

Data Path : Z:\HPCHEM1\BNA F\Data\BF051916\RAW\  
 Data File : BF087210.D  
 Acq On : 20 May 2016 4:13  
 Operator : UM/SJ  
 Sample : H3136-01  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGS

Quant Time: May 20 09:57:34 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 17 16:47:59 2016  
 Response via : Initial Calibration

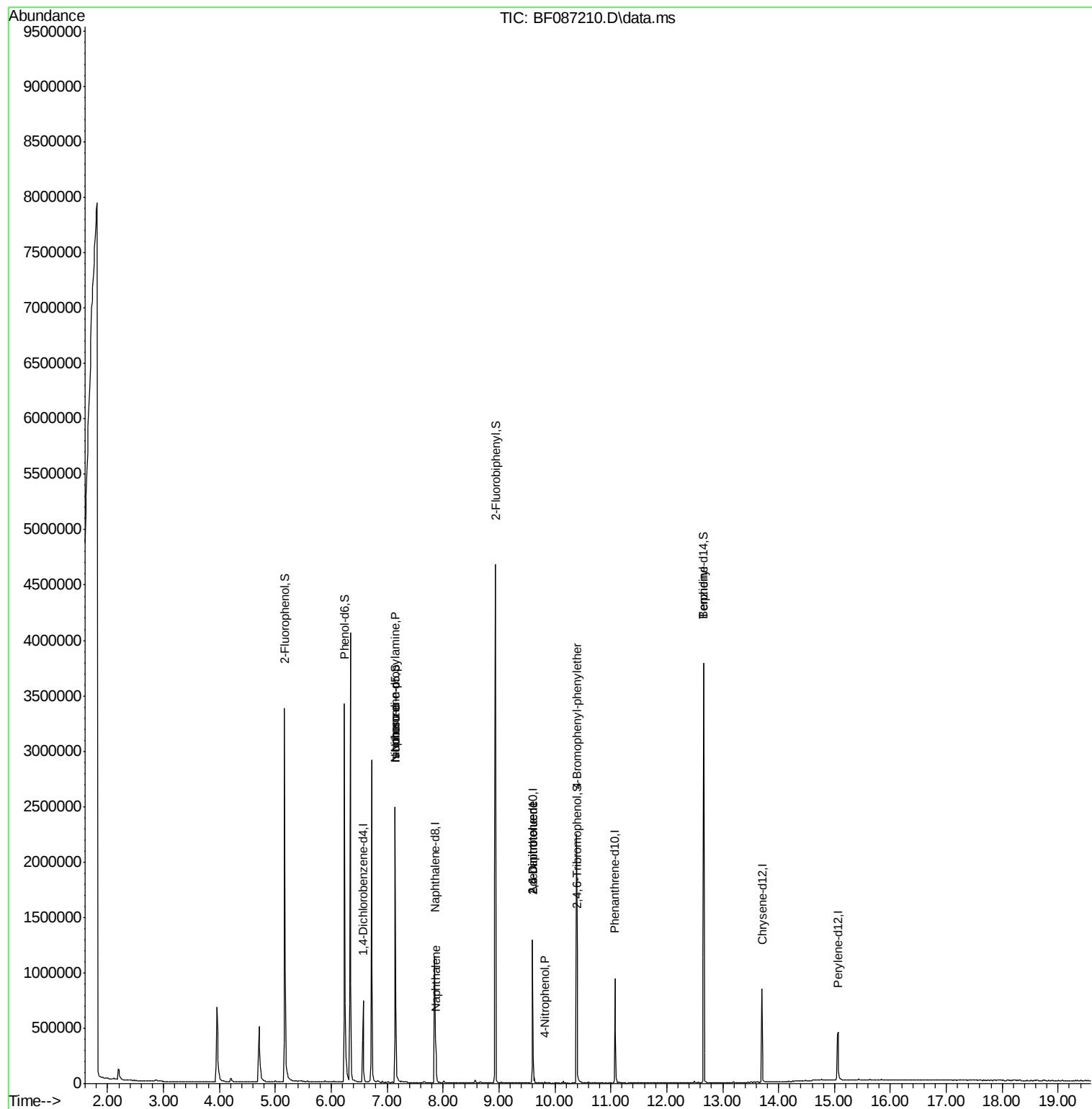
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)       |
|-------------------------------|--------|------|----------|-------|-------|----------------|
| -----                         |        |      |          |       |       |                |
| Internal Standards            |        |      |          |       |       |                |
| 1) 1,4-Dichlorobenzene-d4     | 6.570  | 152  | 123895   | 20.00 | ng    | -0.03          |
| 21) Naphthalene-d8            | 7.850  | 136  | 503313   | 20.00 | ng    | -0.05          |
| 38) Acenaphthene-d10          | 9.599  | 164  | 230272   | 20.00 | ng    | -0.05          |
| 63) Phenanthrene-d10          | 11.074 | 188  | 386897   | 20.00 | ng    | -0.05          |
| 75) Chrysene-d12              | 13.702 | 240  | 282636   | 20.00 | ng    | -0.06          |
| 86) Perylene-d12              | 15.063 | 264  | 238220   | 20.00 | ng    | -0.05          |
| System Monitoring Compounds   |        |      |          |       |       |                |
| 5) 2-Fluorophenol             | 5.164  | 112  | 907157   | 61.54 | ng    | -0.03          |
| 7) Phenol-d6                  | 6.239  | 99   | 1088494  | 55.05 | ng    | -0.05          |
| 23) Nitrobenzene-d5           | 7.142  | 82   | 812664   | 40.24 | ng    | -0.05          |
| 41) 2,4,6-Tribromophenol      | 10.399 | 330  | 324009   | 63.67 | ng    | -0.05          |
| 44) 2-Fluorobiphenyl          | 8.936  | 172  | 1433950  | 51.57 | ng    | -0.05          |
| 78) Terphenyl-d14             | 12.662 | 244  | 1100586  | 44.04 | ng    | -0.05          |
| Target Compounds              |        |      |          |       |       |                |
| 19) n-Nitroso-di-n-propyla... | 7.142  | 70   | 115052   | 15.31 | ng    | Qvalue<br># 72 |
| 25) Isophorone                | 7.142  | 82   | 725114   | 39.22 | ng    | # 68           |
| 31) Naphthalene               | 7.873  | 128  | 99539    | 4.05  | ng    | 99             |
| 50) 2,6-Dinitrotoluene        | 9.599  | 165  | 30347    | 7.96  | ng    | # 21           |
| 55) 4-Nitrophenol             | 9.816  | 139  | 3031     | 2.41  | ng    | # 14           |
| 56) 2,4-Dinitrotoluene        | 9.599  | 165  | 30347    | 6.21  | ng    | # 16           |
| 66) 4-Bromophenyl-phenylether | 10.388 | 248  | 18790    | 4.72  | ng    | # 1            |
| 76) Benzidine                 | 12.662 | 184  | 17447    | 2.60  | ng    | # 96           |
| -----                         |        |      |          |       |       |                |

