

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE051618\  
 Data File : BE096589.D  
 Acq On : 16 May 2018 9:52  
 Operator : SJ/JU  
 Sample : PB108420BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB108420BS

Manual Integrations  
 APPROVED

Sohil  
 5/17/2018 5:05:48 PM

Quant Time: May 17 04:00:00 2018  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE051518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 15 13:02:03 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.34  | 152  | 828      | 0.40  | ng    | 0.00     |
| 7) Naphthalene-d8              | 11.17 | 136  | 3092     | 0.40  | ng    | -0.01    |
| 13) Acenaphthene-d10           | 14.92 | 164  | 1587     | 0.40  | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.64 | 188  | 3257     | 0.40  | ng    | 0.00     |
| 27) Chrysene-d12               | 21.73 | 240  | 3454     | 0.40  | ng    | 0.00     |
| 34) Perylene-d12               | 24.33 | 264  | 3367     | 0.40  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.85  | 112  | 877      | 0.38  | ng    | 0.00     |
| 5) Phenol-d6                   | 7.50  | 99   | 1155     | 0.36  | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 9.53  | 82   | 1191m    | 0.36  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 12.72 | 152  | 1673     | 0.33  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 16.40 | 330  | 180      | 0.29  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 13.56 | 172  | 2533     | 0.37  | ng    | 0.00     |
| 25) Fluoranthene-d10           | 19.62 | 212  | 13886    | 0.35  | ng    | 0.00     |
| 29) Terphenyl-d14              | 20.18 | 244  | 2598     | 0.33  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.59  | 88   | 358      | 0.288 | ng    | # 87     |
| 3) n-Nitrosodimethylamine      | 3.95  | 42   | 597      | 0.384 | ng    | # 74     |
| 6) bis(2-Chloroethyl)ether     | 7.74  | 93   | 975      | 0.323 | ng    | 94       |
| 9) Naphthalene                 | 11.22 | 128  | 11684    | 0.359 | ng    | 99       |
| 10) Hexachlorobutadiene        | 11.49 | 225  | 604      | 0.332 | ng    | # 86     |
| 12) 2-Methylnaphthalene        | 12.79 | 142  | 1913     | 0.343 | ng    | 97       |
| 16) Acenaphthylene             | 14.66 | 152  | 2704     | 0.326 | ng    | 98       |
| 17) Acenaphthene               | 14.99 | 154  | 1662     | 0.329 | ng    | 92       |
| 18) Fluorene                   | 15.96 | 166  | 2064     | 0.329 | ng    | # 60     |
| 20) 4-Bromophenyl-phenylether  | 16.82 | 248  | 636      | 0.322 | ng    | # 75     |
| 21) Hexachlorobenzene          | 16.95 | 284  | 680      | 0.330 | ng    | # 78     |
| 22) Pentachlorophenol          | 17.31 | 266  | 155      | 0.416 | ng    | 85       |
| 23) Phenanthrene               | 17.67 | 178  | 3208     | 0.351 | ng    | 99       |
| 24) Anthracene                 | 17.77 | 178  | 2998     | 0.352 | ng    | 95       |
| 26) Fluoranthene               | 19.65 | 202  | 3880     | 0.355 | ng    | # 97     |
| 28) Pyrene                     | 20.00 | 202  | 1835     | 0.294 | ng    | 96       |
| 30) Benzo(a)anthracene         | 21.72 | 228  | 3834     | 0.361 | ng    | 97       |
| 31) Chrysene                   | 21.77 | 228  | 3826     | 0.346 | ng    | 96       |
| 32) Bis(2-ethylhexyl)phthalate | 21.58 | 149  | 7055     | 0.310 | ng    | # 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 27.10 | 276  | 4116     | 0.388 | ng    | # 93     |
| 35) Benzo(b)fluoranthene       | 23.52 | 252  | 3792     | 0.365 | ng    | # 92     |
| 36) Benzo(k)fluoranthene       | 23.58 | 252  | 3764     | 0.342 | ng    | # 92     |
| 37) Benzo(a)pyrene             | 24.21 | 252  | 3616     | 0.364 | ng    | # 90     |
| 38) Dibenzo(a,h)anthracene     | 27.10 | 278  | 3314     | 0.365 | ng    | 97       |
| 39) Benzo(g,h,i)perylene       | 27.96 | 276  | 3470     | 0.365 | ng    | # 90     |

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

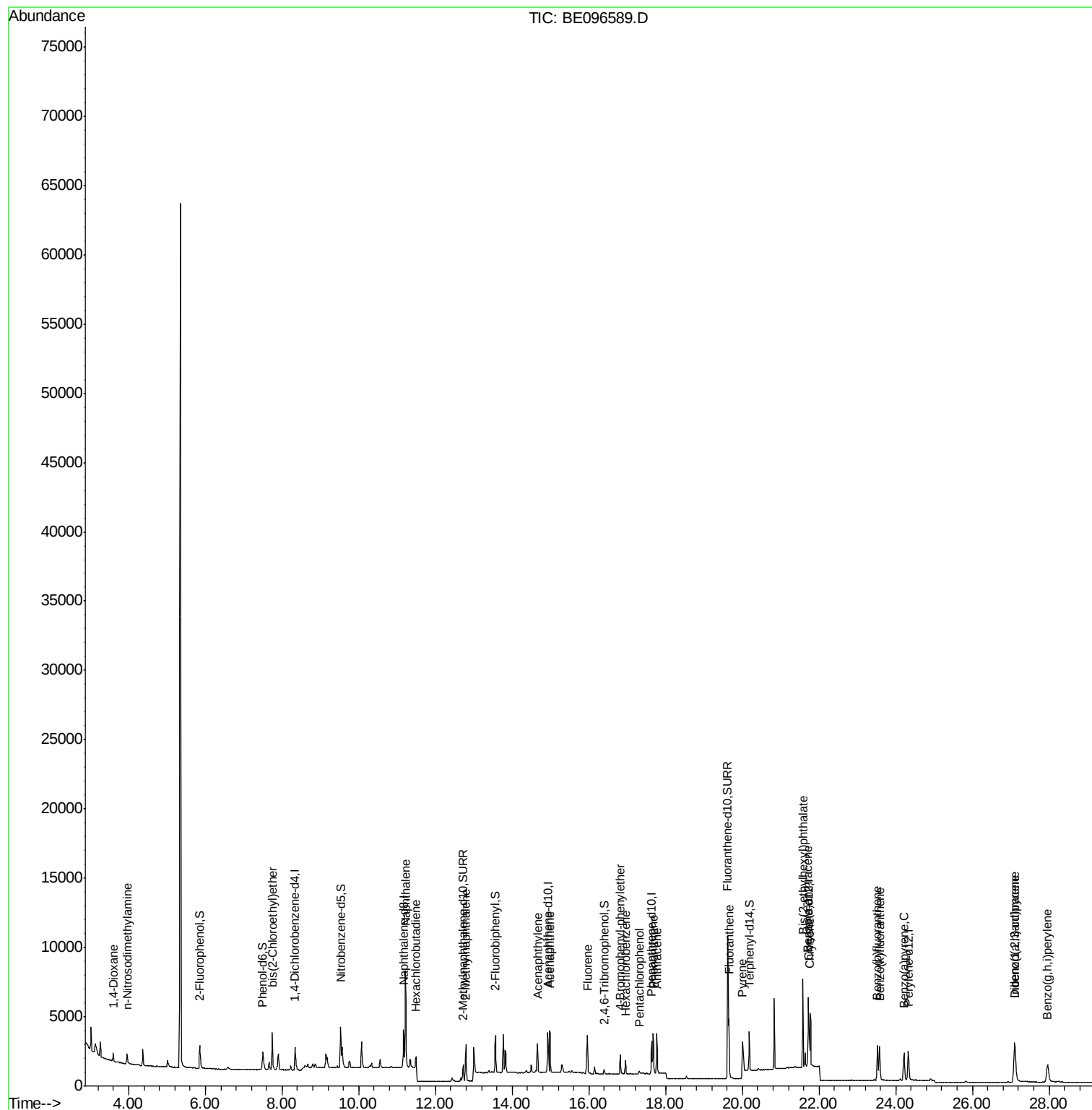
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE051618\  
Data File : BE096589.D  
Acq On : 16 May 2018 9:52  
Operator : SJ/JU  
Sample : PB108420BS  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
PB108420BS

Manual Integrations  
APPROVED

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Quant Time: May 17 04:00:00 2018  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE051518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 15 13:02:03 2018  
Response via : Initial Calibration

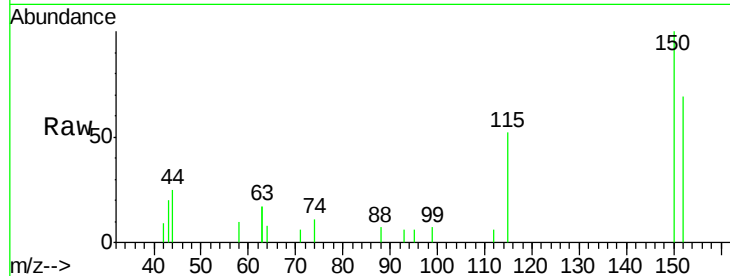




#1

1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 8.34 min Scan# 560  
Delta R.T. -0.00 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

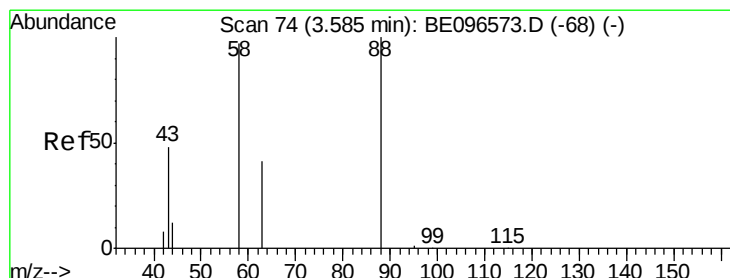
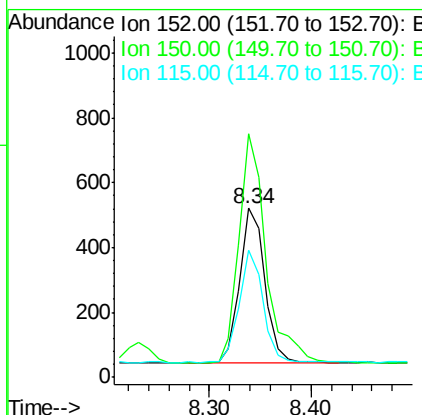
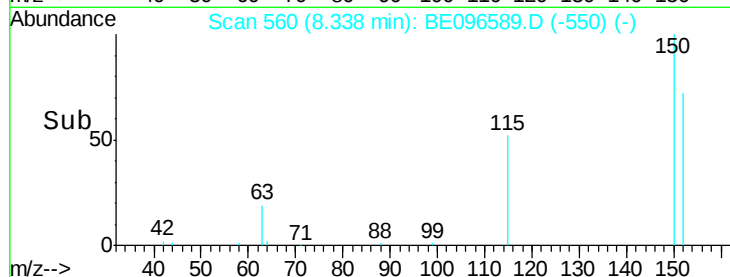
Instrument :  
BNA\_E  
ClientSampleId :  
PB108420BS



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 144.1 | 117.2 | 175.8 |
| 115     | 75.0  | 57.0  | 85.6  |

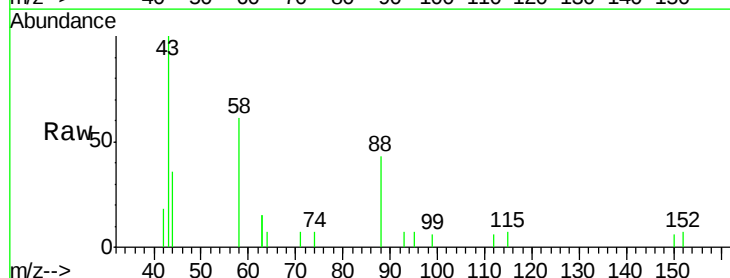
Manual Integrations  
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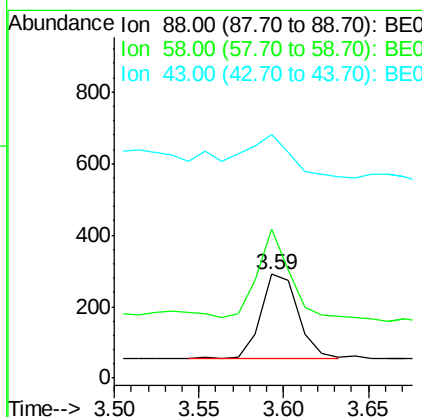
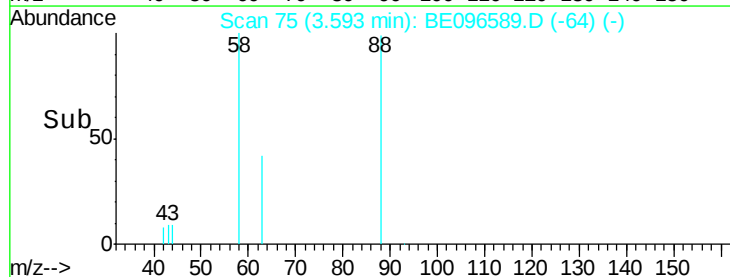


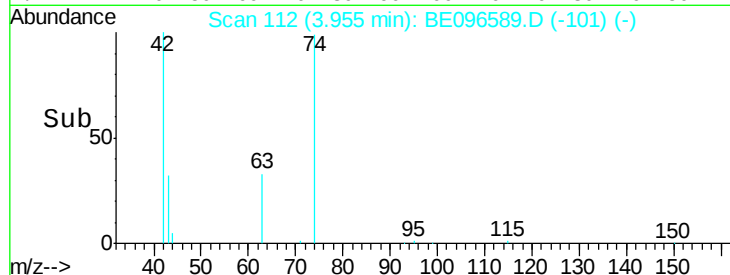
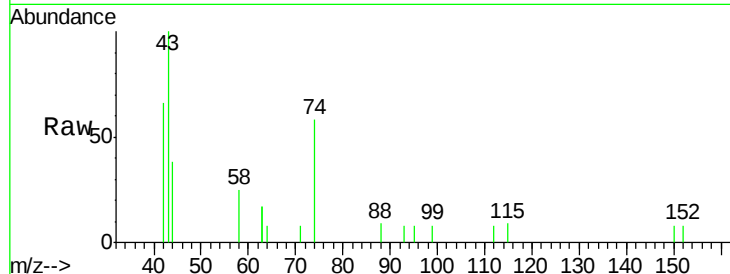
#2

