

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE072418\  
 Data File : BE097076.D  
 Acq On : 24 Jul 2018 17:48  
 Operator : SJ/JU  
 Sample : J4073-18MS  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE123D3-071818MS

Manual Integrations  
 APPROVED

Sohil  
 7/25/2018 2:39:14 PM

Quant Time: Jul 25 00:55:11 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE072418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 24 13:24:10 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.39  | 152  | 1233     | 0.40  | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.15 | 136  | 5711     | 0.40  | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.01 | 164  | 3369     | 0.40  | ng    | 0.00     |
| 19) Phenanthrene-d10           | 16.76 | 188  | 9889     | 0.40  | ng    | 0.00     |
| 27) Chrysene-d12               | 20.97 | 240  | 11594    | 0.40  | ng    | -0.01    |
| 34) Perylene-d12               | 23.21 | 264  | 11036    | 0.40  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.05  | 112  | 473      | 0.14  | ng    | 0.00     |
| 5) Phenol-d6                   | 6.60  | 99   | 406      | 0.08  | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 8.52  | 82   | 1962     | 0.40  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 11.73 | 152  | 3570     | 0.42  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 15.52 | 330  | 406      | 0.37  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 12.63 | 172  | 5301     | 0.46  | ng    | 0.00     |
| 25) Fluoranthene-d10           | 18.81 | 212  | 47940    | 0.48  | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.42 | 244  | 9906     | 0.44  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.10  | 88   | 354      | 0.181 | ng    | # 64     |
| 3) n-Nitrosodimethylamine      | 3.37  | 42   | 432      | 0.197 | ng    | # 73     |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93   | 1629     | 0.351 | ng    | 96       |
| 9) Naphthalene                 | 10.20 | 128  | 21439    | 0.418 | ng    | 100      |
| 10) Hexachlorobutadiene        | 10.48 | 225  | 808      | 0.352 | ng    | 98       |
| 12) 2-Methylnaphthalene        | 11.81 | 142  | 3573     | 0.406 | ng    | 100      |
| 16) Acenaphthylene             | 13.73 | 152  | 5698     | 0.377 | ng    | 99       |
| 17) Acenaphthene               | 14.08 | 154  | 3409     | 0.388 | ng    | 94       |
| 18) Fluorene                   | 15.07 | 166  | 4810     | 0.414 | ng    | # 79     |
| 20) 4-Bromophenyl-phenylether  | 15.97 | 248  | 1686     | 0.351 | ng    | 87       |
| 21) Hexachlorobenzene          | 16.08 | 284  | 1661     | 0.322 | ng    | # 82     |
| 22) Pentachlorophenol          | 16.43 | 266  | 1024     | 0.758 | ng    | # 70     |
| 23) Phenanthrene               | 16.81 | 178  | 9757     | 0.414 | ng    | 98       |
| 24) Anthracene                 | 16.89 | 178  | 9143     | 0.434 | ng    | 95       |
| 26) Fluoranthene               | 18.84 | 202  | 12776    | 0.483 | ng    | 99       |
| 28) Pyrene                     | 19.20 | 202  | 13325    | 0.419 | ng    | 99       |
| 30) Benzo(a)anthracene         | 20.95 | 228  | 12621    | 0.438 | ng    | 97       |
| 31) Chrysene                   | 21.00 | 228  | 12453    | 0.403 | ng    | 98       |
| 32) Bis(2-ethylhexyl)phthalate | 20.92 | 149  | 31803    | 0.962 | ng    | 99       |
| 33) Indeno(1,2,3-cd)pyrene     | 25.50 | 276  | 12080    | 0.431 | ng    | # 94     |
| 35) Benzo(b)fluoranthene       | 22.53 | 252  | 11398    | 0.407 | ng    | # 89     |
| 36) Benzo(k)fluoranthene       | 22.58 | 252  | 11998m   | 0.367 | ng    |          |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 11136    | 0.423 | ng    | 93       |
| 38) Dibenzo(a,h)anthracene     | 25.52 | 278  | 10258    | 0.390 | ng    | 96       |
| 39) Benzo(g,h,i)perylene       | 26.19 | 276  | 10486    | 0.376 | ng    | # 91     |

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

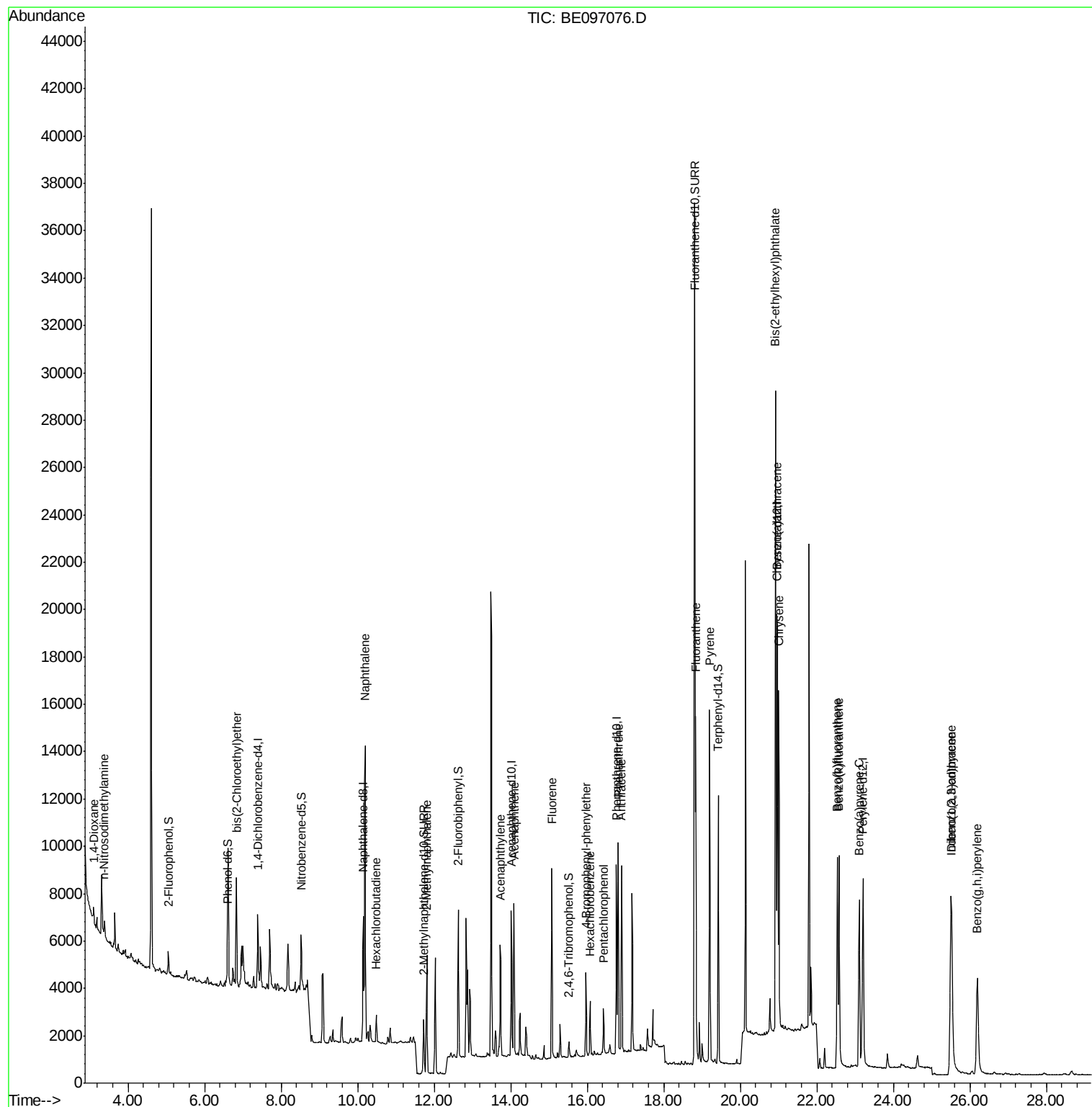
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE072418\  
Data File : BE097076.D  
Acq On : 24 Jul 2018 17:48  
Operator : SJ/JU  
Sample : J4073-18MS  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

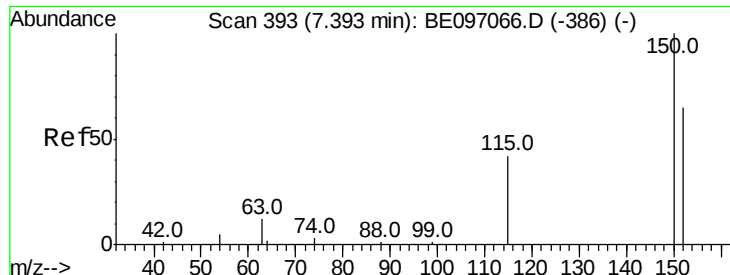
Instrument :  
BNA\_E  
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RE123D3-071818MS

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE072418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 24 13:24:10 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.39 min Scan# 393

Delta R.T. -0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

Instrument :

BNA\_E

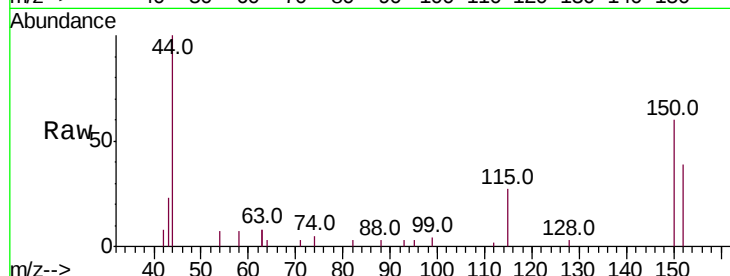
ClientSampleId :

RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.0 | 117.2 | 175.8 |
| 115     | 70.8  | 57.0  | 85.6  |

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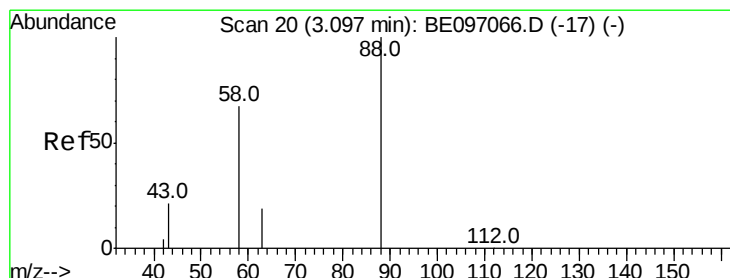
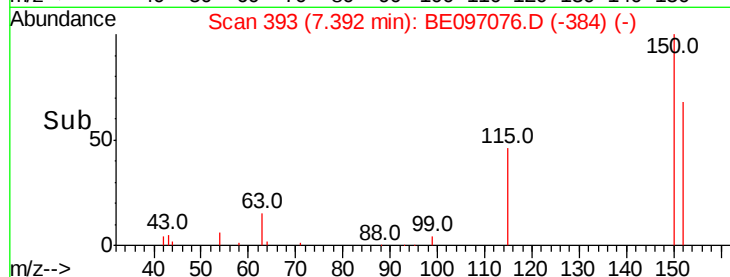
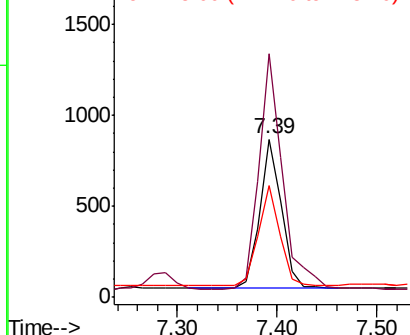


Abundance

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



#2

1,4-Dioxane

Concen: 0.181 ng

RT: 3.10 min Scan# 20

Delta R.T. -0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

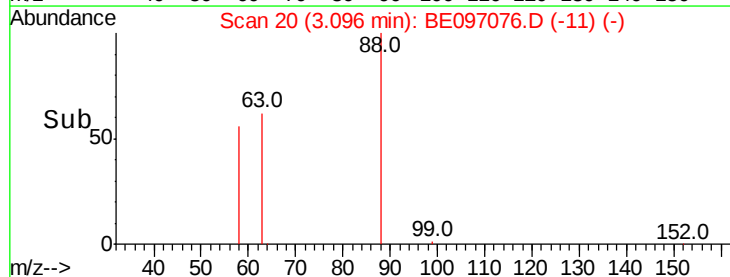
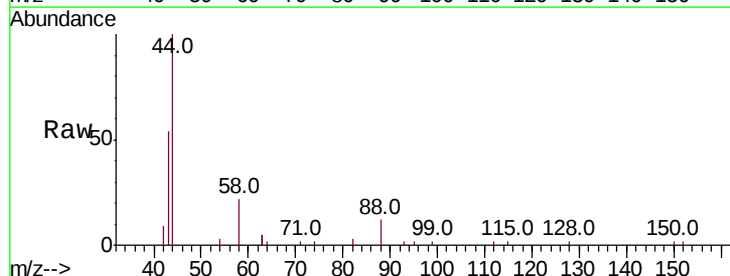
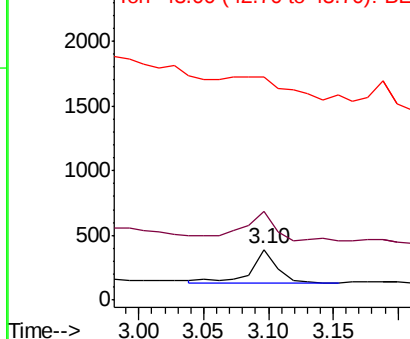
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 89.5  | 63.2  | 94.8  |
| 43      | 0.0   | 41.2  | 61.8# |