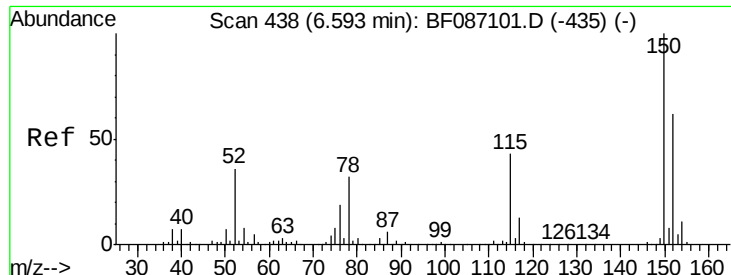
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\Data\BF051916\RAW\  
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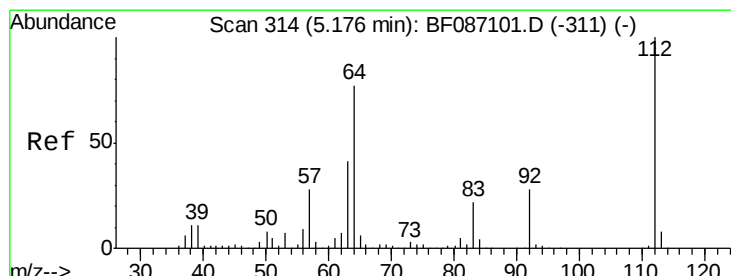
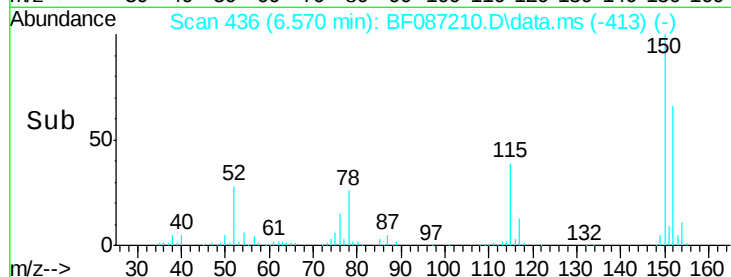
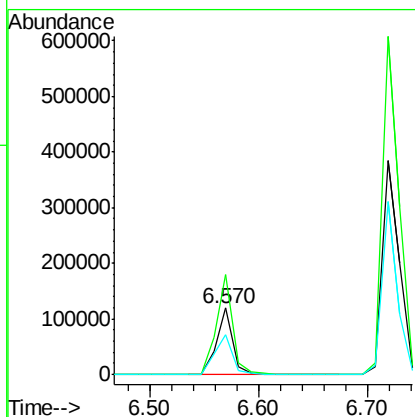
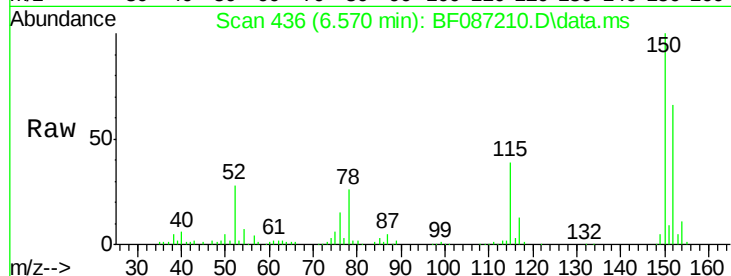




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.570 min Scan# 43  
 Delta R.T. -0.034 min  
 Lab File: BF087210.D  
 Acq: 20 May 2016 4:13

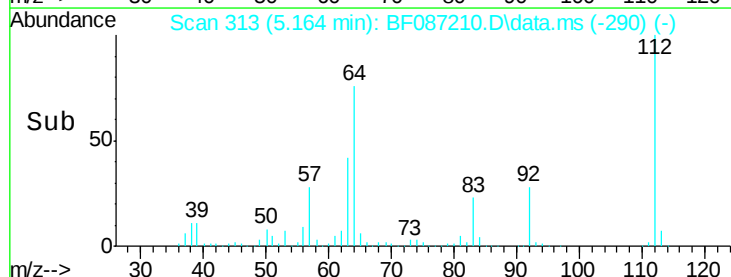
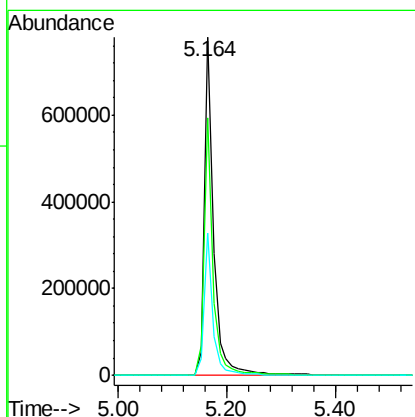
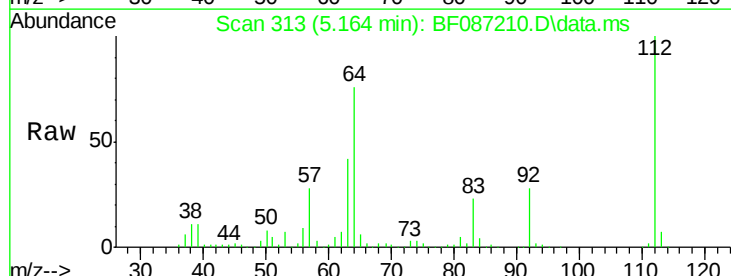
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGS

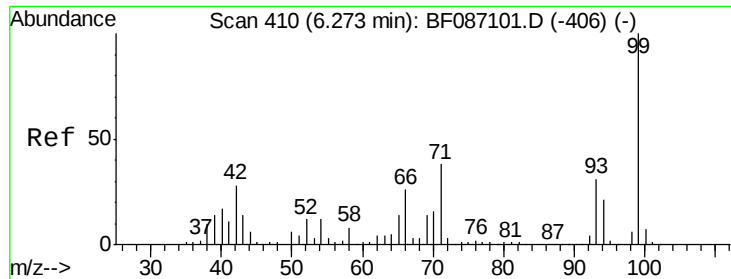
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.2 | 125.8 | 188.6 |
| 115     | 59.7  | 51.5  | 77.3  |



#5  
 2-Fluorophenol  
 Concen: 61.54 ng  
 RT: 5.164 min Scan# 313  
 Delta R.T. -0.034 min  
 Lab File: BF087210.D  
 Acq: 20 May 2016 4:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 76.0  | 52.1  | 78.1  |
| 63      | 42.1  | 25.7  | 38.5  |





#7

Phenol-d6

Concen: 55.05 ng

RT: 6.239 min Scan# 40

Delta R.T. -0.046 min

Lab File: BF087210.D

Acq: 20 May 2016 4:13

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGS

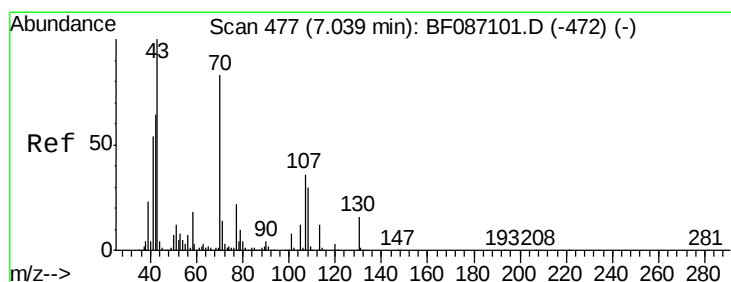
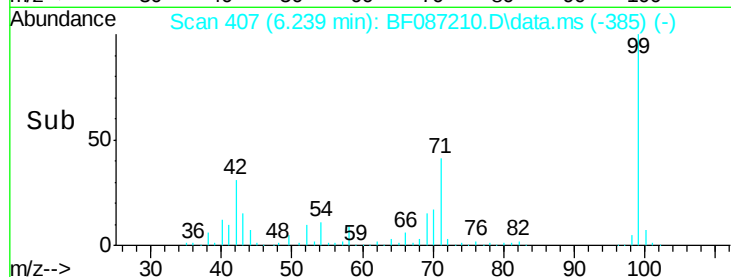
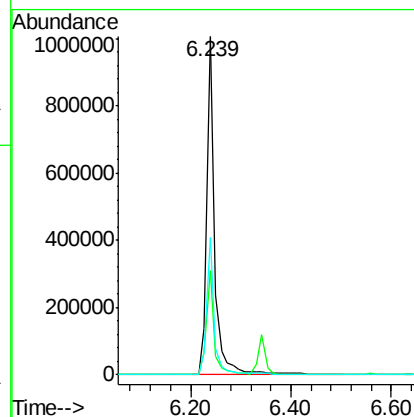
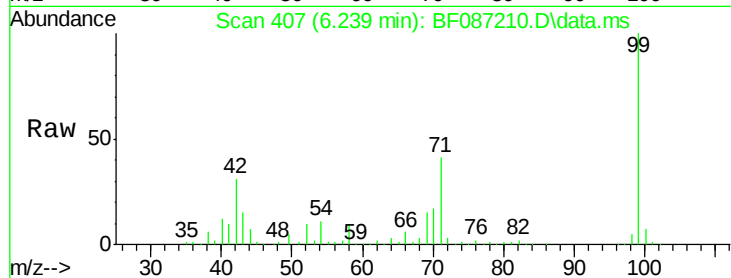
Tot Ion: 99 Resp: 1088494