1,4-Dioxane  
Concen: 0.288 ng  
RT: 3.59 min Scan# 75  
Delta R.T. 0.01 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 88.5  | 63.2  | 94.8  |
| 43      | 62.3  | 41.2  | 61.8  |





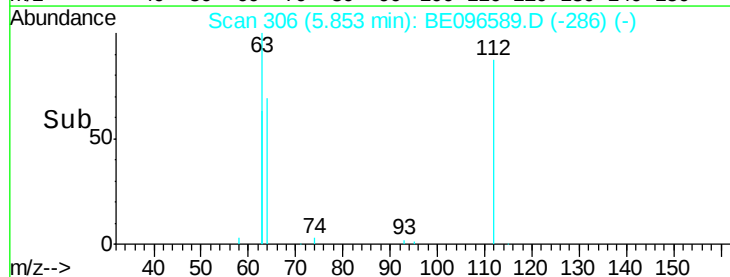
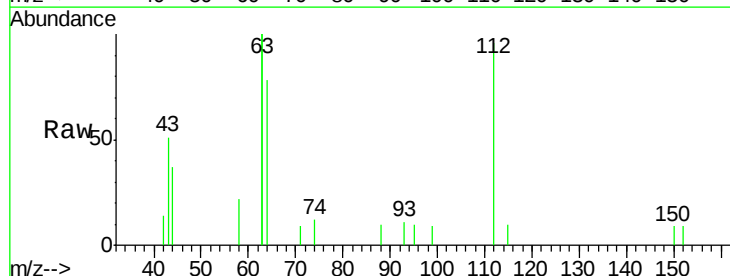
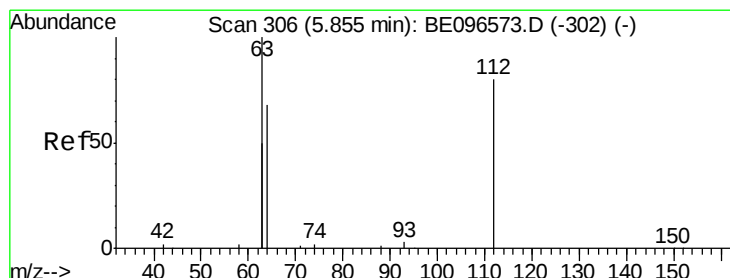
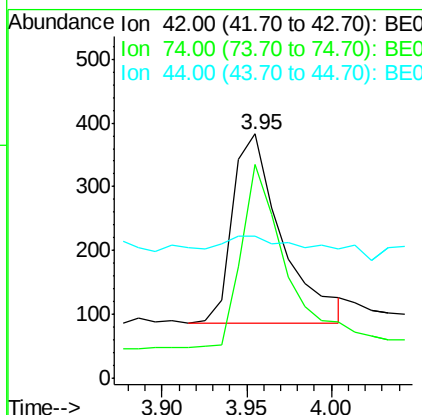
#3  
n-Nitrosodimethylamine  
Concen: 0.384 ng  
RT: 3.95 min Scan# 112  
Delta R.T. 0.01 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 42      | 100   |       |        |
| 74      | 88.9  | 96.0  | 144.0# |
| 44      | 11.7  | 12.0  | 18.0#  |

Instrument :  
BNA\_E  
ClientSampled :  
PB108420BS

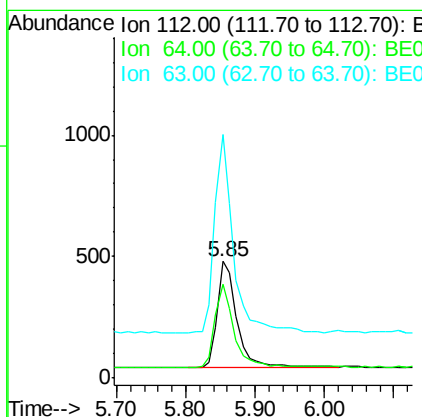
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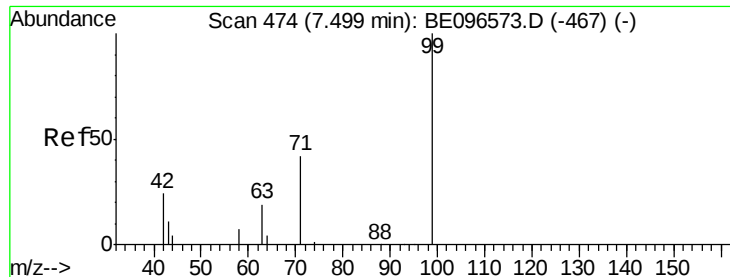
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#4  
2-Fluorophenol  
Concen: 0.384 ng  
RT: 5.85 min Scan# 306  
Delta R.T. -0.00 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 73.5  | 60.1  | 90.1  |
| 63      | 174.1 | 116.8 | 175.2 |





#5

Phenol-d6

Concen: 0.357 ng

RT: 7.50 min Scan# 474

Delta R.T. -0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

Instrument :

BNA\_E

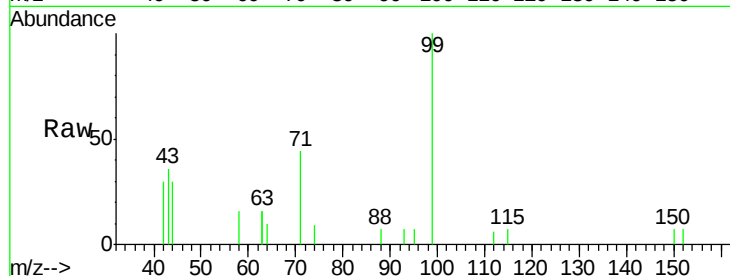
ClientSampleId :

PB108420BS

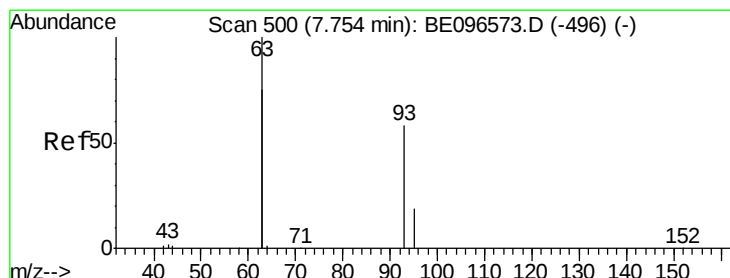
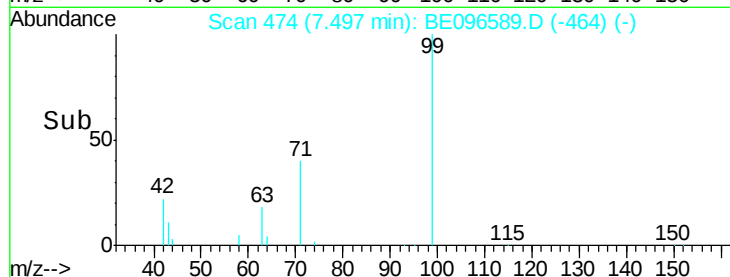
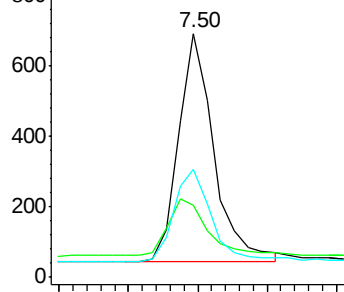
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1155  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 27.6  | 20.2  | 30.2  |
| 71       | 41.6  | 28.4  | 42.6  |

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Abundance Ion 99.00 (98.70 to 99.70): BE0  
Ion 42.00 (41.70 to 42.70): BE0  
Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.323 ng

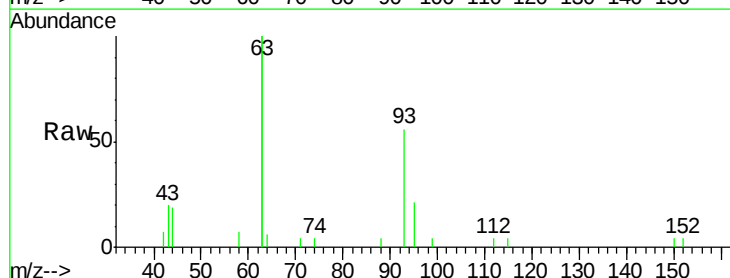
RT: 7.74 min Scan# 499

Delta R.T. -0.01 min

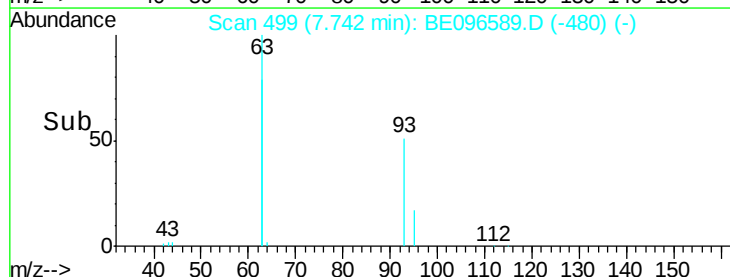
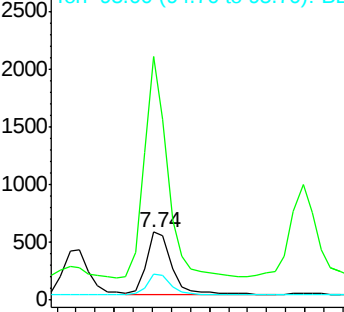
Lab File: BE096589.D

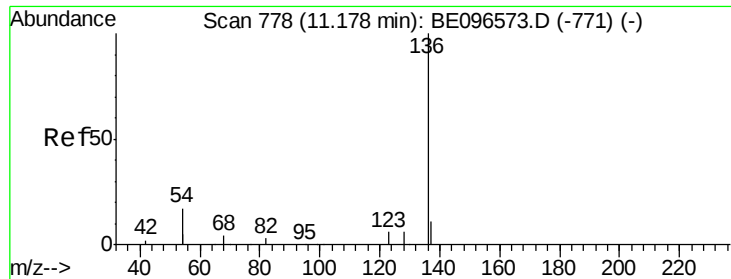
Acq: 16 May 2018 9:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 975   |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 329.5 | 275.3 | 412.9 |
| 95       | 32.2  | 25.2  | 37.8  |



Abundance Ion 93.00 (92.70 to 93.70): BE0  
Ion 63.00 (62.70 to 63.70): BE0  
Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.17 min Scan# 777

Delta R.T. -0.01 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

Instrument :

BNA\_E

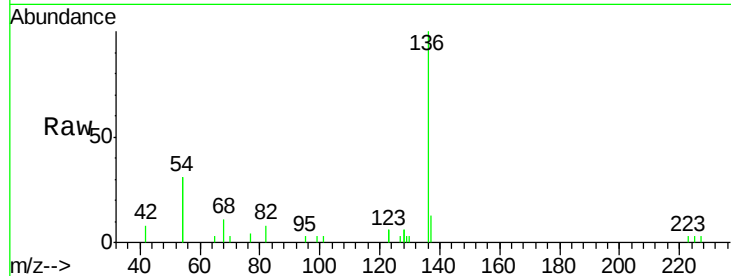
ClientSampleId :

PB108420BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 3092  |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 13.3  | 9.5   | 14.3  |
| 54        | 61.1  | 29.1  | 43.7# |
| 68        | 10.6  | 6.2   | 9.2#  |

Manual Integrations  
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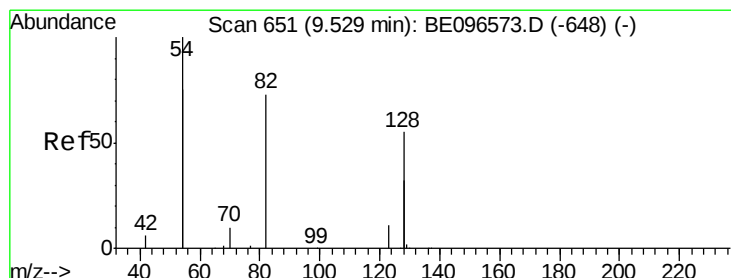
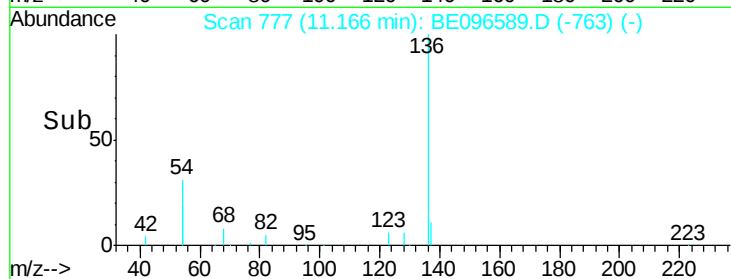
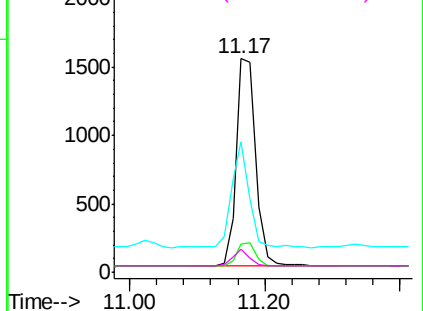


