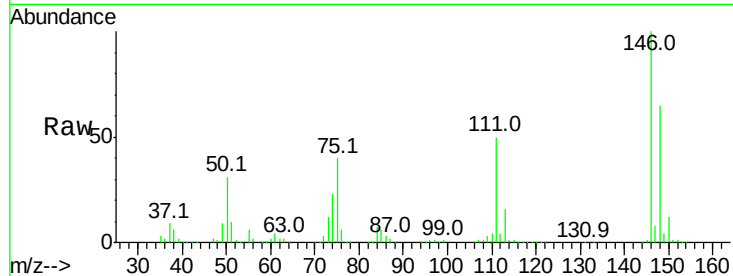




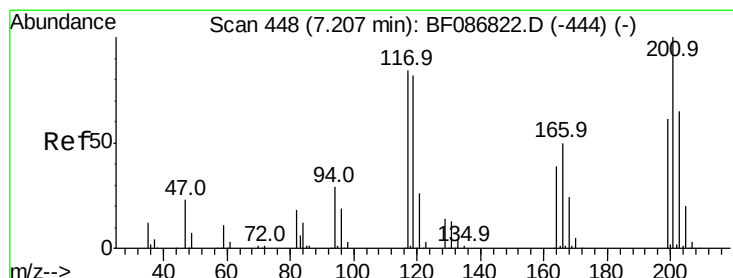
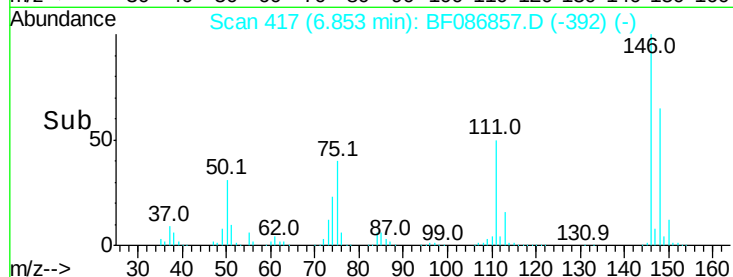
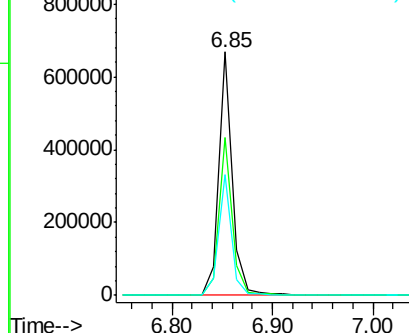
#14  
 1,2-Dichlorobenzene  
 Concen: 50.40 ng  
 RT: 6.85 min Scan# 417  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

Instrument :  
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 ClientSampleId :  
 PT-BNA-SOILDL

Tot Ion:146 Resp: 616208  
 Ion Ratio Lower Upper  
 146 100  
 148 65.1 51.0 76.6  
 111 49.8 36.2 54.4

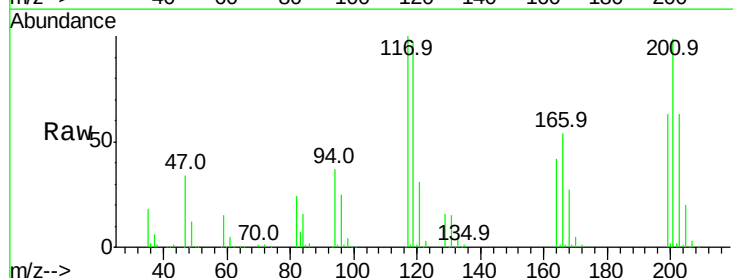


Abundance Ion 146.00 (145.70 to 146.70): E  
 Ion 148.00 (147.70 to 148.70): E  
 Ion 111.00 (110.70 to 111.70): E

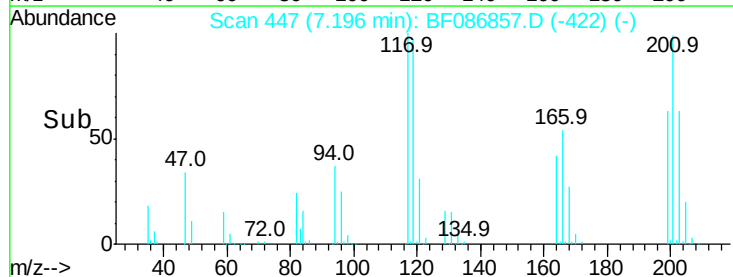
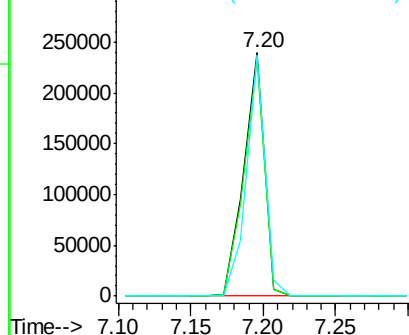


#18  
 Hexachloroethane  
 Concen: 44.69 ng  
 RT: 7.20 min Scan# 447  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

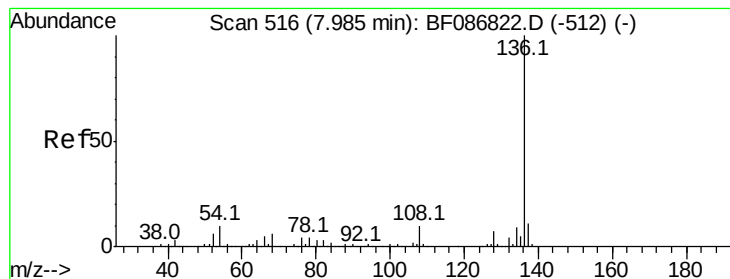
Tgt Ion:117 Resp: 235881  
 Ion Ratio Lower Upper  
 117 100  
 119 96.7 76.5 114.7  
 201 99.1 63.0 94.6#



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: 20.00 ng

RT: 7.97 min Scan# 515

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILDL

Tot Ion:136 Resp: 769787

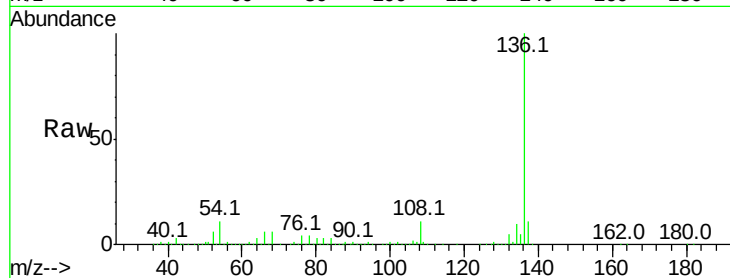
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 10.8 5.0 7.4#

68 6.2 4.4 6.6

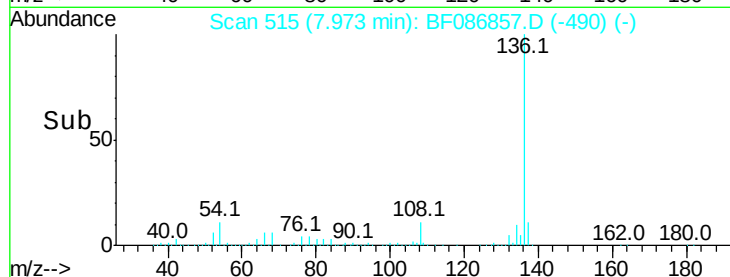


Abundance Ion 136.00 (135.70 to 136.70): E

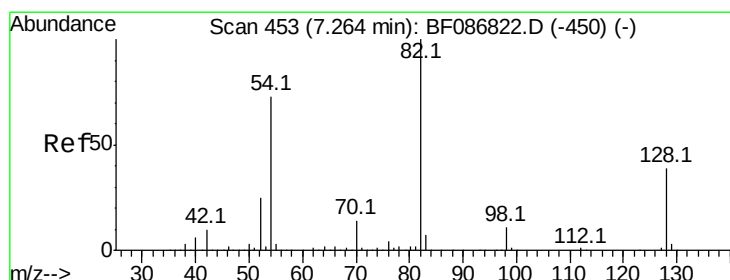
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 15.18 ng

RT: 7.25 min Scan# 452

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

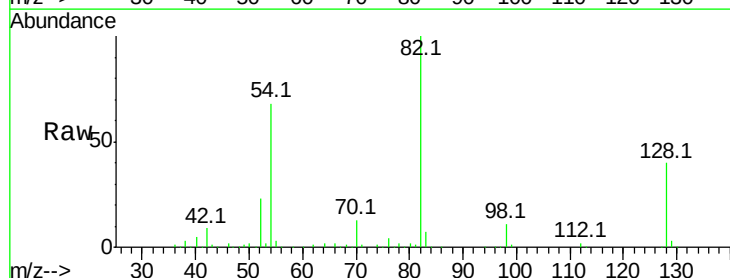
Tgt Ion: 82 Resp: 232734

Ion Ratio Lower Upper

82 100

128 40.3 40.6 61.0#

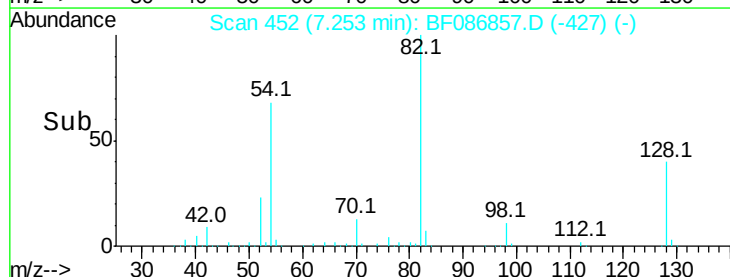
54 68.3 38.1 57.1#



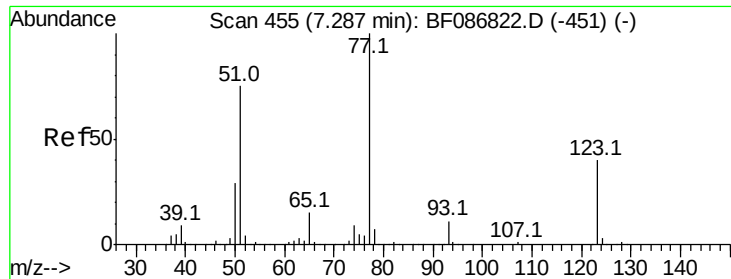
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



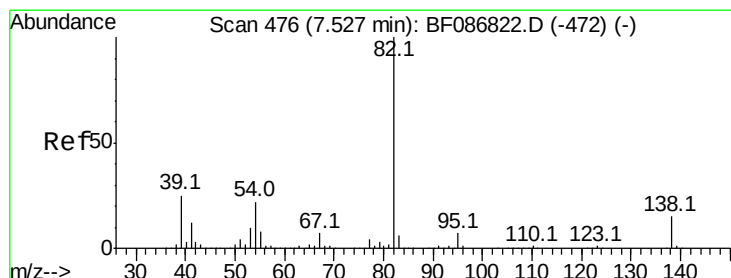
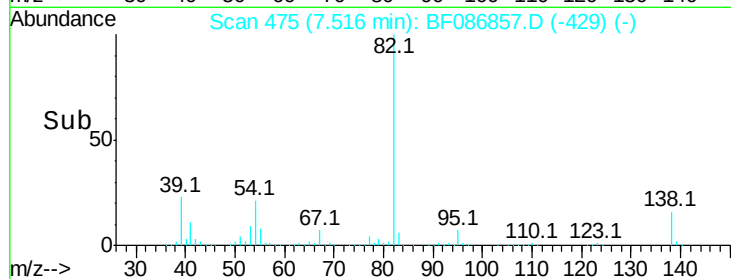
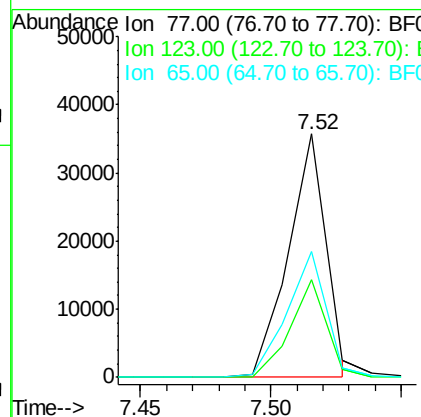
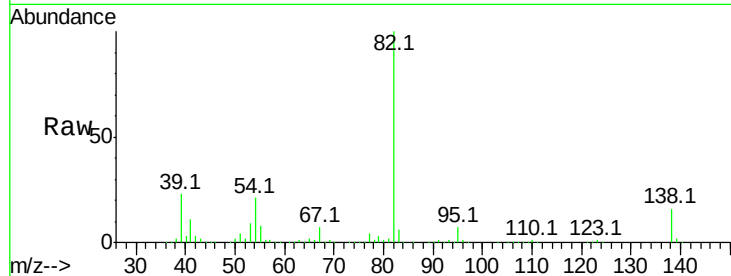
Time-->



#24  
 Nitrobenzene  
 Concen: 2.27 ng  
 RT: 7.52 min Scan# 475  
 Delta R.T. 0.23 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

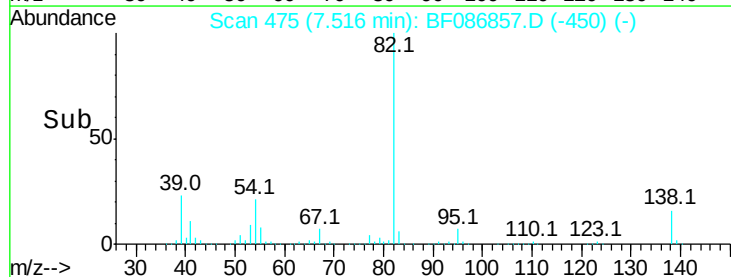
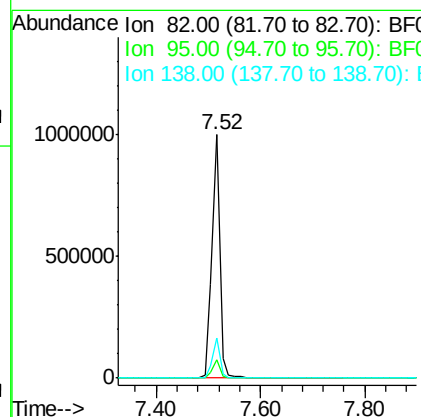
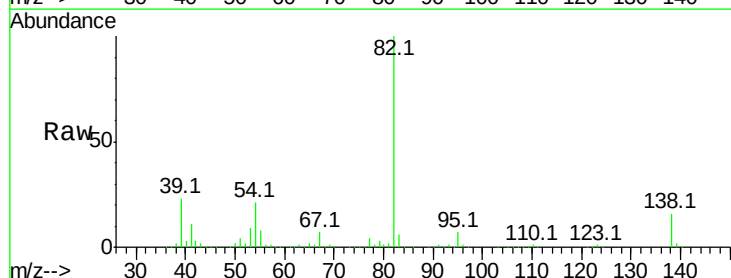
Instrument :  
 BNA\_F  
 ClientSampleID :  
 PT-BNA-SOILD

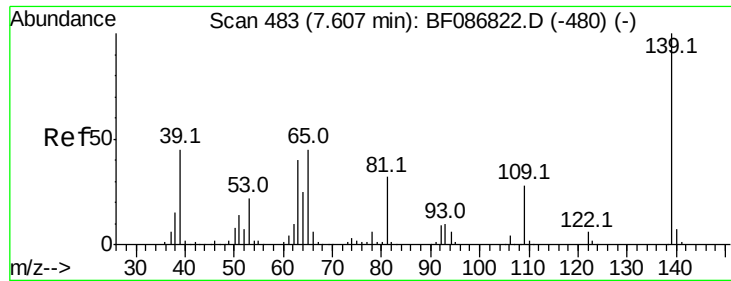
Tot Ion: 77 Resp: 35770  
 Ion Ratio Lower Upper  
 77 100  
 123 39.9 33.0 49.4  
 65 51.7 10.8 16.2#



#25  
 Isophorone  
 Concen: 36.35 ng  
 RT: 7.52 min Scan# 475  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

Tgt Ion: 82 Resp: 1033983  
 Ion Ratio Lower Upper  
 82 100  
 95 7.4 5.1 7.7  
 138 16.3 12.4 18.6

