

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF041519\  
 Data File : BF113777.D  
 Acq On : 15 Apr 2019 22:00  
 Operator : JU/SJ  
 Sample : K2199-11  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-041219-B

Manual Integrations  
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Sohil  
 4/16/2019 5:03:03 PM

Quant Time: Apr 16 05:26:17 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 04 04:05:31 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|----------|---------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.67  | 152  | 117442   | 20.00   | ng    | -0.02    |
| 21) Naphthalene-d8          | 7.95  | 136  | 445216   | 20.00   | ng    | -0.02    |
| 39) Acenaphthene-d10        | 9.70  | 164  | 215435   | 20.00   | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.19 | 188  | 398709   | 20.00   | ng    | -0.02    |
| 76) Chrysene-d12            | 13.83 | 240  | 281767   | 20.00   | ng    | -0.02    |
| 87) Perylene-d12            | 15.24 | 264  | 306587   | 20.00   | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.29  | 112  | 671276   | 97.47   | ng    | -0.01    |
| 7) Phenol-d6                | 6.33  | 99   | 900430   | 106.08  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.24  | 82   | 509660   | 67.05   | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.50 | 330  | 242497   | 93.70   | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.03  | 172  | 972763   | 72.69   | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.77 | 244  | 932947   | 67.41   | ng    | -0.02    |
| Target Compounds            |       |      |          |         |       | Qvalue   |
| 31) Naphthalene             | 7.97  | 128  | 122251   | 5.667   | ng    | 97       |
| 37) 2-Methylnaphthalene     | 8.67  | 142  | 41165    | 2.901   | ng    | 98       |
| 38) 1-Methylnaphthalene     | 8.76  | 142  | 38644    | 2.825   | ng    | 96       |
| 49) Acenaphthylene          | 9.56  | 152  | 109385   | 4.998   | ng    | 99       |
| 50) Dimethylphthalate       | 9.43  | 163  | 116418   | 7.331   | ng    | 100      |
| 52) Acenaphthene            | 9.73  | 154  | 100218   | 7.999   | ng    | 98       |
| 55) Dibenzofuran            | 9.91  | 168  | 143299   | 7.797   | ng    | 96       |
| 58) Fluorene                | 10.25 | 166  | 211238   | 14.532  | ng    | 100      |
| 71) Phenanthrene            | 11.22 | 178  | 1886817  | 95.235  | ng    | 99       |
| 72) Anthracene              | 11.26 | 178  | 595757   | 29.555  | ng    | 99       |
| 73) Carbazole               | 11.43 | 167  | 163168   | 8.655   | ng    | 99       |
| 75) Fluoranthene            | 12.41 | 202  | 2559239  | 120.547 | ng    | 98       |
| 78) Pyrene                  | 12.63 | 202  | 2198943  | 102.566 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.82 | 228  | 1263604  | 77.742  | ng    | 98       |
| 83) Chrysene                | 13.86 | 228  | 1061433  | 64.420  | ng    | 97       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.61 | 276  | 488021   | 32.080  | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 14.85 | 252  | 1354715m | 72.186  | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.87 | 252  | 417356m  | 24.779  | ng    |          |
| 90) Benzo(a)pyrene          | 15.19 | 252  | 928922   | 55.703  | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 16.60 | 278  | 130602m  | 8.375   | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.02 | 276  | 431866   | 27.132  | ng    | 97       |

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

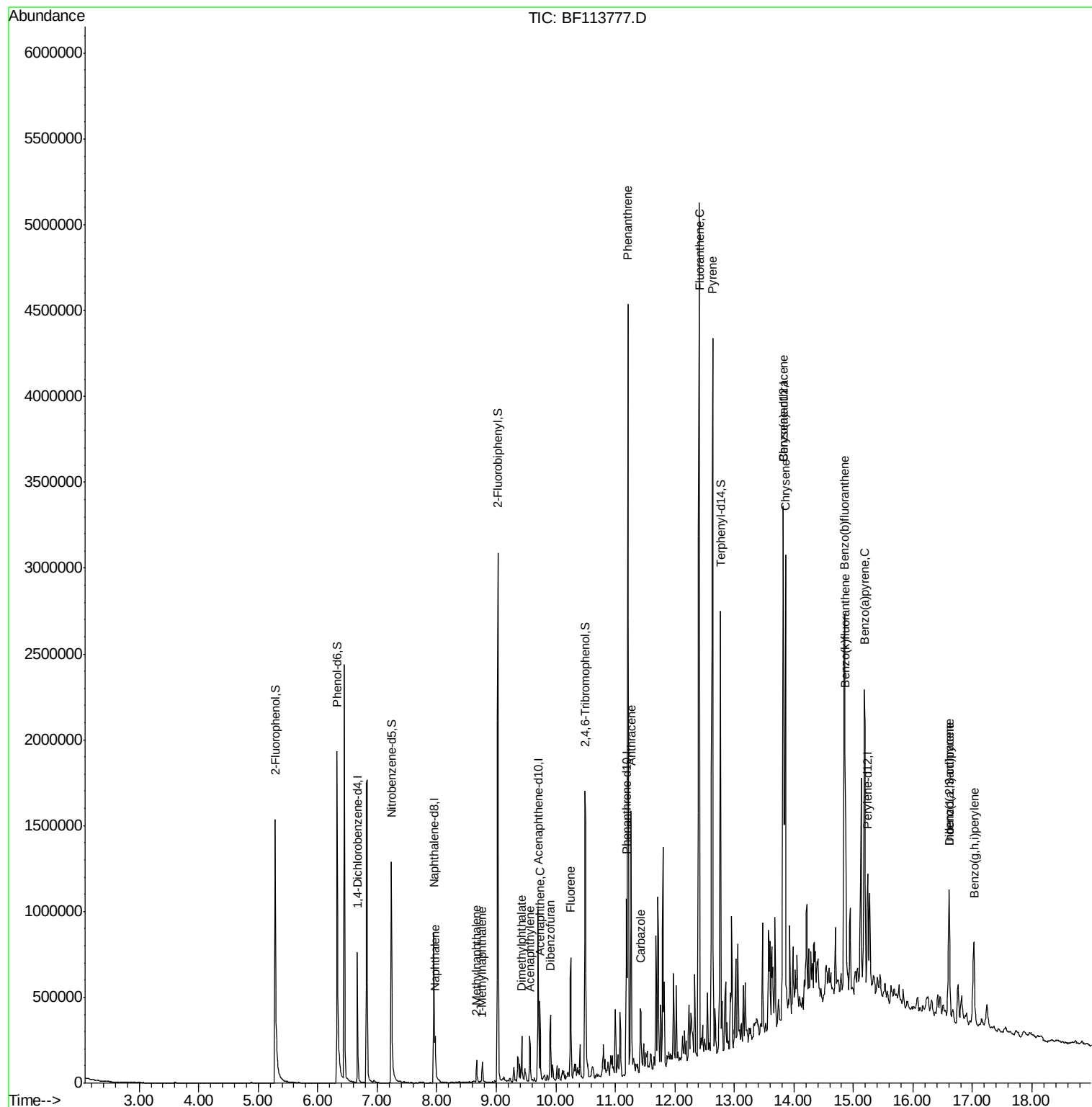
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF041519\  
Data File : BF113777.D  
Acq On : 15 Apr 2019 22:00  
Operator : JU/SJ  
Sample : K2199-11  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

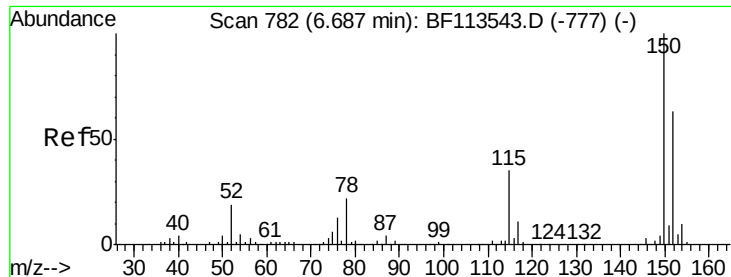
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-041219-B

Manual Integrations  
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4/16/2019 5:03:03 PM

Quant Time: Apr 16 05:26:17 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Apr 04 04:05:31 2019  
Response via : Initial Calibration