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.362 ng m

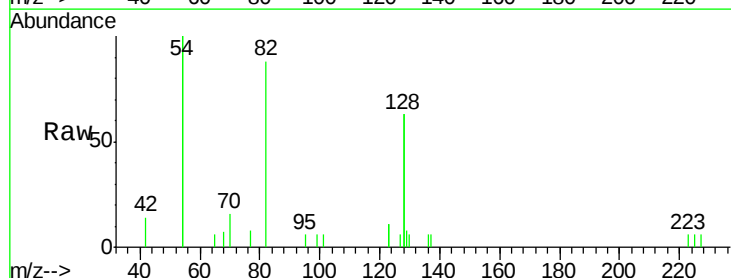
RT: 9.53 min Scan# 651

Delta R.T. 0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

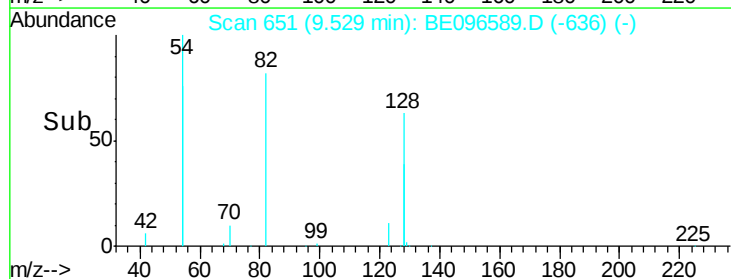
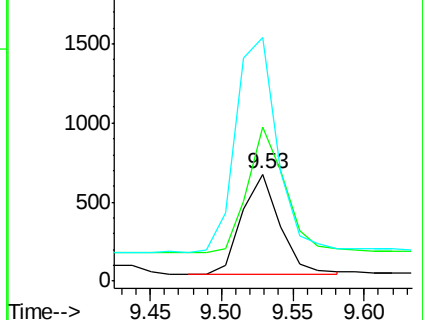
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 1191   |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 72.0  | 150.0 | 225.0# |
| 54        | 114.1 | 154.2 | 231.4# |

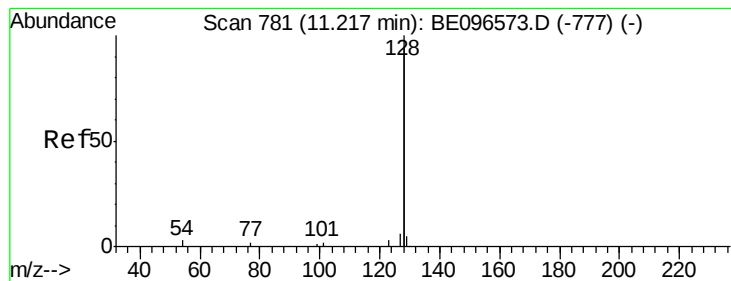


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.359 ng

RT: 11.22 min Scan# 781

Delta R.T. 0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

Instrument :

BNA\_E

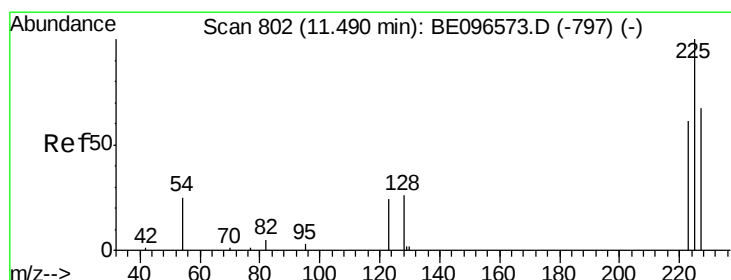
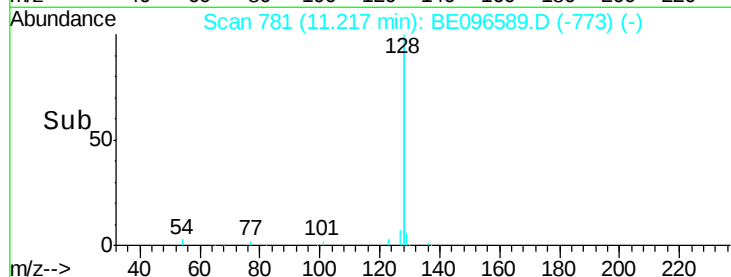
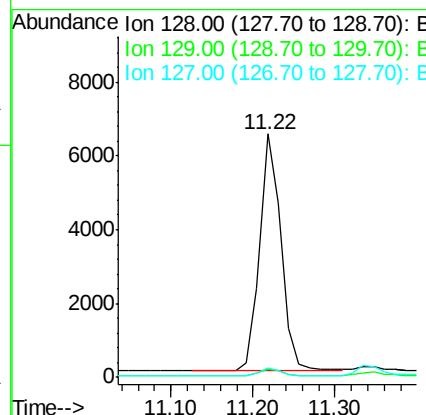
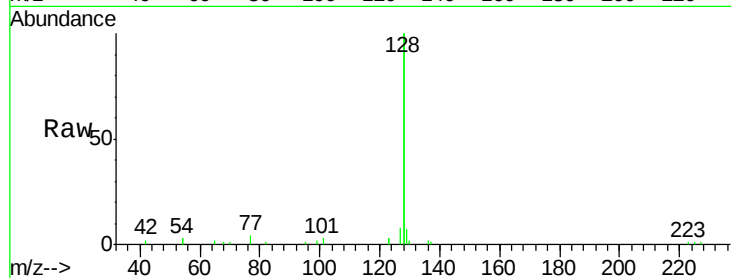
ClientSampleId :

PB108420BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 11684 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.5   | 2.6   | 3.8   |
| 127       | 4.0   | 2.8   | 4.2   |

Manual Integrations  
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#10

Hexachlorobutadiene

Concen: 0.332 ng

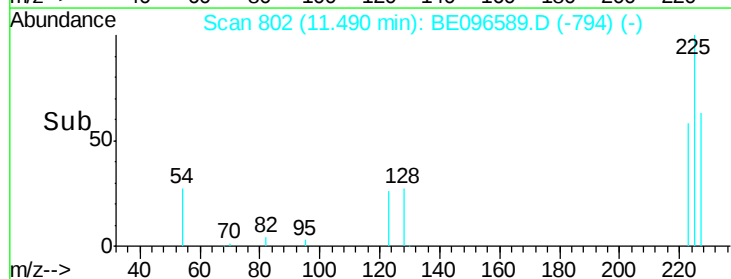
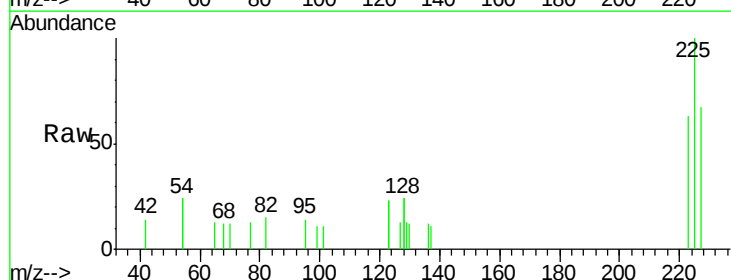
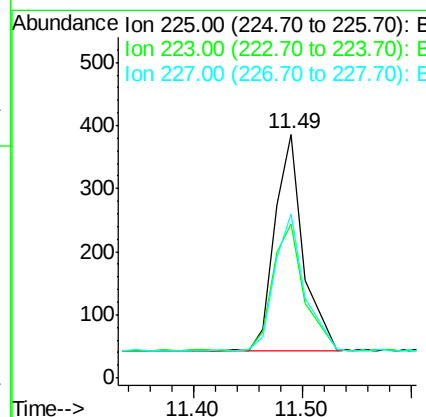
RT: 11.49 min Scan# 802

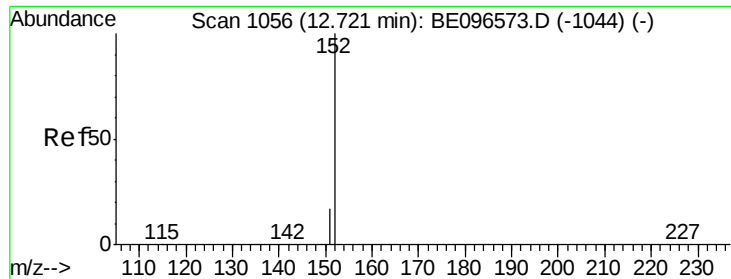
Delta R.T. 0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 604   |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 51.7  | 53.0  | 79.6# |
| 227       | 57.5  | 51.4  | 77.2  |





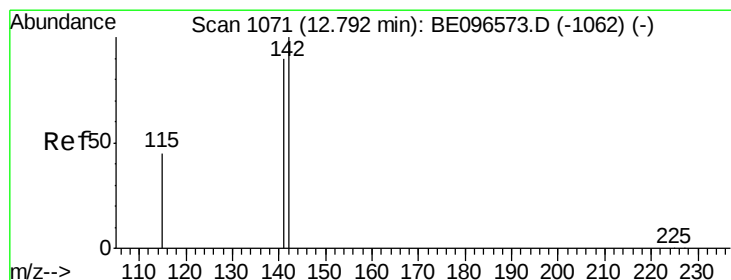
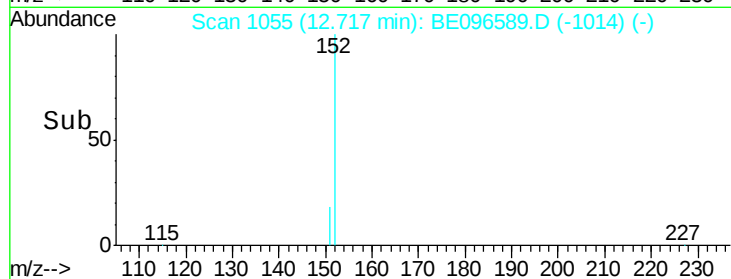
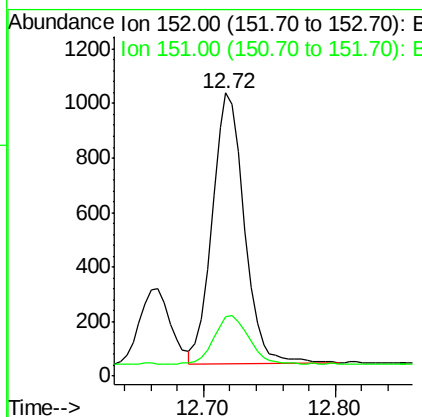
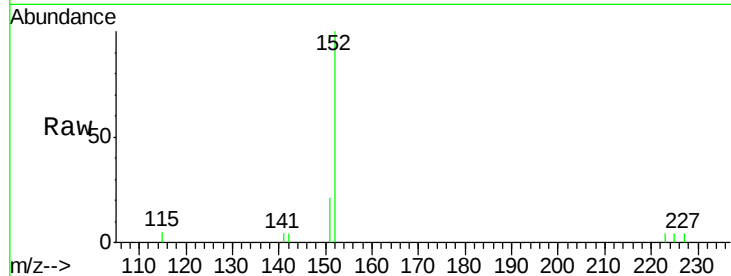
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.331 ng  
 RT: 12.72 min Scan# 1055  
 Delta R.T. -0.00 min  
 Lab File: BE096589.D  
 Acq: 16 May 2018 9:52

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB108420BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 15.4  | 23.0  |

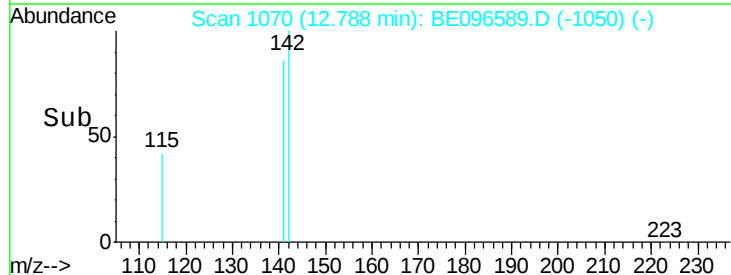
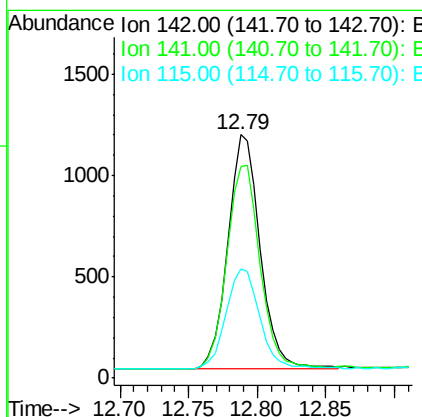
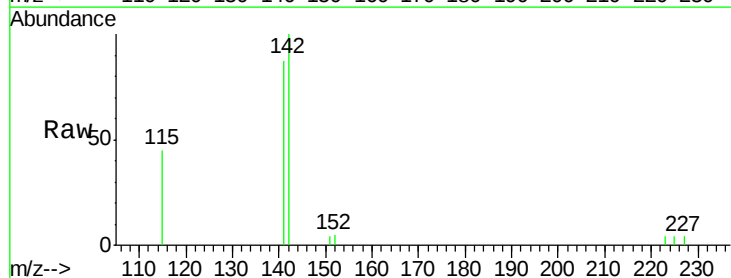
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#12  
 2-Methylnaphthalene  
 Concen: 0.343 ng  
 RT: 12.79 min Scan# 1070  
 Delta R.T. -0.00 min  
 Lab File: BE096589.D  
 Acq: 16 May 2018 9:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 86.9  | 70.4  | 105.6 |
| 115     | 44.7  | 31.7  | 47.5  |





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.92 min Scan# 1279

Delta R.T. 0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

Instrument :

BNA\_E

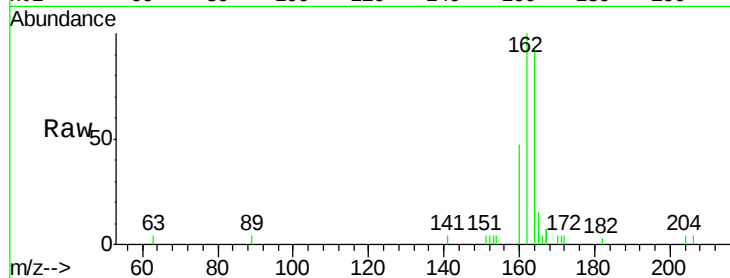
ClientSampleId :

PB108420BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 1587  |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 108.9 | 83.1  | 124.7 |
| 160       | 50.7  | 37.1  | 55.7  |

