

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP110819\  
 Data File : BP001016.D  
 Acq On : 08 Nov 2019 16:22  
 Operator : JU  
 Sample : K5609-12DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

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

Quant Time: Nov 08 17:16:49 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP110619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 06 17:07:13 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.37  | 152  | 177072   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.40 | 136  | 682630   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 13.26 | 164  | 407481   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 15.66 | 188  | 858846   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 19.30 | 240  | 815269   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 21.08 | 264  | 933107   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 6.28  | 112 | 257539 | 26.47 | ng | -0.02 |
| 7) Phenol-d6                | 7.80  | 99  | 357410 | 29.05 | ng | -0.02 |
| 23) Nitrobenzene-d5         | 9.24  | 82  | 207812 | 16.84 | ng | -0.02 |
| 42) 2,4,6-Tribromophenol    | 14.56 | 330 | 132336 | 27.21 | ng | 0.00  |
| 45) 2-Fluorobiphenyl        | 12.18 | 172 | 532506 | 19.68 | ng | 0.00  |
| 79) Terphenyl-d14           | 17.94 | 244 | 815261 | 19.89 | ng | 0.00  |

|                                |       |     |         |        |    |     |
|--------------------------------|-------|-----|---------|--------|----|-----|
| Target Compounds               |       |     |         | Qvalue |    |     |
| 8) 2-Chlorophenol              | 8.03  | 128 | 305343  | 29.599 | ng | 99  |
| 10) Phenol                     | 7.82  | 94  | 256693  | 19.077 | ng | 96  |
| 11) bis(2-Chloroethyl)ether    | 7.97  | 93  | 312968  | 29.878 | ng | 99  |
| 12) 1,3-Dichlorobenzene        | 8.28  | 146 | 321536  | 24.843 | ng | 98  |
| 13) 1,4-Dichlorobenzene        | 8.40  | 146 | 200355  | 15.369 | ng | 99  |
| 14) 1,2-Dichlorobenzene        | 8.63  | 146 | 165314  | 13.712 | ng | 99  |
| 19) n-Nitroso-di-n-propylamine | 9.02  | 70  | 186622  | 25.264 | ng | 98  |
| 24) Nitrobenzene               | 9.28  | 77  | 390366  | 31.525 | ng | 99  |
| 25) Isophorone                 | 9.67  | 82  | 1153363 | 50.778 | ng | 99  |
| 26) 2-Nitrophenol              | 9.79  | 139 | 192058  | 41.506 | ng | 96  |
| 29) 2,4-Dichlorophenol         | 10.18 | 162 | 269565  | 25.774 | ng | 99  |
| 36) 4-Chloro-3-methylphenol    | 11.32 | 107 | 540306  | 49.750 | ng | 97  |
| 37) 2-Methylnaphthalene        | 11.57 | 142 | 535040  | 22.413 | ng | 99  |
| 44) 2,4,5-Trichlorophenol      | 12.07 | 196 | 225237  | 25.751 | ng | 97  |
| 47) 2-Chloronaphthalene        | 12.36 | 162 | 793307  | 32.343 | ng | 100 |
| 49) Acenaphthylene             | 13.03 | 152 | 676333  | 18.138 | ng | 100 |
| 51) 2,6-Dinitrotoluene         | 12.93 | 165 | 279477  | 44.467 | ng | 90  |
| 52) Acenaphthene               | 13.32 | 154 | 461231  | 20.681 | ng | 97  |
| 55) Dibenzofuran               | 13.60 | 168 | 778520  | 22.349 | ng | 99  |
| 56) 4-Nitrophenol              | 13.47 | 139 | 107491  | 22.548 | ng | 92  |
| 57) 2,4-Dinitrotoluene         | 13.59 | 165 | 335598  | 42.511 | ng | 99  |
| 60) Diethylphthalate           | 14.02 | 149 | 1128624 | 37.291 | ng | 99  |
| 61) 4-Chlorophenyl-phenylether | 14.19 | 204 | 655285  | 44.704 | ng | 96  |
| 67) 4-Bromophenyl-phenylether  | 14.99 | 248 | 295938  | 29.271 | ng | 98  |
| 68) Hexachlorobenzene          | 15.06 | 284 | 285422  | 24.361 | ng | 99  |
| 72) Anthracene                 | 15.77 | 178 | 580223  | 13.531 | ng | 99  |
| 75) Fluoranthene               | 17.40 | 202 | 672849  | 13.542 | ng | 98  |
| 78) Pyrene                     | 17.71 | 202 | 1894251 | 32.877 | ng | 100 |
| 80) Butylbenzylphthalate       | 18.59 | 149 | 505475  | 22.157 | ng | 99  |
| 84) Bis(2-ethylhexyl)phthalate | 19.35 | 149 | 1469861 | 50.673 | ng | 99  |
| 85) Di-n-octyl phthalate       | 20.13 | 149 | 2018228 | 38.649 | ng | 99  |
| 88) Benzo(b)fluoranthene       | 20.59 | 252 | 728879  | 13.104 | ng | 99  |
| 92) Benzo(a,h,i)perylene       | 23.24 | 276 | 926166  | 17.621 | ng | 97  |

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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

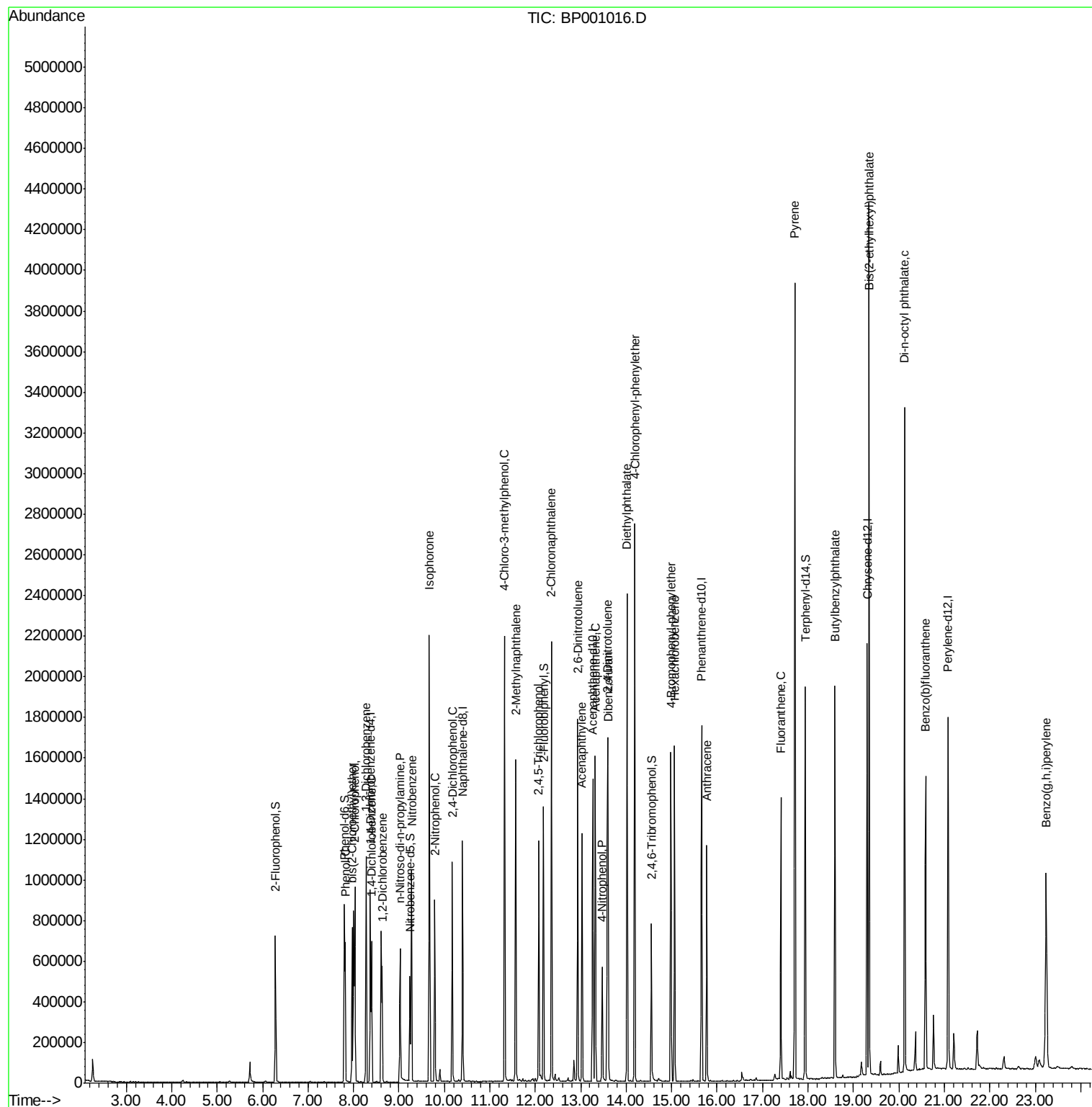
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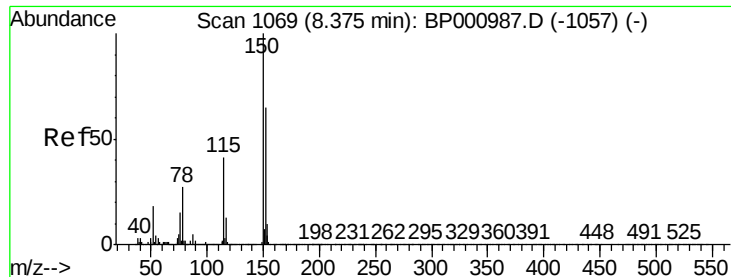
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.37 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Instrument :

BNA\_P

ClientSampleId :

PT-BNA-SOILDL

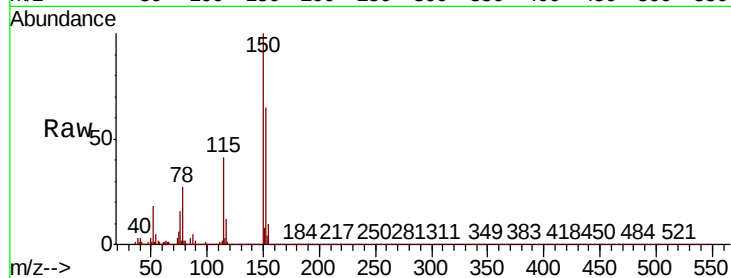
Tot Ion:152 Resp: 177072

Ion Ratio Lower Upper

152 100

150 154.1 123.6 185.4

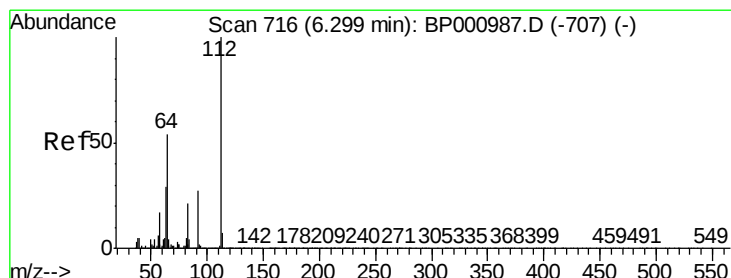
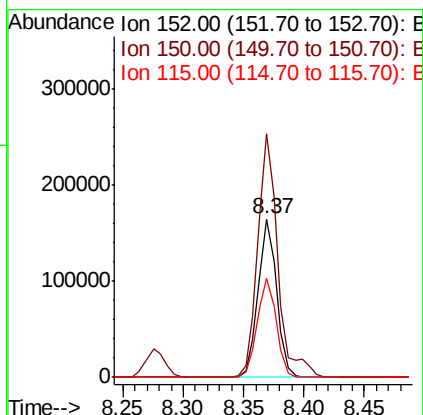
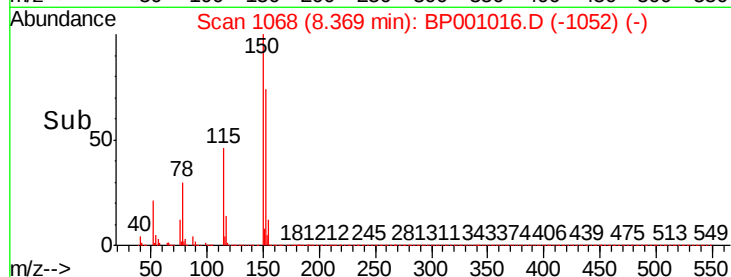
115 62.4 50.1 75.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 26.473 ng

RT: 6.28 min Scan# 713

Delta R.T. -0.02 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

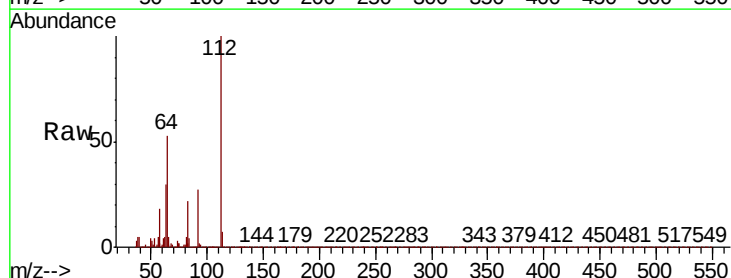
Tgt Ion:112 Resp: 257539

Ion Ratio Lower Upper

112 100

64 53.2 43.4 65.0

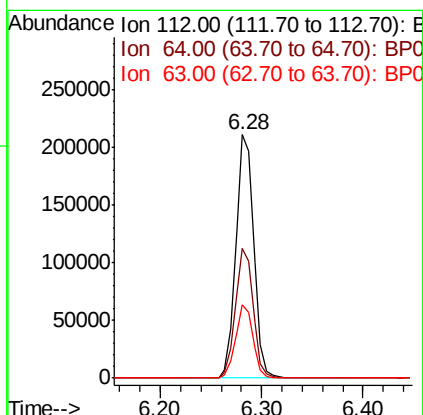
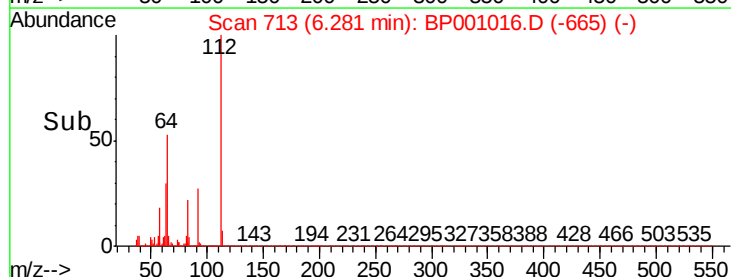
63 29.9 23.4 35.0

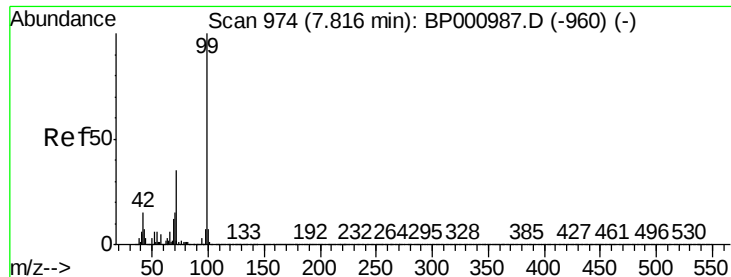


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BP0

Ion 63.00 (62.70 to 63.70): BP0





#7

Phenol-d6

Concen: 29.053 ng

RT: 7.80 min Scan# 971

Delta R.T. -0.02 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Instrument :

BNA\_P

ClientSampleId :

PT-BNA-SOILDL

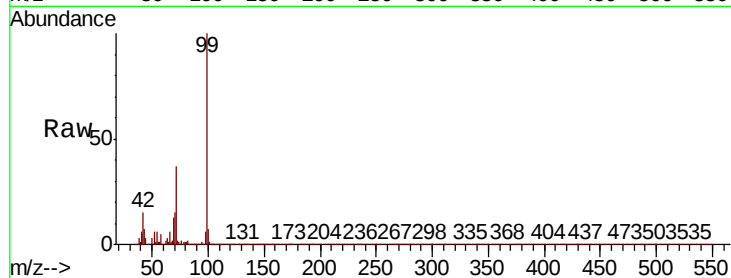
Tot Ion: 99 Resp: 357410

Ion Ratio Lower Upper

99 100

42 15.3 11.6 17.4

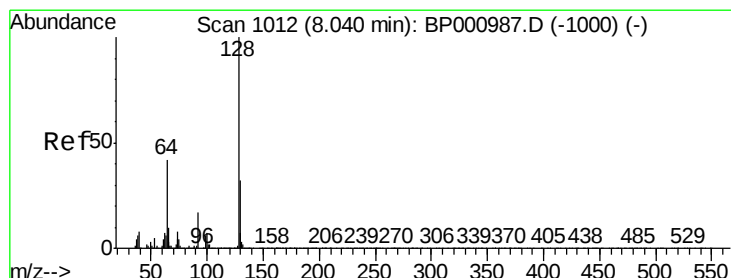
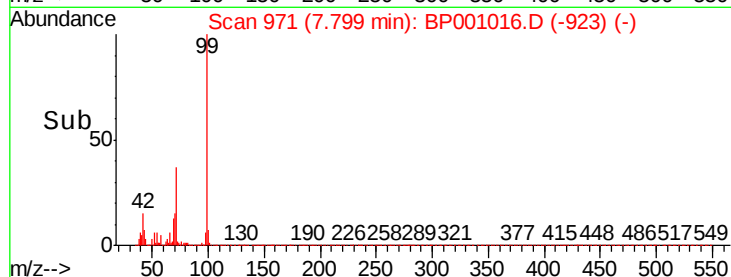
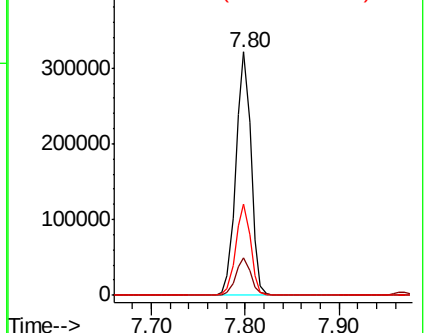
71 37.4 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#8

