

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE072318\  
 Data File : BE097033.D  
 Acq On : 23 Jul 2018 12:13  
 Operator : SJ/JU  
 Sample : PB111327BS  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB111327BS

Manual Integrations  
 APPROVED

Sohil  
 7/24/2018 8:47:17 AM

Quant Time: Jul 23 12:51:49 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE071618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 20 11:34:20 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)       |
|--------------------------------|-------|------|----------|-------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.40  | 152  | 1279     | 0.40  | ng    | 0.00           |
| 7) Naphthalene-d8              | 10.15 | 136  | 5406     | 0.40  | ng    | 0.00           |
| 13) Acenaphthene-d10           | 14.01 | 164  | 2459     | 0.40  | ng    | 0.00           |
| 19) Phenanthrene-d10           | 16.76 | 188  | 5982     | 0.40  | ng    | 0.00           |
| 27) Chrysene-d12               | 20.98 | 240  | 6755     | 0.40  | ng    | 0.00           |
| 34) Perylene-d12               | 23.21 | 264  | 5877     | 0.40  | ng    | 0.00           |
| System Monitoring Compounds    |       |      |          |       |       |                |
| 4) 2-Fluorophenol              | 5.06  | 112  | 1207     | 0.39  | ng    | 0.00           |
| 5) Phenol-d6                   | 6.59  | 99   | 1520     | 0.33  | ng    | 0.00           |
| 8) Nitrobenzene-d5             | 8.53  | 82   | 1706     | 0.43  | ng    | 0.00           |
| 11) 2-Methylnaphthalene-d10    | 11.73 | 152  | 3393     | 0.43  | ng    | 0.00           |
| 14) 2,4,6-Tribromophenol       | 15.52 | 330  | 118      | 0.25  | ng    | 0.00           |
| 15) 2-Fluorobiphenyl           | 12.63 | 172  | 4010     | 0.44  | ng    | 0.00           |
| 25) Fluoranthene-d10           | 18.81 | 212  | 24395    | 0.47  | ng    | 0.00           |
| 29) Terphenyl-d14              | 19.43 | 244  | 6207     | 0.48  | ng    | 0.00           |
| Target Compounds               |       |      |          |       |       |                |
| 2) 1,4-Dioxane                 | 3.10  | 88   | 692      | 0.378 | ng    | Qvalue<br># 48 |
| 3) n-Nitrosodimethylamine      | 3.38  | 42   | 981      | 0.476 | ng    | # 86           |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93   | 1754     | 0.383 | ng    | 93             |
| 9) Naphthalene                 | 10.20 | 128  | 20421    | 0.422 | ng    | 100            |
| 10) Hexachlorobutadiene        | 10.48 | 225  | 892      | 0.456 | ng    | 96             |
| 12) 2-Methylnaphthalene        | 11.81 | 142  | 3147     | 0.383 | ng    | 99             |
| 16) Acenaphthylene             | 13.74 | 152  | 4357     | 0.388 | ng    | 99             |
| 17) Acenaphthene               | 14.08 | 154  | 2587     | 0.371 | ng    | # 90           |
| 18) Fluorene                   | 15.07 | 166  | 3111     | 0.397 | ng    | # 80           |
| 20) 4-Bromophenyl-phenylether  | 15.97 | 248  | 1085     | 0.384 | ng    | # 77           |
| 21) Hexachlorobenzene          | 16.08 | 284  | 1252     | 0.398 | ng    | # 84           |
| 22) Pentachlorophenol          | 16.44 | 266  | 237      | 0.506 | ng    | # 81           |
| 23) Phenanthrene               | 16.81 | 178  | 5917m    | 0.413 | ng    |                |
| 24) Anthracene                 | 16.90 | 178  | 5064     | 0.406 | ng    | 96             |
| 26) Fluoranthene               | 18.84 | 202  | 6712     | 0.444 | ng    | 98             |
| 28) Pyrene                     | 19.21 | 202  | 6826     | 0.342 | ng    | 99             |
| 30) Benzo(a)anthracene         | 20.96 | 228  | 6487     | 0.403 | ng    | 98             |
| 31) Chrysene                   | 21.00 | 228  | 7488     | 0.415 | ng    | 97             |
| 32) Bis(2-ethylhexyl)phthalate | 20.92 | 149  | 5216     | 0.325 | ng    | # 99           |
| 33) Indeno(1,2,3-cd)pyrene     | 25.51 | 276  | 6375     | 0.485 | ng    | # 91           |
| 35) Benzo(b)fluoranthene       | 22.53 | 252  | 6049     | 0.403 | ng    | # 89           |
| 36) Benzo(k)fluoranthene       | 22.58 | 252  | 7316     | 0.410 | ng    | 95             |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 5577     | 0.428 | ng    | 93             |
| 38) Dibenzo(a,h)anthracene     | 25.53 | 278  | 5103     | 0.466 | ng    | 97             |
| 39) Benzo(g,h,i)perylene       | 26.20 | 276  | 5780     | 0.474 | ng    | # 89           |

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

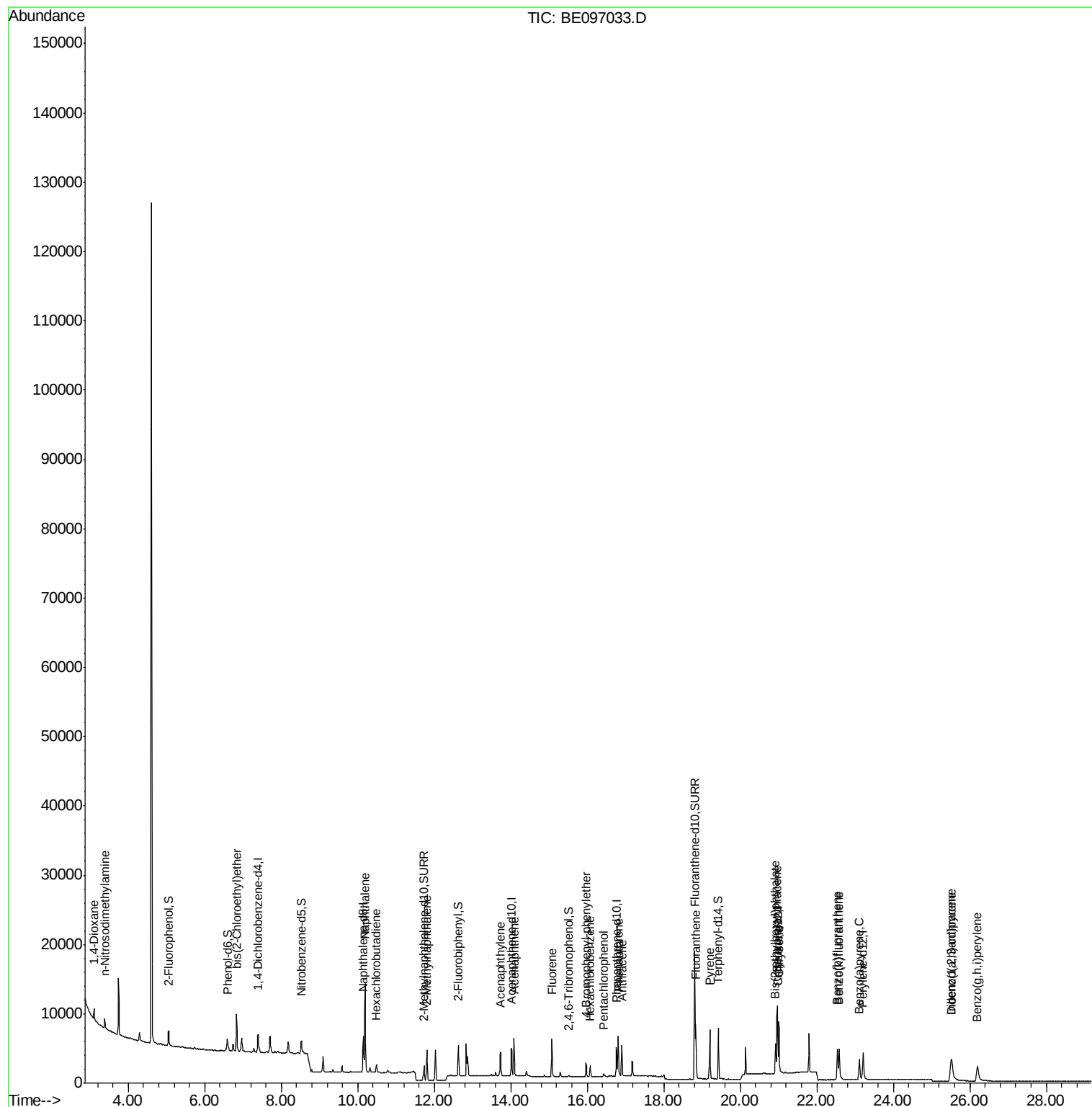
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE072318\  
Data File : BE097033.D  
Acq On : 23 Jul 2018 12:13  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 20 11:34:20 2018  
Response via : Initial Calibration

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#1

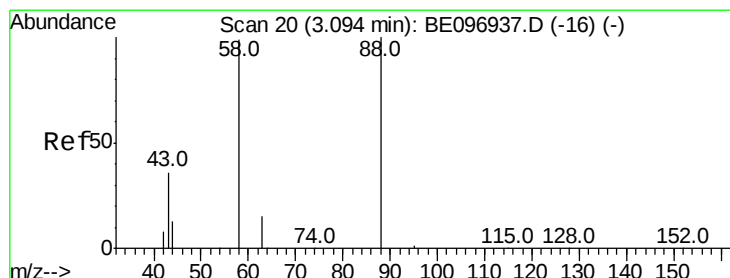
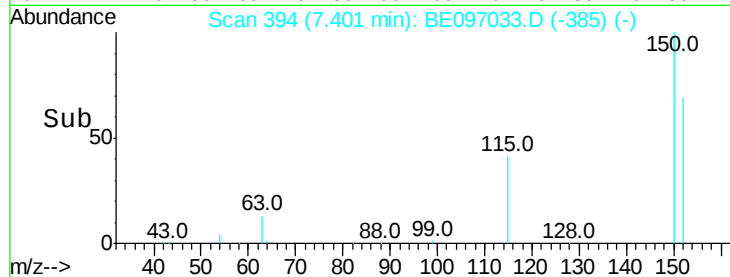
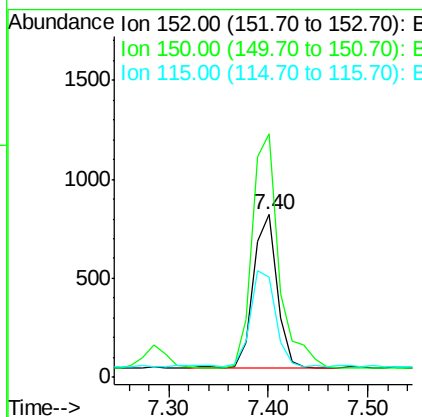
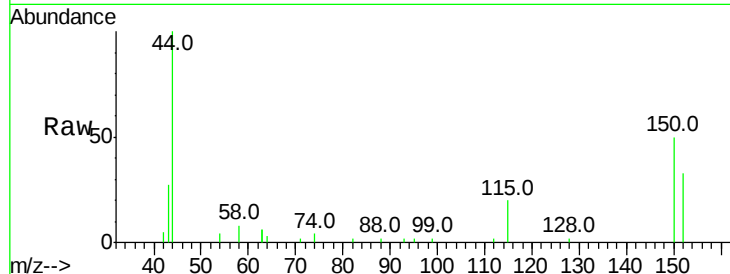
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.40 min Scan# 394  
Delta R.T. 0.01 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

Instrument :  
BNA\_E  
ClientSampleId :  
PB111327BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.9 | 117.2 | 175.8 |
| 115     | 61.8  | 57.0  | 85.6  |

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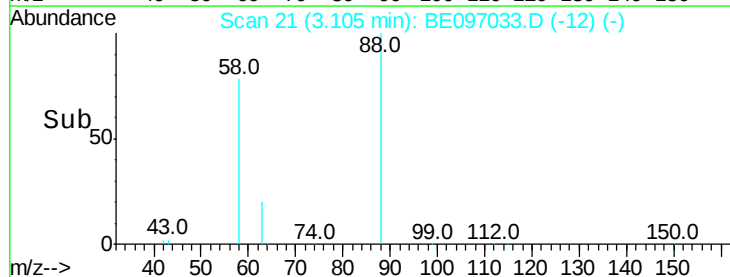
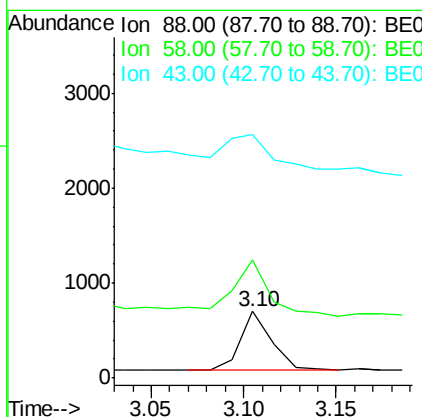
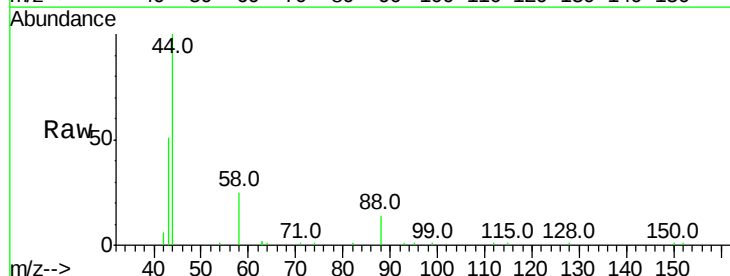
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#2

1,4-Dioxane  
Concen: 0.378 ng  
RT: 3.10 min Scan# 21  
Delta R.T. 0.01 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 128.8 | 63.2  | 94.8# |
| 43      | 82.9  | 41.2  | 61.8# |





