

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081616\  
 Data File : BF089753.D  
 Acq On : 17 Aug 2016 9:59  
 Operator : UM/SJ  
 Sample : H4145-14  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 9536

Manual Integrations  
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 8/17/2016 6:24:54 PM

Quant Time: Aug 17 11:20:15 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 16 19:45:04 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.70  | 152  | 647678   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.99  | 136  | 2664396  | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.74  | 164  | 1238848  | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.22 | 188  | 2399783  | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12          | 13.92 | 240  | 1360216  | 20.00 | ng    | 0.02     |
| 86) Perylene-d12          | 15.43 | 264  | 1516027  | 20.00 | ng    | 0.02     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.29  | 112 | 4254297 | 109.60 | ng | 0.01 |
| 7) Phenol-d6             | 6.34  | 99  | 5952407 | 120.56 | ng | 0.01 |
| 23) Nitrobenzene-d5      | 7.27  | 82  | 3577928 | 82.00  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.52 | 330 | 1292922 | 107.88 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.07  | 172 | 5665495 | 73.38  | ng | 0.00 |
| 78) Terphenyl-d14        | 12.81 | 244 | 5047190 | 110.85 | ng | 0.00 |

## Target Compounds

|                                |       |     |          |        |    | Qvalue |
|--------------------------------|-------|-----|----------|--------|----|--------|
| 4) n-Nitrosodimethylamine      | 2.90  | 42  | 2517465  | 121.46 | ng | 89     |
| 12) 1,3-Dichlorobenzene        | 6.65  | 146 | 5557853m | 112.62 | ng |        |
| 13) 1,4-Dichlorobenzene        | 6.72  | 146 | 1339199  | 26.79  | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 6.88  | 146 | 2546758  | 53.42  | ng | 98     |
| 18) Hexachloroethane           | 7.22  | 117 | 967485   | 52.80  | ng | # 88   |
| 24) Nitrobenzene               | 7.29  | 77  | 2539341  | 51.73  | ng | # 87   |
| 25) Isophorone                 | 7.53  | 82  | 9189052  | 105.25 | ng | # 89   |
| 28) bis(2-Chloroethoxy)methane | 7.75  | 93  | 2632526  | 49.62  | ng | 97     |
| 31) Naphthalene                | 8.01  | 128 | 7552361  | 63.15  | ng | # 90   |
| 34) Hexachlorobutadiene        | 8.14  | 225 | 1052724  | 51.22  | ng | 99     |
| 37) 2-Methylnaphthalene        | 8.70  | 142 | 3692453  | 45.36  | ng | # 96   |
| 40) Hexachlorocyclopentadiene  | 8.87  | 237 | 2206376  | 124.31 | ng | 98     |
| 46) 2-Chloronaphthalene        | 9.20  | 162 | 8535554  | 111.02 | ng | # 88   |
| 49) Dimethylphthalate          | 9.47  | 163 | 7612578  | 84.92  | ng | 96     |
| 50) 2,6-Dinitrotoluene         | 9.54  | 165 | 1532143  | 75.52  | ng | # 58   |
| 54) Dibenzofuran               | 9.95  | 168 | 7502925  | 76.34  | ng | 96     |
| 56) 2,4-Dinitrotoluene         | 9.93  | 165 | 1685545  | 64.63  | ng | # 71   |
| 59) Diethylphthalate           | 10.18 | 149 | 7598166  | 83.60  | ng | # 88   |
| 60) 4-Chlorophenyl-phenylether | 10.30 | 204 | 4194628  | 107.59 | ng | 97     |
| 65) n-Nitrosodiphenylamine     | 10.41 | 169 | 5704517  | 75.75  | ng | 93     |
| 66) 4-Bromophenyl-phenylether  | 10.78 | 248 | 1957231  | 78.75  | ng | # 70   |
| 67) Hexachlorobenzene          | 10.83 | 284 | 1286204  | 46.56  | ng | # 75   |
| 70) Phenanthrene               | 11.26 | 178 | 10749921 | 91.14  | ng | # 85   |
| 73) Di-n-butylphthalate        | 11.80 | 149 | 9060081  | 63.79  | ng | # 90   |
| 77) Pyrene                     | 12.66 | 202 | 11867572 | 133.32 | ng | # 84   |
| 79) Butylbenzylphthalate       | 13.33 | 149 | 7356870  | 164.75 | ng | 97     |
| 80) Benzo(a)anthracene         | 13.91 | 228 | 12311998 | 155.80 | ng | 90     |
| 82) Chrysene                   | 13.95 | 228 | 9466460m | 133.09 | ng |        |
| 83) Bis(2-ethylhexyl)phthalate | 13.92 | 149 | 3287683  | 55.63  | ng | # 99   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.74 | 276 | 4814471  | 79.45  | ng | 99     |
| 87) Benzo(b)fluoranthene       | 15.04 | 252 | 6429227m | 66.93  | ng |        |
| 88) Benzo(k)fluoranthene       | 15.06 | 252 | 1968721m | 24.90  | ng |        |
| 89) Benzo(a)pyrene             | 15.39 | 252 | 10627376 | 134.00 | ng | 95     |
| 90) Dibenzo(a,h)anthracene     | 16.77 | 278 | 3201298  | 51.26  | ng | 98     |

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Operator : UM/SJ  
Sample : H4145-14  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
9536

Manual Integrations  
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Quant Time: Aug 17 11:20:15 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081616.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 16 19:45:04 2016  
Response via : Initial Calibration

| Internal Standards       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------|-------|------|----------|-------|-------|----------|
| 91) Benzo(q,h,i)perylene | 17.15 | 276  | 5924249  | 93.21 | nq    | 97       |

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

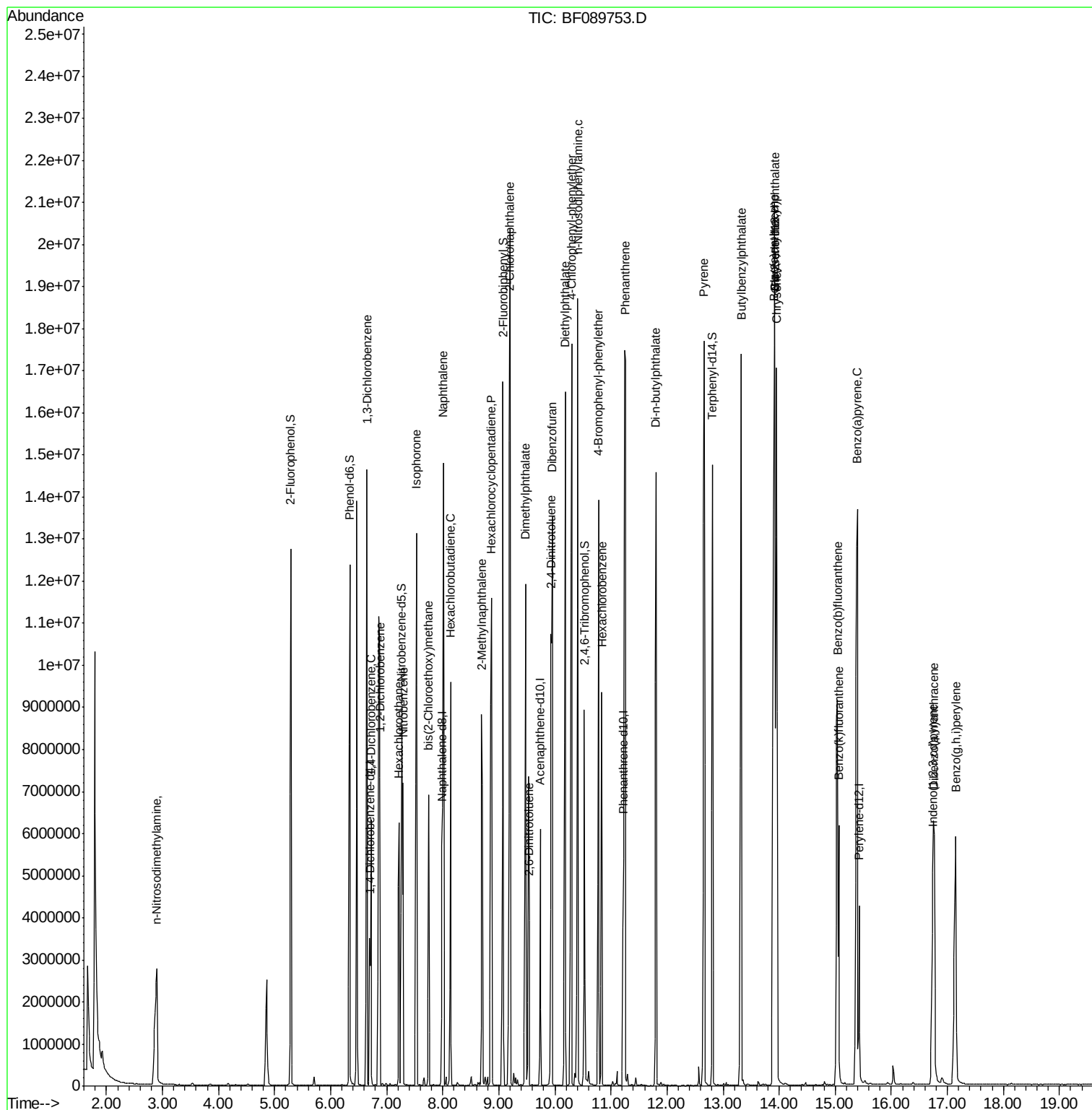
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081616\  
Data File : BF089753.D  
Acq On : 17 Aug 2016 9:59  
Operator : UM/SJ  
Sample : H4145-14  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

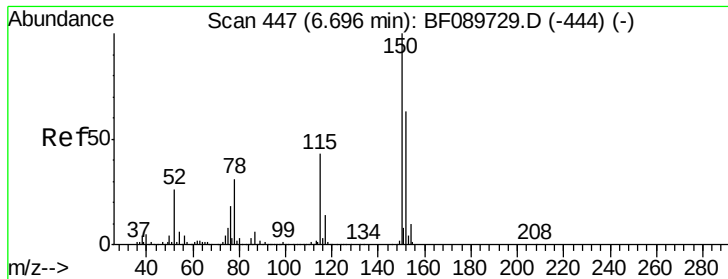
Instrument :  
BNA\_F  
ClientSampled :  
9536

Manual Integrations  
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Quant Time: Aug 17 11:20:15 2016  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 16 19:45:04 2016  
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#1

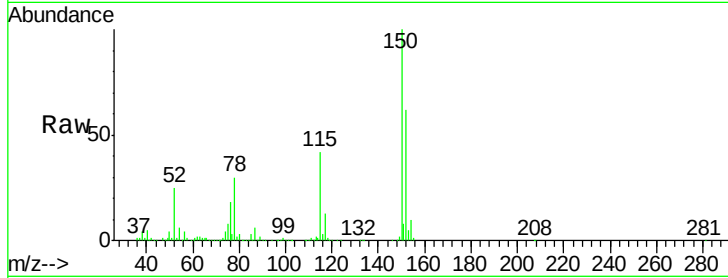
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.70 min Scan# 447  
Delta R.T. 0.00 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Instrument :  
BNA\_F  
ClientSampleId :  
9536

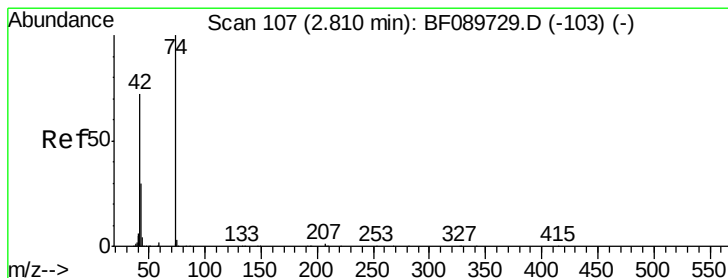
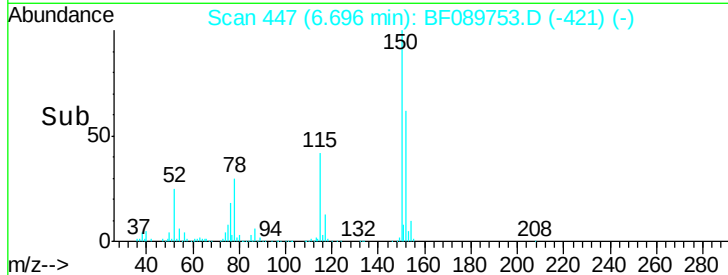
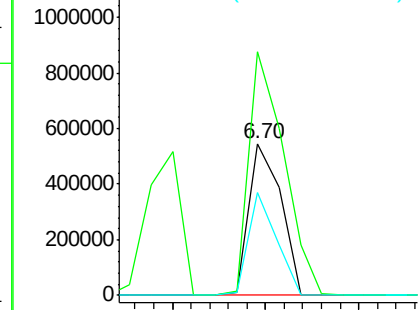
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.1 | 125.3 | 187.9 |
| 115     | 67.3  | 40.9  | 61.3  |

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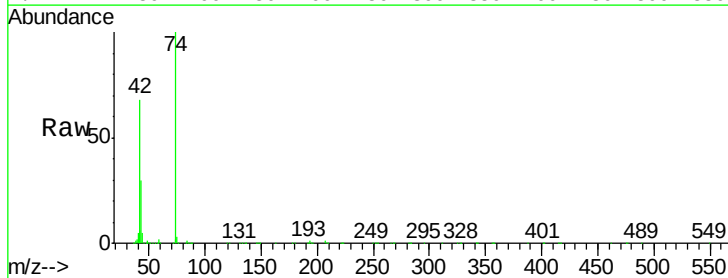
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



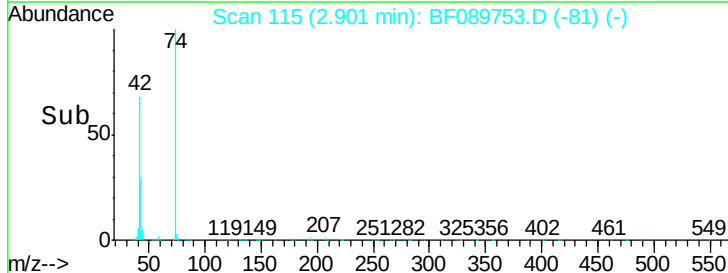
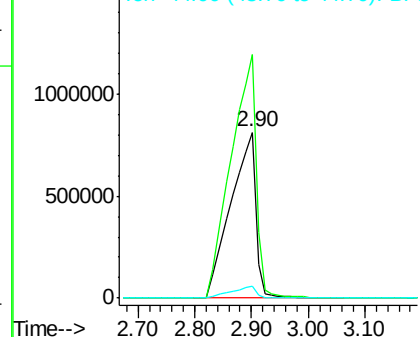
#4

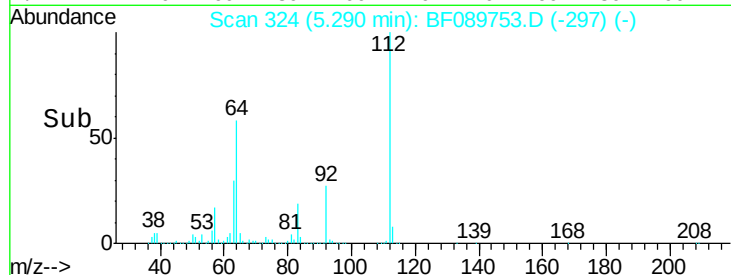
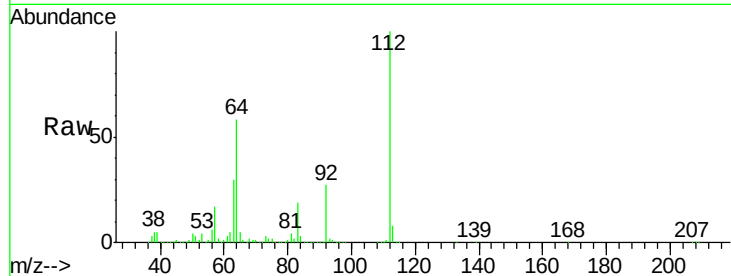
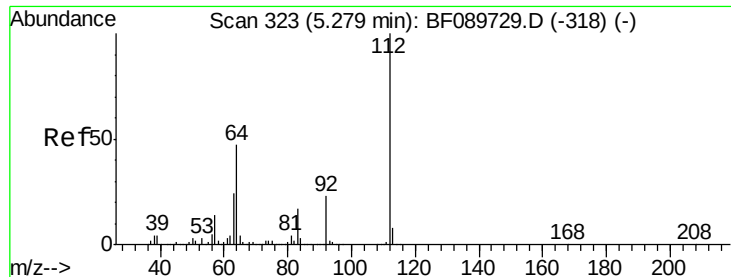
n-Nitrosodimethylamine  
Concen: 121.46 ng  
RT: 2.90 min Scan# 115  
Delta R.T. 0.09 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 146.7 | 106.2 | 159.2 |
| 44      | 7.2   | 6.9   | 10.3  |



Abundance Ion 42.00 (41.70 to 42.70): BF0  
Ion 74.00 (73.70 to 74.70): BF0  
Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 109.60 ng

RT: 5.29 min Scan# 324

Delta R.T. 0.01 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 112   | Resp: | 4254297 |
| Ion      | Ratio | Lower | Upper   |
| 112      | 100   |       |         |
| 64       | 57.5  | 45.0  | 67.4    |
| 63       | 29.7  | 23.1  | 34.7    |

Instrument :

