

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE120619\  
 Data File : BE100800.D  
 Acq On : 6 Dec 2019 10:33  
 Operator : JU  
 Sample : PB125273BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB125273BS

Manual Integrations  
 APPROVED

mohammad  
 12/9/2019 3:10:13 PM

Quant Time: Dec 09 09:54:35 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE120419.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 04 17:18:11 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.76  | 152  | 5510     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.54 | 136  | 24336    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.40 | 164  | 13837    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.12 | 188  | 33955    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.31 | 240  | 35009    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.75 | 264  | 44719    | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |        |      |    |      |
|-----------------------------|-------|-----|--------|------|----|------|
| 4) 2-Fluorophenol           | 5.38  | 112 | 3923   | 0.30 | ng | 0.00 |
| 5) Phenol-d6                | 6.93  | 99  | 4106   | 0.21 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.90  | 82  | 6558   | 0.57 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.14 | 152 | 12305m | 0.35 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.88 | 330 | 1067   | 0.69 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.03 | 172 | 19757  | 0.36 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.16 | 212 | 154751 | 0.39 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.76 | 244 | 35064  | 0.42 | ng | 0.00 |

#### Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.34  | 88  | 1672   | 0.166 | ng | # 4    |
| 3) n-Nitrosodimethylamine      | 3.64  | 42  | 1823   | 0.223 | ng | # 95   |
| 6) bis(2-Chloroethyl)ether     | 7.18  | 93  | 7059   | 0.370 | ng | 98     |
| 9) Naphthalene                 | 10.59 | 128 | 93146  | 0.360 | ng | 100    |
| 10) Hexachlorobutadiene        | 10.89 | 225 | 3106   | 0.308 | ng | 98     |
| 12) 2-Methylnaphthalene        | 12.21 | 142 | 14785  | 0.366 | ng | 100    |
| 16) Acenaphthylene             | 14.11 | 152 | 22277  | 0.389 | ng | 100    |
| 17) Acenaphthene               | 14.46 | 154 | 14025  | 0.355 | ng | 98     |
| 18) Fluorene                   | 15.43 | 166 | 19381  | 0.381 | ng | 96     |
| 20) 4-Bromophenyl-phenylether  | 16.33 | 248 | 7037   | 0.422 | ng | 97     |
| 21) Hexachlorobenzene          | 16.44 | 284 | 5702   | 0.315 | ng | 99     |
| 22) Pentachlorophenol          | 16.79 | 266 | 157    | 0.125 | ng | 95     |
| 23) Phenanthrene               | 17.16 | 178 | 37007  | 0.360 | ng | 100    |
| 24) Anthracene                 | 17.25 | 178 | 32291  | 0.375 | ng | 99     |
| 26) Fluoranthene               | 19.19 | 202 | 44889  | 0.366 | ng | 99     |
| 28) Pyrene                     | 19.55 | 202 | 47050  | 0.414 | ng | 99     |
| 30) Benzo(a)anthracene         | 21.29 | 228 | 45242  | 0.438 | ng | 99     |
| 31) Chrysene                   | 21.34 | 228 | 45135  | 0.372 | ng | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 21.25 | 149 | 128574 | 1.453 | ng | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.32 | 276 | 49762  | 0.471 | ng | 99     |
| 35) Benzo(b)fluoranthene       | 23.00 | 252 | 44949  | 0.367 | ng | 99     |
| 36) Benzo(k)fluoranthene       | 23.05 | 252 | 49011m | 0.357 | ng |        |
| 37) Benzo(a)pyrene             | 23.64 | 252 | 42724  | 0.403 | ng | 99     |
| 38) Dibenzo(a,h)anthracene     | 26.36 | 278 | 41006  | 0.389 | ng | 98     |
| 39) Benzo(g,h,i)perylene       | 27.11 | 276 | 42631  | 0.378 | ng | 99     |

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

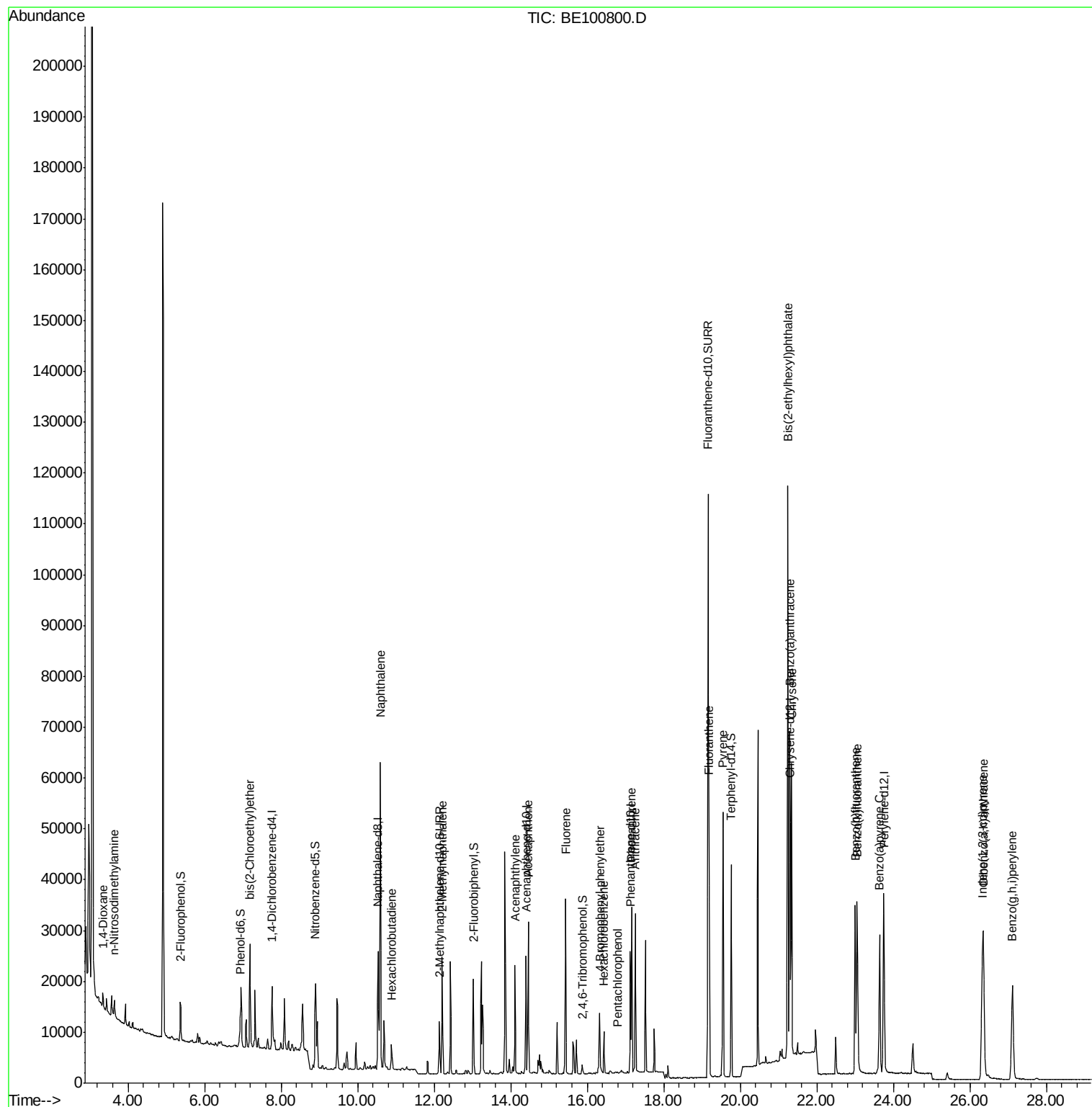
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE120619\  
Data File : BE100800.D  
Acq On : 6 Dec 2019 10:33  
Operator : JU  
Sample : PB125273BS  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

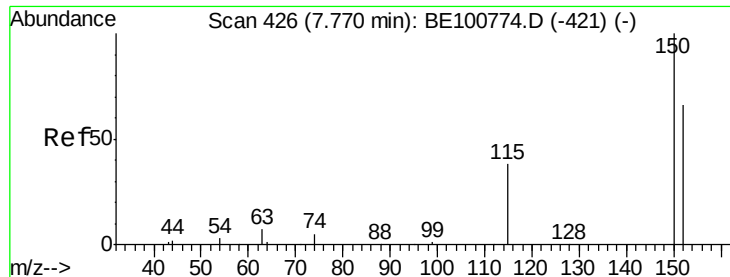
Instrument :  
BNA\_E  
ClientSampleId :  
PB125273BS

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Quant Time: Dec 09 09:54:35 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE120419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 04 17:18:11 2019  
Response via : Initial Calibration





#1

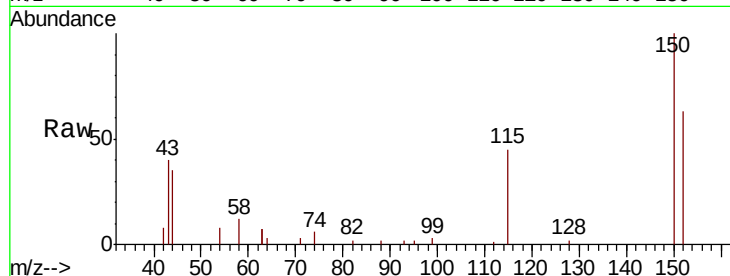
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.76 min Scan# 425  
Delta R.T. -0.01 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

Instrument :  
BNA\_E  
ClientSampleId :  
PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.7 | 120.6 | 181.0 |
| 115     | 71.0  | 47.4  | 71.2  |

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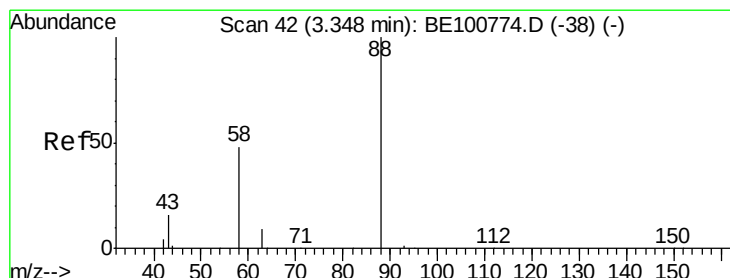
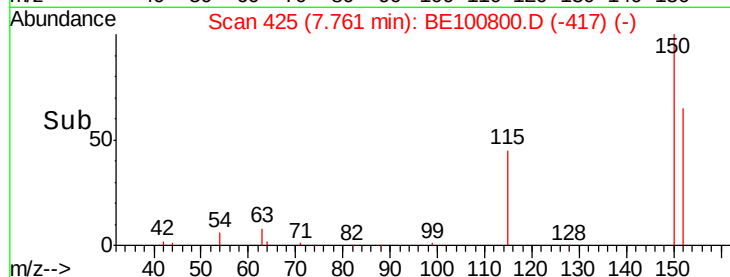
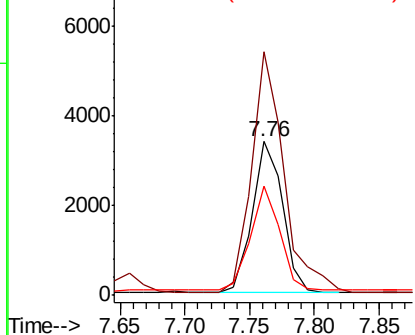


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

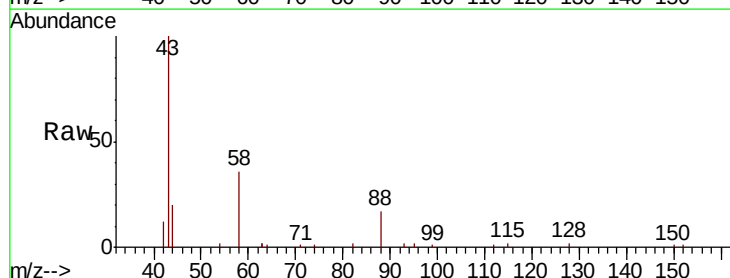
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane  
Concen: 0.166 ng  
RT: 3.34 min Scan# 41  
Delta R.T. -0.01 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 89.1  | 52.5  | 78.7# |
| 43      | 160.4 | 23.0  | 34.6# |

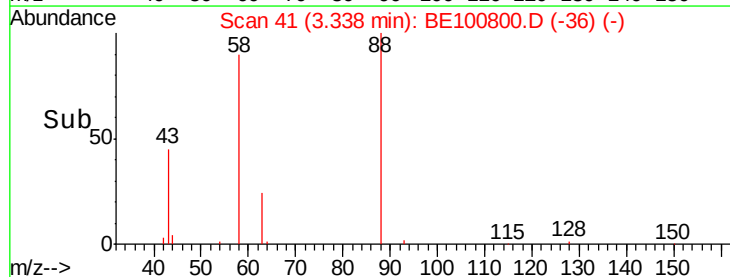
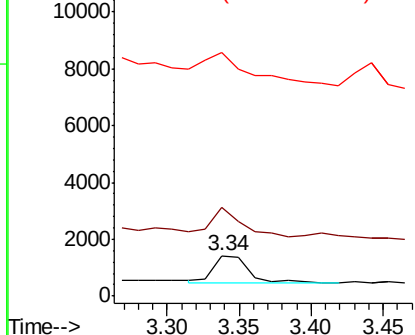


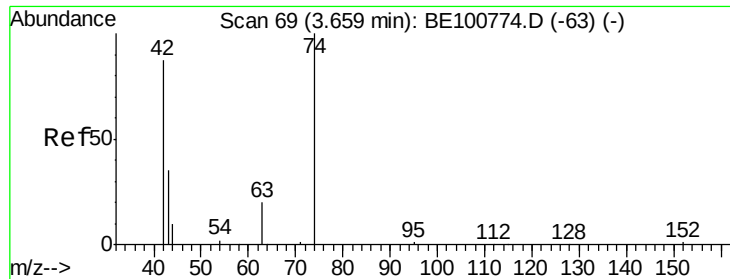
Abundance

Ion 88.00 (87.70 to 88.70): BE1

Ion 58.00 (57.70 to 58.70): BE1

Ion 43.00 (42.70 to 43.70): BE1





#3

n-Nitrosodimethylamine

Concen: 0.223 ng

RT: 3.64 min Scan# 67

Delta R.T. -0.02 min

Lab File: BE100800.D

Acq: 6 Dec 2019 10:33

Instrument :