Manual Integrations  
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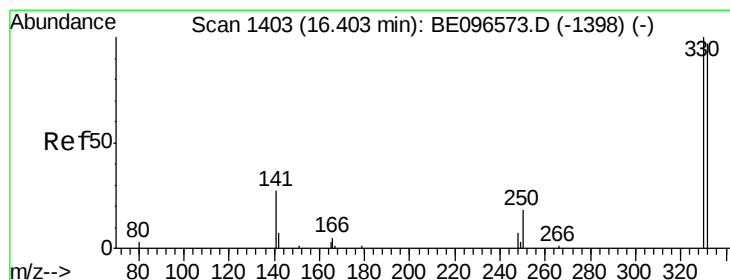
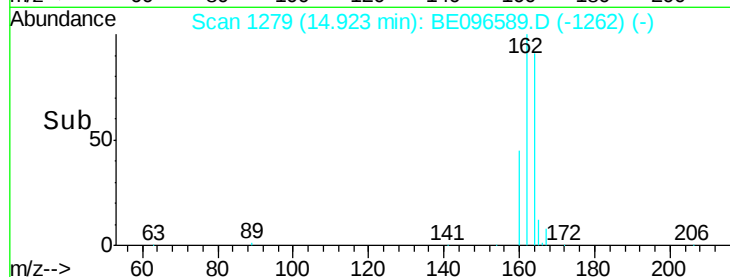
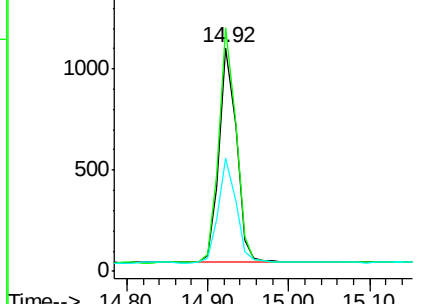
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.287 ng

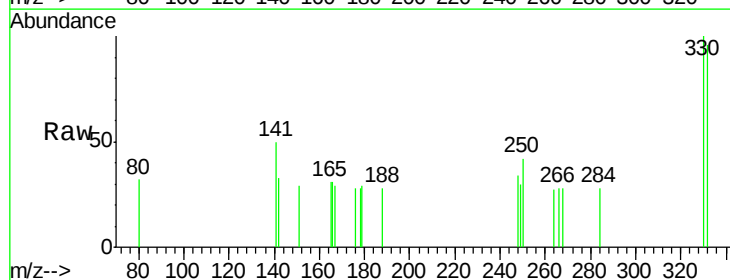
RT: 16.40 min Scan# 1403

Delta R.T. 0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

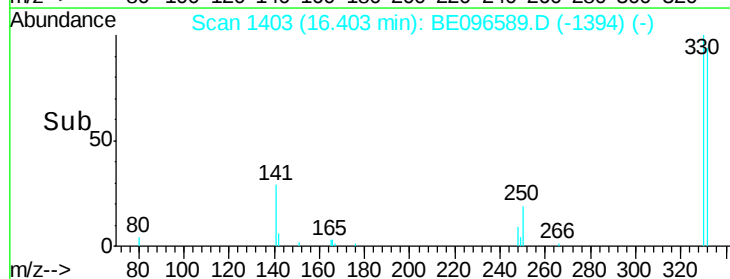
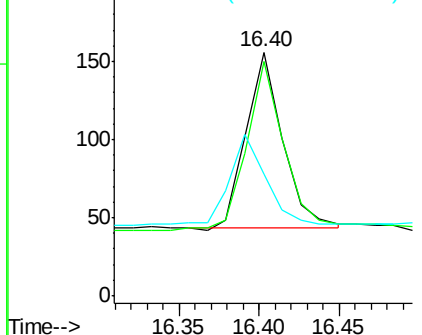
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 180    |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.2  | 152.7 | 229.1# |
| 141       | 52.2  | 33.7  | 50.5#  |

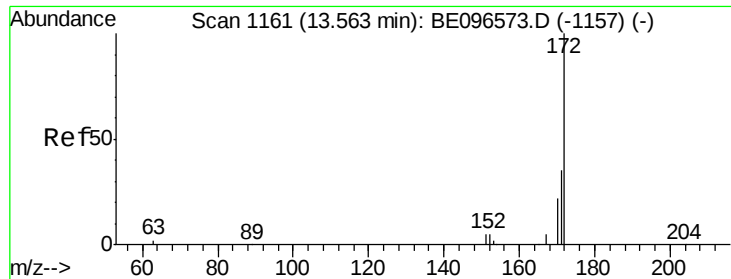


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





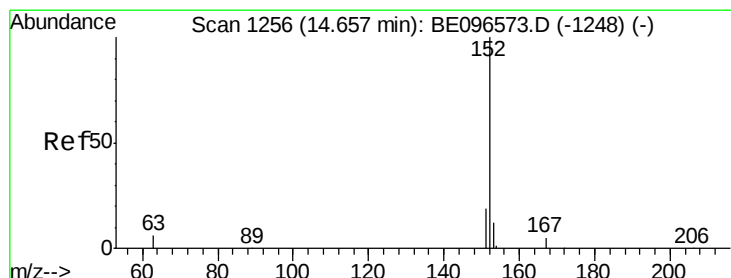
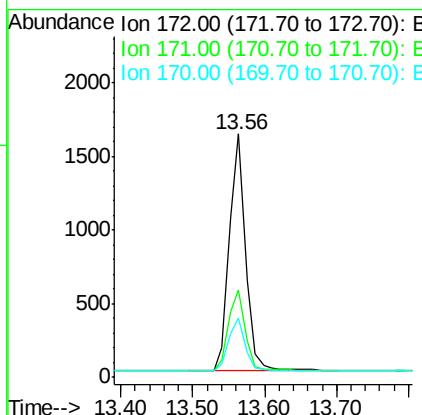
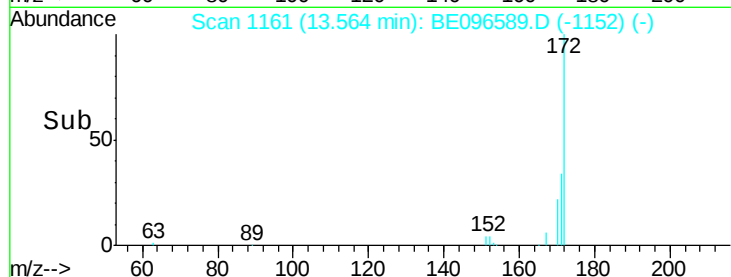
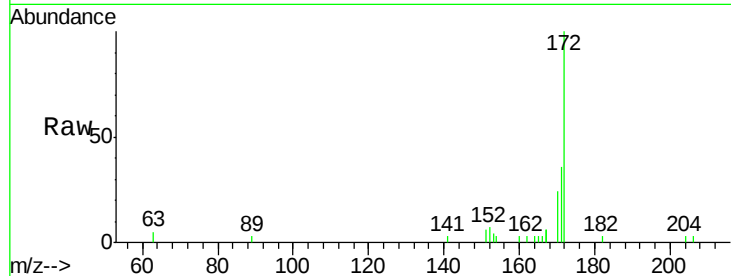
#15  
2-Fluorobiphenyl  
Concen: 0.372 ng  
RT: 13.56 min Scan# 1161  
Delta R.T. 0.00 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

Instrument :  
BNA\_E  
ClientSampleId :  
PB108420BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.9  | 44.9  |
| 170     | 24.4  | 21.8  | 32.8  |

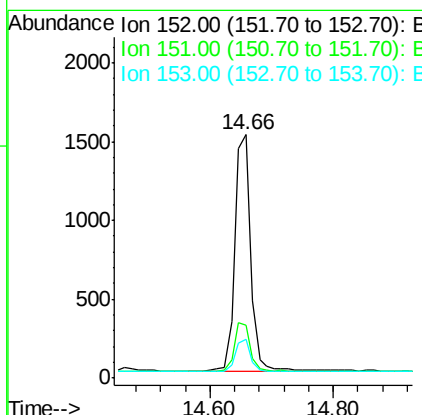
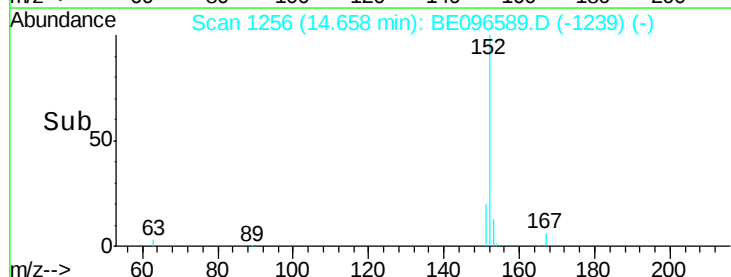
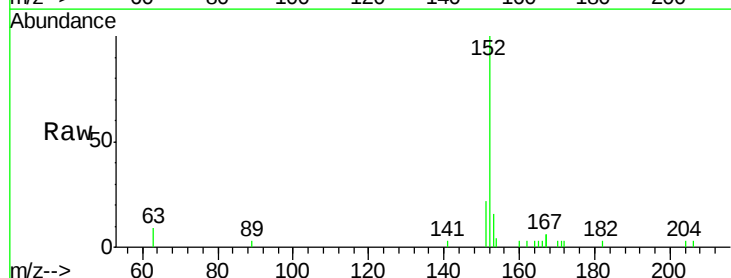
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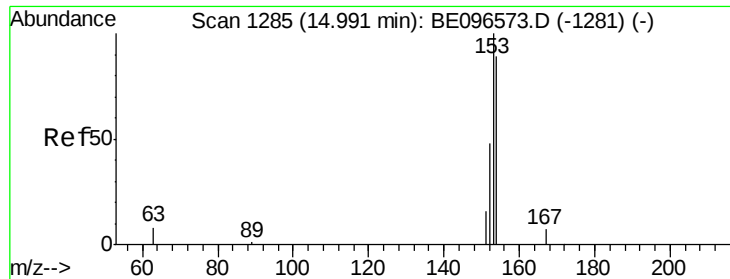
Sohil  
5/17/2018 5:05:48 PM



#16  
Acenaphthylene  
Concen: 0.326 ng  
RT: 14.66 min Scan# 1256  
Delta R.T. 0.00 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.5  | 15.7  | 23.5  |
| 153     | 12.6  | 10.5  | 15.7  |





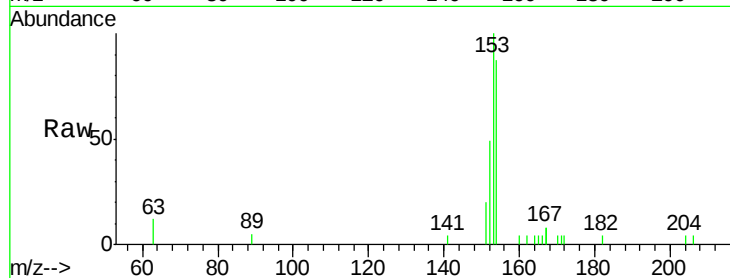
#17  
Acenaphthene  
Concen: 0.329 ng  
RT: 14.99 min Scan# 1285  
Delta R.T. 0.00 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

Instrument :  
BNA\_E  
ClientSampleId :  
PB108420BS

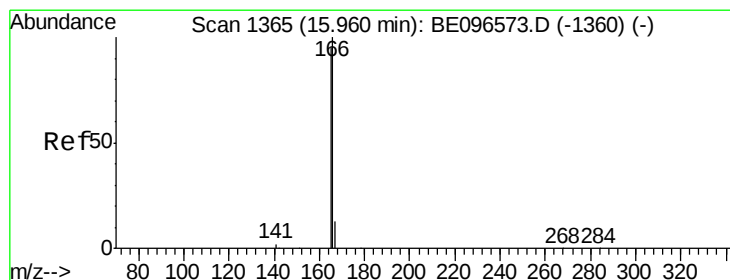
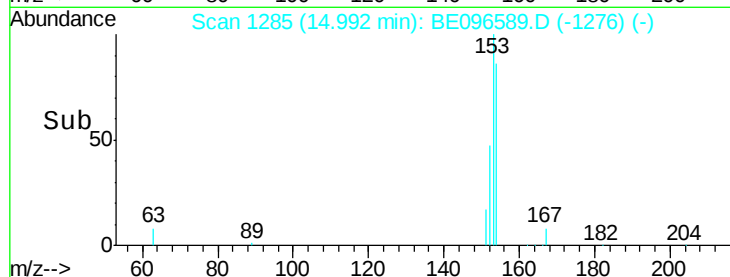
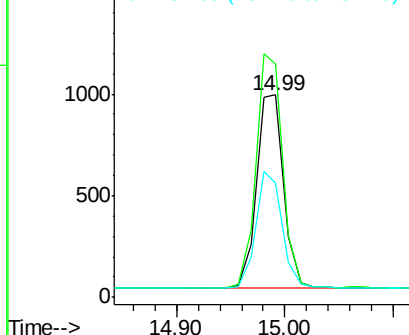
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 119.5 | 89.2  | 133.8 |
| 152     | 58.4  | 42.0  | 63.0  |

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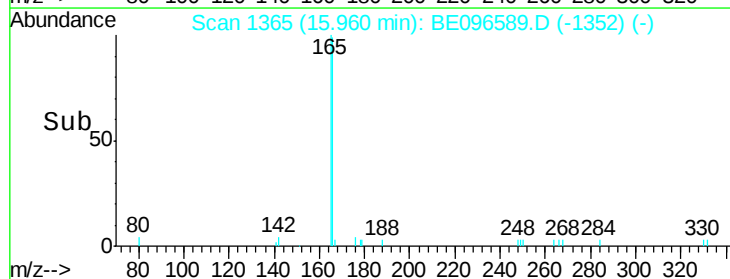
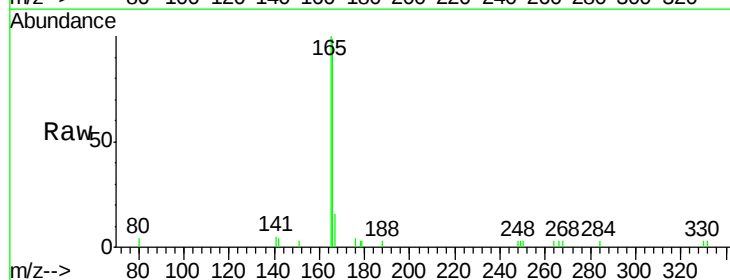
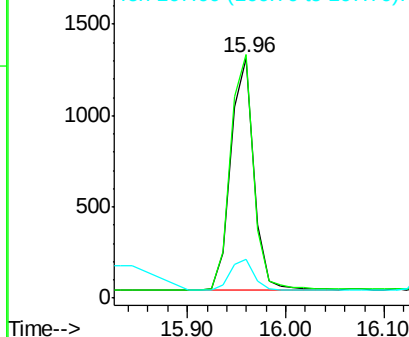
Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