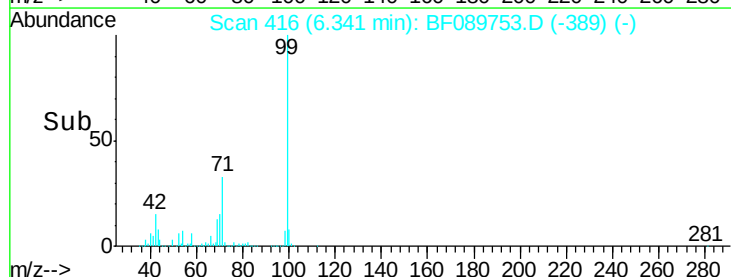
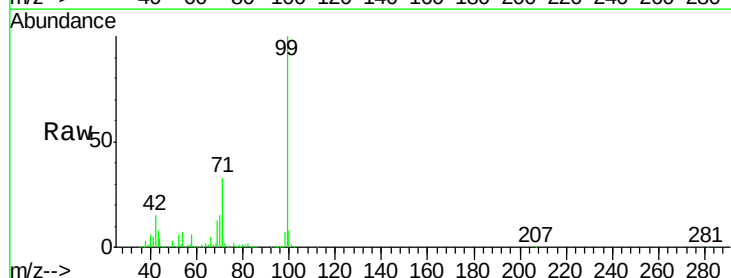
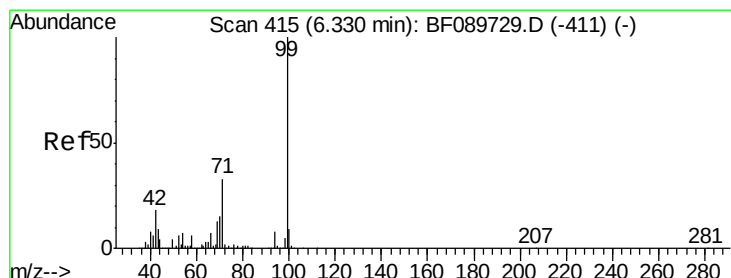
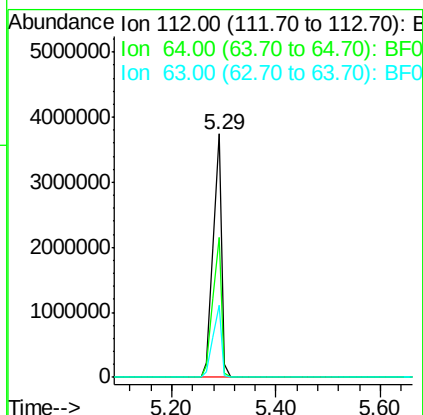
BNA\_F

ClientSampled :

9536

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#7

Phenol-d6

Concen: 120.56 ng

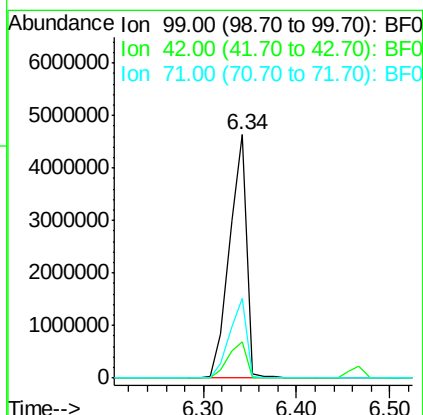
RT: 6.34 min Scan# 416

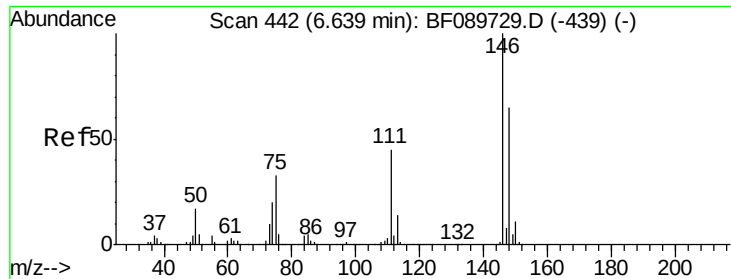
Delta R.T. 0.01 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 99    | Resp: | 5952407 |
| Ion      | Ratio | Lower | Upper   |
| 99       | 100   |       |         |
| 42       | 15.0  | 12.2  | 18.4    |
| 71       | 32.9  | 23.8  | 35.8    |





#12

1,3-Dichlorobenzene

Concen: 112.62 ng/mL

RT: 6.65 min Scan# 443

Delta R.T. 0.01 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampled :

9536

Tot Ion:146 Resp: 5557853

Ion Ratio Lower Upper

146 100

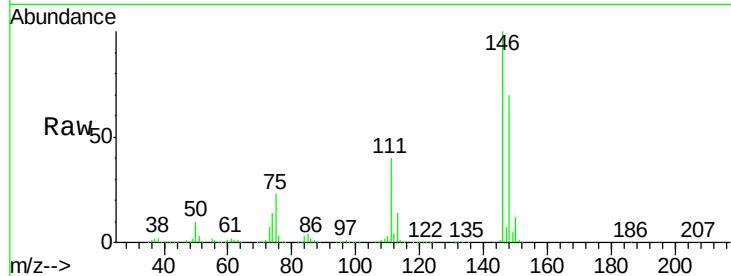
148 70.2 51.0 76.4

75 23.1 27.0 40.6#

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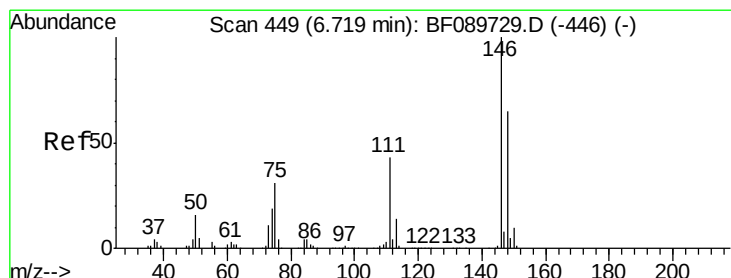
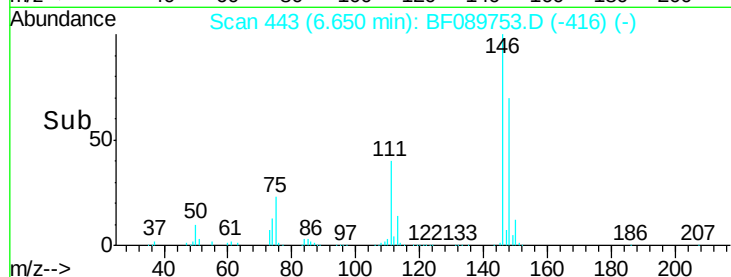
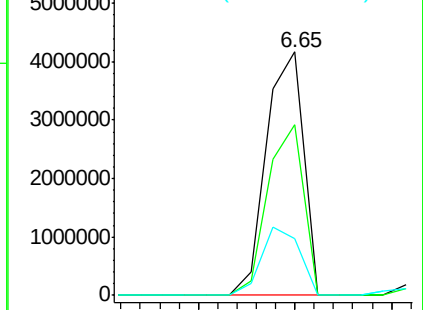
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Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0



#13

1,4-Dichlorobenzene

Concen: 26.79 ng/mL

RT: 6.72 min Scan# 449

Delta R.T. -0.00 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

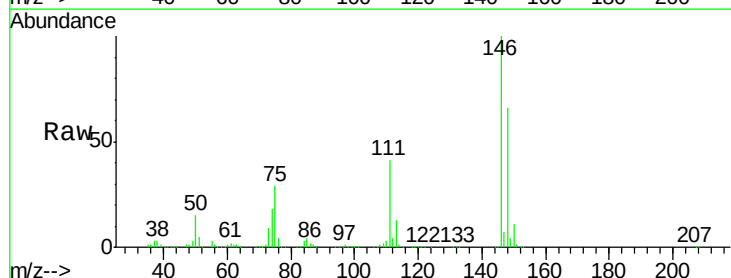
Tgt Ion:146 Resp: 1339199

Ion Ratio Lower Upper

146 100

148 65.6 51.0 76.6

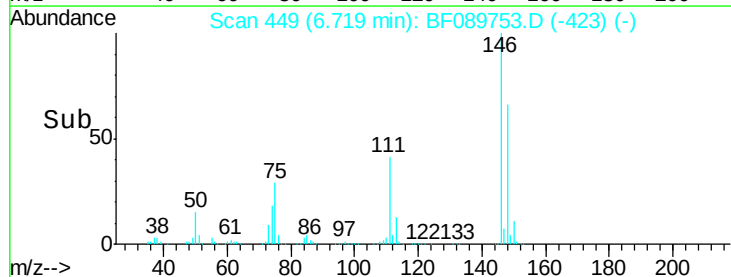
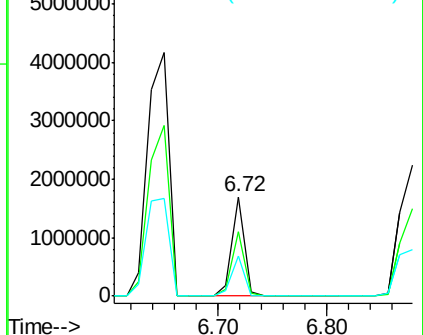
111 40.5 34.6 52.0

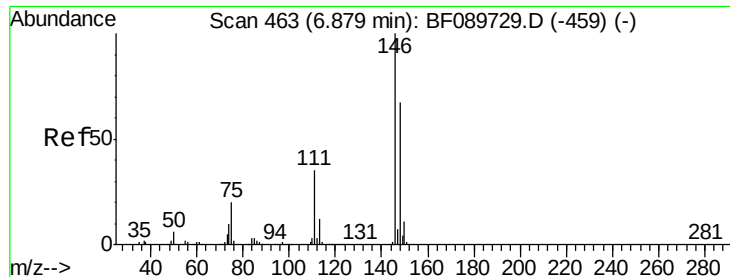


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





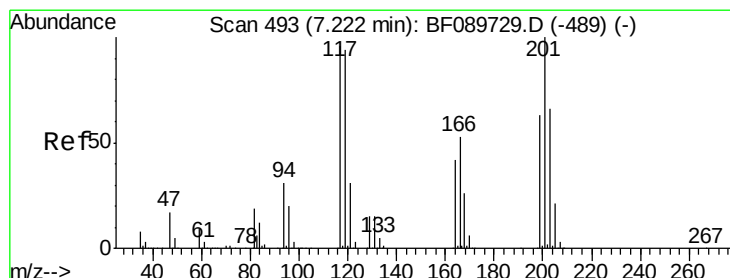
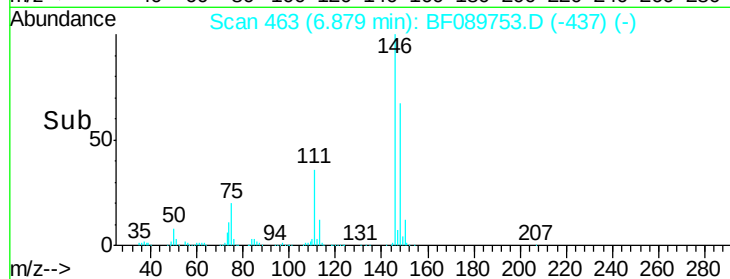
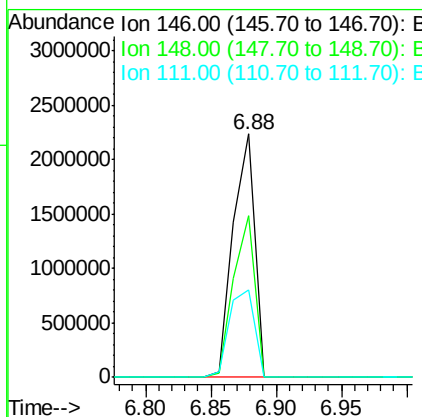
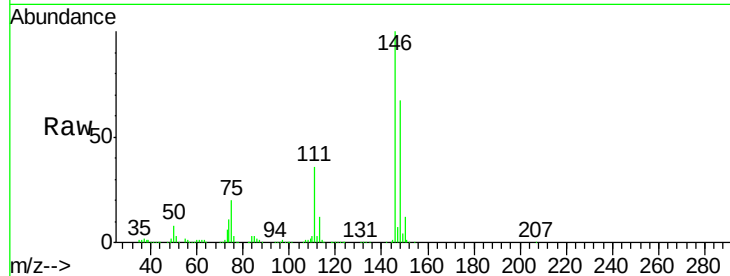
#14  
 1,2-Dichlorobenzene  
 Concen: 53.42 ng  
 RT: 6.88 min Scan# 463  
 Delta R.T. -0.00 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

Instrument :  
 BNA\_F  
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 9536

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 66.7  | 52.2  | 78.2  |
| 111     | 36.1  | 29.8  | 44.6  |

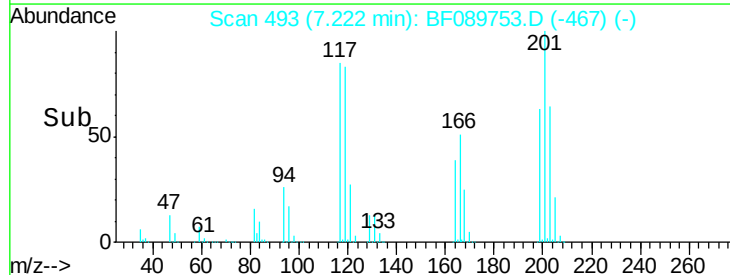
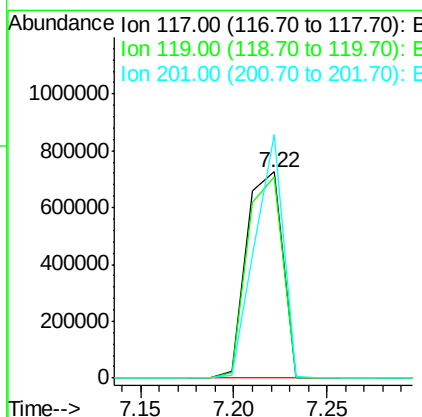
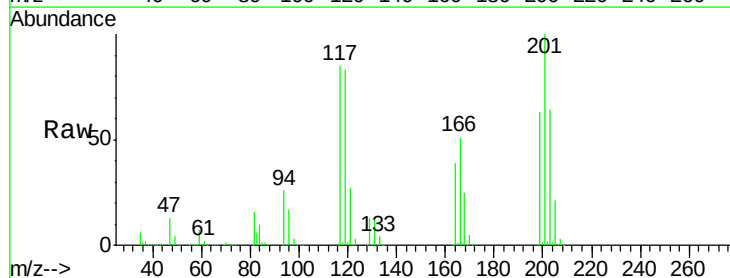
Manual Integrations  
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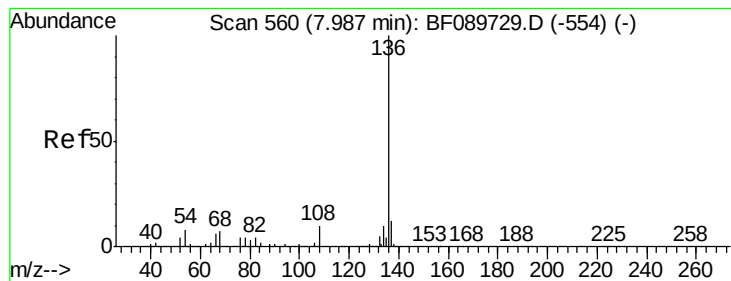
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#18  
 Hexachloroethane  
 Concen: 52.80 ng  
 RT: 7.22 min Scan# 493  
 Delta R.T. 0.00 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 97.8  | 77.1  | 115.7  |
| 201     | 118.2 | 76.9  | 115.3# |





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.99 min Scan# 560

Delta R.T. -0.00 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :

9536

Tot Ion:136 Resp: 2664396

Ion Ratio Lower Upper

136 100

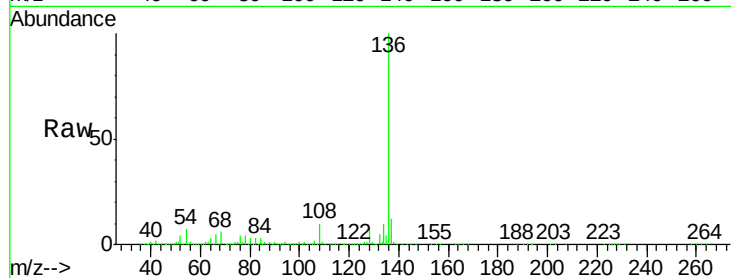
137 11.8 9.2 13.8

54 7.4 7.2 10.8

68 6.4 5.8 8.8

Manual Integrations  
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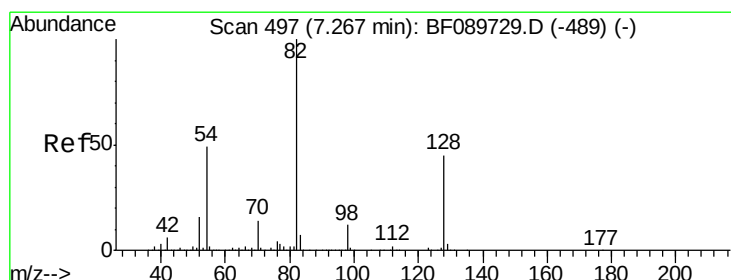
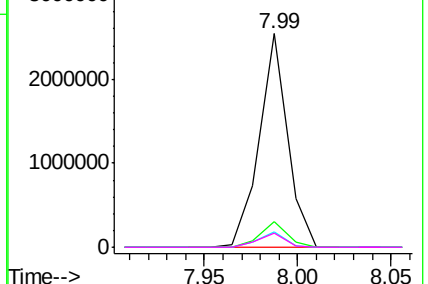
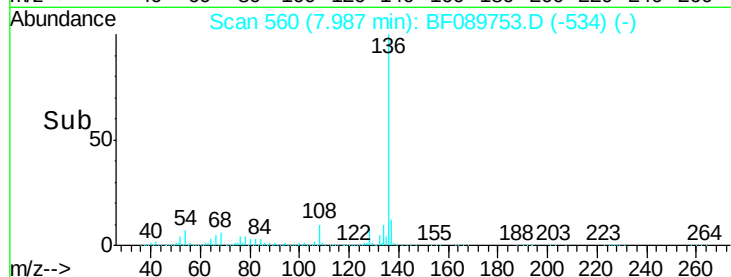


