

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF103015\  
 Data File : BF082586.D  
 Acq On : 30 Oct 2015 22:01  
 Operator : UM/IZ  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015

Manual Integrations  
 APPROVED

Mmdadoda  
 11/2/2015 4:32:04 PM

Quant Time: Oct 30 23:50:38 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF103015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Oct 31 00:17:39 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.91  | 152  | 195844   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.20  | 136  | 739666   | 20.00 | ng    | 0.01     |
| 38) Acenaphthene-d10      | 9.95  | 164  | 362724   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.44 | 188  | 687263   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.09 | 240  | 454213   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12          | 15.53 | 264  | 388192   | 20.00 | ng    | -0.01    |

|                             |       |     |         |        |    |      |
|-----------------------------|-------|-----|---------|--------|----|------|
| System Monitoring Compounds |       |     |         |        |    |      |
| 5) 2-Fluorophenol           | 5.50  | 112 | 1687599 | 129.79 | ng | 0.00 |
| 7) Phenol-d6                | 6.54  | 99  | 2312746 | 133.88 | ng | 0.01 |
| 23) Nitrobenzene-d5         | 7.48  | 82  | 2527984 | 139.56 | ng | 0.01 |
| 41) 2,4,6-Tribromophenol    | 10.75 | 330 | 683086  | 172.08 | ng | 0.01 |
| 44) 2-Fluorobiphenyl        | 9.29  | 172 | 3926884 | 153.71 | ng | 0.01 |
| 78) Terphenyl-d14           | 13.04 | 244 | 3716224 | 179.05 | ng | 0.01 |

|                                |      |     |          |       |         |
|--------------------------------|------|-----|----------|-------|---------|
| Target Compounds               |      |     |          |       | Qvalue  |
| 2) 1,4-Dioxane                 | 2.53 | 88  | 423473   | 70.45 | ng 91   |
| 3) Pyridine                    | 3.28 | 79  | 1292293  | 73.32 | ng 96   |
| 4) n-Nitrosodimethylamine      | 3.23 | 42  | 721792   | 72.75 | ng 99   |
| 6) Aniline                     | 6.58 | 93  | 1659530  | 69.00 | ng 97   |
| 8) 2-Chlorophenol              | 6.69 | 128 | 894840   | 63.60 | ng # 77 |
| 9) Benzaldehyde                | 6.45 | 77  | 761846   | 64.60 | ng 92   |
| 10) Phenol                     | 6.56 | 94  | 1238610  | 63.28 | ng 79   |
| 11) bis(2-Chloroethyl)ether    | 6.65 | 93  | 923024   | 63.92 | ng 96   |
| 12) 1,3-Dichlorobenzene        | 6.85 | 146 | 1200899m | 74.85 | ng      |
| 13) 1,4-Dichlorobenzene        | 6.92 | 146 | 1075647  | 67.60 | ng 97   |
| 14) 1,2-Dichlorobenzene        | 7.08 | 146 | 926531m  | 62.74 | ng      |
| 15) Benzyl Alcohol             | 7.06 | 79  | 1226885  | 76.16 | ng 99   |
| 16) 2,2'-oxybis(1-Chloropropan | 7.20 | 45  | 1625729  | 70.84 | ng 95   |
| 17) 2-Methylphenol             | 7.16 | 107 | 861911   | 72.05 | ng 96   |
| 18) Hexachloroethane           | 7.42 | 117 | 422382   | 68.02 | ng 96   |
| 19) n-Nitroso-di-n-propylamine | 7.34 | 70  | 926117   | 70.72 | ng 93   |
| 20) 3+4-Methylphenols          | 7.33 | 107 | 1106740  | 71.19 | ng 94   |
| 22) Acetophenone               | 7.32 | 105 | 1554521  | 71.39 | ng # 80 |
| 24) Nitrobenzene               | 7.50 | 77  | 1368015  | 74.72 | ng 98   |
| 25) Isophorone                 | 7.74 | 82  | 2339767  | 70.21 | ng 99   |
| 26) 2-Nitrophenol              | 7.81 | 139 | 523029   | 78.20 | ng 88   |
| 27) 2,4-Dimethylphenol         | 7.86 | 122 | 1005642  | 77.03 | ng 97   |
| 28) bis(2-Chloroethoxy)methane | 7.95 | 93  | 1122432  | 61.58 | ng 98   |
| 29) 2,4-Dichlorophenol         | 8.05 | 162 | 777713   | 65.35 | ng 86   |
| 30) 1,2,4-Trichlorobenzene     | 8.14 | 180 | 963649   | 72.97 | ng 95   |
| 31) Naphthalene                | 8.22 | 128 | 2855880  | 71.35 | ng 97   |
| 32) Benzoic acid               | 8.01 | 122 | 726291   | 76.68 | ng 97   |
| 33) 4-Chloroaniline            | 8.27 | 127 | 1278285  | 74.81 | ng 92   |
| 34) Hexachlorobutadiene        | 8.35 | 225 | 637548   | 75.90 | ng 98   |
| 35) Caprolactam                | 8.67 | 113 | 250967   | 68.74 | ng 100  |
| 36) 4-Chloro-3-methylphenol    | 8.75 | 107 | 924017   | 65.94 | ng 97   |
| 37) 2-Methylnaphthalene        | 8.91 | 142 | 1618248  | 62.39 | ng 98   |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.08 | 216 | 839645   | 69.37 | ng # 96 |
| 40) Hexachlorocyclopentadiene  | 9.07 | 237 | 585730   | 76.98 | ng 99   |

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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.18  | 196  | 654336   | 74.87 | ng    | 98       |
| 43) 2,4,5-Trichlorophenol      | 9.23  | 196  | 668551   | 76.77 | ng    | 92       |
| 45) 1,1'-Biphenyl              | 9.38  | 154  | 1925015  | 62.83 | ng    | 97       |
| 46) 2-Chloronaphthalene        | 9.40  | 162  | 1615205  | 67.51 | ng    | 93       |
| 47) 2-Nitroaniline             | 9.49  | 65   | 707807   | 76.11 | ng    | 94       |
| 48) Acenaphthylene             | 9.82  | 152  | 2892649  | 75.59 | ng    | 99       |
| 49) Dimethylphthalate          | 9.69  | 163  | 1844153  | 62.25 | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.74  | 165  | 524300   | 85.39 | ng    | # 81     |
| 51) Acenaphthene               | 10.00 | 154  | 1927868  | 79.36 | ng    | 98       |
| 52) 3-Nitroaniline             | 9.90  | 138  | 511543   | 74.88 | ng    | 99       |
| 53) 2,4-Dinitrophenol          | 10.01 | 184  | 247332   | 75.98 | ng    | # 36     |
| 54) Dibenzofuran               | 10.17 | 168  | 2569235  | 77.94 | ng    | 95       |
| 55) 4-Nitrophenol              | 10.06 | 139  | 440357   | 85.68 | ng    | # 82     |
| 56) 2,4-Dinitrotoluene         | 10.14 | 165  | 660780   | 79.58 | ng    | 97       |
| 57) Fluorene                   | 10.51 | 166  | 2084258  | 78.39 | ng    | 100      |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.28 | 232  | 582877   | 79.20 | ng    | 92       |
| 59) Diethylphthalate           | 10.38 | 149  | 2059197  | 68.28 | ng    | 98       |
| 60) 4-Chlorophenyl-phenylether | 10.50 | 204  | 927672   | 71.78 | ng    | # 86     |
| 61) 4-Nitroaniline             | 10.53 | 138  | 513468   | 78.77 | ng    | 97       |
| 62) Azobenzene                 | 10.66 | 77   | 2448090  | 71.98 | ng    | 89       |
| 64) 4,6-Dinitro-2-methylphenol | 10.56 | 198  | 373688   | 90.15 | ng    | 78       |
| 65) n-Nitrosodiphenylamine     | 10.62 | 169  | 1791228  | 75.82 | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.99 | 248  | 615335   | 79.01 | ng    | # 82     |
| 67) Hexachlorobenzene          | 11.06 | 284  | 689986   | 79.90 | ng    | # 72     |
| 68) Atrazine                   | 11.15 | 200  | 597181   | 77.26 | ng    | 98       |
| 69) Pentachlorophenol          | 11.24 | 266  | 435708   | 76.51 | ng    | 98       |
| 70) Phenanthrene               | 11.47 | 178  | 2964108  | 76.47 | ng    | 99       |
| 71) Anthracene                 | 11.52 | 178  | 2449995  | 62.77 | ng    | 98       |
| 72) Carbazole                  | 11.66 | 167  | 2245678  | 66.06 | ng    | 98       |
| 73) Di-n-butylphthalate        | 12.01 | 149  | 2816973  | 65.09 | ng    | 98       |
| 74) Fluoranthene               | 12.66 | 202  | 2888473  | 72.89 | ng    | 94       |
| 76) Benzidine                  | 12.77 | 184  | 1642065  | 80.16 | ng    | # 91     |
| 77) Pyrene                     | 12.89 | 202  | 2990696  | 88.92 | ng    | 99       |
| 79) Butylbenzylphthalate       | 13.51 | 149  | 1211978  | 82.27 | ng    | 95       |
| 80) Benzo(a)anthracene         | 14.08 | 228  | 2346490  | 81.33 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 14.04 | 252  | 809551   | 81.43 | ng    | # 94     |
| 82) Chrysene                   | 14.11 | 228  | 2063193  | 78.89 | ng    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 14.08 | 149  | 1721657  | 90.15 | ng    | 98       |
| 84) Di-n-octyl phthalate       | 14.69 | 149  | 2580259  | 86.62 | ng    | 99       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.98 | 276  | 1981191  | 91.80 | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 15.12 | 252  | 1690376  | 63.15 | ng    | 98       |
| 88) Benzo(k)fluoranthene       | 15.15 | 252  | 1758017m | 86.21 | ng    |          |
| 89) Benzo(a)pyrene             | 15.48 | 252  | 1618157  | 76.76 | ng    | # 96     |
| 90) Dibenzo(a,h)anthracene     | 17.00 | 278  | 1645722  | 83.67 | ng    | # 97     |
| 91) Benzo(g,h,i)perylene       | 17.41 | 276  | 1598849  | 83.88 | ng    | 99       |

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

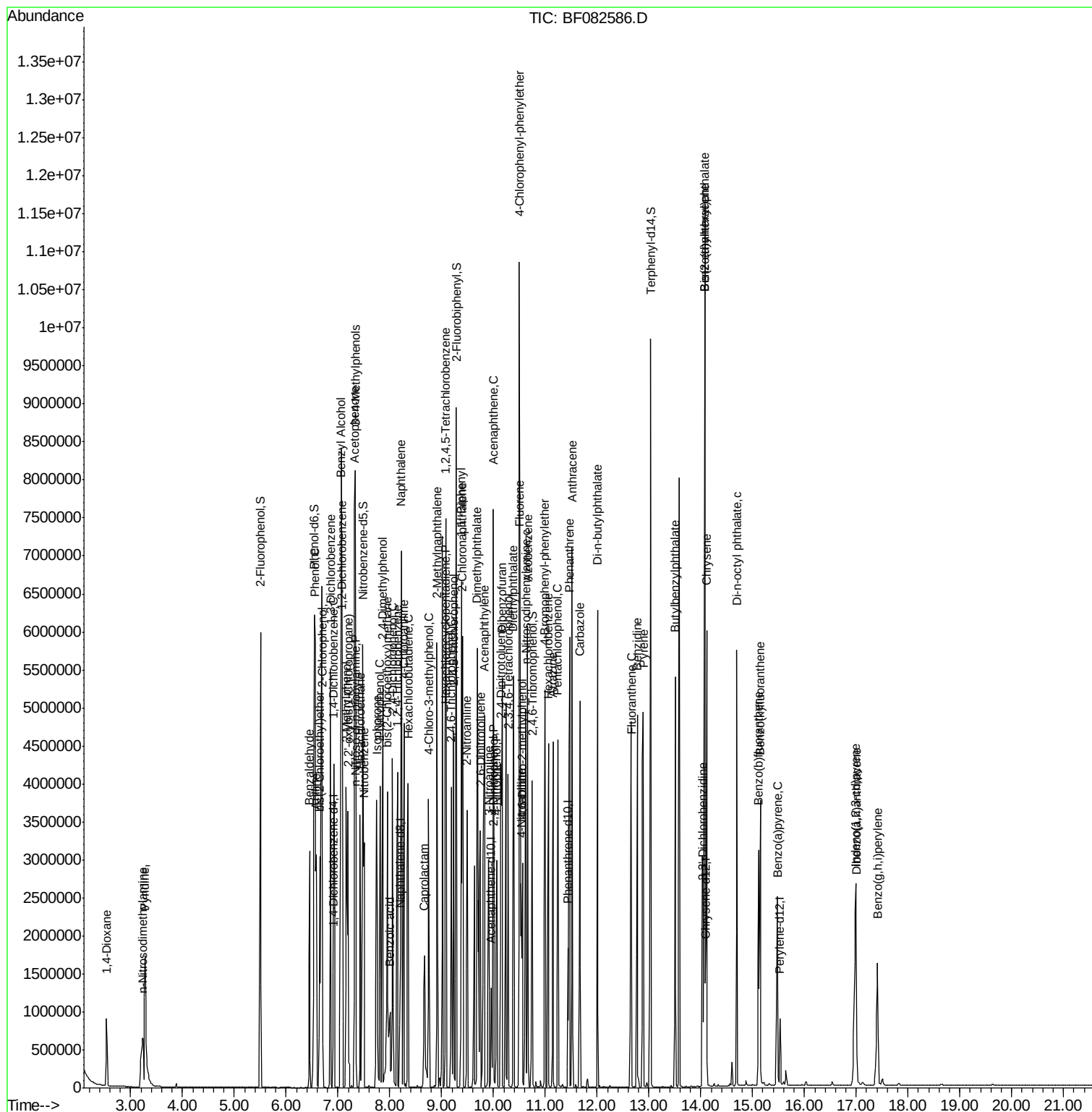
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Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103015\
Data File : BF082586.D
Acq On    : 30 Oct 2015   22:01
Operator  : UM/IZ
Sample    : SSTDICV040
Misc      :
ALS Vial  : 9      Sample Multiplier: 1
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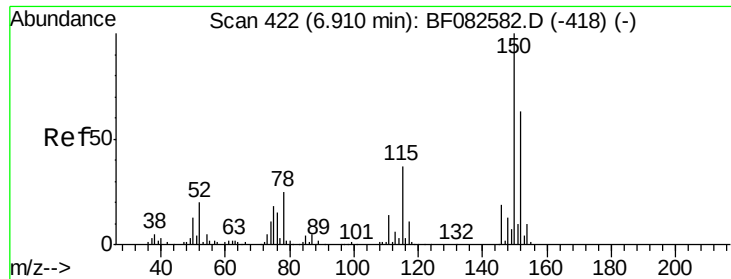
**Instrument :**  
BNA\_F  
**ClientSampleId :**  
ICVBF103015

## Manual Integrations APPROVED

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11/2/2015 4:32:04 PM

Quant Time: Oct 30 23:50:38 2015  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Oct 31 00:17:39 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.91 min Scan# 422

Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015

Tgt Ion:152 Resp: 195844

Ion Ratio Lower Upper

152 100

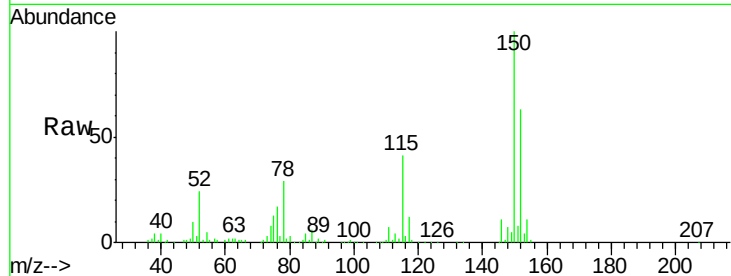
150 158.7 127.0 190.4

115 65.4 47.0 70.6

Manual Integrations  
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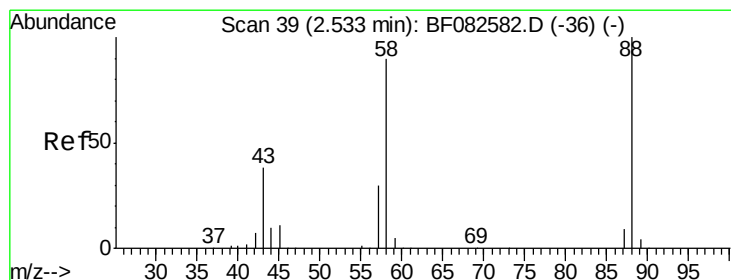
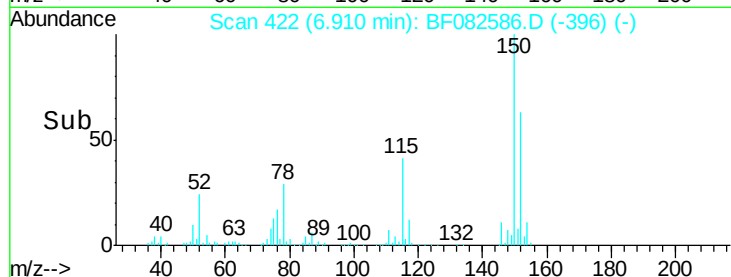
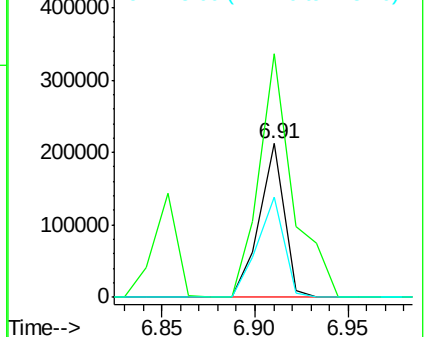
11/2/2015 4:32:04 PM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 70.45 ng

RT: 2.53 min Scan# 39

Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

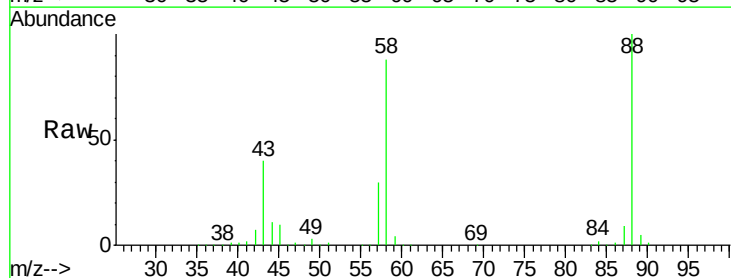
Tgt Ion: 88 Resp: 423473

Ion Ratio Lower Upper

88 100

58 85.2 62.0 93.0

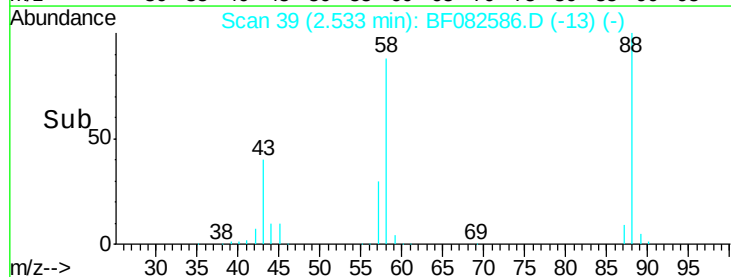
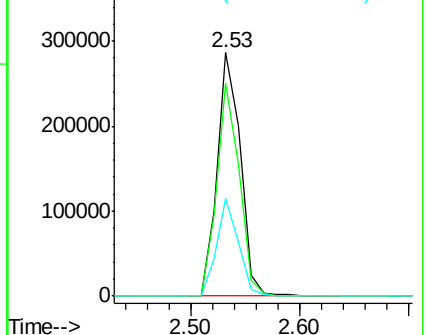
43 38.2 26.6 40.0

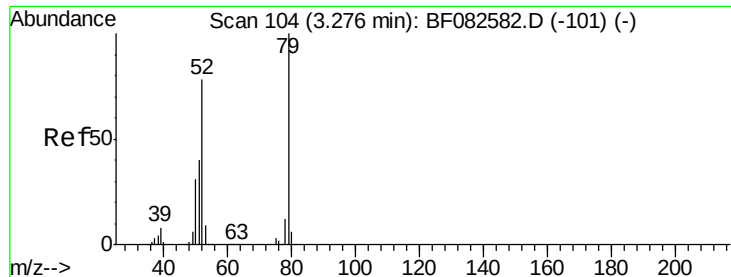


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 73.32 ng

RT: 3.28 min Scan# 104

Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015

Tgt Ion: 79 Resp: 1292293

Ion Ratio Lower Upper

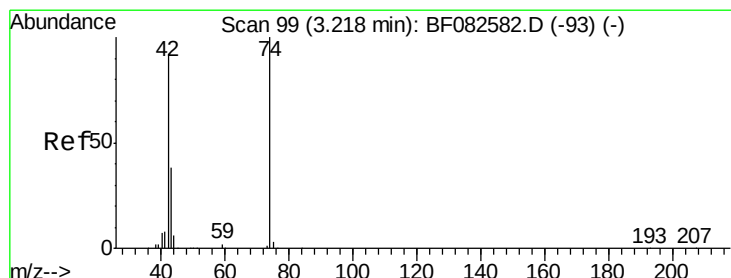
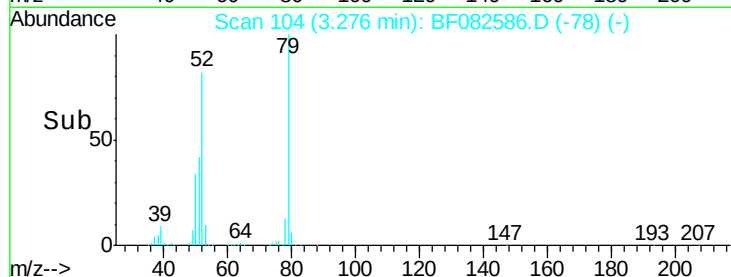
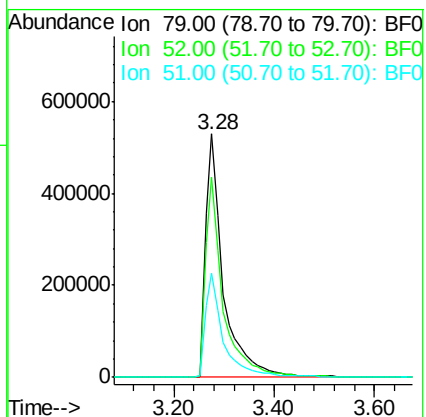
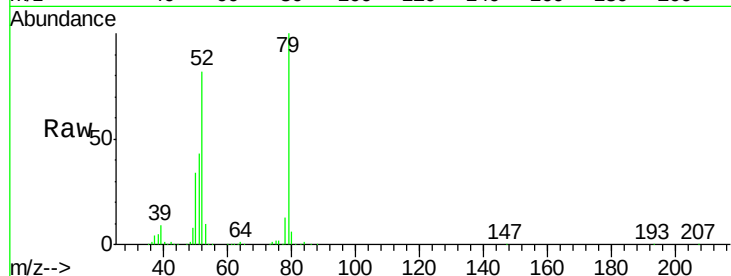
79 100

52 82.1 62.8 94.2

51 42.7 32.0 48.0

Manual Integrations  
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#4

n-Nitrosodimethylamine

Concen: 72.75 ng

RT: 3.23 min Scan# 100

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

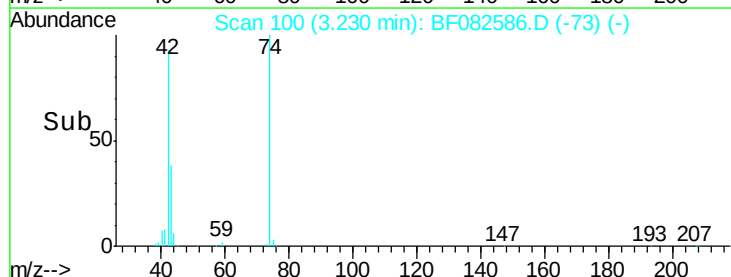
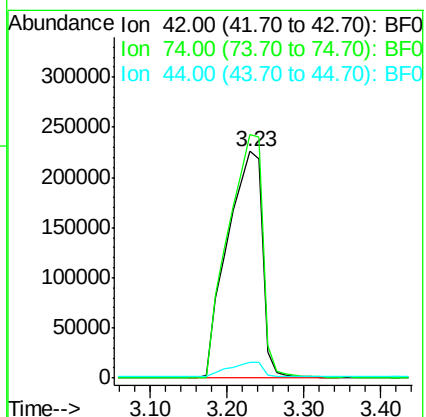
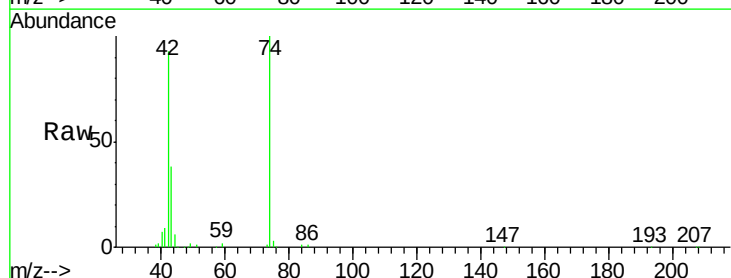
Tgt Ion: 42 Resp: 721792

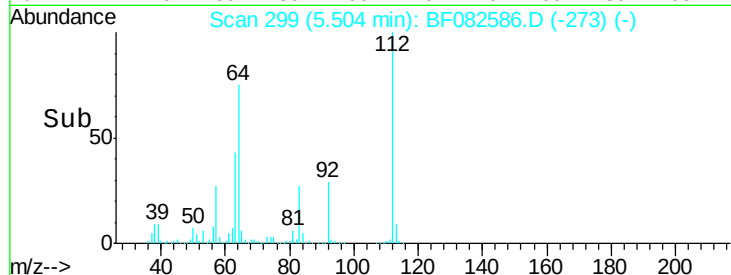
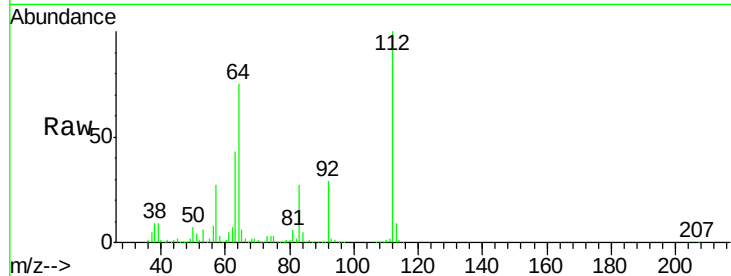
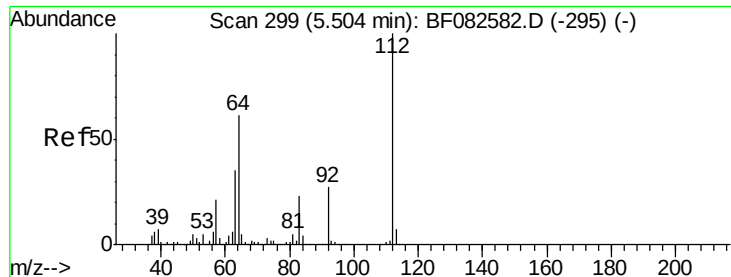
Ion Ratio Lower Upper

42 100

74 107.3 87.0 130.4

44 6.9 5.8 8.8





#5

2-Fluorophenol

Concen: 129.79 ng

RT: 5.50 min Scan# 299

Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

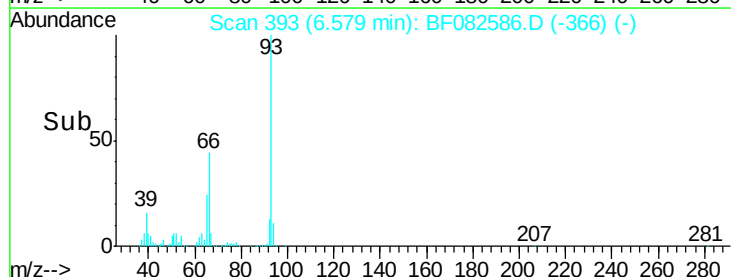
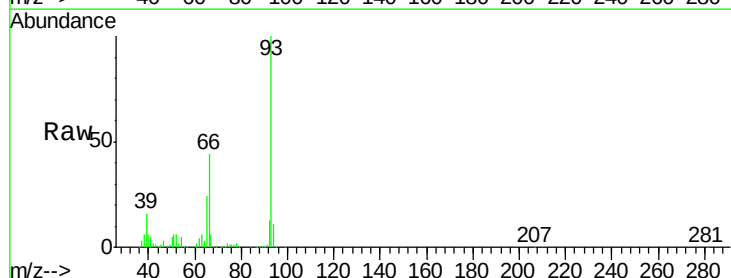
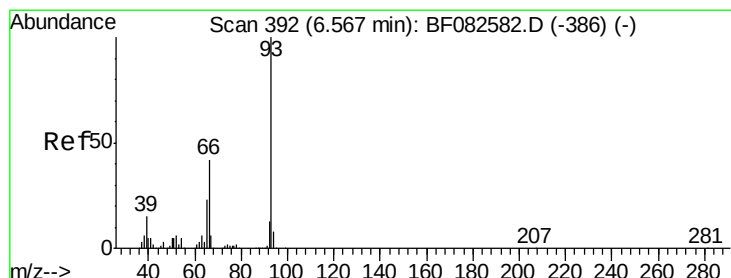
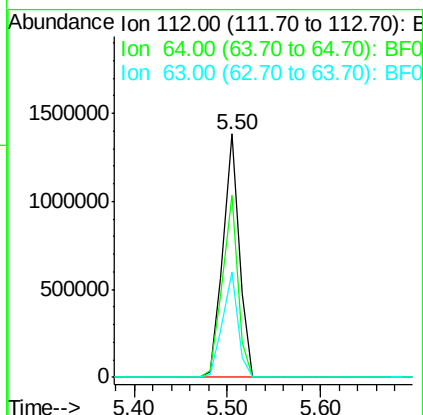
ClientSampleId :

ICVBF103015

Manual Integrations  
APPROVED

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11/2/2015 4:32:04 PM

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 112   | Resp: | 1687599 |
| Ion      | Ratio | Lower | Upper   |
| 112      | 100   |       |         |
| 64       | 74.6  | 48.9  | 73.3#   |
| 63       | 43.1  | 28.1  | 42.1#   |



#6

Aniline

Concen: 69.00 ng

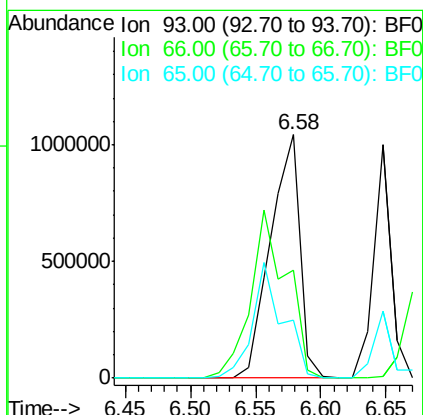
RT: 6.58 min Scan# 393

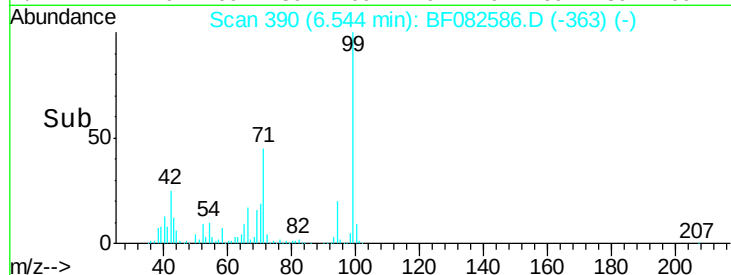
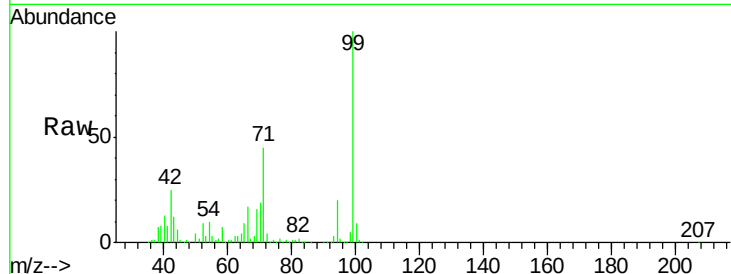
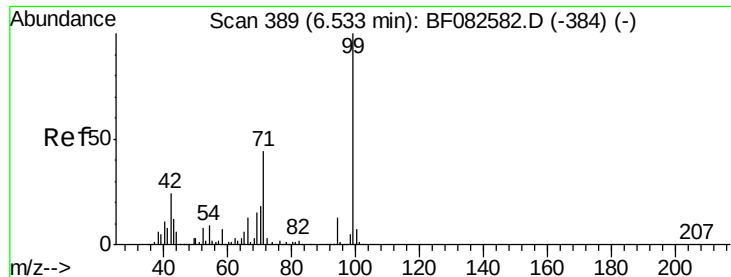
Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 93    | Resp: | 1659530 |
| Ion      | Ratio | Lower | Upper   |
| 93       | 100   |       |         |
| 66       | 44.4  | 33.6  | 50.4    |
| 65       | 23.7  | 18.1  | 27.1    |





#7

Phenol-d6

Concen: 133.88 ng

RT: 6.54 min Scan# 390

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 99    | Resp: | 2312746 |
| Ion      | Ratio | Lower | Upper   |
| 99       | 100   |       |         |
| 42       | 24.6  | 19.2  | 28.8    |
| 71       | 44.6  | 35.0  | 52.4    |

Instrument :