Abundance

Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.197 ng

RT: 3.37 min Scan# 44

Delta R.T. -0.01 min

Lab File: BE097076.D

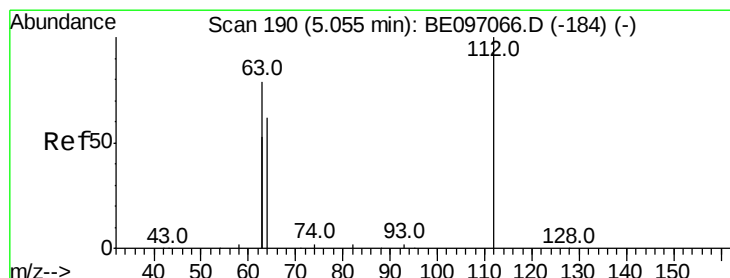
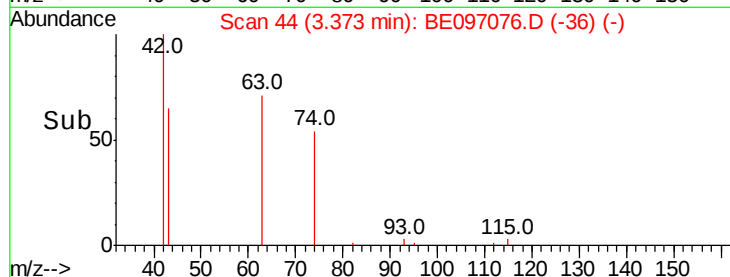
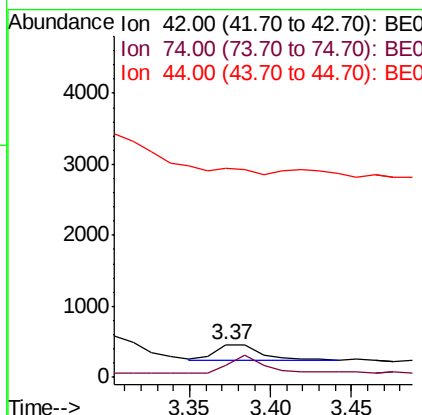
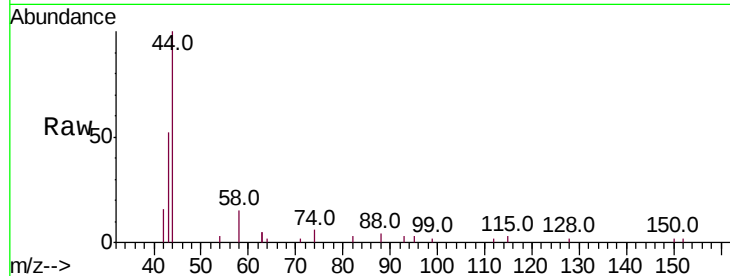
Acq: 24 Jul 2018 17:48

Instrument :  
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ClientSampleId :  
RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 42      | 100   |       |        |
| 74      | 90.7  | 96.0  | 144.0# |
| 44      | 0.0   | 12.0  | 18.0#  |

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#4

2-Fluorophenol

Concen: 0.136 ng

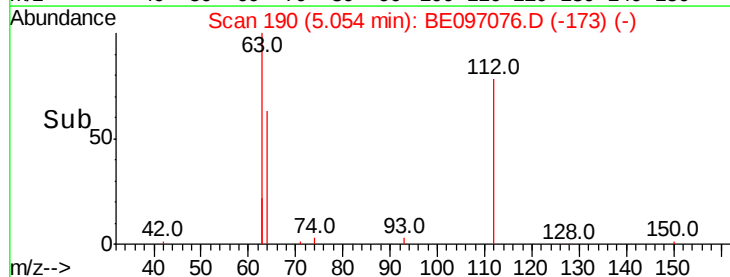
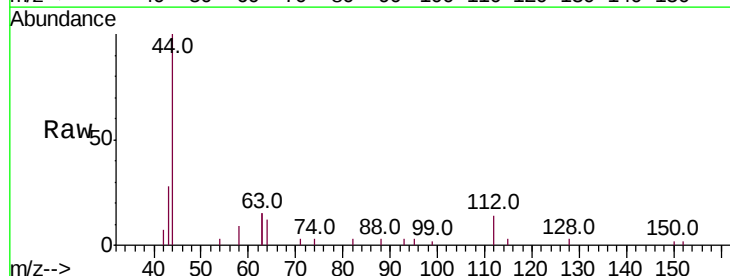
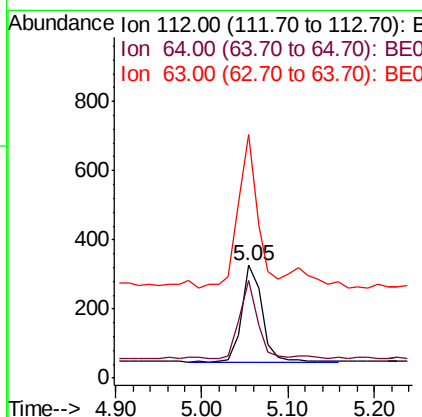
RT: 5.05 min Scan# 190

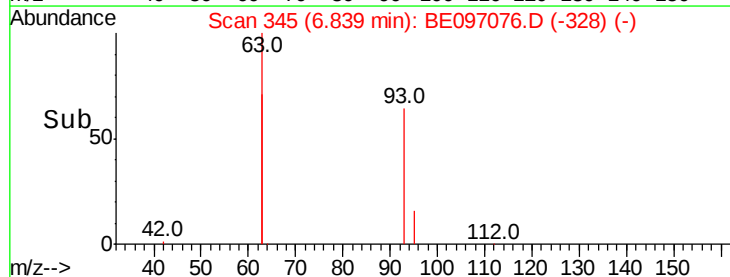
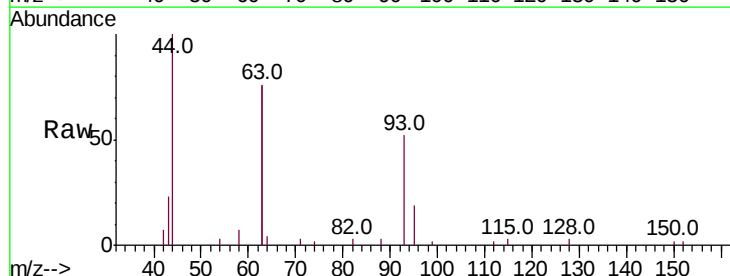
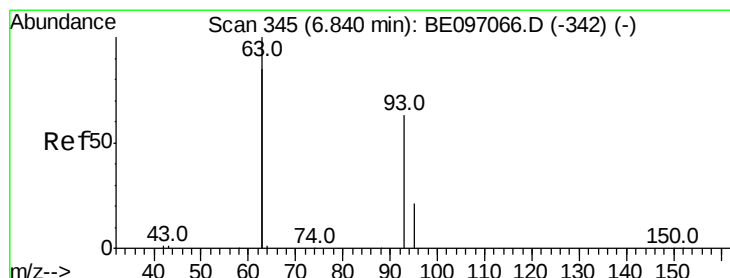
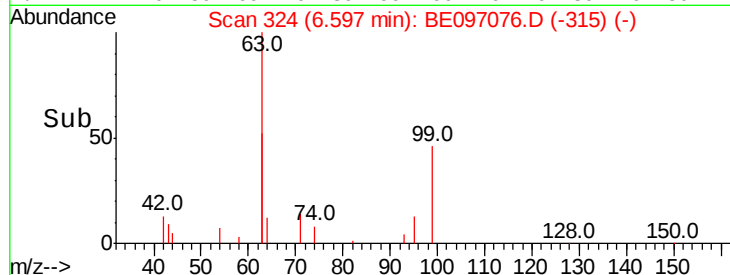
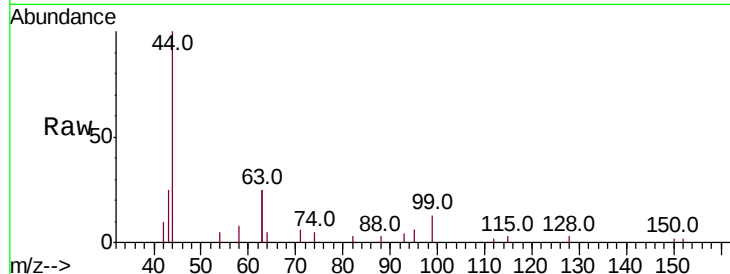
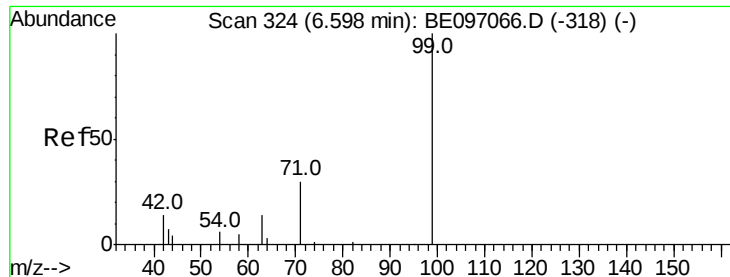
Delta R.T. -0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.8  | 60.1  | 90.1  |
| 63      | 146.3 | 116.8 | 175.2 |





#5

Phenol-d6

Concen: 0.080 ng

RT: 6.60 min Scan# 324

Delta R.T. -0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 0.0   | 20.2  | 30.2# |
| 71      | 44.1  | 28.4  | 42.6# |

Instrument :

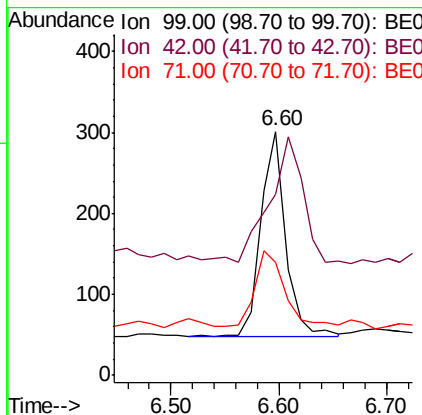
BNA\_E

ClientSampleId :

RE123D3-071818MS

Manual Integrations  
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#6

bis(2-Chloroethyl)ether

Concen: 0.351 ng

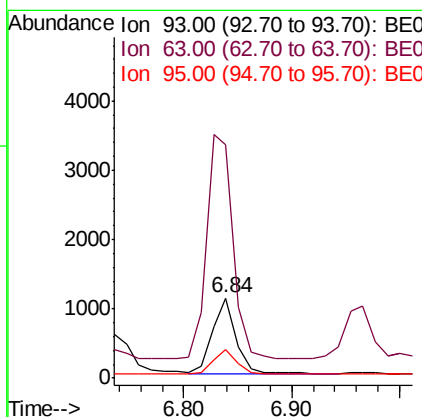
RT: 6.84 min Scan# 345

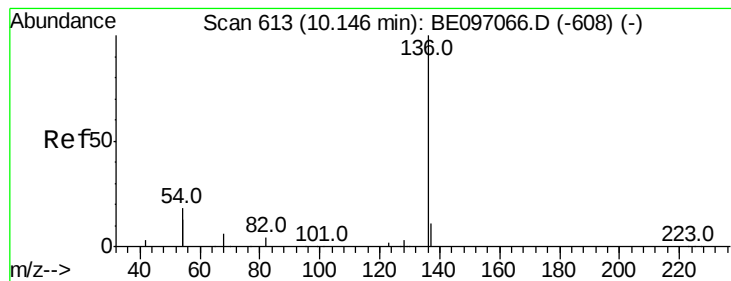
Delta R.T. -0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 334.5 | 275.3 | 412.9 |
| 95      | 32.9  | 25.2  | 37.8  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

Instrument :

BNA\_E

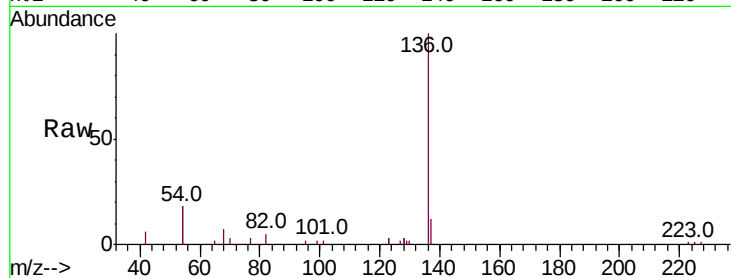
ClientSampleId :

RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.1  | 9.5   | 14.3  |
| 54      | 35.5  | 29.1  | 43.7  |
| 68      | 7.2   | 6.2   | 9.2   |

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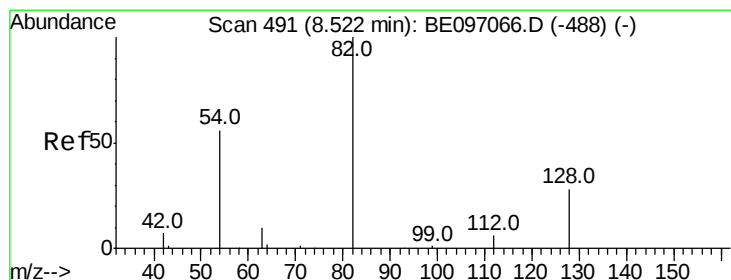
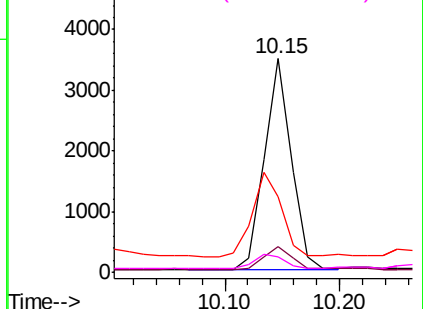
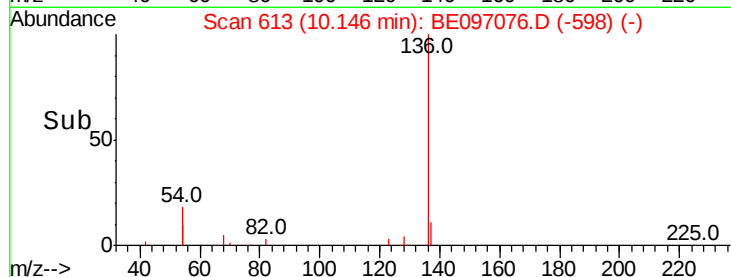


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.395 ng

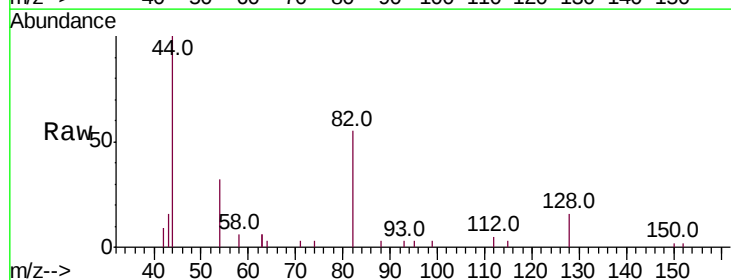
RT: 8.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