Ion Ratio Lower Upper

99 100

42 30.9 13.6 20.4#

71 40.6 24.6 36.8#



#19

n-Nitroso-di-n-propylamine

Concen: 15.31 ng

RT: 7.142 min Scan# 486

Delta R.T. 0.092 min

Lab File: BF087210.D

Acq: 20 May 2016 4:13

Tgt Ion: 70 Resp: 115052

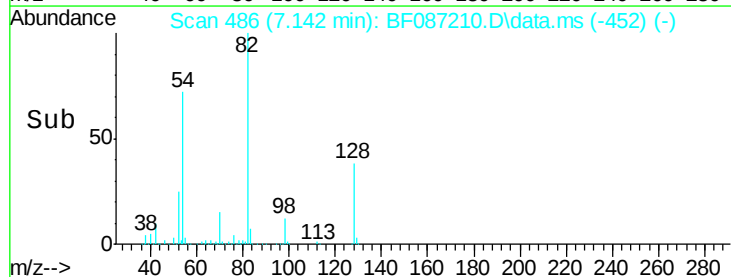
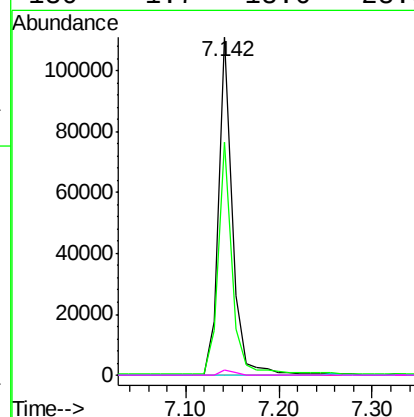
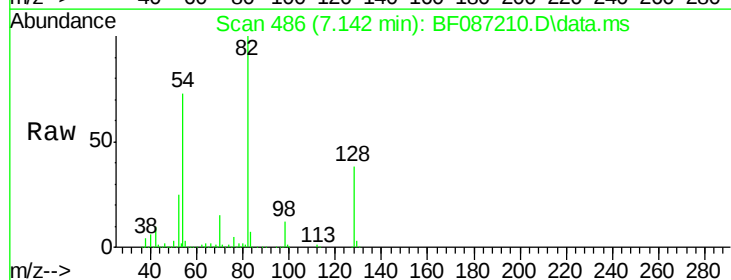
Ion Ratio Lower Upper

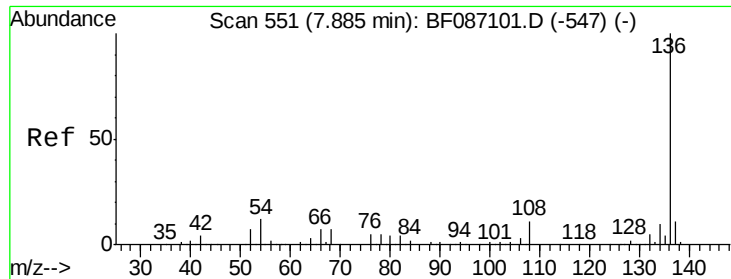
70 100

42 68.8 43.1 64.7#

101 0.0 8.1 12.1#

130 1.7 18.6 28.0#

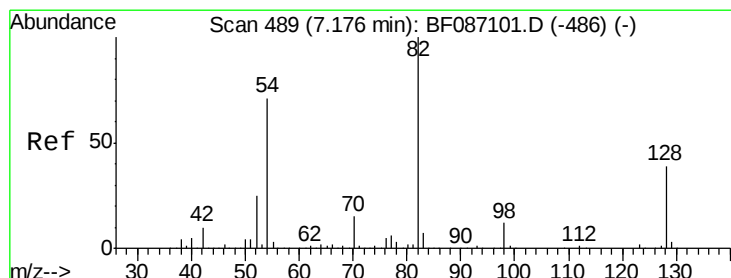
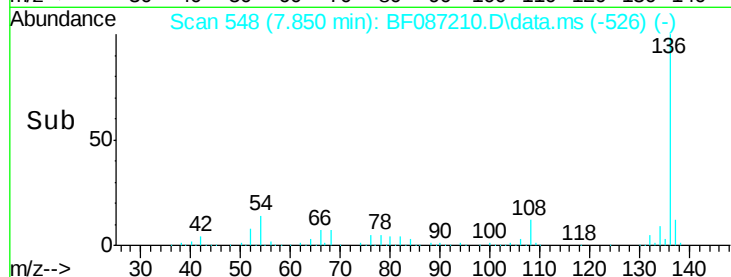
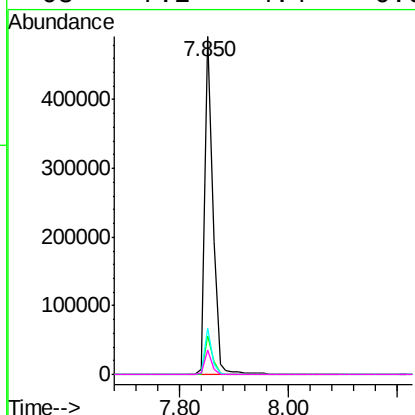
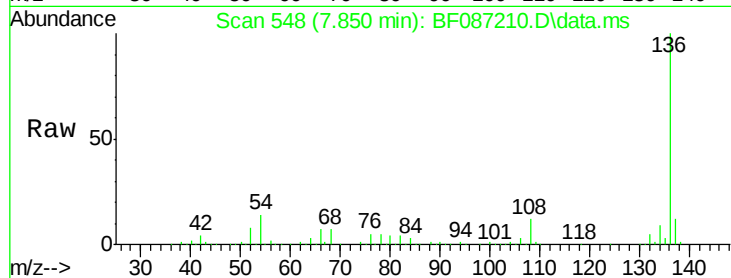




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.850 min Scan# 54  
Delta R.T. -0.046 min  
Lab File: BF087210.D  
Acq: 20 May 2016 4:13

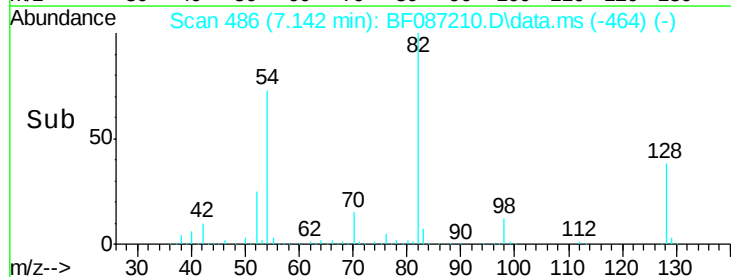
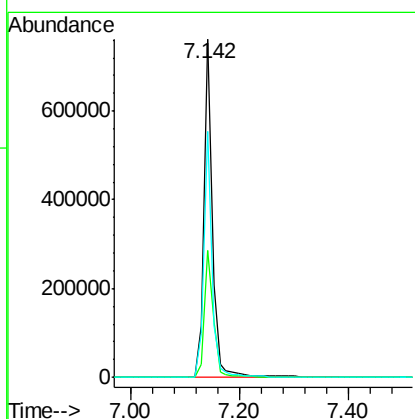
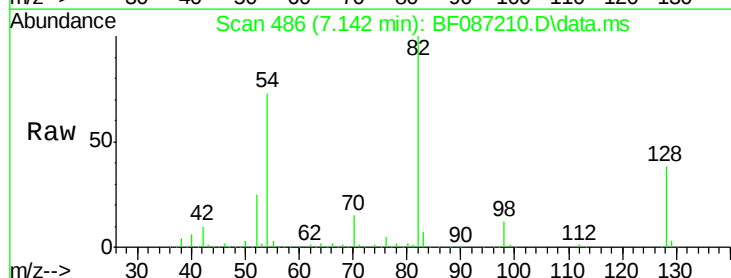
Instrument :  
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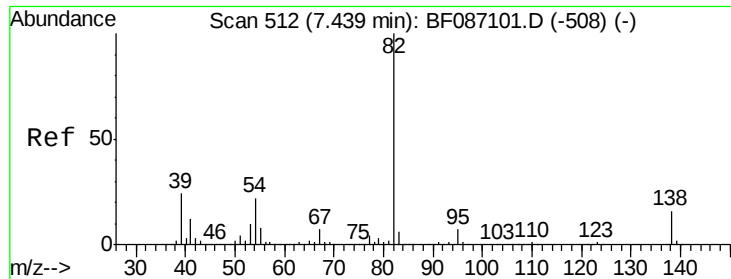
Tot Ion:136 Resp: 503313  
Ion Ratio Lower Upper  
136 100  
137 11.6 8.8 13.2  
54 13.8 5.0 7.4#  
68 7.2 4.4 6.6#