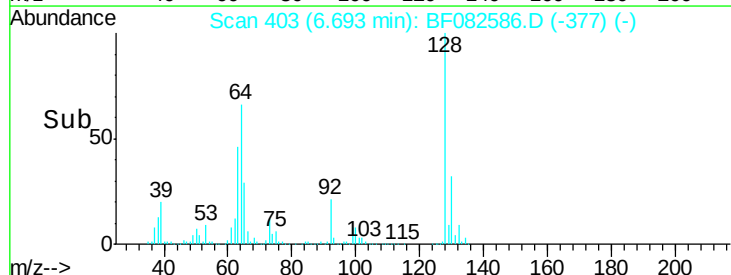
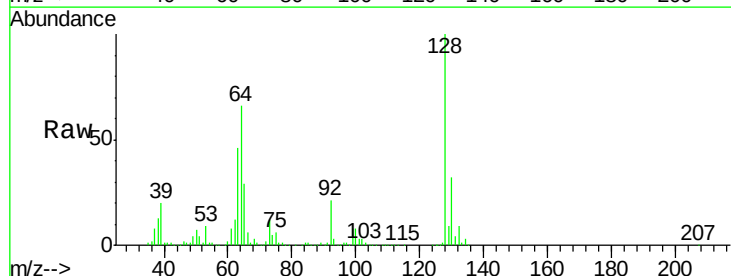
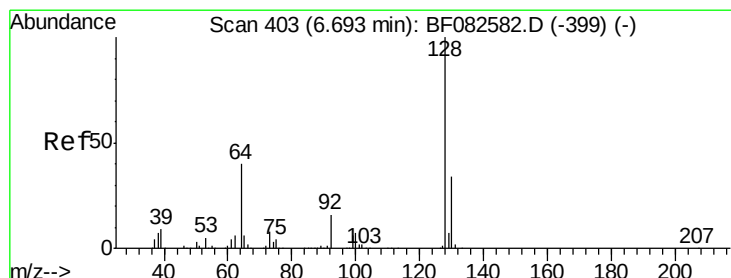
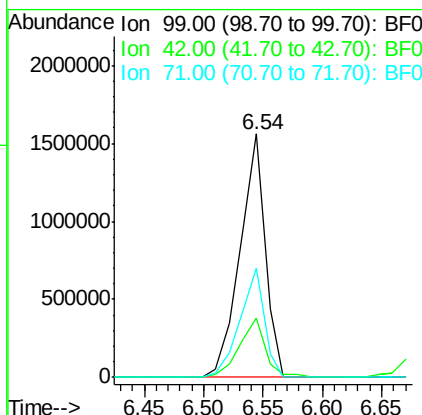
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ClientSampleId :

ICVBF103015

Manual Integrations  
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#8

2-Chlorophenol

Concen: 63.60 ng

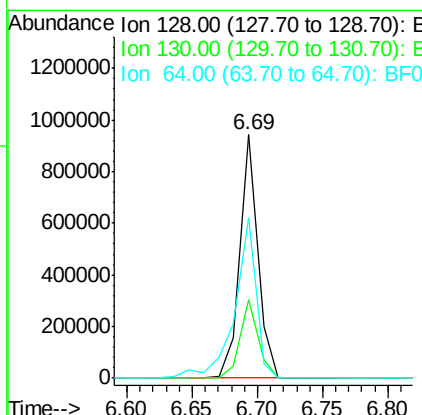
RT: 6.69 min Scan# 403

Delta R.T. 0.00 min

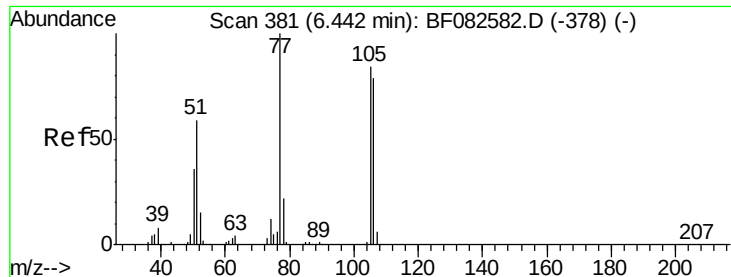
Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 894840 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 130      | 32.4  | 13.5  | 53.5   |
| 64       | 66.0  | 21.1  | 61.1   |







#9

Benzaldehyde

Concen: 64.60 ng

RT: 6.45 min Scan# 382

Delta R.T. 0.01 min

Lab File: BF082586.D

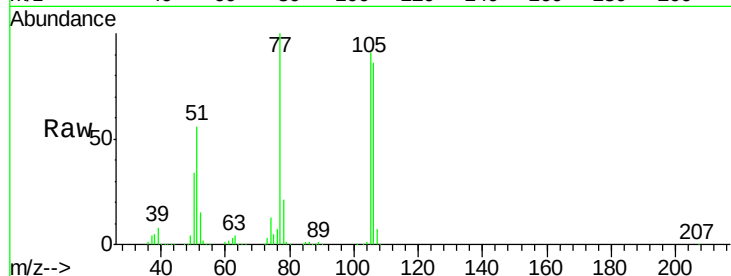
Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

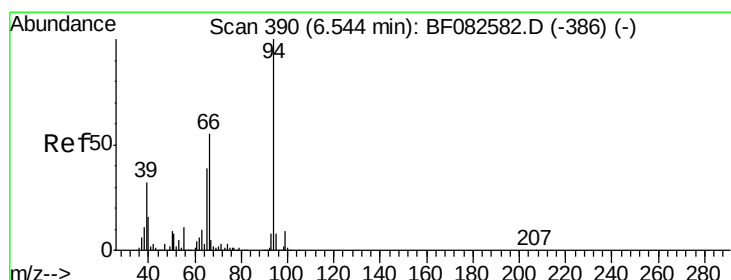
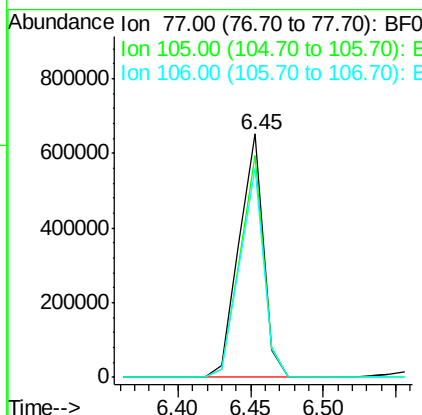
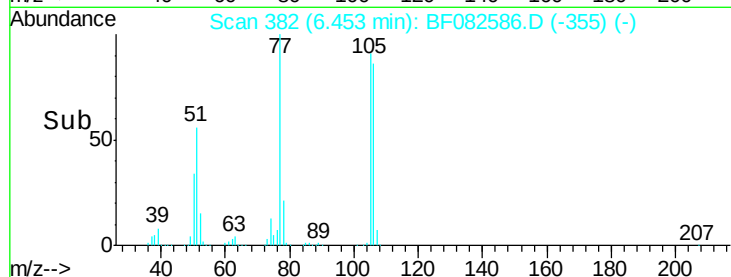
ICVBF103015



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 761846 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 105       | 91.1  | 63.5  | 103.5  |
| 106       | 86.0  | 59.3  | 99.3   |

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#10

Phenol

Concen: 63.28 ng

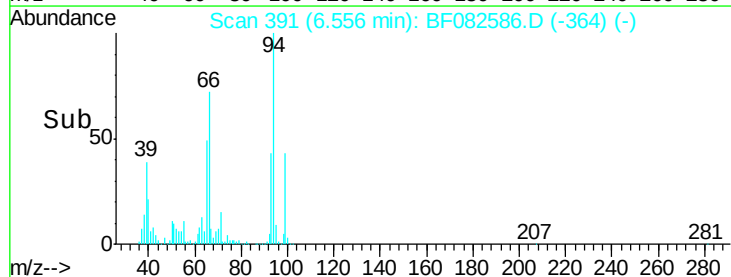
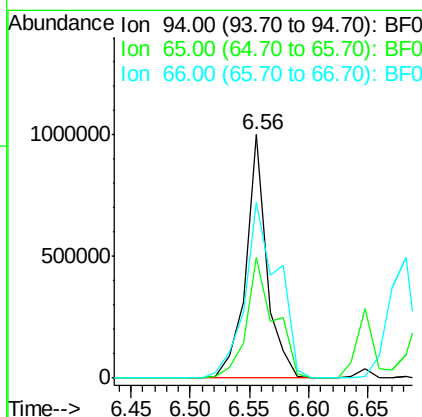
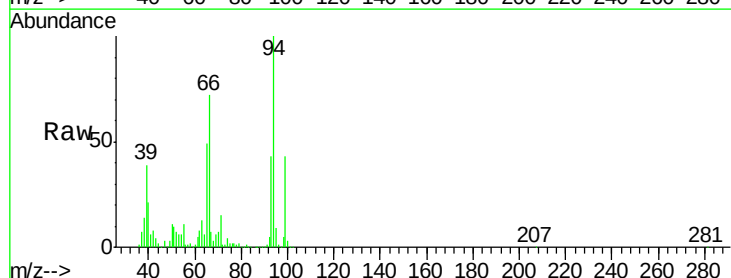
RT: 6.56 min Scan# 391

Delta R.T. 0.01 min

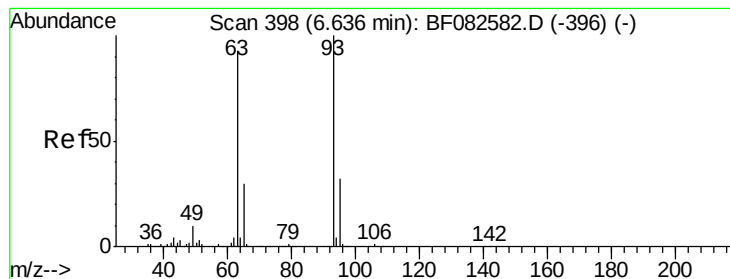
Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 94    | Resp: | 1238610 |
| Ion Ratio | Lower | Upper |         |
| 94        | 100   |       |         |
| 65        | 49.4  | 18.9  | 58.9    |
| 66        | 72.1  | 34.9  | 74.9    |







#11

bis(2-Chloroethyl)ether

Concen: 63.92 ng

RT: 6.65 min Scan# 399

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

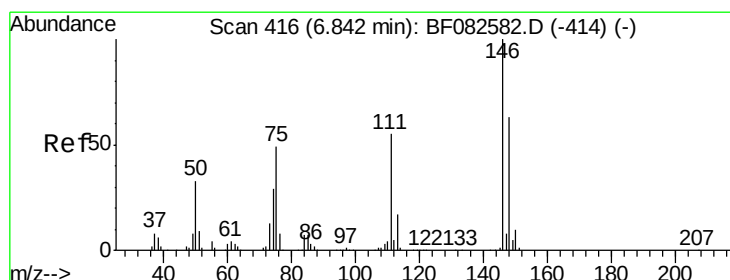
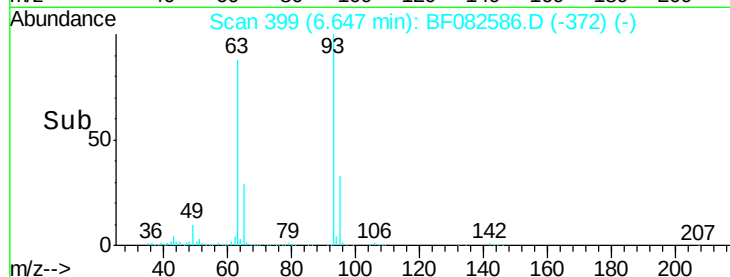
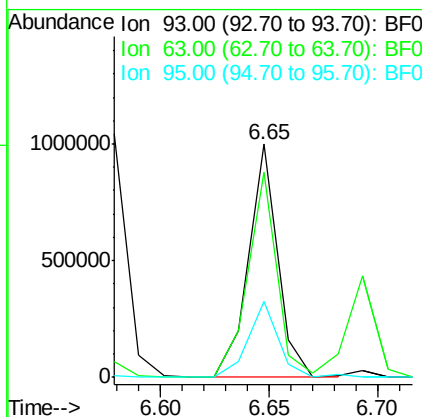
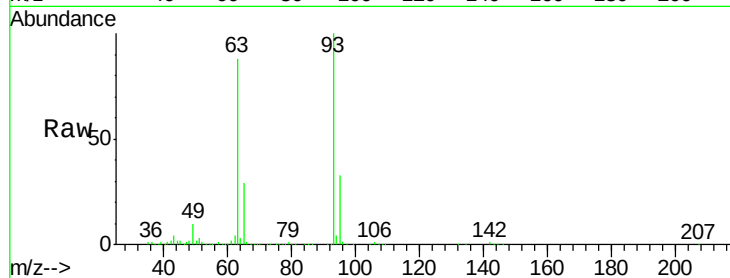
ClientSampleId :

ICVBF103015

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 93    | Resp: | 923024 |
| Ion      | Ratio | Lower | Upper  |
| 93       | 100   |       |        |
| 63       | 88.1  | 72.7  | 112.7  |
| 95       | 32.7  | 12.0  | 52.0   |

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#12

1,3-Dichlorobenzene

Concen: 74.85 ng m

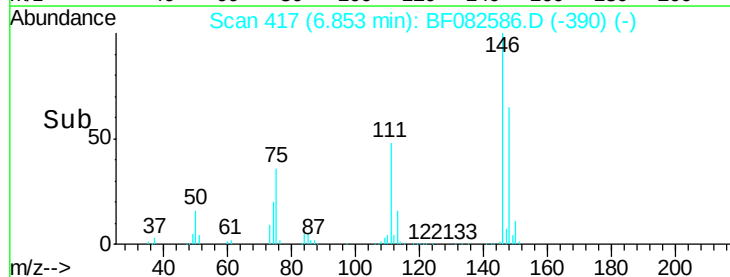
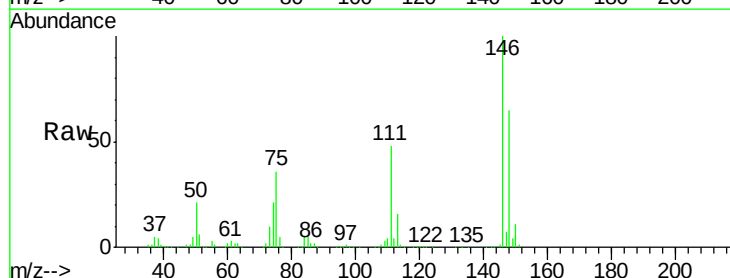
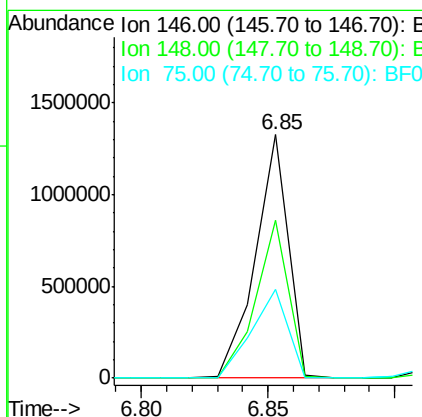
RT: 6.85 min Scan# 417

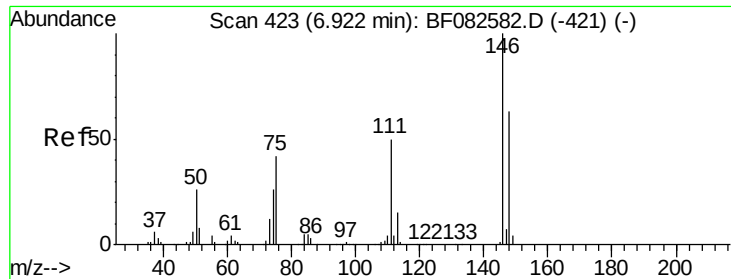
Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 146   | Resp: | 1200899 |
| Ion      | Ratio | Lower | Upper   |
| 146      | 100   |       |         |
| 148      | 64.8  | 50.5  | 75.7    |
| 75       | 36.4  | 39.5  | 59.3#   |





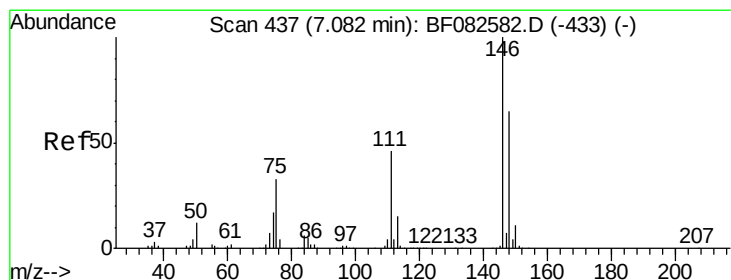
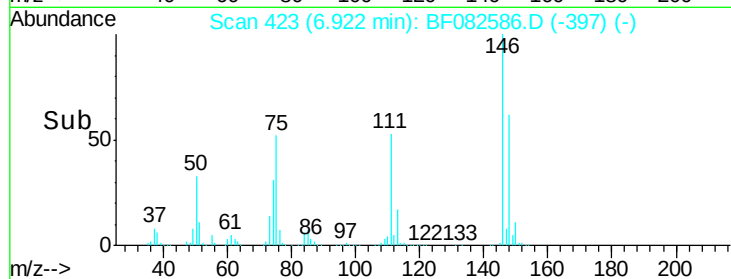
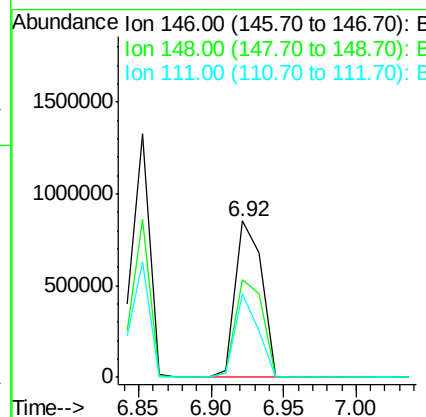
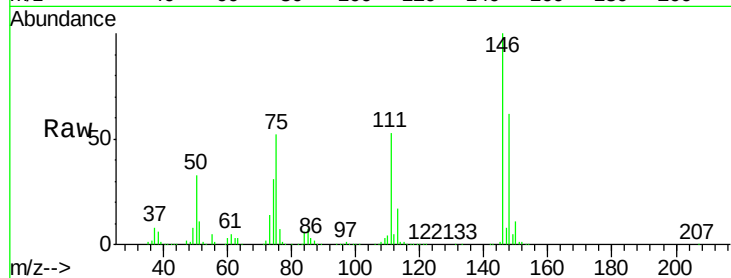
#13  
1,4-Dichlorobenzene  
Concen: 67.60 ng  
RT: 6.92 min Scan# 423  
Delta R.T. 0.00 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF103015

Tgt Ion:146 Resp: 1075647  
Ion Ratio Lower Upper  
146 100  
148 62.3 50.8 76.2  
111 53.4 40.6 60.8

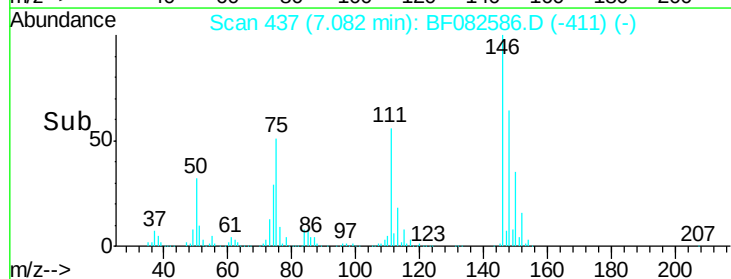
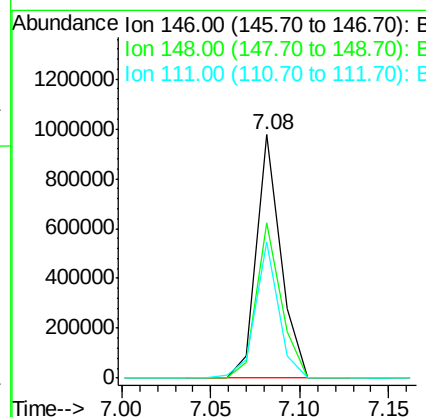
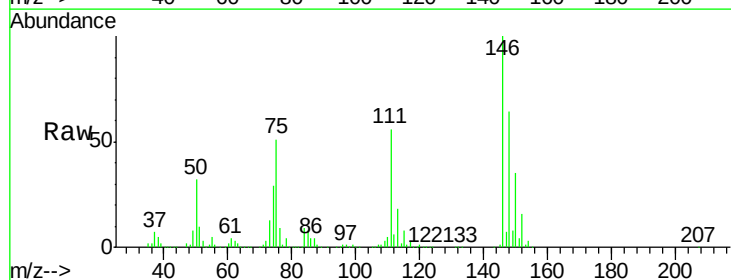
Manual Integrations  
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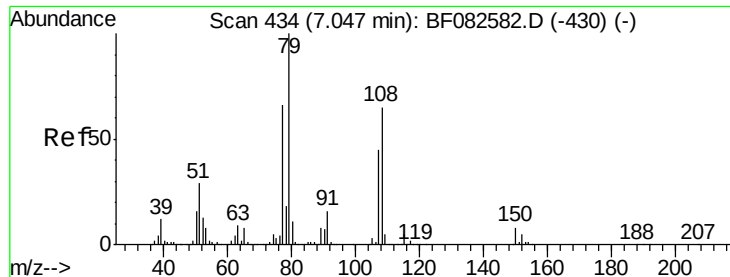
Mmdadoda  
11/2/2015 4:32:04 PM



#14  
1,2-Dichlorobenzene  
Concen: 62.74 ng m  
RT: 7.08 min Scan# 437  
Delta R.T. 0.00 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Tgt Ion:146 Resp: 926531  
Ion Ratio Lower Upper  
146 100  
148 63.9 52.2 78.4  
111 55.9 36.6 55.0#





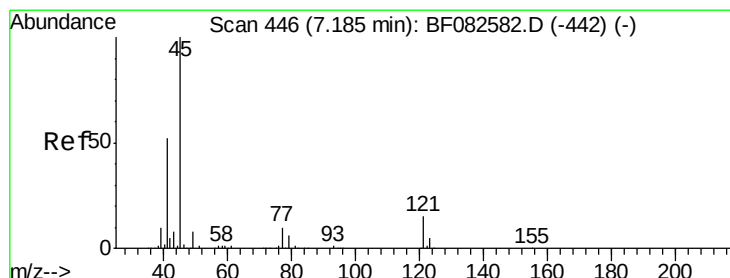
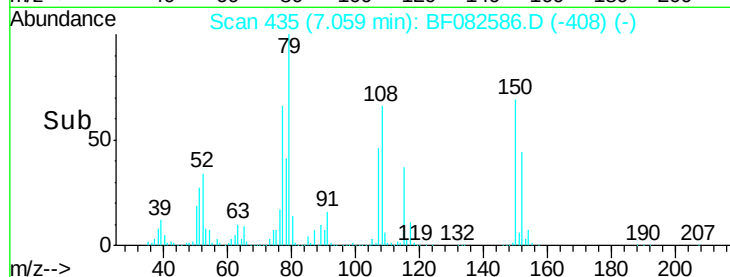
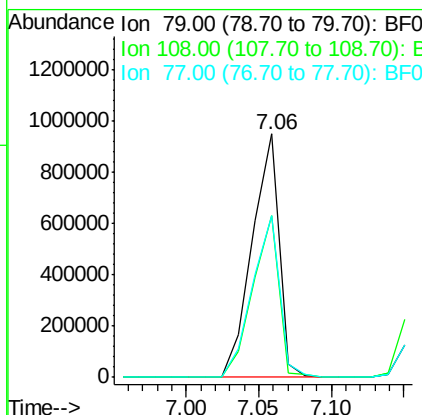
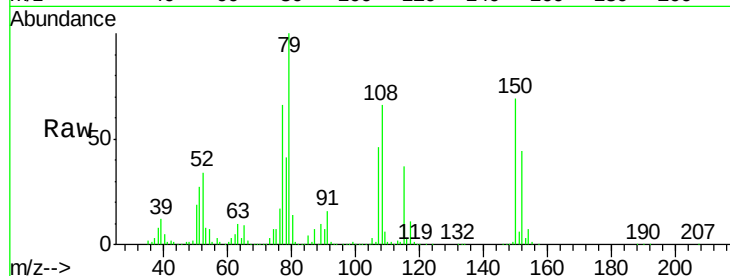
#15  
Benzyl Alcohol  
Concen: 76.16 ng  
RT: 7.06 min Scan# 435  
Delta R.T. 0.01 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF103015

Tgt Ion: 79 Resp: 1226885  
Ion Ratio Lower Upper  
79 100  
108 66.2 52.2 78.4  
77 66.3 52.7 79.1

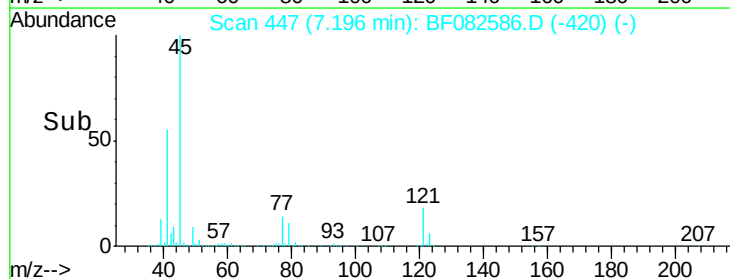
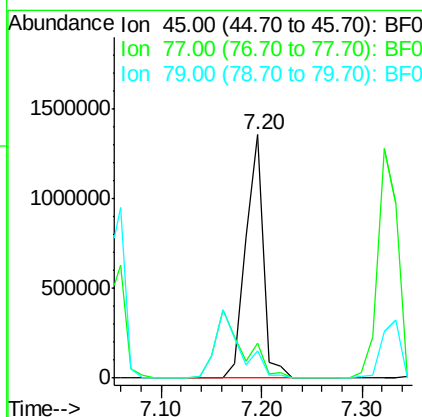
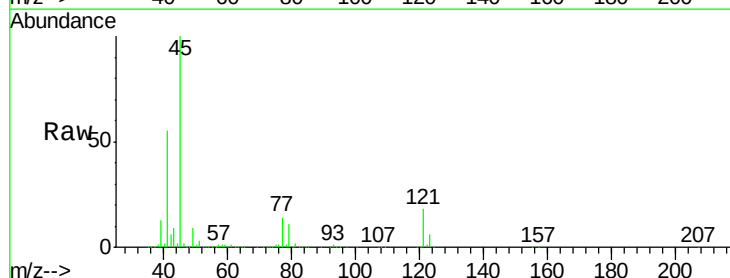
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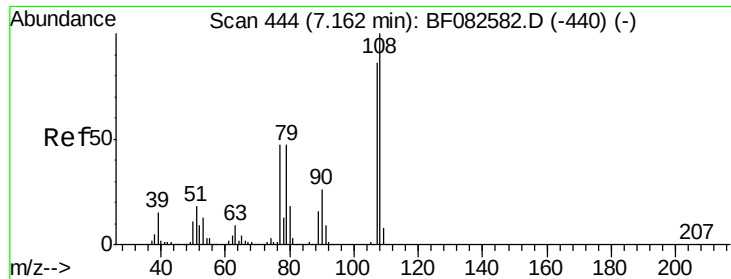
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11/2/2015 4:32:04 PM



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 70.84 ng  
RT: 7.20 min Scan# 447  
Delta R.T. 0.01 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Tgt Ion: 45 Resp: 1625729  
Ion Ratio Lower Upper  
45 100  
77 14.2 0.0 32.6  
79 11.3 0.0 29.2





#17

2-Methylphenol

Concen: 72.05 ng

RT: 7.16 min Scan# 444

Delta R.T. 0.00 min

Lab File: BF082586.D

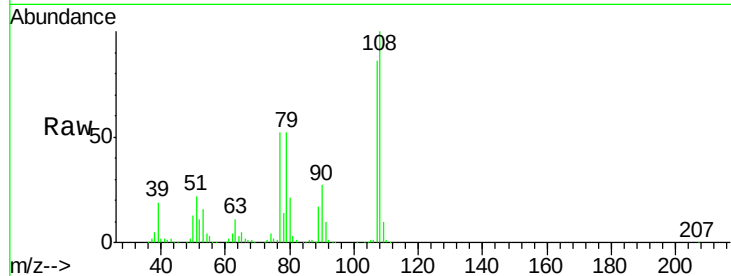
Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

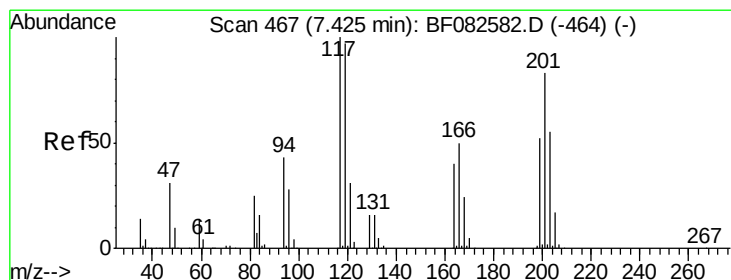
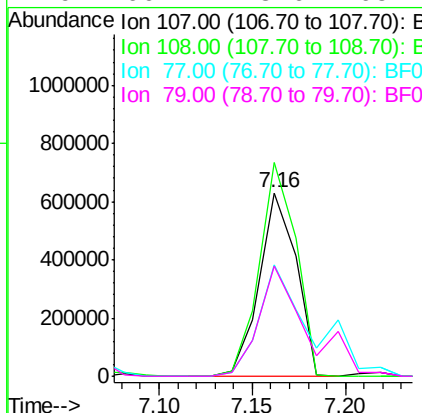
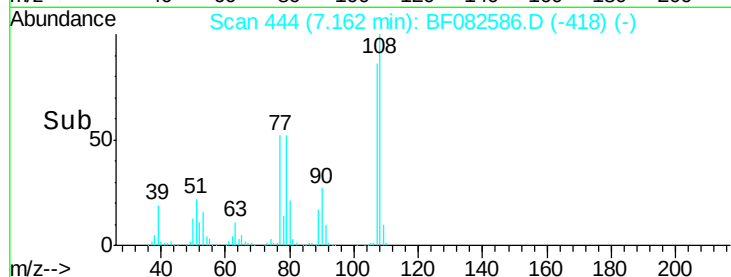
ICVBF103015



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 861911 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 108       | 116.6 | 93.0  | 139.4  |
| 77        | 60.7  | 44.1  | 66.1   |
| 79        | 60.1  | 43.6  | 65.4   |

Manual Integrations  
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#18

Hexachloroethane

Concen: 68.02 ng

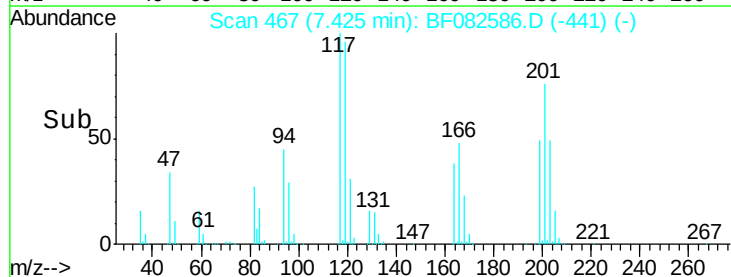
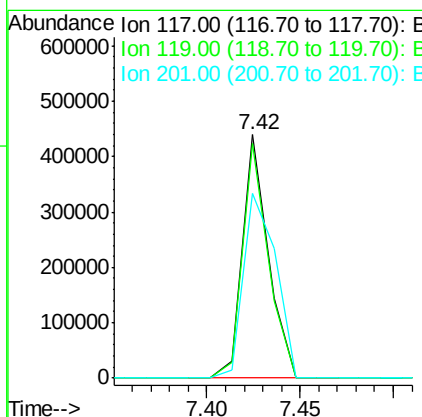
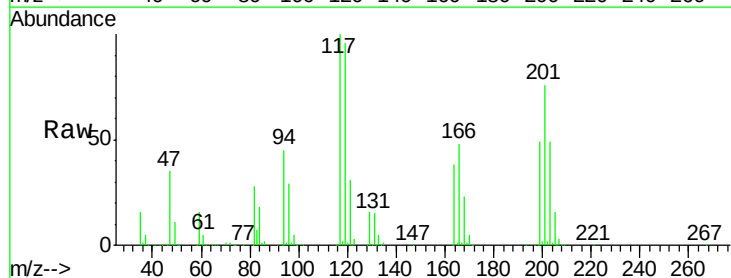
RT: 7.42 min Scan# 467