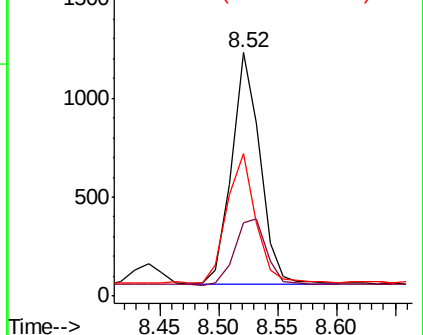
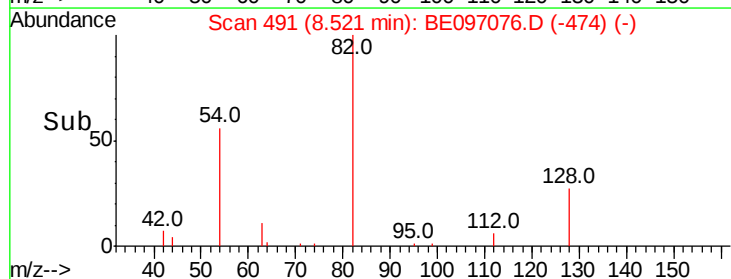
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 30.1  | 24.0  | 36.0  |
| 54      | 58.5  | 40.0  | 60.0  |

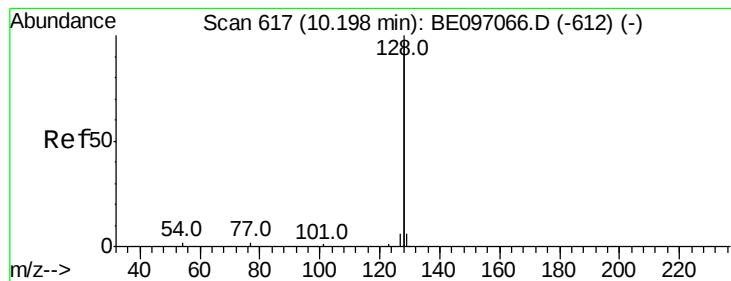


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.418 ng

RT: 10.20 min Scan# 617

Delta R.T. 0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

Instrument :

BNA\_E

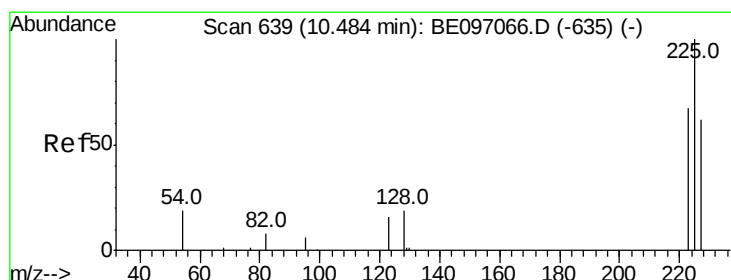
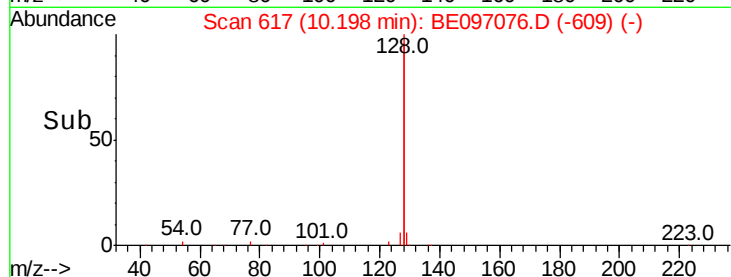
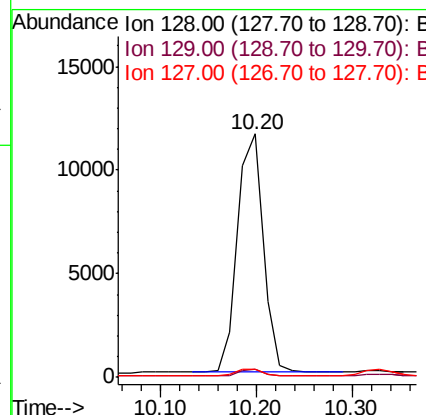
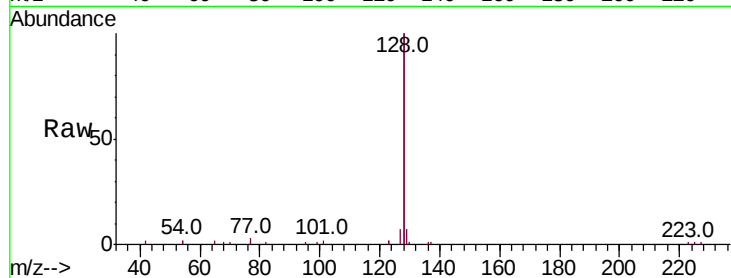
ClientSampleId :

RE123D3-071818MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 21439 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.3   | 2.6   | 3.8   |
| 127       | 3.5   | 2.8   | 4.2   |

Manual Integrations  
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#10

Hexachlorobutadiene

Concen: 0.352 ng

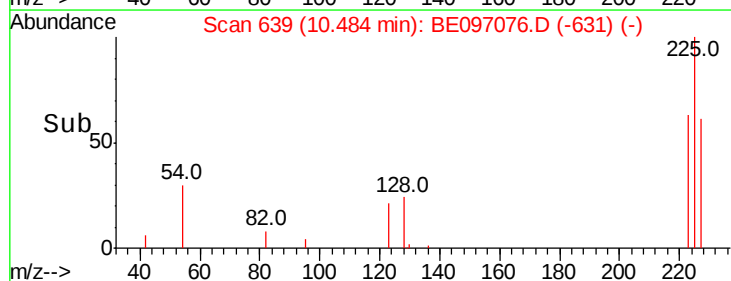
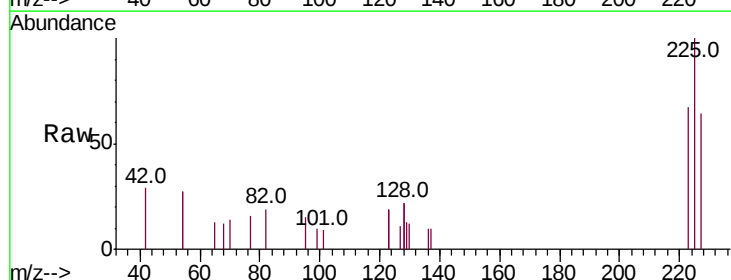
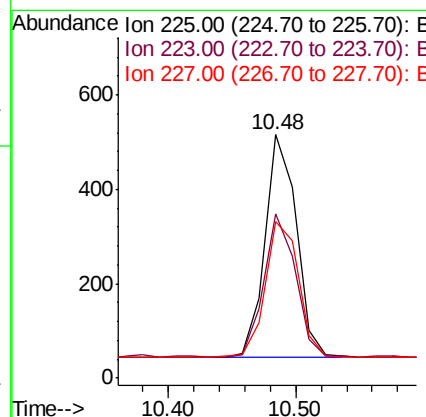
RT: 10.48 min Scan# 639

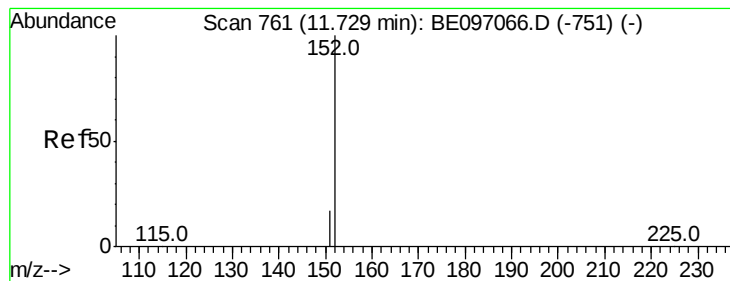
Delta R.T. 0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 808  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 64.1  | 53.0  | 79.6 |
| 227       | 63.7  | 51.4  | 77.2 |





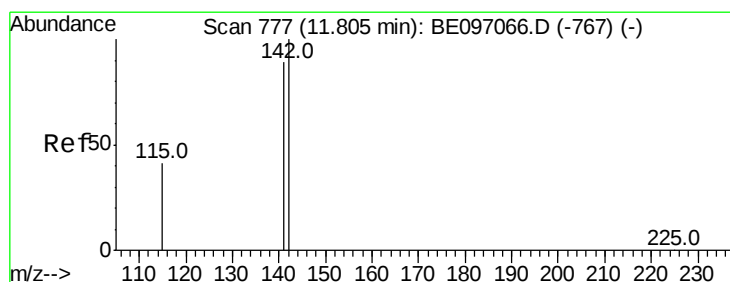
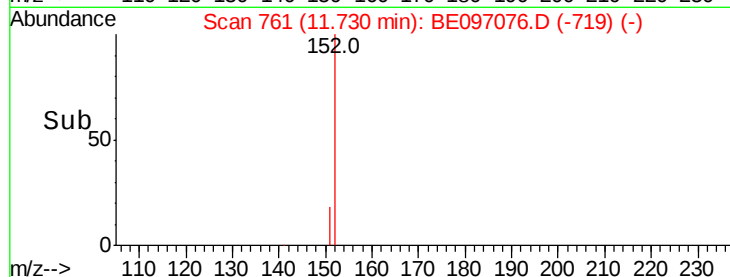
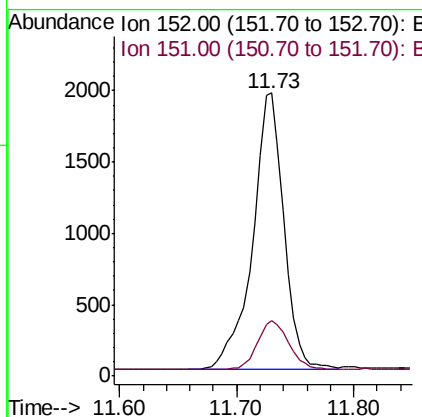
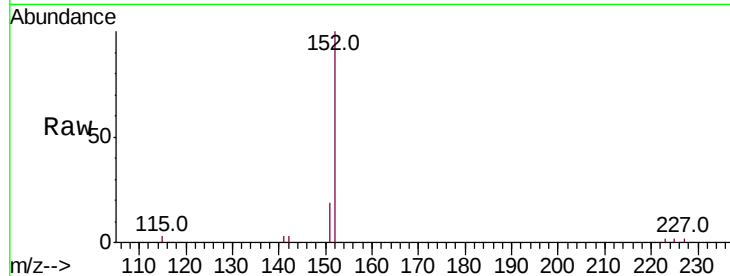
#11  
2-Methylnaphthalene-d10  
Concen: 0.418 ng  
RT: 11.73 min Scan# 761  
Delta R.T. 0.00 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

Instrument :  
BNA\_E  
ClientSampleId :  
RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 17.3  | 15.4  | 23.0  |

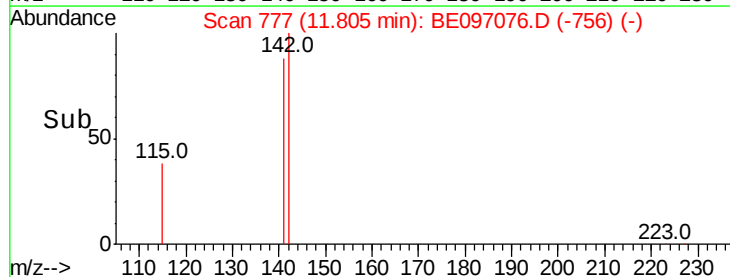
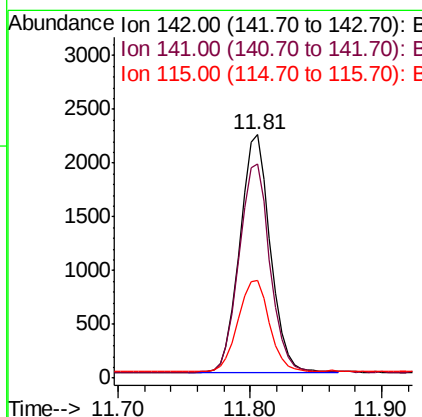
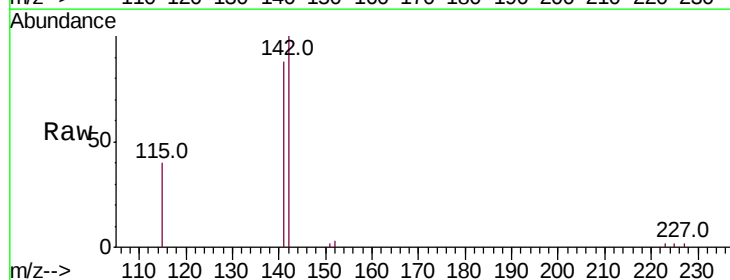
Manual Integrations  
APPROVED

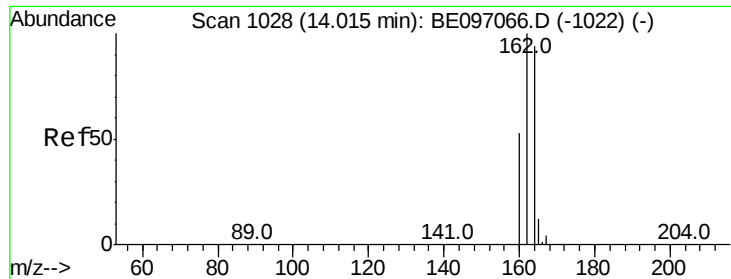
Sohil  
7/25/2018 2:39:14 PM



#12  
2-Methylnaphthalene  
Concen: 0.406 ng  
RT: 11.81 min Scan# 777  
Delta R.T. 0.00 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.1  | 70.4  | 105.6 |
| 115     | 40.4  | 31.7  | 47.5  |