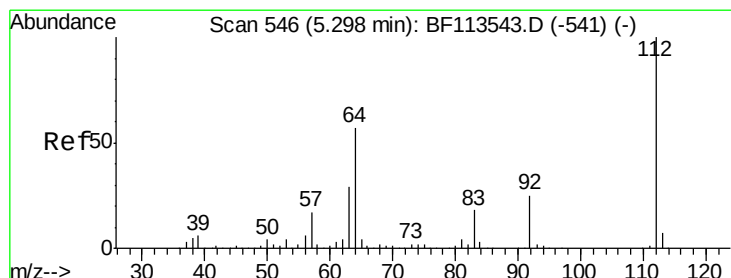
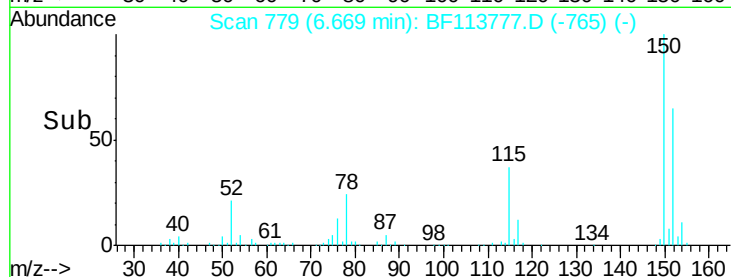
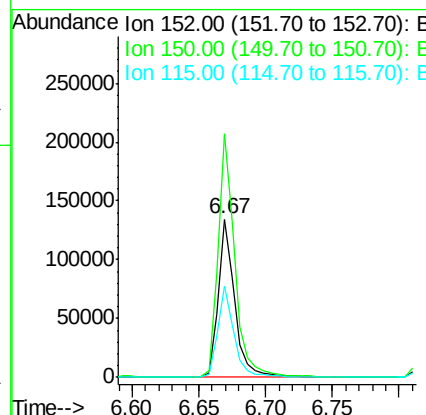
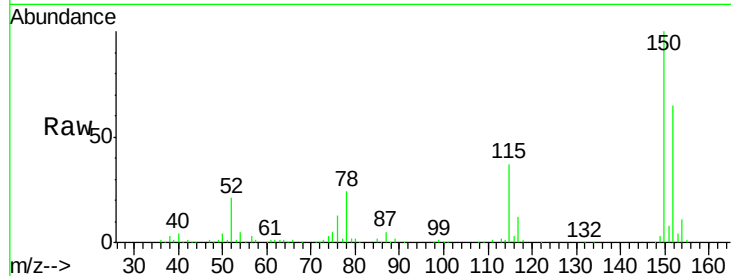
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 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.67 min Scan# 779  
 Delta R.T. -0.02 min  
 Lab File: BF113777.D  
 Acq: 15 Apr 2019 22:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-041219-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.2 | 124.7 | 187.1 |
| 115     | 57.7  | 46.0  | 69.0  |

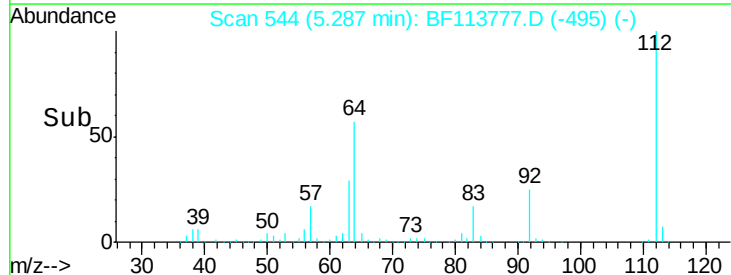
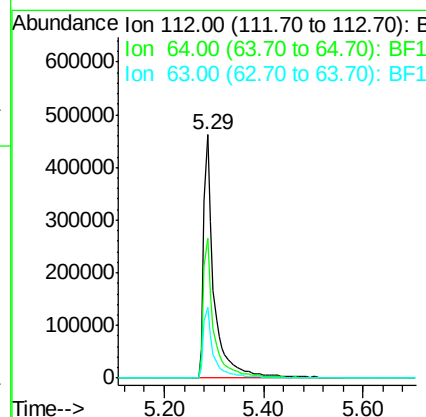
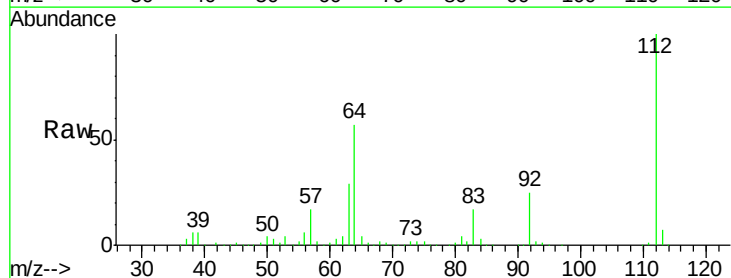
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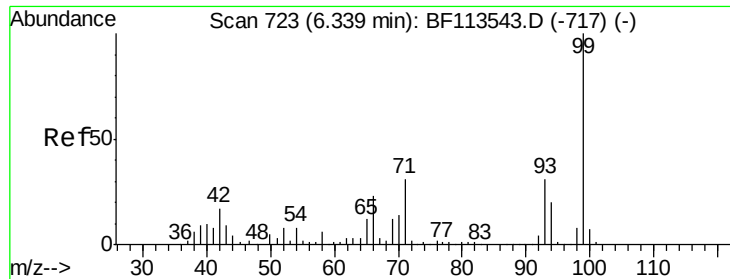
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#5  
 2-Fluorophenol  
 Concen: 97.468 ng  
 RT: 5.29 min Scan# 544  
 Delta R.T. -0.01 min  
 Lab File: BF113777.D  
 Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.3  | 49.2  | 73.8  |
| 63      | 29.1  | 24.9  | 37.3  |





#7

Phenol-d6

Concen: 106.077 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF113777.D

Acq: 15 Apr 2019 22:00

Instrument :

BNA\_F

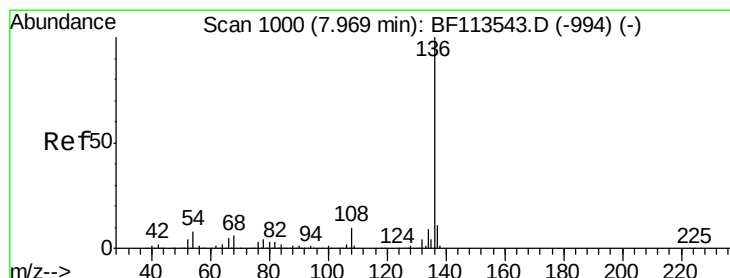
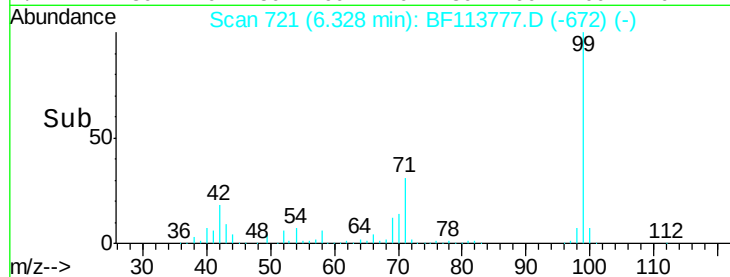
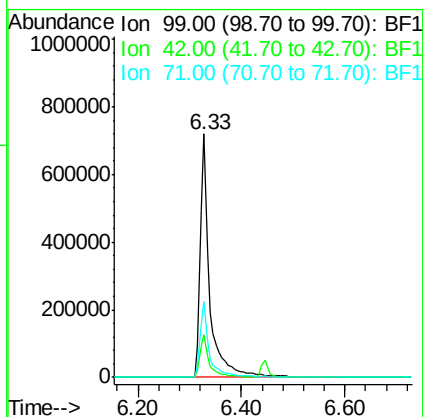
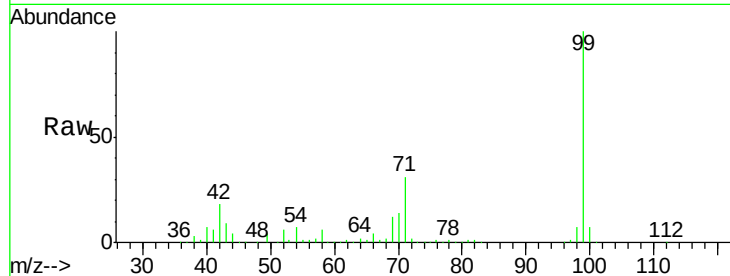
ClientSampleId :