#23  
Nitrobenzene-d5  
Concen: 40.24 ng  
RT: 7.142 min Scan# 486  
Delta R.T. -0.046 min  
Lab File: BF087210.D  
Acq: 20 May 2016 4:13

Tgt Ion: 82 Resp: 812664  
Ion Ratio Lower Upper  
82 100  
128 37.7 40.6 61.0#  
54 72.6 38.1 57.1#





#25

Isophorone

Concen: 39.22 ng

RT: 7.142 min Scan# 48

Delta R.T. -0.309 min

Lab File: BF087210.D

Acq: 20 May 2016 4:13

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGS

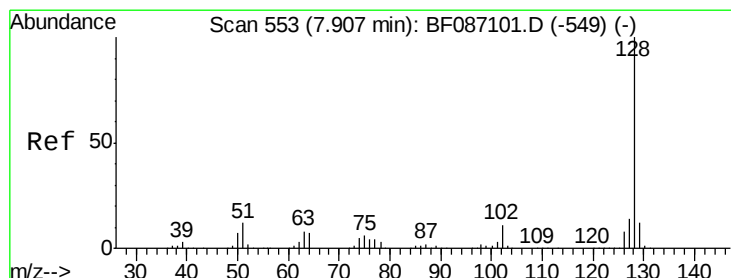
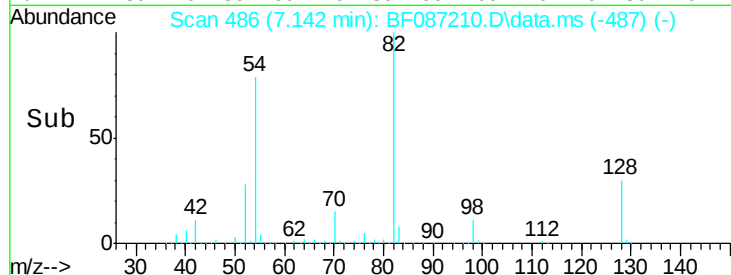
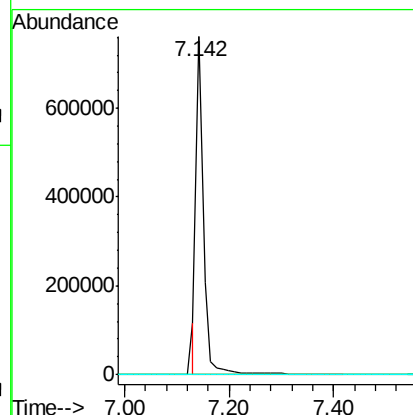
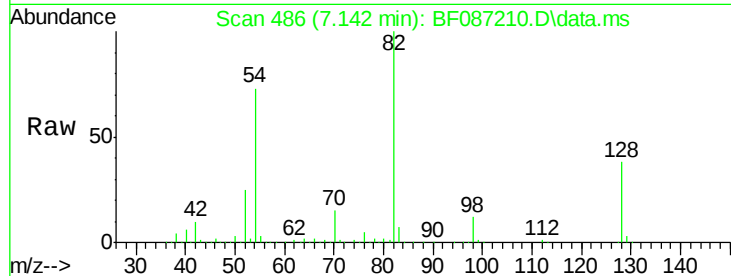
Tot Ion: 82 Resp: 725114

Ion Ratio Lower Upper

82 100

95 0.0 5.1 7.7#

138 0.0 12.4 18.6#



#31

Naphthalene

Concen: 4.05 ng

RT: 7.873 min Scan# 550

Delta R.T. -0.046 min

Lab File: BF087210.D

Acq: 20 May 2016 4:13

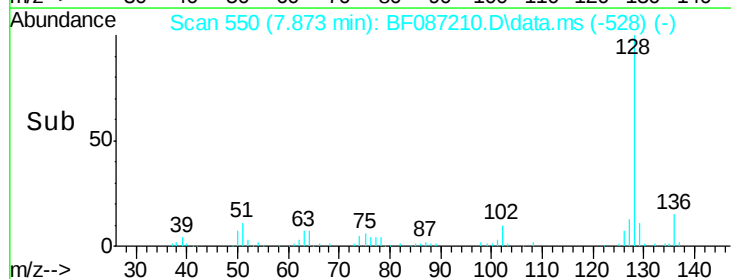
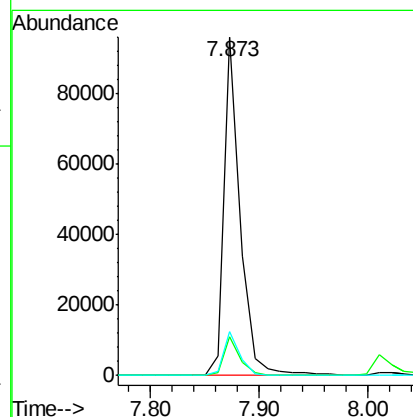
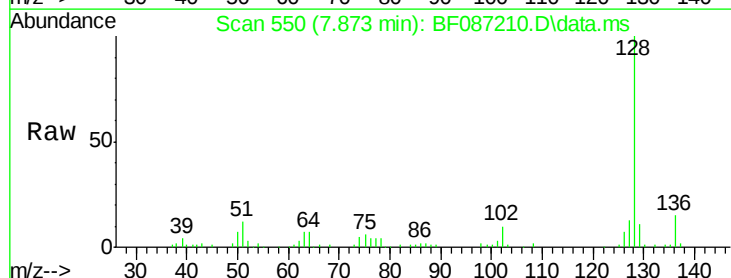
Tgt Ion: 128 Resp: 99539

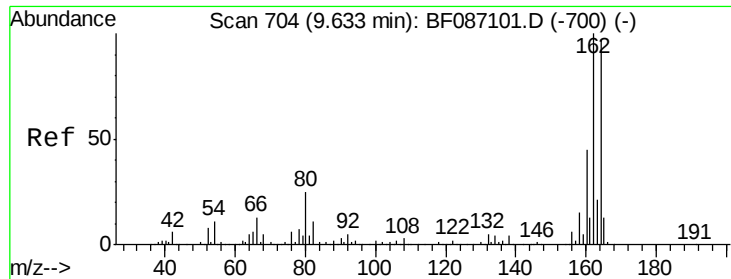
Ion Ratio Lower Upper

128 100

129 11.3 8.6 13.0

127 12.9 10.8 16.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.599 min Scan# 704