#3

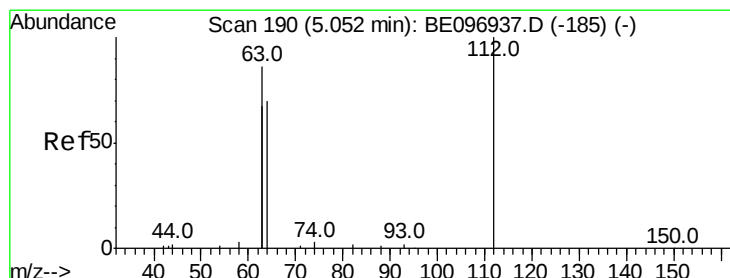
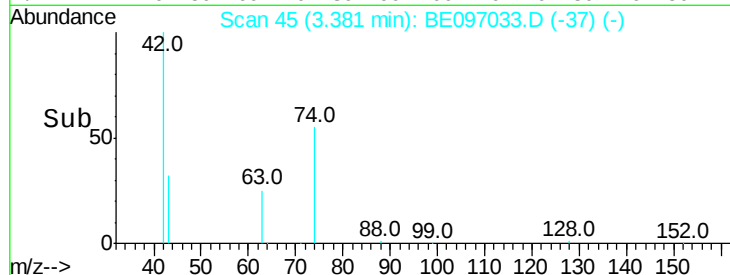
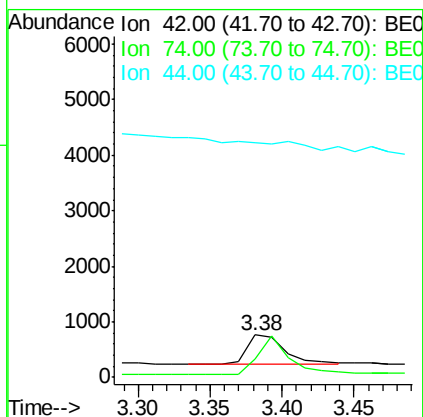
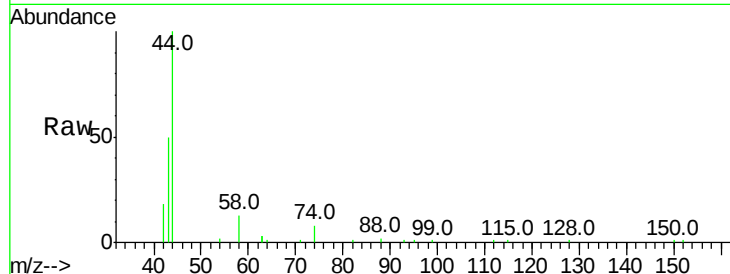
n-Nitrosodimethylamine  
Concen: 0.476 ng  
RT: 3.38 min Scan# 45  
Delta R.T. -0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

Instrument :  
BNA\_E  
ClientSampleId :  
PB111327BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 107.7 | 96.0  | 144.0 |
| 44      | 0.0   | 12.0  | 18.0# |

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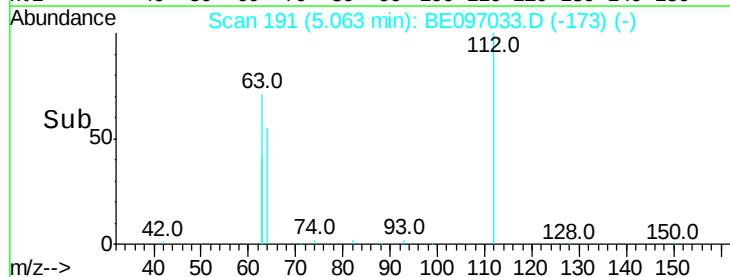
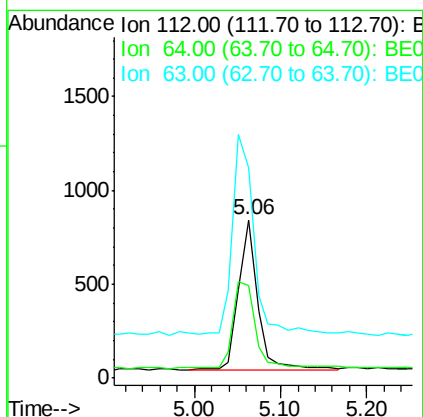
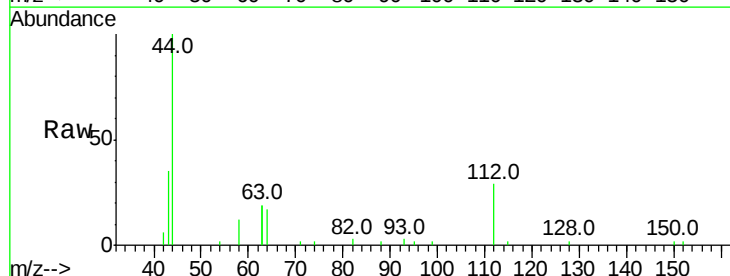
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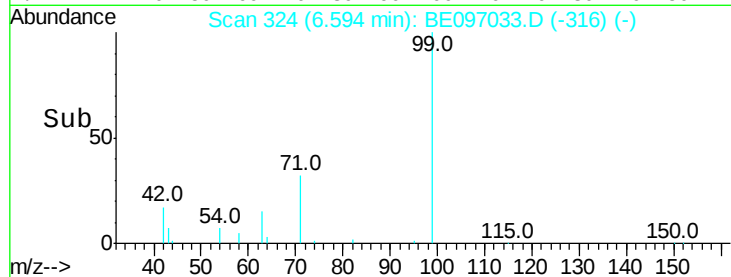
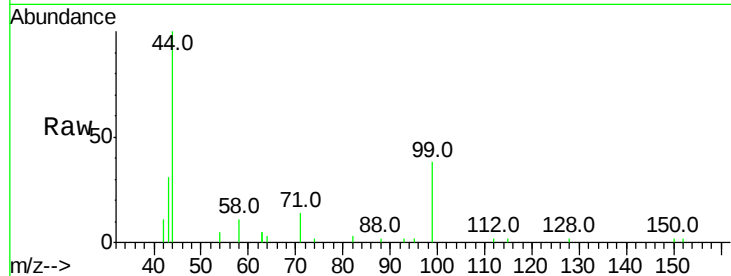
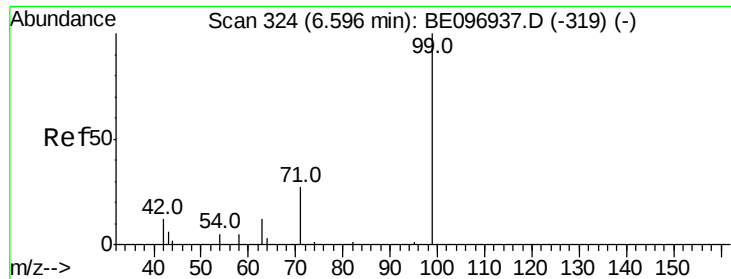


#4

2-Fluorophenol  
Concen: 0.394 ng  
RT: 5.06 min Scan# 191  
Delta R.T. 0.01 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 71.6  | 60.1  | 90.1  |
| 63      | 150.7 | 116.8 | 175.2 |





#5

Phenol-d6

Concen: 0.326 ng

RT: 6.59 min Scan# 324

Delta R.T. -0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 1520  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 22.0  | 20.2  | 30.2  |
| 71       | 35.4  | 28.4  | 42.6  |

Instrument :

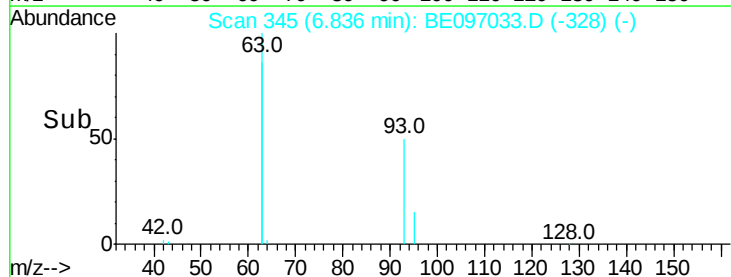
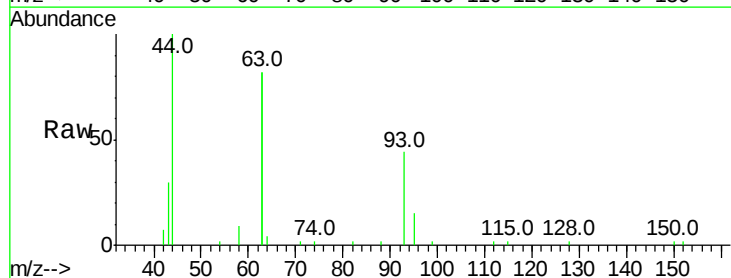
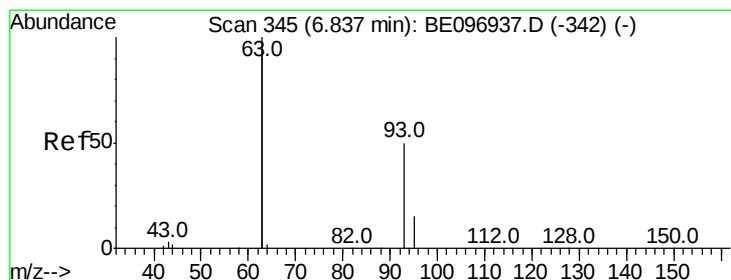
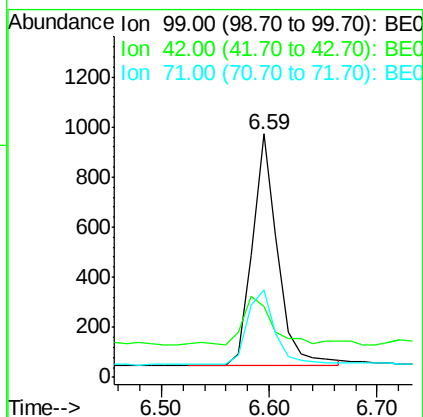
BNA\_E

ClientSampleId :

PB111327BS

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#6

bis(2-Chloroethyl)ether

Concen: 0.383 ng

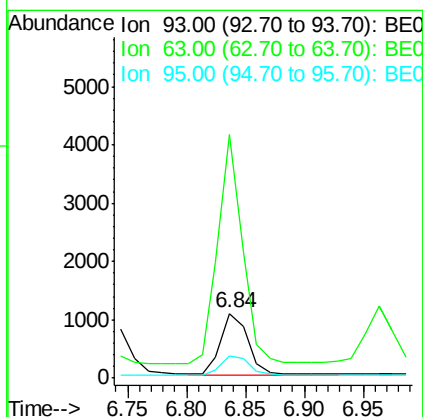
RT: 6.84 min Scan# 345

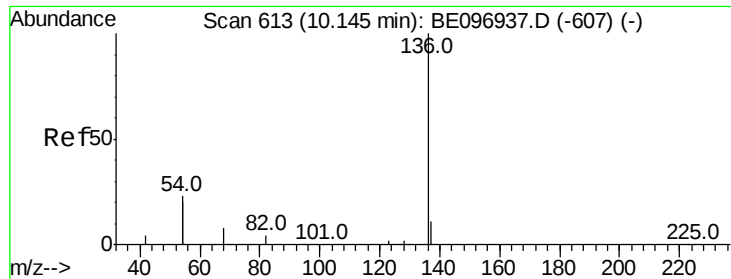
Delta R.T. -0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1754  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 327.2 | 275.3 | 412.9 |
| 95       | 30.6  | 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: BE097033.D

Acq: 23 Jul 2018 12:13

Instrument :

BNA\_E

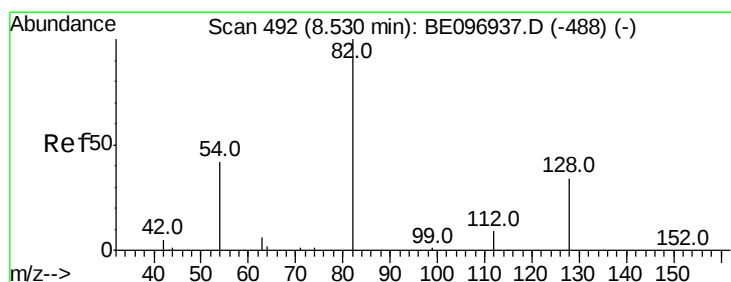
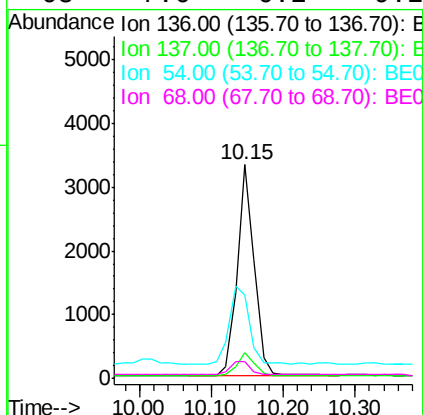
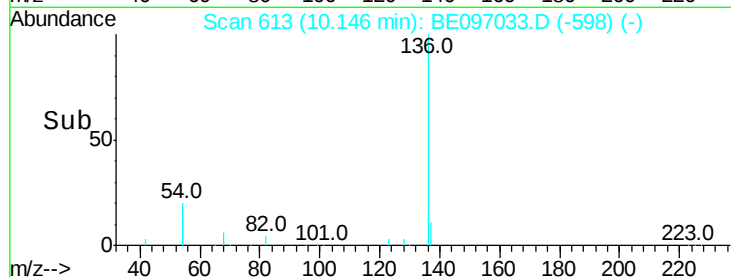
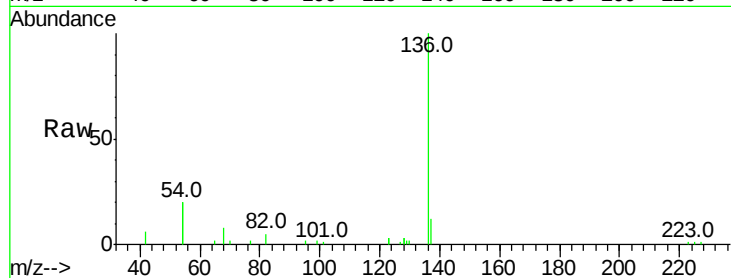
ClientSampleId :

PB111327BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 136   | Resp: | 5406 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.1  | 9.5   | 14.3 |
| 54        | 39.0  | 29.1  | 43.7 |
| 68        | 7.6   | 6.2   | 9.2  |

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#8

Nitrobenzene-d5

Concen: 0.433 ng

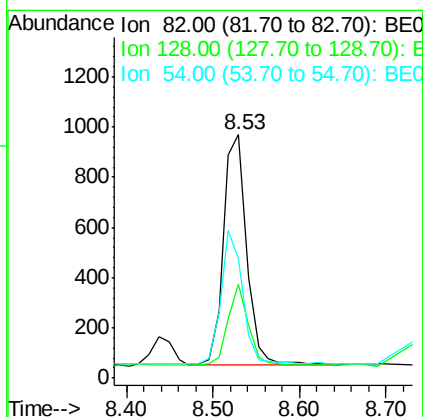
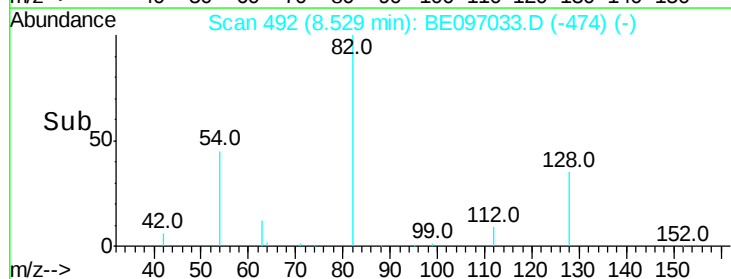
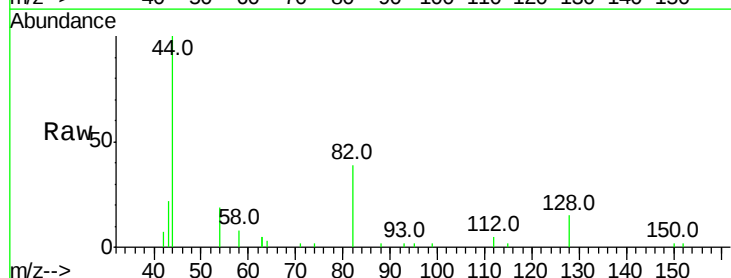
RT: 8.53 min Scan# 492