2-Chlorophenol

Concen: 29.599 ng

RT: 8.03 min Scan# 1010

Delta R.T. -0.01 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

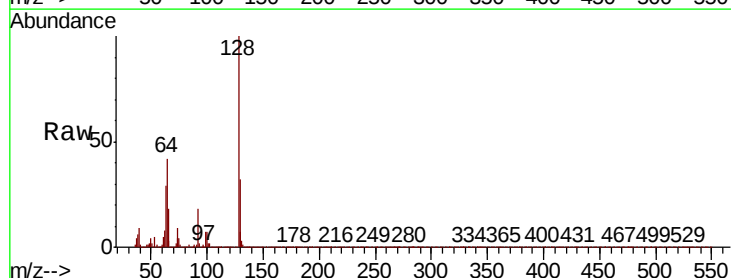
Tgt Ion: 128 Resp: 305343

Ion Ratio Lower Upper

128 100

130 31.7 12.0 52.0

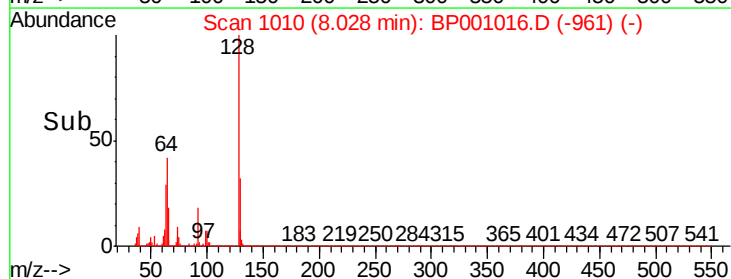
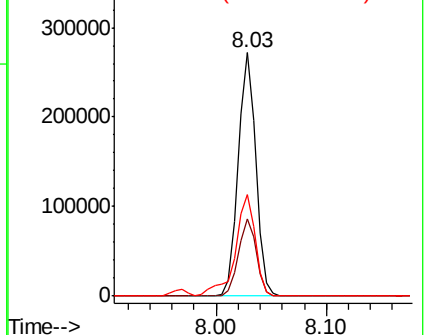
64 42.0 22.7 62.7

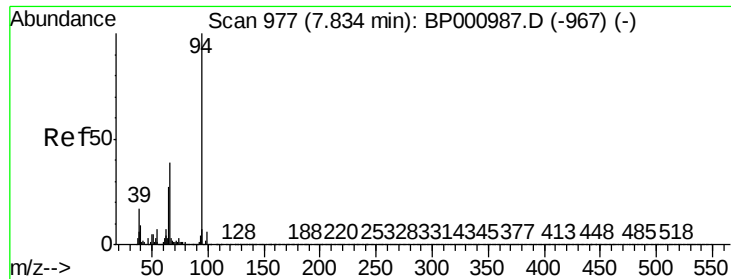


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BP0





#10

Phenol

Concen: 19.077 ng

RT: 7.82 min Scan# 974

Delta R.T. -0.02 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Instrument :

BNA\_P

ClientSampleId :

PT-BNA-SOILD

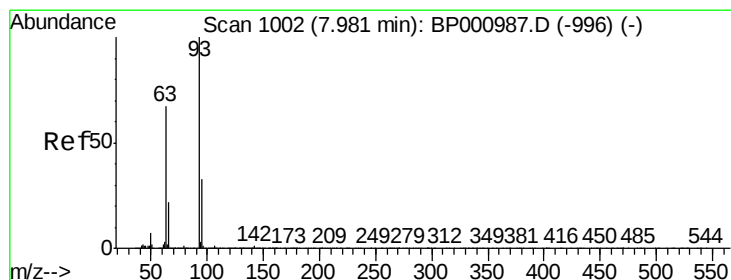
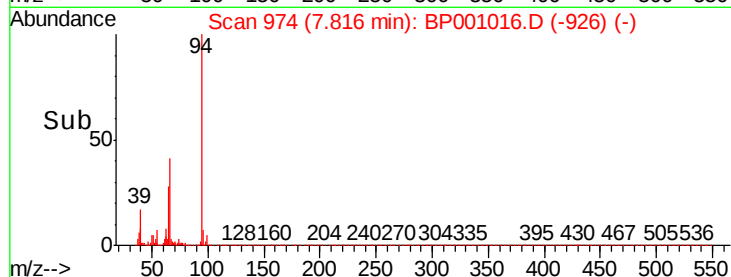
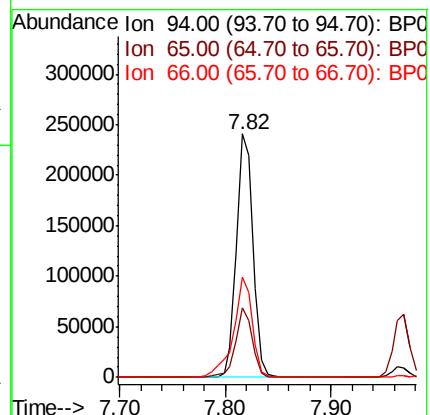
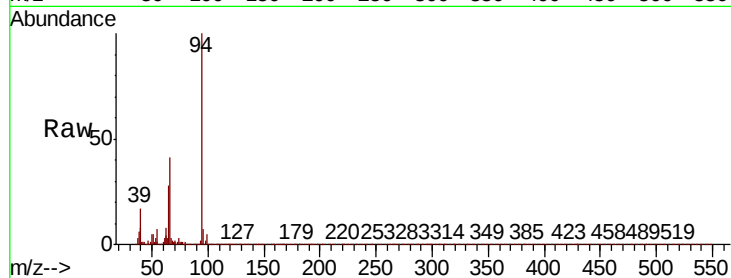
Tot Ion: 94 Resp: 256693

Ion Ratio Lower Upper

94 100

65 28.3 6.7 46.7

66 41.2 18.6 58.6



#11

bis(2-Chloroethyl)ether

Concen: 29.878 ng

RT: 7.97 min Scan# 1000

Delta R.T. -0.01 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

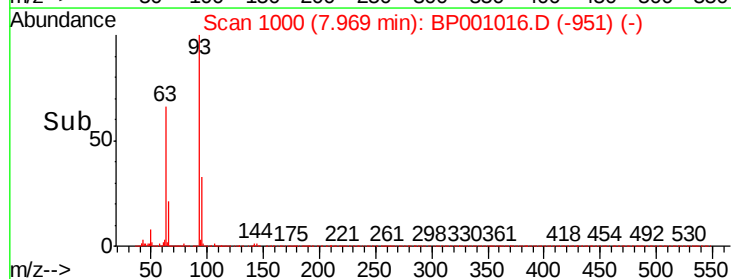
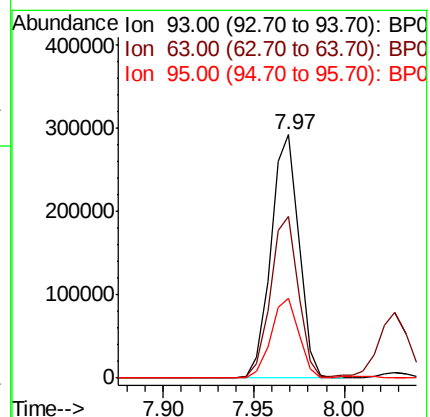
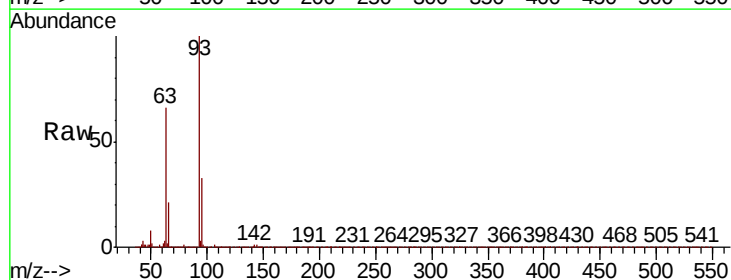
Tgt Ion: 93 Resp: 312968

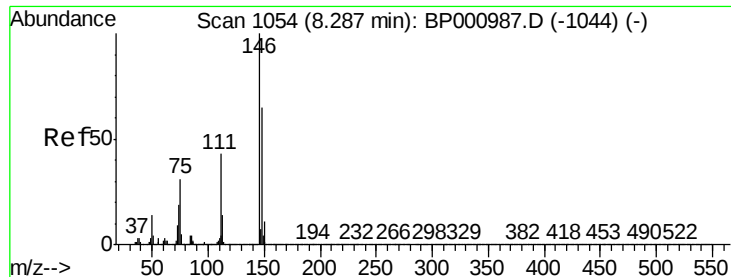
Ion Ratio Lower Upper

93 100

63 66.2 47.4 87.4

95 32.6 12.6 52.6





#12

1,3-Dichlorobenzene

Concen: 24.843 ng

RT: 8.28 min Scan# 1052

Delta R.T. -0.01 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Instrument :

BNA\_P

ClientSampleId :

PT-BNA-SOILDL

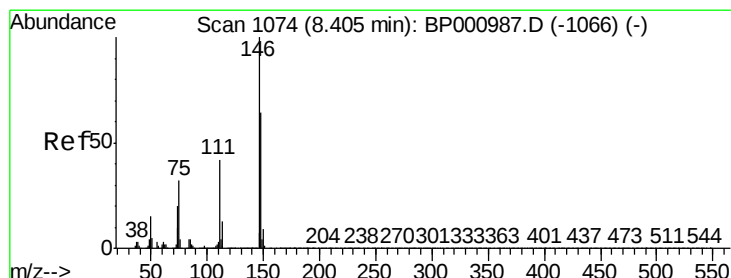
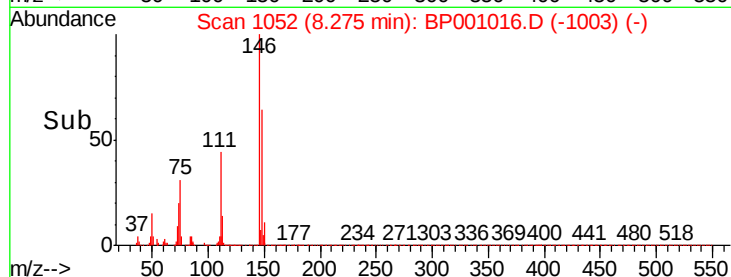
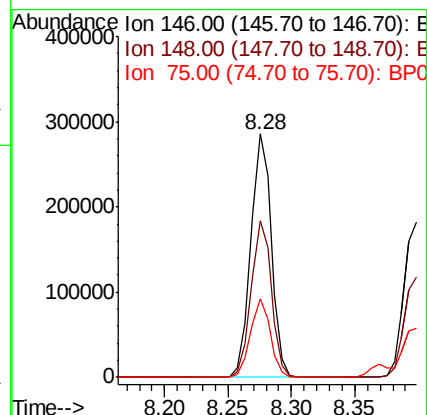
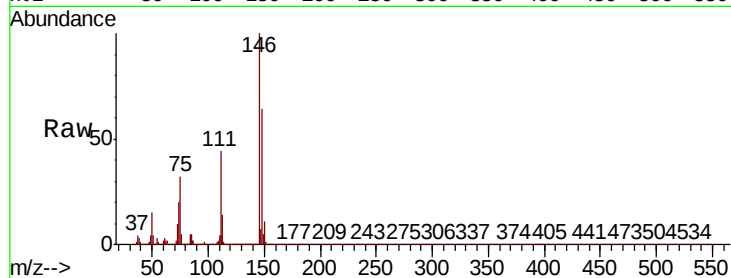
Tot Ion:146 Resp: 321536

Ion Ratio Lower Upper

146 100

148 64.2 52.3 78.5

75 32.1 24.6 37.0



#13

1,4-Dichlorobenzene

Concen: 15.369 ng

RT: 8.40 min Scan# 1073

Delta R.T. -0.01 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

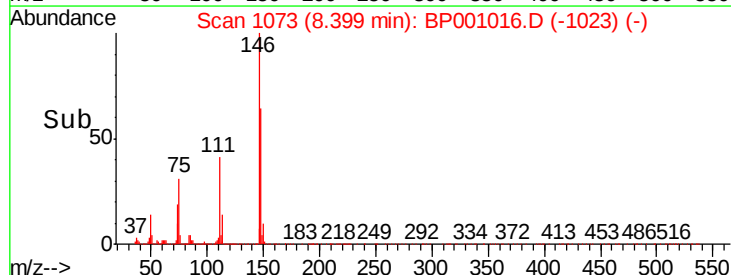
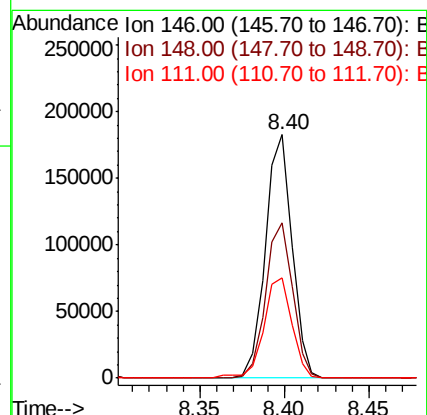
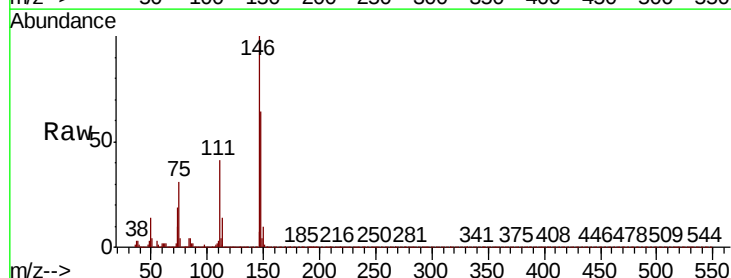
Tgt Ion:146 Resp: 200355

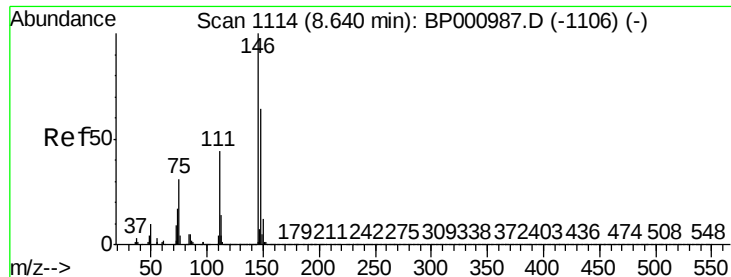
Ion Ratio Lower Upper

146 100

148 64.0 51.5 77.3

111 41.3 33.8 50.6





#14

1,2-Dichlorobenzene

Concen: 13.712 ng

RT: 8.63 min Scan# 1113

Delta R.T. -0.01 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

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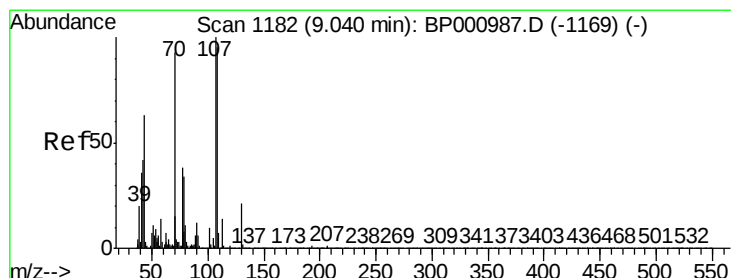
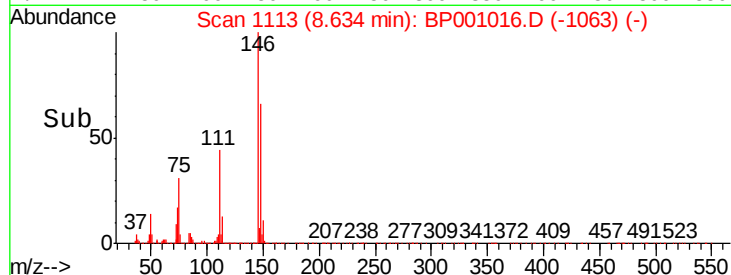
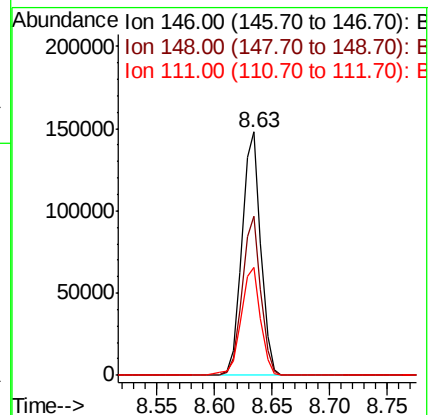
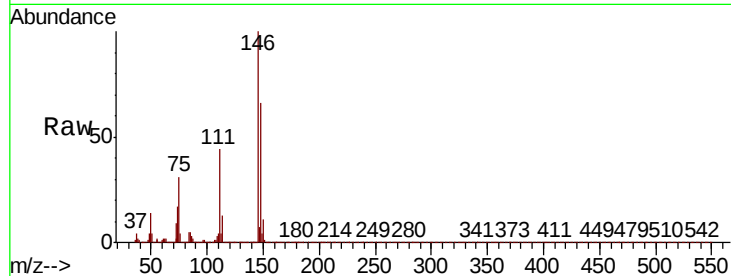
Tot Ion:146 Resp: 165314

