

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112916\  
 Data File : BF091333.D  
 Acq On : 29 Nov 2016 18:09  
 Operator : UM/SJ  
 Sample : H5696-02MSD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGSMSD

Manual Integrations  
 APPROVED

sohil  
 11/30/2016 10:33:53 AM

Quant Time: Nov 30 00:52:42 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 29 13:33:46 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 187641   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 719494   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.91  | 164  | 422447   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.38 | 188  | 638125   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 14.01 | 240  | 367467   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 15.44 | 264  | 188140   | 20.00 | ng    | -0.03    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.49  | 112 | 1295256 | 112.77 | ng | 0.02  |
| 7) Phenol-d6             | 6.50  | 99  | 1518053 | 107.36 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 7.43  | 82  | 1024276 | 79.78  | ng | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.70 | 330 | 494044  | 123.53 | ng | 0.00  |
| 44) 2-Fluorobiphenyl     | 9.24  | 172 | 2051456 | 87.93  | ng | 0.00  |
| 78) Terphenyl-d14        | 12.97 | 244 | 1788855 | 105.81 | ng | -0.02 |

## Target Compounds

|                                |      |     |         |       |    | Qvalue |
|--------------------------------|------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.63 | 88  | 160745  | 30.94 | ng | 87     |
| 3) Pyridine                    | 3.33 | 79  | 253655  | 17.25 | ng | # 85   |
| 4) n-Nitrosodimethylamine      | 3.26 | 42  | 295685  | 38.32 | ng | 98     |
| 6) Aniline                     | 6.61 | 93  | 524388m | 27.92 | ng |        |
| 8) 2-Chlorophenol              | 6.65 | 128 | 494809  | 39.29 | ng | 86     |
| 10) Phenol                     | 6.52 | 94  | 633715  | 38.09 | ng | 88     |
| 11) bis(2-Chloroethyl)ether    | 6.61 | 93  | 524975  | 44.16 | ng | 98     |
| 12) 1,3-Dichlorobenzene        | 6.81 | 146 | 497794  | 35.53 | ng | 96     |
| 13) 1,4-Dichlorobenzene        | 6.88 | 146 | 481974  | 34.59 | ng | 95     |
| 14) 1,2-Dichlorobenzene        | 7.04 | 146 | 510522  | 39.33 | ng | 94     |
| 15) Benzyl Alcohol             | 7.01 | 79  | 330700  | 29.23 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.16 | 45  | 1016828 | 39.78 | ng | 74     |
| 17) 2-Methylphenol             | 7.12 | 107 | 390100  | 39.19 | ng | # 76   |
| 18) Hexachloroethane           | 7.38 | 117 | 191209  | 38.65 | ng | 97     |
| 19) n-Nitroso-di-n-propylamine | 7.28 | 70  | 365422  | 41.02 | ng | # 97   |
| 20) 3+4-Methylphenols          | 7.28 | 107 | 485919  | 39.98 | ng | # 45   |
| 22) Acetophenone               | 7.28 | 105 | 683092  | 40.06 | ng | # 88   |
| 24) Nitrobenzene               | 7.45 | 77  | 590737  | 44.94 | ng | # 83   |
| 25) Isophorone                 | 7.69 | 82  | 1004346 | 44.16 | ng | 98     |
| 26) 2-Nitrophenol              | 7.76 | 139 | 241084  | 40.25 | ng | 97     |
| 27) 2,4-Dimethylphenol         | 7.81 | 122 | 480891  | 42.91 | ng | 96     |
| 28) bis(2-Chloroethoxy)methane | 7.90 | 93  | 565770  | 41.32 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 8.01 | 162 | 426319  | 43.25 | ng | 90     |
| 30) 1,2,4-Trichlorobenzene     | 8.09 | 180 | 464454  | 42.03 | ng | 98     |
| 31) Naphthalene                | 8.17 | 128 | 1446107 | 42.29 | ng | 99     |
| 32) Benzoic acid               | 7.92 | 122 | 298794  | 36.17 | ng | 97     |
| 34) Hexachlorobutadiene        | 8.30 | 225 | 282171  | 41.52 | ng | 99     |
| 35) Caprolactam                | 8.58 | 113 | 96125m  | 33.93 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 8.70 | 107 | 427182  | 40.14 | ng | 99     |
| 37) 2-Methylnaphthalene        | 8.87 | 142 | 1002874 | 43.17 | ng | 95     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.03 | 216 | 410108  | 34.44 | ng | 100    |
| 40) Hexachlorocyclopentadiene  | 9.02 | 237 | 512650  | 92.87 | ng | 99     |
| 42) 2,4,6-Trichlorophenol      | 9.14 | 196 | 320459m | 41.40 | ng |        |
| 43) 2,4,5-Trichlorophenol      | 9.19 | 196 | 327064m | 42.17 | ng |        |

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 SOIL-CUTTINGSMSD

Manual Integrations  
 APPROVED

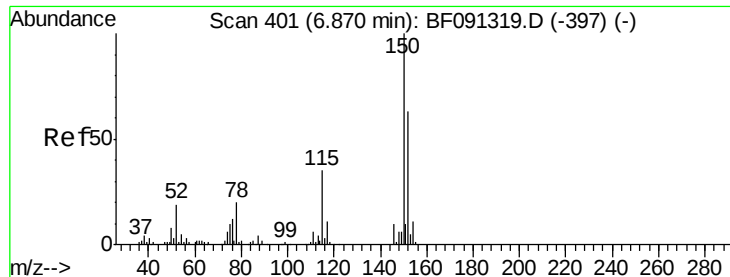
sohil  
 11/30/2016 10:33:53 AM

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 45) 1,1'-Biphenyl              | 9.33  | 154  | 1091907  | 35.95  | ng    | 98       |
| 46) 2-Chloronaphthalene        | 9.35  | 162  | 847241   | 37.45  | ng    | 97       |
| 47) 2-Nitroaniline             | 9.44  | 65   | 256869   | 31.61  | ng #  | 74       |
| 48) Acenaphthylene             | 9.77  | 152  | 1393287  | 39.12  | ng    | 99       |
| 49) Dimethylphthalate          | 9.64  | 163  | 1117952  | 43.71  | ng    | 98       |
| 50) 2,6-Dinitrotoluene         | 9.69  | 165  | 267010   | 46.70  | ng #  | 68       |
| 51) Acenaphthene               | 9.94  | 154  | 1054288  | 43.89  | ng    | 94       |
| 52) 3-Nitroaniline             | 9.85  | 138  | 37891    | 5.73   | ng    | 100      |
| 53) 2,4-Dinitrophenol          | 9.97  | 184  | 248707   | 99.48  | ng #  | 68       |
| 54) Dibenzofuran               | 10.12 | 168  | 1362692  | 42.37  | ng    | 93       |
| 55) 4-Nitrophenol              | 10.01 | 139  | 261258   | 54.66  | ng    | 100      |
| 56) 2,4-Dinitrotoluene         | 10.09 | 165  | 336983   | 45.44  | ng #  | 82       |
| 57) Fluorene                   | 10.46 | 166  | 996041   | 40.34  | ng    | 97       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.23 | 232  | 282281   | 42.62  | ng    | 96       |
| 59) Diethylphthalate           | 10.33 | 149  | 1055618  | 41.81  | ng    | 96       |
| 60) 4-Chlorophenyl-phenylether | 10.45 | 204  | 470652   | 38.01  | ng #  | 88       |
| 61) 4-Nitroaniline             | 10.46 | 138  | 92582    | 14.90  | ng    | 91       |
| 62) Azobenzene                 | 10.61 | 77   | 1098443  | 42.63  | ng    | 91       |
| 64) 4,6-Dinitro-2-methylphenol | 10.49 | 198  | 154566   | 43.97  | ng #  | 78       |
| 65) n-Nitrosodiphenylamine     | 10.56 | 169  | 461641   | 23.86  | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.94 | 248  | 338064   | 49.29  | ng #  | 81       |
| 67) Hexachlorobenzene          | 11.00 | 284  | 322720   | 43.54  | ng #  | 75       |
| 68) Atrazine                   | 11.09 | 200  | 24006    | 3.83   | ng    | 99       |
| 69) Pentachlorophenol          | 11.19 | 266  | 351791   | 80.63  | ng    | 96       |
| 70) Phenanthrene               | 11.41 | 178  | 1392681  | 42.00  | ng    | 100      |
| 71) Anthracene                 | 11.46 | 178  | 1500008  | 45.58  | ng    | 99       |
| 72) Carbazole                  | 11.61 | 167  | 569036   | 19.06  | ng    | 96       |
| 73) Di-n-butylphthalate        | 11.96 | 149  | 1533917  | 45.32  | ng    | 100      |
| 74) Fluoranthene               | 12.60 | 202  | 1394228  | 44.39  | ng    | 99       |
| 77) Pyrene                     | 12.82 | 202  | 1352107  | 48.49  | ng    | 99       |
| 79) Butylbenzylphthalate       | 13.44 | 149  | 504667   | 48.33  | ng    | 86       |
| 80) Benzo(a)anthracene         | 14.00 | 228  | 976020   | 45.42  | ng    | 99       |
| 82) Chrysene                   | 14.05 | 228  | 1035203  | 48.69  | ng    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 14.01 | 149  | 701503   | 53.00  | ng #  | 92       |
| 84) Di-n-octyl phthalate       | 14.62 | 149  | 1101728  | 55.01  | ng    | 99       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.85 | 276  | 1060054  | 54.44  | ng    | 96       |
| 87) Benzo(b)fluoranthene       | 15.04 | 252  | 1121188m | 95.88  | ng    |          |
| 88) Benzo(k)fluoranthene       | 15.07 | 252  | 765059m  | 77.80  | ng    |          |
| 89) Benzo(a)pyrene             | 15.39 | 252  | 823716   | 78.44  | ng #  | 97       |
| 90) Dibenzo(a,h)anthracene     | 16.87 | 278  | 993227   | 102.26 | ng #  | 95       |
| 91) Benzo(g,h,i)perylene       | 17.28 | 276  | 861193   | 85.99  | ng    | 97       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.87 min Scan# 401

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

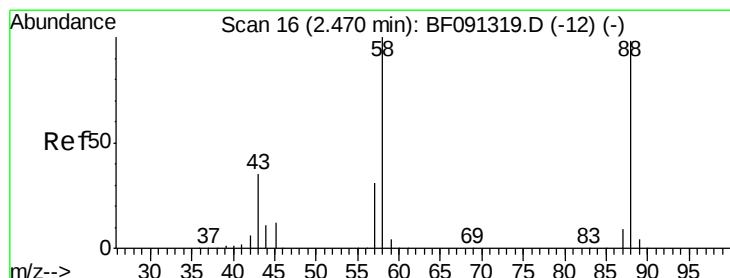
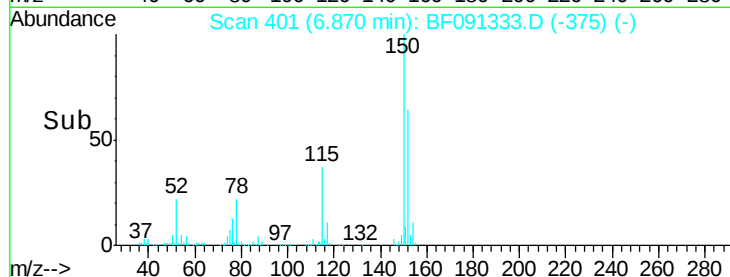
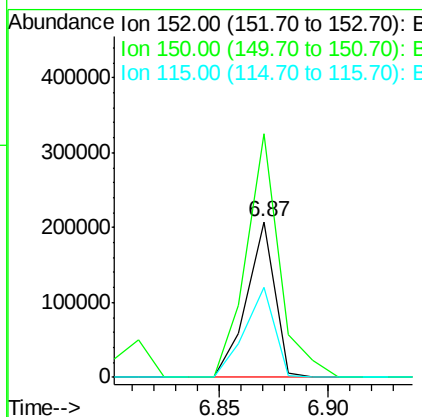
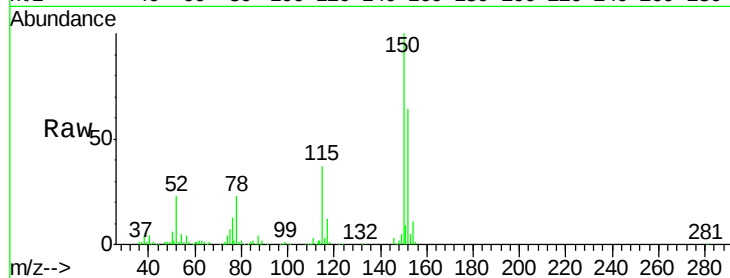
ClientSampleId :

SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 122.5 | 183.7 |
| 115     | 57.6  | 51.8  | 77.8  |

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#2

1,4-Dioxane

Concen: 30.94 ng

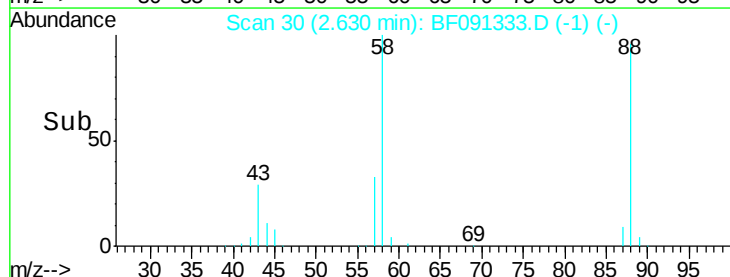
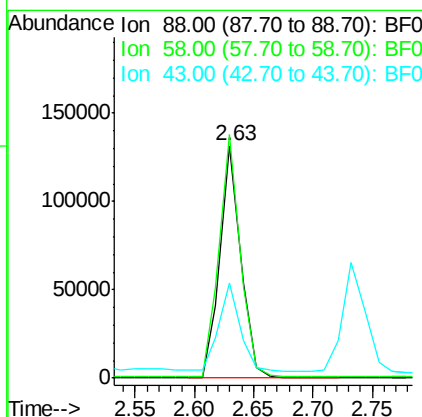
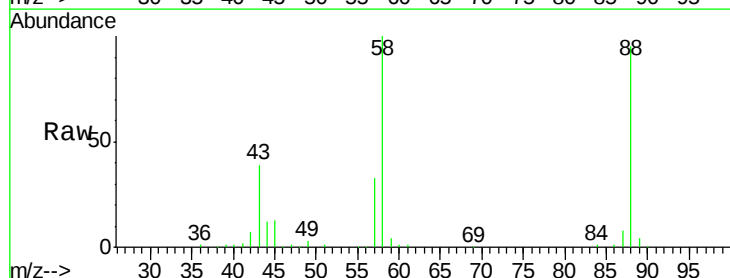
RT: 2.63 min Scan# 30

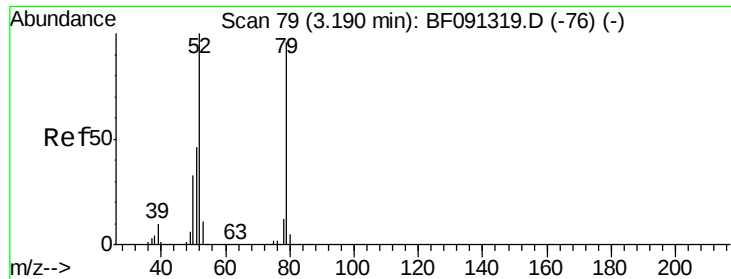
Delta R.T. 0.13 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 104.8 | 70.3  | 105.5 |
| 43      | 38.6  | 31.3  | 46.9  |





#3

Pyridine

Concen: 17.25 ng

RT: 3.33 min Scan# 91

Delta R.T. 0.11 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

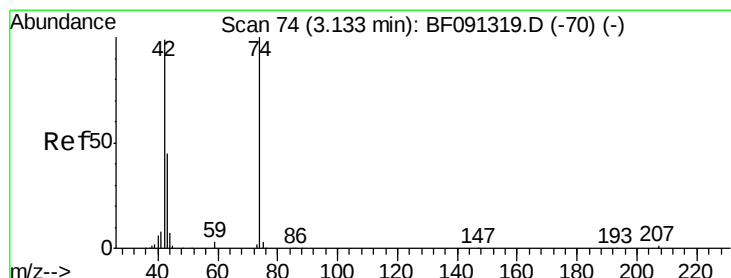
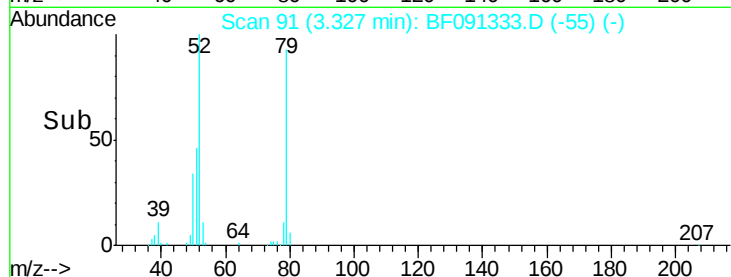
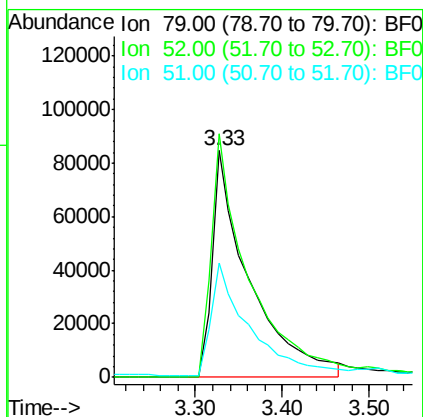
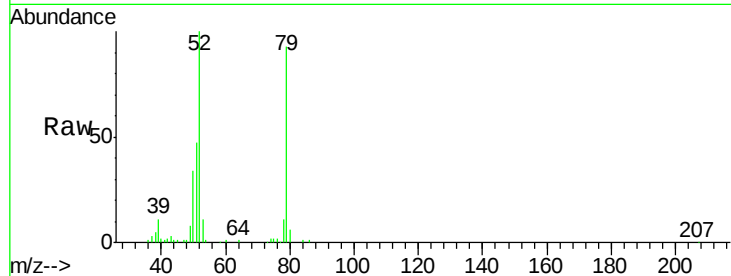
ClientSampleId :

SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 79      | 100   |       |        |
| 52      | 107.4 | 71.0  | 106.4# |
| 51      | 50.6  | 37.0  | 55.4   |

Manual Integrations  
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#4

n-Nitrosodimethylamine

Concen: 38.32 ng

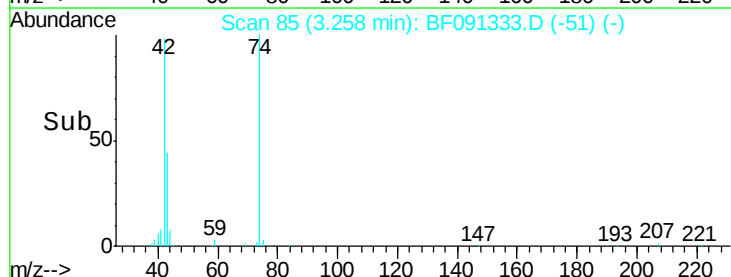
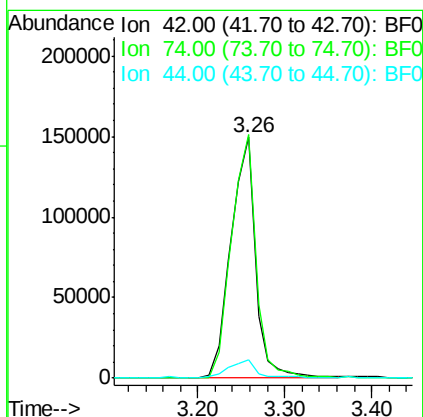
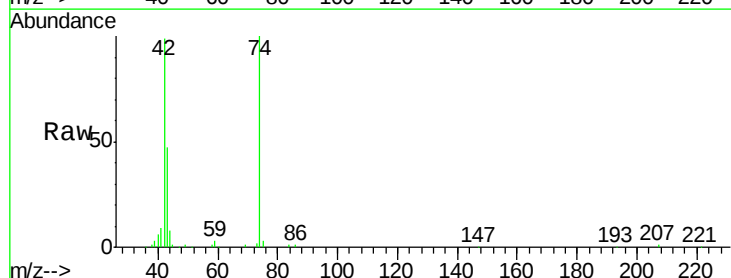
RT: 3.26 min Scan# 85

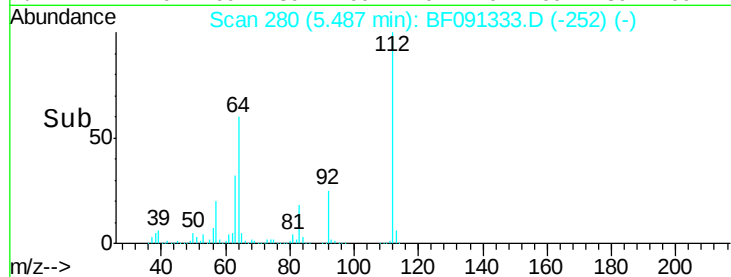
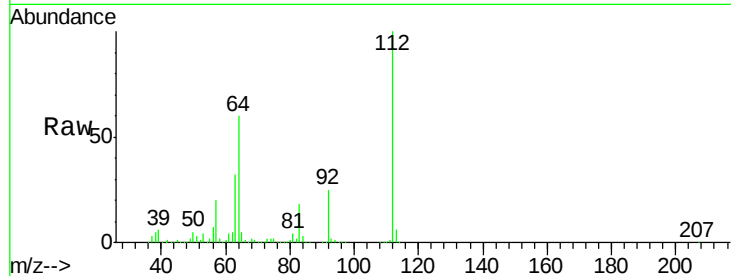
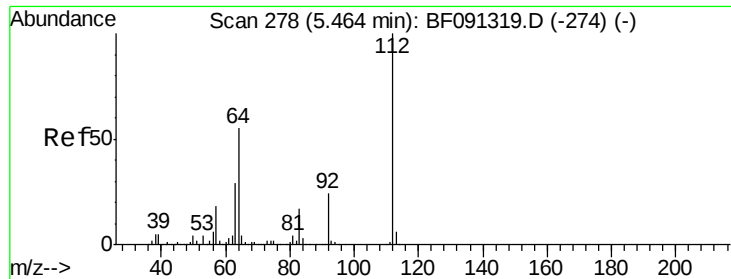
Delta R.T. 0.09 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 101.1 | 78.9  | 118.3 |
| 44      | 7.8   | 5.8   | 8.6   |





#5

2-Fluorophenol

Concen: 112.77 ng

RT: 5.49 min Scan# 280

Delta R.T. 0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tgt Ion: 112 Resp: 1295256

Ion Ratio Lower Upper

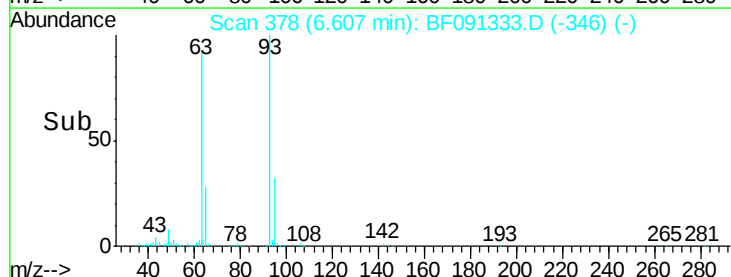
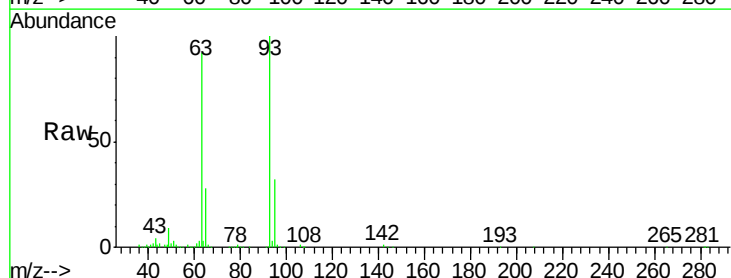
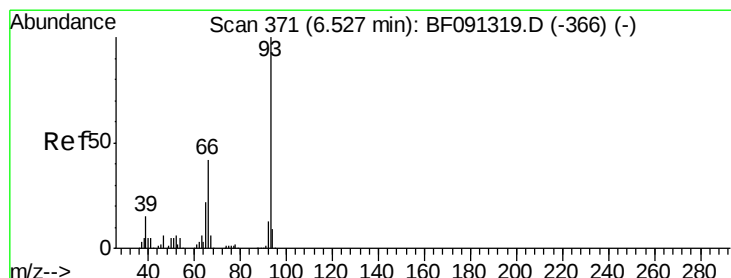
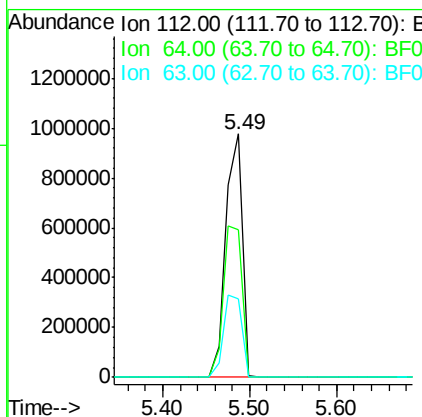
112 100

64 60.4 61.5 92.3#

63 32.3 33.3 49.9#

Manual Integrations  
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11/30/2016 10:33:53 AM



#6

Aniline

Concen: 27.92 ng m

RT: 6.61 min Scan# 378

Delta R.T. 0.06 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

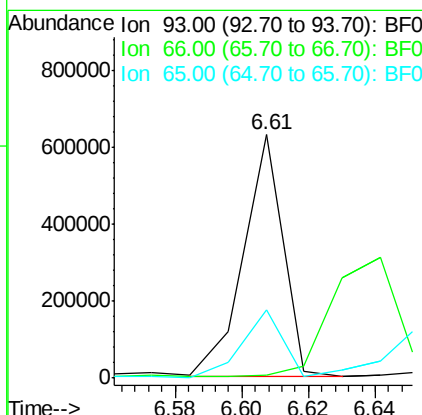
Tgt Ion: 93 Resp: 524388

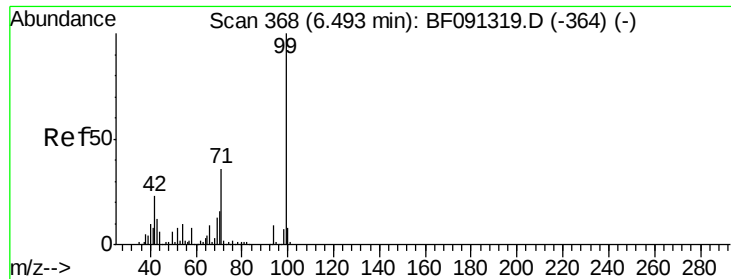
Ion Ratio Lower Upper

93 100

66 1.0 55.8 83.6#

65 28.1 29.9 44.9#





#7

Phenol-d6

Concen: 107.36 ng

RT: 6.50 min Scan# 369

Delta R.T. 0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tgt Ion: 99 Resp: 1518053

Ion Ratio Lower Upper

99 100

42 22.3 20.6 31.0

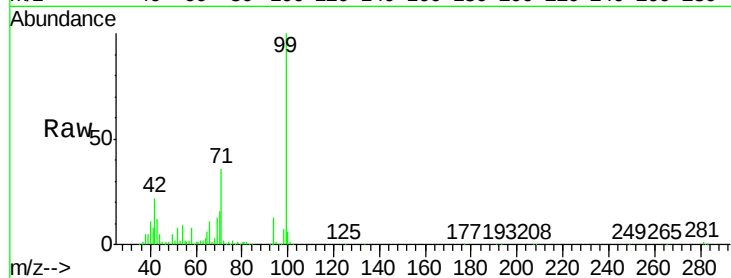
71 35.7 29.9 44.9

Manual Integrations

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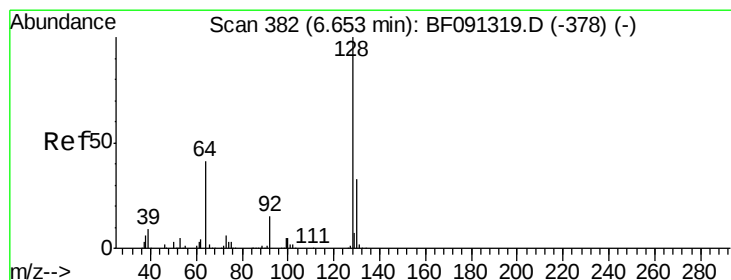
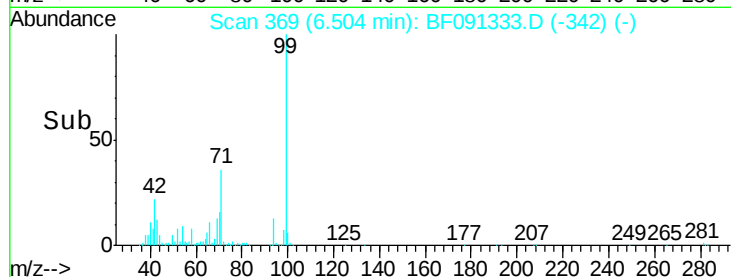
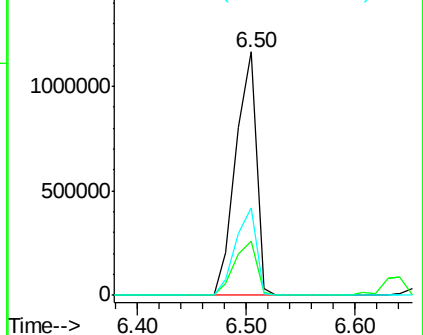
11/30/2016 10:33:53 AM



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 39.29 ng

RT: 6.65 min Scan# 382

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

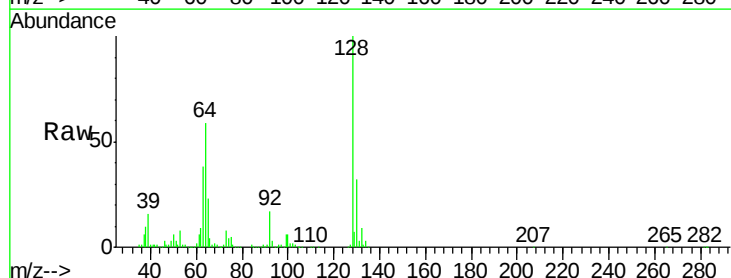
Tgt Ion: 128 Resp: 494809

Ion Ratio Lower Upper

128 100

130 32.4 13.1 53.1

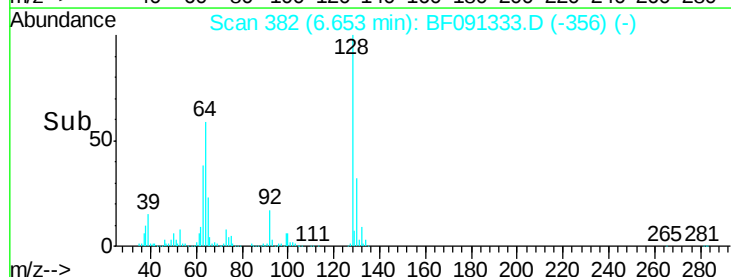
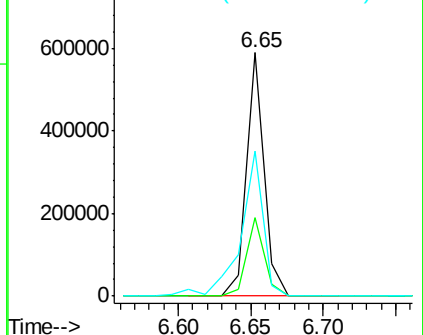
64 59.3 24.1 64.1