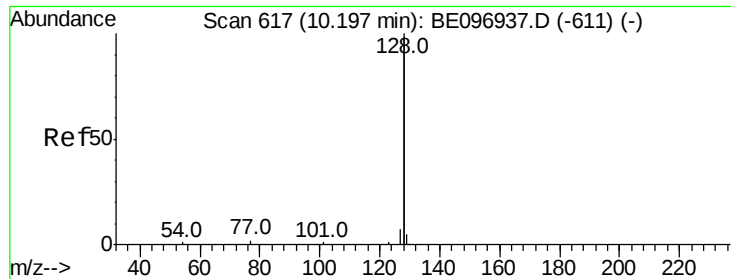
Delta R.T. 0.01 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 1706  |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 38.6  | 24.0  | 36.0# |
| 54        | 49.1  | 40.0  | 60.0  |





#9

Naphthalene

Concen: 0.422 ng

RT: 10.20 min Scan# 617

Delta R.T. -0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

Instrument :

BNA\_E

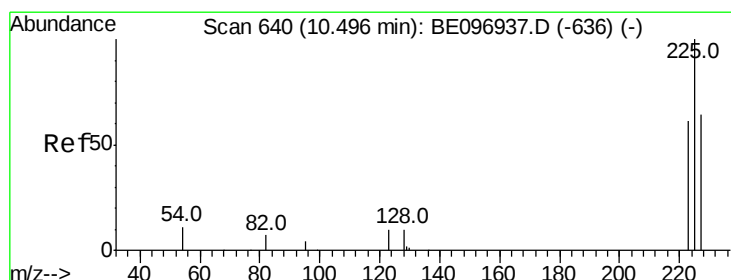
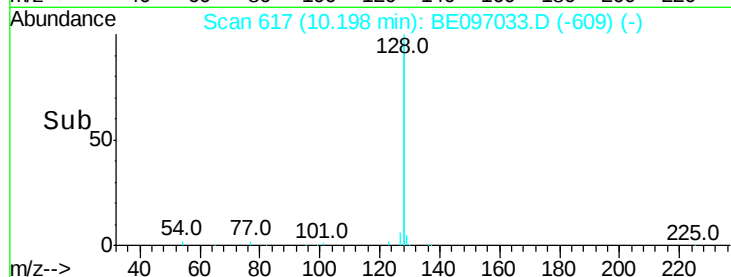
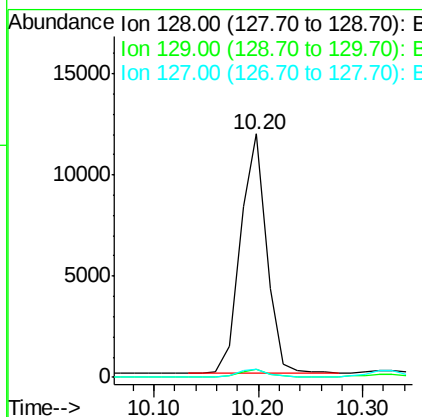
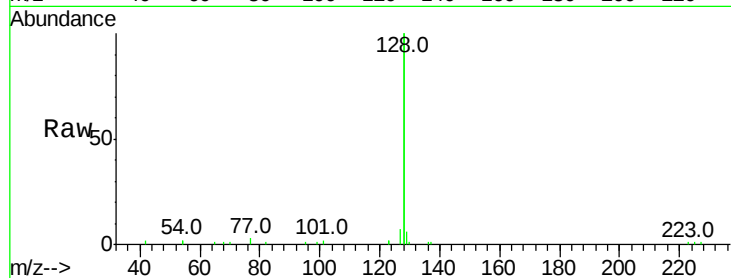
ClientSampleId :

PB111327BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 20421 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.1   | 2.6   | 3.8   |
| 127       | 3.5   | 2.8   | 4.2   |

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#10

Hexachlorobutadiene

Concen: 0.456 ng

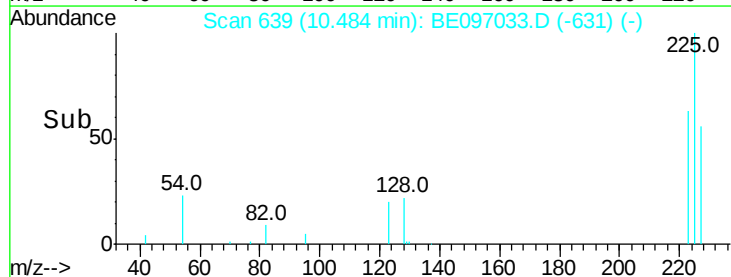
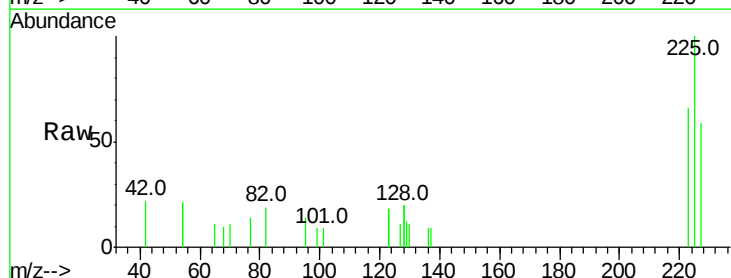
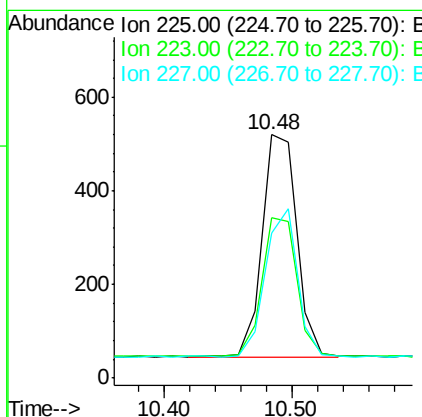
RT: 10.48 min Scan# 639

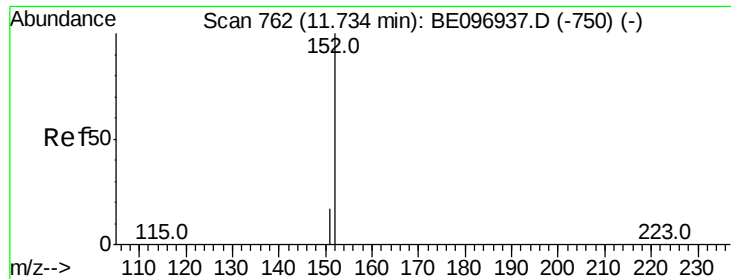
Delta R.T. -0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 892  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 62.8  | 53.0  | 79.6 |
| 227       | 61.9  | 51.4  | 77.2 |





#11

2-Methylnaphthalene-d10

Concen: 0.431 ng

RT: 11.73 min Scan# 761

Delta R.T. 0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

Instrument :

BNA\_E

ClientSampleId :

PB111327BS

Tot Ion:152 Resp: 3393

Ion Ratio Lower Upper

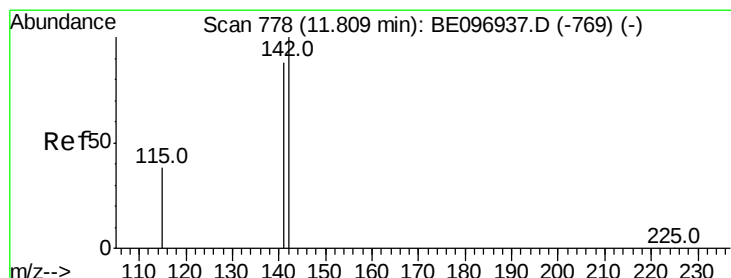
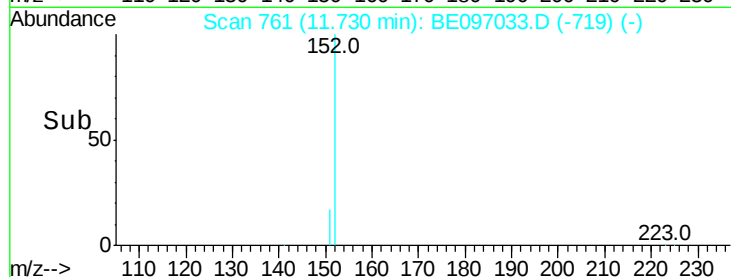
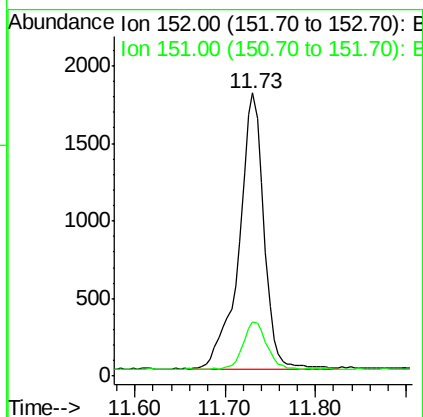
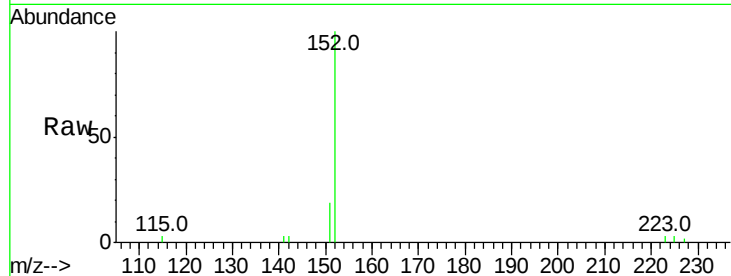
152 100

151 15.9 15.4 23.0

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#12

2-Methylnaphthalene

Concen: 0.383 ng

RT: 11.81 min Scan# 777

Delta R.T. 0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

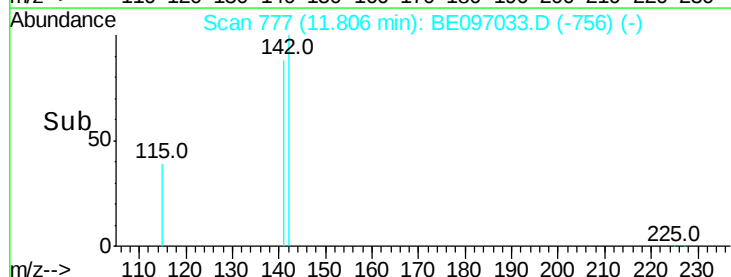
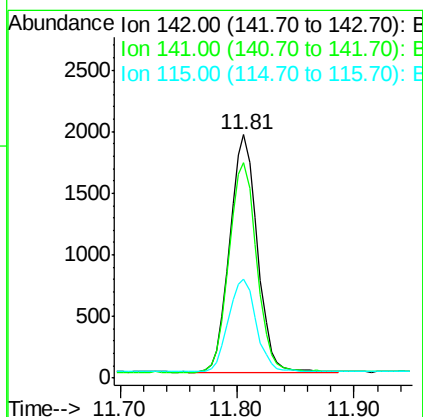
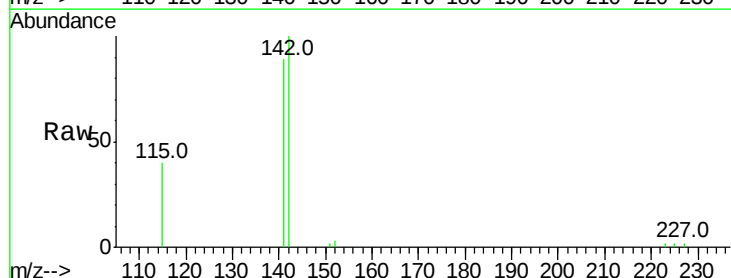
Tgt Ion:142 Resp: 3147

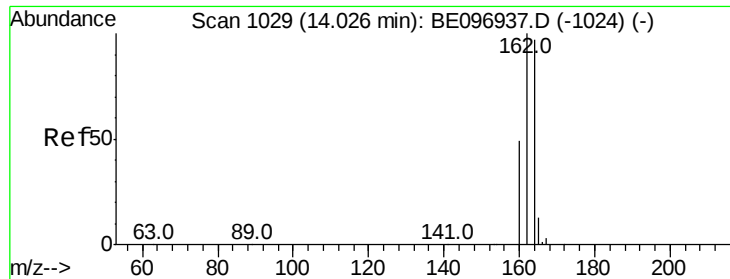
Ion Ratio Lower Upper

142 100

141 88.6 70.4 105.6

115 40.5 31.7 47.5





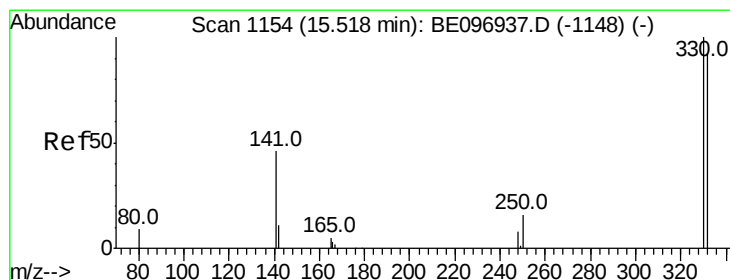
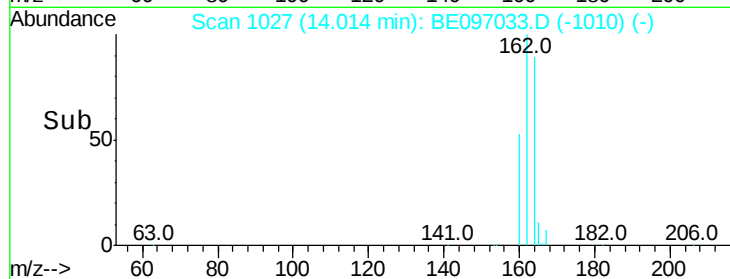
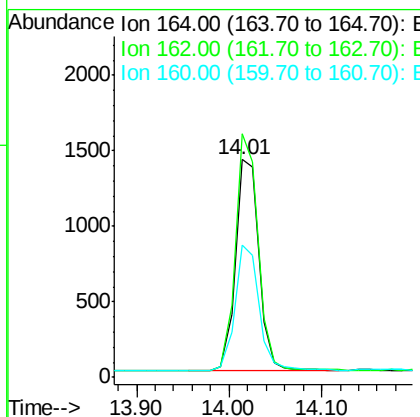
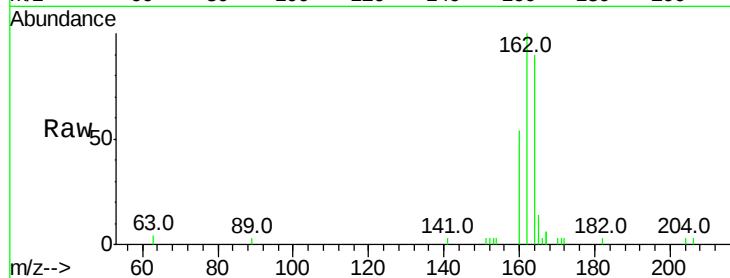
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.01 min Scan# 1027  
 Delta R.T. -0.00 min  
 Lab File: BE097033.D  
 Acq: 23 Jul 2018 12:13