Ion Ratio Lower Upper

146 100

148 65.5 51.4 77.0

111 44.3 35.6 53.4



#19

n-Nitroso-di-n-propylamine

Concen: 25.264 ng

RT: 9.02 min Scan# 1179

Delta R.T. -0.02 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Tgt Ion: 70 Resp: 186622

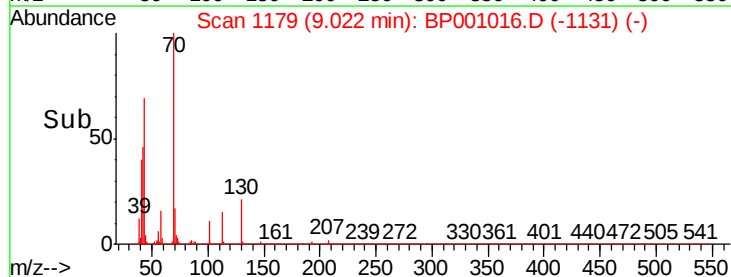
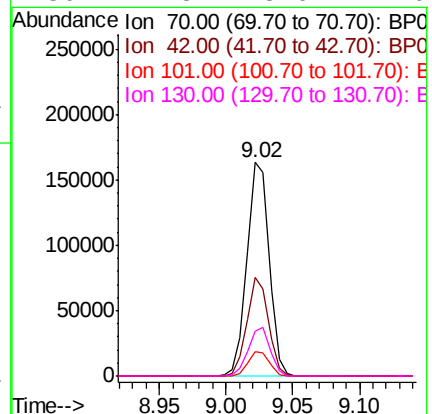
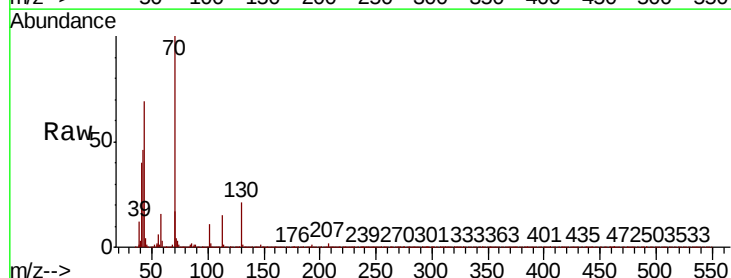
Ion Ratio Lower Upper

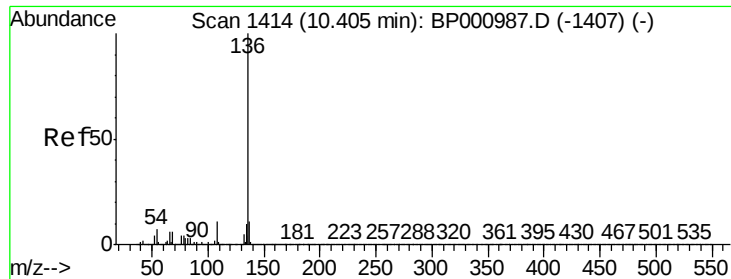
70 100

42 46.3 36.3 54.5

101 11.1 8.7 13.1

130 21.3 18.0 27.0

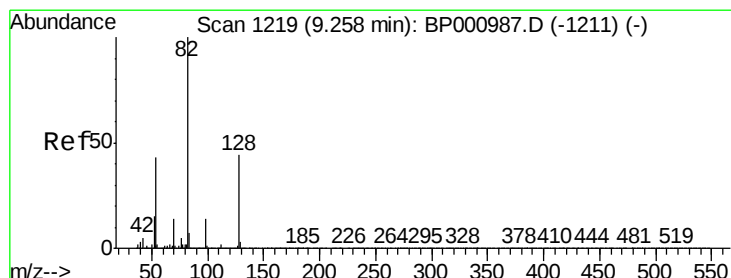
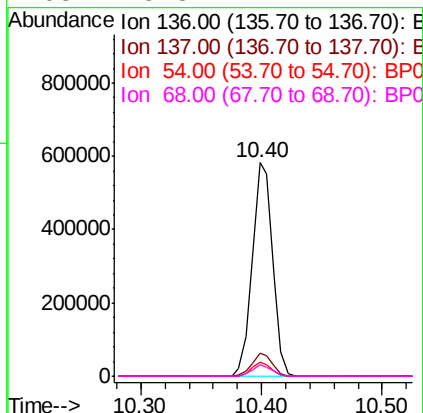
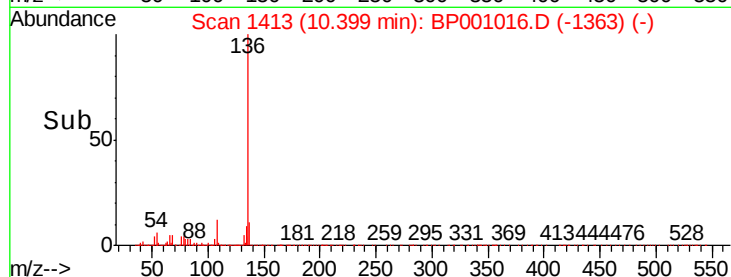
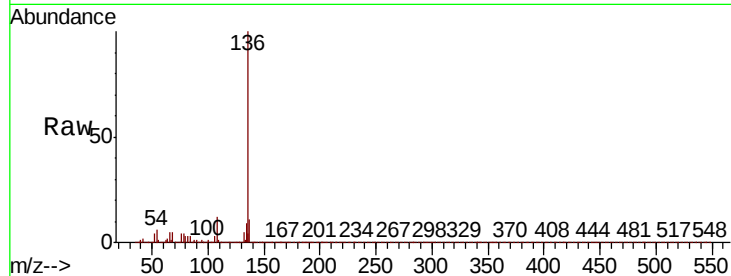




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.40 min Scan# 1413  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

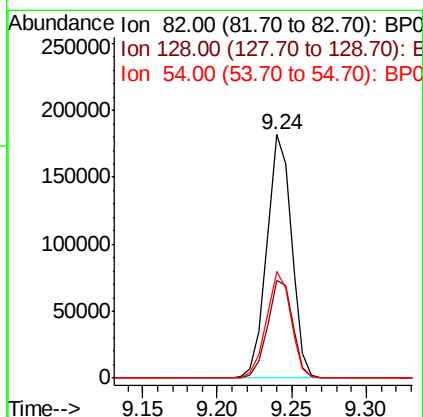
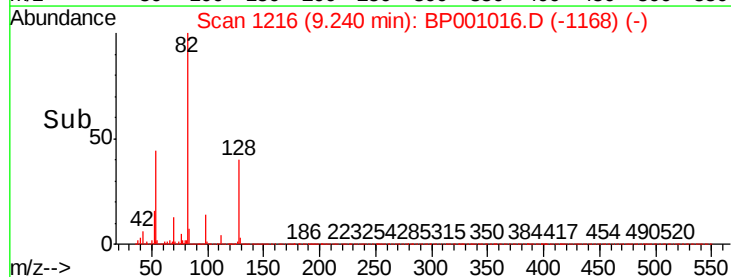
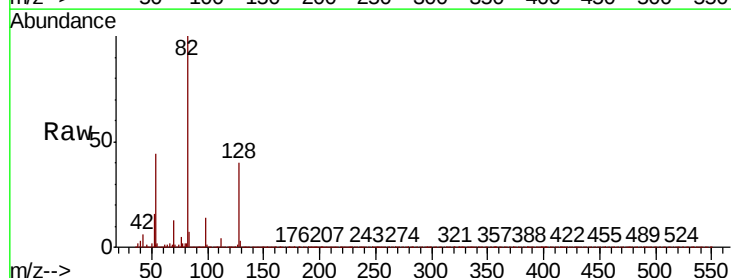
Instrument :  
BNA\_P  
ClientSampleId :  
PT-BNA-SOILDL

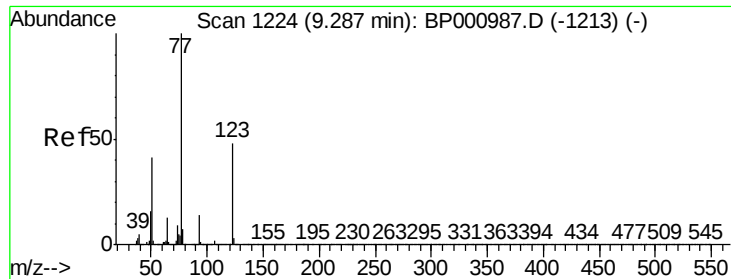
|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 682630 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 10.9    | 9.0 13.6     |
| 54 6.3      | 5.4 8.2      |
| 68 5.3      | 4.7 7.1      |



#23  
Nitrobenzene-d5  
Concen: 16.840 ng  
RT: 9.24 min Scan# 1216  
Delta R.T. -0.02 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 207812 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 40.0    | 35.3 52.9    |
| 54 43.9     | 34.3 51.5    |

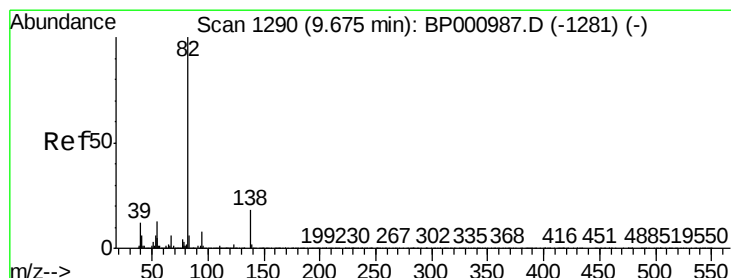
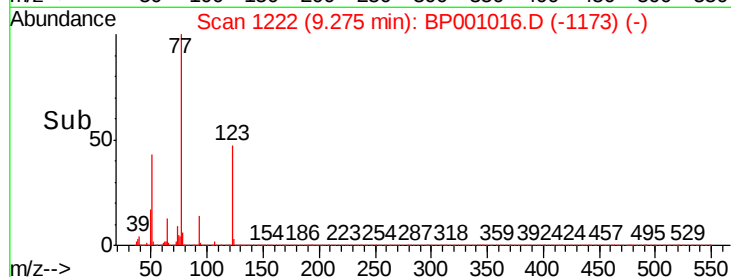
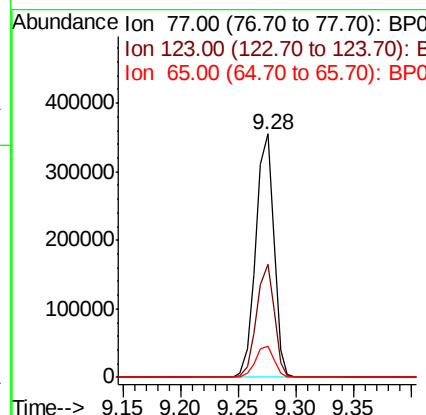
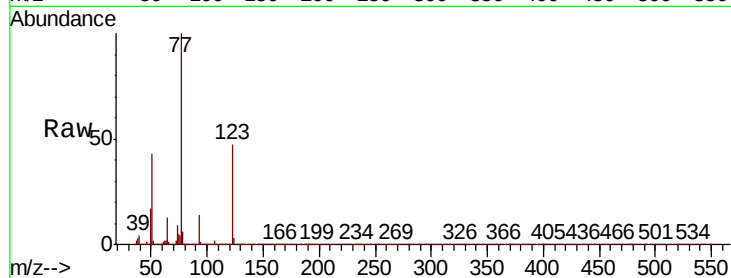




#24  
Nitrobenzene  
Concen: 31.525 ng  
RT: 9.28 min Scan# 1222  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

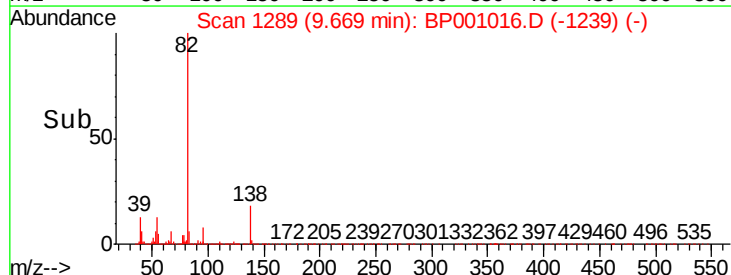
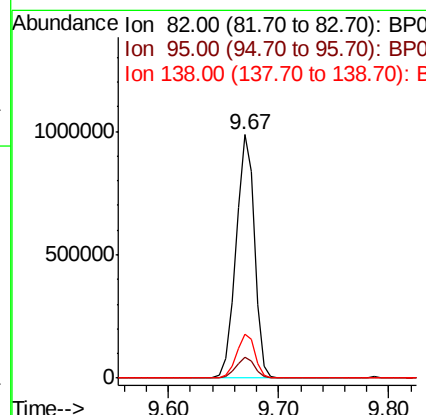
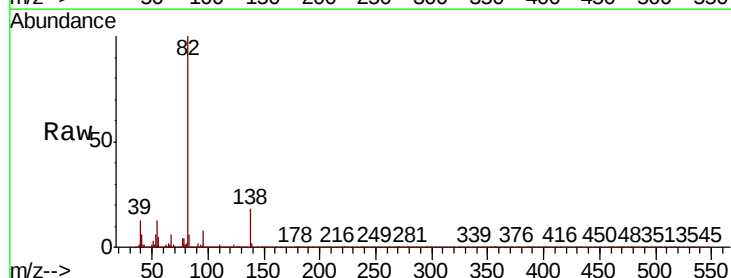
Instrument :  
BNA\_P  
ClientSampleId :  
PT-BNA-SOILD

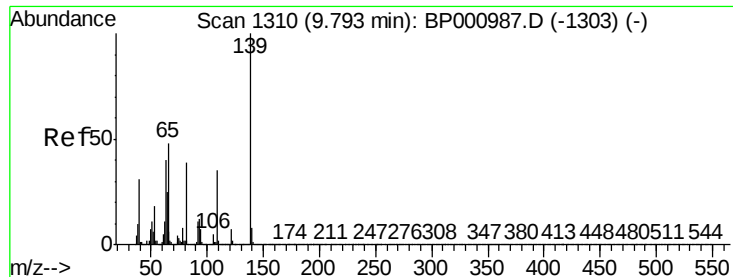
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 46.5  | 38.1  | 57.1  |
| 65      | 12.9  | 10.2  | 15.2  |



#25  
Isophorone  
Concen: 50.778 ng  
RT: 9.67 min Scan# 1289  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 8.5   | 6.2   | 9.4   |
| 138     | 17.9  | 14.2  | 21.4  |

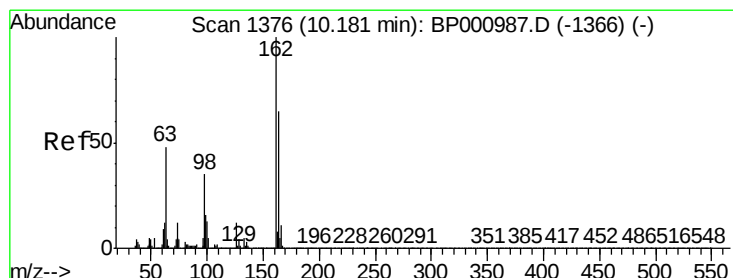
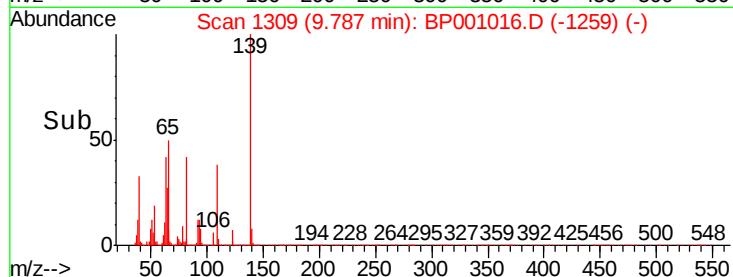
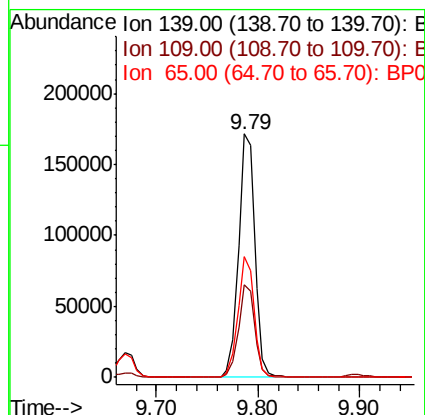
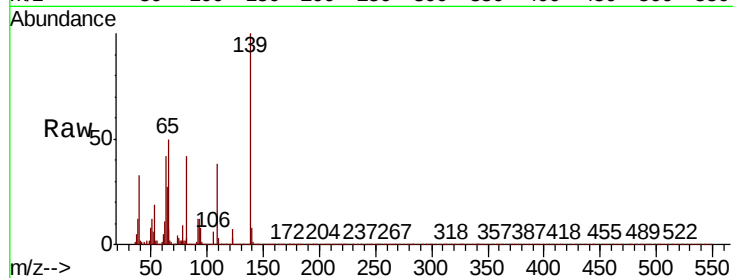