OR-02-041219-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 900430 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.7  | 14.8  | 22.2   |
| 71        | 31.1  | 24.9  | 37.3   |

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#21

Naphthalene-d8

Concen: 20.000 ng

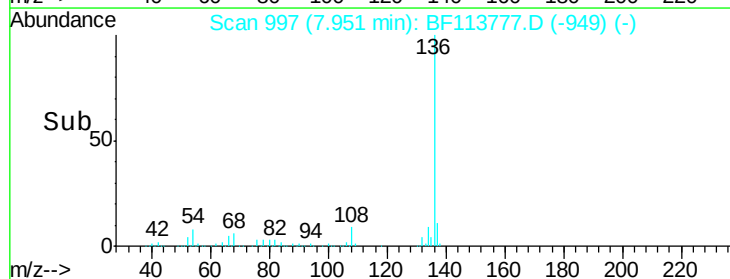
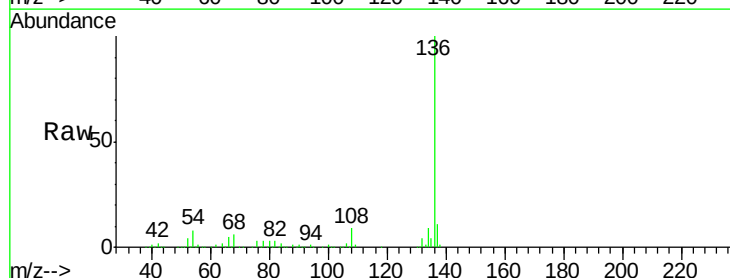
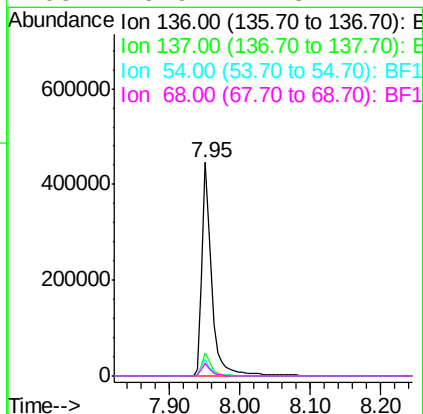
RT: 7.95 min Scan# 997

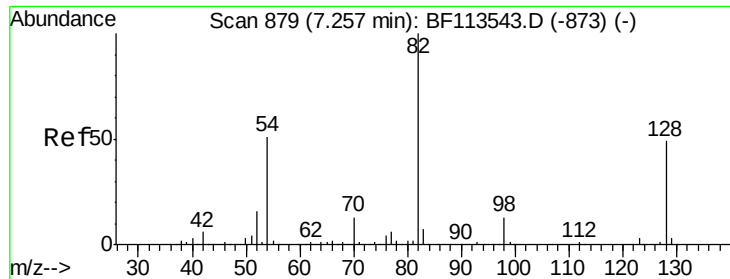
Delta R.T. -0.02 min

Lab File: BF113777.D

Acq: 15 Apr 2019 22:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 445216 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.9   | 13.3   |
| 54        | 7.8   | 7.0   | 10.6   |
| 68        | 5.9   | 4.8   | 7.2    |





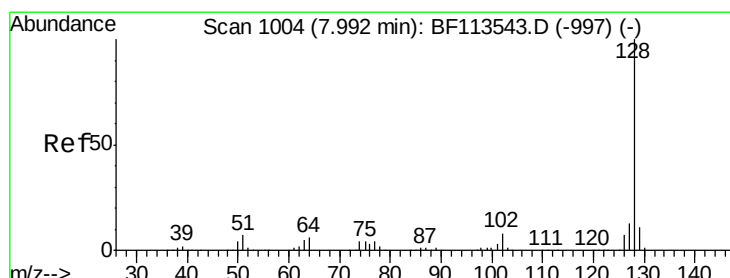
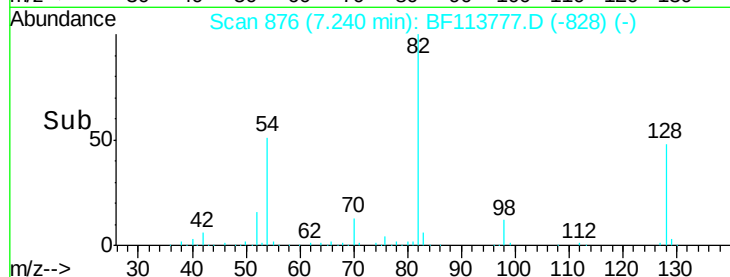
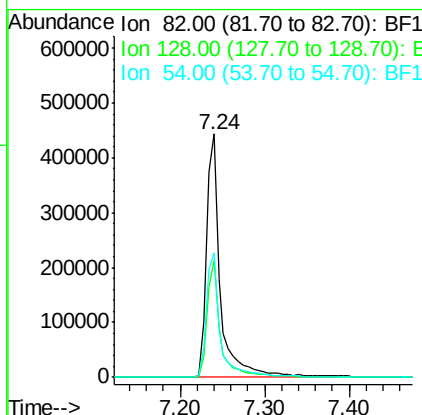
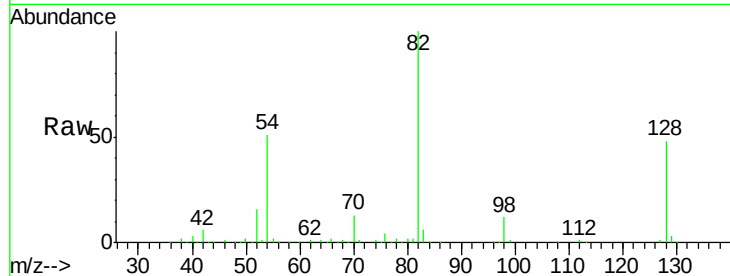
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 Nitrobenzene-d5  
 Concen: 67.054 ng  
 RT: 7.24 min Scan# 876  
 Delta R.T. -0.02 min  
 Lab File: BF113777.D  
 Acq: 15 Apr 2019 22:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-041219-B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 509660 |       |       |
| 128     | 48.0  | 36.5   | 54.7  |       |
| 54      | 50.9  | 42.2   | 63.2  |       |

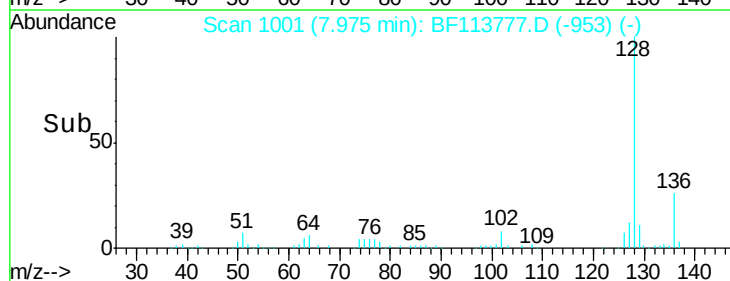
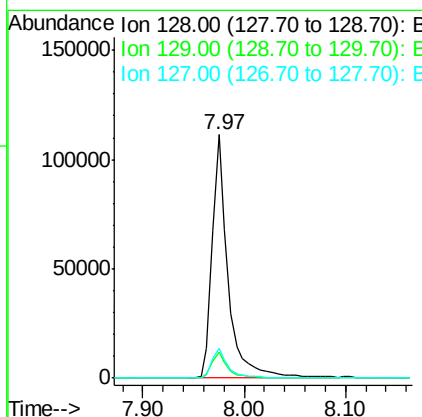
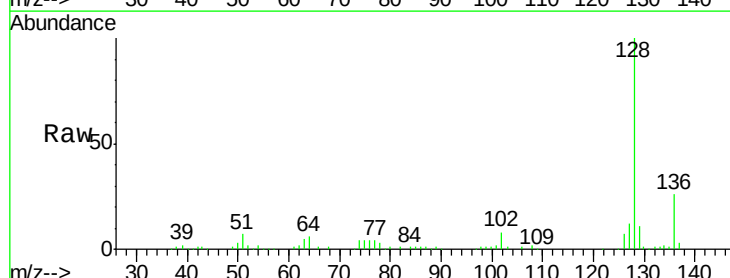
Manual Integrations  
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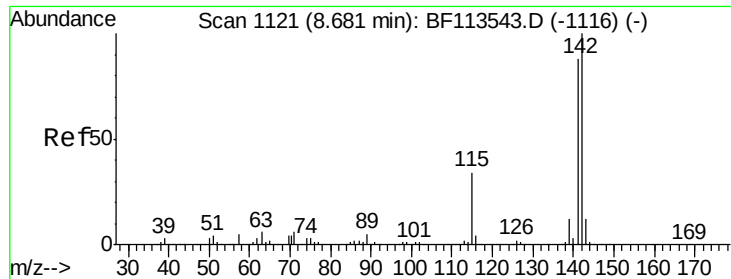
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#31  
 Naphthalene  
 Concen: 5.667 ng  
 RT: 7.97 min Scan# 1001  
 Delta R.T. -0.02 min  
 Lab File: BF113777.D  
 Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 122251 |       |       |
| 129     | 10.9  | 9.3    | 13.9  |       |
| 127     | 12.1  | 10.9   | 16.3  |       |





