

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011819\  
 Data File : BE098667.D  
 Acq On : 18 Jan 2019 16:27  
 Operator : SJ/JU  
 Sample : PB116504BS  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116504BS

Manual Integrations  
 APPROVED

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 1/21/2019 1:59:42 PM

Quant Time: Jan 18 21:23:49 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE011519.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Jan 15 14:30:55 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 1052     | 0.40 | ng    | 0.01     |
| 7) Naphthalene-d8         | 10.63 | 136  | 4965     | 0.40 | ng    | 0.03     |
| 13) Acenaphthene-d10      | 14.49 | 164  | 3267     | 0.40 | ng    | 0.01     |
| 19) Phenanthrene-d10      | 17.23 | 188  | 8120     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.41 | 240  | 8945     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.93 | 264  | 8761     | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| 4) 2-Fluorophenol           | 5.41  | 112 | 1097  | 0.39 | ng | 0.01 |
| 5) Phenol-d6                | 7.01  | 99  | 1544  | 0.39 | ng | 0.01 |
| 8) Nitrobenzene-d5          | 8.99  | 82  | 1468  | 0.37 | ng | 0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152 | 2750  | 0.34 | ng | 0.01 |
| 14) 2,4,6-Tribromophenol    | 15.98 | 330 | 546   | 0.38 | ng | 0.01 |
| 15) 2-Fluorobiphenyl        | 13.10 | 172 | 4345  | 0.32 | ng | 0.01 |
| 25) Fluoranthene-d10        | 19.26 | 212 | 32177 | 0.32 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.86 | 244 | 6769  | 0.34 | ng | 0.00 |

#### Target Compounds

|                                |       |     |       |       |    | Qvalue |
|--------------------------------|-------|-----|-------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.32  | 88  | 750   | 0.384 | ng | 90     |
| 3) n-Nitrosodimethylamine      | 3.65  | 42  | 654   | 0.420 | ng | # 99   |
| 6) bis(2-Chloroethyl)ether     | 7.25  | 93  | 1150  | 0.381 | ng | 91     |
| 9) Naphthalene                 | 10.67 | 128 | 16180 | 0.327 | ng | 100    |
| 10) Hexachlorobutadiene        | 10.95 | 225 | 1237  | 0.350 | ng | 97     |
| 12) 2-Methylnaphthalene        | 12.30 | 142 | 2742  | 0.334 | ng | 94     |
| 16) Acenaphthylene             | 14.21 | 152 | 4650  | 0.329 | ng | 98     |
| 17) Acenaphthene               | 14.54 | 154 | 2890  | 0.326 | ng | 98     |
| 18) Fluorene                   | 15.53 | 166 | 3951  | 0.342 | ng | 99     |
| 20) 4-Bromophenyl-phenylether  | 16.42 | 248 | 1391  | 0.323 | ng | 97     |
| 21) Hexachlorobenzene          | 16.54 | 284 | 1671  | 0.322 | ng | 98     |
| 22) Pentachlorophenol          | 16.91 | 266 | 595   | 0.481 | ng | 96     |
| 23) Phenanthrene               | 17.27 | 178 | 6347  | 0.330 | ng | 99     |
| 24) Anthracene                 | 17.37 | 178 | 5374  | 0.326 | ng | 99     |
| 26) Fluoranthene               | 19.29 | 202 | 7842  | 0.317 | ng | 98     |
| 28) Pyrene                     | 19.66 | 202 | 8193  | 0.333 | ng | 100    |
| 30) Benzo(a)anthracene         | 21.40 | 228 | 7955  | 0.331 | ng | 95     |
| 31) Chrysene                   | 21.45 | 228 | 8365  | 0.336 | ng | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 21.32 | 149 | 16082 | 0.315 | ng | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.58 | 276 | 8893  | 0.346 | ng | 99     |
| 35) Benzo(b)fluoranthene       | 23.16 | 252 | 8022m | 0.336 | ng |        |
| 36) Benzo(k)fluoranthene       | 23.21 | 252 | 8515  | 0.326 | ng | 98     |
| 37) Benzo(a)pyrene             | 23.82 | 252 | 7724  | 0.329 | ng | 98     |
| 38) Dibenzo(a,h)anthracene     | 26.61 | 278 | 7327  | 0.352 | ng | # 93   |
| 39) Benzo(g,h,i)perylene       | 27.39 | 276 | 7545  | 0.331 | ng | 97     |

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

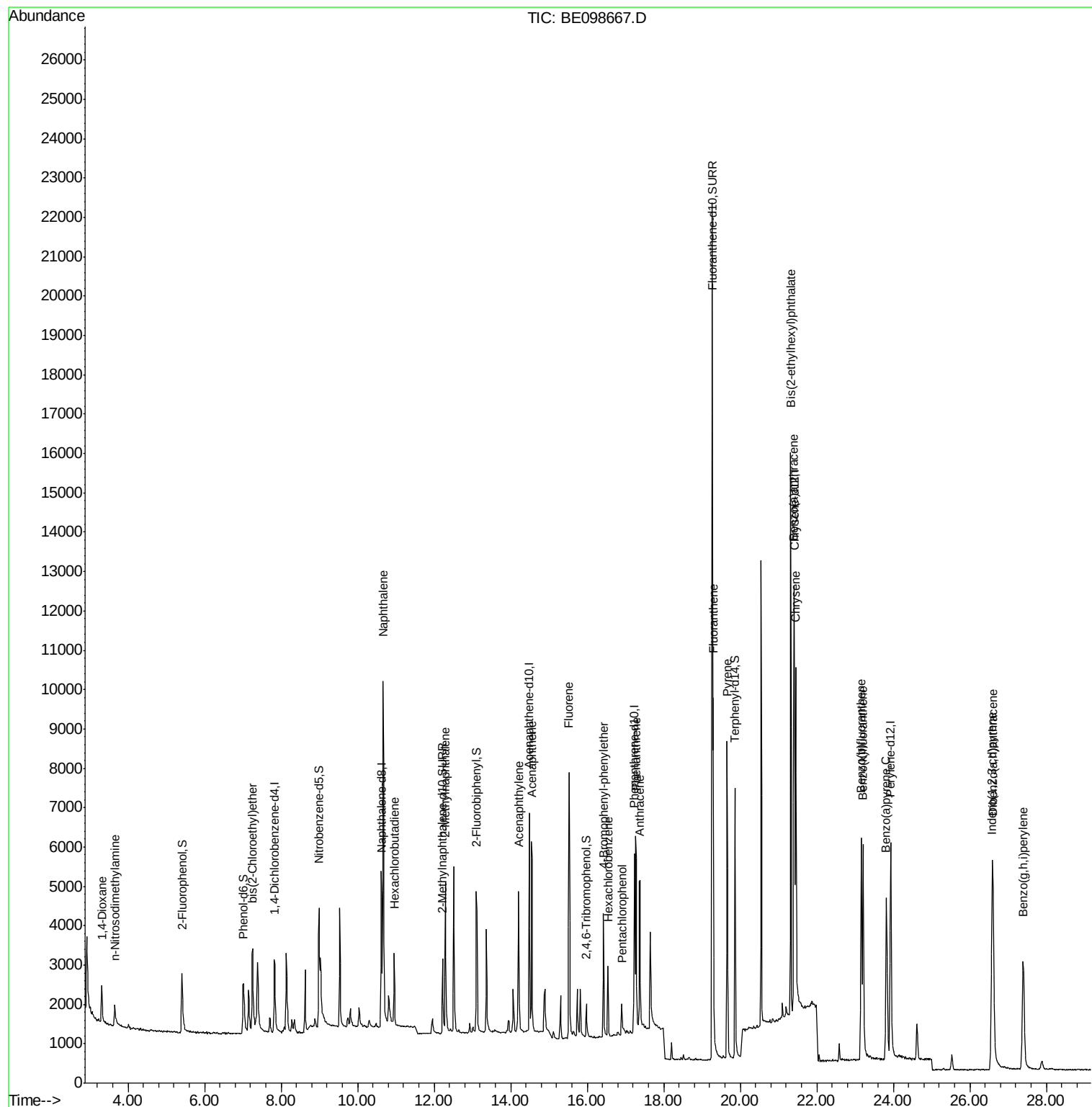
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011819\  
Data File : BE098667.D  
Acq On : 18 Jan 2019 16:27  
Operator : SJ/JU  
Sample : PB116504BS  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

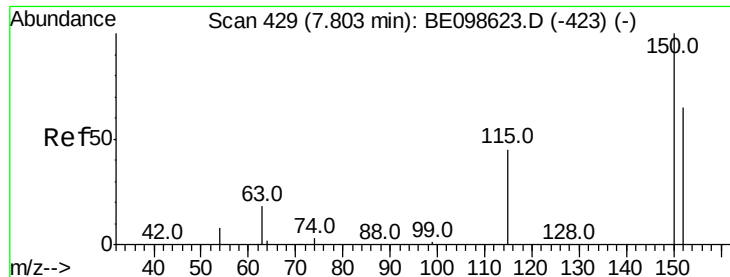
Instrument :  
BNA\_E  
ClientSampleId :  
PB116504BS

Quant Time: Jan 18 21:23:49 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE011519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 15 14:30:55 2019  
Response via : Initial Calibration

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.82 min Scan# 430

Delta R.T. 0.01 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

Instrument :

BNA\_E

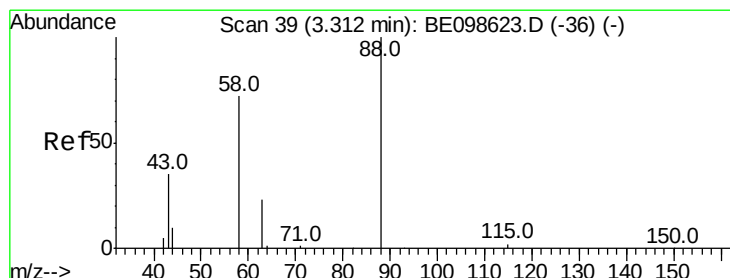
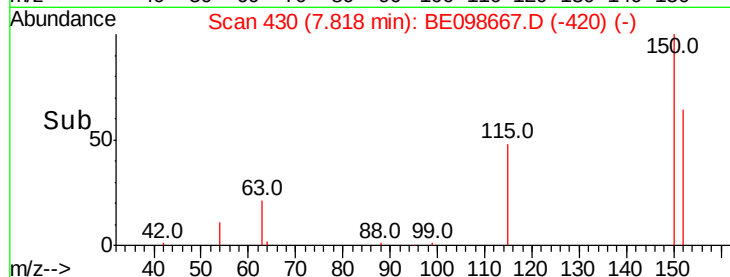
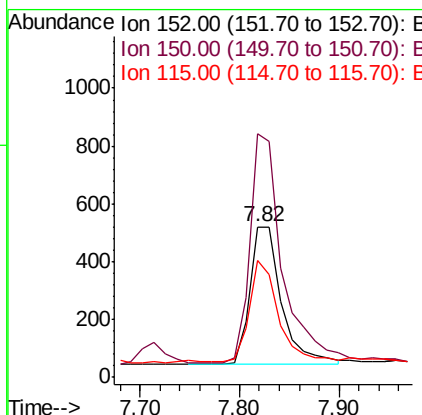
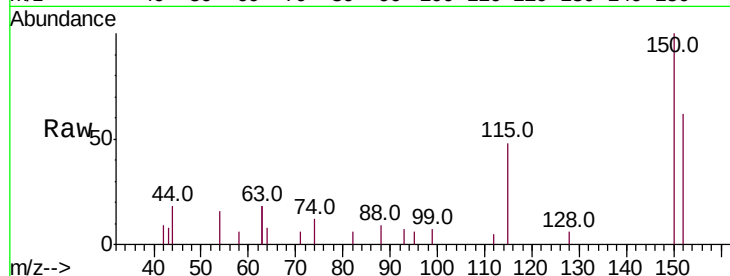
ClientSampleId :

PB116504BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 1052  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 150      | 161.9 | 121.4 | 182.2 |
| 115      | 77.5  | 59.1  | 88.7  |

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#2

1,4-Dioxane

Concen: 0.384 ng

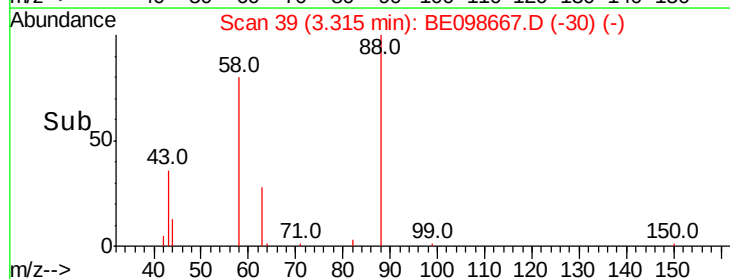
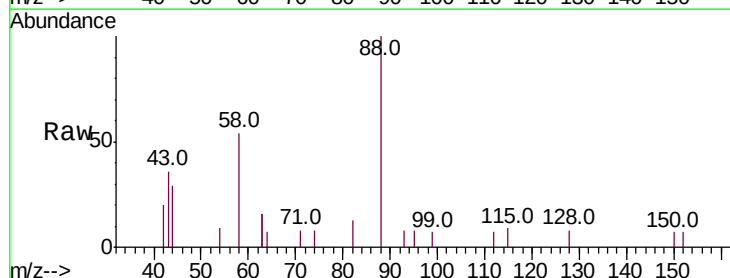
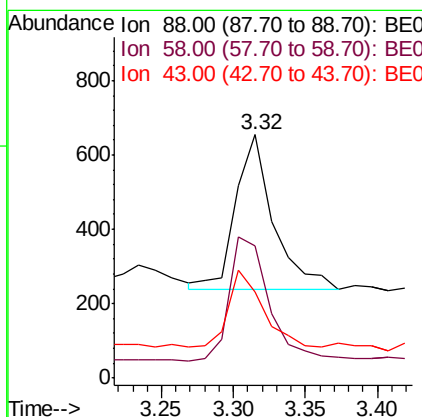
RT: 3.32 min Scan# 39

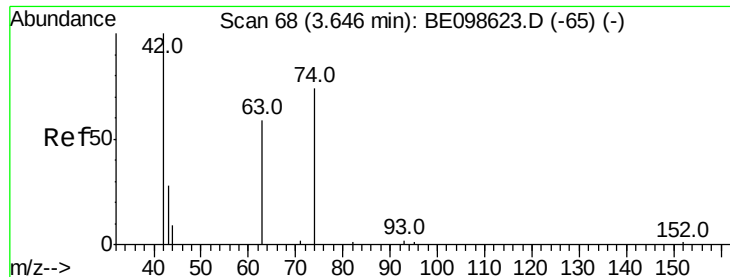
Delta R.T. 0.00 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 750   |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 84.5  | 73.9  | 110.9 |
| 43       | 45.3  | 43.7  | 65.5  |