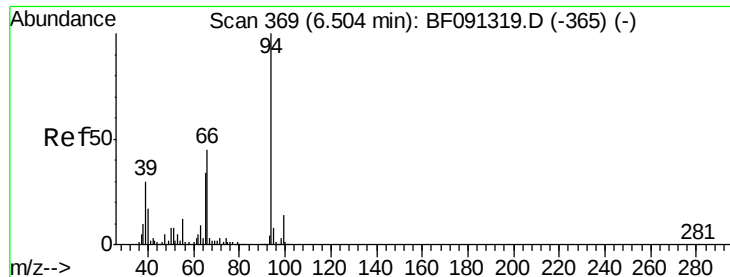


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#10

Phenol

Concen: 38.09 ng

RT: 6.52 min Scan# 370

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

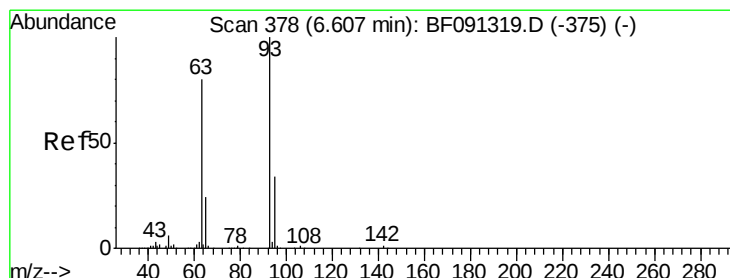
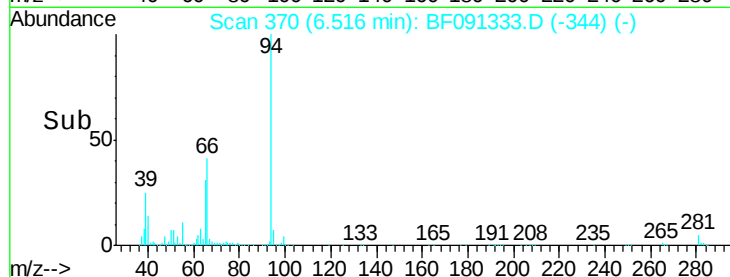
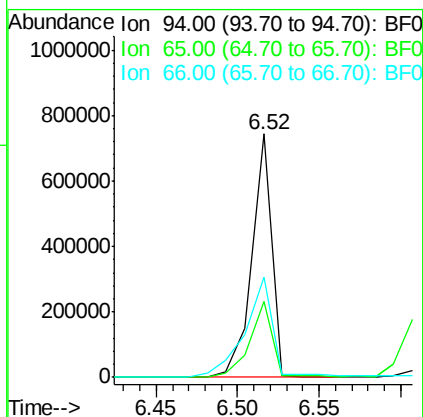
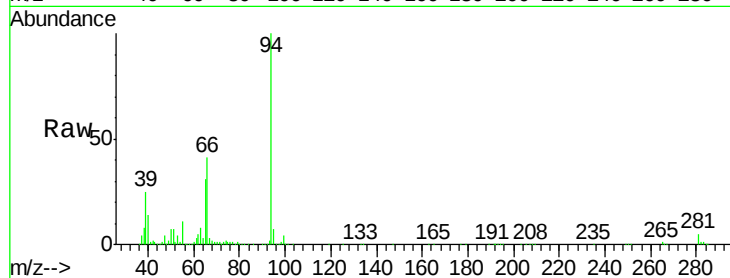
ClientSampleId :

SOIL-CUTTINGSMSD

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 94    | Resp: | 633715 |
| Ion      | Ratio | Lower | Upper  |
| 94       | 100   |       |        |
| 65       | 31.1  | 16.9  | 56.9   |
| 66       | 41.1  | 30.6  | 70.6   |

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#11

bis(2-Chloroethyl)ether

Concen: 44.16 ng

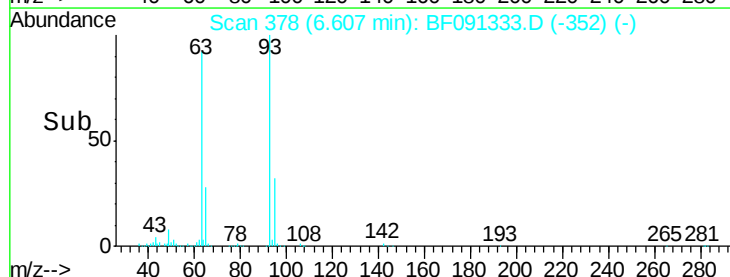
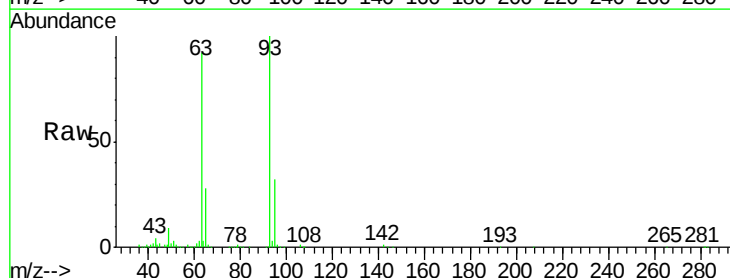
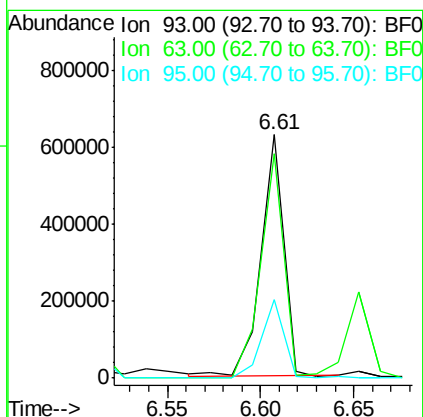
RT: 6.61 min Scan# 378

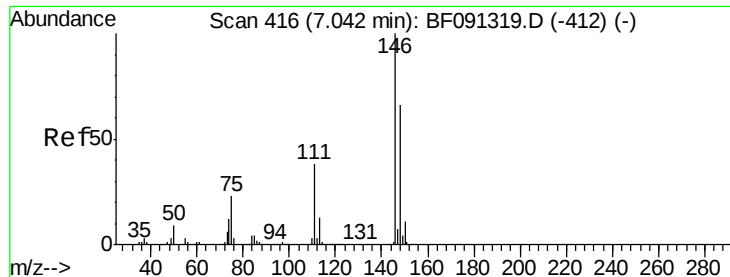
Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 93    | Resp: | 524975 |
| Ion      | Ratio | Lower | Upper  |
| 93       | 100   |       |        |
| 63       | 92.3  | 74.8  | 114.8  |
| 95       | 32.2  | 12.4  | 52.4   |





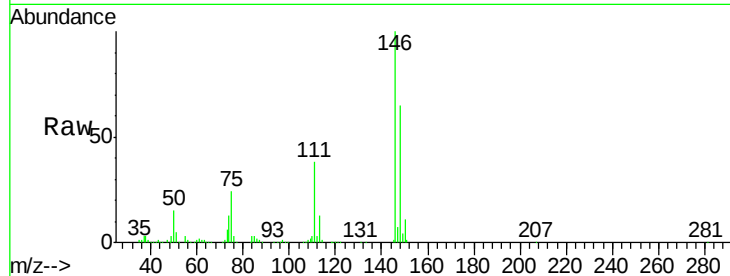
#12  
 1,3-Dichlorobenzene  
 Concen: 35.53 ng  
 RT: 6.81 min Scan# 396  
 Delta R.T. -0.01 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 65.2  | 51.4  | 77.0  |
| 75      | 23.7  | 23.6  | 35.4  |

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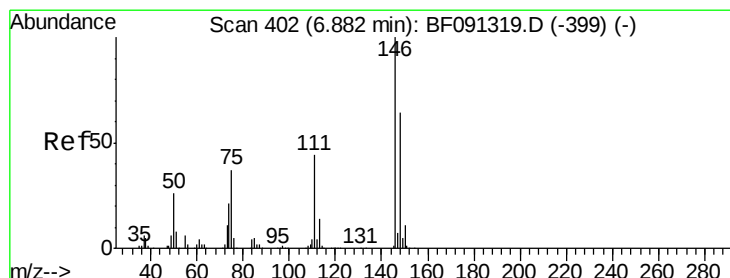
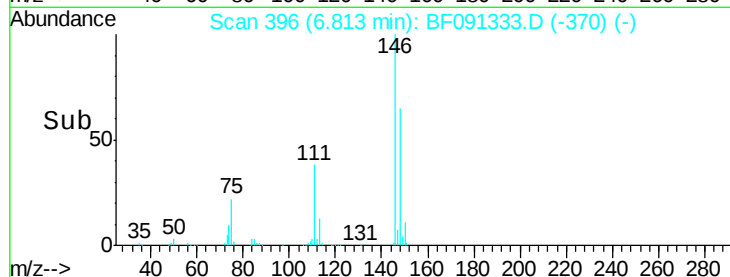
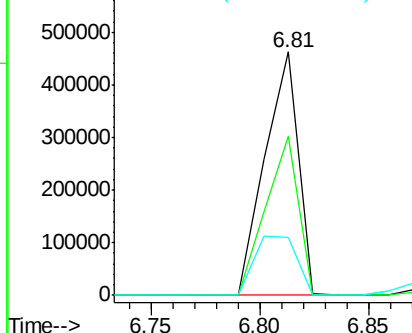


Abundance

Ion 146.00 (145.70 to 146.70): E

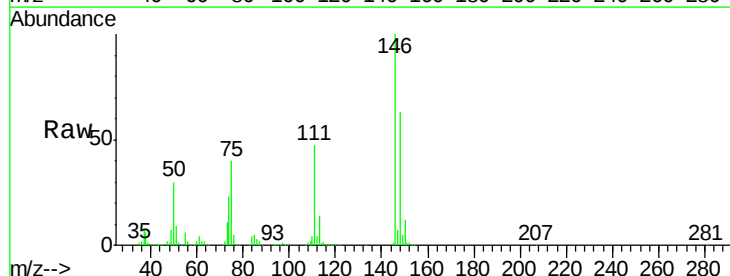
Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0



#13  
 1,4-Dichlorobenzene  
 Concen: 34.59 ng  
 RT: 6.88 min Scan# 402  
 Delta R.T. -0.02 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 62.9  | 51.4  | 77.0  |
| 111     | 46.6  | 32.2  | 48.2  |

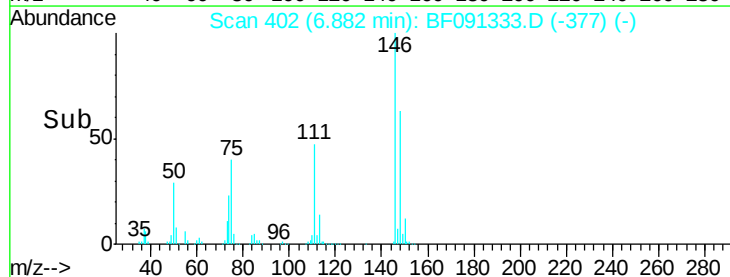
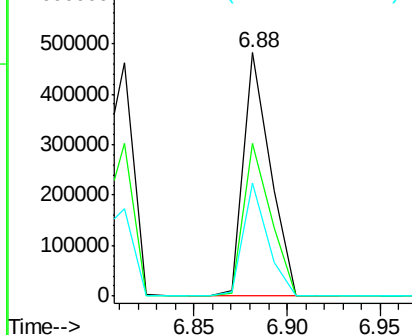


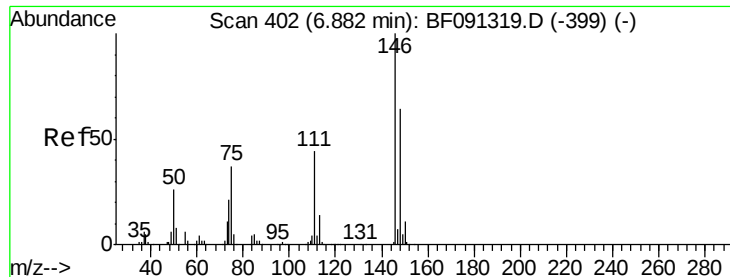
Abundance

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





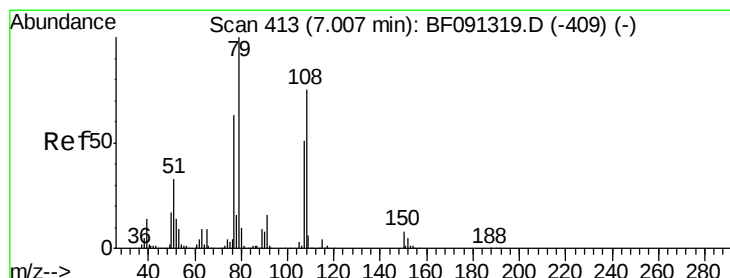
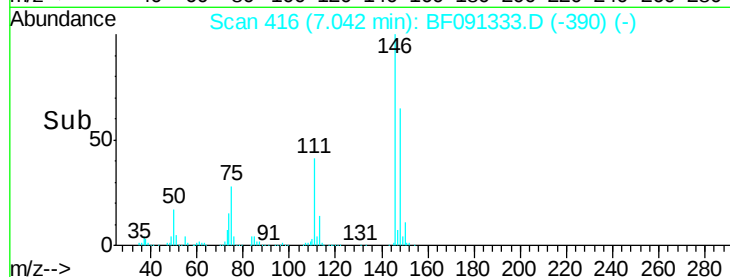
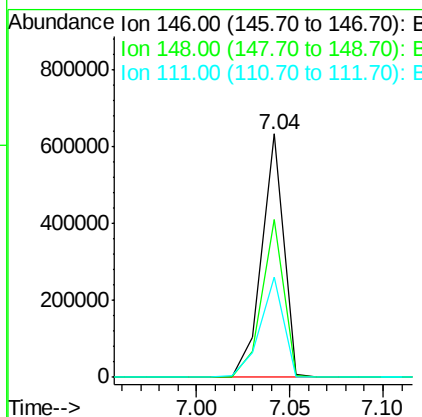
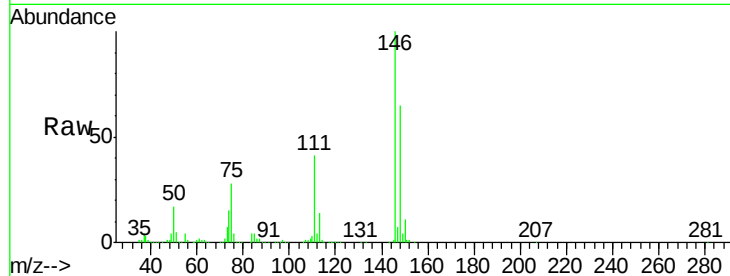
#14  
1,2-Dichlorobenzene  
Concen: 39.33 ng  
RT: 7.04 min Scan# 416  
Delta R.T. -0.01 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 64.9  | 51.0  | 76.6  |
| 111     | 41.2  | 38.9  | 58.3  |

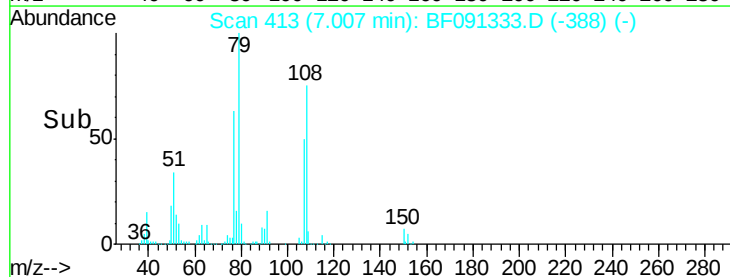
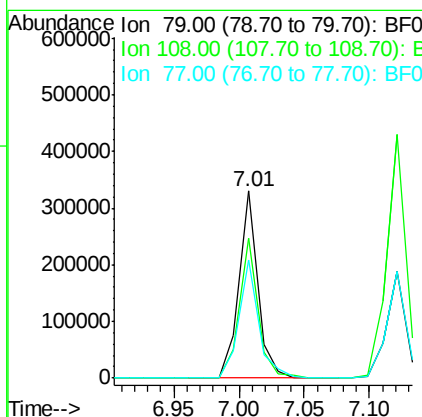
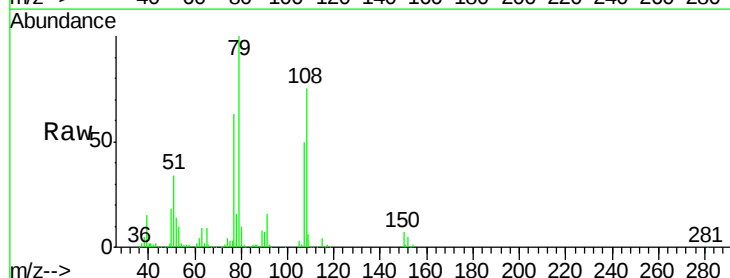
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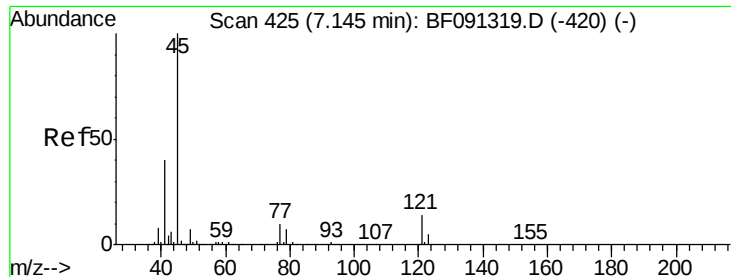
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#15  
Benzyl Alcohol  
Concen: 29.23 ng  
RT: 7.01 min Scan# 413  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 108     | 74.8  | 62.7  | 94.1  |
| 77      | 63.5  | 51.7  | 77.5  |





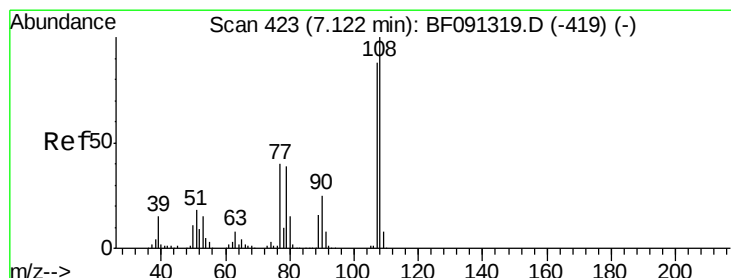
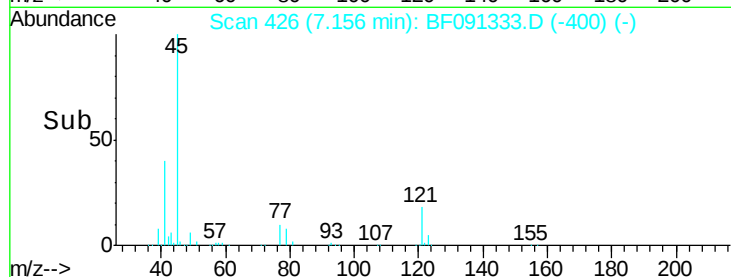
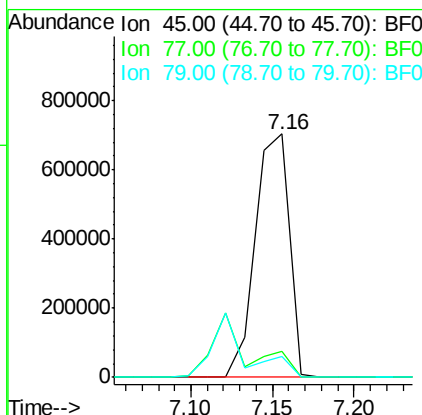
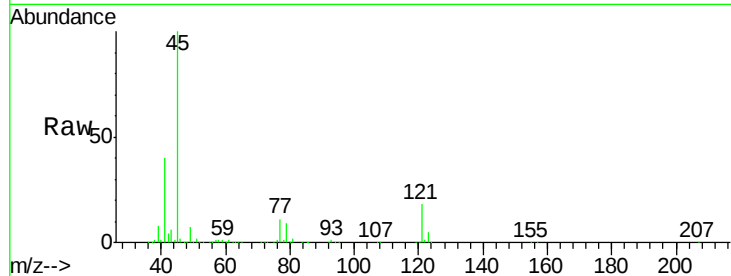
#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 39.78 ng  
RT: 7.16 min Scan# 426  
Delta R.T. -0.01 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

Tgt Ion: 45 Resp: 1016828  
Ion Ratio Lower Upper  
45 100  
77 10.5 3.8 43.8  
79 8.8 0.2 40.2

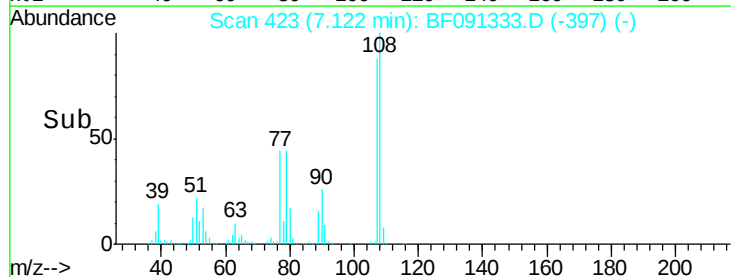
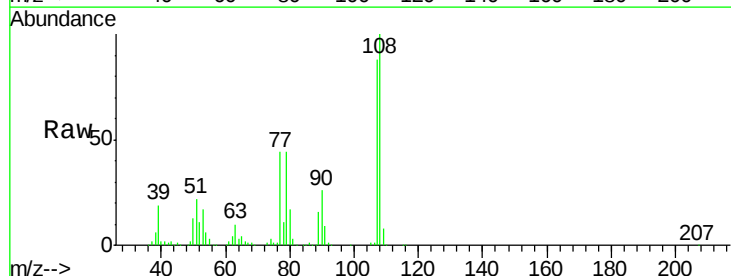
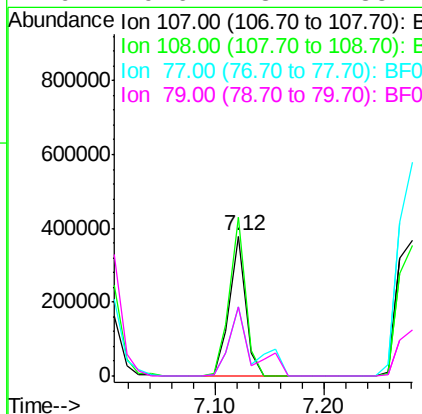
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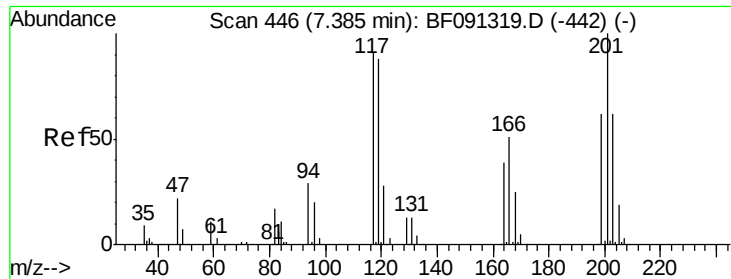
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#17  
2-Methylphenol  
Concen: 39.19 ng  
RT: 7.12 min Scan# 423  
Delta R.T. -0.01 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Tgt Ion: 107 Resp: 390100  
Ion Ratio Lower Upper  
107 100  
108 113.3 67.7 101.5#  
77 49.5 40.7 61.1  
79 49.6 23.4 35.2#





#18

Hexachloroethane

Concen: 38.65 ng

RT: 7.38 min Scan# 446

Delta R.T. -0.02 min

Lab File: BF091333.D

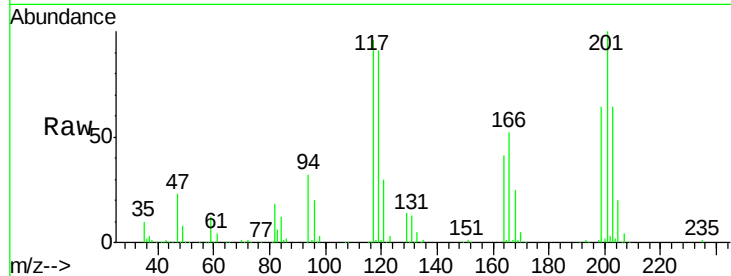
Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

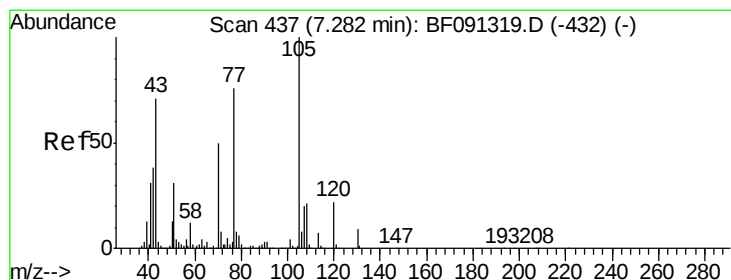
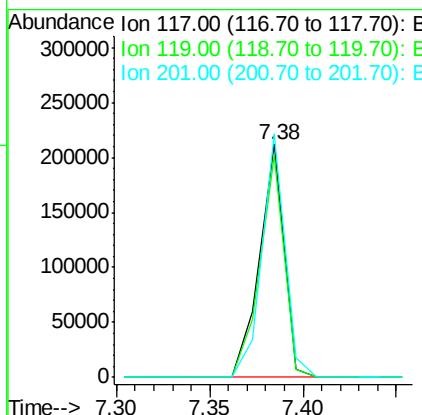
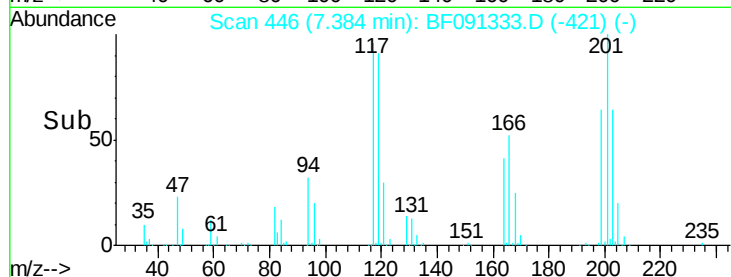
SOIL-CUTTINGSMSD



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 191209 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 95.4  | 78.6  | 118.0  |
| 201       | 104.5 | 86.7  | 130.1  |

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#19

n-Nitroso-di-n-propylamine

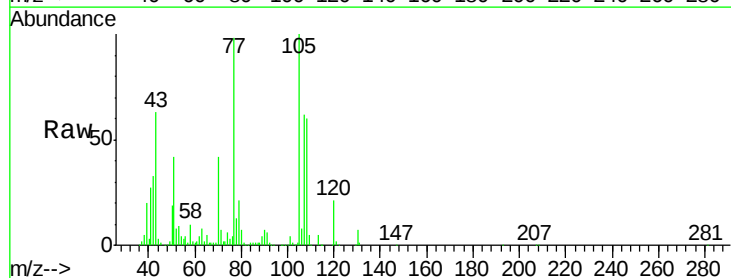
Concen: 41.02 ng

RT: 7.28 min Scan# 437

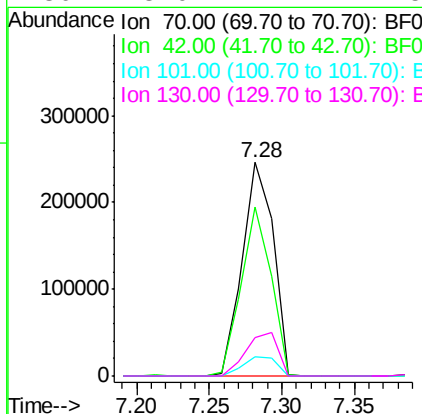
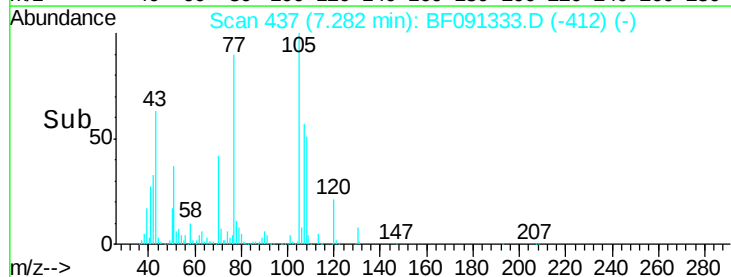
Delta R.T. -0.02 min

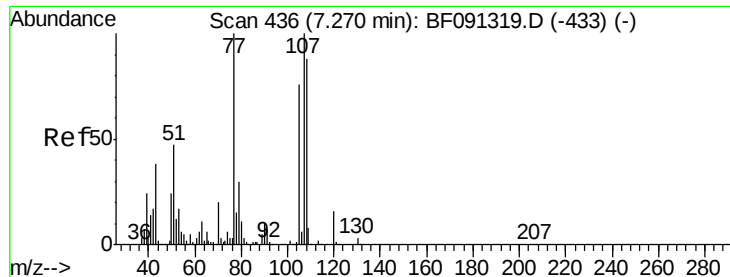
Lab File: BF091333.D

Acq: 29 Nov 2016 18:09



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 70    | Resp: | 365422 |
| Ion Ratio | Lower | Upper |        |
| 70        | 100   |       |        |
| 42        | 78.9  | 64.8  | 97.2   |
| 101       | 8.8   | 6.2   | 9.4    |
| 130       | 18.0  | 11.7  | 17.5#  |





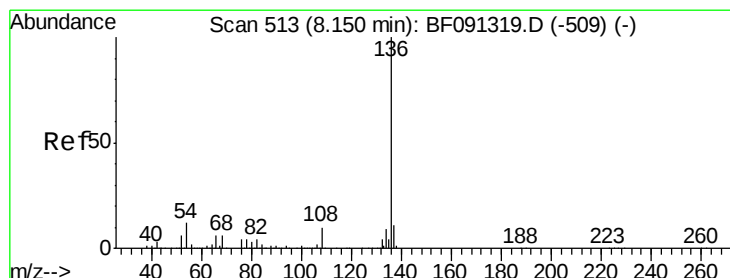
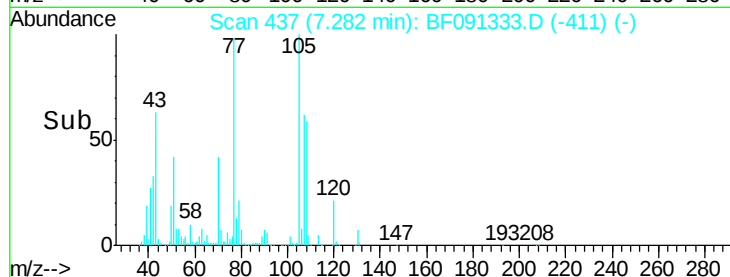
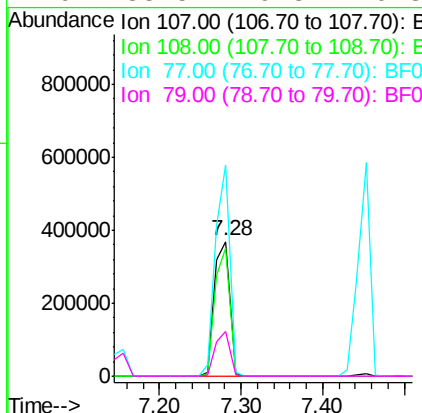
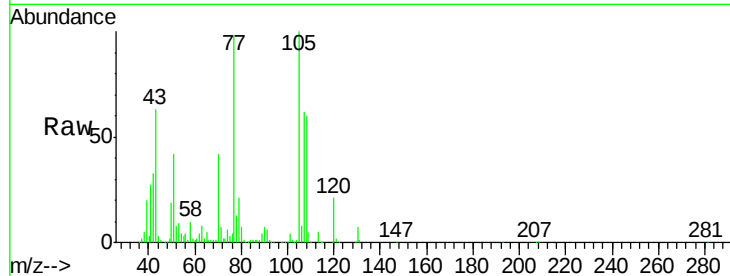
#20  
3+4-Methylphenols  
Concen: 39.98 ng  
RT: 7.28 min Scan# 437  
Delta R.T. -0.01 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 485919 |       |       |
| 108     | 95.5  | 64.6   | 104.6 |       |
| 77      | 156.9 | 30.9   | 70.9  |       |
| 79      | 33.5  | 9.3    | 49.3  |       |