BNA\_E

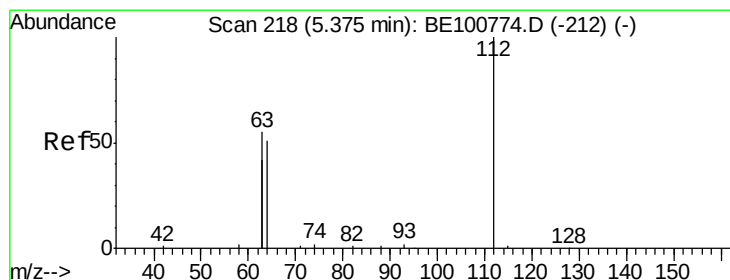
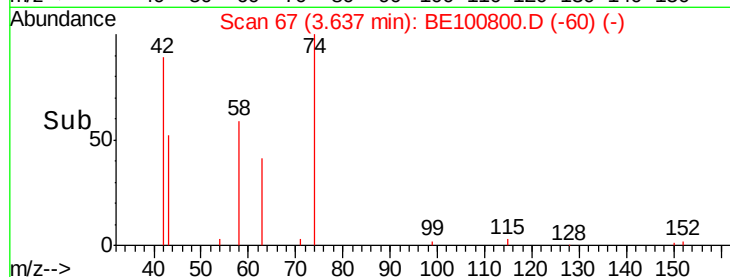
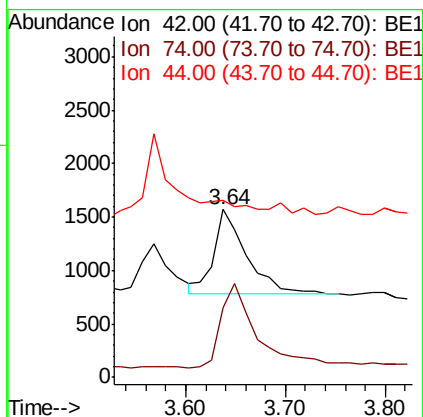
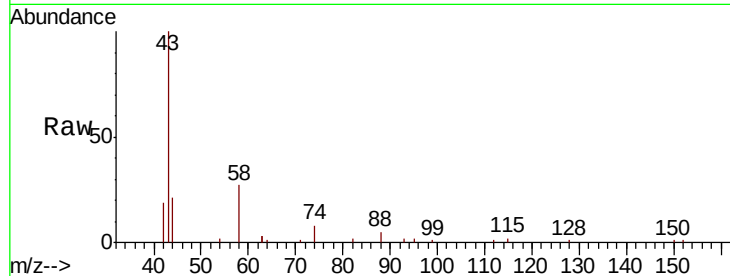
ClientSampleId :

PB125273BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 1823  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 107.0 | 86.3  | 129.5 |
| 44       | 0.0   | 11.6  | 17.4# |

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#4

2-Fluorophenol

Concen: 0.300 ng

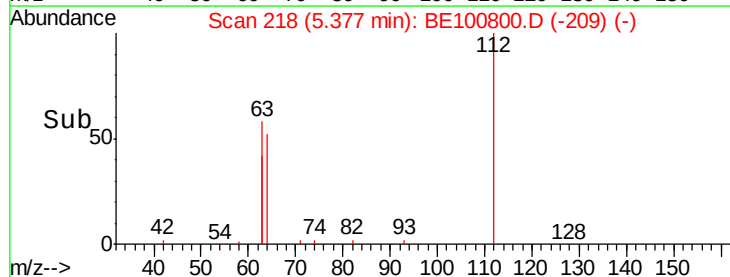
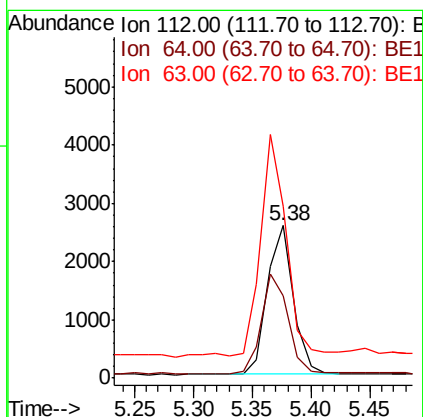
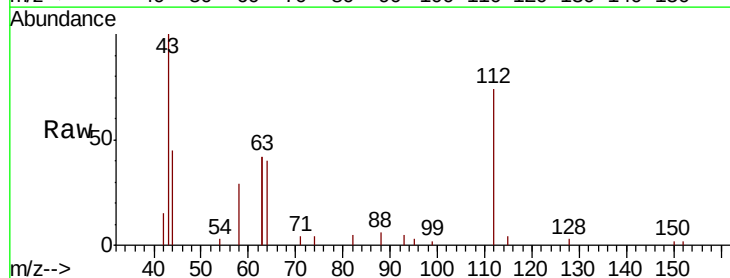
RT: 5.38 min Scan# 218

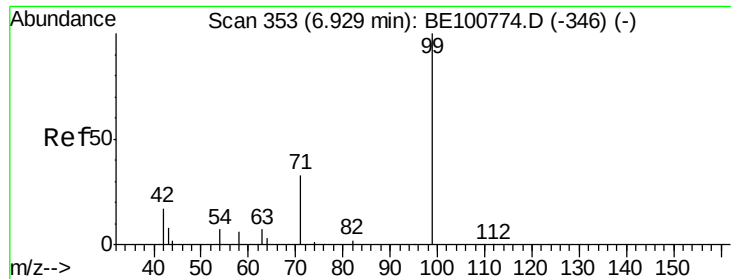
Delta R.T. 0.00 min

Lab File: BE100800.D

Acq: 6 Dec 2019 10:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 3923  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 68.8  | 54.1  | 81.1  |
| 63       | 144.3 | 113.2 | 169.8 |





#5

Phenol-d6

Concen: 0.208 ng

RT: 6.93 min Scan# 353

Delta R.T. 0.00 min

Lab File: BE100800.D

Acq: 6 Dec 2019 10:33

Instrument :

BNA\_E

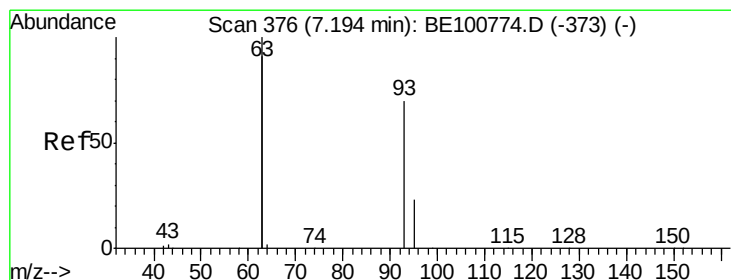
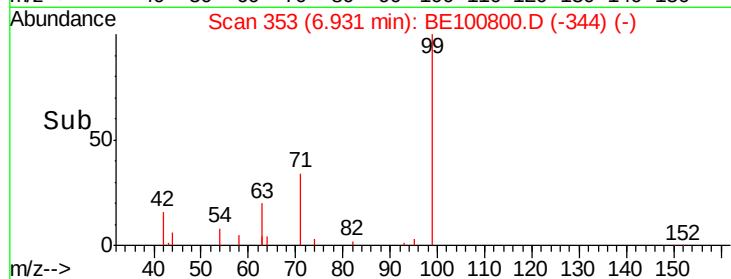
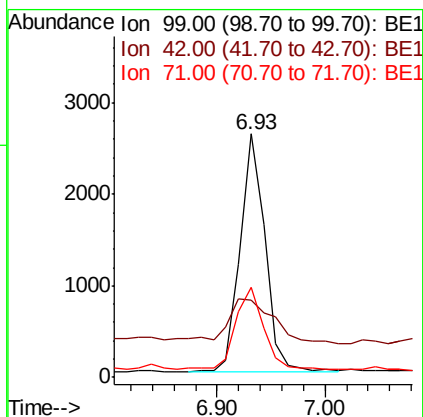
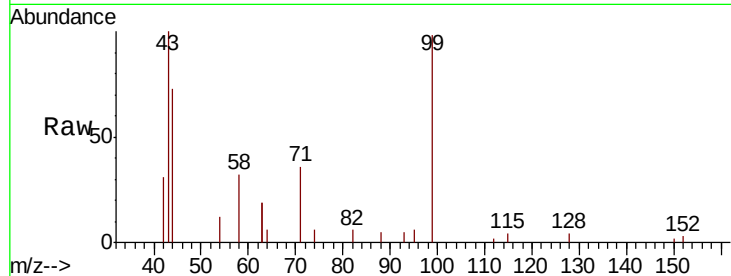
ClientSampleId :

PB125273BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 4106  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 35.8  | 19.1  | 28.7# |
| 71       | 37.9  | 27.7  | 41.5  |

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#6

bis(2-Chloroethyl)ether

Concen: 0.370 ng

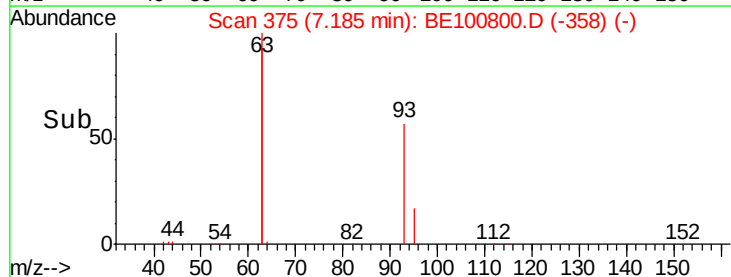
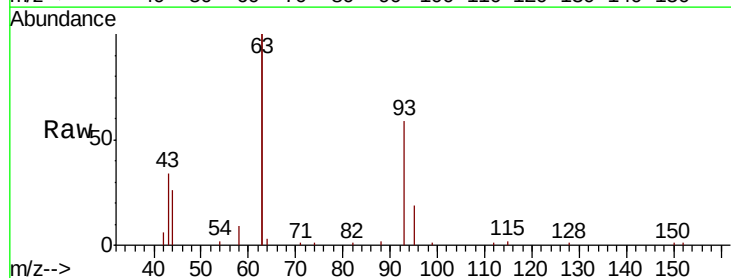
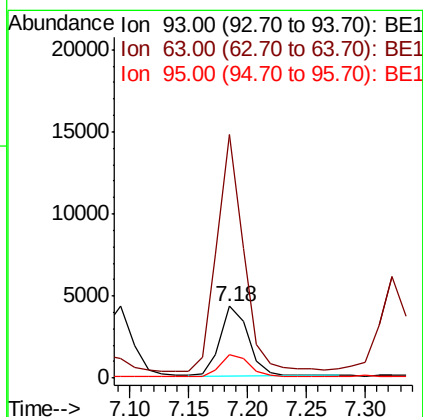
RT: 7.18 min Scan# 375

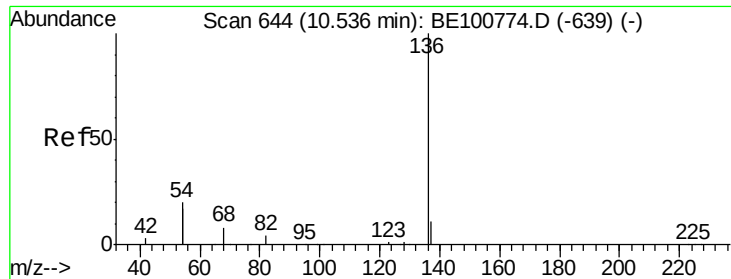
Delta R.T. -0.01 min

Lab File: BE100800.D

Acq: 6 Dec 2019 10:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 7059  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 319.9 | 259.4 | 389.0 |
| 95       | 32.5  | 26.2  | 39.2  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.54 min Scan# 644

Delta R.T. 0.00 min

Lab File: BE100800.D

Acq: 6 Dec 2019 10:33

Instrument :

BNA\_E

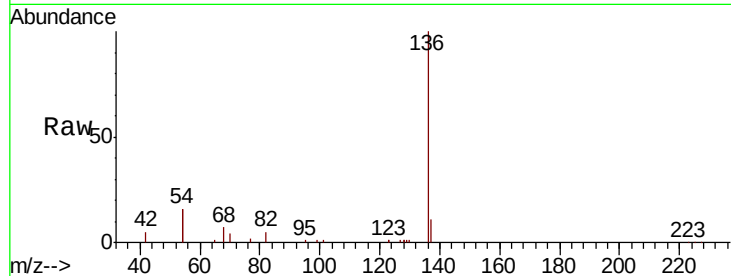
ClientSampleId :

PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.9  | 9.4   | 14.0  |
| 54      | 32.5  | 31.1  | 46.7  |
| 68      | 7.4   | 6.6   | 10.0  |

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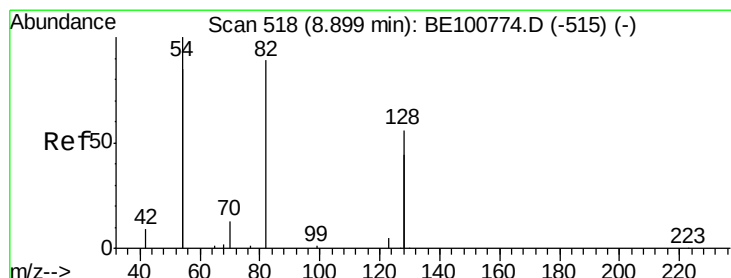
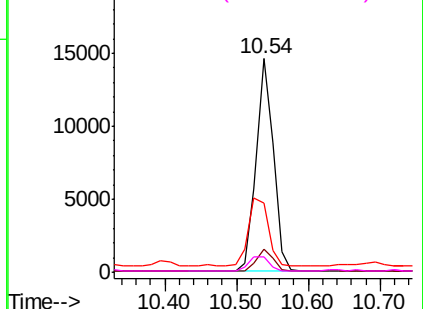
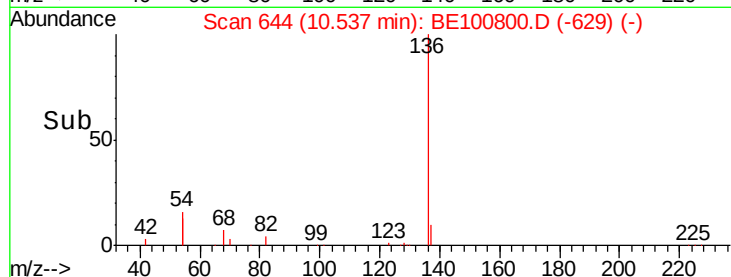


