

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE051619\  
 Data File : BE099621.D  
 Acq On : 16 May 2019 13:16  
 Operator : JU/SJ  
 Sample : PB119274BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB119274BS

Manual Integrations  
 APPROVED

mohammad  
 5/17/2019 2:25:06 PM

Quant Time: May 17 12:32:15 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE051419.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue May 14 19:30:50 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 1909     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.63 | 136  | 6471     | 0.40 | ng    | 0.01     |
| 13) Acenaphthene-d10      | 14.49 | 164  | 4133     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.23 | 188  | 12493    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.43 | 240  | 17014    | 0.40 | ng    | 0.01     |
| 34) Perylene-d12          | 23.97 | 264  | 20008    | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| 4) 2-Fluorophenol           | 5.38  | 112 | 1667  | 0.31 | ng | 0.00 |
| 5) Phenol-d6                | 6.98  | 99  | 2247  | 0.33 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.98  | 82  | 1905  | 0.30 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152 | 3872m | 0.36 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.98 | 330 | 683   | 0.24 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.12 | 172 | 5459  | 0.34 | ng | 0.02 |
| 25) Fluoranthene-d10        | 19.27 | 212 | 56807 | 0.34 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.87 | 244 | 11906 | 0.39 | ng | 0.00 |

#### Target Compounds

|                                |       |     |       |       |    | Qvalue |
|--------------------------------|-------|-----|-------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.29  | 88  | 956   | 0.340 | ng | # 25   |
| 3) n-Nitrosodimethylamine      | 3.62  | 42  | 603   | 0.336 | ng | # 91   |
| 6) bis(2-Chloroethyl)ether     | 7.24  | 93  | 1967  | 0.340 | ng | 96     |
| 9) Naphthalene                 | 10.67 | 128 | 23998 | 0.349 | ng | 99     |
| 10) Hexachlorobutadiene        | 10.95 | 225 | 1726  | 0.343 | ng | 100    |
| 12) 2-Methylnaphthalene        | 12.30 | 142 | 3863  | 0.340 | ng | 96     |
| 16) Acenaphthylene             | 14.21 | 152 | 6437  | 0.330 | ng | 99     |
| 17) Acenaphthene               | 14.56 | 154 | 3686  | 0.335 | ng | 98     |
| 18) Fluorene                   | 15.53 | 166 | 5478  | 0.347 | ng | 100    |
| 20) 4-Bromophenyl-phenylether  | 16.43 | 248 | 2369  | 0.329 | ng | # 93   |
| 21) Hexachlorobenzene          | 16.53 | 284 | 2416  | 0.341 | ng | 97     |
| 22) Pentachlorophenol          | 16.93 | 266 | 382m  | 0.368 | ng |        |
| 23) Phenanthrene               | 17.28 | 178 | 10577 | 0.341 | ng | 100    |
| 24) Anthracene                 | 17.36 | 178 | 9073  | 0.317 | ng | 99     |
| 26) Fluoranthene               | 19.30 | 202 | 16802 | 0.358 | ng | 99     |
| 28) Pyrene                     | 19.66 | 202 | 17120 | 0.395 | ng | 99     |
| 30) Benzo(a)anthracene         | 21.40 | 228 | 20476 | 0.398 | ng | 100    |
| 31) Chrysene                   | 21.46 | 228 | 19119 | 0.361 | ng | 100    |
| 32) Bis(2-ethylhexyl)phthalate | 21.32 | 149 | 25226 | 0.318 | ng | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.66 | 276 | 25119 | 0.381 | ng | 99     |
| 35) Benzo(b)fluoranthene       | 23.18 | 252 | 19697 | 0.352 | ng | 97     |
| 36) Benzo(k)fluoranthene       | 23.23 | 252 | 21813 | 0.395 | ng | 98     |
| 37) Benzo(a)pyrene             | 23.85 | 252 | 20092 | 0.371 | ng | # 95   |
| 38) Dibenzo(a,h)anthracene     | 26.69 | 278 | 20852 | 0.371 | ng | 100    |
| 39) Benzo(g,h,i)perylene       | 27.49 | 276 | 21503 | 0.381 | ng | 99     |

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

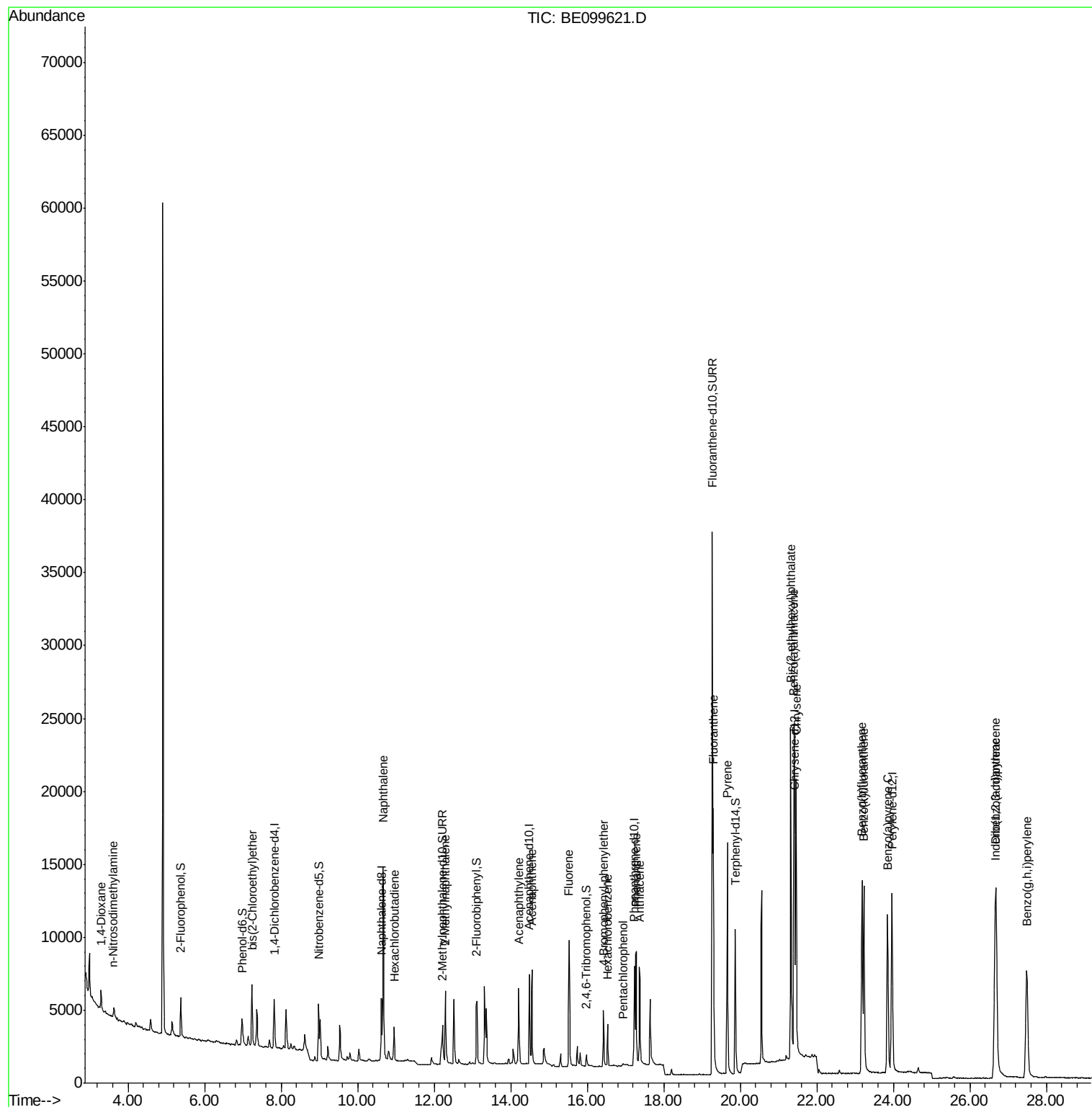
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE051619\  
Data File : BE099621.D  
Acq On : 16 May 2019 13:16  
Operator : JU/SJ  
Sample : PB119274BS  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

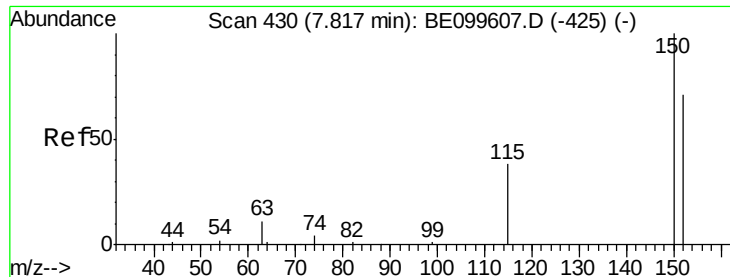
Instrument :  
BNA\_E  
ClientSampleId :  
PB119274BS

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Quant Time: May 17 12:32:15 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE051419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 14 19:30:50 2019  
Response via : Initial Calibration





#1

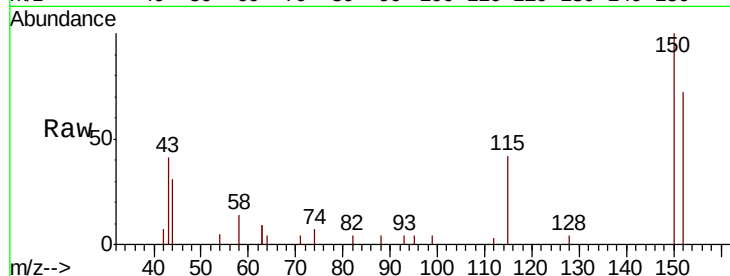
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.82 min Scan# 430  
 Delta R.T. 0.00 min  
 Lab File: BE099621.D  
 Acq: 16 May 2019 13:16

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB119274BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 139.2 | 110.1 | 165.1 |
| 115     | 58.9  | 46.2  | 69.4  |

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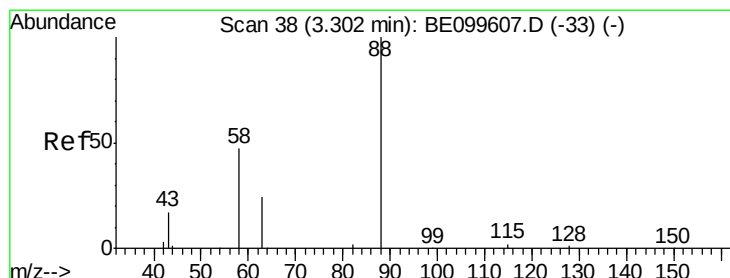
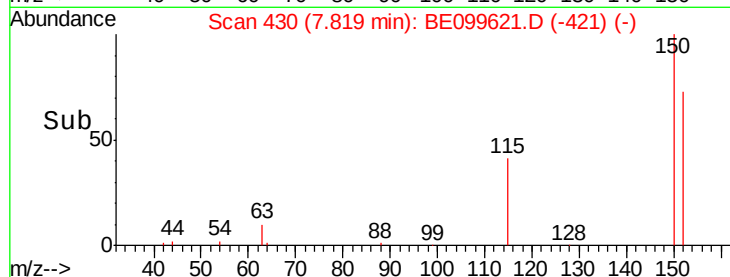
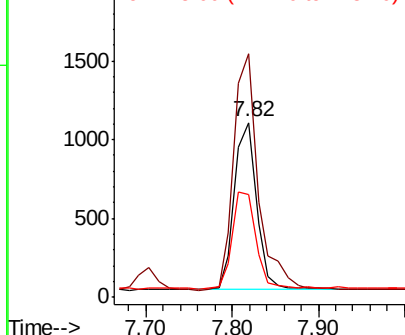


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

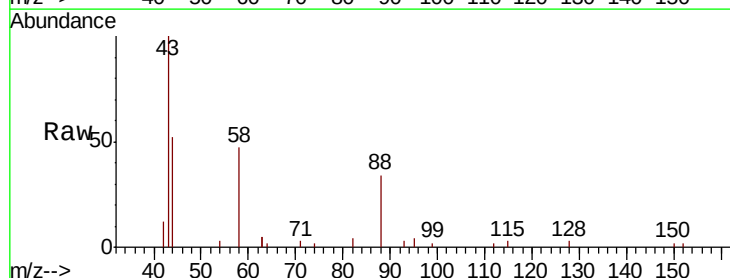
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane  
 Concen: 0.340 ng  
 RT: 3.29 min Scan# 37  
 Delta R.T. -0.01 min  
 Lab File: BE099621.D  
 Acq: 16 May 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 69.6  | 39.8  | 59.6# |
| 43      | 110.0 | 21.0  | 31.6# |

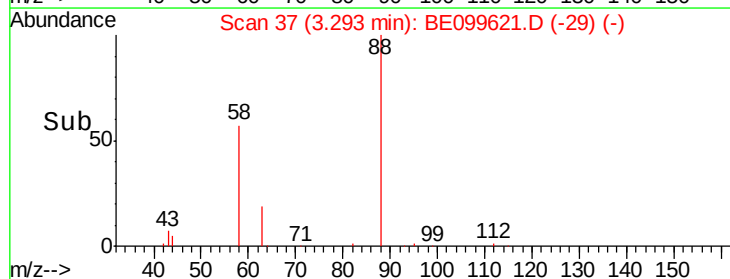
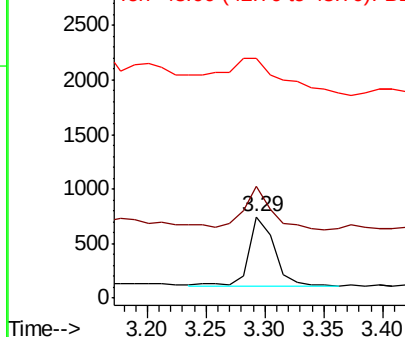