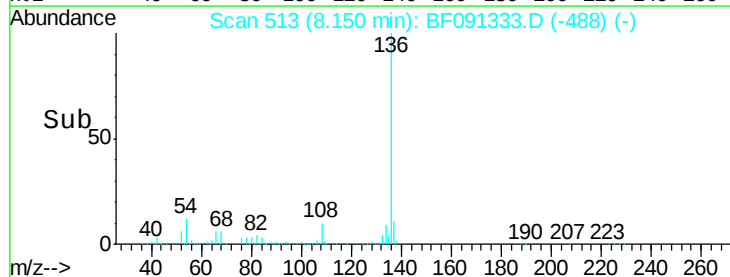
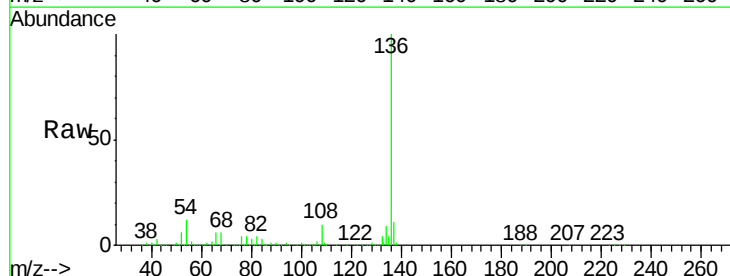
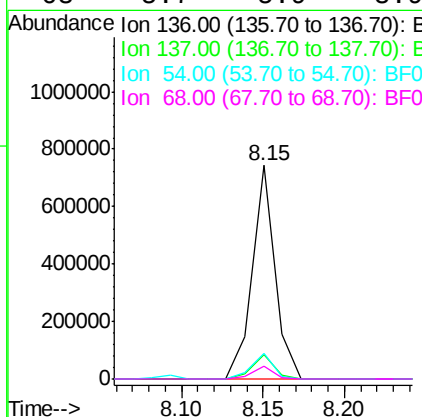
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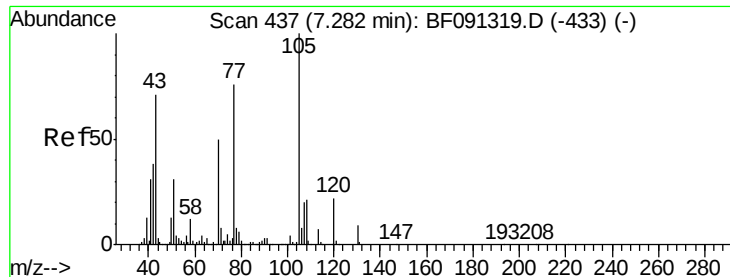
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#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.15 min Scan# 513  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 719494 |       |       |
| 137     | 11.3  | 9.1    | 13.7  |       |
| 54      | 12.1  | 9.1    | 13.7  |       |
| 68      | 5.7   | 5.9    | 8.9   |       |





#22

Acetophenone

Concen: 40.06 ng

RT: 7.28 min Scan# 437

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

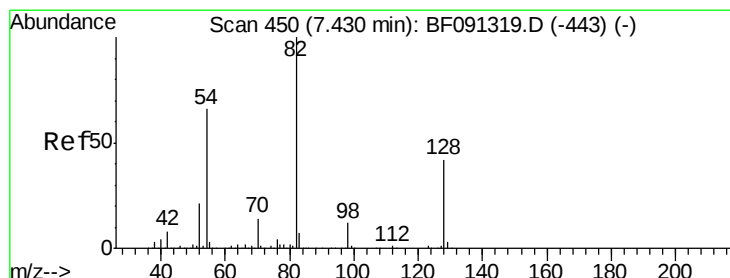
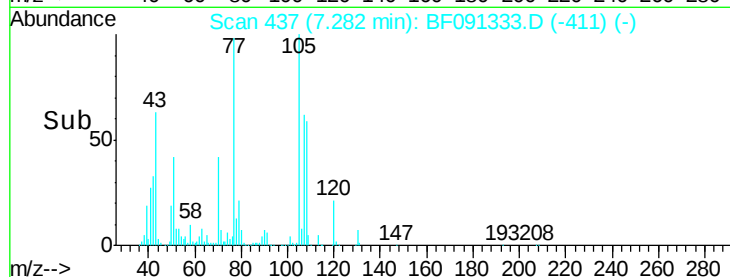
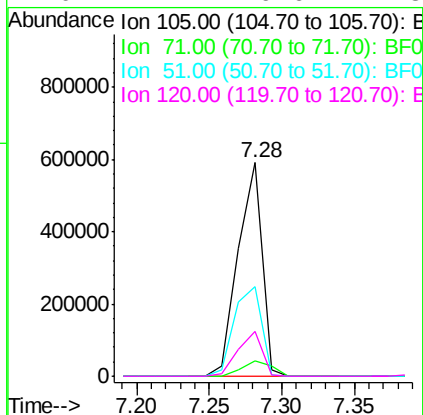
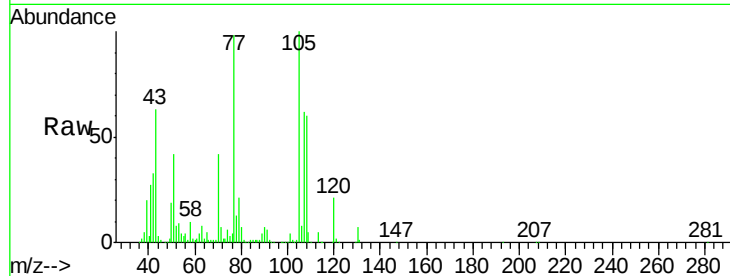
ClientSampleId :

SOIL-CUTTINGSMSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 683092 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 71        | 6.9   | 7.9   | 11.9#  |
| 51        | 42.2  | 24.5  | 36.7#  |
| 120       | 21.1  | 16.6  | 24.8   |

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#23

Nitrobenzene-d5

Concen: 79.78 ng

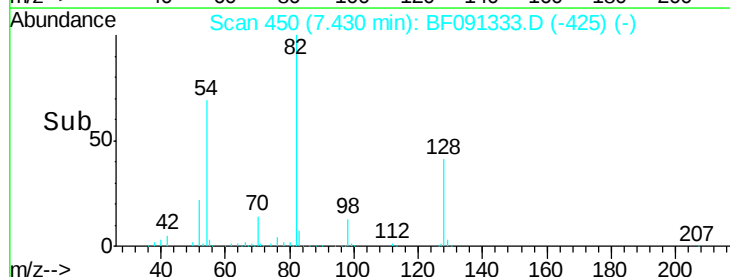
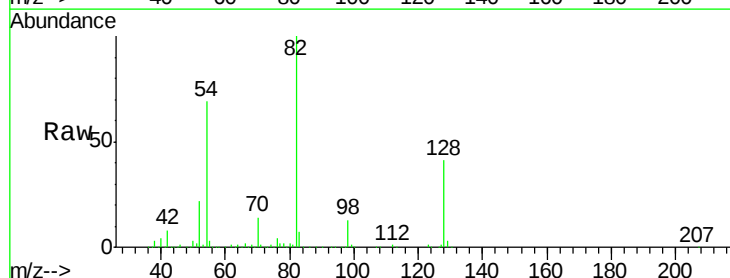
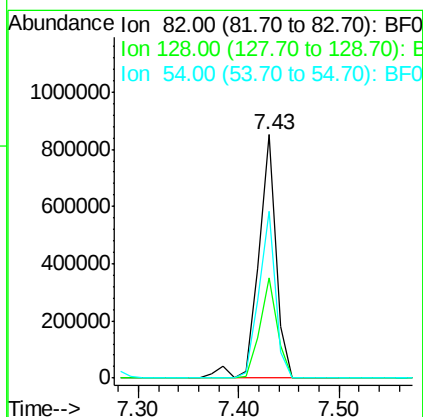
RT: 7.43 min Scan# 450

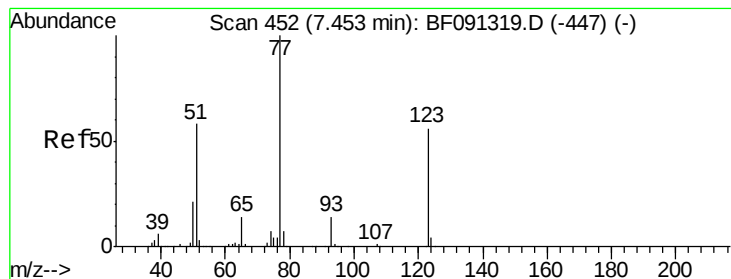
Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 82    | Resp: | 1024276 |
| Ion Ratio | Lower | Upper |         |
| 82        | 100   |       |         |
| 128       | 41.2  | 31.8  | 47.6    |
| 54        | 68.6  | 49.1  | 73.7    |





#24

Nitrobenzene

Concen: 44.94 ng

RT: 7.45 min Scan# 452

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tgt Ion: 77 Resp: 590737  
Ion Ratio Lower Upper

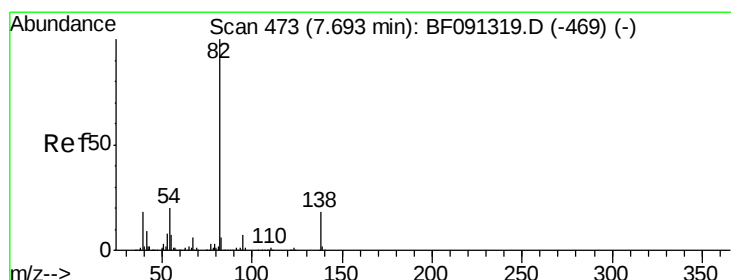
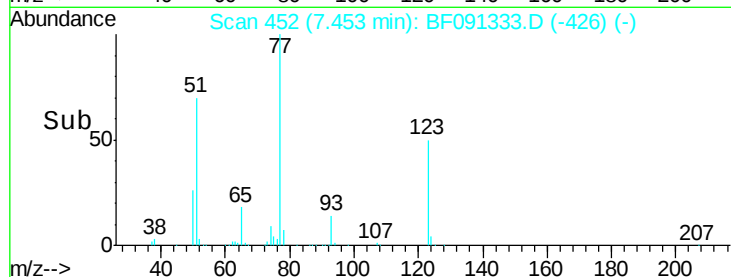
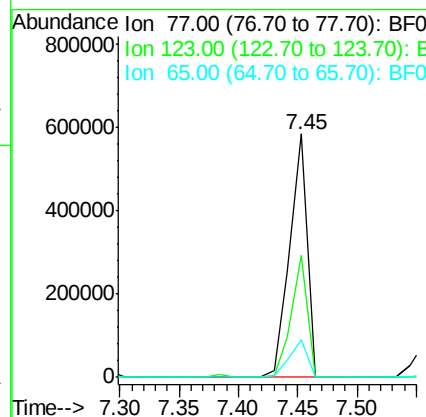
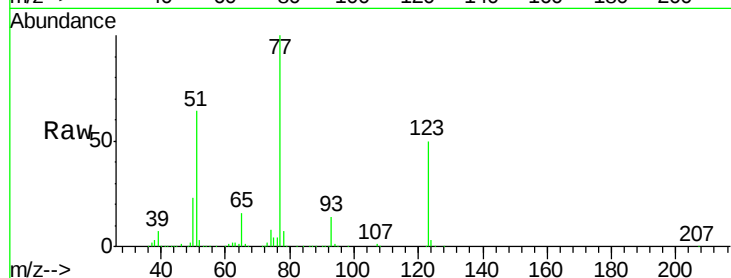
77 100

123 50.3 28.5 42.7#

65 15.6 12.5 18.7

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#25

Isophorone

Concen: 44.16 ng

RT: 7.69 min Scan# 473

Delta R.T. -0.02 min

Lab File: BF091333.D

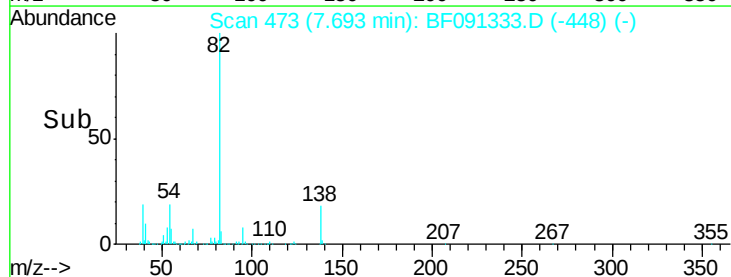
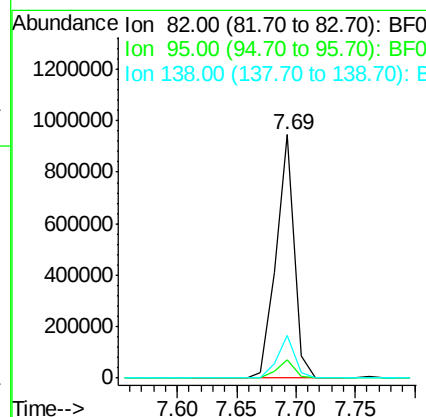
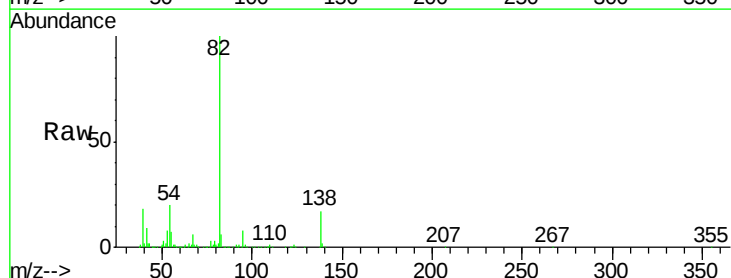
Acq: 29 Nov 2016 18:09

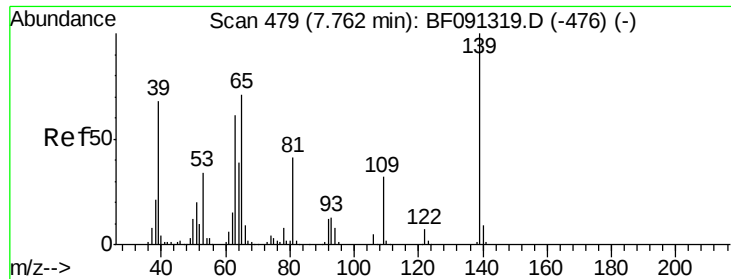
Tgt Ion: 82 Resp: 1004346  
Ion Ratio Lower Upper

82 100

95 7.7 5.7 8.5

138 17.3 13.4 20.0





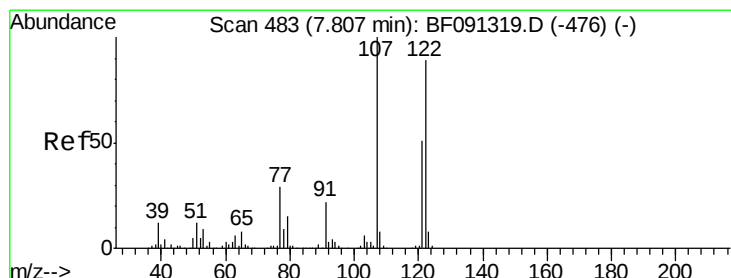
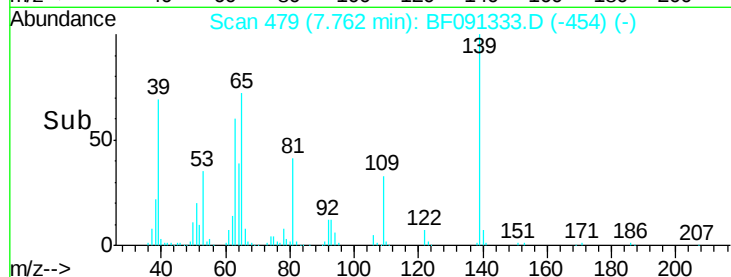
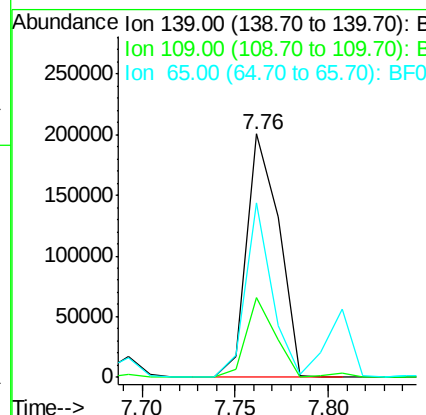
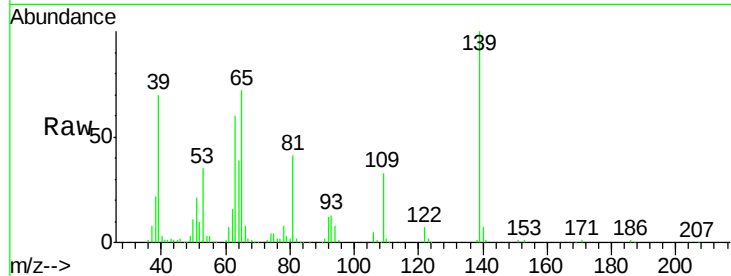
#26  
 2-Nitrophenol  
 Concen: 40.25 ng  
 RT: 7.76 min Scan# 479  
 Delta R.T. -0.02 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 139     | 100   | 241084 |       |       |
| 109     | 33.0  | 25.3   | 37.9  |       |
| 65      | 71.9  | 55.4   | 83.2  |       |

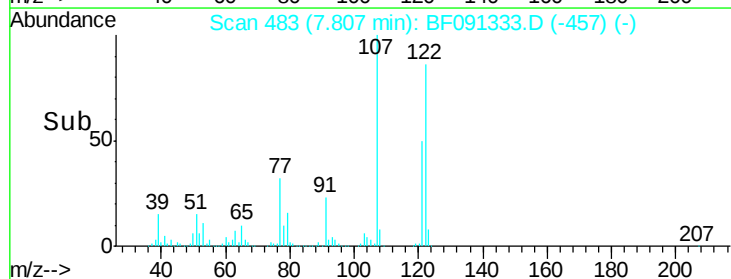
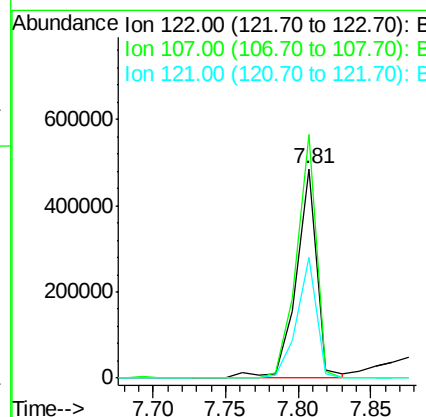
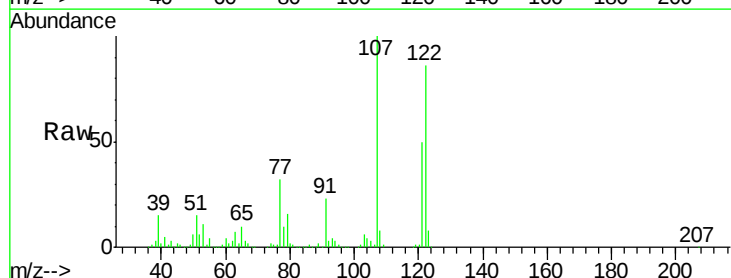
Manual Integrations  
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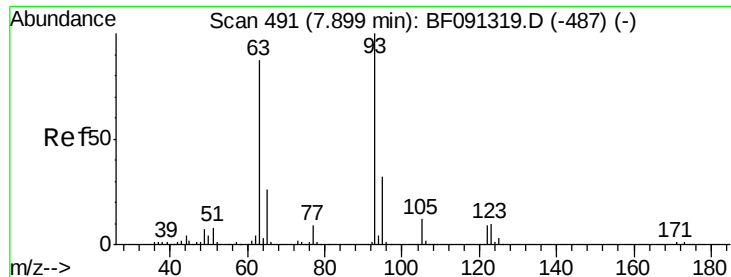
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 11/30/2016 10:33:53 AM



#27  
 2,4-Dimethylphenol  
 Concen: 42.91 ng  
 RT: 7.81 min Scan# 483  
 Delta R.T. -0.01 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 122     | 100   | 480891 |       |       |
| 107     | 116.3 | 96.8   | 145.2 |       |
| 121     | 57.9  | 47.7   | 71.5  |       |





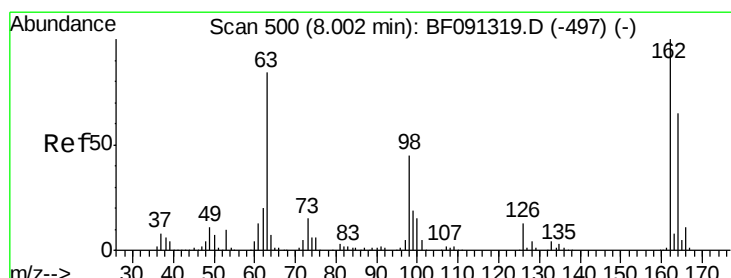
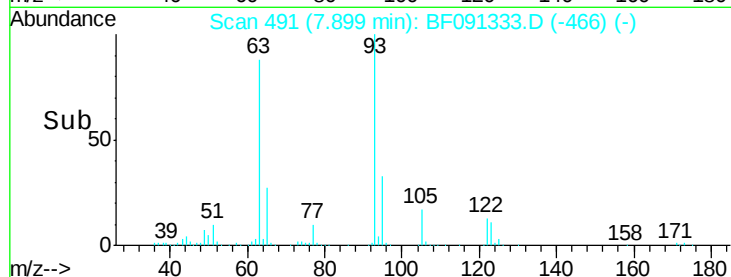
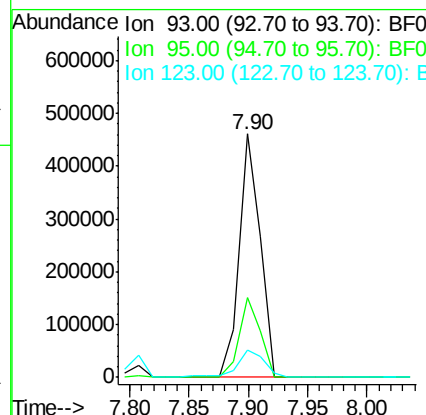
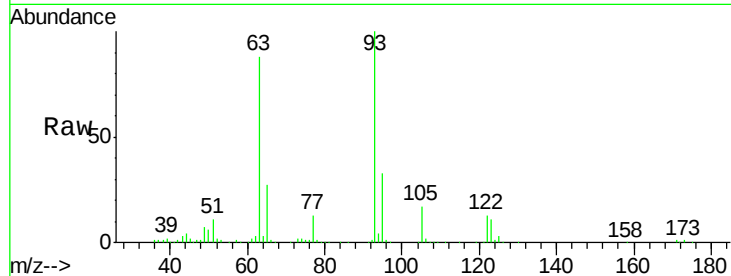
#28  
bis(2-Chloroethoxy)methane  
Concen: 41.32 ng  
RT: 7.90 min Scan# 491  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 93      | 100   | 565770 |       |       |
| 95      | 33.0  | 26.0   | 39.0  |       |
| 123     | 11.0  | 8.6    | 12.8  |       |

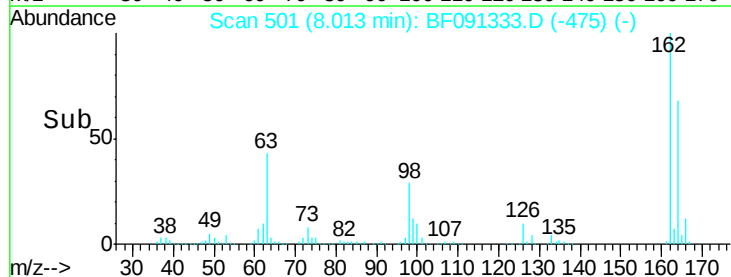
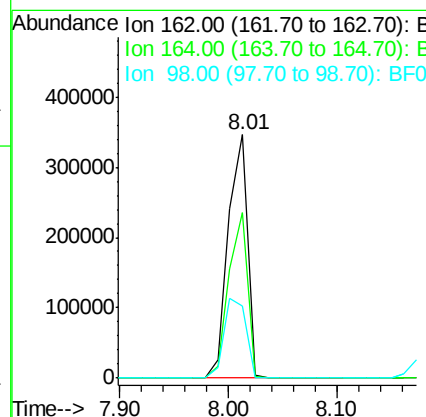
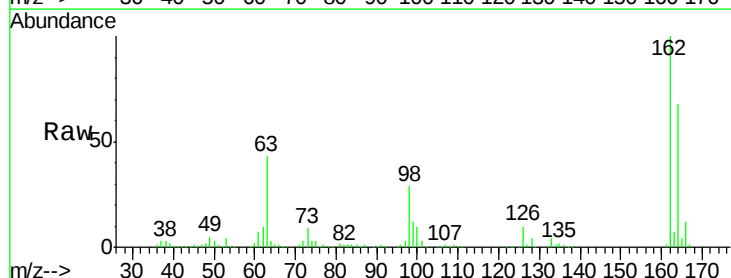
Manual Integrations  
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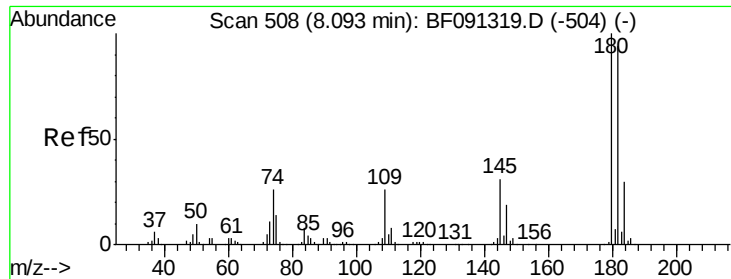
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11/30/2016 10:33:53 AM



#29  
2,4-Dichlorophenol  
Concen: 43.25 ng  
RT: 8.01 min Scan# 501  
Delta R.T. -0.01 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 426319 |       |       |
| 164     | 67.9  | 45.0   | 85.0  |       |
| 98      | 29.4  | 21.3   | 61.3  |       |





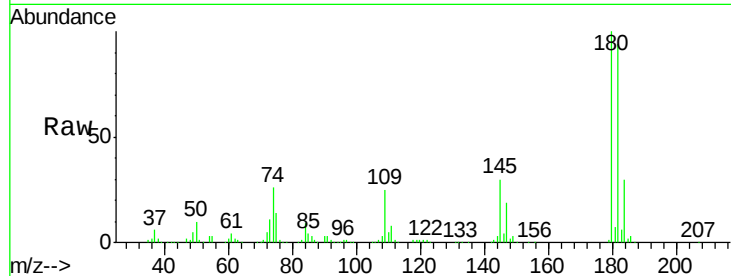
#30  
1,2,4-Trichlorobenzene  
Concen: 42.03 ng  
RT: 8.09 min Scan# 508  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

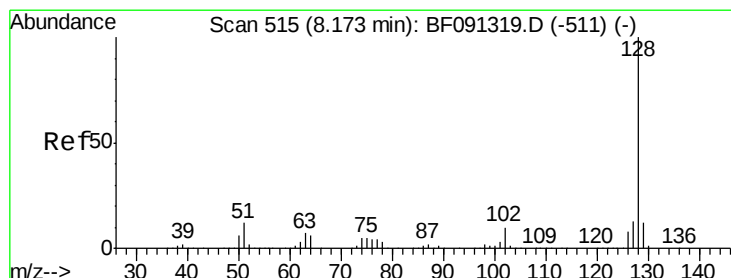
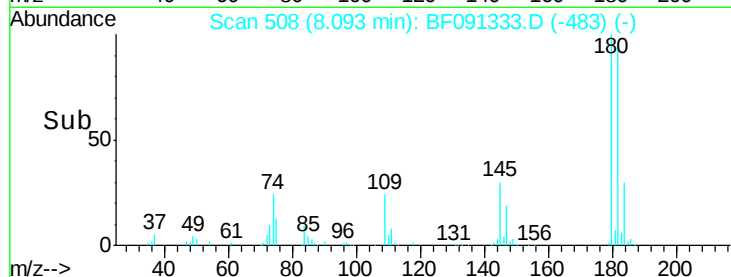
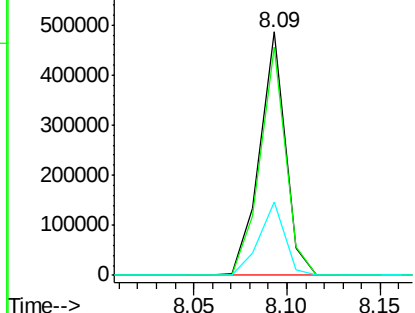
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.7  | 75.8  | 113.8 |
| 145     | 30.1  | 27.0  | 40.4  |

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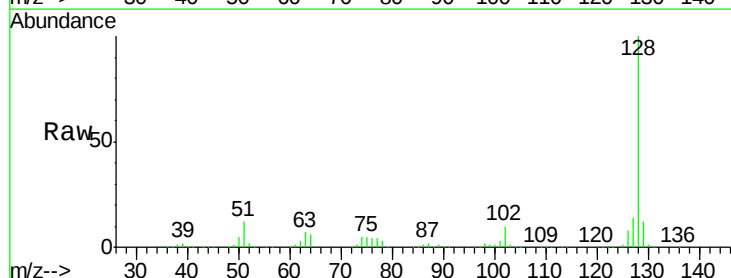


Abundance Ion 180.00 (179.70 to 180.70): E  
Ion 182.00 (181.70 to 182.70): E  
Ion 145.00 (144.70 to 145.70): E

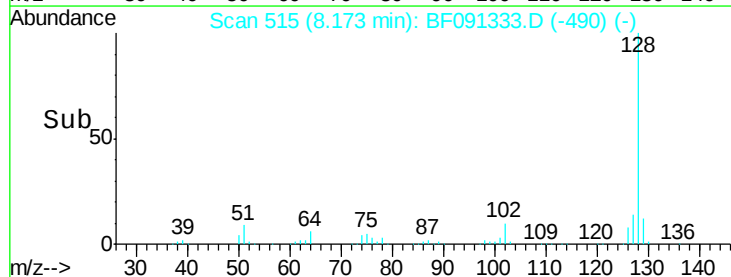
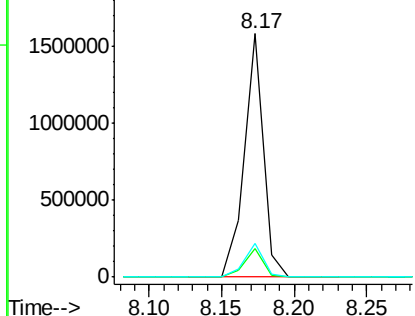


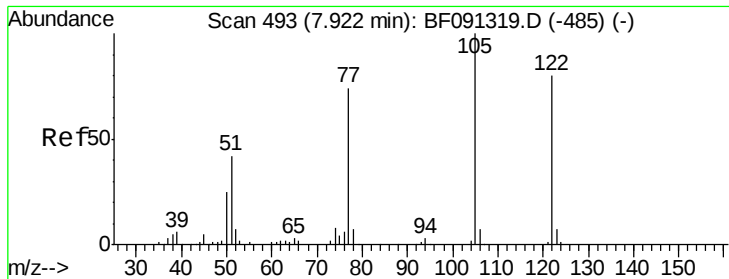
#31  
Naphthalene  
Concen: 42.29 ng  
RT: 8.17 min Scan# 515  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.8  | 9.1   | 13.7  |
| 127     | 13.9  | 11.0  | 16.4  |