Delta R.T. -0.046 min

Lab File: BF087210.D

Acq: 20 May 2016 4:13

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGS

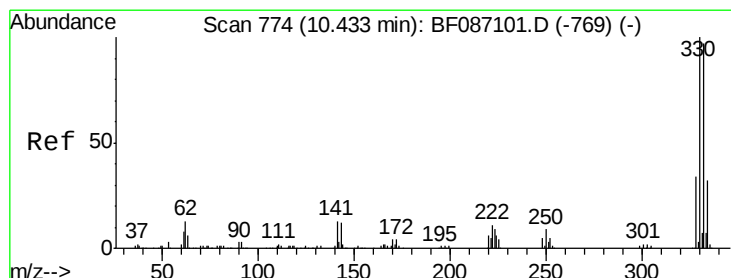
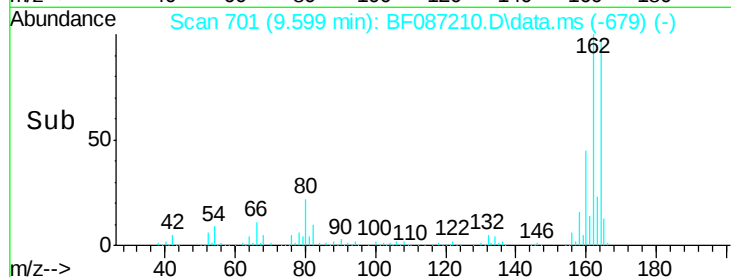
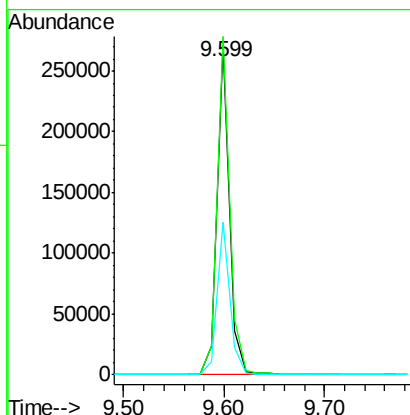
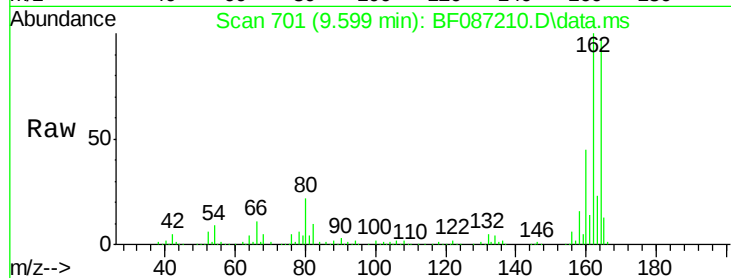
Tot Ion:164 Resp: 230272

Ion Ratio Lower Upper

164 100

162 102.8 82.8 124.2

160 46.4 36.9 55.3



#41

2,4,6-Tribromophenol

Concen: 63.67 ng

RT: 10.399 min Scan# 771

Delta R.T. -0.046 min

Lab File: BF087210.D

Acq: 20 May 2016 4:13

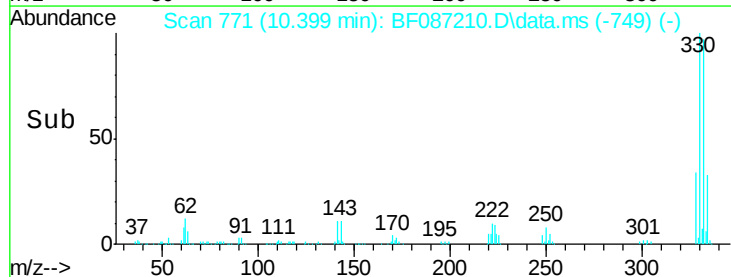
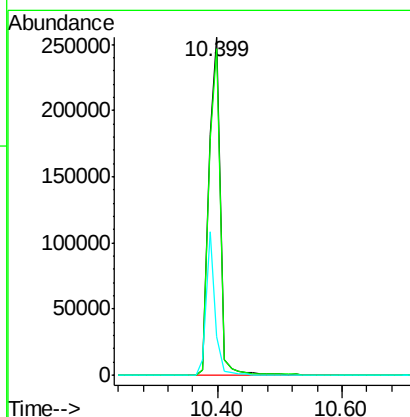
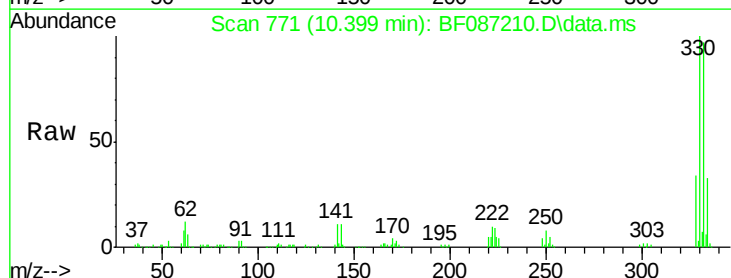
Tgt Ion:330 Resp: 324009

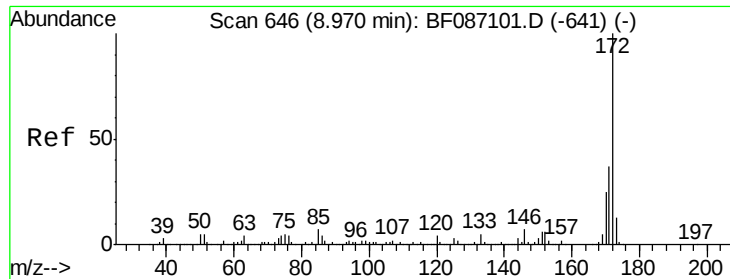
Ion Ratio Lower Upper

330 100

332 97.5 79.0 118.4

141 33.5 31.2 46.8

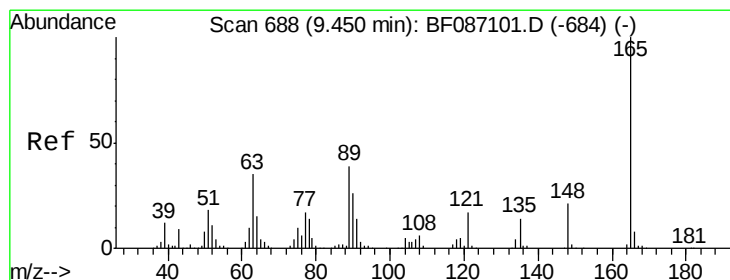
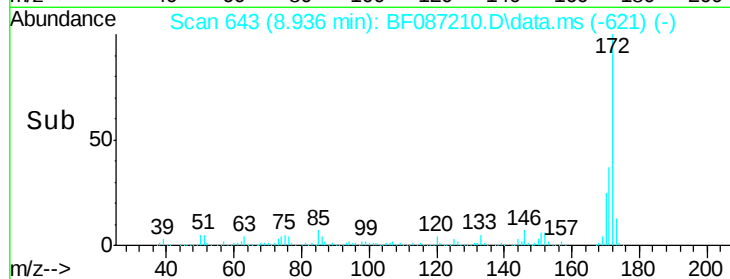
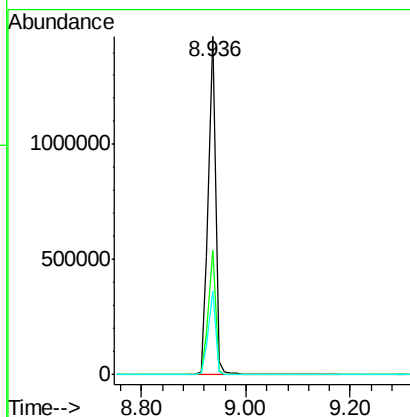
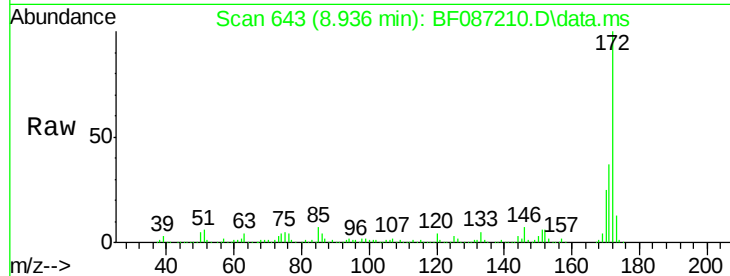




#44  
2-Fluorobiphenyl  
Concen: 51.57 ng  
RT: 8.936 min Scan# 64  
Delta R.T. -0.046 min  
Lab File: BF087210.D  
Acq: 20 May 2016 4:13