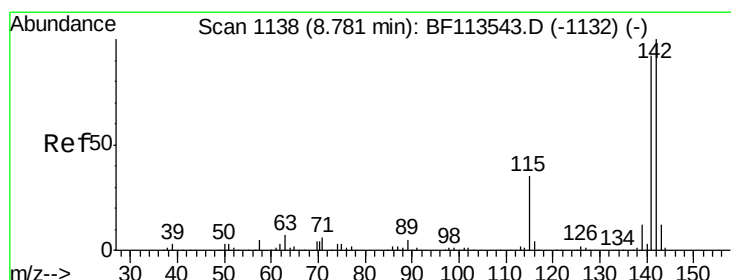
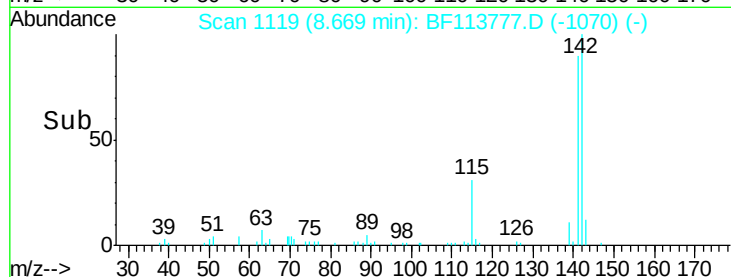
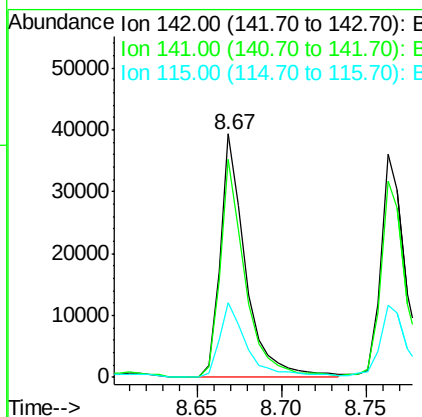
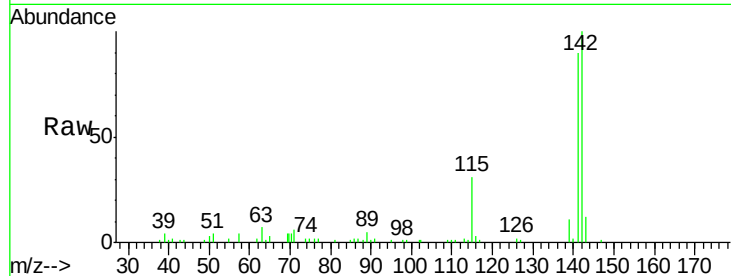
#37  
2-Methylnaphthalene  
Concen: 2.901 ng  
RT: 8.67 min Scan# 1119  
Delta R.T. -0.01 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-041219-B

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 142     | 100   | 41165 |       |       |
| 141     | 89.5  | 71.0  | 106.6 |       |
| 115     | 30.7  | 26.6  | 39.8  |       |

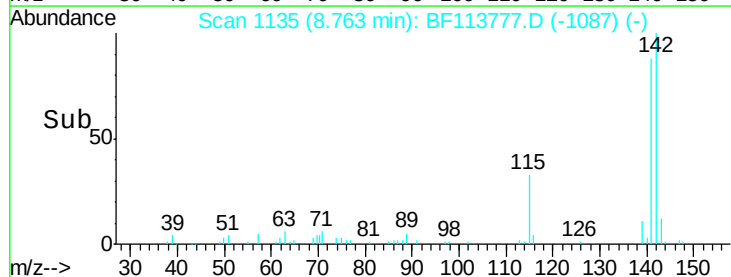
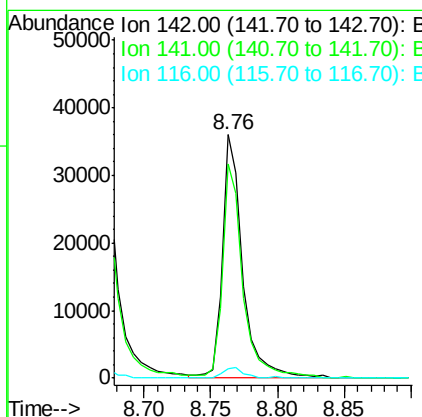
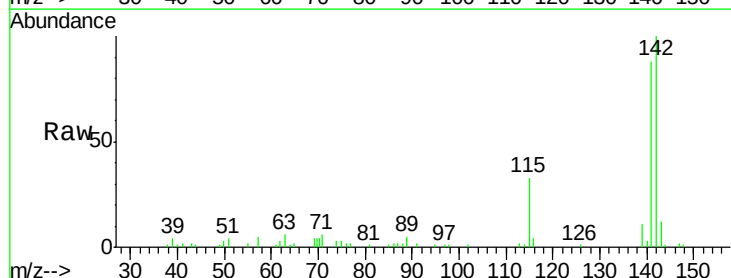
Manual Integrations  
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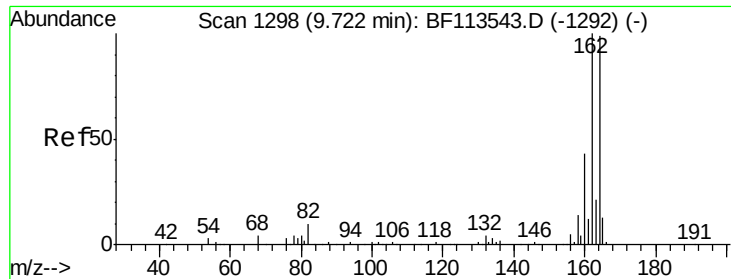
Sohil  
4/16/2019 5:03:03 PM



#38  
1-Methylnaphthalene  
Concen: 2.825 ng  
RT: 8.76 min Scan# 1135  
Delta R.T. -0.02 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 142     | 100   | 38644 |       |       |
| 141     | 88.0  | 73.2  | 109.8 |       |
| 116     | 3.6   | 3.0   | 4.4   |       |





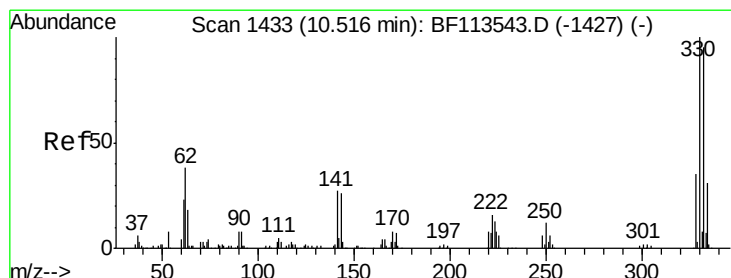
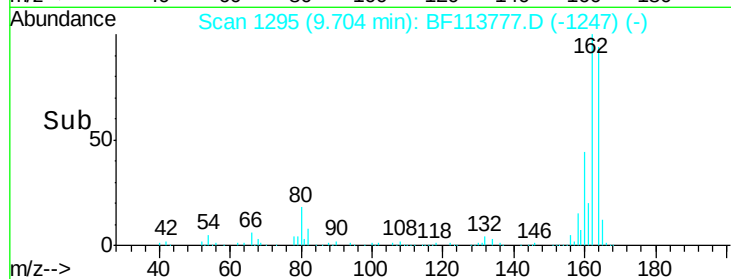
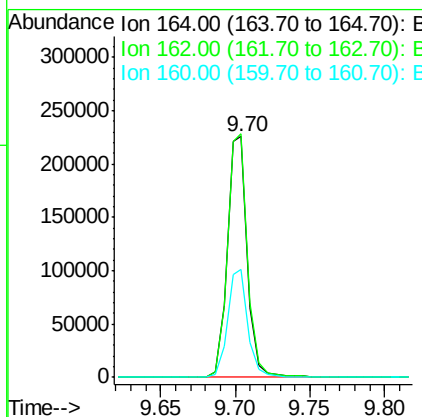
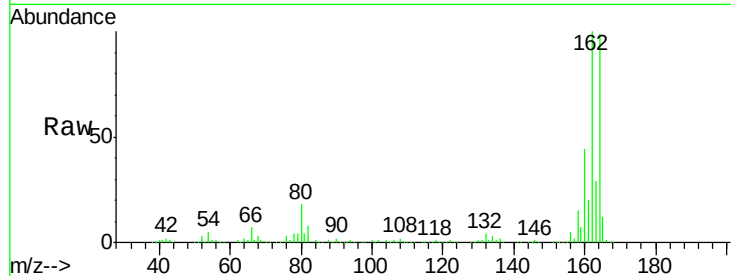
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 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.70 min Scan# 1295  
 Delta R.T. -0.02 min  
 Lab File: BF113777.D  
 Acq: 15 Apr 2019 22:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-041219-B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 215435 |       |       |
| 162     | 101.2 | 81.8   | 122.6 |       |
| 160     | 44.8  | 36.4   | 54.6  |       |