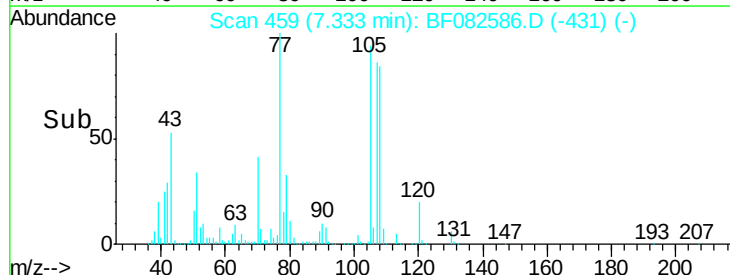
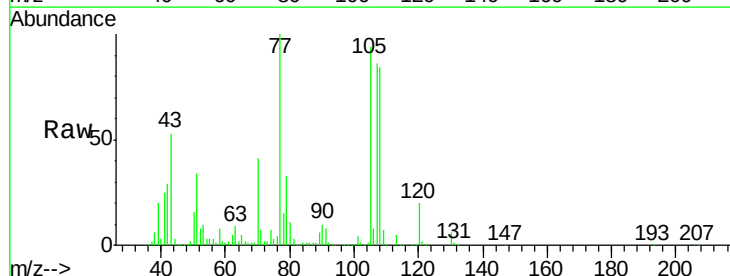
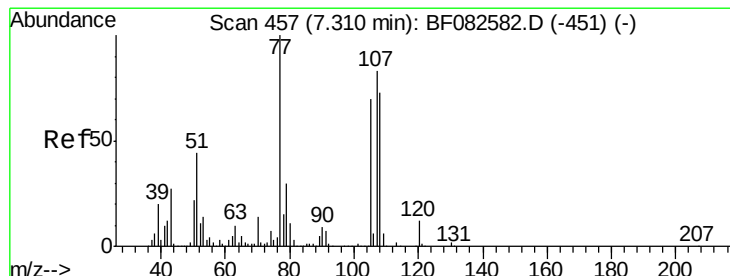
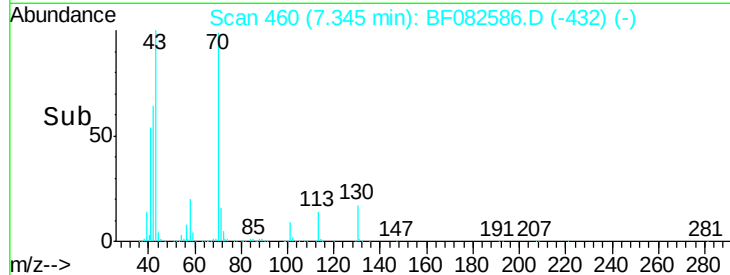
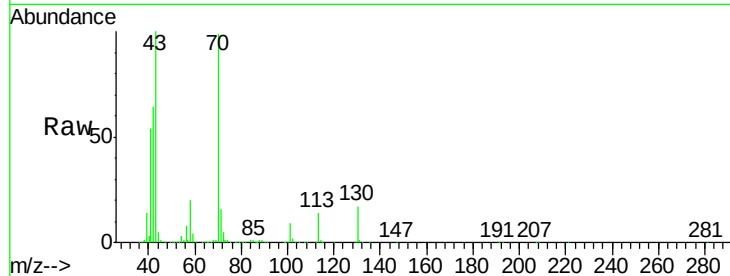
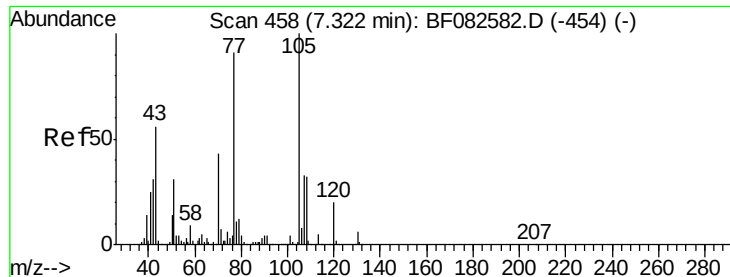
Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

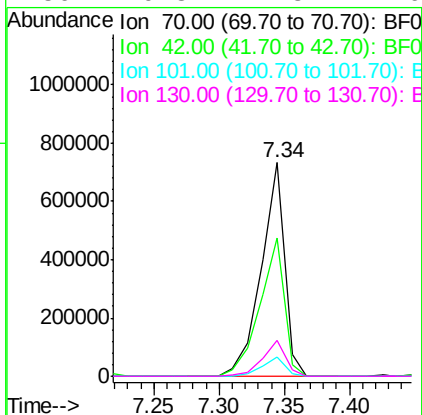
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 422382 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 96.1  | 77.7  | 116.5  |
| 201       | 75.9  | 66.7  | 100.1  |





#19  
n-Nitroso-di-n-propylamine  
Concen: 70.72 ng  
RT: 7.34 min Scan# 460  
Delta R.T. 0.02 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 64.8  | 57.7  | 86.5  |
| 101     | 8.8   | 7.0   | 10.6  |
| 130     | 16.8  | 11.8  | 17.6  |



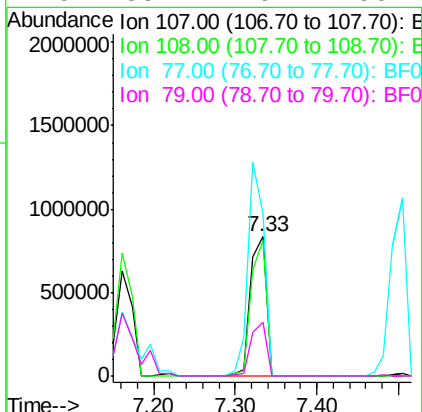
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF103015

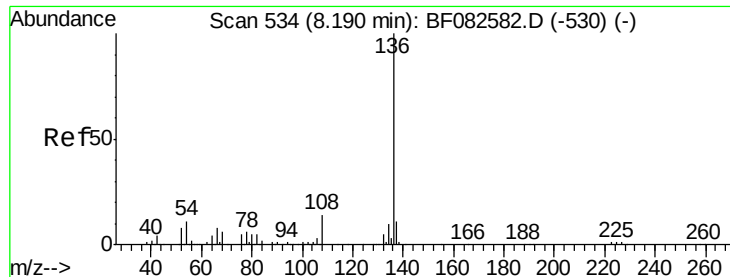
Manual Integrations  
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#20  
3+4-Methylphenols  
Concen: 71.19 ng  
RT: 7.33 min Scan# 459  
Delta R.T. 0.02 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 97.8  | 67.3  | 107.3 |
| 77      | 116.6 | 100.3 | 140.3 |
| 79      | 38.4  | 16.2  | 56.2  |





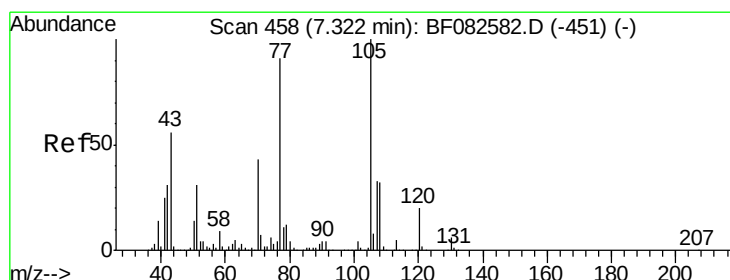
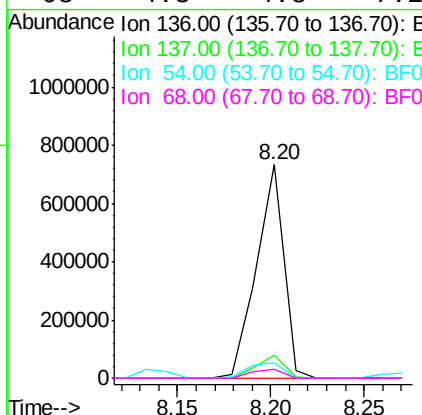
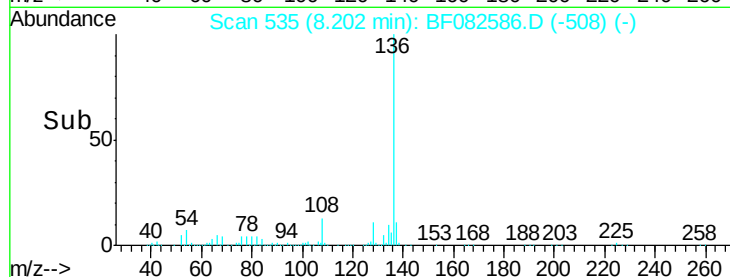
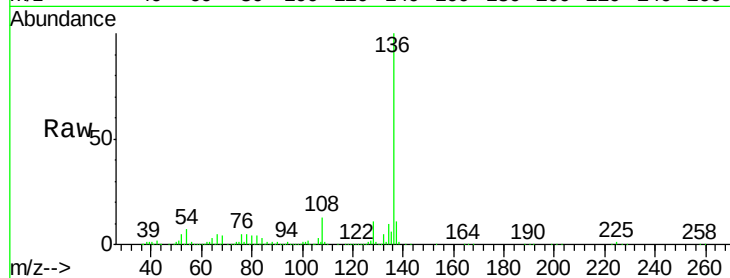
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.20 min Scan# 535  
Delta R.T. 0.01 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF103015

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 739666 |       |       |
| 137     | 11.0  | 9.1    | 13.7  |       |
| 54      | 7.4   | 9.1    | 13.7# |       |
| 68      | 4.3   | 4.8    | 7.2#  |       |

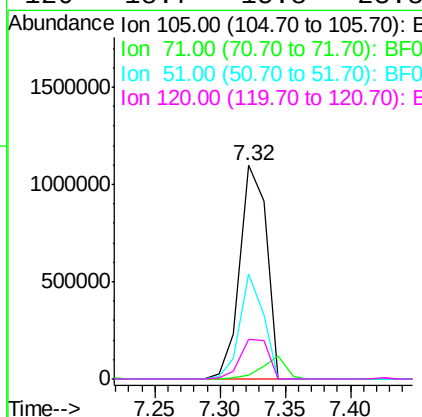
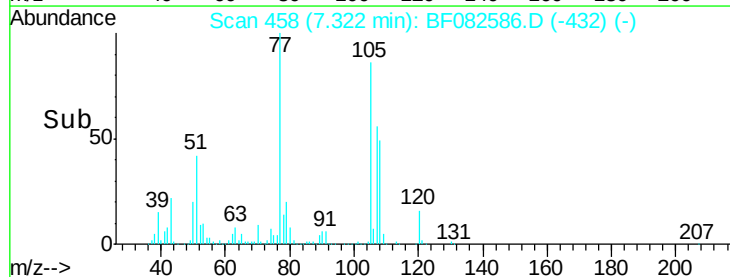
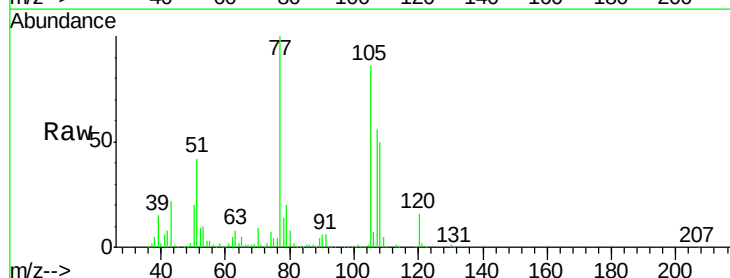
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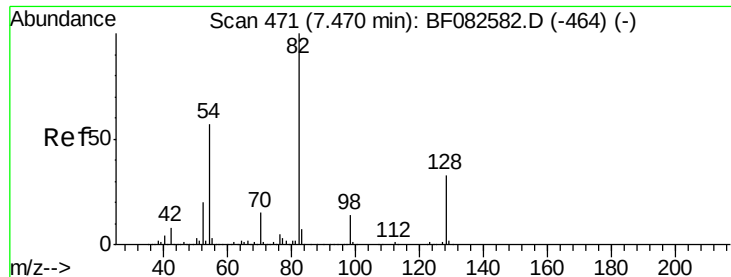
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11/2/2015 4:32:04 PM



#22  
Acetophenone  
Concen: 71.39 ng  
RT: 7.32 min Scan# 458  
Delta R.T. 0.00 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 105     | 100   | 1554521 |       |       |
| 71      | 1.7   | 5.6     | 8.4#  |       |
| 51      | 49.2  | 24.9    | 37.3# |       |
| 120     | 18.7  | 15.8    | 23.8  |       |





#23

Nitrobenzene-d5

Concen: 139.56 ng

RT: 7.48 min Scan# 472

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015

Tgt Ion: 82 Resp: 2527984

Ion Ratio Lower Upper

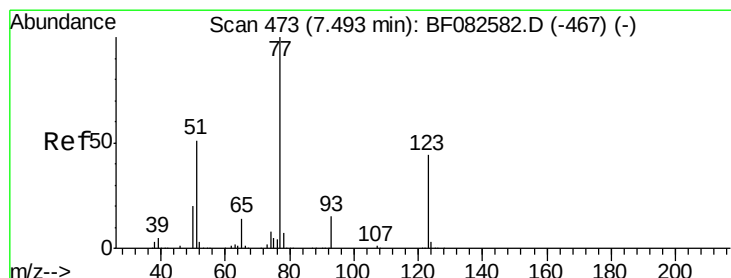
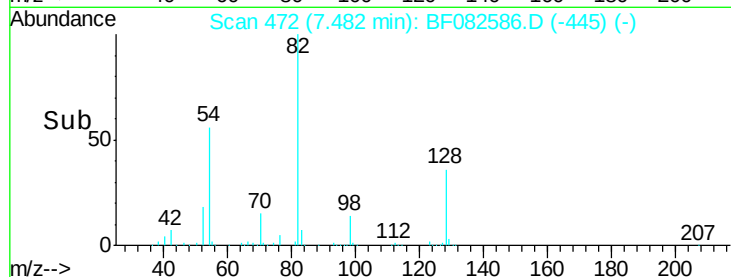
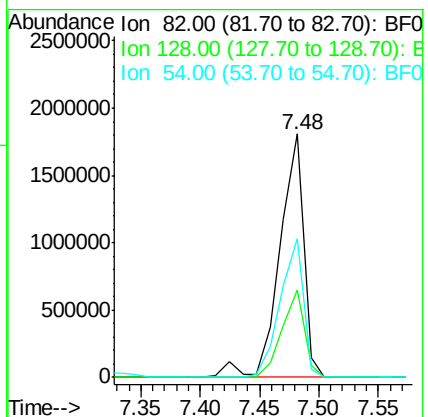
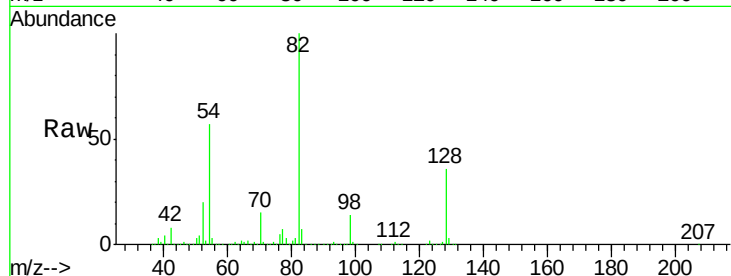
82 100

128 36.1 26.8 40.2

54 56.9 45.7 68.5

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11/2/2015 4:32:04 PM



#24

Nitrobenzene

Concen: 74.72 ng

RT: 7.50 min Scan# 474

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

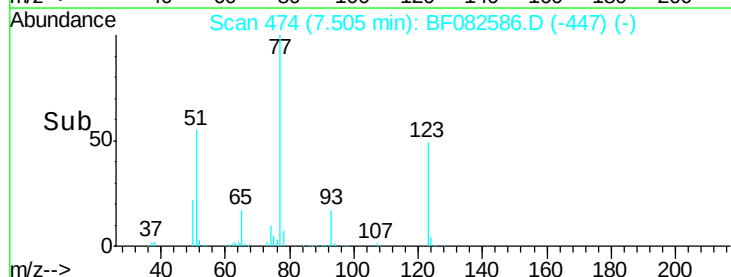
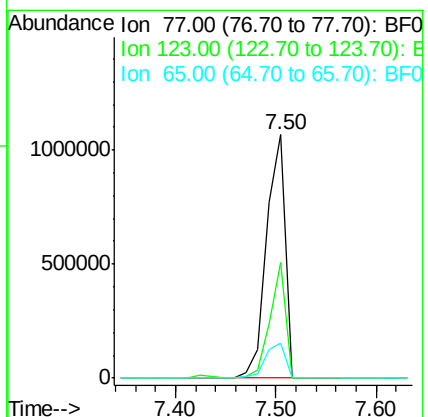
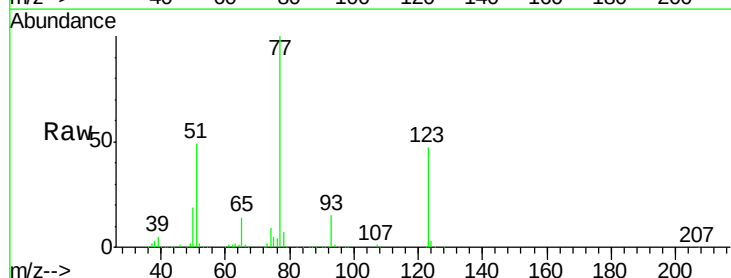
Tgt Ion: 77 Resp: 1368015

Ion Ratio Lower Upper

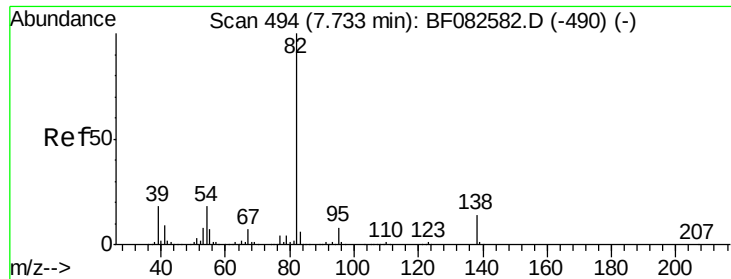
77 100

123 47.4 36.4 54.6

65 14.3 11.5 17.3







#25

Isophorone

Concen: 70.21 ng

RT: 7.74 min Scan# 495

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015

Tgt Ion: 82 Resp: 2339767

Ion Ratio Lower Upper

82 100

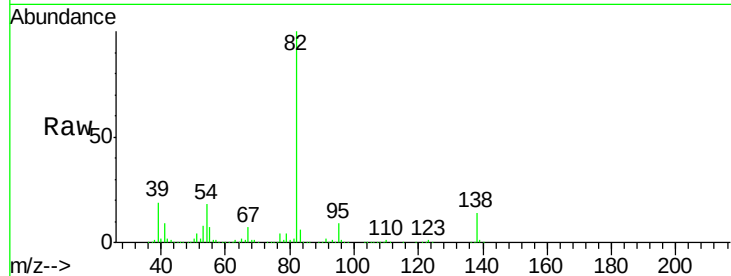
95 8.5 6.6 9.8

138 14.1 11.4 17.0

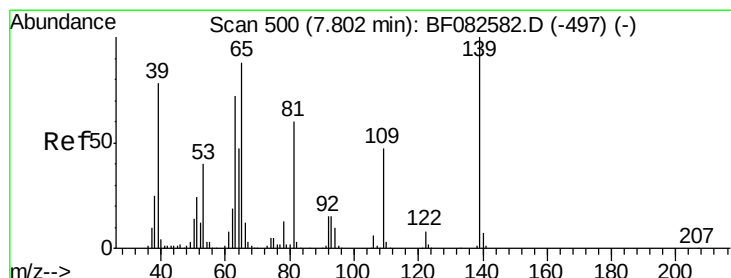
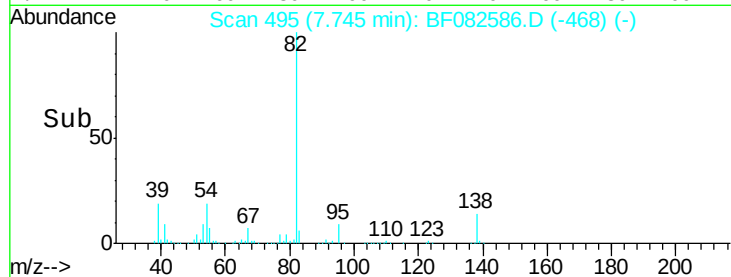
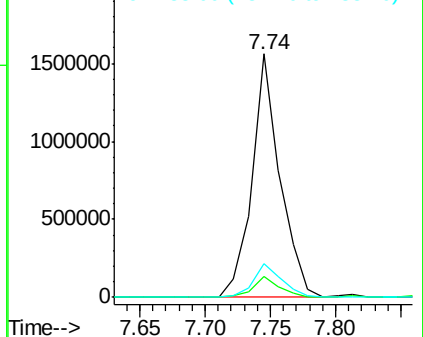
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Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0



#26

2-Nitrophenol

Concen: 78.20 ng

RT: 7.81 min Scan# 501

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

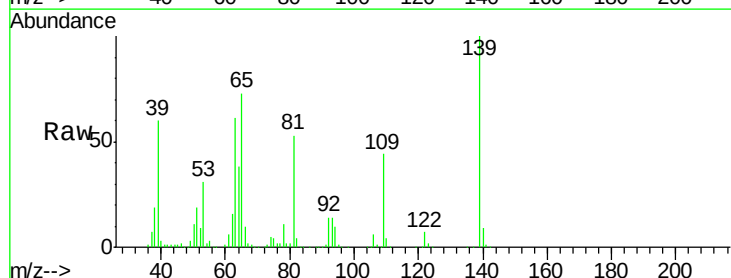
Tgt Ion: 139 Resp: 523029

Ion Ratio Lower Upper

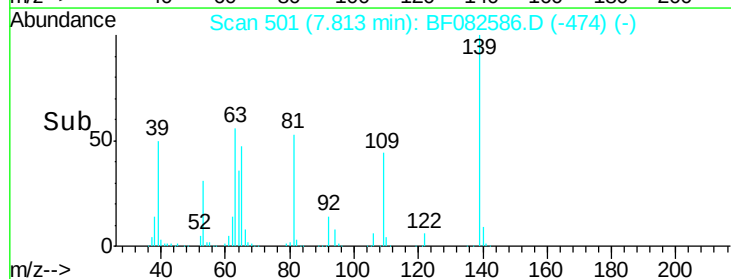
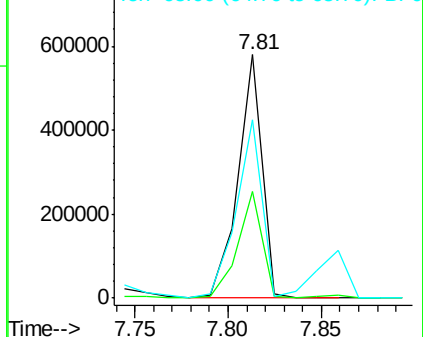
139 100

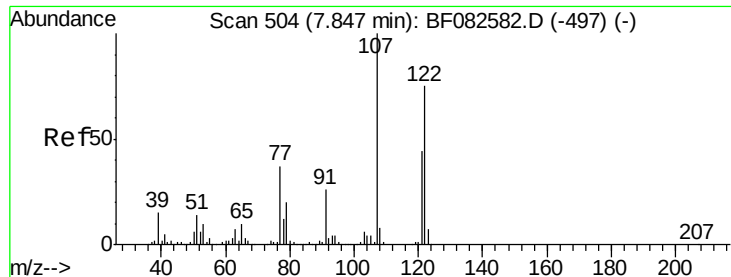
109 44.0 37.6 56.4

65 73.5 70.6 105.8



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





#27

2,4-Dimethylphenol

Concen: 77.03 ng

RT: 7.86 min Scan# 505

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampled :

ICVBF103015

Tgt Ion: 122 Resp: 1005642

Ion Ratio Lower Upper

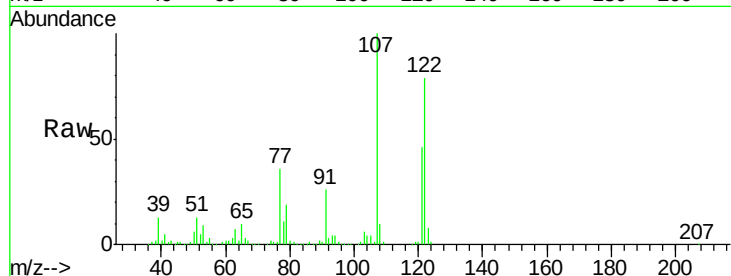
122 100

107 127.1 106.0 159.0

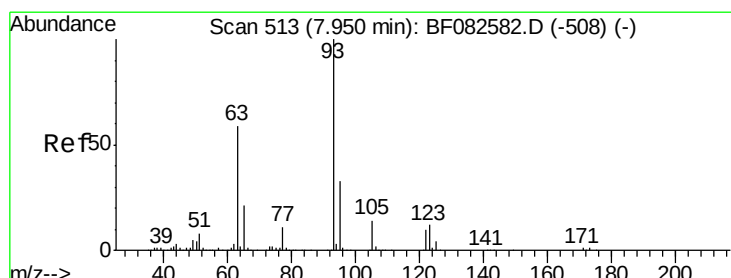
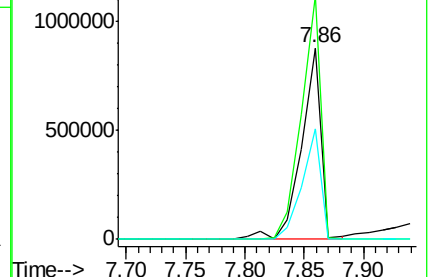
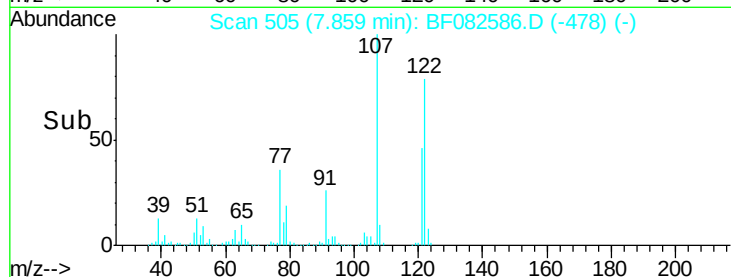
121 57.9 46.7 70.1

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Abundance Ion 122.00 (121.70 to 122.70): E  
1500000 Ion 107.00 (106.70 to 107.70): E  
Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 61.58 ng

RT: 7.95 min Scan# 513

Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

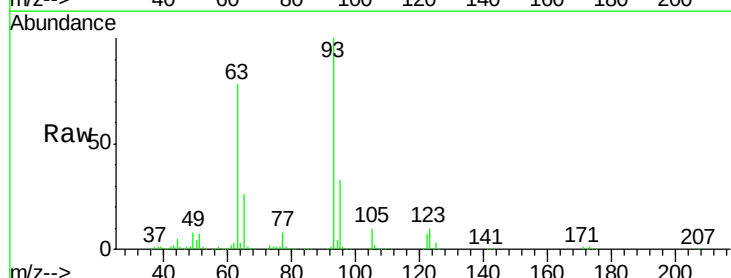
Tgt Ion: 93 Resp: 1122432

Ion Ratio Lower Upper

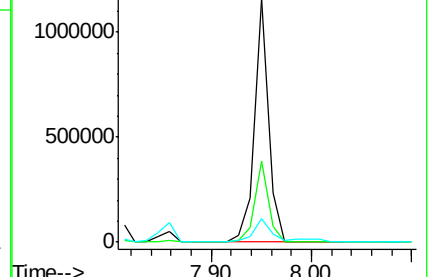
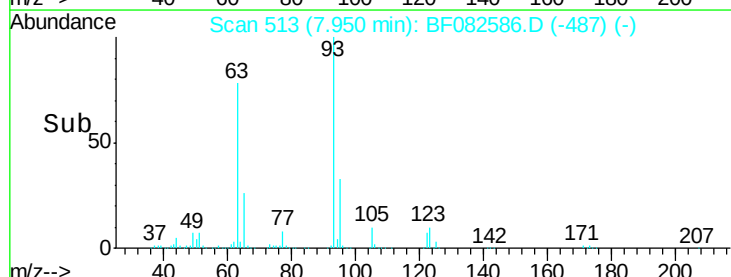
93 100

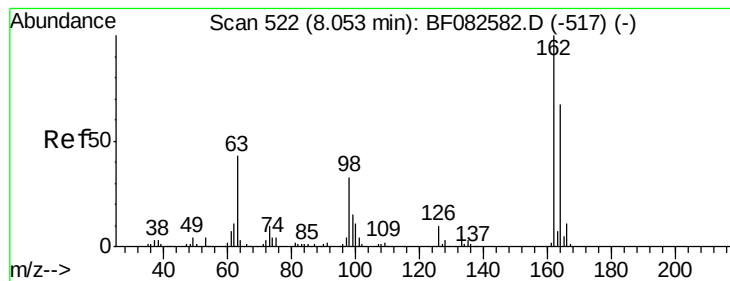
95 33.4 26.6 40.0

123 9.9 9.7 14.5



Abundance Ion 93.00 (92.70 to 93.70): BF0  
1500000 Ion 95.00 (94.70 to 95.70): BF0  
Ion 123.00 (122.70 to 123.70): E





#29

2,4-Dichlorophenol

Concen: 65.35 ng

RT: 8.05 min Scan# 522

Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

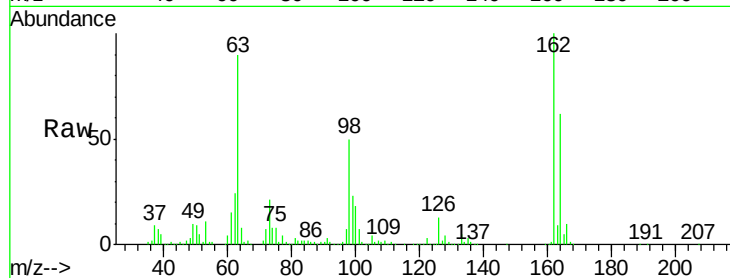
ClientSampleId :

ICVBF103015

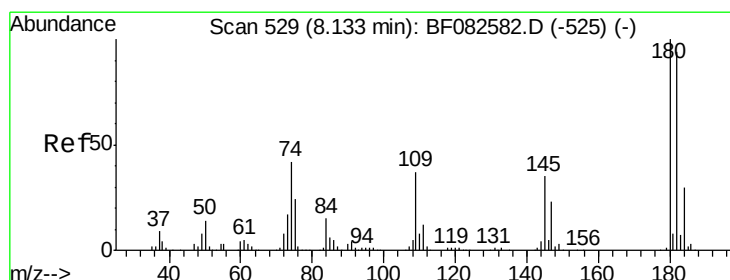
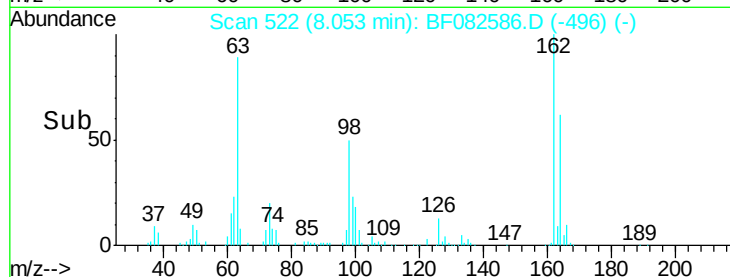
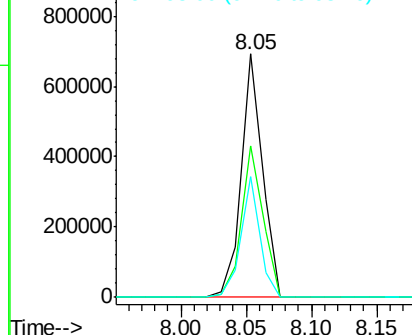
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 777713 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 164       | 62.4  | 46.8  | 86.8   |
| 98        | 49.6  | 12.5  | 52.5   |

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



#30

1,2,4-Trichlorobenzene

Concen: 72.97 ng

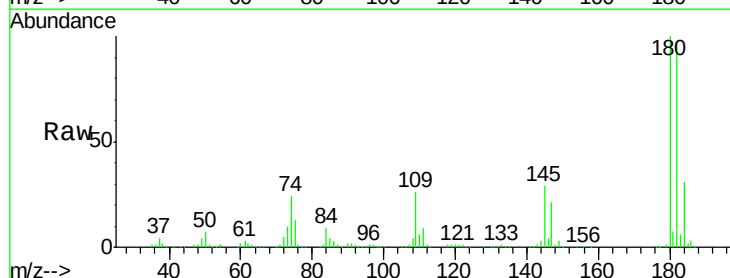
RT: 8.14 min Scan# 530

Delta R.T. 0.01 min

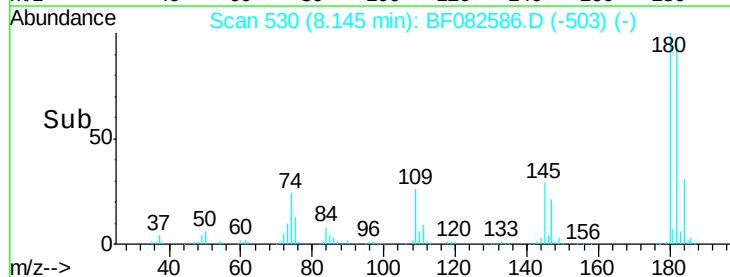
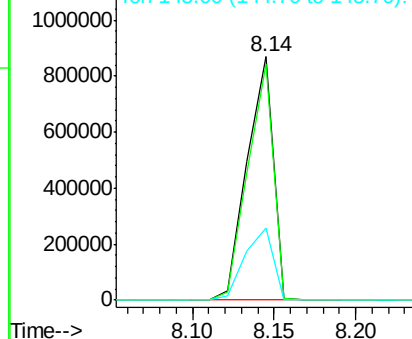
Lab File: BF082586.D

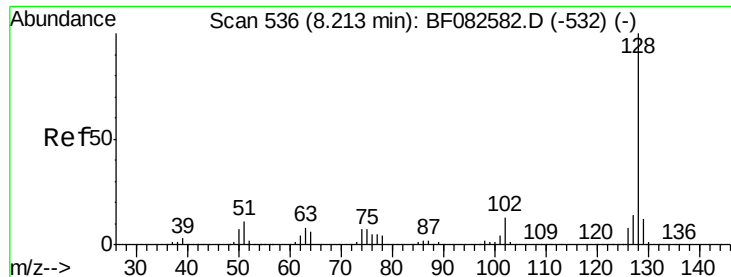
Acq: 30 Oct 2015 22:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 963649 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 96.7  | 74.9  | 112.3  |
| 145       | 29.5  | 27.8  | 41.8   |