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.566 ng

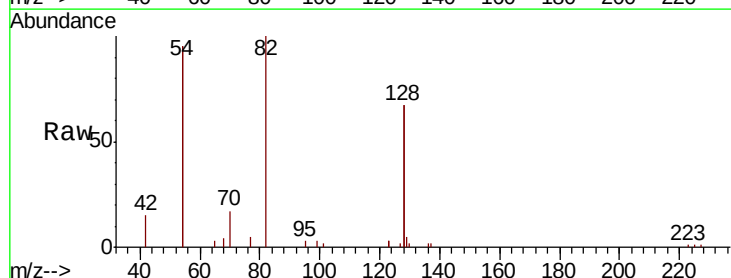
RT: 8.90 min Scan# 518

Delta R.T. 0.00 min

Lab File: BE100800.D

Acq: 6 Dec 2019 10:33

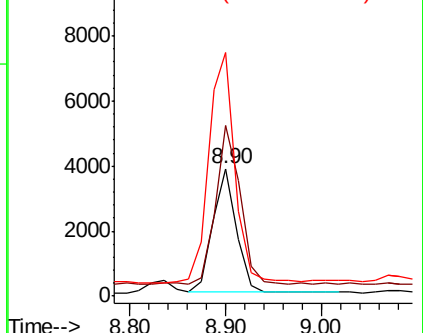
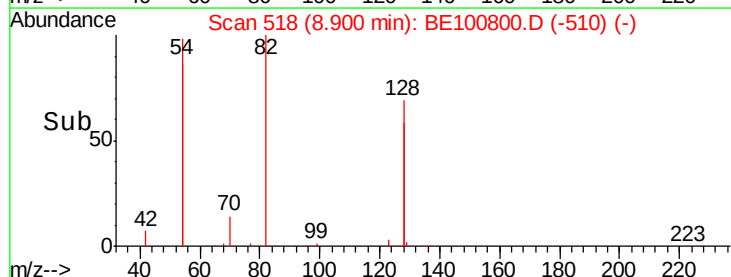
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 133.8 | 97.0  | 145.4 |
| 54      | 190.8 | 171.8 | 257.6 |

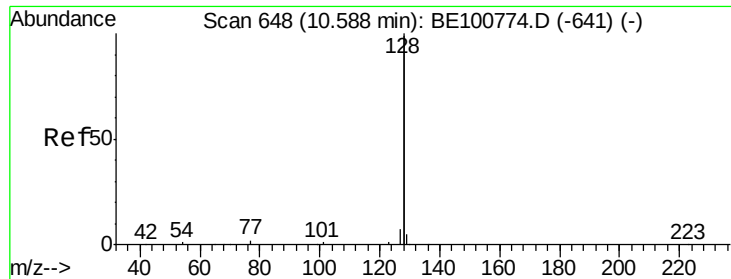


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.360 ng

RT: 10.59 min Scan# 648

Delta R.T. 0.00 min

Lab File: BE100800.D

Acq: 6 Dec 2019 10:33

Instrument :

BNA\_E

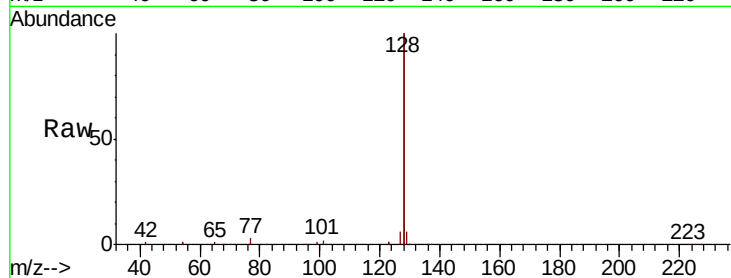
ClientSampleId :

PB125273BS

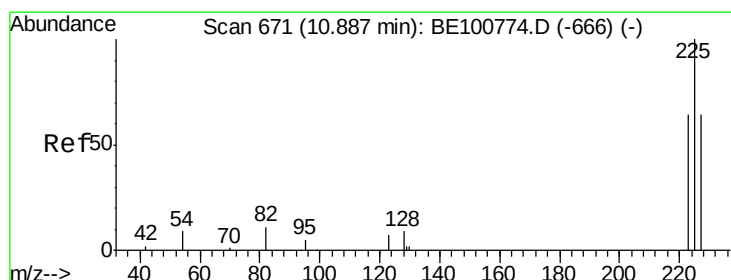
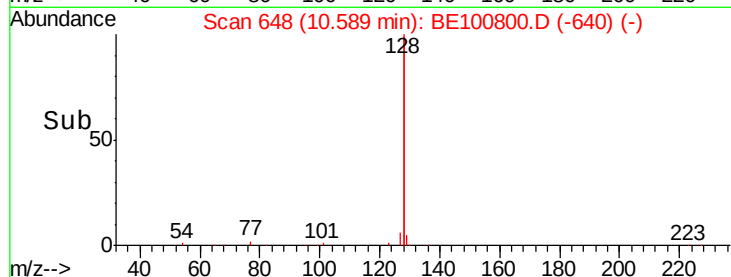
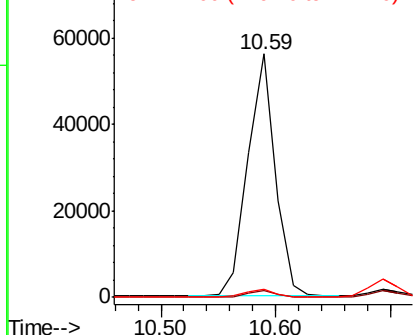
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 93146 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 2.8   | 2.2   | 3.4   |
| 127       | 3.2   | 2.7   | 4.1   |

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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.308 ng

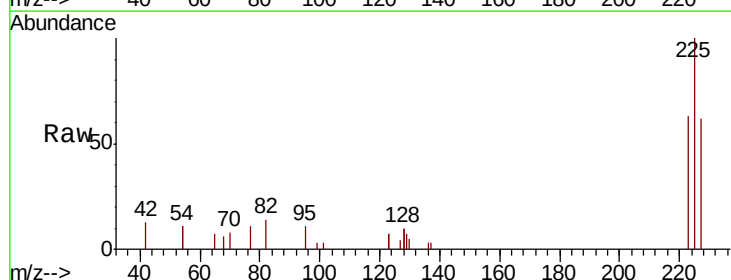
RT: 10.89 min Scan# 671

Delta R.T. 0.00 min

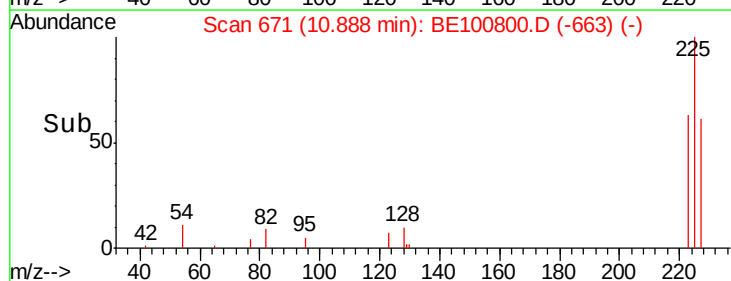
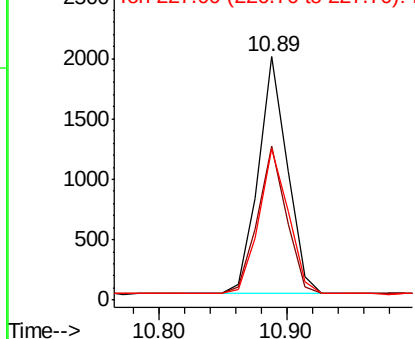
Lab File: BE100800.D

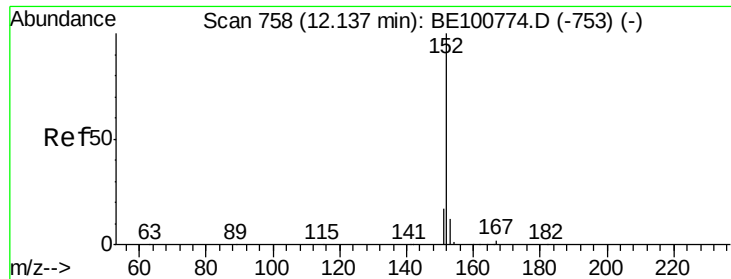
Acq: 6 Dec 2019 10:33

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 3106 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 62.2  | 49.9  | 74.9 |
| 227       | 62.6  | 52.2  | 78.4 |



Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E





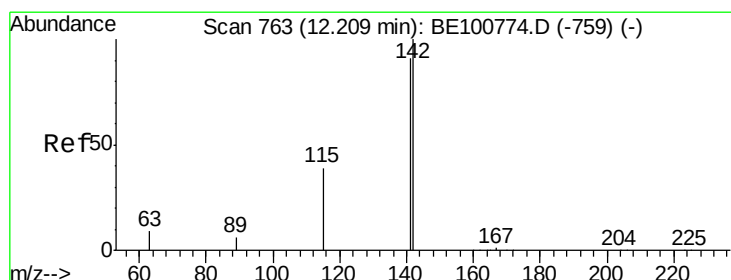
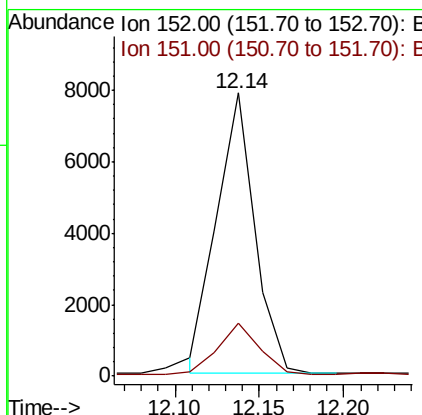
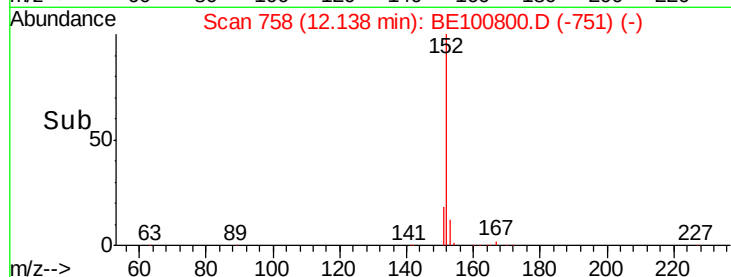
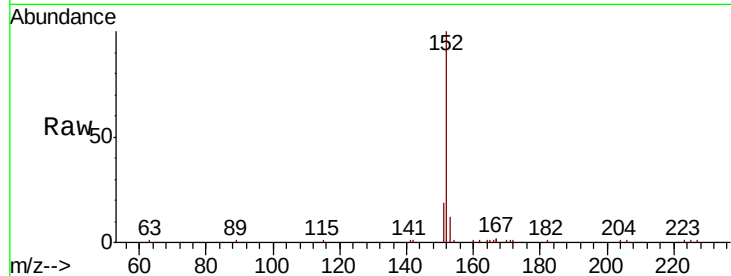
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.349 ng m  
 RT: 12.14 min Scan# 758  
 Delta R.T. 0.00 min  
 Lab File: BE100800.D  
 Acq: 6 Dec 2019 10:33

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 15.8  | 23.8  |

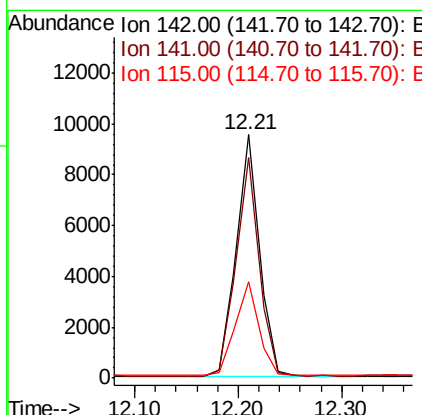
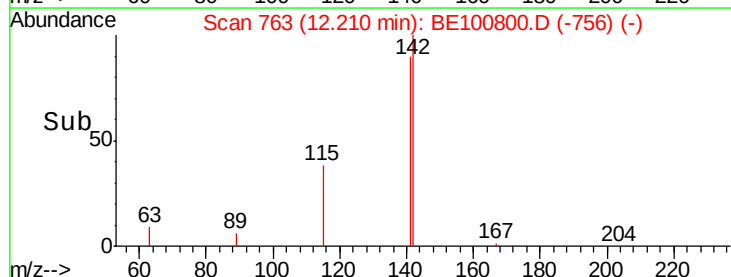
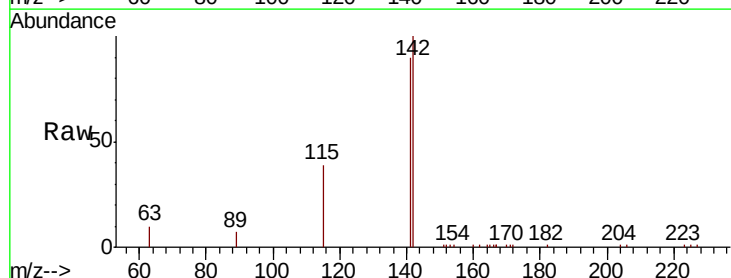
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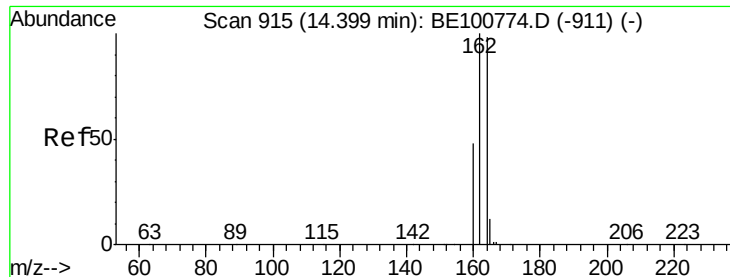


#12  
 2-Methylnaphthalene  
 Concen: 0.366 ng  
 RT: 12.21 min Scan# 763  
 Delta R.T. 0.00 min  
 Lab File: BE100800.D  
 Acq: 6 Dec 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.4  | 72.6  | 108.8 |
| 115     | 39.4  | 31.8  | 47.6  |







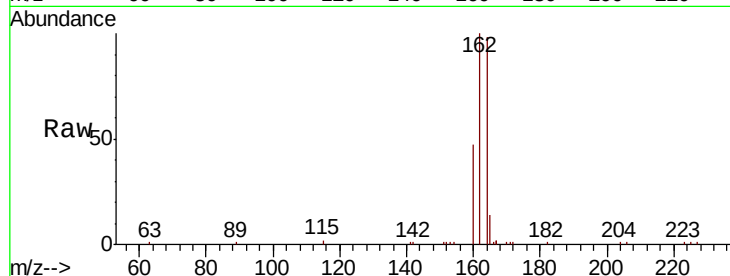
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.40 min Scan# 915  
Delta R.T. 0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

Instrument :  
BNA\_E  
ClientSampleId :  
PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.8 | 81.4  | 122.0 |
| 160     | 48.0  | 39.4  | 59.0  |