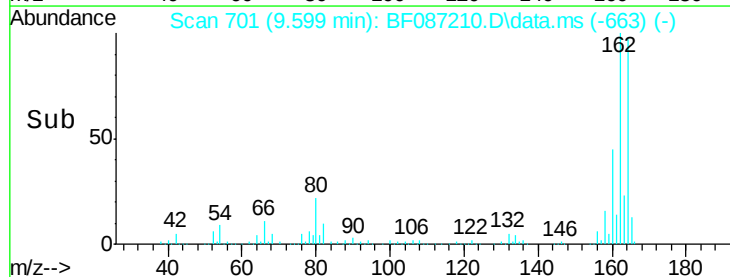
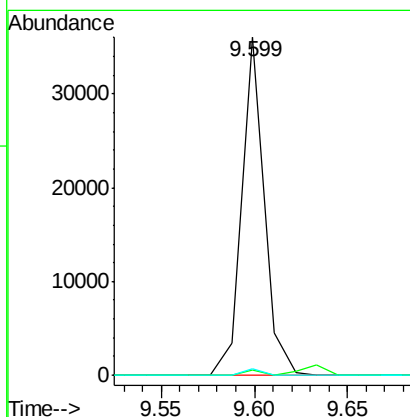
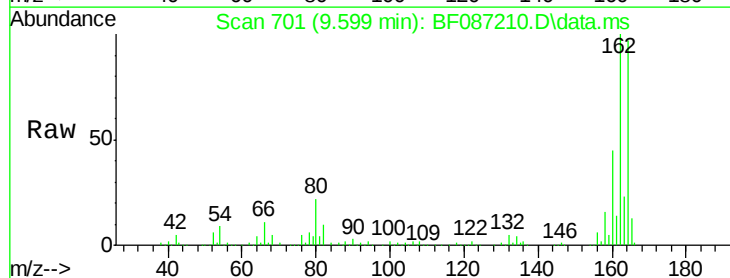
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGS

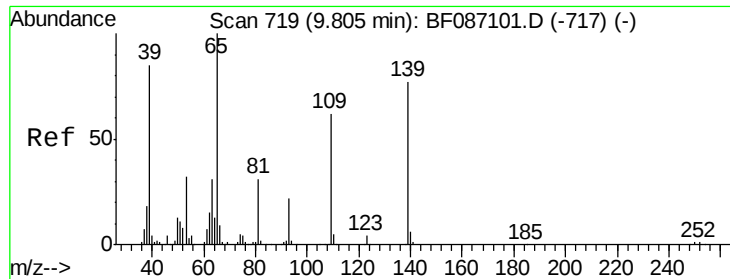
Tot Ion:172 Resp: 1433950  
Ion Ratio Lower Upper  
172 100  
171 36.6 29.0 43.6  
170 24.8 19.8 29.8



#50  
2,6-Dinitrotoluene  
Concen: 7.96 ng  
RT: 9.599 min Scan# 701  
Delta R.T. 0.137 min  
Lab File: BF087210.D  
Acq: 20 May 2016 4:13

Tgt Ion:165 Resp: 30347  
Ion Ratio Lower Upper  
165 100  
63 1.7 51.8 77.8#  
89 2.1 50.7 76.1#

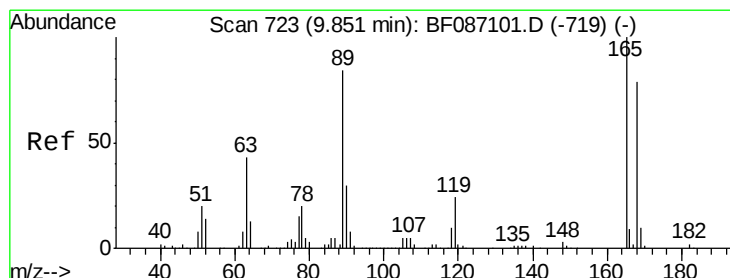
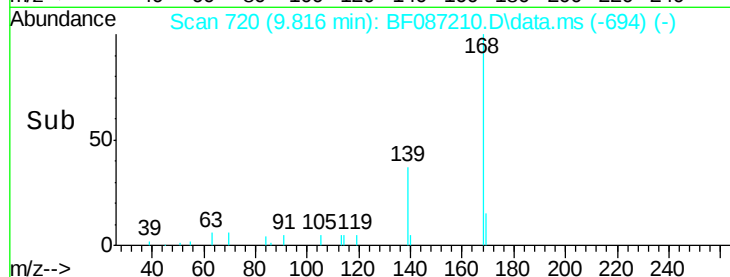
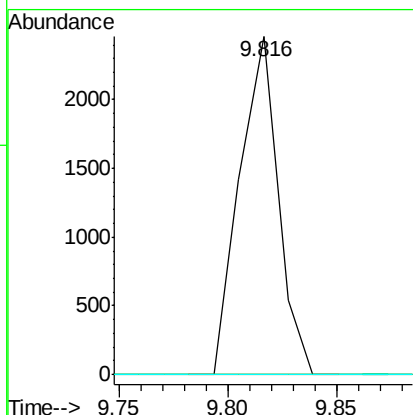
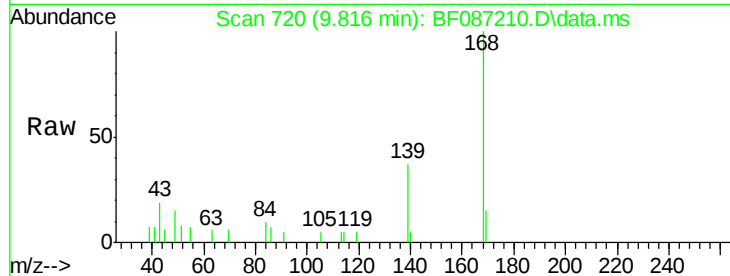




#55  
4-Nitrophenol  
Concen: 2.41 ng  
RT: 9.816 min Scan# 72  
Delta R.T. 0.000 min  
Lab File: BF087210.D  
Acq: 20 May 2016 4:13

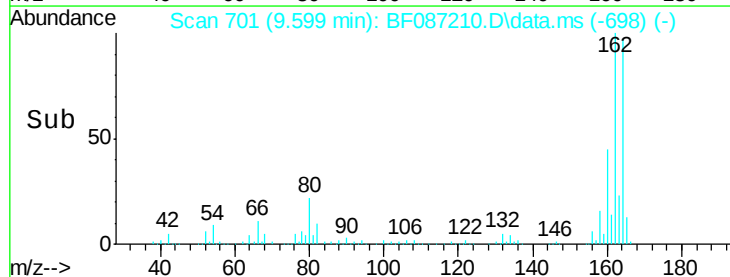
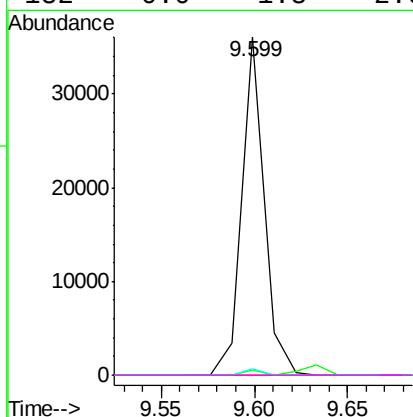
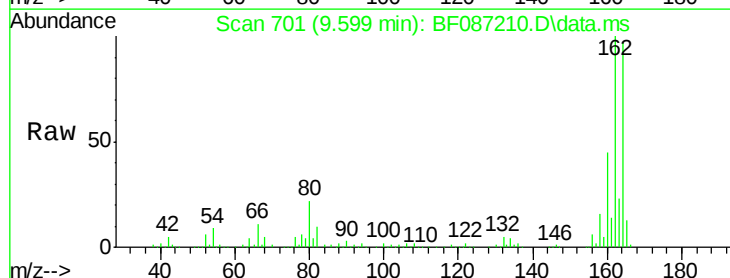
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGS