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





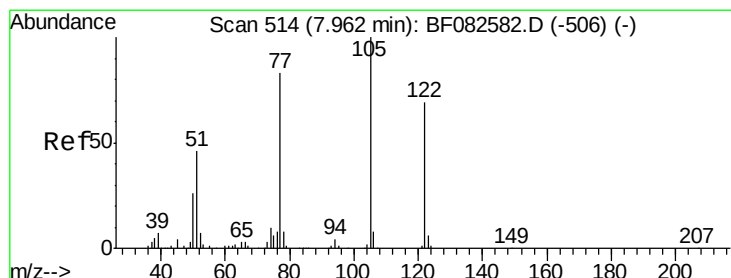
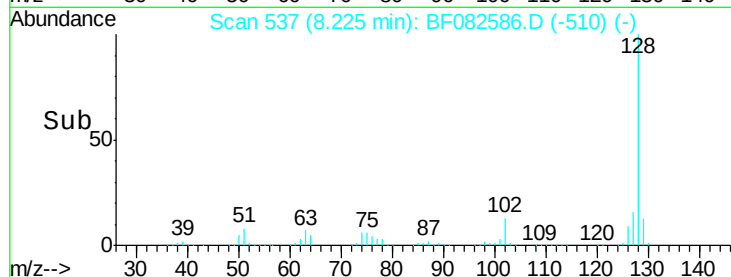
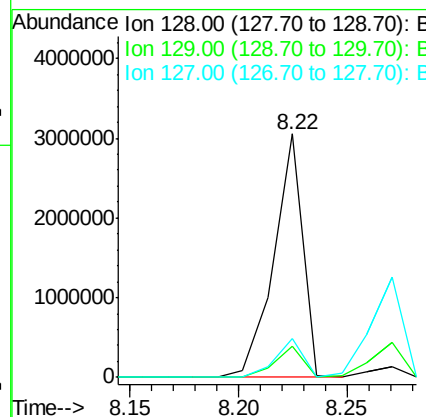
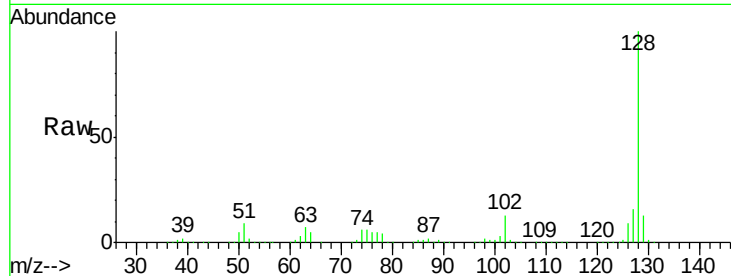
#31  
Naphthalene  
Concen: 71.35 ng  
RT: 8.22 min Scan# 537  
Delta R.T. 0.01 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF103015

Tgt Ion:128 Resp: 2855880  
Ion Ratio Lower Upper  
128 100  
129 13.0 9.5 14.3  
127 15.7 11.4 17.0

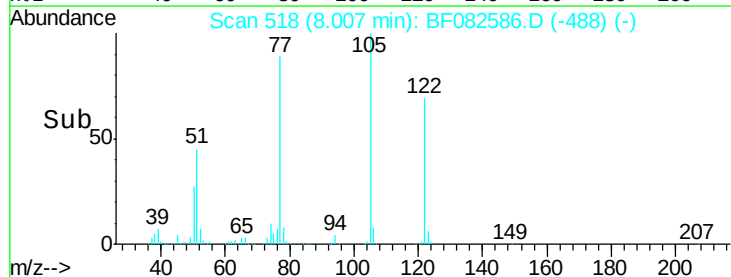
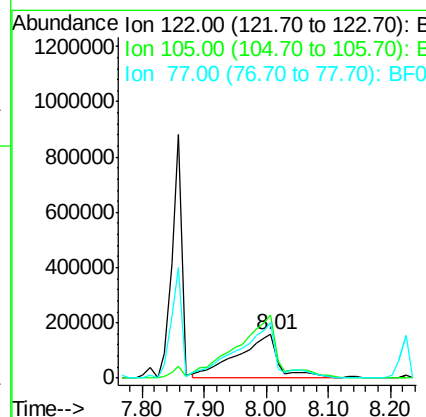
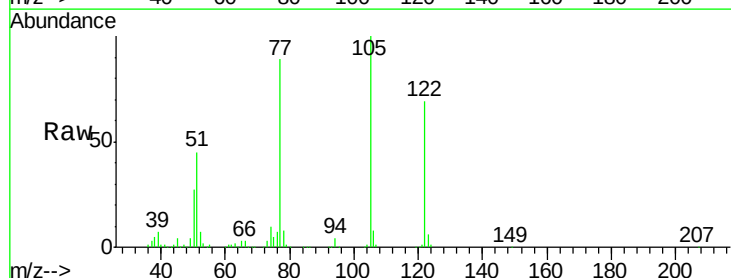
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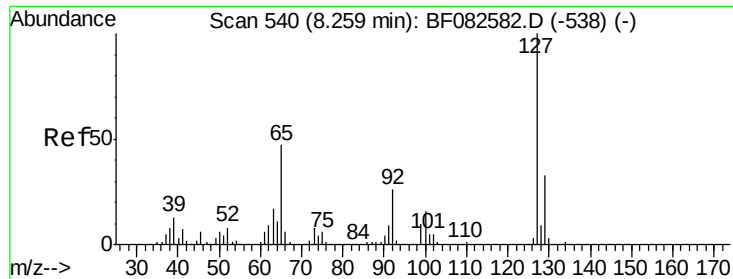
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#32  
Benzoic acid  
Concen: 76.68 ng  
RT: 8.01 min Scan# 518  
Delta R.T. 0.05 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Tgt Ion:122 Resp: 726291  
Ion Ratio Lower Upper  
122 100  
105 144.1 122.6 162.6  
77 127.7 100.9 140.9





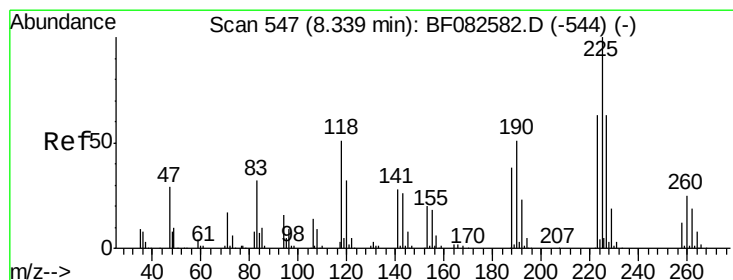
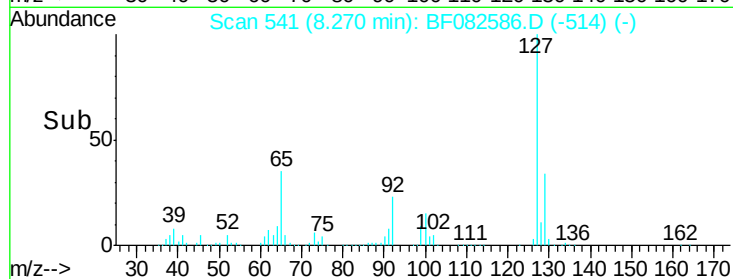
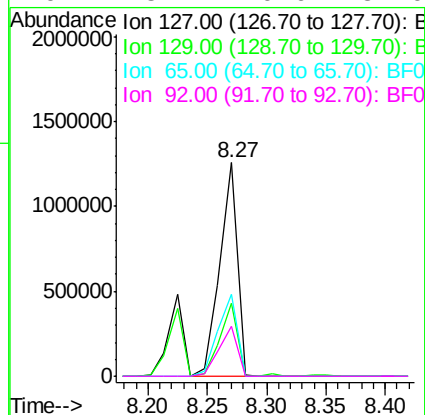
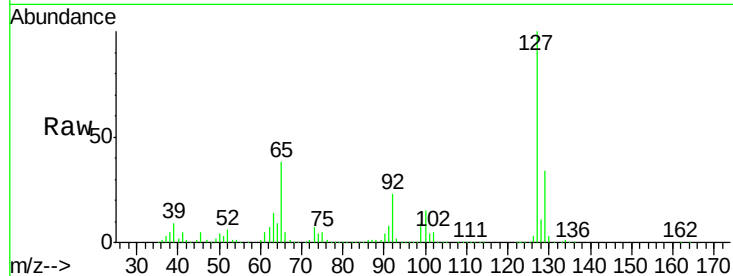
#33  
4-Chloroaniline  
Concen: 74.81 ng  
RT: 8.27 min Scan# 541  
Delta R.T. 0.01 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF103015

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 34.5  | 26.3  | 39.5  |
| 65      | 38.1  | 37.8  | 56.8  |
| 92      | 23.4  | 20.6  | 31.0  |

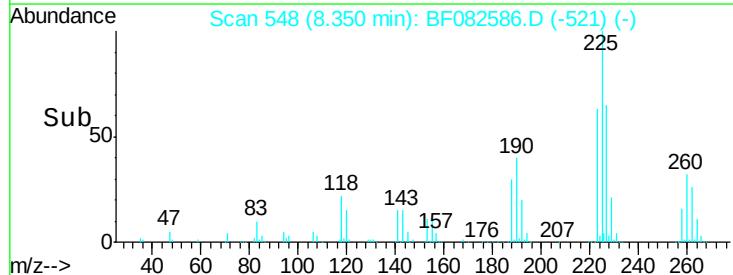
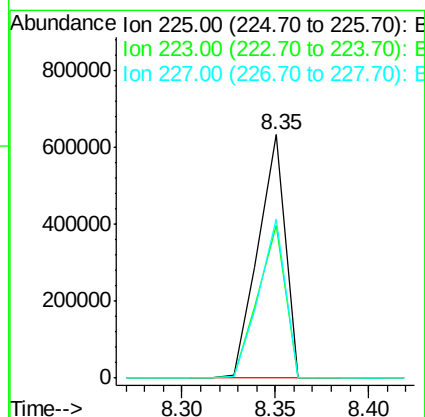
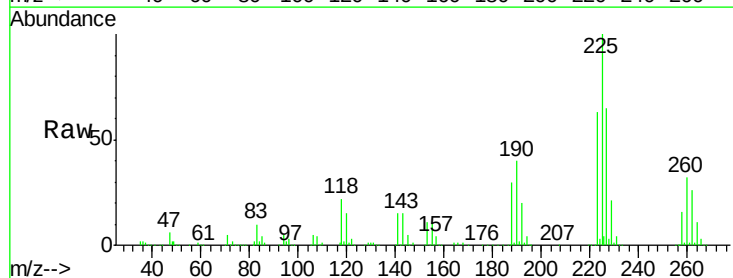
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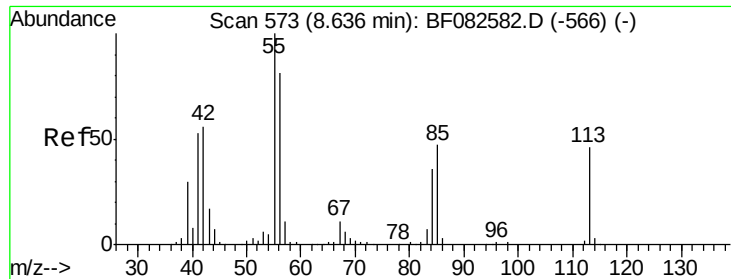
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#34  
Hexachlorobutadiene  
Concen: 75.90 ng  
RT: 8.35 min Scan# 548  
Delta R.T. 0.01 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.8  | 50.5  | 75.7  |
| 227     | 65.1  | 50.2  | 75.2  |





#35

Caprolactam

Concen: 68.74 ng

RT: 8.67 min Scan# 576

Delta R.T. 0.03 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

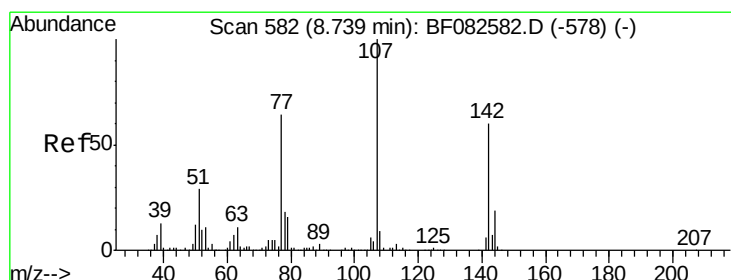
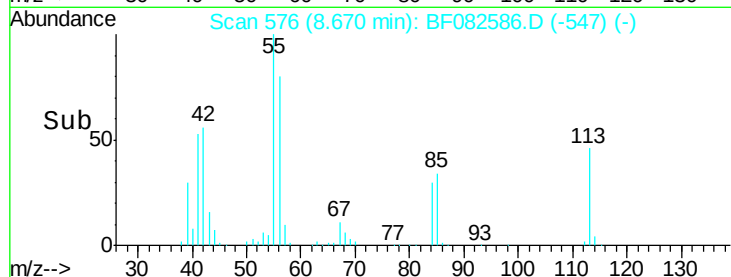
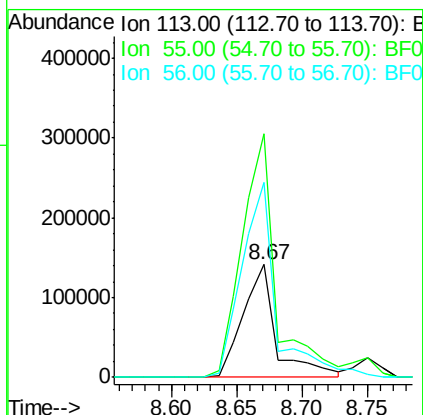
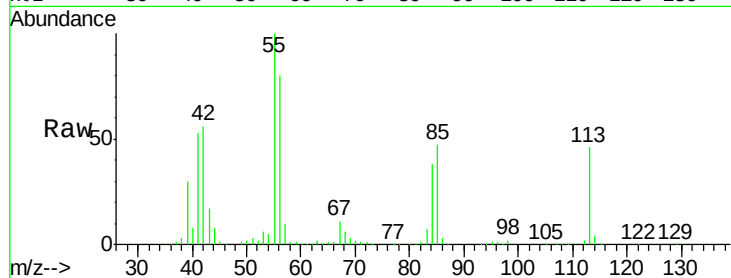
ClientSampleId :

ICVBF103015

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 250967 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 55        | 216.6 | 195.5 | 235.5  |
| 56        | 173.3 | 153.5 | 193.5  |

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#36

4-Chloro-3-methylphenol

Concen: 65.94 ng

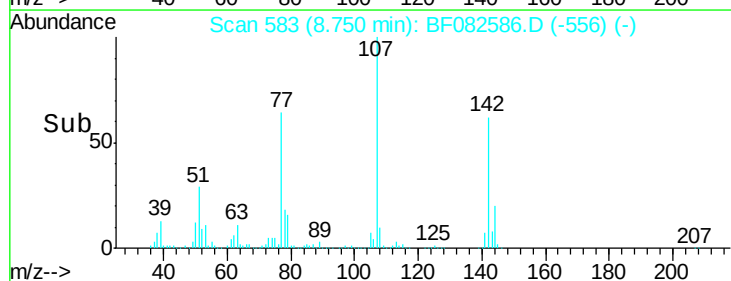
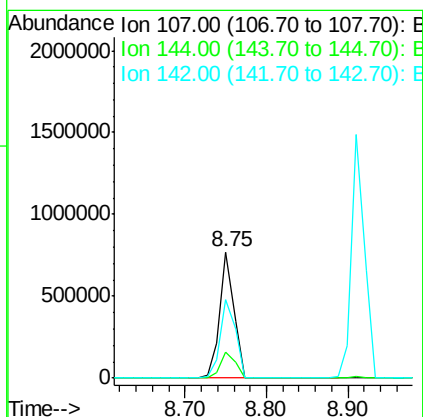
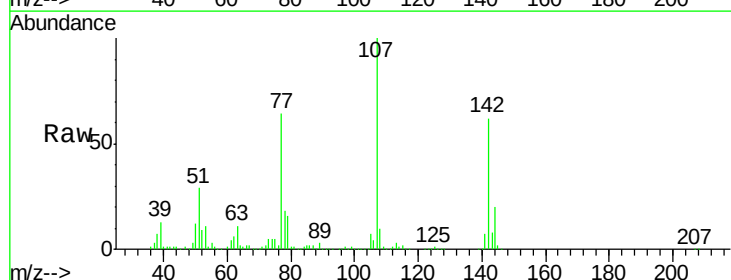
RT: 8.75 min Scan# 583

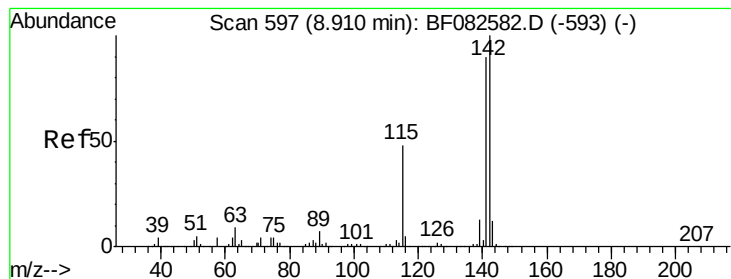
Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 924017 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 144       | 20.3  | 15.4  | 23.0   |
| 142       | 62.0  | 47.8  | 71.8   |





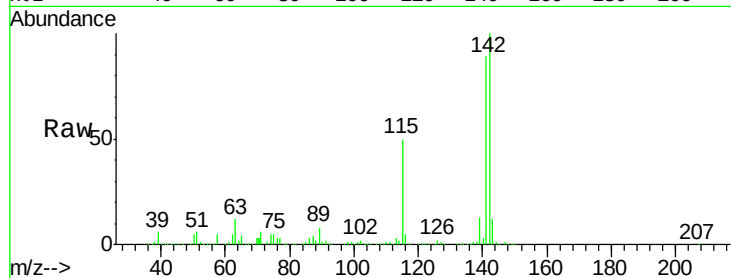
#37  
 2-Methylnaphthalene  
 Concen: 62.39 ng  
 RT: 8.91 min Scan# 597  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015

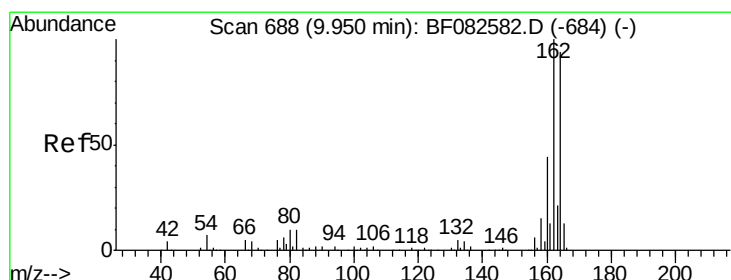
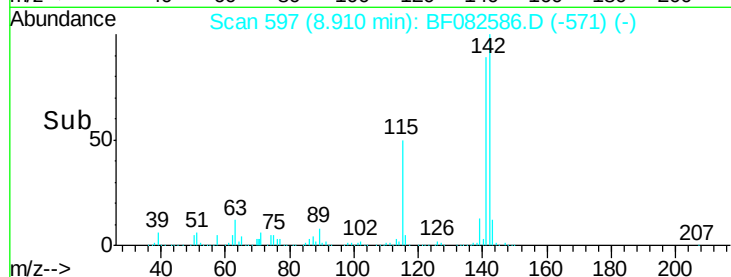
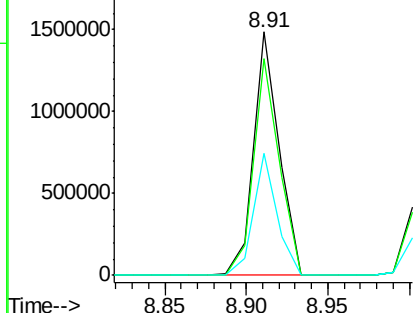
Tgt Ion:142 Resp: 1618248  
 Ion Ratio Lower Upper  
 142 100  
 141 88.8 72.3 108.5  
 115 50.0 38.1 57.1

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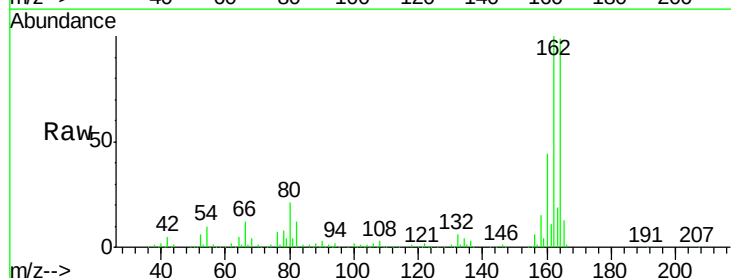


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

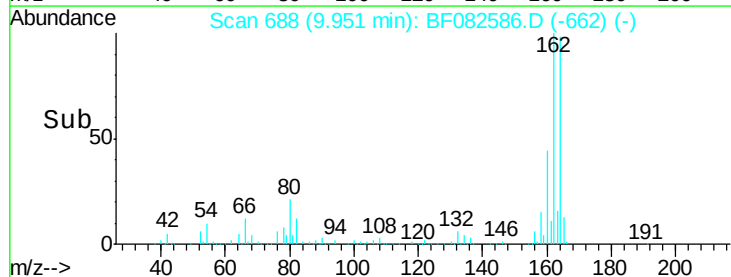
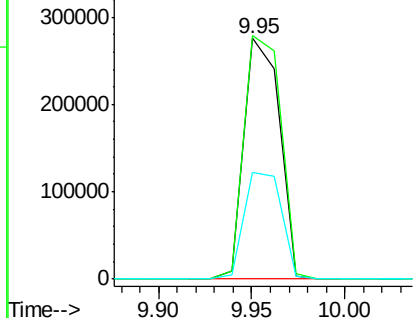


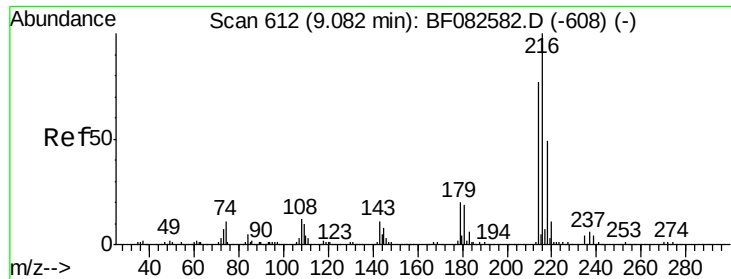
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.95 min Scan# 688  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Tgt Ion:164 Resp: 362724  
 Ion Ratio Lower Upper  
 164 100  
 162 101.2 84.9 127.3  
 160 44.6 37.5 56.3



Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E





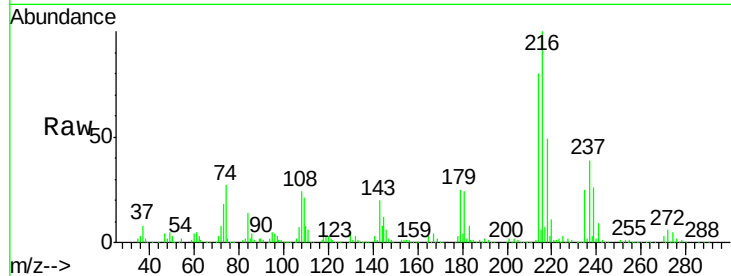
#39  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 69.37 ng  
 RT: 9.08 min Scan# 612  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015

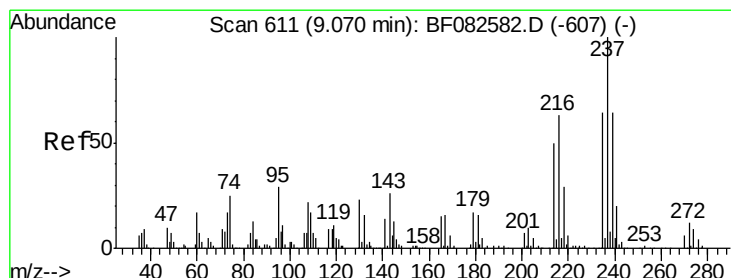
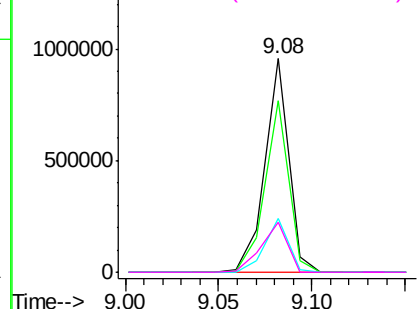
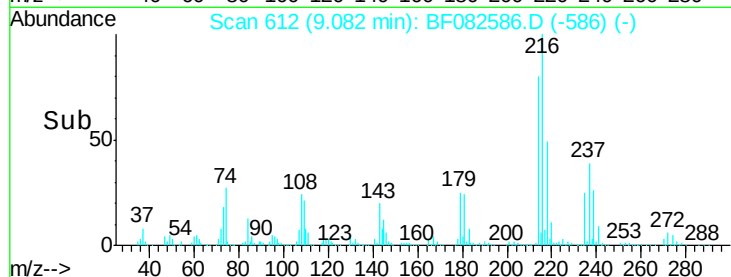
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 216     | 100   | 839645 |       |       |
| 214     | 80.0  | 62.2   | 93.2  |       |
| 179     | 24.9  | 18.1   | 27.1  |       |
| 108     | 26.0  | 16.6   | 25.0  | #     |

Manual Integrations  
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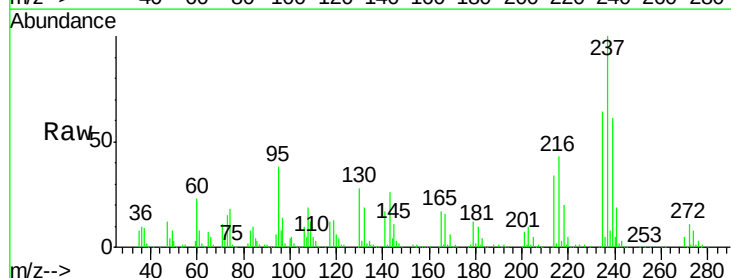


Abundance Ion 216.00 (215.70 to 216.70): E  
 Ion 214.00 (213.70 to 214.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 108.00 (107.70 to 108.70): E

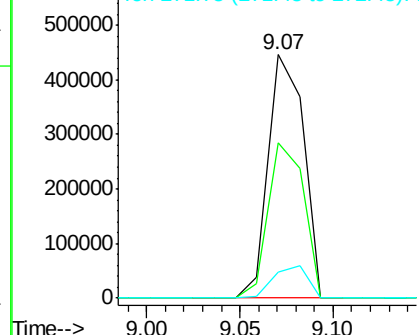
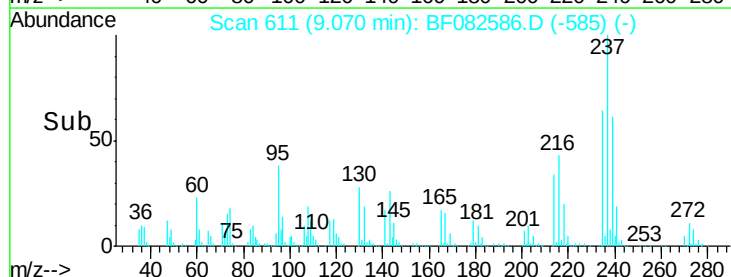


#40  
 Hexachlorocyclopentadiene  
 Concen: 76.98 ng  
 RT: 9.07 min Scan# 611  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

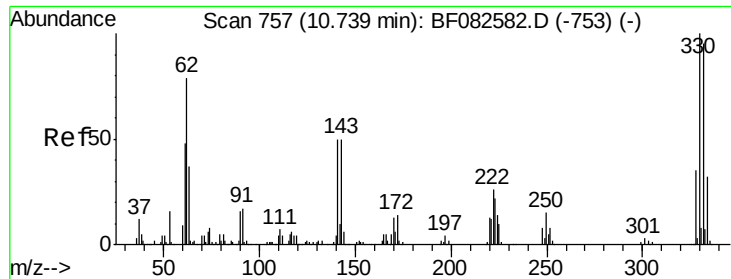
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 237     | 100   | 585730 |       |       |
| 235     | 63.6  | 44.3   | 84.3  |       |
| 272     | 10.6  | 0.0    | 31.9  |       |



Abundance Ion 236.80 (236.50 to 237.50): E  
 Ion 234.90 (234.60 to 235.60): E  
 Ion 271.75 (271.45 to 272.45): E







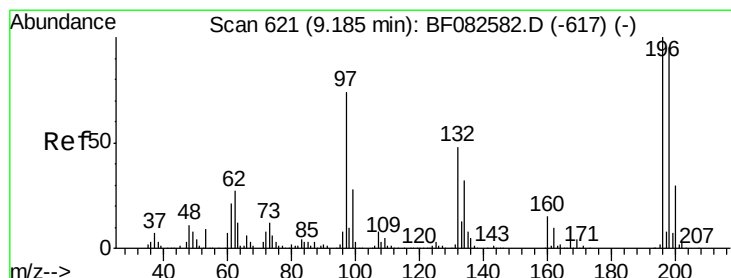
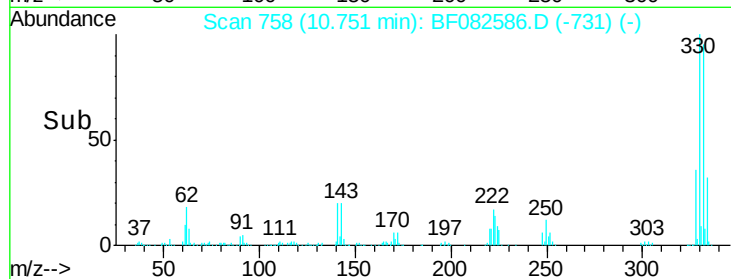
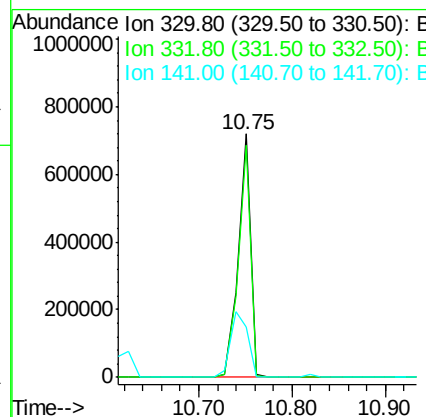
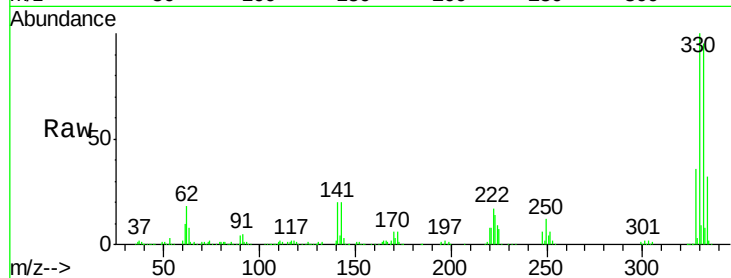
#41  
 2,4,6-Tribromophenol  
 Concen: 172.08 ng  
 RT: 10.75 min Scan# 758  
 Delta R.T. 0.01 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 683086 |       |       |
| 332     | 94.8  | 76.6   | 114.8 |       |
| 141     | 36.6  | 41.2   | 61.8# |       |

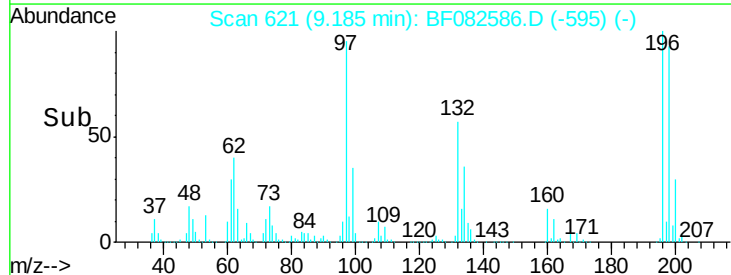
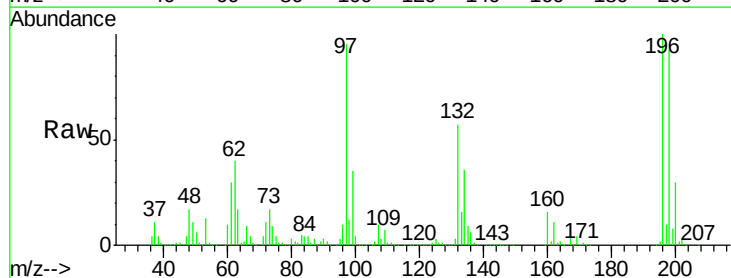
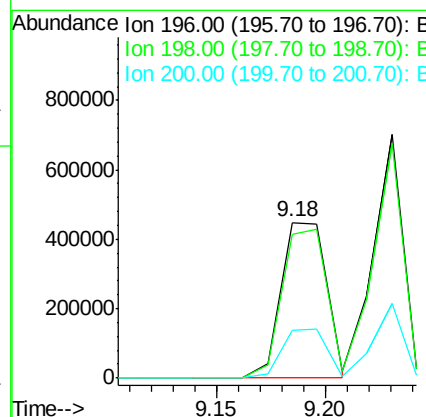
Manual Integrations  
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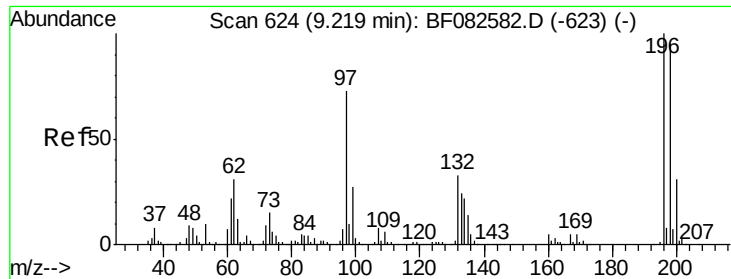
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#42  
 2,4,6-Trichlorophenol  
 Concen: 74.87 ng  
 RT: 9.18 min Scan# 621  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

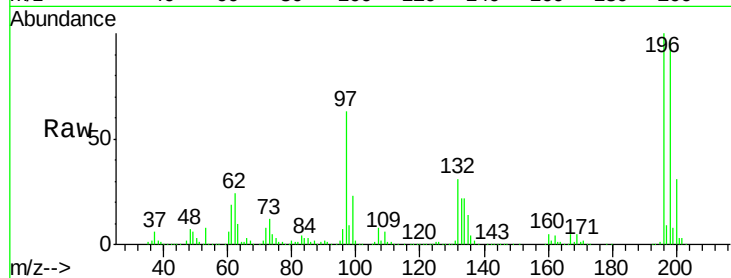
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 654336 |       |       |
| 198     | 92.7  | 76.3   | 114.5 |       |
| 200     | 30.4  | 23.9   | 35.9  |       |





#43  
 2,4,5-Trichlorophenol  
 Concen: 76.77 ng  
 RT: 9.23 min Scan# 625  
 Delta R.T. 0.01 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