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 82.00 ng

RT: 7.27 min Scan# 497

Delta R.T. 0.00 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

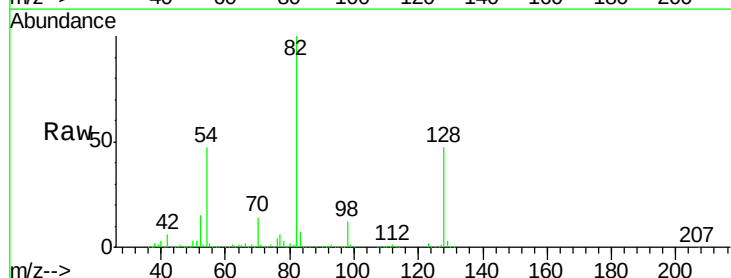
Tgt Ion: 82 Resp: 3577928

Ion Ratio Lower Upper

82 100

128 47.4 34.4 51.6

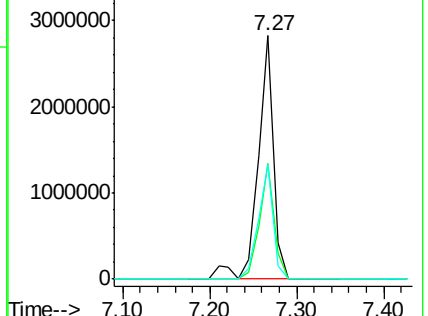
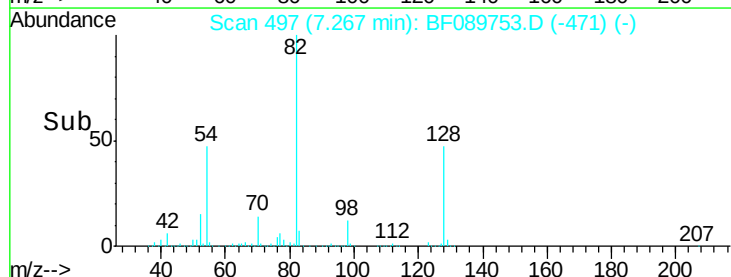
54 47.0 40.3 60.5



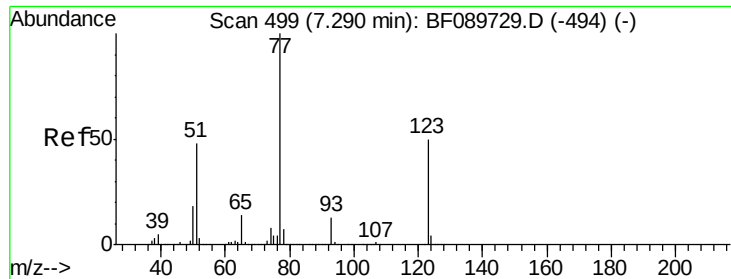
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0







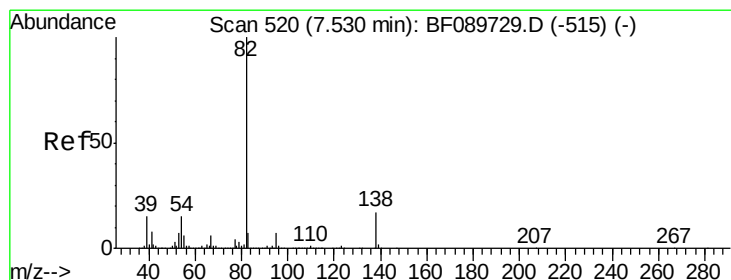
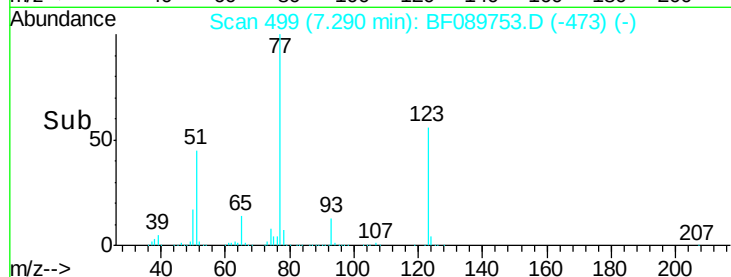
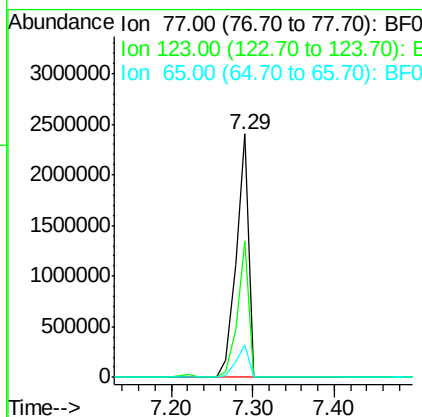
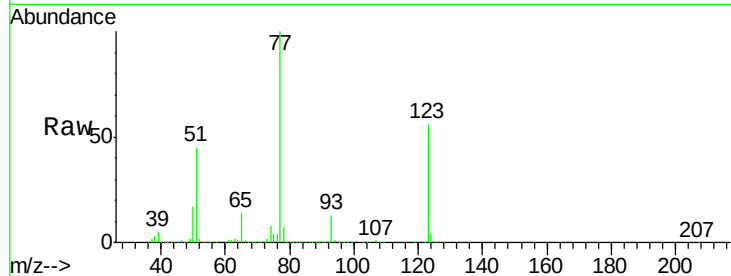
#24  
 Nitrobenzene  
 Concen: 51.73 ng  
 RT: 7.29 min Scan# 499  
 Delta R.T. -0.00 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

Instrument :  
 BNA\_F  
 ClientSampled :  
 9536

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 56.1  | 36.2  | 54.2# |
| 65      | 13.5  | 10.6  | 15.8  |

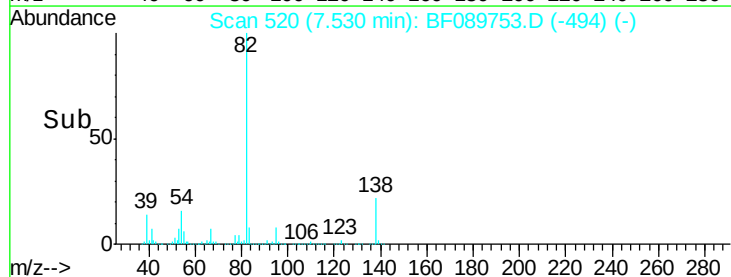
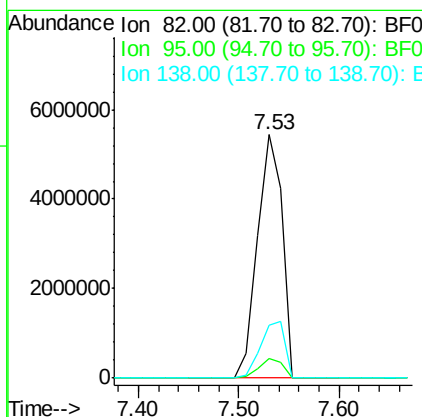
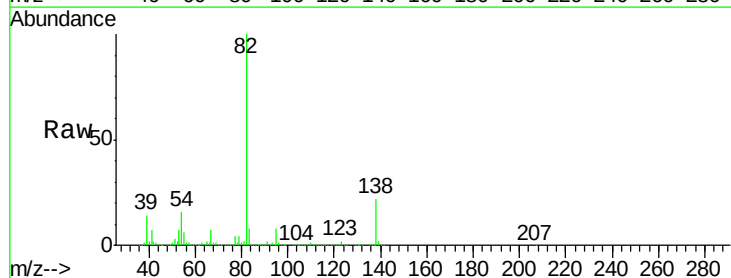
Manual Integrations  
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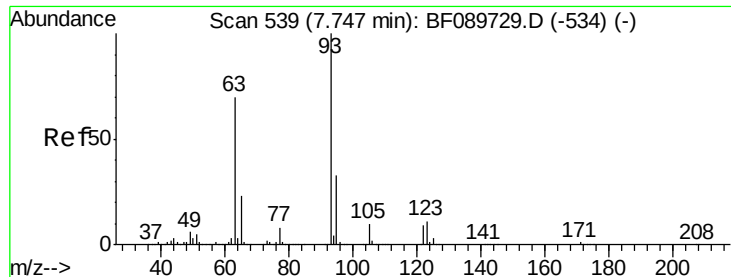
sohil  
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#25  
 Isophorone  
 Concen: 105.25 ng  
 RT: 7.53 min Scan# 520  
 Delta R.T. 0.00 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 8.3   | 5.3   | 7.9#  |
| 138     | 21.9  | 13.0  | 19.4# |





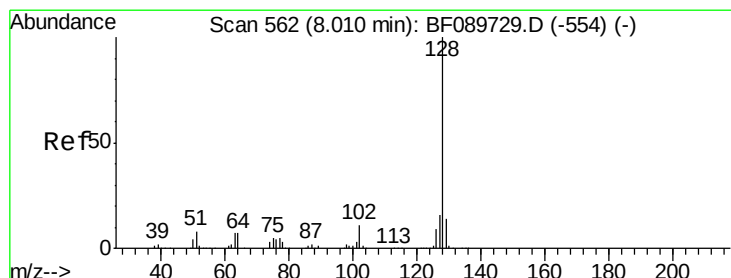
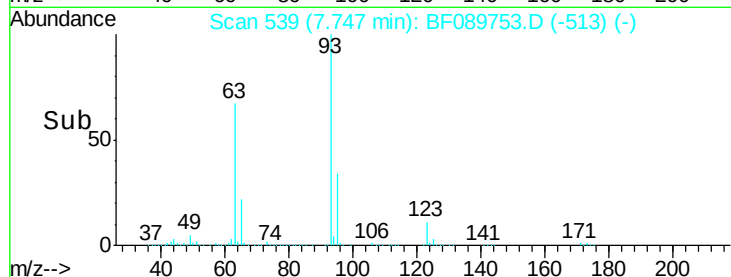
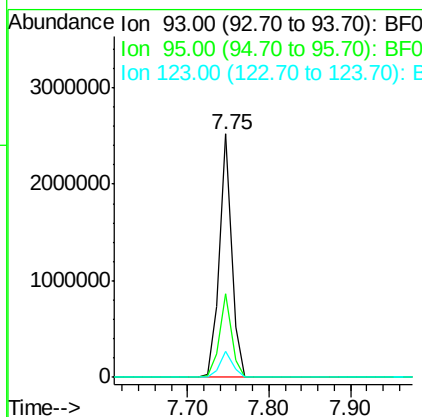
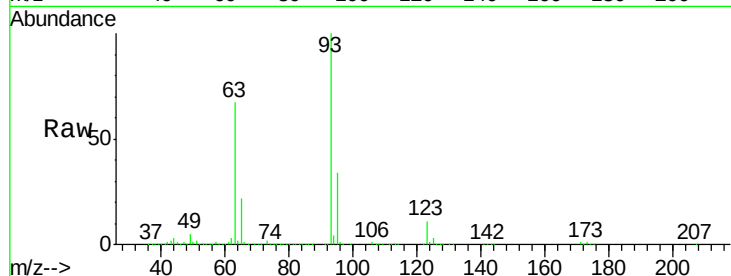
#28  
bis(2-Chloroethoxy)methane  
Concen: 49.62 ng  
RT: 7.75 min Scan# 539  
Delta R.T. 0.00 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Instrument :  
BNA\_F  
ClientSampleId :  
9536

Tot Ion: 93 Resp: 2632526  
Ion Ratio Lower Upper  
93 100  
95 34.3 25.5 38.3  
123 10.7 8.5 12.7

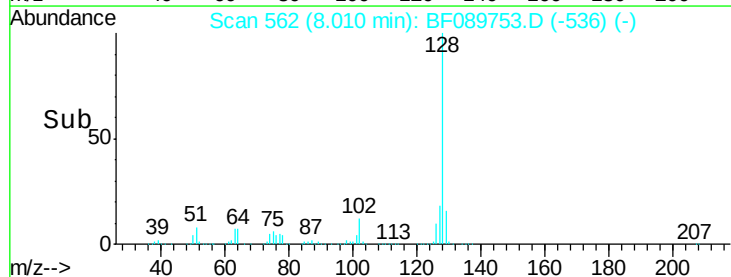
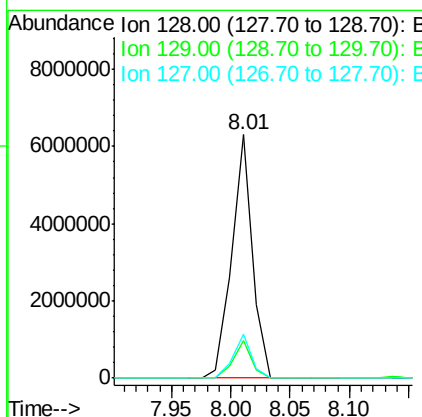
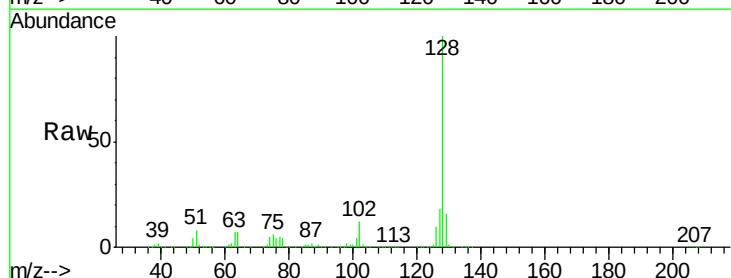
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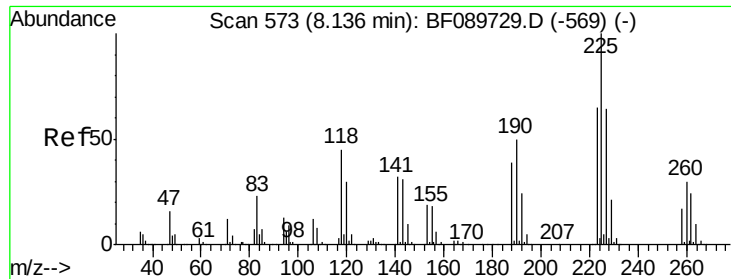
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#31  
Naphthalene  
Concen: 63.15 ng  
RT: 8.01 min Scan# 562  
Delta R.T. 0.00 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Tgt Ion: 128 Resp: 7552361  
Ion Ratio Lower Upper  
128 100  
129 15.6 9.5 14.3#  
127 18.2 11.3 16.9#





#34

Hexachlorobutadiene

Concen: 51.22 ng

RT: 8.14 min Scan# 573

Delta R.T. -0.00 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampled :

9536

Tot Ion:225 Resp: 1052724

Ion Ratio Lower Upper

225 100

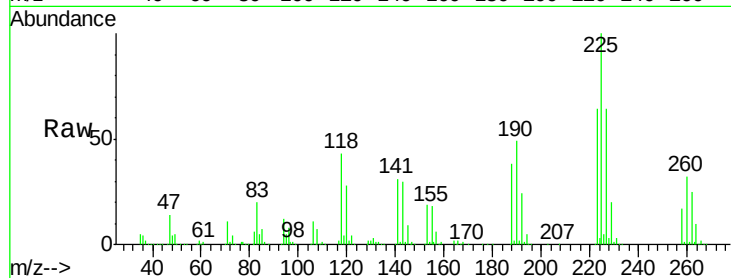
223 64.0 51.0 76.6

227 63.6 49.8 74.6

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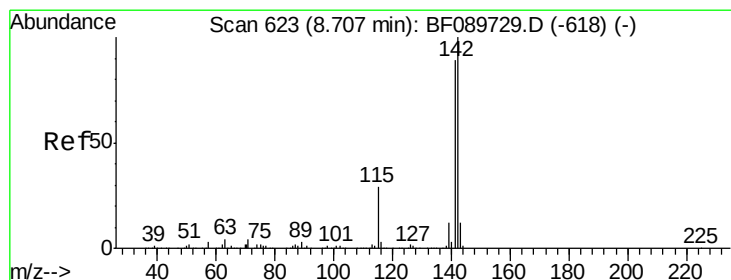
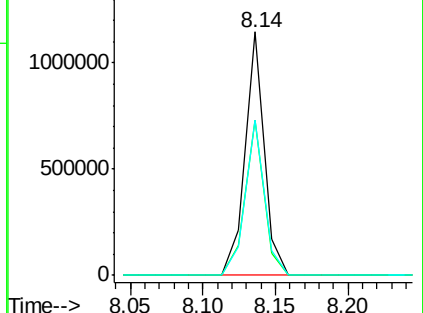
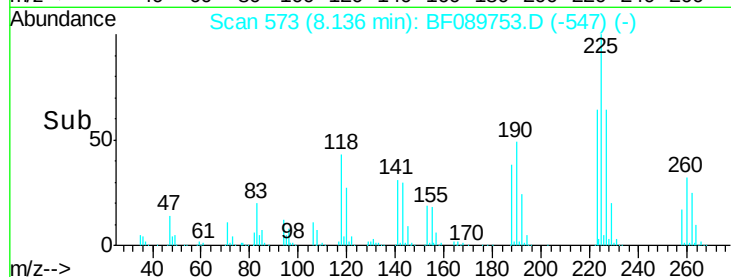
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Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#37