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





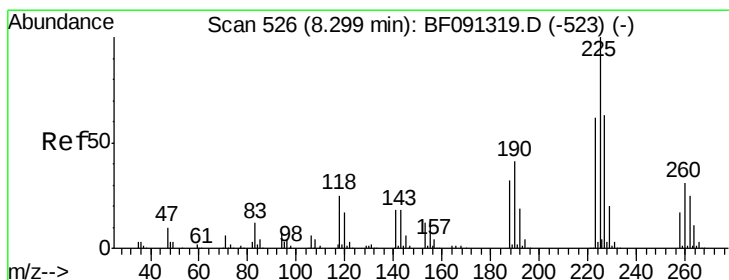
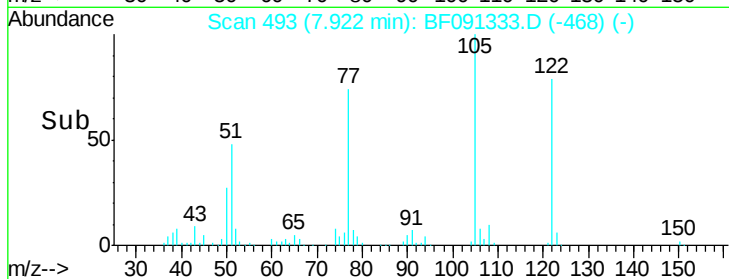
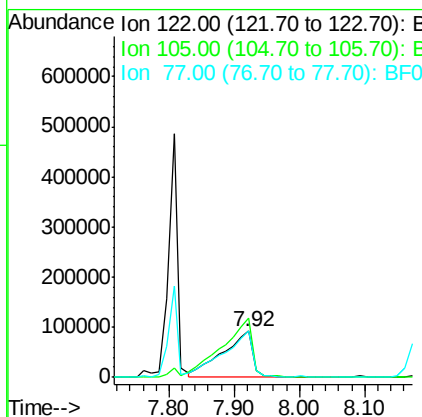
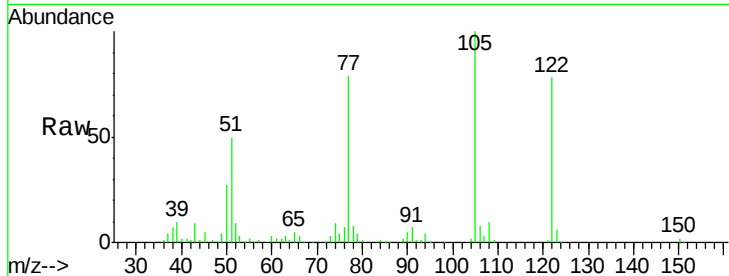
#32  
Benzoic acid  
Concen: 36.17 ng  
RT: 7.92 min Scan# 493  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 122     | 100   | 298794 |       |       |
| 105     | 127.7 | 113.0  | 153.0 |       |
| 77      | 100.8 | 82.0   | 122.0 |       |

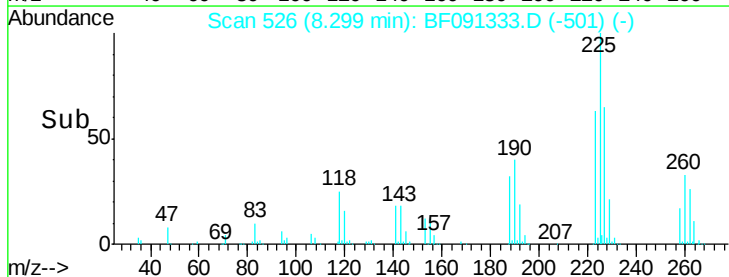
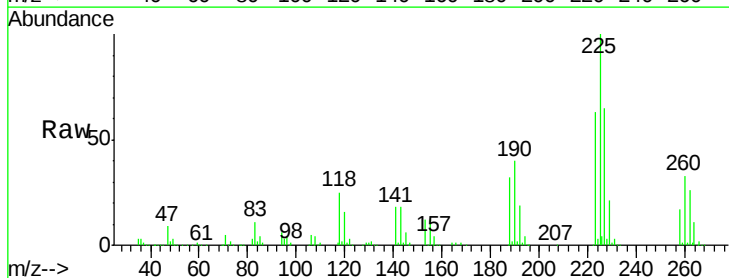
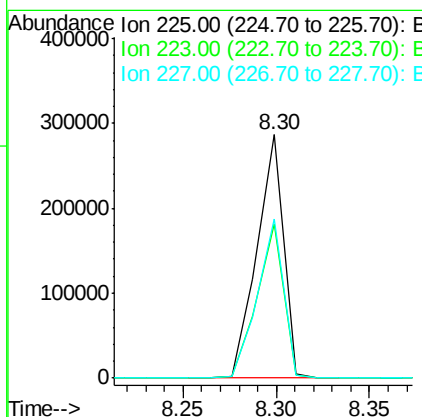
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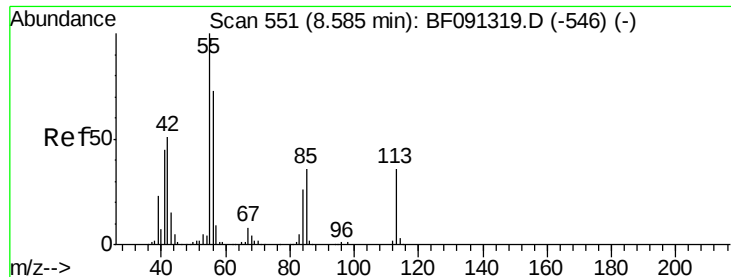
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#34  
Hexachlorobutadiene  
Concen: 41.52 ng  
RT: 8.30 min Scan# 526  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 225     | 100   | 282171 |       |       |
| 223     | 63.5  | 49.8   | 74.6  |       |
| 227     | 65.5  | 52.6   | 79.0  |       |





#35

Caprolactam

Concen: 33.93 ng m

RT: 8.58 min Scan# 551

Delta R.T. -0.03 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

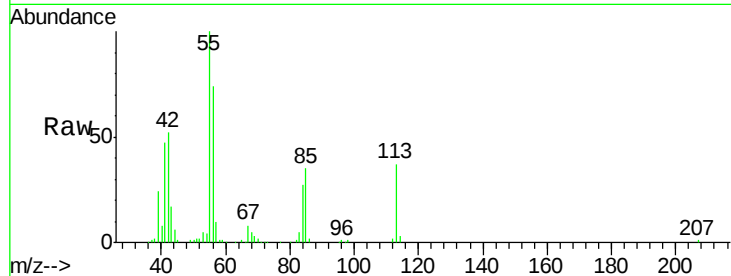
ClientSampleId :

SOIL-CUTTINGSMSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 96125 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 55        | 273.3 | 239.8 | 279.8 |
| 56        | 202.2 | 165.6 | 205.6 |

Manual Integrations  
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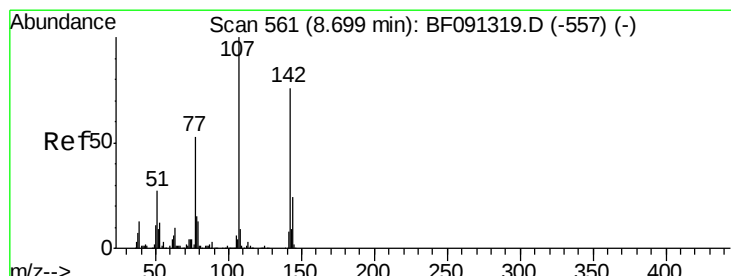
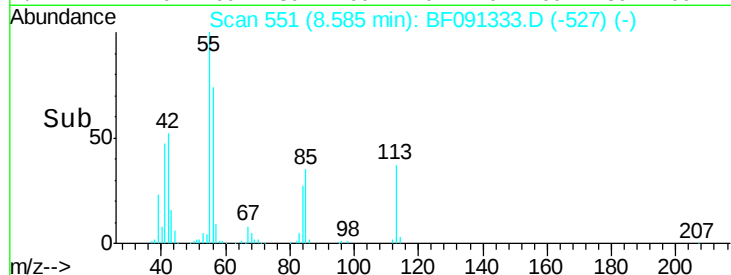
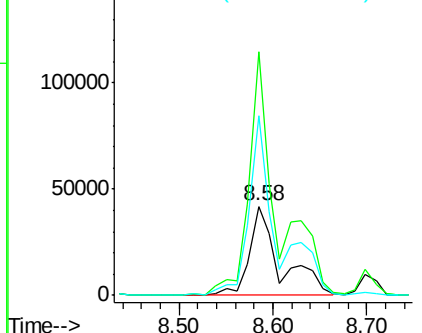
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Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#36

4-Chloro-3-methylphenol

Concen: 40.14 ng

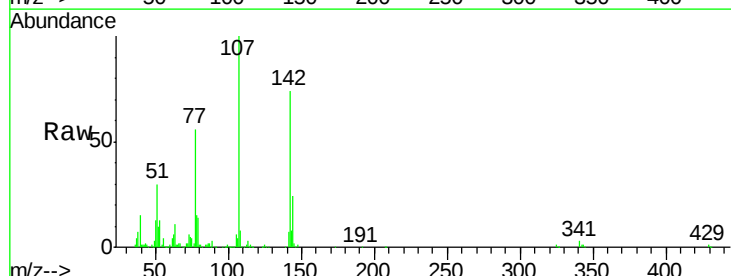
RT: 8.70 min Scan# 561

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

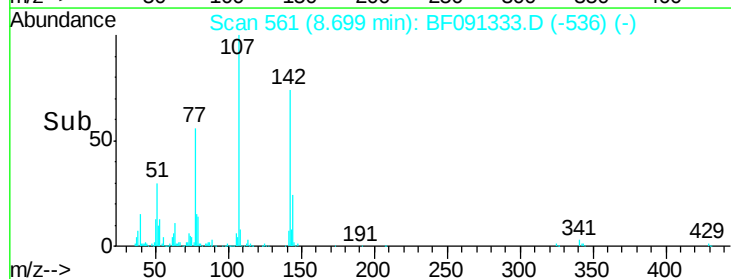
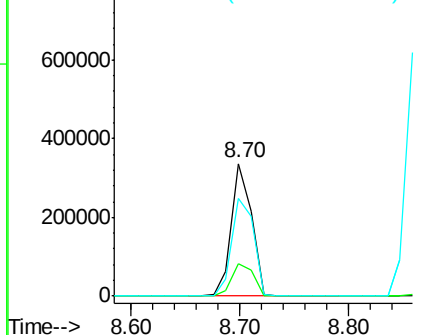
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 427182 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 144       | 24.0  | 18.9  | 28.3   |
| 142       | 74.0  | 58.5  | 87.7   |

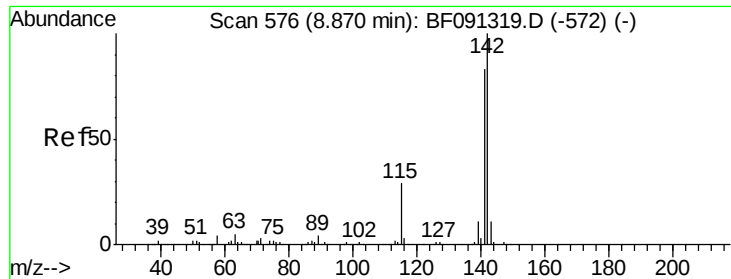


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





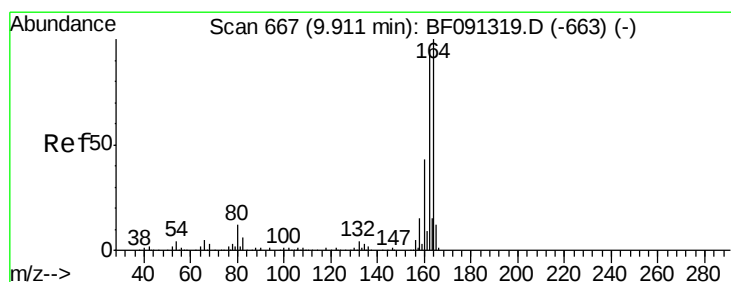
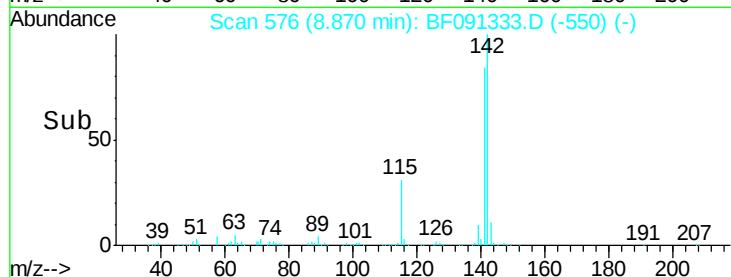
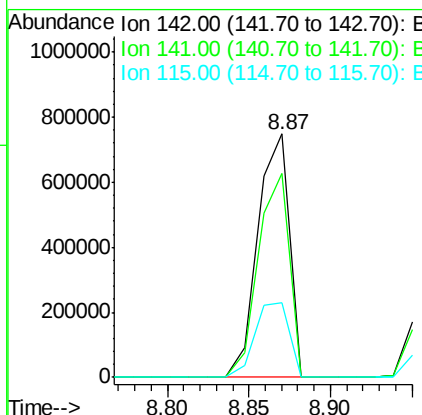
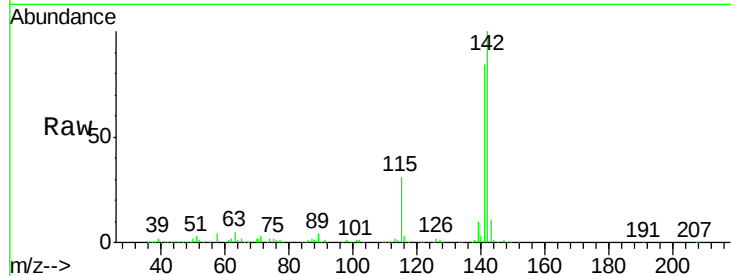
#37  
 2-Methylnaphthalene  
 Concen: 43.17 ng  
 RT: 8.87 min Scan# 576  
 Delta R.T. -0.01 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGSMSD

Tgt Ion:142 Resp: 1002874  
 Ion Ratio Lower Upper  
 142 100  
 141 83.9 71.7 107.5  
 115 30.8 25.0 37.6

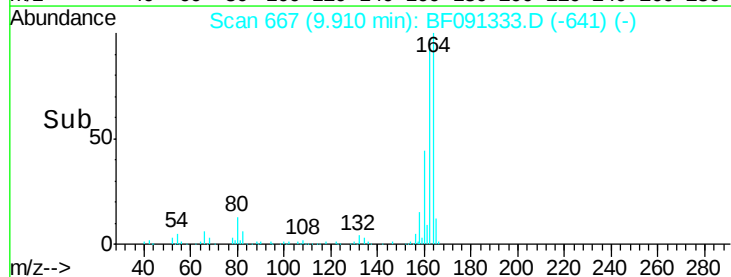
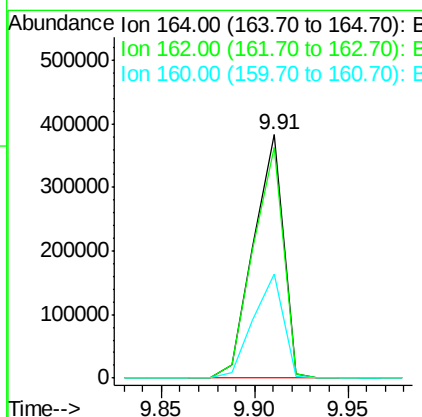
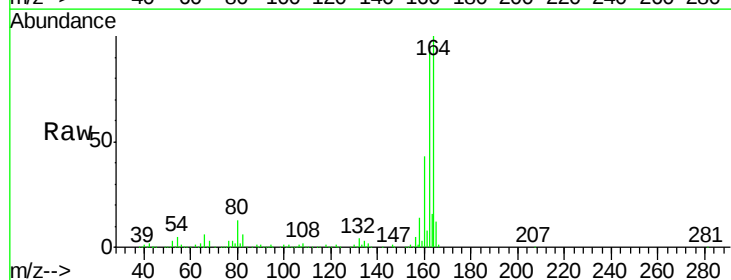
Manual Integrations  
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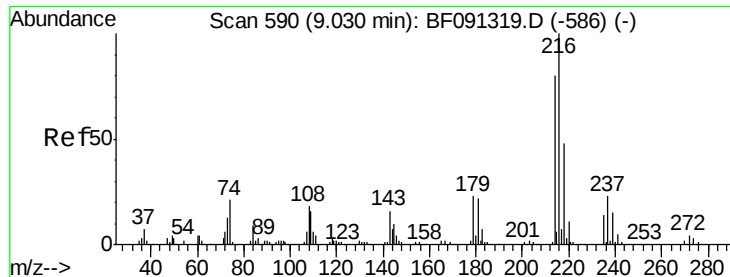
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.91 min Scan# 667  
 Delta R.T. -0.01 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Tgt Ion:164 Resp: 422447  
 Ion Ratio Lower Upper  
 164 100  
 162 94.6 82.6 124.0  
 160 42.8 36.7 55.1





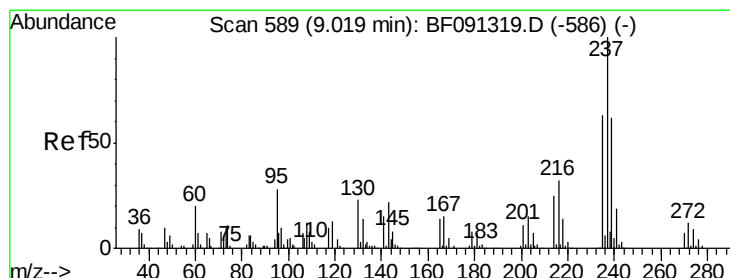
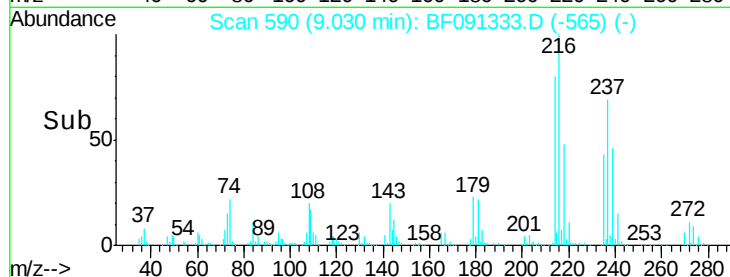
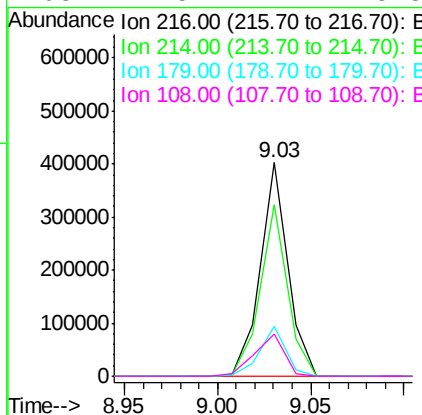
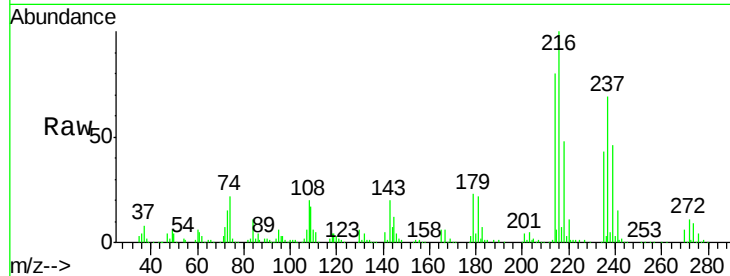
#39  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 34.44 ng  
 RT: 9.03 min Scan# 590  
 Delta R.T. -0.02 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGSMSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 216   | Resp: | 410108 |
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 79.6  | 63.8  | 95.8   |
| 179       | 21.9  | 18.2  | 27.2   |
| 108       | 21.5  | 17.2  | 25.8   |

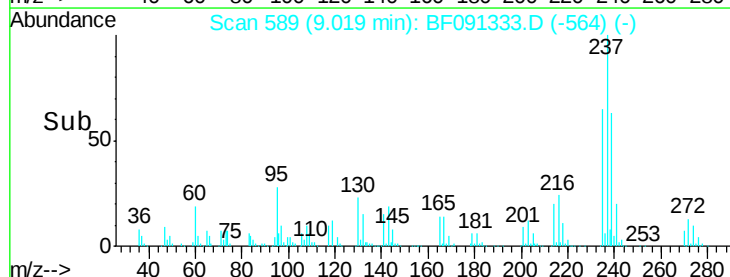
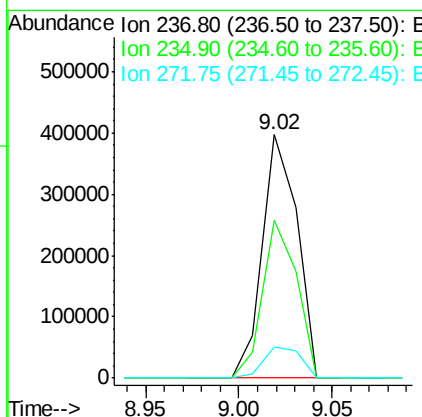
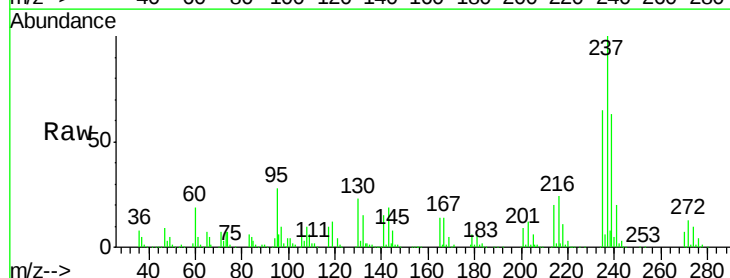
Manual Integrations  
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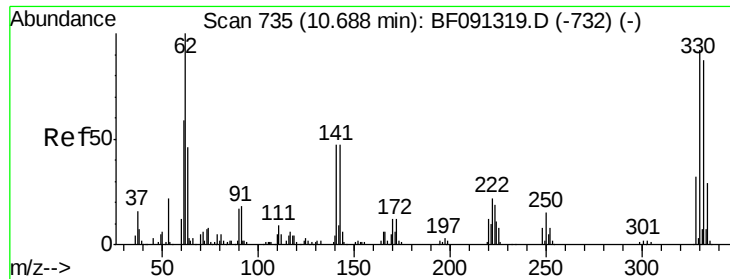
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#40  
 Hexachlorocyclopentadiene  
 Concen: 92.87 ng  
 RT: 9.02 min Scan# 589  
 Delta R.T. -0.02 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 237   | Resp: | 512650 |
| Ion Ratio | Lower | Upper |        |
| 237       | 100   |       |        |
| 235       | 64.6  | 43.9  | 83.9   |
| 272       | 12.7  | 0.0   | 33.1   |





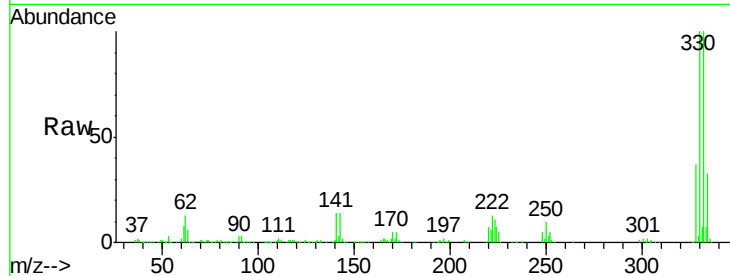
#41  
 2,4,6-Tribromophenol  
 Concen: 123.53 ng  
 RT: 10.70 min Scan# 736  
 Delta R.T. -0.01 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
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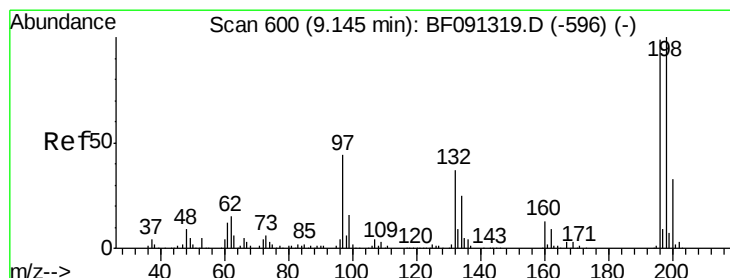
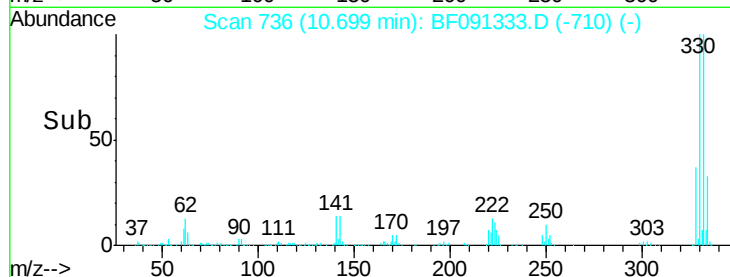
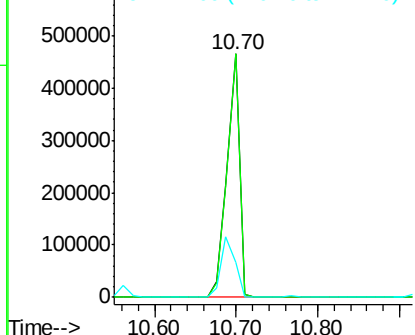
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 494044 |       |       |
| 332     | 99.4  | 76.2   | 114.4 |       |
| 141     | 28.5  | 33.6   | 50.4  |       |

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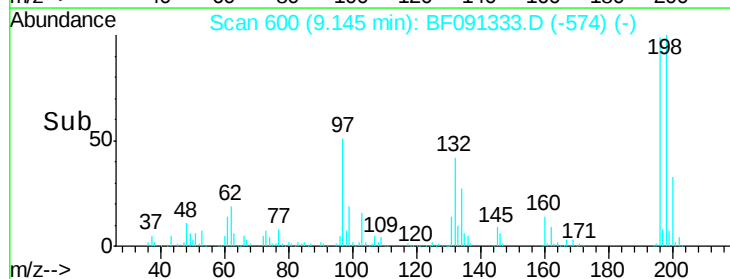
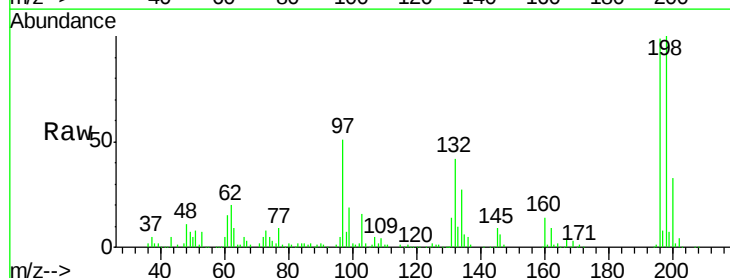
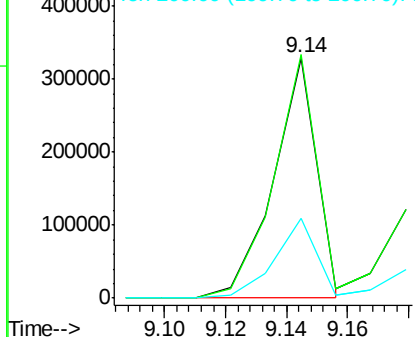
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

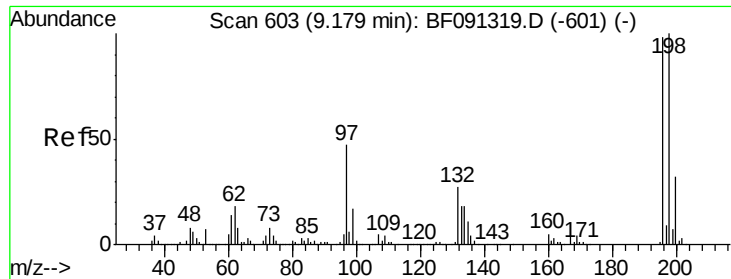


#42  
 2,4,6-Trichlorophenol  
 Concen: 41.40 ng m  
 RT: 9.14 min Scan# 600  
 Delta R.T. -0.01 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 320459 |       |       |
| 198     | 101.4 | 77.4   | 116.0 |       |
| 200     | 33.1  | 25.2   | 37.8  |       |

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





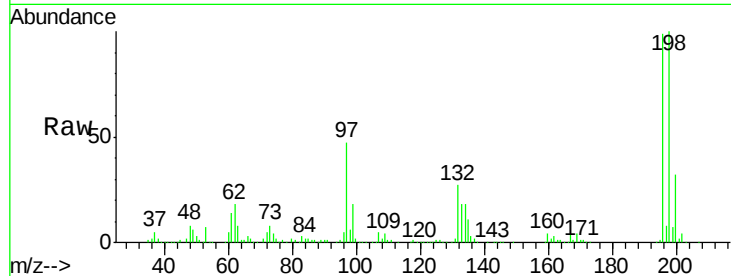
#43  
 2,4,5-Trichlorophenol  
 Concen: 42.17 ng m  
 RT: 9.19 min Scan# 604  
 Delta R.T. 0.01 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGSMSD

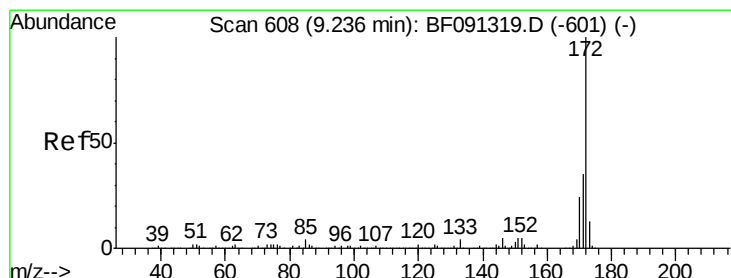
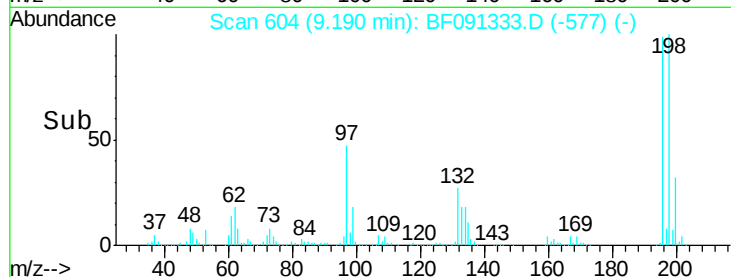
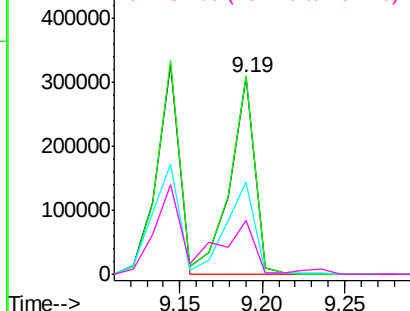
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 327064 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 100.6 | 77.0  | 115.6  |
| 97        | 47.0  | 33.5  | 50.3   |
| 132       | 27.0  | 20.5  | 30.7   |