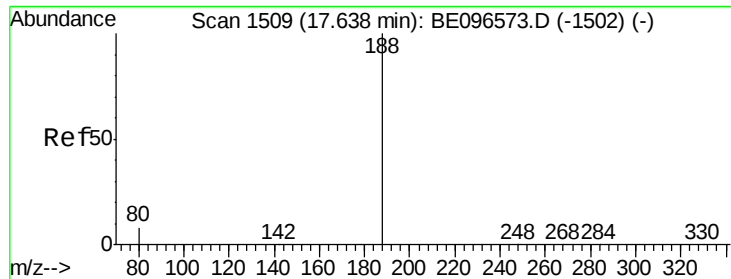


#18  
Fluorene  
Concen: 0.329 ng  
RT: 15.96 min Scan# 1365  
Delta R.T. -0.00 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 166     | 100   |       |        |
| 165     | 127.6 | 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: 17.64 min Scan# 1509

Delta R.T. -0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

Instrument :

BNA\_E

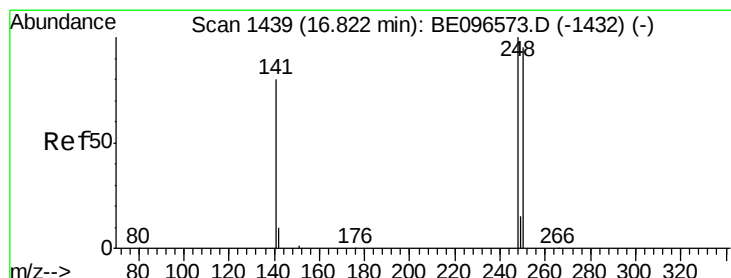
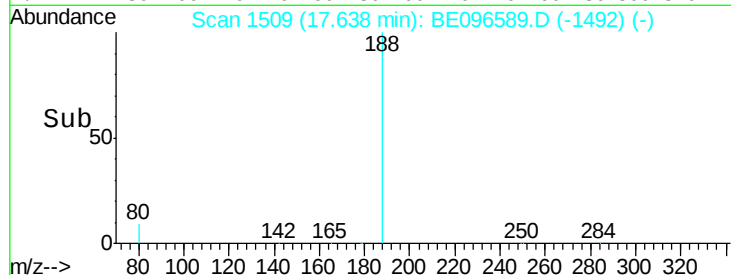
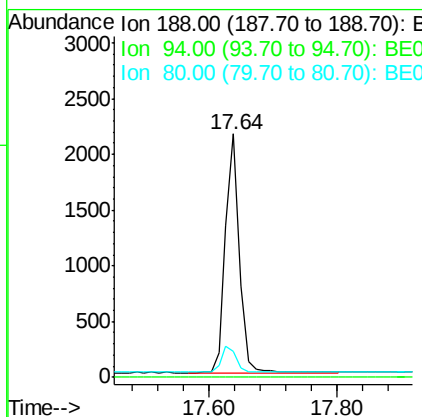
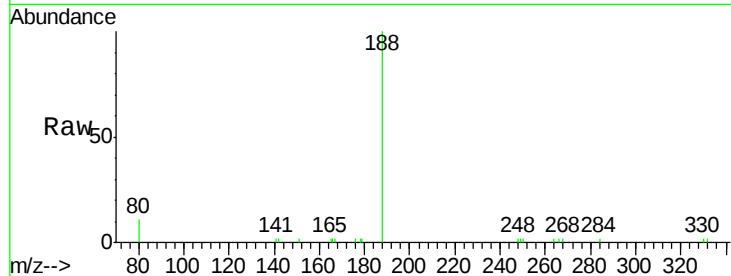
ClientSampleId :

PB108420BS

|     |       |      |       |       |
|-----|-------|------|-------|-------|
| Tgt | Ion   | 188  | Resp: | 3257  |
|     | Ratio | 100  | Lower | Upper |
|     |       |      |       |       |
|     | 94    | 0.0  | 3.9   | 5.9#  |
|     | 80    | 10.7 | 3.6   | 5.4#  |

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#20

4-Bromophenyl-phenylether

Concen: 0.322 ng

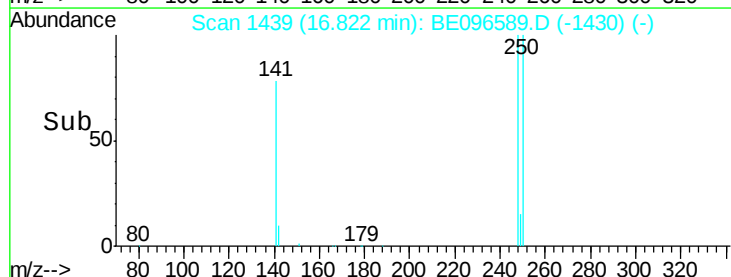
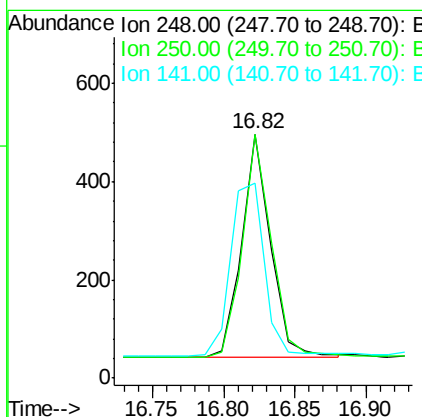
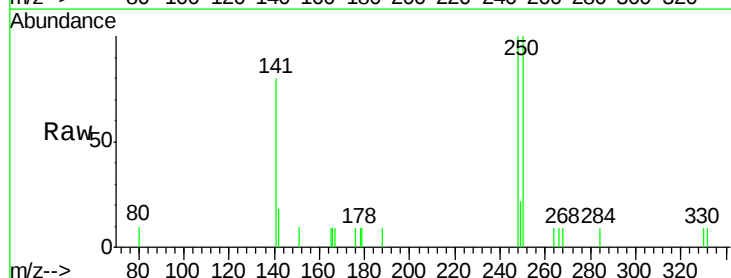
RT: 16.82 min Scan# 1439

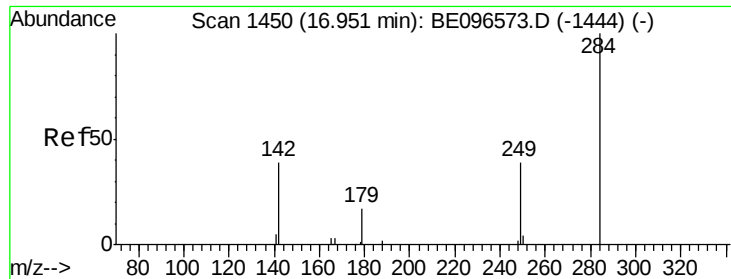
Delta R.T. -0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

|     |       |      |       |       |
|-----|-------|------|-------|-------|
| Tgt | Ion   | 248  | Resp: | 636   |
|     | Ratio | 100  | Lower | Upper |
|     |       |      |       |       |
|     | 250   | 99.8 | 62.7  | 94.1# |
|     | 141   | 80.0 | 48.2  | 72.2# |





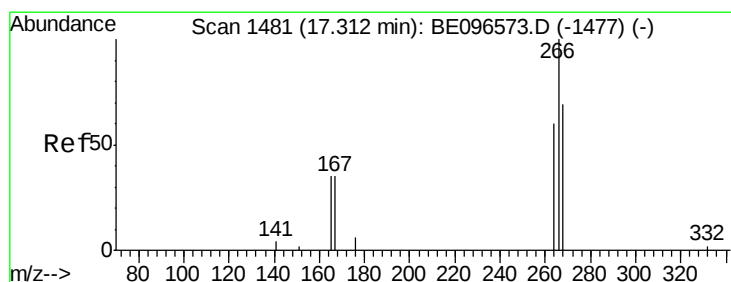
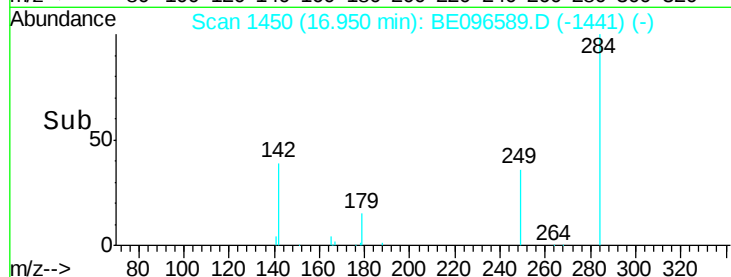
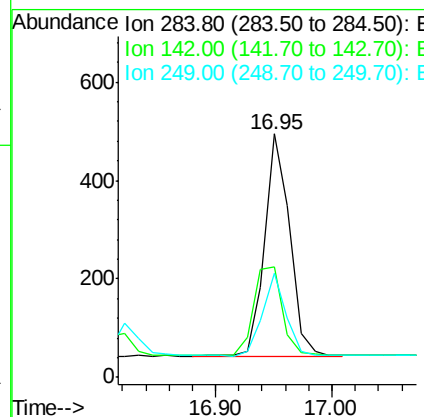
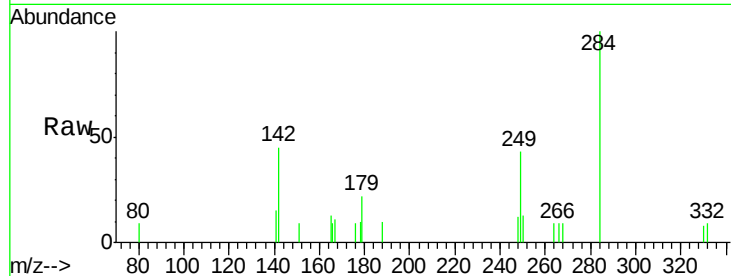
#21  
Hexachlorobenzene  
Concen: 0.330 ng  
RT: 16.95 min Scan# 1450  
Delta R.T. -0.00 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

Instrument :  
BNA\_E  
ClientSampleId :  
PB108420BS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 284     | 100   |            |            |
| 142     | 45.9  | 22.1       | 33.1#      |
| 249     | 34.6  | 34.8       | 52.2#      |

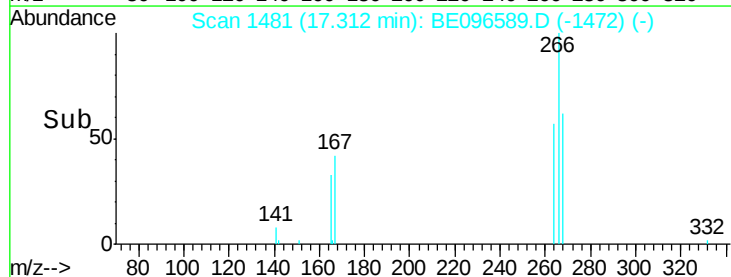
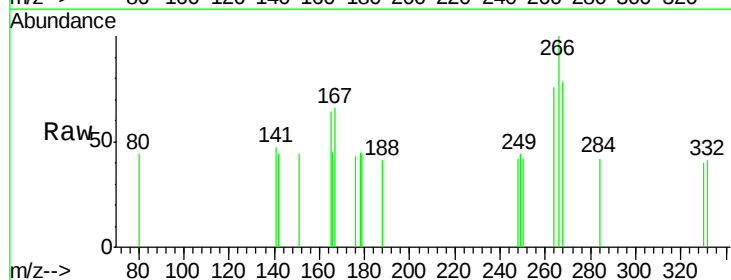
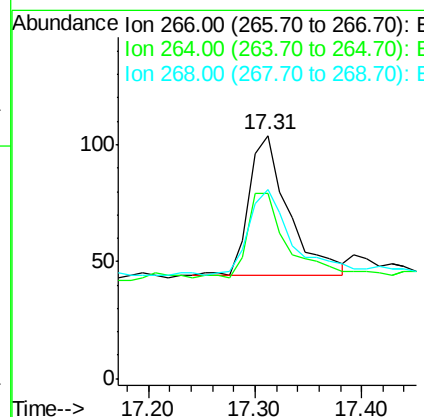
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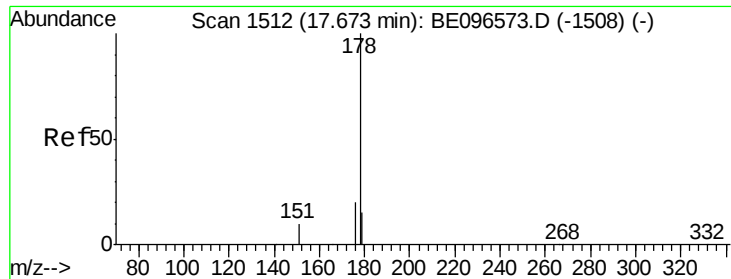
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#22  
Pentachlorophenol  
Concen: 0.416 ng  
RT: 17.31 min Scan# 1481  
Delta R.T. 0.00 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 266     | 100   |            |            |
| 264     | 76.0  | 72.5       | 108.7      |
| 268     | 77.9  | 73.8       | 110.6      |





#23

Phenanthrene

Concen: 0.351 ng

RT: 17.67 min Scan# 1512

Delta R.T. -0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

Instrument :

BNA\_E

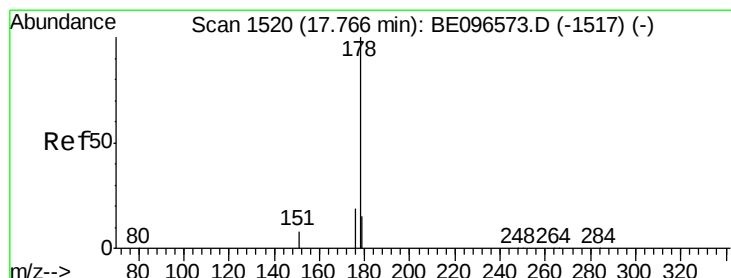
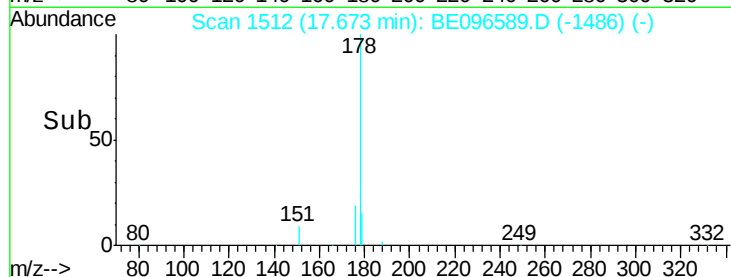
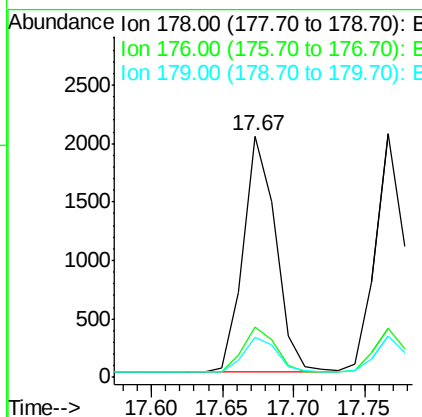
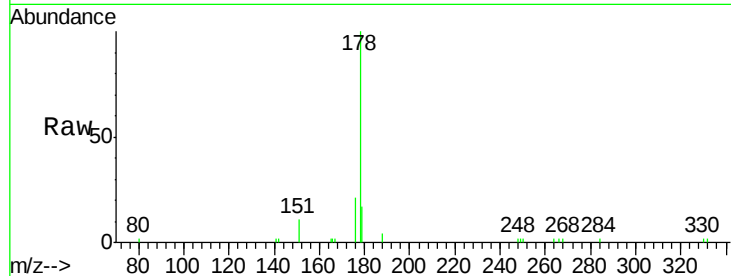
ClientSampleId :