2-Methylnaphthalene

Concen: 45.36 ng

RT: 8.70 min Scan# 622

Delta R.T. -0.01 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

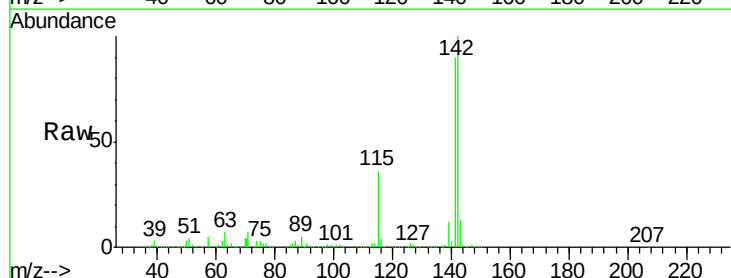
Tgt Ion:142 Resp: 3692453

Ion Ratio Lower Upper

142 100

141 89.6 71.4 107.2

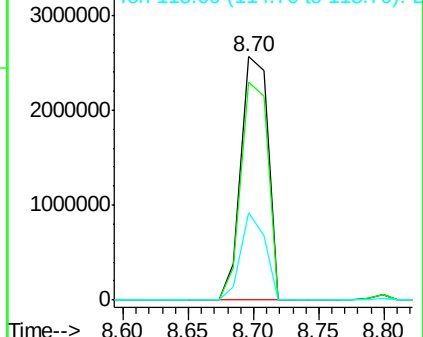
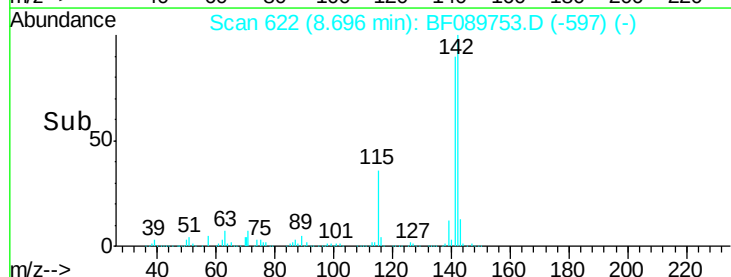
115 35.7 22.7 34.1#

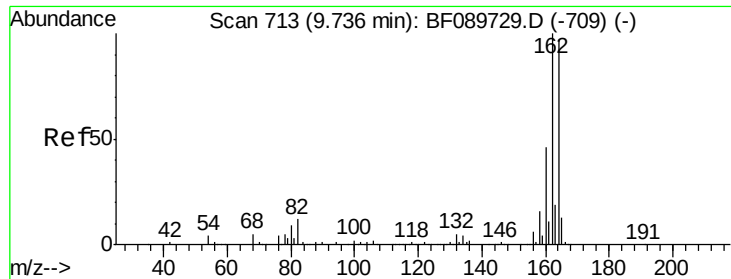


Abundance Ion 142.00 (141.70 to 142.70): E

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: 9.74 min Scan# 713

Delta R.T. 0.00 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampled :

9536

Tot Ion:164 Resp: 1238848

Ion Ratio Lower Upper

164 100

162 102.5 81.4 122.2

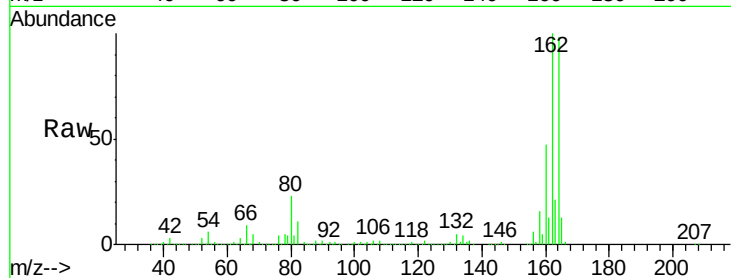
160 47.9 37.8 56.6

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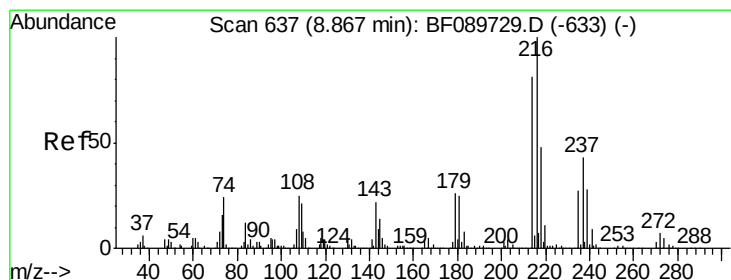
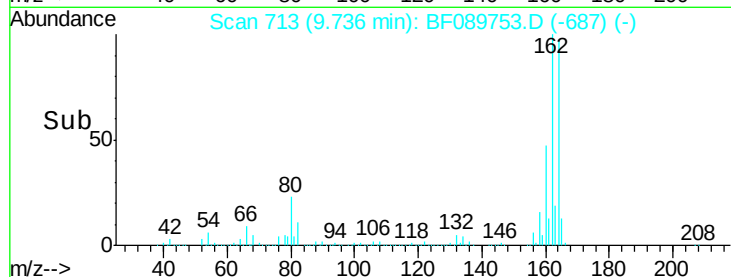
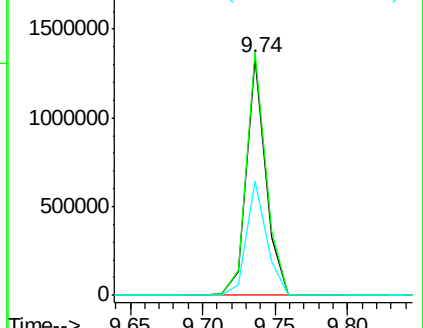
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#40

Hexachlorocyclopentadiene

Concen: 124.31 ng

RT: 8.87 min Scan# 637

Delta R.T. -0.00 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

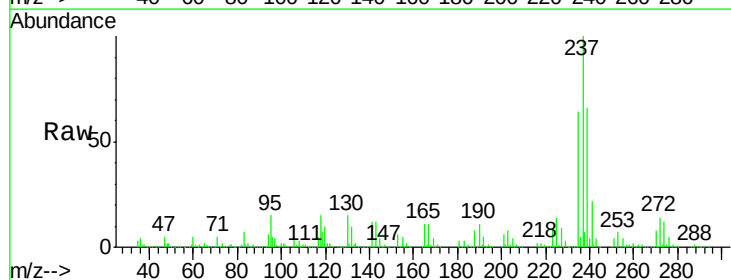
Tgt Ion:237 Resp: 2206376

Ion Ratio Lower Upper

237 100

235 64.3 43.7 83.7

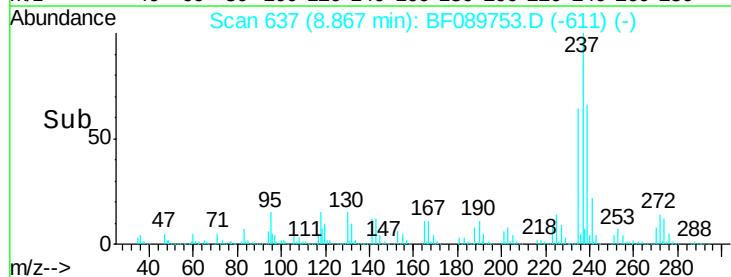
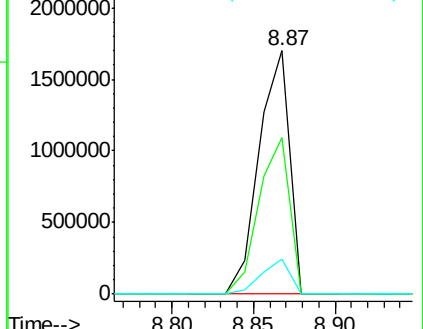
272 14.5 0.0 31.6

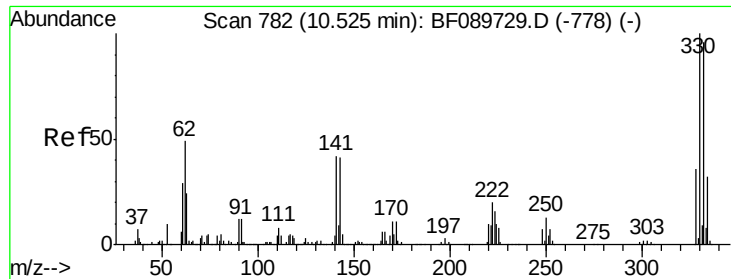


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E





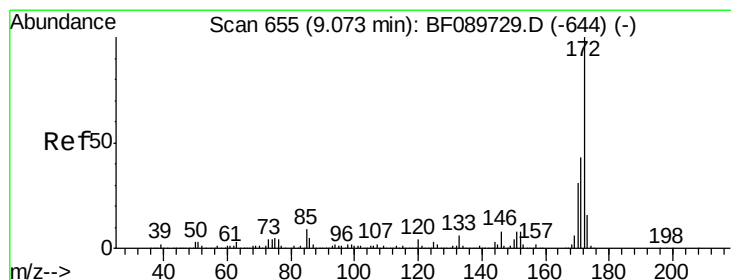
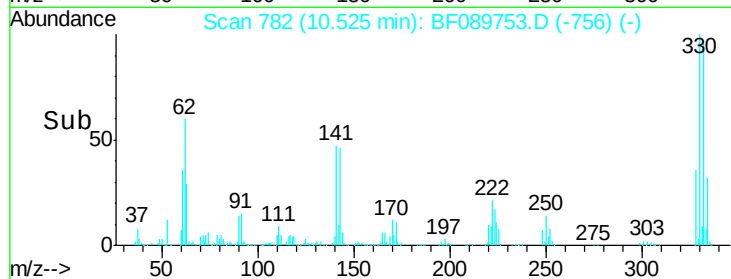
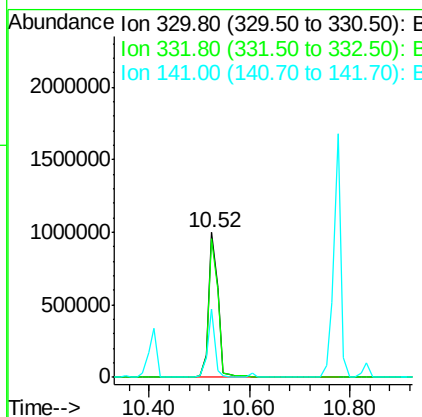
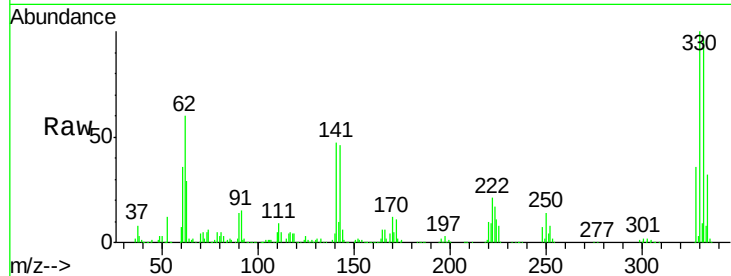
#41  
 2,4,6-Tribromophenol  
 Concen: 107.88 ng  
 RT: 10.52 min Scan# 782  
 Delta R.T. 0.00 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

Instrument :  
 BNA\_F  
 ClientSampled :  
 9536

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.9  | 76.7  | 115.1 |
| 141     | 36.6  | 30.2  | 45.2  |

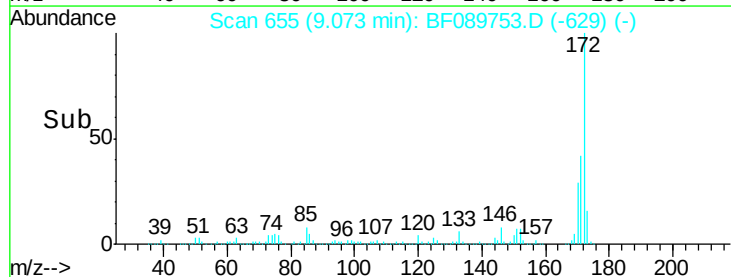
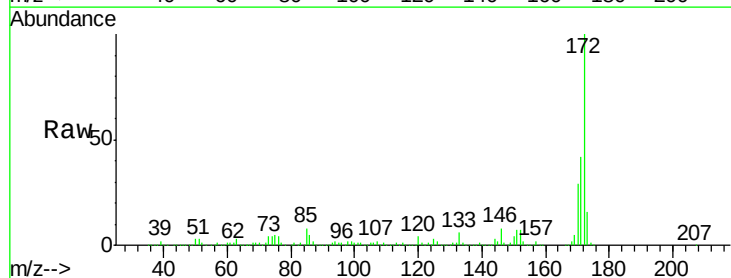
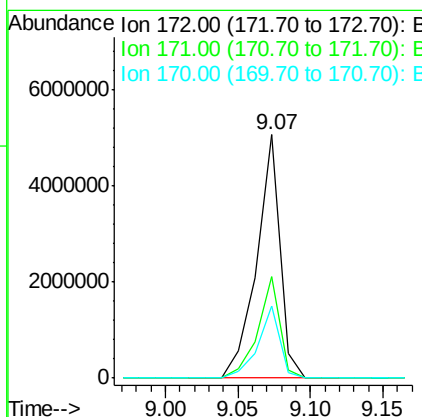
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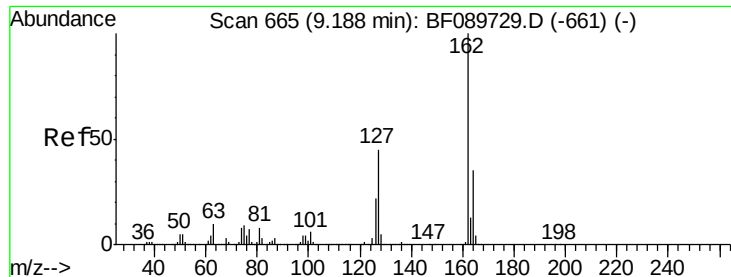
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#44  
 2-Fluorobiphenyl  
 Concen: 73.38 ng  
 RT: 9.07 min Scan# 655  
 Delta R.T. 0.00 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 41.7  | 30.5  | 45.7  |
| 170     | 29.5  | 20.6  | 31.0  |





#46

2-Chloronaphthalene

Concen: 111.02 ng

RT: 9.20 min Scan# 666

Delta R.T. 0.01 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampled :

9536

Tot Ion:162 Resp: 8535554

Ion Ratio Lower Upper

162 100

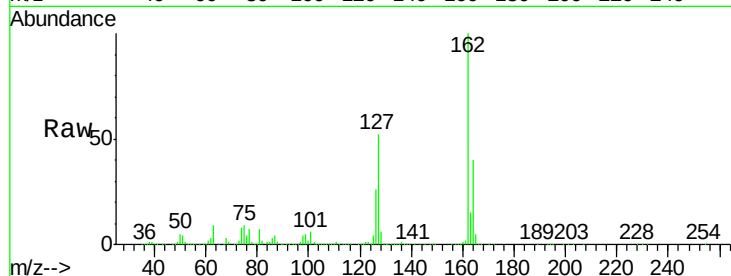
127 51.8 35.5 53.3

164 40.3 26.6 40.0#

Manual Integrations  
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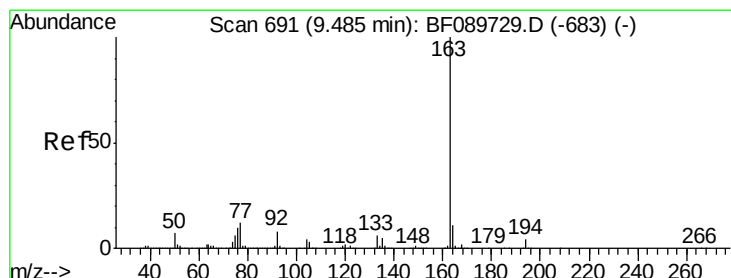
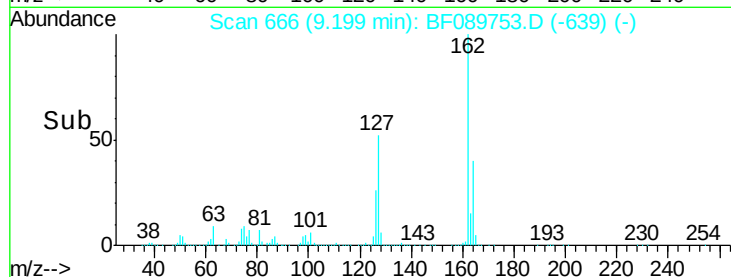
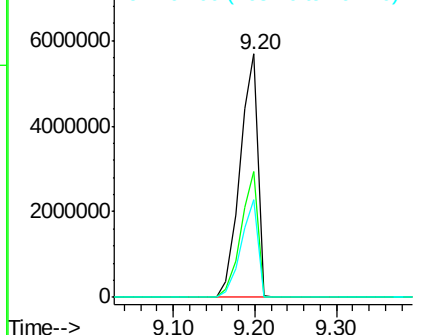
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Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E



#49

Dimethylphthalate

Concen: 84.92 ng

RT: 9.47 min Scan# 690

Delta R.T. -0.01 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

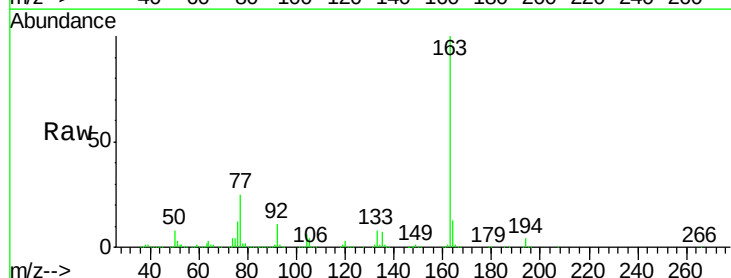
Tgt Ion:163 Resp: 7612578

Ion Ratio Lower Upper

163 100

194 3.8 2.6 3.8

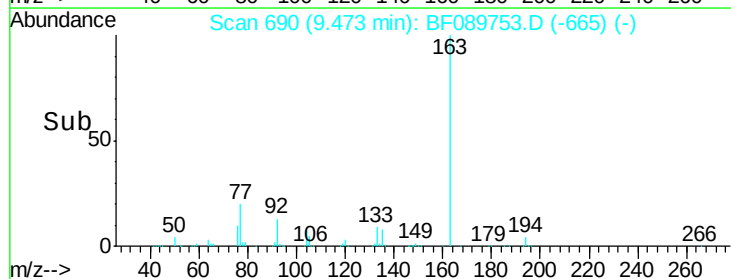
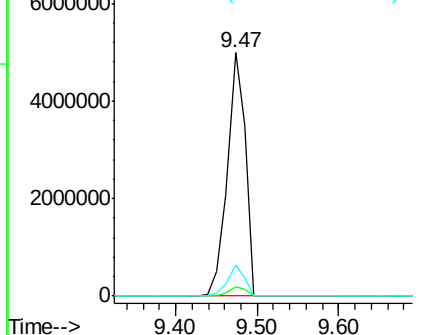
164 12.6 8.6 12.8