#26  
2-Nitrophenol  
Concen: 41.506 ng  
RT: 9.79 min Scan# 1309  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

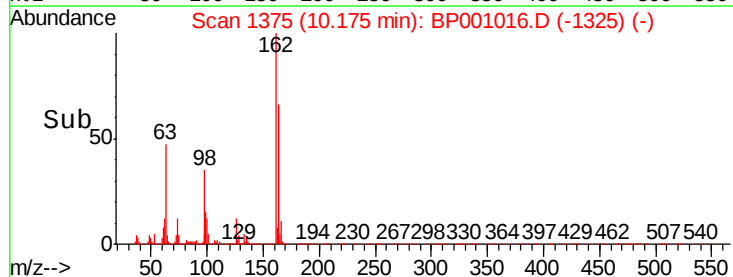
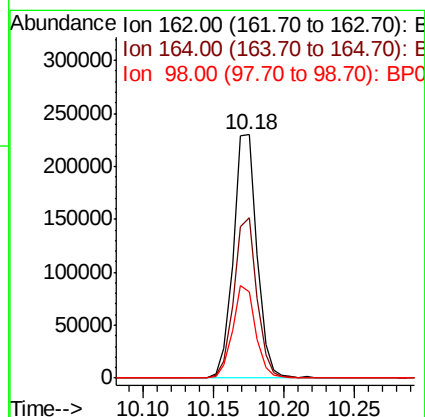
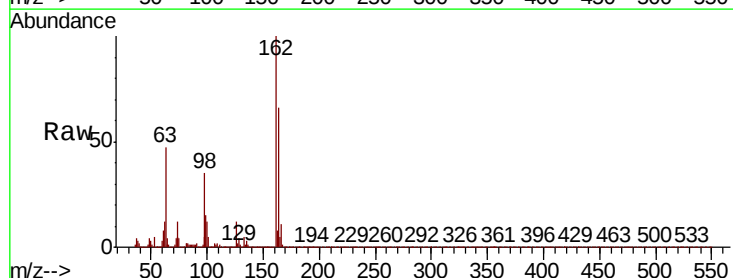
Instrument :  
BNA\_P  
ClientSampleId :  
PT-BNA-SOILD

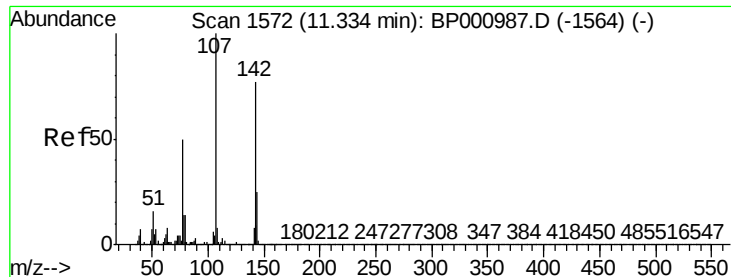
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 37.9  | 27.7  | 41.5  |
| 65      | 49.6  | 38.2  | 57.4  |



#29  
2,4-Dichlorophenol  
Concen: 25.774 ng  
RT: 10.18 min Scan# 1375  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 66.1  | 44.5  | 84.5  |
| 98      | 35.2  | 15.2  | 55.2  |

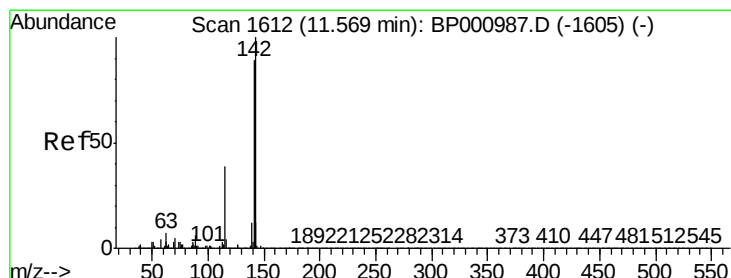
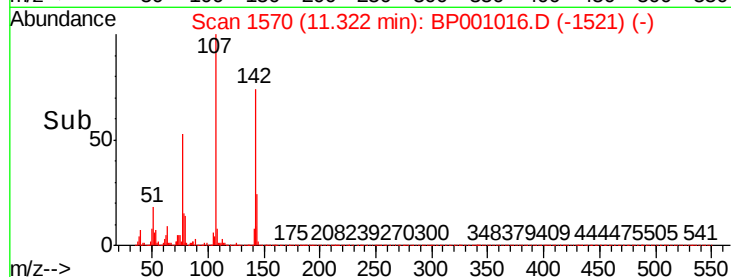
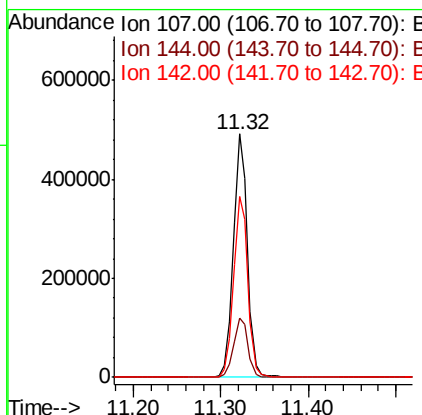
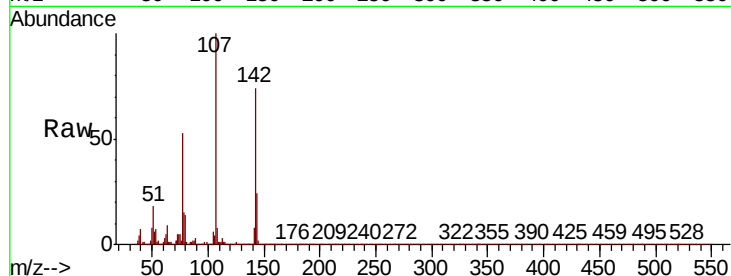




#36  
4-Chloro-3-methylphenol  
Concen: 49.750 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

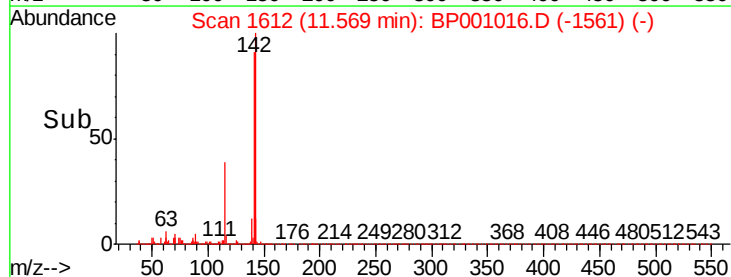
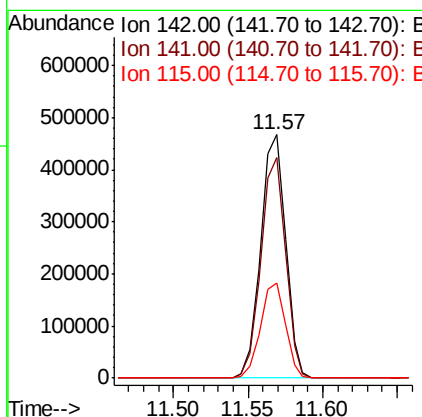
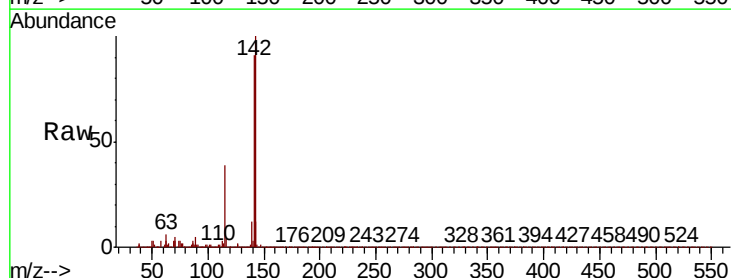
Instrument :  
BNA\_P  
ClientSampleId :  
PT-BNA-SOILDL

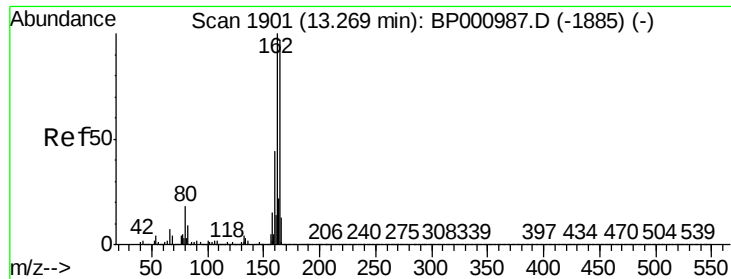
Tot Ion:107 Resp: 540306  
Ion Ratio Lower Upper  
107 100  
144 24.4 20.0 30.0  
142 74.2 61.9 92.9



#37  
2-Methylnaphthalene  
Concen: 22.413 ng  
RT: 11.57 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

Tgt Ion:142 Resp: 535040  
Ion Ratio Lower Upper  
142 100  
141 90.6 71.5 107.3  
115 39.2 30.8 46.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 13.26 min Scan# 1900

Delta R.T. -0.01 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Instrument :

BNA\_P

ClientSampleId :

PT-BNA-SOILD

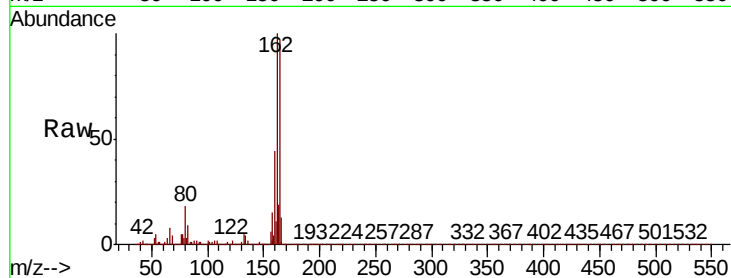
Tot Ion:164 Resp: 407481

Ion Ratio Lower Upper

164 100

162 103.5 82.6 123.8

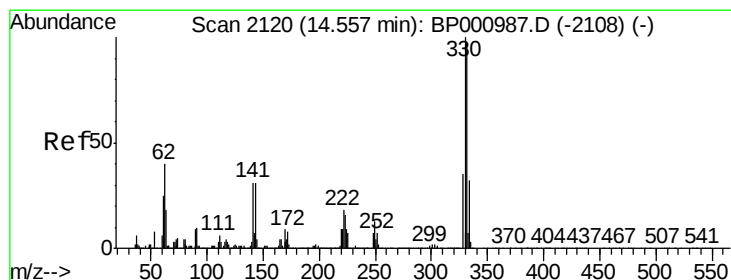
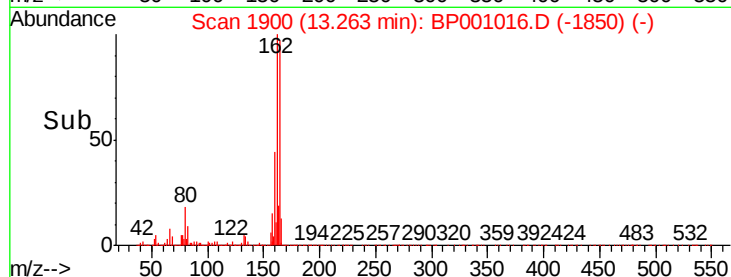
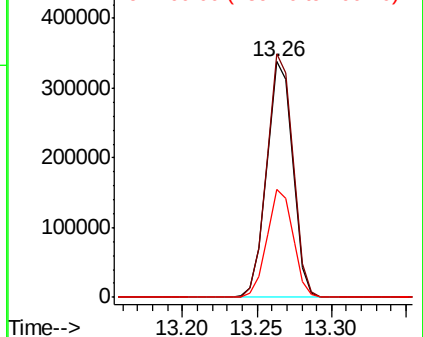
160 45.7 36.5 54.7



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



#42

2,4,6-Tribromophenol

Concen: 27.205 ng

RT: 14.56 min Scan# 2120

Delta R.T. -0.00 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

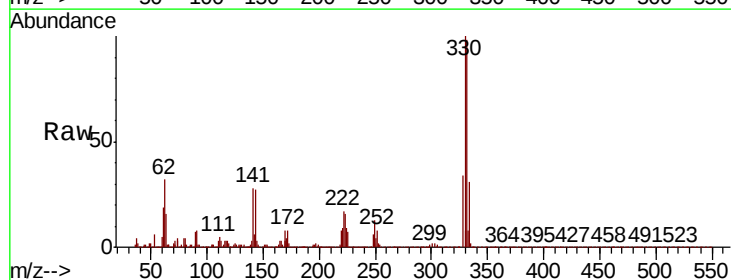
Tgt Ion:330 Resp: 132336

Ion Ratio Lower Upper

330 100

332 96.1 78.3 117.5

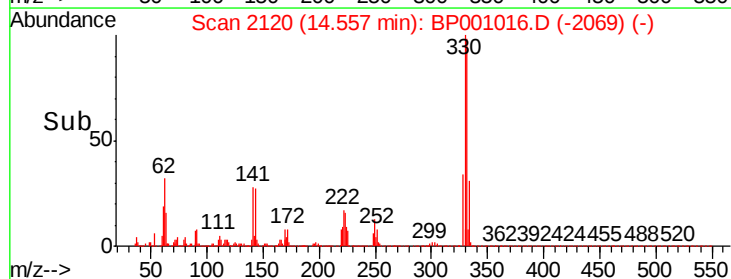
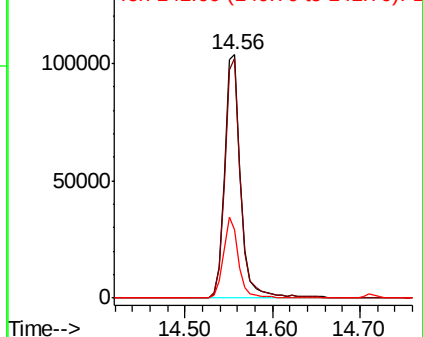
141 31.4 25.0 37.4

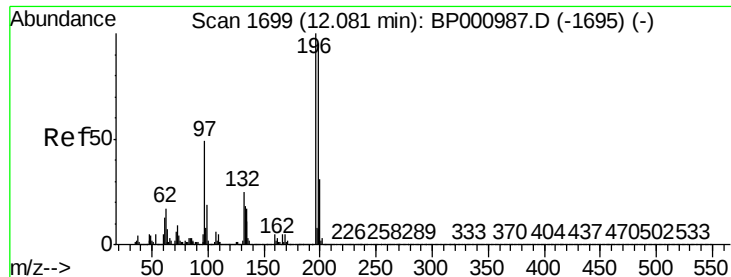


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

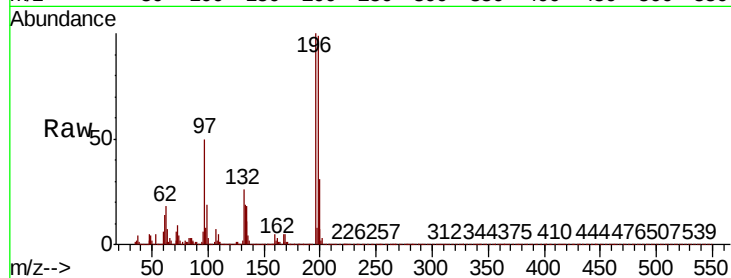




#44  
2,4,5-Trichlorophenol  
Concen: 25.751 ng  
RT: 12.07 min Scan# 1698  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

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

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 196   | Resp: | 225237 |
| Ion      | Ratio | Lower | Upper  |
| 196      | 100   |       |        |
| 198      | 98.9  | 76.3  | 114.5  |
| 97       | 50.2  | 39.1  | 58.7   |
| 132      | 25.6  | 20.6  | 30.8   |