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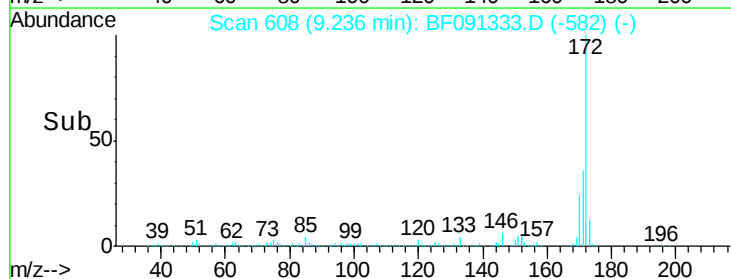
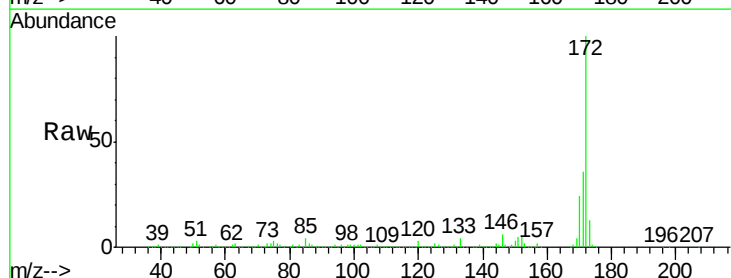
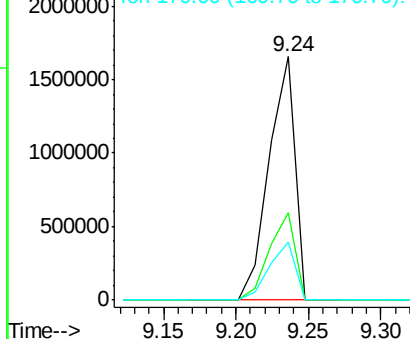
Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 97.00 (96.70 to 97.70): BF0  
 Ion 132.00 (131.70 to 132.70): E

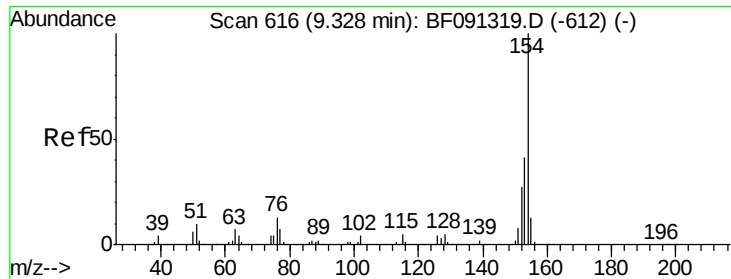


#44  
 2-Fluorobiphenyl  
 Concen: 87.93 ng  
 RT: 9.24 min Scan# 608  
 Delta R.T. -0.00 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 172   | Resp: | 2051456 |
| Ion Ratio | Lower | Upper |         |
| 172       | 100   |       |         |
| 171       | 36.0  | 29.4  | 44.0    |
| 170       | 24.0  | 19.7  | 29.5    |

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





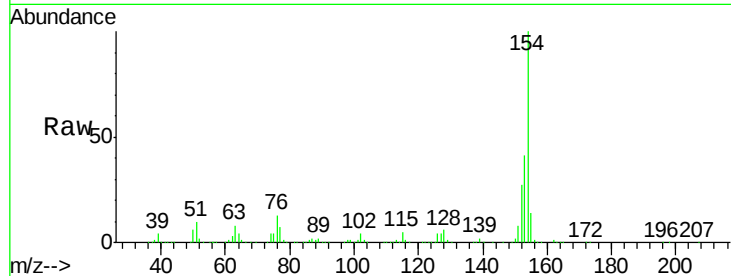
#45  
 1,1'-Biphenyl  
 Concen: 35.95 ng  
 RT: 9.33 min Scan# 616  
 Delta R.T. -0.02 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
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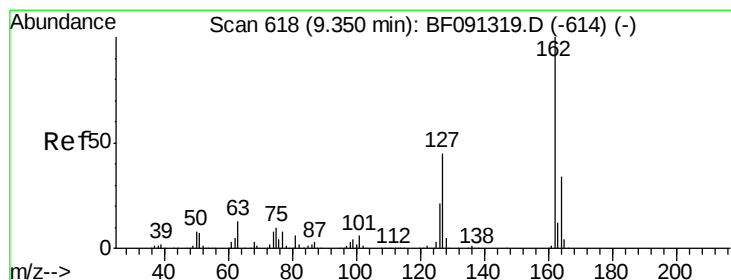
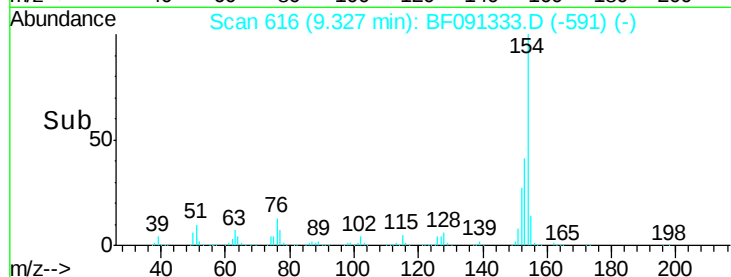
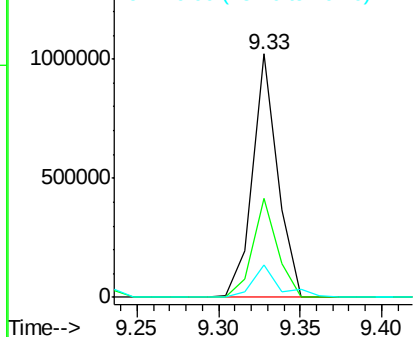
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 40.7  | 20.6  | 60.6  |
| 76      | 13.1  | 0.0   | 36.6  |

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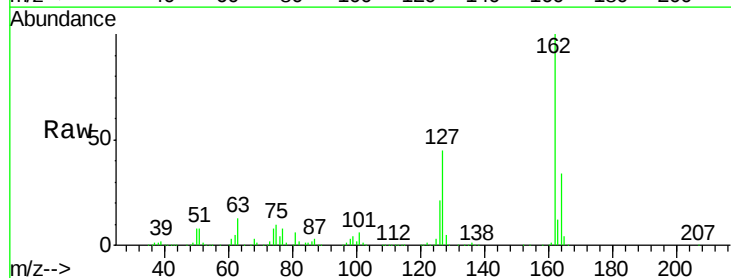


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BF0

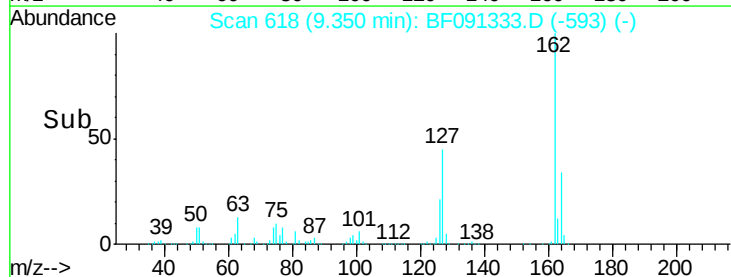
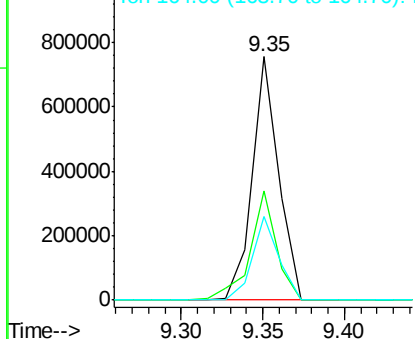


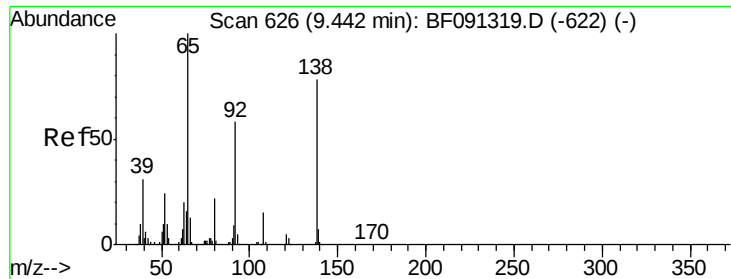
#46  
 2-Chloronaphthalene  
 Concen: 37.45 ng  
 RT: 9.35 min Scan# 618  
 Delta R.T. -0.02 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 127     | 44.9  | 34.3  | 51.5  |
| 164     | 34.4  | 26.6  | 40.0  |



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





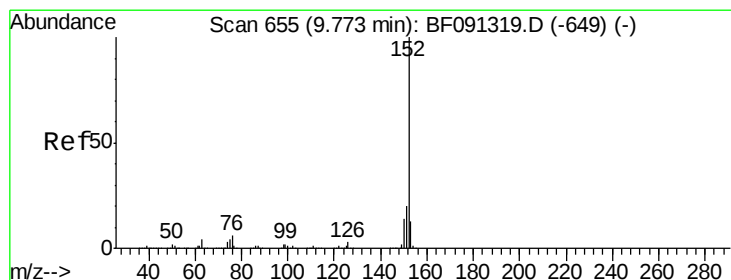
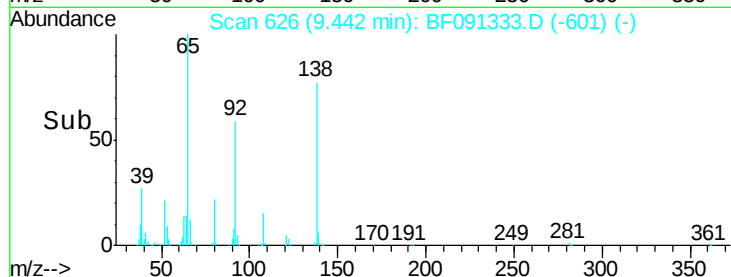
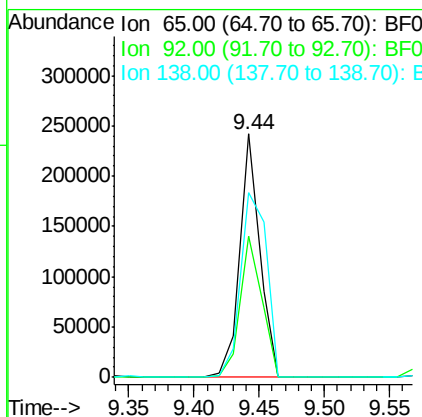
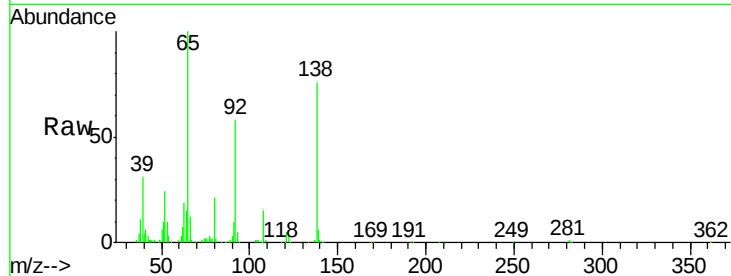
#47  
 2-Nitroaniline  
 Concen: 31.61 ng  
 RT: 9.44 min Scan# 626  
 Delta R.T. -0.02 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 92      | 57.9  | 53.6  | 80.4  |
| 138     | 75.8  | 91.0  | 136.6 |

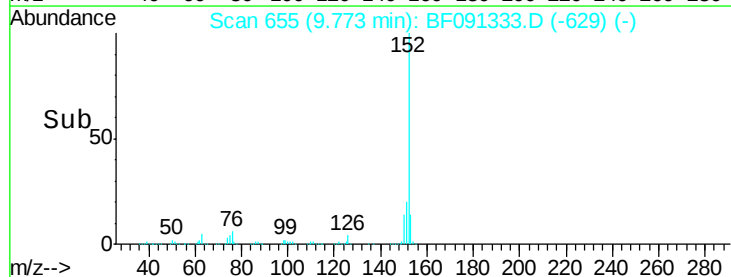
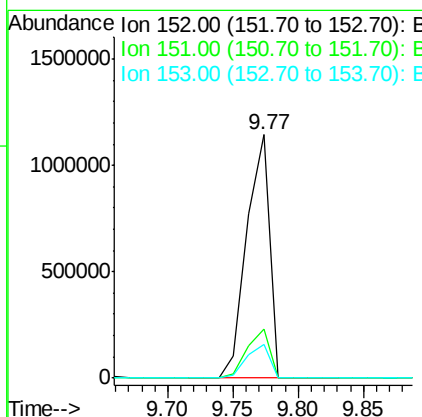
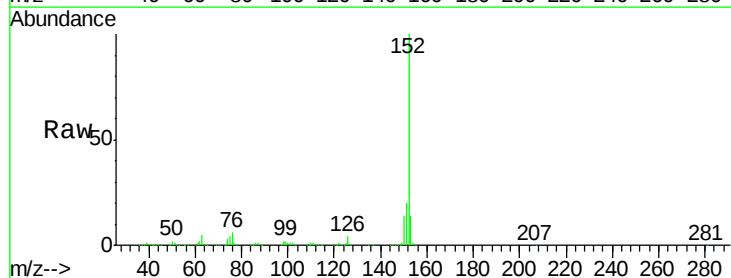
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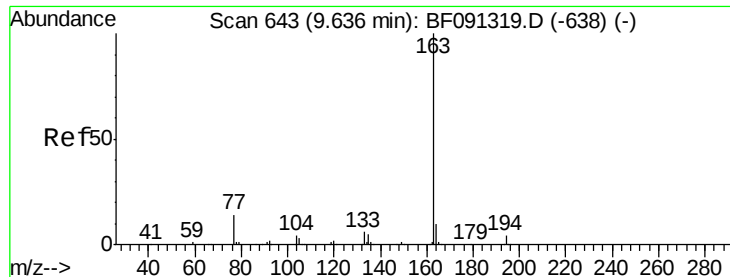
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#48  
 Acenaphthylene  
 Concen: 39.12 ng  
 RT: 9.77 min Scan# 655  
 Delta R.T. -0.01 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.4  | 16.6  | 24.8  |
| 153     | 13.6  | 10.7  | 16.1  |





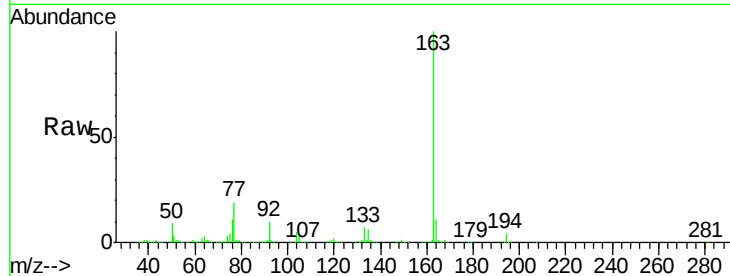
#49  
Dimethylphthalate  
Concen: 43.71 ng  
RT: 9.64 min Scan# 643  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

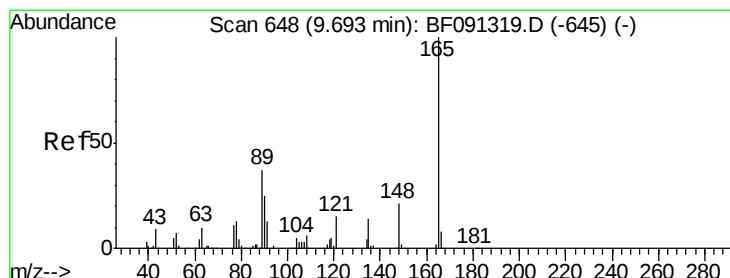
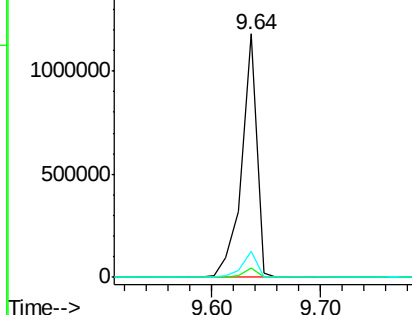
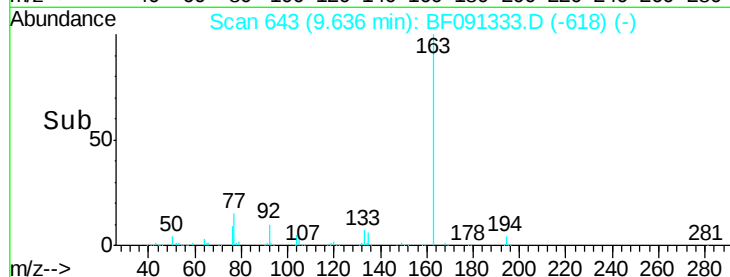
Tgt Ion:163 Resp: 1117952  
Ion Ratio Lower Upper  
163 100  
194 3.9 3.0 4.4  
164 10.7 7.8 11.8

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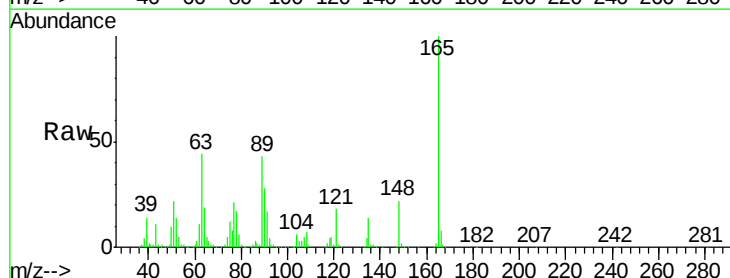


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

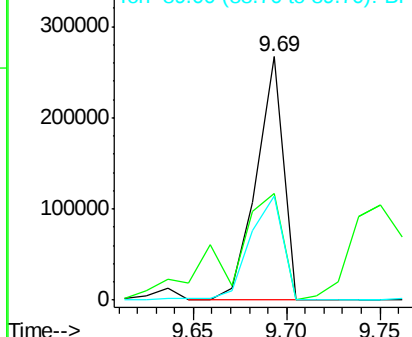
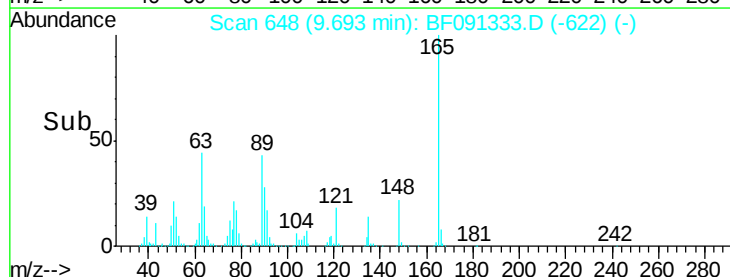


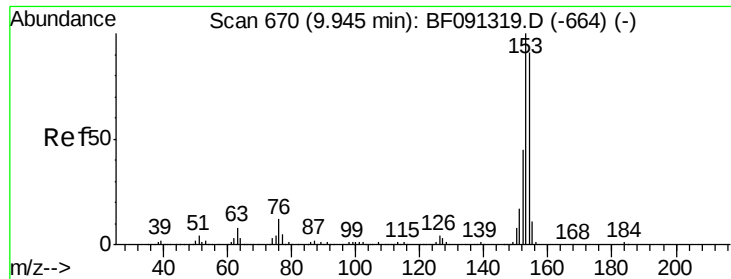
#50  
2,6-Dinitrotoluene  
Concen: 46.70 ng  
RT: 9.69 min Scan# 648  
Delta R.T. -0.01 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Tgt Ion:165 Resp: 267010  
Ion Ratio Lower Upper  
165 100  
63 43.7 59.4 89.0#  
89 42.8 50.8 76.2#



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: 43.89 ng

RT: 9.94 min Scan# 670

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tgt Ion:154 Resp: 1054288

Ion Ratio Lower Upper

154 100

153 108.3 91.0 136.6

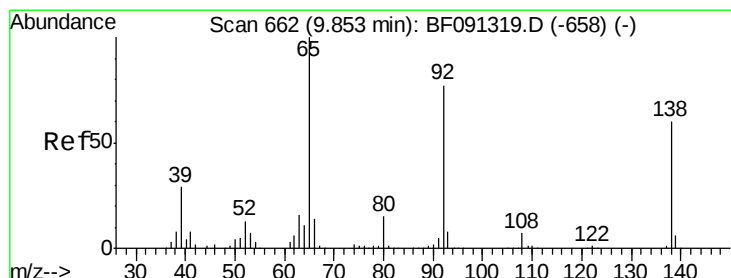
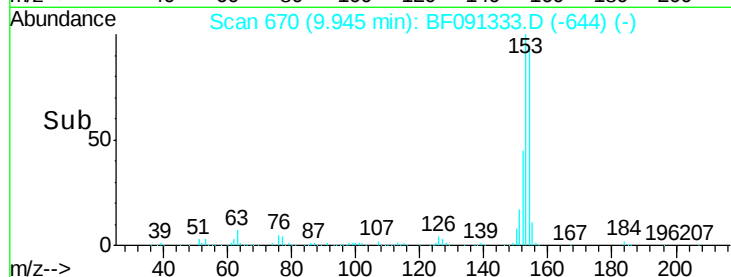
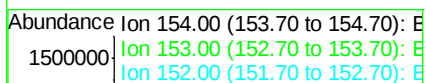
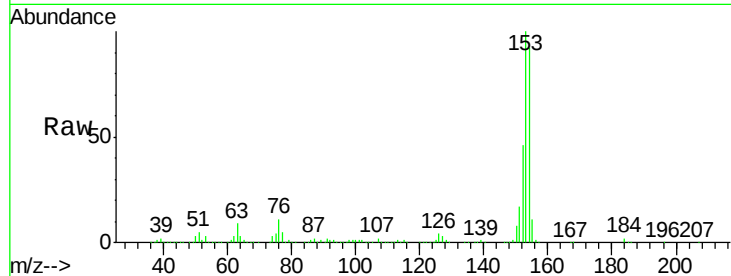
152 49.5 44.2 66.2

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#52

3-Nitroaniline

Concen: 5.73 ng

RT: 9.85 min Scan# 662

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

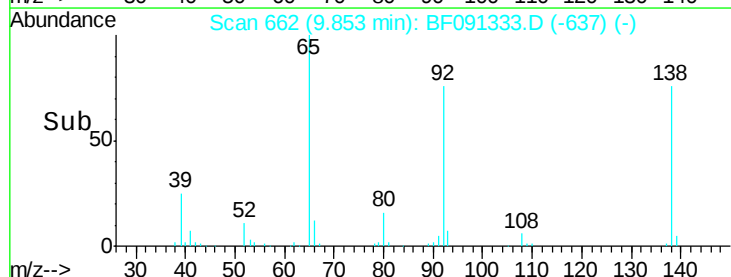
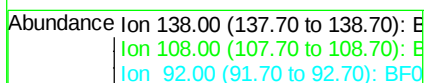
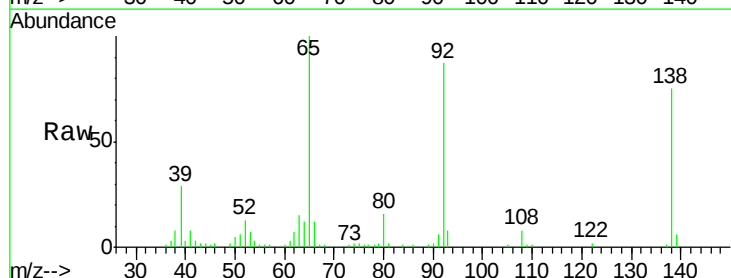
Tgt Ion:138 Resp: 37891

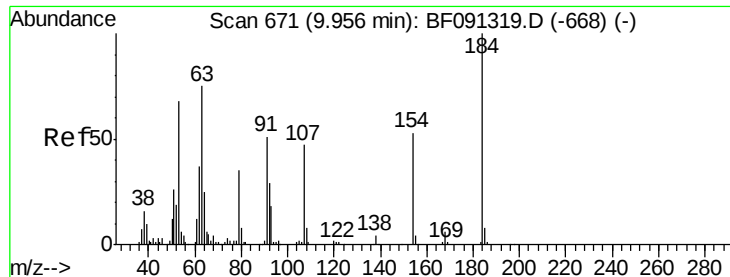
Ion Ratio Lower Upper

138 100

108 10.6 8.1 12.1

92 115.5 92.5 138.7





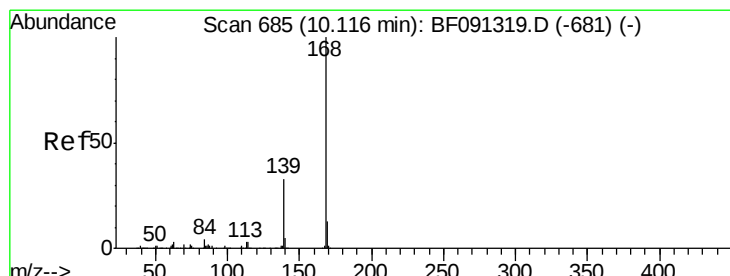
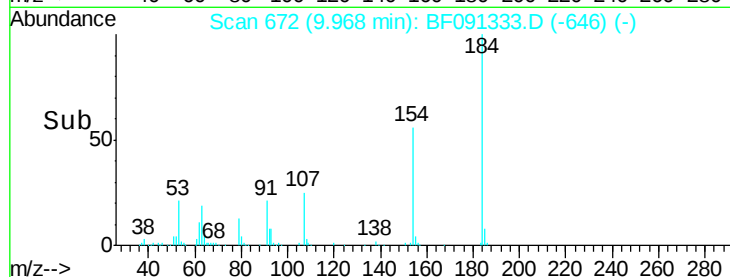
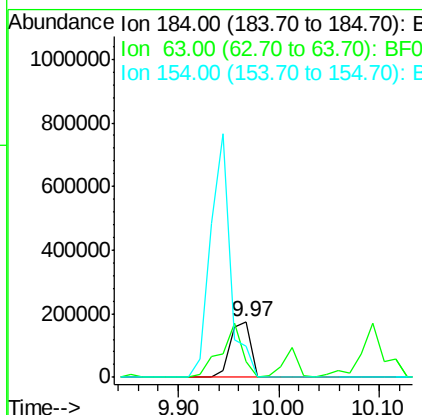
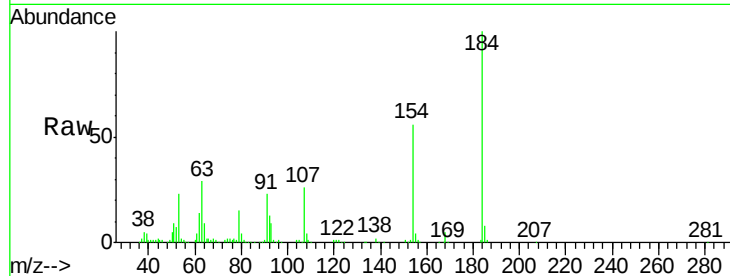
#53  
2,4-Dinitrophenol  
Concen: 99.48 ng  
RT: 9.97 min Scan# 672  
Delta R.T. -0.01 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 63      | 28.6  | 58.3  | 87.5# |
| 154     | 55.9  | 48.6  | 73.0  |

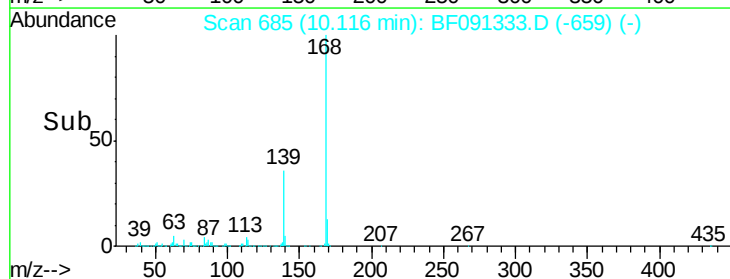
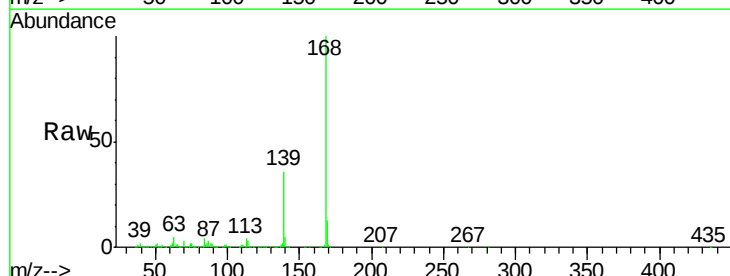
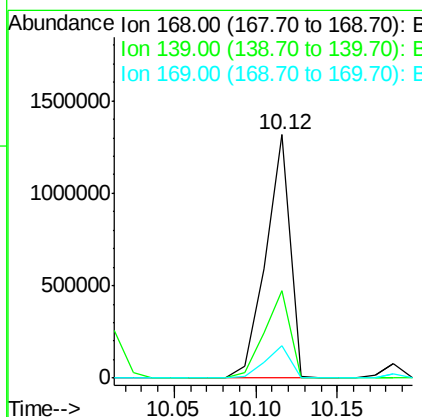
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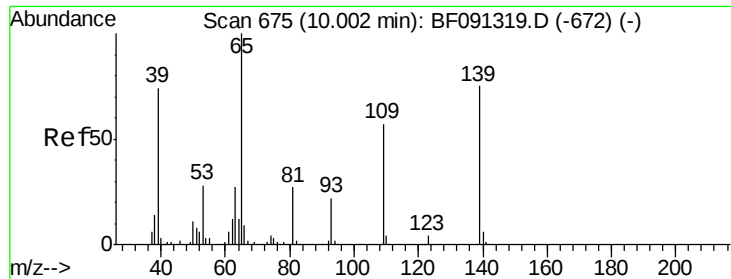
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#54  
Dibenzofuran  
Concen: 42.37 ng  
RT: 10.12 min Scan# 685  
Delta R.T. -0.00 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 36.0  | 33.4  | 50.2  |
| 169     | 13.5  | 11.1  | 16.7  |





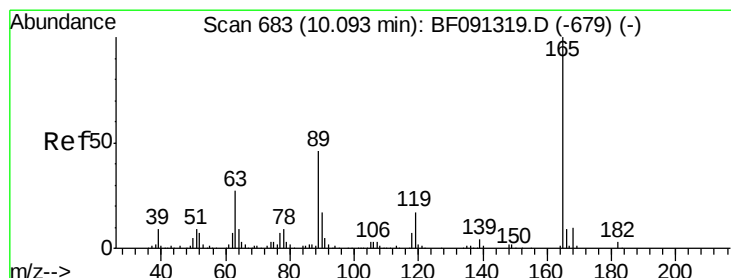
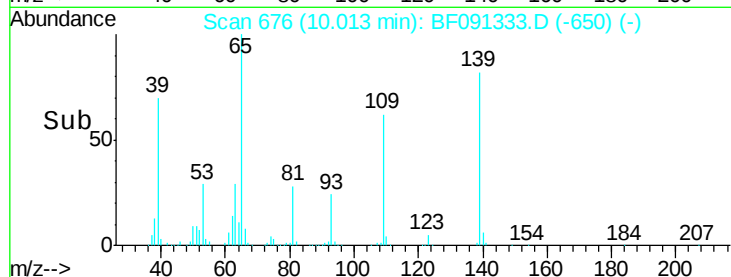
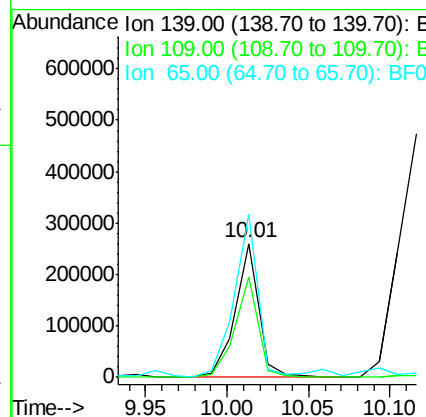
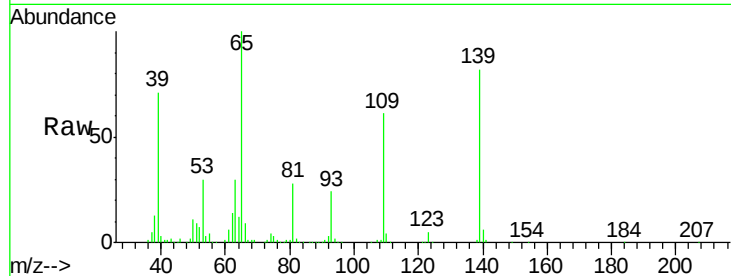
#55  
4-Nitrophenol  
Concen: 54.66 ng  
RT: 10.01 min Scan# 676  
Delta R.T. -0.01 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