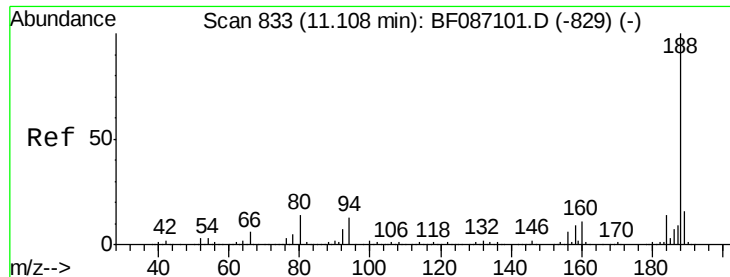
Tot Ion:139 Resp: 3031  
Ion Ratio Lower Upper  
139 100  
109 0.0 36.9 76.9#  
65 0.0 64.0 104.0#



#56  
2,4-Dinitrotoluene  
Concen: 6.21 ng  
RT: 9.599 min Scan# 701  
Delta R.T. -0.263 min  
Lab File: BF087210.D  
Acq: 20 May 2016 4:13

Tgt Ion:165 Resp: 30347  
Ion Ratio Lower Upper  
165 100  
63 1.7 44.3 66.5#  
89 2.1 70.0 105.0#  
182 0.0 1.8 2.6#

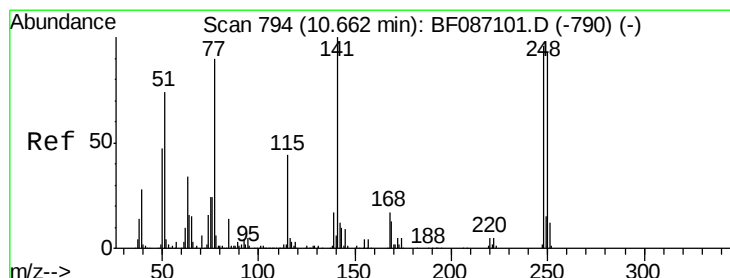
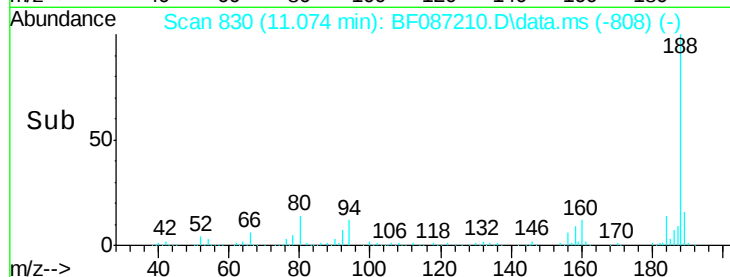
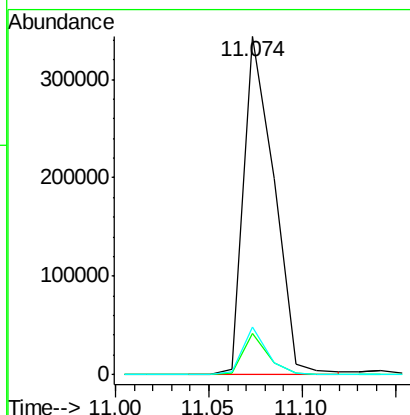
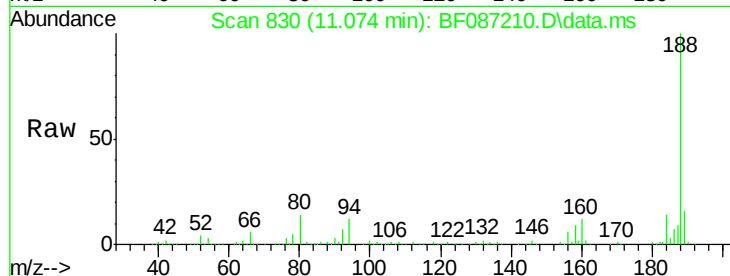




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.074 min Scan# 83  
Delta R.T. -0.046 min  
Lab File: BF087210.D  
Acq: 20 May 2016 4:13

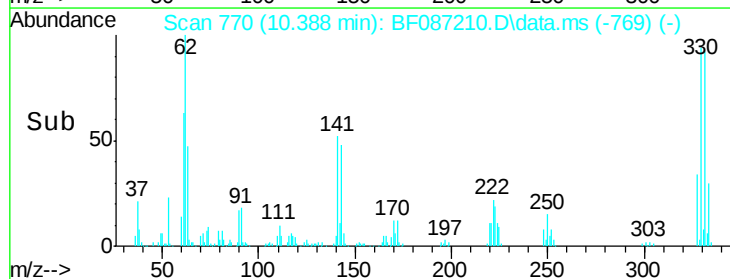
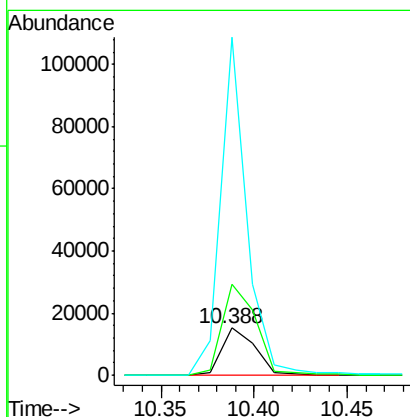
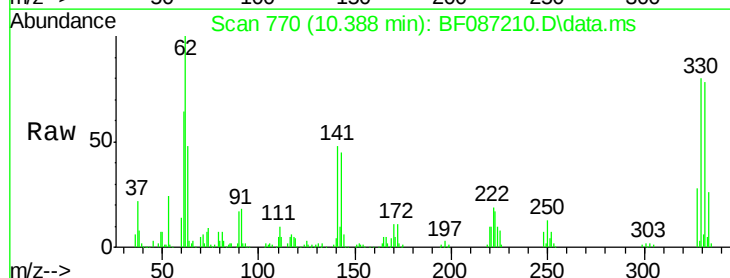
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGS

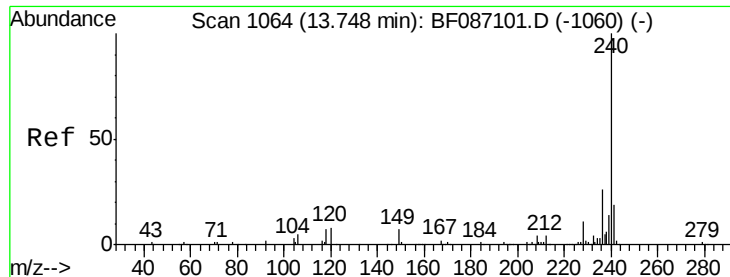
Tot Ion:188 Resp: 386897  
Ion Ratio Lower Upper  
188 100  
94 12.2 6.8 10.2#  
80 14.1 7.1 10.7#



#66  
4-Bromophenyl-phenylether  
Concen: 4.72 ng  
RT: 10.388 min Scan# 770  
Delta R.T. -0.286 min  
Lab File: BF087210.D  
Acq: 20 May 2016 4:13

Tgt Ion:248 Resp: 18790  
Ion Ratio Lower Upper  
248 100  
250 192.3 78.6 117.8#  
141 712.8 76.0 114.0#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.702 min Scan# 10