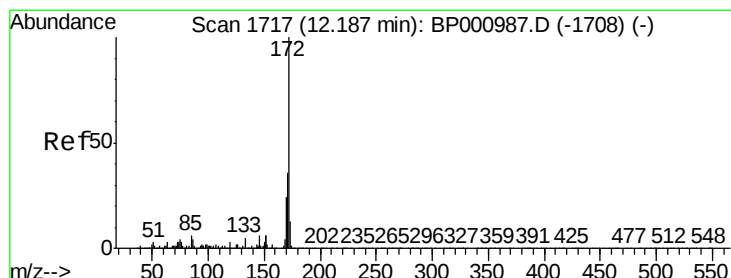
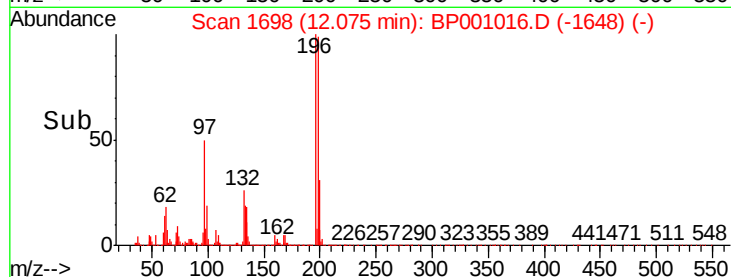
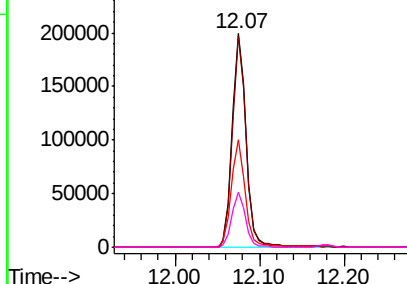
Abundance

Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

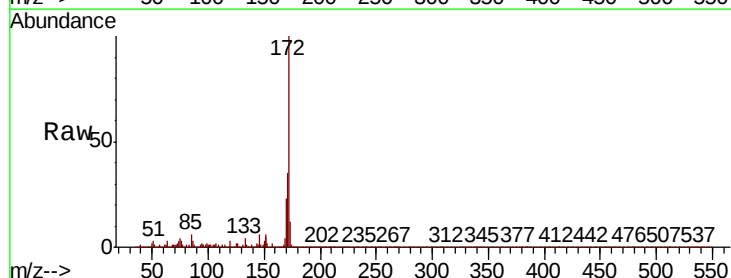
Ion 97.00 (96.70 to 97.70): BP0

Ion 132.00 (131.70 to 132.70): E



#45  
2-Fluorobiphenyl  
Concen: 19.682 ng  
RT: 12.18 min Scan# 1716  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 532506 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 35.1  | 28.5  | 42.7   |
| 170      | 23.3  | 18.9  | 28.3   |

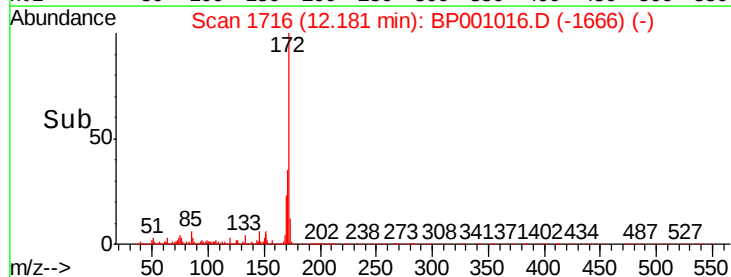
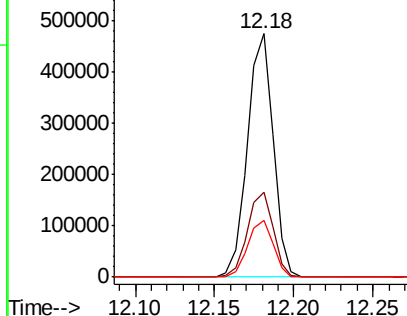


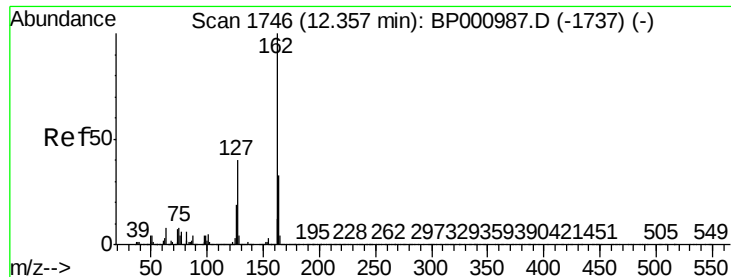
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

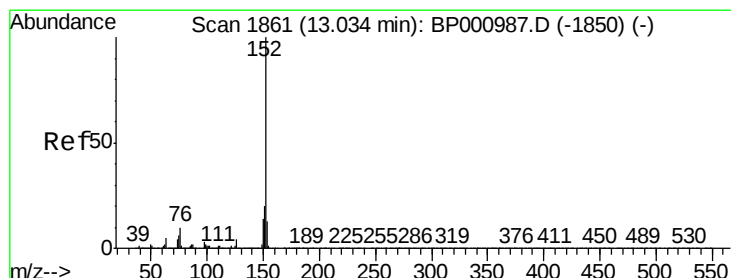
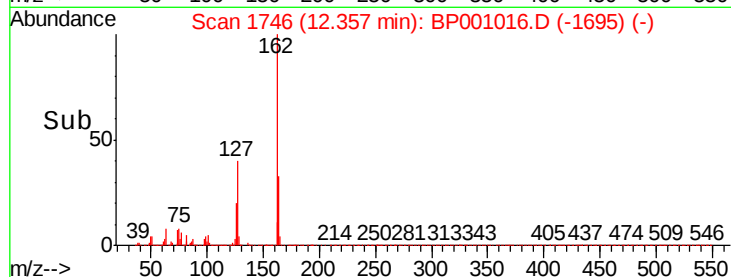
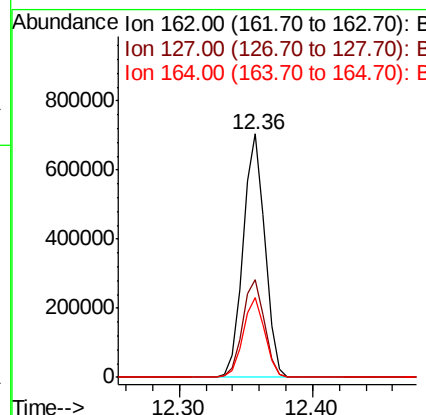
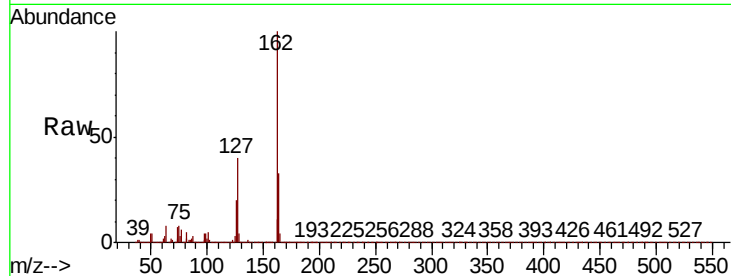




#47  
2-Chloronaphthalene  
Concen: 32.343 ng  
RT: 12.36 min Scan# 1746  
Delta R.T. -0.00 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

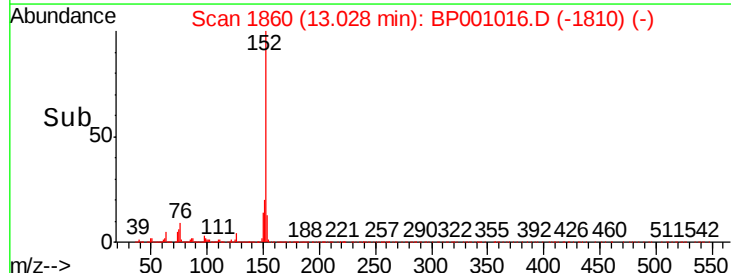
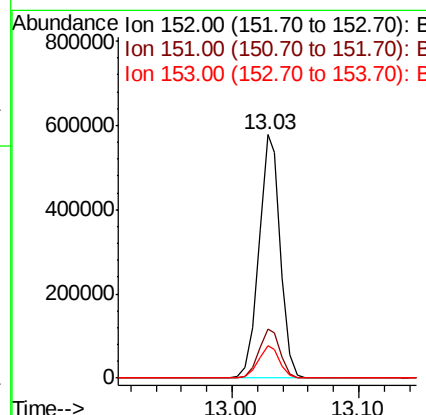
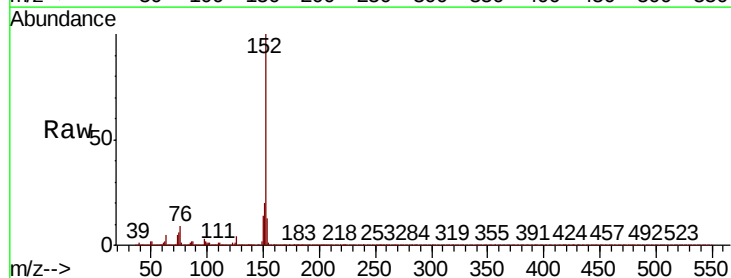
Instrument :  
BNA\_P  
ClientSampleId :  
PT-BNA-SOILD

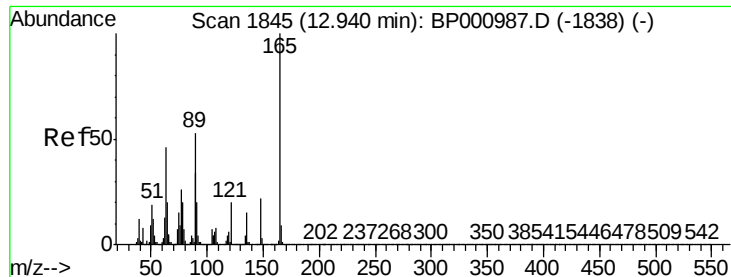
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 127     | 40.0  | 32.1  | 48.1  |
| 164     | 32.6  | 26.1  | 39.1  |



#49  
Acenaphthylene  
Concen: 18.138 ng  
RT: 13.03 min Scan# 1860  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 16.0  | 24.0  |
| 153     | 13.5  | 10.6  | 16.0  |

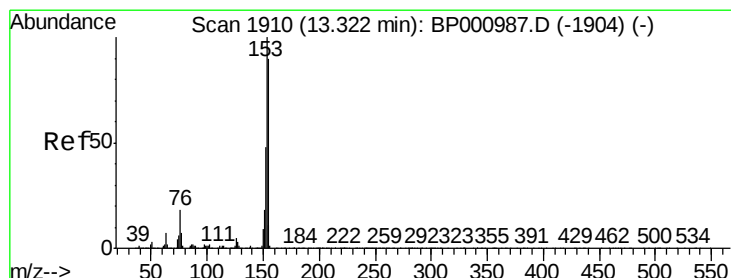
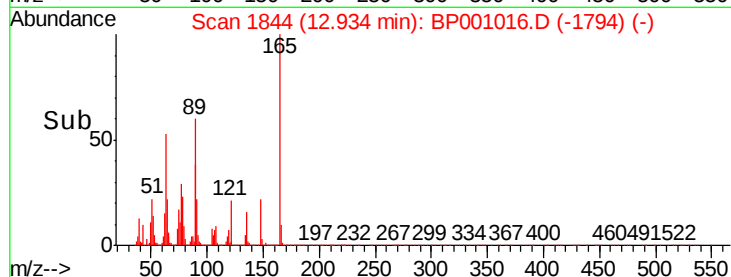
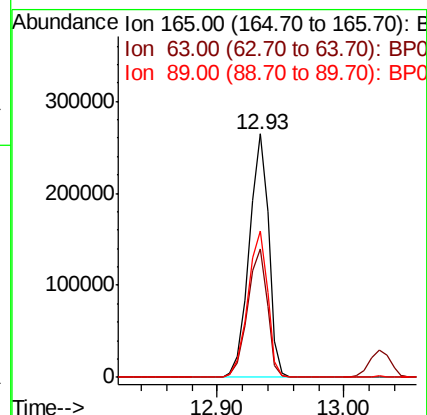
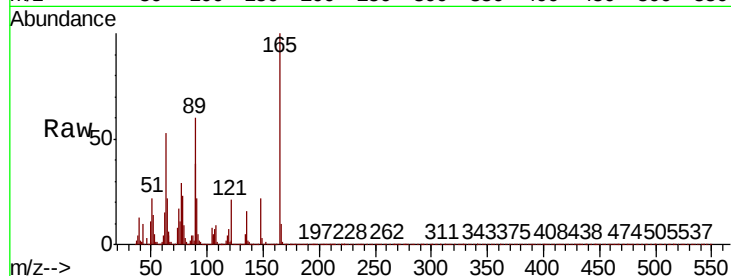




#51  
2,6-Dinitrotoluene  
Concen: 44.467 ng  
RT: 12.93 min Scan# 1844  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

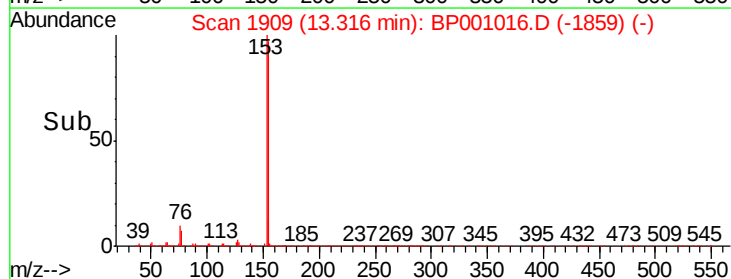
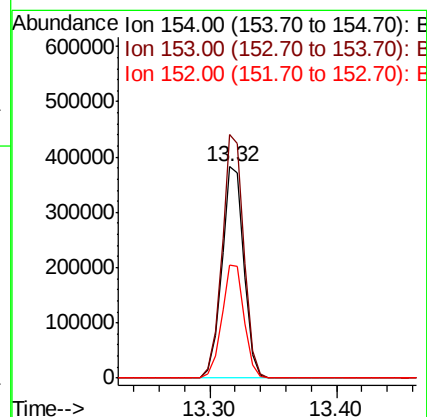
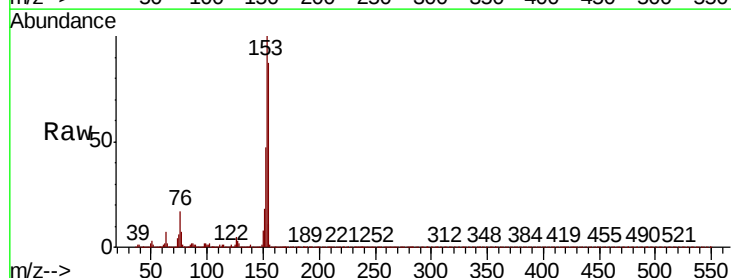
Instrument :  
BNA\_P  
ClientSampleId :  
PT-BNA-SOILD

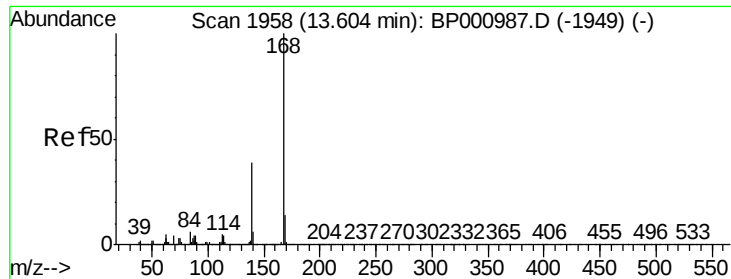
Tot Ion:165 Resp: 279477  
Ion Ratio Lower Upper  
165 100  
63 52.7 36.7 55.1  
89 60.0 42.3 63.5



#52  
Acenaphthene  
Concen: 20.681 ng  
RT: 13.32 min Scan# 1909  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

Tgt Ion:154 Resp: 461231  
Ion Ratio Lower Upper  
154 100  
153 115.1 88.9 133.3  
152 53.6 42.4 63.6





#55

Dibenzofuran

Concen: 22.349 ng

RT: 13.60 min Scan# 1958

Delta R.T. -0.00 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Instrument :

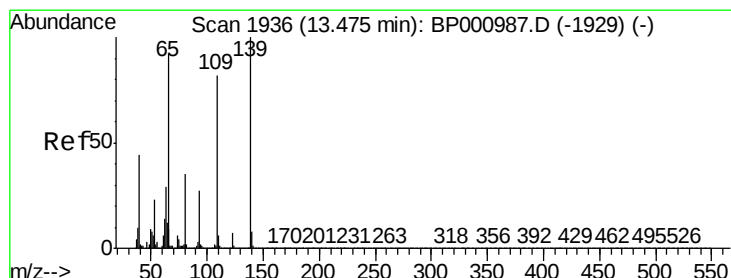
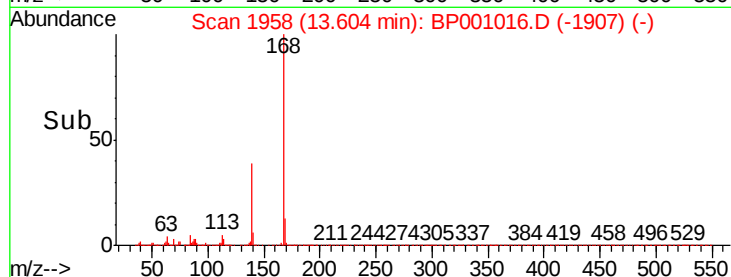
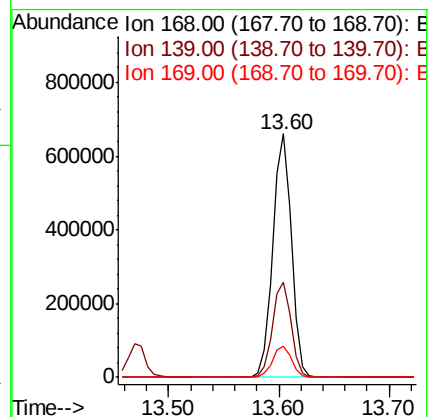
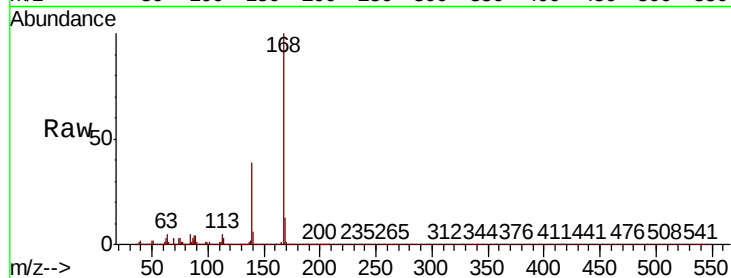
BNA\_P