#3

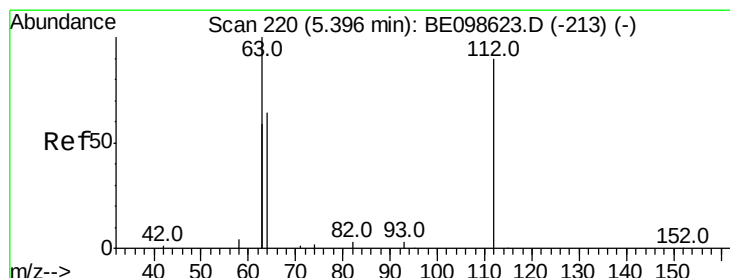
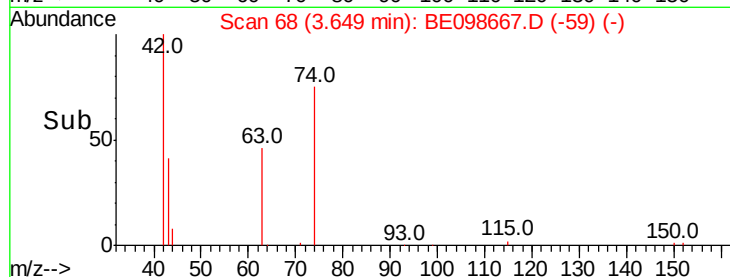
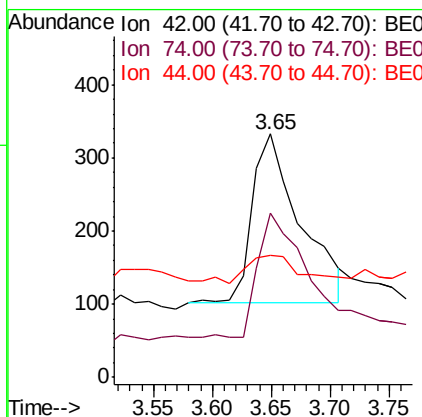
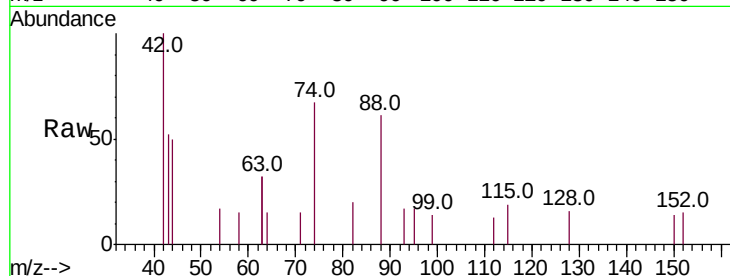
n-Nitrosodimethylamine  
 Concen: 0.420 ng  
 RT: 3.65 min Scan# 68  
 Delta R.T. 0.00 min  
 Lab File: BE098667.D  
 Acq: 18 Jan 2019 16:27

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116504BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 74.8  | 58.9  | 88.3  |
| 44      | 15.4  | 0.0   | 0.0#  |

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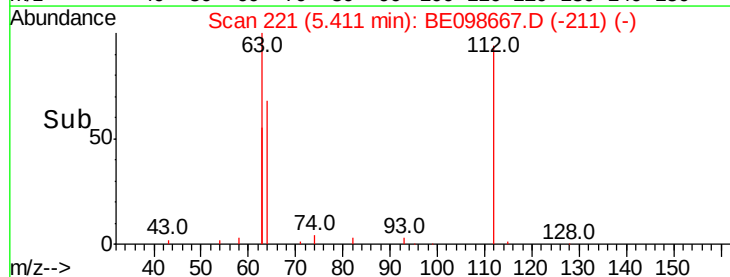
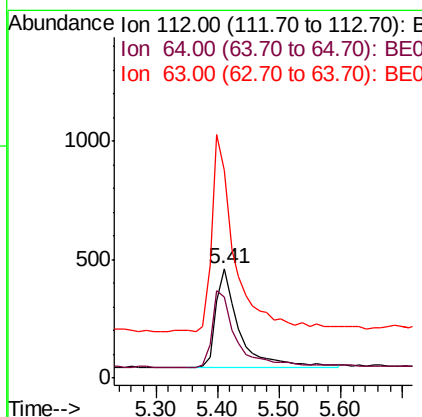
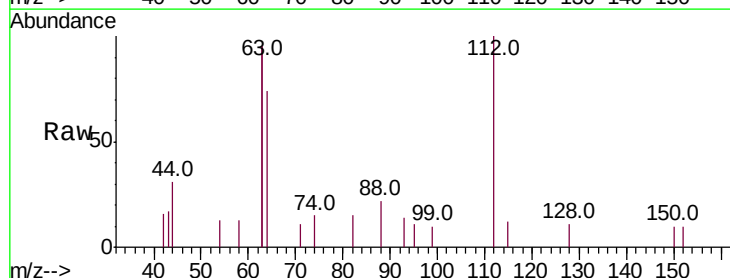
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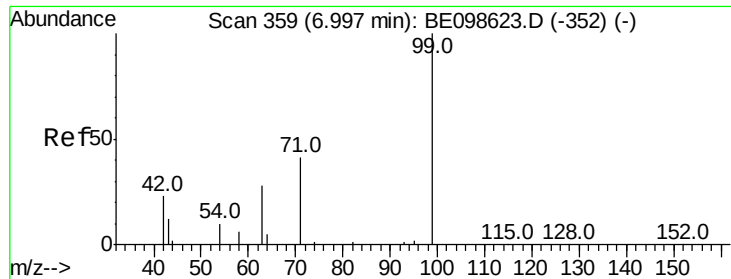


#4

2-Fluorophenol  
 Concen: 0.391 ng  
 RT: 5.41 min Scan# 221  
 Delta R.T. 0.01 min  
 Lab File: BE098667.D  
 Acq: 18 Jan 2019 16:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 82.8  | 62.9  | 94.3  |
| 63      | 194.3 | 152.2 | 228.4 |





#5

Phenol-d6

Concen: 0.386 ng

RT: 7.01 min Scan# 360

Delta R.T. 0.01 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

Instrument :

BNA\_E

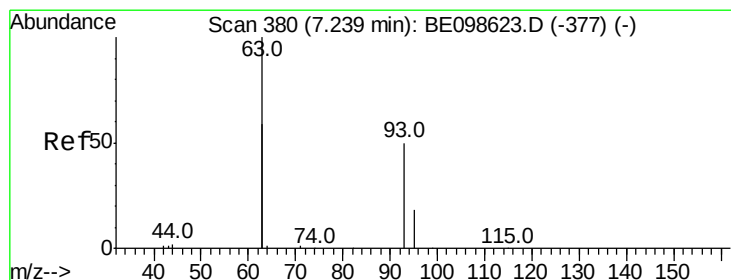
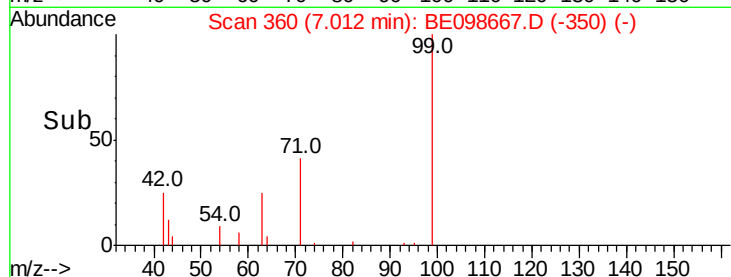
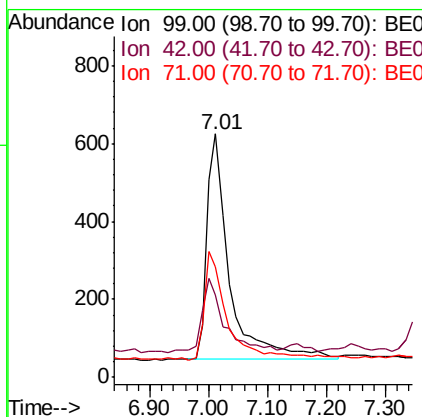
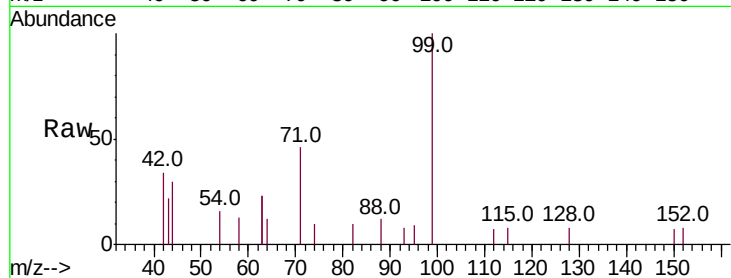
ClientSampleId :

PB116504BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 1544  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 32.8  | 24.6  | 37.0  |
| 71       | 50.1  | 35.1  | 52.7  |

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#6

bis(2-Chloroethyl)ether

Concen: 0.381 ng

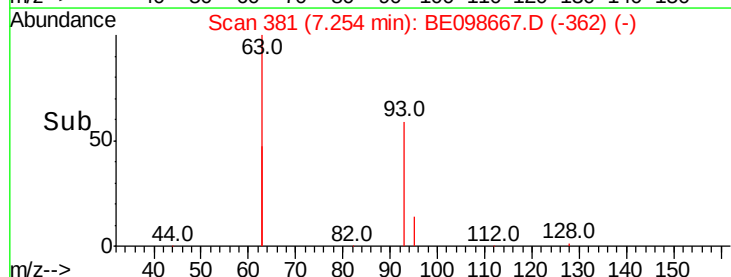
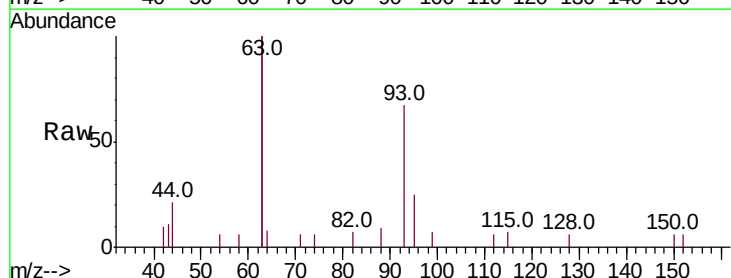
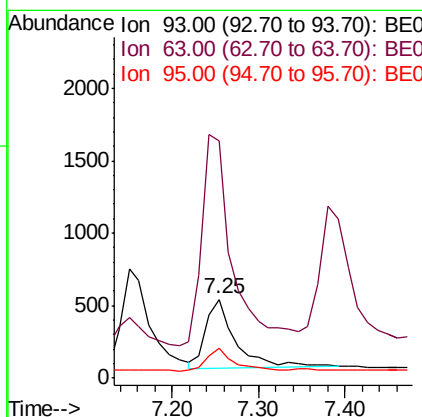
RT: 7.25 min Scan# 381

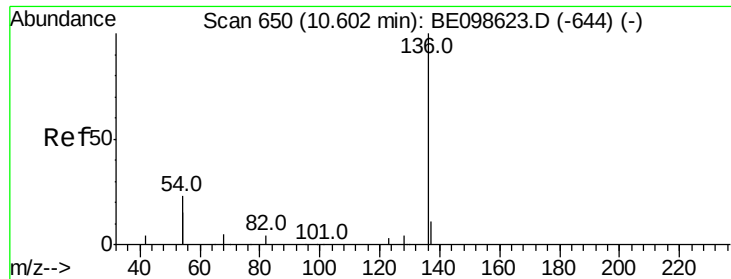
Delta R.T. 0.01 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1150  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 314.6 | 267.3 | 400.9 |
| 95       | 29.0  | 26.2  | 39.4  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. 0.03 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

Instrument :

BNA\_E

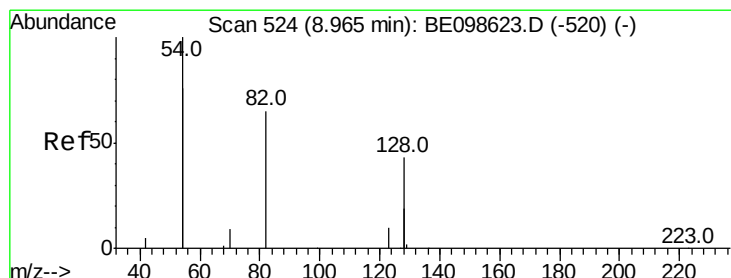
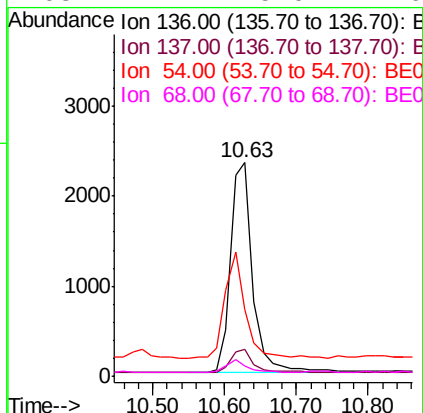
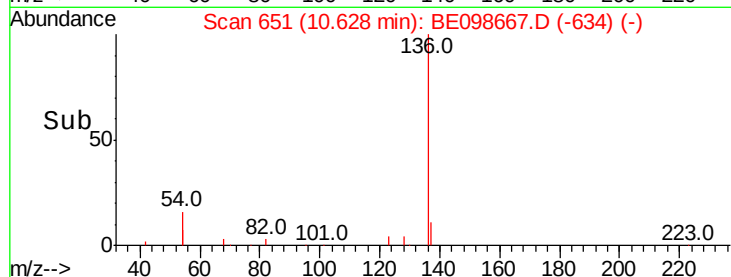
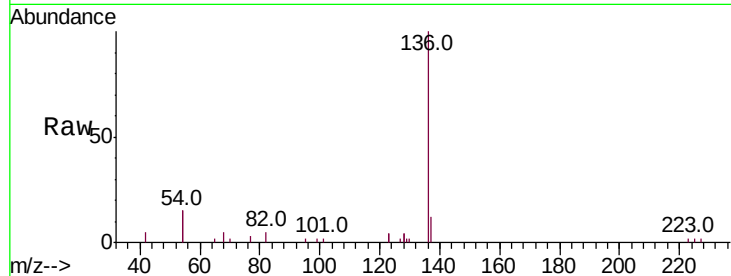
ClientSampled :

PB116504BS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   | 4965 |       |       |
| 137     | 12.3  |      | 9.7   | 14.5  |
| 54      | 30.9  |      | 35.5  | 53.3# |
| 68      | 4.7   |      | 5.0   | 7.6#  |