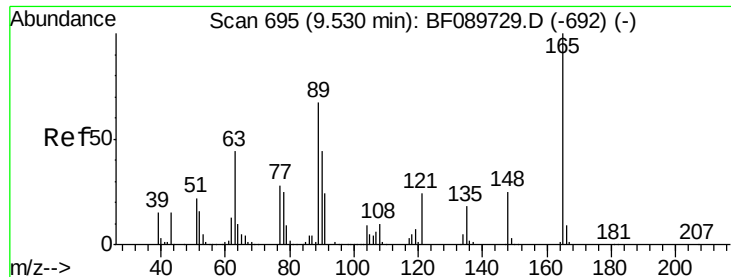


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





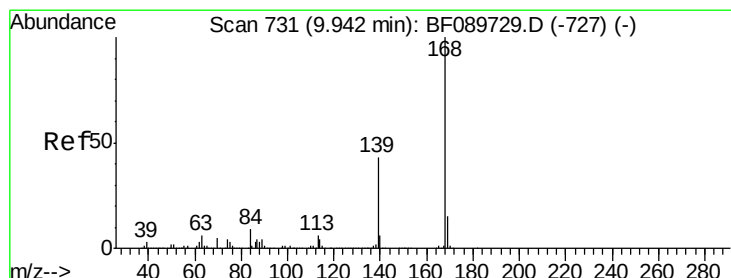
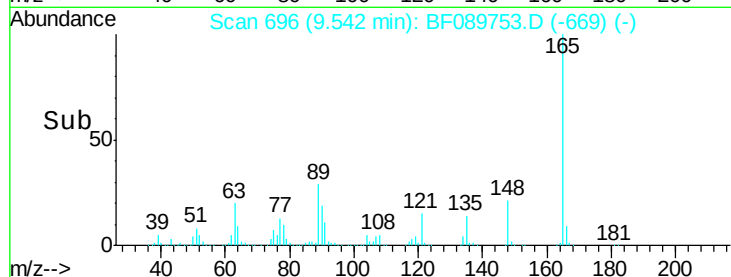
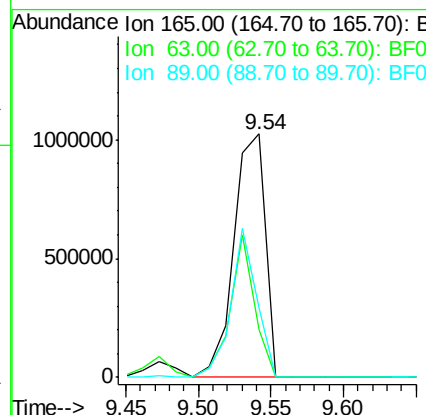
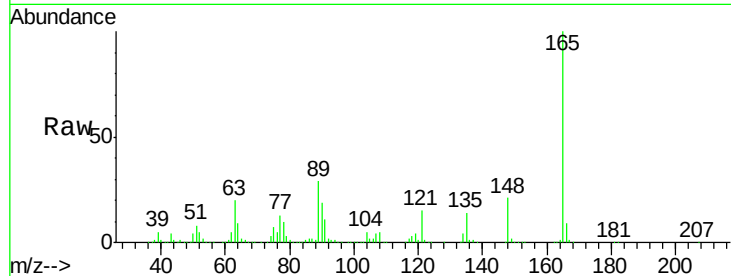
#50  
 2,6-Dinitrotoluene  
 Concen: 75.52 ng  
 RT: 9.54 min Scan# 696  
 Delta R.T. 0.01 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

Instrument :  
 BNA\_F  
 ClientSampled :  
 9536

| Tot Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 165     | 100  |       | 1532143 |       |       |
| 63      | 19.6 | 41.7  | 62.5#   |       |       |
| 89      | 28.7 | 44.6  | 67.0#   |       |       |

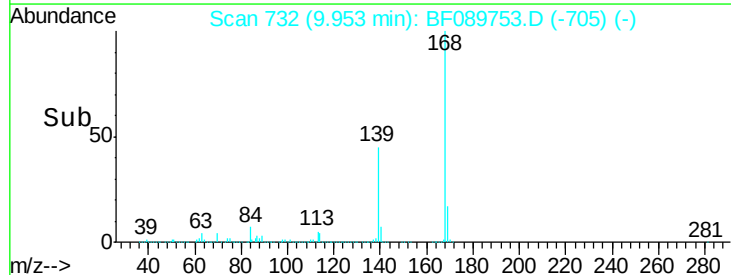
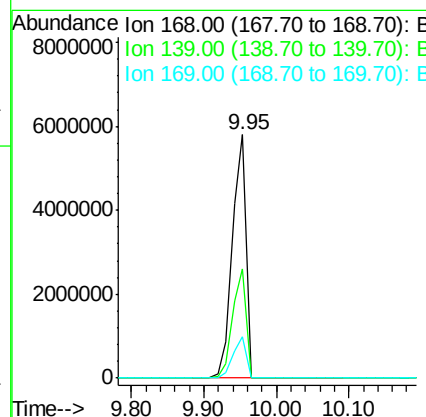
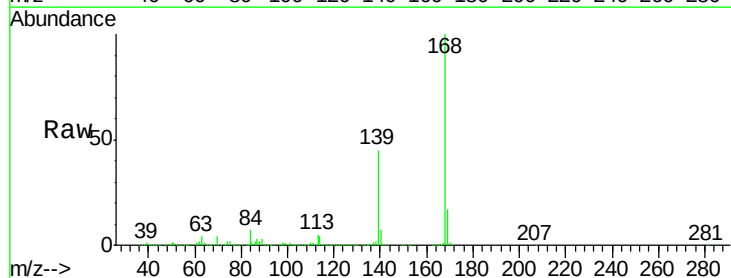
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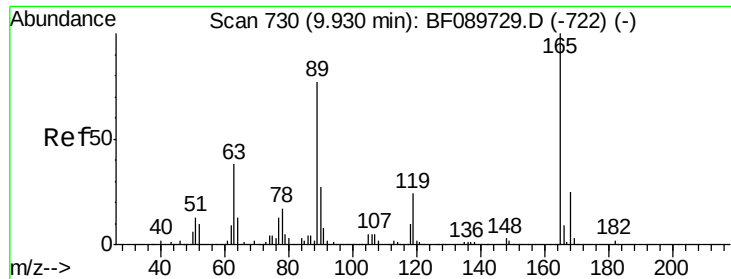
sohil  
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#54  
 Dibenzofuran  
 Concen: 76.34 ng  
 RT: 9.95 min Scan# 732  
 Delta R.T. 0.01 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 168     | 100  |       | 7502925 |       |       |
| 139     | 45.1 | 34.6  | 52.0    |       |       |
| 169     | 16.8 | 11.5  | 17.3    |       |       |





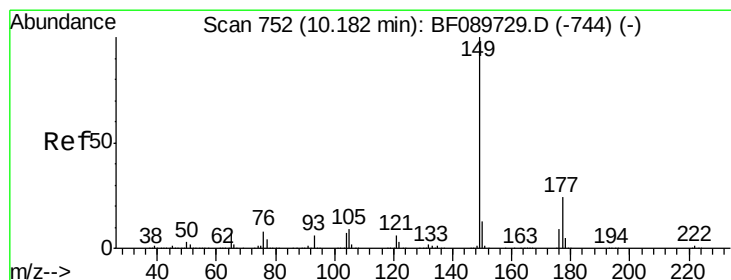
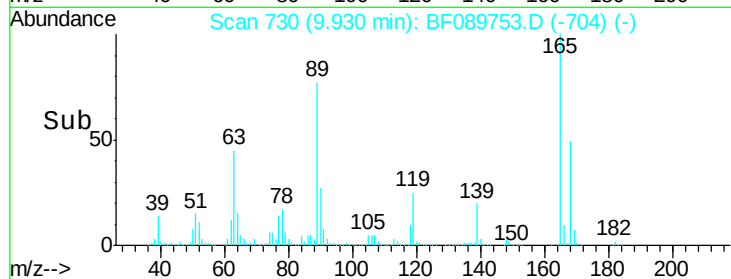
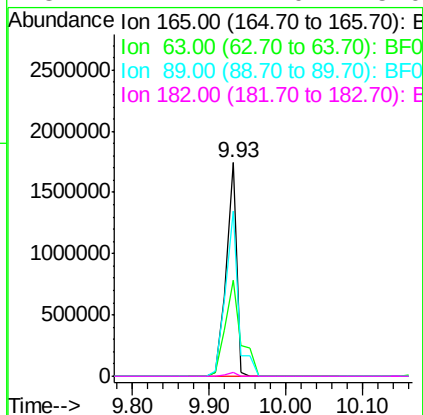
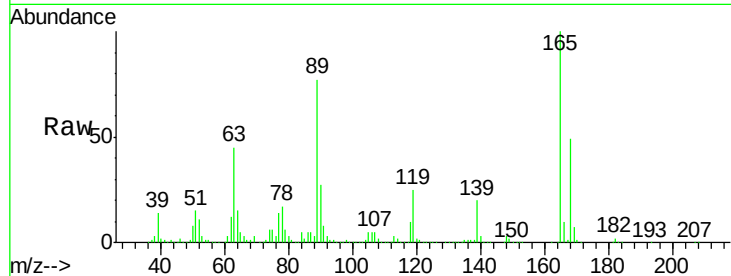
#56  
 2,4-Dinitrotoluene  
 Concen: 64.63 ng  
 RT: 9.93 min Scan# 730  
 Delta R.T. -0.00 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

Instrument :  
 BNA\_F  
 ClientSampled :  
 9536

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 45.0  | 23.7  | 35.5# |
| 89      | 77.4  | 44.0  | 66.0# |
| 182     | 2.1   | 2.0   | 3.0   |

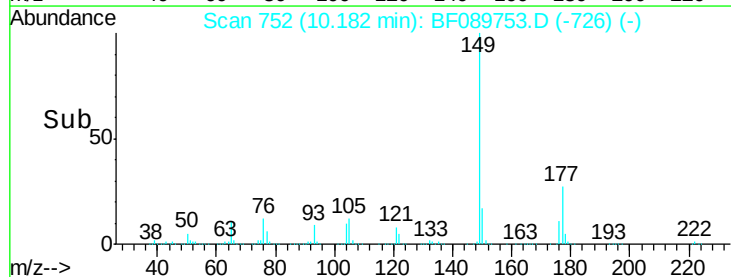
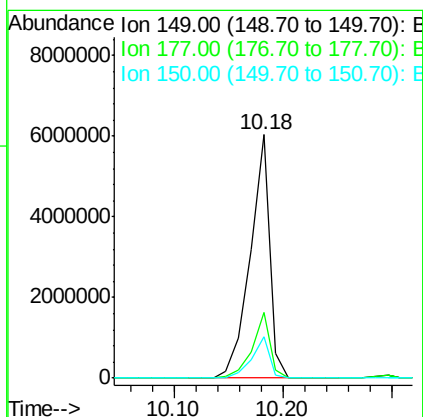
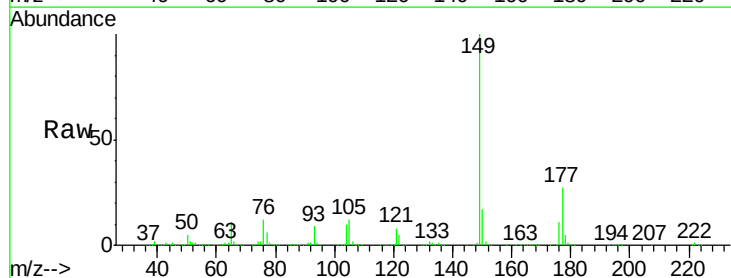
Manual Integrations  
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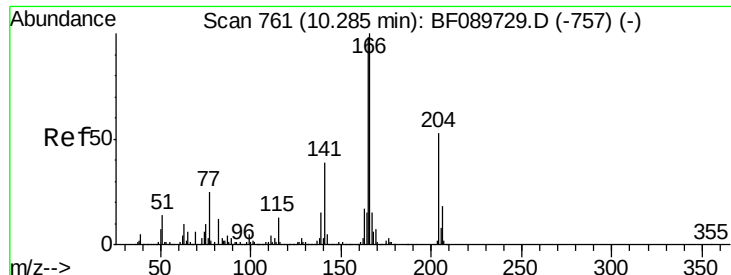


#59  
 Diethylphthalate  
 Concen: 83.60 ng  
 RT: 10.18 min Scan# 752  
 Delta R.T. -0.00 min  
 Lab File: BF089753.D  
 Acq: 17 Aug 2016 9:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 26.9  | 16.6  | 25.0# |
| 150     | 16.9  | 10.5  | 15.7# |







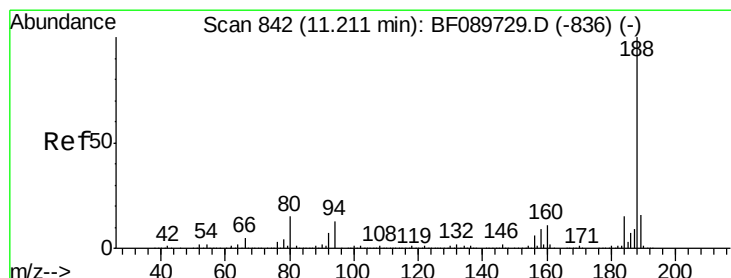
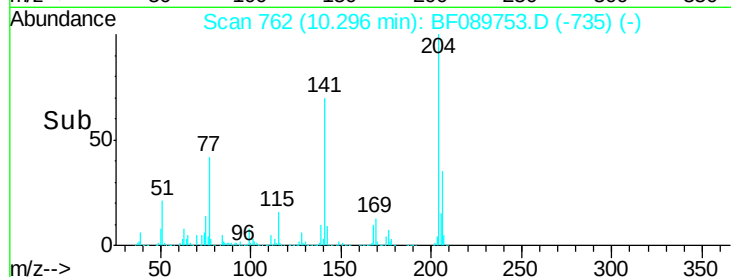
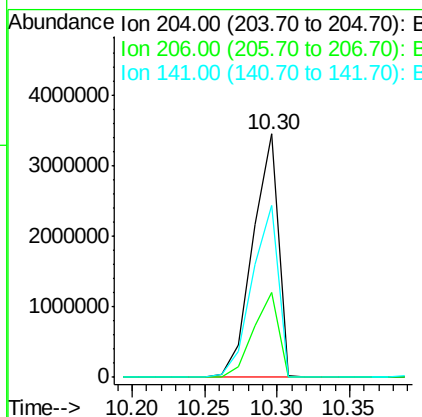
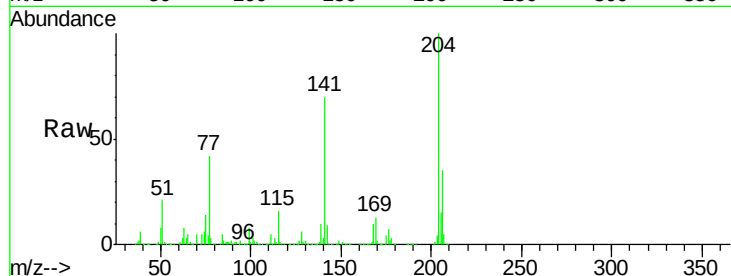
#60  
4-Chlorophenyl-phenylether  
Concen: 107.59 ng  
RT: 10.30 min Scan# 762  
Delta R.T. 0.01 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Instrument :  
BNA\_F  
ClientSampled :  
9536

Tot Ion:204 Resp: 4194628  
Ion Ratio Lower Upper  
204 100  
206 34.9 26.5 39.7  
141 70.4 54.1 81.1

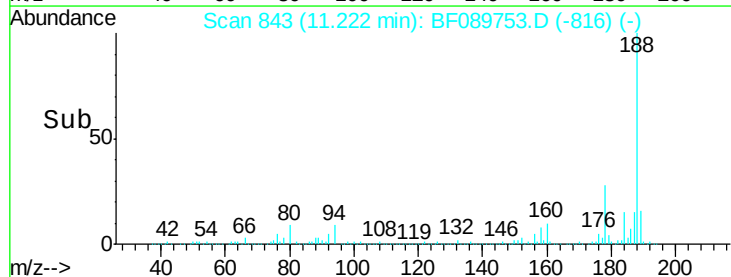
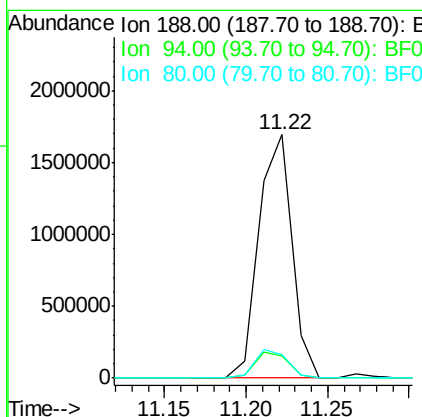
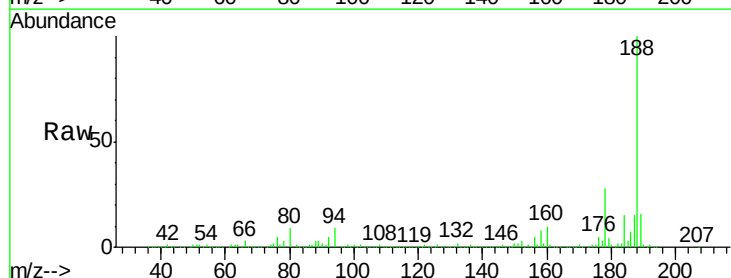
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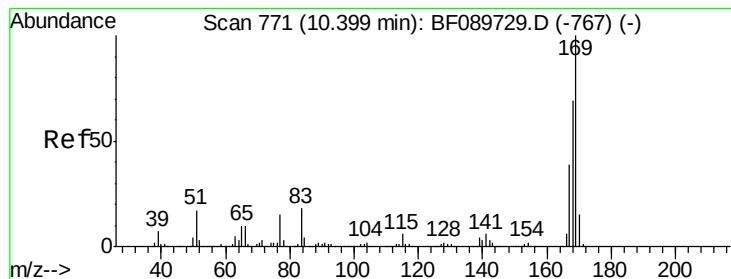
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.22 min Scan# 843  
Delta R.T. 0.01 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Tgt Ion:188 Resp: 2399783  
Ion Ratio Lower Upper  
188 100  
94 9.2 10.2 15.2#  
80 9.4 10.9 16.3#