PB108420BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 3208 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 19.7  | 15.1  | 22.7 |
| 179       | 14.9  | 11.8  | 17.6 |

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#24

Anthracene

Concen: 0.352 ng

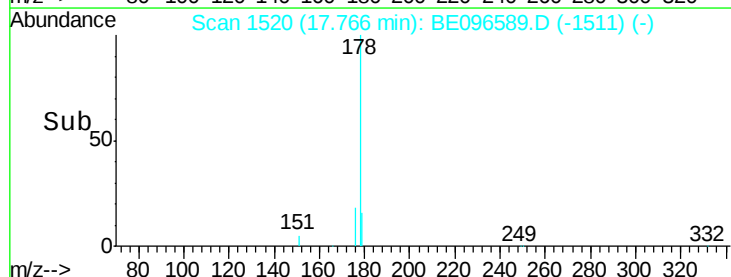
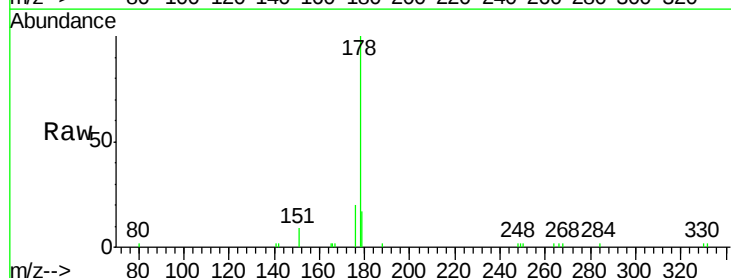
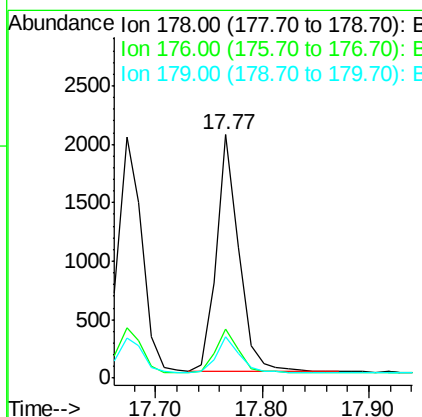
RT: 17.77 min Scan# 1520

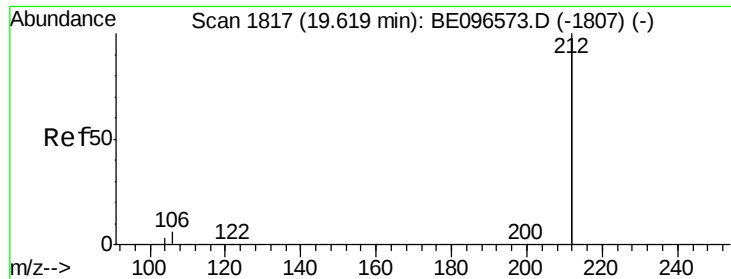
Delta R.T. -0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 2998 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 19.1  | 12.8  | 19.2 |
| 179       | 14.8  | 13.0  | 19.6 |





#25

Fluoranthene-d10

Concen: 0.349 ng

RT: 19.62 min Scan# 1817

Delta R.T. -0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

Instrument :

BNA\_E

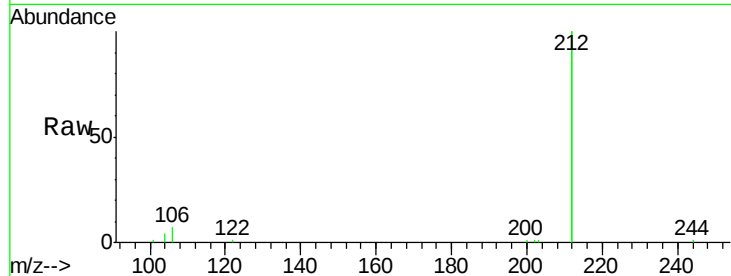
ClientSampled :

PB108420BS

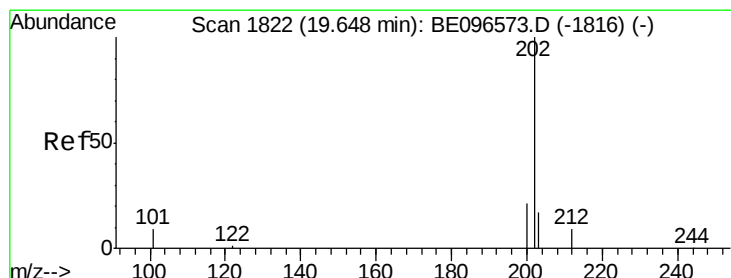
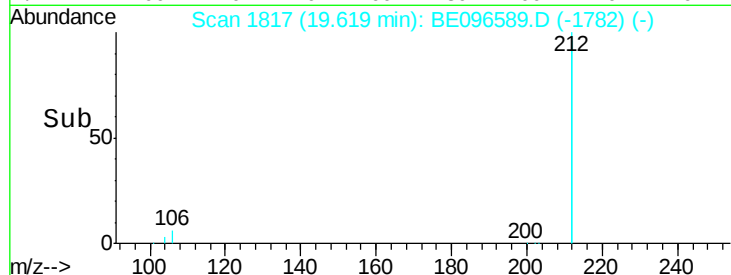
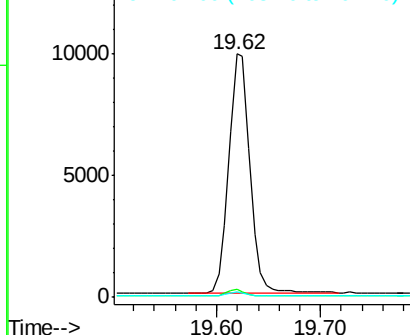
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 212   | Resp: | 13886 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 2.8   | 2.8   | 4.2#  |
| 104       | 1.6   | 1.6   | 2.4   |

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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: 0.355 ng

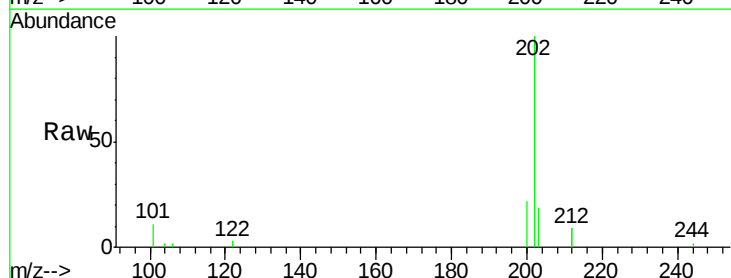
RT: 19.65 min Scan# 1822

Delta R.T. -0.00 min

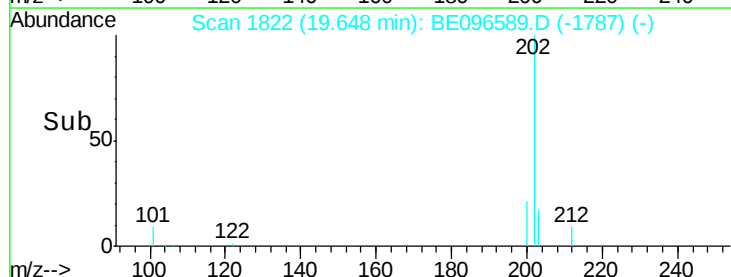
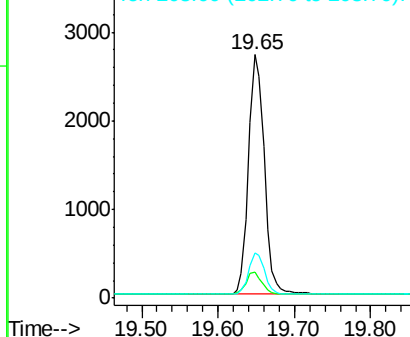
Lab File: BE096589.D

Acq: 16 May 2018 9:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 3880  |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.6   | 9.8   | 14.8# |
| 203       | 17.1  | 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: 21.73 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

Instrument :

BNA\_E

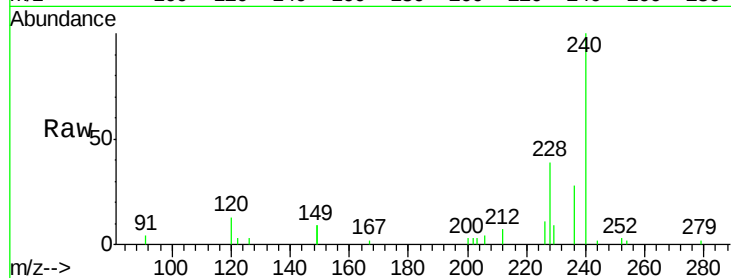
ClientSampleId :

PB108420BS

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 240     | 100   | 3454 |       |       |
| 120     | 12.6  | 5.5  | 8.3#  |       |
| 236     | 28.5  | 20.7 | 31.1  |       |

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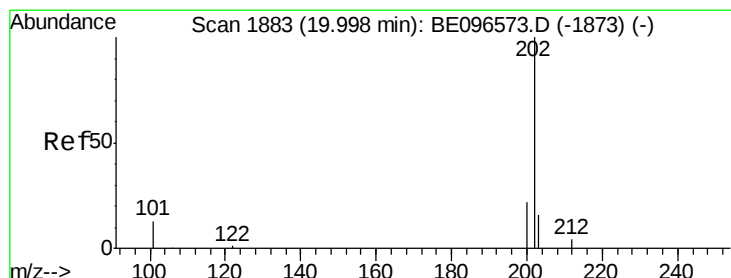
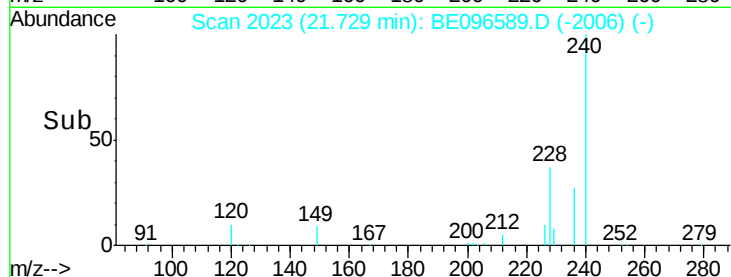
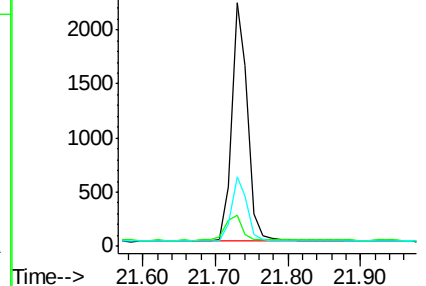
Sohil  
5/17/2018 5:05:48 PM



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: 0.294 ng

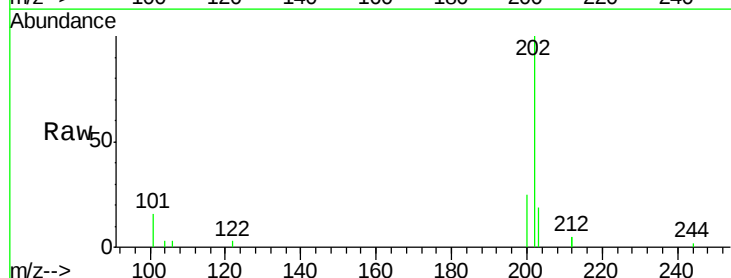
RT: 20.00 min Scan# 1883

Delta R.T. -0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

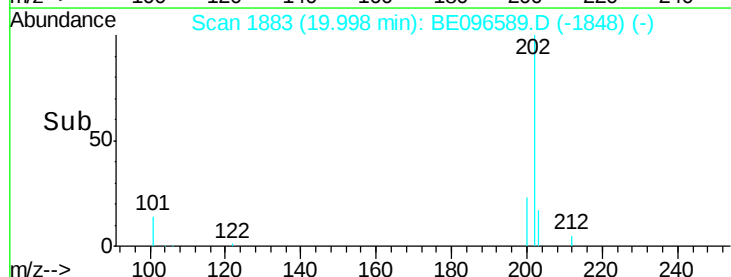
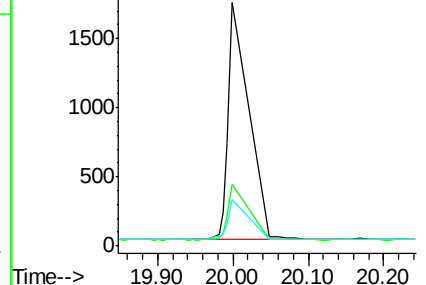
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   | 1835 |       |       |
| 200     | 23.8  | 16.6 | 25.0  |       |
| 203     | 18.2  | 13.8 | 20.8  |       |



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: 0.332 ng

RT: 20.18 min Scan# 1895

Delta R.T. 0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

Instrument :