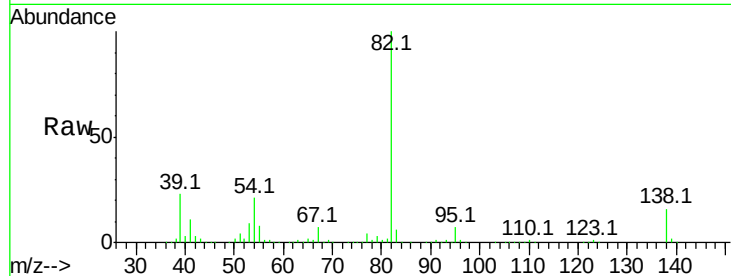




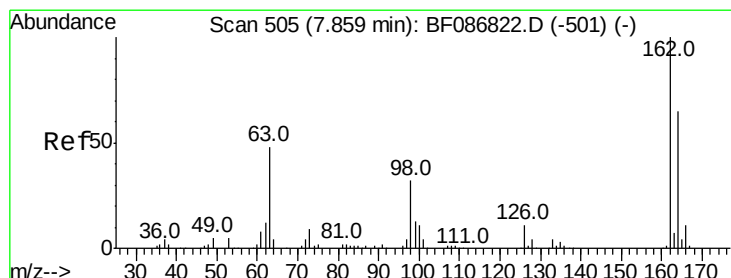
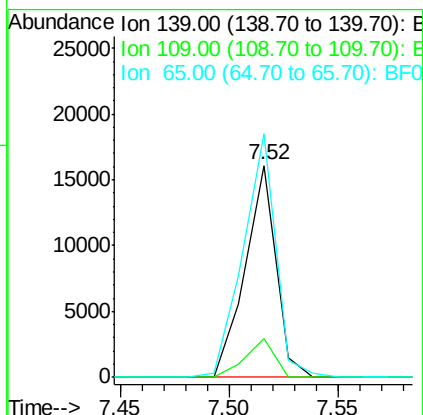
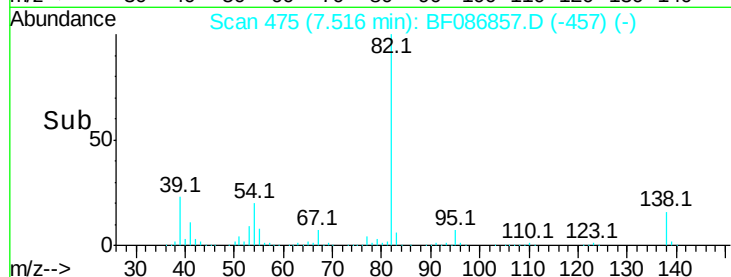
#26  
 2-Nitrophenol  
 Concen: 2.30 ng  
 RT: 7.52 min Scan# 475  
 Delta R.T. -0.09 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

Instrument :  
 BNA\_F  
 ClientSampleID :  
 PT-BNA-SOILD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 18.5  | 19.5  | 29.3# |
| 65      | 114.9 | 37.5  | 56.3# |

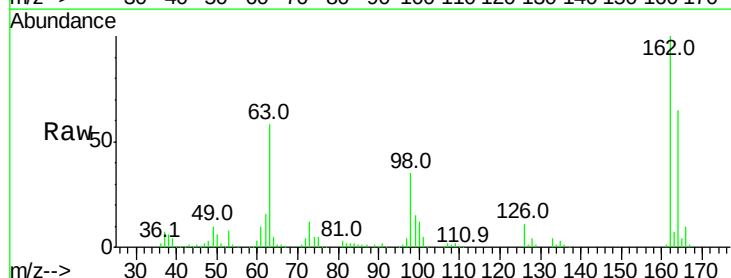


Abundance Ion 139.00 (138.70 to 139.70): E  
 Ion 109.00 (108.70 to 109.70): E  
 Ion 65.00 (64.70 to 65.70): BF0

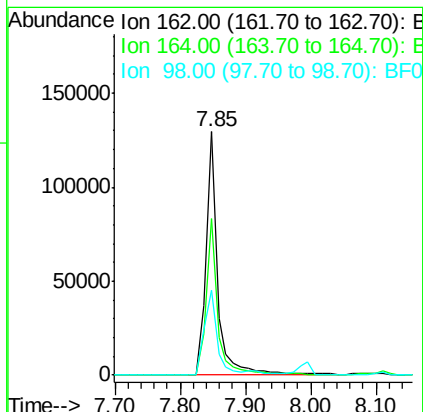
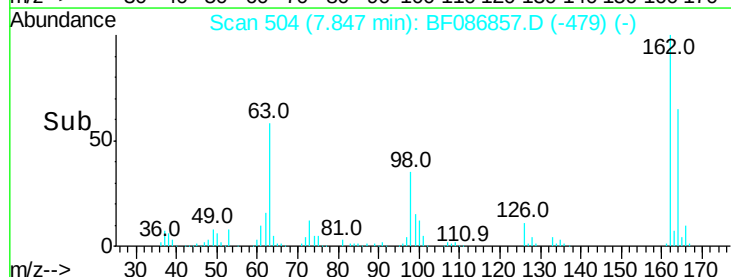


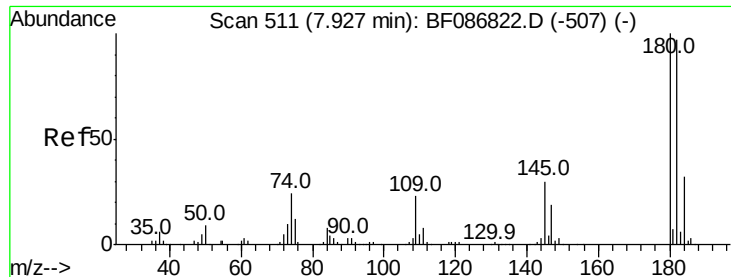
#29  
 2,4-Dichlorophenol  
 Concen: 15.57 ng  
 RT: 7.85 min Scan# 504  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 64.5  | 42.2  | 82.2  |
| 98      | 34.9  | 19.0  | 59.0  |



Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 164.00 (163.70 to 164.70): E  
 Ion 98.00 (97.70 to 98.70): BF0

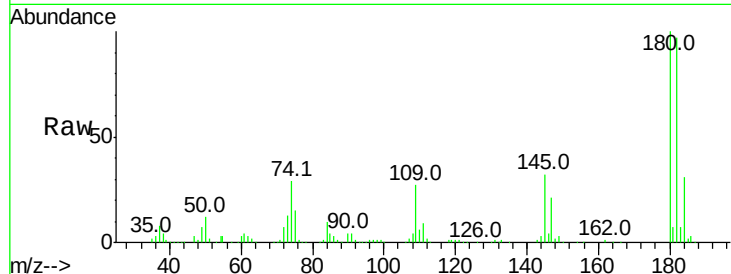




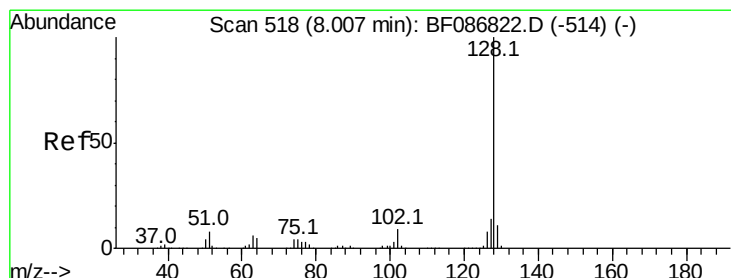
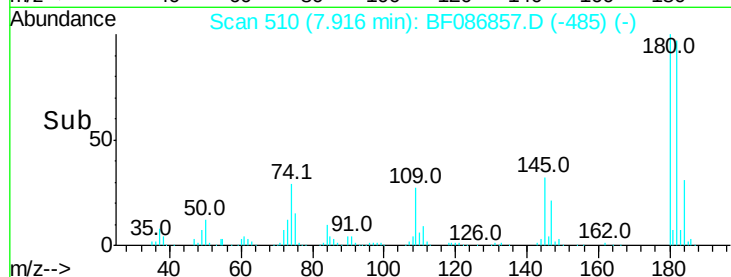
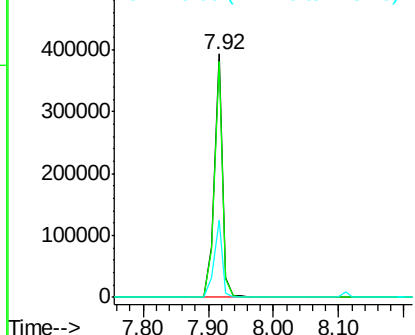
#30  
 1,2,4-Trichlorobenzene  
 Concen: 30.59 ng  
 RT: 7.92 min Scan# 510  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-BNA-SOILD

Tot Ion:180 Resp: 355433  
 Ion Ratio Lower Upper  
 180 100  
 182 96.8 78.0 117.0  
 145 31.7 24.2 36.2

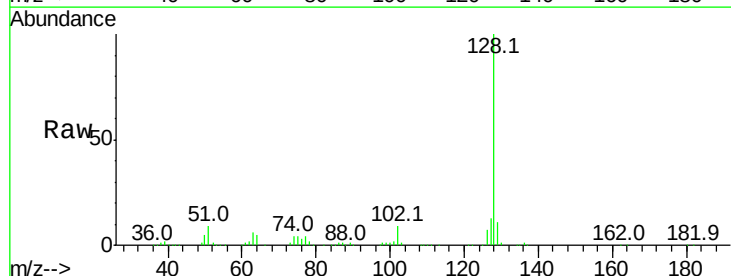


Abundance Ion 180.00 (179.70 to 180.70): E  
 Ion 182.00 (181.70 to 182.70): E  
 Ion 145.00 (144.70 to 145.70): E

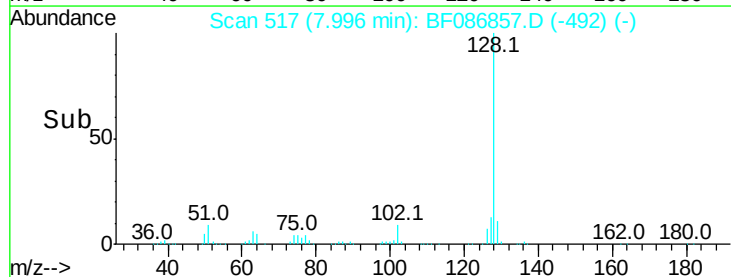
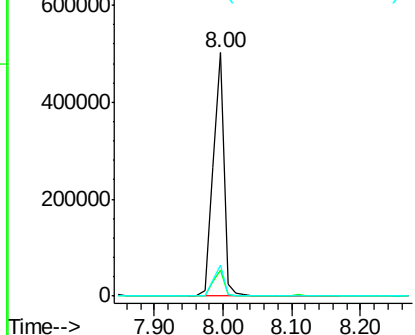


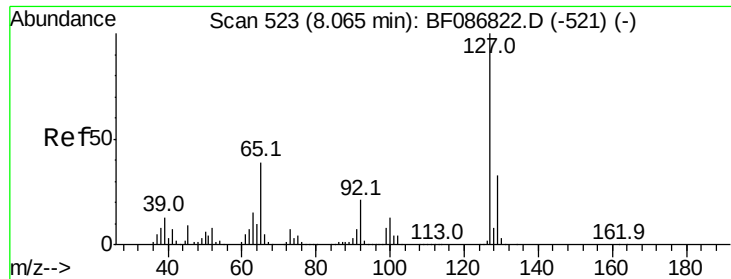
#31  
 Naphthalene  
 Concen: 14.64 ng  
 RT: 8.00 min Scan# 517  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

Tgt Ion:128 Resp: 564302  
 Ion Ratio Lower Upper  
 128 100  
 129 10.7 8.6 13.0  
 127 13.0 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E  
 Ion 129.00 (128.70 to 129.70): E  
 Ion 127.00 (126.70 to 127.70): E

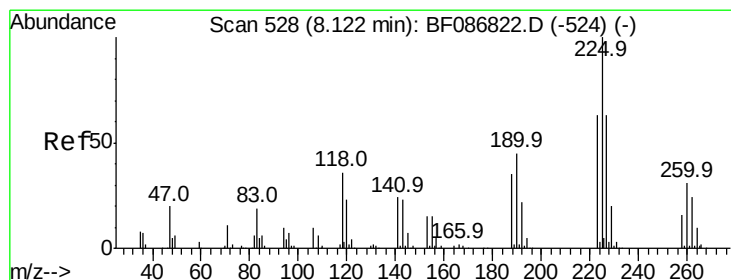
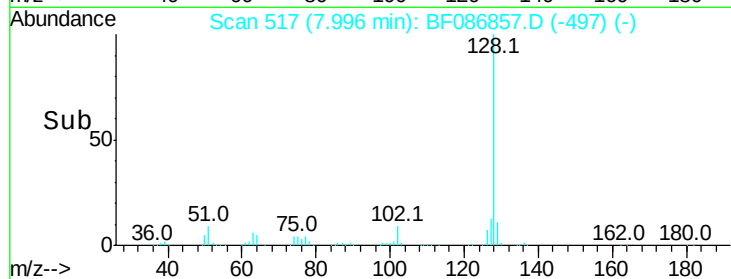
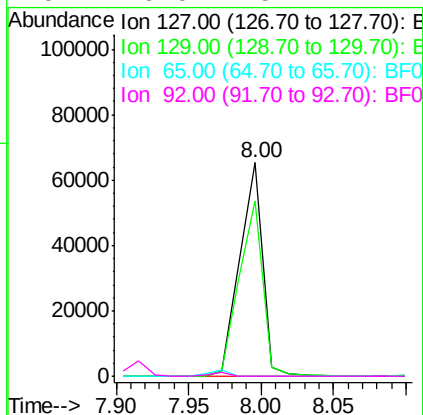
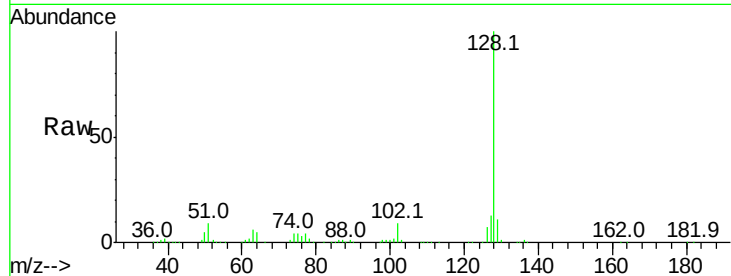




#33  
4-Chloroaniline  
Concen: 4.79 ng  
RT: 8.00 min Scan# 517  
Delta R.T. -0.07 min  
Lab File: BF086857.D  
Acq: 10 May 2016 13:56

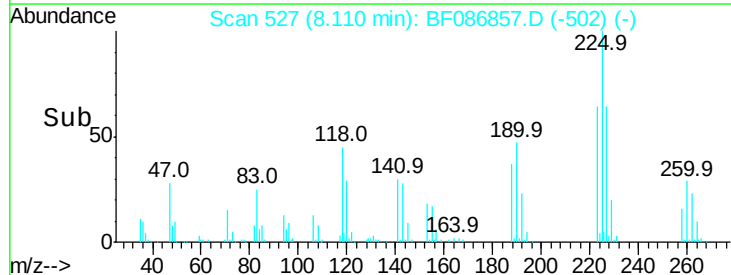
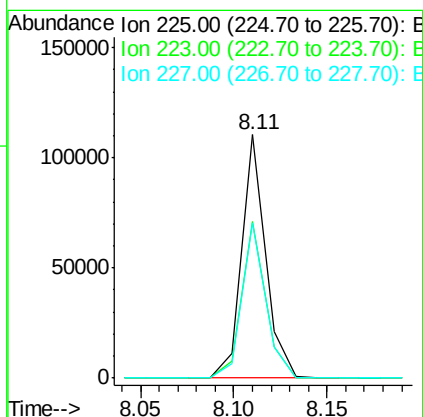
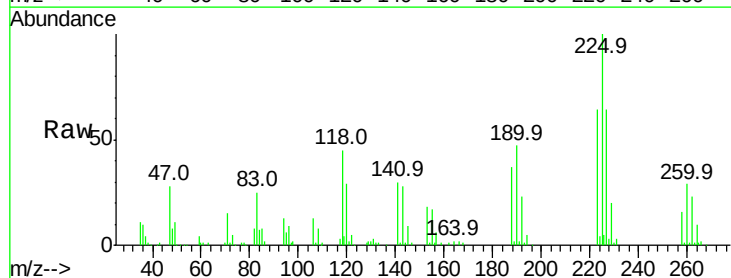
Instrument :  
BNA\_F  
ClientSampleId :  
PT-BNA-SOILD

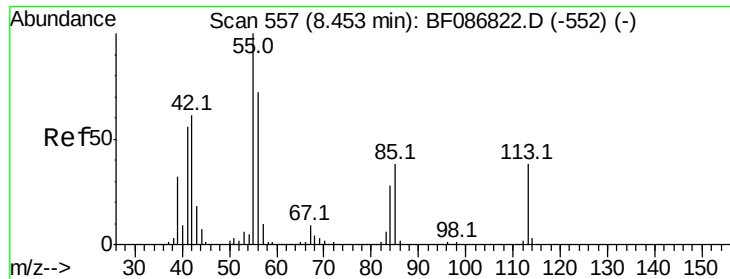
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 127   | Resp: | 71759 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 82.0  | 26.2  | 39.4# |
| 65       | 0.0   | 23.0  | 34.4# |
| 92       | 0.0   | 15.1  | 22.7# |