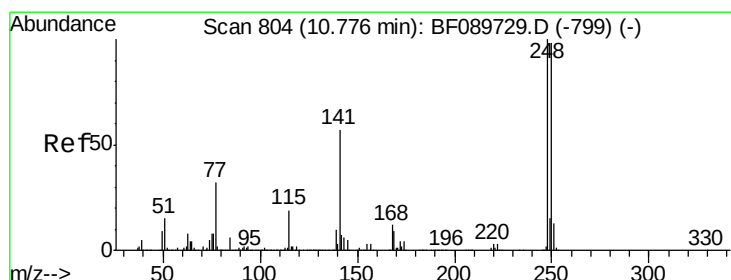
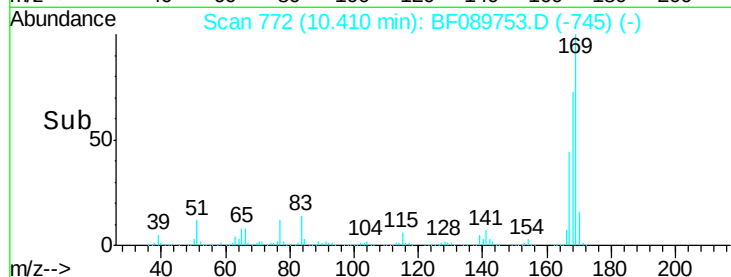
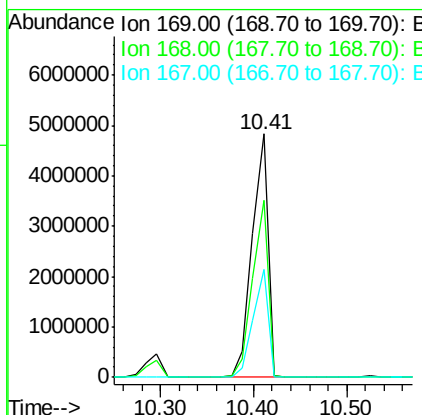
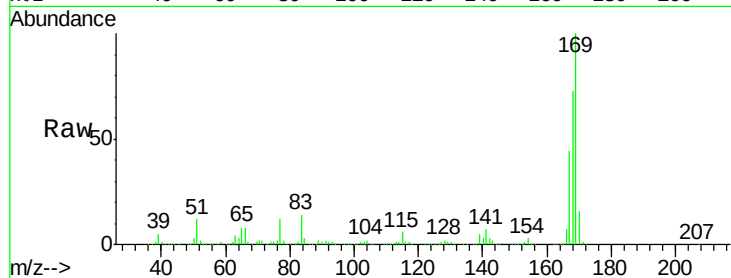
#65  
n-Nitrosodiphenylamine  
Concen: 75.75 ng  
RT: 10.41 min Scan# 772  
Delta R.T. 0.01 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Instrument :  
BNA\_F  
ClientSampleId :  
9536

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 72.8  | 54.6  | 82.0  |
| 167     | 44.3  | 30.6  | 45.8  |

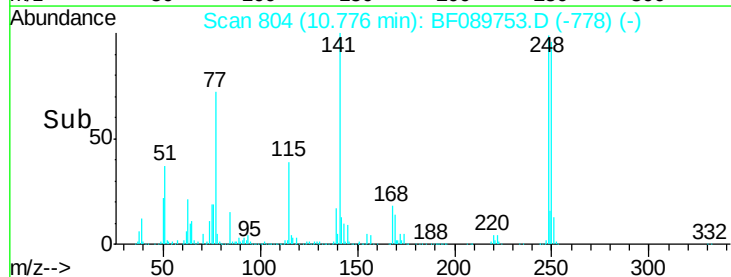
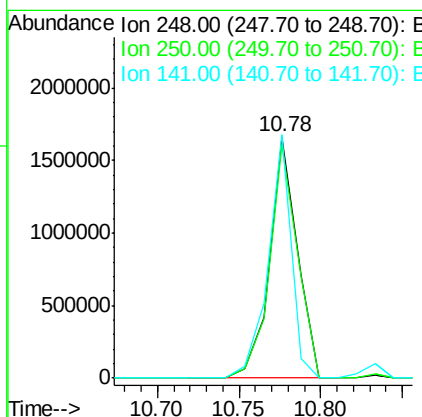
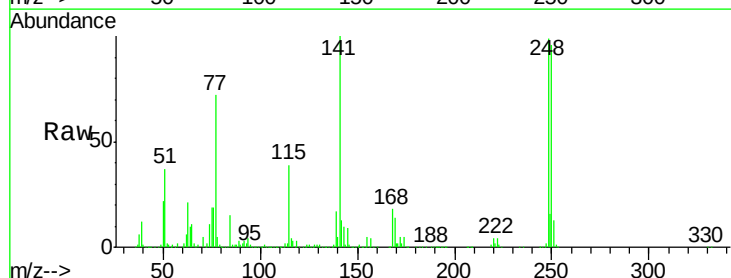
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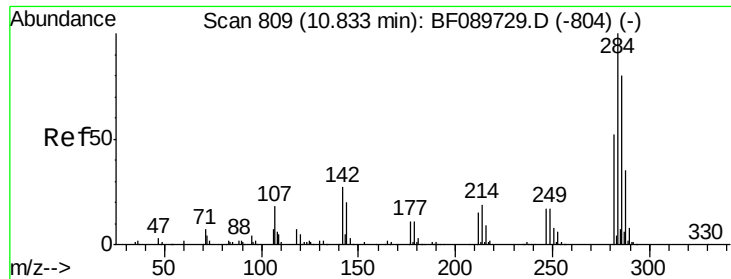
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#66  
4-Bromophenyl-phenylether  
Concen: 78.75 ng  
RT: 10.78 min Scan# 804  
Delta R.T. -0.00 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 96.5  | 78.6  | 117.8 |
| 141     | 100.8 | 31.4  | 47.2  |





#67

Hexachlorobenzene

Concen: 46.56 ng

RT: 10.83 min Scan# 809

Delta R.T. -0.00 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampled :

9536

Tot Ion:284 Resp: 1286204

Ion Ratio Lower Upper

284 100

142 45.4 17.4 26.2#

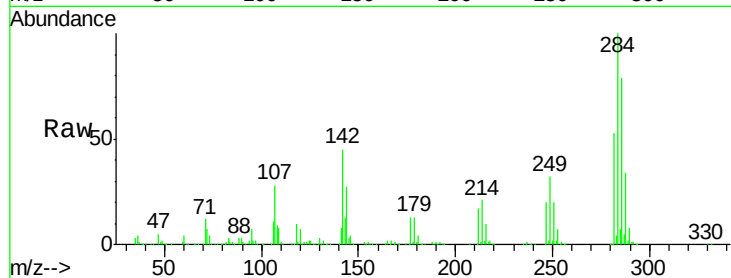
249 31.6 22.8 34.2

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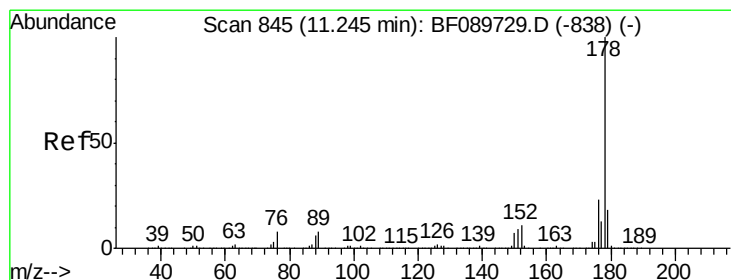
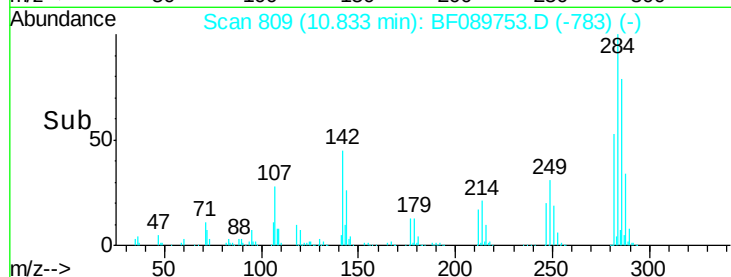
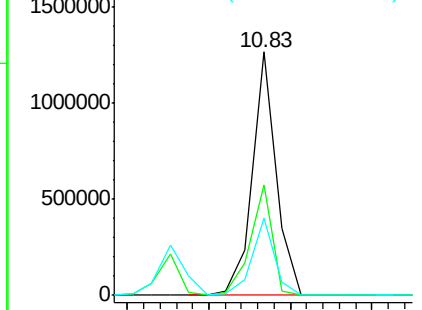
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Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#70

Phenanthrene

Concen: 91.14 ng

RT: 11.26 min Scan# 846

Delta R.T. 0.01 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

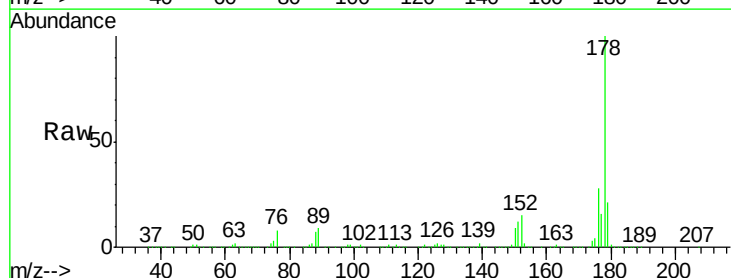
Tgt Ion:178 Resp:10749921

Ion Ratio Lower Upper

178 100

176 28.3 16.4 24.6#

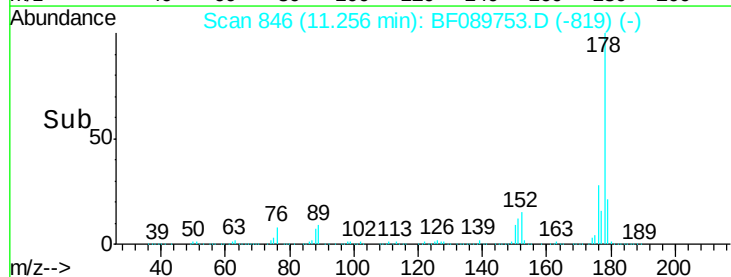
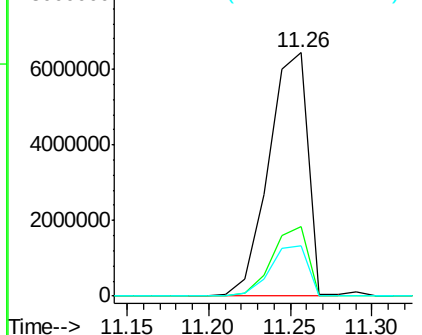
179 20.7 12.5 18.7#

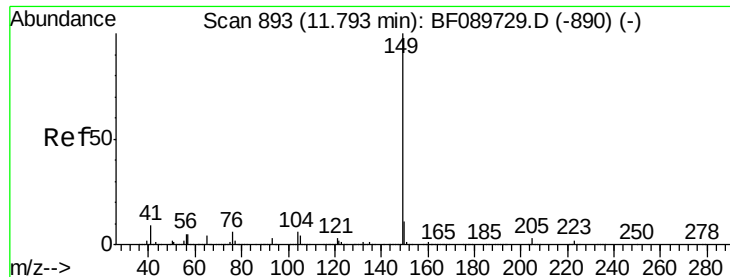


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Di-n-butylphthalate

Concen: 63.79 ng

RT: 11.80 min Scan# 894

Delta R.T. 0.01 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampled :

9536

Tot Ion:149 Resp: 9060081

Ion Ratio Lower Upper

149 100

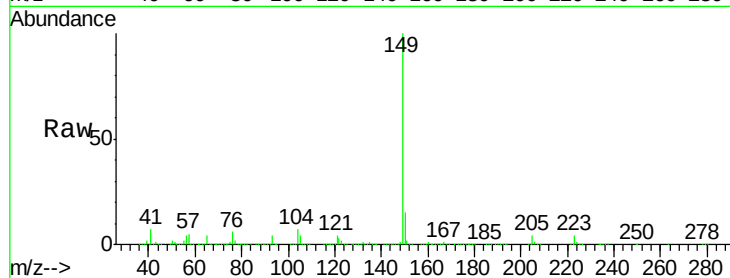
150 14.5 7.9 11.9#

104 7.3 4.3 6.5#

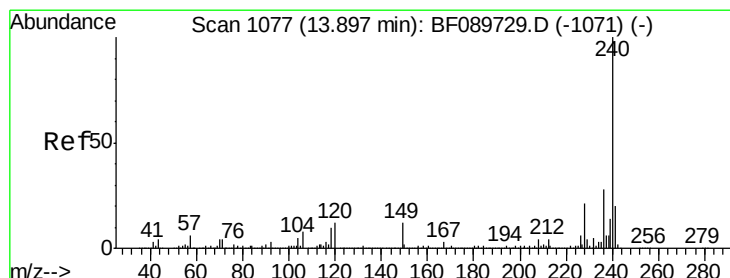
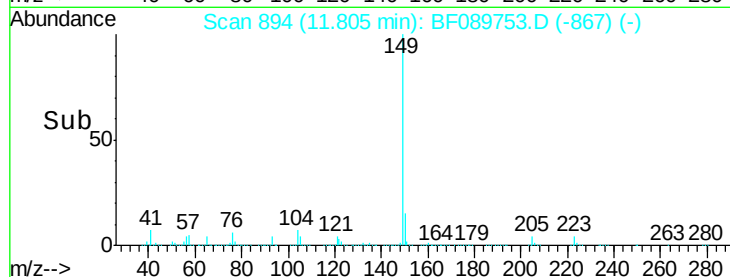
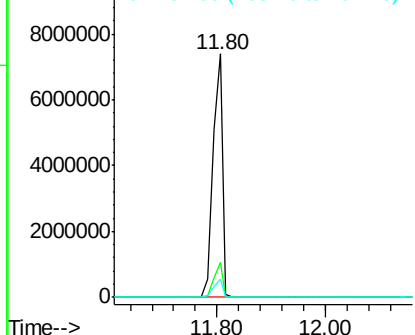
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Abundance Ion 149.00 (148.70 to 149.70): E  
1e+07 Ion 150.00 (149.70 to 150.70): E  
Ion 104.00 (103.70 to 104.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.92 min Scan# 1079

Delta R.T. 0.02 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

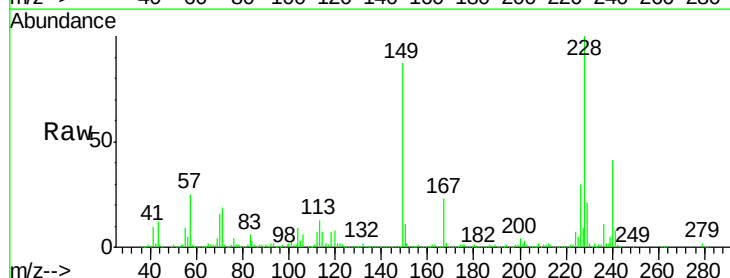
Tgt Ion:240 Resp: 1360216

Ion Ratio Lower Upper

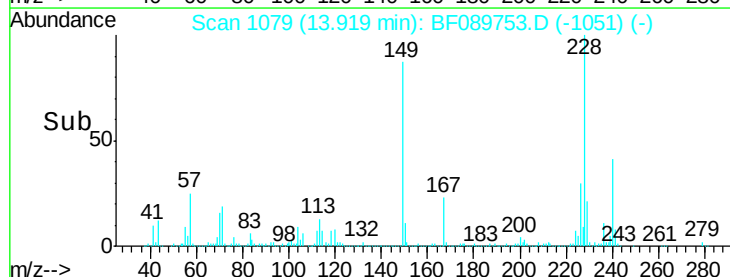
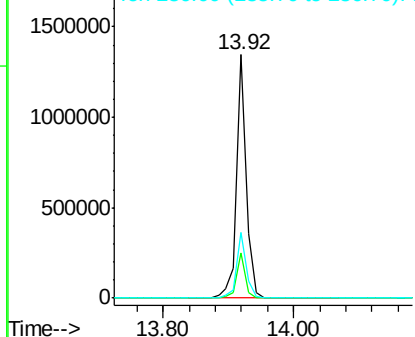
240 100

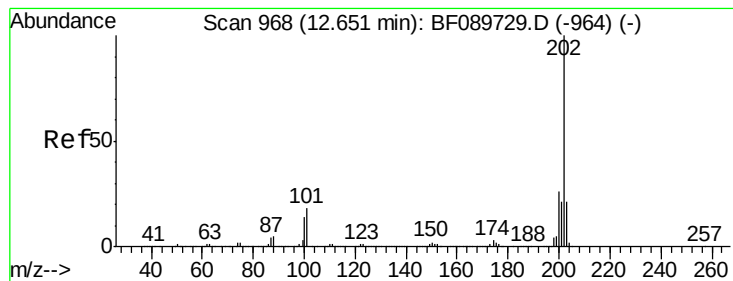
120 18.6 8.3 12.5#

236 26.8 21.3 31.9



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 133.32 ng

RT: 12.66 min Scan# 969

Delta R.T. 0.01 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampleId :