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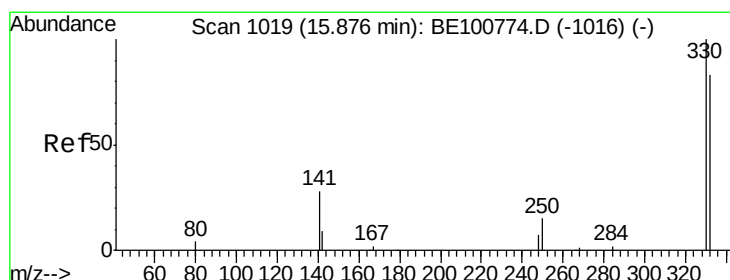
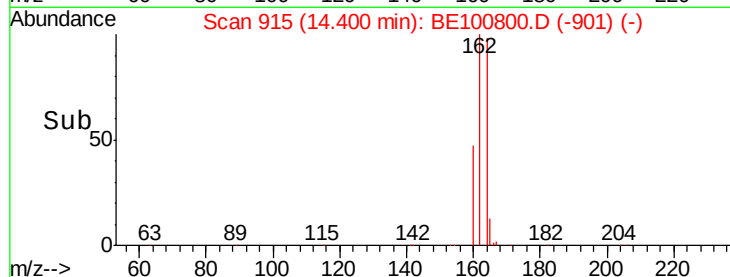
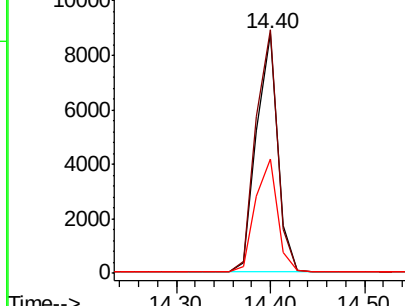


Abundance

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: 0.693 ng  
RT: 15.88 min Scan# 1019  
Delta R.T. -0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

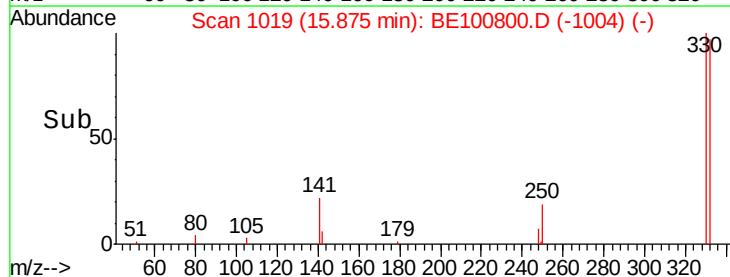
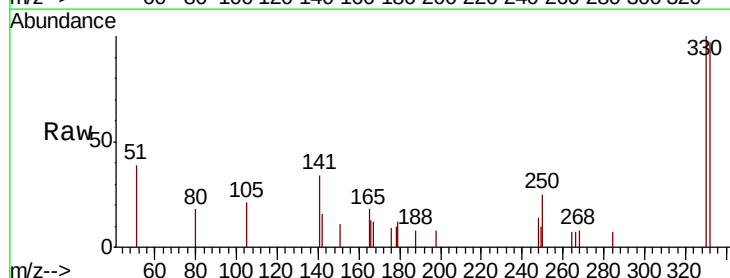
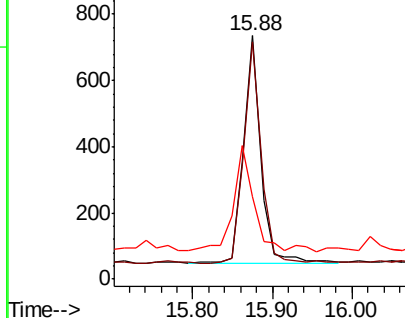
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 69.4  | 104.2 |
| 141     | 56.5  | 51.1  | 76.7  |

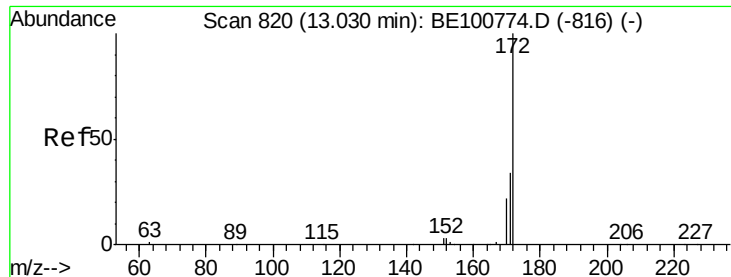
Abundance

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





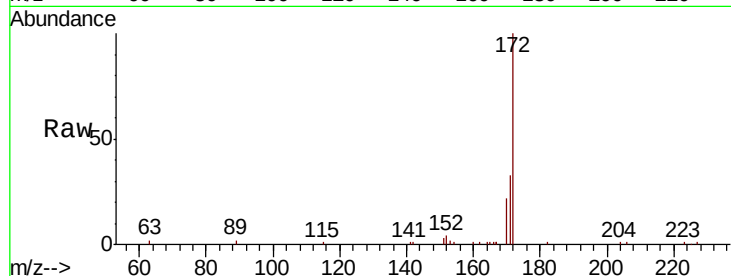
#15  
2-Fluorobiphenyl  
Concen: 0.360 ng  
RT: 13.03 min Scan# 820  
Delta R.T. 0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

Instrument :  
BNA\_E  
ClientSampled :  
PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 32.7  | 27.2  | 40.8  |
| 170     | 22.0  | 18.0  | 27.0  |

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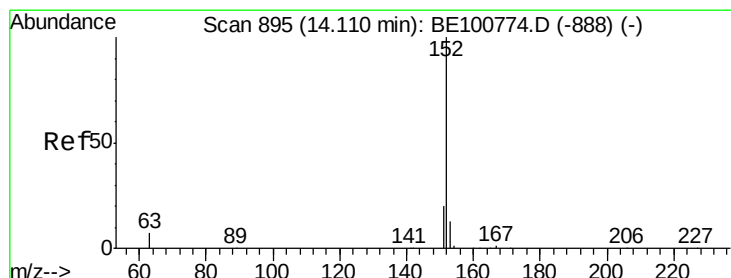
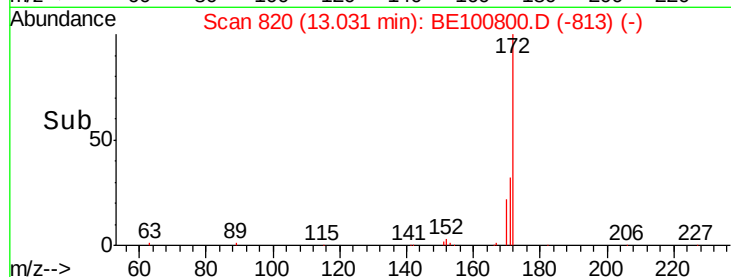
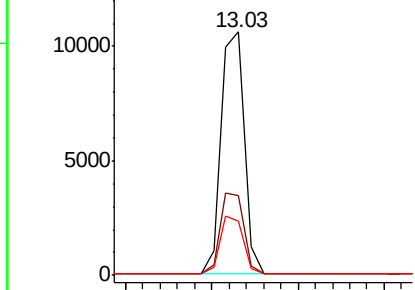


Abundance

Ion 172.00 (171.70 to 172.70): E

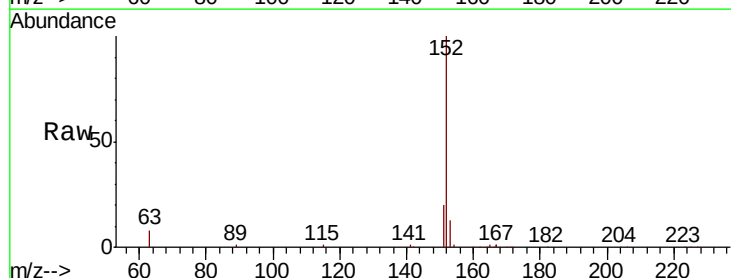
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16  
Acenaphthylene  
Concen: 0.389 ng  
RT: 14.11 min Scan# 895  
Delta R.T. 0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 15.8  | 23.6  |
| 153     | 13.1  | 10.4  | 15.6  |

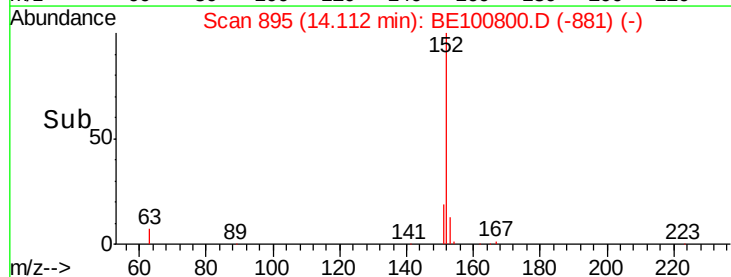
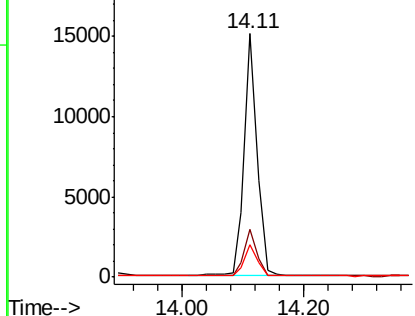


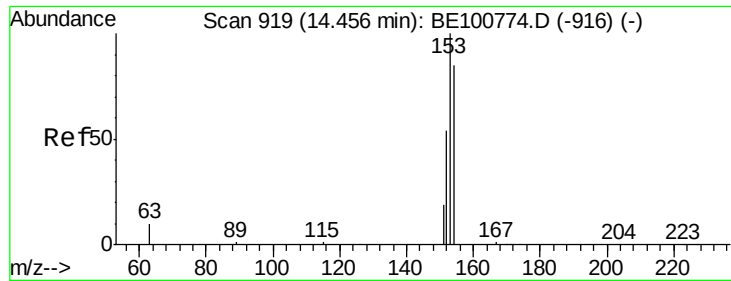
Abundance

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





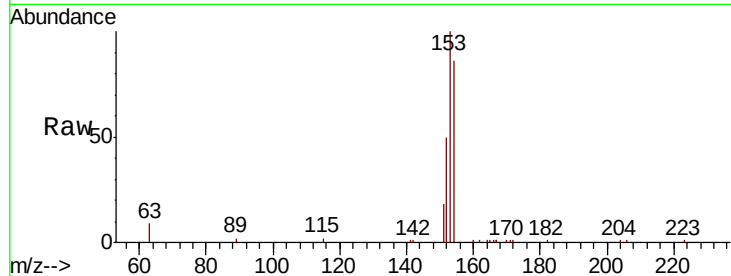
#17  
Acenaphthene  
Concen: 0.355 ng  
RT: 14.46 min Scan# 919  
Delta R.T. 0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

Instrument :  
BNA\_E  
ClientSampleId :  
PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 114.9 | 92.2  | 138.2 |
| 152     | 58.3  | 49.1  | 73.7  |

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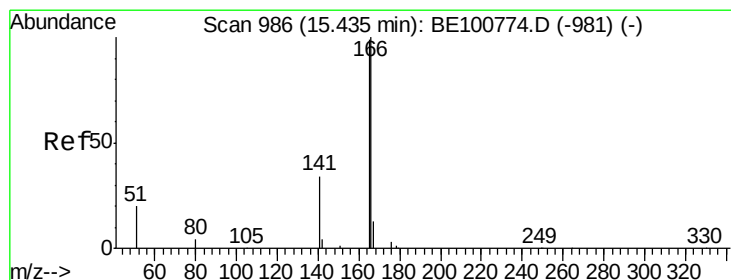
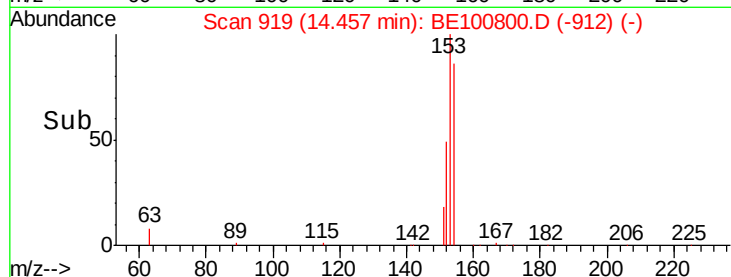
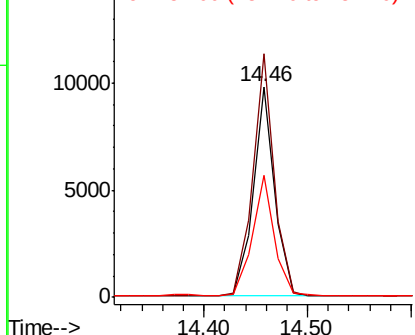


Abundance

Ion 154.00 (153.70 to 154.70): E

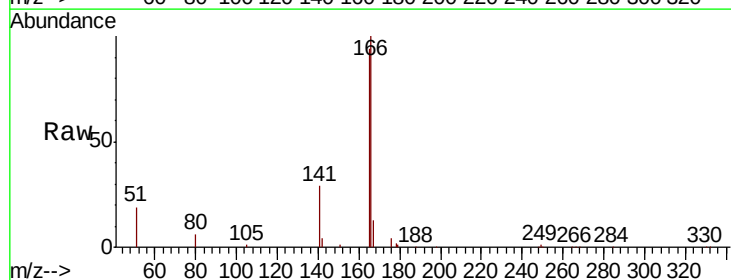
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18  
Fluorene  
Concen: 0.381 ng  
RT: 15.43 min Scan# 986  
Delta R.T. -0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.0  | 80.5  | 120.7 |
| 167     | 13.4  | 10.7  | 16.1  |

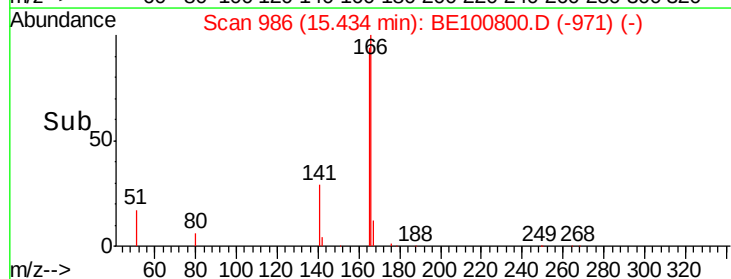
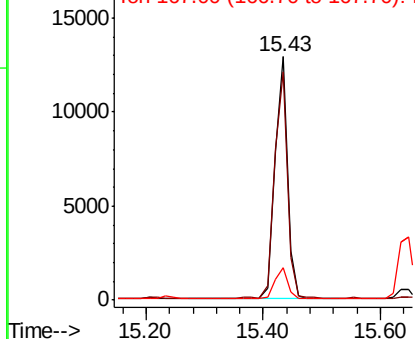