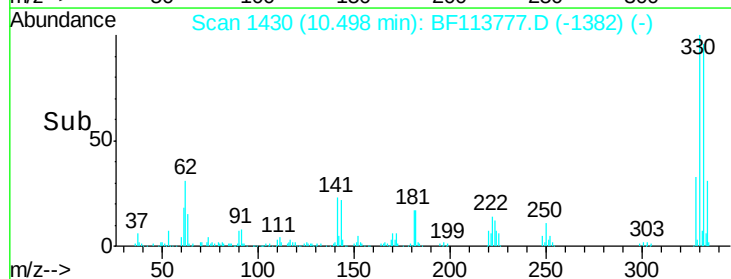
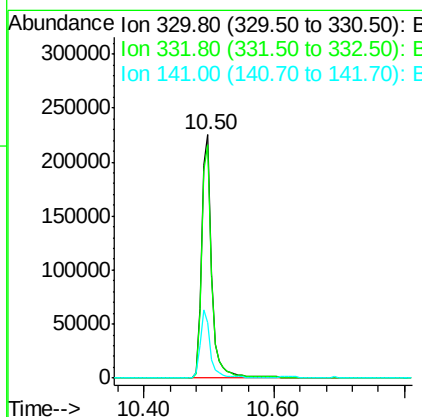
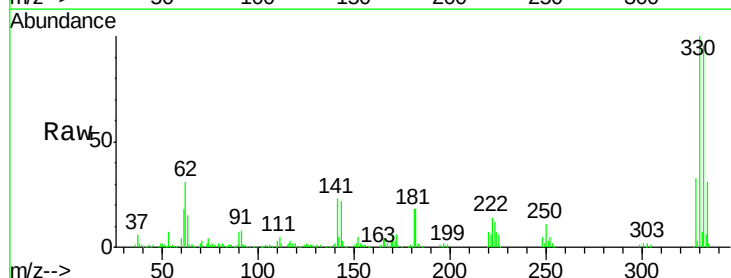
Manual Integrations  
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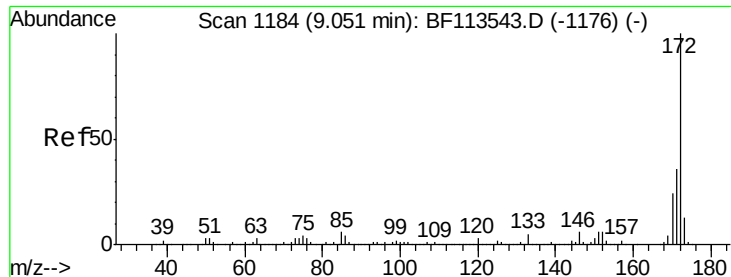
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 4/16/2019 5:03:03 PM



#42  
 2,4,6-Tribromophenol  
 Concen: 93.704 ng  
 RT: 10.50 min Scan# 1430  
 Delta R.T. -0.02 min  
 Lab File: BF113777.D  
 Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 242497 |       |       |
| 332     | 96.7  | 77.8   | 116.6 |       |
| 141     | 27.0  | 22.7   | 34.1  |       |





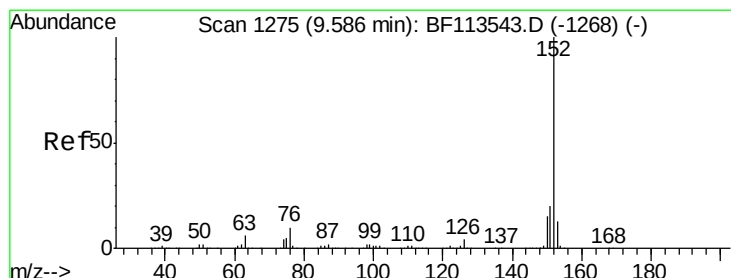
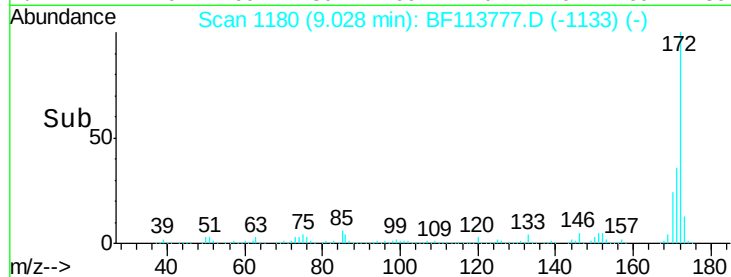
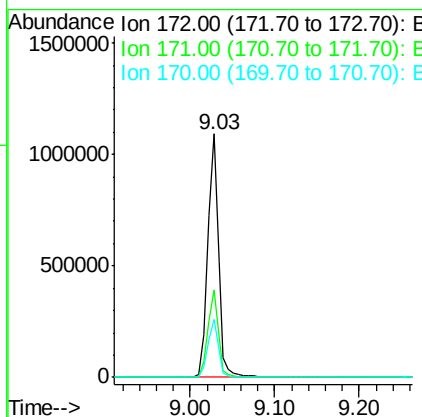
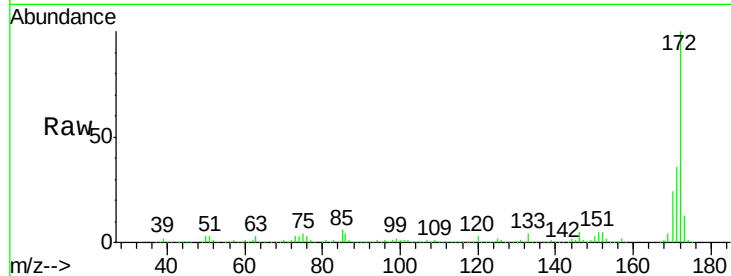
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2-Fluorobiphenyl  
Concen: 72.692 ng  
RT: 9.03 min Scan# 1180  
Delta R.T. -0.02 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-041219-B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 972763 |       |       |
| 171     | 35.7  | 29.0   | 43.6  |       |
| 170     | 24.0  | 19.5   | 29.3  |       |