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB111327BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 111.7 | 83.1  | 124.7 |
| 160     | 60.6  | 37.1  | 55.7  |

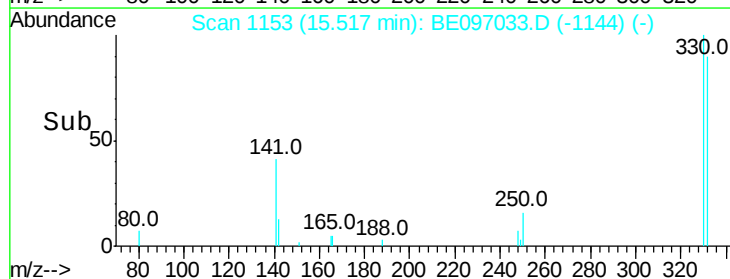
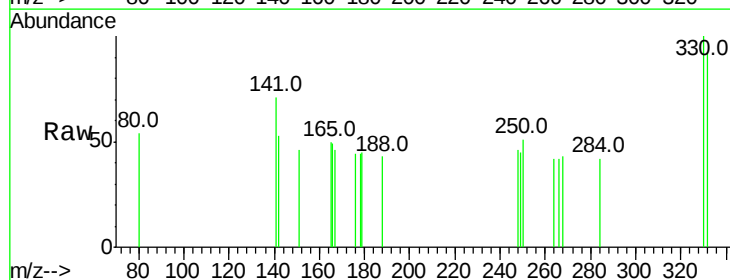
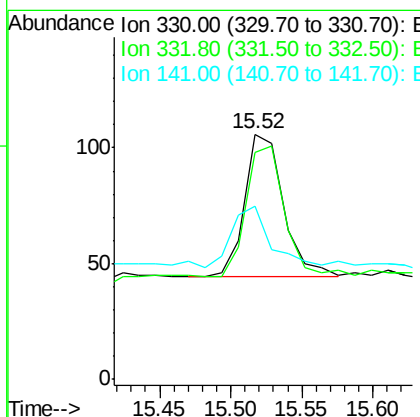
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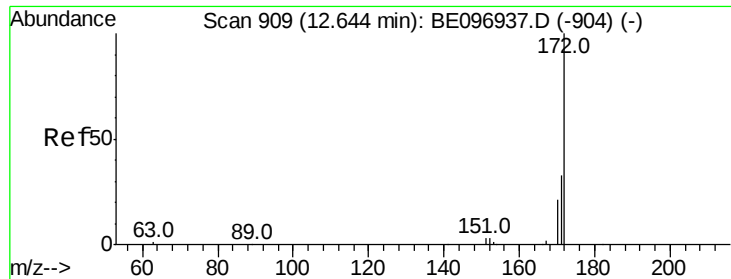
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#14  
 2,4,6-Tribromophenol  
 Concen: 0.249 ng  
 RT: 15.52 min Scan# 1153  
 Delta R.T. -0.00 min  
 Lab File: BE097033.D  
 Acq: 23 Jul 2018 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 89.0  | 152.7 | 229.1 |
| 141     | 39.8  | 33.7  | 50.5  |





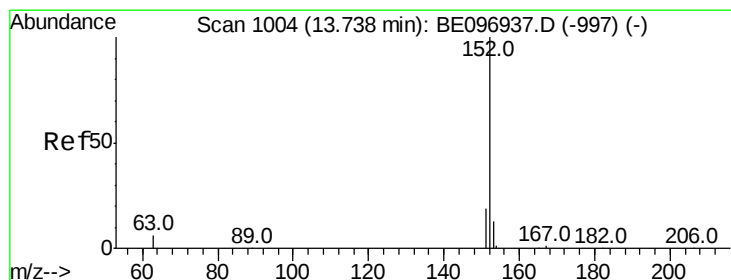
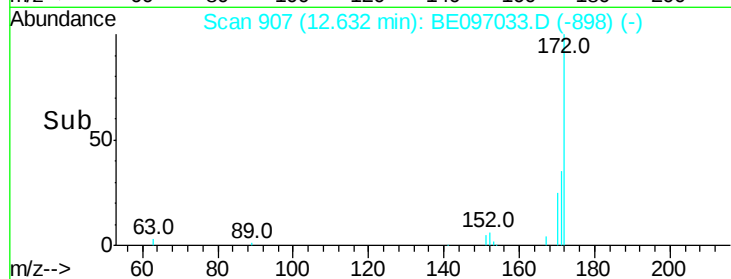
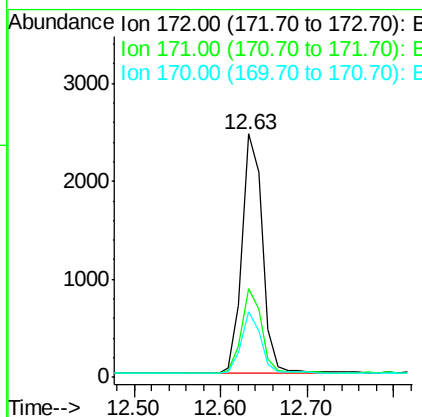
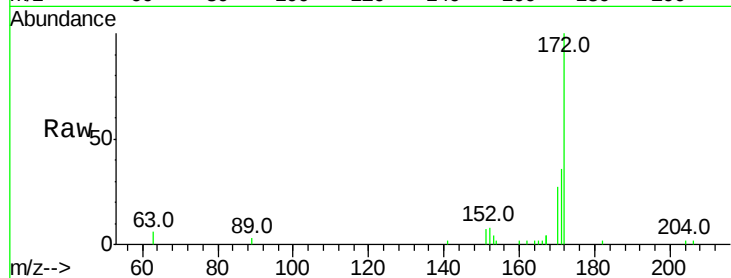
#15  
2-Fluorobiphenyl  
Concen: 0.438 ng  
RT: 12.63 min Scan# 907  
Delta R.T. -0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

Instrument :  
BNA\_E  
ClientSampleId :  
PB111327BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.9  | 44.9  |
| 170     | 26.7  | 21.8  | 32.8  |

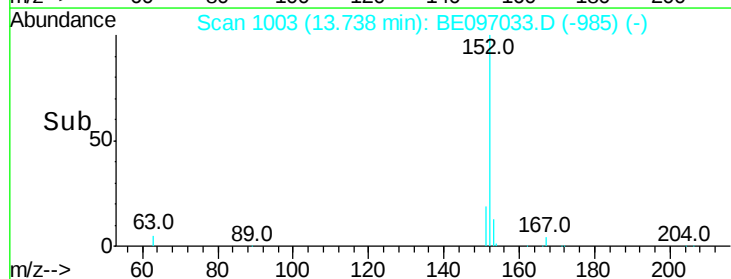
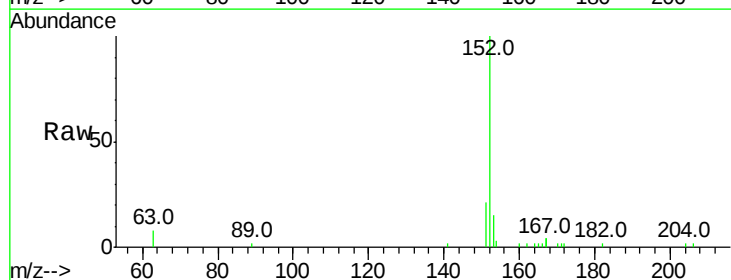
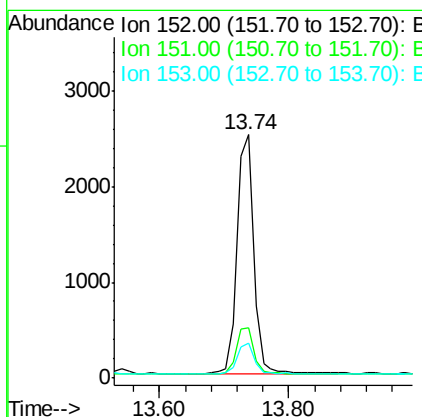
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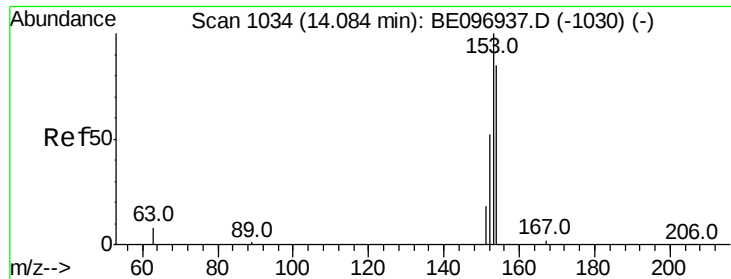
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#16  
Acenaphthylene  
Concen: 0.388 ng  
RT: 13.74 min Scan# 1003  
Delta R.T. 0.01 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 15.7  | 23.5  |
| 153     | 13.0  | 10.5  | 15.7  |





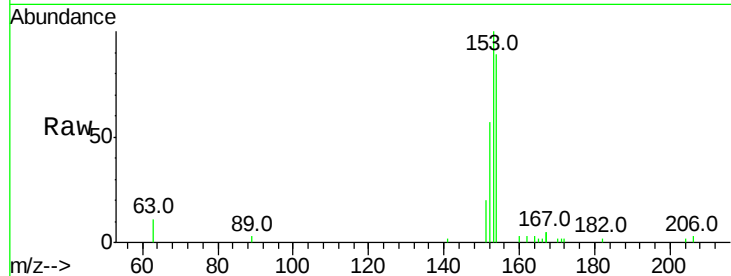
#17  
Acenaphthene  
Concen: 0.371 ng  
RT: 14.08 min Scan# 1033  
Delta R.T. -0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

Instrument :  
BNA\_E  
ClientSampled :  
PB111327BS

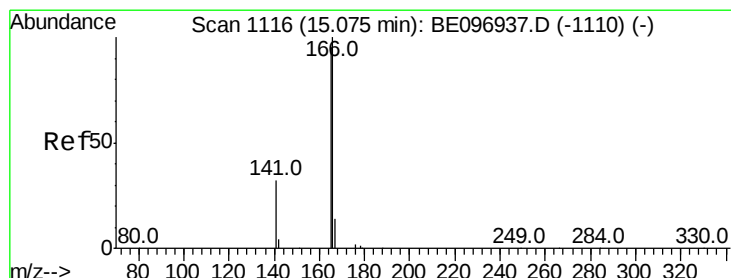
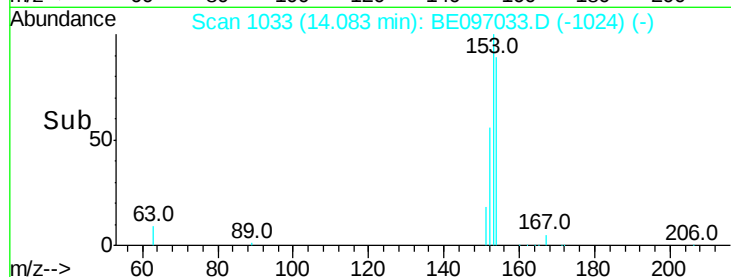
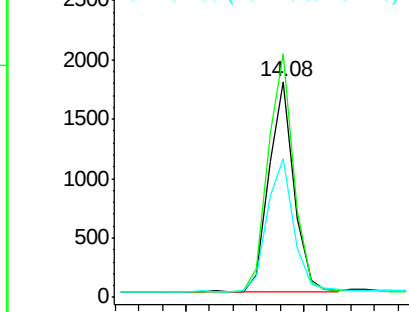
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 115.8 | 89.2  | 133.8 |
| 152     | 67.8  | 42.0  | 63.0# |

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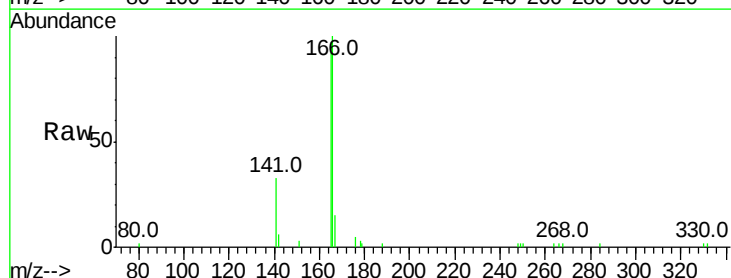


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

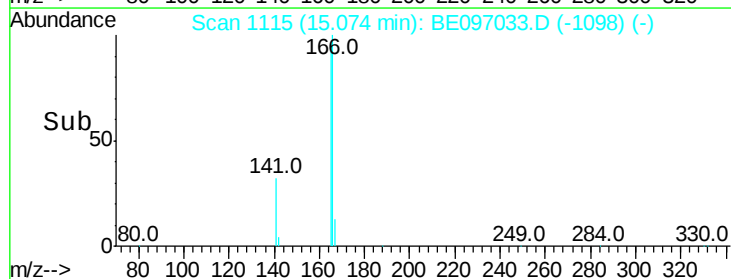
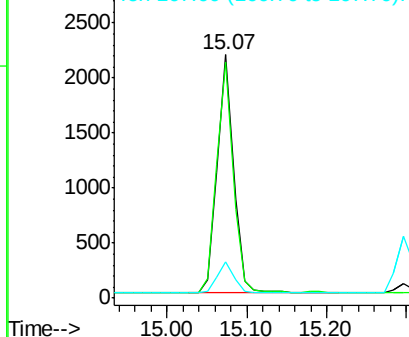