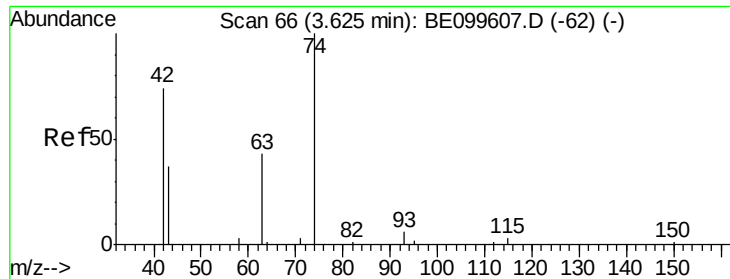
Abundance

Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

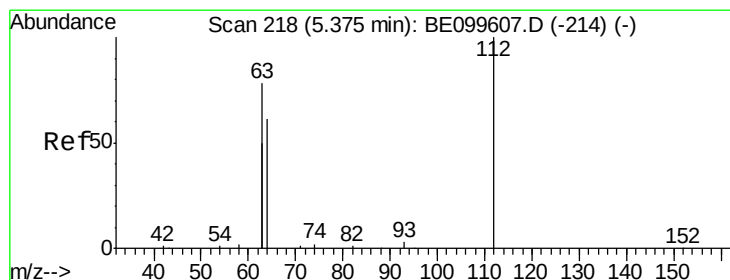
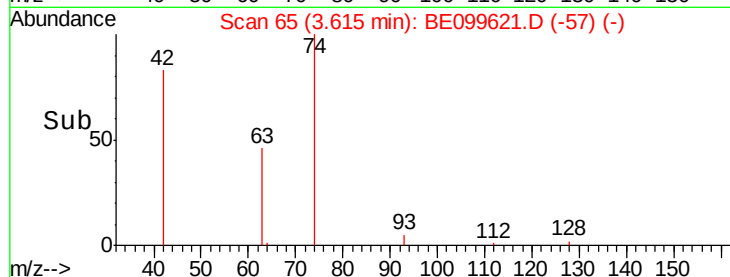
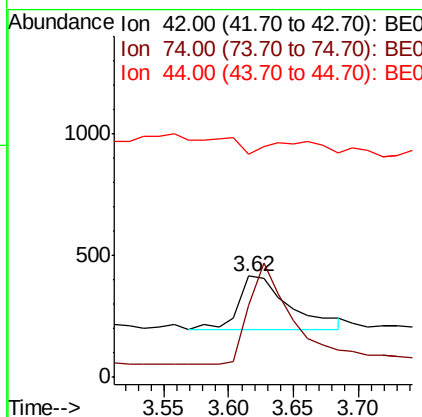
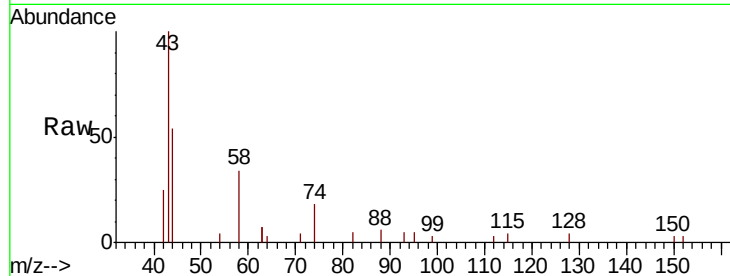
n-Nitrosodimethylamine  
Concen: 0.336 ng  
RT: 3.62 min Scan# 65  
Delta R.T. -0.01 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

Instrument :  
BNA\_E  
ClientSampled :  
PB119274BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 159.2 | 134.7 | 202.1 |
| 44      | 0.0   | 12.5  | 18.7# |

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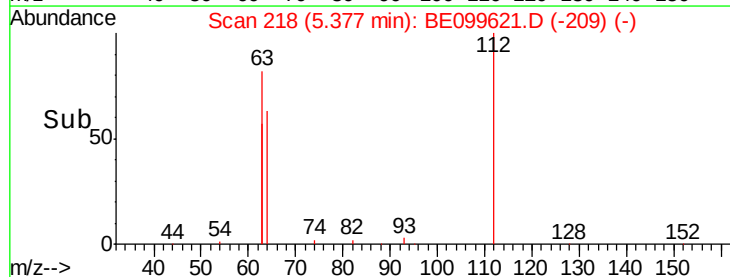
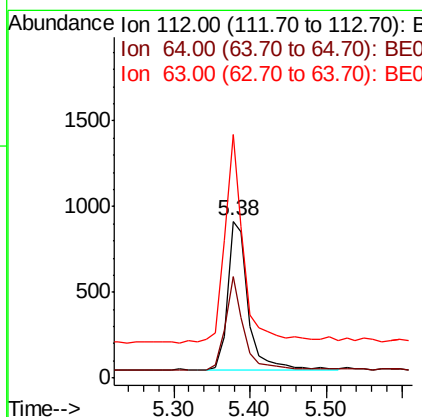
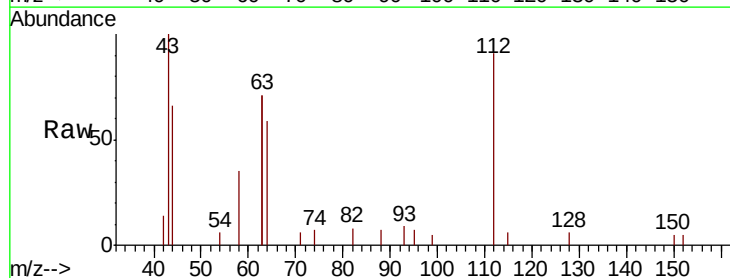
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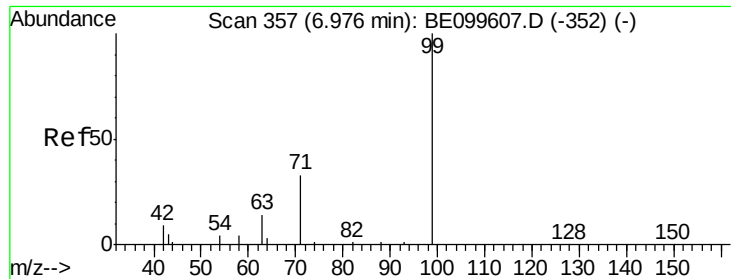


#4

2-Fluorophenol  
Concen: 0.308 ng  
RT: 5.38 min Scan# 218  
Delta R.T. 0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.6  | 43.7  | 65.5  |
| 63      | 127.5 | 94.0  | 141.0 |





#5

Phenol-d6

Concen: 0.327 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

Instrument :

BNA\_E

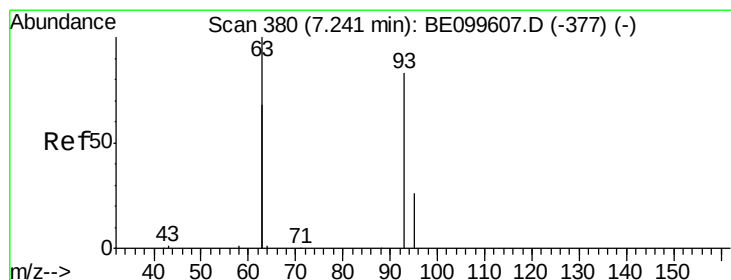
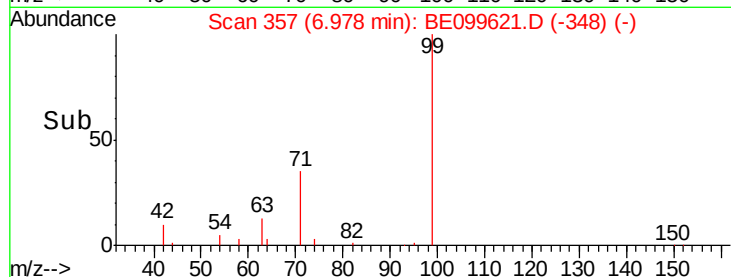
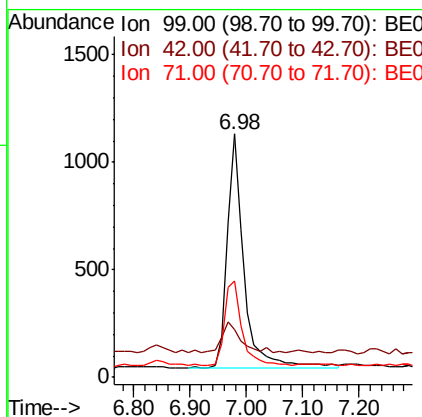
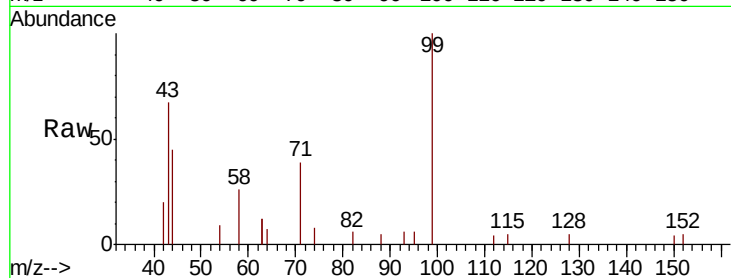
ClientSampled :

PB119274BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 2247  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.0  | 14.3  | 21.5  |
| 71       | 38.2  | 33.1  | 49.7  |

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#6

bis(2-Chloroethyl)ether

Concen: 0.340 ng

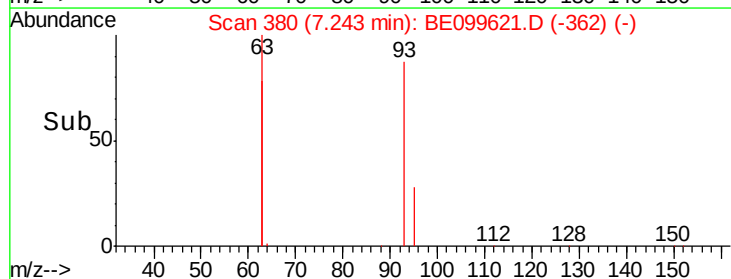
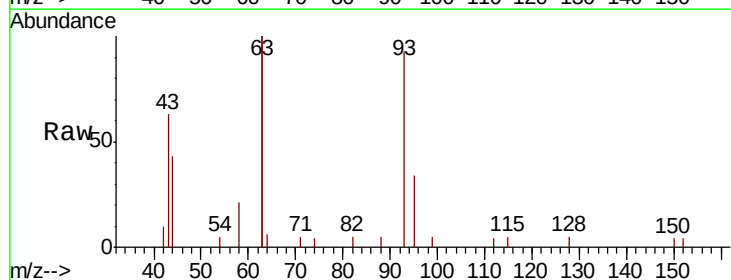
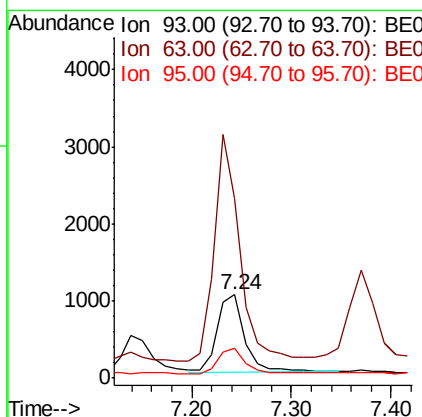
RT: 7.24 min Scan# 380

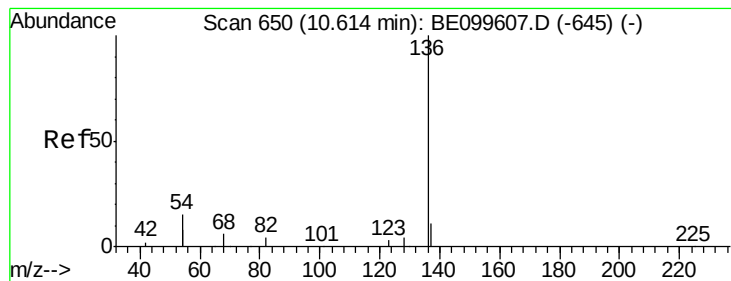
Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1967  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 258.8 | 201.0 | 301.4 |
| 95       | 33.6  | 25.0  | 37.4  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. 0.01 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

Instrument :

BNA\_E

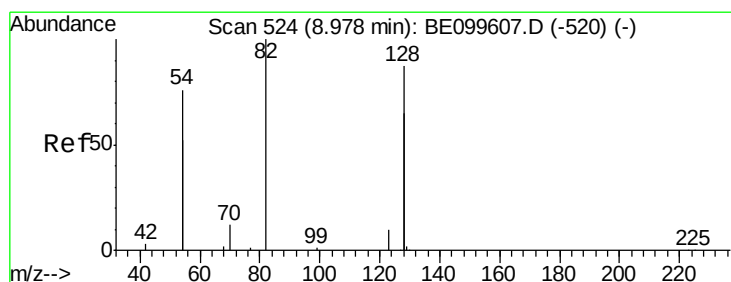
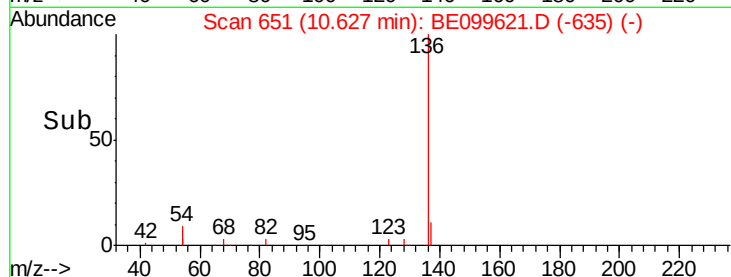
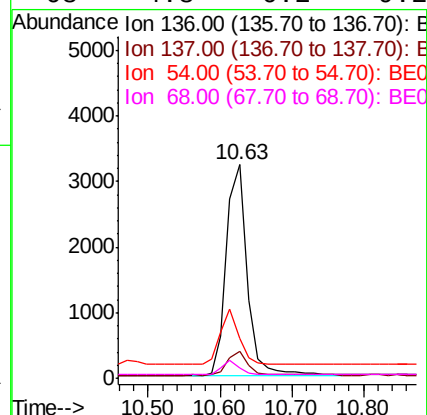
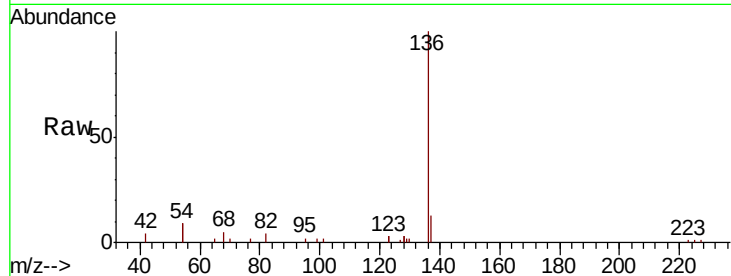
ClientSampleId :

PB119274BS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   | 6471 |       |       |
| 137     | 12.8  |      | 9.7   | 14.5  |
| 54      | 18.3  |      | 23.8  | 35.8# |
| 68      | 4.8   |      | 6.2   | 9.2#  |