BNA\_E

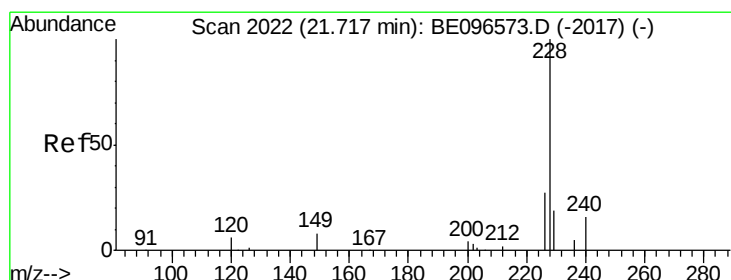
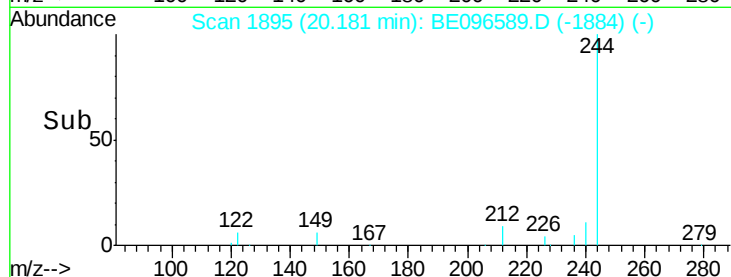
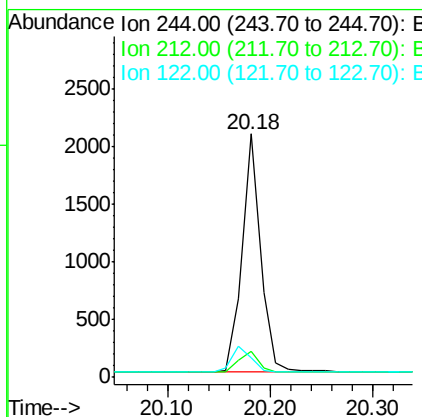
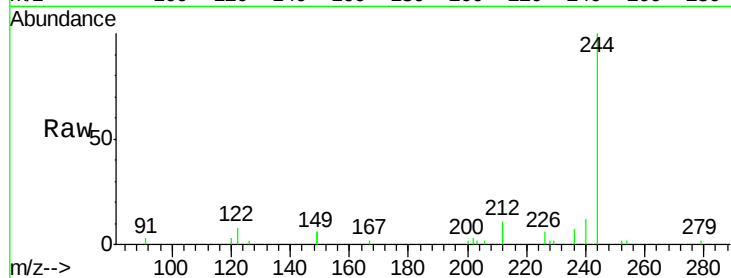
ClientSampled :

PB108420BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.6  | 25.4  | 38.0# |
| 122     | 8.3   | 8.1   | 12.1  |

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#30

Benzo(a)anthracene

Concen: 0.361 ng

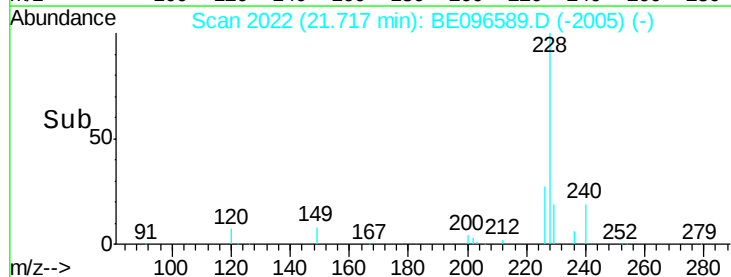
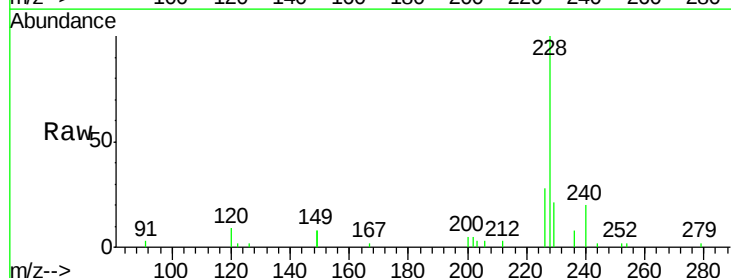
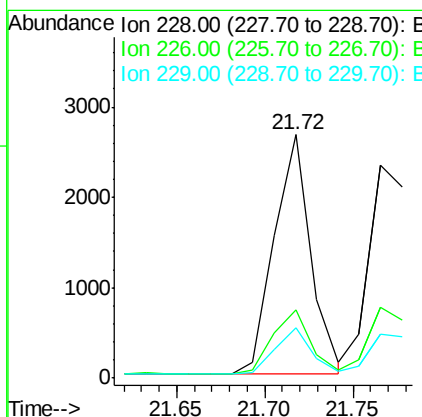
RT: 21.72 min Scan# 2022

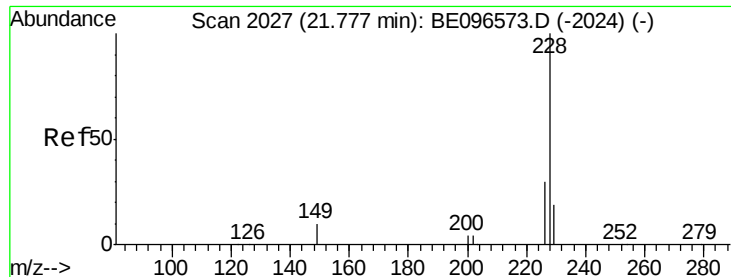
Delta R.T. 0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.2  | 24.0  | 36.0  |
| 229     | 20.8  | 16.0  | 24.0  |





#31

Chrysene

Concen: 0.346 ng

RT: 21.77 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

Instrument :

BNA\_E

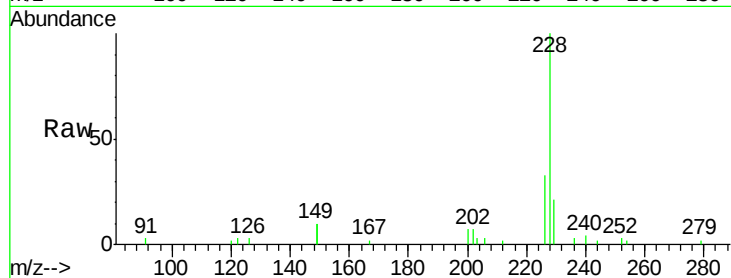
ClientSampleId :

PB108420BS

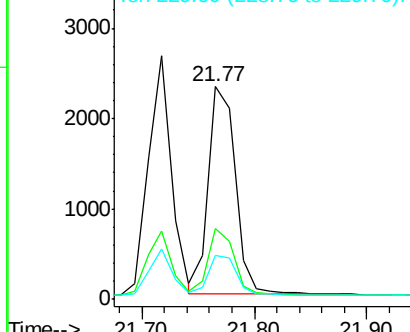
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 3826 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 33.3  | 24.0  | 36.0 |
| 229       | 20.7  | 16.0  | 24.0 |

Manual Integrations  
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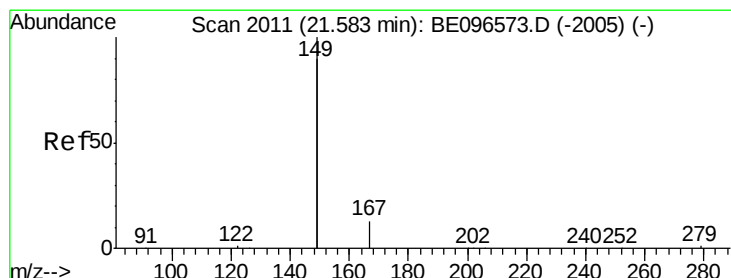
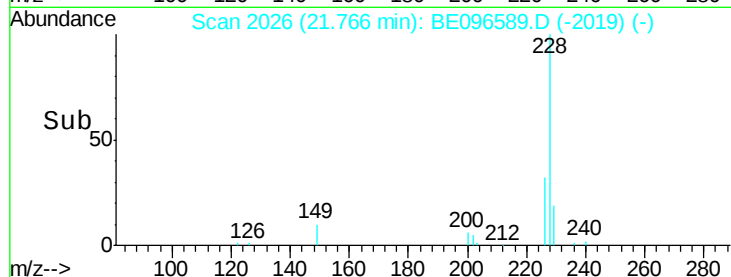
Sohil  
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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



Time-->



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.310 ng

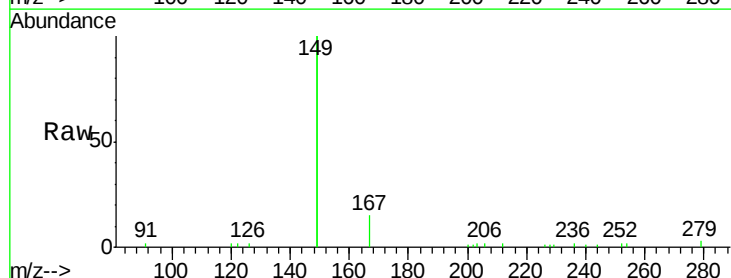
RT: 21.58 min Scan# 2011

Delta R.T. 0.00 min

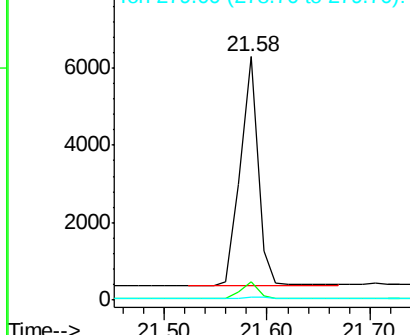
Lab File: BE096589.D

Acq: 16 May 2018 9:52

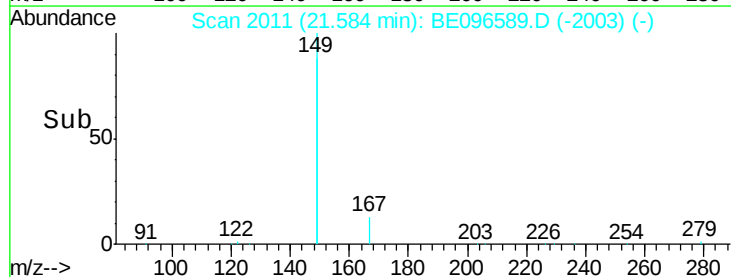
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 7055 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 7.1   | 5.4   | 8.0  |
| 279       | 1.1   | 0.7   | 1.1# |



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



Time-->





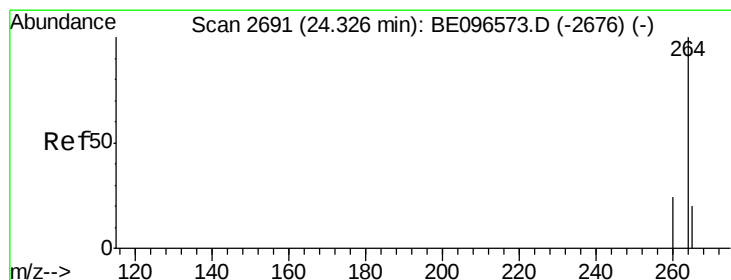
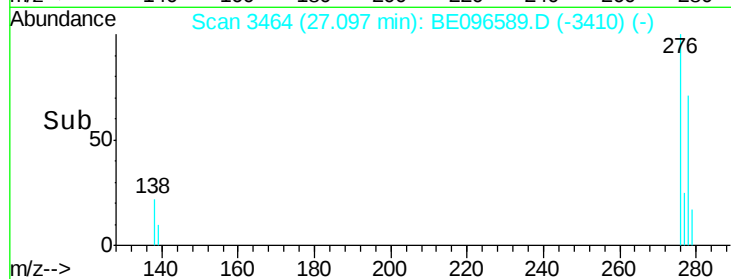
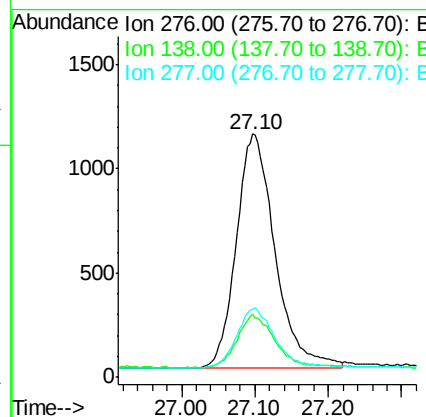
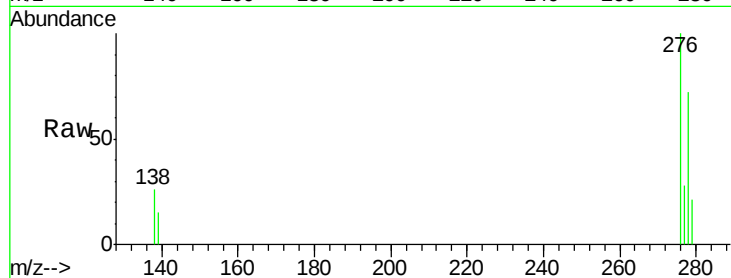
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.388 ng  
RT: 27.10 min Scan# 3464  
Delta R.T. -0.01 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

Instrument :  
BNA\_E  
ClientSampleId :  
PB108420BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.7  | 22.5  | 33.7# |
| 277     | 24.7  | 19.9  | 29.9  |