ClientSampleId :

PT-BNA-SOILDL

Tot Ion:168 Resp: 778520

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 168 | 100   |       |       |
| 139 | 39.0  | 30.9  | 46.3  |
| 169 | 12.8  | 10.9  | 16.3  |



#56

4-Nitrophenol

Concen: 22.548 ng

RT: 13.47 min Scan# 1935

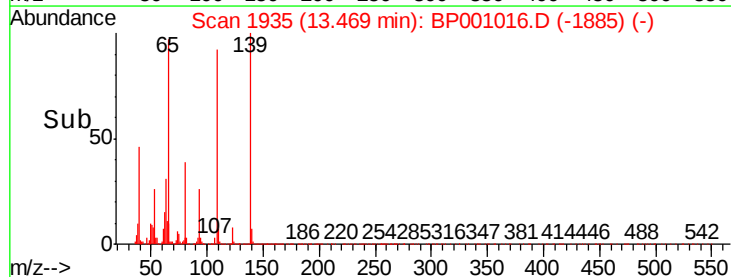
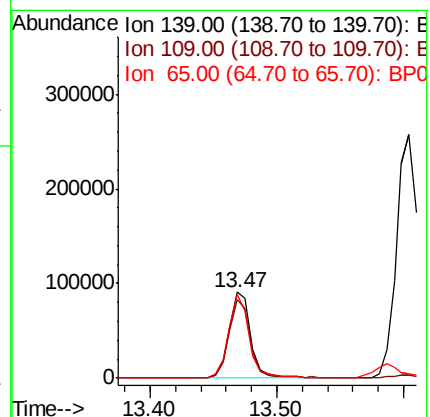
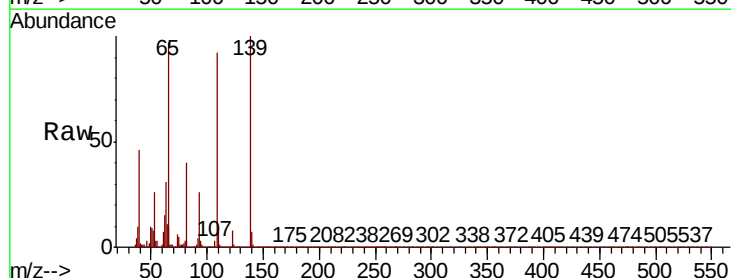
Delta R.T. -0.01 min

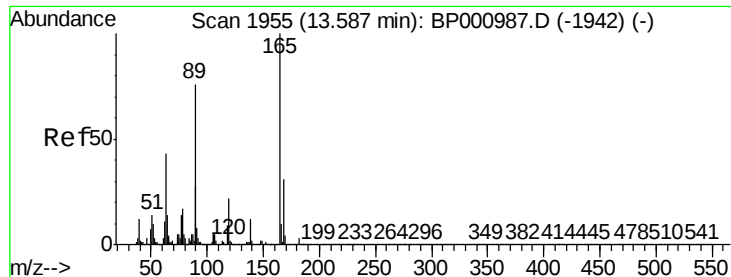
Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Tgt Ion:139 Resp: 107491

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 139 | 100   |       |       |
| 109 | 91.6  | 61.6  | 101.6 |
| 65  | 96.7  | 72.0  | 112.0 |

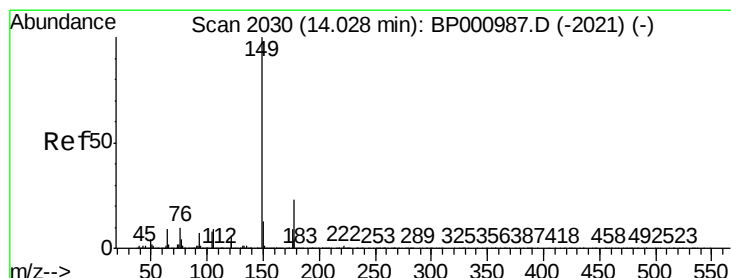
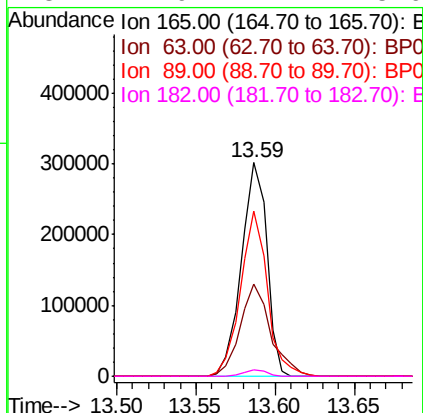
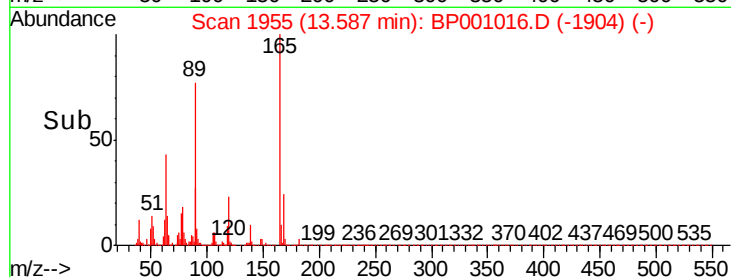
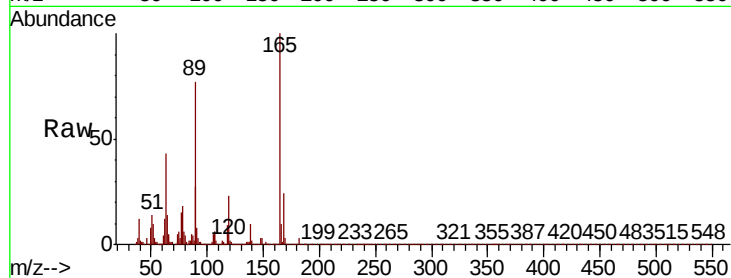




#57  
2,4-Dinitrotoluene  
Concen: 42.511 ng  
RT: 13.59 min Scan# 1955  
Delta R.T. -0.00 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

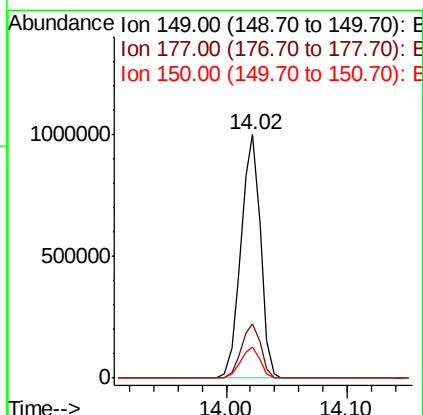
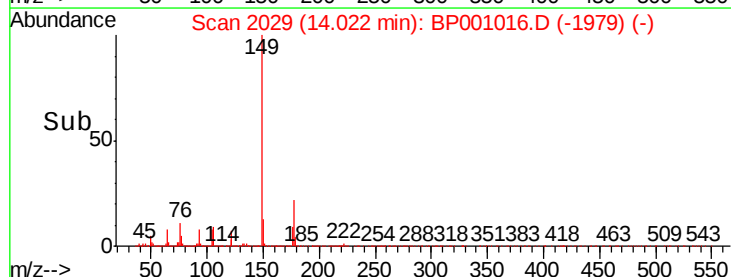
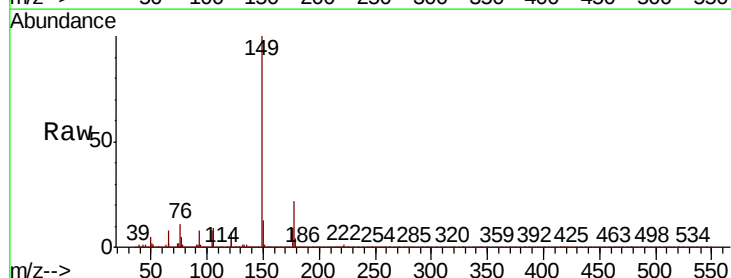
Instrument :  
BNA\_P  
ClientSampleId :  
PT-BNA-SOILD

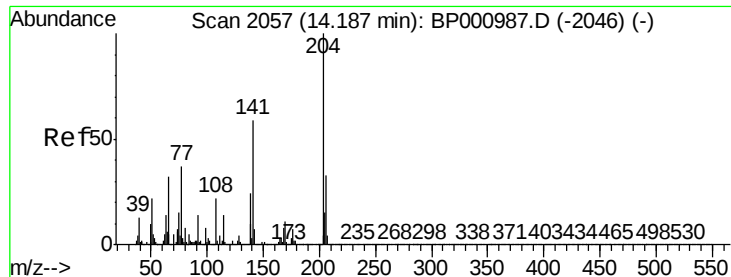
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 43.0  | 34.3  | 51.5  |
| 89      | 77.3  | 60.5  | 90.7  |
| 182     | 2.9   | 2.4   | 3.6   |



#60  
Diethylphthalate  
Concen: 37.291 ng  
RT: 14.02 min Scan# 2029  
Delta R.T. -0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 22.4  | 18.5  | 27.7  |
| 150     | 12.5  | 10.2  | 15.2  |

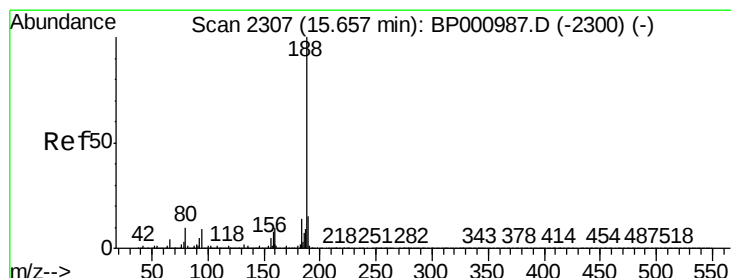
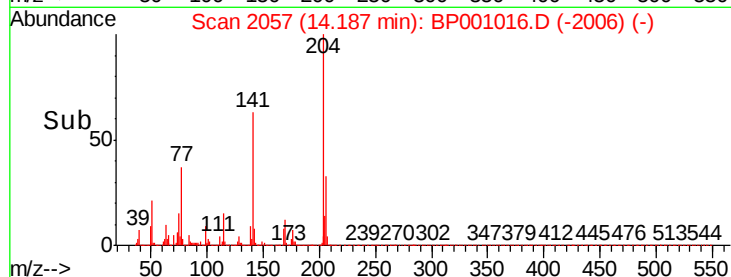
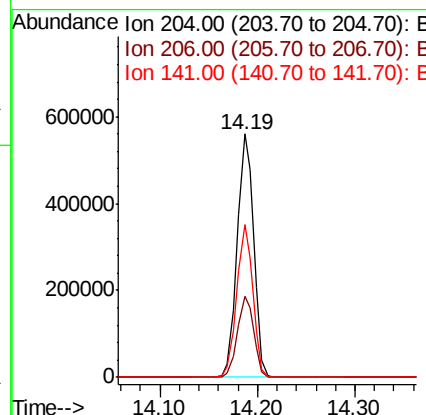
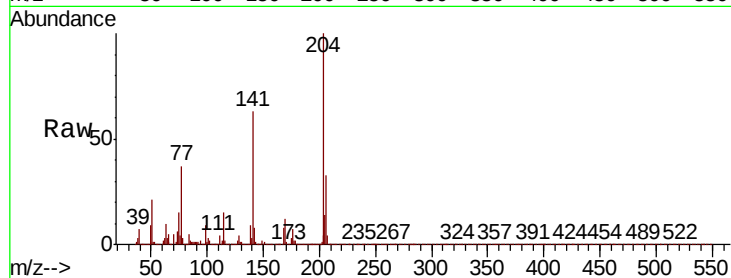




#61  
4-Chlorophenyl-phenylether  
Concen: 44.704 ng  
RT: 14.19 min Scan# 2057  
Delta R.T. -0.00 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

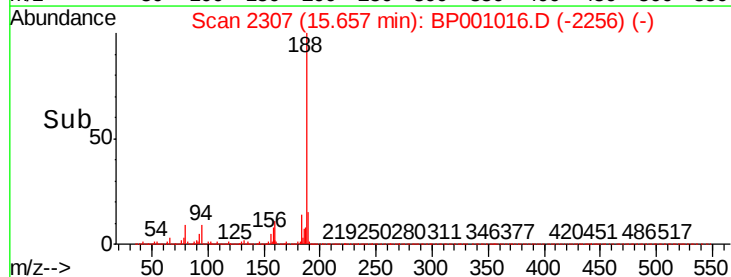
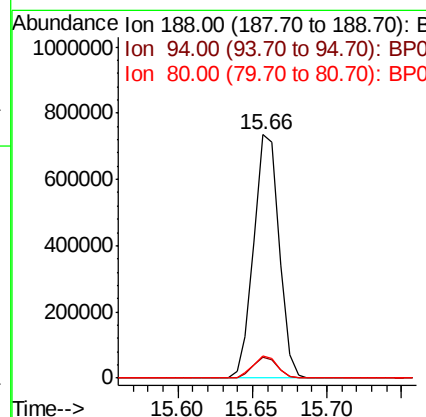
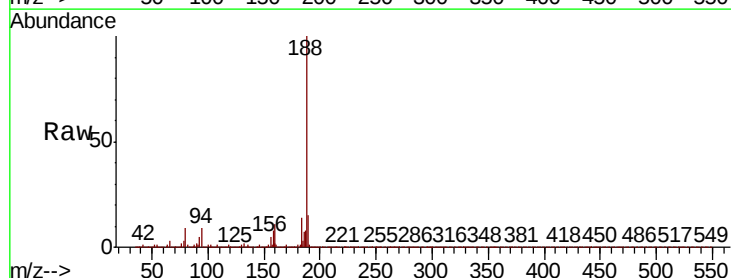
Instrument :  
BNA\_P  
ClientSampleId :  
PT-BNA-SOILD

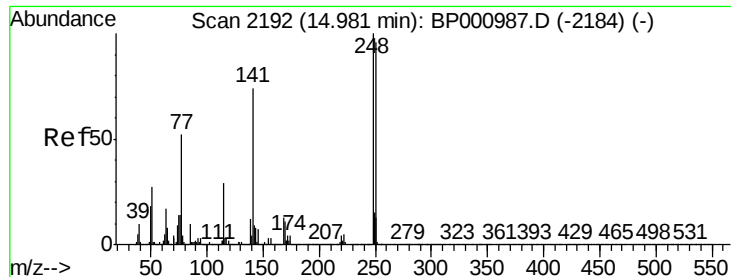
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 204     | 100   |       |       |
| 206     | 33.2  | 26.5  | 39.7  |
| 141     | 62.9  | 46.9  | 70.3  |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 15.66 min Scan# 2307  
Delta R.T. -0.00 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.8   | 7.4   | 11.2  |
| 80      | 9.2   | 7.9   | 11.9  |

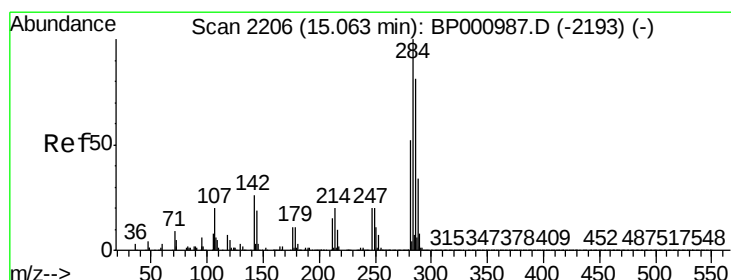
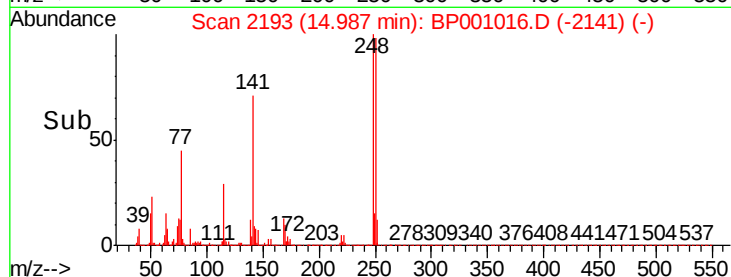
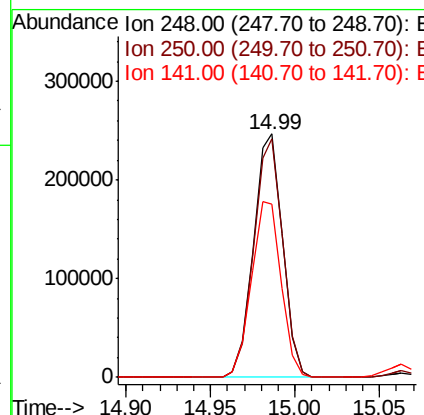
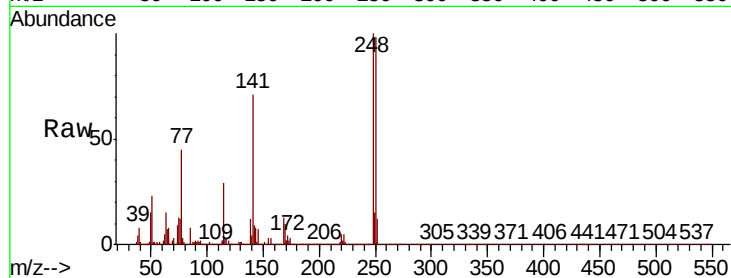