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#8

Nitrobenzene-d5

Concen: 0.373 ng

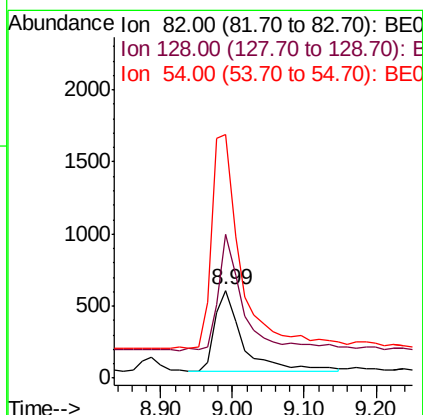
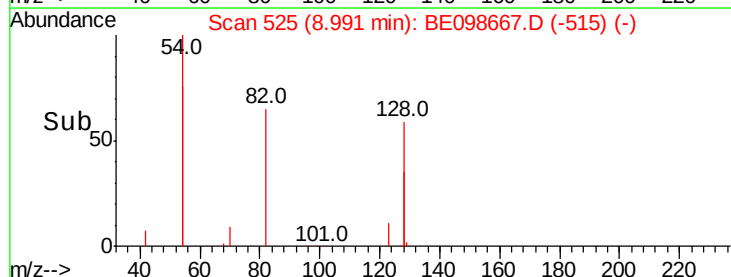
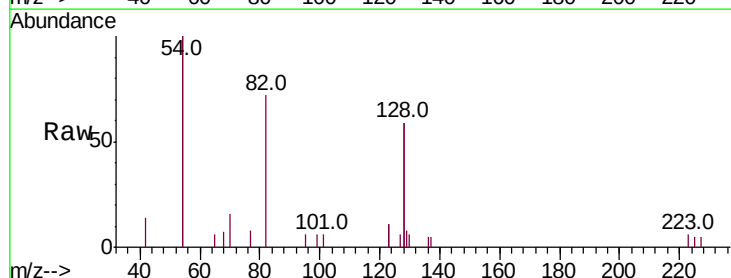
RT: 8.99 min Scan# 525

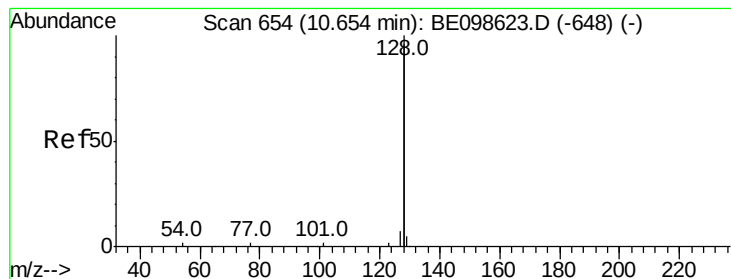
Delta R.T. 0.03 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

| Tgt Ion | Ratio | Resp | Lower | Upper  |
|---------|-------|------|-------|--------|
| 82      | 100   | 1468 |       |        |
| 128     | 163.0 |      | 96.5  | 144.7# |
| 54      | 277.0 |      | 224.7 | 337.1  |





#9

Naphthalene

Concen: 0.327 ng

RT: 10.67 min Scan# 654

Delta R.T. 0.01 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

Instrument :

BNA\_E

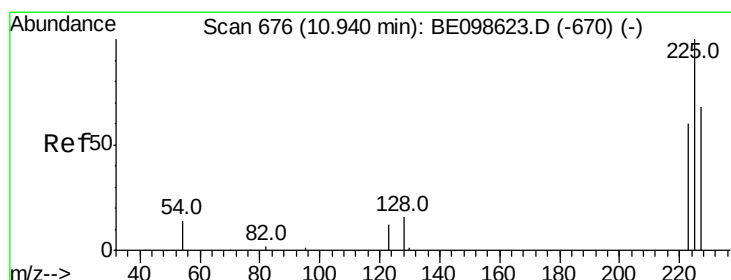
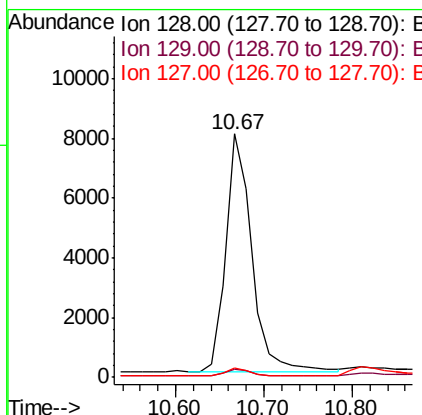
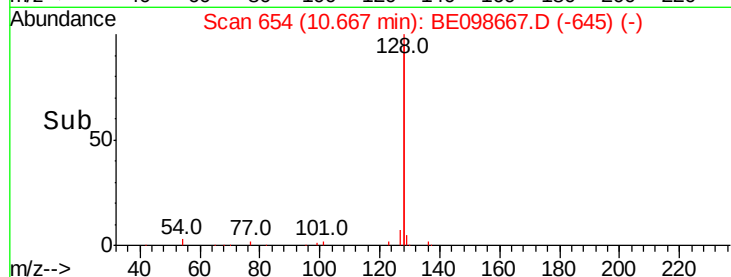
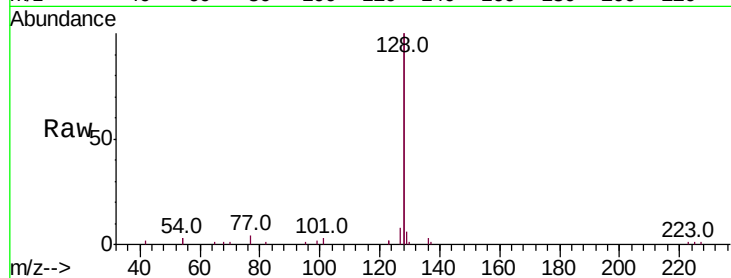
ClientSampled :

PB116504BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 16180 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.2   | 2.6   | 3.8   |
| 127       | 3.8   | 3.0   | 4.6   |

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#10

Hexachlorobutadiene

Concen: 0.350 ng

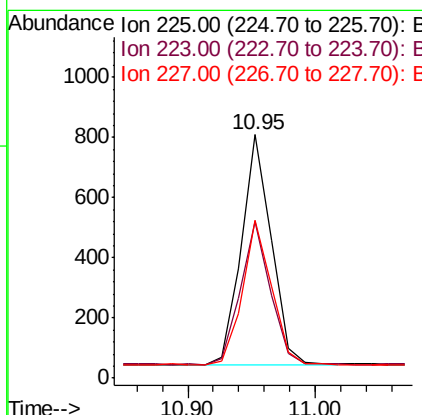
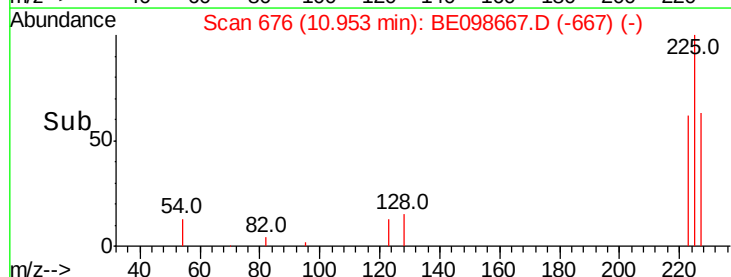
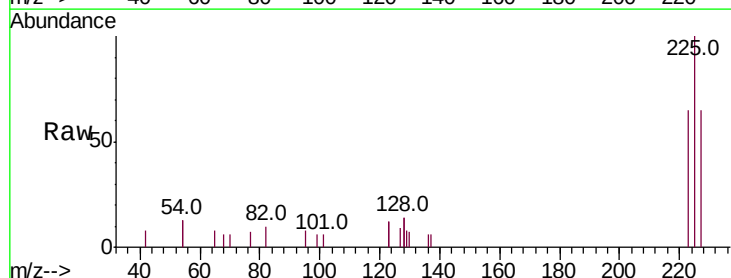
RT: 10.95 min Scan# 676

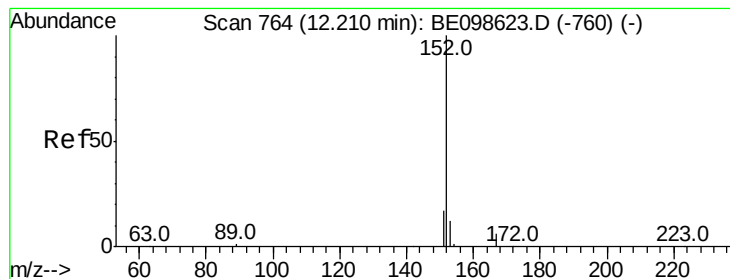
Delta R.T. 0.01 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 1237 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 62.7  | 47.8  | 71.8 |
| 227       | 62.0  | 50.5  | 75.7 |





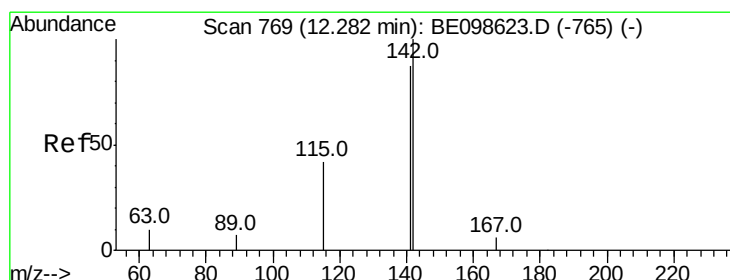
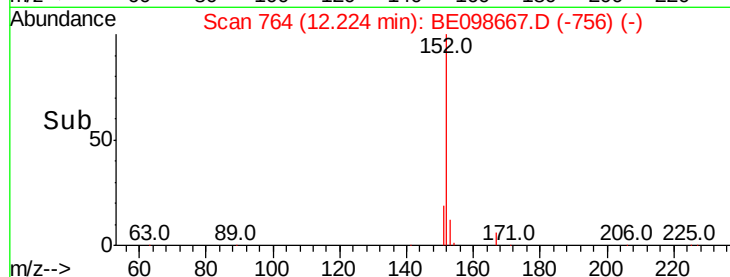
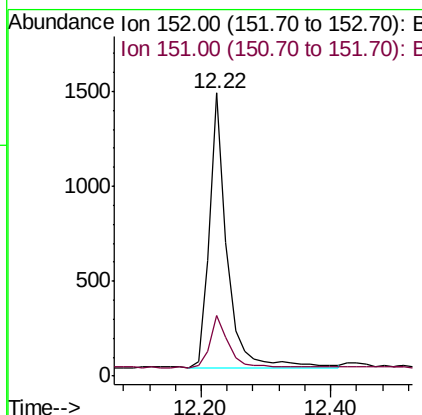
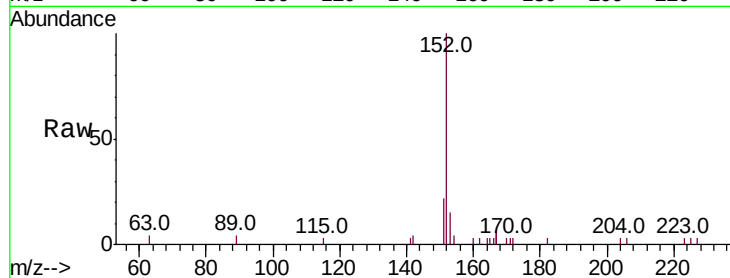
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.337 ng  
 RT: 12.22 min Scan# 764  
 Delta R.T. 0.01 min  
 Lab File: BE098667.D  
 Acq: 18 Jan 2019 16:27

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116504BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.4  | 16.2  | 24.4  |

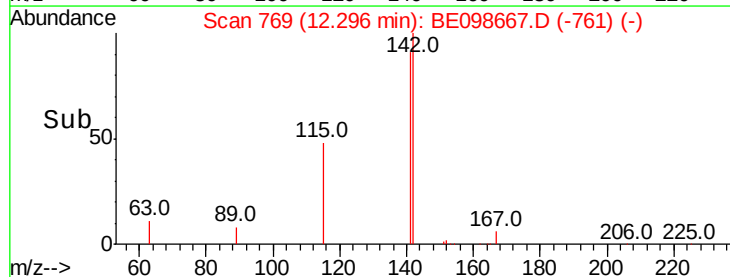
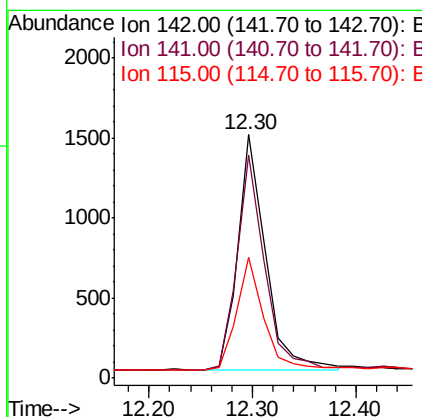
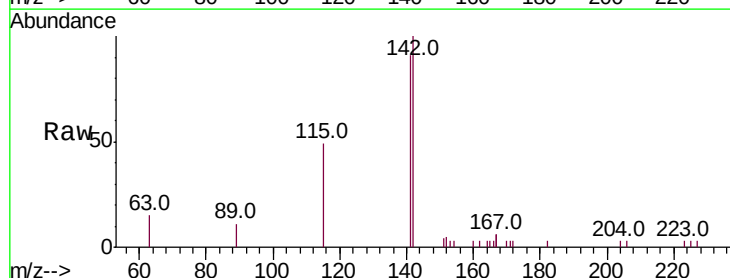
Manual Integrations  
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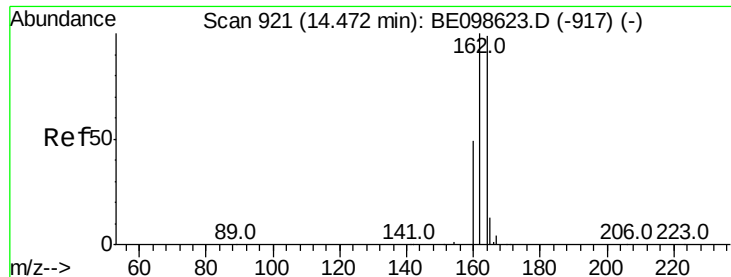


#12  
 2-Methylnaphthalene  
 Concen: 0.334 ng  
 RT: 12.30 min Scan# 769  
 Delta R.T. 0.01 min  
 Lab File: BE098667.D  
 Acq: 18 Jan 2019 16:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.5  | 70.0  | 105.0 |
| 115     | 49.4  | 35.2  | 52.8  |







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.49 min Scan# 921

Delta R.T. 0.01 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

Instrument :