Tgt Ion:139 Resp: 261258  
Ion Ratio Lower Upper  
139 100  
109 74.8 54.9 94.9  
65 121.6 102.2 142.2

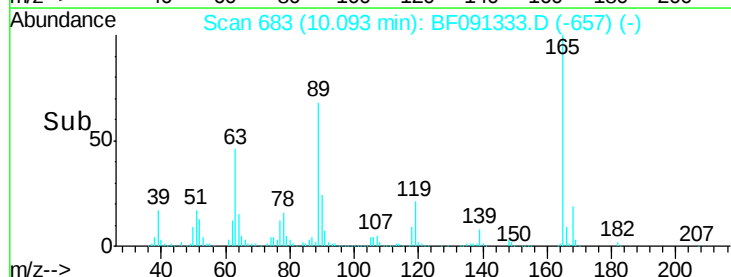
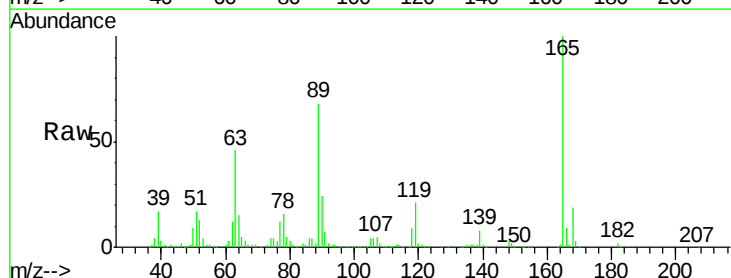
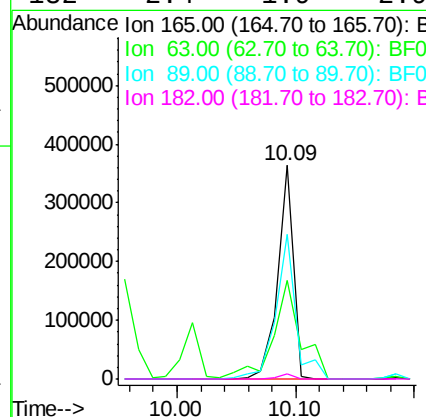
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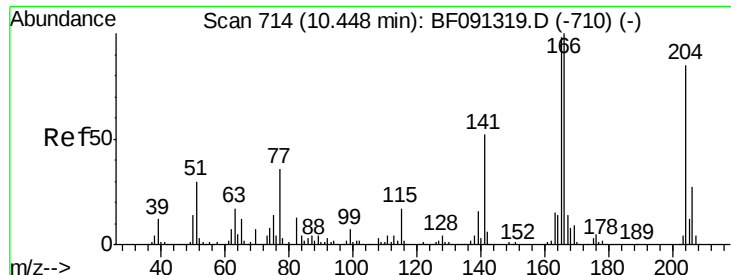
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#56  
2,4-Dinitrotoluene  
Concen: 45.44 ng  
RT: 10.09 min Scan# 683  
Delta R.T. -0.01 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Tgt Ion:165 Resp: 336983  
Ion Ratio Lower Upper  
165 100  
63 46.3 29.0 43.4#  
89 67.6 43.1 64.7#  
182 2.4 1.9 2.9





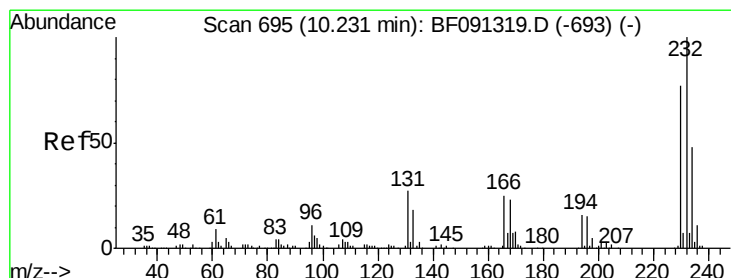
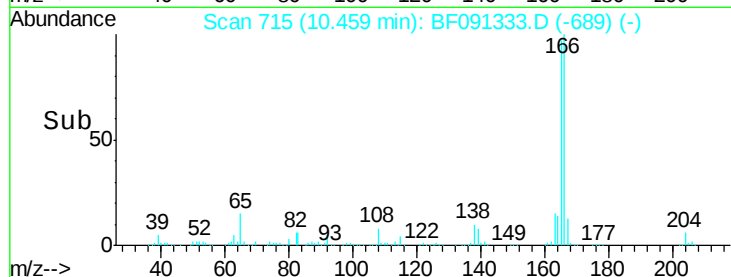
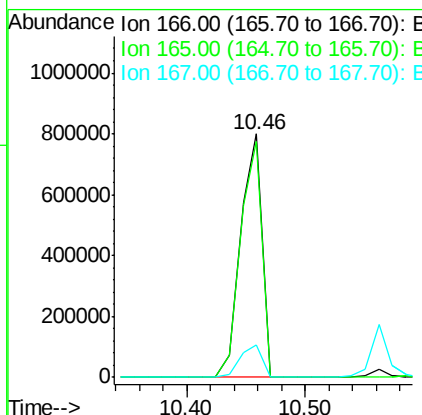
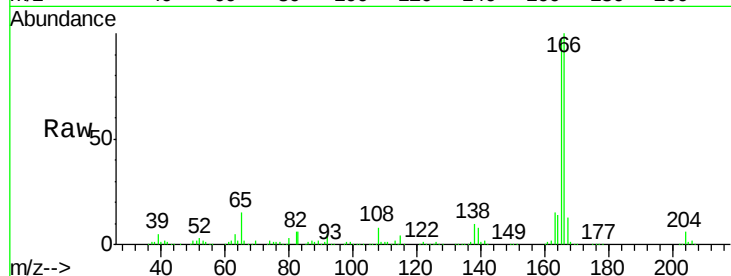
#57  
**Fluorene**  
 Concen: 40.34 ng  
 RT: 10.46 min Scan# 715  
 Delta R.T. -0.01 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 996041 |       |       |
| 165     | 97.0  | 80.0   | 120.0 |       |
| 167     | 13.1  | 10.8   | 16.2  |       |

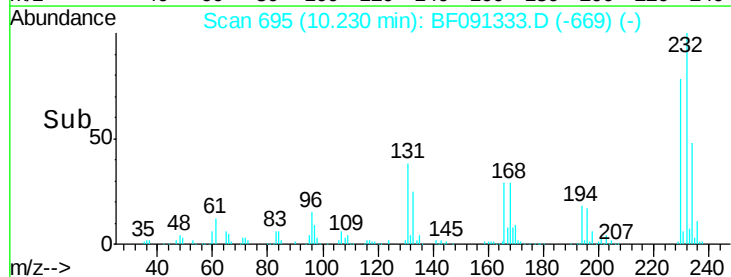
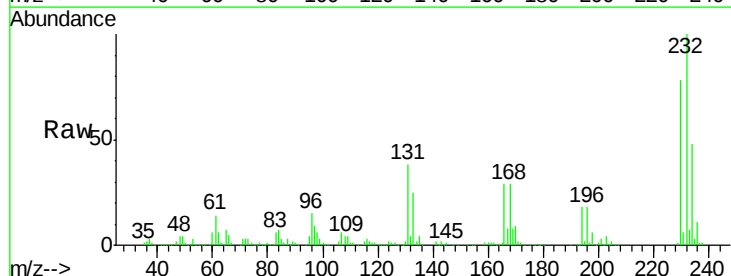
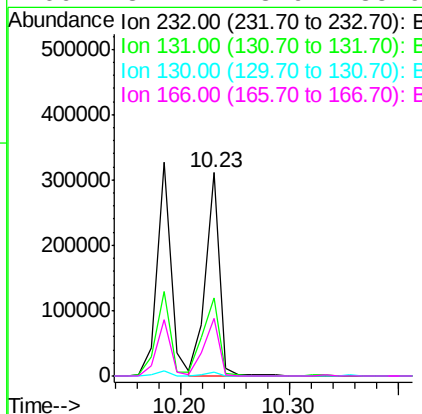
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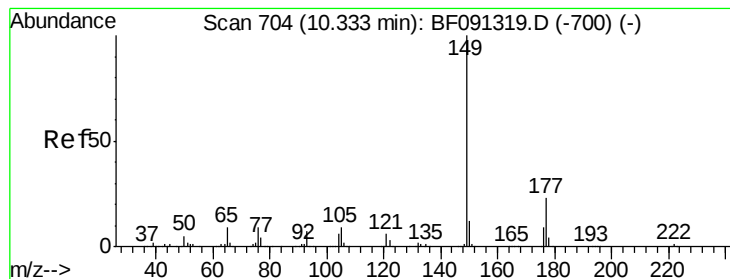
sohil  
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#58  
**2,3,4,6-Tetrachlorophenol**  
 Concen: 42.62 ng  
 RT: 10.23 min Scan# 695  
 Delta R.T. -0.01 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 232     | 100   | 282281 |       |       |
| 131     | 44.8  | 38.4   | 57.6  |       |
| 130     | 2.1   | 1.8    | 2.8   |       |
| 166     | 31.1  | 23.9   | 35.9  |       |





#59

Diethylphthalate

Concen: 41.81 ng

RT: 10.33 min Scan# 704

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tgt Ion:149 Resp: 1055618

Ion Ratio Lower Upper

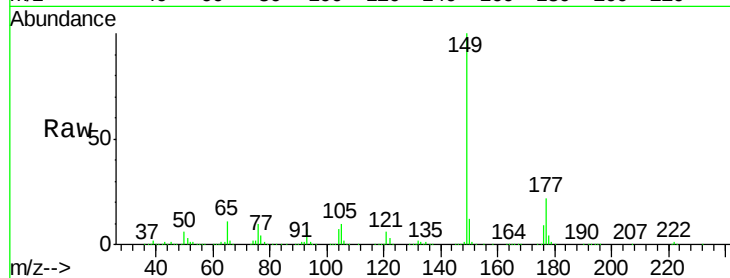
149 100

177 22.2 15.7 23.5

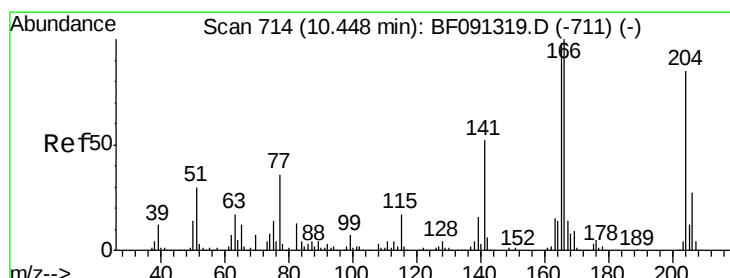
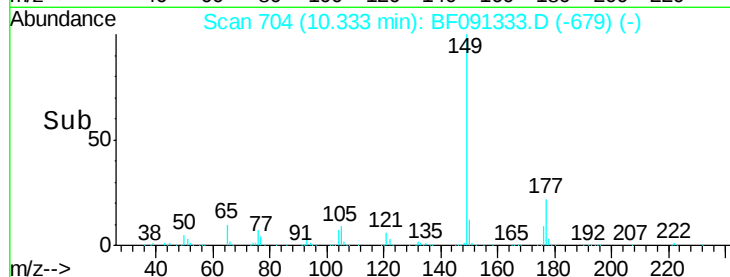
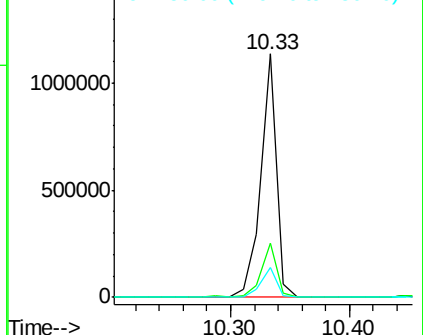
150 12.4 10.2 15.2

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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: 38.01 ng

RT: 10.45 min Scan# 714

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

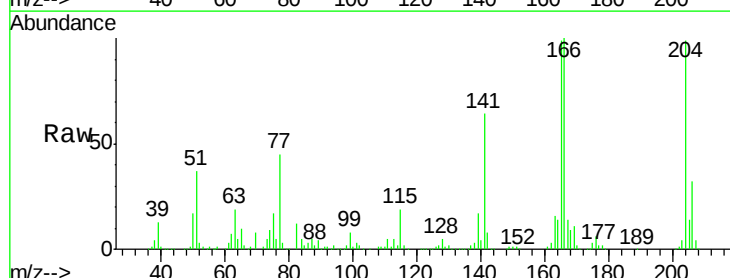
Tgt Ion:204 Resp: 470652

Ion Ratio Lower Upper

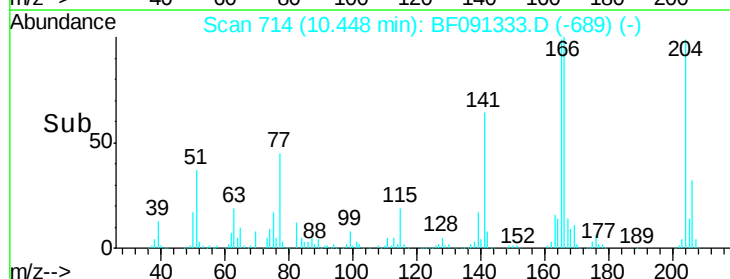
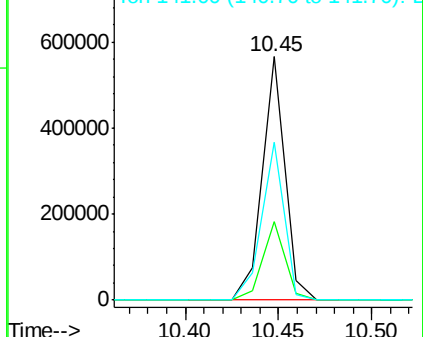
204 100

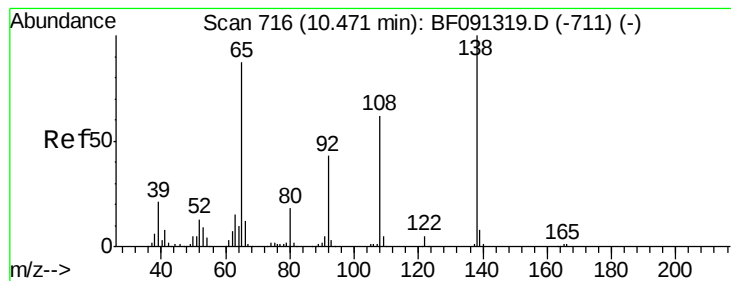
206 32.2 26.1 39.1

141 64.6 40.6 61.0#



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





#61

4-Nitroaniline

Concen: 14.90 ng

RT: 10.46 min Scan# 715

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

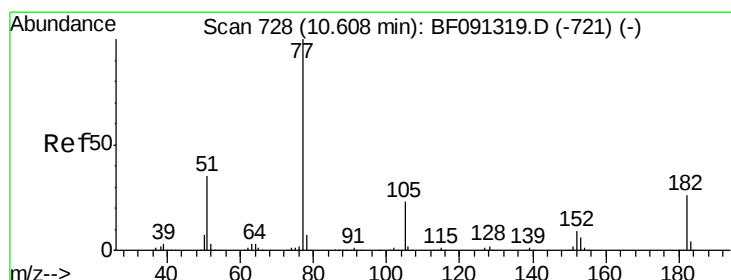
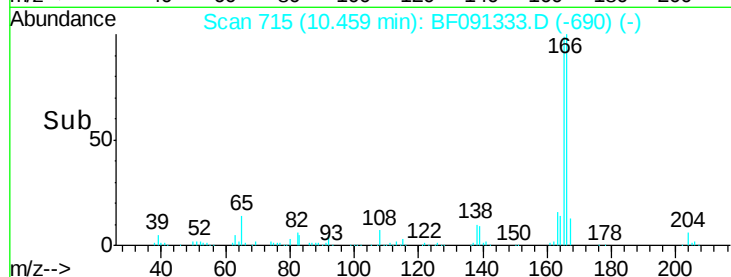
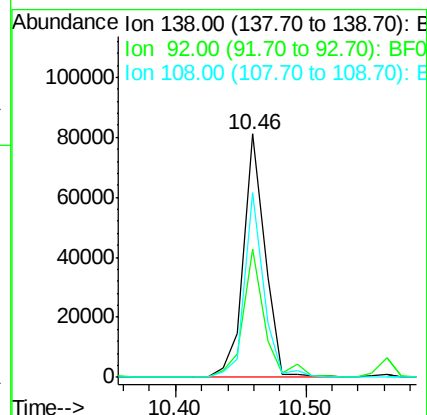
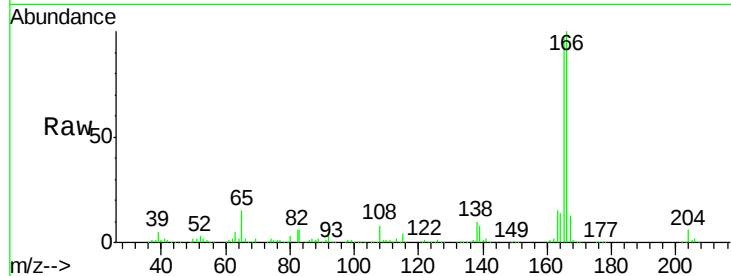
ClientSampleId :

SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 92      | 52.7  | 26.9  | 66.9  |
| 108     | 76.1  | 49.1  | 89.1  |

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#62

Azobenzene

Concen: 42.63 ng

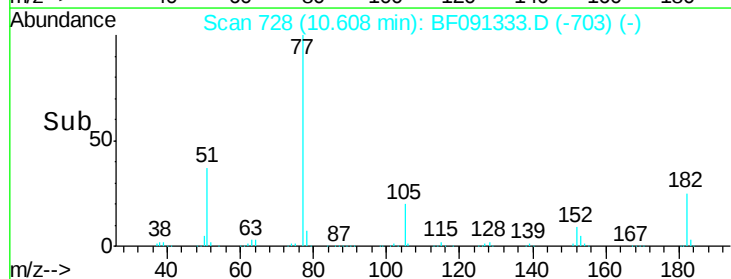
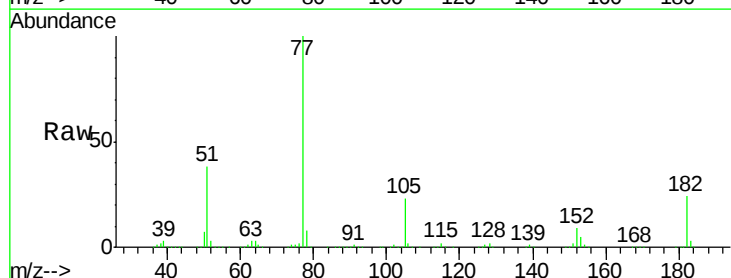
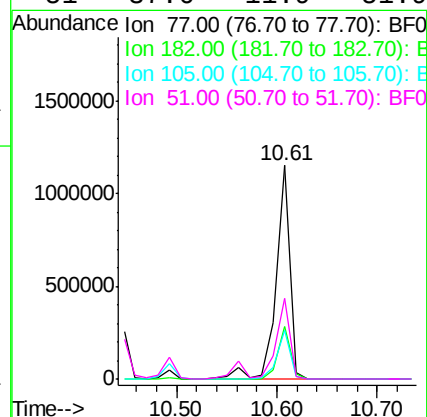
RT: 10.61 min Scan# 728

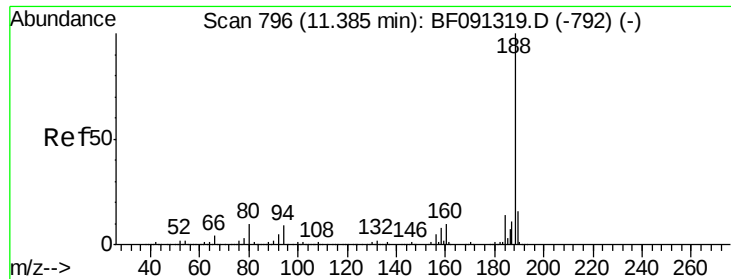
Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 24.4  | 12.5  | 52.5  |
| 105     | 22.9  | 3.7   | 43.7  |
| 51      | 37.6  | 11.9  | 51.9  |





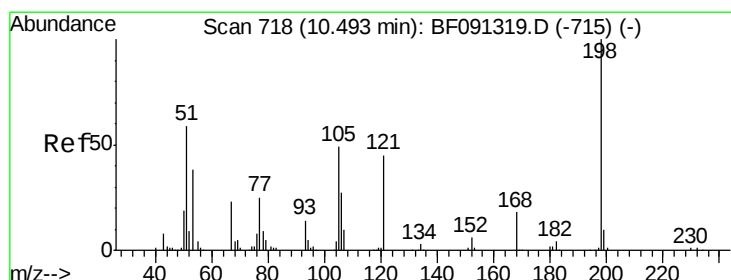
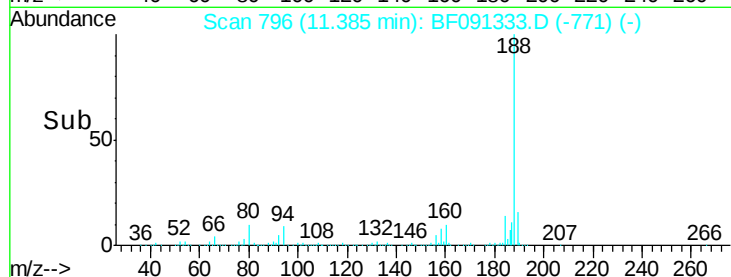
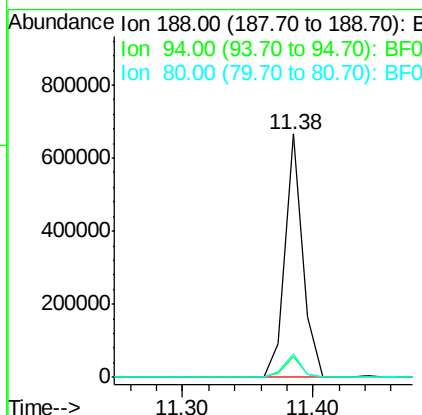
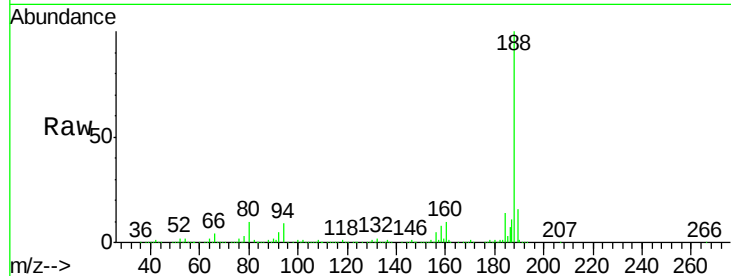
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.38 min Scan# 796  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 8.8   | 9.2        | 13.8#      |
| 80      | 9.6   | 10.5       | 15.7#      |

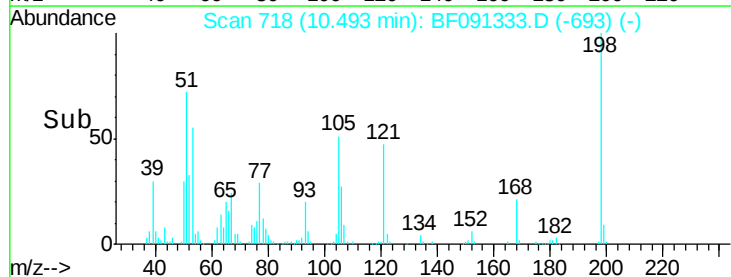
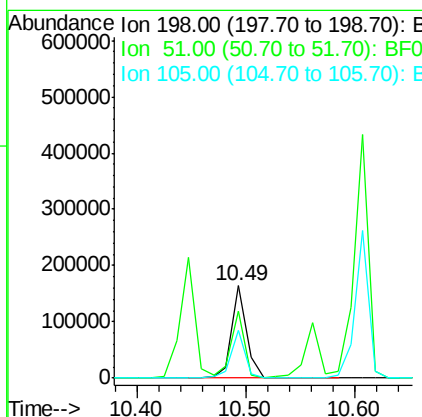
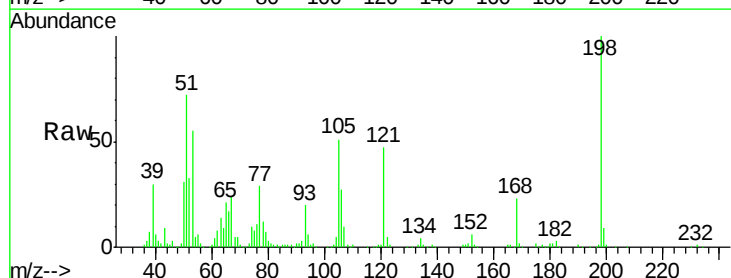
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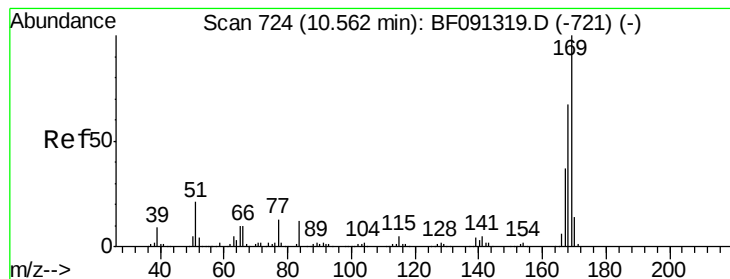
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#64  
4,6-Dinitro-2-methylphenol  
Concen: 43.97 ng  
RT: 10.49 min Scan# 718  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 198     | 100   |            |            |
| 51      | 71.8  | 77.1       | 117.1#     |
| 105     | 51.1  | 44.8       | 84.8       |





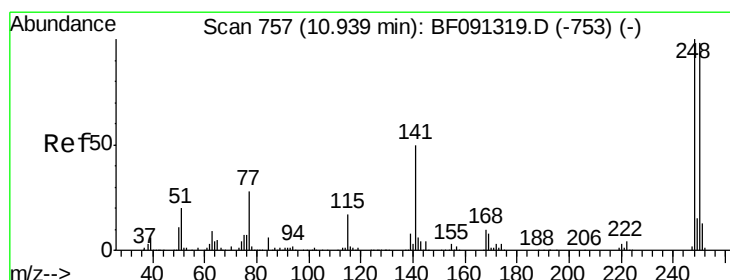
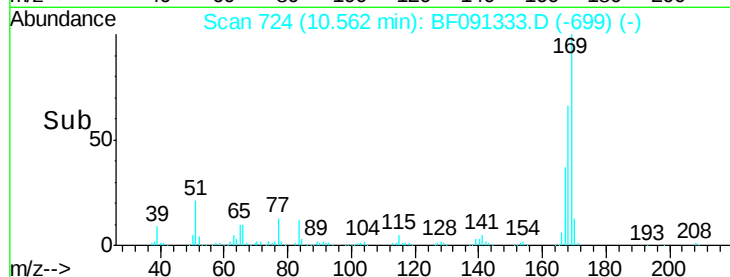
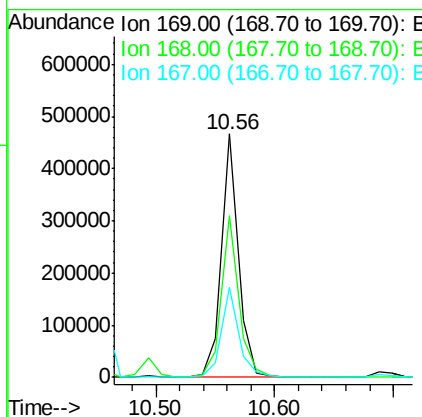
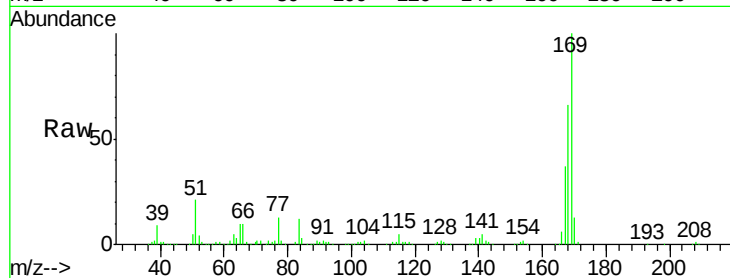
#65  
n-Nitrosodiphenylamine  
Concen: 23.86 ng  
RT: 10.56 min Scan# 724  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 169     | 100   | 461641 |       |       |
| 168     | 66.3  | 53.8   | 80.8  |       |
| 167     | 37.0  | 29.8   | 44.8  |       |

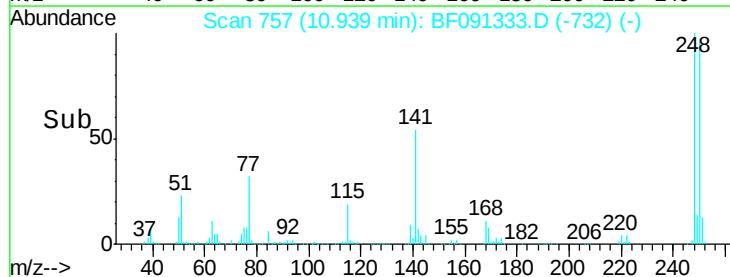
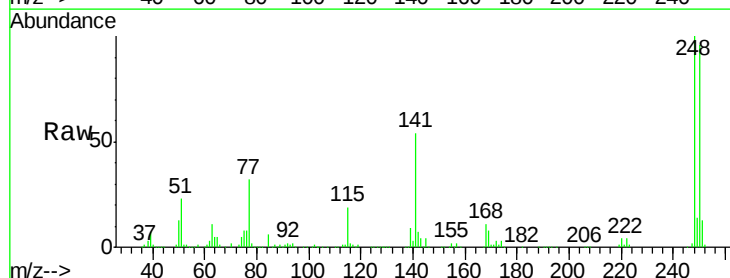
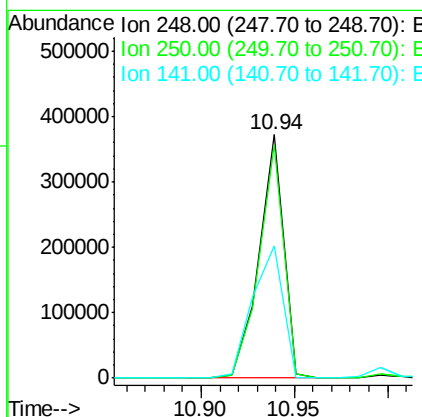
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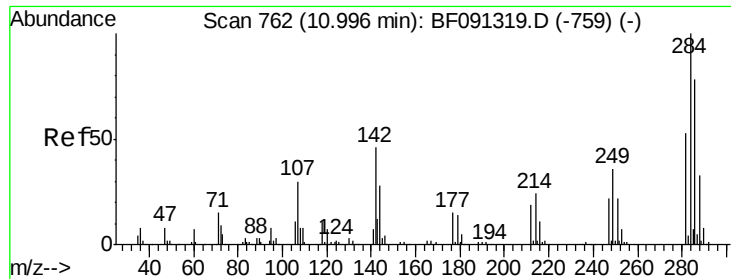
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#66  
4-Bromophenyl-phenylether  
Concen: 49.29 ng  
RT: 10.94 min Scan# 757  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Resp   | Lower  | Upper |
|---------|-------|--------|--------|-------|
| 248     | 100   | 338064 |        |       |
| 250     | 95.8  | 78.2   | 117.4  |       |
| 141     | 54.5  | 71.9   | 107.9# |       |