Delta R.T. -0.057 min

Lab File: BF087210.D

Acq: 20 May 2016 4:13

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGS

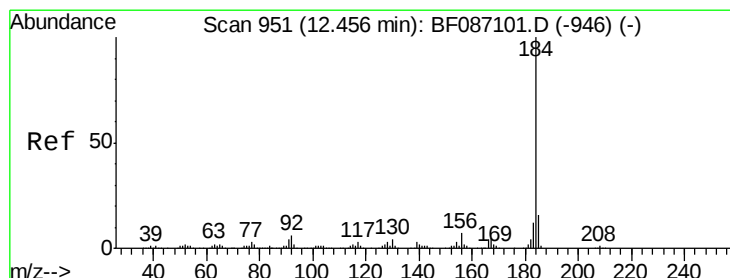
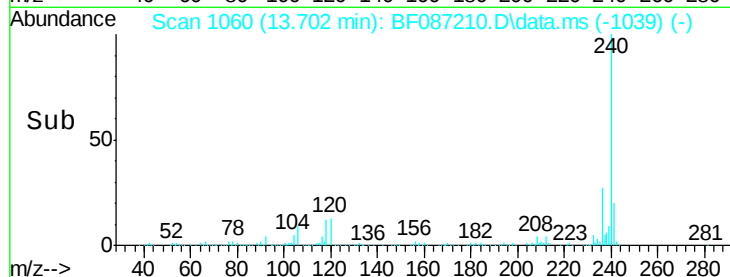
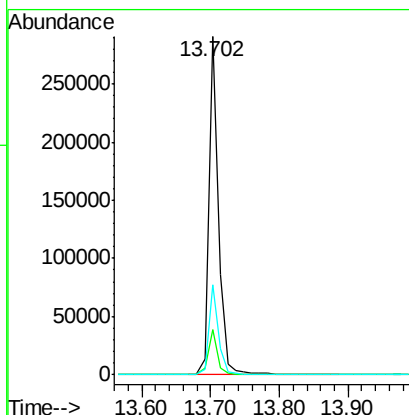
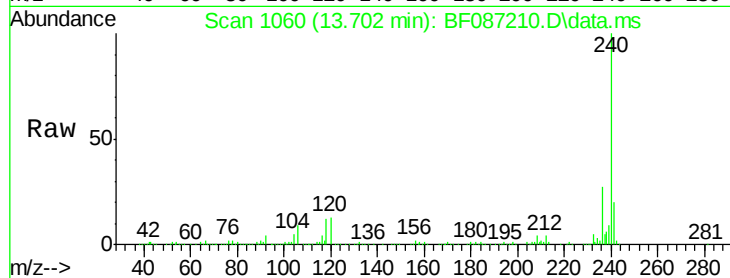
Tot Ion:240 Resp: 282636

Ion Ratio Lower Upper

240 100

120 13.4 11.2 16.8

236 26.7 21.2 31.8



#76

Benzidine

Concen: 2.60 ng

RT: 12.662 min Scan# 969

Delta R.T. 0.195 min

Lab File: BF087210.D

Acq: 20 May 2016 4:13

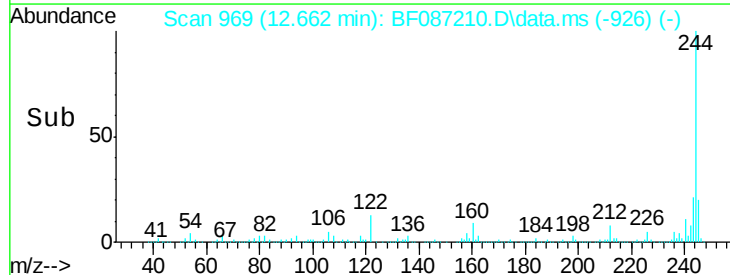
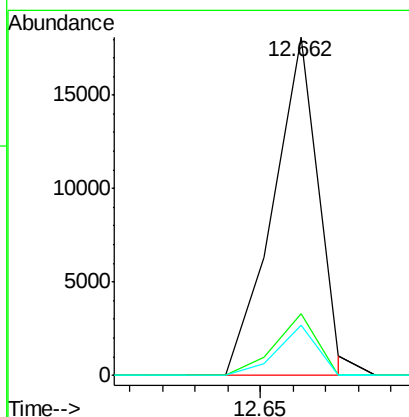
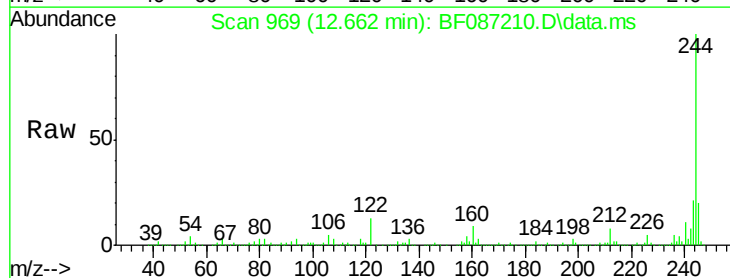
Tgt Ion:184 Resp: 17447

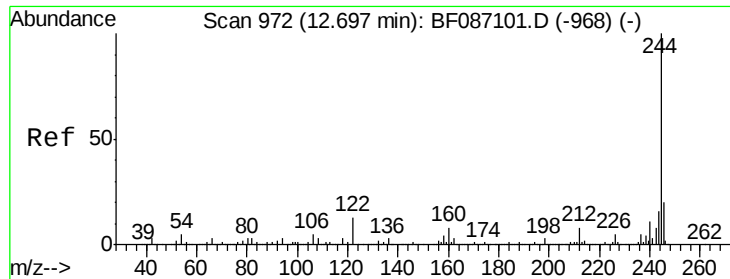
Ion Ratio Lower Upper

184 100

185 18.1 13.6 20.4

183 14.8 9.8 14.6#





#78

Terphenyl-d14

Concen: 44.04 ng

RT: 12.662 min Scan# 96

Delta R.T. -0.046 min

Lab File: BF087210.D

Acq: 20 May 2016 4:13

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGS

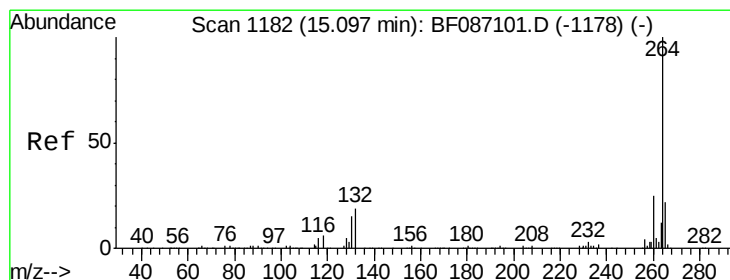
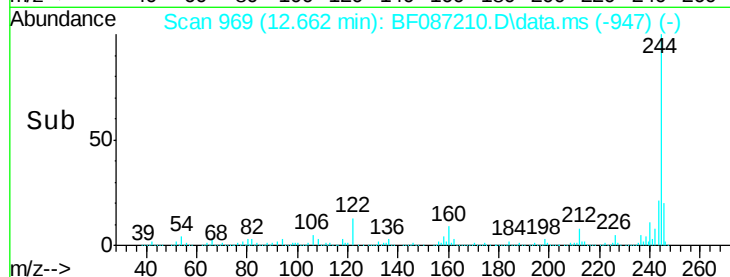
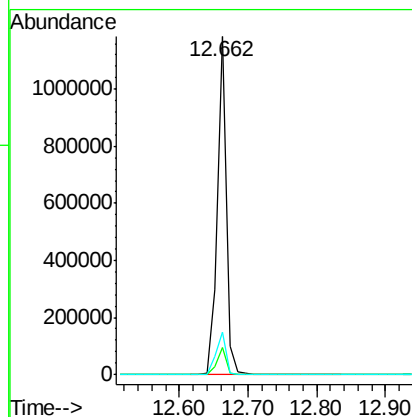
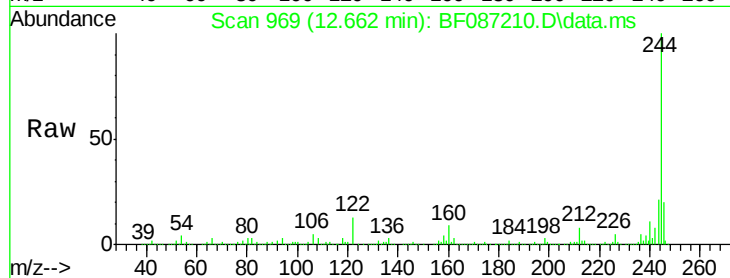
Tot Ion:244 Resp: 1100586

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.2

122 12.7 12.0 18.0



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.063 min Scan# 1179

Delta R.T. -0.046 min

Lab File: BF087210.D

Acq: 20 May 2016 4:13

Tgt Ion:264 Resp: 238220

Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

265 20.9 17.3 25.9