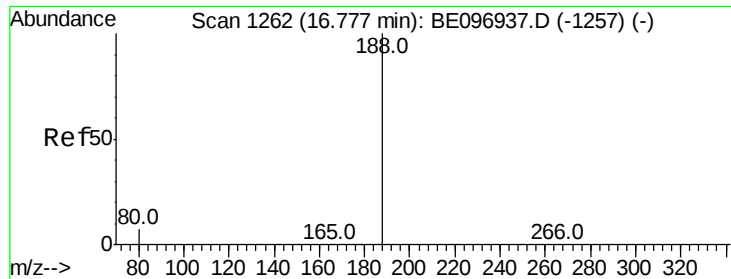
#18  
Fluorene  
Concen: 0.397 ng  
RT: 15.07 min Scan# 1115  
Delta R.T. -0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.3  | 77.8  | 116.6 |
| 167     | 13.4  | 42.4  | 63.6# |



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.76 min Scan# 1260

Delta R.T. -0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

Instrument :

BNA\_E

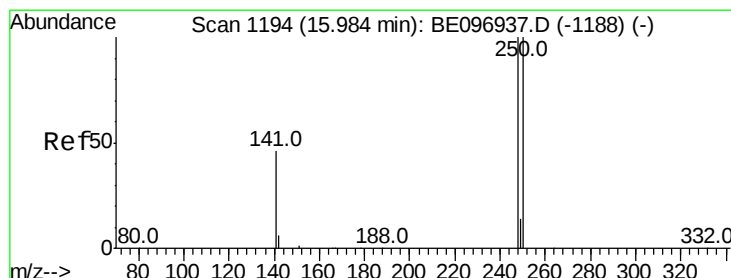
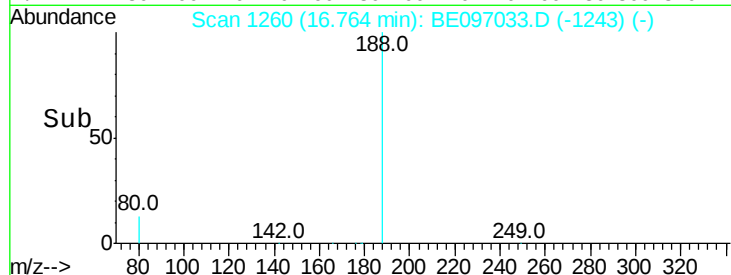
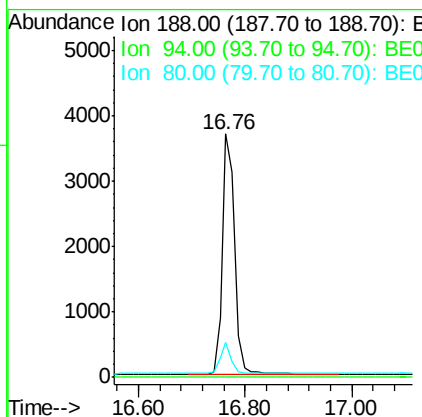
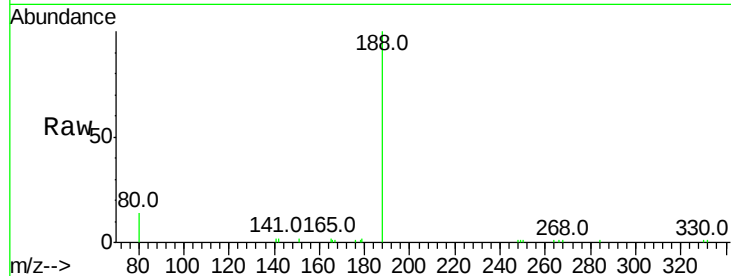
ClientSampled :

PB111327BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 188   | Resp: | 5982 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 3.9   | 5.9# |
| 80        | 14.2  | 3.6   | 5.4# |

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#20

4-Bromophenyl-phenylether

Concen: 0.384 ng

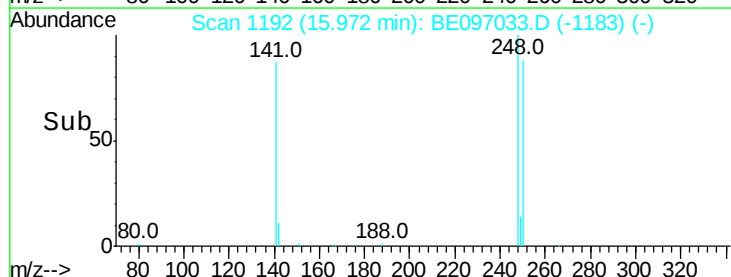
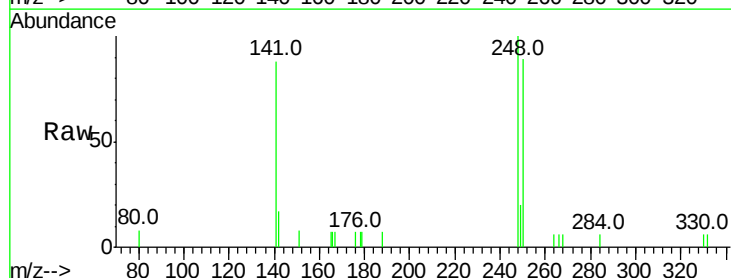
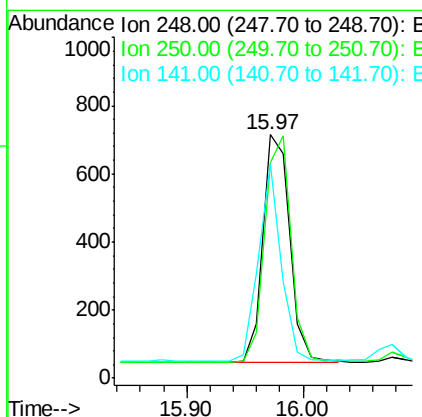
RT: 15.97 min Scan# 1192

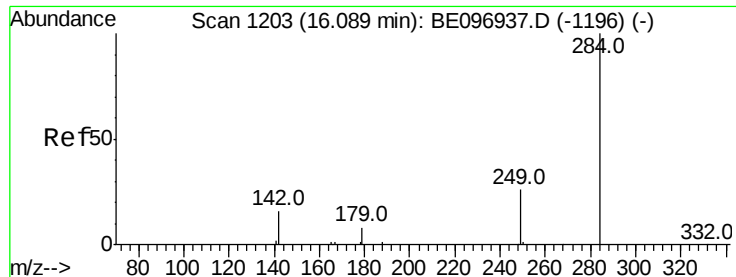
Delta R.T. -0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 1085  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 88.5  | 62.7  | 94.1  |
| 141       | 88.1  | 48.2  | 72.2# |





#21

Hexachlorobenzene

Concen: 0.398 ng

RT: 16.08 min Scan# 1201

Delta R.T. -0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

Instrument :

BNA\_E

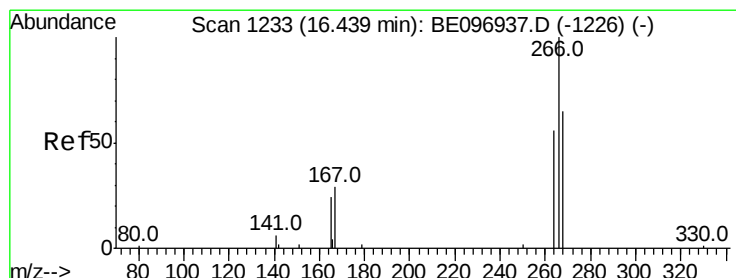
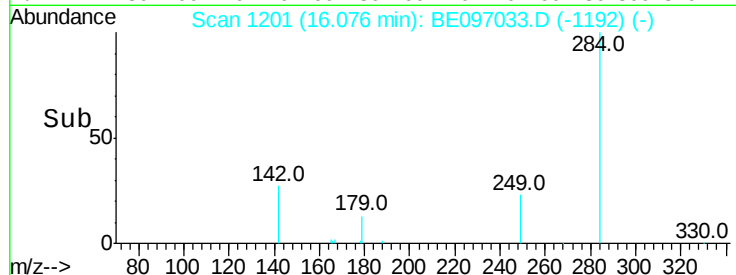
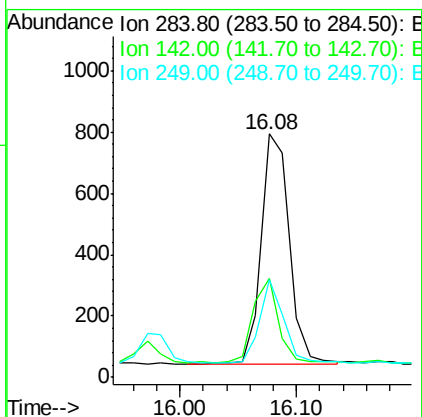
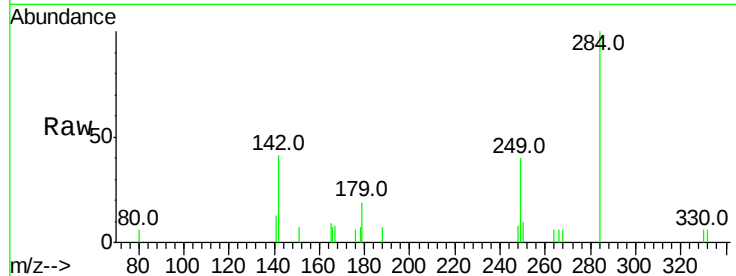
ClientSampleId :

PB111327BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 284   | Resp: | 1252  |
| Ion Ratio | Lower | Upper |       |
| 284       | 100   |       |       |
| 142       | 33.4  | 22.1  | 33.1# |
| 249       | 31.6  | 34.8  | 52.2# |

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#22

Pentachlorophenol

Concen: 0.506 ng

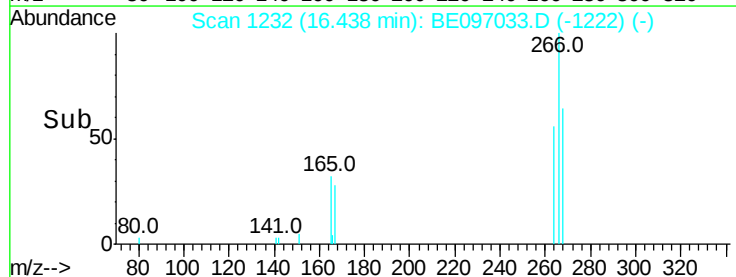
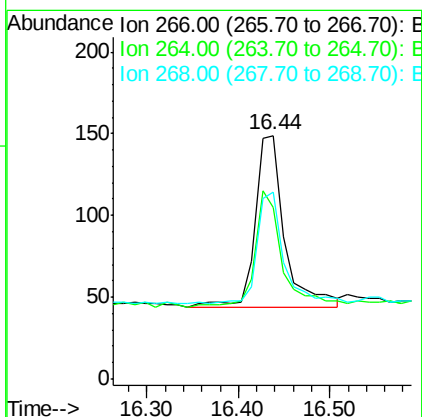
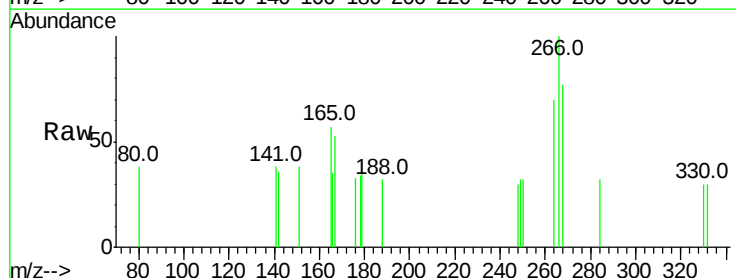
RT: 16.44 min Scan# 1232

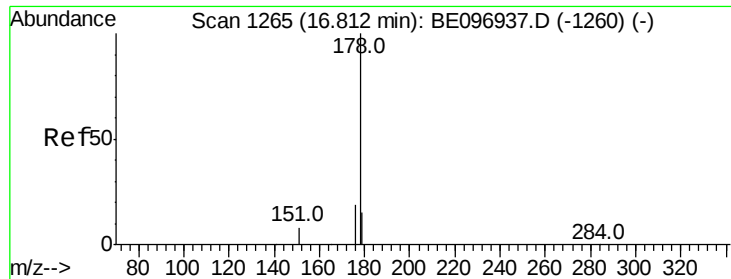
Delta R.T. 0.01 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 266   | Resp: | 237    |
| Ion Ratio | Lower | Upper |        |
| 266       | 100   |       |        |
| 264       | 70.5  | 72.5  | 108.7# |
| 268       | 76.5  | 73.8  | 110.6  |





#23

Phenanthrene

Concen: 0.413 ng/mL

RT: 16.81 min Scan# 1264

Delta R.T. -0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

Instrument :

BNA\_E

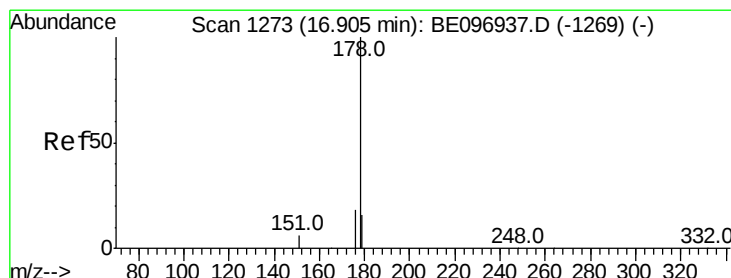
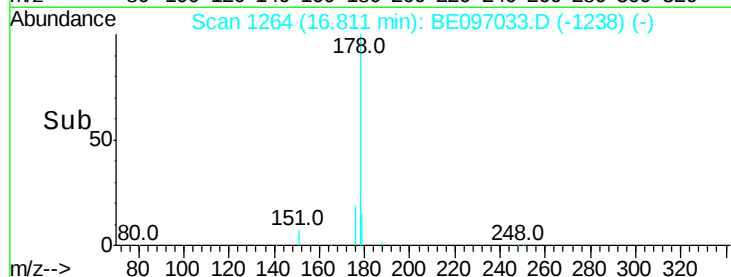
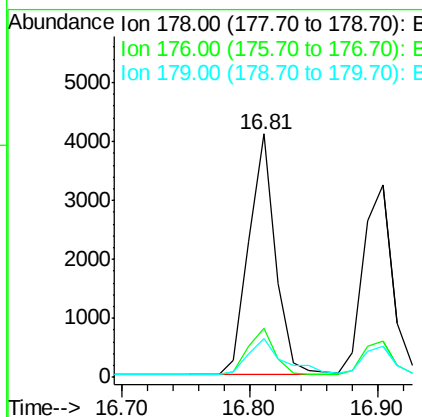
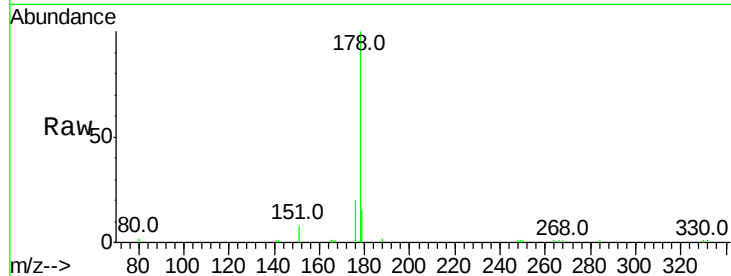
ClientSampleID :