#34  
Hexachlorobutadiene  
Concen: 14.57 ng  
RT: 8.11 min Scan# 527  
Delta R.T. -0.01 min  
Lab File: BF086857.D  
Acq: 10 May 2016 13:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 98248 |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 64.1  | 51.5  | 77.3  |
| 227      | 63.5  | 52.2  | 78.2  |





#35

Caprolactam

Concen: 3.60 ng

RT: 8.54 min Scan# 565

Delta R.T. 0.09 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILD

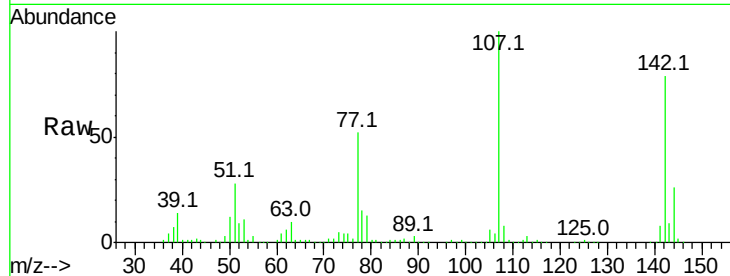
Tot Ion:113 Resp: 12734

Ion Ratio Lower Upper

113 100

55 98.9 162.0 202.0#

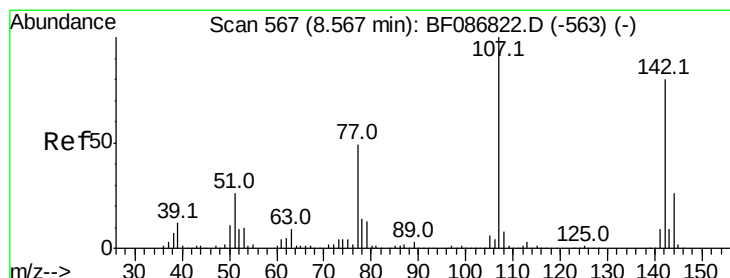
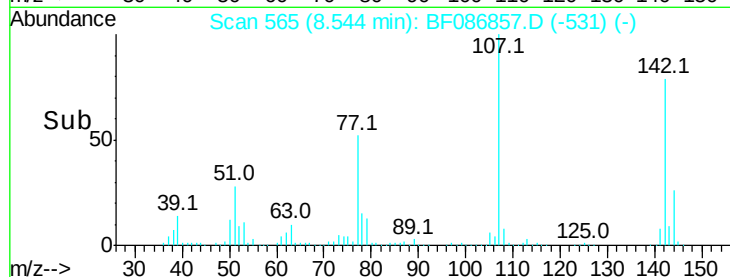
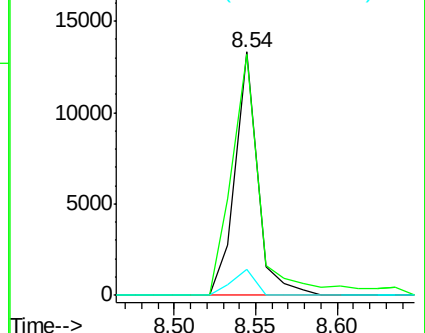
56 10.5 115.3 155.3#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#36

4-Chloro-3-methylphenol

Concen: 36.11 ng

RT: 8.54 min Scan# 565

Delta R.T. -0.02 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

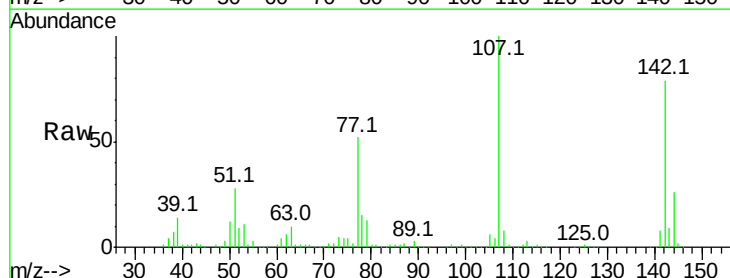
Tgt Ion:107 Resp: 455157

Ion Ratio Lower Upper

107 100

144 25.9 20.7 31.1

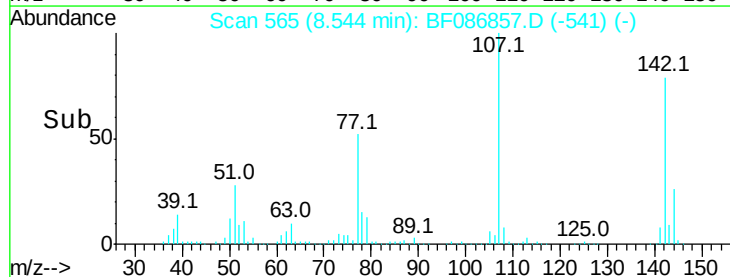
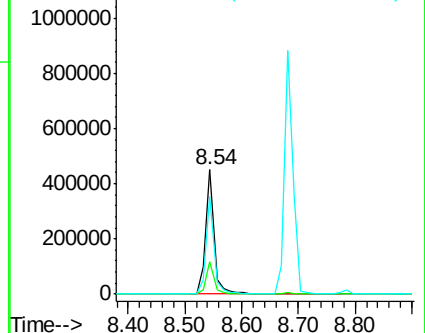
142 78.8 63.2 94.8

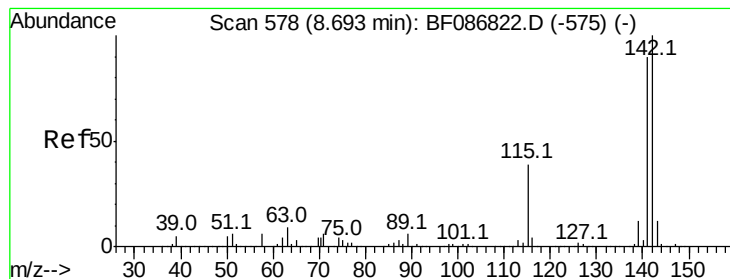


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





#37

2-Methylnaphthalene

Concen: 41.47 ng

RT: 8.68 min Scan# 577

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILD

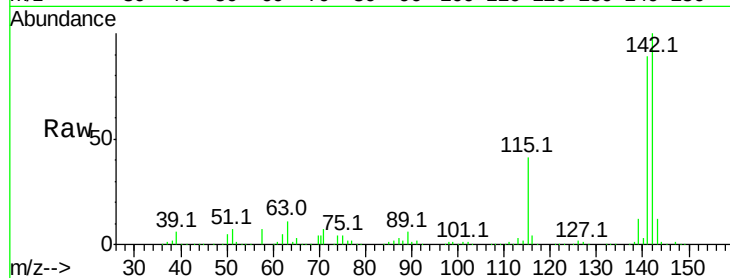
Tot Ion:142 Resp: 934668

Ion Ratio Lower Upper

142 100

141 88.9 71.0 106.6

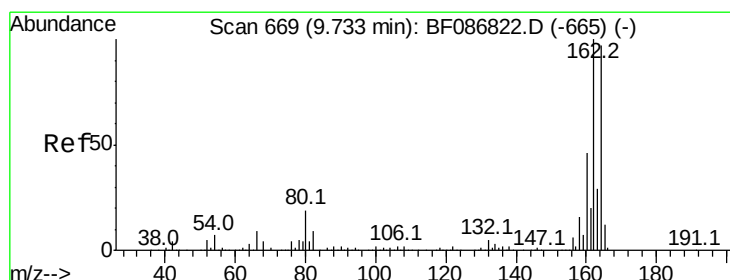
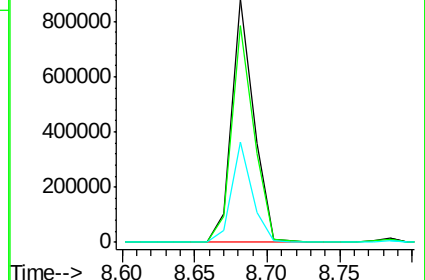
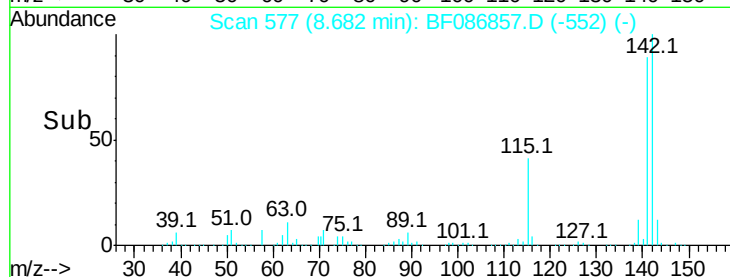
115 41.0 26.6 39.8#



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: 20.00 ng

RT: 9.72 min Scan# 668

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

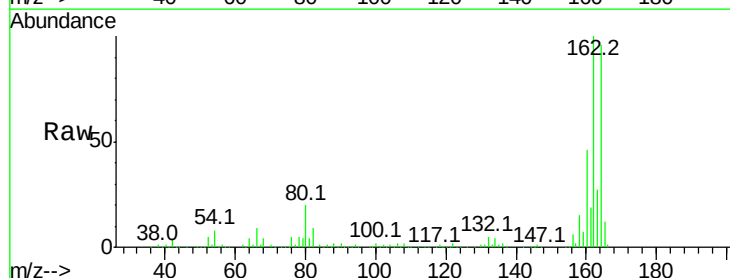
Tgt Ion:164 Resp: 384801

Ion Ratio Lower Upper

164 100

162 103.7 82.8 124.2

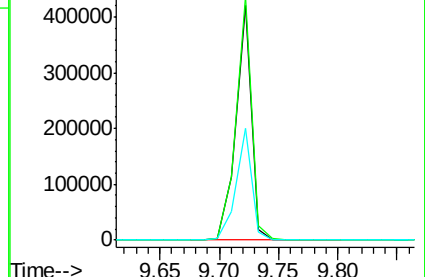
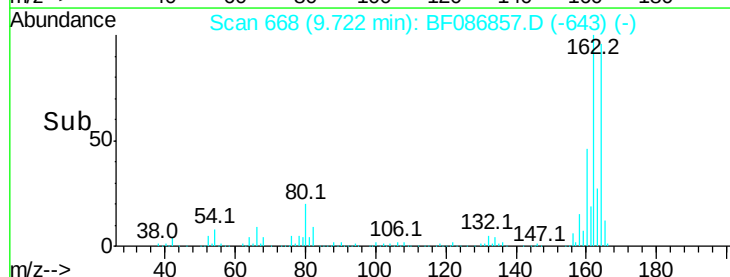
160 47.7 36.9 55.3

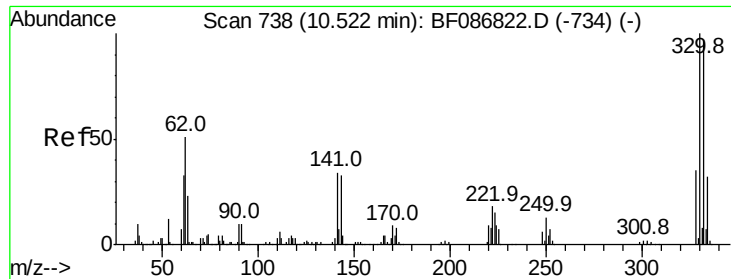


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

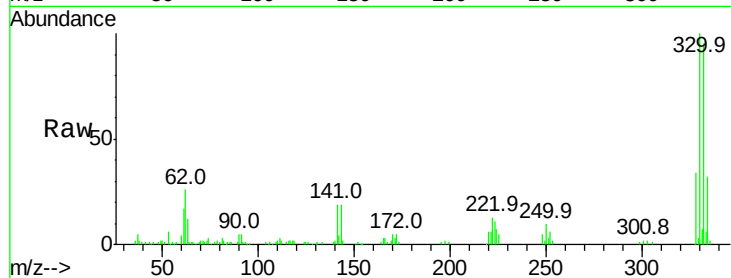




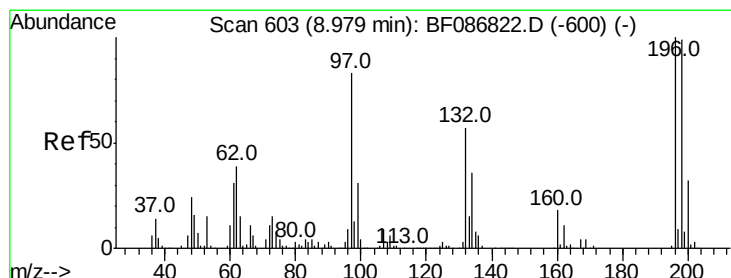
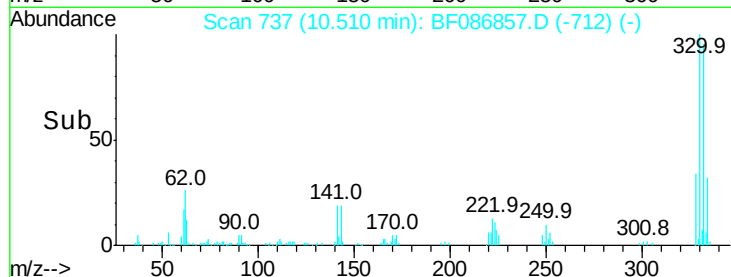
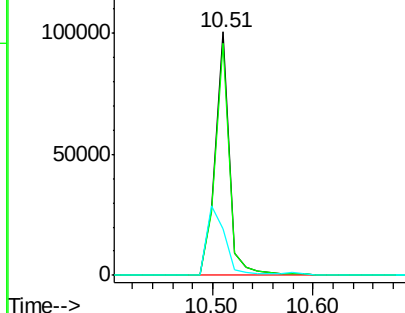
#41  
 2,4,6-Tribromophenol  
 Concen: 24.64 ng  
 RT: 10.51 min Scan# 737  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-BNA-SOILDL

Tot Ion:330 Resp: 100388  
 Ion Ratio Lower Upper  
 330 100  
 332 95.7 79.0 118.4  
 141 36.9 31.2 46.8

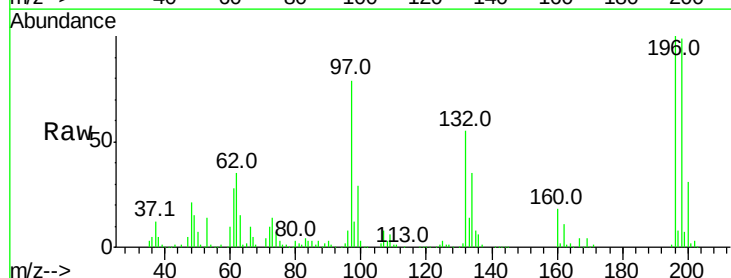


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

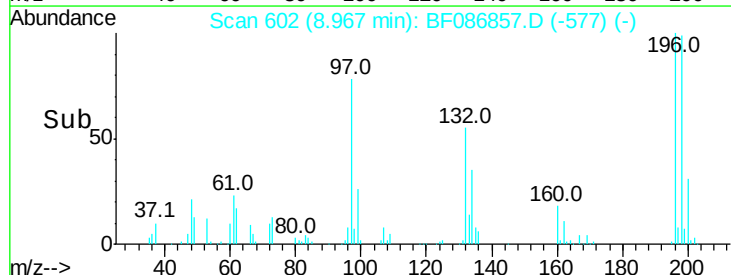
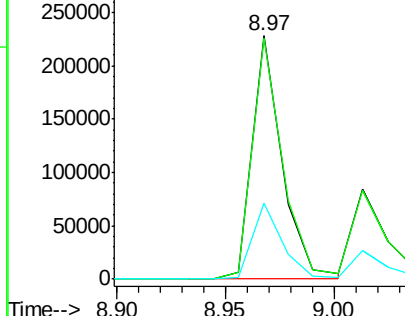


#42  
 2,4,6-Trichlorophenol  
 Concen: 29.20 ng  
 RT: 8.97 min Scan# 602  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

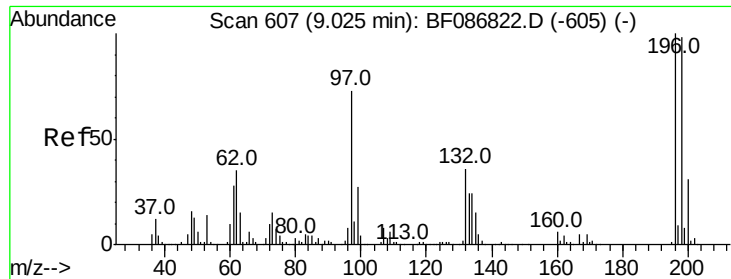
Tgt Ion:196 Resp: 218434  
 Ion Ratio Lower Upper  
 196 100  
 198 99.1 74.7 112.1  
 200 31.3 23.8 35.6



Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 200.00 (199.70 to 200.70): E