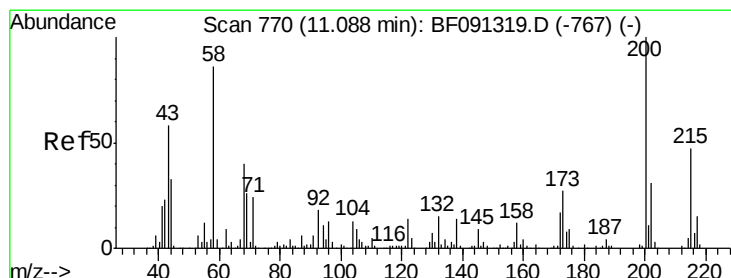
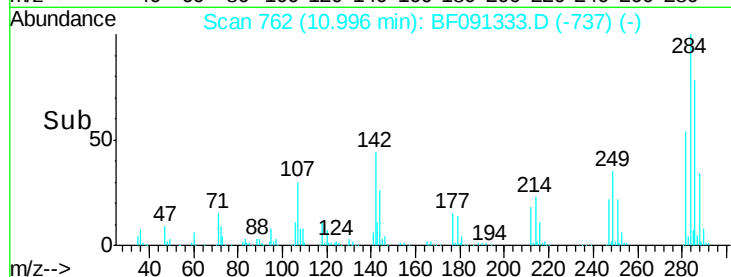
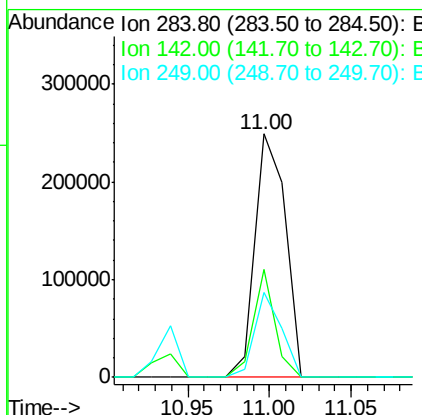
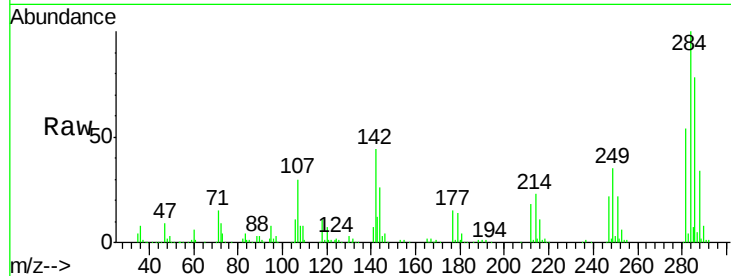
#67  
Hexachlorobenzene  
Concen: 43.54 ng  
RT: 11.00 min Scan# 762  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 284     | 100   | 322720 |       |       |
| 142     | 44.4  | 17.9   | 26.9  |       |
| 249     | 34.7  | 23.6   | 35.4  |       |

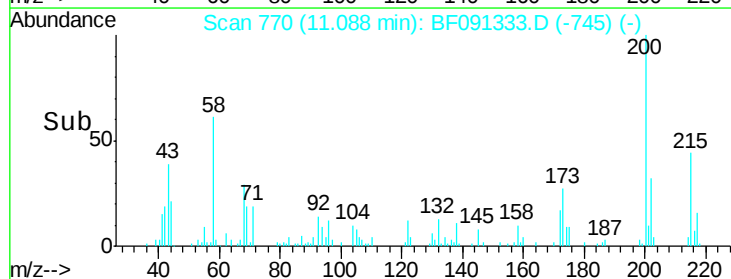
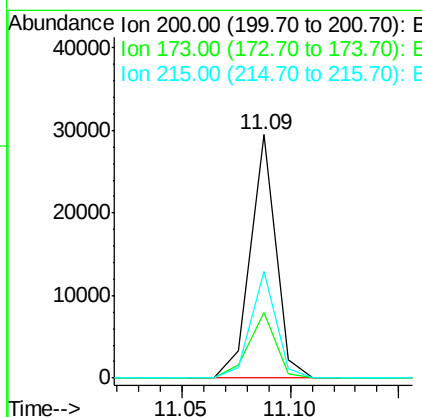
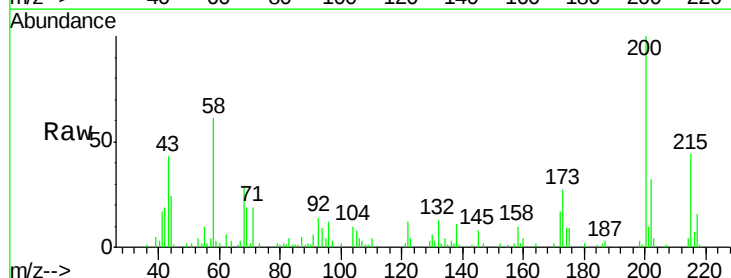
Manual Integrations  
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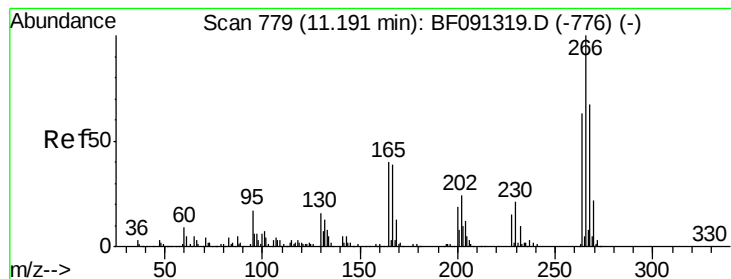
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#68  
Atrazine  
Concen: 3.83 ng  
RT: 11.09 min Scan# 770  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 200     | 100   | 24006 |       |       |
| 173     | 26.8  | 7.8   | 47.8  |       |
| 215     | 44.0  | 24.3  | 64.3  |       |





#69

Pentachlorophenol

Concen: 80.63 ng

RT: 11.19 min Scan# 779

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

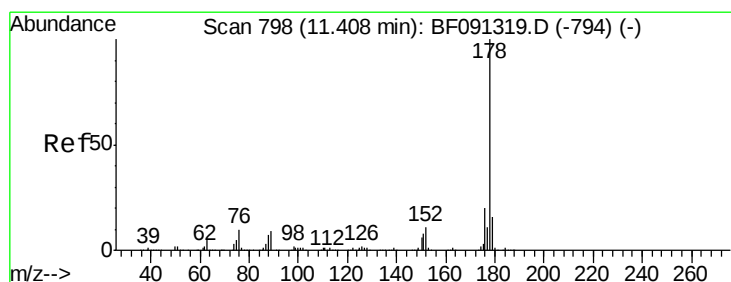
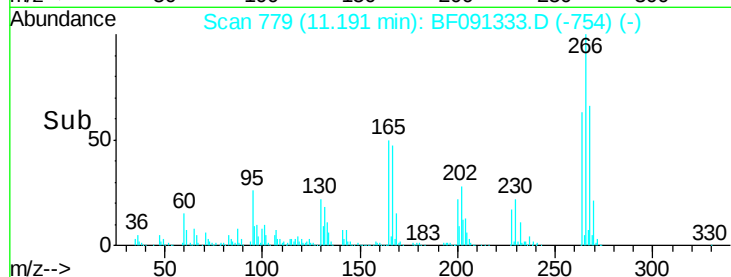
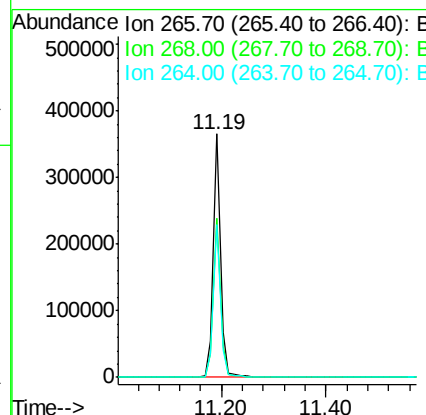
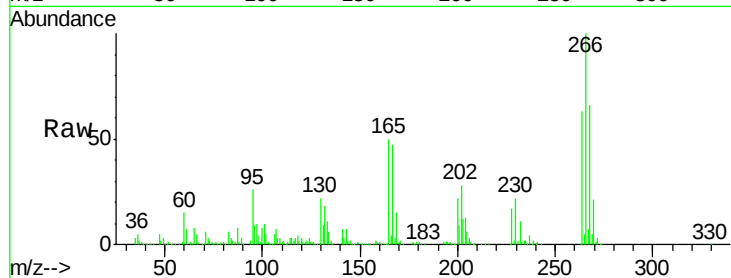
ClientSampleId :

SOIL-CUTTINGSMSD

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 266  | Resp: | 351791 |
| Ion Ratio |      | Lower | Upper  |
| 266       | 100  |       |        |
| 268       | 65.5 | 50.3  | 75.5   |
| 264       | 62.9 | 48.2  | 72.2   |

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#70

Phenanthrene

Concen: 42.00 ng

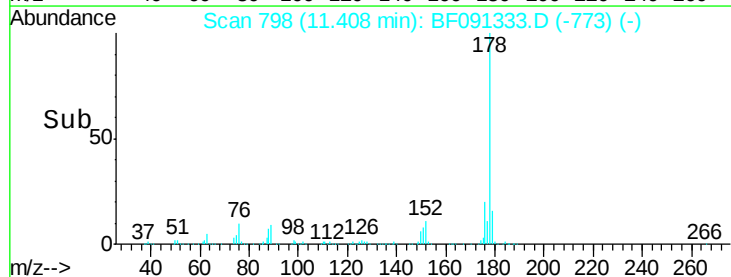
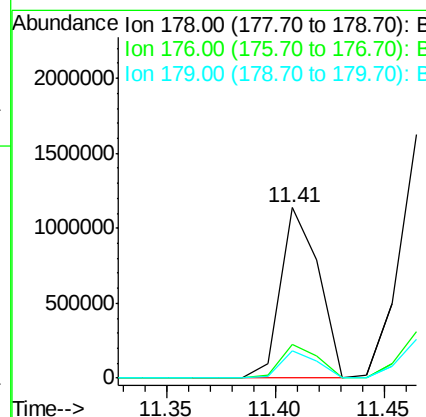
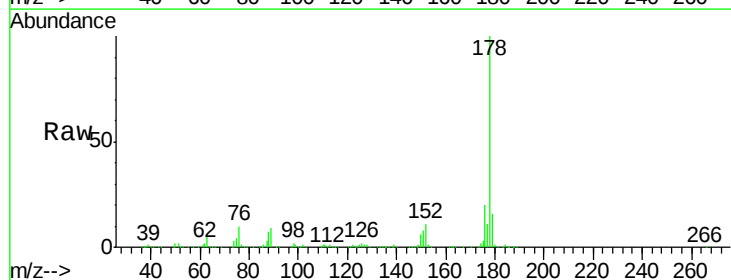
RT: 11.41 min Scan# 798

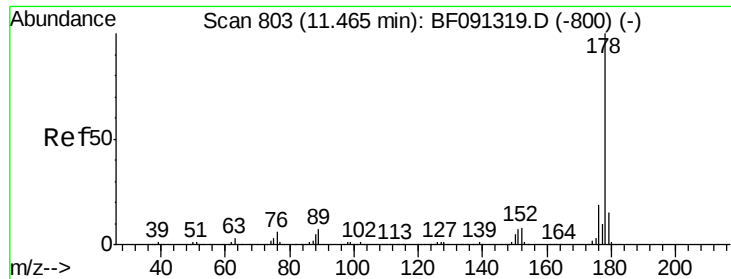
Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

|           |      |       |         |
|-----------|------|-------|---------|
| Tgt Ion:  | 178  | Resp: | 1392681 |
| Ion Ratio |      | Lower | Upper   |
| 178       | 100  |       |         |
| 176       | 19.7 | 15.9  | 23.9    |
| 179       | 15.9 | 12.6  | 18.8    |





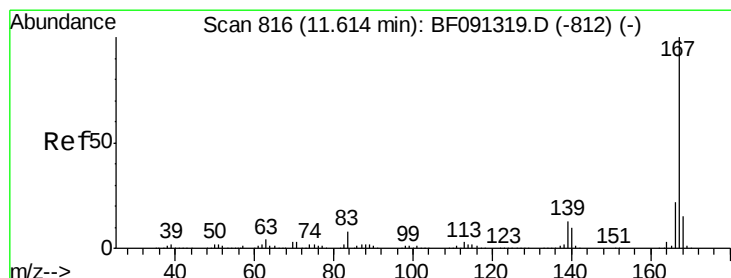
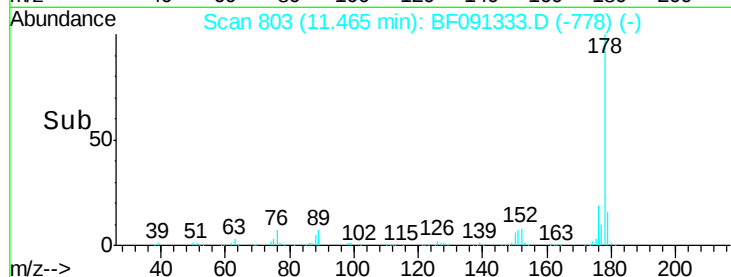
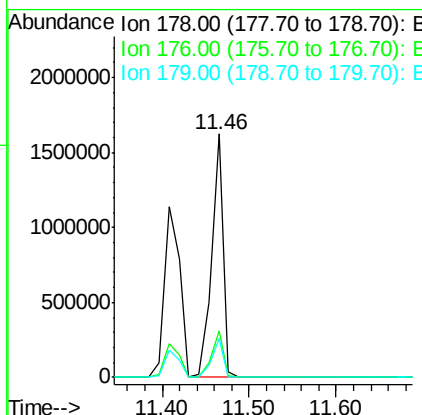
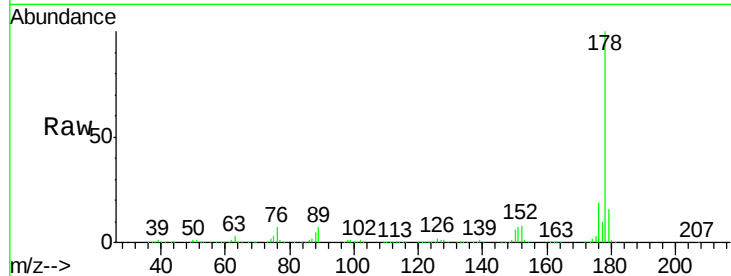
#71  
 Anthracene  
 Concen: 45.58 ng  
 RT: 11.46 min Scan# 803  
 Delta R.T. -0.02 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGSMSD

Tgt Ion:178 Resp: 1500008  
 Ion Ratio Lower Upper  
 178 100  
 176 19.0 15.8 23.6  
 179 15.8 12.7 19.1

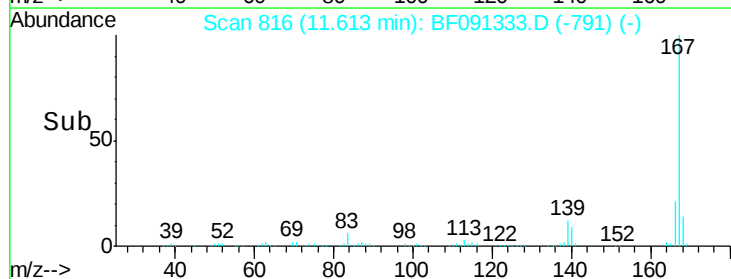
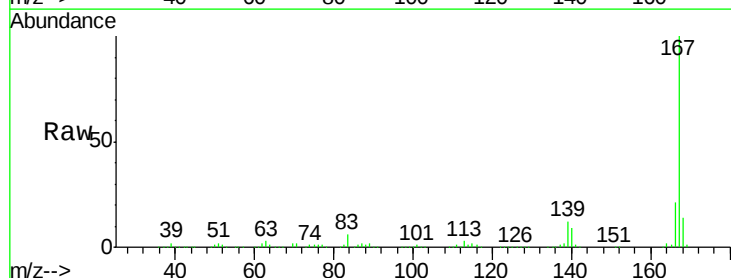
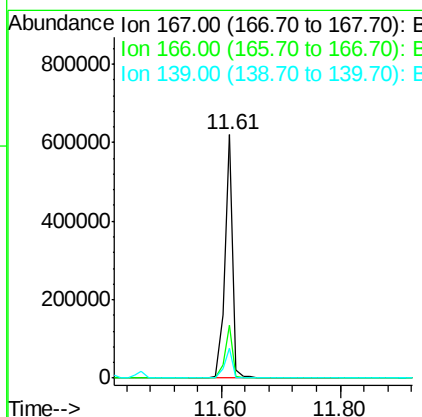
Manual Integrations  
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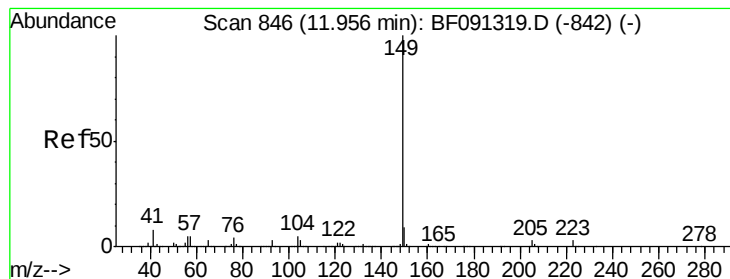
sohil  
 11/30/2016 10:33:53 AM



#72  
 Carbazole  
 Concen: 19.06 ng  
 RT: 11.61 min Scan# 816  
 Delta R.T. -0.02 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Tgt Ion:167 Resp: 569036  
 Ion Ratio Lower Upper  
 167 100  
 166 21.5 18.1 27.1  
 139 12.2 11.5 17.3





#73

Di-n-butylphthalate

Concen: 45.32 ng

RT: 11.96 min Scan# 846

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tgt Ion:149 Resp: 1533917

Ion Ratio Lower Upper

149 100

150 9.6 7.5 11.3

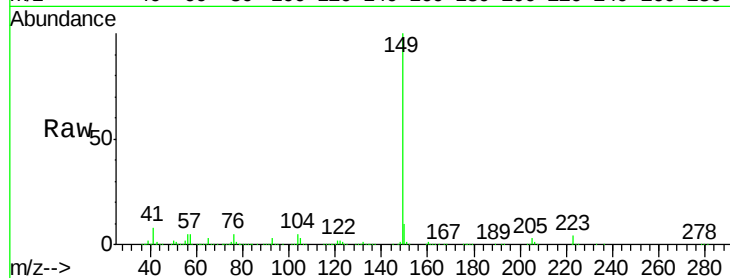
104 5.0 4.0 6.0

Manual Integrations

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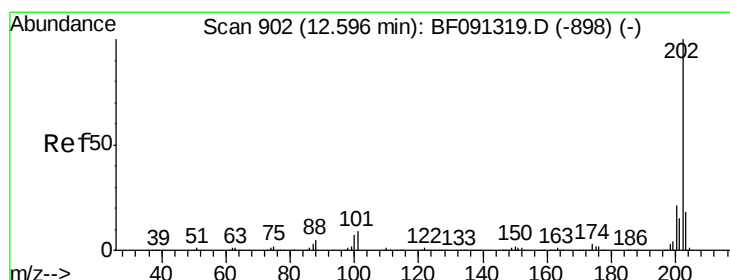
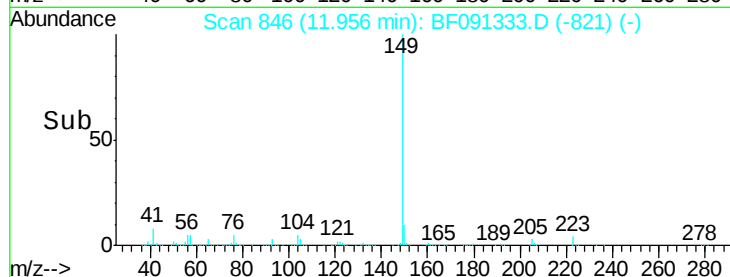
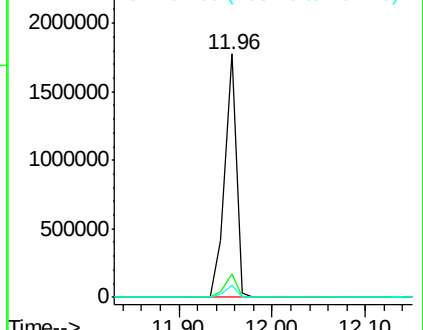
11/30/2016 10:33:53 AM



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: 44.39 ng

RT: 12.60 min Scan# 902

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

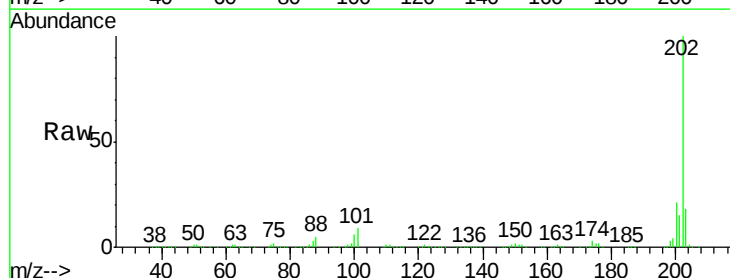
Tgt Ion:202 Resp: 1394228

Ion Ratio Lower Upper

202 100

101 8.8 0.0 29.5

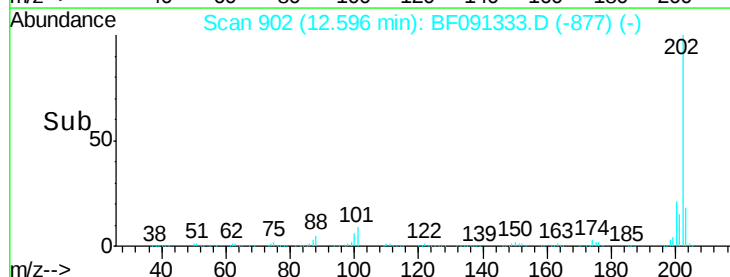
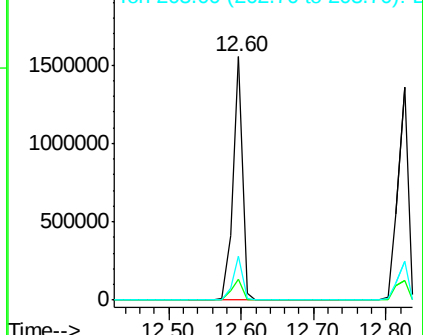
203 18.0 0.0 37.8

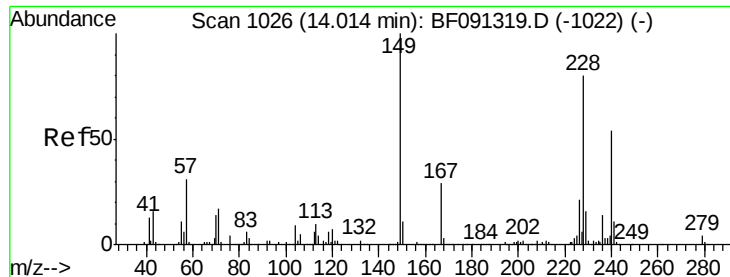


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.01 min Scan# 1026

Delta R.T. -0.03 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

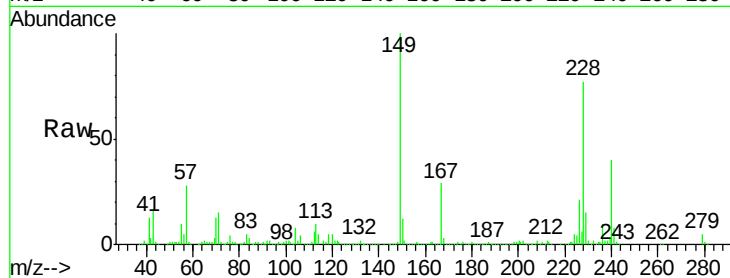
ClientSampleId :

SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.8  | 12.1  | 18.1  |
| 236     | 25.7  | 21.0  | 31.6  |

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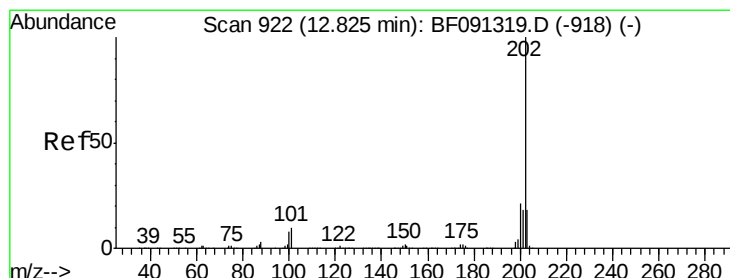
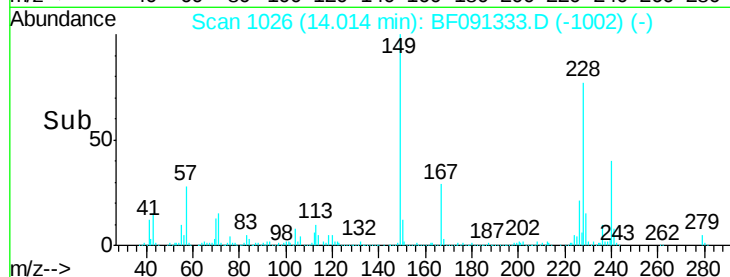
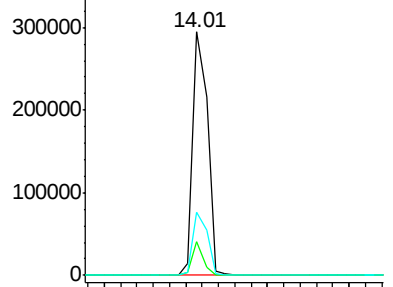
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 48.49 ng

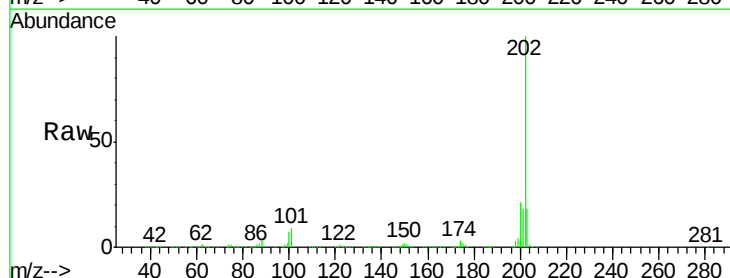
RT: 12.82 min Scan# 922

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

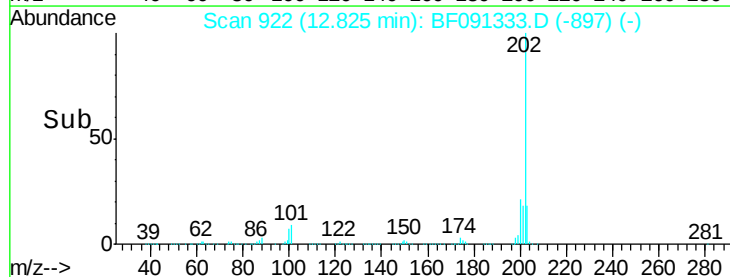
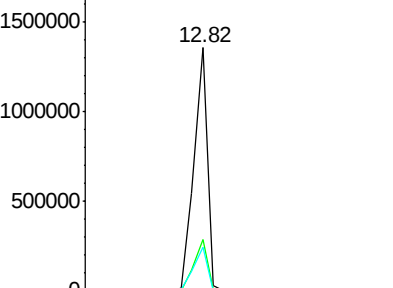
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.4  | 17.6  | 26.4  |
| 203     | 18.1  | 14.0  | 21.0  |

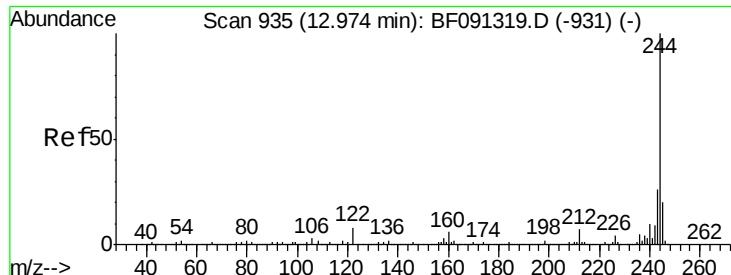


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





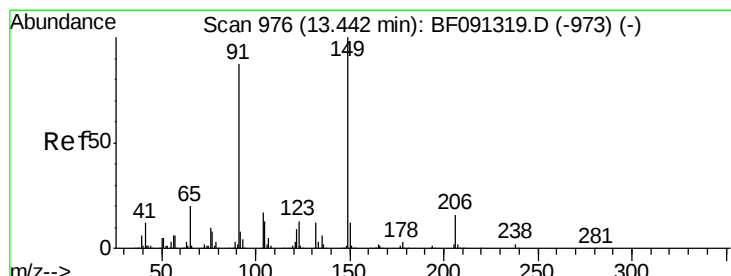
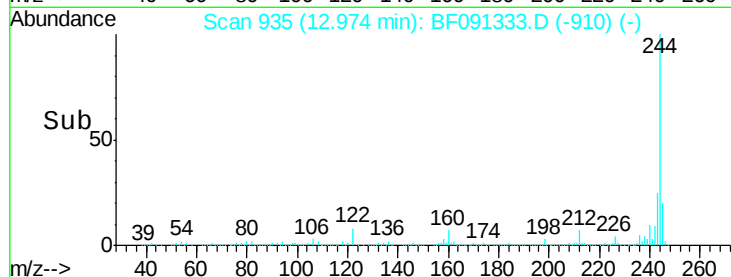
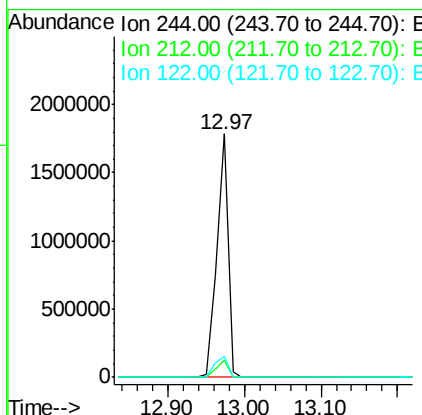
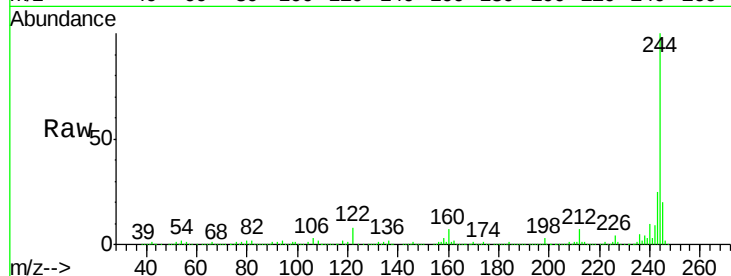
#78  
 Terphenyl-d14  
 Concen: 105.81 ng  
 RT: 12.97 min Scan# 935  
 Delta R.T. -0.02 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGSMSD

Tgt Ion: 244 Resp: 1788855  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 6.5 9.7  
 122 8.5 9.5 14.3#