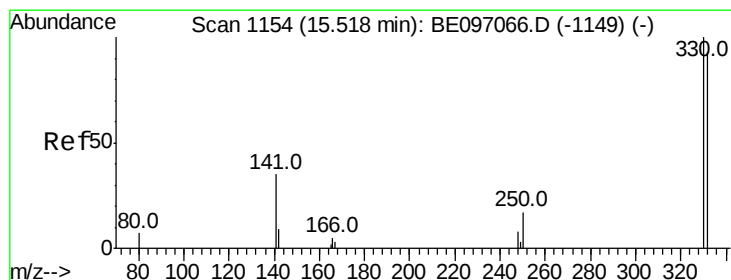
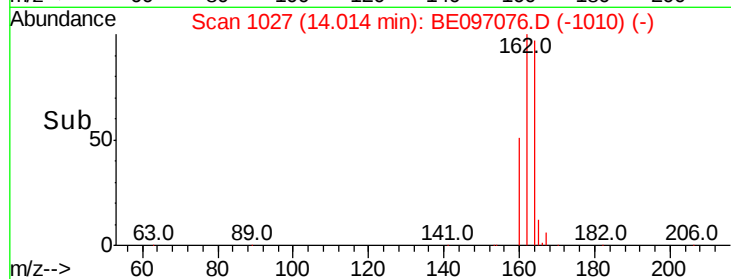
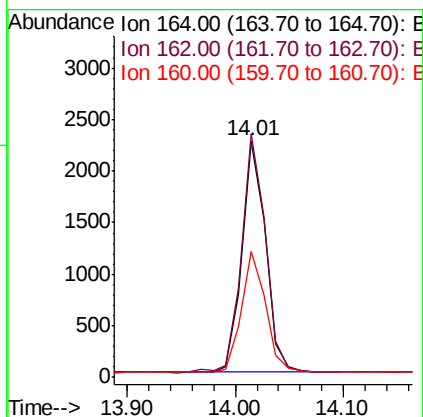
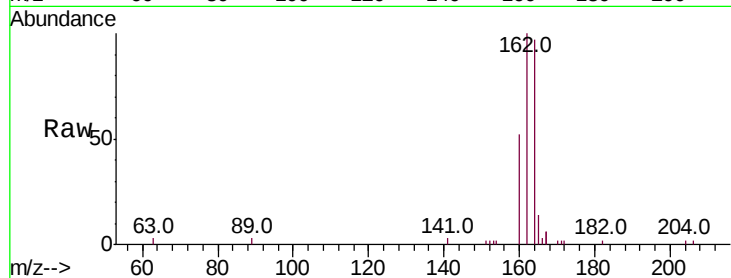
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.01 min Scan# 1027  
 Delta R.T. -0.00 min  
 Lab File: BE097076.D  
 Acq: 24 Jul 2018 17:48

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.1 | 83.1  | 124.7 |
| 160     | 53.3  | 37.1  | 55.7  |

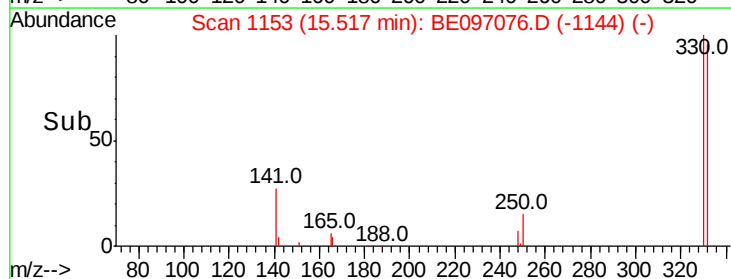
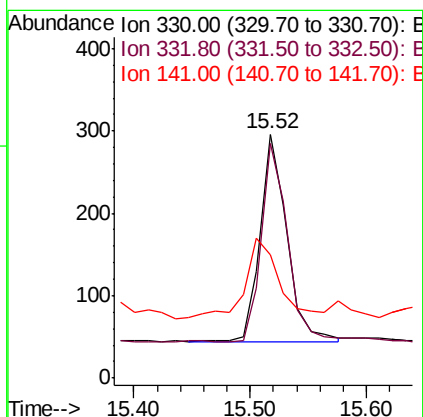
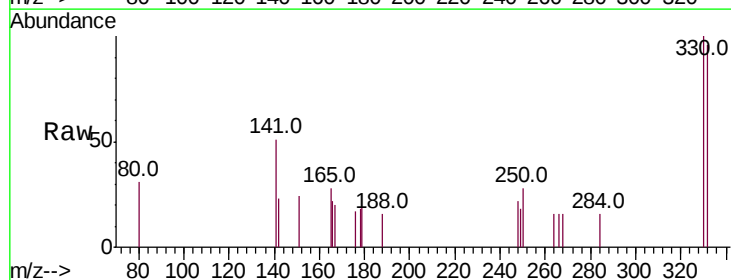
Manual Integrations  
 APPROVED

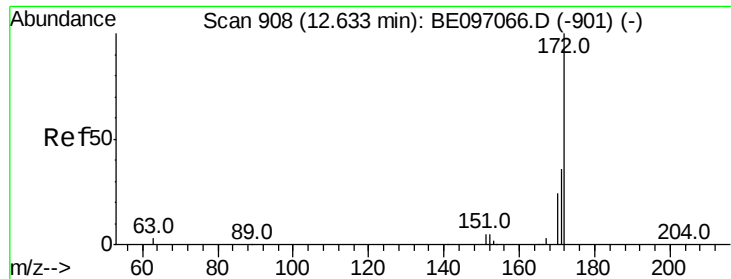
Sohil  
 7/25/2018 2:39:14 PM



#14  
 2,4,6-Tribromophenol  
 Concen: 0.366 ng  
 RT: 15.52 min Scan# 1153  
 Delta R.T. -0.00 min  
 Lab File: BE097076.D  
 Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 330     | 100   |       |        |
| 332     | 93.3  | 152.7 | 229.1# |
| 141     | 50.0  | 33.7  | 50.5   |





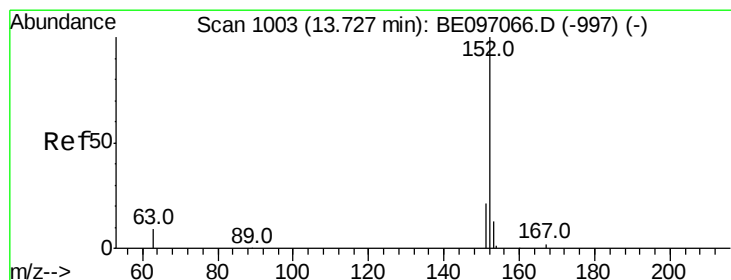
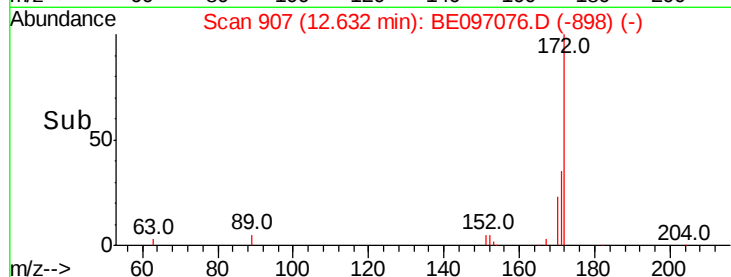
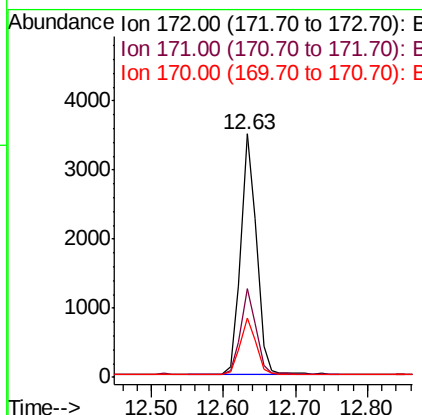
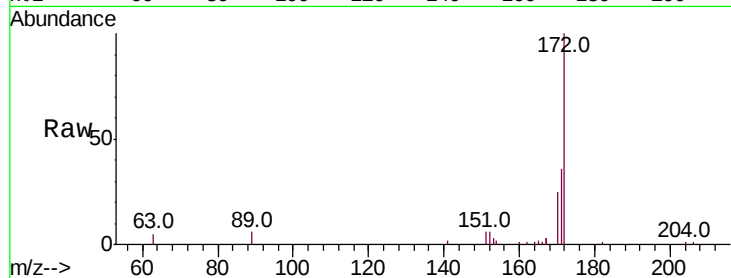
#15  
2-Fluorobiphenyl  
Concen: 0.456 ng  
RT: 12.63 min Scan# 907  
Delta R.T. -0.00 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

Instrument :  
BNA\_E  
ClientSampleId :  
RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.9  | 44.9  |
| 170     | 24.5  | 21.8  | 32.8  |

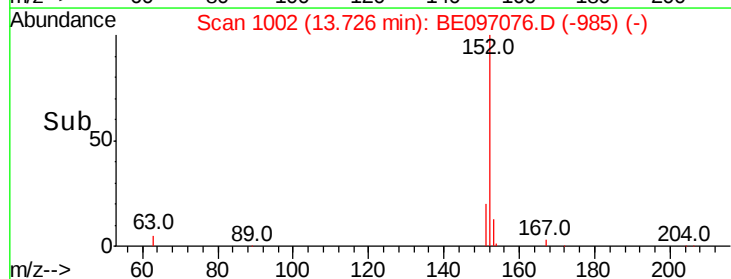
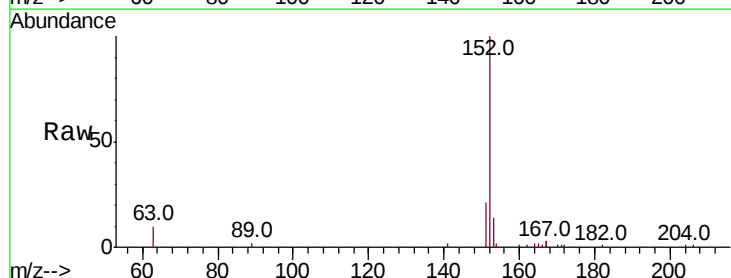
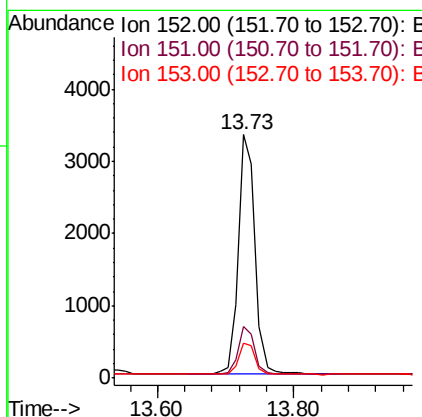
Manual Integrations  
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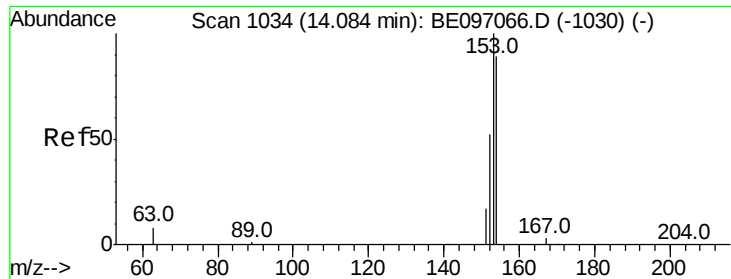
Sohil  
7/25/2018 2:39:14 PM



#16  
Acenaphthylene  
Concen: 0.377 ng  
RT: 13.73 min Scan# 1002  
Delta R.T. -0.00 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 15.7  | 23.5  |
| 153     | 13.4  | 10.5  | 15.7  |





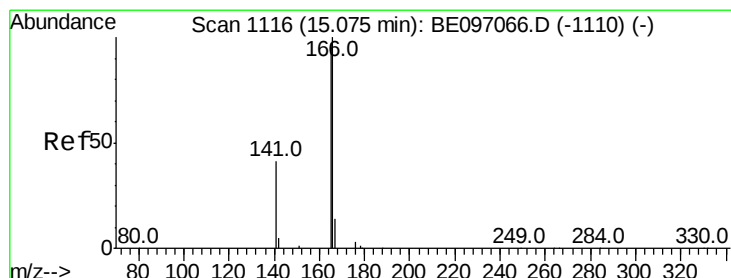
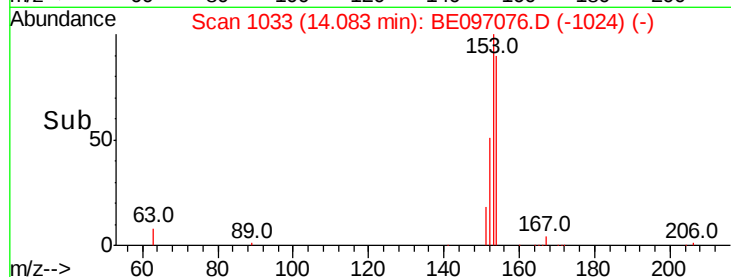
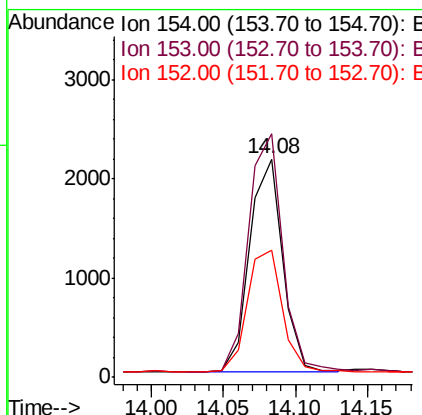
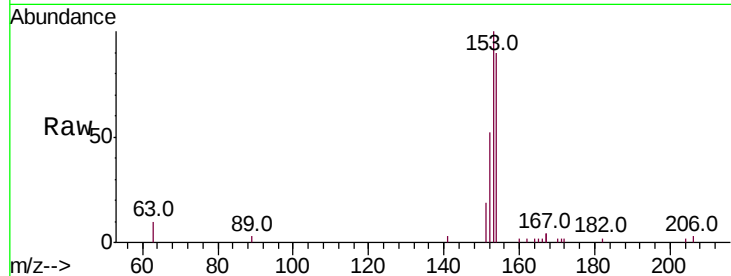
#17  
Acenaphthene  
Concen: 0.388 ng  
RT: 14.08 min Scan# 1033  
Delta R.T. -0.00 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

Instrument :  
BNA\_E  
ClientSampleId :  
RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 115.6 | 89.2  | 133.8 |
| 152     | 60.8  | 42.0  | 63.0  |