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#8

Nitrobenzene-d5

Concen: 0.304 ng

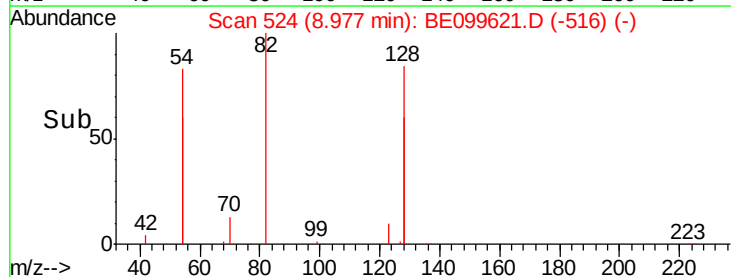
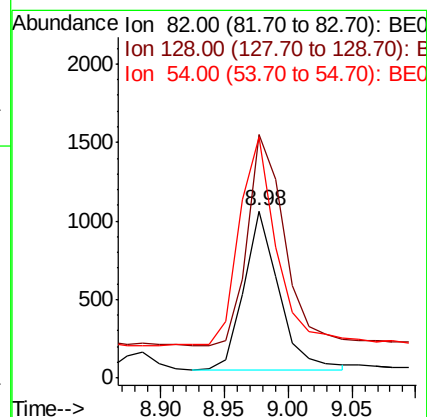
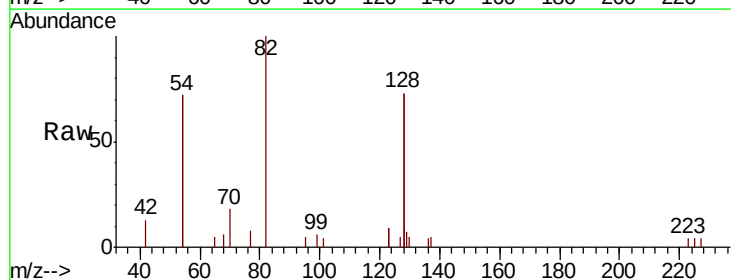
RT: 8.98 min Scan# 524

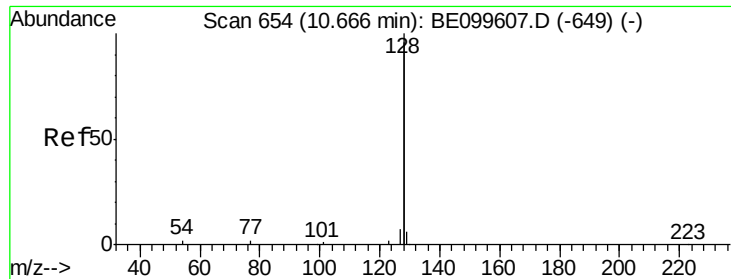
Delta R.T. -0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   | 1905 |       |       |
| 128     | 146.0 |      | 131.4 | 197.2 |
| 54      | 144.3 |      | 113.9 | 170.9 |





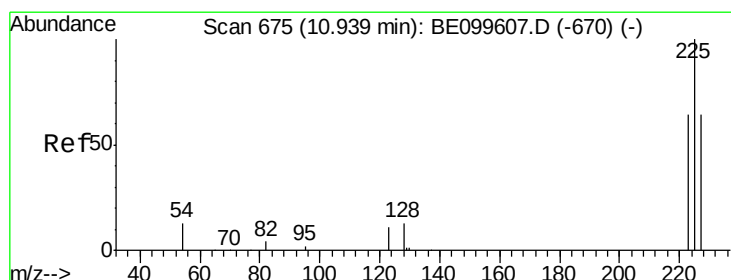
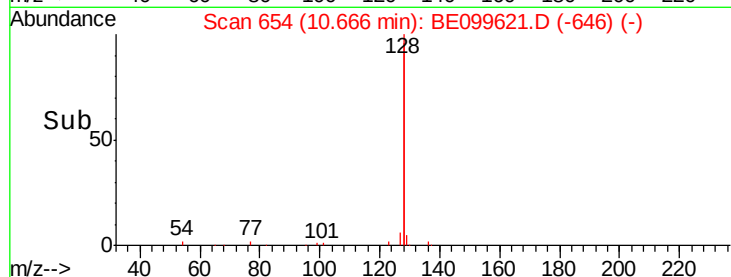
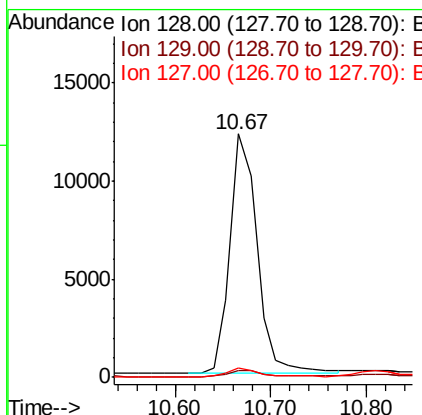
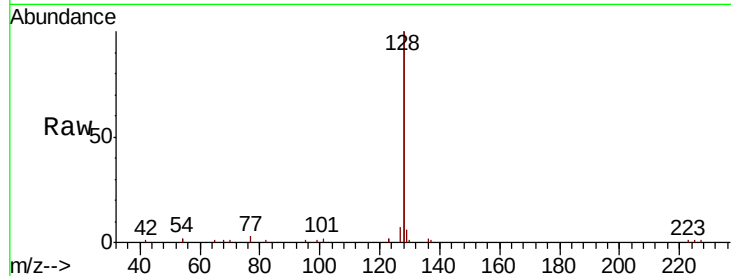
#9  
Naphthalene  
Concen: 0.349 ng  
RT: 10.67 min Scan# 654  
Delta R.T. -0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PB119274BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 3.0   | 2.6   | 4.0   |
| 127     | 3.6   | 3.0   | 4.6   |

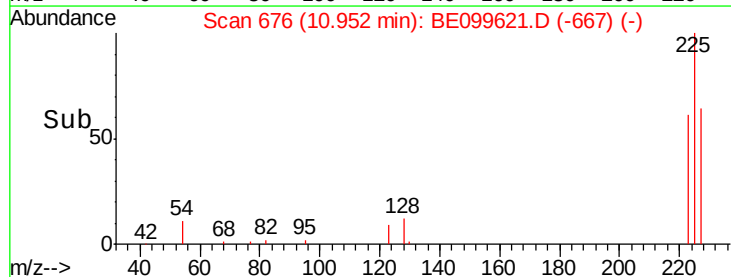
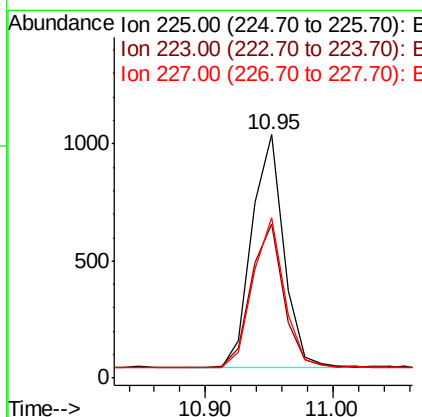
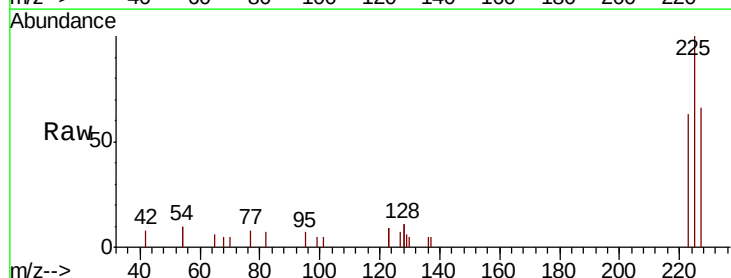
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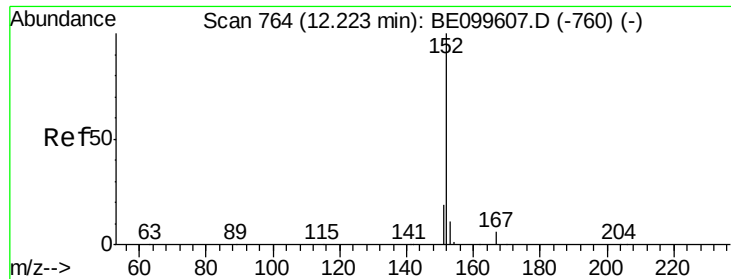
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#10  
Hexachlorobutadiene  
Concen: 0.343 ng  
RT: 10.95 min Scan# 676  
Delta R.T. 0.01 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.4  | 49.8  | 74.8  |
| 227     | 64.2  | 51.2  | 76.8  |





#11

2-Methylnaphthalene-d10

Concen: 0.356 ng m

RT: 12.22 min Scan# 764

Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

Instrument :

BNA\_E

ClientSampleId :

PB119274BS

Tot Ion:152 Resp: 3872

Ion Ratio Lower Upper

152 100

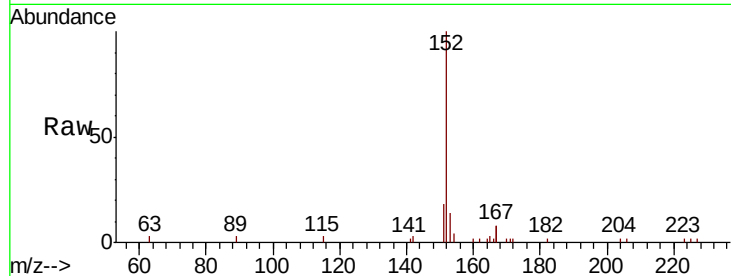
151 17.5 15.3 22.9

Manual Integrations

APPROVED

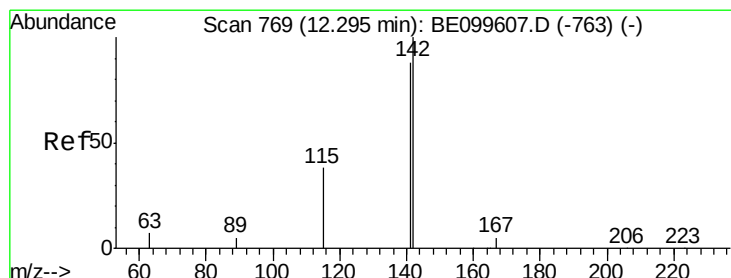
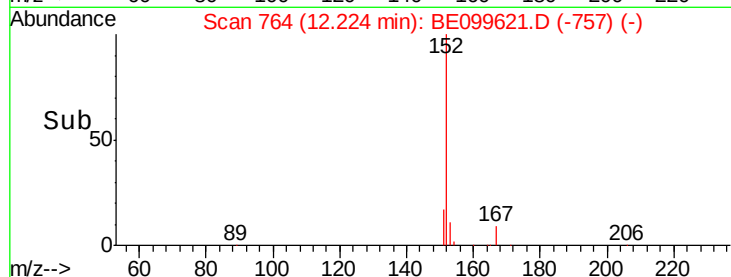
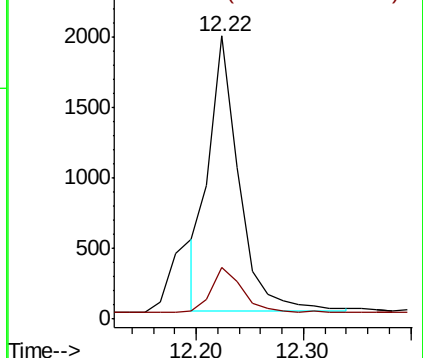
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.340 ng

RT: 12.30 min Scan# 769

Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

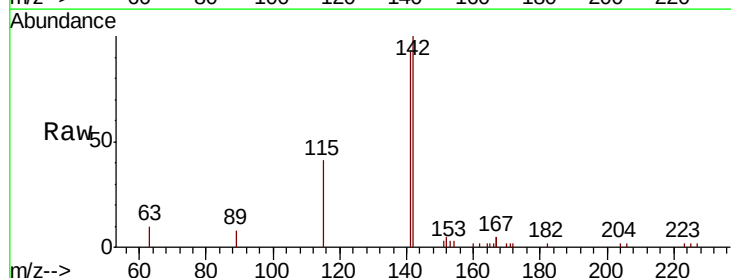
Tgt Ion:142 Resp: 3863

Ion Ratio Lower Upper

142 100

141 92.7 70.4 105.6

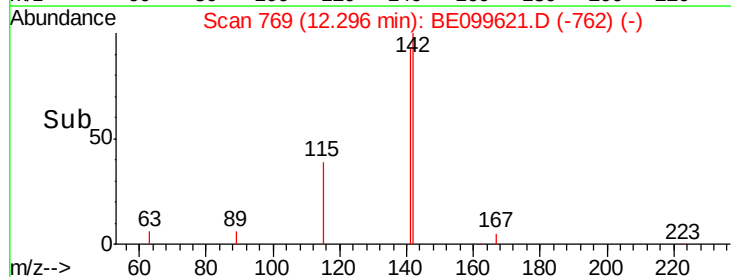
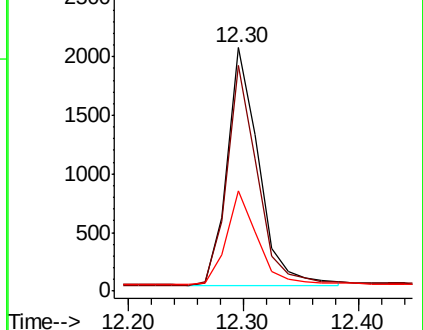
115 41.1 32.2 48.4



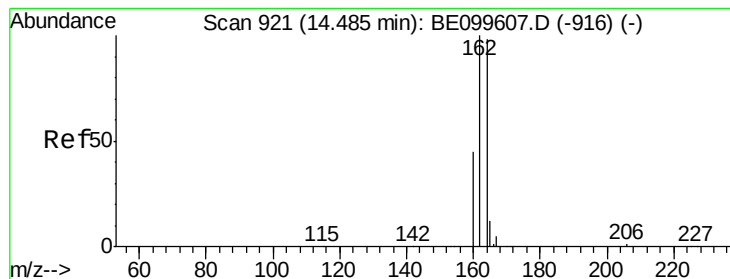
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.49 min Scan# 921

Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

Instrument :