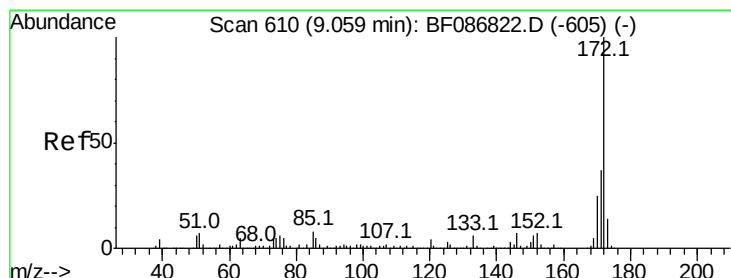
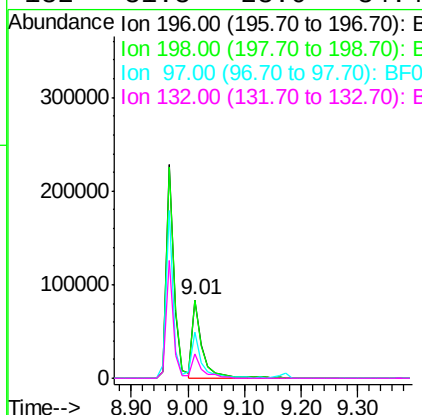
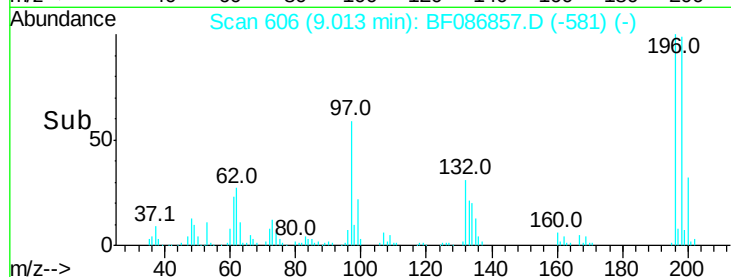
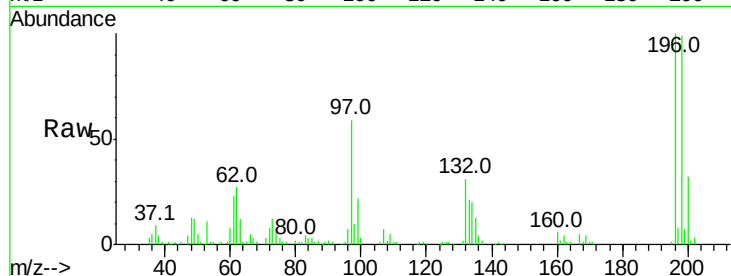




#43  
 2,4,5-Trichlorophenol  
 Concen: 13.85 ng  
 RT: 9.01 min Scan# 606  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

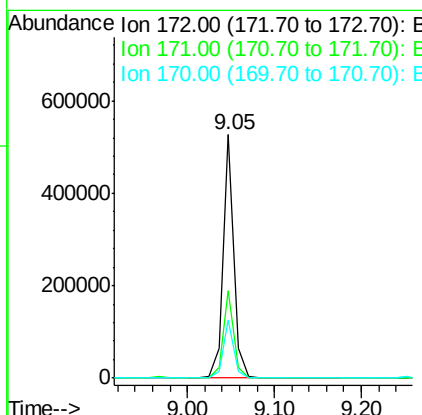
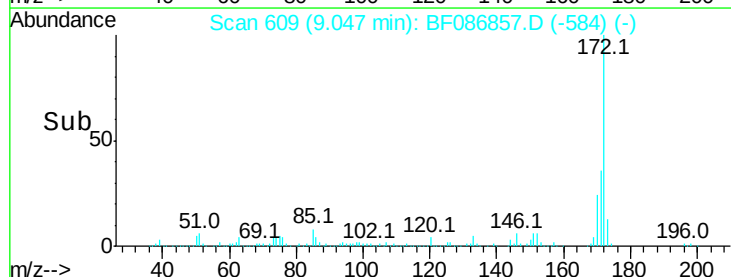
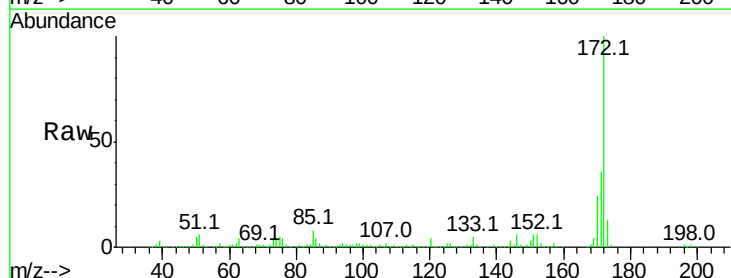
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-BNA-SOILD

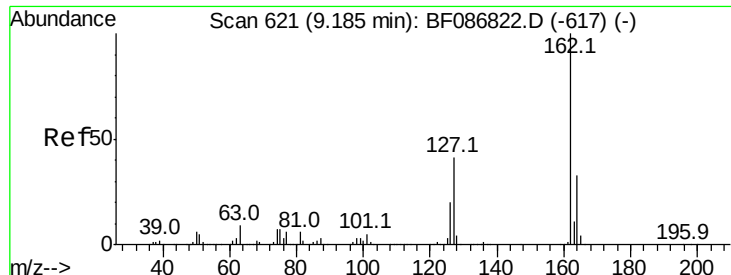
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 99.5  | 77.5  | 116.3 |
| 97      | 58.8  | 34.8  | 52.2  |
| 132     | 31.3  | 23.0  | 34.4  |



#44  
 2-Fluorobiphenyl  
 Concen: 20.03 ng  
 RT: 9.05 min Scan# 609  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.0  | 43.6  |
| 170     | 23.8  | 19.8  | 29.8  |





#46

2-Chloronaphthalene

Concen: 22.59 ng

RT: 9.17 min Scan# 620

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILD

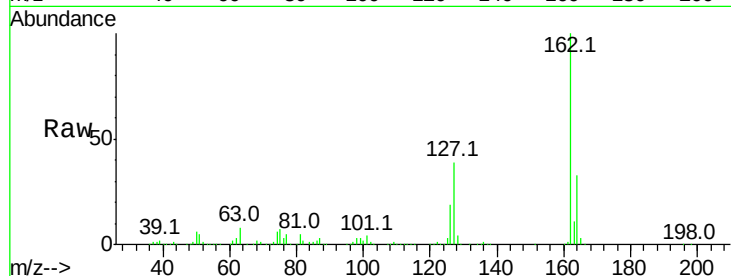
Tot Ion:162 Resp: 541718

Ion Ratio Lower Upper

162 100

127 39.2 31.8 47.6

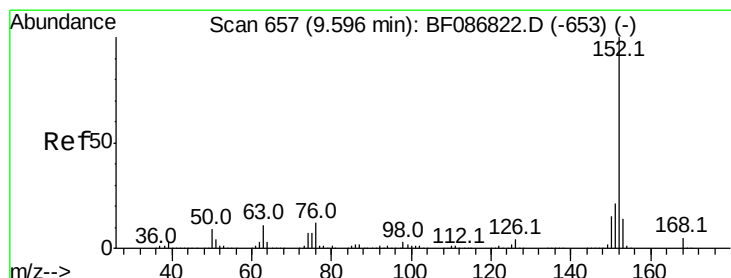
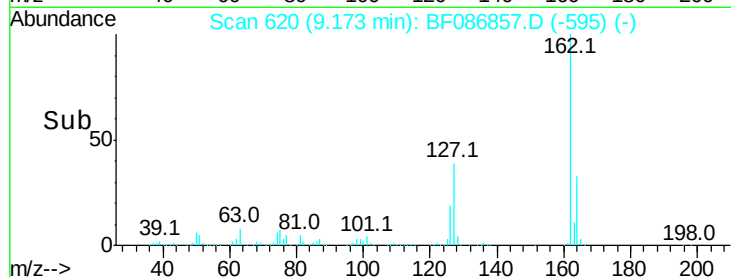
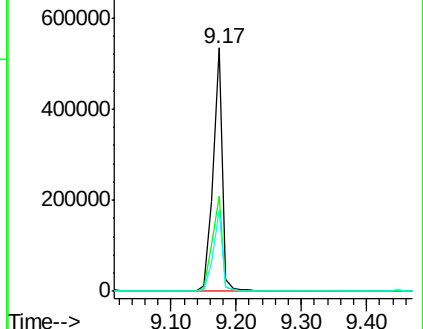
164 33.3 27.0 40.6



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E



#48

Acenaphthylene

Concen: 6.92 ng

RT: 9.76 min Scan# 671

Delta R.T. 0.16 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

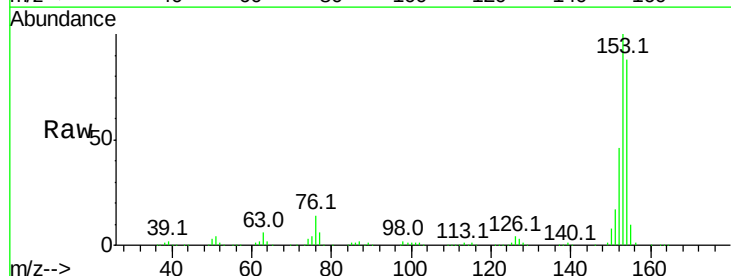
Tgt Ion:152 Resp: 244220

Ion Ratio Lower Upper

152 100

151 37.0 16.8 25.2#

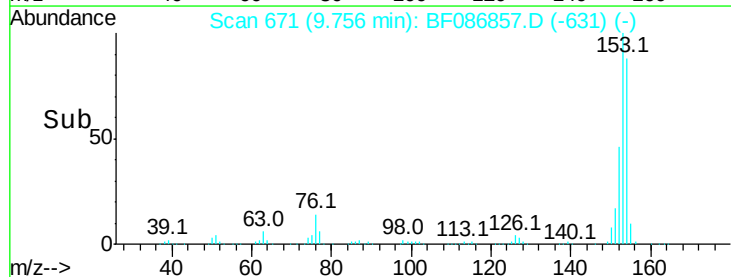
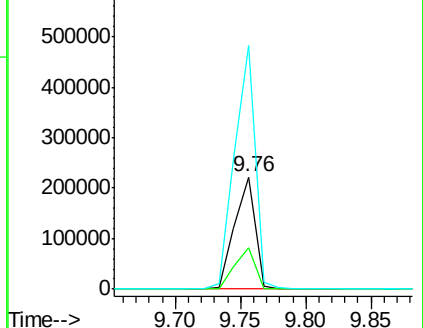
153 216.9 10.9 16.3#

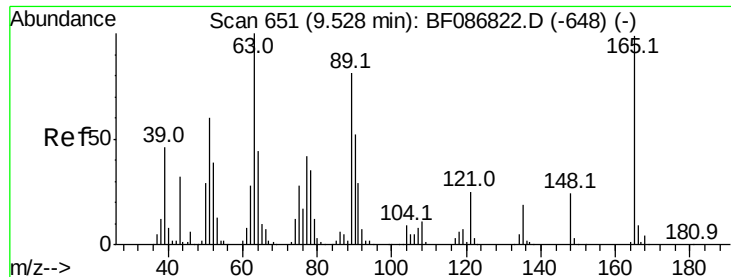


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#50

2,6-Dinitrotoluene

Concen: 7.90 ng

RT: 9.72 min Scan# 668

Delta R.T. 0.19 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILDL

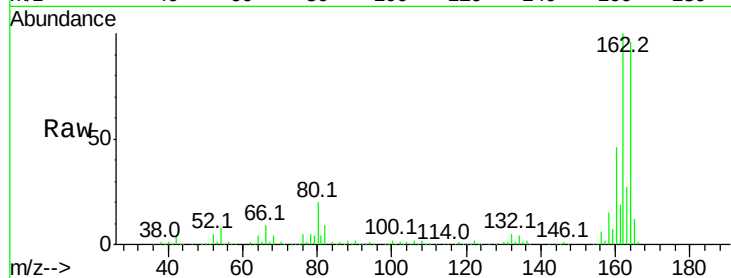
Tot Ion:165 Resp: 48816

Ion Ratio Lower Upper

165 100

63 2.1 51.8 77.8#

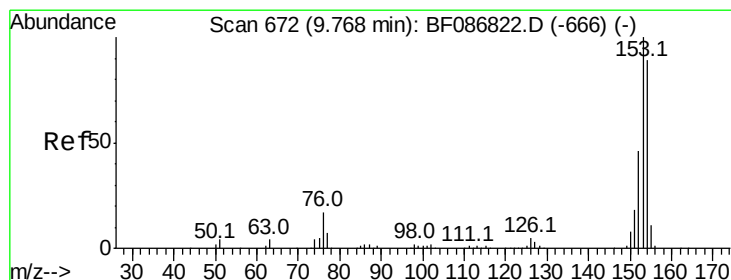
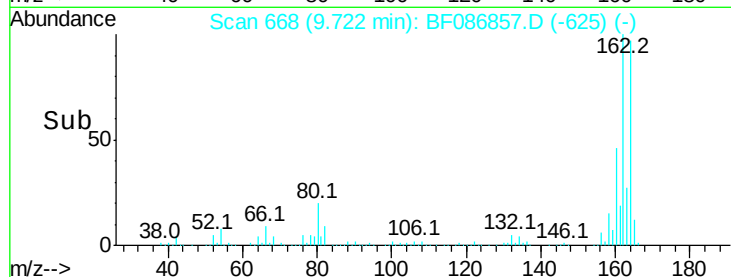
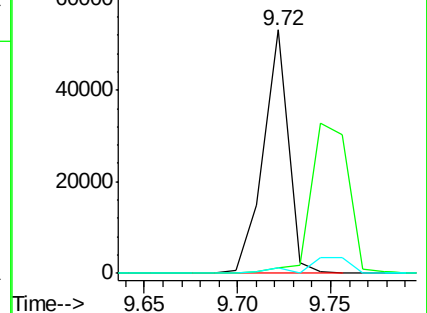
89 2.1 50.7 76.1#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#51

Acenaphthene

Concen: 21.21 ng

RT: 9.76 min Scan# 671

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

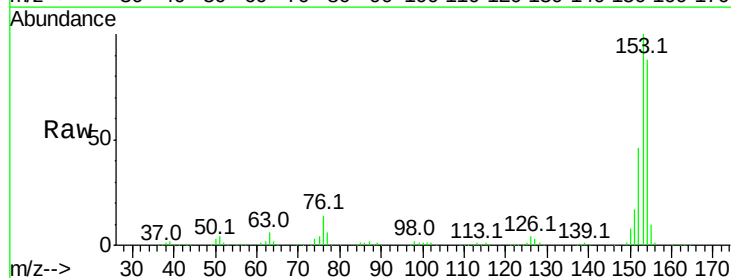
Tgt Ion:154 Resp: 465299

Ion Ratio Lower Upper

154 100

153 114.2 89.8 134.6

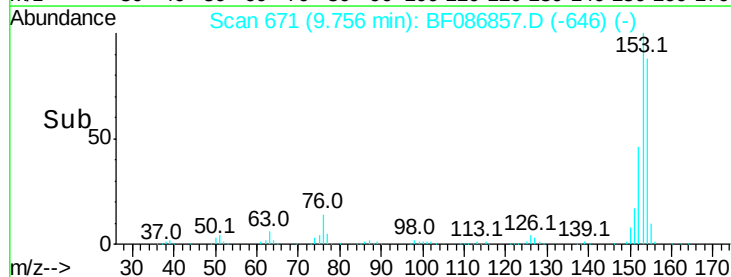
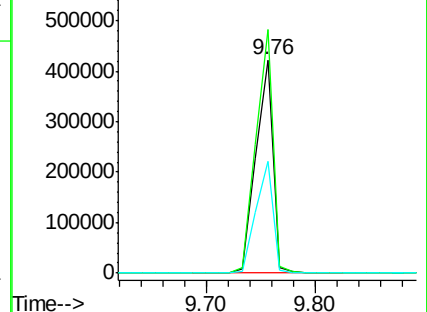
152 52.7 43.4 65.0