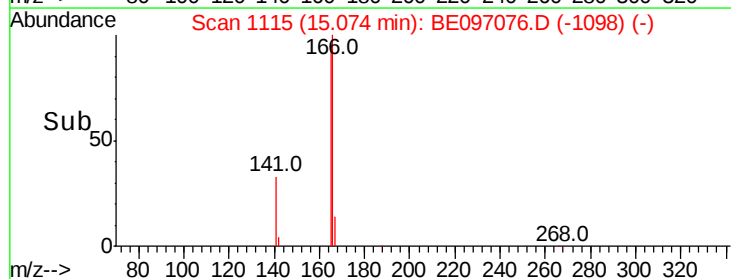
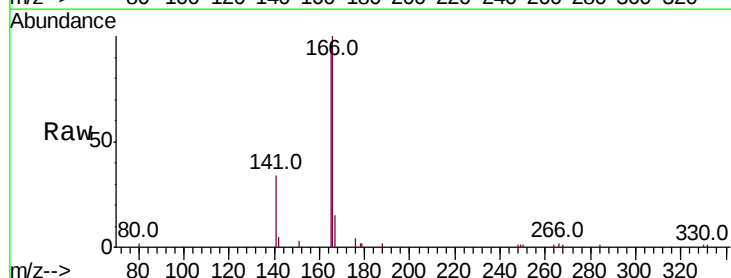
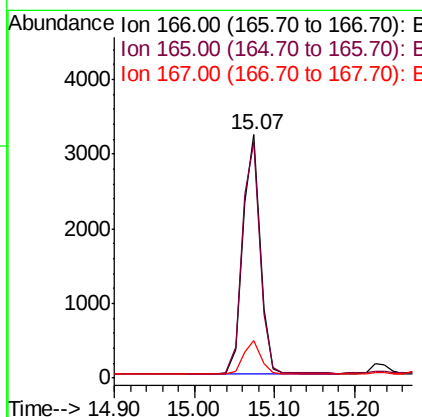
Manual Integrations  
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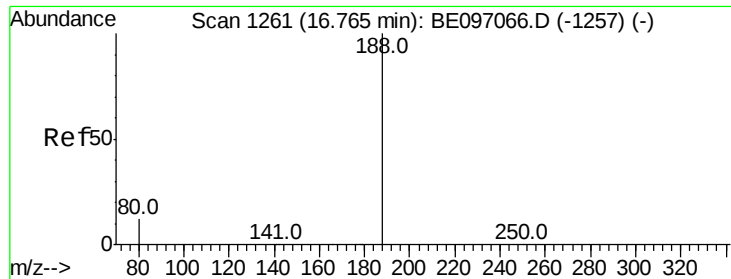
Sohil  
7/25/2018 2:39:14 PM



#18  
Fluorene  
Concen: 0.414 ng  
RT: 15.07 min Scan# 1115  
Delta R.T. -0.00 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.9  | 77.8  | 116.6 |
| 167     | 14.1  | 42.4  | 63.6# |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.76 min Scan# 1260

Delta R.T. -0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

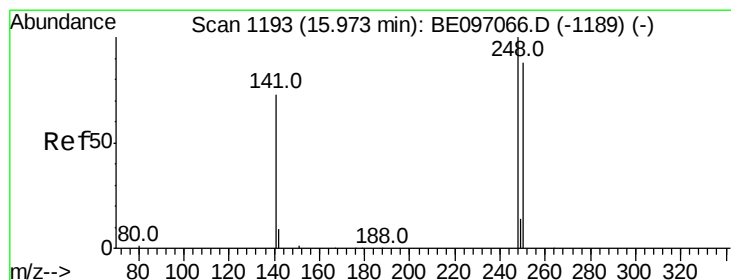
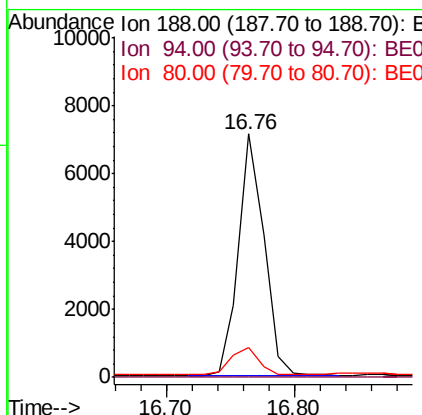
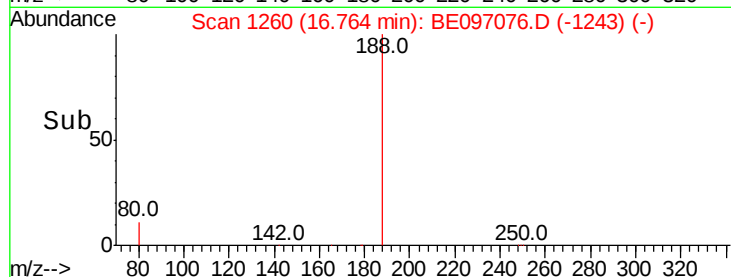
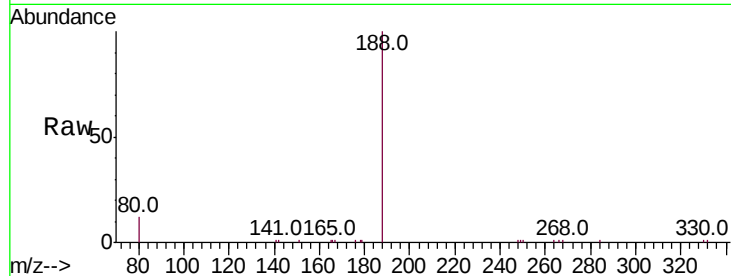
Instrument :  
BNA\_E

ClientSampleId :  
RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 3.9   | 5.9#  |
| 80      | 12.1  | 3.6   | 5.4#  |

Manual Integrations  
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#20

4-Bromophenyl-phenylether

Concen: 0.351 ng

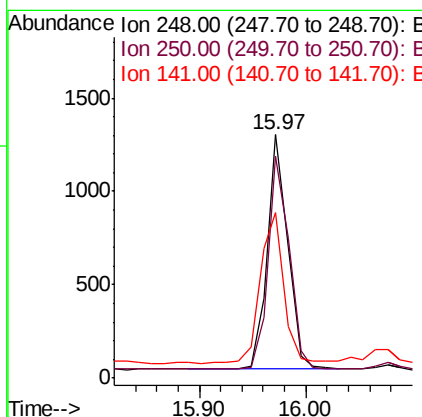
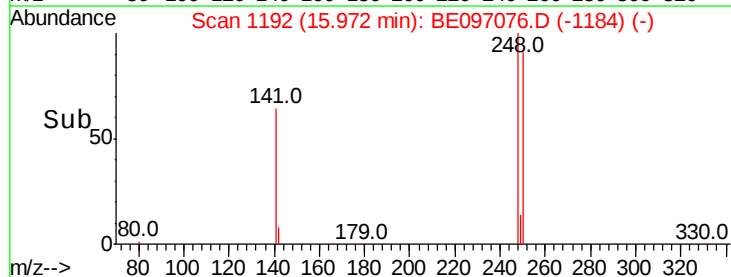
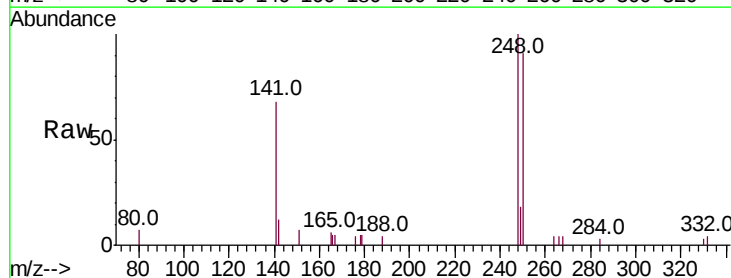
RT: 15.97 min Scan# 1192

Delta R.T. -0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 91.1  | 62.7  | 94.1  |
| 141     | 68.1  | 48.2  | 72.2  |





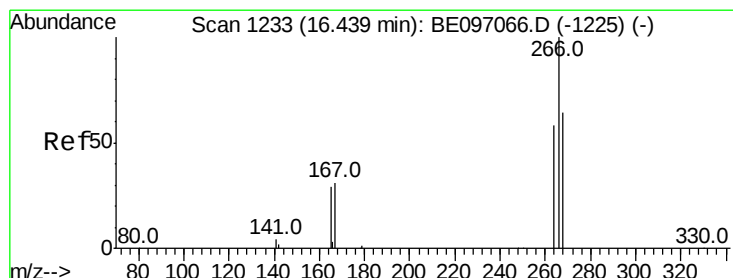
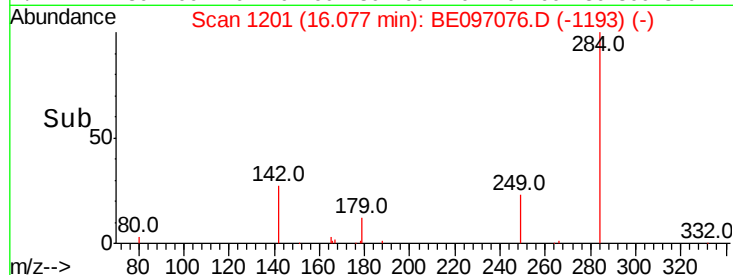
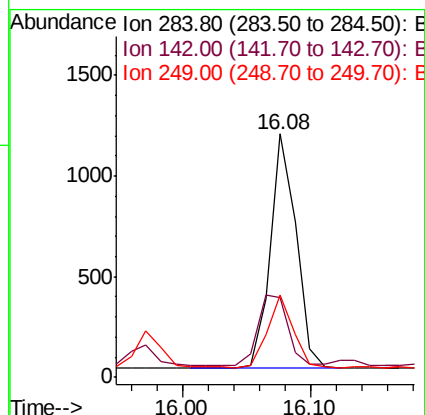
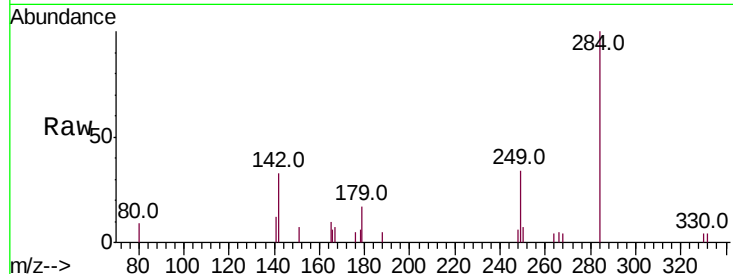
#21  
Hexachlorobenzene  
Concen: 0.322 ng  
RT: 16.08 min Scan# 1201  
Delta R.T. -0.00 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

Instrument :  
BNA\_E  
ClientSampleId :  
RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 35.0  | 22.1  | 33.1# |
| 249     | 30.3  | 34.8  | 52.2# |

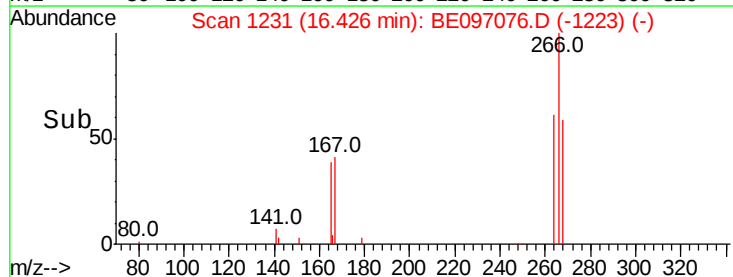
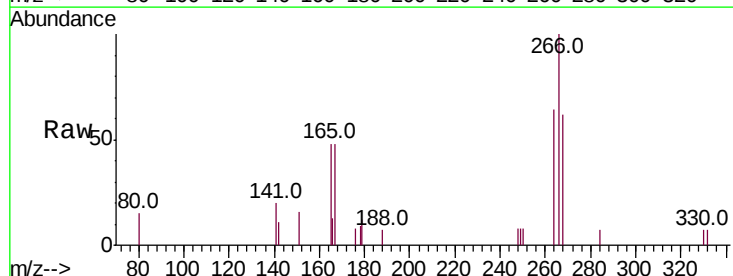
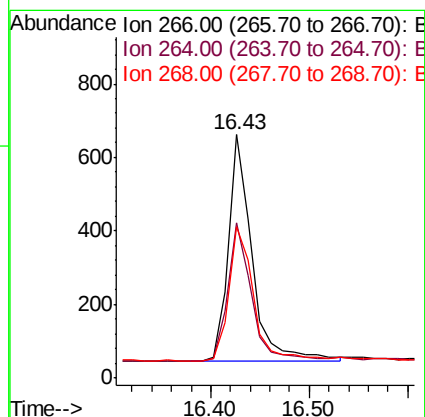
Manual Integrations  
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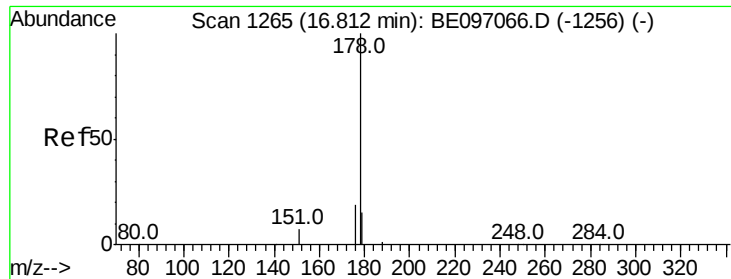
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7/25/2018 2:39:14 PM



#22  
Pentachlorophenol  
Concen: 0.758 ng  
RT: 16.43 min Scan# 1231  
Delta R.T. -0.01 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 266     | 100   |       |        |
| 264     | 64.0  | 72.5  | 108.7# |
| 268     | 62.2  | 73.8  | 110.6# |