BNA\_E

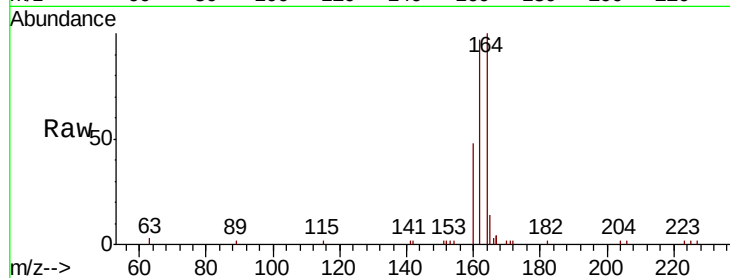
ClientSampleId :

PB119274BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 164   | Resp: | 4133  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 96.8  | 81.4  | 122.0 |
| 160      | 47.8  | 37.4  | 56.2  |

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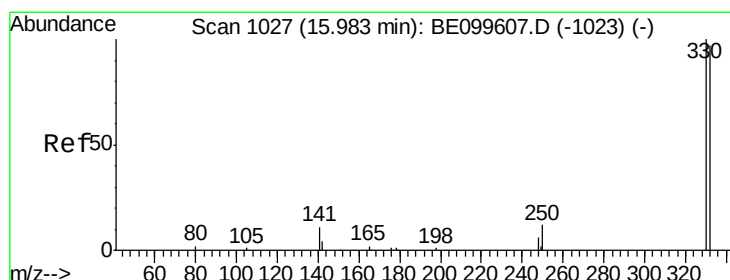
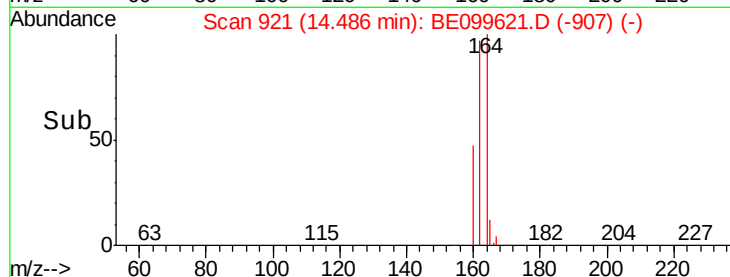
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

14.49

Time-->



#14

2,4,6-Tribromophenol

Concen: 0.242 ng

RT: 15.98 min Scan# 1027

Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 683   |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 101.9 | 73.8  | 110.8 |
| 141      | 23.0  | 21.0  | 31.6  |

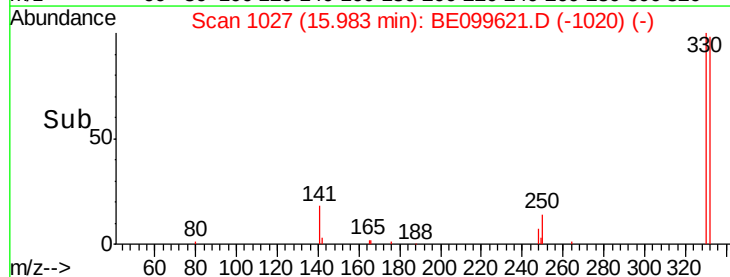
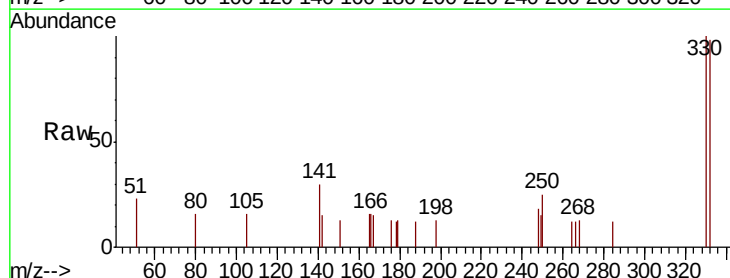
Abundance Ion 330.00 (329.70 to 330.70): E

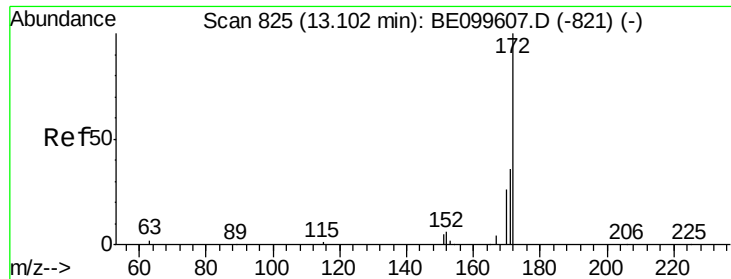
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

15.98

Time-->





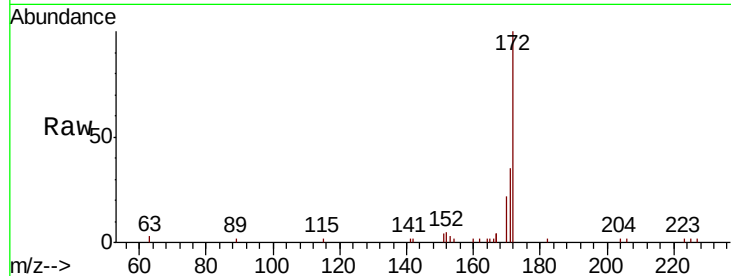
#15  
2-Fluorobiphenyl  
Concen: 0.343 ng  
RT: 13.12 min Scan# 826  
Delta R.T. 0.02 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PB119274BS

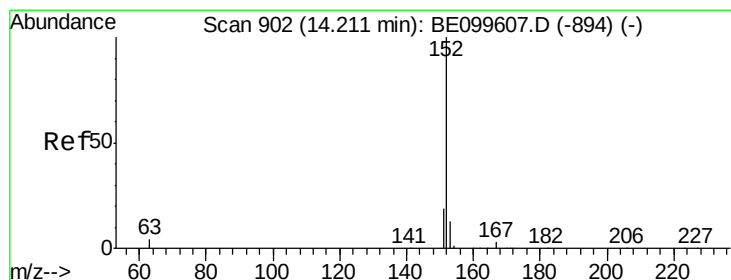
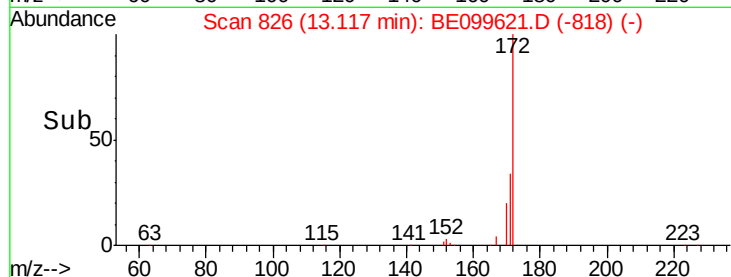
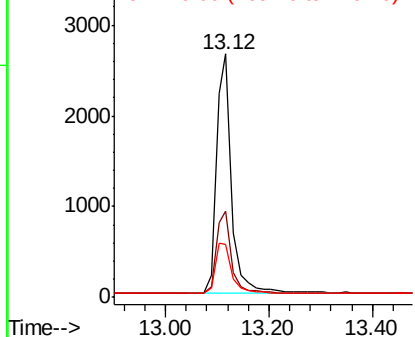
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 29.4  | 44.2  |
| 170     | 21.8  | 21.5  | 32.3  |

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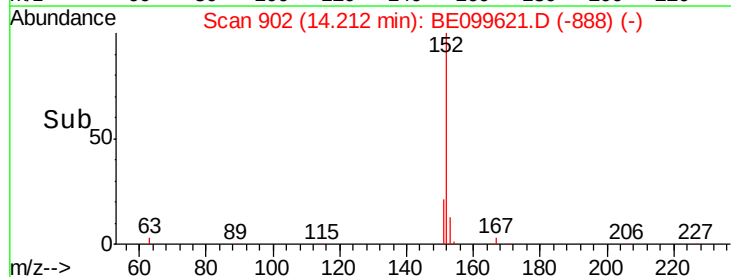
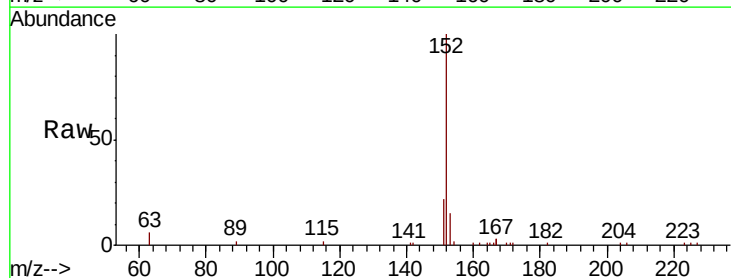
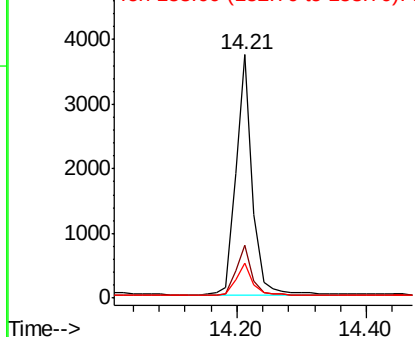
Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

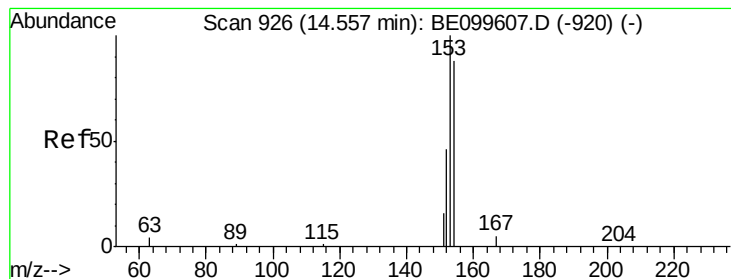


#16  
Acenaphthylene  
Concen: 0.330 ng  
RT: 14.21 min Scan# 902  
Delta R.T. 0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.2  | 15.6  | 23.4  |
| 153     | 13.4  | 10.4  | 15.6  |

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: 0.335 ng

RT: 14.56 min Scan# 926

Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

Instrument :

BNA\_E

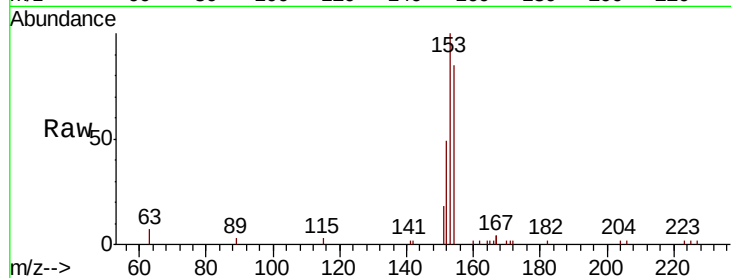
ClientSampleId :

PB119274BS

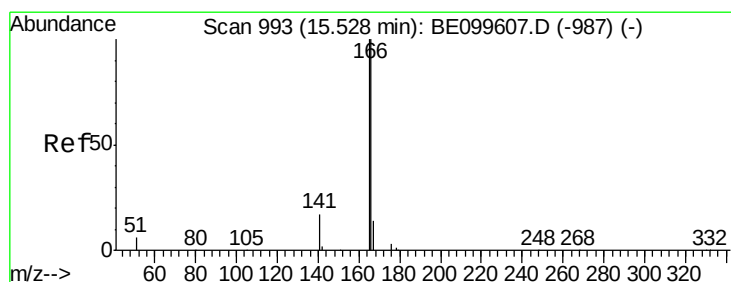
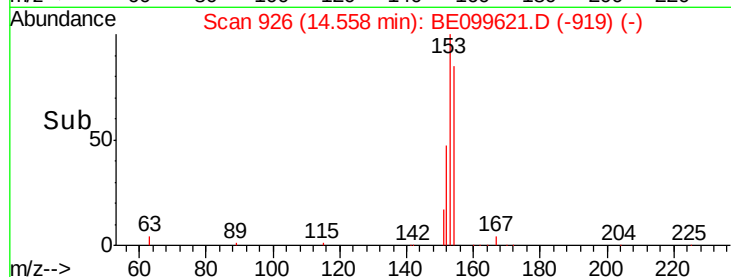
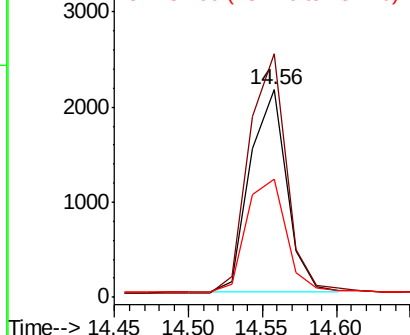
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 154   | Resp: | 3686  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 120.0 | 94.1  | 141.1 |
| 152      | 59.8  | 46.5  | 69.7  |

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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: 0.347 ng

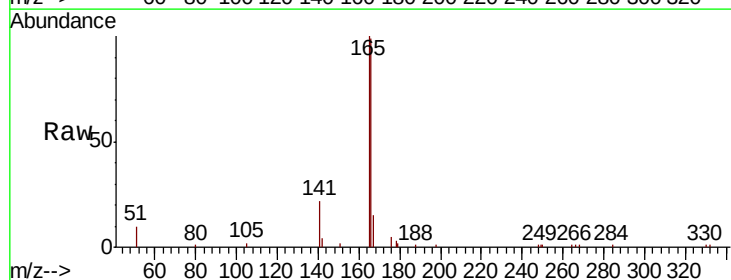
RT: 15.53 min Scan# 993

Delta R.T. 0.00 min

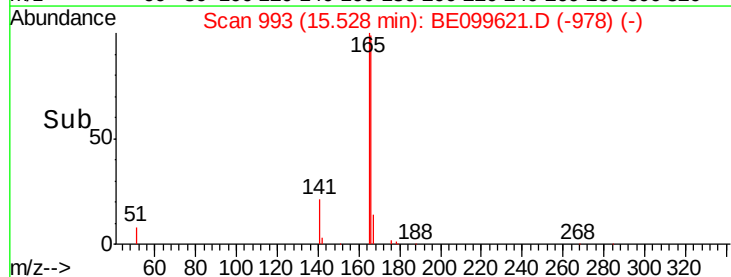
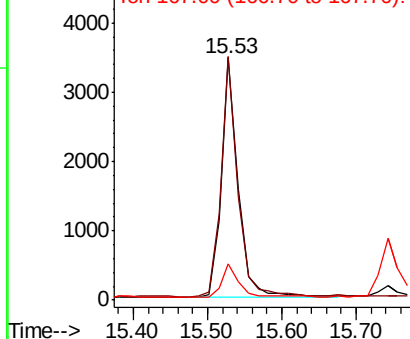
Lab File: BE099621.D