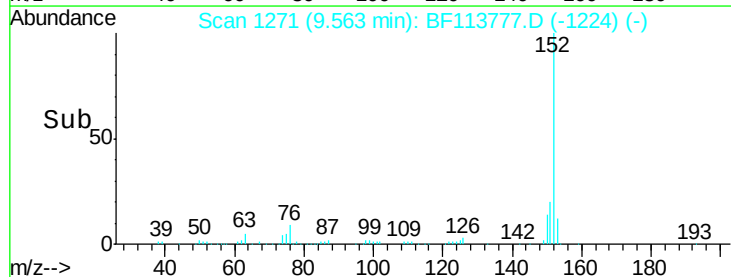
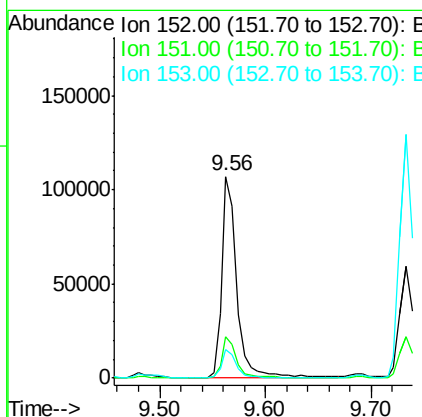
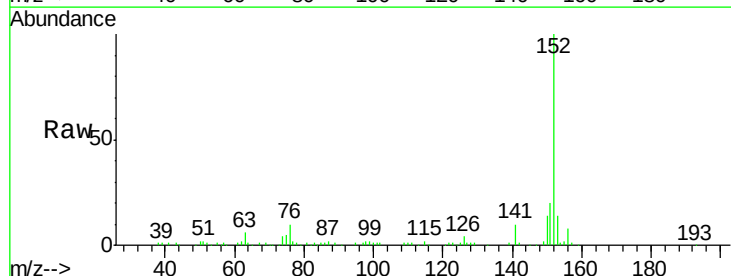
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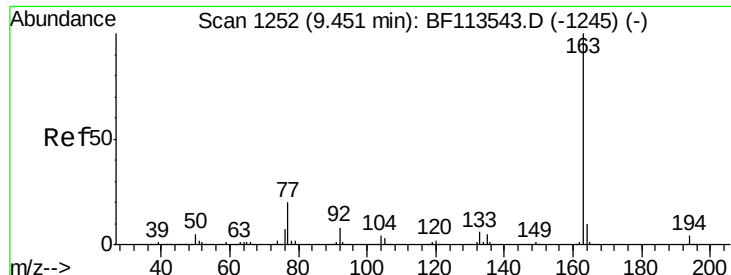


#49  
Acenaphthylene  
Concen: 4.998 ng  
RT: 9.56 min Scan# 1271  
Delta R.T. -0.02 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 109385 |       |       |
| 151     | 20.4  | 16.2   | 24.4  |       |
| 153     | 14.3  | 11.0   | 16.6  |       |







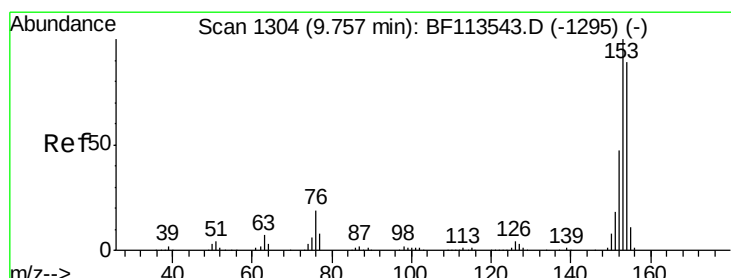
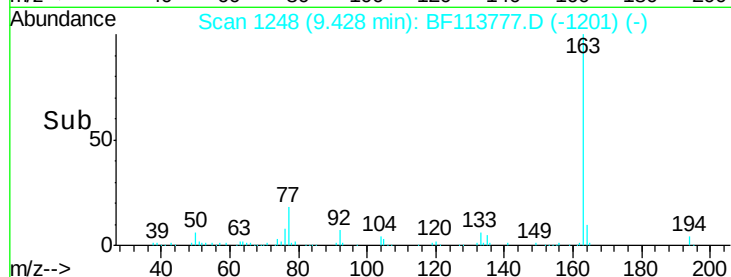
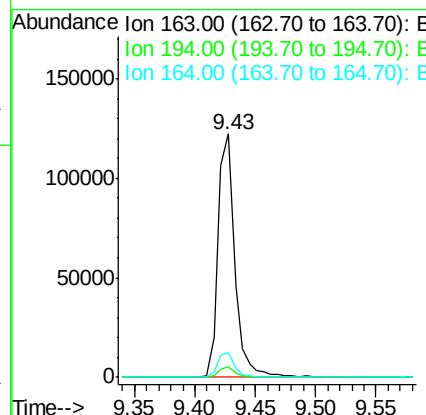
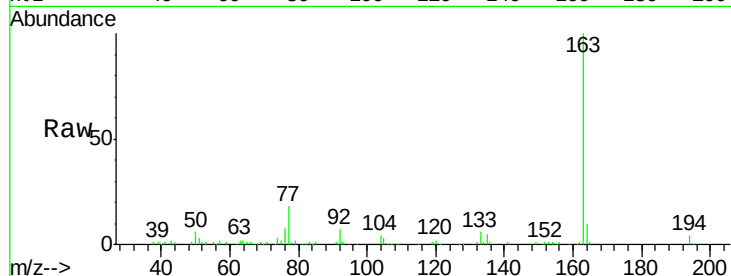
#50  
Dimethylphthalate  
Concen: 7.331 ng  
RT: 9.43 min Scan# 1248  
Delta R.T. -0.02 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-041219-B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 116418 |       |       |
| 194     | 4.2   | 3.0    | 4.6   |       |
| 164     | 10.1  | 8.1    | 12.1  |       |

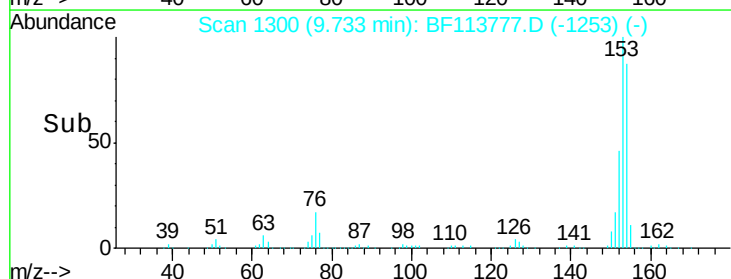
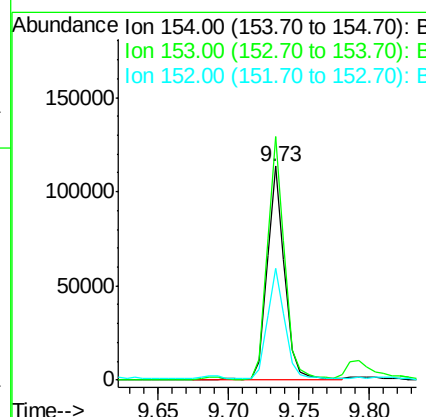
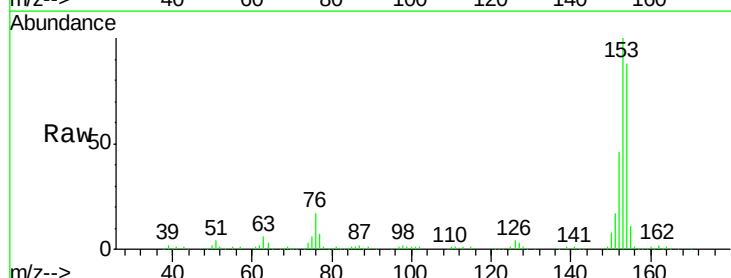
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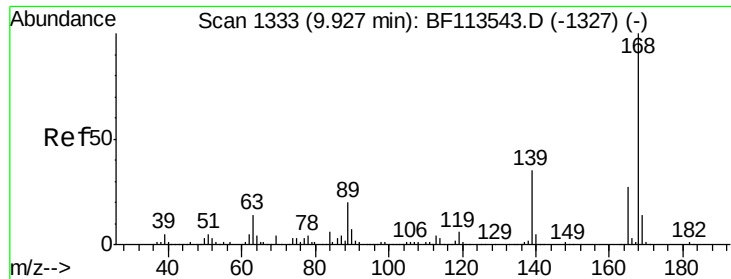
Sohil  
4/16/2019 5:03:03 PM



#52  
Acenaphthene  
Concen: 7.999 ng  
RT: 9.73 min Scan# 1300  
Delta R.T. -0.02 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 100218 |       |       |
| 153     | 114.0 | 89.5   | 134.3 |       |
| 152     | 52.3  | 43.3   | 64.9  |       |