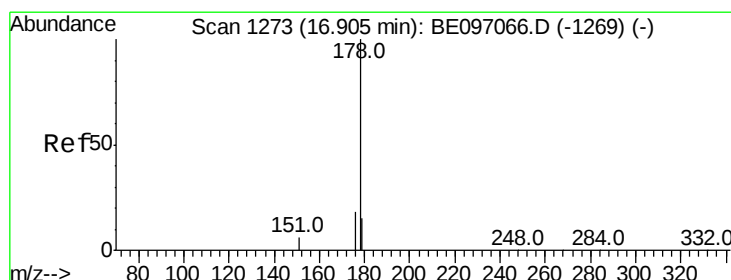
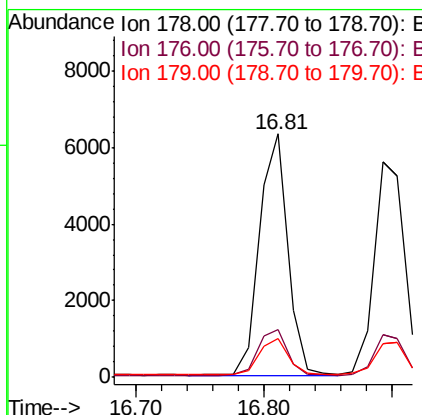
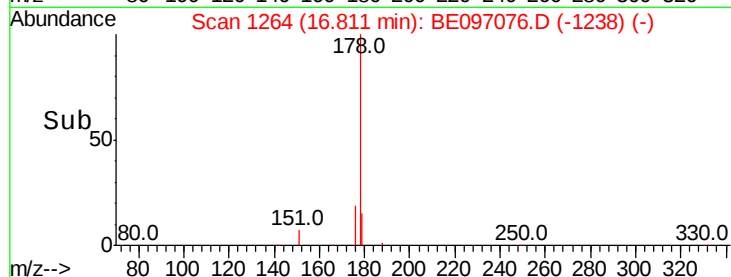
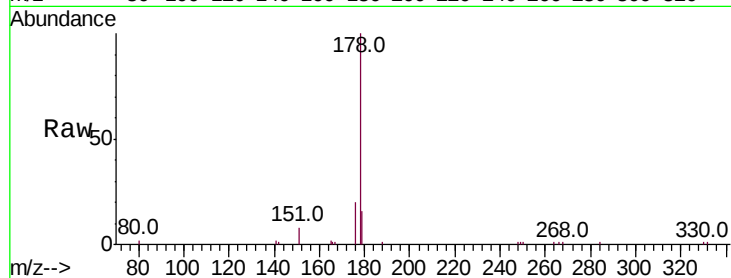
#23  
Phenanthrene  
Concen: 0.414 ng  
RT: 16.81 min Scan# 1264  
Delta R.T. -0.00 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

Instrument :  
BNA\_E  
ClientSampleId :  
RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 15.1  | 22.7  |
| 179     | 15.6  | 11.8  | 17.6  |

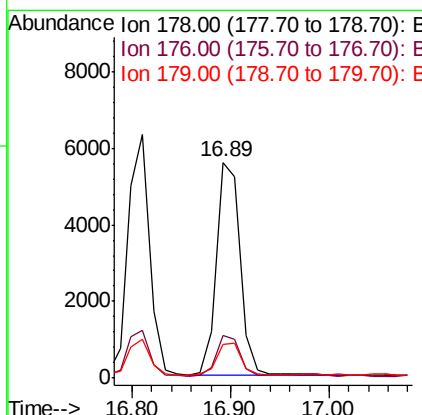
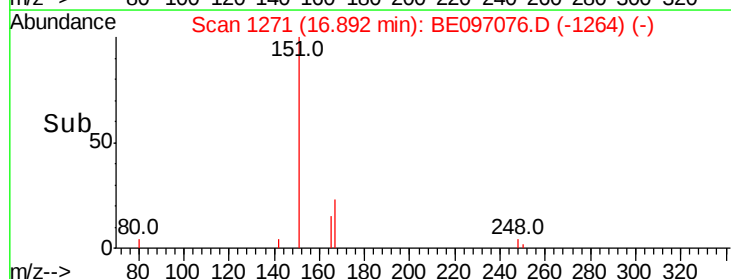
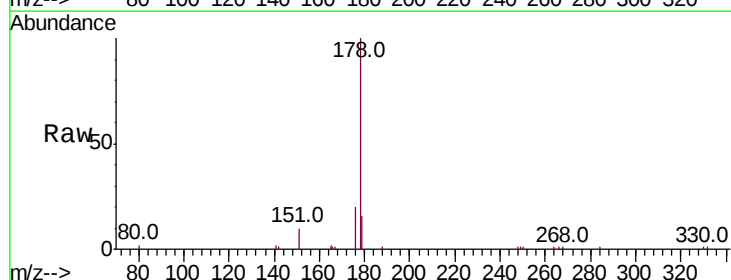
Manual Integrations  
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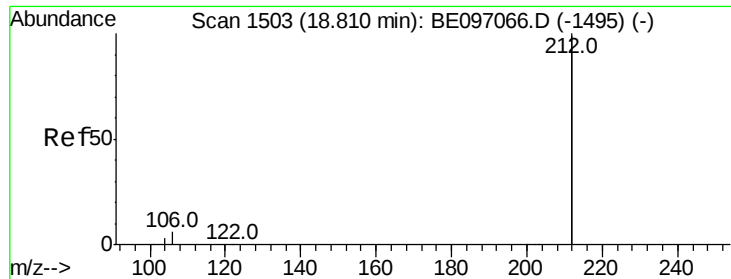
Sohil  
7/25/2018 2:39:14 PM



#24  
Anthracene  
Concen: 0.434 ng  
RT: 16.89 min Scan# 1271  
Delta R.T. -0.01 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.2  | 12.8  | 19.2  |
| 179     | 15.3  | 13.0  | 19.6  |





#25

Fluoranthene-d10

Concen: 0.484 ng

RT: 18.81 min Scan# 1502

Delta R.T. -0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

Instrument :

BNA\_E

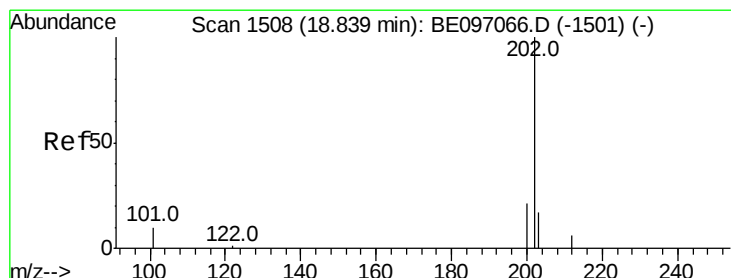
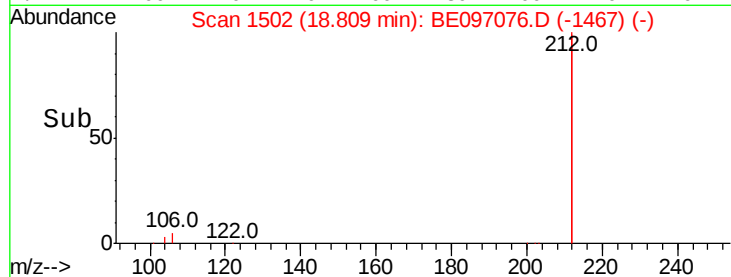
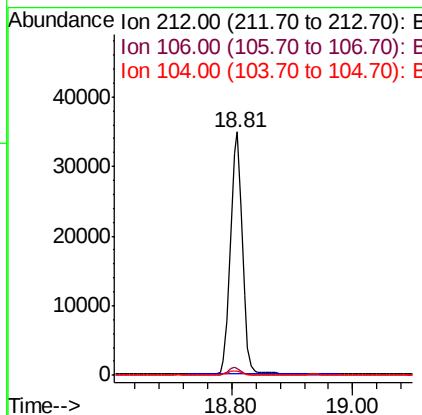
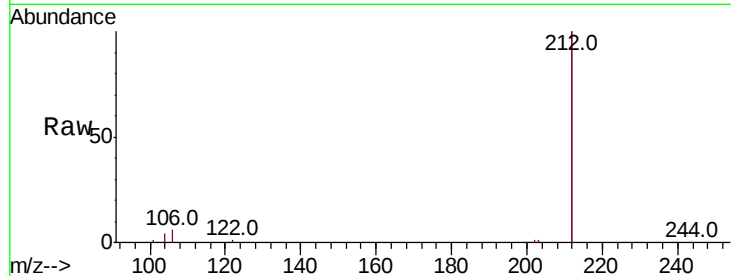
ClientSampleId :

RE123D3-071818MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 47940 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 3.2   | 2.8   | 4.2   |
| 104       | 1.8   | 1.6   | 2.4   |

Manual Integrations  
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#26

Fluoranthene

Concen: 0.483 ng

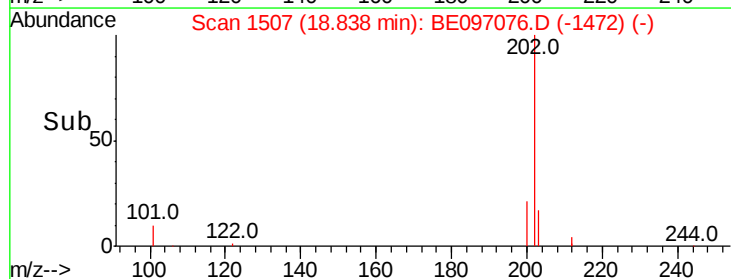
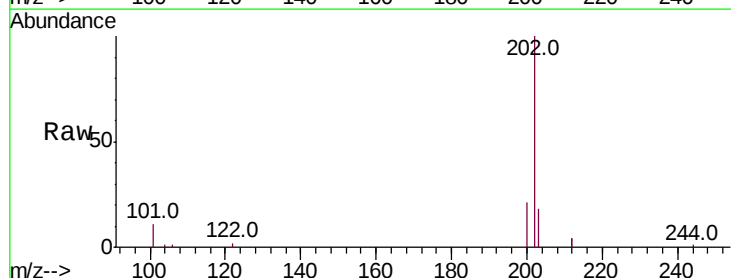
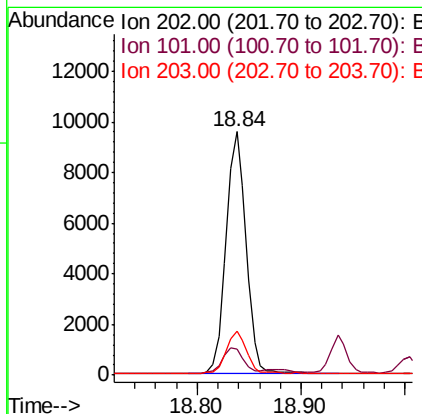
RT: 18.84 min Scan# 1507

Delta R.T. -0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 12776 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.1  | 9.8   | 14.8  |
| 203       | 17.1  | 13.7  | 20.5  |





#27

Chrysene-d12

Concen: 0.400 ng

RT: 20.97 min Scan# 1786

Delta R.T. -0.01 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

Instrument :

BNA\_E

ClientSampleId :

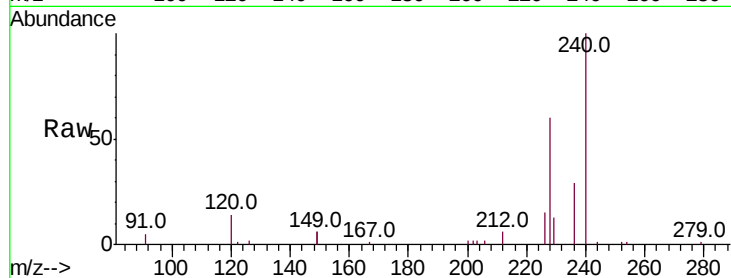
RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.7  | 5.5   | 8.3#  |
| 236     | 28.6  | 20.7  | 31.1  |

Manual Integrations  
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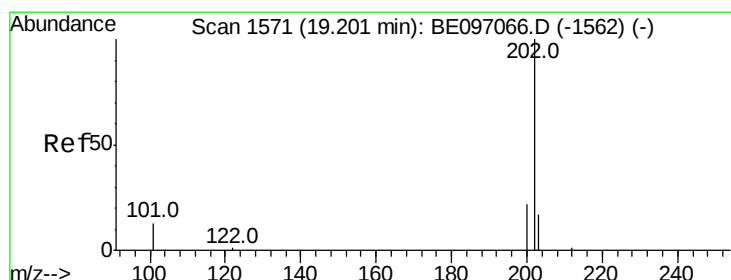
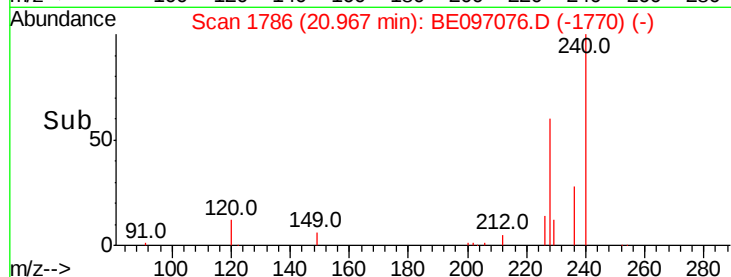
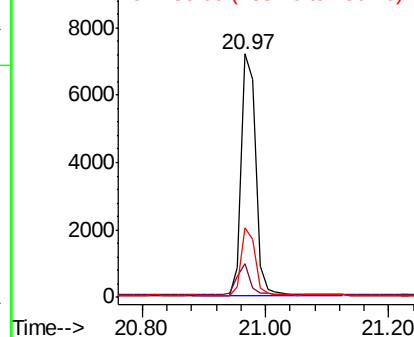


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.419 ng

RT: 19.20 min Scan# 1570

Delta R.T. -0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

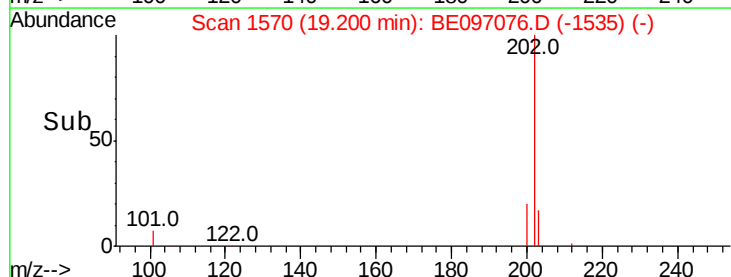
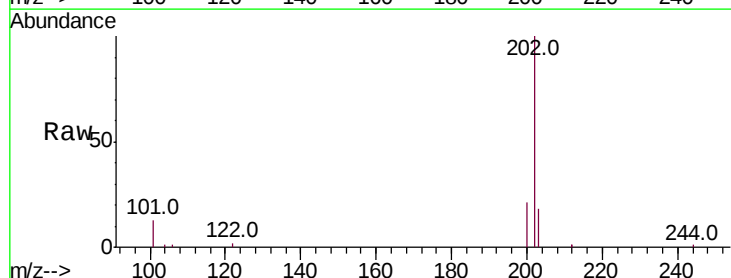
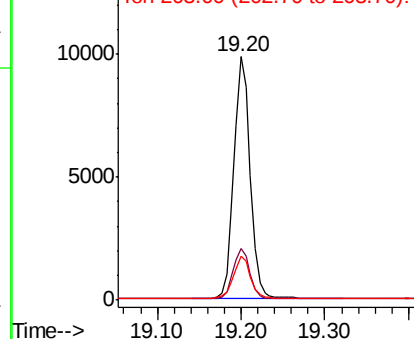
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 16.6  | 25.0  |
| 203     | 18.0  | 13.8  | 20.8  |