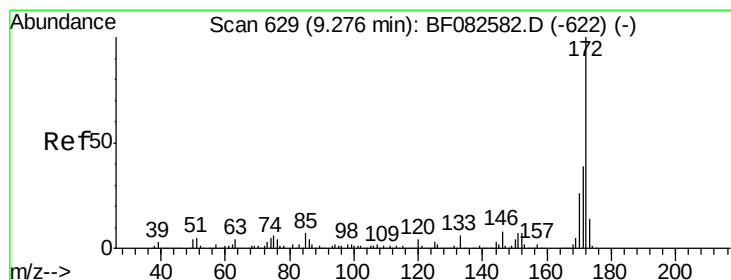
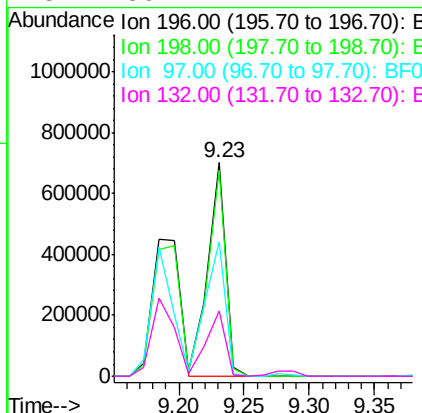
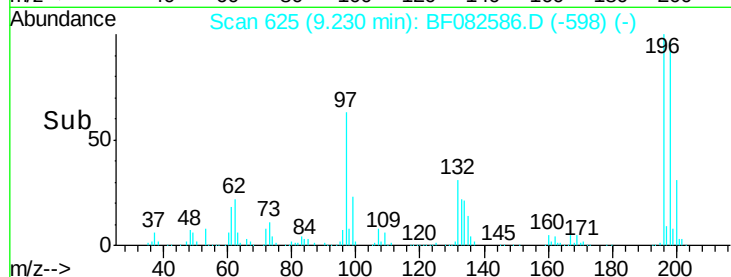
Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 668551 |       |       |
| 198     | 96.6  | 75.8   | 113.8 |       |
| 97      | 63.2  | 62.3   | 93.5  |       |
| 132     | 30.7  | 27.4   | 41.2  |       |

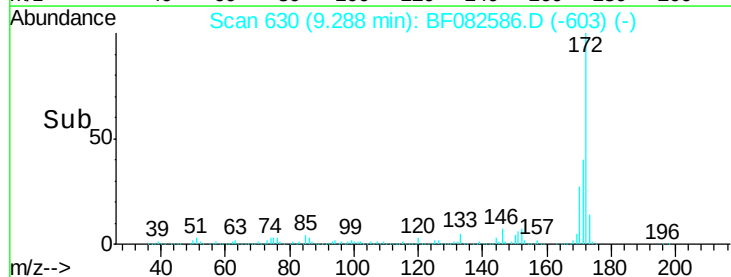
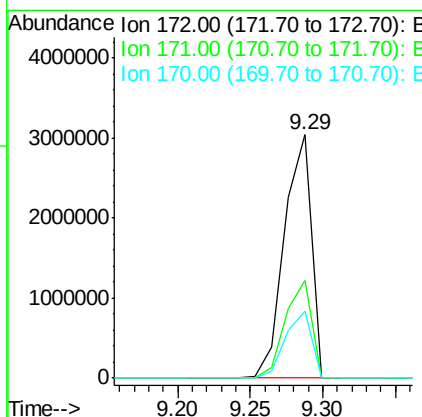
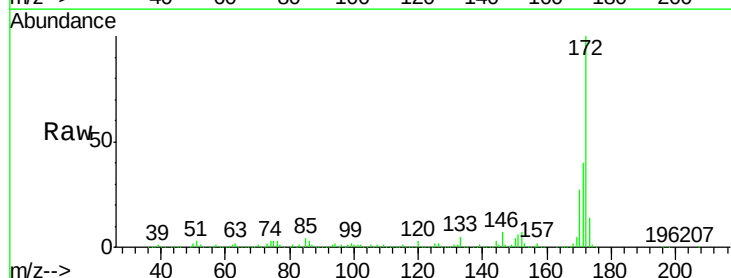
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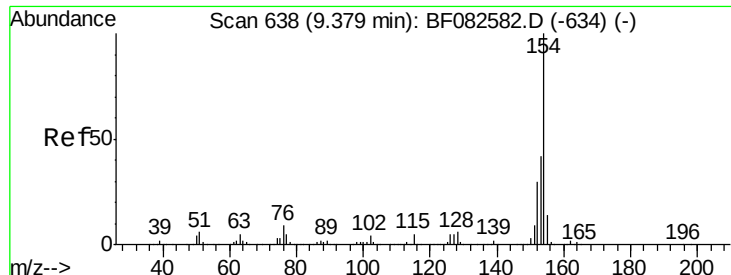
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#44  
 2-Fluorobiphenyl  
 Concen: 153.71 ng  
 RT: 9.29 min Scan# 630  
 Delta R.T. 0.01 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 3926884 |       |       |
| 171     | 39.9  | 30.8    | 46.2  |       |
| 170     | 27.4  | 21.2    | 31.8  |       |





#45

1,1'-Biphenyl

Concen: 62.83 ng

RT: 9.38 min Scan# 638

Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015

Tgt Ion:154 Resp: 1925015

Ion Ratio Lower Upper

154 100

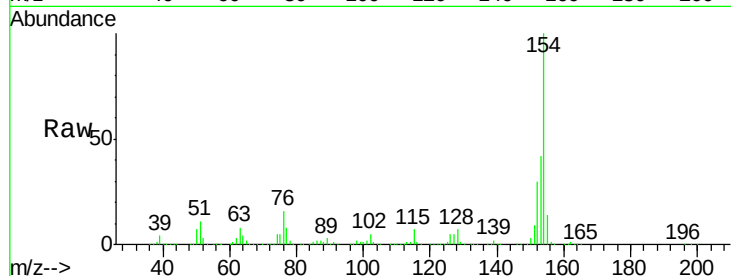
153 42.1 22.0 62.0

76 15.8 0.0 29.0

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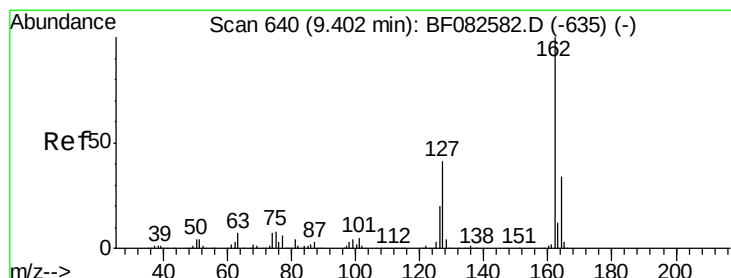
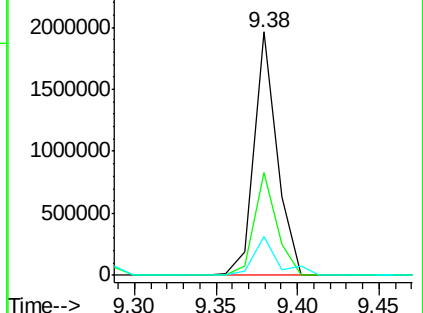
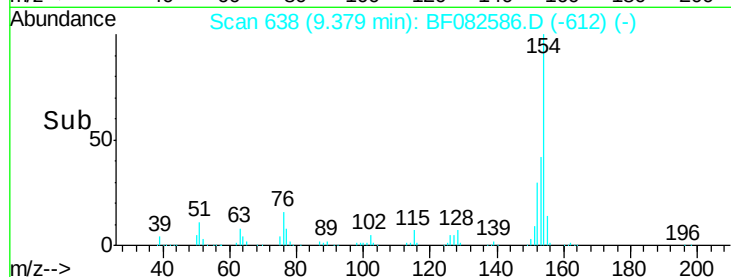
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#46

2-Chloronaphthalene

Concen: 67.51 ng

RT: 9.40 min Scan# 640

Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

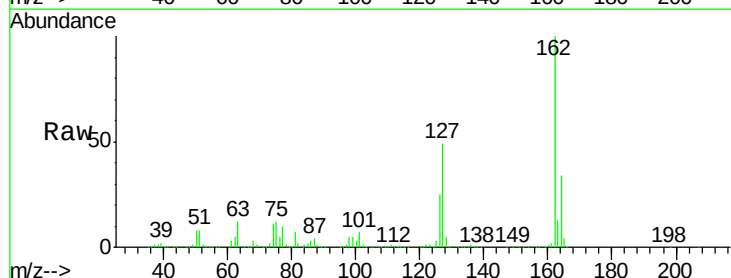
Tgt Ion:162 Resp: 1615205

Ion Ratio Lower Upper

162 100

127 48.7 32.7 49.1

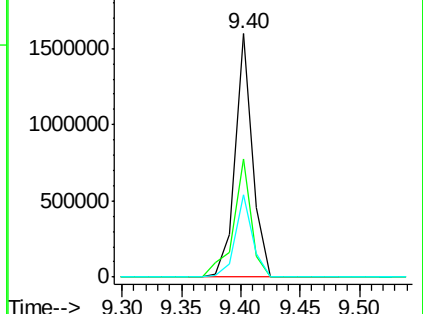
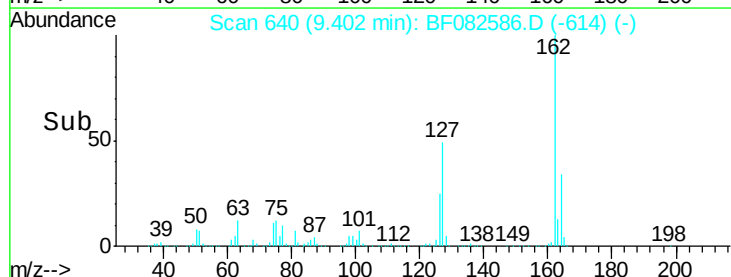
164 33.9 27.4 41.0

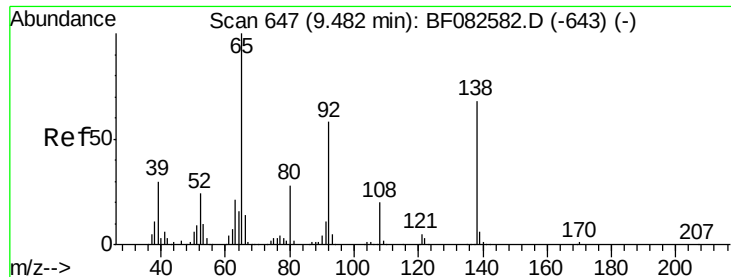


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E





#47

2-Nitroaniline

Concen: 76.11 ng

RT: 9.49 min Scan# 648

Delta R.T. 0.01 min

Lab File: BF082586.D

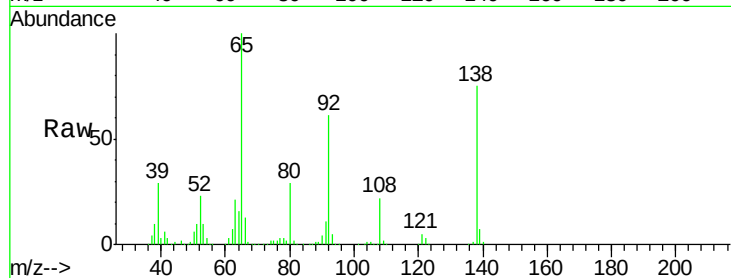
Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015



Tgt Ion: 65 Resp: 707807

Ion Ratio Lower Upper

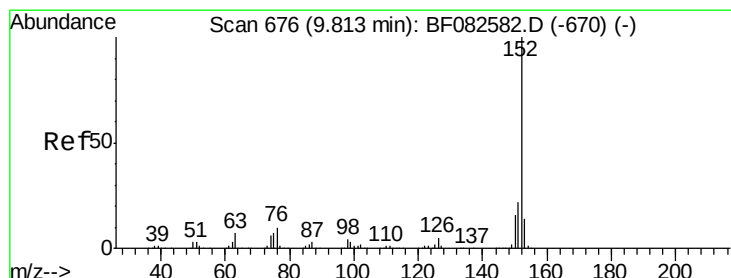
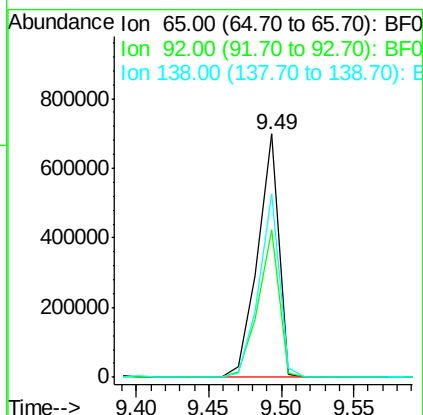
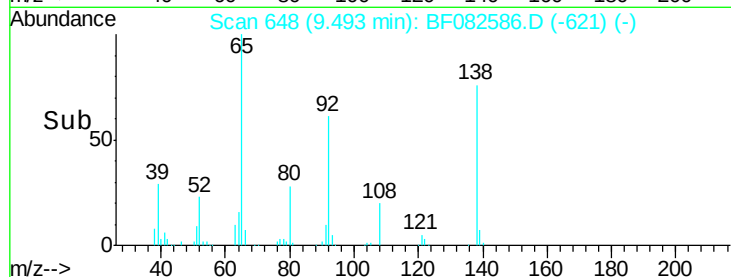
65 100

92 60.5 46.6 70.0

138 75.3 54.6 81.8

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#48

Acenaphthylene

Concen: 75.59 ng

RT: 9.82 min Scan# 677

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

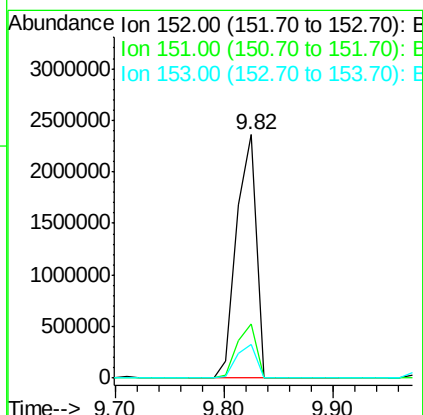
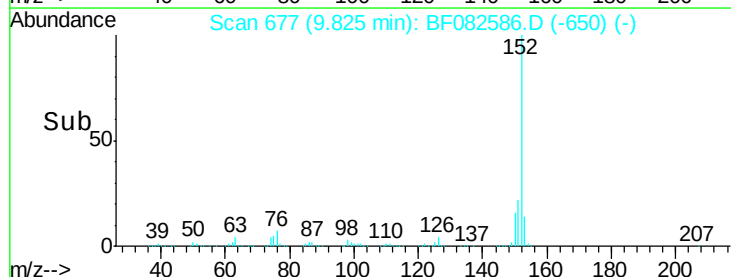
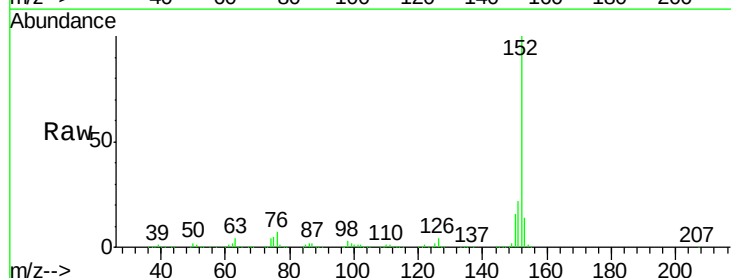
Tgt Ion: 152 Resp: 2892649

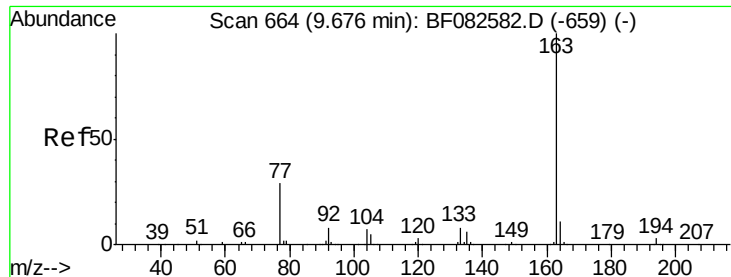
Ion Ratio Lower Upper

152 100

151 22.3 17.3 25.9

153 13.9 11.3 16.9





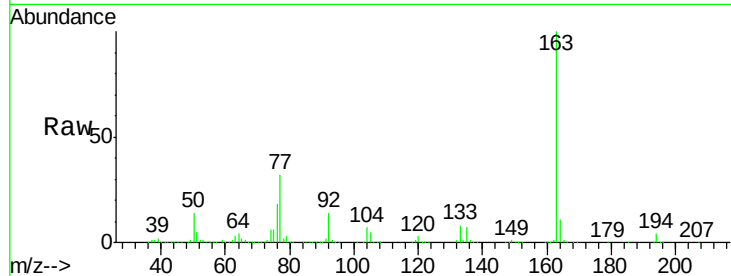
#49  
Dimethylphthalate  
Concen: 62.25 ng  
RT: 9.69 min Scan# 665  
Delta R.T. 0.01 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF103015

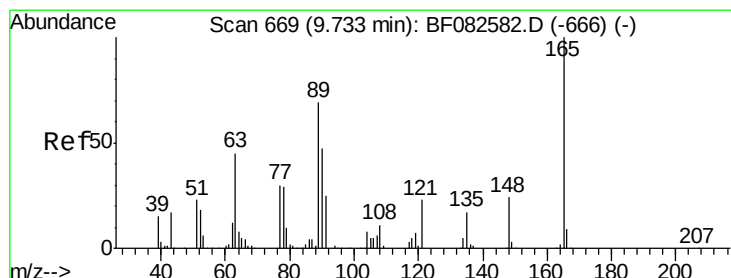
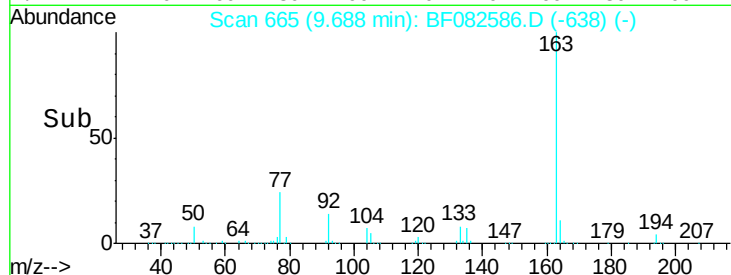
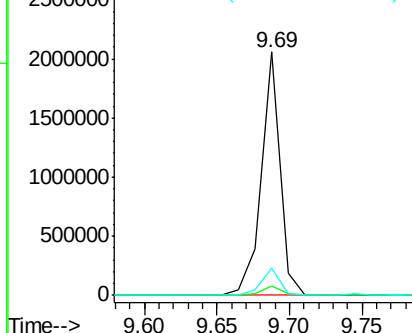
Tgt Ion:163 Resp: 1844153  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.6 4.0  
164 11.2 8.7 13.1

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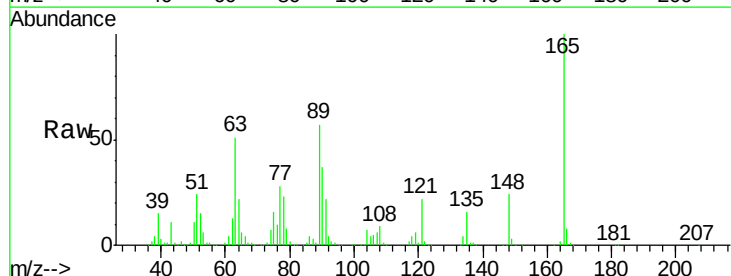


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

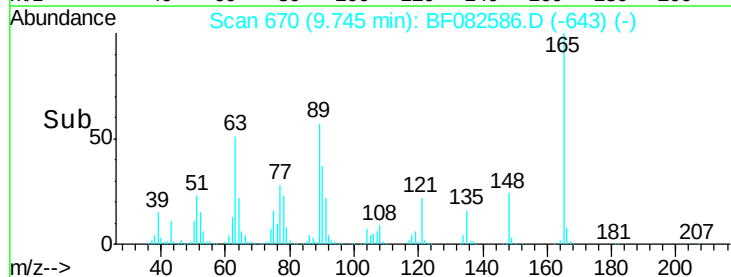
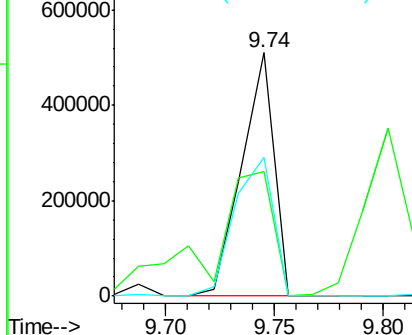


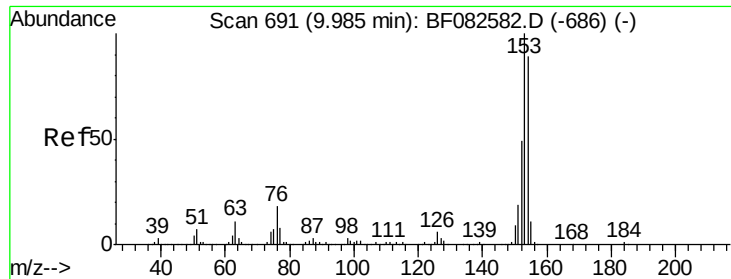
#50  
2,6-Dinitrotoluene  
Concen: 85.39 ng  
RT: 9.74 min Scan# 670  
Delta R.T. 0.01 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Tgt Ion:165 Resp: 524300  
Ion Ratio Lower Upper  
165 100  
63 50.9 55.5 83.3#  
89 57.1 55.0 82.6



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: 79.36 ng

RT: 10.00 min Scan# 692

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015

Tgt Ion:154 Resp: 1927868

Ion Ratio Lower Upper

154 100

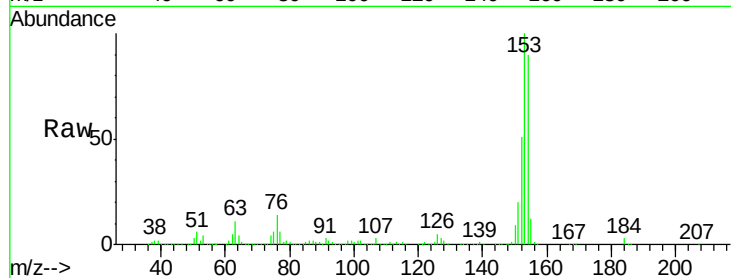
153 110.8 90.1 135.1

152 56.5 44.3 66.5

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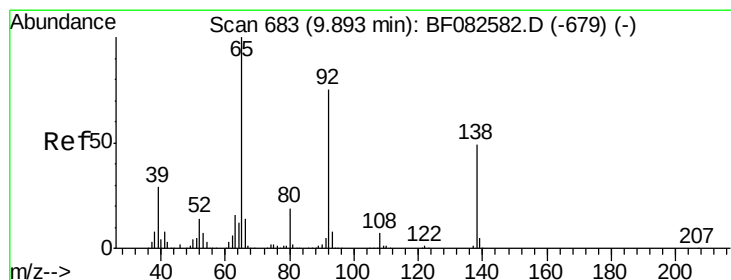
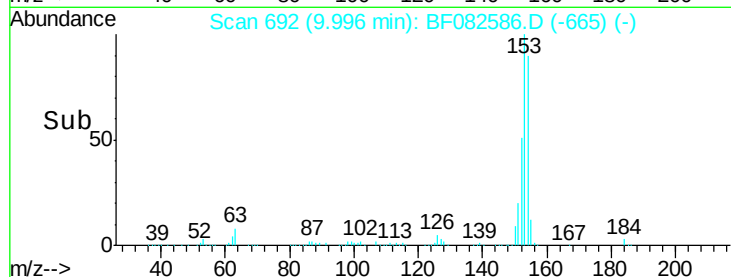
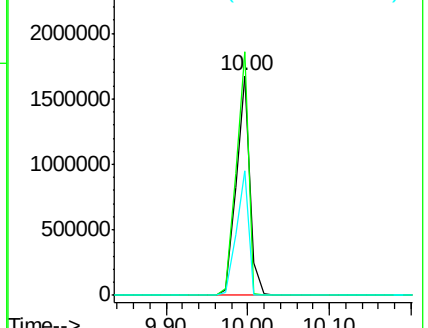
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 74.88 ng

RT: 9.90 min Scan# 684

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

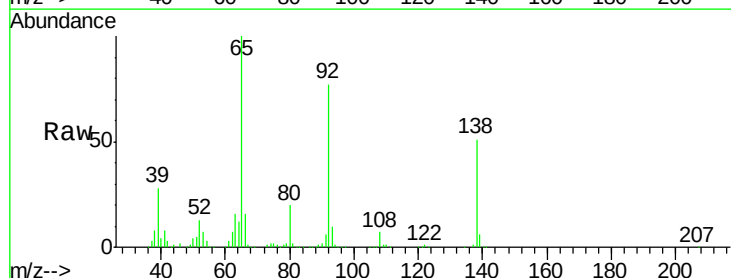
Tgt Ion:138 Resp: 511543

Ion Ratio Lower Upper

138 100

108 13.4 11.3 16.9

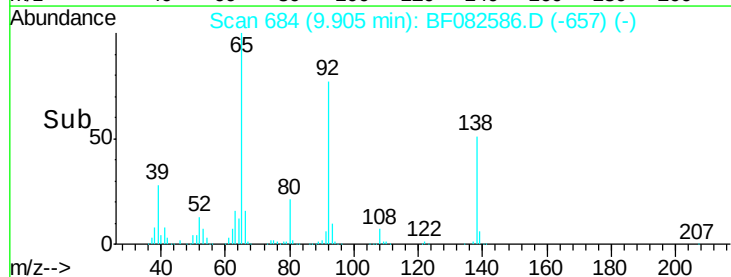
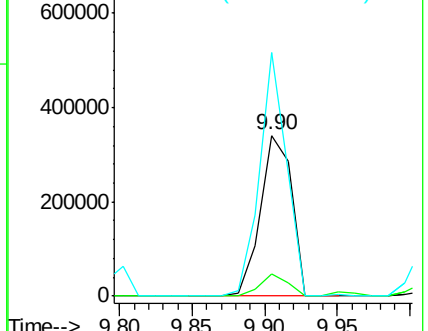
92 151.3 122.4 183.6

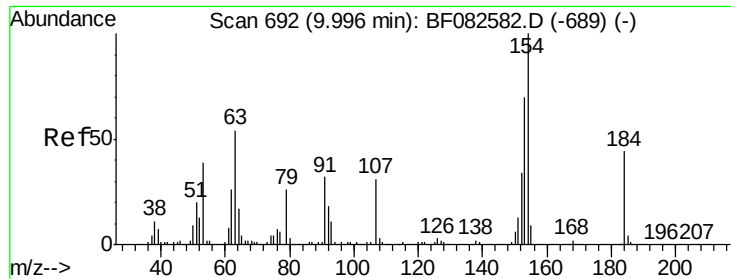


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

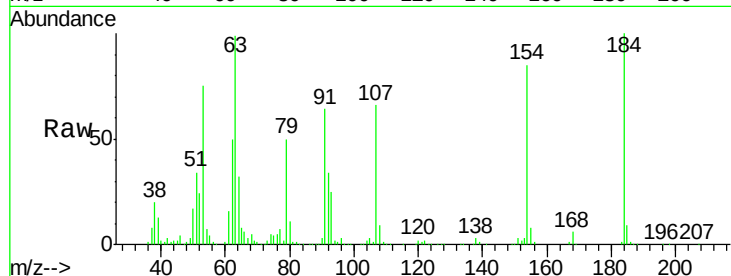
Ion 92.00 (91.70 to 92.70): BF0





#53  
2,4-Dinitrophenol  
Concen: 75.98 ng  
RT: 10.01 min Scan# 693  
Delta R.T. 0.01 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

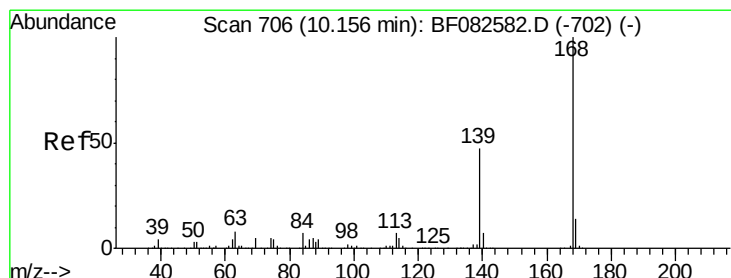
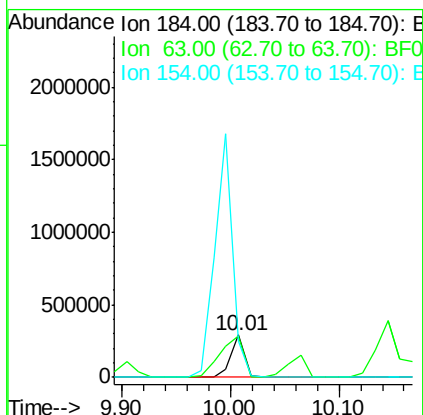
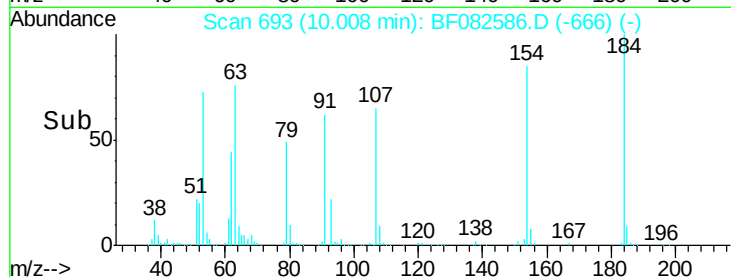
Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF103015



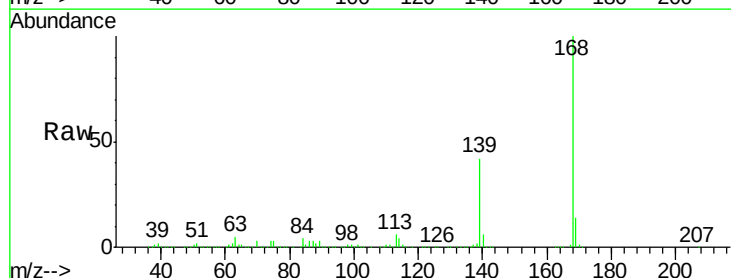
| Tgt Ion | Ratio | Resp   | Lower  | Upper |
|---------|-------|--------|--------|-------|
| 184     | 100   | 247332 |        |       |
| 63      | 99.2  | 98.6   | 148.0  |       |
| 154     | 85.3  | 183.9  | 275.9# |       |

Manual Integrations  
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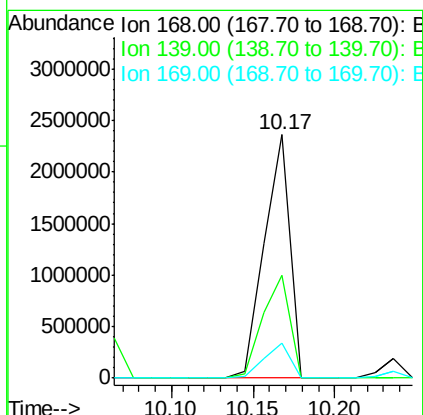
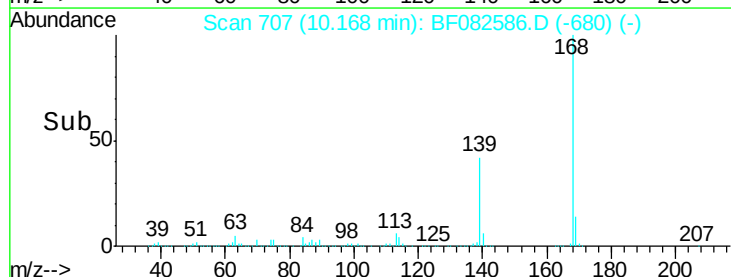
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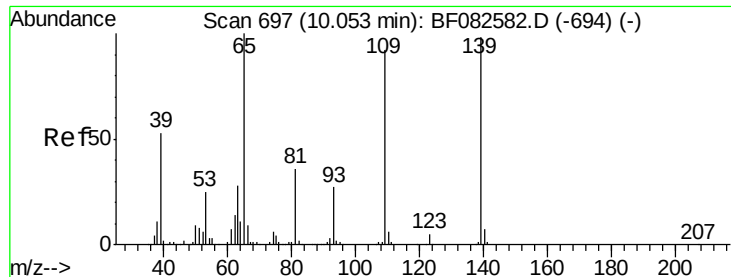


#54  
Dibenzofuran  
Concen: 77.94 ng  
RT: 10.17 min Scan# 707  
Delta R.T. 0.01 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01



| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 168     | 100   | 2569235 |       |       |
| 139     | 42.5  | 37.8    | 56.6  |       |
| 169     | 14.2  | 11.3    | 16.9  |       |





#55

4-Nitrophenol

Concen: 85.68 ng

RT: 10.06 min Scan# 698

Delta R.T. 0.01 min

Lab File: BF082586.D

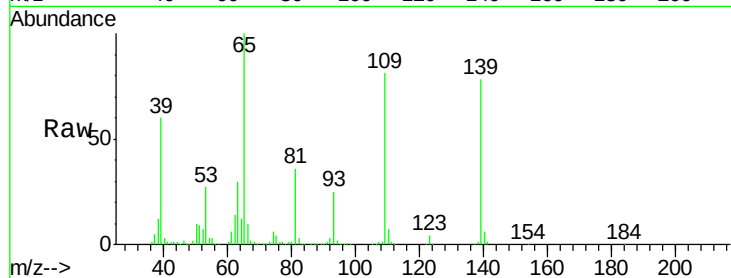
Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015