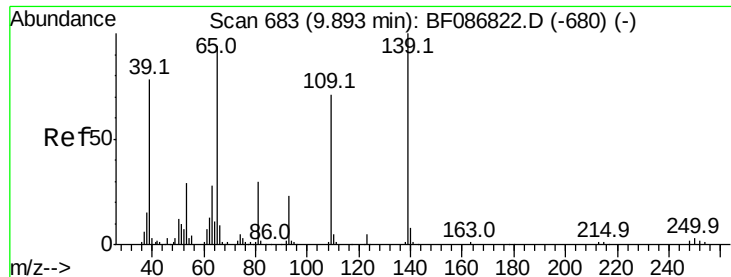


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#55

4-Nitrophenol

Concen: 35.92 ng

RT: 9.87 min Scan# 681

Delta R.T. -0.02 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILDL

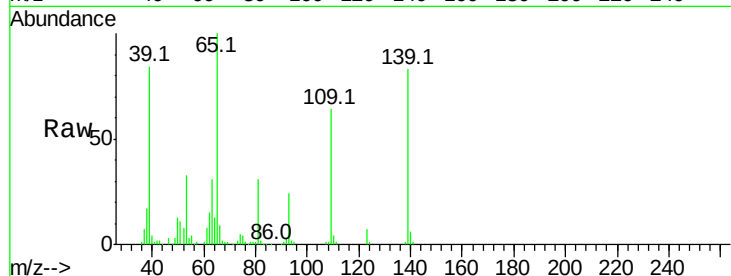
Tot Ion:139 Resp: 144229

Ion Ratio Lower Upper

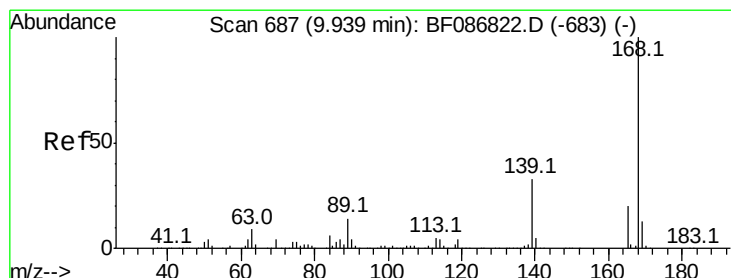
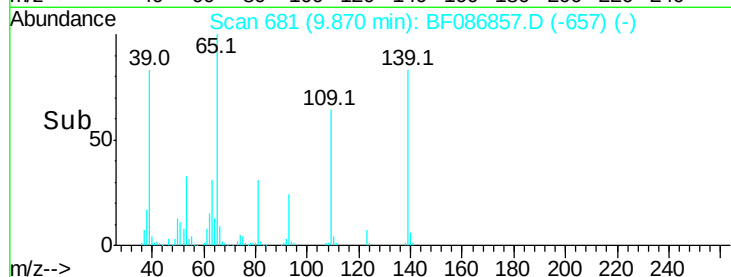
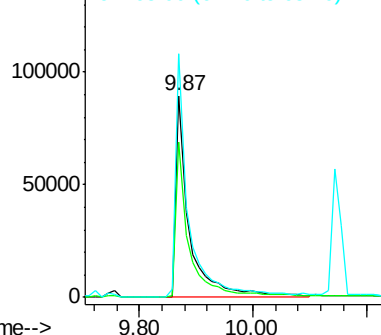
139 100

109 76.9 36.9 76.9

65 120.8 64.0 104.0#



Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BFO



#56

2,4-Dinitrotoluene

Concen: 6.38 ng

RT: 9.72 min Scan# 668

Delta R.T. -0.22 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Tgt Ion:165 Resp: 48808

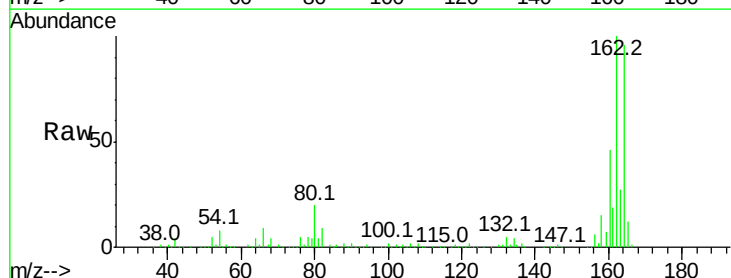
Ion Ratio Lower Upper

165 100

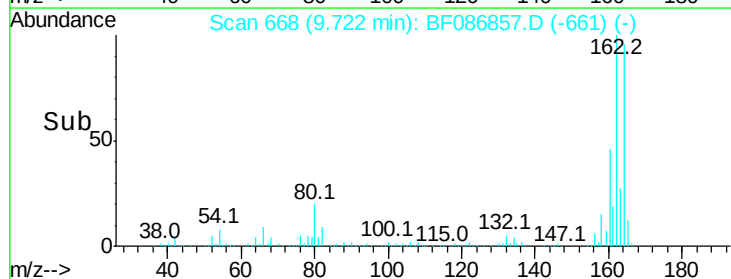
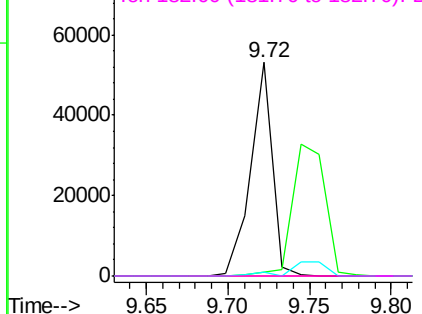
63 2.1 44.3 66.5#

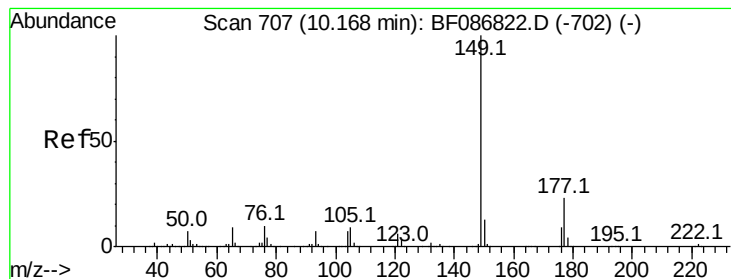
89 2.1 70.0 105.0#

182 0.0 1.8 2.6#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BFO  
Ion 89.00 (88.70 to 89.70): BFO  
Ion 182.00 (181.70 to 182.70): E





#59

Diethylphthalate

Concen: 19.46 ng

RT: 10.16 min Scan# 706

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILD

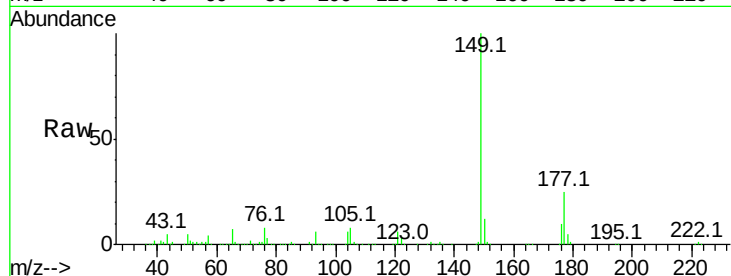
Tot Ion:149 Resp: 556774

Ion Ratio Lower Upper

149 100

177 24.7 16.6 24.8

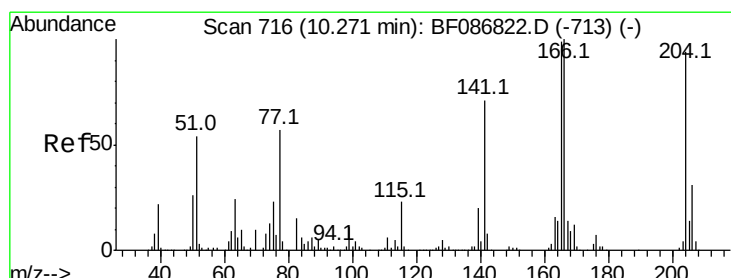
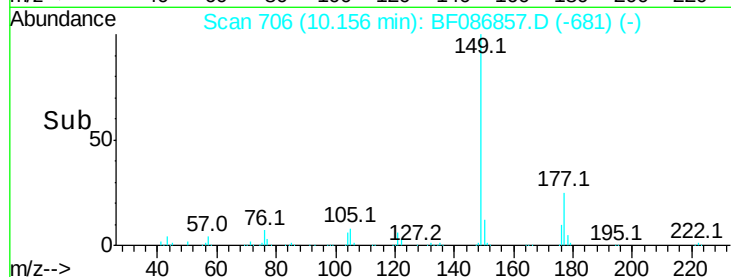
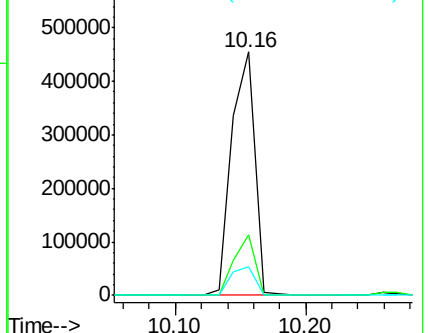
150 11.8 10.0 15.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E



#60

4-Chlorophenyl-phenylether

Concen: 39.05 ng

RT: 10.26 min Scan# 715

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

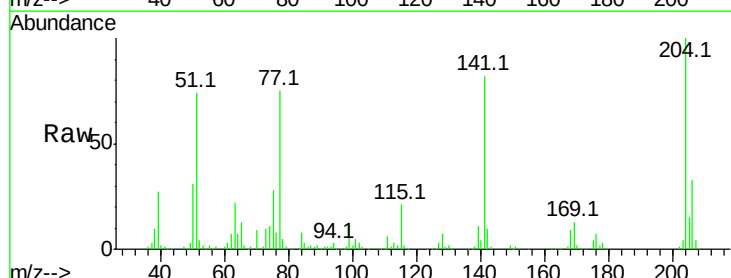
Tgt Ion:204 Resp: 421873

Ion Ratio Lower Upper

204 100

206 32.6 25.4 38.0

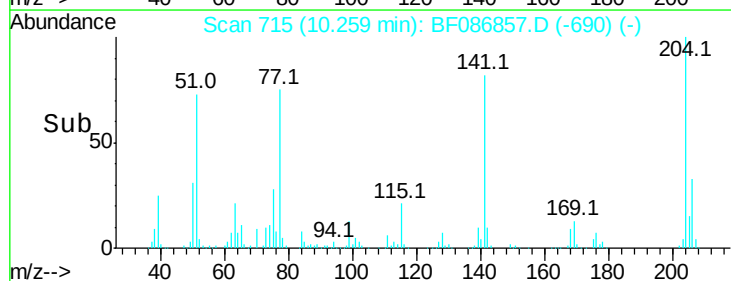
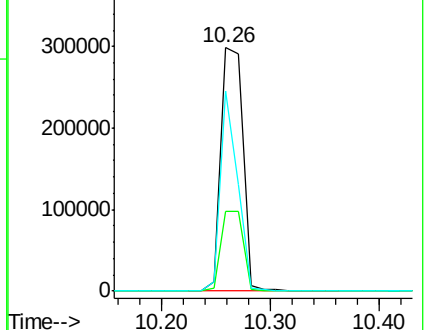
141 82.2 61.6 92.4

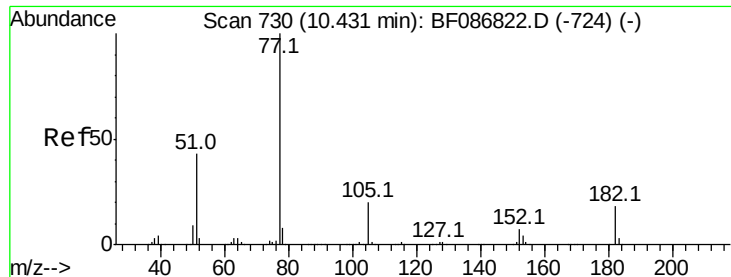


Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E





#62

Azobenzene

Concen: 6.91 ng

RT: 10.26 min Scan# 715

Delta R.T. -0.17 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

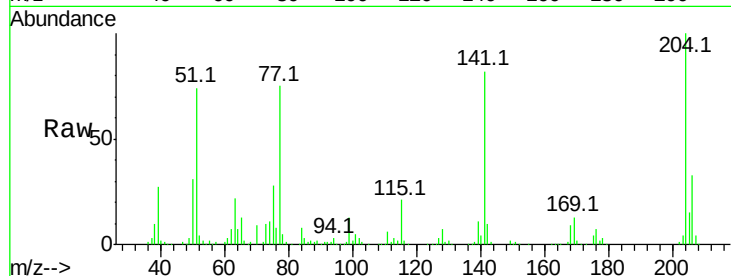
ClientSampleId :

PT-BNA-SOILD

Tot Ion: 77 Resp: 213162

Ion Ratio Lower Upper

|     |      |     |       |
|-----|------|-----|-------|
| 77  | 100  |     |       |
| 182 | 0.0  | 0.0 | 38.8  |
| 105 | 0.2  | 3.2 | 43.2# |
| 51  | 98.0 | 8.8 | 48.8# |

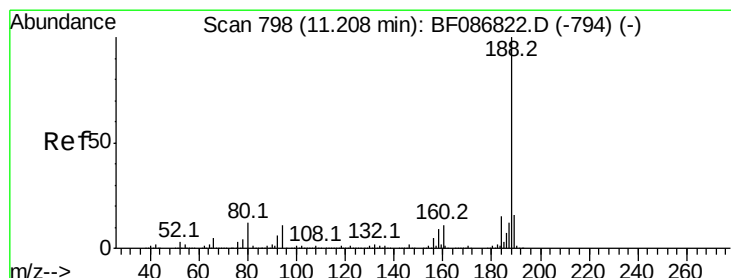
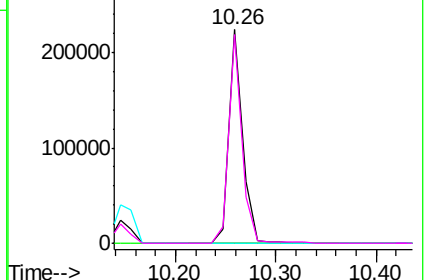
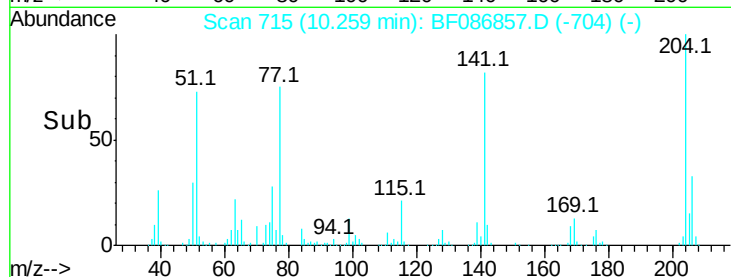


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.20 min Scan# 797

Delta R.T. -0.01 min

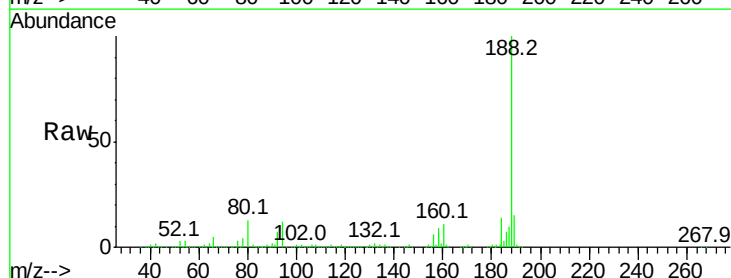
Lab File: BF086857.D

Acq: 10 May 2016 13:56

Tgt Ion: 188 Resp: 689324

Ion Ratio Lower Upper

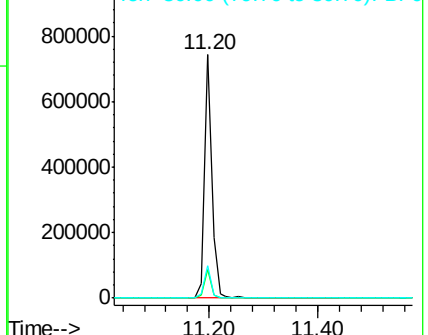
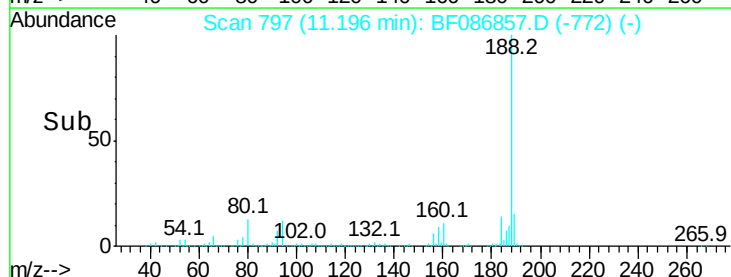
|     |      |     |       |
|-----|------|-----|-------|
| 188 | 100  |     |       |
| 94  | 11.8 | 6.8 | 10.2# |
| 80  | 13.4 | 7.1 | 10.7# |