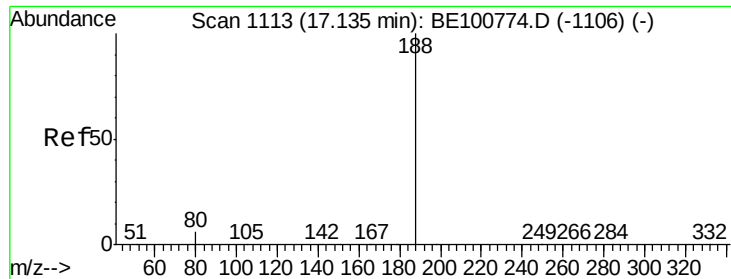
Abundance

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





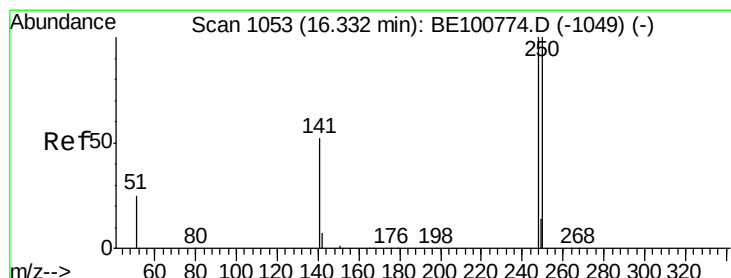
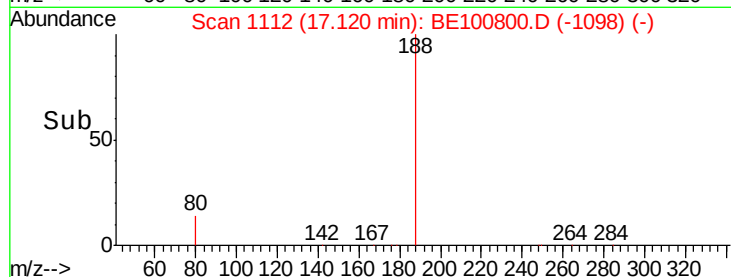
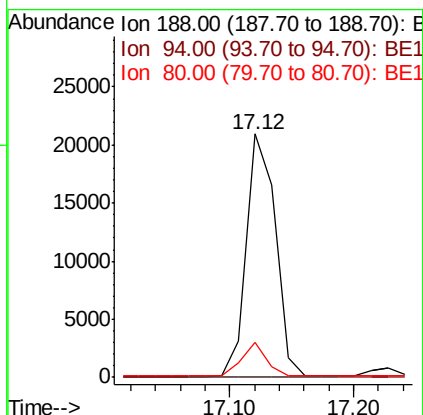
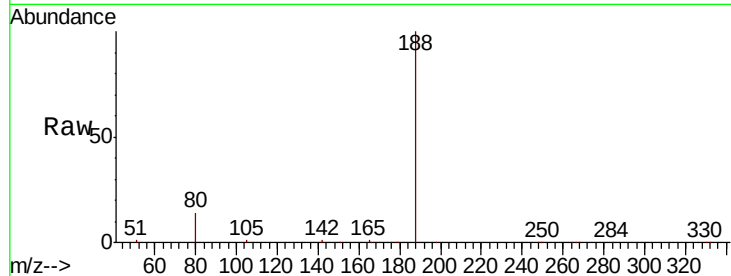
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.12 min Scan# 1112  
Delta R.T. -0.01 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

Instrument :  
BNA\_E  
ClientSampleId :  
PB125273BS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 0.0   | 0.0        | 0.0   |
| 80      | 14.3  | 5.2        | 7.8#  |

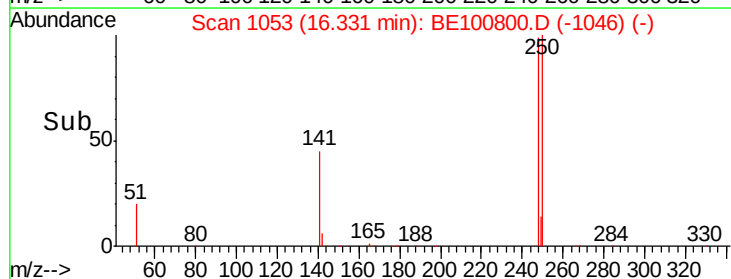
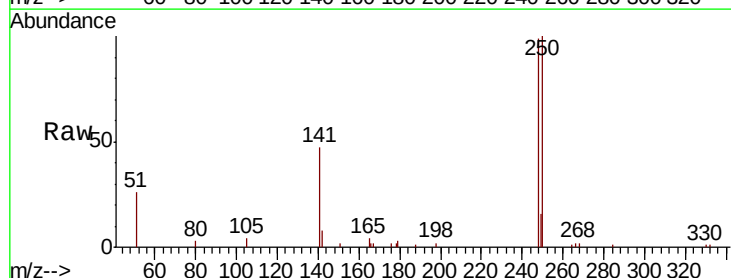
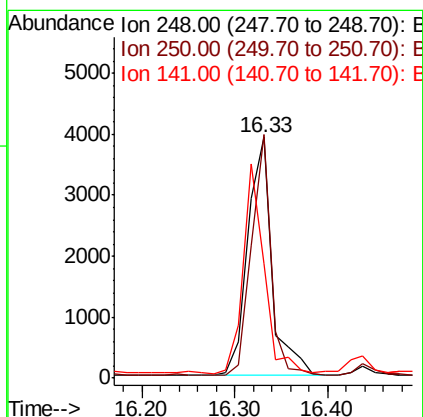
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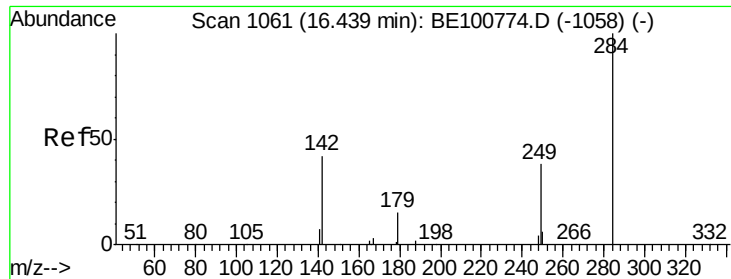
mohammad  
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#20  
4-Bromophenyl-phenylether  
Concen: 0.422 ng  
RT: 16.33 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 248     | 100   |            |       |
| 250     | 101.0 | 80.5       | 120.7 |
| 141     | 47.5  | 42.6       | 64.0  |





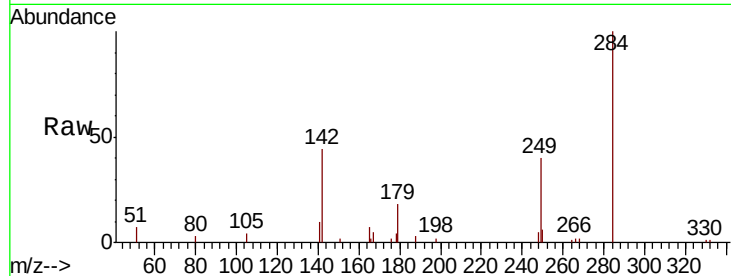
#21  
Hexachlorobenzene  
Concen: 0.315 ng  
RT: 16.44 min Scan# 1061  
Delta R.T. -0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

Instrument :  
BNA\_E  
ClientSampleId :  
PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 43.0  | 34.4  | 51.6  |
| 249     | 35.0  | 28.5  | 42.7  |

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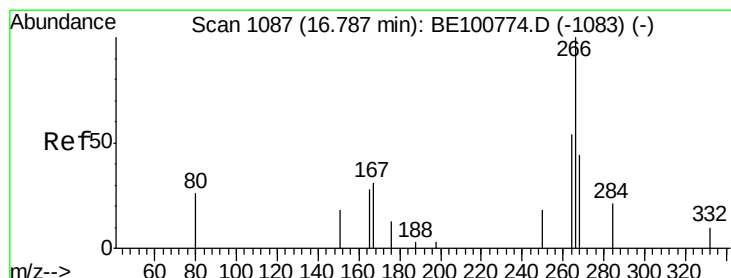
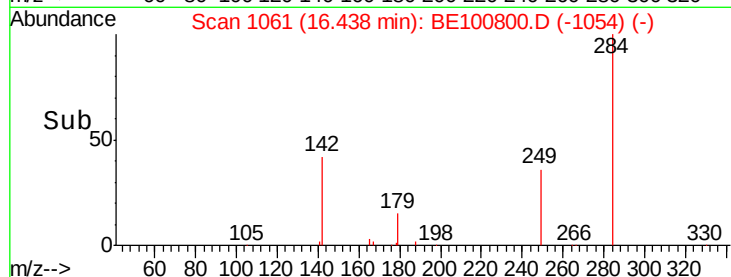
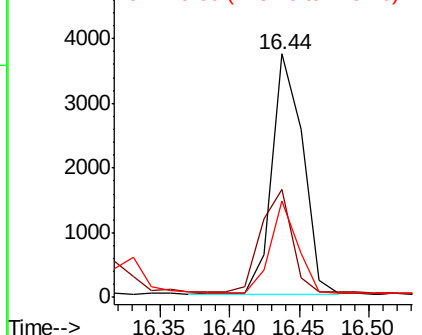


Abundance

Ion 283.80 (283.50 to 284.50): E

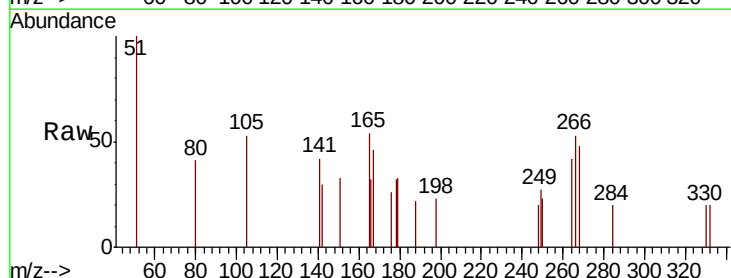
Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22  
Pentachlorophenol  
Concen: 0.125 ng  
RT: 16.79 min Scan# 1087  
Delta R.T. -0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 79.7  | 63.4  | 95.0  |
| 268     | 90.9  | 65.8  | 98.8  |

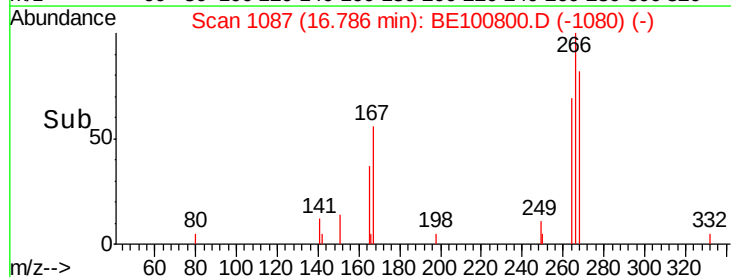
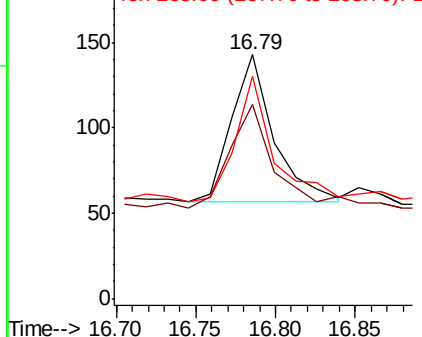


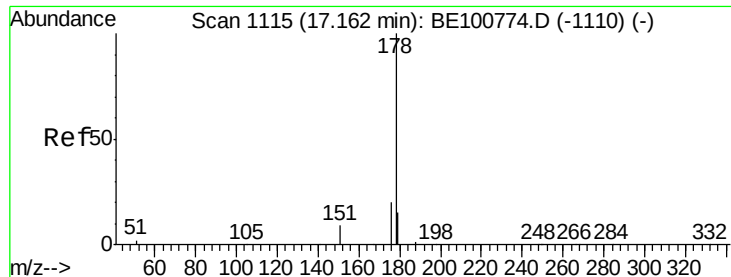
Abundance

Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





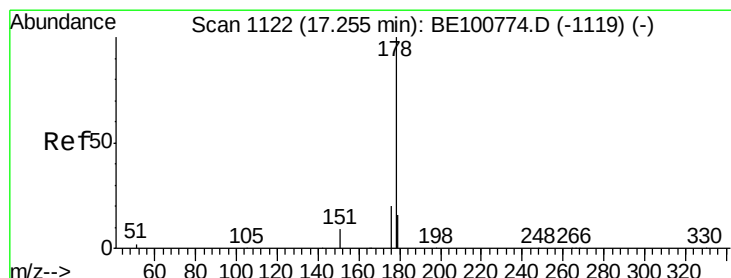
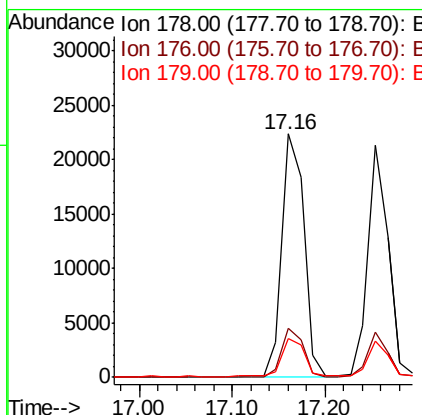
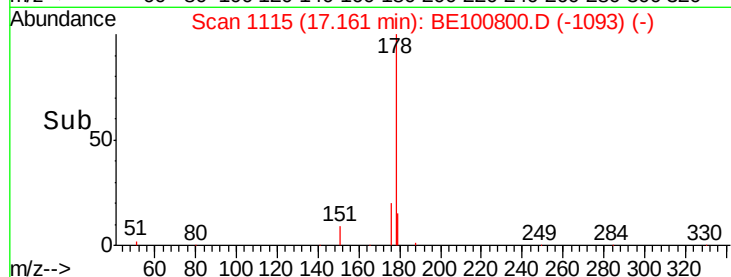
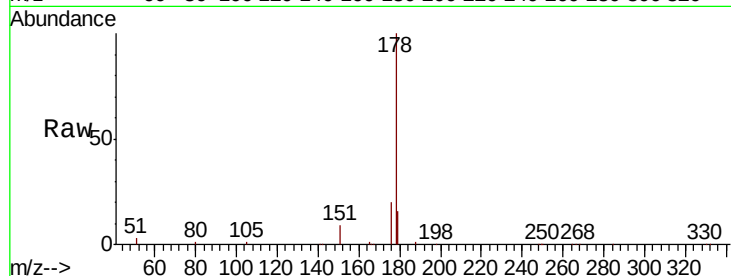
#23  
Phenanthrene  
Concen: 0.360 ng  
RT: 17.16 min Scan# 1115  
Delta R.T. -0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