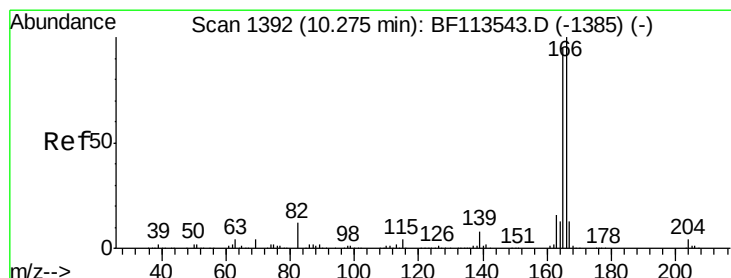
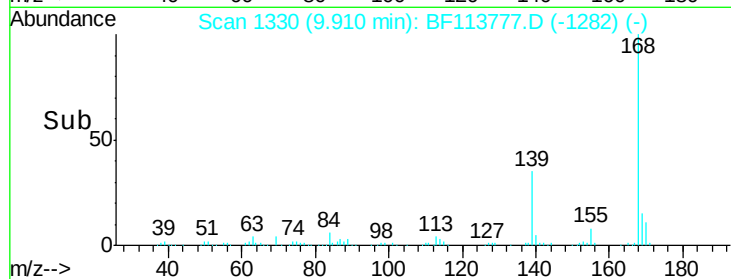
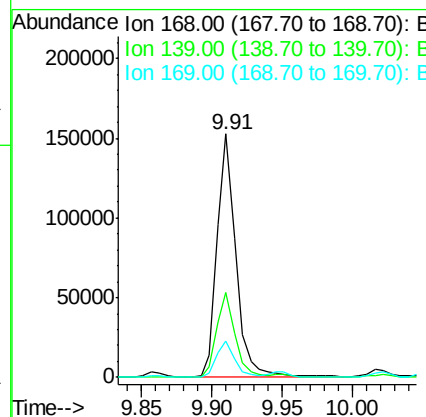
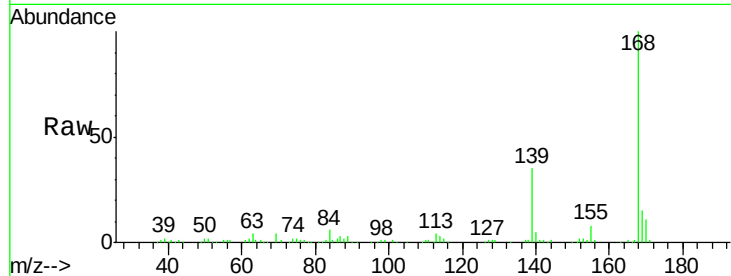
#55  
Dibenzenofuran  
Concen: 7.797 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. -0.02 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-041219-B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 168     | 100   | 143299 |       |       |
| 139     | 34.6  | 29.7   | 44.5  |       |
| 169     | 15.1  | 10.7   | 16.1  |       |

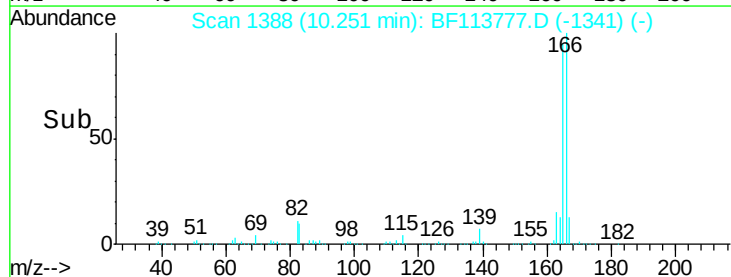
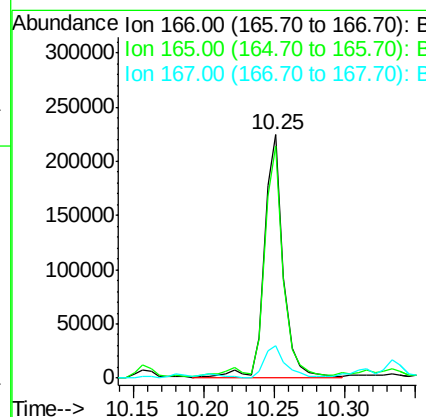
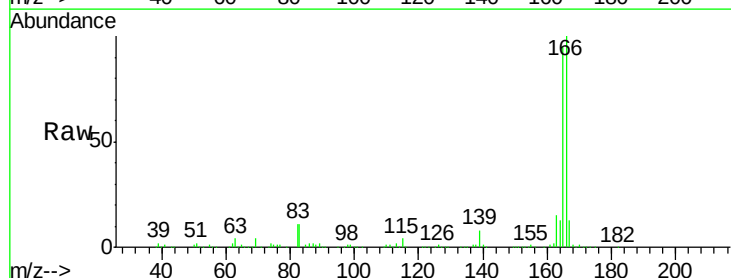
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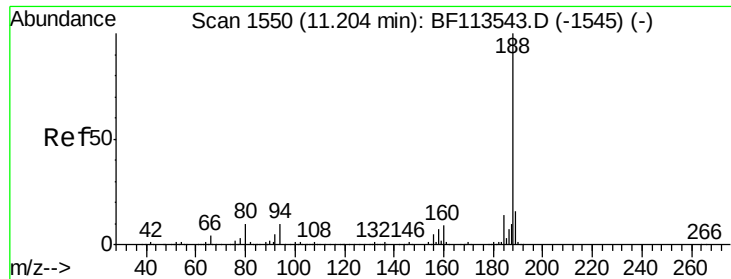
Sohil  
4/16/2019 5:03:03 PM



#58  
Fluorene  
Concen: 14.532 ng  
RT: 10.25 min Scan# 1388  
Delta R.T. -0.02 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 211238 |       |       |
| 165     | 95.1  | 76.2   | 114.2 |       |
| 167     | 13.2  | 10.7   | 16.1  |       |





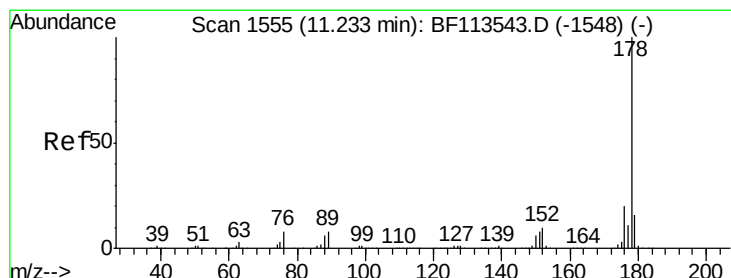
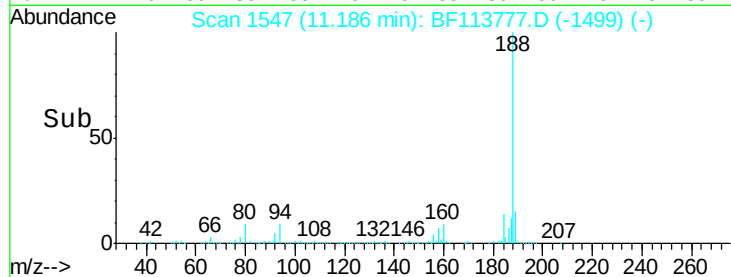
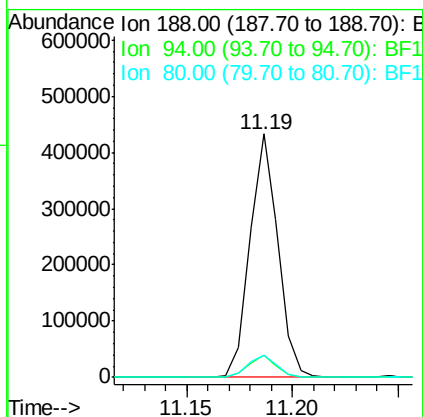
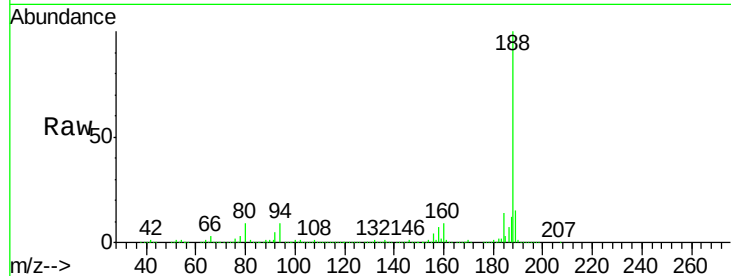
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.19 min Scan# 1547  
Delta R.T. -0.02 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-041219-B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 398709 |       |       |
| 94      | 9.0   | 7.0    | 10.6  |       |
| 80      | 9.0   | 7.7    | 11.5  |       |