BNA\_E

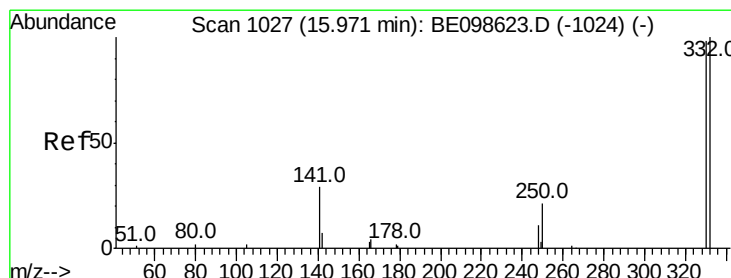
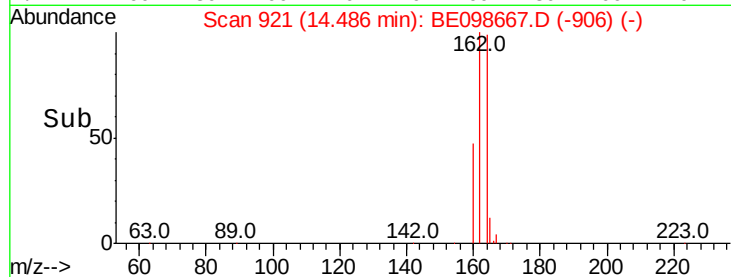
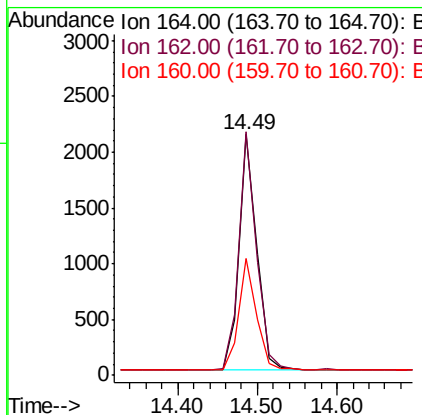
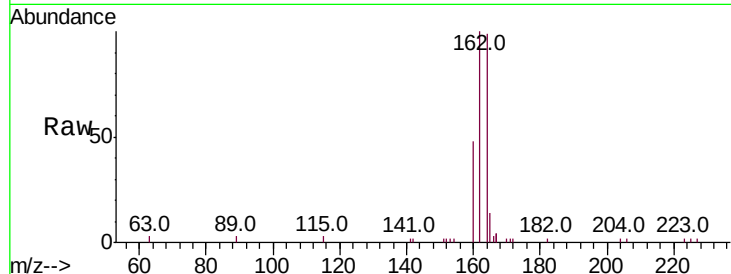
ClientSampleId :

PB116504BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 164   | Resp: | 3267  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 101.2 | 80.5  | 120.7 |
| 160      | 48.6  | 40.1  | 60.1  |

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#14

2,4,6-Tribromophenol

Concen: 0.384 ng

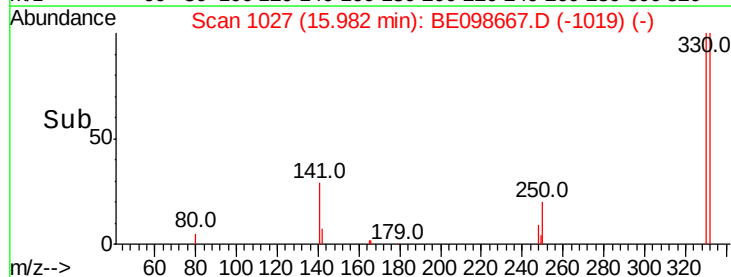
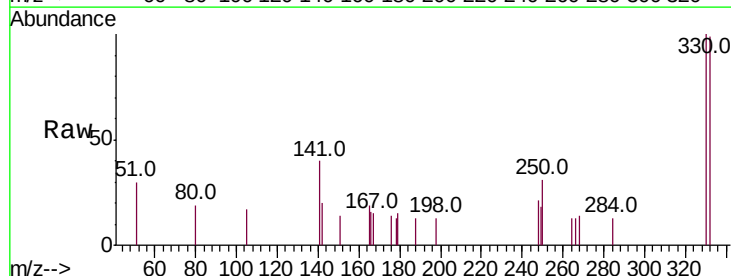
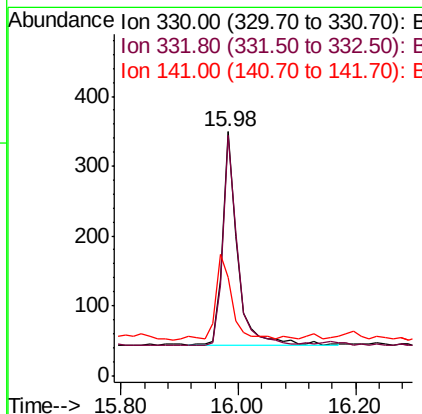
RT: 15.98 min Scan# 1027

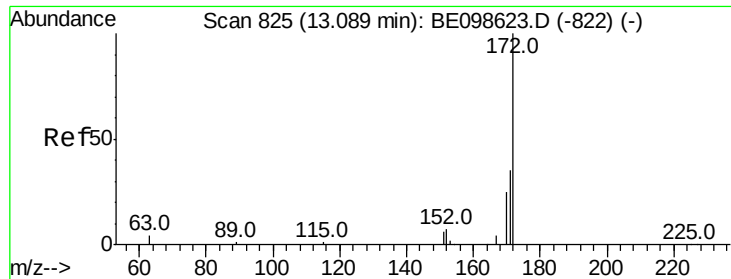
Delta R.T. 0.01 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 546   |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 98.2  | 73.3  | 109.9 |
| 141      | 41.6  | 33.1  | 49.7  |





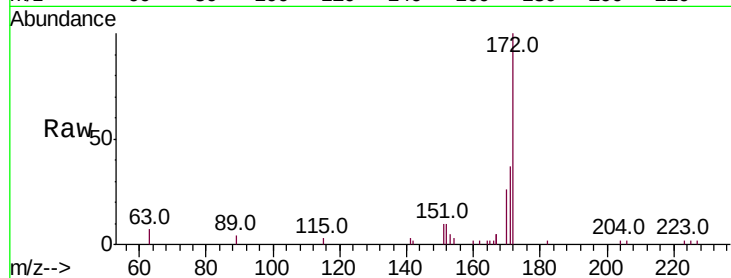
#15  
2-Fluorobiphenyl  
Concen: 0.325 ng  
RT: 13.10 min Scan# 825  
Delta R.T. 0.01 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

Instrument :  
BNA\_E  
ClientSampled :  
PB116504BS

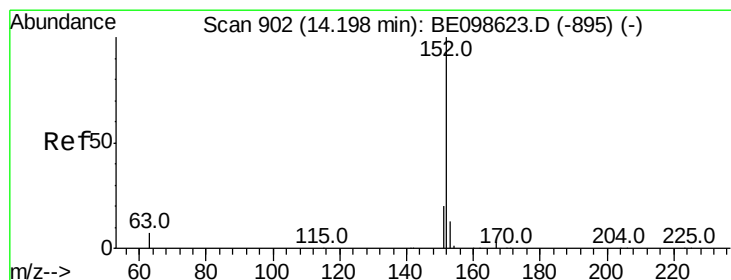
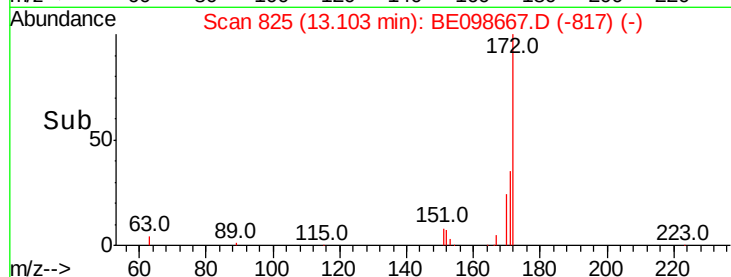
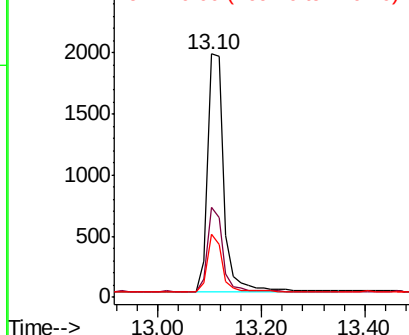
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 29.0  | 43.4  |
| 170     | 26.1  | 20.8  | 31.2  |

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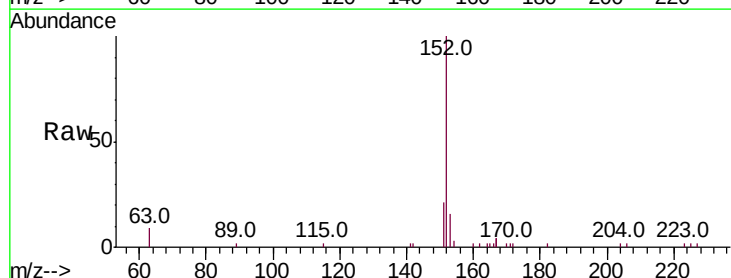


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

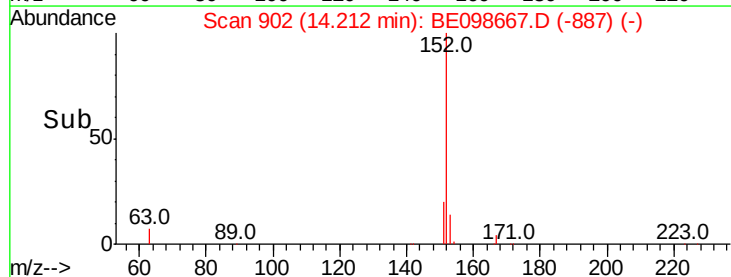
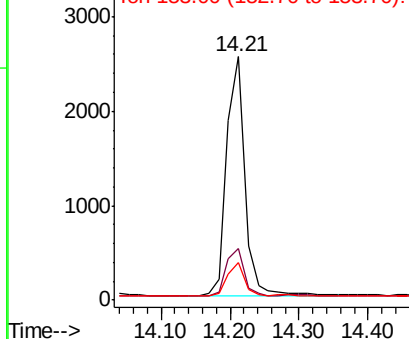


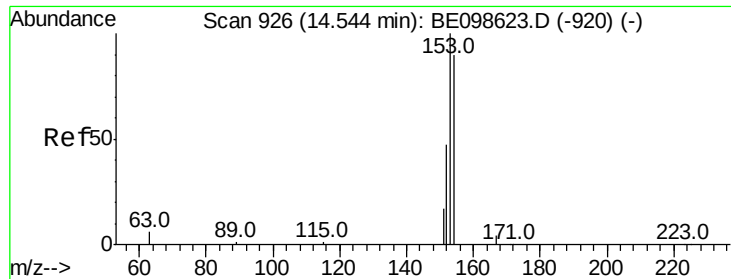
#16  
Acenaphthylene  
Concen: 0.329 ng  
RT: 14.21 min Scan# 902  
Delta R.T. 0.01 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.3  | 16.3  | 24.5  |
| 153     | 13.5  | 10.7  | 16.1  |



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





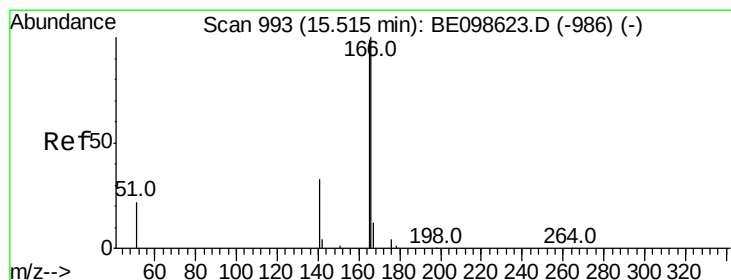
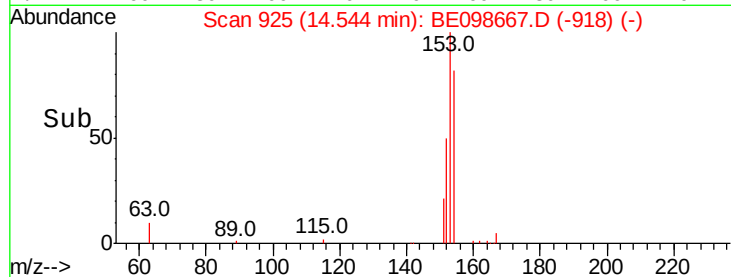
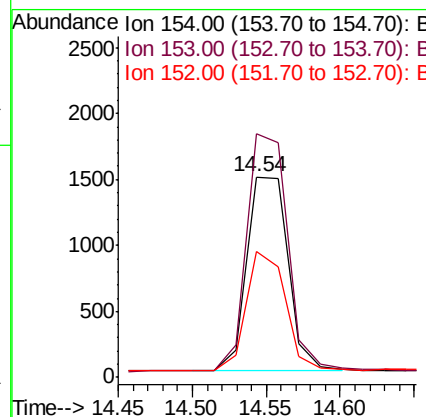
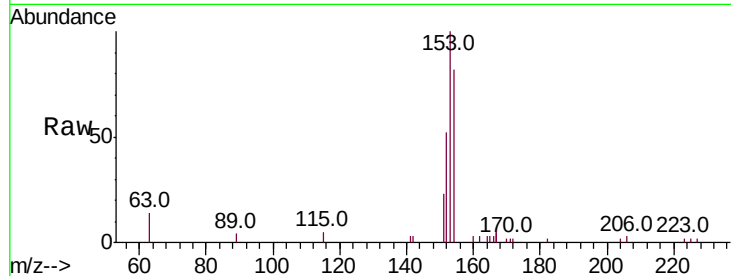
#17  
Acenaphthene  
Concen: 0.326 ng  
RT: 14.54 min Scan# 925  
Delta R.T. -0.00 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

Instrument :  
BNA\_E  
ClientSampleId :  
PB116504BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 120.2 | 93.9  | 140.9 |
| 152     | 58.7  | 45.8  | 68.8  |