9536

Tot Ion:202 Resp:11867572

Ion Ratio Lower Upper

202 100

200 30.6 17.8 26.6#

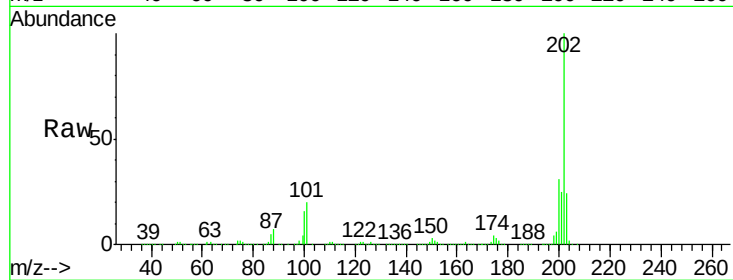
203 23.6 14.2 21.4#

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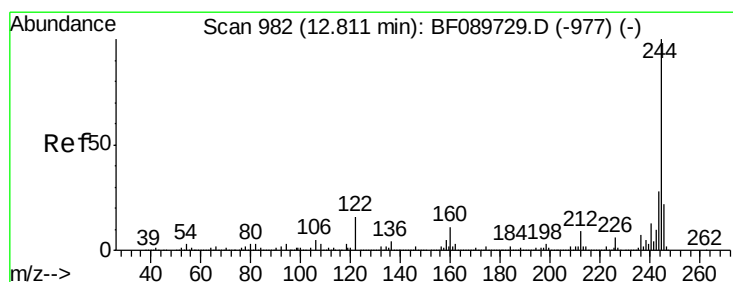
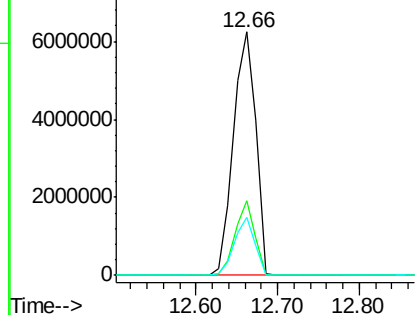
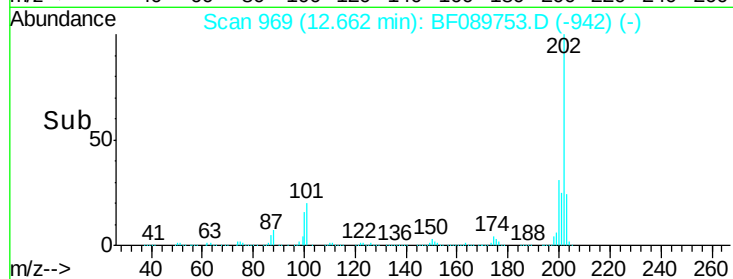
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 110.85 ng

RT: 12.81 min Scan# 982

Delta R.T. 0.00 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

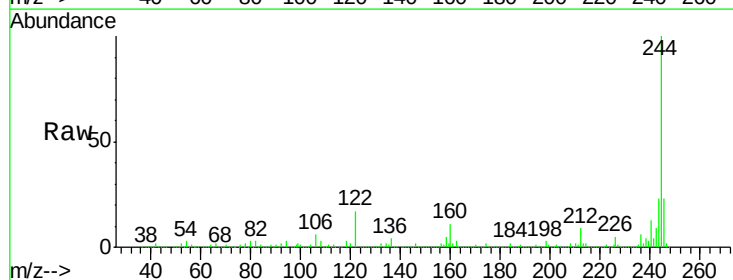
Tgt Ion:244 Resp: 5047190

Ion Ratio Lower Upper

244 100

212 9.3 6.3 9.5

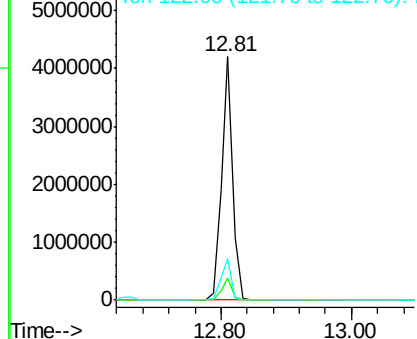
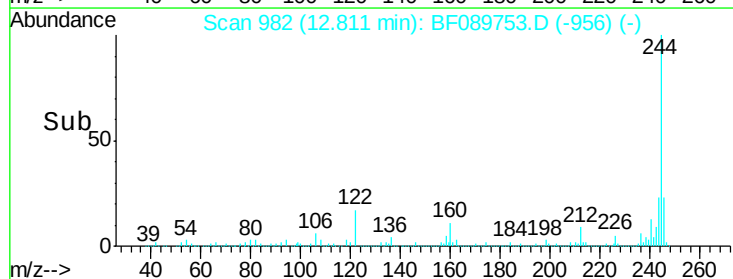
122 17.0 12.0 18.0

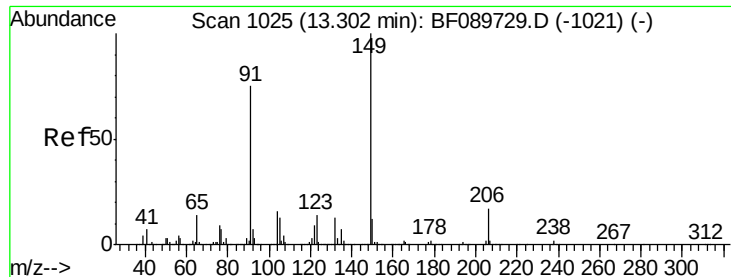


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#79

Butylbenzylphthalate

Concen: 164.75 ng

RT: 13.33 min Scan# 1027

Delta R.T. 0.02 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampled :

9536

Tot Ion:149 Resp: 7356870

Ion Ratio Lower Upper

149 100

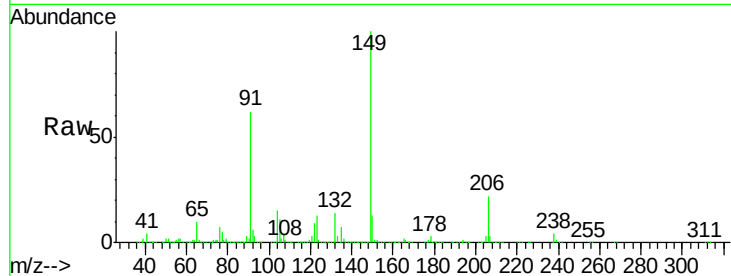
91 62.2 50.7 76.1

206 22.2 15.5 23.3

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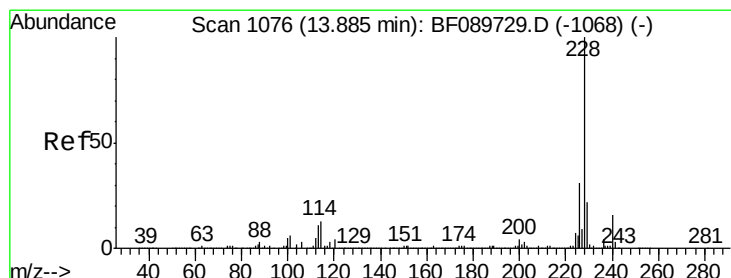
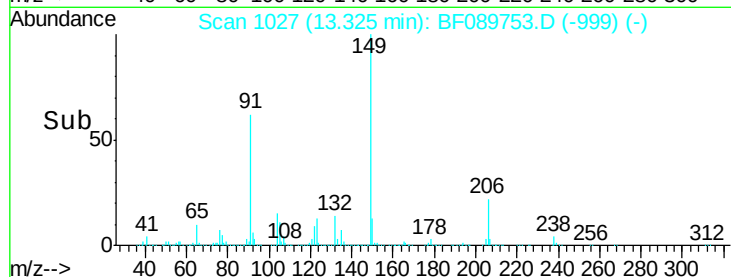
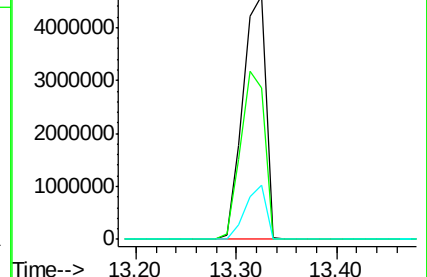
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E



#80

Benzo(a)anthracene

Concen: 155.80 ng

RT: 13.91 min Scan# 1078

Delta R.T. 0.02 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Tgt Ion:228 Resp:12311998

Ion Ratio Lower Upper

228 100

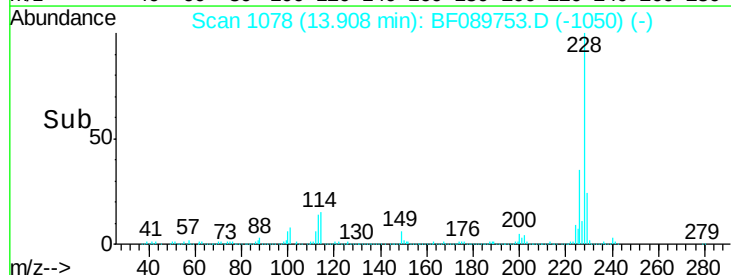
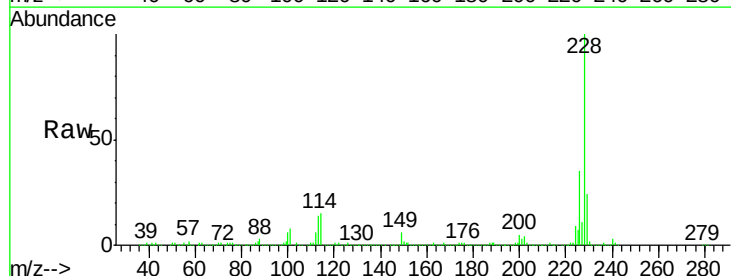
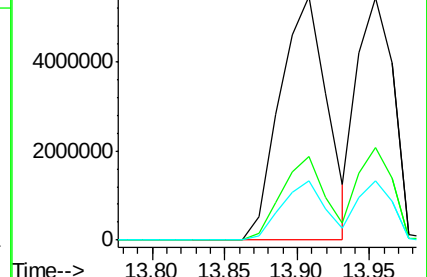
226 34.6 23.2 34.8

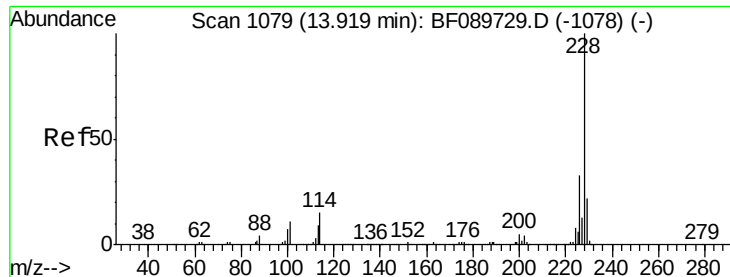
229 24.3 16.2 24.4

Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 133.09 ng/mL

RT: 13.95 min Scan# 1082

Delta R.T. 0.03 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampled :

9536

Tot Ion:228 Resp: 9466460

Ion Ratio Lower Upper

228 100

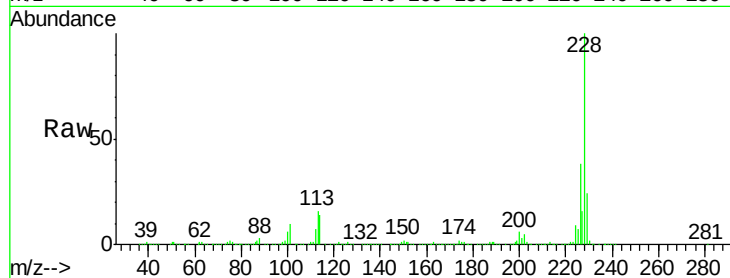
226 38.1 25.4 38.0#

229 24.2 16.5 24.7

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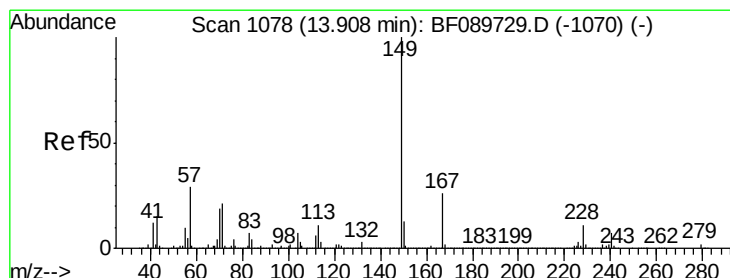
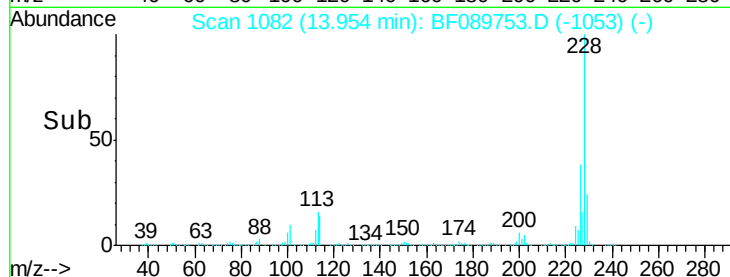
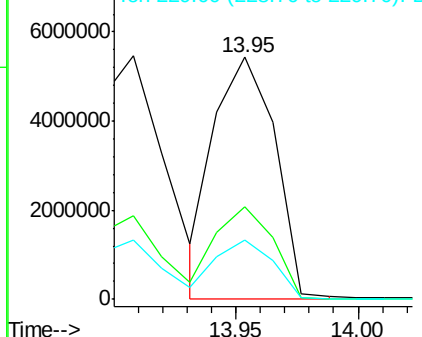
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 55.63 ng

RT: 13.92 min Scan# 1079

Delta R.T. 0.01 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

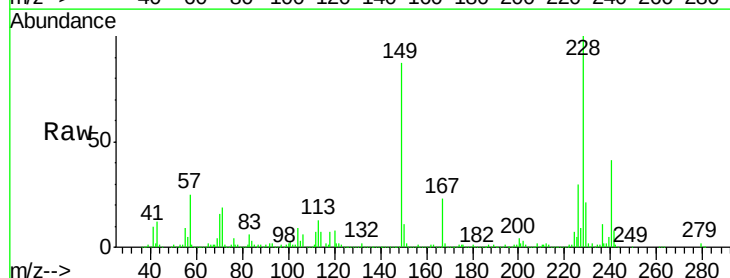
Tgt Ion:149 Resp: 3287683

Ion Ratio Lower Upper

149 100

167 26.3 21.2 31.8

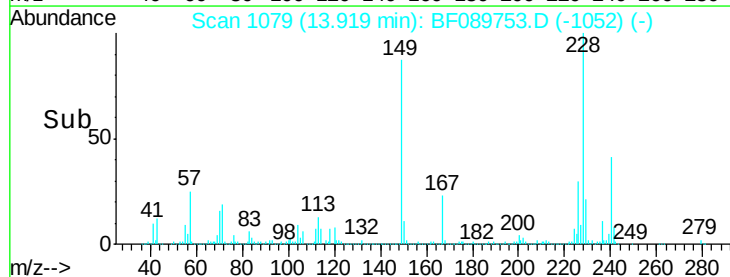
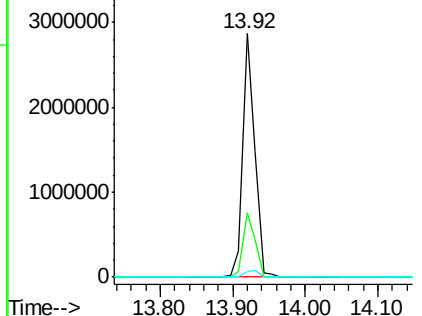
279 2.0 2.9 4.3#

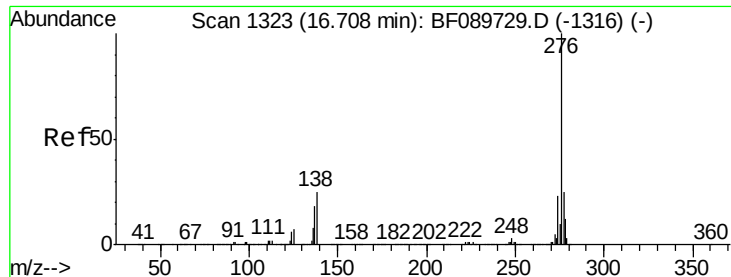


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





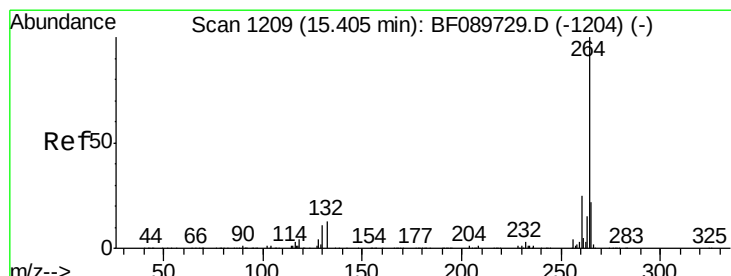
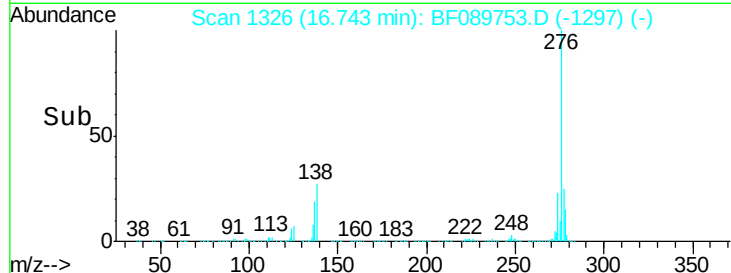
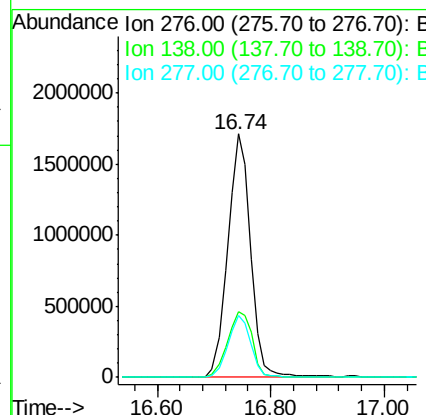
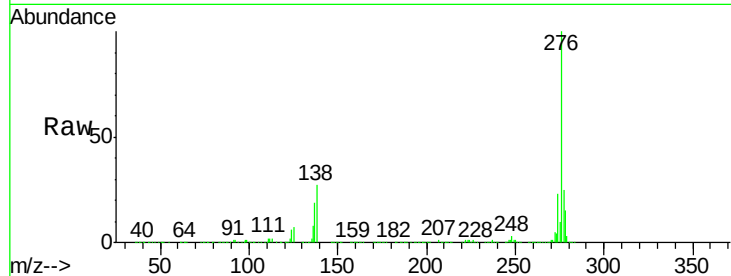
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 79.45 ng  
RT: 16.74 min Scan# 1326  
Delta R.T. 0.03 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Instrument :  
BNA\_F  
ClientSampleId :  
9536