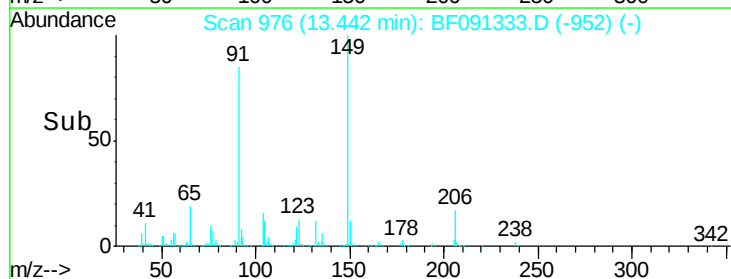
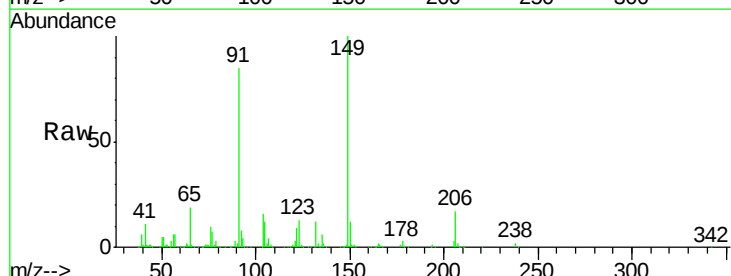
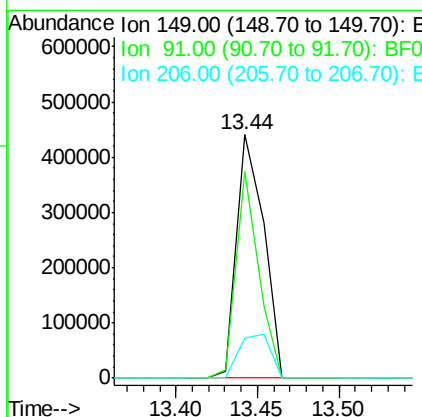
Manual Integrations  
 APPROVED

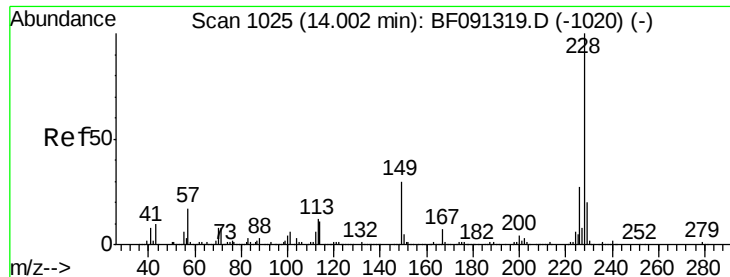
sohil  
 11/30/2016 10:33:53 AM



#79  
 Butylbenzylphthalate  
 Concen: 48.33 ng  
 RT: 13.44 min Scan# 976  
 Delta R.T. -0.03 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Tgt Ion: 149 Resp: 504667  
 Ion Ratio Lower Upper  
 149 100  
 91 84.7 57.4 86.2  
 206 16.5 15.4 23.2





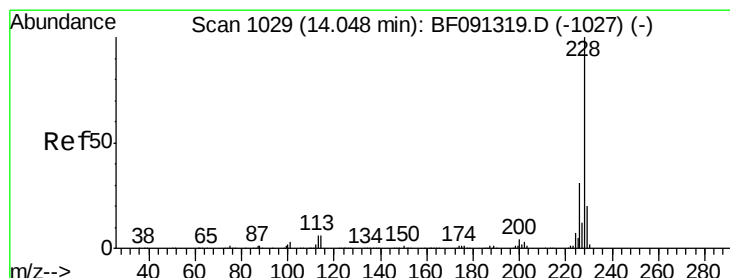
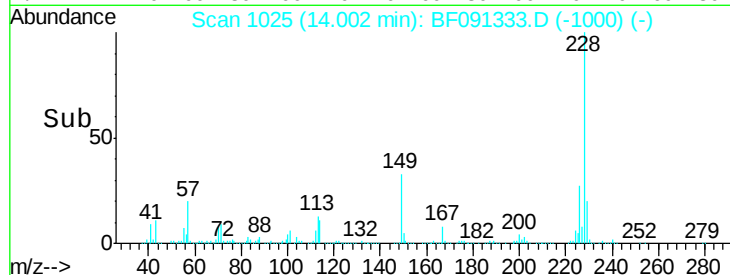
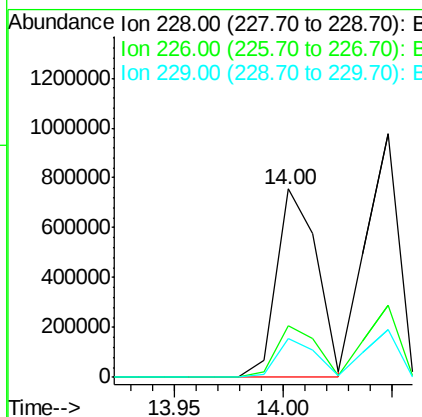
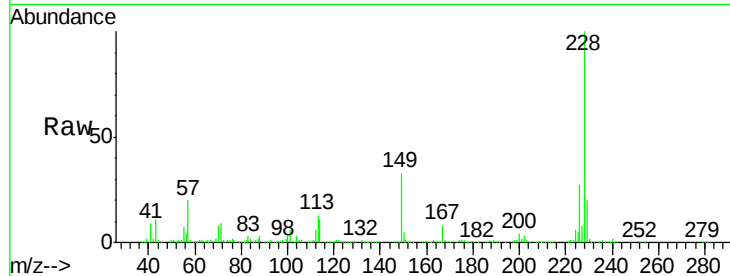
#80  
Benzo(a)anthracene  
Concen: 45.42 ng  
RT: 14.00 min Scan# 1025  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.3  | 22.5  | 33.7  |
| 229     | 20.4  | 16.4  | 24.6  |

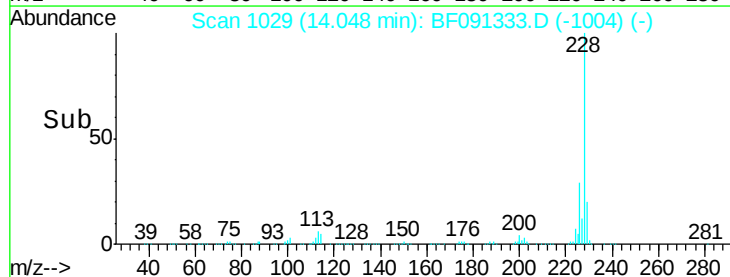
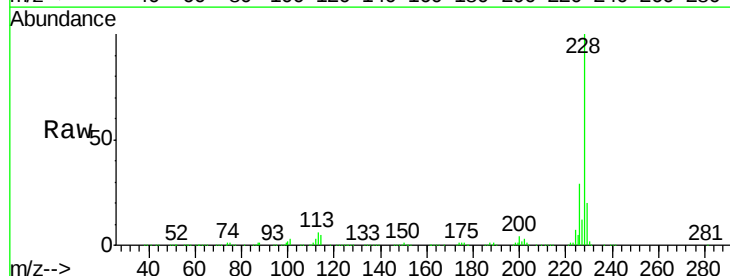
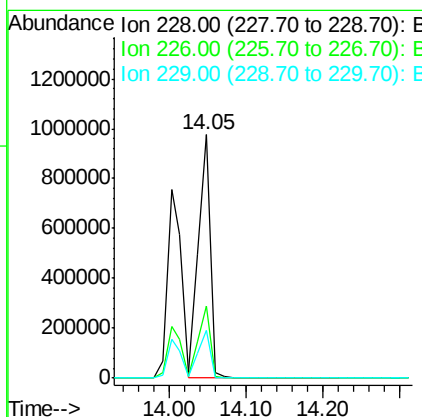
Manual Integrations  
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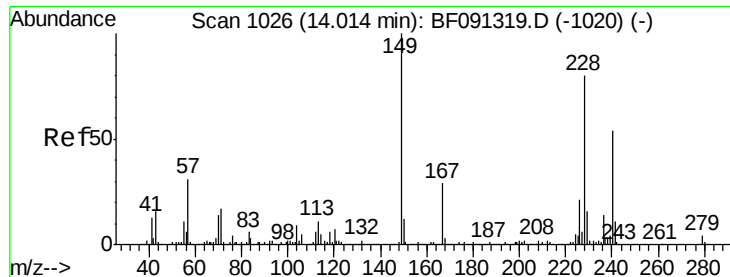
sohil  
11/30/2016 10:33:53 AM



#82  
Chrysene  
Concen: 48.69 ng  
RT: 14.05 min Scan# 1029  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.5  | 25.0  | 37.4  |
| 229     | 19.5  | 16.0  | 24.0  |





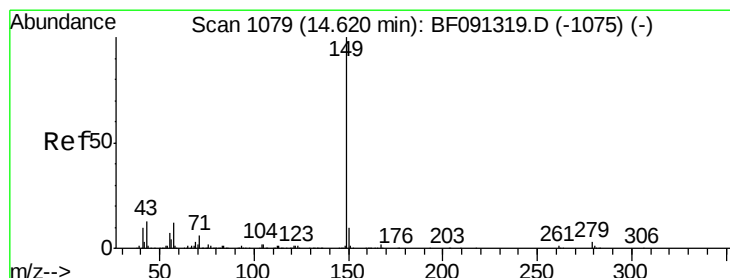
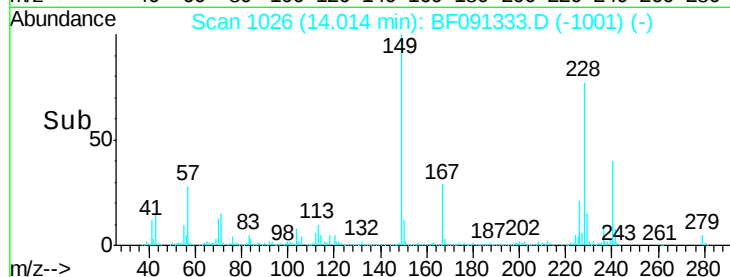
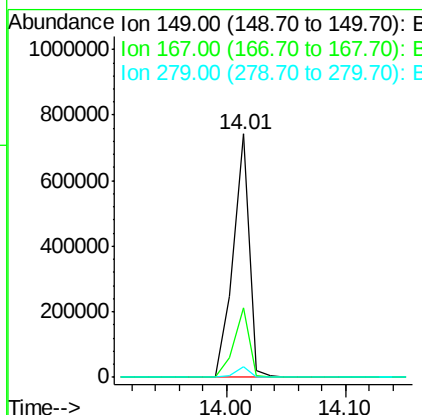
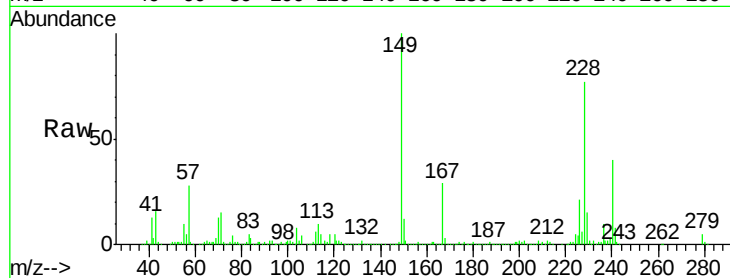
#83  
Bis(2-ethylhexyl)phthalate  
Concen: 53.00 ng  
RT: 14.01 min Scan# 1026  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.8  | 19.6  | 29.4  |
| 279     | 4.5   | 1.9   | 2.9#  |

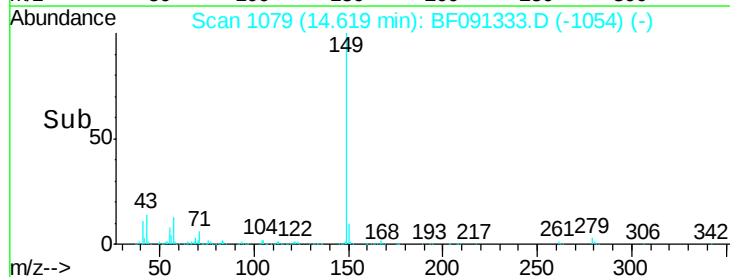
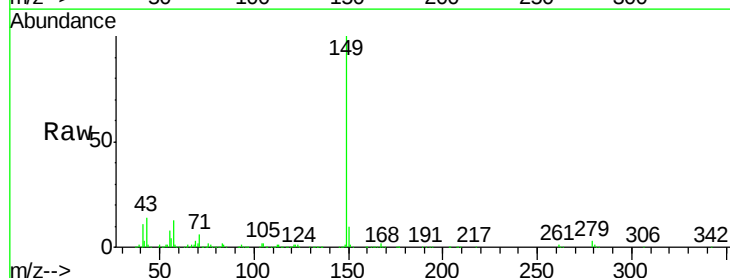
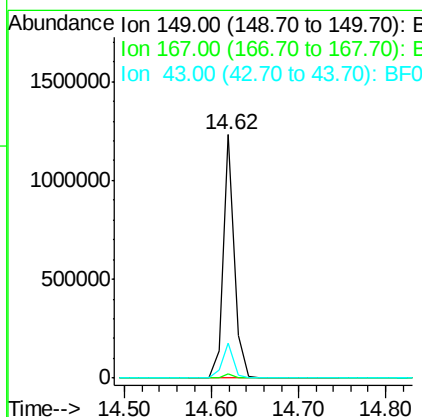
Manual Integrations  
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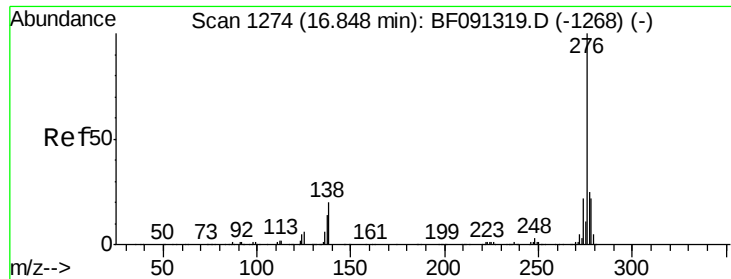
sohil  
11/30/2016 10:33:53 AM



#84  
Di-n-octyl phthalate  
Concen: 55.01 ng  
RT: 14.62 min Scan# 1079  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 1.6   | 1.3   | 1.9   |
| 43      | 14.4  | 11.9  | 17.9  |





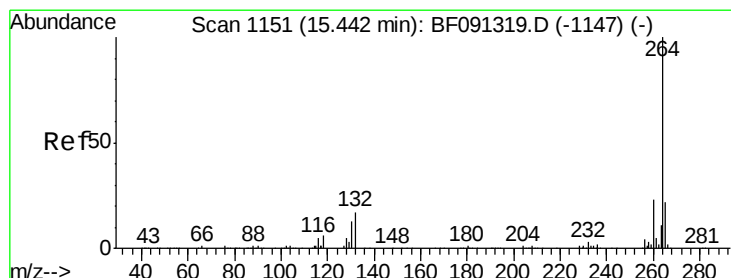
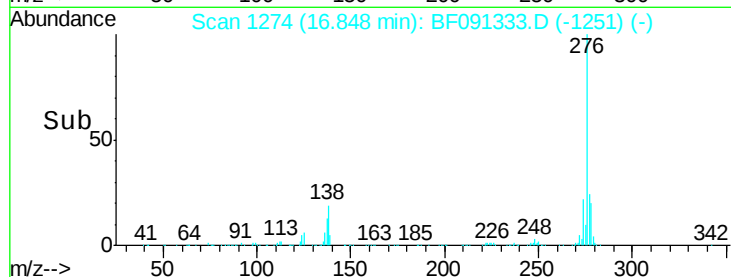
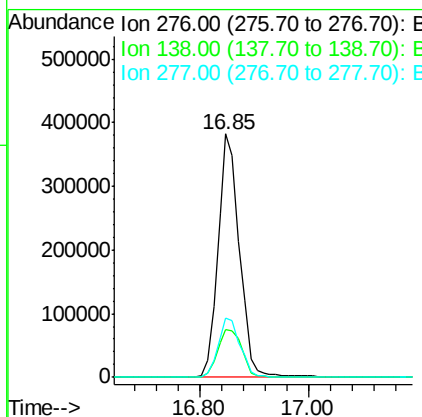
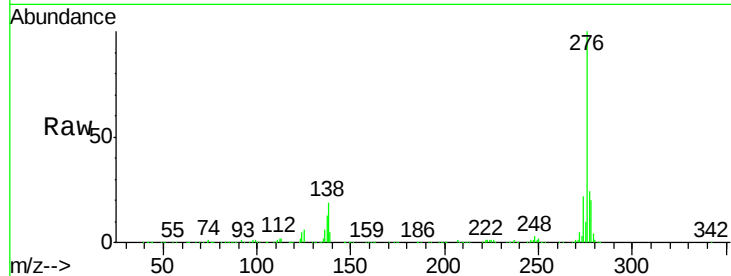
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 54.44 ng  
 RT: 16.85 min Scan# 1274  
 Delta R.T. -0.04 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.6  | 21.0  | 31.4  |
| 277     | 25.2  | 20.2  | 30.2  |

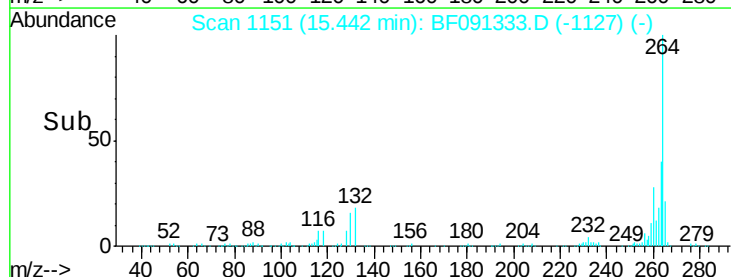
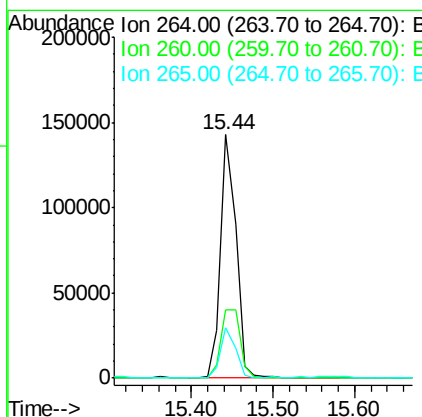
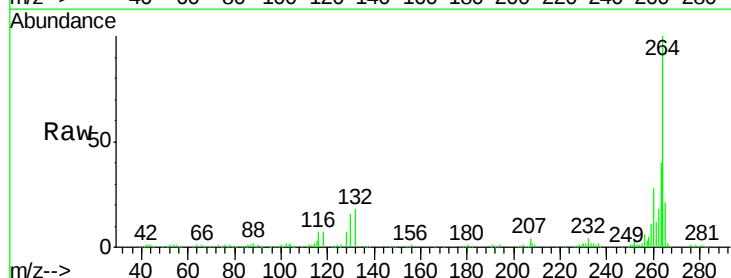
Manual Integrations  
 APPROVED

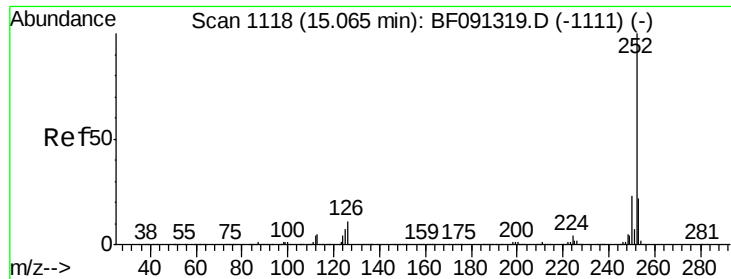
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 11/30/2016 10:33:53 AM



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.44 min Scan# 1151  
 Delta R.T. -0.03 min  
 Lab File: BF091333.D  
 Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 28.1  | 18.8  | 28.2  |
| 265     | 20.9  | 17.0  | 25.6  |





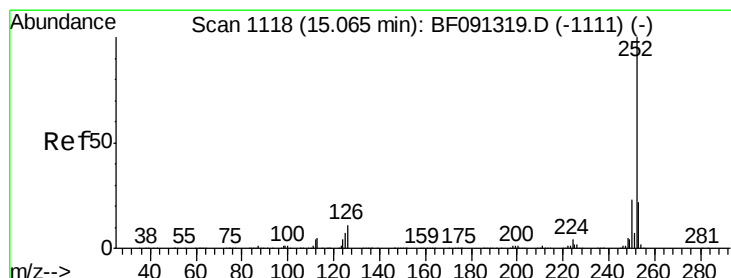
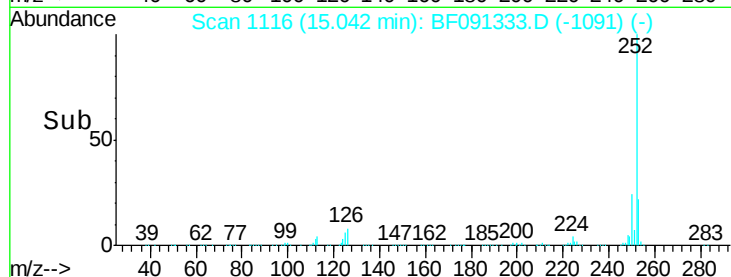
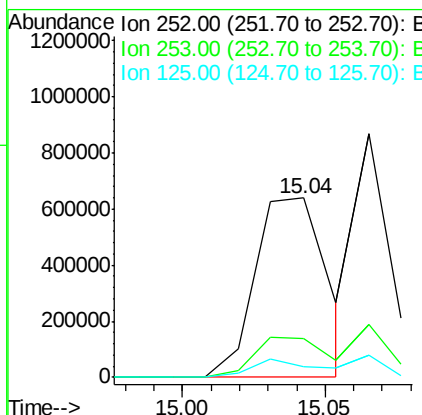
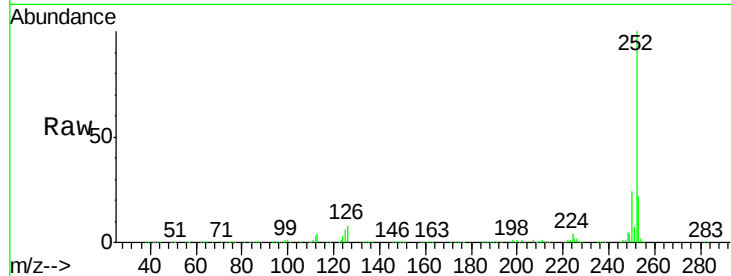
#87  
Benzo(b)fluoranthene  
Concen: 95.88 ng m  
RT: 15.04 min Scan# 1116  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 18.2  | 27.2  |
| 125     | 5.8   | 8.6   | 13.0# |

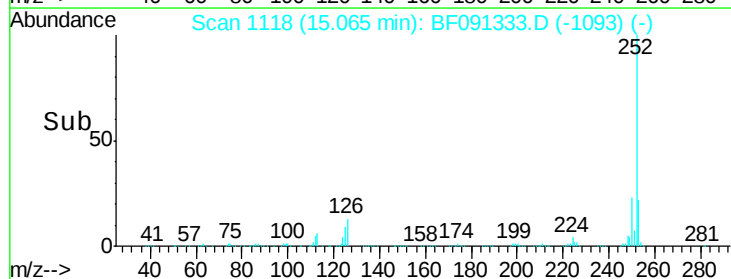
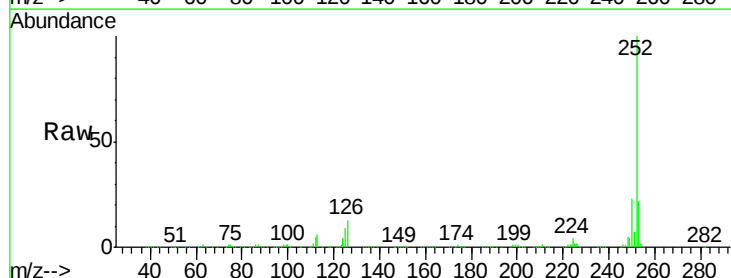
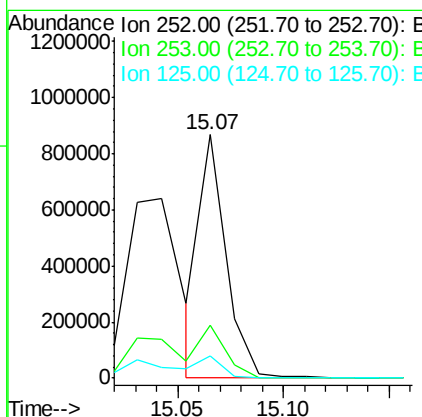
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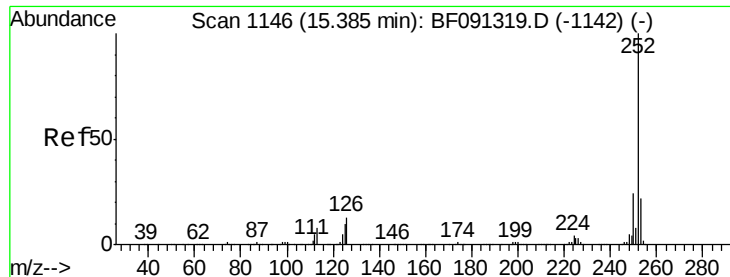
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#88  
Benzo(k)fluoranthene  
Concen: 77.80 ng m  
RT: 15.07 min Scan# 1118  
Delta R.T. -0.02 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 17.8  | 26.8  |
| 125     | 8.9   | 9.6   | 14.4# |





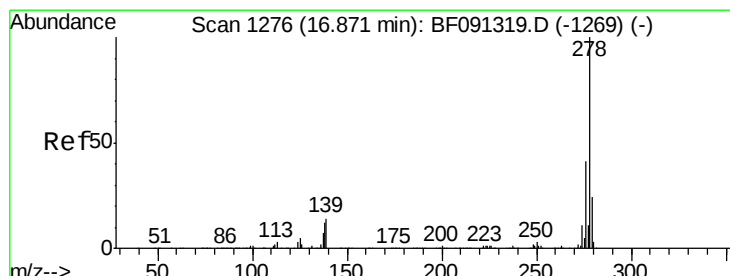
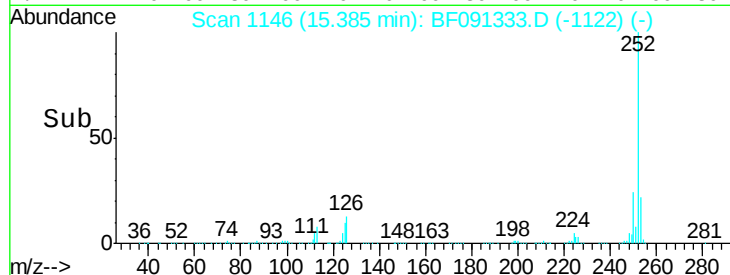
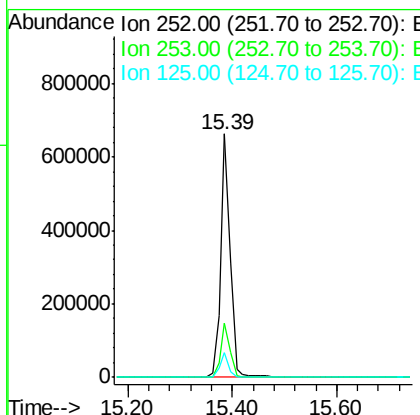
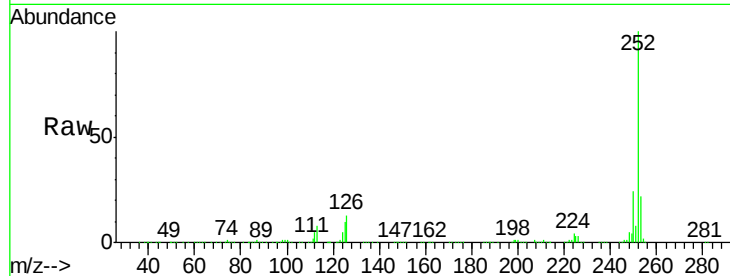
#89  
Benzo(a)pyrene  
Concen: 78.44 ng  
RT: 15.39 min Scan# 1146  
Delta R.T. -0.03 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-CUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.2  | 27.4  |
| 125     | 10.2  | 10.4  | 15.6  |

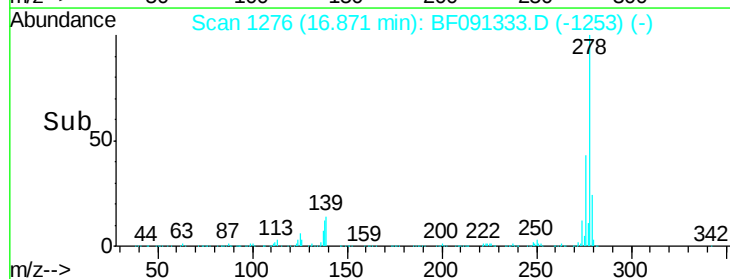
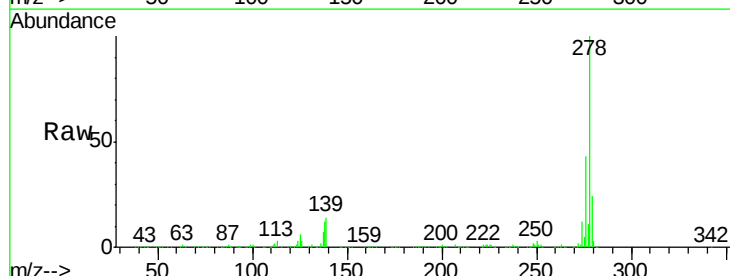
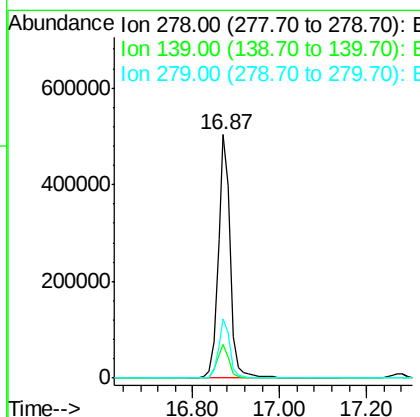
Manual Integrations  
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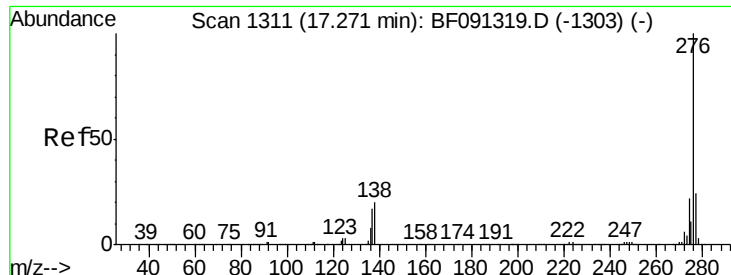
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#90  
Dibenzo(a,h)anthracene  
Concen: 102.26 ng  
RT: 16.87 min Scan# 1276  
Delta R.T. -0.04 min  
Lab File: BF091333.D  
Acq: 29 Nov 2016 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 14.0  | 15.1  | 22.7  |
| 279     | 24.4  | 19.0  | 28.6  |





#91

Benzo(g,h,i)perylene

Concen: 85.99 ng

RT: 17.28 min Scan# 1312

Delta R.T. -0.03 min

Lab File: BF091333.D

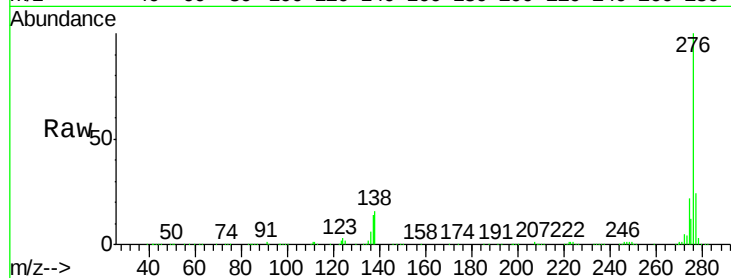
Acq: 29 Nov 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SOIL-CUTTINGSMSD



| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 276 | 100  |       | 861193 |       |       |
| 277 | 23.7 | 19.0  | 28.4   |       |       |
| 138 | 16.5 | 15.4  | 23.0   |       |       |

Manual Integrations  
APPROVED

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