Tgt Ion:139 Resp: 440357

Ion Ratio Lower Upper

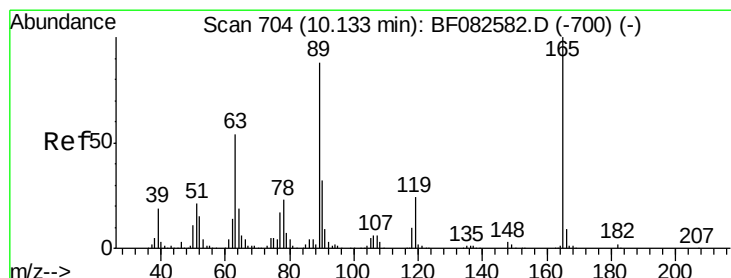
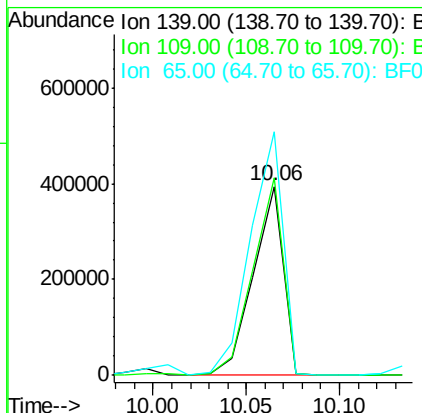
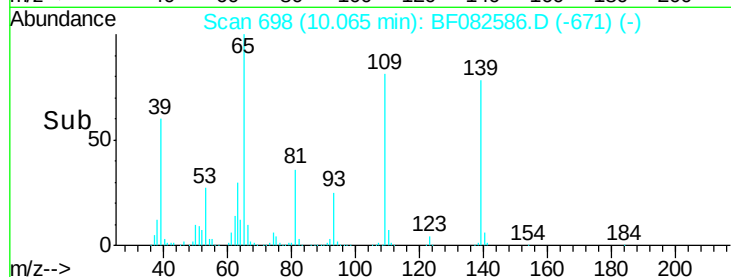
139 100

109 104.2 73.7 113.7

65 128.7 82.9 122.9#

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#56

2,4-Dinitrotoluene

Concen: 79.58 ng

RT: 10.14 min Scan# 705

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Tgt Ion:165 Resp: 660780

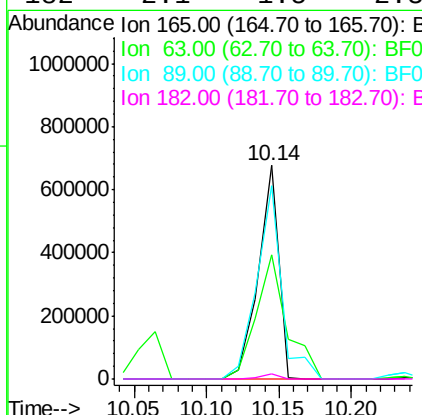
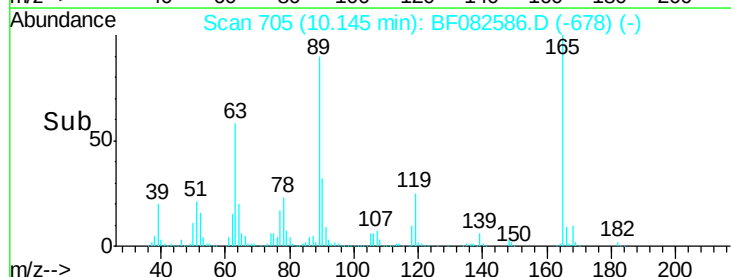
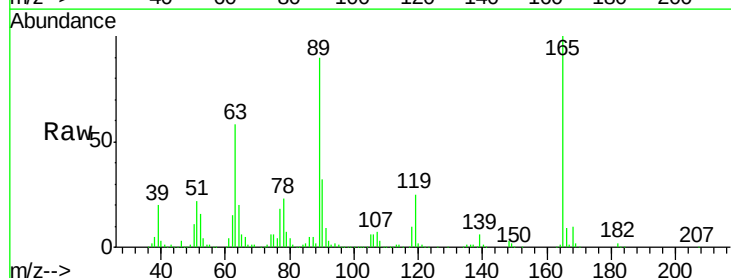
Ion Ratio Lower Upper

165 100

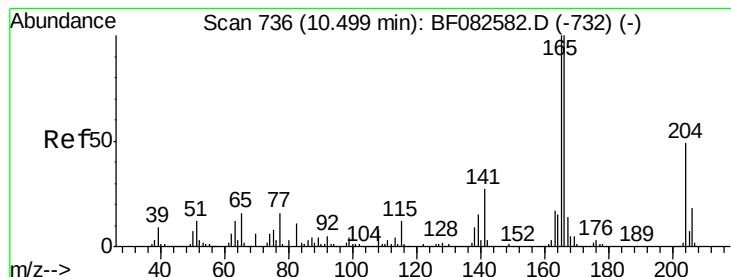
63 58.1 43.4 65.0

89 90.5 70.6 106.0

182 2.1 1.5 2.3







#57

Fluorene

Concen: 78.39 ng

RT: 10.51 min Scan# 737

Delta R.T. 0.01 min

Lab File: BF082586.D

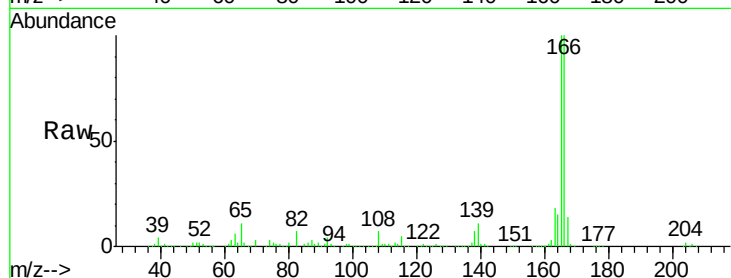
Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015



Tgt Ion:166 Resp: 2084258

Ion Ratio Lower Upper

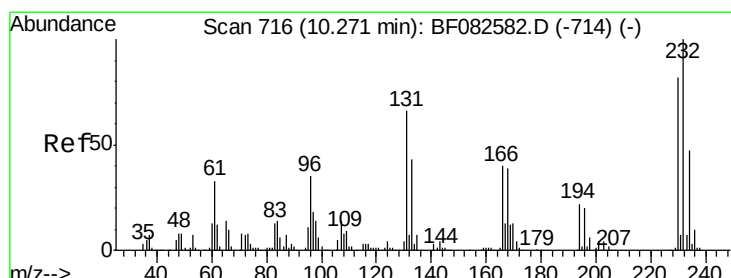
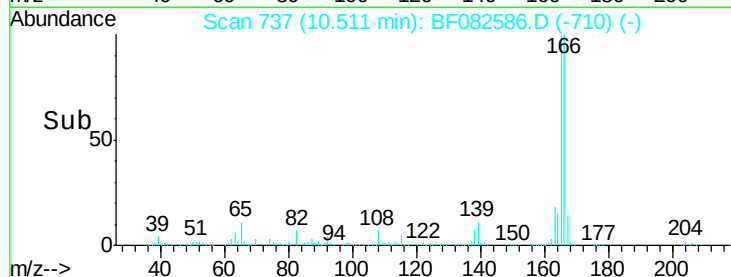
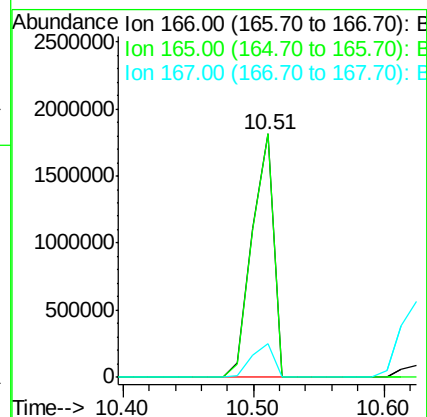
166 100

165 100.0 80.2 120.4

167 13.8 11.2 16.8

Manual Integrations  
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#58

2,3,4,6-Tetrachlorophenol

Concen: 79.20 ng

RT: 10.28 min Scan# 717

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Tgt Ion:232 Resp: 582877

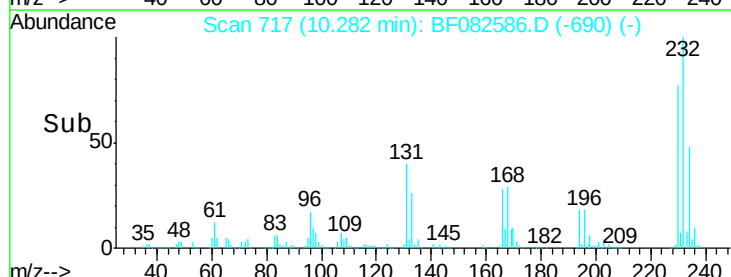
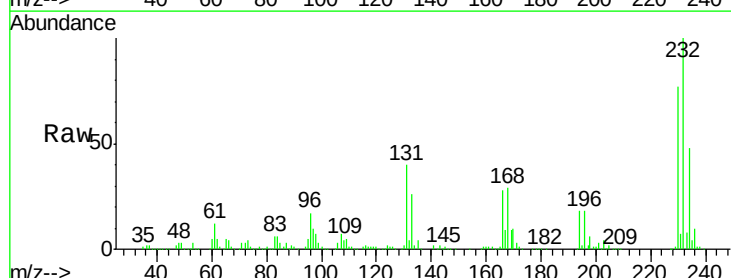
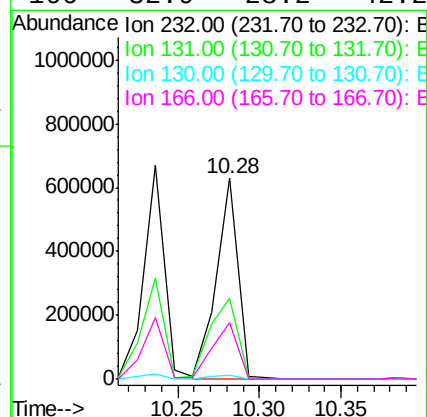
Ion Ratio Lower Upper

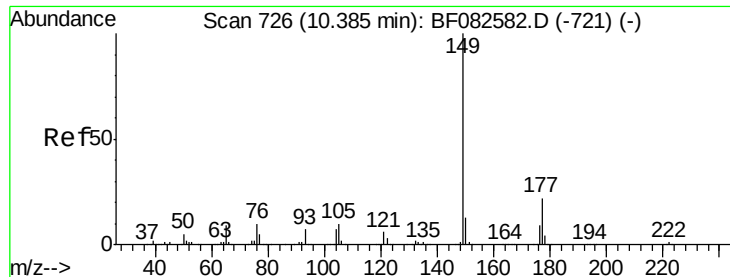
232 100

131 50.2 46.2 69.2

130 2.6 2.4 3.6

166 32.9 28.2 42.2





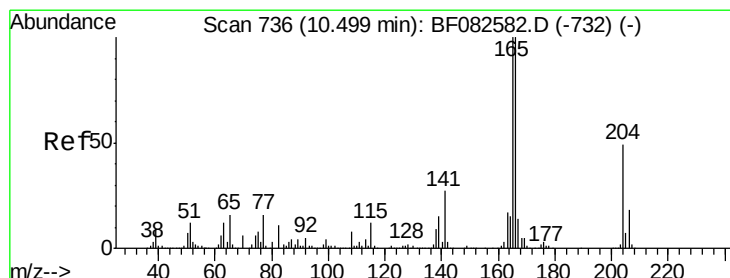
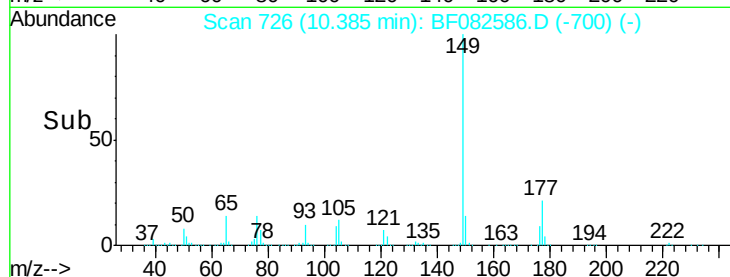
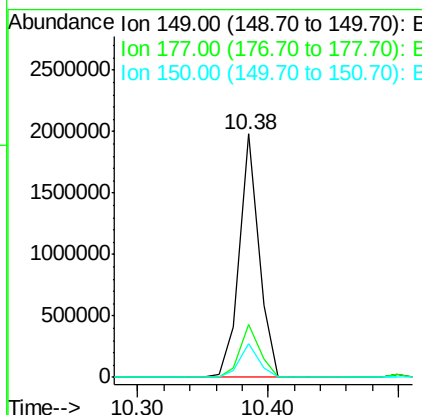
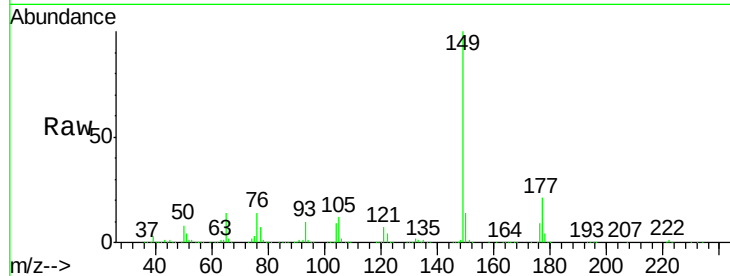
#59  
Diethylphthalate  
Concen: 68.28 ng  
RT: 10.38 min Scan# 726  
Delta R.T. 0.00 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF103015

Tgt Ion:149 Resp: 2059197  
Ion Ratio Lower Upper  
149 100  
177 21.5 17.9 26.9  
150 13.9 10.1 15.1

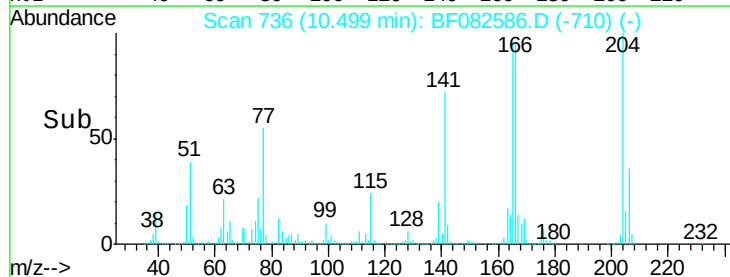
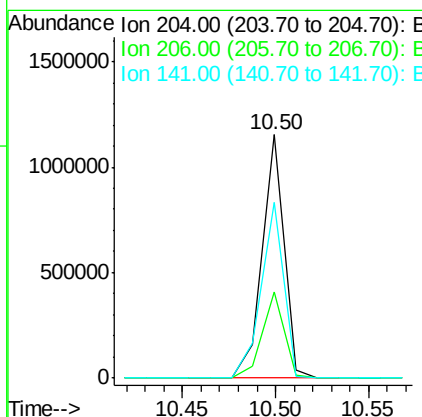
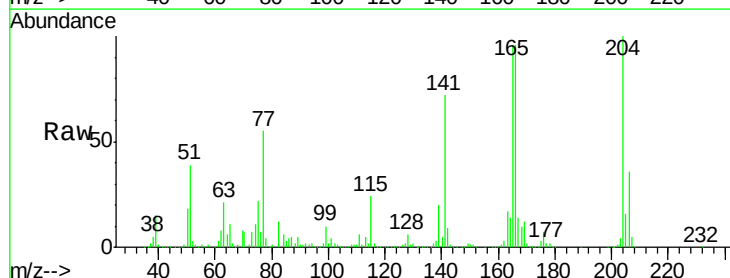
Manual Integrations  
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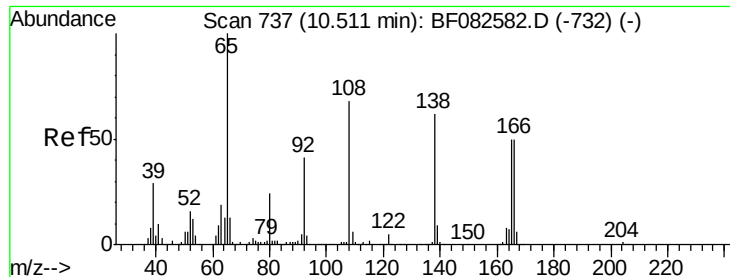
Mmdadoda  
11/2/2015 4:32:04 PM



#60  
4-Chlorophenyl-phenylether  
Concen: 71.78 ng  
RT: 10.50 min Scan# 736  
Delta R.T. 0.00 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Tgt Ion:204 Resp: 927672  
Ion Ratio Lower Upper  
204 100  
206 35.5 28.5 42.7  
141 72.3 44.6 66.8#





#61

4-Nitroaniline

Concen: 78.77 ng

RT: 10.53 min Scan# 739

Delta R.T. 0.02 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

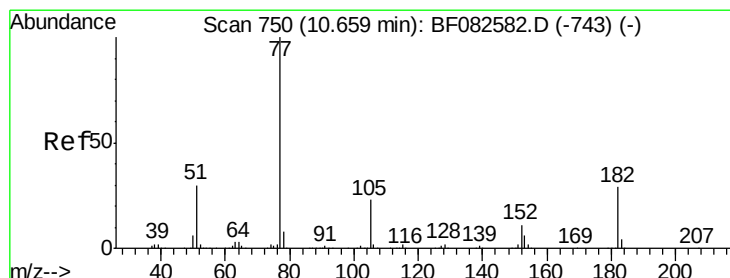
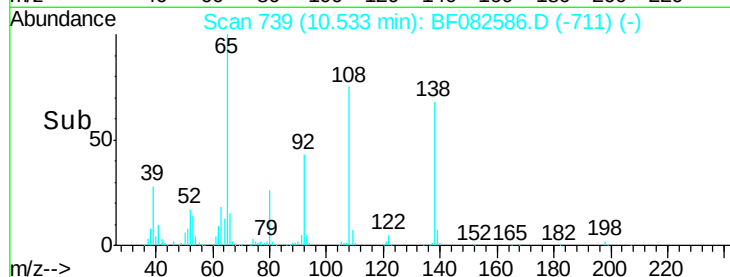
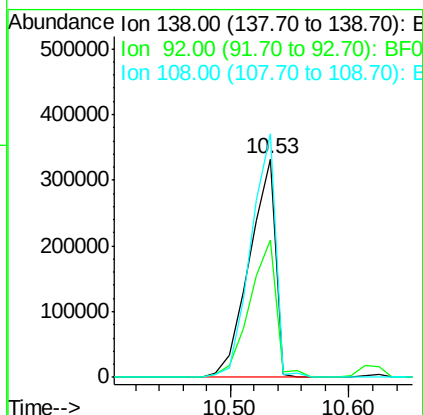
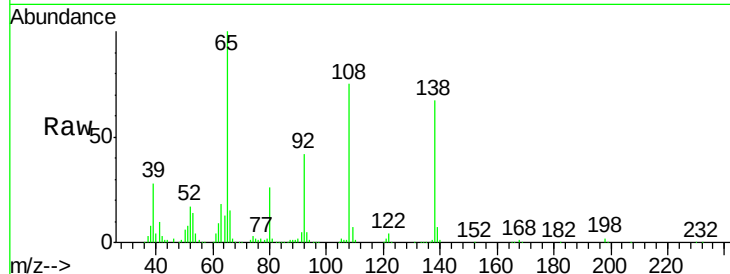
ClientSampleId :

ICVBF103015

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 513468 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 92        | 62.9  | 45.8  | 85.8   |
| 108       | 111.5 | 89.4  | 129.4  |

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#62

Azobenzene

Concen: 71.98 ng

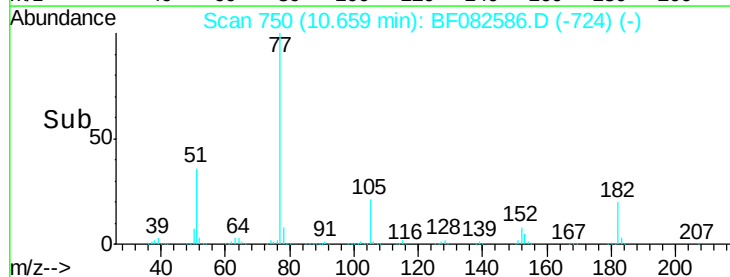
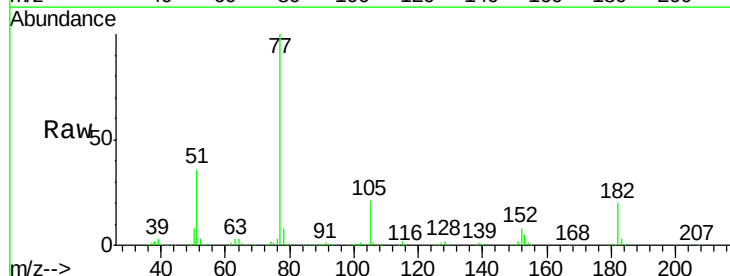
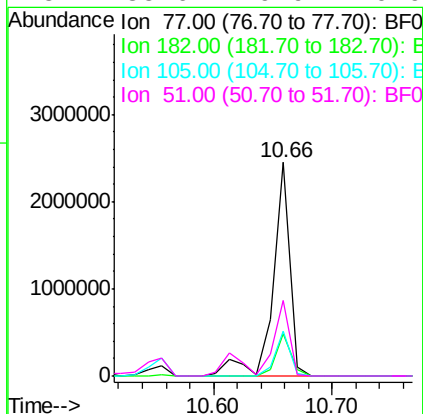
RT: 10.66 min Scan# 750

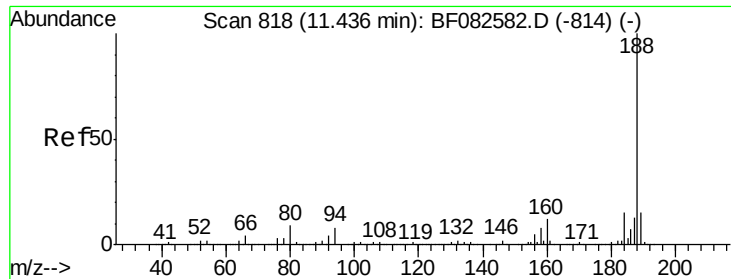
Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 77    | Resp: | 2448090 |
| Ion Ratio | Lower | Upper |         |
| 77        | 100   |       |         |
| 182       | 19.9  | 9.3   | 49.3    |
| 105       | 20.9  | 2.6   | 42.6    |
| 51        | 35.6  | 9.9   | 49.9    |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.44 min Scan# 818

Delta R.T. 0.00 min

Lab File: BF082586.D

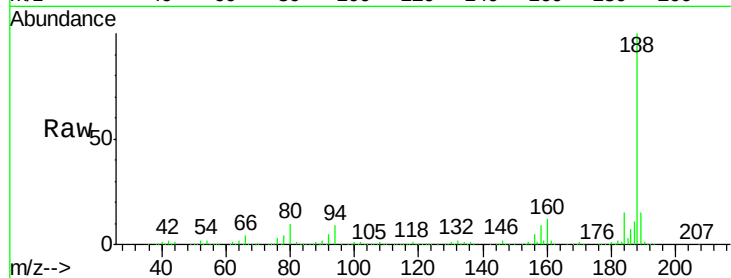
Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

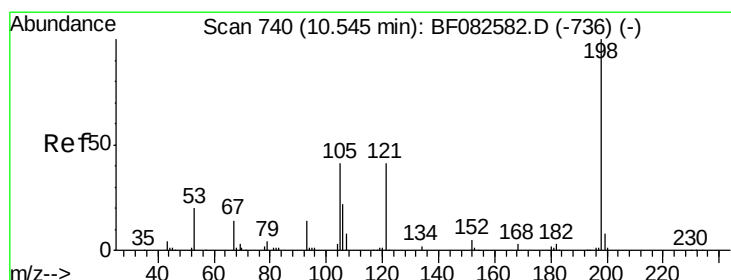
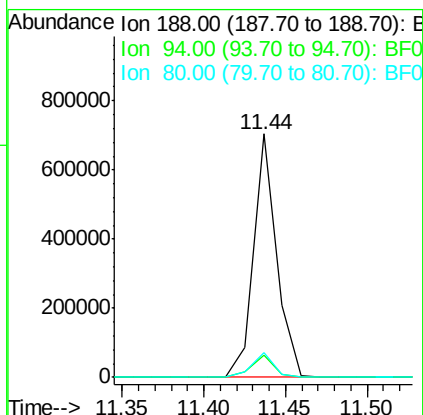
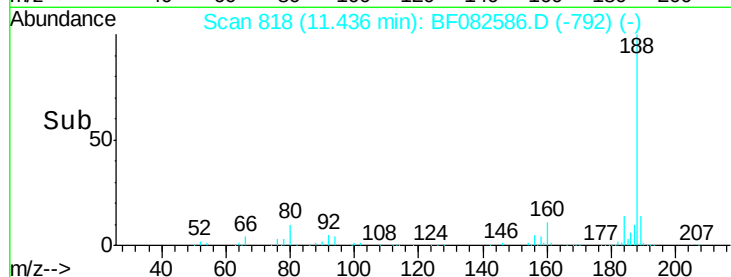
ICVBF103015



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 687263 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.0   | 6.1   | 9.1    |
| 80        | 10.4  | 7.0   | 10.6   |

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#64

4,6-Dinitro-2-methylphenol

Concen: 90.15 ng

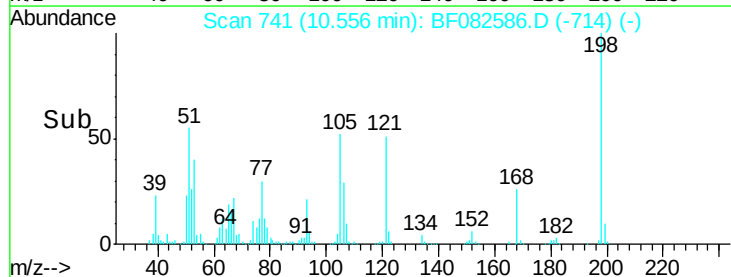
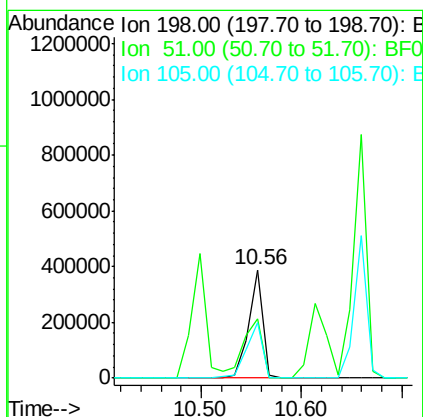
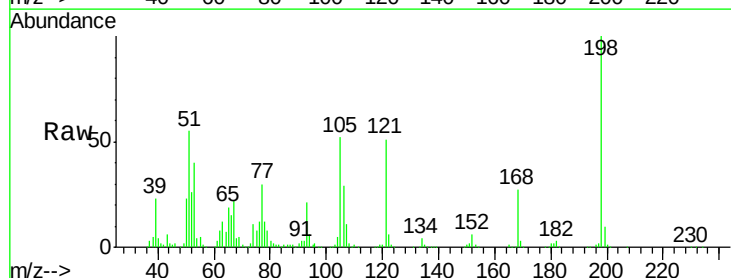
RT: 10.56 min Scan# 741

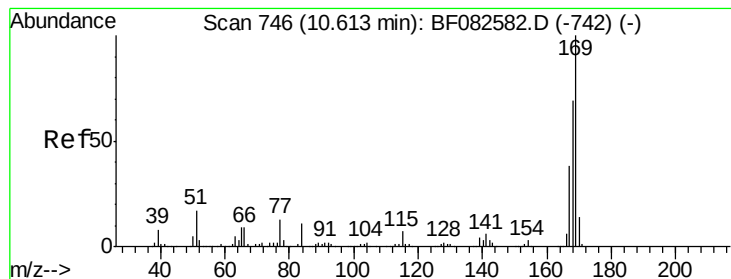
Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 198   | Resp: | 373688 |
| Ion Ratio | Lower | Upper |        |
| 198       | 100   |       |        |
| 51        | 54.6  | 17.3  | 57.3   |
| 105       | 51.8  | 21.7  | 61.7   |





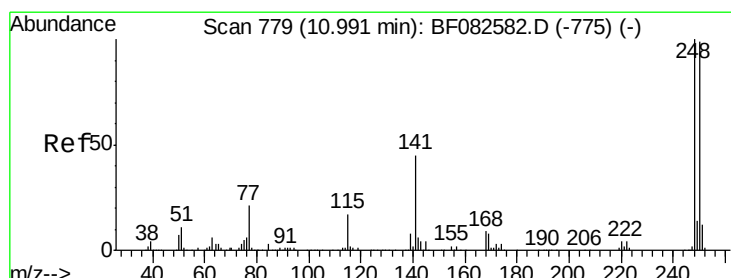
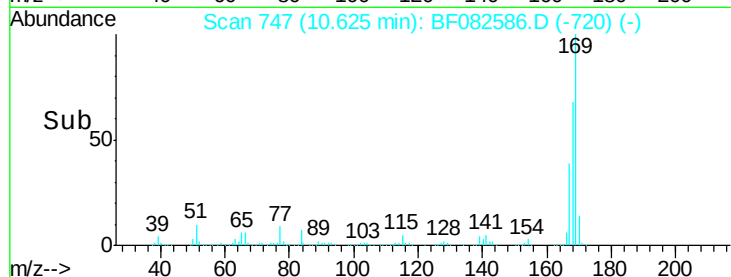
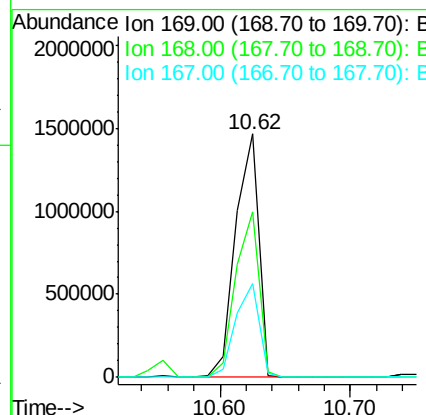
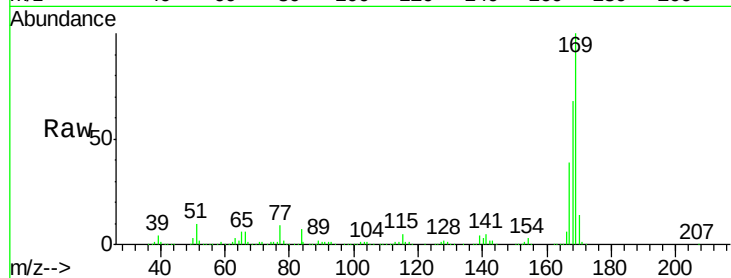
#65  
 n-Nitrosodiphenylamine  
 Concen: 75.82 ng  
 RT: 10.62 min Scan# 747  
 Delta R.T. 0.01 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 68.1  | 55.0  | 82.6  |
| 167     | 38.7  | 30.5  | 45.7  |

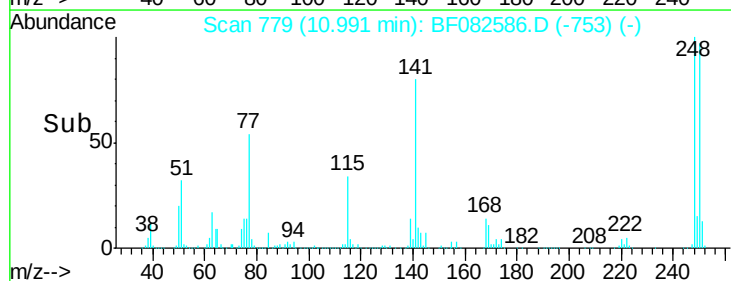
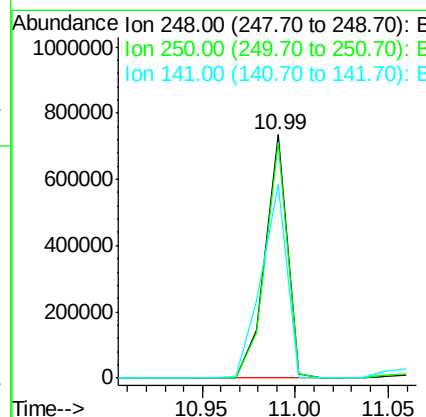
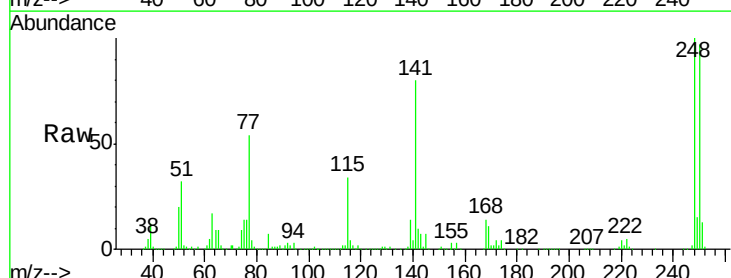
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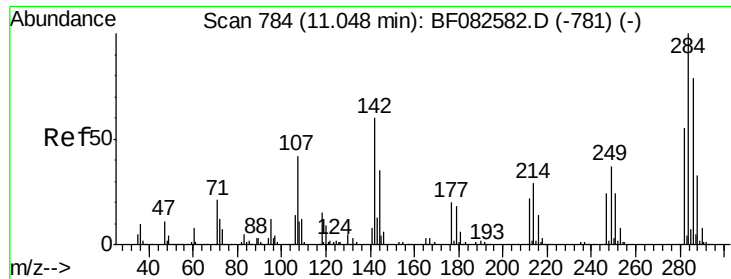
Mmdadoda  
 11/2/2015 4:32:04 PM



#66  
 4-Bromophenyl-phenylether  
 Concen: 79.01 ng  
 RT: 10.99 min Scan# 779  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 97.0  | 79.4  | 119.2 |
| 141     | 79.7  | 36.3  | 54.5# |





#67

Hexachlorobenzene

Concen: 79.90 ng

RT: 11.06 min Scan# 785

Delta R.T. 0.01 min

Lab File: BF082586.D

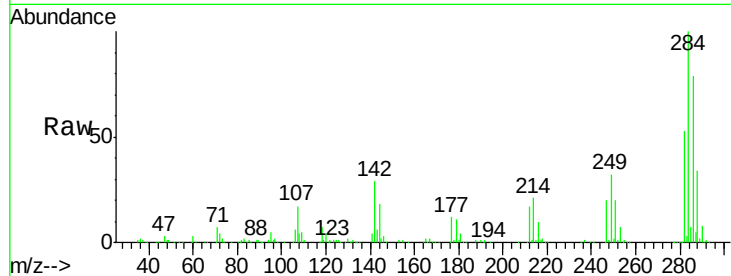
Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