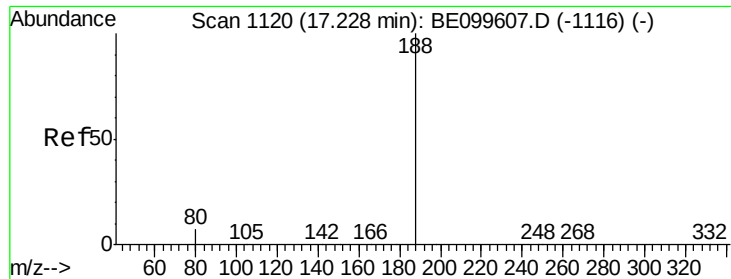
Acq: 16 May 2019 13:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 5478  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 99.7  | 79.8  | 119.8 |
| 167      | 13.3  | 11.2  | 16.8  |



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





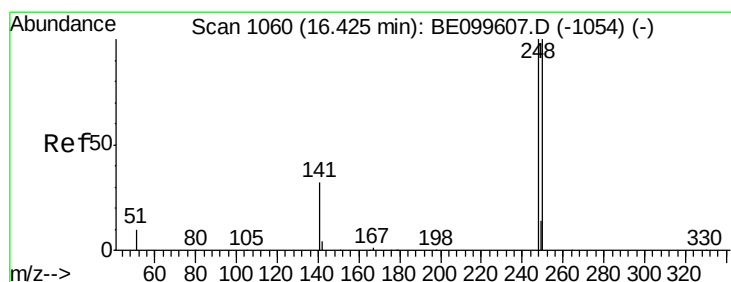
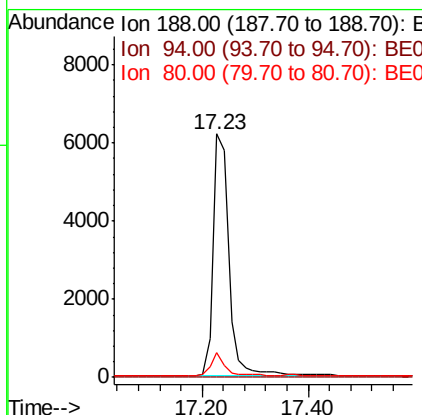
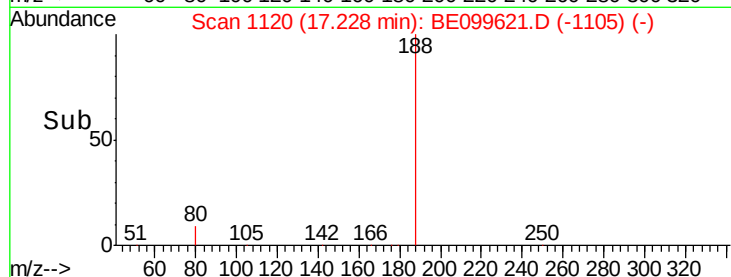
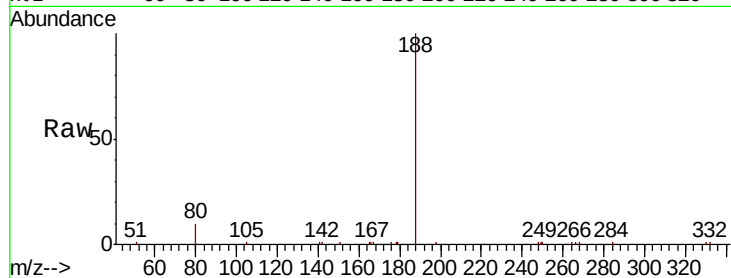
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.23 min Scan# 1120  
Delta R.T. 0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PB119274BS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 0.0   | 0.0        | 0.0   |
| 80      | 10.1  | 6.4        | 9.6#  |

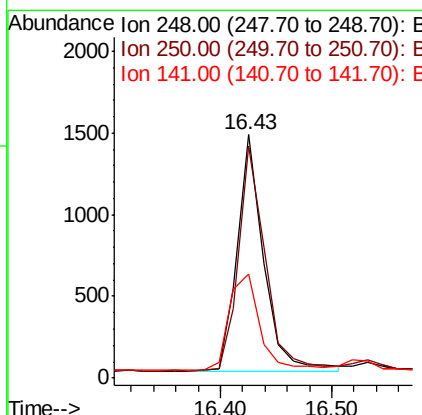
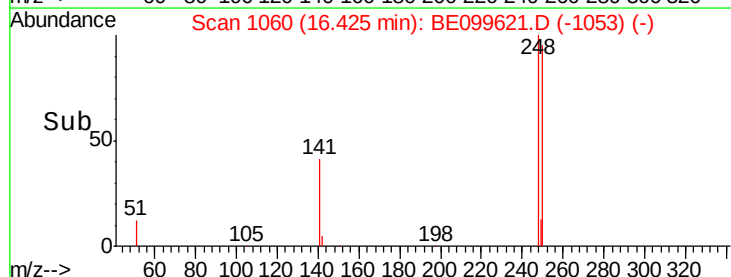
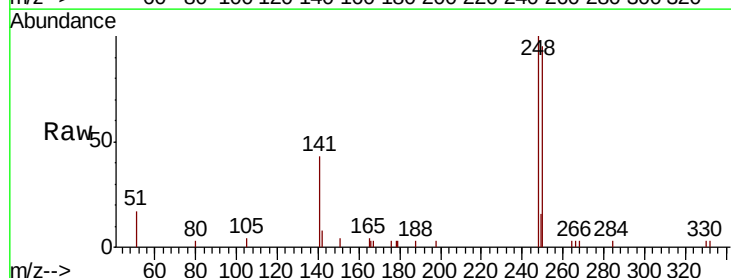
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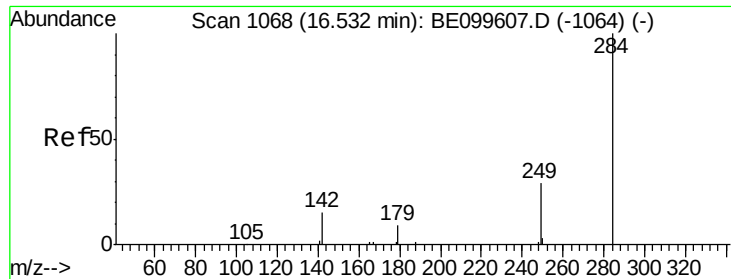
mohammad  
5/17/2019 2:25:06 PM



#20  
4-Bromophenyl-phenylether  
Concen: 0.329 ng  
RT: 16.43 min Scan# 1060  
Delta R.T. 0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 248     | 100   |            |       |
| 250     | 95.4  | 80.4       | 120.6 |
| 141     | 43.0  | 27.8       | 41.8# |





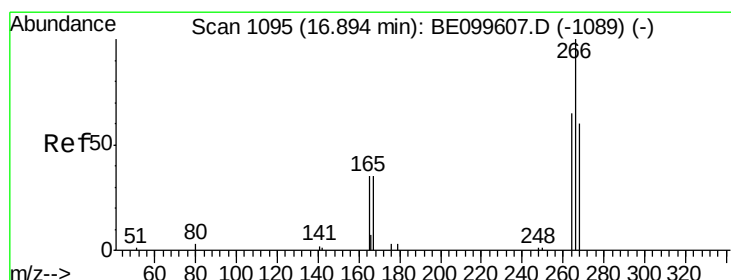
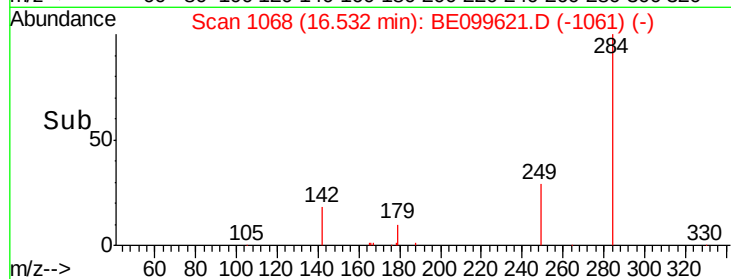
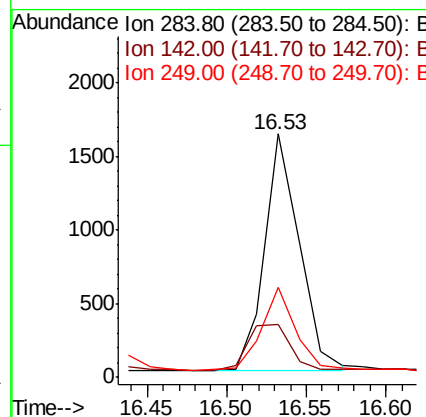
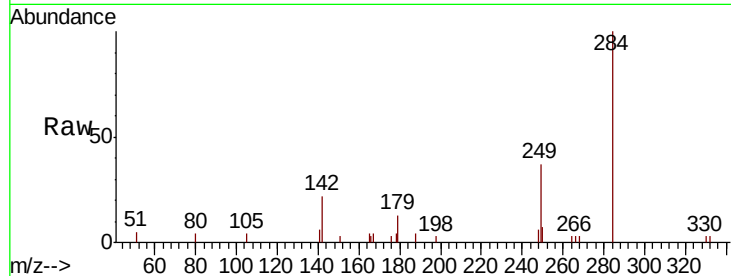
#21  
Hexachlorobenzene  
Concen: 0.341 ng  
RT: 16.53 min Scan# 1068  
Delta R.T. 0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PB119274BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 24.2  | 19.4  | 29.2  |
| 249     | 34.0  | 24.6  | 37.0  |

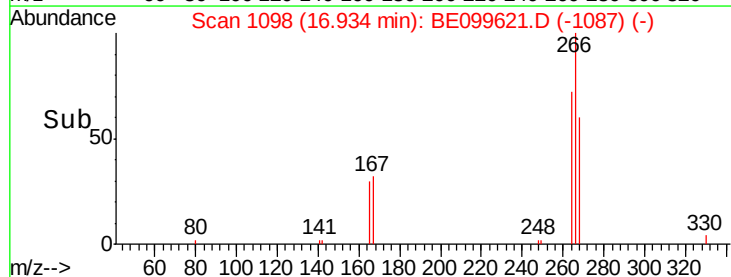
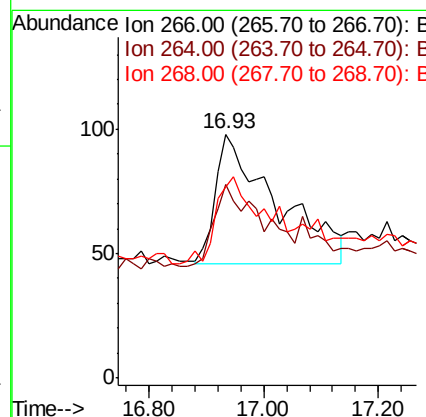
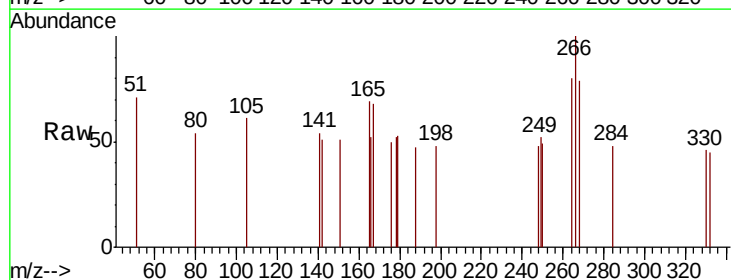
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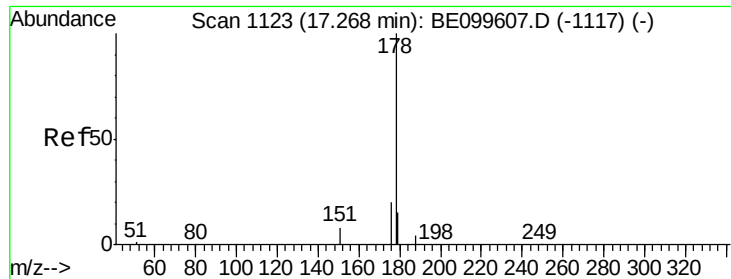
mohammad  
5/17/2019 2:25:06 PM



#22  
Pentachlorophenol  
Concen: 0.368 ng m  
RT: 16.93 min Scan# 1098  
Delta R.T. 0.04 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 79.6  | 57.7  | 86.5  |
| 268     | 78.6  | 55.8  | 83.8  |





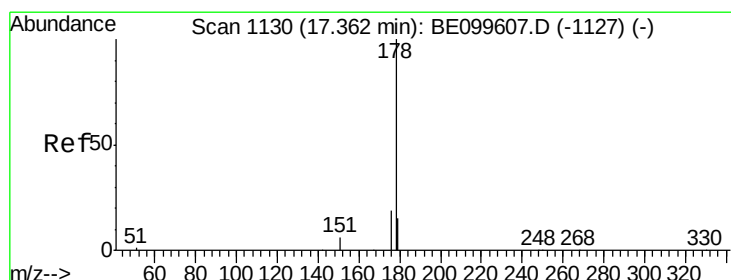
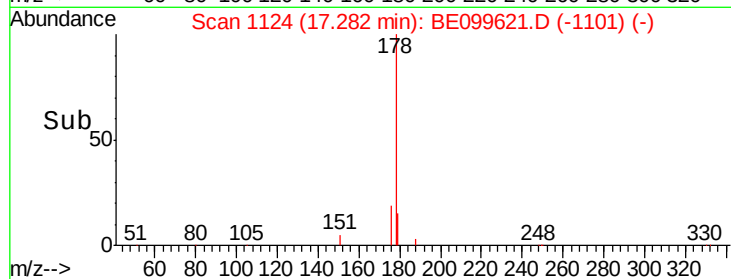
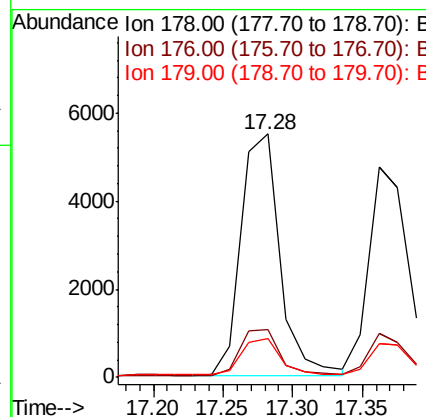
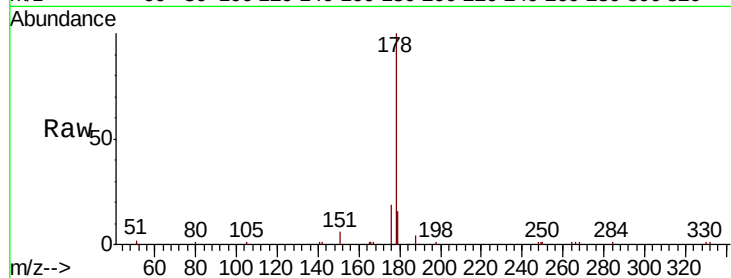
#23  
Phenanthrene  
Concen: 0.341 ng  
RT: 17.28 min Scan# 1124  
Delta R.T. 0.01 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PB119274BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.4  | 15.7  | 23.5  |
| 179     | 15.3  | 12.2  | 18.2  |