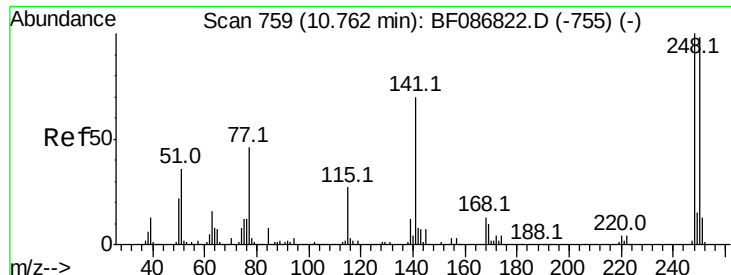


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

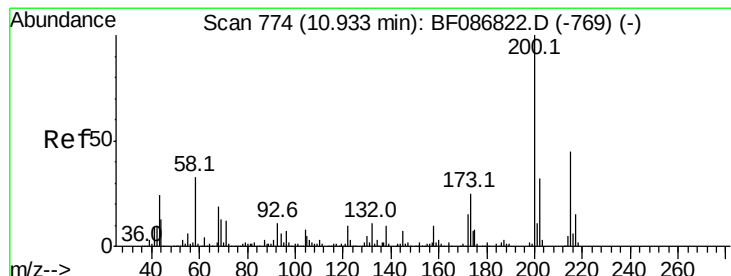
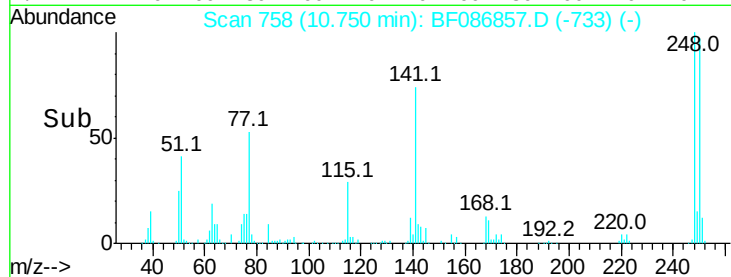
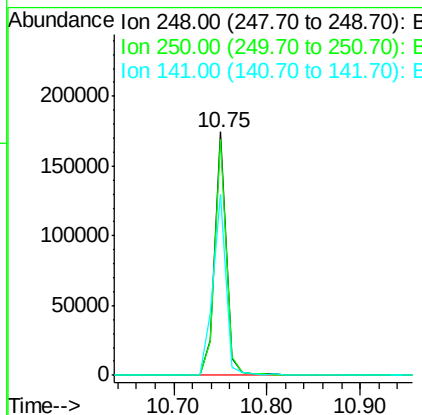
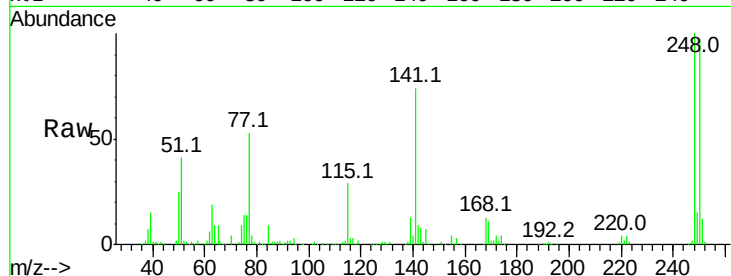




#66  
 4-Bromophenyl-phenylether  
 Concen: 21.43 ng  
 RT: 10.75 min Scan# 758  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

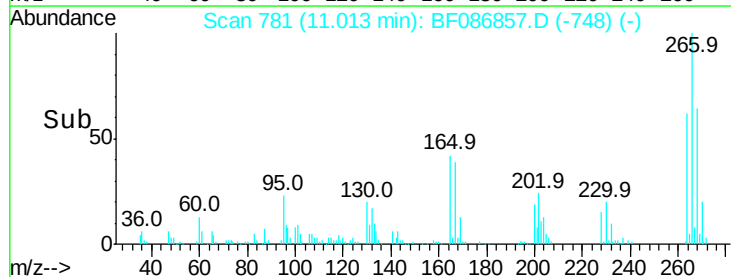
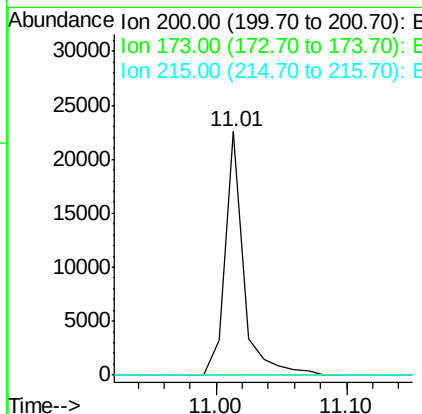
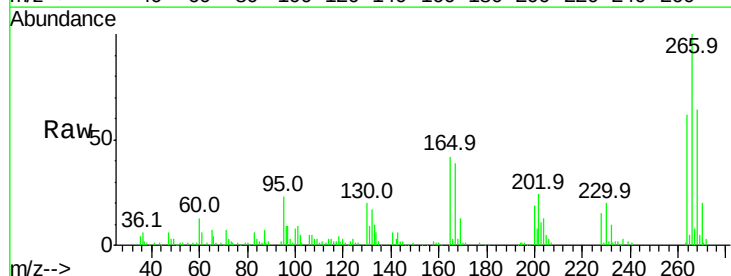
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-BNA-SOILD

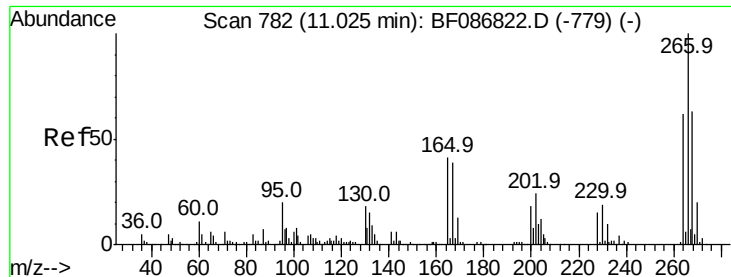
Tot Ion:248 Resp: 149740  
 Ion Ratio Lower Upper  
 248 100  
 250 97.1 78.6 117.8  
 141 74.5 76.0 114.0#



#68  
 Atrazine  
 Concen: 3.14 ng  
 RT: 11.01 min Scan# 781  
 Delta R.T. 0.08 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

Tgt Ion:200 Resp: 22188  
 Ion Ratio Lower Upper  
 200 100  
 173 0.0 8.5 48.5#  
 215 0.0 27.2 67.2#

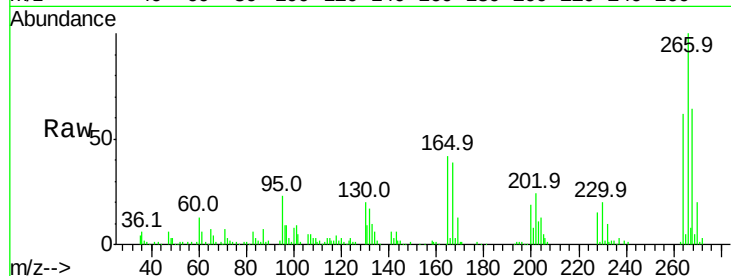




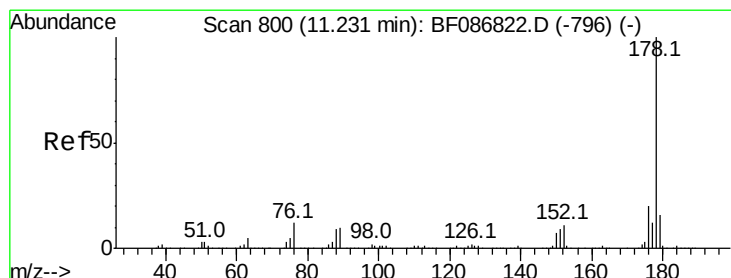
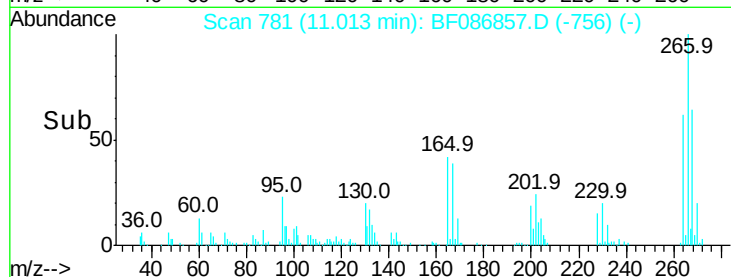
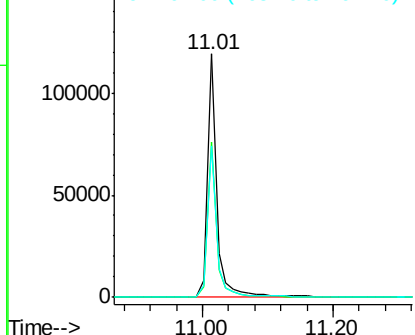
#69  
 Pentachlorophenol  
 Concen: 31.58 ng  
 RT: 11.01 min Scan# 781  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-BNA-SOILDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 63.7  | 51.5  | 77.3  |
| 264     | 62.4  | 52.9  | 79.3  |

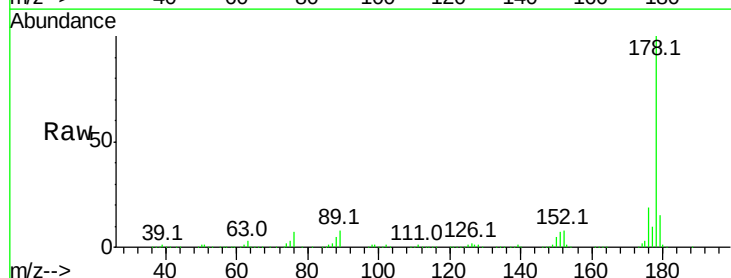


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

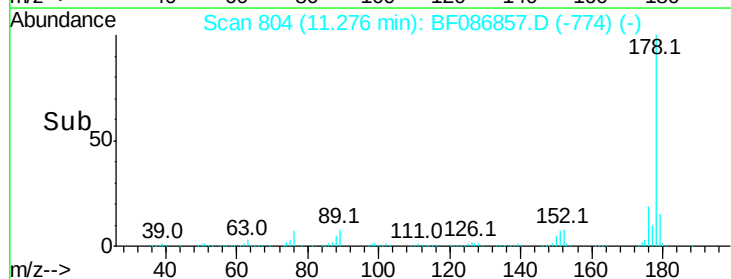
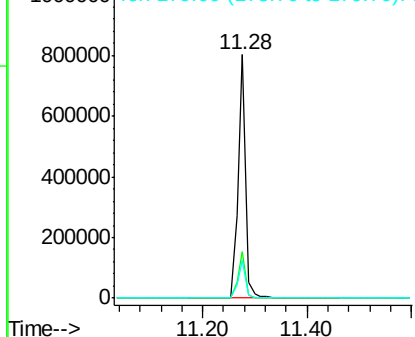


#70  
 Phenanthrene  
 Concen: 21.82 ng  
 RT: 11.28 min Scan# 804  
 Delta R.T. 0.05 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

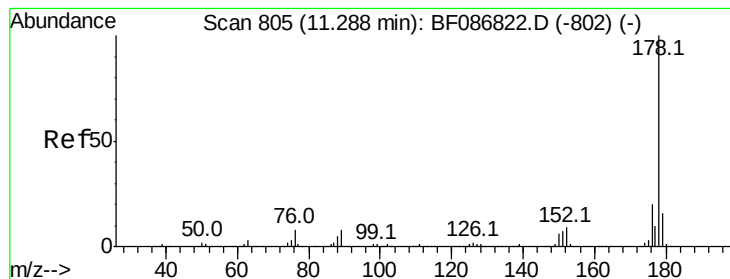
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 16.0  | 24.0  |
| 179     | 15.5  | 12.6  | 18.8  |



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







#71

Anthracene

Concen: 21.38 ng

RT: 11.28 min Scan# 804

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILDL

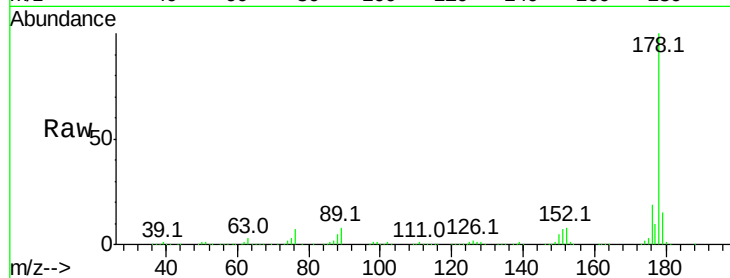
Tot Ion:178 Resp: 804522

Ion Ratio Lower Upper

178 100

176 19.1 15.6 23.4

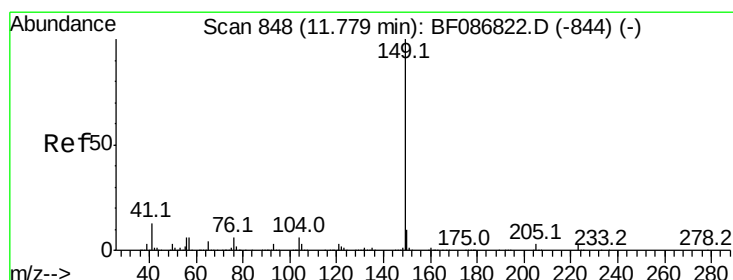
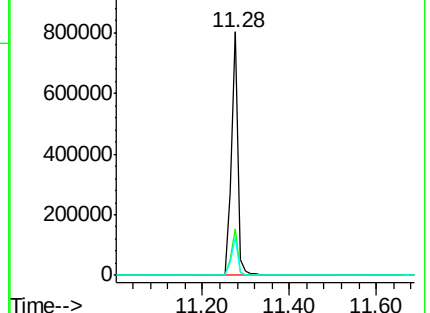
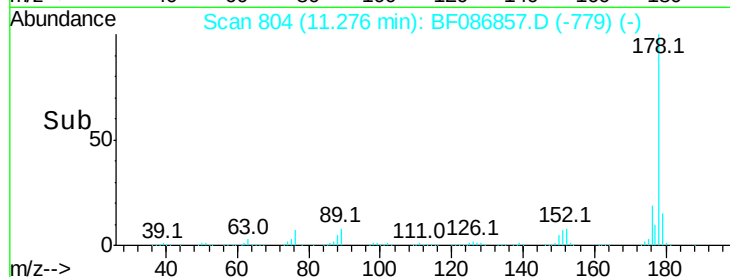
179 15.5 12.7 19.1



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



#73

Di-n-butylphthalate

Concen: 31.50 ng

RT: 11.77 min Scan# 847

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

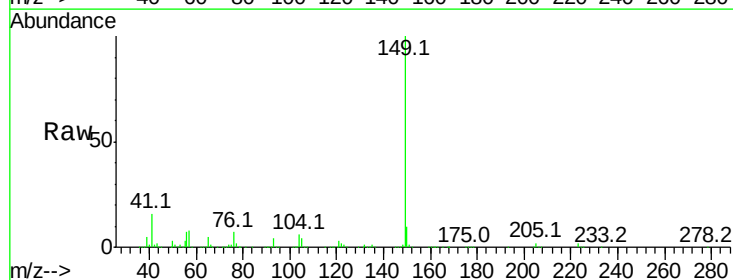
Tgt Ion:149 Resp: 1244155

Ion Ratio Lower Upper

149 100

150 9.7 7.6 11.4

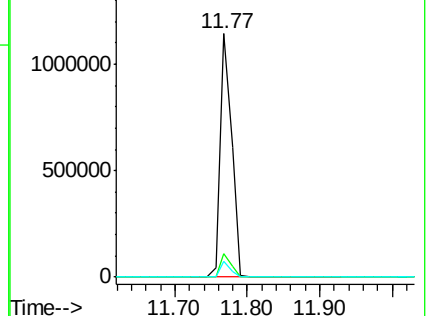
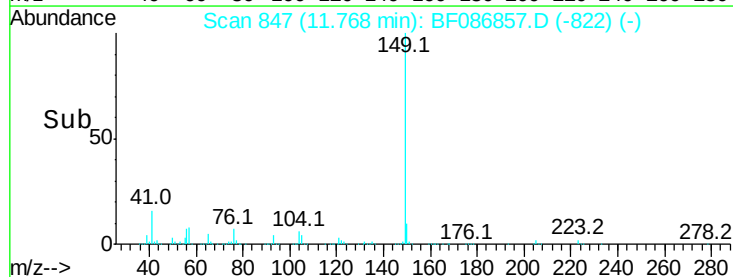
104 6.4 3.8 5.6#