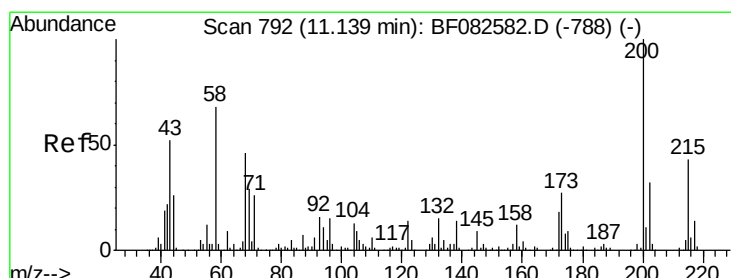
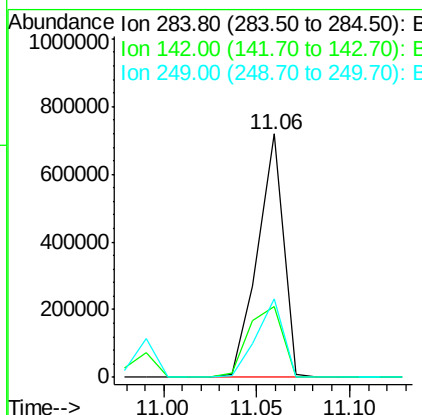
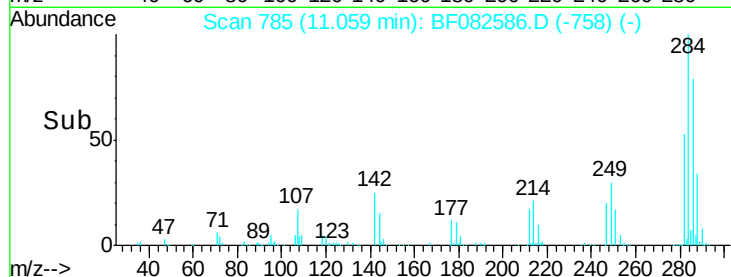
ICVBF103015



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 284     | 100   | 689986 |       |       |
| 142     | 29.1  | 47.9   | 71.9# |       |
| 249     | 32.0  | 29.7   | 44.5  |       |

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11/2/2015 4:32:04 PM



#68

Atrazine

Concen: 77.26 ng

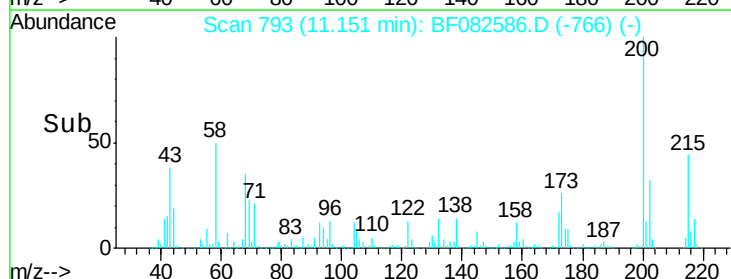
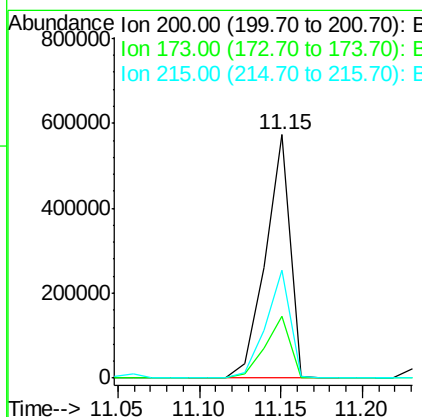
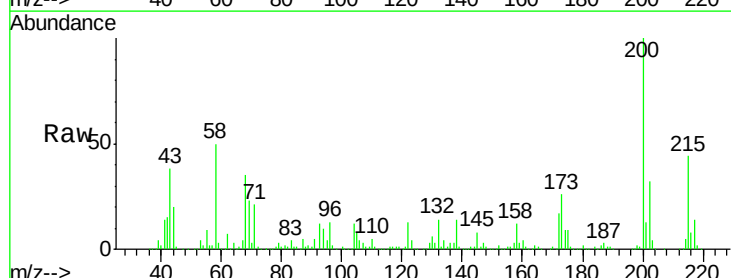
RT: 11.15 min Scan# 793

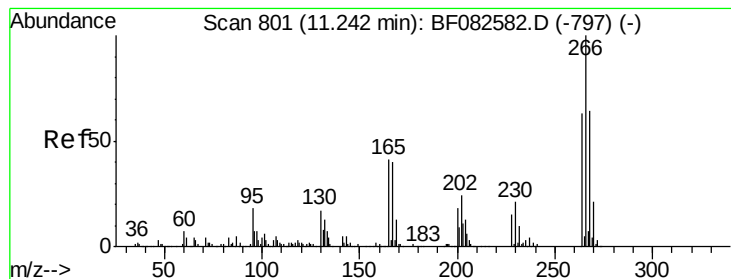
Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 200     | 100   | 597181 |       |       |
| 173     | 25.6  | 6.9    | 46.9  |       |
| 215     | 44.3  | 22.9   | 62.9  |       |





#69

Pentachlorophenol

Concen: 76.51 ng

RT: 11.24 min Scan# 801

Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015

Tgt Ion:266 Resp: 435708

Ion Ratio Lower Upper

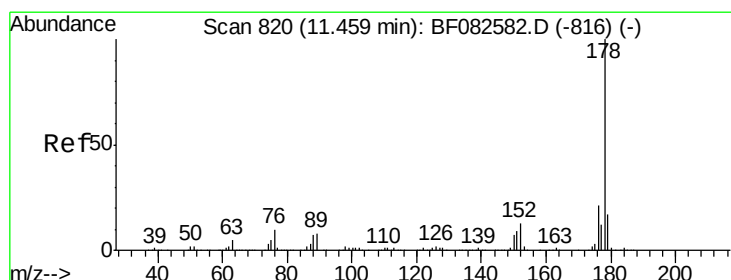
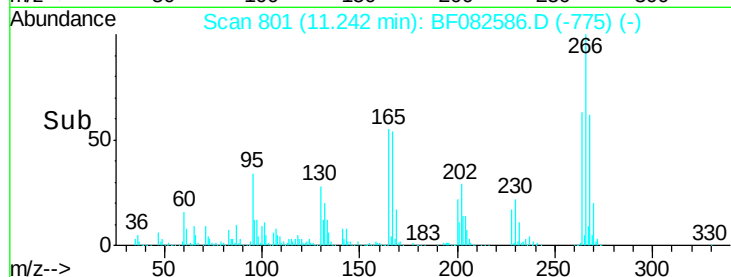
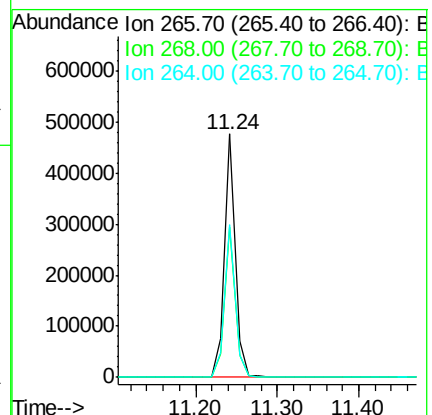
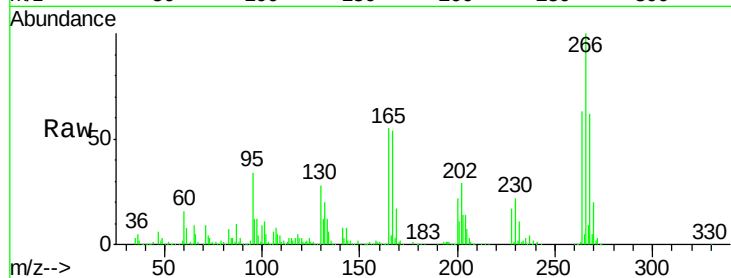
266 100

268 61.9 51.0 76.6

264 62.6 50.6 75.8

Manual Integrations  
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#70

Phenanthrene

Concen: 76.47 ng

RT: 11.47 min Scan# 821

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

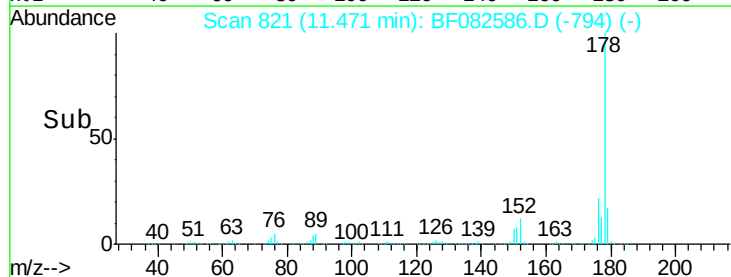
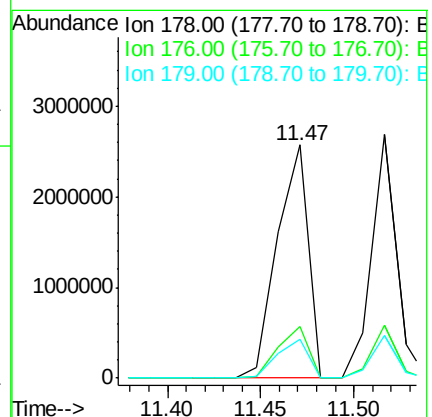
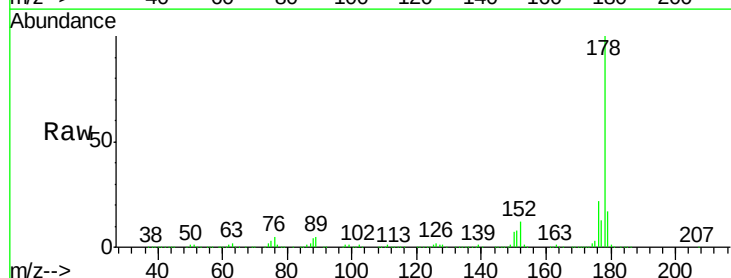
Tgt Ion:178 Resp: 2964108

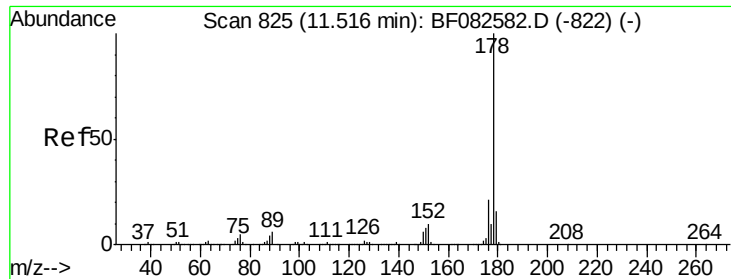
Ion Ratio Lower Upper

178 100

176 22.0 17.0 25.4

179 16.7 13.4 20.0





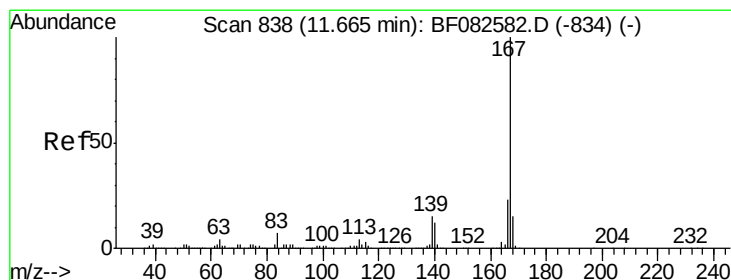
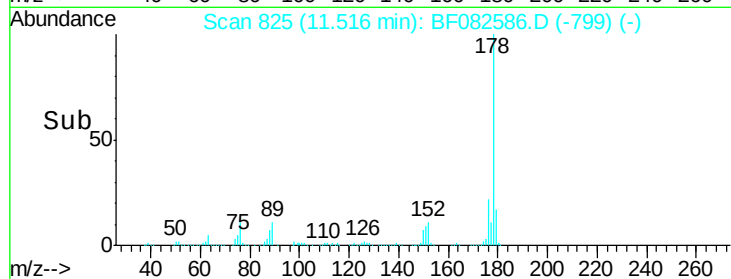
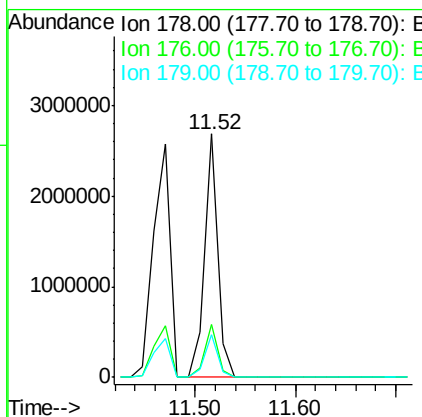
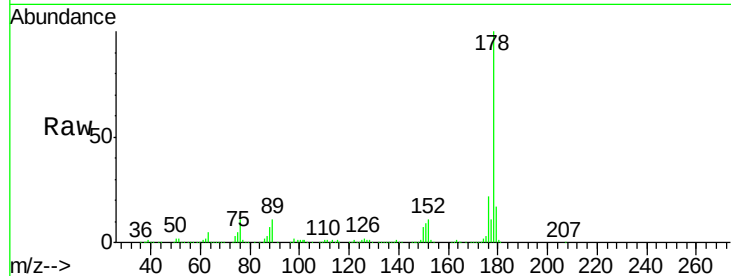
#71  
 Anthracene  
 Concen: 62.77 ng  
 RT: 11.52 min Scan# 825  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015

Tgt Ion:178 Resp: 2449995  
 Ion Ratio Lower Upper  
 178 100  
 176 21.7 16.5 24.7  
 179 17.3 13.2 19.8

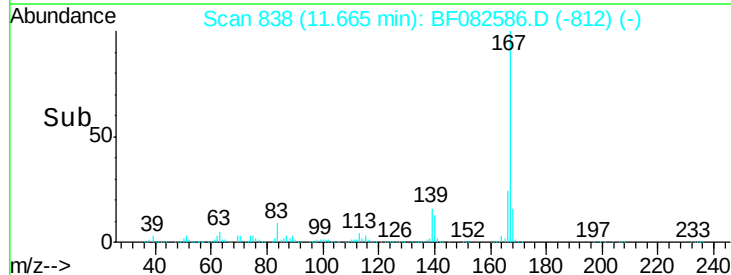
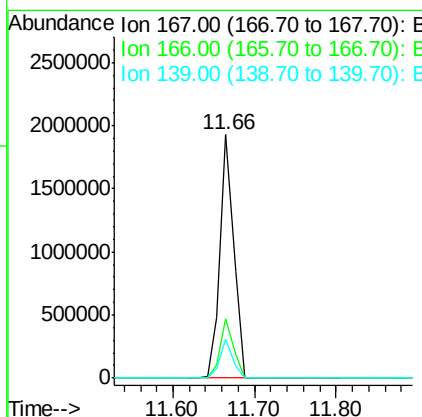
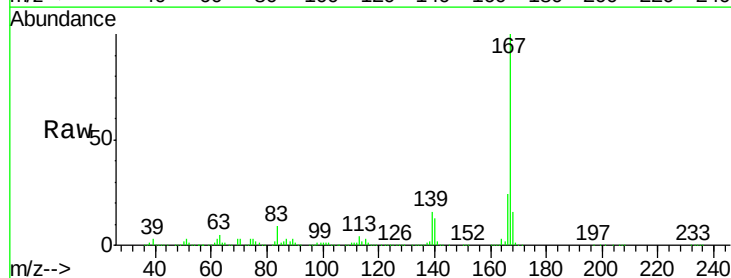
Manual Integrations  
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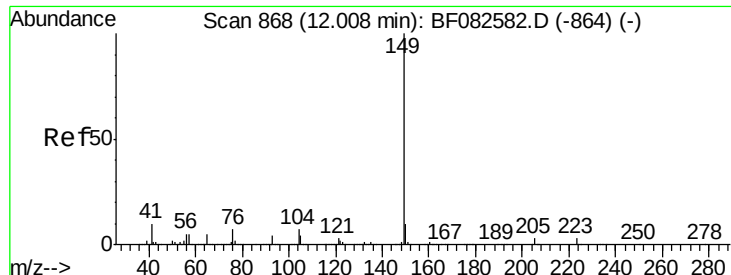


#72  
 Carbazole  
 Concen: 66.06 ng  
 RT: 11.66 min Scan# 838  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Tgt Ion:167 Resp: 2245678  
 Ion Ratio Lower Upper  
 167 100  
 166 24.2 18.7 28.1  
 139 16.1 11.8 17.6







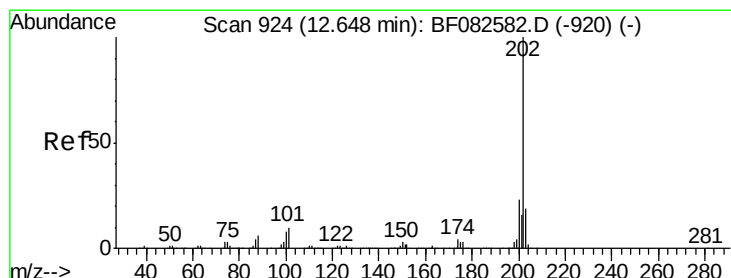
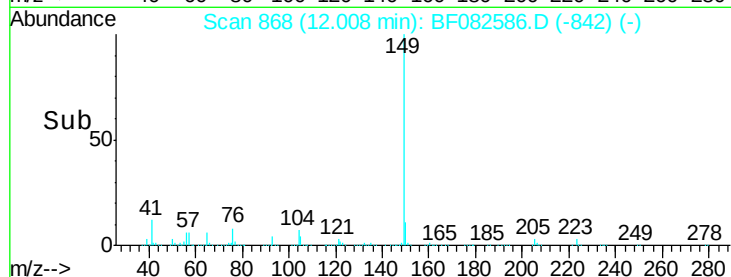
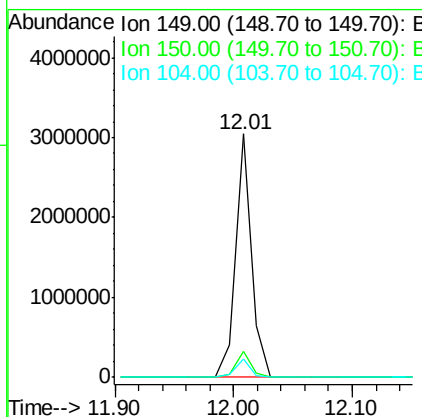
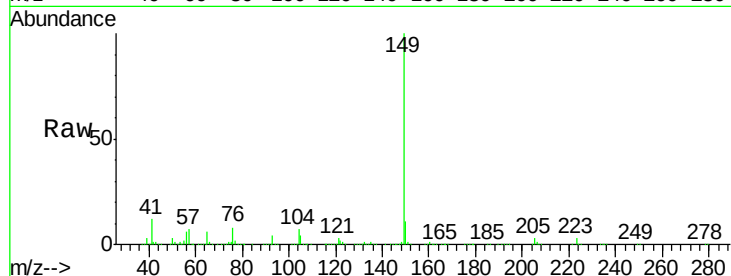
#73  
Di-n-butylphthalate  
Concen: 65.09 ng  
RT: 12.01 min Scan# 868  
Delta R.T. 0.00 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF103015

Tgt Ion:149 Resp: 2816973  
Ion Ratio Lower Upper  
149 100  
150 10.9 8.1 12.1  
104 7.4 5.2 7.8

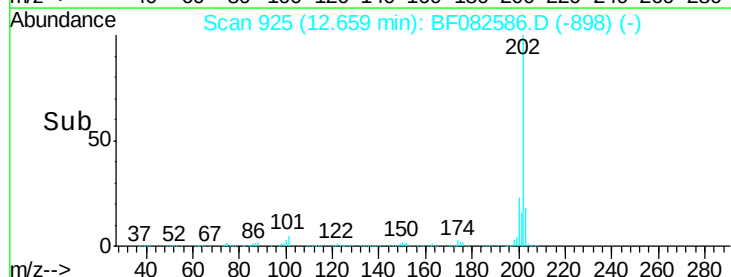
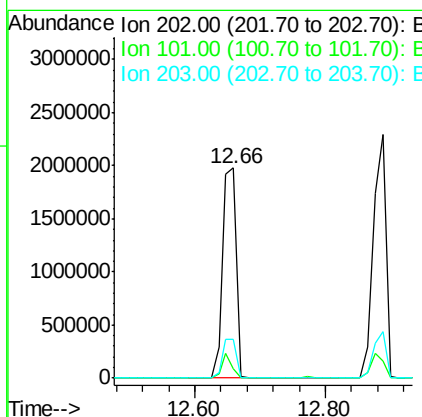
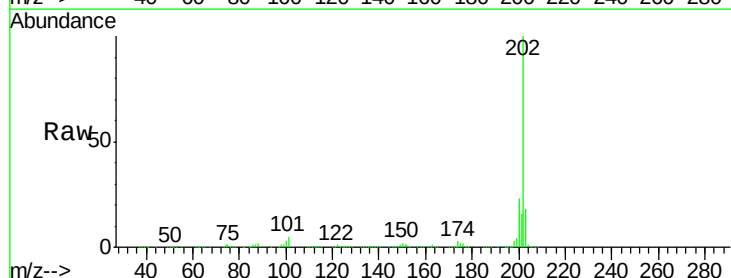
Manual Integrations  
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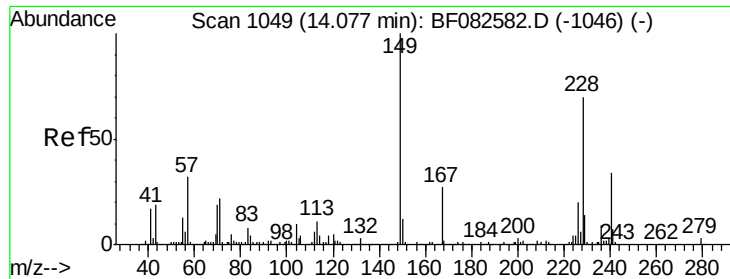
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#74  
Fluoranthene  
Concen: 72.89 ng  
RT: 12.66 min Scan# 925  
Delta R.T. 0.01 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Tgt Ion:202 Resp: 2888473  
Ion Ratio Lower Upper  
202 100  
101 4.6 0.0 30.5  
203 18.3 0.0 38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.09 min Scan# 1050

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

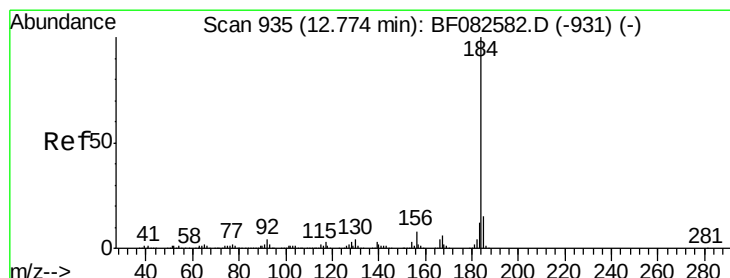
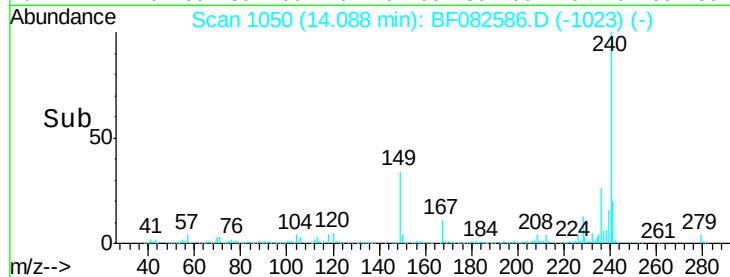
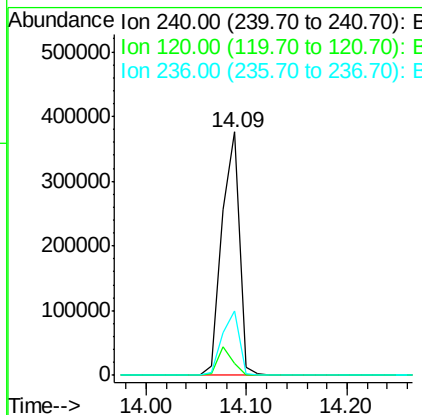
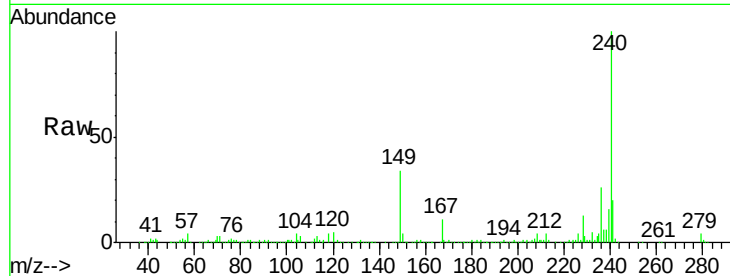
ClientSampleId :

ICVBF103015

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 454213 |       |       |
| 120     | 4.7   | 10.9   | 16.3# |       |
| 236     | 26.2  | 21.6   | 32.4  |       |

Manual Integrations  
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#76

Benzidine

Concen: 80.16 ng

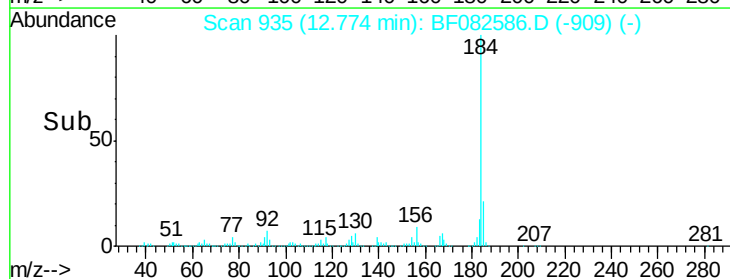
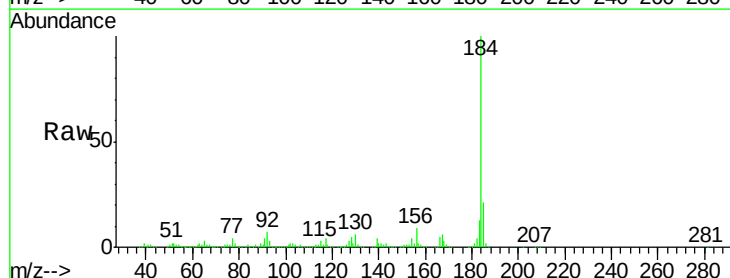
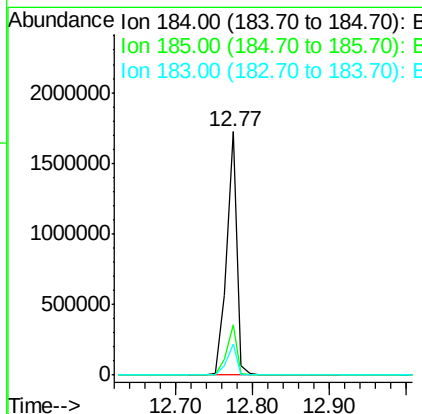
RT: 12.77 min Scan# 935

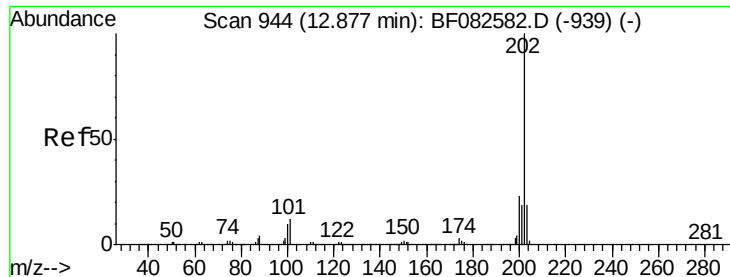
Delta R.T. 0.00 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 184     | 100   | 1642065 |       |       |
| 185     | 20.6  | 12.0    | 18.0# |       |
| 183     | 13.0  | 9.6     | 14.4  |       |





#77

Pyrene

Concen: 88.92 ng

RT: 12.89 min Scan# 945

Delta R.T. 0.01 min

Lab File: BF082586.D

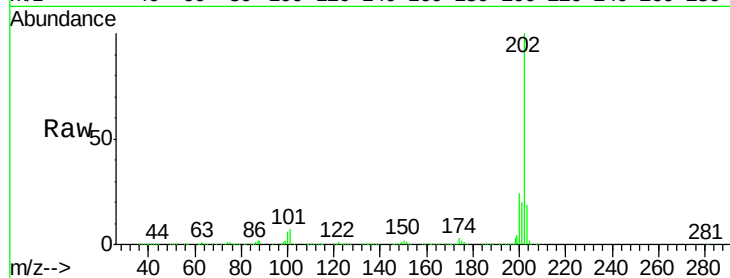
Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015



Tgt Ion:202 Resp: 2990696

Ion Ratio Lower Upper

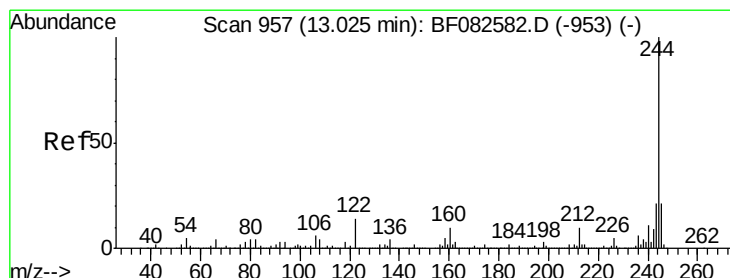
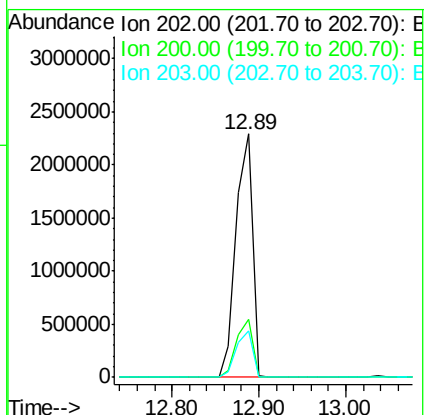
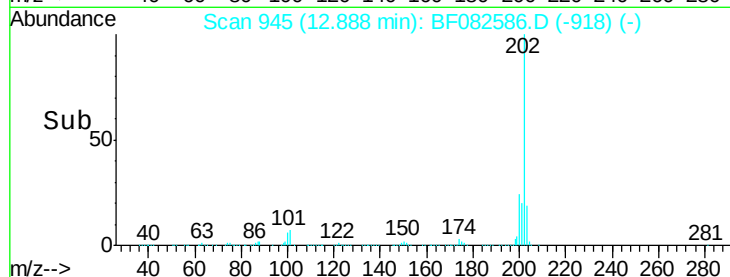
202 100

200 23.7 18.7 28.1

203 18.9 14.8 22.2

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#78

Terphenyl-d14

Concen: 179.05 ng

RT: 13.04 min Scan# 958

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

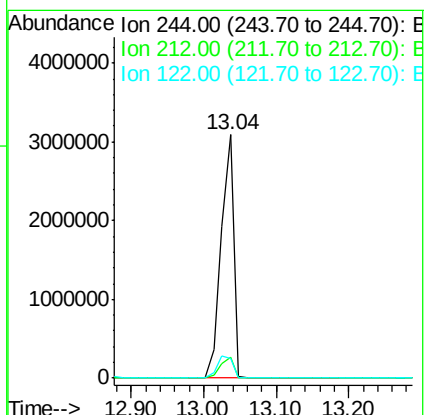
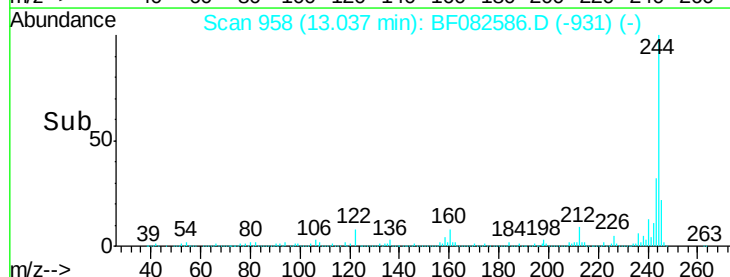
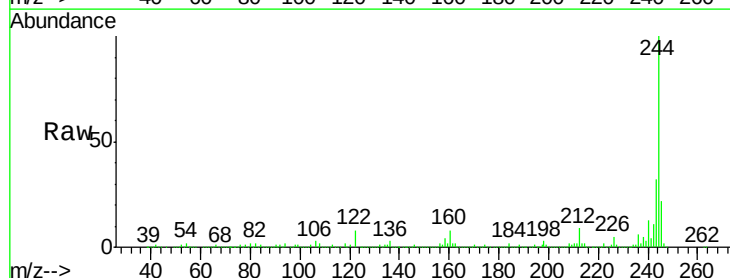
Tgt Ion:244 Resp: 3716224

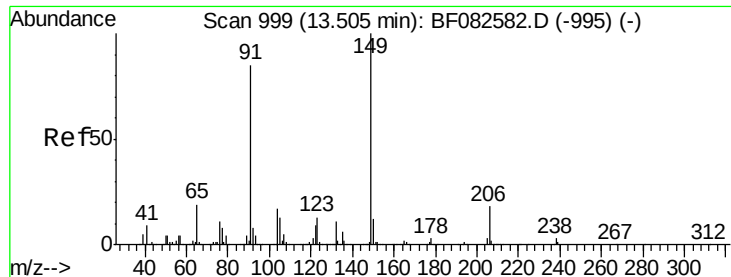
Ion Ratio Lower Upper

244 100

212 8.7 7.6 11.4

122 8.2 11.3 16.9#





#79

Butylbenzylphthalate

Concen: 82.27 ng

RT: 13.51 min Scan# 999

Delta R.T. 0.00 min

Lab File: BF082586.D

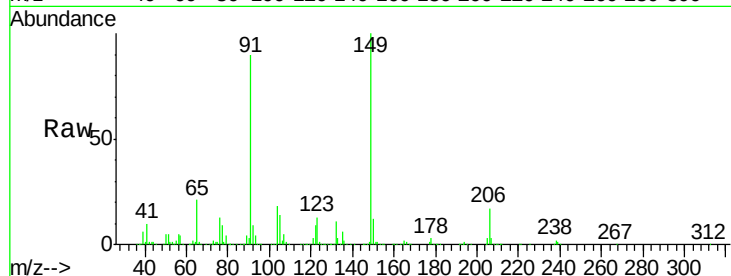
Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