Instrument :  
BNA\_E  
ClientSampleId :  
PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.3  | 15.5  | 23.3  |
| 179     | 15.7  | 12.3  | 18.5  |

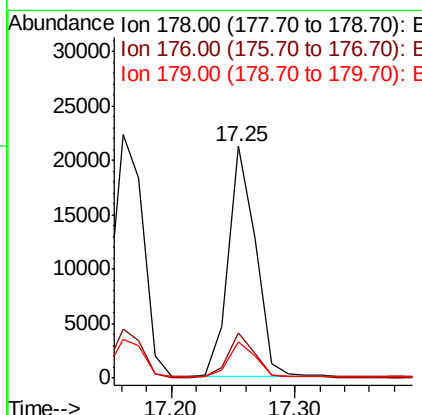
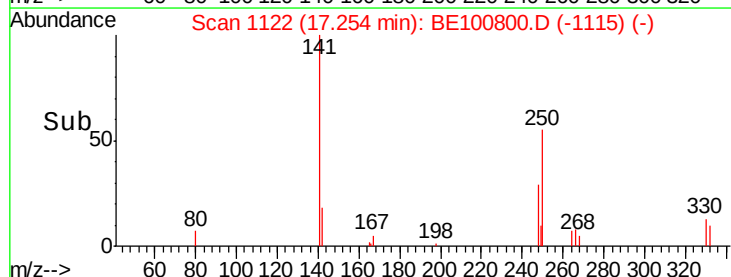
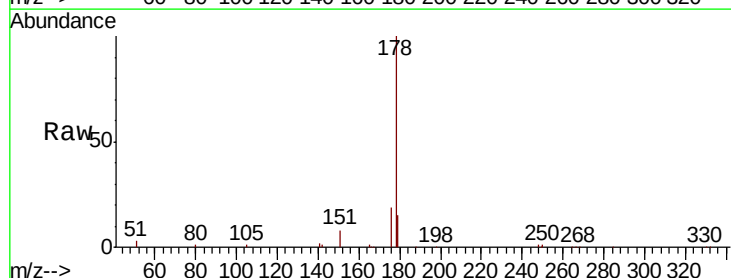
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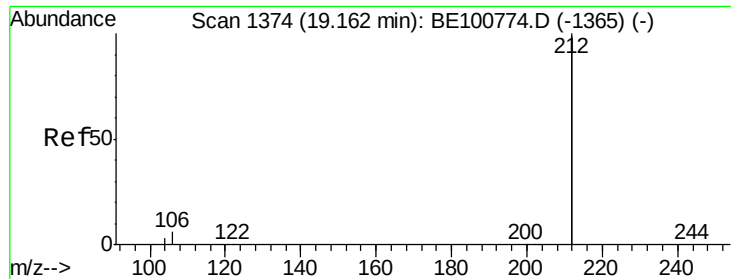
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#24  
Anthracene  
Concen: 0.375 ng  
RT: 17.25 min Scan# 1122  
Delta R.T. -0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.7  | 15.4  | 23.2  |
| 179     | 15.3  | 12.7  | 19.1  |





#25

Fluoranthene-d10

Concen: 0.386 ng

RT: 19.16 min Scan# 1374

Delta R.T. -0.00 min

Lab File: BE100800.D

Acq: 6 Dec 2019 10:33

Instrument :

BNA\_E

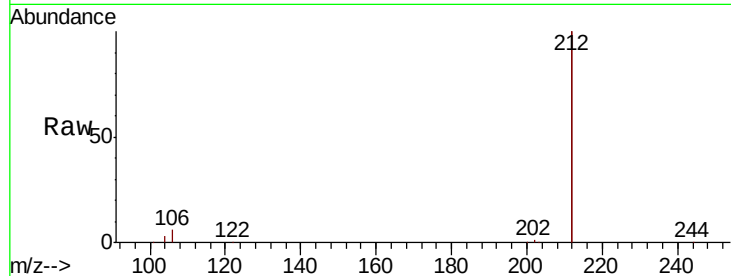
ClientSampleId :

PB125273BS

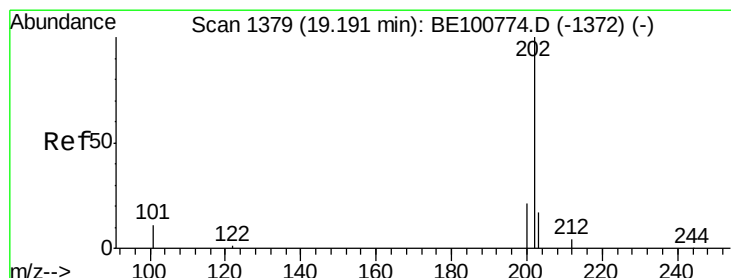
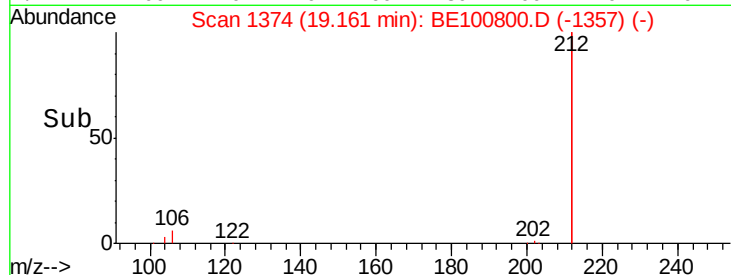
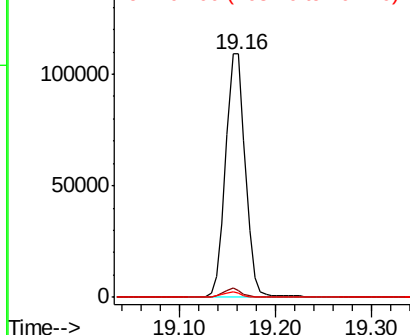
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 212   | Resp: | 154751 |
| Ion Ratio | Lower | Upper |        |
| 212       | 100   |       |        |
| 106       | 3.3   | 2.6   | 3.8    |
| 104       | 1.9   | 1.4   | 2.2    |

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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: 0.366 ng

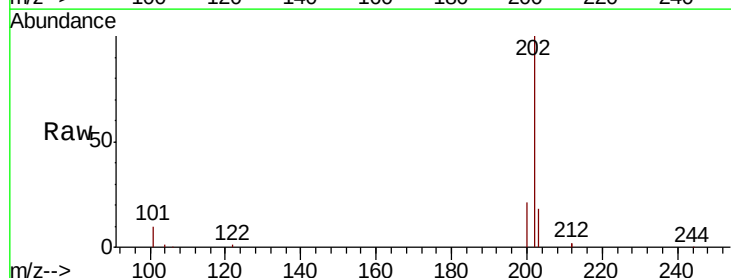
RT: 19.19 min Scan# 1379

Delta R.T. -0.00 min

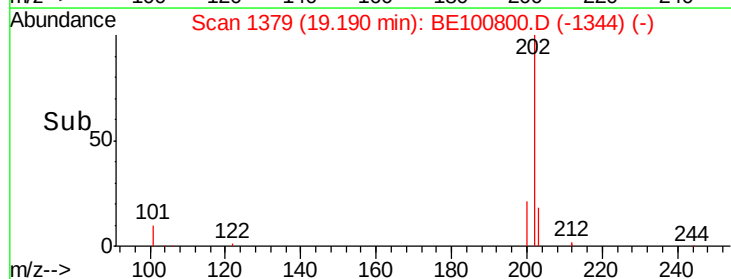
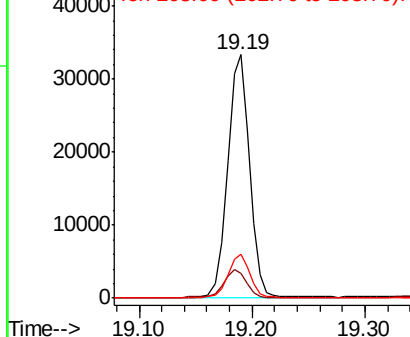
Lab File: BE100800.D

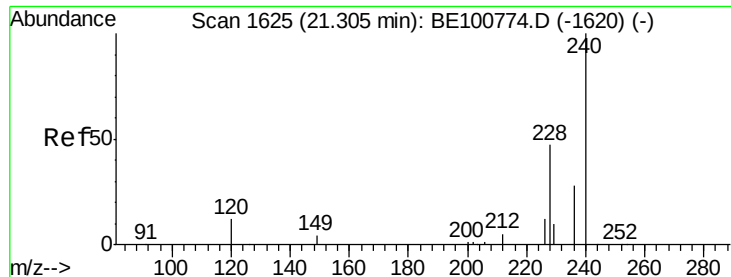
Acq: 6 Dec 2019 10:33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 44889 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.6  | 9.1   | 13.7  |
| 203       | 17.5  | 13.8  | 20.6  |



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: 21.31 min Scan# 1625

Delta R.T. 0.00 min

Lab File: BE100800.D

Acq: 6 Dec 2019 10:33

Instrument :

BNA\_E

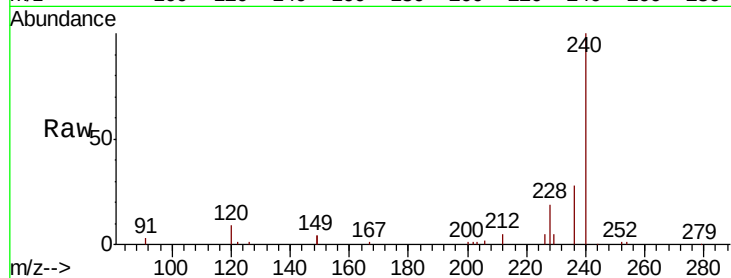
ClientSampleId :

PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 8.6   | 10.2  | 15.2# |
| 236     | 27.6  | 22.3  | 33.5  |

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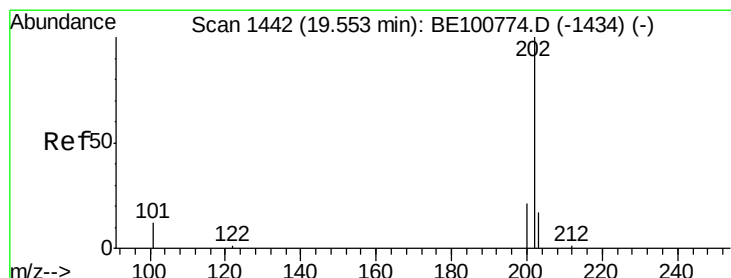
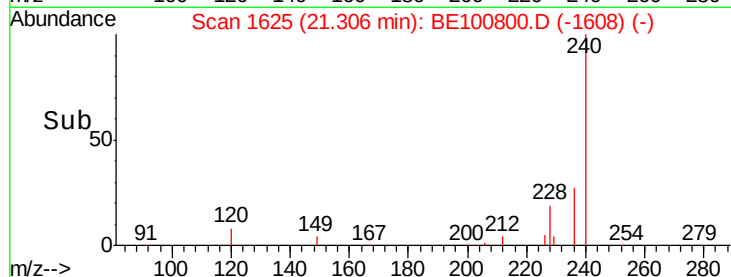
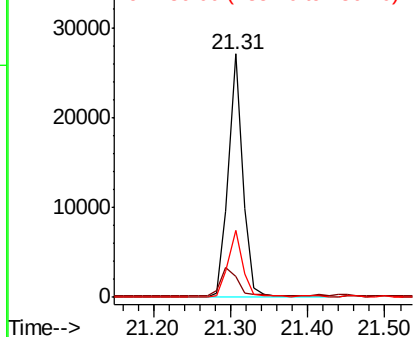


Abundance

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: 0.414 ng

RT: 19.55 min Scan# 1441

Delta R.T. -0.01 min

Lab File: BE100800.D

Acq: 6 Dec 2019 10:33

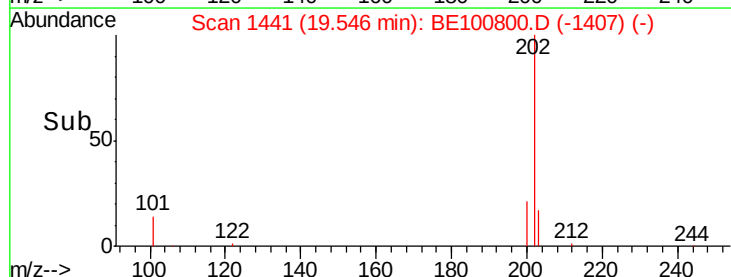
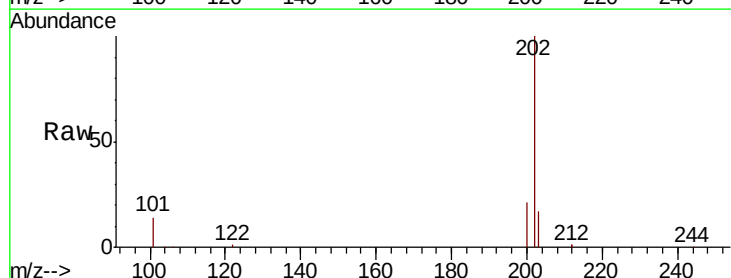
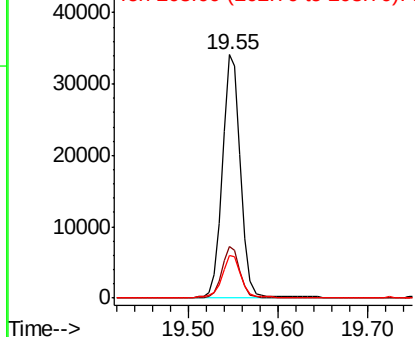
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 17.0  | 25.4  |
| 203     | 17.9  | 13.9  | 20.9  |

Abundance

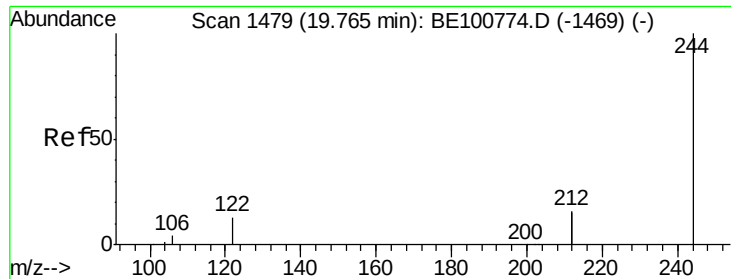
Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