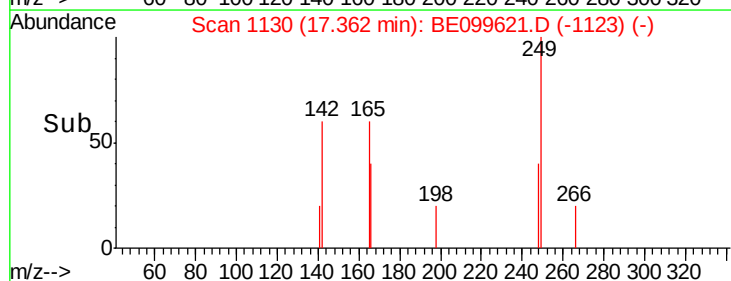
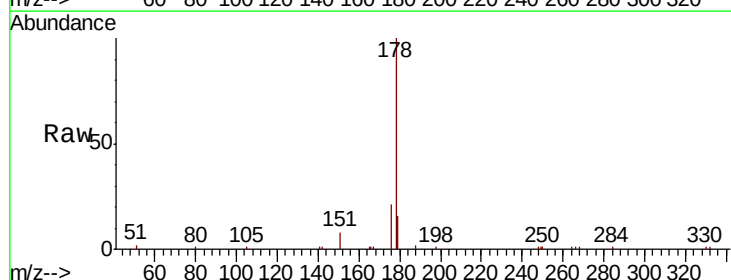
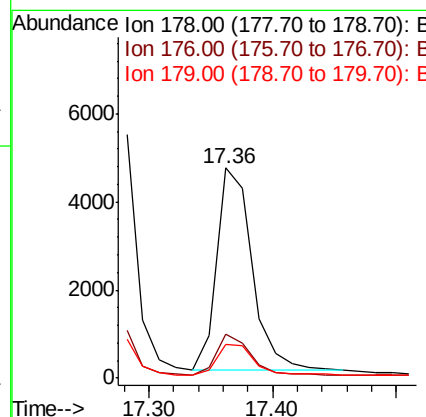
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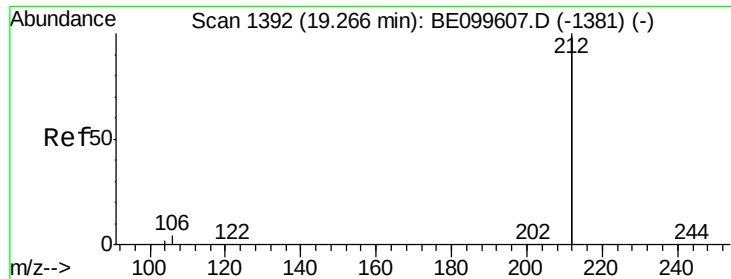
mohammad  
5/17/2019 2:25:06 PM



#24  
Anthracene  
Concen: 0.317 ng  
RT: 17.36 min Scan# 1130  
Delta R.T. 0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 15.2  | 22.8  |
| 179     | 15.8  | 12.1  | 18.1  |





#25

Fluoranthene-d10

Concen: 0.342 ng

RT: 19.27 min Scan# 1393

Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

Instrument :

BNA\_E

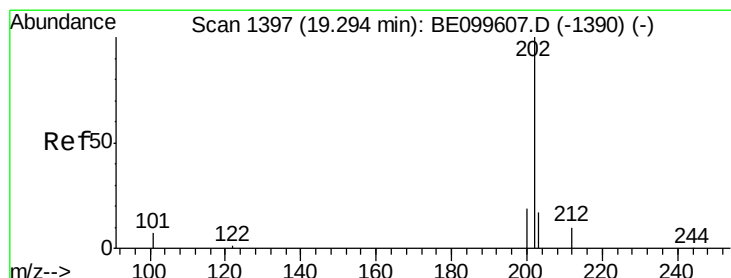
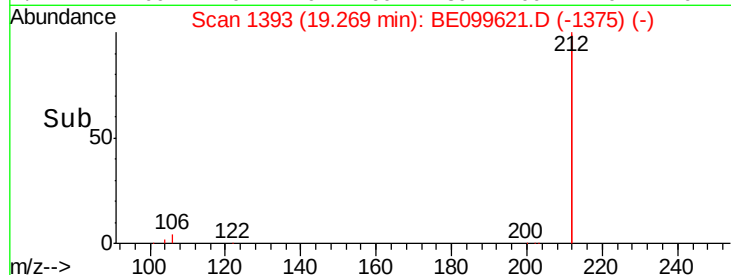
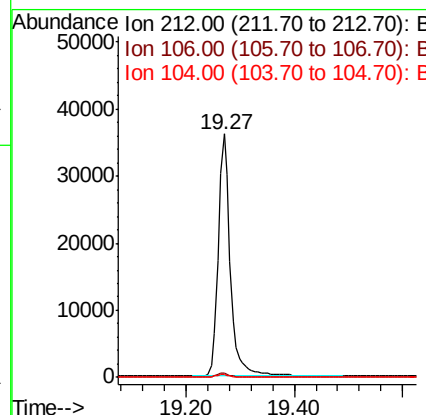
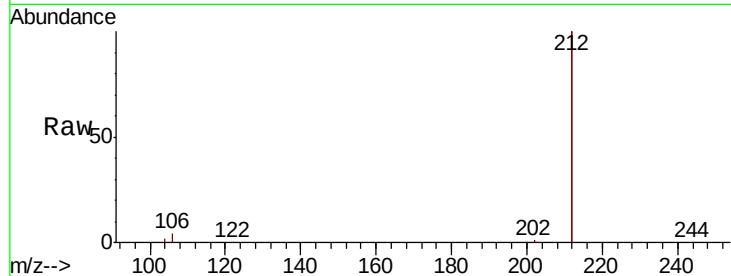
ClientSampleId :

PB119274BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 56807 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 1.8   | 1.4   | 2.2   |
| 104       | 1.1   | 0.9   | 1.3   |

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#26

Fluoranthene

Concen: 0.358 ng

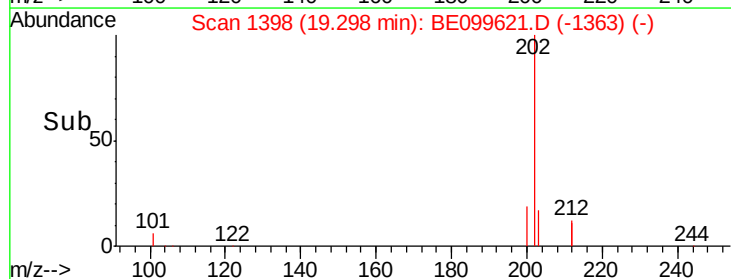
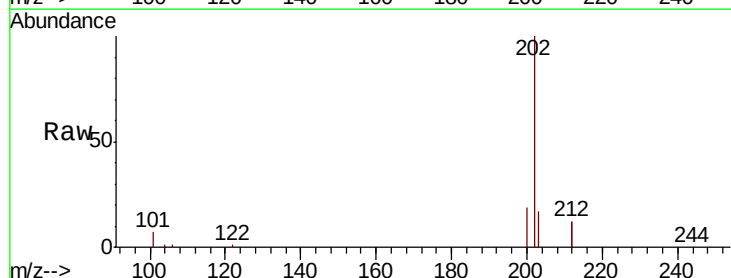
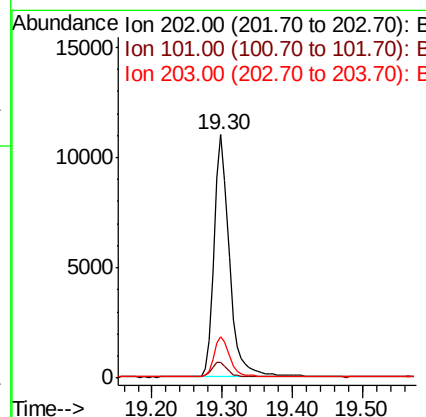
RT: 19.30 min Scan# 1398

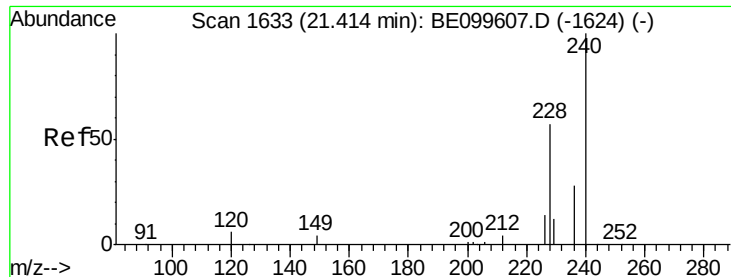
Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 16802 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 6.6   | 5.0   | 7.6   |
| 203       | 16.7  | 13.7  | 20.5  |





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.43 min Scan# 1635

Delta R.T. 0.01 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

Instrument :

BNA\_E

ClientSampleId :

PB119274BS

Tot Ion:240 Resp: 17014

Ion Ratio Lower Upper

240 100

120 3.4 5.7 8.5#

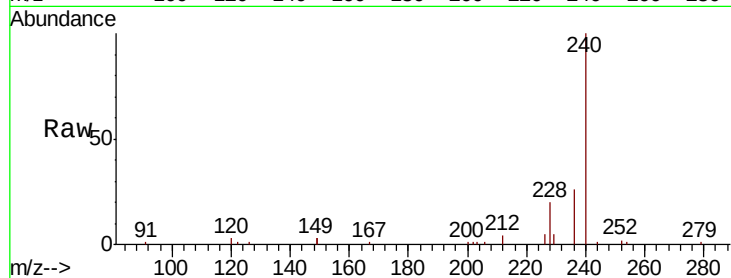
236 25.5 22.8 34.2

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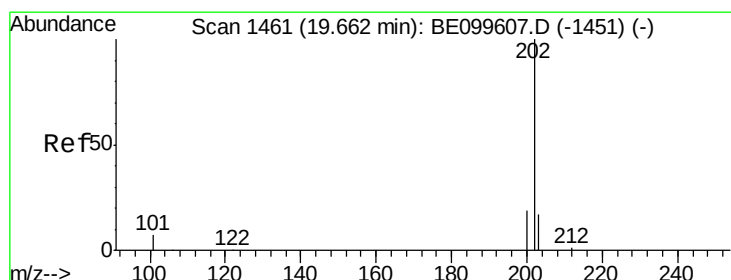
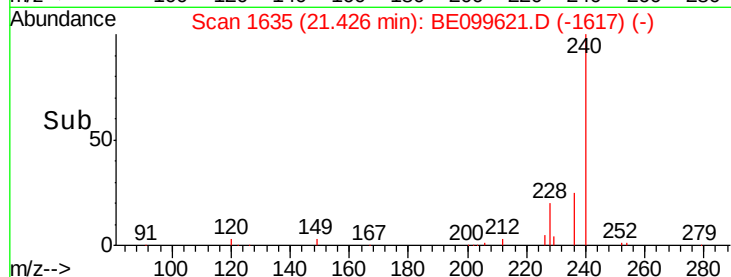
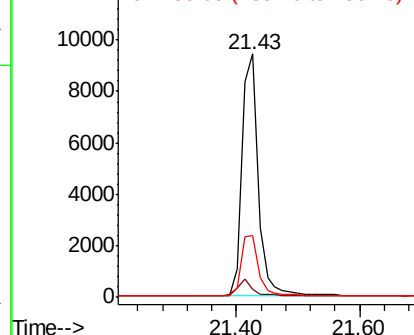


Abundance

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: 0.395 ng

RT: 19.66 min Scan# 1461

Delta R.T. -0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

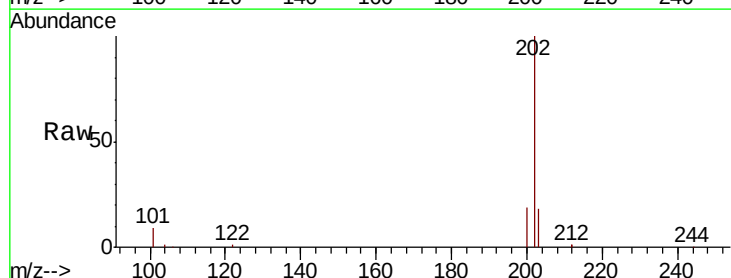
Tgt Ion:202 Resp: 17120

Ion Ratio Lower Upper

202 100

200 19.3 15.8 23.6

203 17.8 14.1 21.1

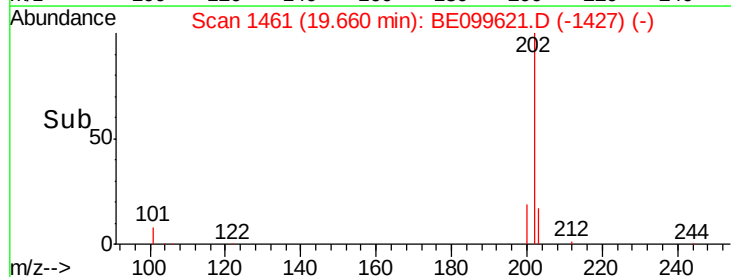
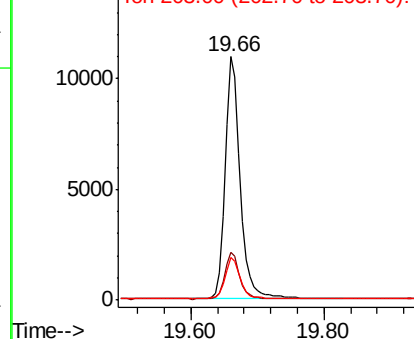