#67  
4-Bromophenyl-phenylether  
Concen: 29.271 ng  
RT: 14.99 min Scan# 2193  
Delta R.T. 0.01 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

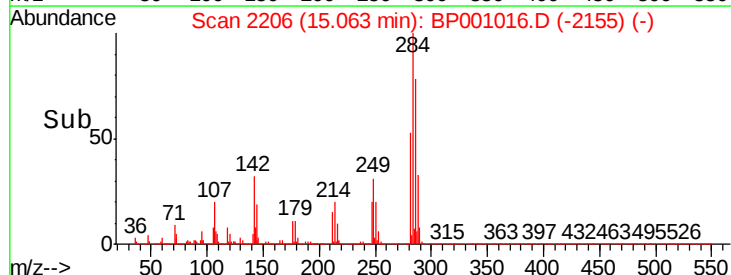
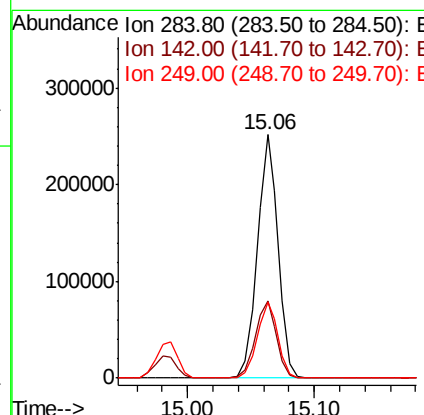
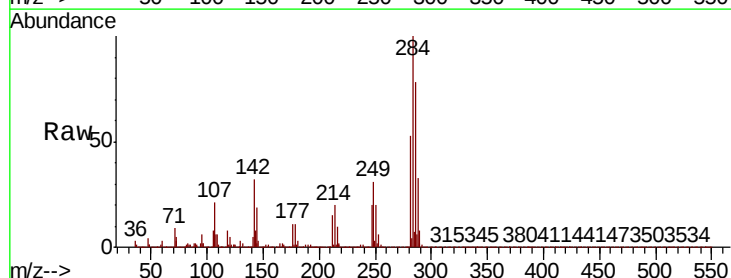
Instrument :  
BNA\_P  
ClientSampleId :  
PT-BNA-SOILD

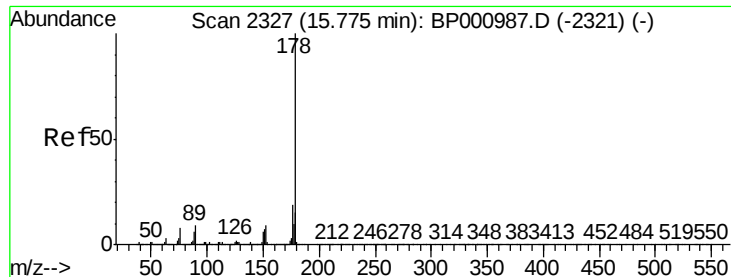
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 98.0  | 77.0  | 115.6 |
| 141     | 71.4  | 59.4  | 89.0  |



#68  
Hexachlorobenzene  
Concen: 24.361 ng  
RT: 15.06 min Scan# 2206  
Delta R.T. -0.00 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 31.9  | 25.8  | 38.8  |
| 249     | 31.3  | 25.4  | 38.0  |





#72

Anthracene

Concen: 13.531 ng

RT: 15.77 min Scan# 2327

Delta R.T. -0.00 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Instrument :

BNA\_P

ClientSampleId :

PT-BNA-SOILDL

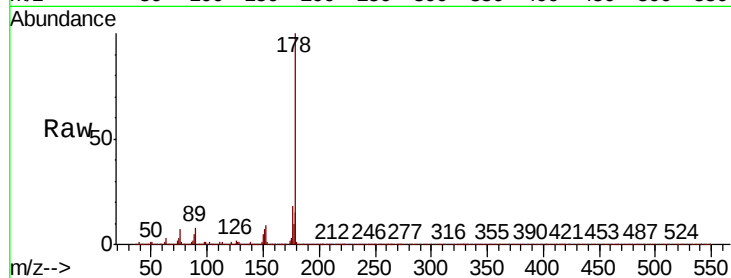
Tot Ion:178 Resp: 580223

Ion Ratio Lower Upper

178 100

176 18.4 15.1 22.7

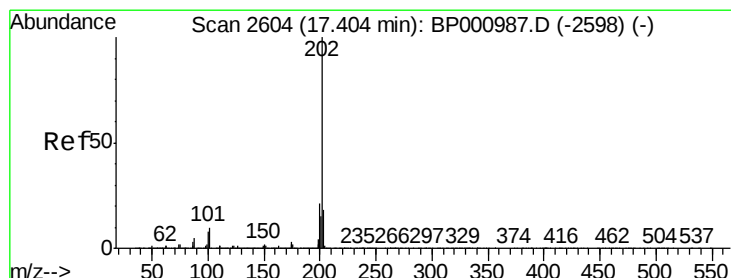
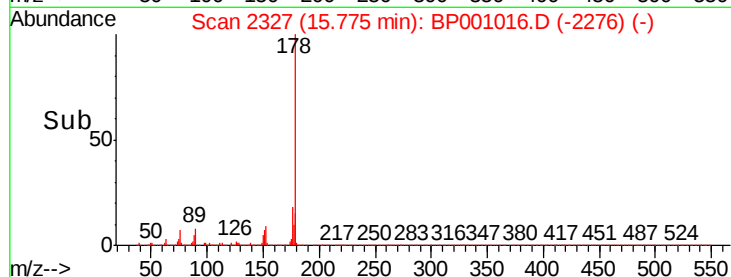
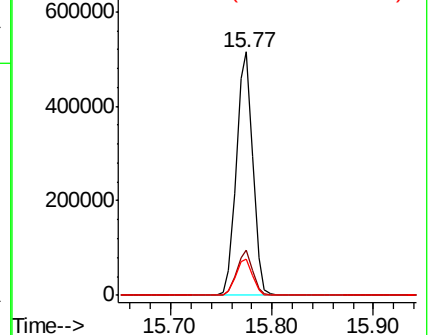
179 14.9 12.3 18.5



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



#75

Fluoranthene

Concen: 13.542 ng

RT: 17.40 min Scan# 2604

Delta R.T. -0.00 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

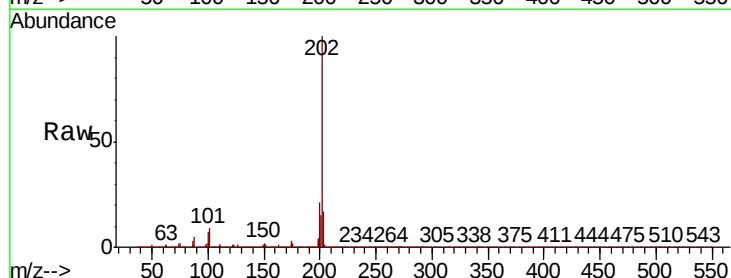
Tgt Ion:202 Resp: 672849

Ion Ratio Lower Upper

202 100

101 9.2 0.0 30.1

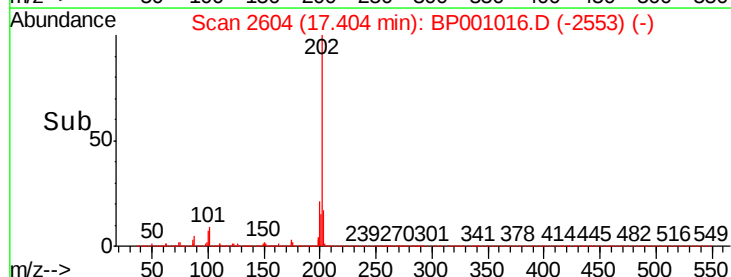
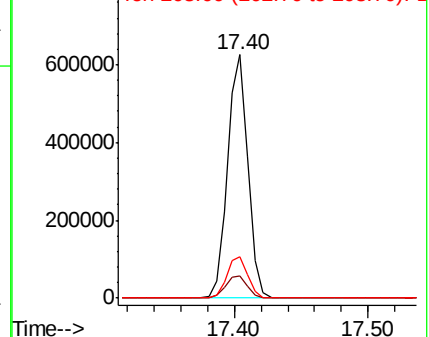
203 17.2 0.0 37.7

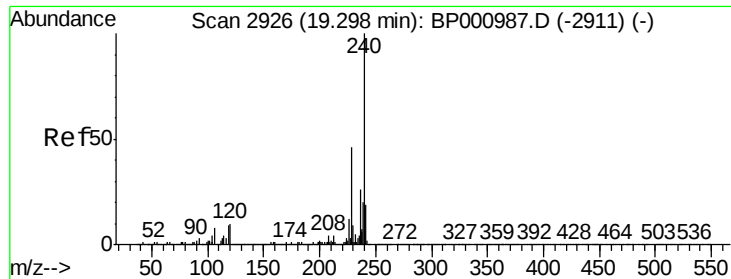


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

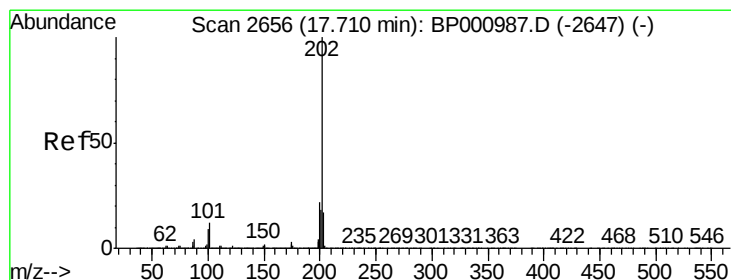
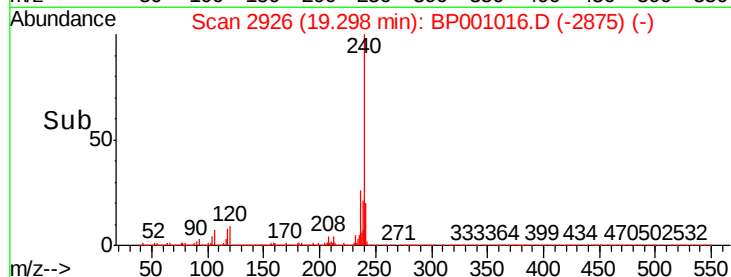
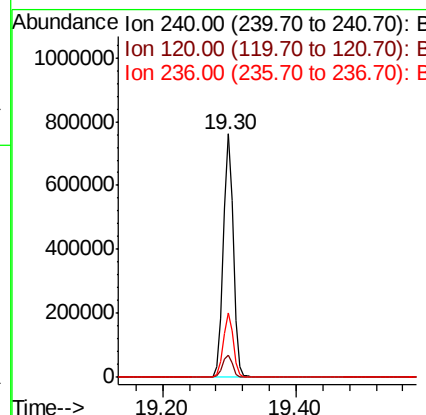
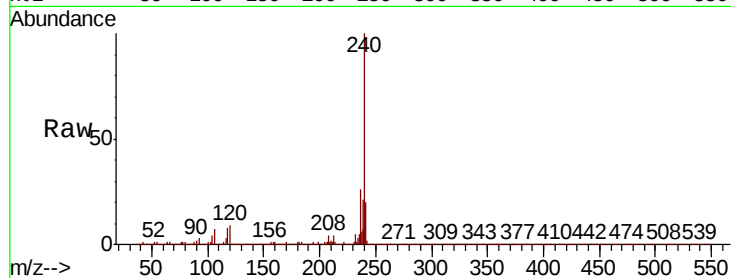




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 19.30 min Scan# 2926  
Delta R.T. -0.00 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

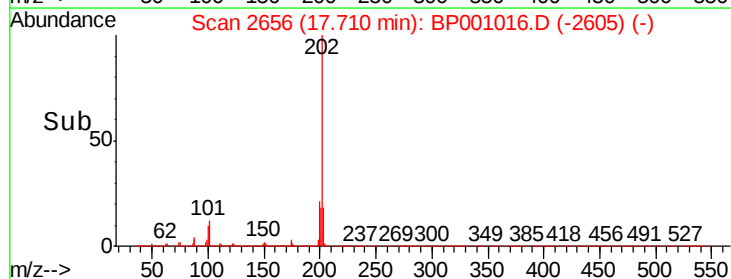
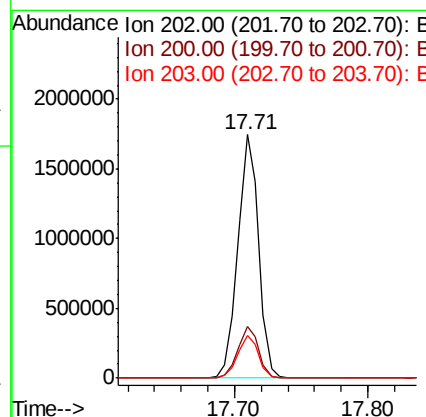
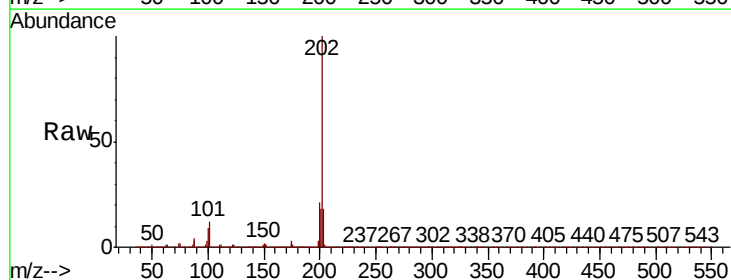
Instrument :  
BNA\_P  
ClientSampleId :  
PT-BNA-SOILDL

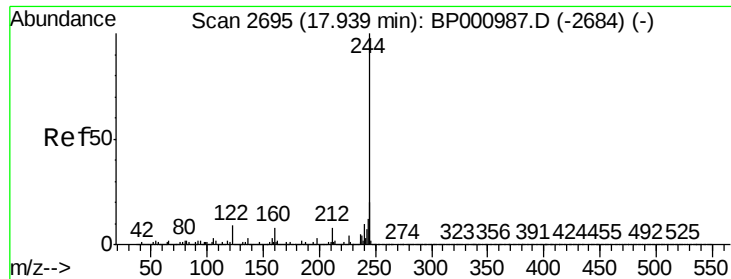
Tot Ion:240 Resp: 815269  
Ion Ratio Lower Upper  
240 100  
120 9.3 8.2 12.2  
236 26.4 20.5 30.7



#78  
Pyrene  
Concen: 32.877 ng  
RT: 17.71 min Scan# 2656  
Delta R.T. -0.00 min  
Lab File: BP001016.D  
Acq: 08 Nov 2019 16:22

Tgt Ion:202 Resp: 1894251  
Ion Ratio Lower Upper  
202 100  
200 21.3 17.2 25.8  
203 17.7 14.0 21.0