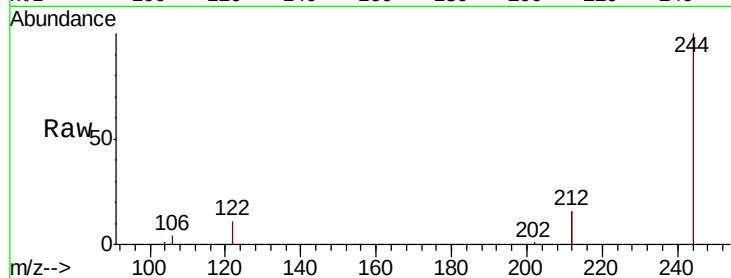
#29  
 Terphenyl-d14  
 Concen: 0.418 ng  
 RT: 19.76 min Scan# 1479  
 Delta R.T. -0.00 min  
 Lab File: BE100800.D  
 Acq: 6 Dec 2019 10:33

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 32.2  | 26.2  | 39.4  |
| 122     | 11.4  | 10.2  | 15.4  |

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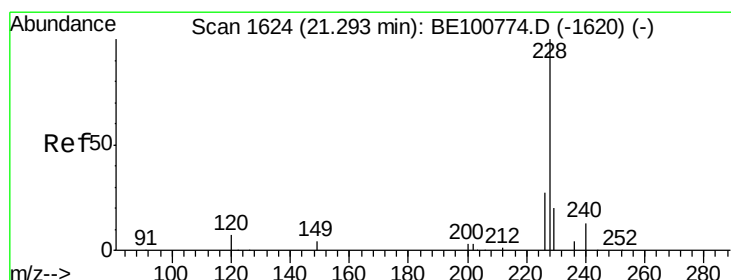
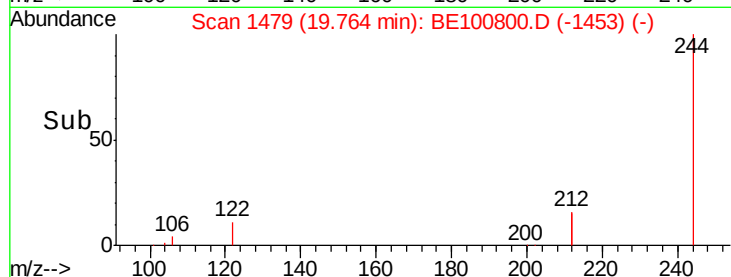
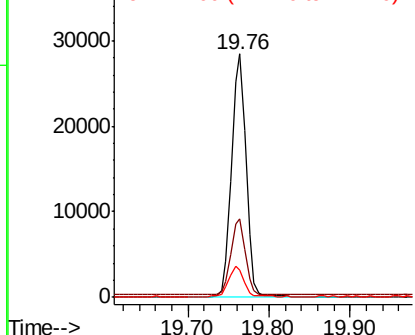


Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30  
 Benzo(a)anthracene  
 Concen: 0.438 ng  
 RT: 21.29 min Scan# 1624  
 Delta R.T. 0.00 min  
 Lab File: BE100800.D  
 Acq: 6 Dec 2019 10:33

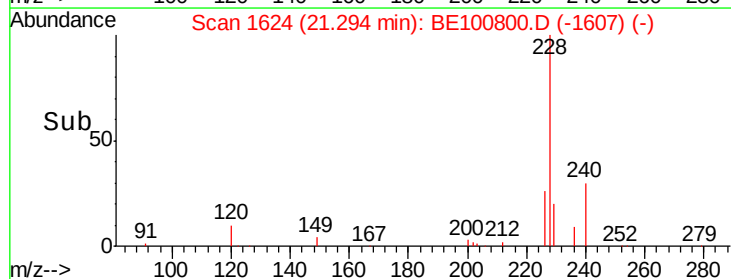
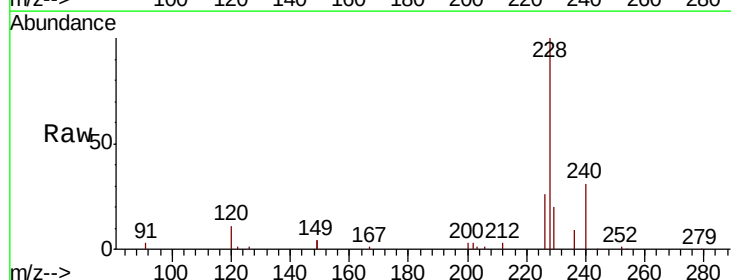
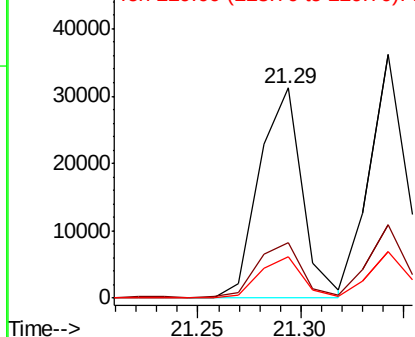
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.3  | 21.5  | 32.3  |
| 229     | 20.0  | 16.0  | 24.0  |

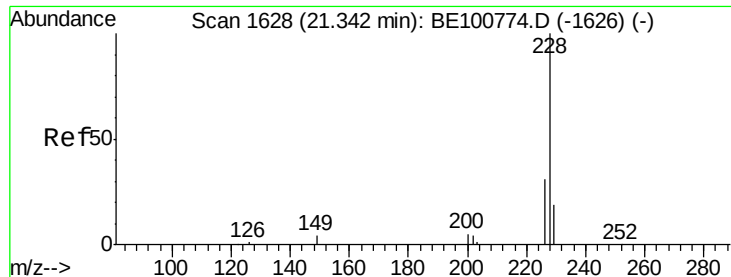
Abundance

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





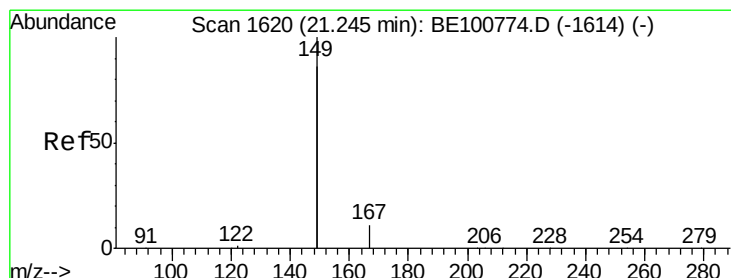
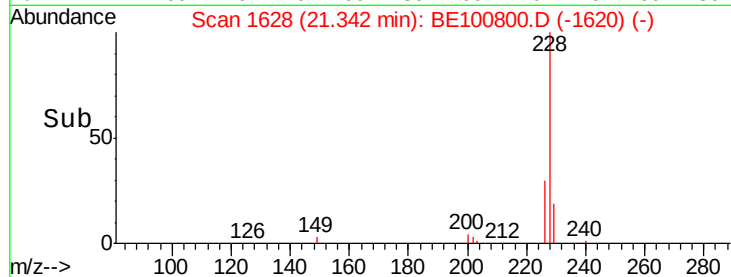
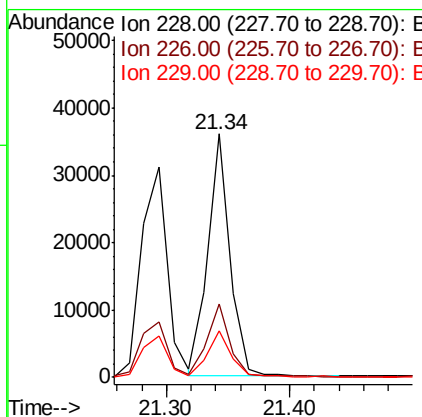
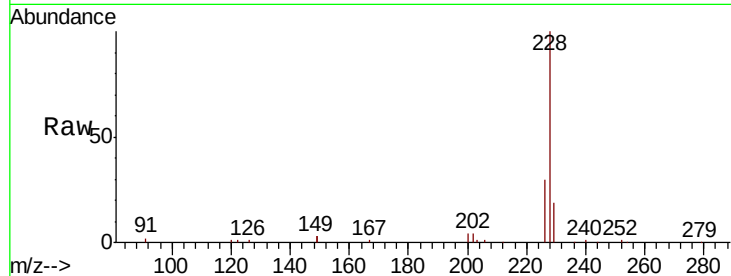
#31  
Chrysene  
Concen: 0.372 ng  
RT: 21.34 min Scan# 1628  
Delta R.T. 0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

Instrument :  
BNA\_E  
ClientSampleId :  
PB125273BS

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:228 | Resp: | 45135     |
| Ion Ratio   | Lower | Upper     |
| 228         | 100   |           |
| 226         | 30.2  | 25.0 37.4 |
| 229         | 19.2  | 15.4 23.2 |

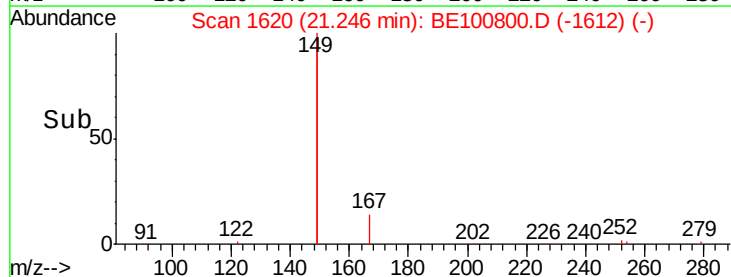
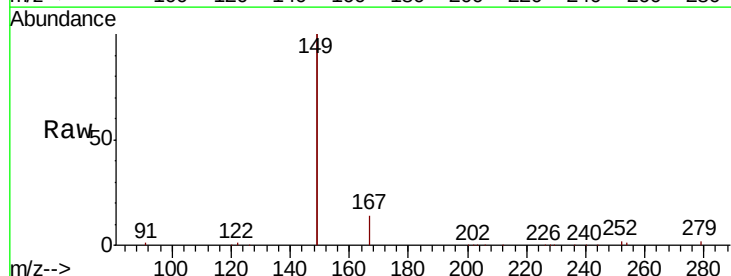
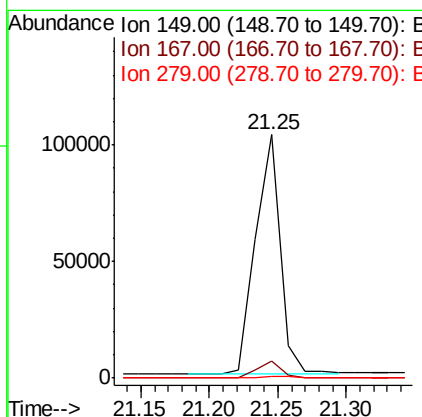
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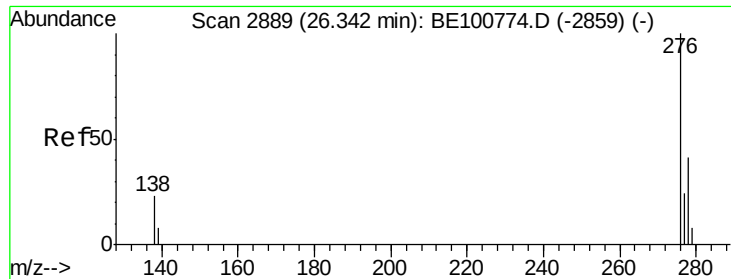
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#32  
Bis(2-ethylhexyl)phthalate  
Concen: 1.453 ng  
RT: 21.25 min Scan# 1620  
Delta R.T. 0.00 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

|             |       |         |
|-------------|-------|---------|
| Tgt Ion:149 | Resp: | 128574  |
| Ion Ratio   | Lower | Upper   |
| 149         | 100   |         |
| 167         | 6.4   | 5.0 7.6 |
| 279         | 0.8   | 0.7 1.1 |





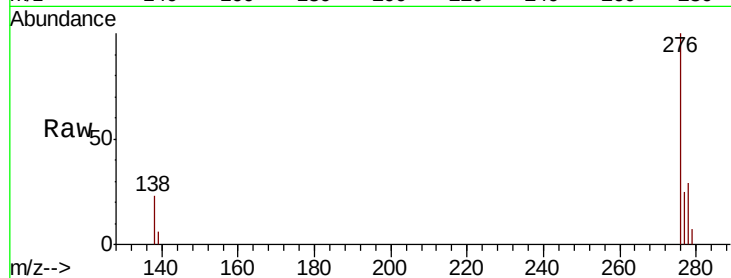
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.471 ng  
RT: 26.32 min Scan# 2884  
Delta R.T. -0.02 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

Instrument :  
BNA\_E  
ClientSampleId :  
PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.4  | 19.4  | 29.0  |
| 277     | 25.1  | 19.8  | 29.6  |

Manual Integrations  
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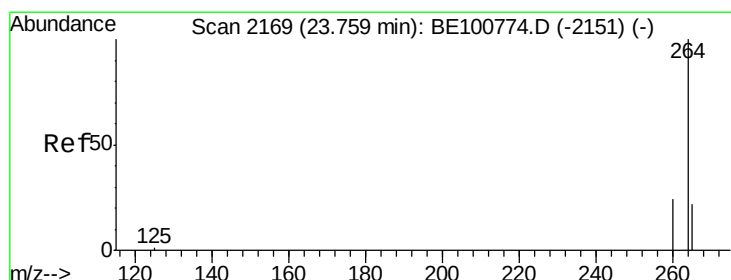
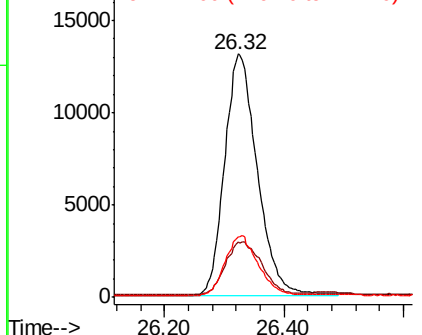
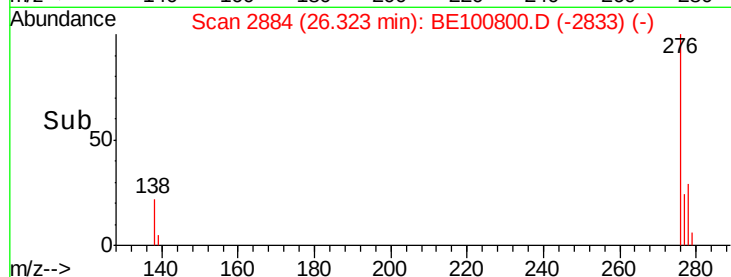


Abundance

Ion 276.00 (275.70 to 276.70): E

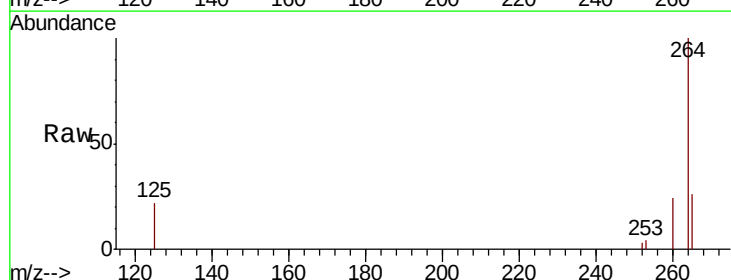
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.75 min Scan# 2167  
Delta R.T. -0.01 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.4  | 29.2  |
| 265     | 25.8  | 21.8  | 32.8  |