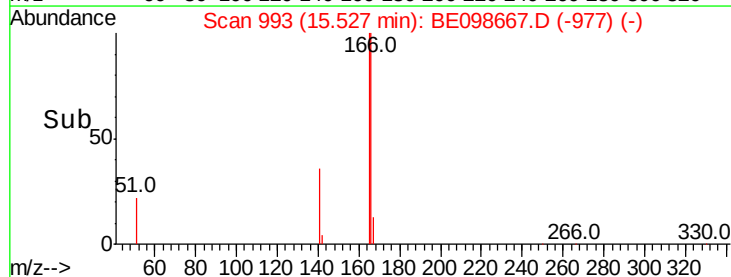
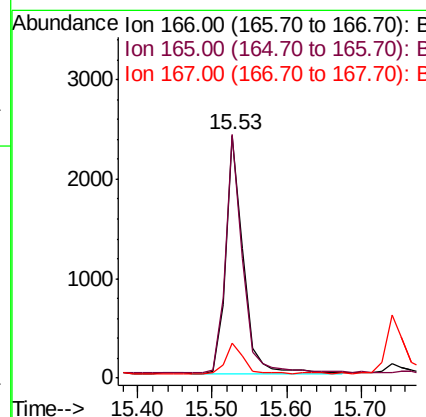
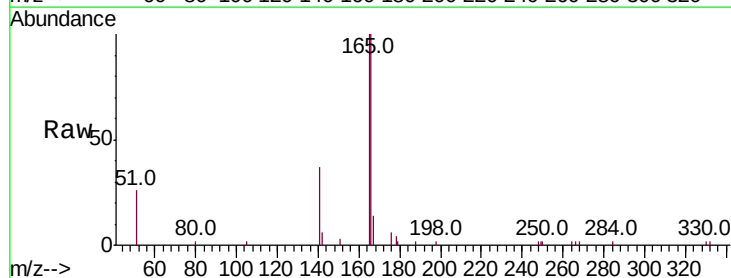
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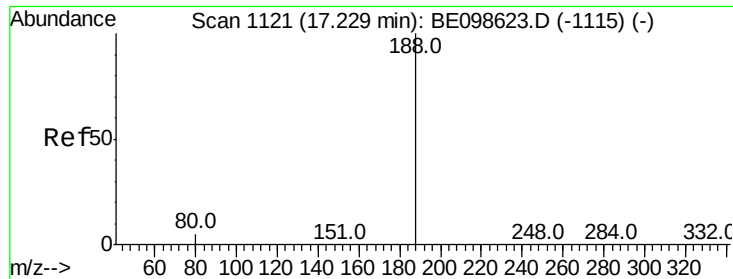
Sohil  
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#18  
Fluorene  
Concen: 0.342 ng  
RT: 15.53 min Scan# 993  
Delta R.T. 0.01 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.5  | 79.3  | 118.9 |
| 167     | 13.3  | 10.6  | 15.8  |





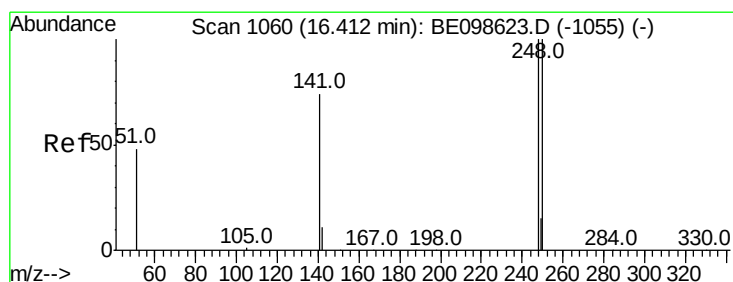
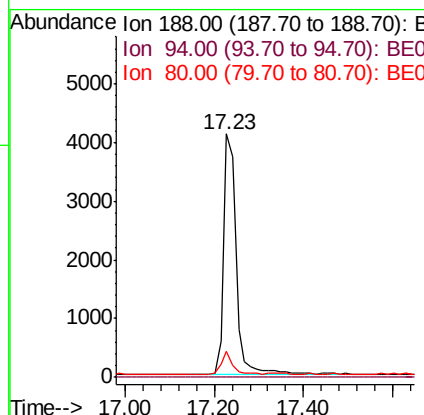
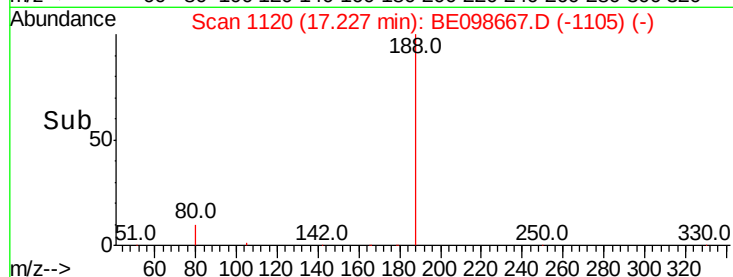
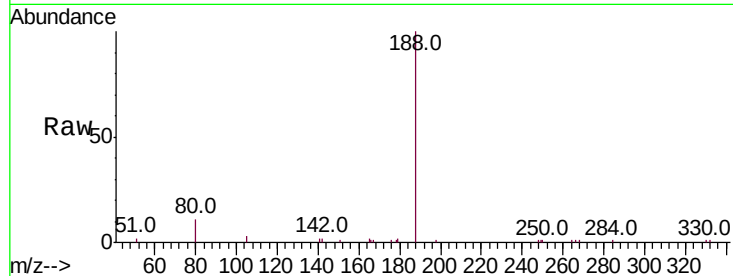
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.23 min Scan# 1120  
Delta R.T. -0.00 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

Instrument :  
BNA\_E  
ClientSampleId :  
PB116504BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 188   | Resp: | 8120 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 10.9  | 4.7   | 7.1# |

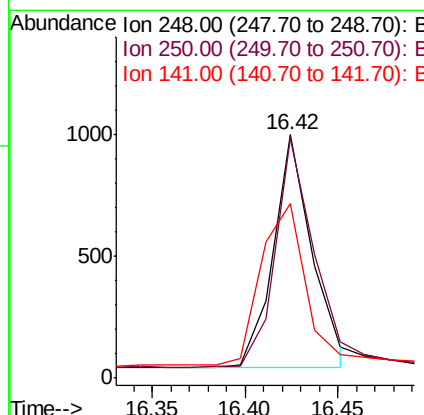
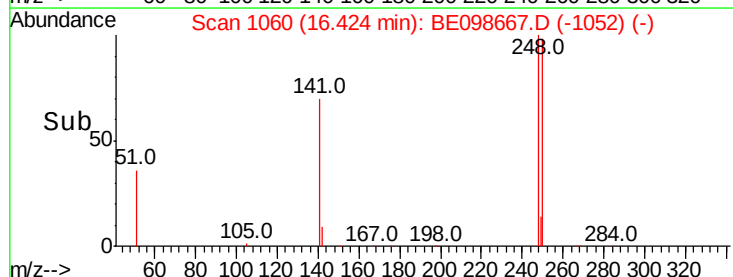
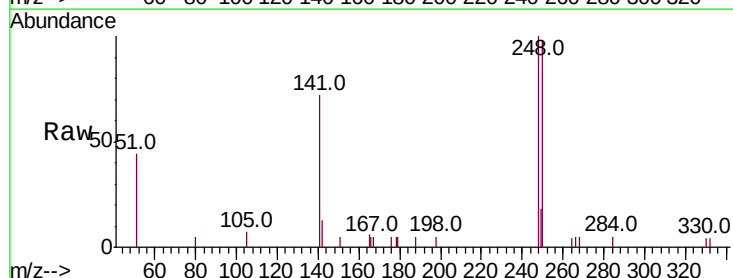
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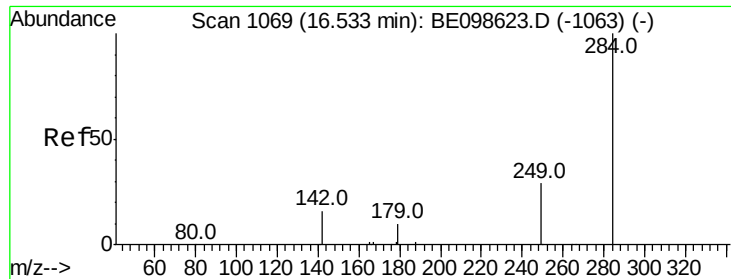
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#20  
4-Bromophenyl-phenylether  
Concen: 0.323 ng  
RT: 16.42 min Scan# 1060  
Delta R.T. 0.01 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 1391  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 98.3  | 80.2  | 120.4 |
| 141       | 71.5  | 60.5  | 90.7  |





#21

Hexachlorobenzene

Concen: 0.322 ng

RT: 16.54 min Scan# 1069

Delta R.T. 0.01 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

Instrument :

BNA\_E

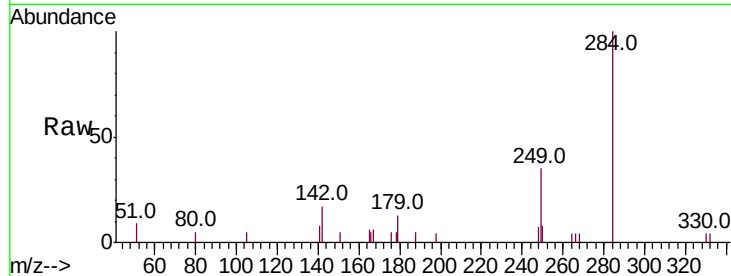
ClientSampled :

PB116504BS

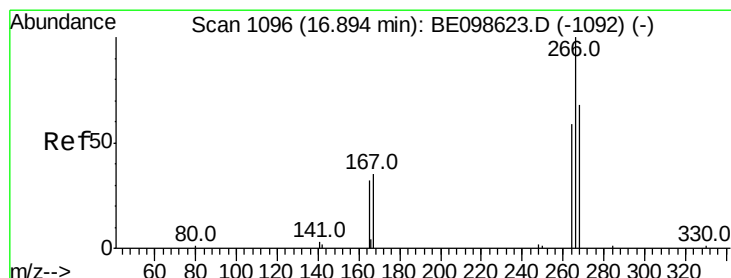
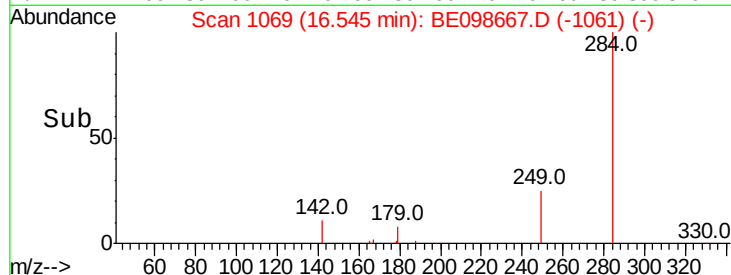
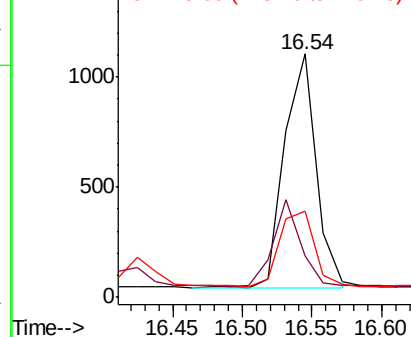
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 284   | Resp: | 1671 |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 32.7  | 25.5  | 38.3 |
| 249       | 35.1  | 26.6  | 39.8 |

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Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.481 ng

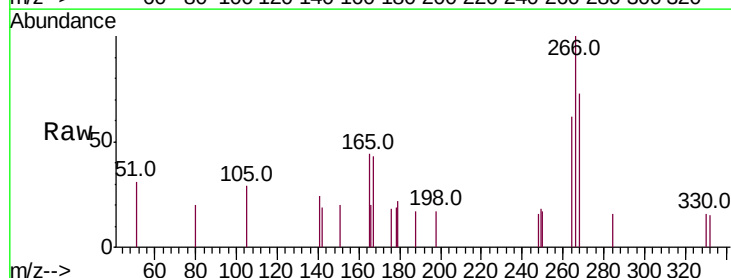
RT: 16.91 min Scan# 1096

Delta R.T. 0.01 min

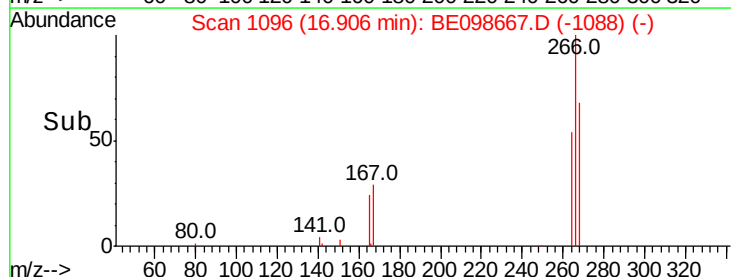
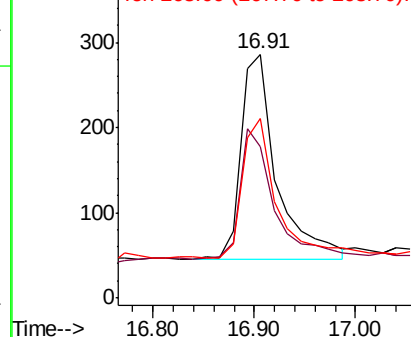
Lab File: BE098667.D

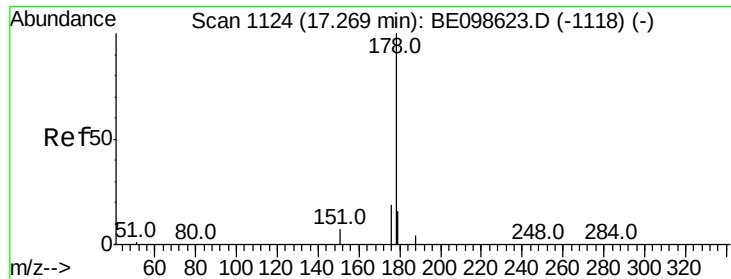
Acq: 18 Jan 2019 16:27

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 595  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 61.9  | 53.7  | 80.5 |
| 268       | 73.4  | 59.8  | 89.8 |



Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.330 ng

RT: 17.27 min Scan# 1123

Delta R.T. -0.00 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

Instrument :

BNA\_E

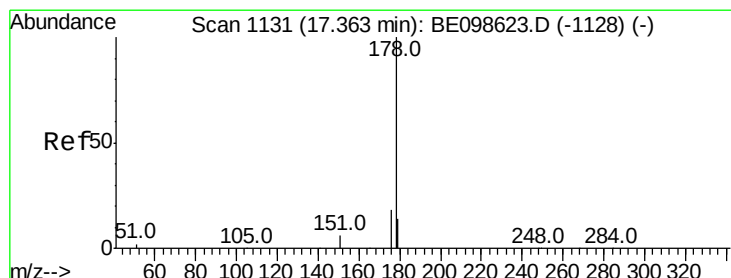
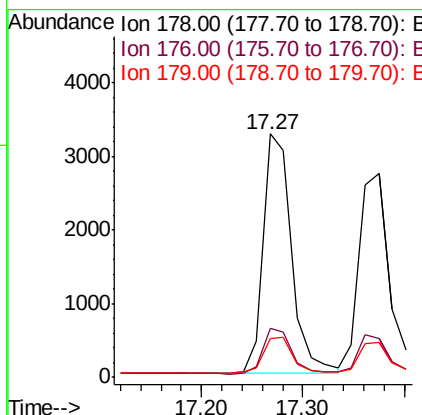
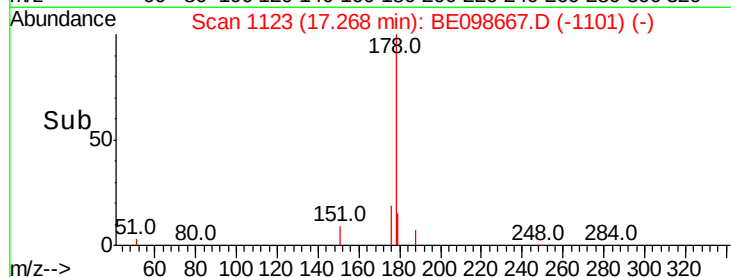
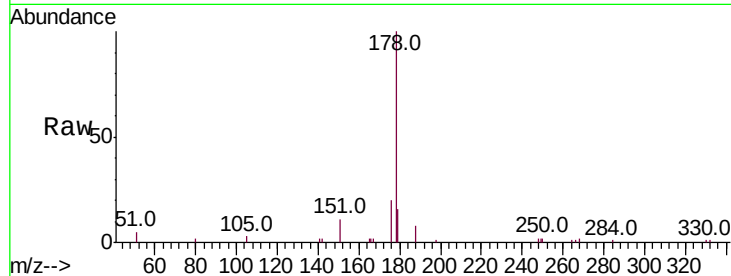
ClientSampleId :