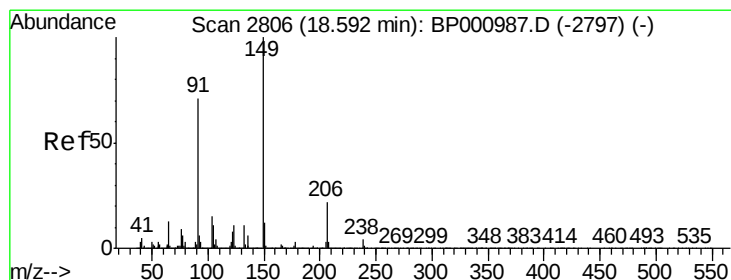
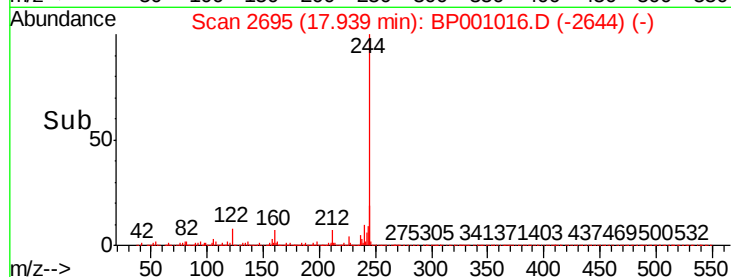
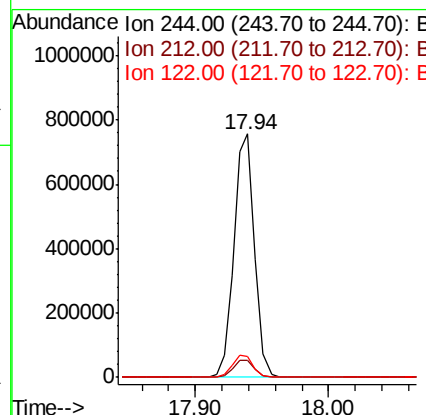
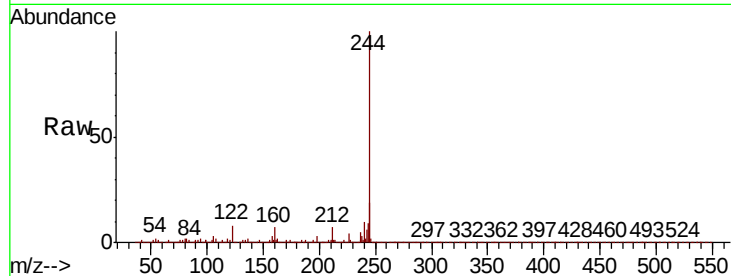




#79  
 Terphenyl-d14  
 Concen: 19.891 ng  
 RT: 17.94 min Scan# 2695  
 Delta R.T. -0.00 min  
 Lab File: BP001016.D  
 Acq: 08 Nov 2019 16:22

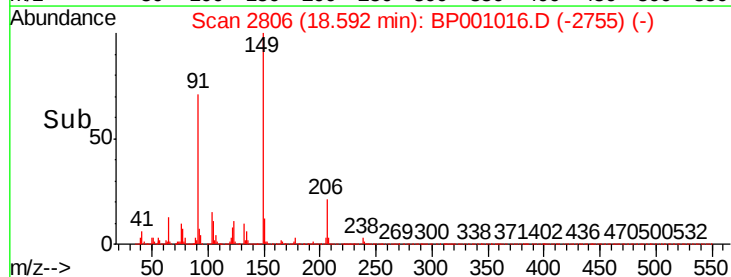
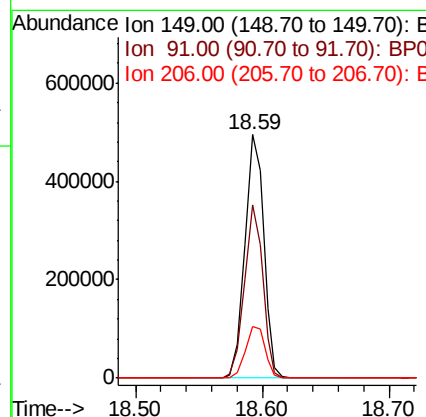
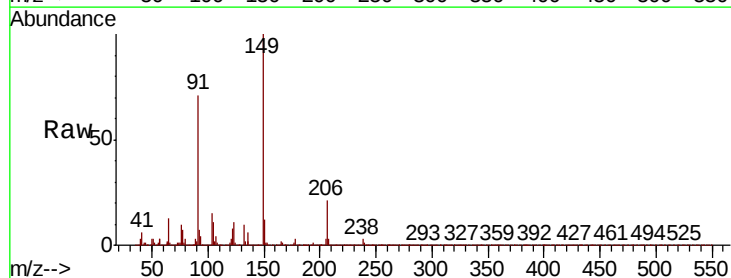
Instrument :  
 BNA\_P  
 ClientSampleId :  
 PT-BNA-SOILDL

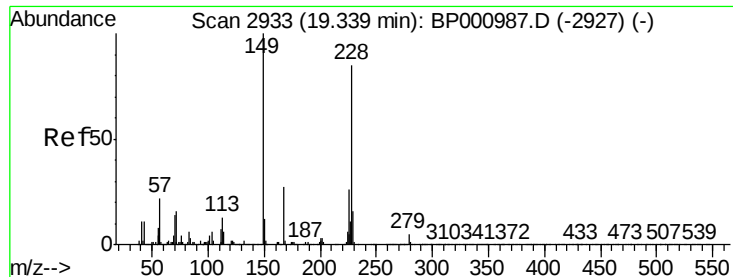
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 6.0   | 9.0   |
| 122     | 8.3   | 7.4   | 11.2  |



#80  
 Butylbenzylphthalate  
 Concen: 22.157 ng  
 RT: 18.59 min Scan# 2806  
 Delta R.T. -0.00 min  
 Lab File: BP001016.D  
 Acq: 08 Nov 2019 16:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 71.2  | 56.6  | 84.8  |
| 206     | 21.4  | 18.0  | 27.0  |





#84

Bis(2-ethylhexyl)phthalate

Concen: 50.673 ng

RT: 19.35 min Scan# 2934

Delta R.T. 0.01 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Instrument :

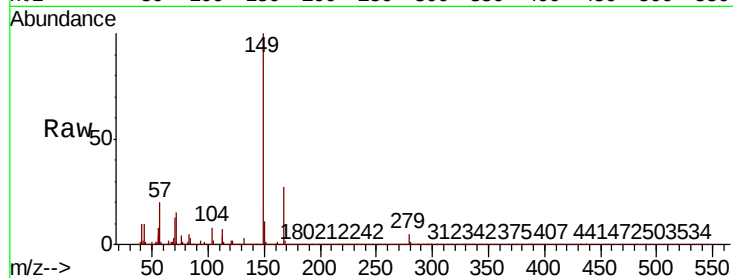
BNA\_P

ClientSampleId :

PT-BNA-SOILDL

Tot Ion:149 Resp: 1469861

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 27.4  | 21.4  | 32.2  |
| 279 | 4.9   | 3.7   | 5.5   |

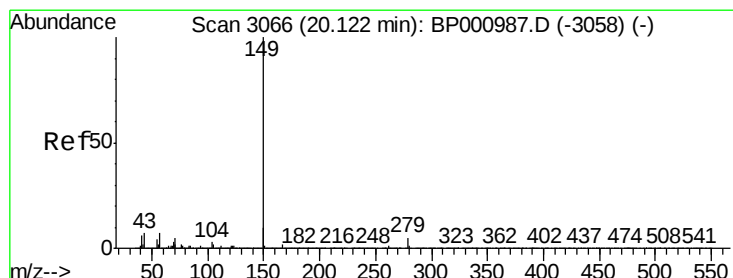
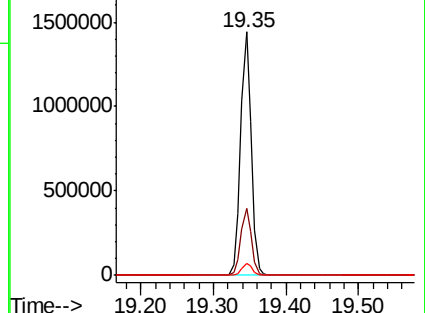
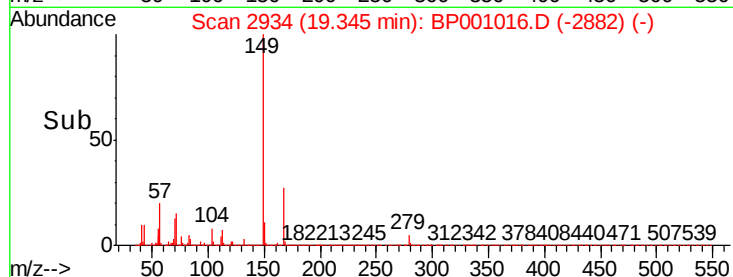


Abundance

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



#85

Di-n-octyl phthalate

Concen: 38.649 ng

RT: 20.13 min Scan# 3067

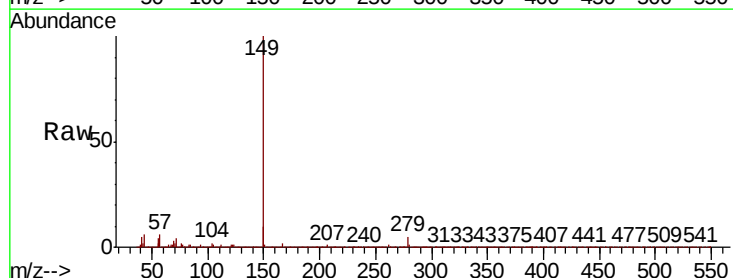
Delta R.T. 0.01 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Tgt Ion:149 Resp: 2018228

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 1.6   | 1.3   | 1.9   |
| 43  | 6.8   | 5.6   | 8.4   |

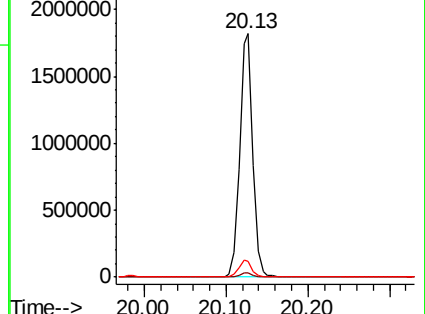
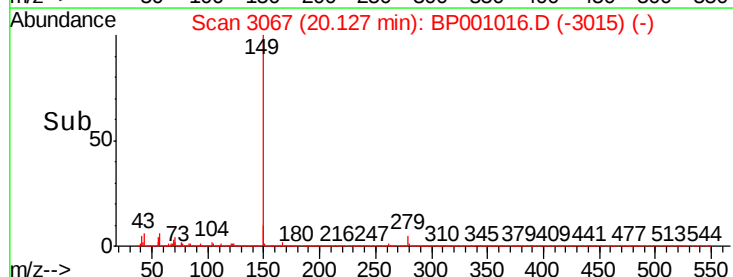


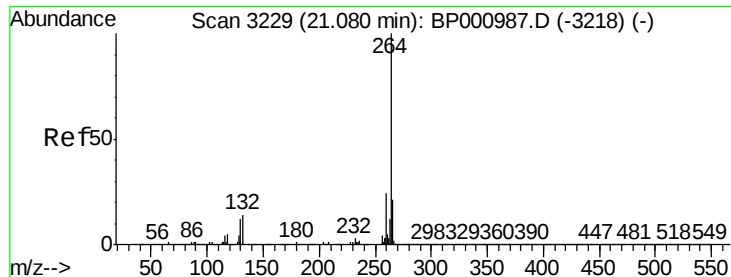
Abundance

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): BPO





#87

Pervlene-d12

Concen: 20.000 ng

RT: 21.08 min Scan# 3229

Delta R.T. -0.00 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Instrument :

BNA\_P

ClientSampleId :

PT-BNA-SOILDL

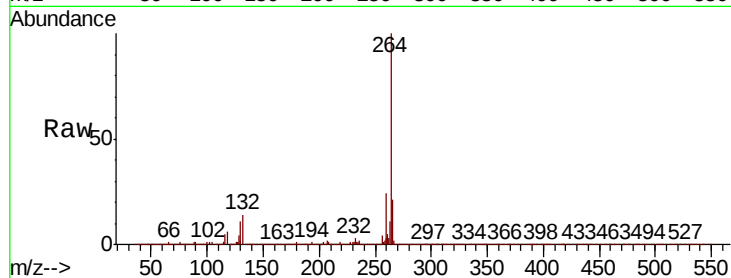
Tot Ion:264 Resp: 933107

Ion Ratio Lower Upper

264 100

260 23.9 18.8 28.2

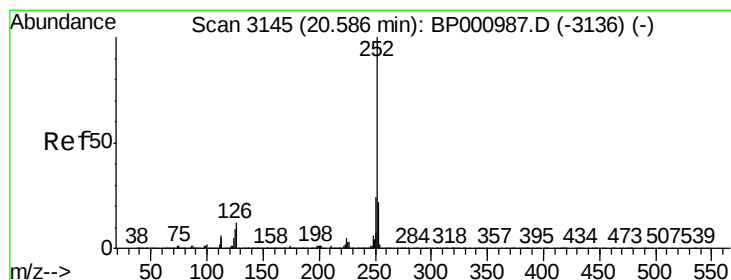
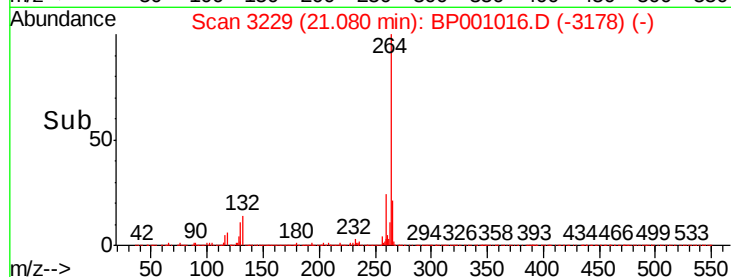
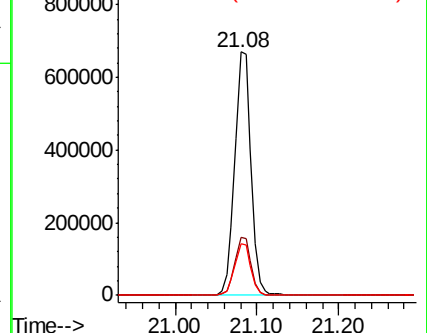
265 21.4 17.1 25.7



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



#88

Benzo(b)fluoranthene

Concen: 13.104 ng

RT: 20.59 min Scan# 3145

Delta R.T. -0.00 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

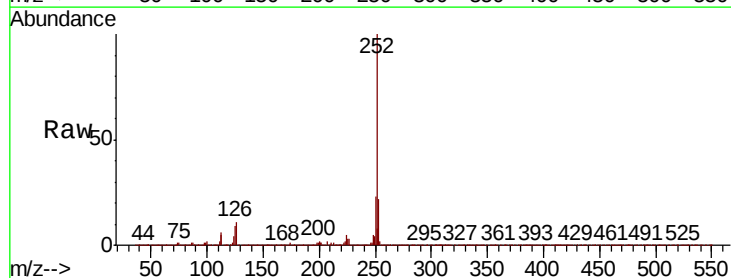
Tgt Ion:252 Resp: 728879

Ion Ratio Lower Upper

252 100

253 21.9 17.9 26.9

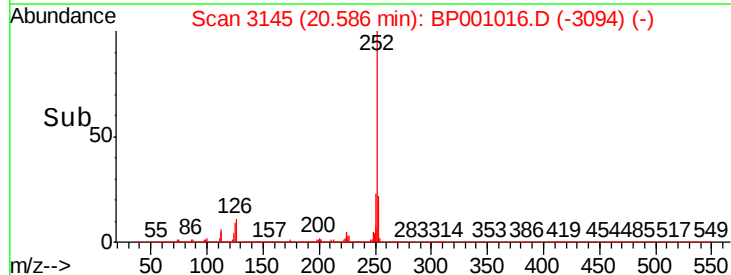
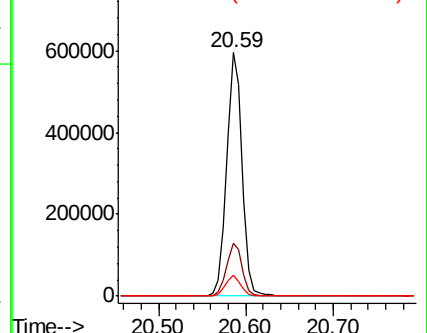
125 8.7 7.3 10.9

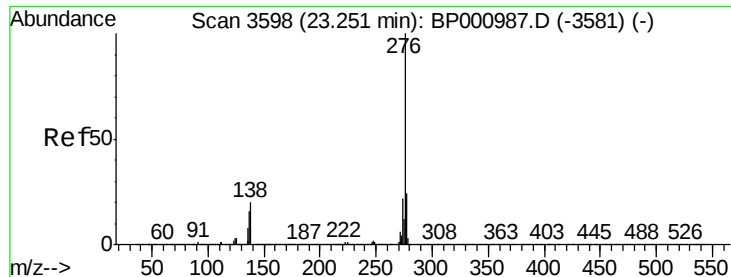


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Benzo(a,h,i)perylene

Concen: 17.621 ng

RT: 23.24 min Scan# 3597

Delta R.T. -0.01 min

Lab File: BP001016.D

Acq: 08 Nov 2019 16:22

Instrument :

BNA\_P

ClientSampleId :

PT-BNA-SOILDL

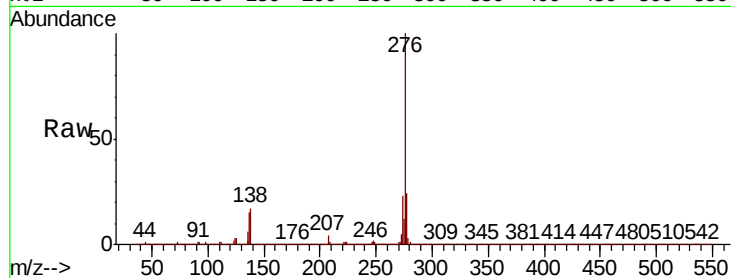
Tot Ion:276 Resp: 926166

Ion Ratio Lower Upper

276 100

277 23.5 19.0 28.4

138 16.8 15.7 23.5



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