PB111327BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 178   | Resp: | 5917  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 176      | 16.1  | 15.1  | 22.7  |
| 179      | 13.7  | 11.8  | 17.6  |

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#24

Anthracene

Concen: 0.406 ng/mL

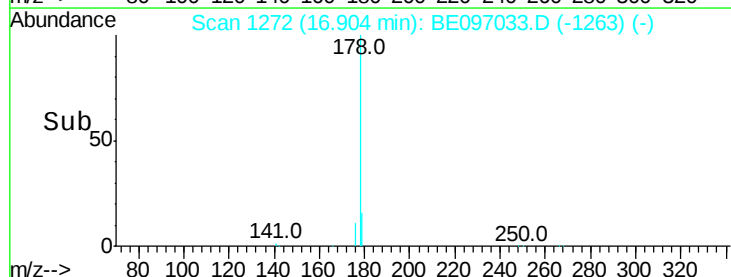
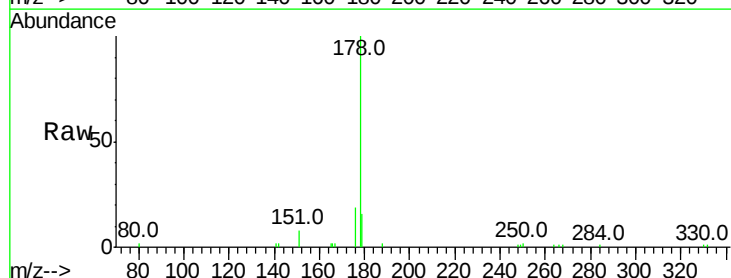
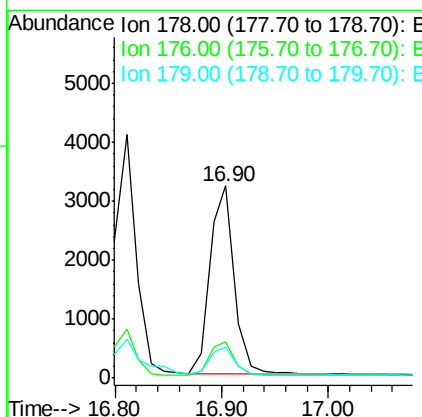
RT: 16.90 min Scan# 1272

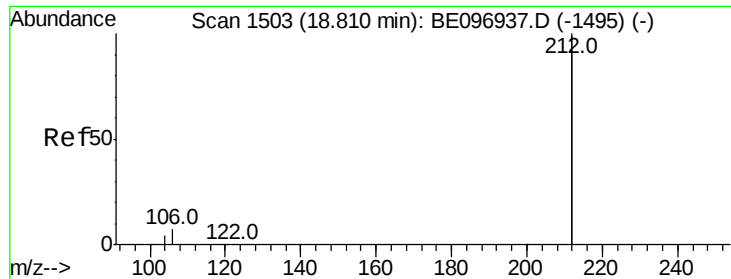
Delta R.T. -0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 5064  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 176      | 18.5  | 12.8  | 19.2  |
| 179      | 15.3  | 13.0  | 19.6  |





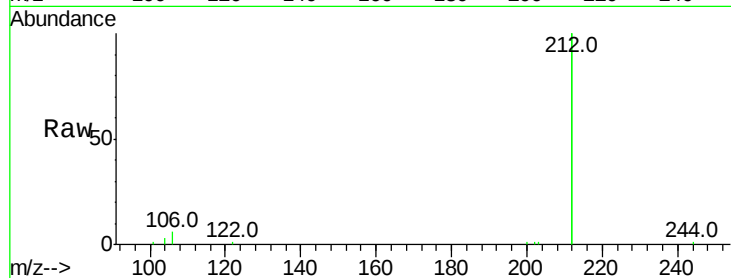
#25  
Fluoranthene-d10  
Concen: 0.469 ng  
RT: 18.81 min Scan# 1502  
Delta R.T. -0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

Instrument :  
BNA\_E  
ClientSampleId :  
PB111327BS

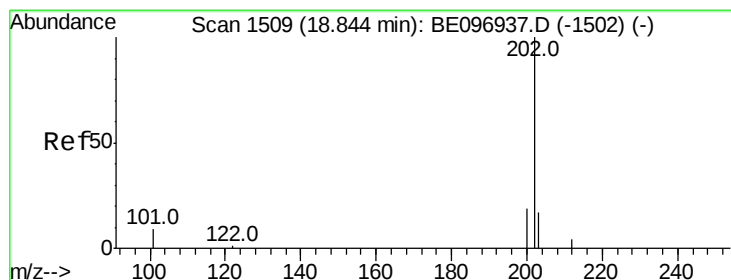
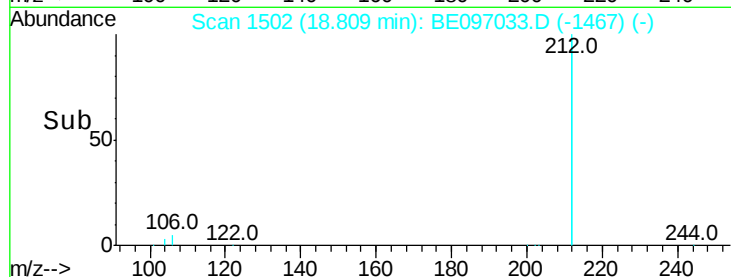
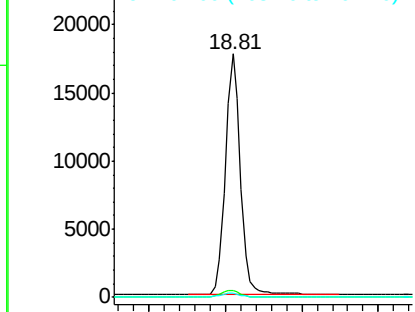
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 2.9   | 2.8   | 4.2   |
| 104     | 1.6   | 1.6   | 2.4   |

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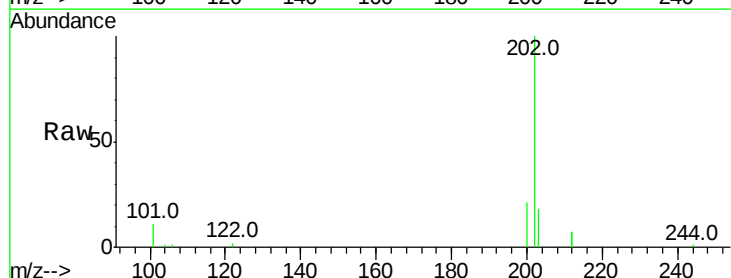


Abundance Ion 212.00 (211.70 to 212.70): E  
Ion 106.00 (105.70 to 106.70): E  
Ion 104.00 (103.70 to 104.70): E

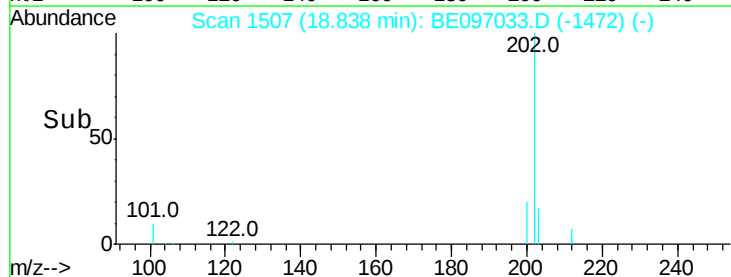
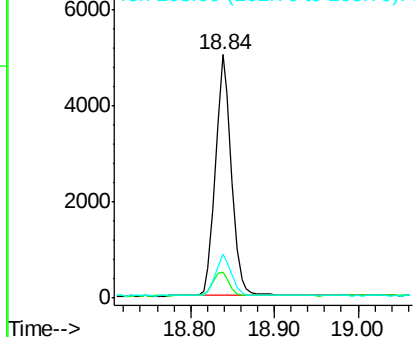


#26  
Fluoranthene  
Concen: 0.444 ng  
RT: 18.84 min Scan# 1507  
Delta R.T. -0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.4  | 9.8   | 14.8  |
| 203     | 16.8  | 13.7  | 20.5  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





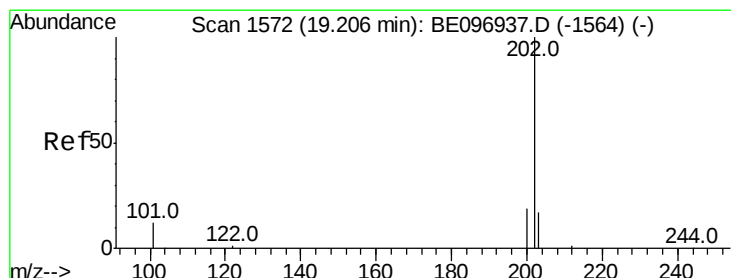
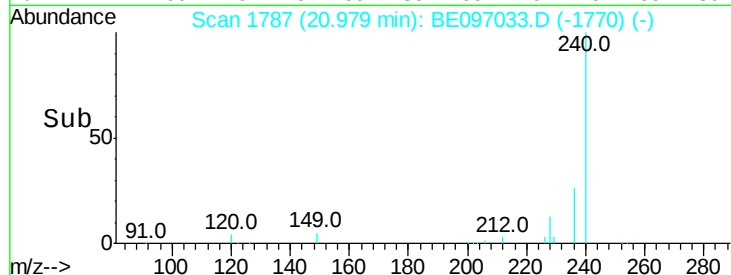
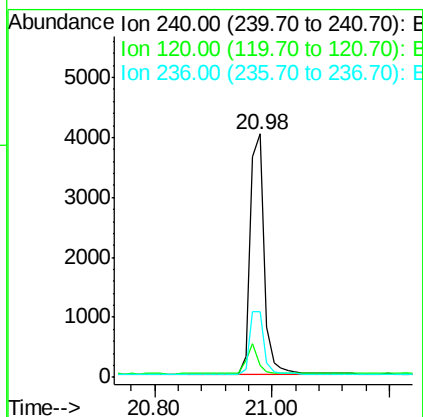
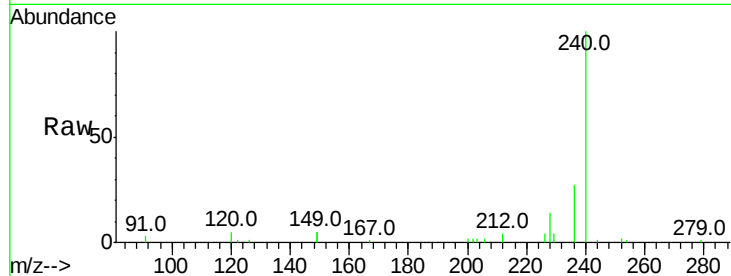
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.98 min Scan# 1787  
Delta R.T. 0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

Instrument :  
BNA\_E  
ClientSampleId :  
PB111327BS

Tot Ion:240 Resp: 6755  
Ion Ratio Lower Upper  
240 100  
120 5.1 5.5 8.3#  
236 26.8 20.7 31.1

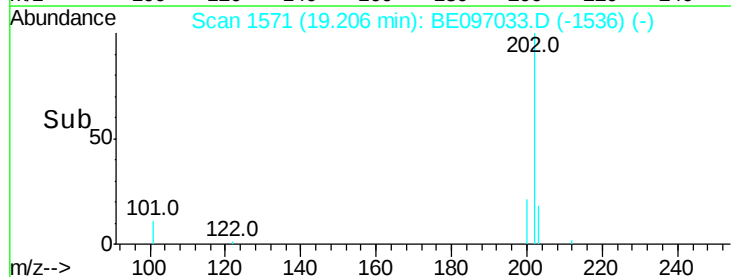
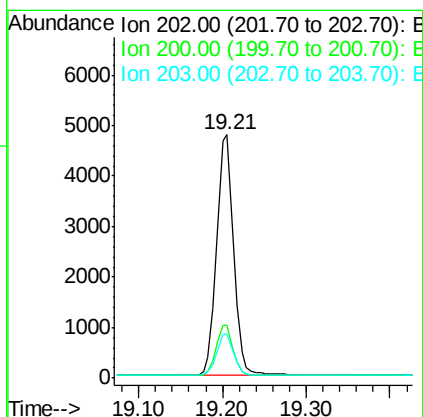
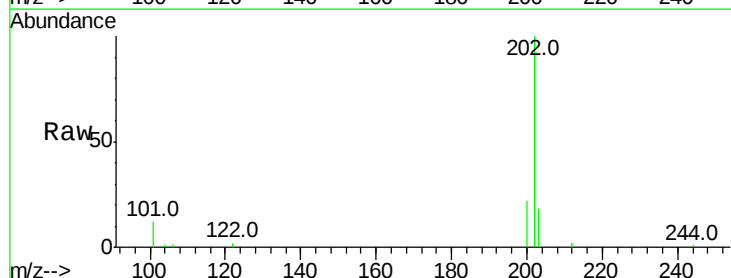
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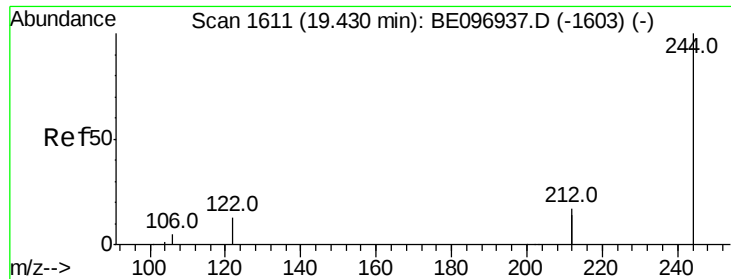
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#28  
Pyrene  
Concen: 0.342 ng  
RT: 19.21 min Scan# 1571  
Delta R.T. -0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

Tgt Ion:202 Resp: 6826  
Ion Ratio Lower Upper  
202 100  
200 21.0 16.6 25.0  
203 17.7 13.8 20.8