PB116504BS

|             |       |       |
|-------------|-------|-------|
| Tot Ion:178 | Resp: | 6347  |
| Ion Ratio   | Lower | Upper |
| 178 100     |       |       |
| 176 19.2    | 15.9  | 23.9  |
| 179 15.7    | 12.2  | 18.4  |

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#24

Anthracene

Concen: 0.326 ng

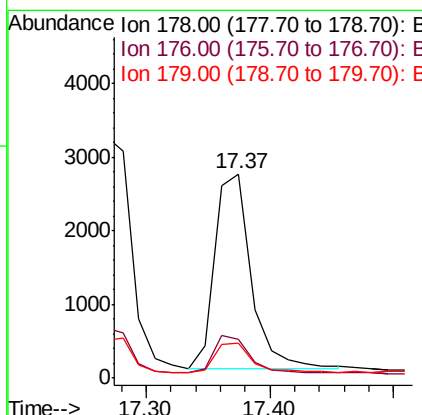
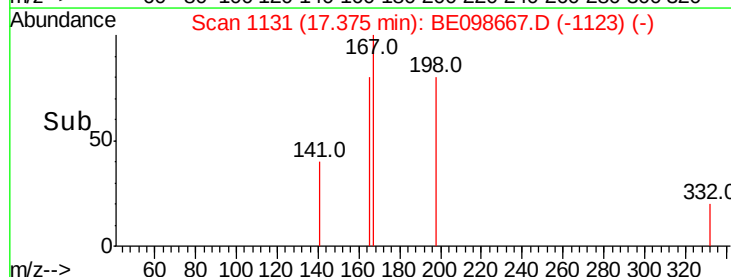
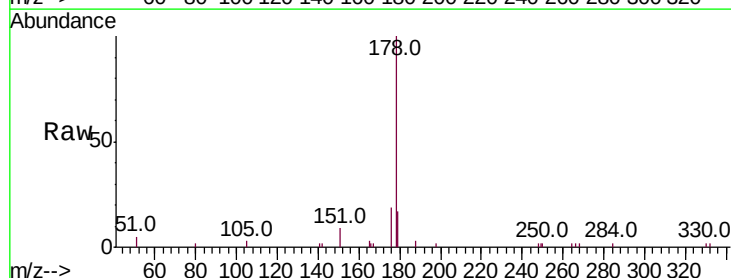
RT: 17.37 min Scan# 1131

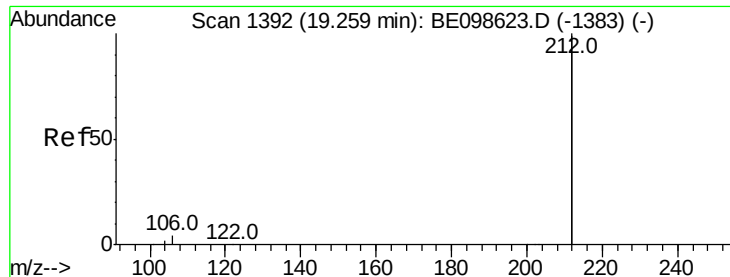
Delta R.T. 0.01 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:178 | Resp: | 5374  |
| Ion Ratio   | Lower | Upper |
| 178 100     |       |       |
| 176 18.6    | 14.9  | 22.3  |
| 179 15.8    | 11.8  | 17.8  |





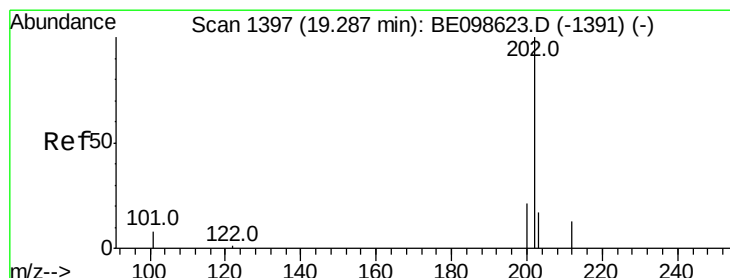
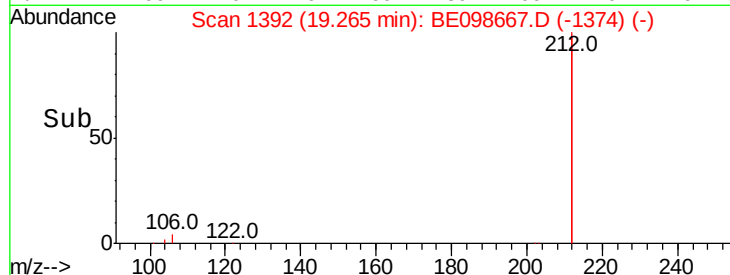
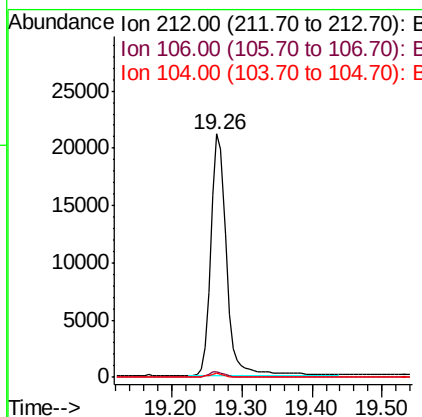
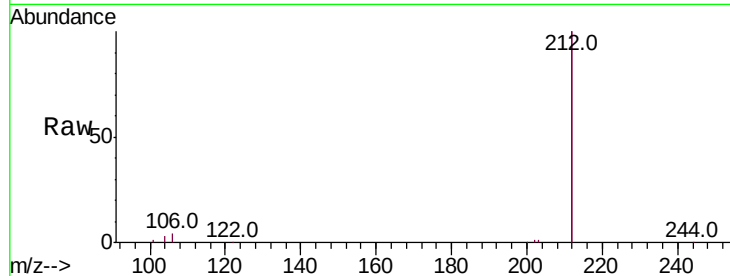
#25  
Fluoranthene-d10  
Concen: 0.320 ng  
RT: 19.26 min Scan# 1392  
Delta R.T. 0.01 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

Instrument :  
BNA\_E  
ClientSampleId :  
PB116504BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 1.9   | 1.7   | 2.5   |
| 104     | 1.1   | 1.0   | 1.6   |

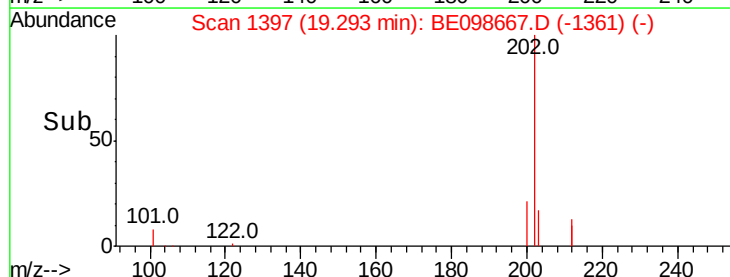
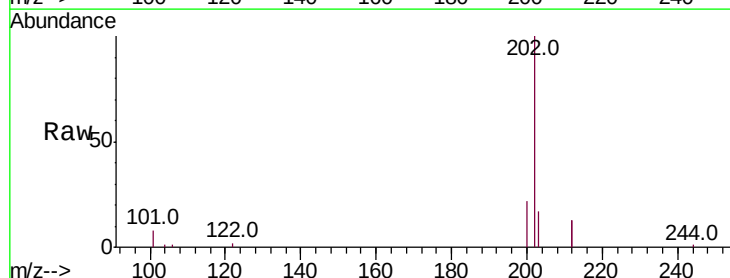
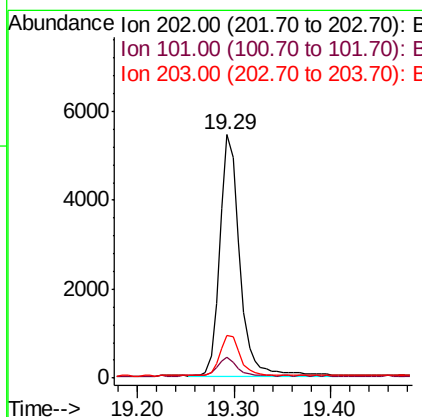
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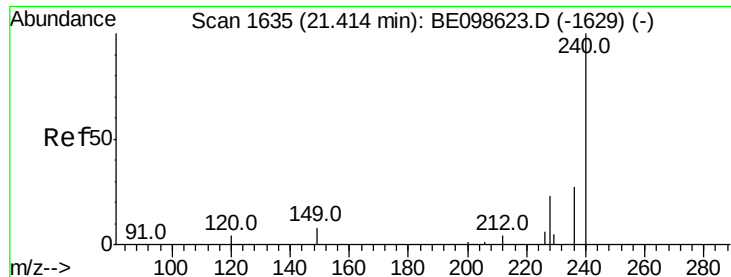
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#26  
Fluoranthene  
Concen: 0.317 ng  
RT: 19.29 min Scan# 1397  
Delta R.T. 0.01 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.3   | 6.7   | 10.1  |
| 203     | 17.2  | 13.3  | 19.9  |





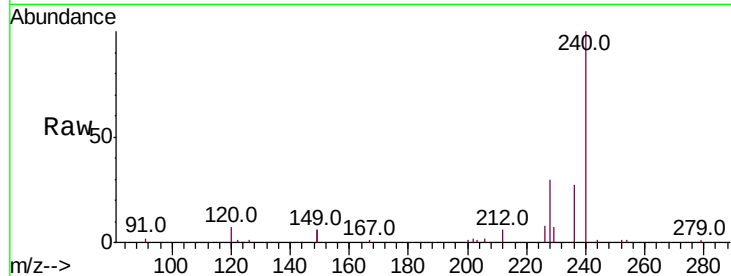
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.41 min Scan# 1634  
Delta R.T. 0.00 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

Instrument :  
BNA\_E  
ClientSampleId :  
PB116504BS

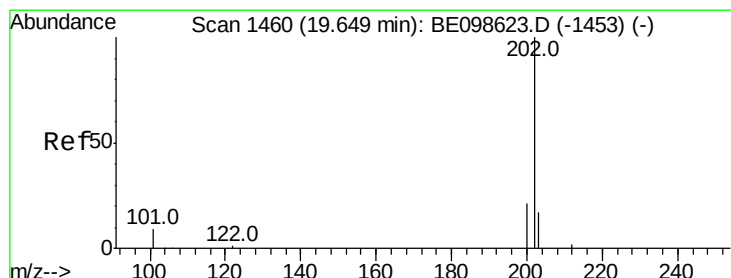
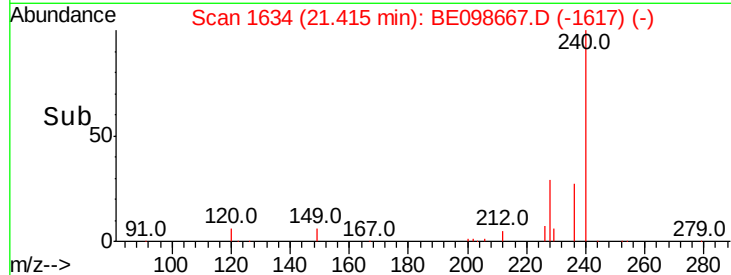
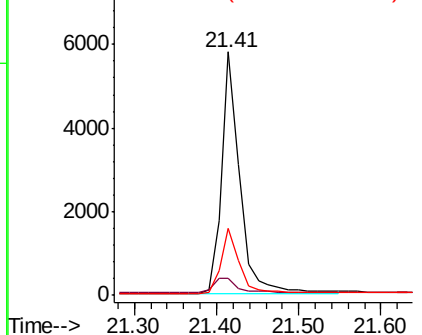
Tot Ion:240 Resp: 8945  
Ion Ratio Lower Upper  
240 100  
120 6.8 4.7 7.1  
236 27.5 21.9 32.9

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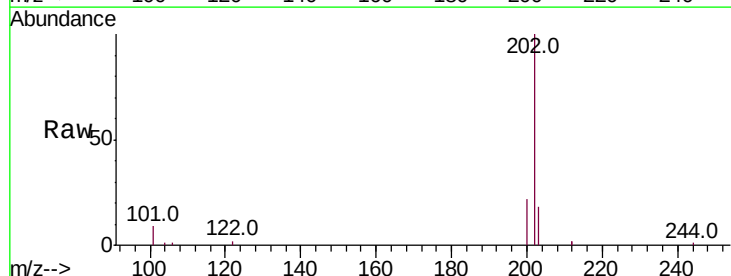


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

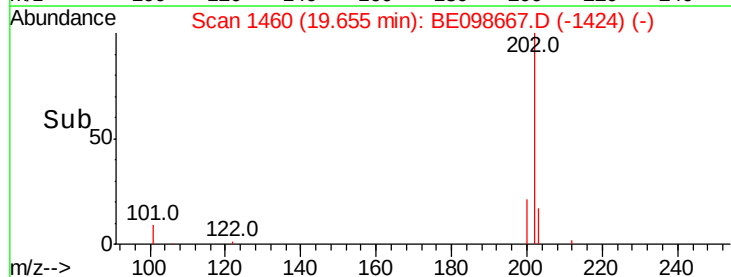
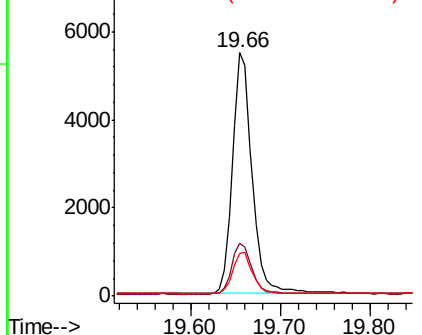


#28  
Pyrene  
Concen: 0.333 ng  
RT: 19.66 min Scan# 1460  
Delta R.T. 0.01 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