Abundance

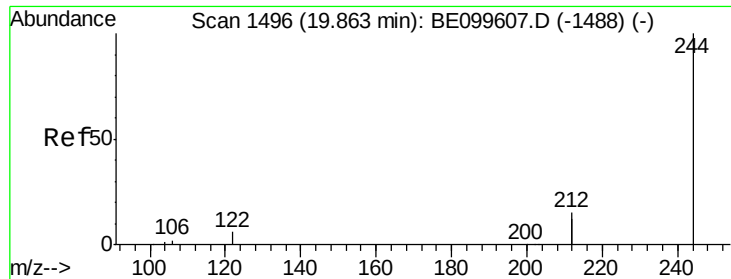
Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.389 ng

RT: 19.87 min Scan# 1497

Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

Instrument :

BNA\_E

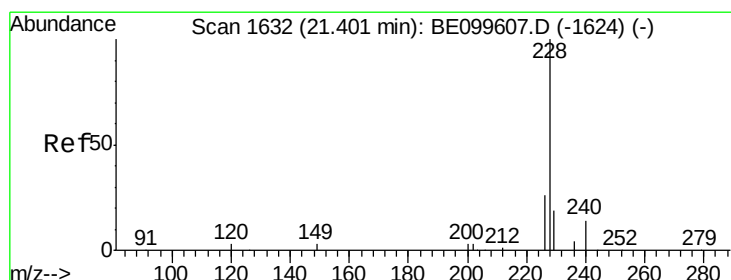
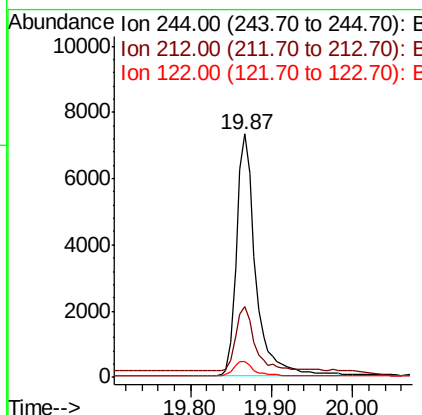
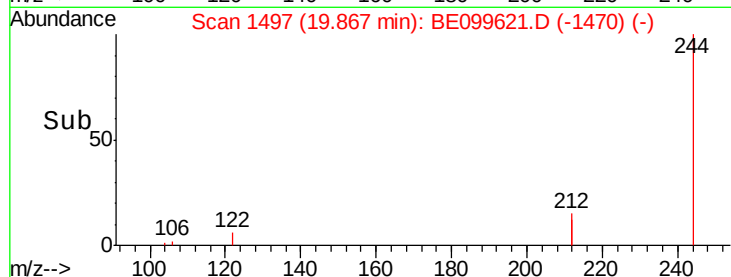
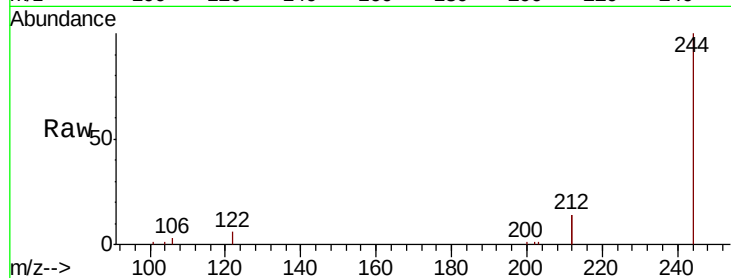
ClientSampleId :

PB119274BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 11906 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 29.0  | 23.8  | 35.6  |
| 122       | 6.4   | 5.0   | 7.6   |

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#30

Benzo(a)anthracene

Concen: 0.398 ng

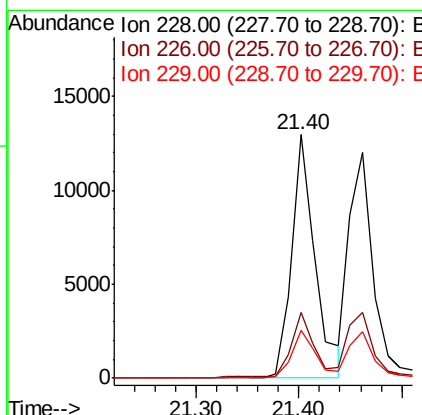
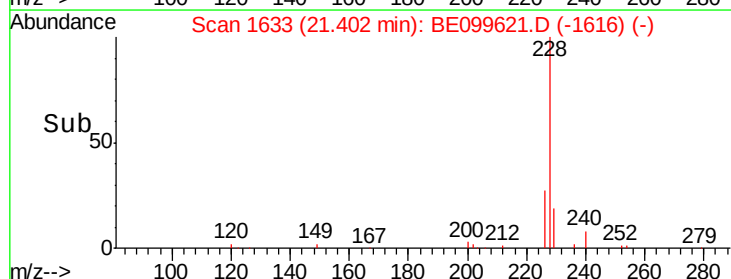
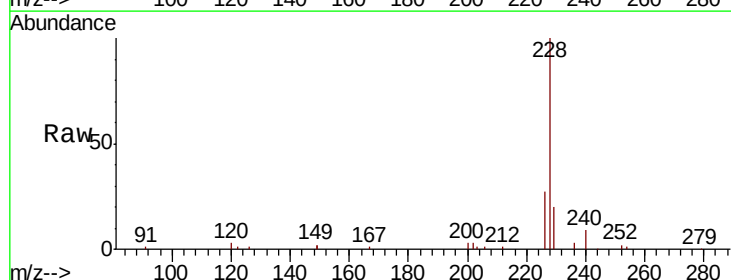
RT: 21.40 min Scan# 1633

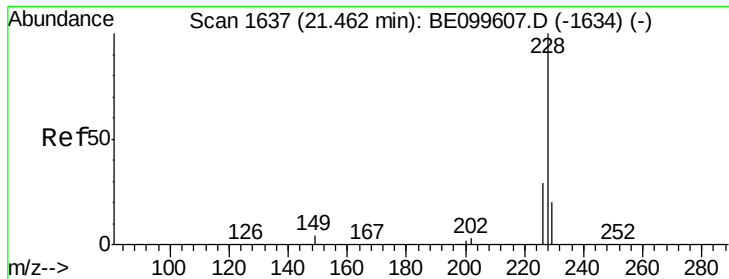
Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 20476 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 27.0  | 21.4  | 32.2  |
| 229       | 19.6  | 15.8  | 23.8  |





#31

Chrysene

Concen: 0.361 ng

RT: 21.46 min Scan# 1638

Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

Instrument :

BNA\_E

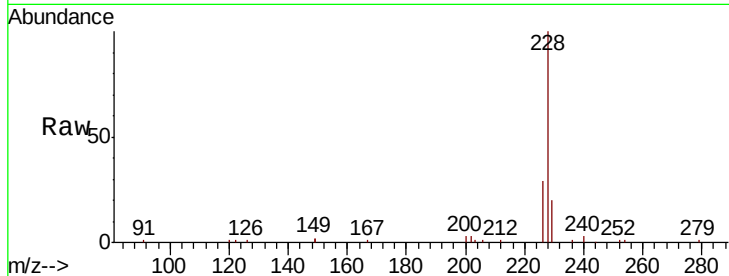
ClientSampleId :

PB119274BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 19119 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 29.0  | 23.0  | 34.4  |
| 229      | 20.3  | 16.4  | 24.6  |

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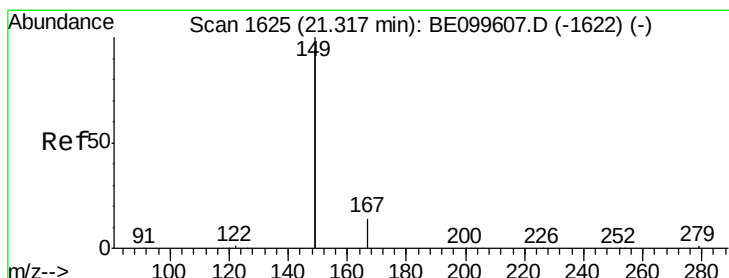
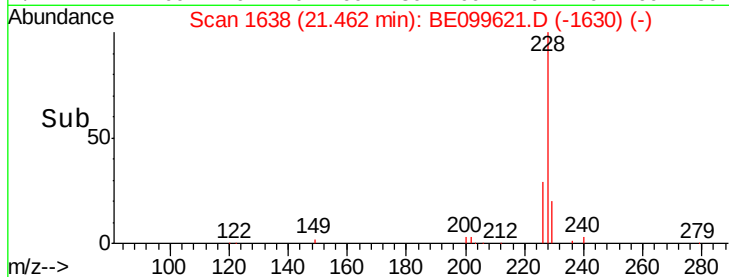
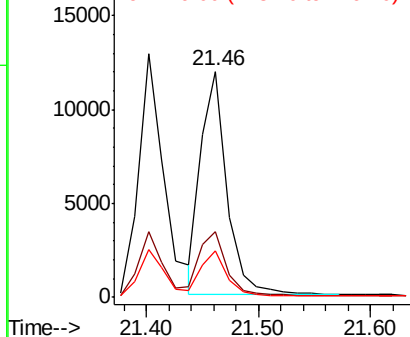


Abundance

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: 0.318 ng

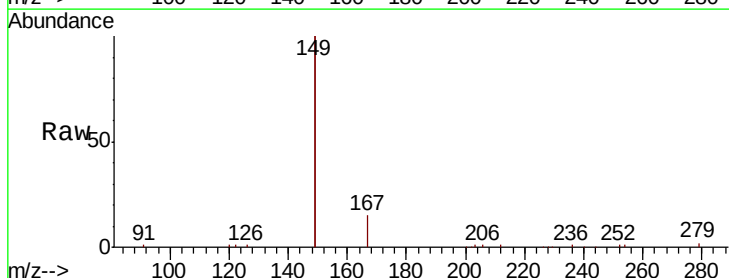
RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE099621.D

Acq: 16 May 2019 13:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 25226 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 167      | 7.6   | 6.0   | 9.0   |
| 279      | 1.3   | 1.1   | 1.7   |

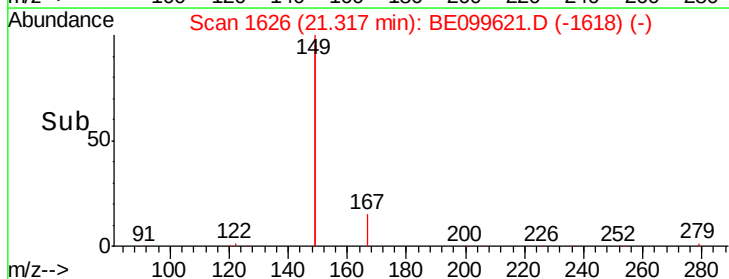
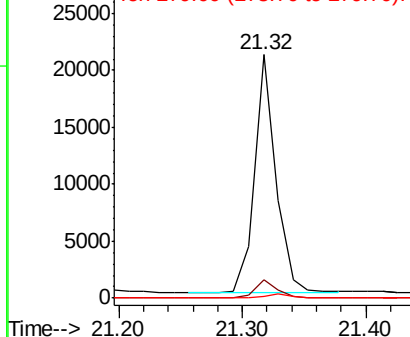


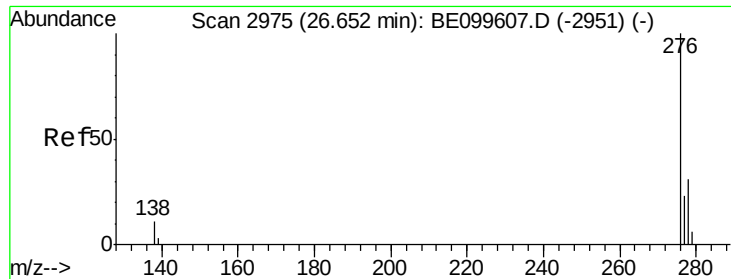
Abundance

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





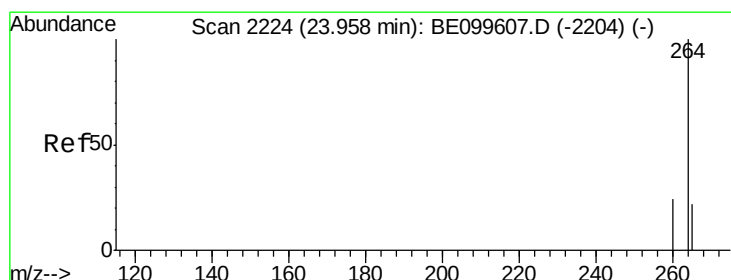
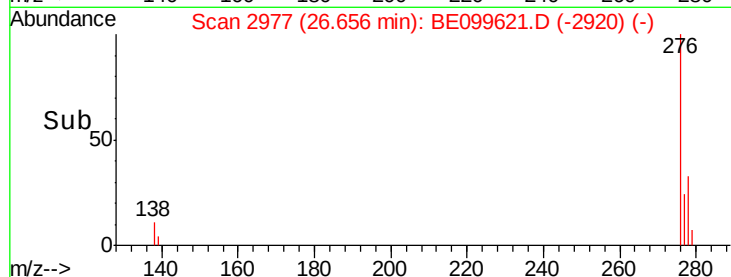
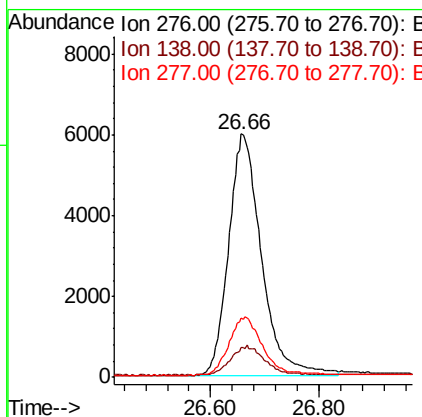
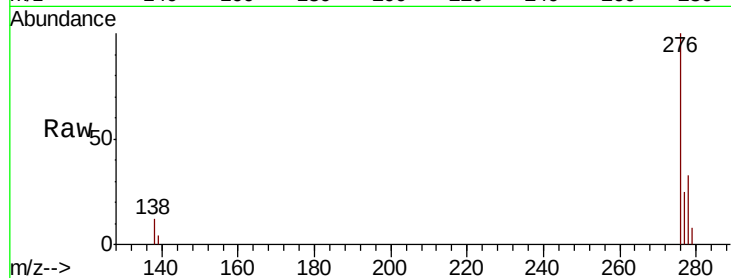
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.381 ng  
RT: 26.66 min Scan# 2977  
Delta R.T. 0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PB119274BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 12.1  | 10.0  | 15.0  |
| 277     | 24.6  | 19.1  | 28.7  |