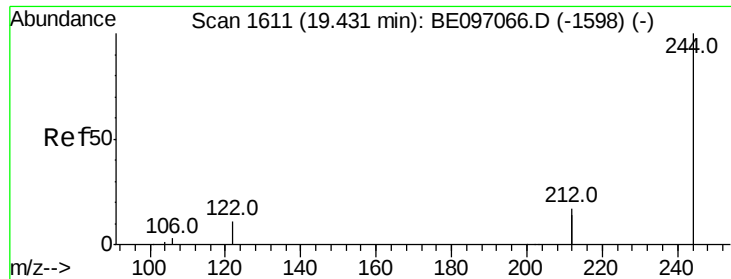
Abundance

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





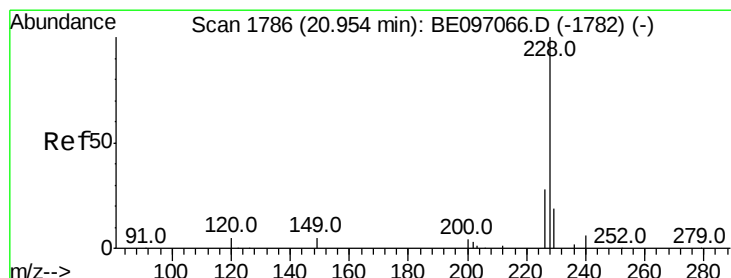
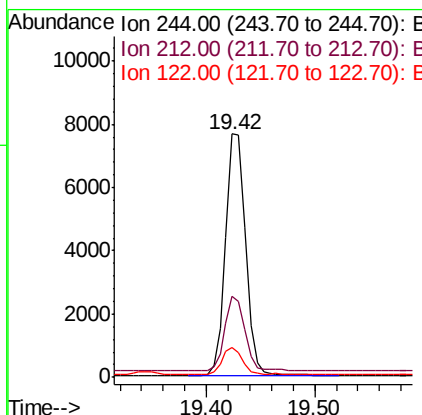
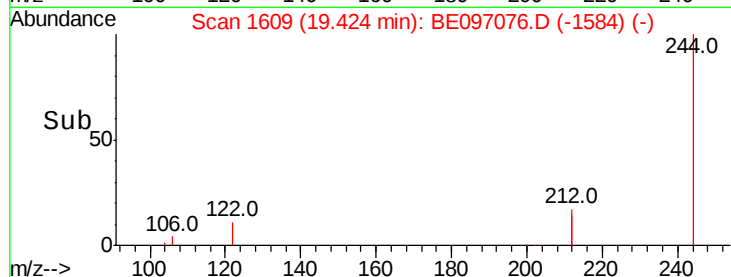
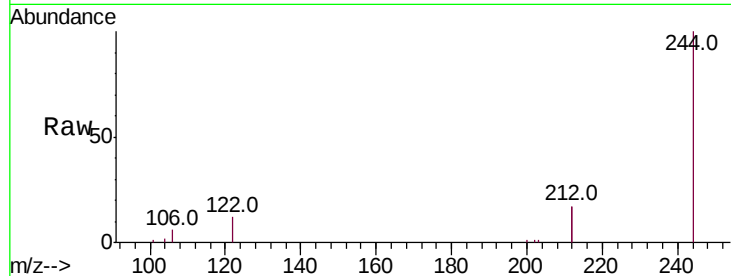
#29  
 Terphenyl-d14  
 Concen: 0.445 ng  
 RT: 19.42 min Scan# 1609  
 Delta R.T. -0.01 min  
 Lab File: BE097076.D  
 Acq: 24 Jul 2018 17:48

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 33.1  | 25.4  | 38.0  |
| 122     | 12.5  | 8.1   | 12.1  |

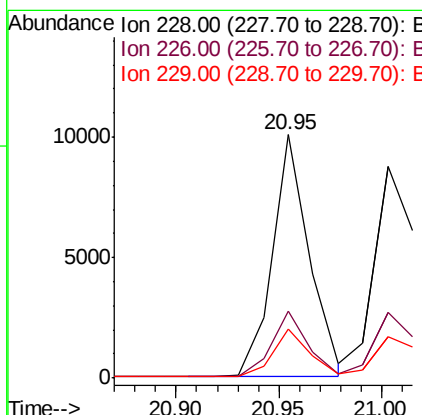
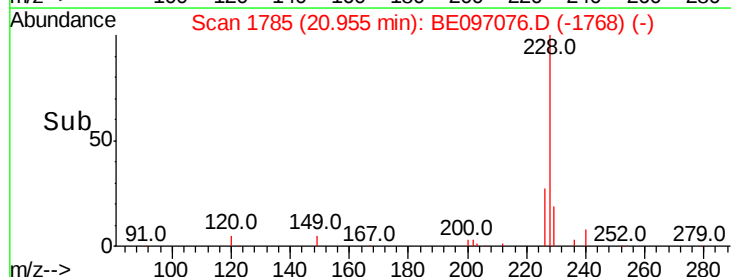
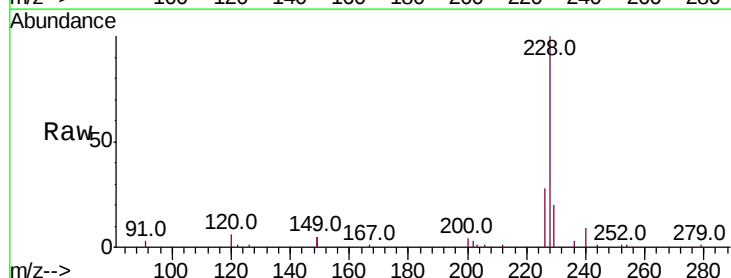
Manual Integrations  
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#30  
 Benzo(a)anthracene  
 Concen: 0.438 ng  
 RT: 20.95 min Scan# 1785  
 Delta R.T. 0.00 min  
 Lab File: BE097076.D  
 Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.7  | 24.0  | 36.0  |
| 229     | 20.0  | 16.0  | 24.0  |





#31

Chrysene

Concen: 0.403 ng

RT: 21.00 min Scan# 1789

Delta R.T. -0.01 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

Instrument :

BNA\_E

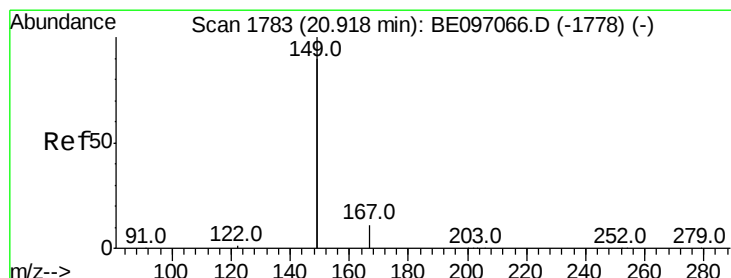
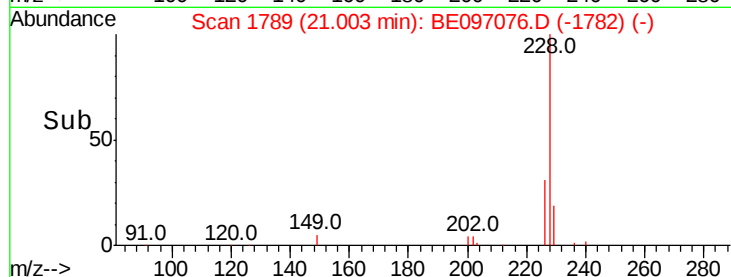
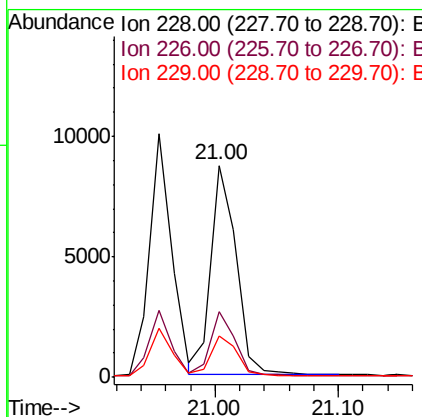
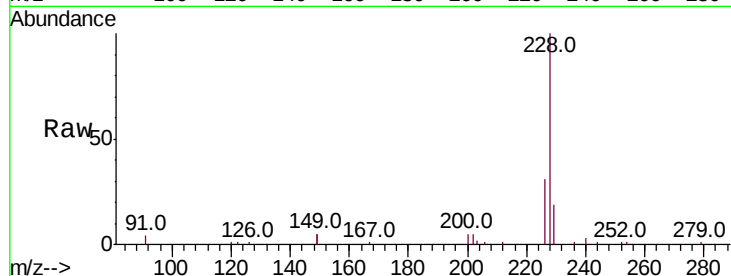
ClientSampleId :

RE123D3-071818MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 12453 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.1  | 24.0  | 36.0  |
| 229       | 19.5  | 16.0  | 24.0  |

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.962 ng

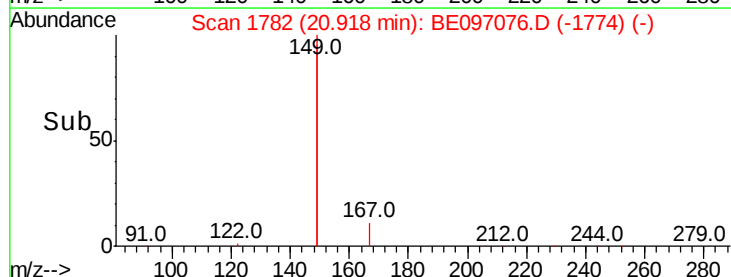
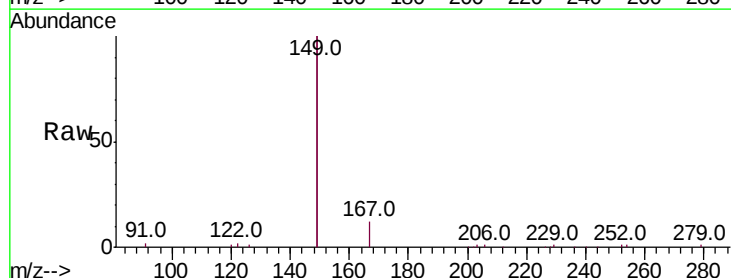
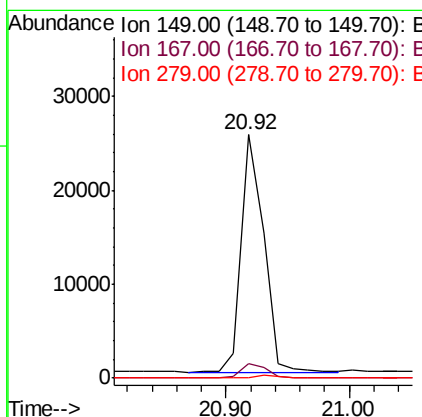
RT: 20.92 min Scan# 1782

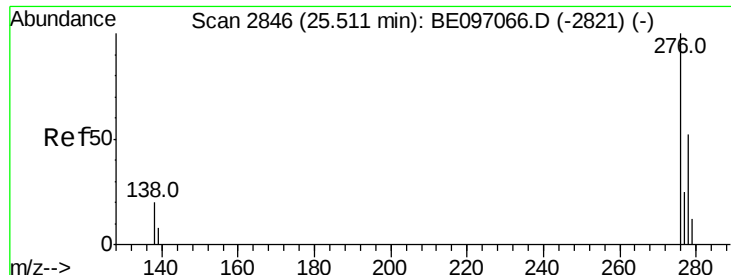
Delta R.T. 0.00 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 31803 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 6.4   | 5.4   | 8.0   |
| 279       | 0.9   | 0.7   | 1.1   |





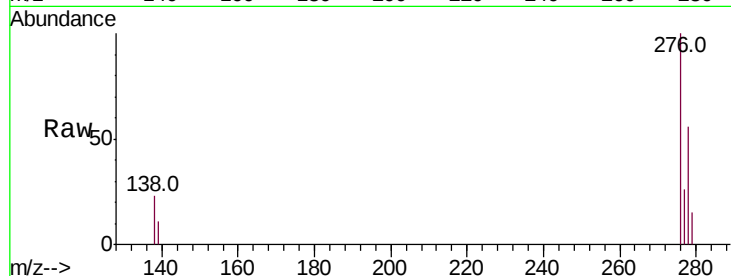
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.431 ng  
RT: 25.50 min Scan# 2843  
Delta R.T. -0.01 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

Instrument :  
BNA\_E  
ClientSampleId :  
RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.1  | 22.5  | 33.7# |
| 277     | 24.6  | 19.9  | 29.9  |

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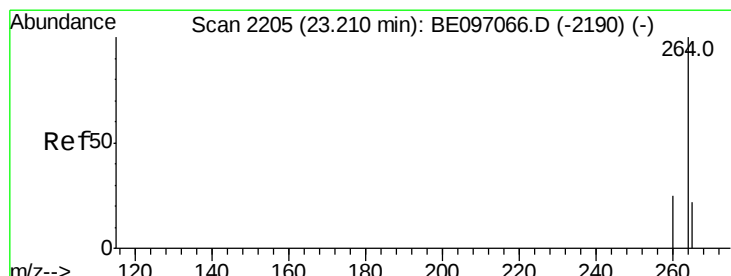
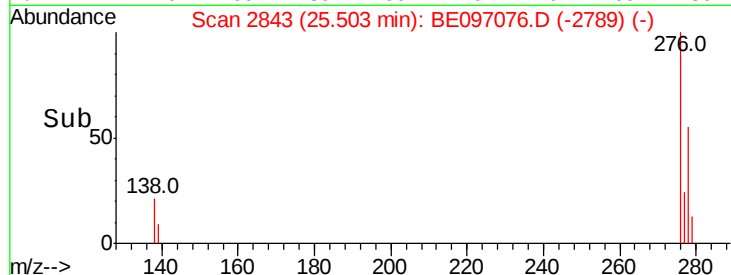
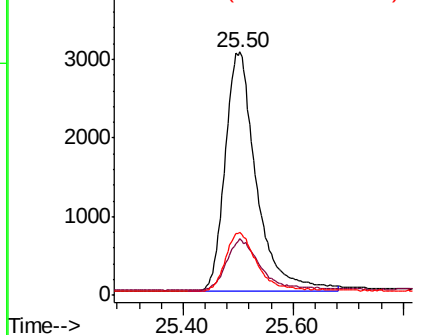