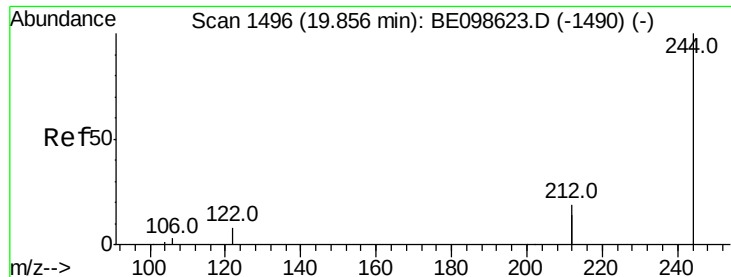
Tgt Ion:202 Resp: 8193  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.0 25.6  
203 17.5 13.8 20.8



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







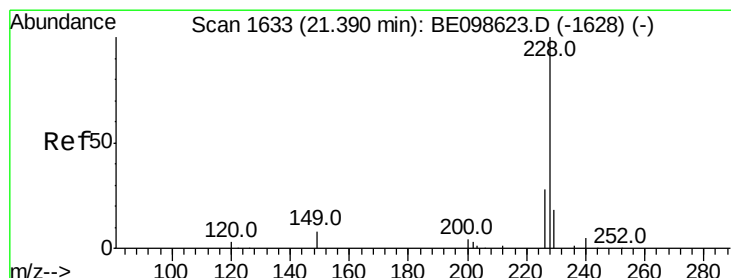
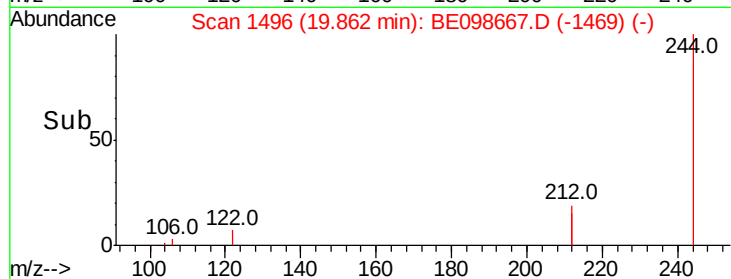
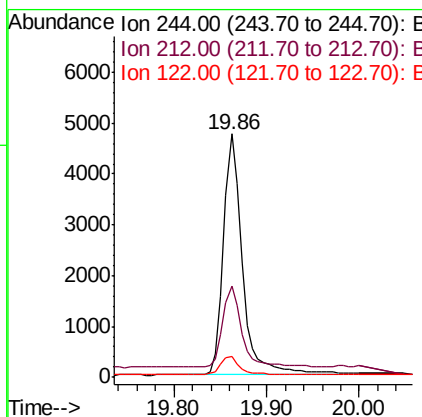
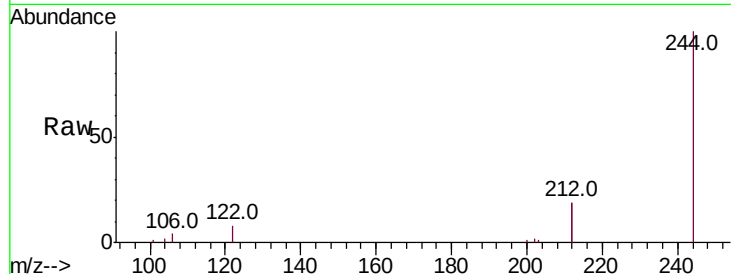
#29  
 Terphenyl-d14  
 Concen: 0.342 ng  
 RT: 19.86 min Scan# 1496  
 Delta R.T. 0.01 min  
 Lab File: BE098667.D  
 Acq: 18 Jan 2019 16:27

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116504BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 37.4  | 29.4  | 44.2  |
| 122     | 8.4   | 7.1   | 10.7  |

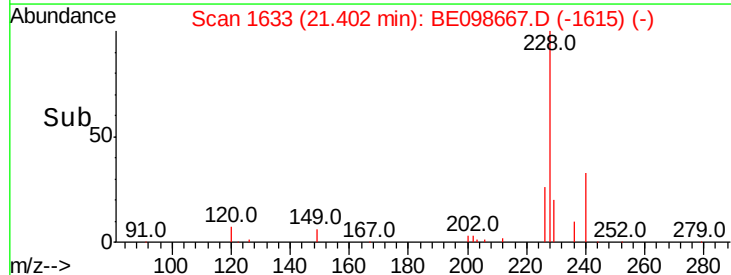
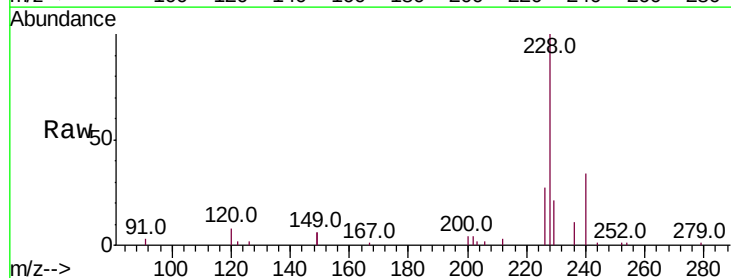
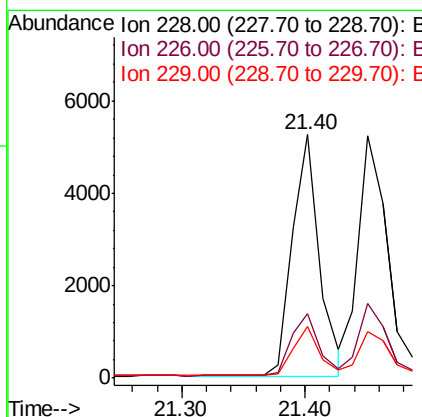
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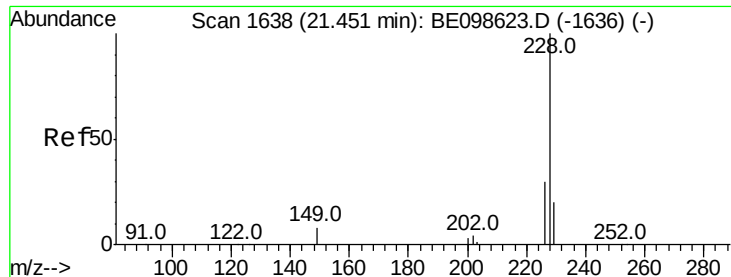
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#30  
 Benzo(a)anthracene  
 Concen: 0.331 ng  
 RT: 21.40 min Scan# 1633  
 Delta R.T. 0.01 min  
 Lab File: BE098667.D  
 Acq: 18 Jan 2019 16:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.5  | 23.0  | 34.4  |
| 229     | 21.1  | 15.0  | 22.6  |





#31

Chrysene

Concen: 0.336 ng

RT: 21.45 min Scan# 1637

Delta R.T. 0.00 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

PB116504BS

Tot Ion:228 Resp: 8365

Ion Ratio Lower Upper

228 100

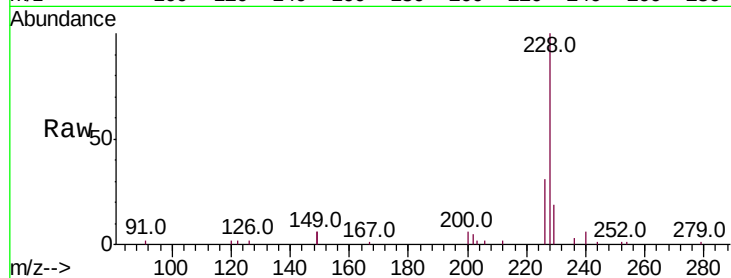
226 30.9 24.6 36.8

229 19.3 16.4 24.6

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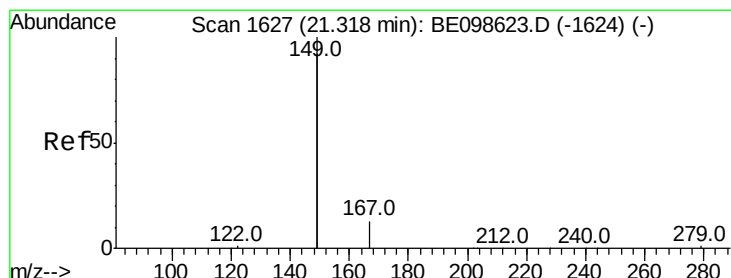
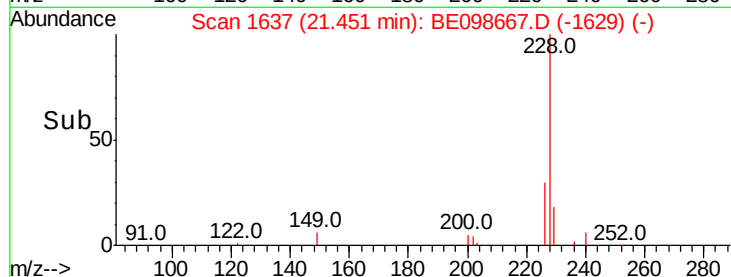
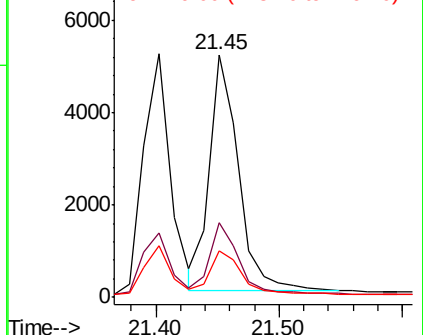
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.315 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

Tgt Ion:149 Resp: 16082

Ion Ratio Lower Upper

149 100

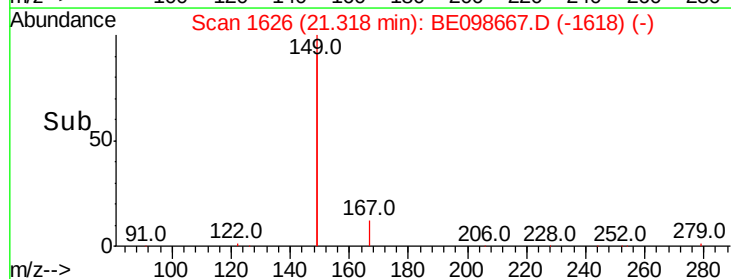
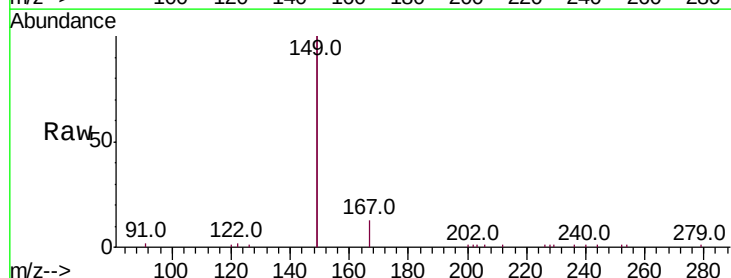
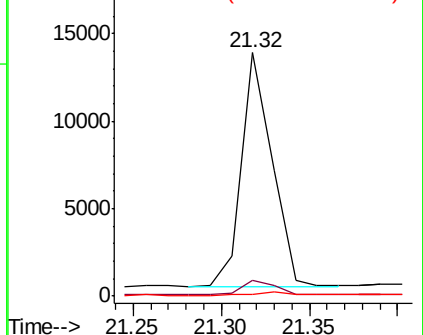
167 6.9 5.4 8.2

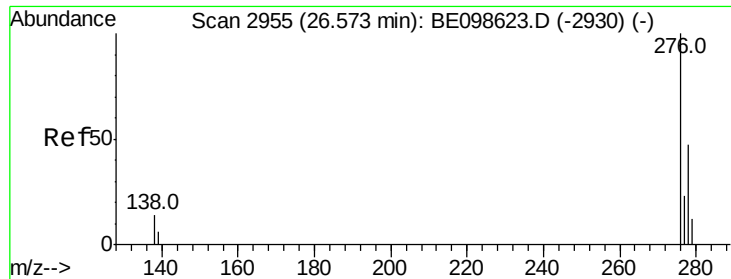
279 1.4 1.0 1.4

Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





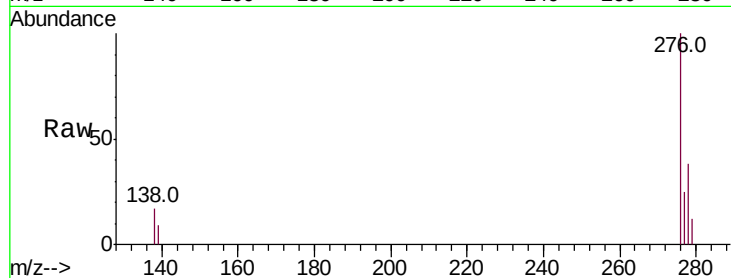
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.346 ng  
 RT: 26.58 min Scan# 2955  
 Delta R.T. 0.00 min  
 Lab File: BE098667.D  
 Acq: 18 Jan 2019 16:27

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116504BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.0  | 13.3  | 19.9  |
| 277     | 24.6  | 19.4  | 29.0  |

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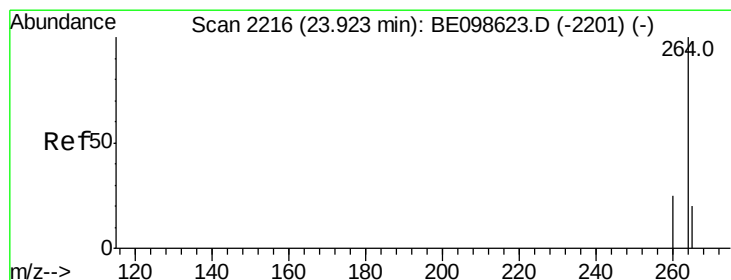
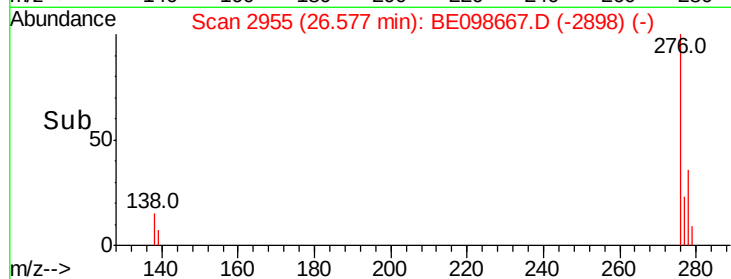
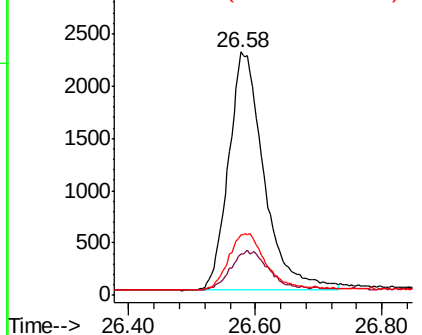