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.4  | 24.6  | 36.8  |
| 277     | 25.6  | 20.4  | 30.6  |

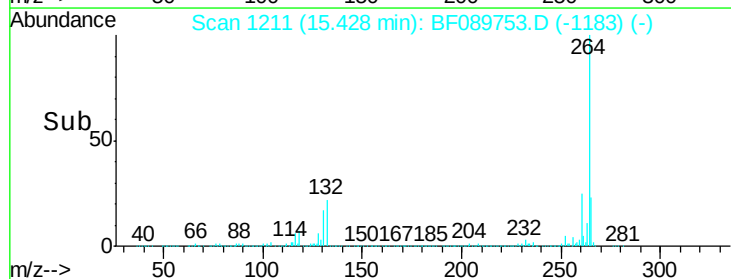
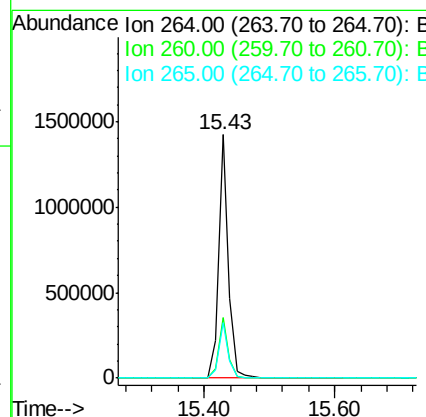
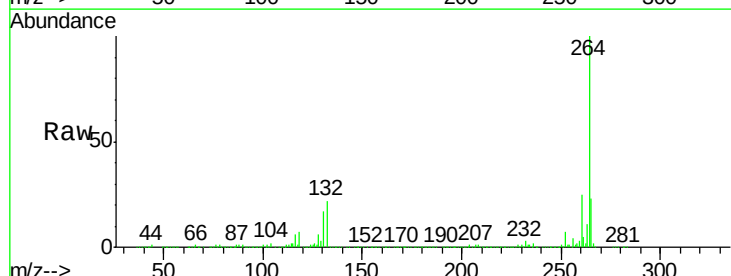
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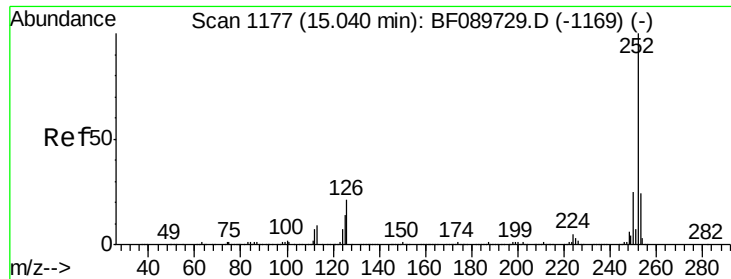


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.43 min Scan# 1211  
Delta R.T. 0.02 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.1  | 20.2  | 30.2  |
| 265     | 22.7  | 17.4  | 26.2  |







#87

Benzo(b)fluoranthene

Concen: 66.93 ng m

RT: 15.04 min Scan# 1177

Delta R.T. 0.03 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Instrument :

BNA\_F

ClientSampled :

9536

Tot Ion:252 Resp: 6429227

Ion Ratio Lower Upper

252 100

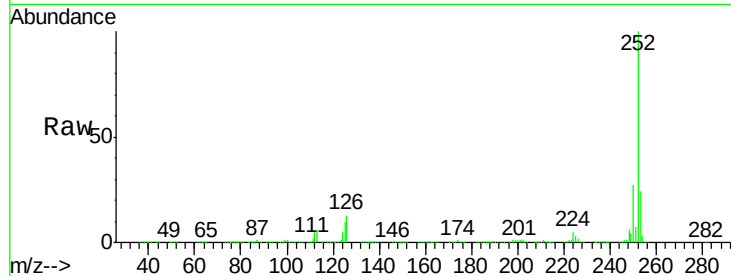
253 24.3 17.8 26.8

125 9.6 11.4 17.2#

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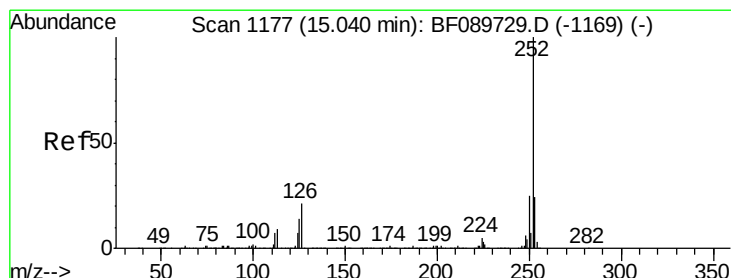
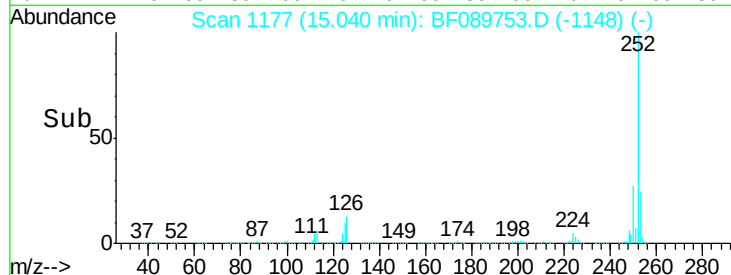
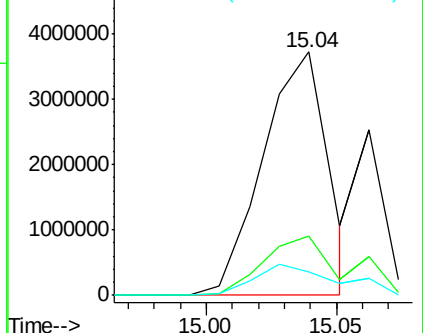
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 24.90 ng m

RT: 15.06 min Scan# 1179

Delta R.T. 0.02 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

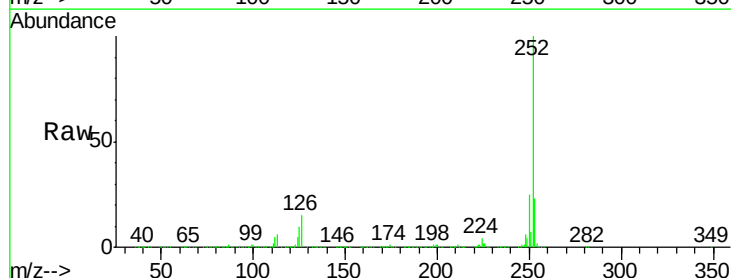
Tgt Ion:252 Resp: 1968721

Ion Ratio Lower Upper

252 100

253 23.5 18.4 27.6

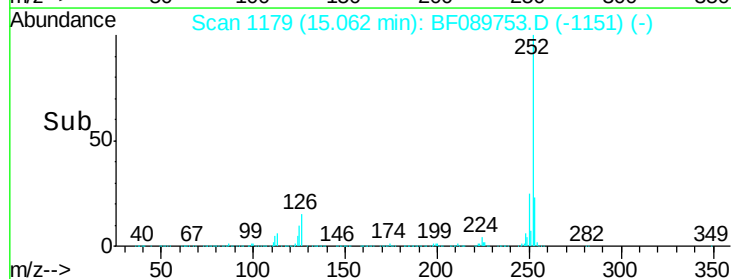
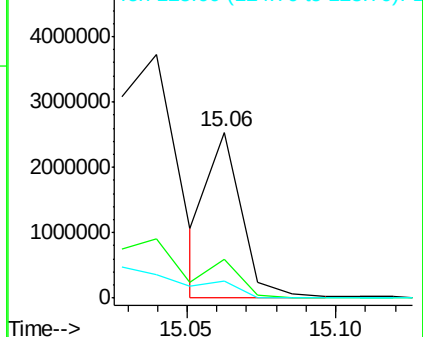
125 10.2 9.8 14.6

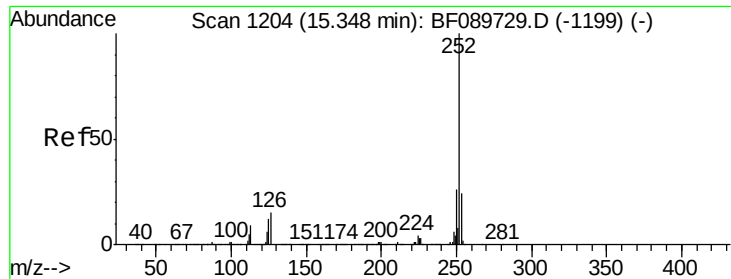


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





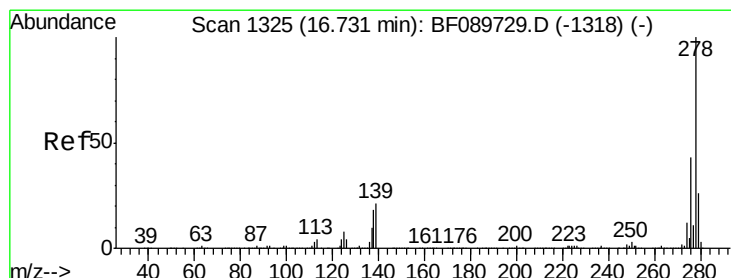
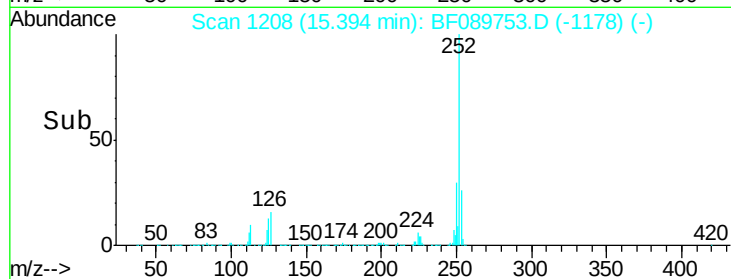
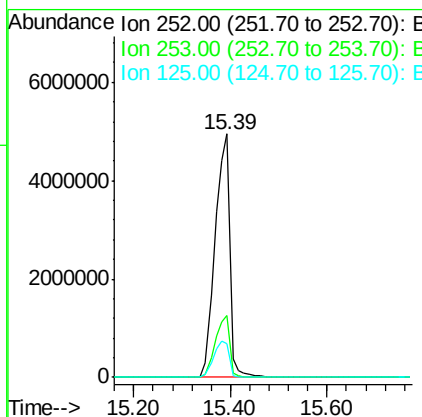
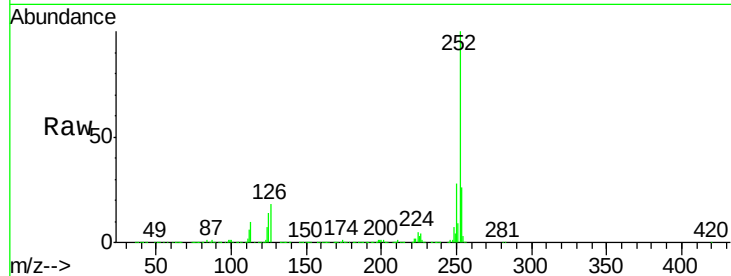
#89  
Benzo(a)pyrene  
Concen: 134.00 ng  
RT: 15.39 min Scan# 1208  
Delta R.T. 0.05 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Instrument :  
BNA\_F  
ClientSampleId :  
9536

Tot Ion:252 Resp:10627376  
Ion Ratio Lower Upper  
252 100  
253 25.6 17.8 26.8  
125 14.0 11.7 17.5

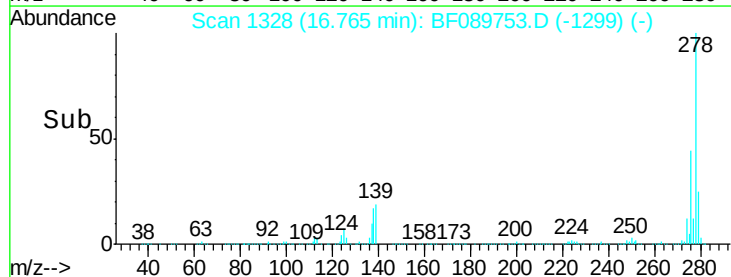
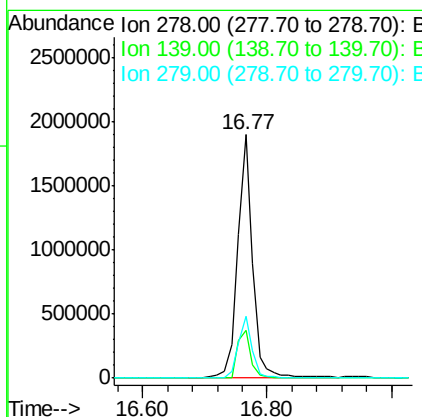
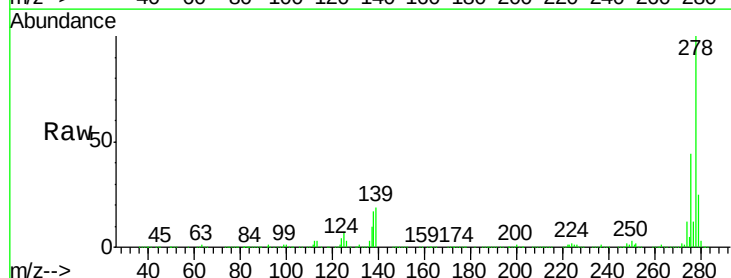
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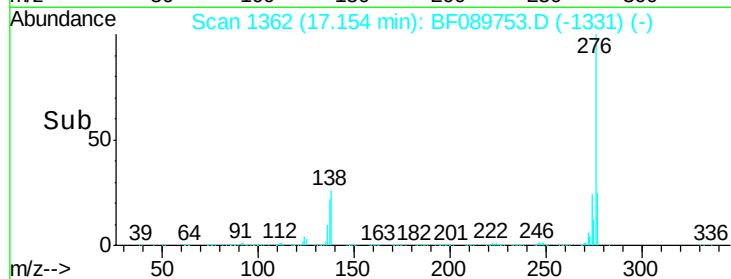
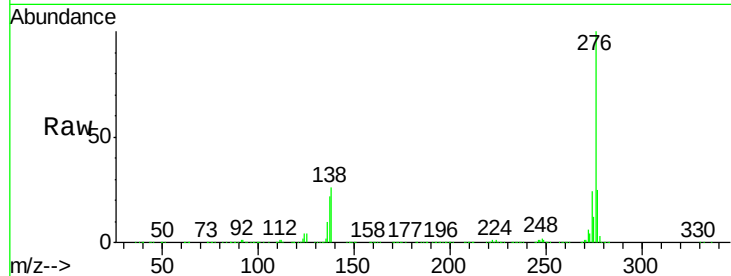
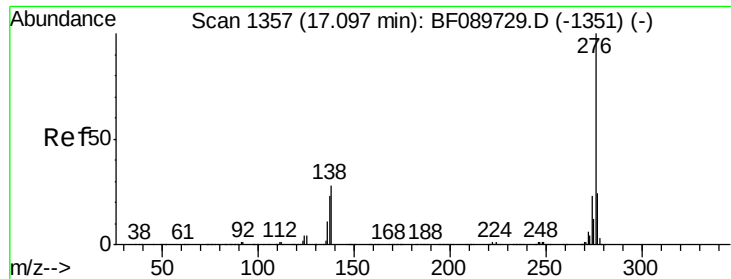
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#90  
Dibenzo(a,h)anthracene  
Concen: 51.26 ng  
RT: 16.77 min Scan# 1328  
Delta R.T. 0.03 min  
Lab File: BF089753.D  
Acq: 17 Aug 2016 9:59

Tgt Ion:278 Resp: 3201298  
Ion Ratio Lower Upper  
278 100  
139 19.4 14.9 22.3  
279 25.4 19.2 28.8





#91

Benzo(a,h,i)perylene

Concen: 93.21 ng

RT: 17.15 min Scan# 1362

Delta R.T. 0.06 min

Lab File: BF089753.D

Acq: 17 Aug 2016 9:59

Tot Ion: 276 Resp: 5924249

Ion Ratio Lower Upper

276 100

277 24.8 19.2 28.8

138 25.7 22.1 33.1

Instrument :

BNA\_F

ClientSampleId :

9536

Manual Integrations

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