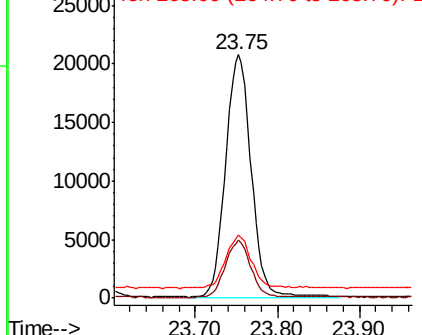
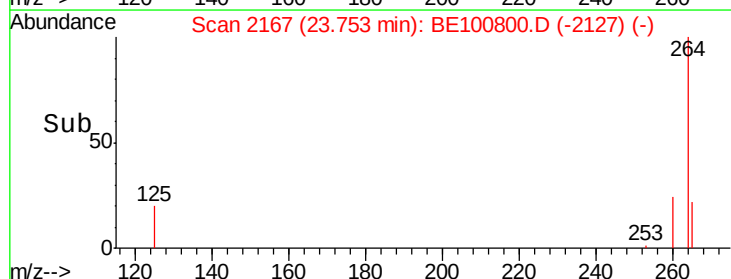


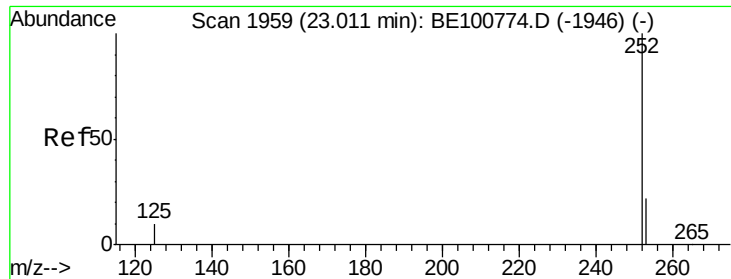
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





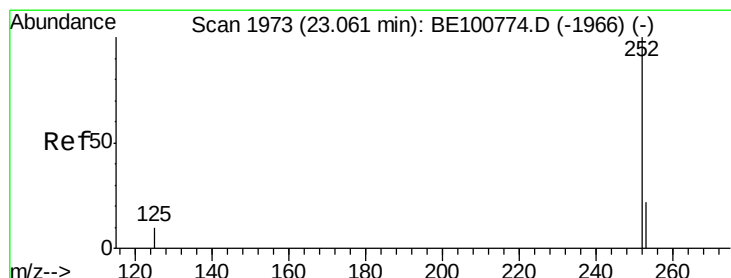
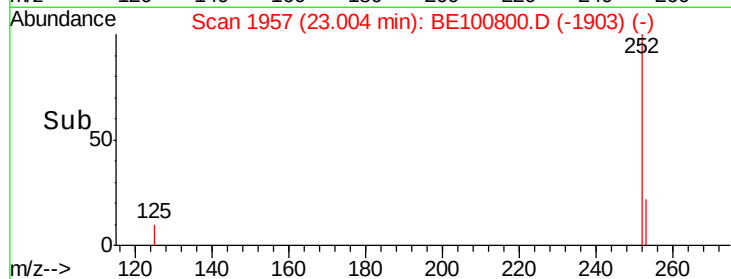
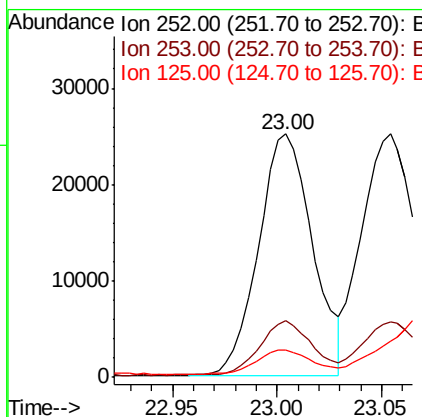
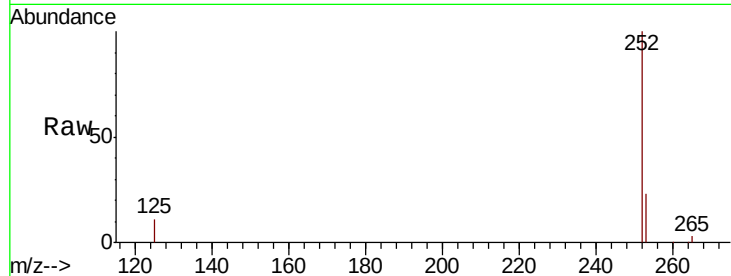
#35  
Benzo(b)fluoranthene  
Concen: 0.367 ng  
RT: 23.00 min Scan# 1957  
Delta R.T. -0.01 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

Instrument :  
BNA\_E  
ClientSampleId :  
PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.8  | 26.8  |
| 125     | 11.1  | 9.0   | 13.4  |

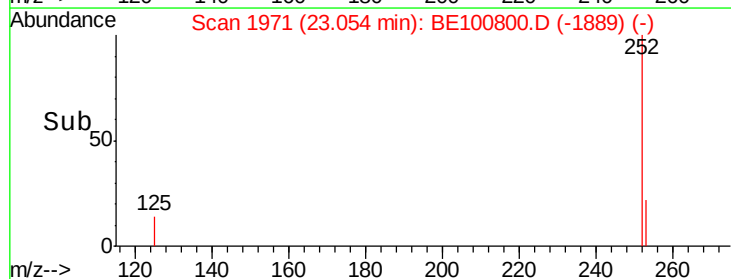
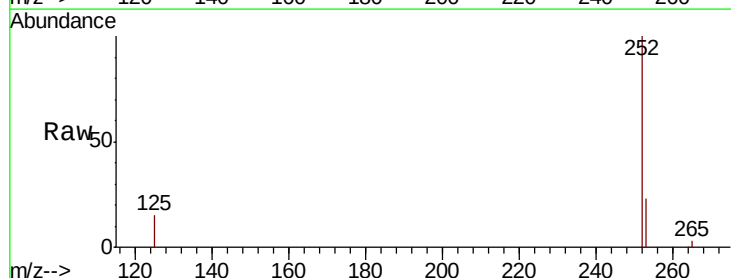
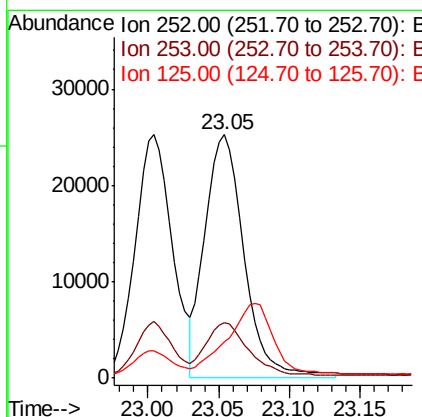
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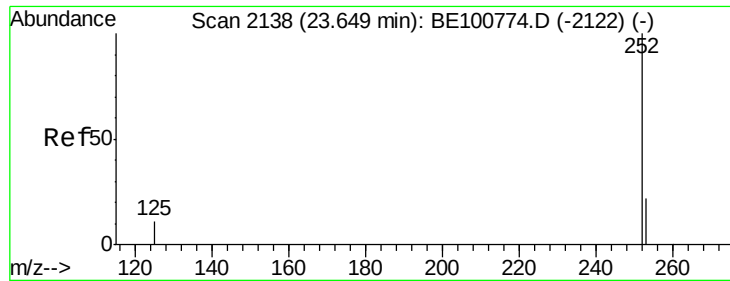
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#36  
Benzo(k)fluoranthene  
Concen: 0.357 ng m  
RT: 23.05 min Scan# 1971  
Delta R.T. -0.01 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 17.8  | 26.8  |
| 125     | 14.8  | 8.7   | 13.1# |





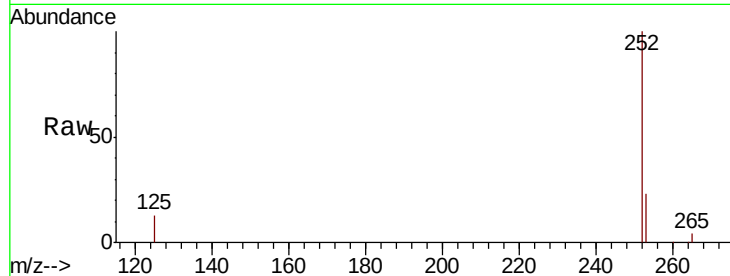
#37  
Benzo(a)pyrene  
Concen: 0.403 ng  
RT: 23.64 min Scan# 2136  
Delta R.T. -0.01 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

Instrument :  
BNA\_E  
ClientSampleId :  
PB125273BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 18.2  | 27.4  |
| 125     | 12.6  | 10.4  | 15.6  |

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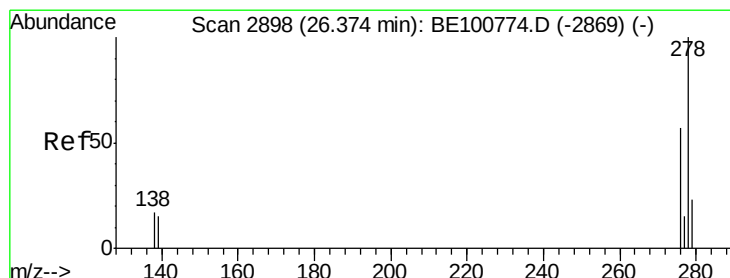
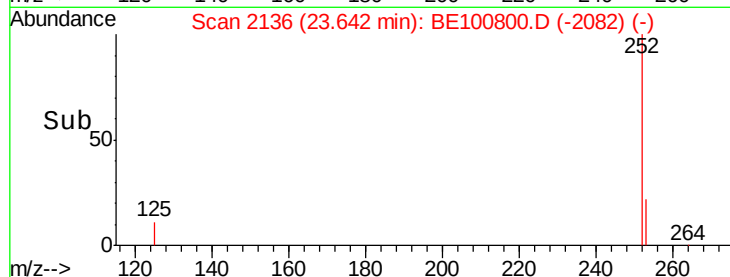
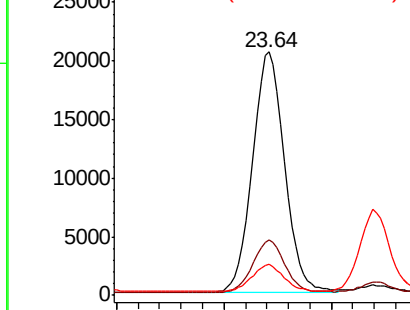


Abundance

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: 0.389 ng  
RT: 26.36 min Scan# 2893  
Delta R.T. -0.02 min  
Lab File: BE100800.D  
Acq: 6 Dec 2019 10:33

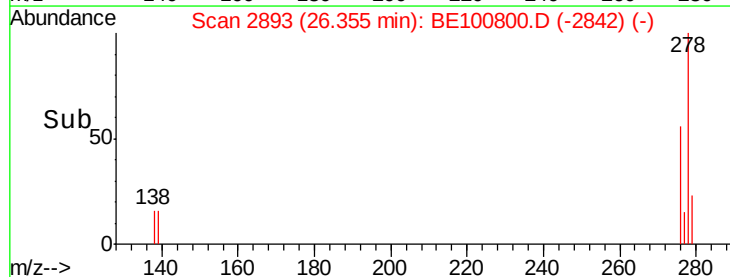
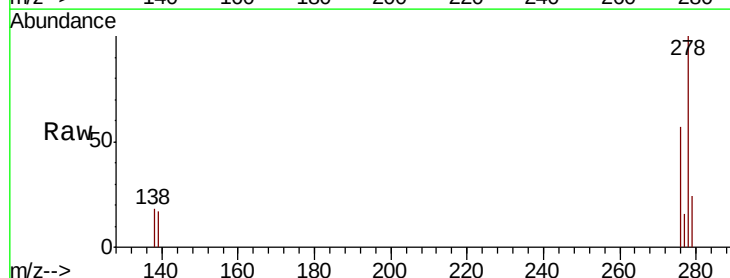
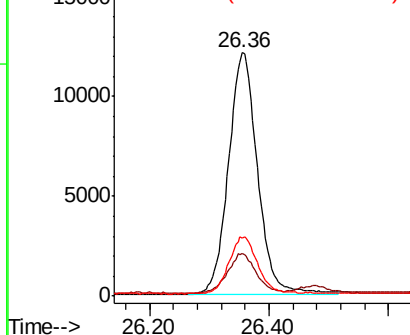
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.4  | 13.0  | 19.4  |
| 279     | 24.1  | 19.6  | 29.4  |

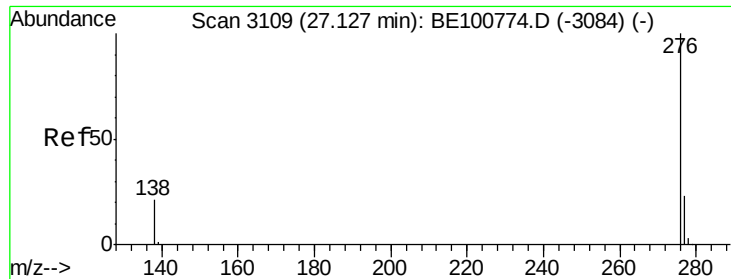
Abundance

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: 0.378 ng

RT: 27.11 min Scan# 3105

Delta R.T. -0.02 min

Lab File: BE100800.D

Acq: 6 Dec 2019 10:33

Instrument :

BNA\_E

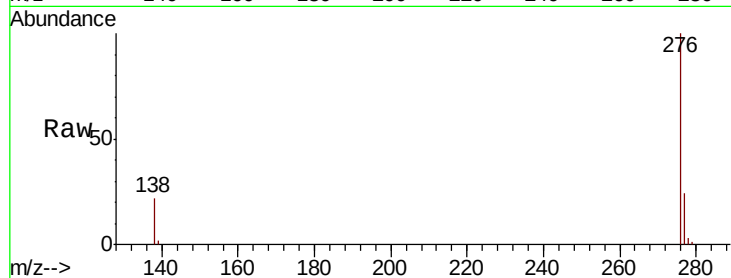
ClientSampleId :

PB125273BS

|           |      |       |       |
|-----------|------|-------|-------|
| Tot Ion:  | 276  | Resp: | 42631 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 277       | 23.6 | 19.3  | 28.9  |
| 138       | 22.4 | 17.8  | 26.6  |

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