Abundance

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: 23.93 min Scan# 2217  
 Delta R.T. 0.01 min  
 Lab File: BE098667.D  
 Acq: 18 Jan 2019 16:27

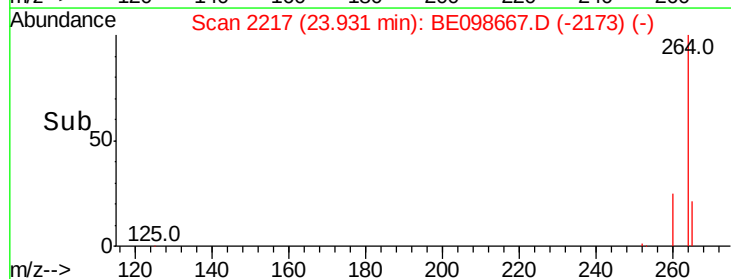
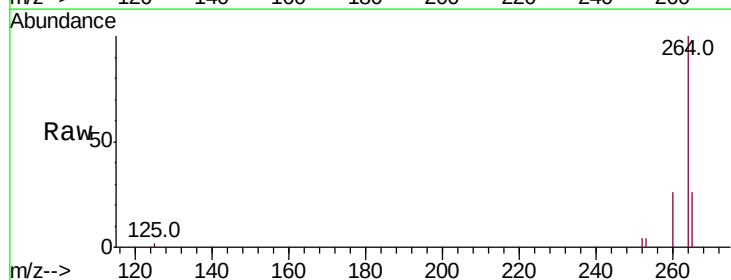
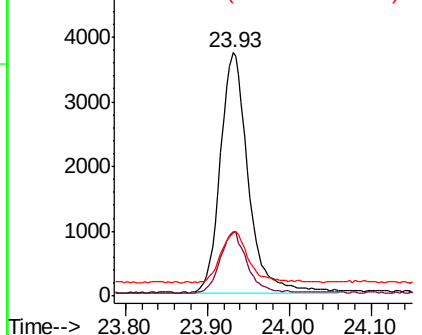
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.3  | 20.5  | 30.7  |
| 265     | 26.1  | 22.3  | 33.5  |

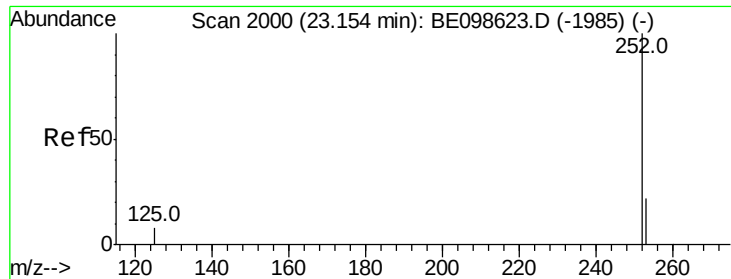
Abundance

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





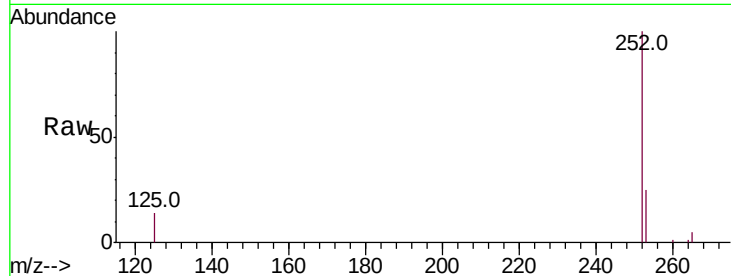
#35  
Benzo(b)fluoranthene  
Concen: 0.336 ng m  
RT: 23.16 min Scan# 2001  
Delta R.T. 0.01 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

Instrument :  
BNA\_E  
ClientSampleId :  
PB116504BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 19.4  | 29.0  |
| 125     | 14.0  | 8.2   | 12.4  |

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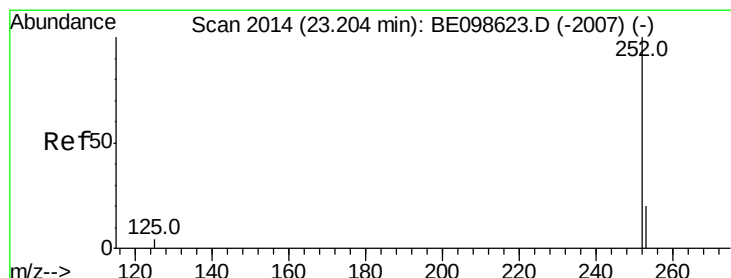
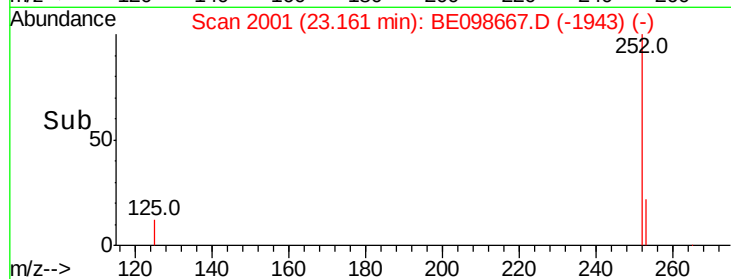
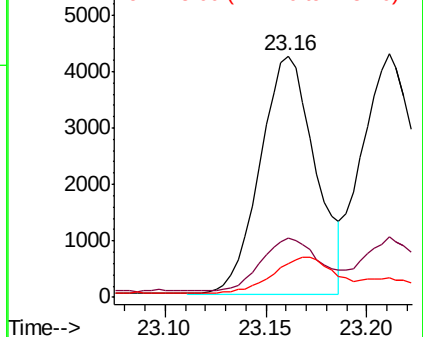


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36  
Benzo(k)fluoranthene  
Concen: 0.326 ng  
RT: 23.21 min Scan# 2015  
Delta R.T. 0.01 min  
Lab File: BE098667.D  
Acq: 18 Jan 2019 16:27

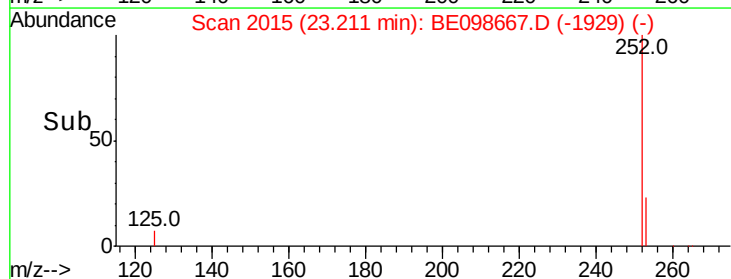
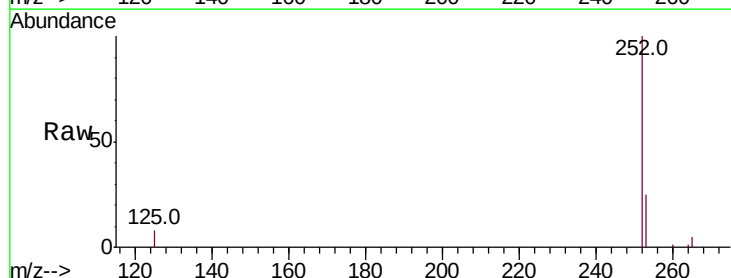
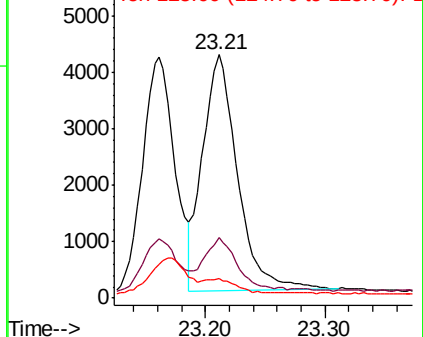
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.1  | 19.0  | 28.4  |
| 125     | 8.3   | 7.0   | 10.4  |

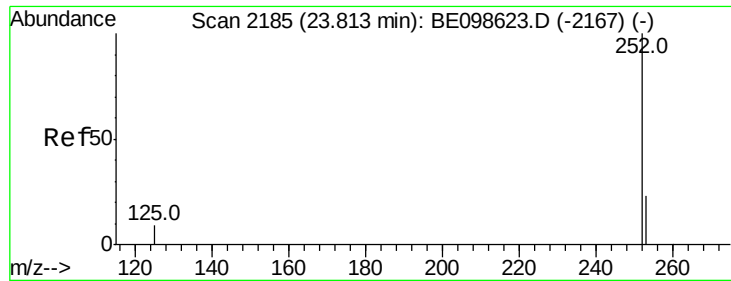
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.329 ng

RT: 23.82 min Scan# 2185

Delta R.T. 0.00 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

Instrument :

BNA\_E

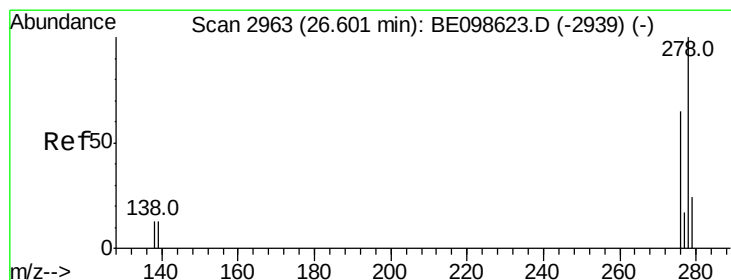
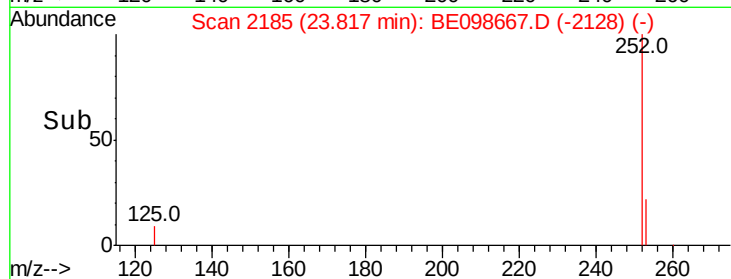
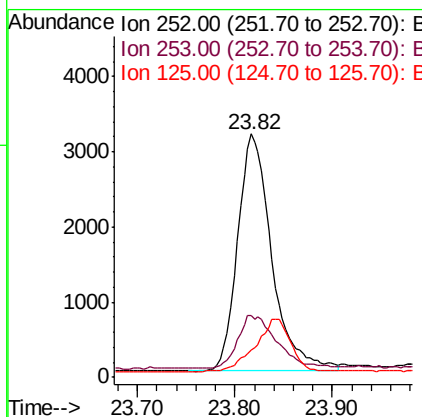
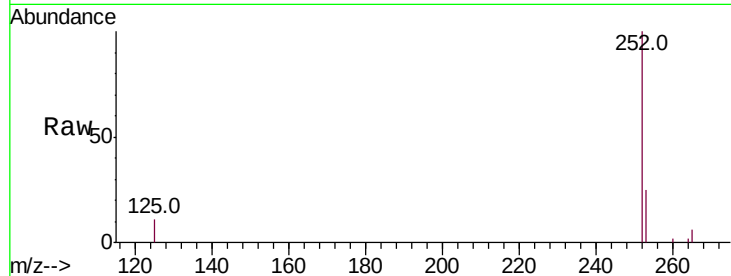
ClientSampleId :

PB116504BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 252   | Resp: | 7724  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 25.2  | 21.0  | 31.4  |
| 125      | 11.1  | 9.2   | 13.8  |

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#38

Dibenzo(a,h)anthracene

Concen: 0.352 ng

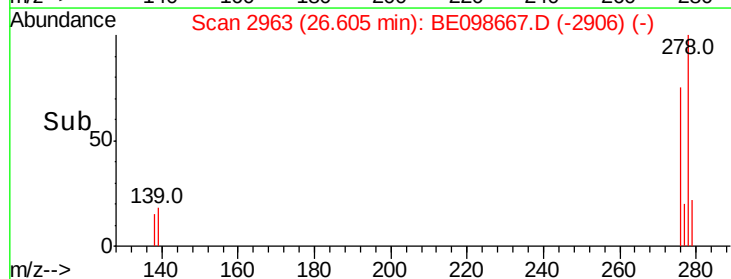
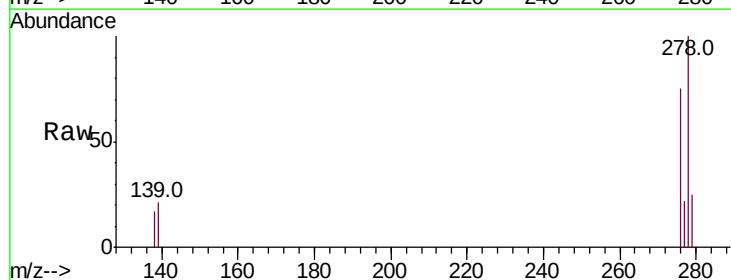
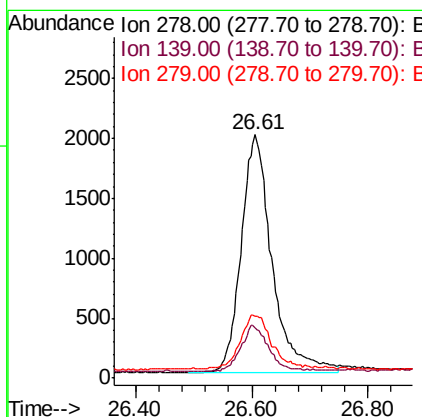
RT: 26.61 min Scan# 2963

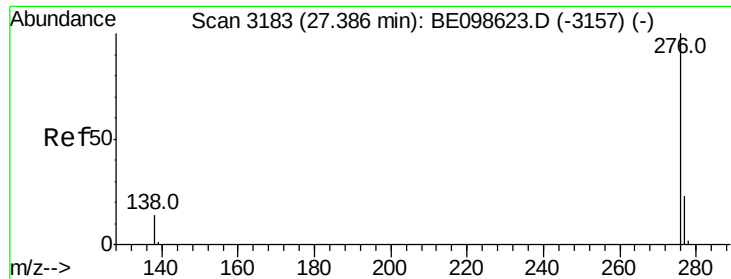
Delta R.T. 0.00 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 278   | Resp: | 7327  |
| Ion      | Ratio | Lower | Upper |
| 278      | 100   |       |       |
| 139      | 20.9  | 12.7  | 19.1# |
| 279      | 25.1  | 22.0  | 33.0  |





#39

Benzo(a,h,i)perylene

Concen: 0.331 ng

RT: 27.39 min Scan# 3183

Delta R.T. 0.00 min

Lab File: BE098667.D

Acq: 18 Jan 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

PB116504BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 7545 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 26.3  | 20.3  | 30.5 |
| 138       | 14.9  | 13.3  | 19.9 |

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