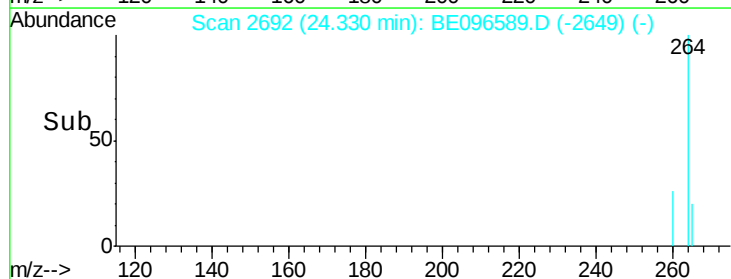
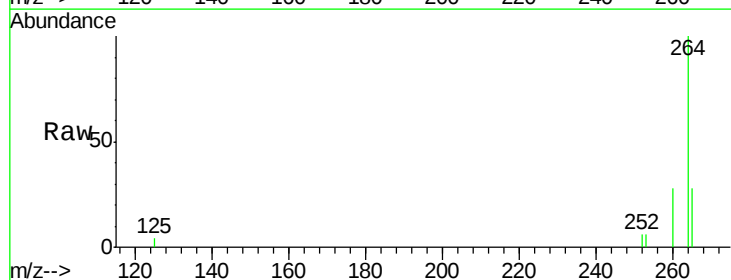
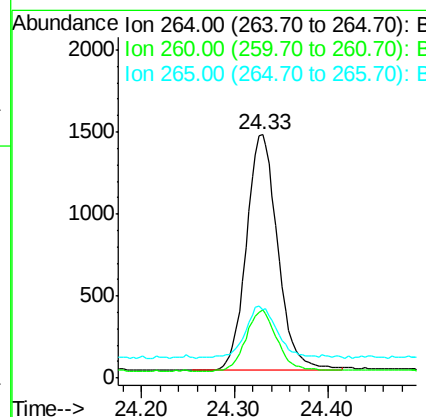
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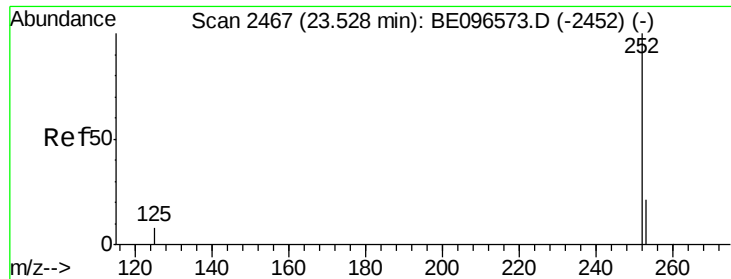
Sohil  
5/17/2018 5:05:48 PM



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 24.33 min Scan# 2692  
Delta R.T. 0.00 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 27.8  | 20.5  | 30.7  |
| 265     | 28.2  | 22.8  | 34.2  |





#35

Benzo(b)fluoranthene

Concen: 0.365 ng

RT: 23.52 min Scan# 2466

Delta R.T. -0.00 min

Lab File: BE096589.D

Acq: 16 May 2018 9:52

Instrument :

BNA\_E

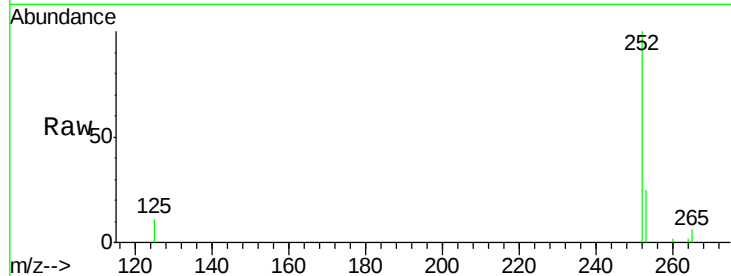
ClientSampleId :

PB108420BS

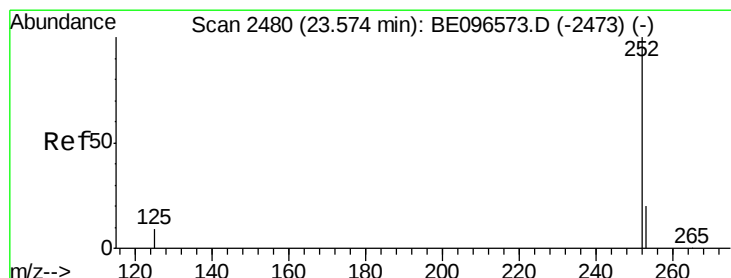
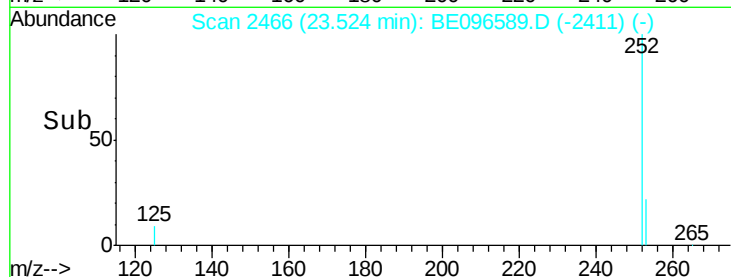
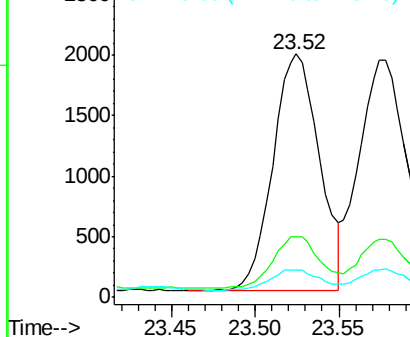
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 3792  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.1  | 20.0  | 30.0  |
| 125       | 11.4  | 16.0  | 24.0# |

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5/17/2018 5:05:48 PM



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: 0.342 ng

RT: 23.58 min Scan# 2481

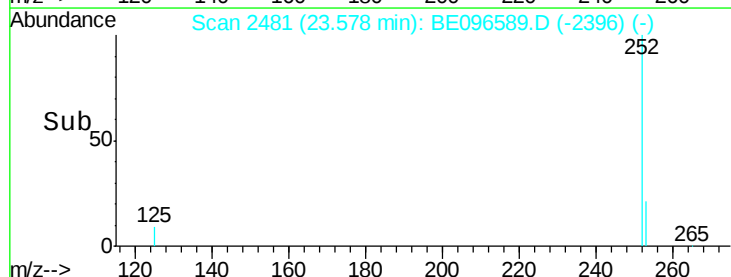
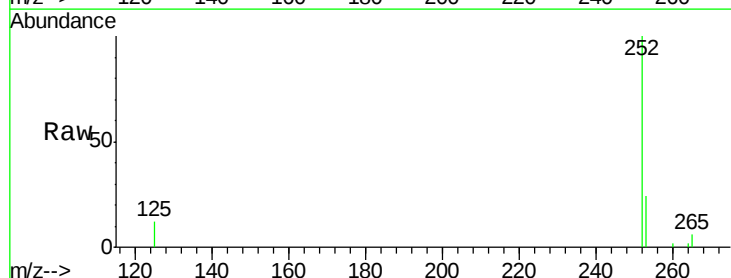
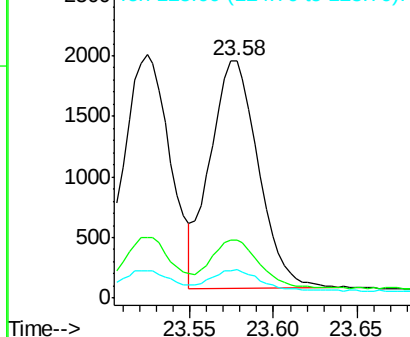
Delta R.T. 0.00 min

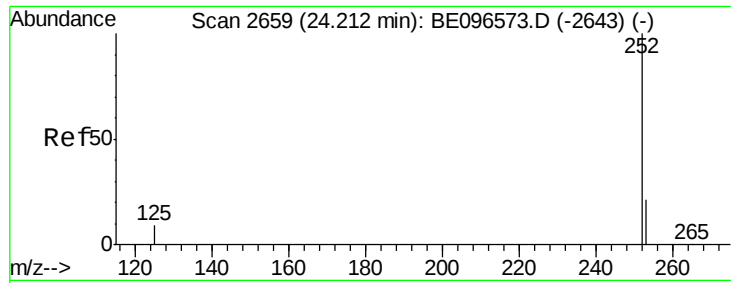
Lab File: BE096589.D

Acq: 16 May 2018 9:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 3764  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.4  | 16.0  | 24.0# |
| 125       | 12.1  | 8.0   | 12.0# |

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





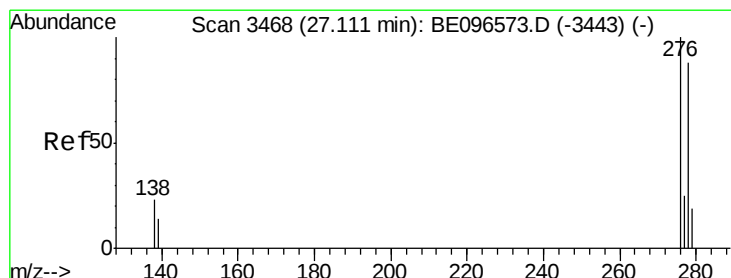
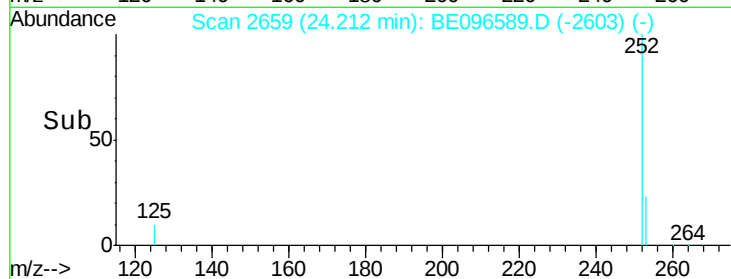
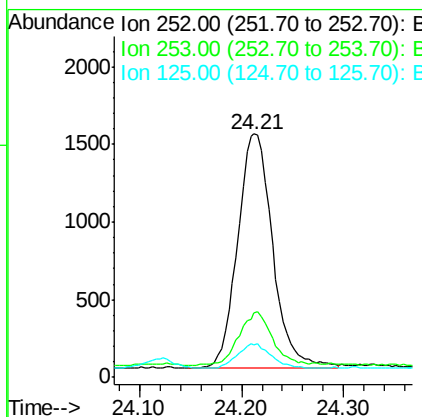
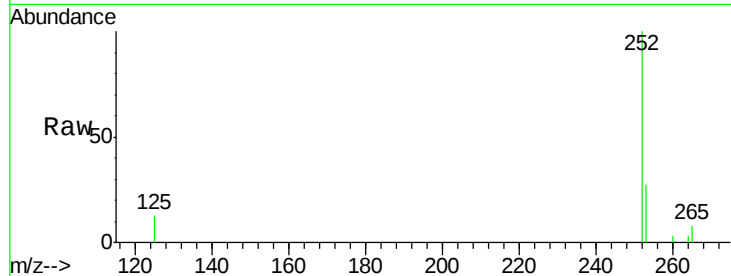
#37  
Benzo(a)pyrene  
Concen: 0.364 ng  
RT: 24.21 min Scan# 2659  
Delta R.T. 0.00 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

Instrument :  
BNA\_E  
ClientSampleId :  
PB108420BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.7  | 16.0  | 24.0# |
| 125     | 13.4  | 12.0  | 18.0  |

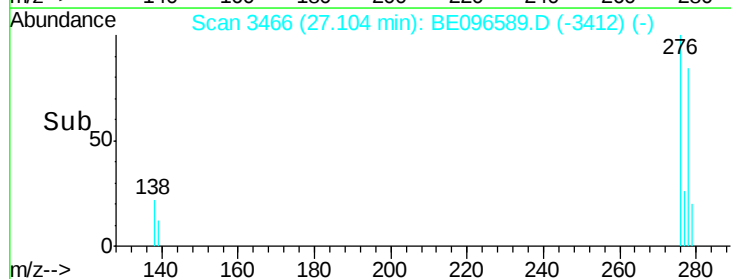
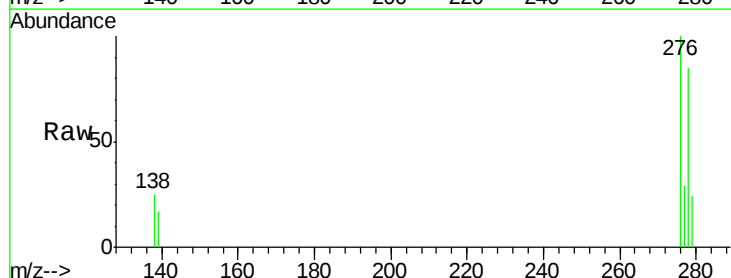
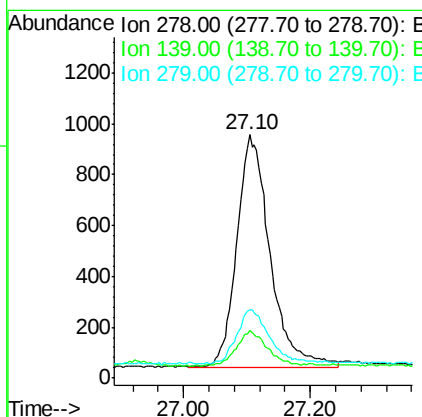
Manual Integrations  
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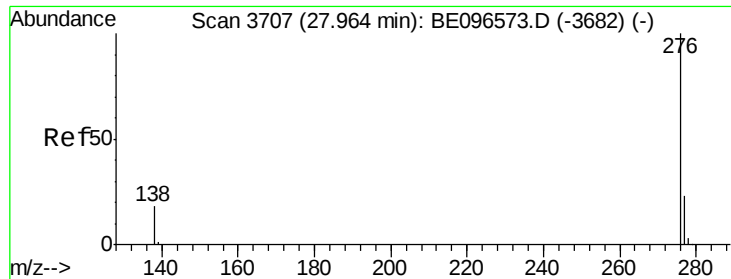
Sohil  
5/17/2018 5:05:48 PM



#38  
Dibenzo(a,h)anthracene  
Concen: 0.365 ng  
RT: 27.10 min Scan# 3466  
Delta R.T. -0.01 min  
Lab File: BE096589.D  
Acq: 16 May 2018 9:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 19.8  | 16.0  | 24.0  |
| 279     | 27.8  | 20.0  | 30.0  |





#39

Benzo(g,h,i)perylene

Concen: 0.365 ng

RT: 27.96 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE096589.D

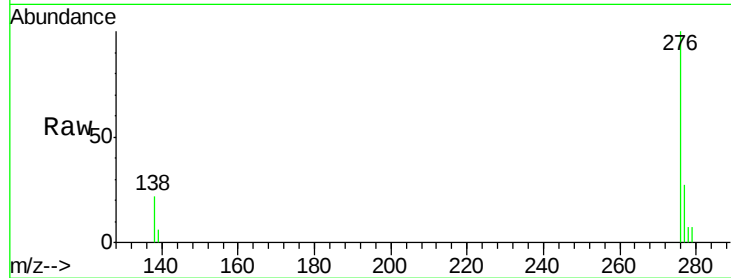
Acq: 16 May 2018 9:52

Instrument :

BNA\_E

ClientSampleId :

PB108420BS



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 3470  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 27.1  | 16.0  | 24.0# |
| 138       | 21.9  | 20.0  | 30.0  |

Manual Integrations  
APPROVED

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