ClientSampleId :

ICVBF103015



Tgt Ion:149 Resp: 1211978

Ion Ratio Lower Upper

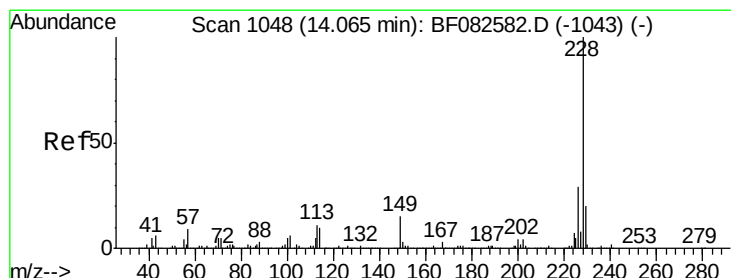
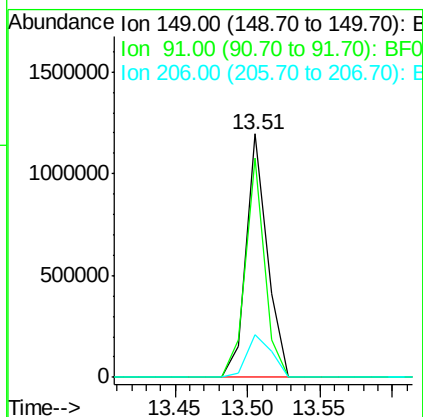
149 100

91 90.1 67.7 101.5

206 17.3 14.6 22.0

Manual Integrations  
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#80

Benzo(a)anthracene

Concen: 81.33 ng

RT: 14.08 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

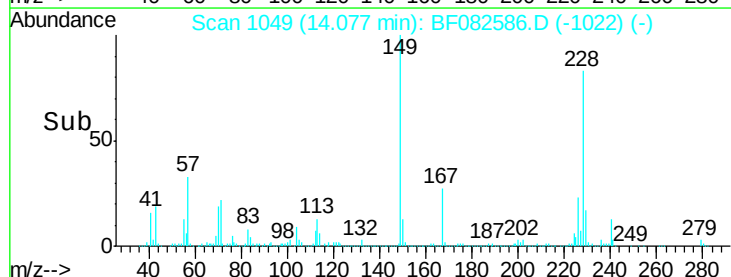
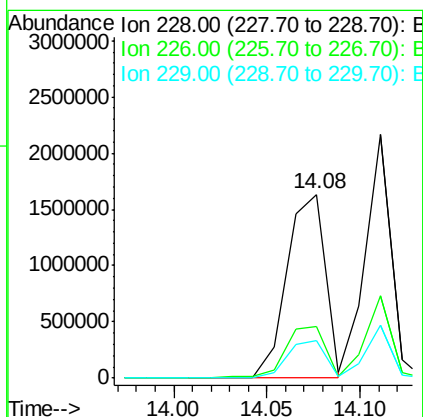
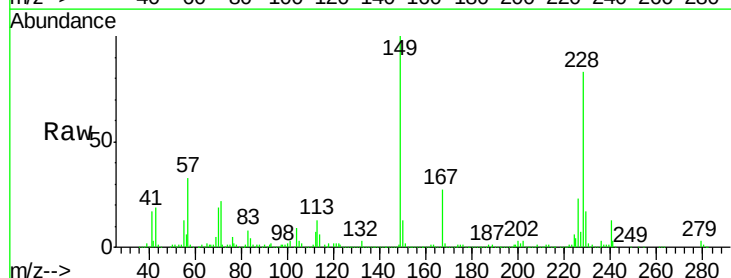
Tgt Ion:228 Resp: 2346490

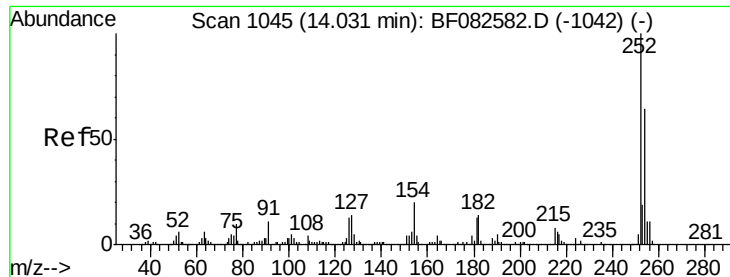
Ion Ratio Lower Upper

228 100

226 28.4 23.4 35.2

229 20.7 16.3 24.5





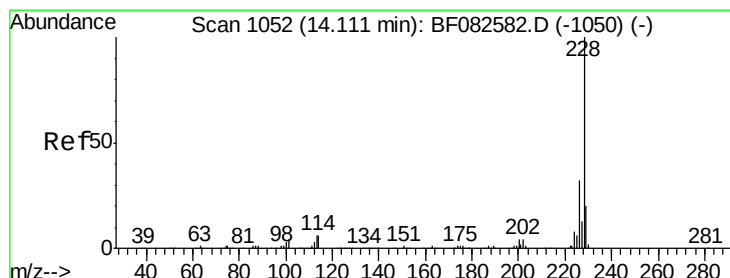
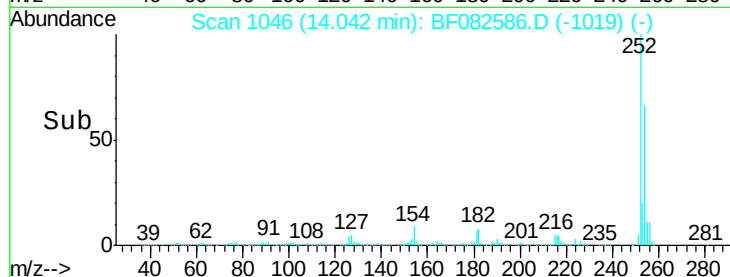
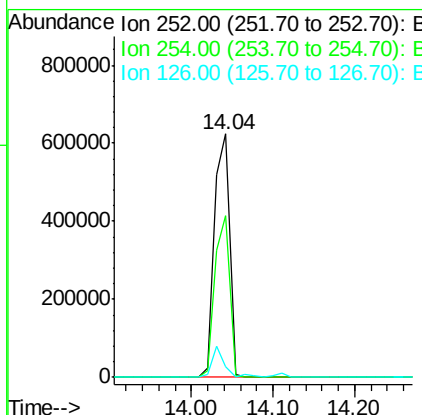
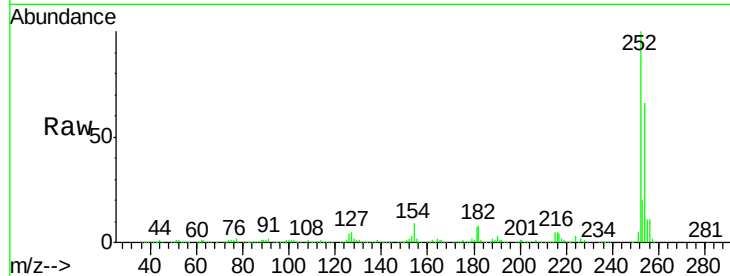
#81  
 3,3'-Dichlorobenzidine  
 Concen: 81.43 ng  
 RT: 14.04 min Scan# 1046  
 Delta R.T. 0.01 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 66.4  | 51.4  | 77.0  |
| 126     | 4.4   | 10.7  | 16.1  |

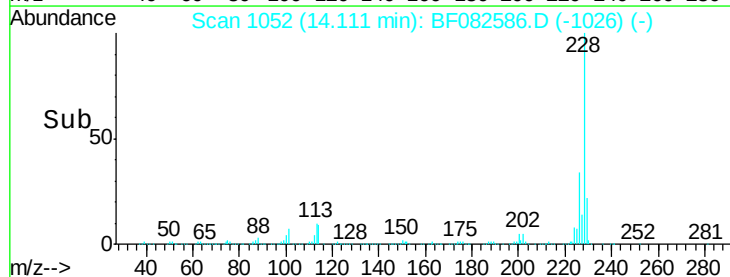
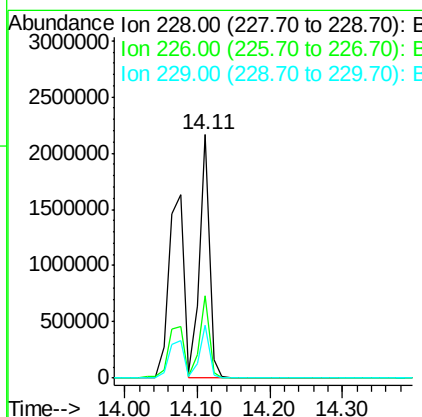
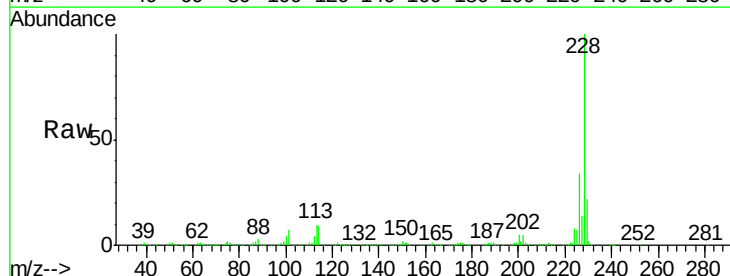
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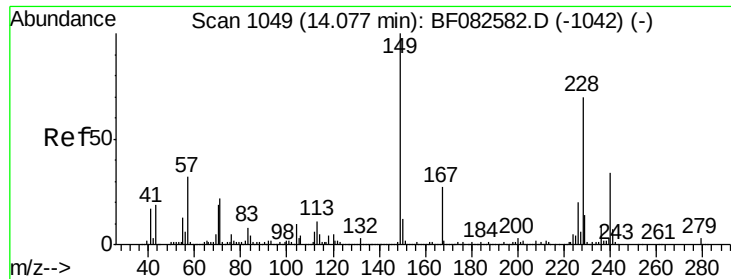
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#82  
 Chrysene  
 Concen: 78.89 ng  
 RT: 14.11 min Scan# 1052  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.6  | 25.5  | 38.3  |
| 229     | 21.7  | 16.3  | 24.5  |





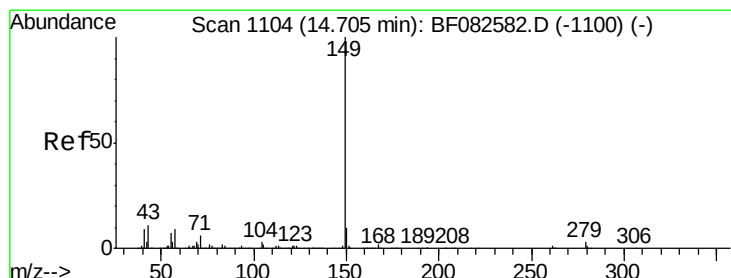
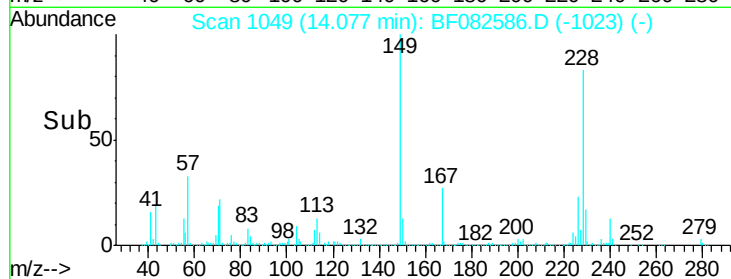
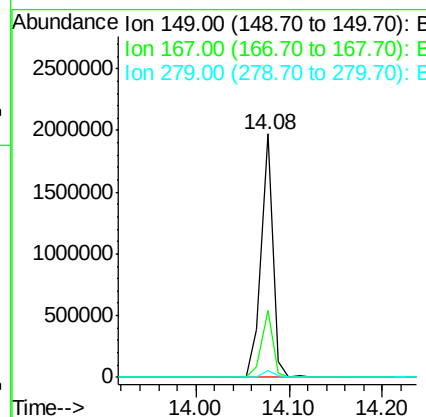
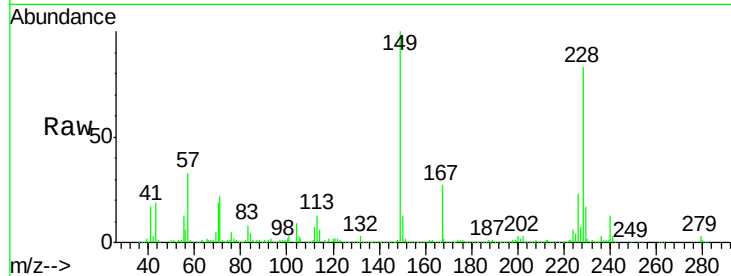
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 90.15 ng  
 RT: 14.08 min Scan# 1049  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015

Tgt Ion:149 Resp: 1721657  
 Ion Ratio Lower Upper  
 149 100  
 167 27.4 21.2 31.8  
 279 3.0 2.2 3.2

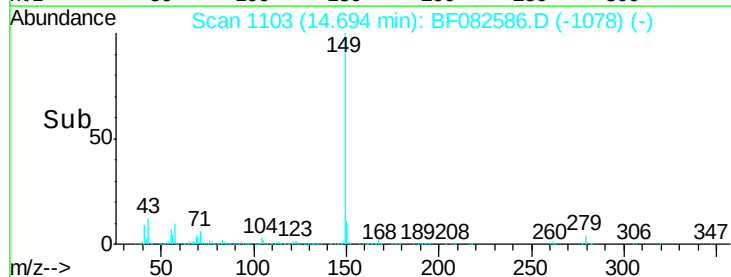
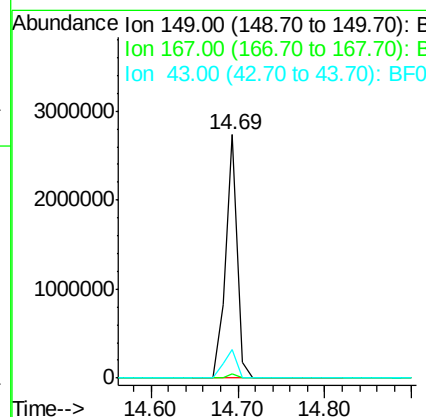
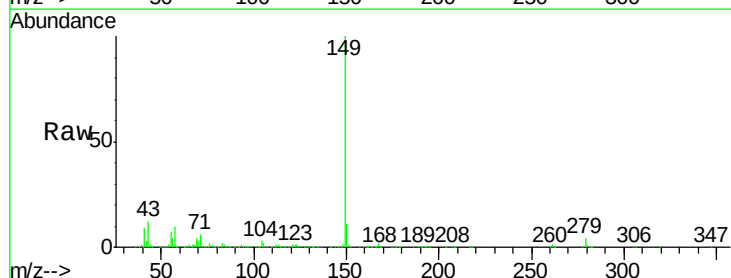
Manual Integrations  
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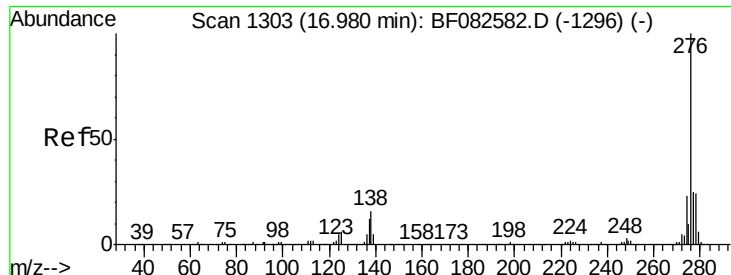
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#84  
 Di-n-octyl phthalate  
 Concen: 86.62 ng  
 RT: 14.69 min Scan# 1103  
 Delta R.T. -0.01 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Tgt Ion:149 Resp: 2580259  
 Ion Ratio Lower Upper  
 149 100  
 167 1.6 1.3 1.9  
 43 13.1 10.1 15.1





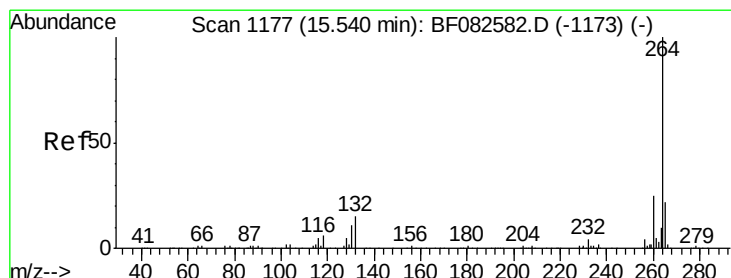
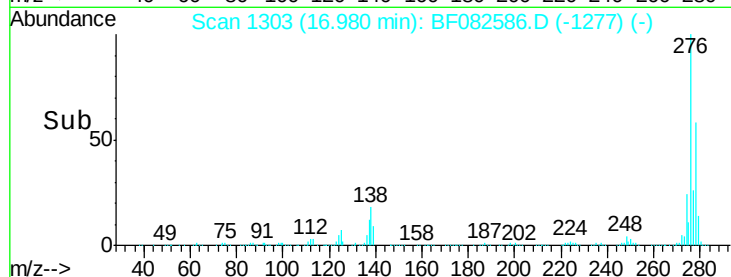
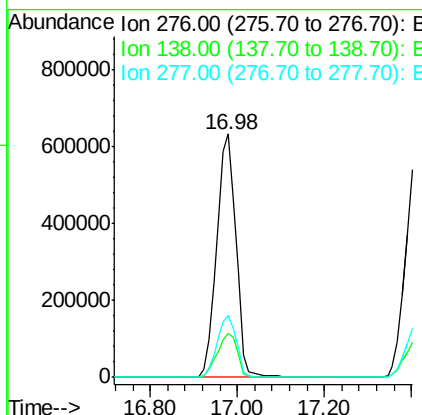
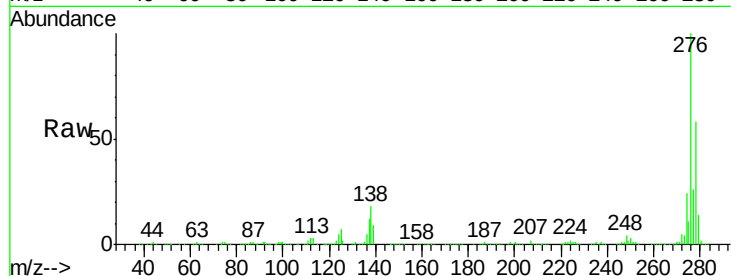
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 91.80 ng  
 RT: 16.98 min Scan# 1303  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.8  | 15.3  | 22.9  |
| 277     | 25.8  | 20.2  | 30.4  |

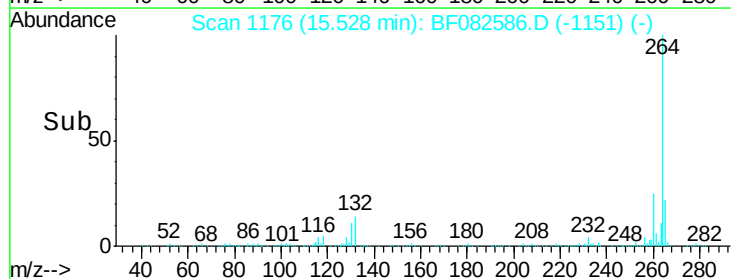
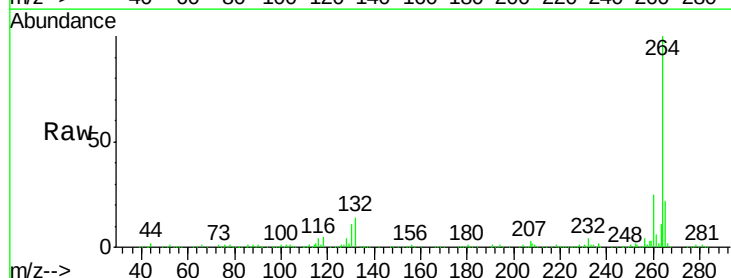
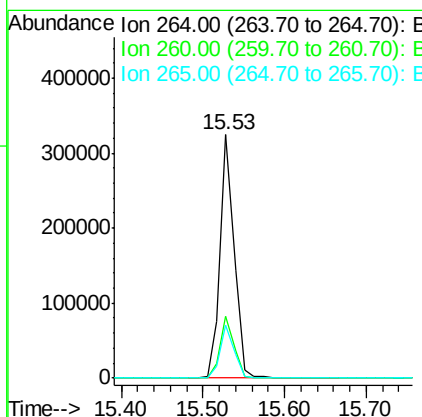
Manual Integrations  
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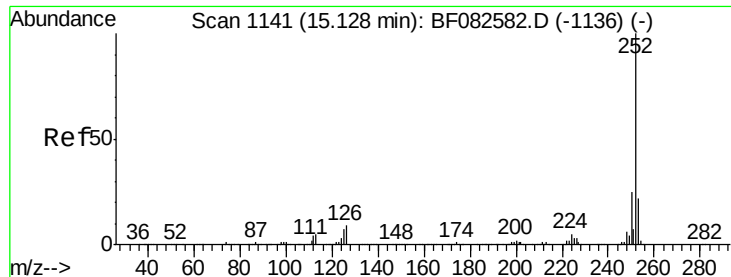
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#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.53 min Scan# 1176  
 Delta R.T. -0.01 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.5  | 19.8  | 29.6  |
| 265     | 21.7  | 17.4  | 26.0  |





#87

Benzo(b)fluoranthene

Concen: 63.15 ng

RT: 15.12 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

Instrument :

BNA\_F

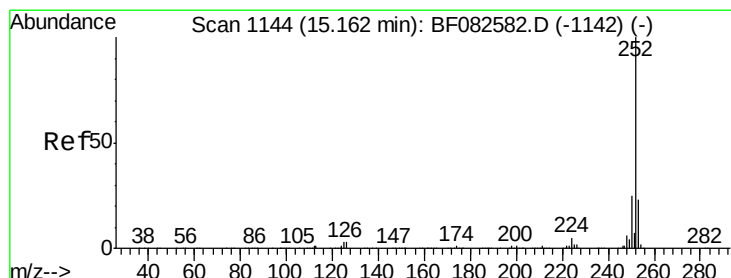
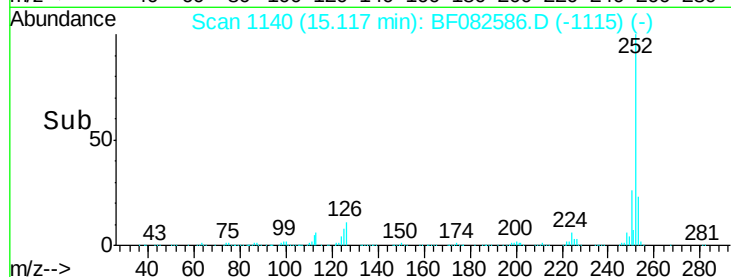
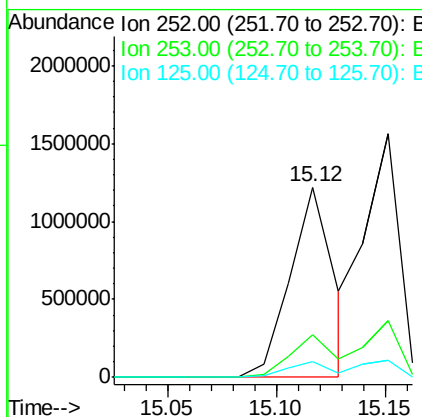
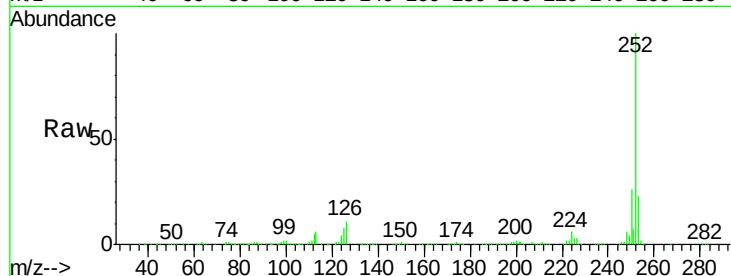
ClientSampleId :

ICVBF103015

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1690376 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 22.7  | 17.8  | 26.8    |
| 125       | 8.1   | 5.4   | 8.2     |

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#88

Benzo(k)fluoranthene

Concen: 86.21 ng m

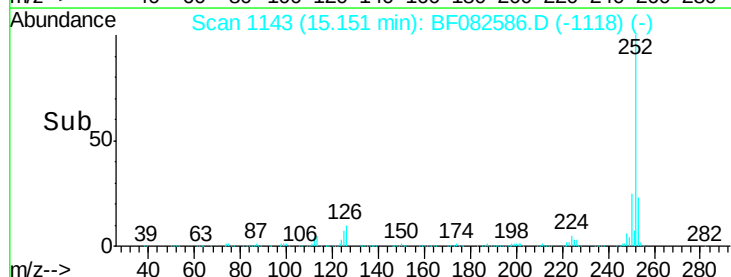
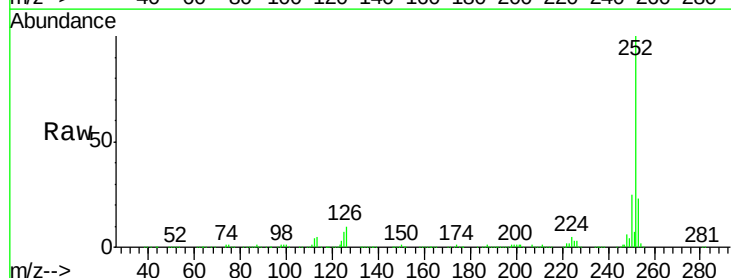
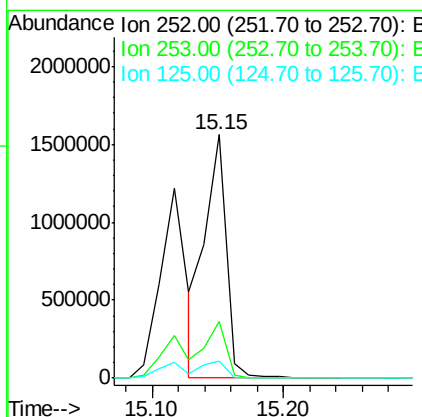
RT: 15.15 min Scan# 1143

Delta R.T. -0.01 min

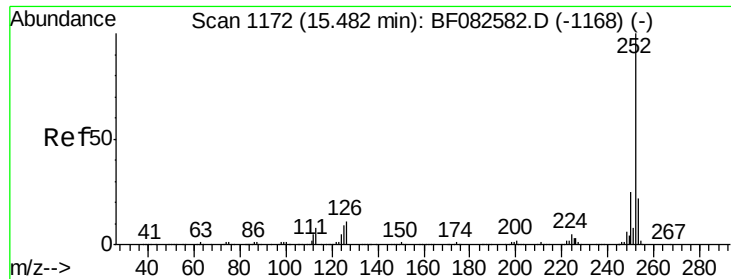
Lab File: BF082586.D

Acq: 30 Oct 2015 22:01

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1758017 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 23.4  | 17.9  | 26.9    |
| 125       | 6.8   | 3.5   | 5.3#    |







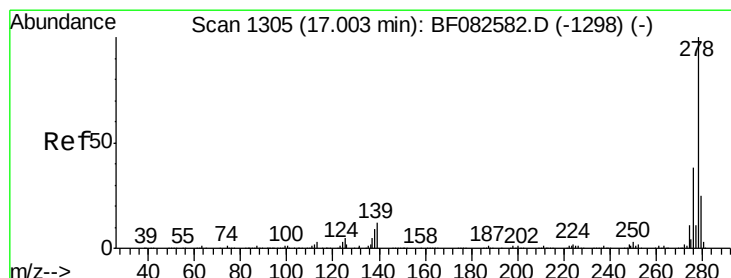
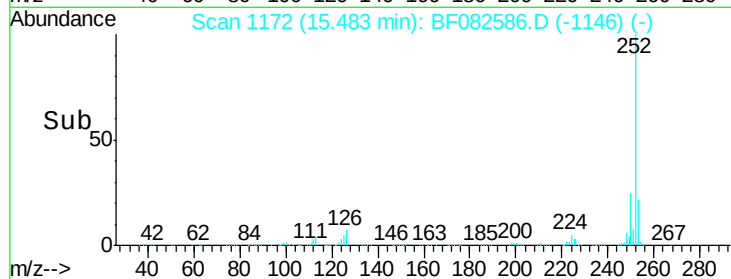
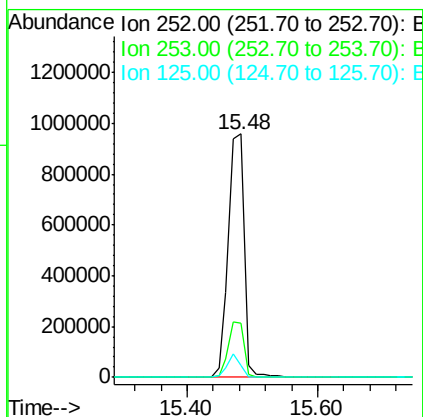
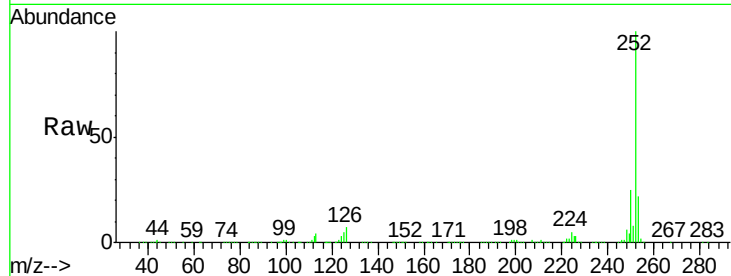
#89  
Benzo(a)pyrene  
Concen: 76.76 ng  
RT: 15.48 min Scan# 1172  
Delta R.T. 0.00 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF103015

Tgt Ion: 252 Resp: 1618157  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.3 25.9  
125 4.8 7.1 10.7#

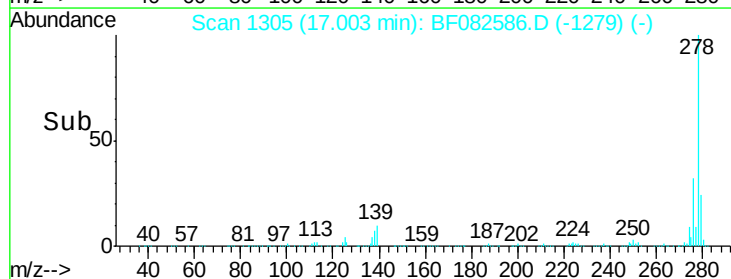
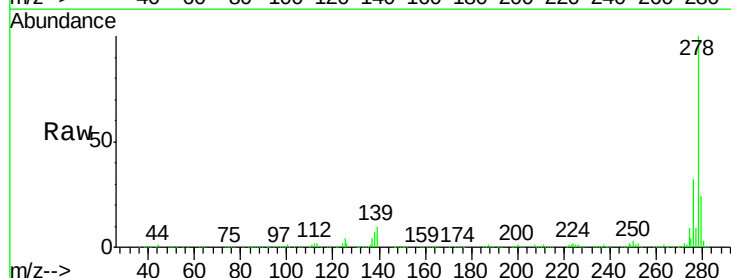
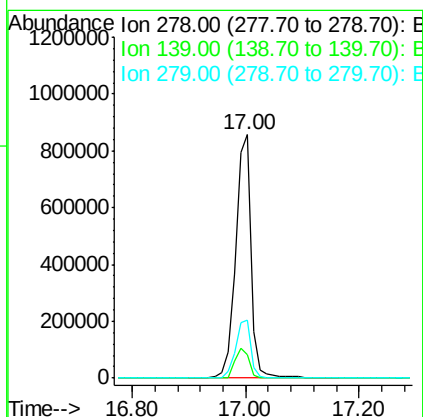
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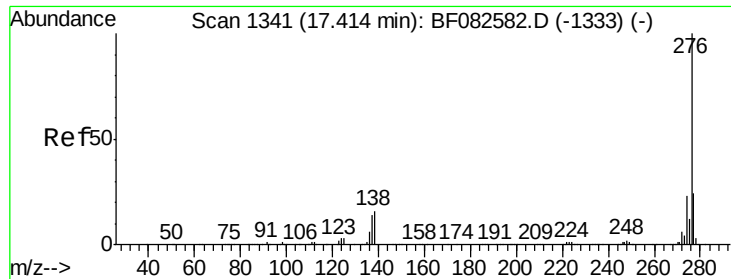
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#90  
Dibenzo(a,h)anthracene  
Concen: 83.67 ng  
RT: 17.00 min Scan# 1305  
Delta R.T. 0.00 min  
Lab File: BF082586.D  
Acq: 30 Oct 2015 22:01

Tgt Ion: 278 Resp: 1645722  
Ion Ratio Lower Upper  
278 100  
139 9.6 9.9 14.9#  
279 23.8 19.6 29.4





#91  
 Benzo(g,h,i)perylene  
 Concen: 83.88 ng  
 RT: 17.41 min Scan# 1341  
 Delta R.T. 0.00 min  
 Lab File: BF082586.D  
 Acq: 30 Oct 2015 22:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF103015

|           |      |       |         |
|-----------|------|-------|---------|
| Tgt Ion:  | 276  | Resp: | 1598849 |
| Ion Ratio |      | Lower | Upper   |
| 276       | 100  |       |         |
| 277       | 23.6 | 19.2  | 28.8    |
| 138       | 15.9 | 13.1  | 19.7    |

Manual Integrations  
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