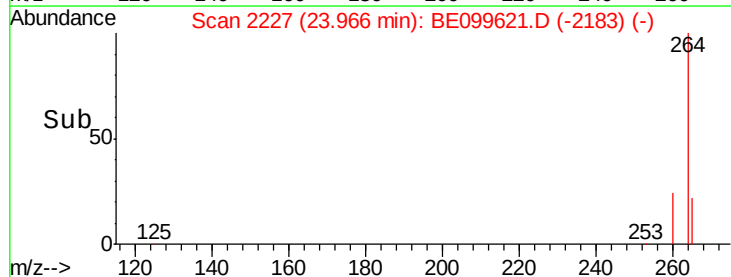
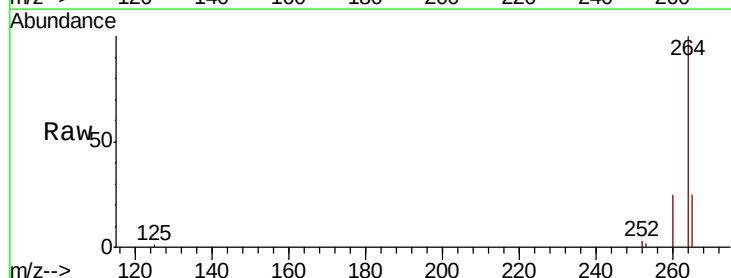
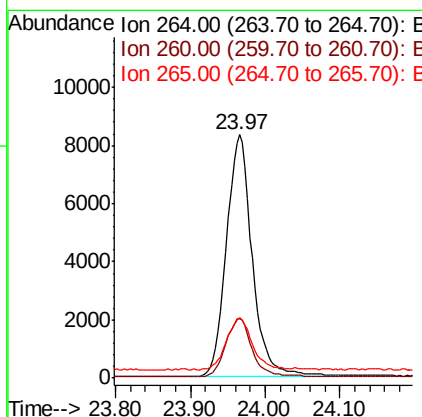
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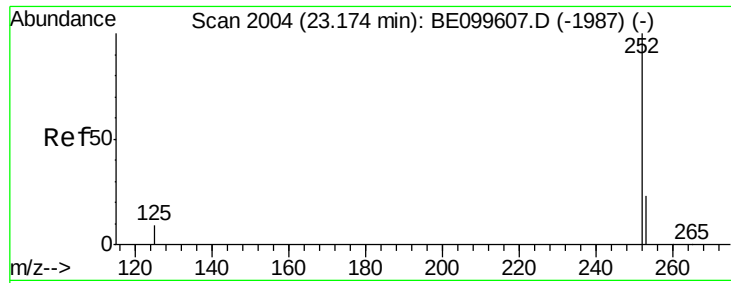
mohammad  
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#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.97 min Scan# 2227  
Delta R.T. 0.01 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 19.7  | 29.5  |
| 265     | 24.9  | 21.2  | 31.8  |





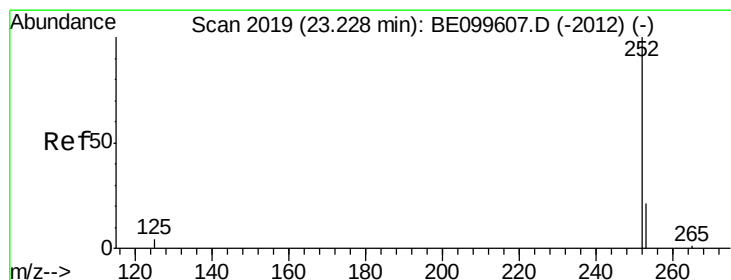
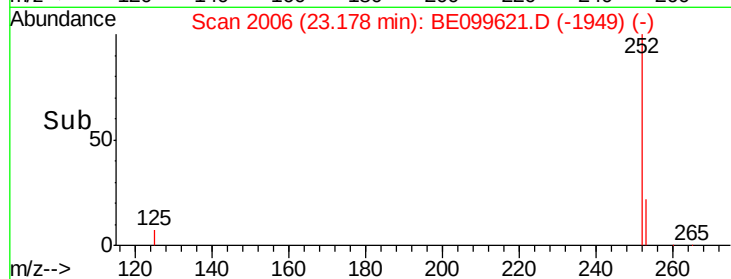
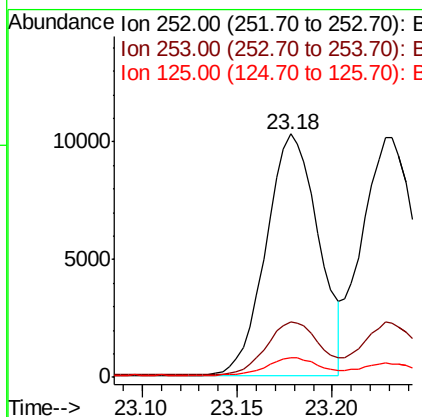
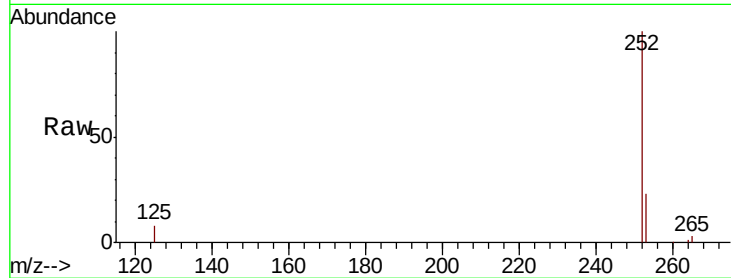
#35  
Benzo(b)fluoranthene  
Concen: 0.352 ng  
RT: 23.18 min Scan# 2006  
Delta R.T. 0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PB119274BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 19.1  | 28.7  |
| 125     | 7.9   | 7.8   | 11.8  |

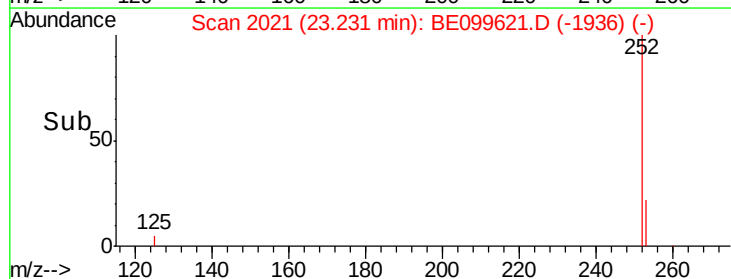
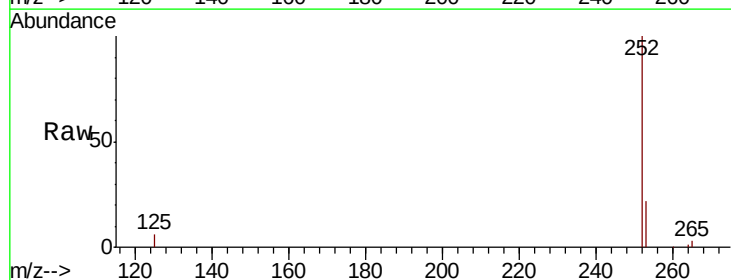
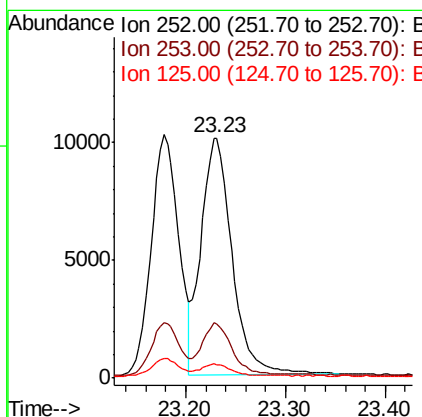
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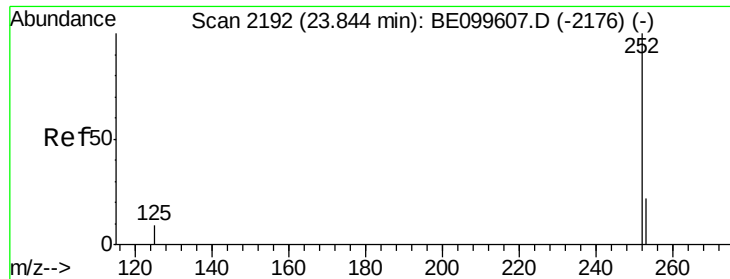
mohammad  
5/17/2019 2:25:06 PM



#36  
Benzo(k)fluoranthene  
Concen: 0.395 ng  
RT: 23.23 min Scan# 2021  
Delta R.T. 0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.6  | 28.0  |
| 125     | 5.8   | 5.2   | 7.8   |





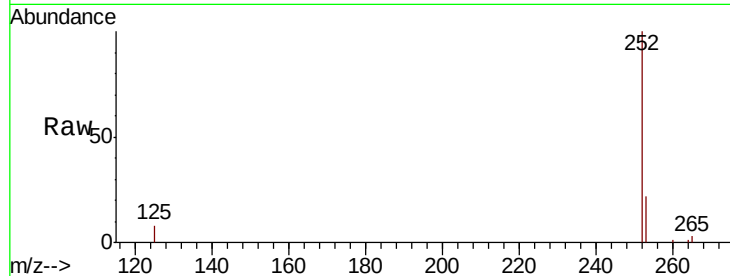
#37  
Benzo(a)pyrene  
Concen: 0.371 ng  
RT: 23.85 min Scan# 2194  
Delta R.T. 0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

Instrument :  
BNA\_E  
ClientSampleId :  
PB119274BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 19.0  | 28.6  |
| 125     | 8.2   | 8.8   | 13.2  |

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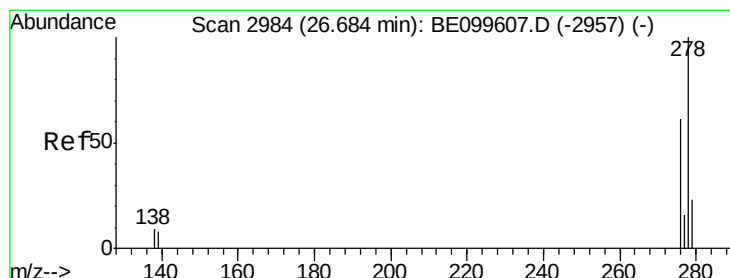
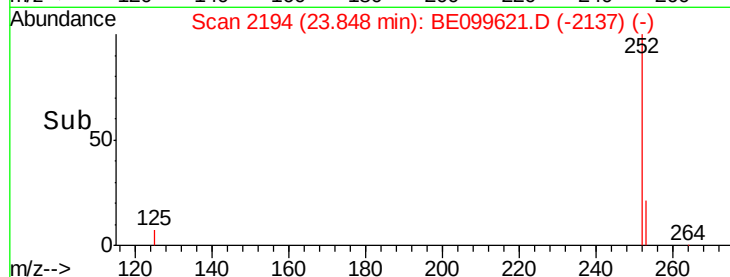
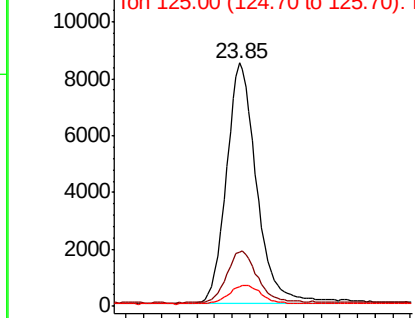


Abundance

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



#38  
Dibenzo(a,h)anthracene  
Concen: 0.371 ng  
RT: 26.69 min Scan# 2986  
Delta R.T. 0.00 min  
Lab File: BE099621.D  
Acq: 16 May 2019 13:16

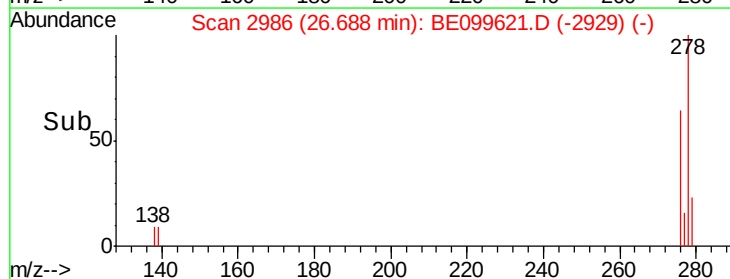
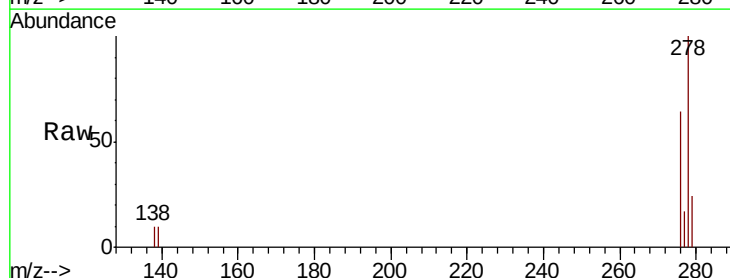
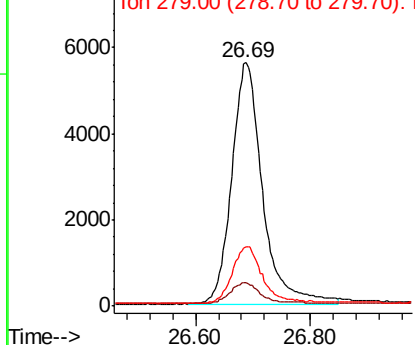
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 9.6   | 7.9   | 11.9  |
| 279     | 24.3  | 19.5  | 29.3  |

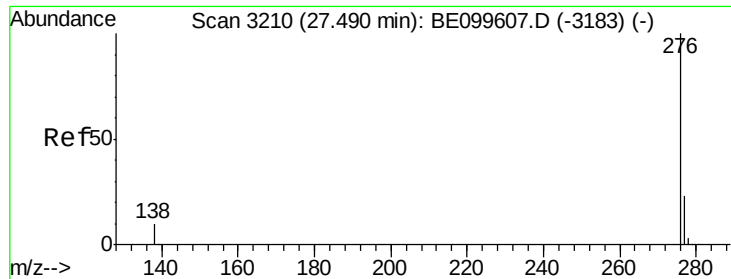
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39  
 Benzo(a,h,i)perylene  
 Concen: 0.381 ng  
 RT: 27.49 min Scan# 3210  
 Delta R.T. -0.00 min  
 Lab File: BE099621.D  
 Acq: 16 May 2019 13:16

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB119274BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.8  | 19.3  | 28.9  |
| 138     | 12.0  | 9.1   | 13.7  |

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