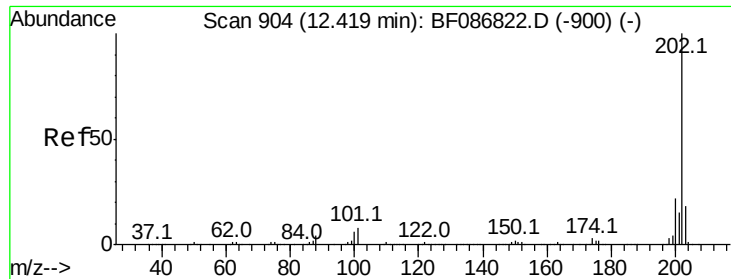


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

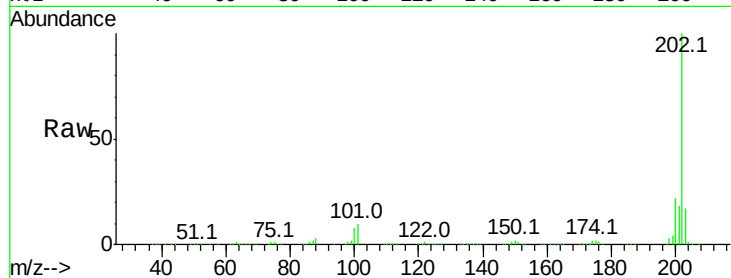




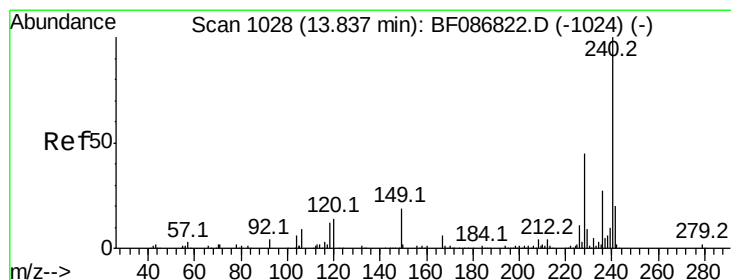
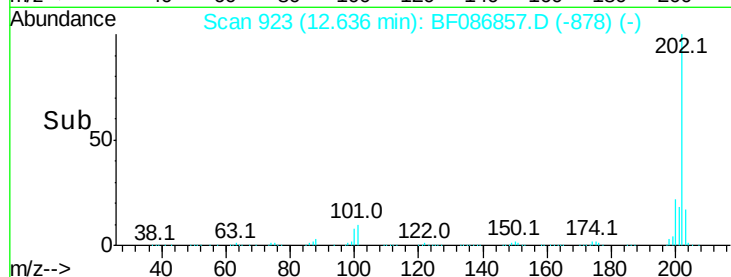
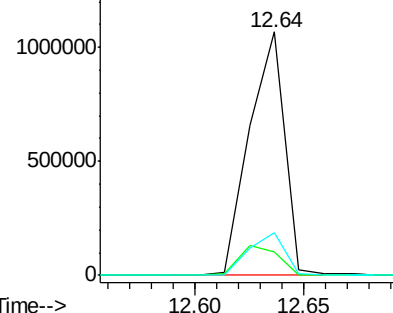
#74  
 Fluoranthene  
 Concen: 32.20 ng  
 RT: 12.64 min Scan# 923  
 Delta R.T. 0.22 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-BNA-SOILD

Tot Ion:202 Resp: 1218184  
 Ion Ratio Lower Upper  
 202 100  
 101 9.5 0.0 35.4  
 203 17.4 0.0 38.1

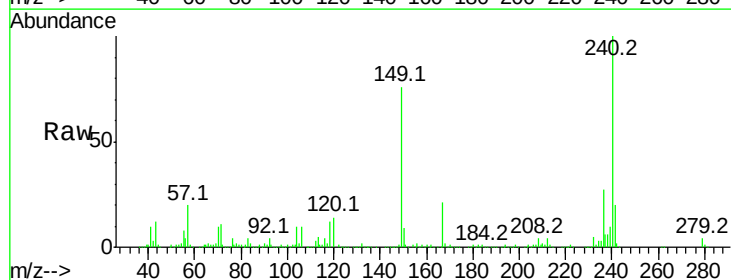


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

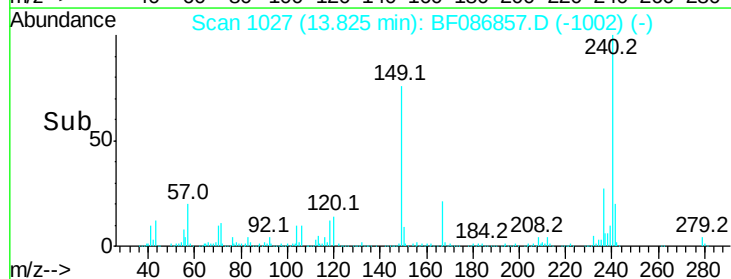
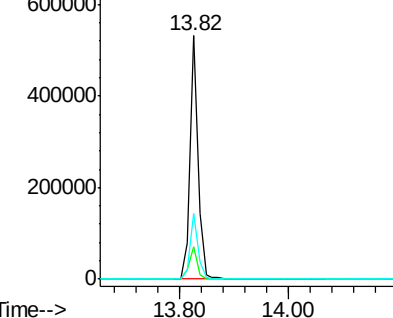


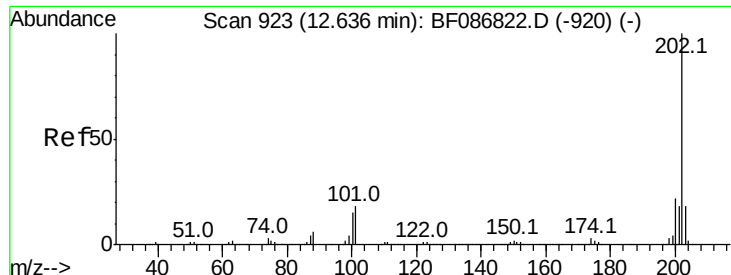
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.82 min Scan# 1027  
 Delta R.T. -0.01 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

Tgt Ion:240 Resp: 538365  
 Ion Ratio Lower Upper  
 240 100  
 120 13.6 11.2 16.8  
 236 27.0 21.2 31.8



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



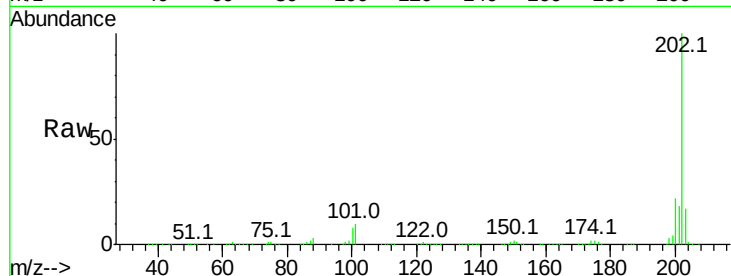


#77  
 Pvrene  
 Concen: 29.84 ng  
 RT: 12.64 min Scan# 923  
 Delta R.T. -0.00 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

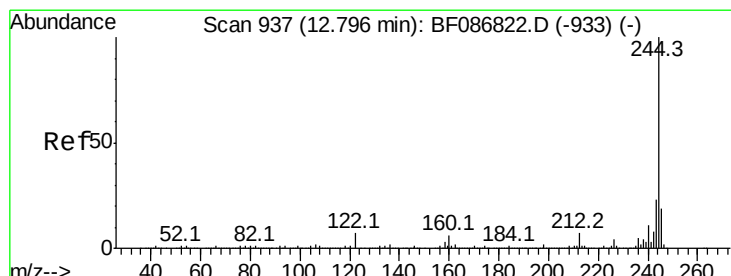
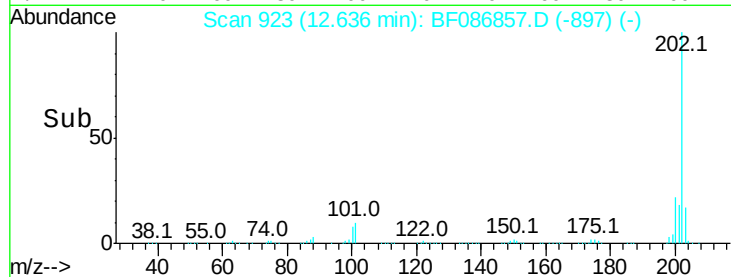
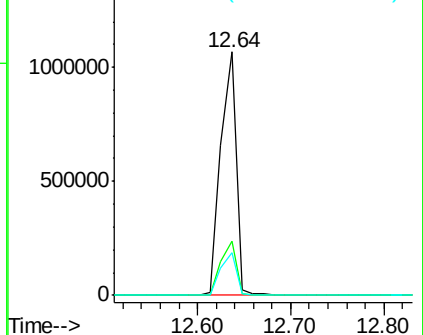
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-BNA-SOILD

Tot Ion:202 Resp: 1230062

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 22.0  | 17.7  | 26.5  |
| 203 | 17.4  | 14.2  | 21.4  |



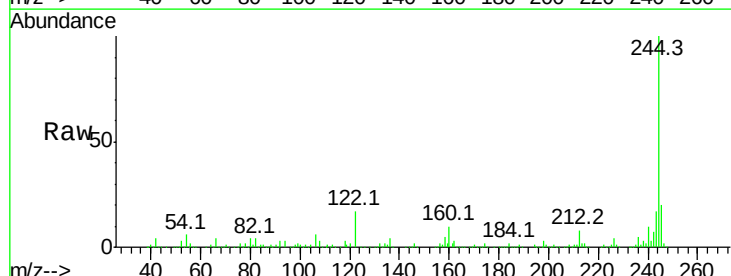
Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E



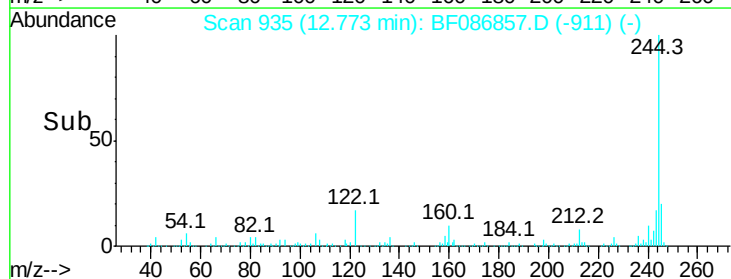
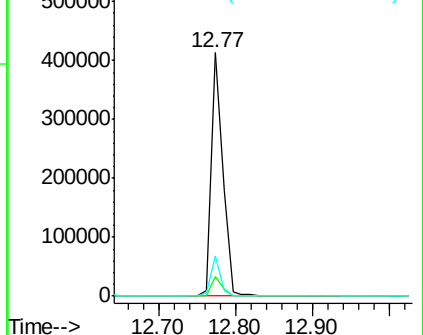
#78  
 Terphenyl-d14  
 Concen: 16.79 ng  
 RT: 12.77 min Scan# 935  
 Delta R.T. -0.02 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

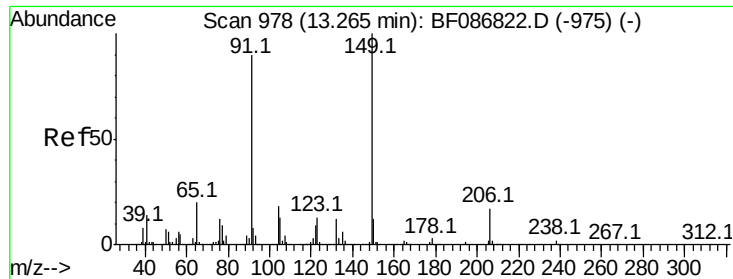
Tgt Ion:244 Resp: 426089

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.9   | 6.2   | 9.2   |
| 122 | 16.5  | 12.0  | 18.0  |



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

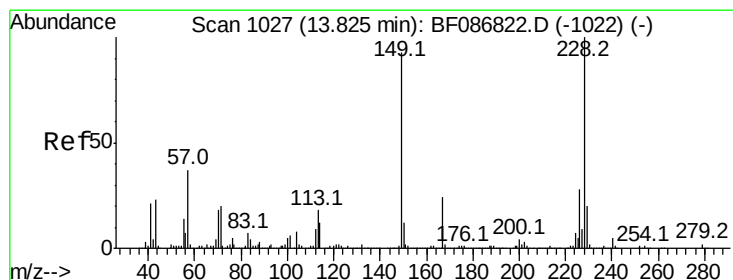
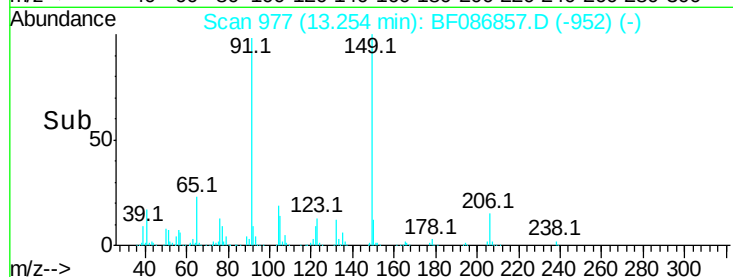
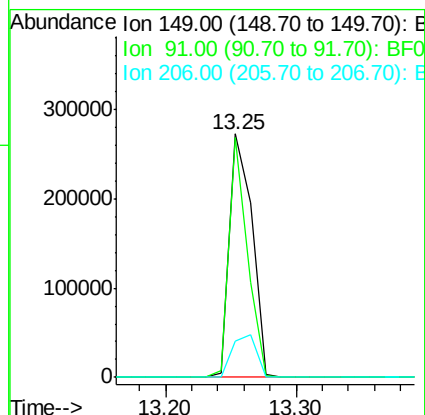
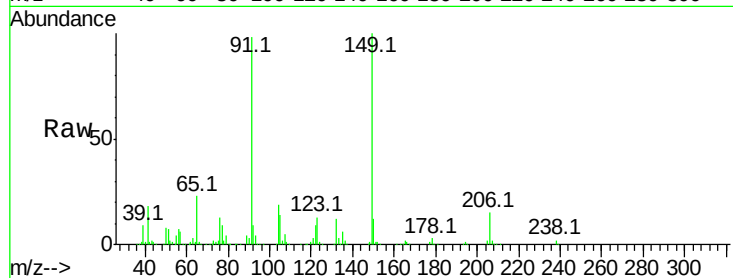




#79  
Butylbenzylphthalate  
Concen: 18.83 ng  
RT: 13.25 min Scan# 977  
Delta R.T. -0.01 min  
Lab File: BF086857.D  
Acq: 10 May 2016 13:56

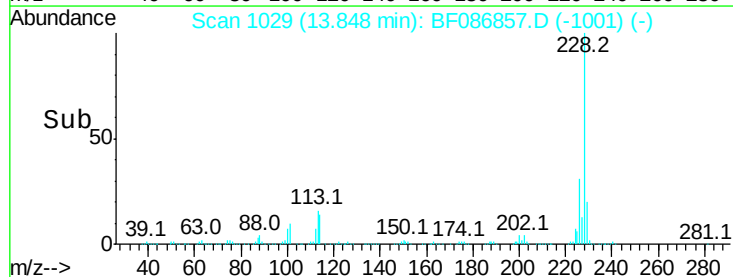
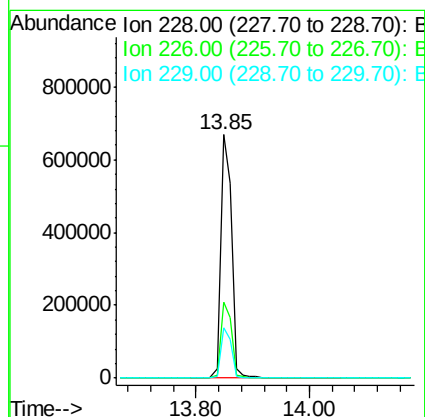
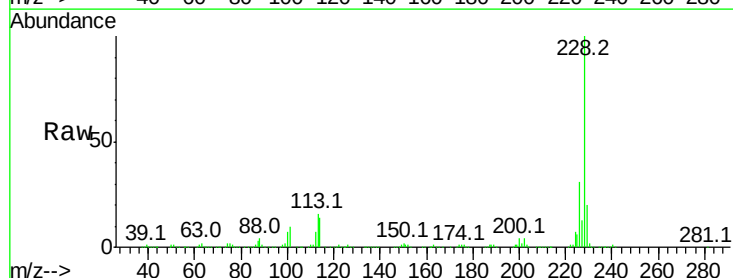
Instrument :  
BNA\_F  
ClientSampleId :  
PT-BNA-SOILD

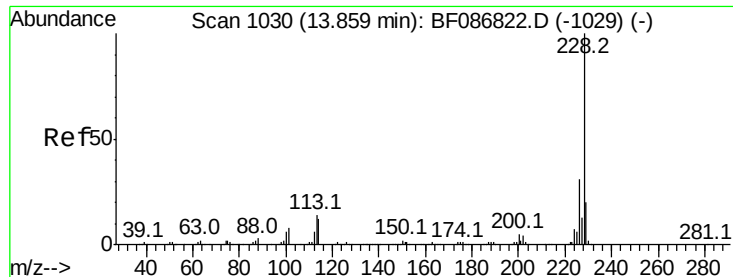
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 98.4  | 48.0  | 72.0# |
| 206     | 14.9  | 15.8  | 23.6# |



#80  
Benzo(a)anthracene  
Concen: 29.28 ng  
RT: 13.85 min Scan# 1029  
Delta R.T. 0.02 min  
Lab File: BF086857.D  
Acq: 10 May 2016 13:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.1  | 22.5  | 33.7  |
| 229     | 20.4  | 16.6  | 25.0  |