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.21 min Scan# 2203  
Delta R.T. -0.00 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

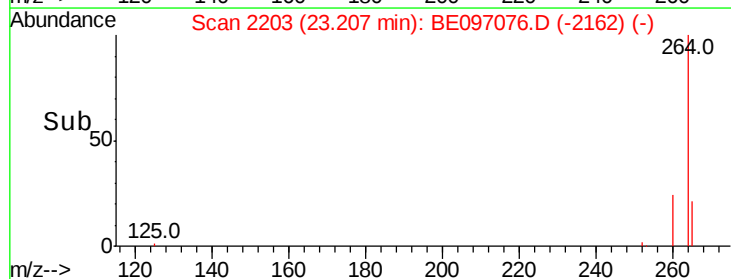
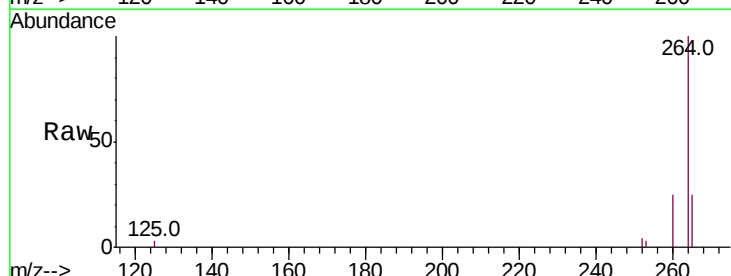
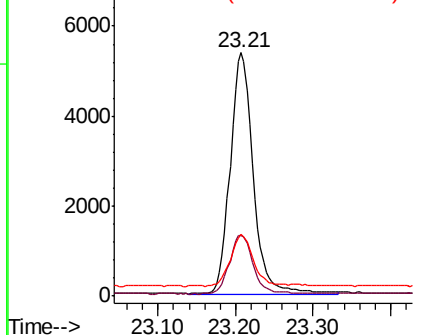
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 20.5  | 30.7  |
| 265     | 25.4  | 22.8  | 34.2  |

Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





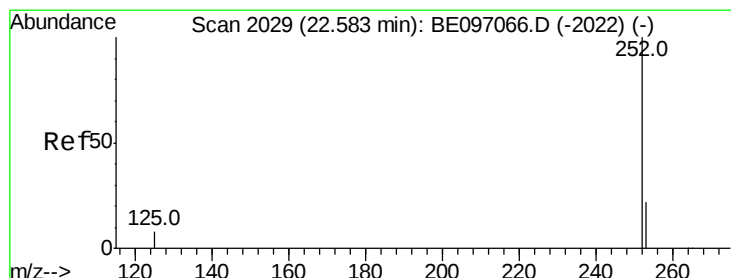
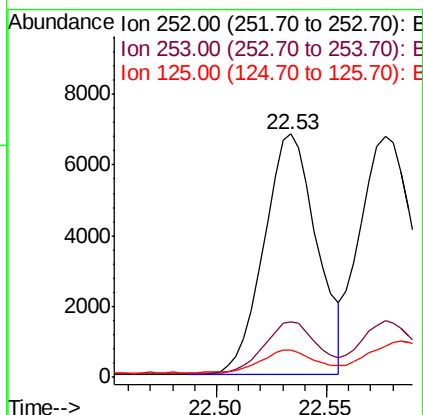
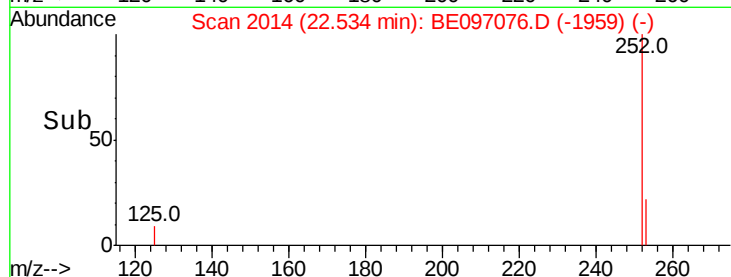
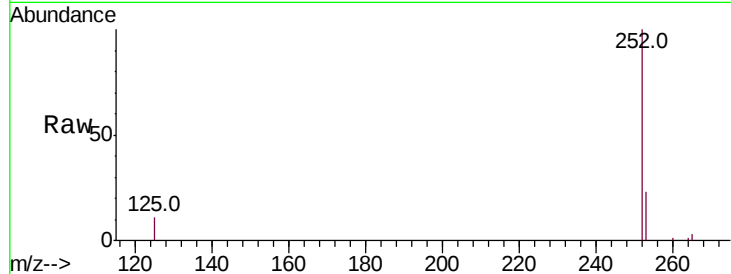
#35  
Benzo(b)fluoranthene  
Concen: 0.407 ng  
RT: 22.53 min Scan# 2014  
Delta R.T. -0.00 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

Instrument :  
BNA\_E  
ClientSampleId :  
RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 20.0  | 30.0  |
| 125     | 11.2  | 16.0  | 24.0  |

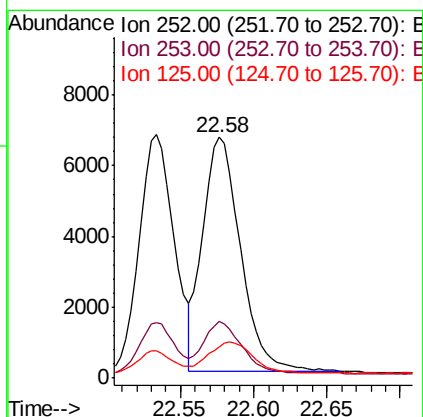
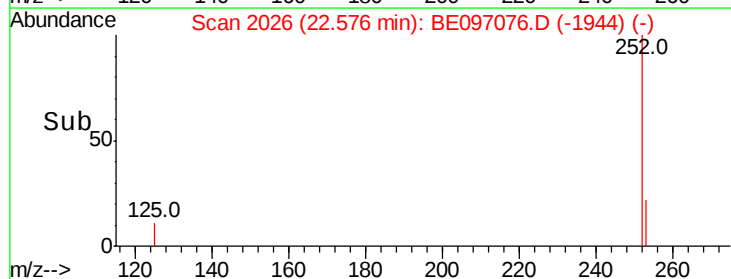
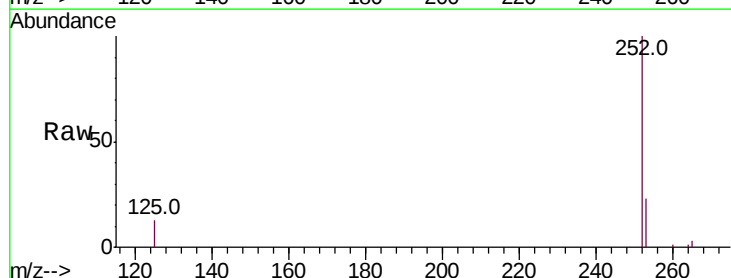
Manual Integrations  
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#36  
Benzo(k)fluoranthene  
Concen: 0.367 ng m  
RT: 22.58 min Scan# 2026  
Delta R.T. -0.01 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 16.0  | 24.0  |
| 125     | 13.2  | 8.0   | 12.0  |





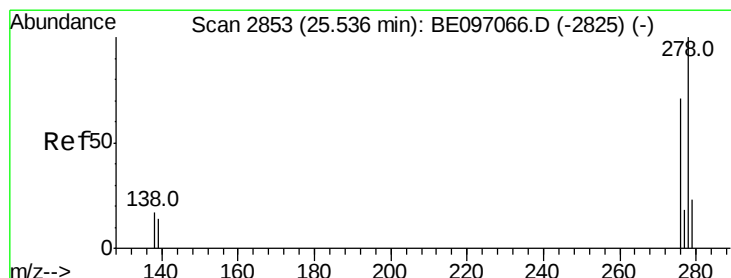
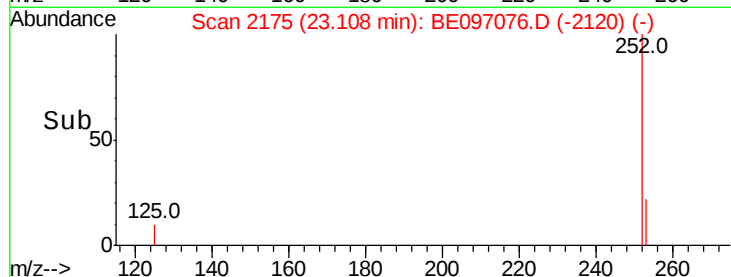
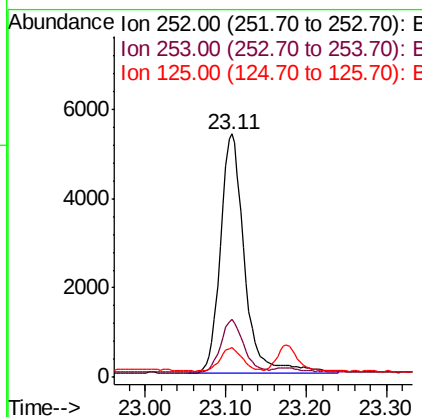
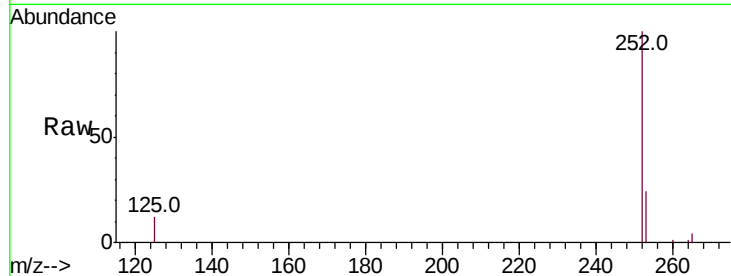
#37  
Benzo(a)pyrene  
Concen: 0.423 ng  
RT: 23.11 min Scan# 2175  
Delta R.T. -0.00 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

Instrument :  
BNA\_E  
ClientSampleId :  
RE123D3-071818MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 16.0  | 24.0  |
| 125     | 12.3  | 12.0  | 18.0  |

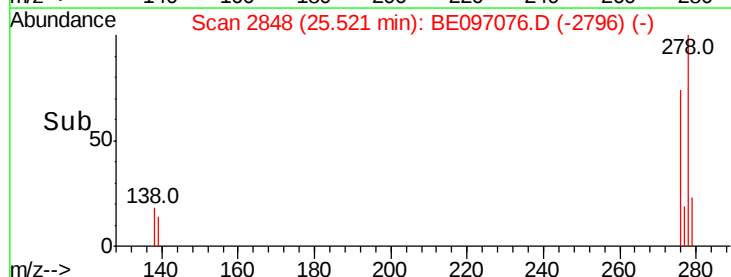
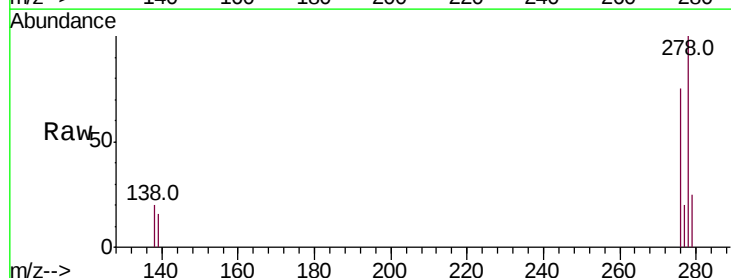
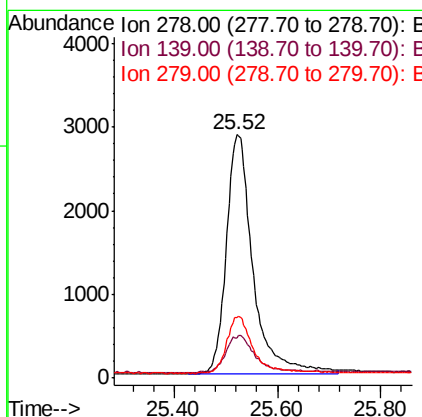
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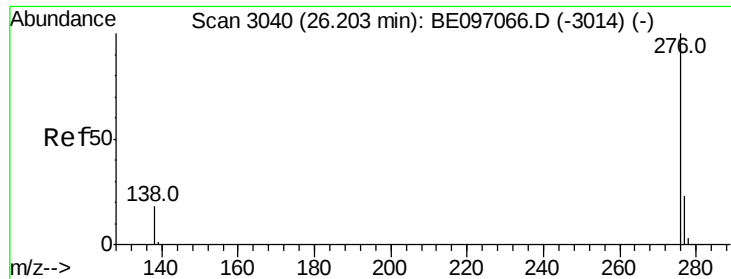
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#38  
Dibenzo(a,h)anthracene  
Concen: 0.390 ng  
RT: 25.52 min Scan# 2848  
Delta R.T. -0.01 min  
Lab File: BE097076.D  
Acq: 24 Jul 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 16.2  | 16.0  | 24.0  |
| 279     | 24.9  | 20.0  | 30.0  |





#39

Benzo(a,h,i)perylene

Concen: 0.376 ng

RT: 26.19 min Scan# 3036

Delta R.T. -0.01 min

Lab File: BE097076.D

Acq: 24 Jul 2018 17:48

Instrument :

BNA\_E

ClientSampleId :

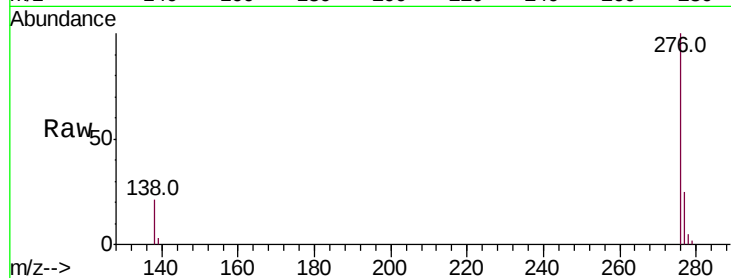
RE123D3-071818MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 10486 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.5  | 16.0  | 24.0# |
| 138       | 20.6  | 20.0  | 30.0  |

Manual Integrations  
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Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