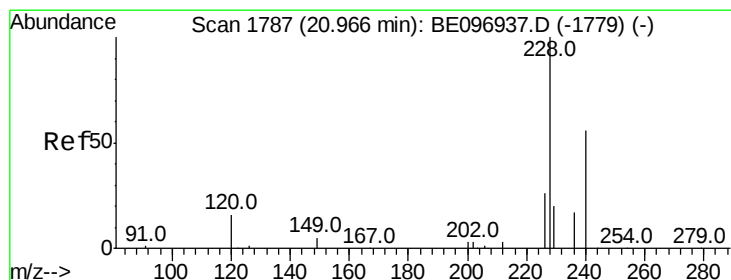
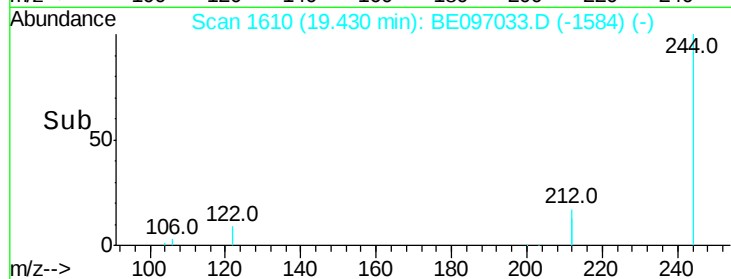
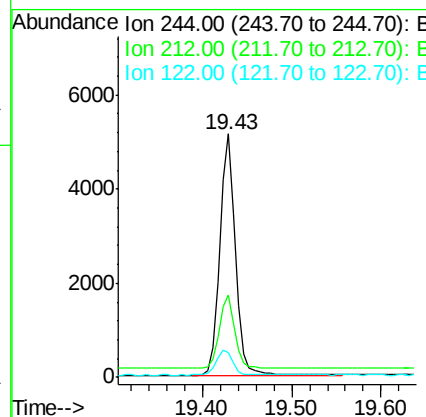
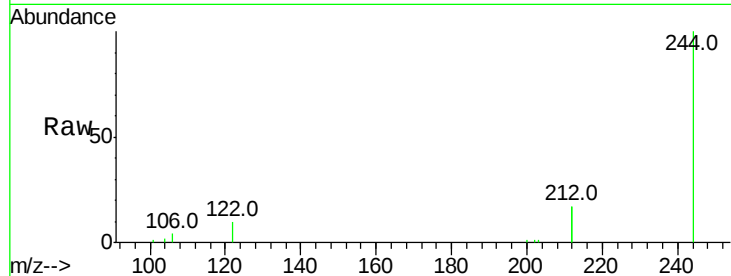
#29  
 Terphenyl-d14  
 Concen: 0.476 ng  
 RT: 19.43 min Scan# 1610  
 Delta R.T. -0.00 min  
 Lab File: BE097033.D  
 Acq: 23 Jul 2018 12:13

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB111327BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 33.6  | 25.4  | 38.0  |
| 122     | 10.0  | 8.1   | 12.1  |

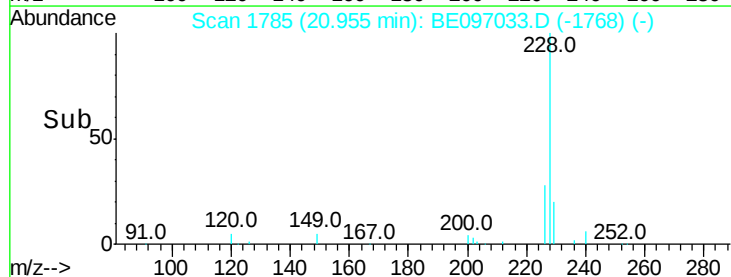
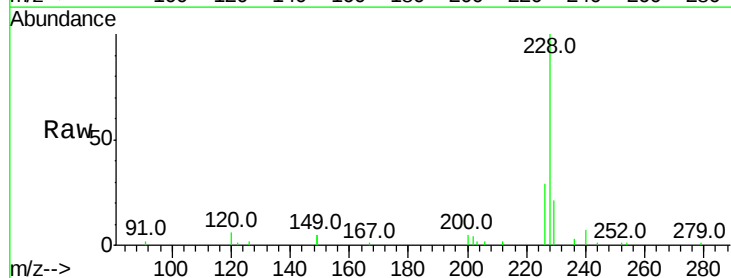
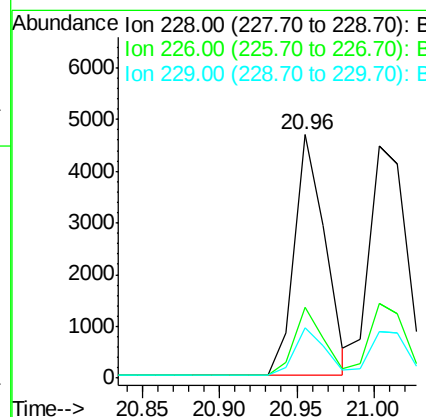
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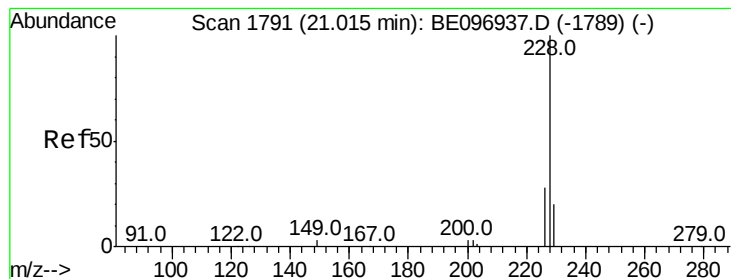
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#30  
 Benzo(a)anthracene  
 Concen: 0.403 ng  
 RT: 20.96 min Scan# 1785  
 Delta R.T. 0.00 min  
 Lab File: BE097033.D  
 Acq: 23 Jul 2018 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.8  | 24.0  | 36.0  |
| 229     | 20.8  | 16.0  | 24.0  |





#31

Chrysene

Concen: 0.415 ng

RT: 21.00 min Scan# 1789

Delta R.T. -0.01 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

Instrument :

BNA\_E

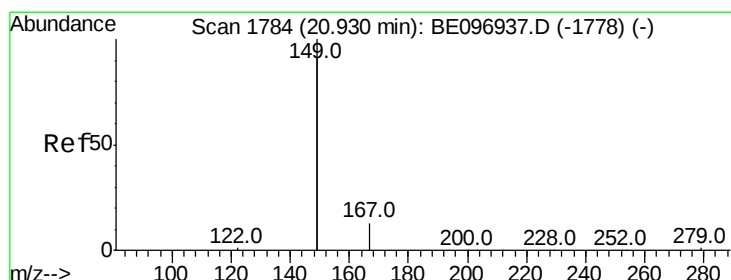
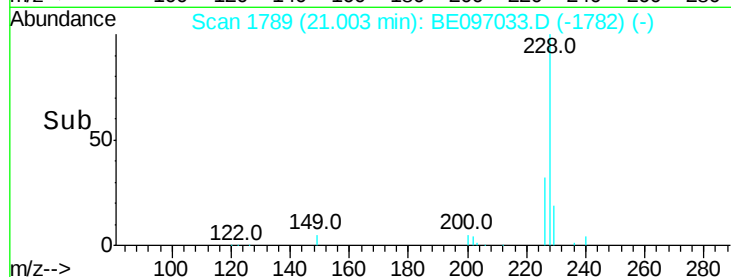
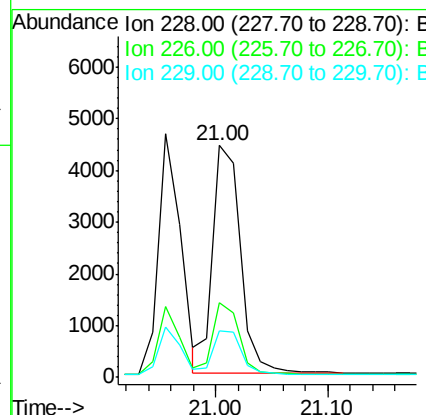
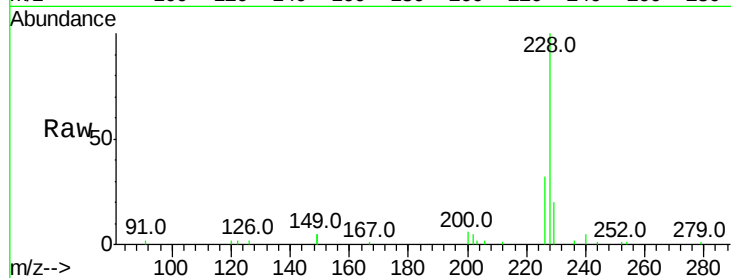
ClientSampleId :

PB111327BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 228   | Resp: | 7488 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 32.3  | 24.0  | 36.0 |
| 229       | 20.2  | 16.0  | 24.0 |

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.325 ng

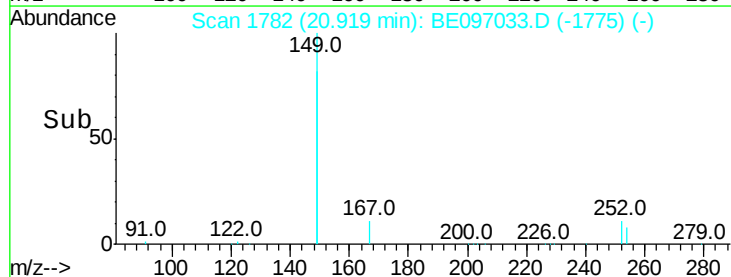
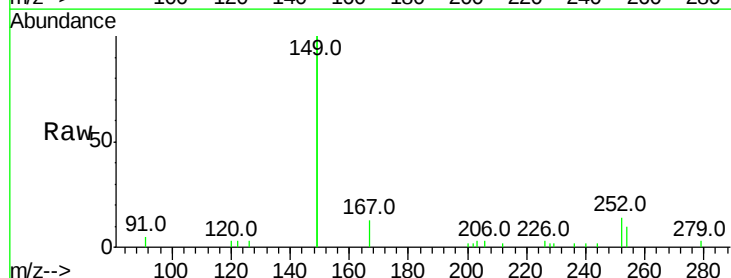
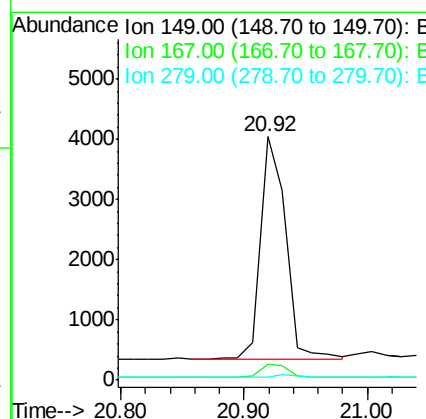
RT: 20.92 min Scan# 1782

Delta R.T. -0.01 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 5216 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 6.5   | 5.4   | 8.0  |
| 279       | 1.2   | 0.7   | 1.1# |





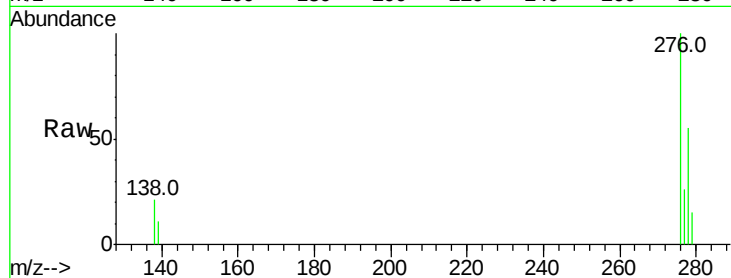
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.485 ng  
 RT: 25.51 min Scan# 2844  
 Delta R.T. 0.00 min  
 Lab File: BE097033.D  
 Acq: 23 Jul 2018 12:13

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB111327BS

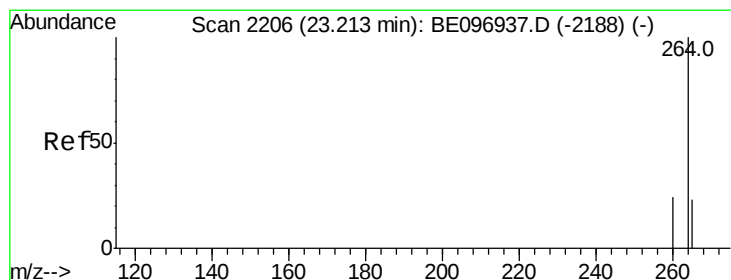
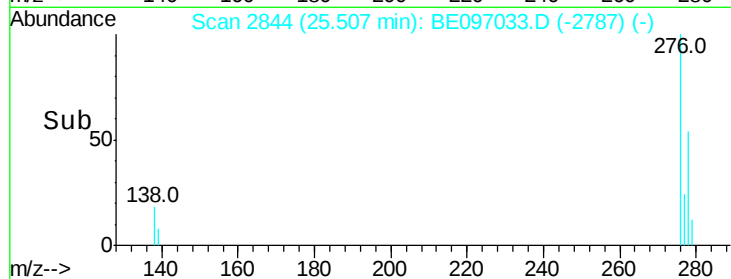
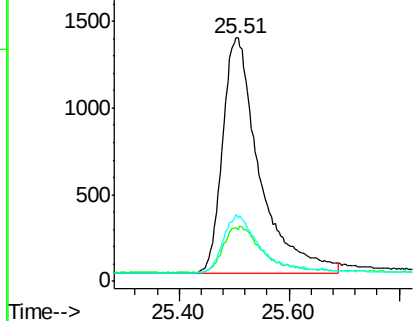
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.7  | 22.5  | 33.7# |
| 277     | 23.5  | 19.9  | 29.9  |

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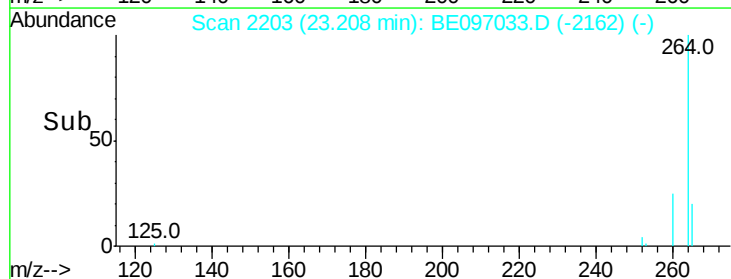
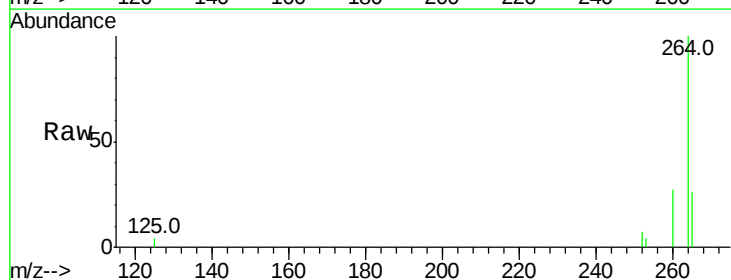
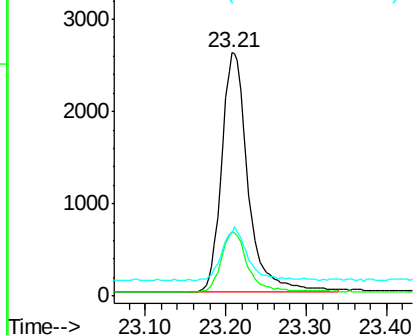
Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