#82

Chrysene

Concen: 28.79 ng

RT: 13.85 min Scan# 1029

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILD

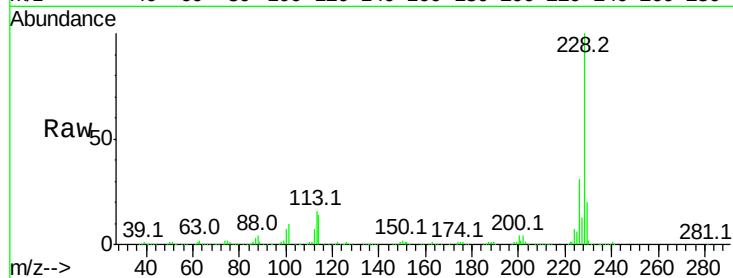
Tot Ion:228 Resp: 884991

Ion Ratio Lower Upper

228 100

226 31.1 24.4 36.6

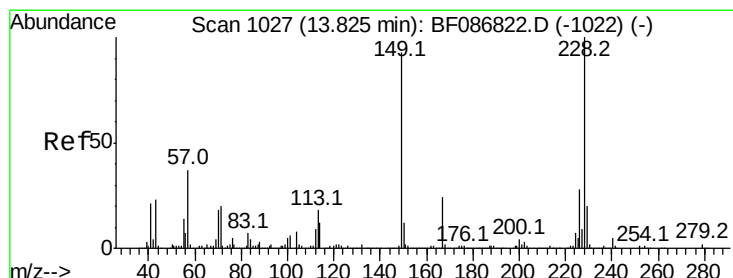
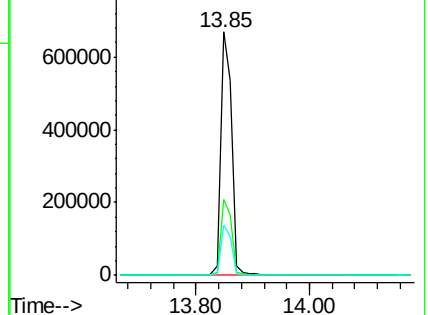
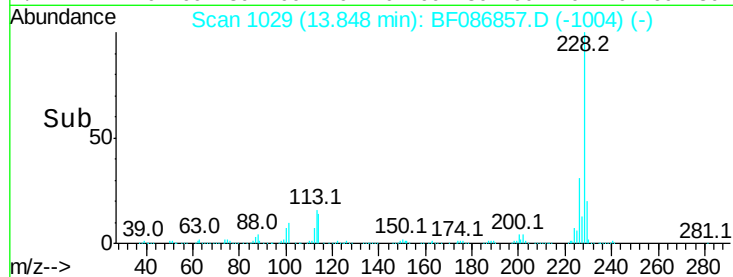
229 20.4 15.8 23.8



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 26.83 ng

RT: 13.82 min Scan# 1027

Delta R.T. -0.00 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

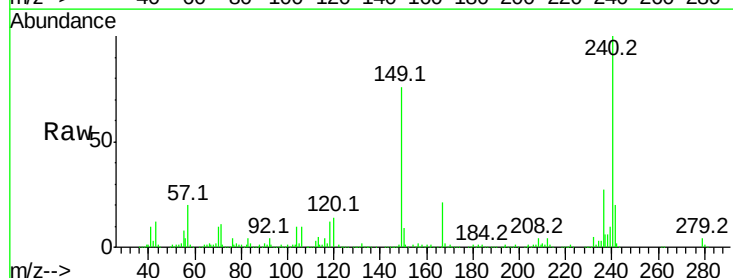
Tgt Ion:149 Resp: 562696

Ion Ratio Lower Upper

149 100

167 27.7 21.8 32.6

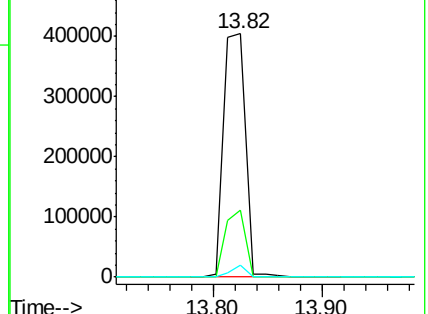
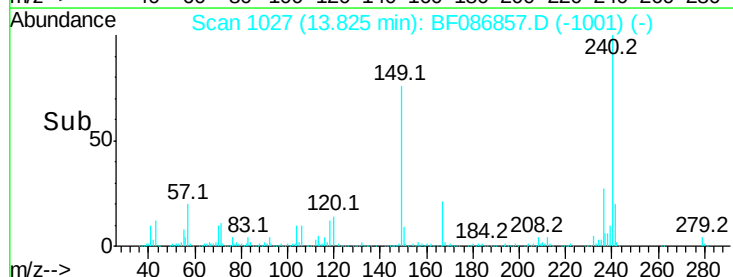
279 4.7 2.6 4.0#

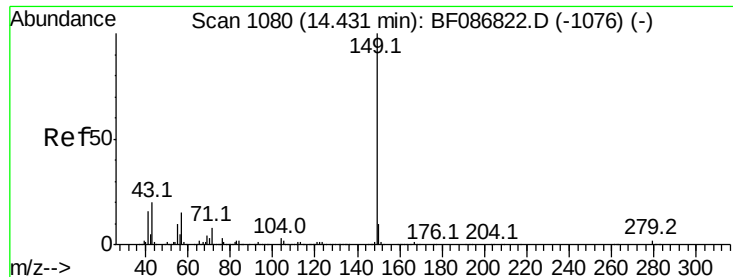


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#84

Di-n-octyl phthalate

Concen: 29.89 ng

RT: 14.43 min Scan# 1080

Delta R.T. -0.00 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILDL

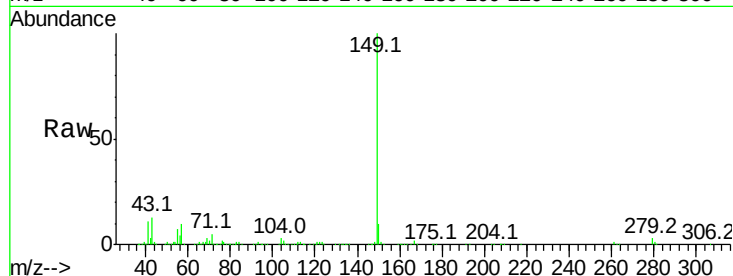
Tot Ion:149 Resp: 1038416

Ion Ratio Lower Upper

149 100

167 1.5 1.2 1.8

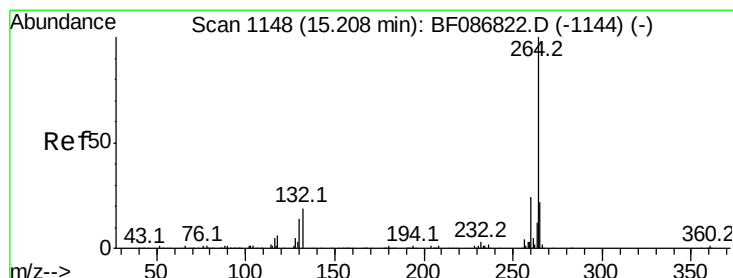
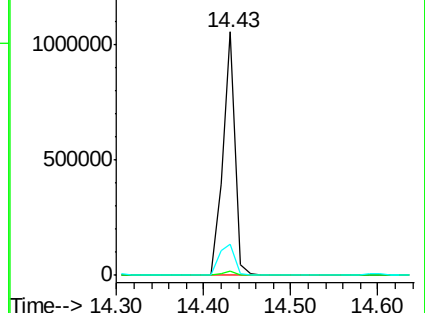
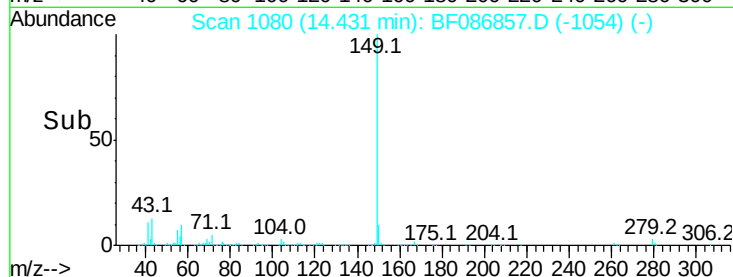
43 16.6 8.2 12.4#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.20 min Scan# 1147

Delta R.T. -0.01 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

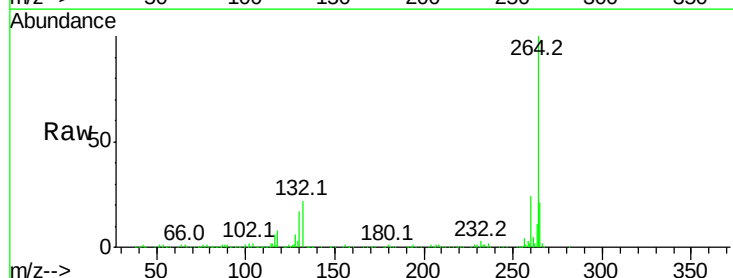
Tgt Ion:264 Resp: 496695

Ion Ratio Lower Upper

264 100

260 24.3 19.5 29.3

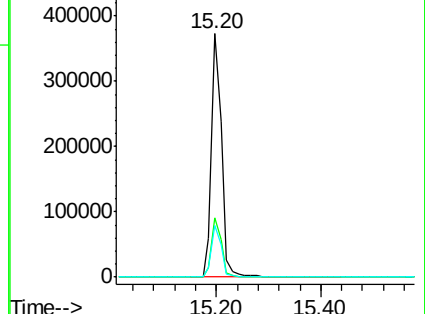
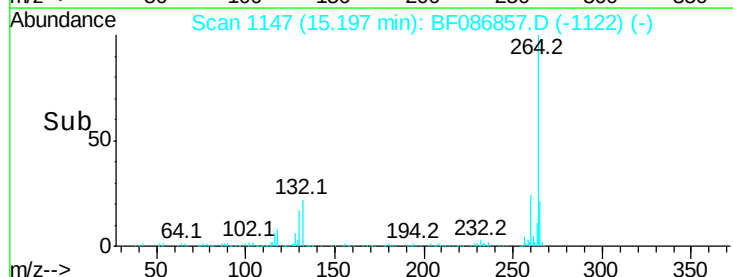
265 21.4 17.3 25.9

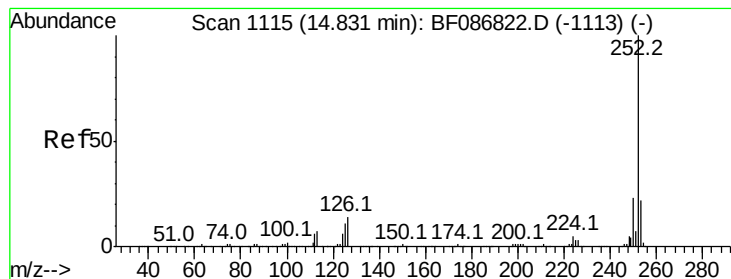


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 41.14 ng

RT: 14.85 min Scan# 1117

Delta R.T. 0.02 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

Instrument :

BNA\_F

ClientSampleId :

PT-BNA-SOILDL

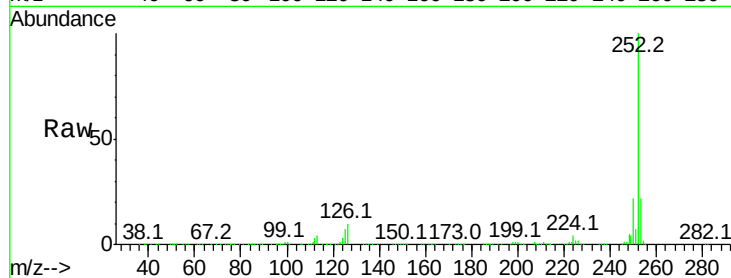
Tot Ion:252 Resp: 1327876

Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.6

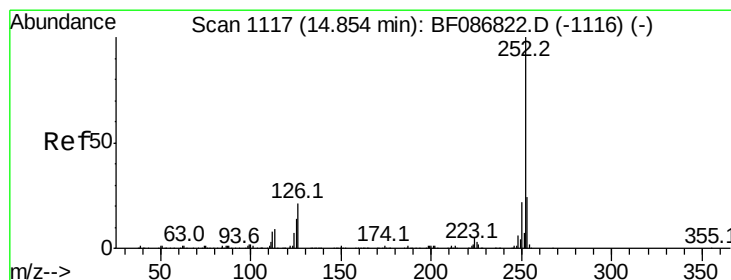
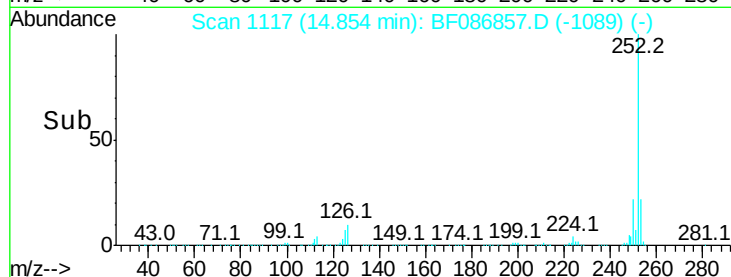
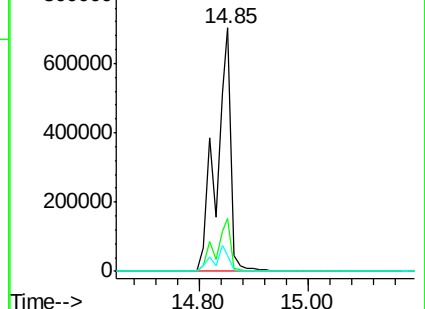
125 6.7 11.4 17.0#



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: 50.30 ng

RT: 14.85 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BF086857.D

Acq: 10 May 2016 13:56

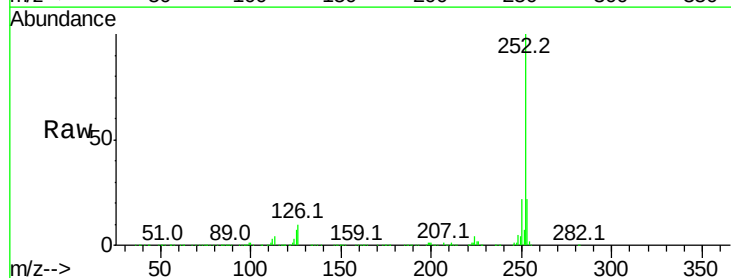
Tgt Ion:252 Resp: 1329397

Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.6

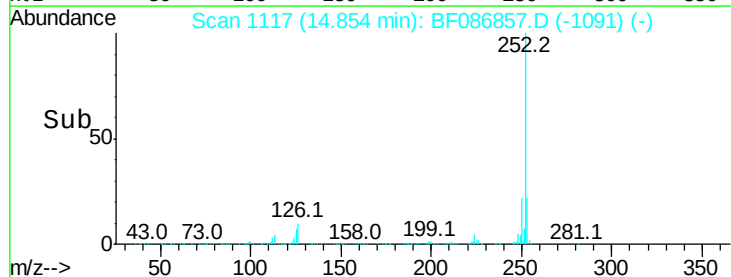
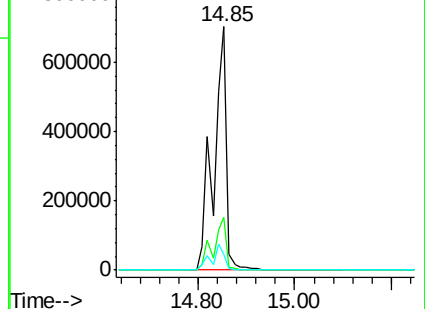
125 6.7 9.1 13.7#

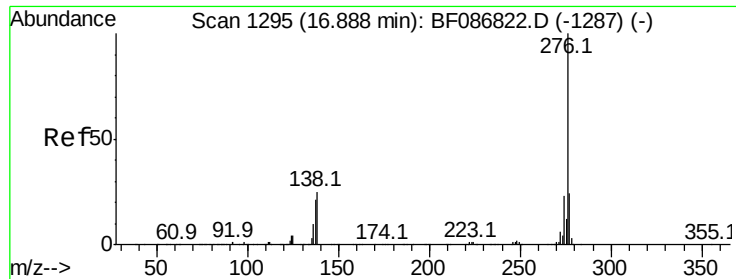


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91  
 Benzo(a,h,i)perylene  
 Concen: 11.70 ng  
 RT: 16.87 min Scan# 1293  
 Delta R.T. -0.02 min  
 Lab File: BF086857.D  
 Acq: 10 May 2016 13:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PT-BNA-SOILDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.1  | 19.6  | 29.4  |
| 138     | 24.1  | 23.6  | 35.4  |