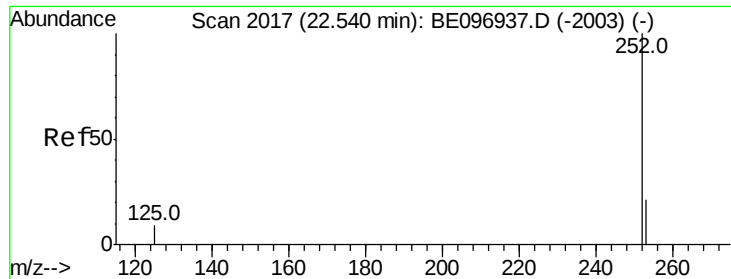


#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.21 min Scan# 2203  
 Delta R.T. -0.00 min  
 Lab File: BE097033.D  
 Acq: 23 Jul 2018 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.6  | 20.5  | 30.7  |
| 265     | 26.2  | 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





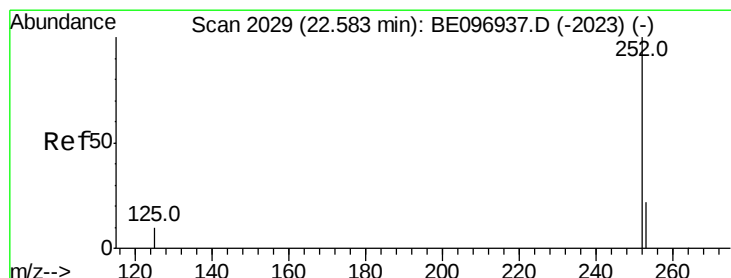
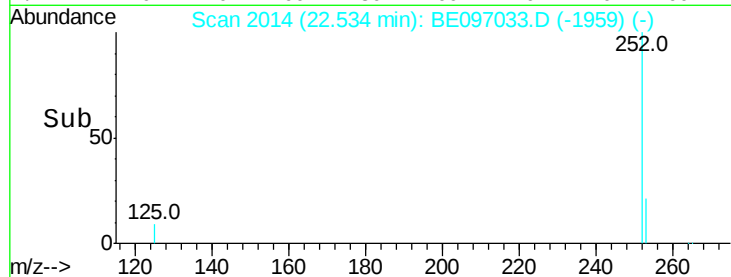
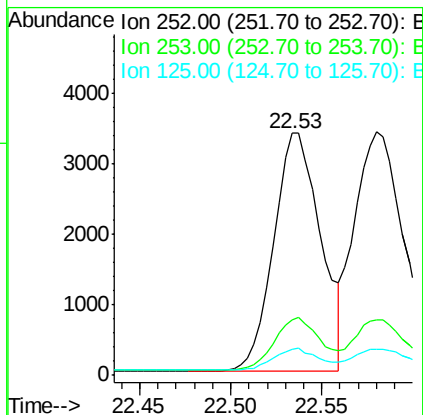
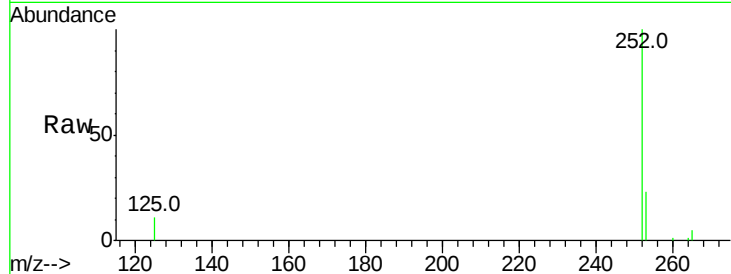
#35  
Benzo(b)fluoranthene  
Concen: 0.403 ng  
RT: 22.53 min Scan# 2014  
Delta R.T. -0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

Instrument :  
BNA\_E  
ClientSampleId :  
PB111327BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 20.0  | 30.0  |
| 125     | 10.7  | 16.0  | 24.0  |

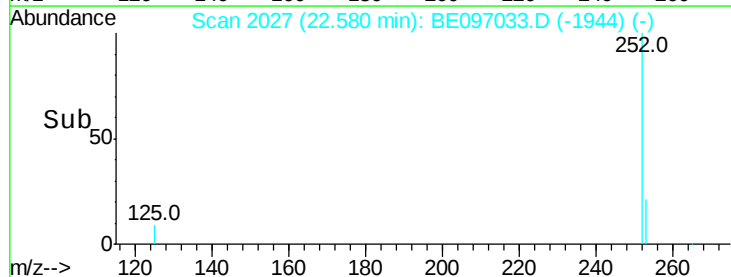
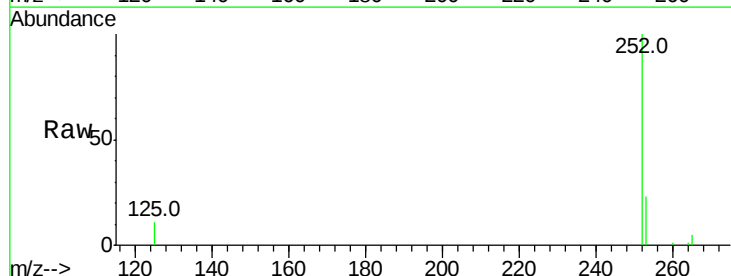
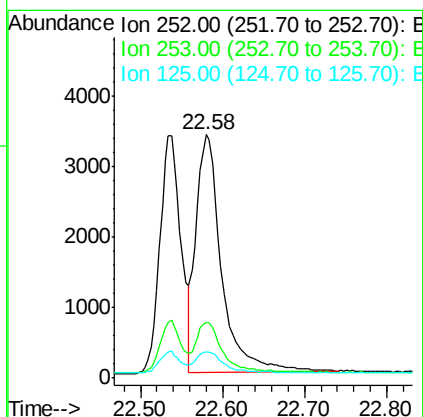
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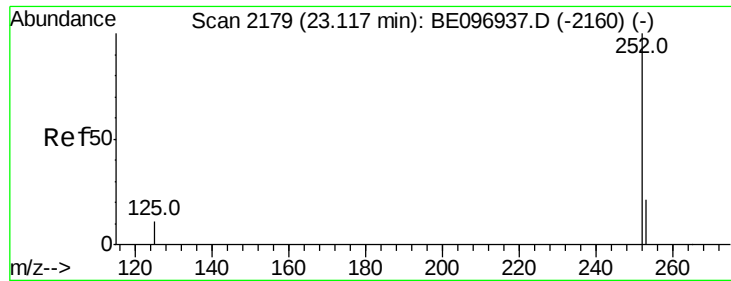
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#36  
Benzo(k)fluoranthene  
Concen: 0.410 ng  
RT: 22.58 min Scan# 2027  
Delta R.T. -0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 16.0  | 24.0  |
| 125     | 10.7  | 8.0   | 12.0  |





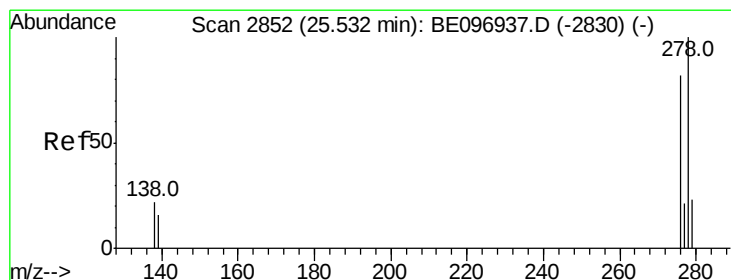
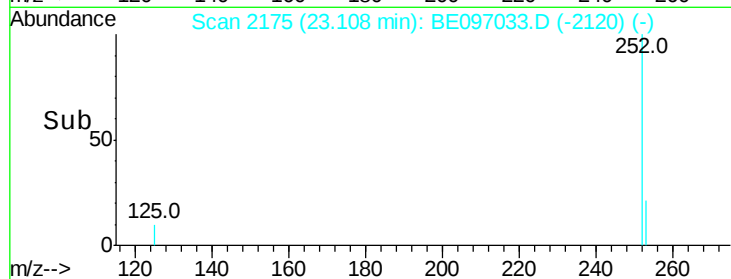
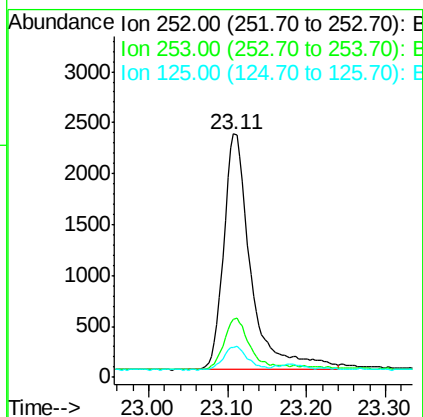
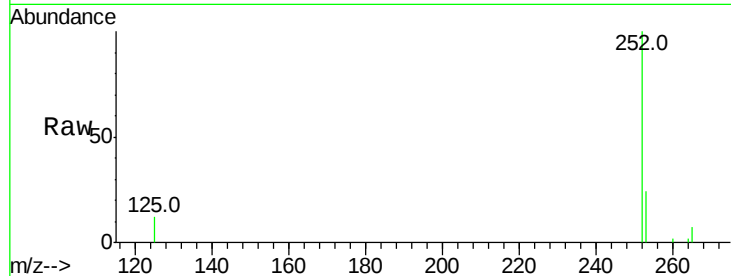
#37  
Benzo(a)pyrene  
Concen: 0.428 ng  
RT: 23.11 min Scan# 2175  
Delta R.T. -0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

Instrument :  
BNA\_E  
ClientSampleId :  
PB111327BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 16.0  | 24.0  |
| 125     | 12.5  | 12.0  | 18.0  |

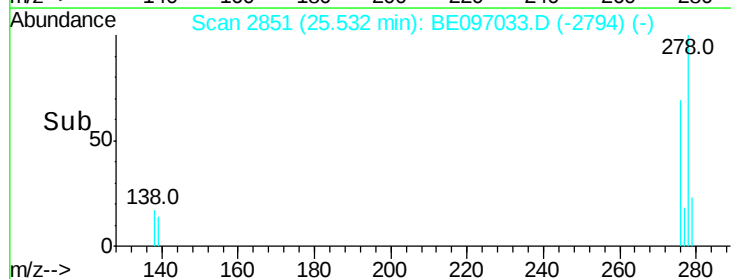
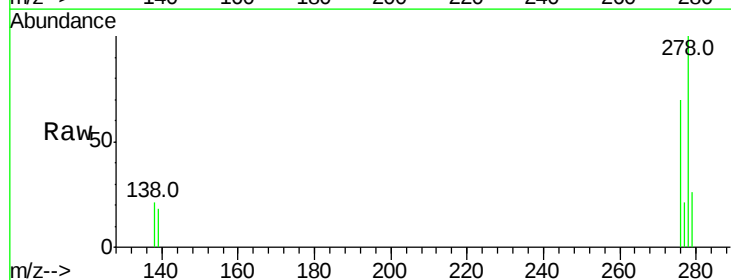
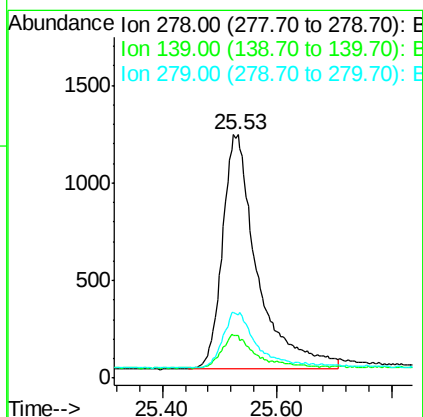
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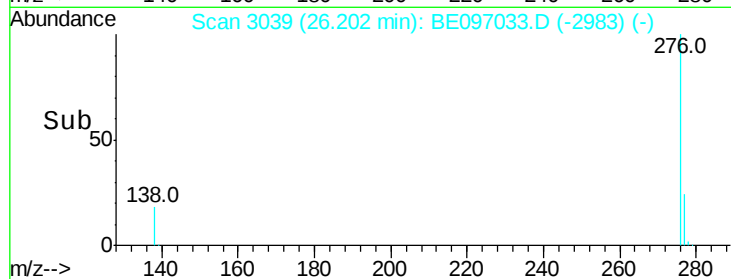
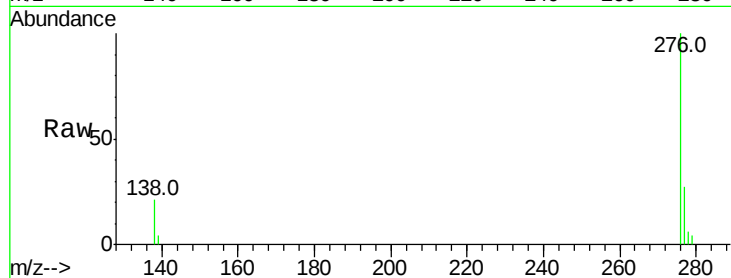
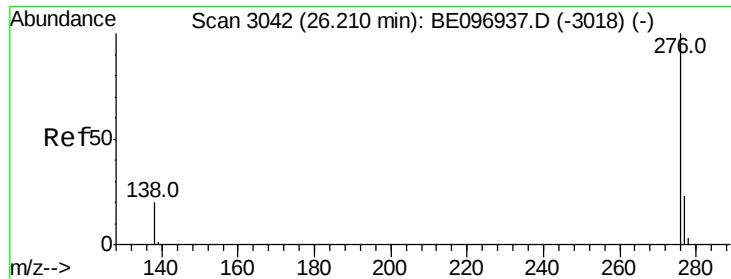
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#38  
Dibenzo(a,h)anthracene  
Concen: 0.466 ng  
RT: 25.53 min Scan# 2851  
Delta R.T. 0.00 min  
Lab File: BE097033.D  
Acq: 23 Jul 2018 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.6  | 16.0  | 24.0  |
| 279     | 26.0  | 20.0  | 30.0  |





#39

Benzo(a,h,i)perylene

Concen: 0.474 ng

RT: 26.20 min Scan# 3039

Delta R.T. 0.00 min

Lab File: BE097033.D

Acq: 23 Jul 2018 12:13

Instrument :

BNA\_E

ClientSampleId :

PB111327BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.8  | 16.0  | 24.0  |
| 138     | 20.7  | 20.0  | 30.0  |

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