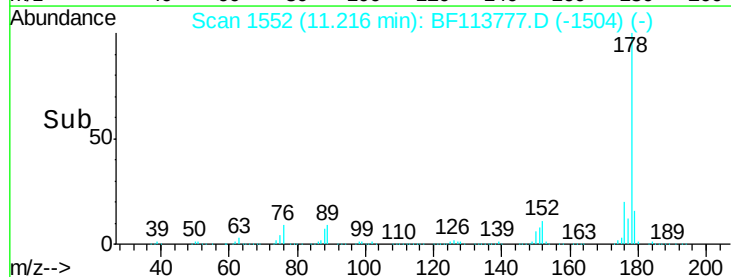
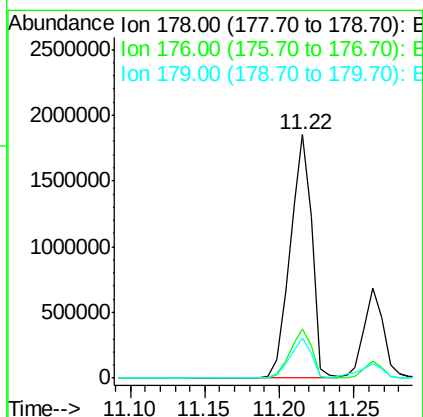
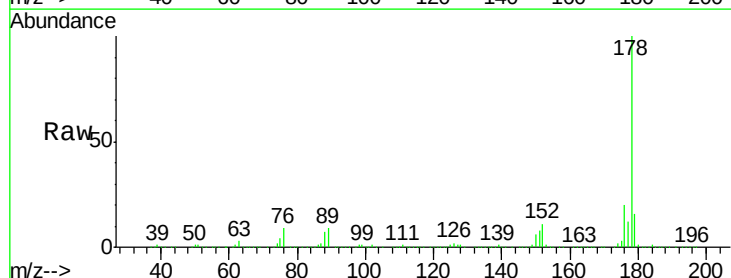
Manual Integrations  
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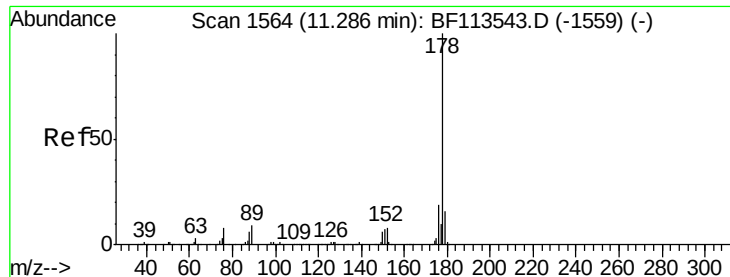
Sohil  
4/16/2019 5:03:03 PM



#71  
Phenanthrene  
Concen: 95.235 ng  
RT: 11.22 min Scan# 1552  
Delta R.T. -0.02 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 178     | 100   | 1886817 |       |       |
| 176     | 20.3  | 16.2    | 24.2  |       |
| 179     | 16.3  | 12.7    | 19.1  |       |





#72

Anthracene

Concen: 29.555 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.02 min

Lab File: BF113777.D

Acq: 15 Apr 2019 22:00

Instrument :

BNA\_F

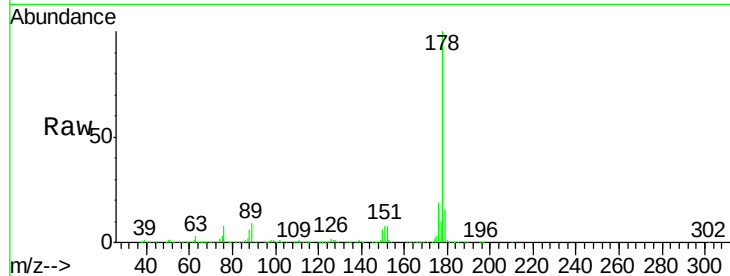
ClientSampleId :

OR-02-041219-B

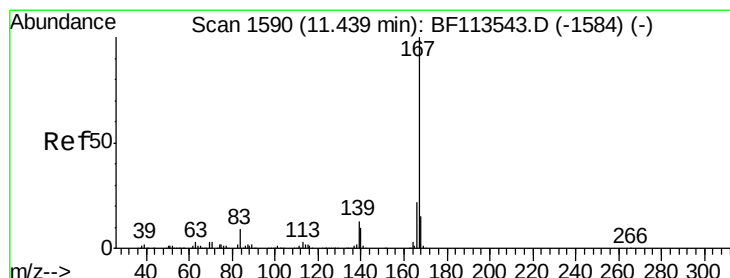
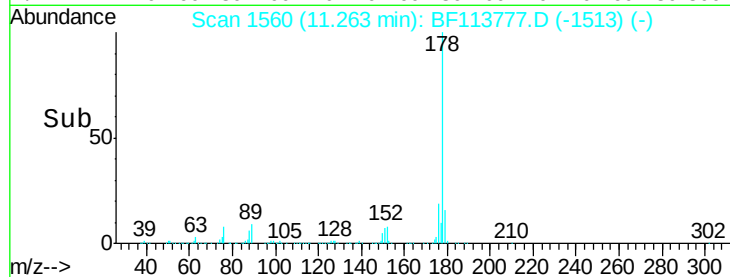
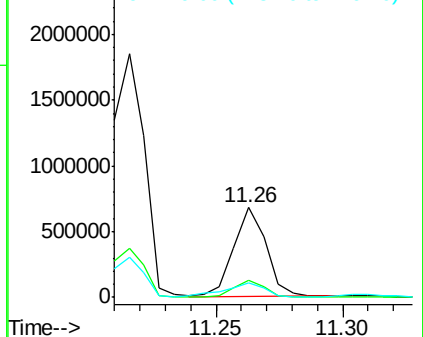
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 595757 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.6  | 15.4  | 23.2   |
| 179       | 16.3  | 12.8  | 19.2   |

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Abundance Ion 178.00 (177.70 to 178.70): E  
2500000  
Ion 176.00 (175.70 to 176.70): E  
2000000  
Ion 179.00 (178.70 to 179.70): E  
1500000  
1000000  
500000  
0



#73

Carbazole

Concen: 8.655 ng

RT: 11.43 min Scan# 1588

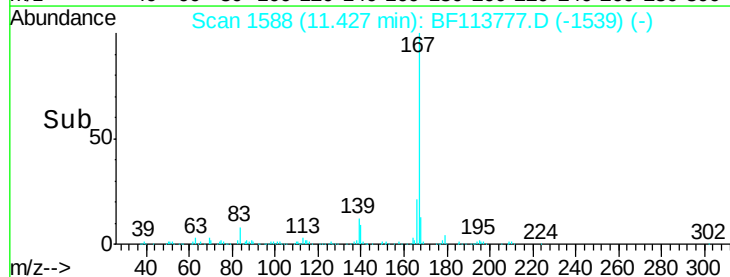
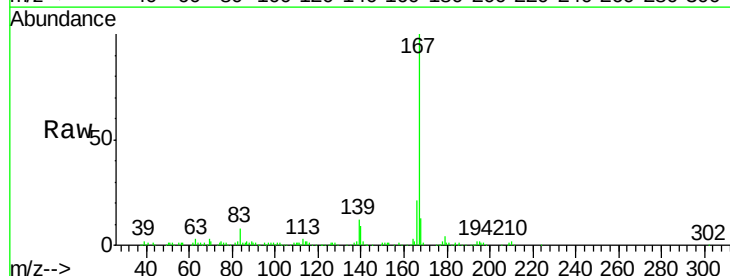
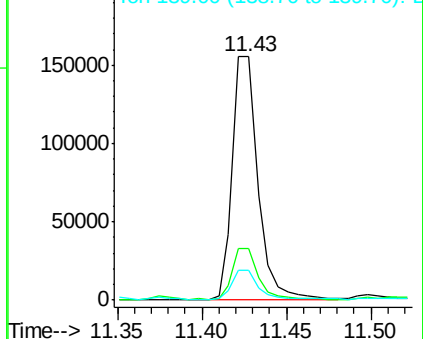
Delta R.T. -0.01 min

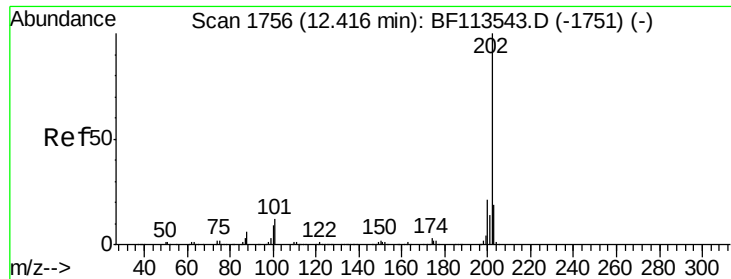
Lab File: BF113777.D

Acq: 15 Apr 2019 22:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 163168 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 21.4  | 17.4  | 26.0   |
| 139       | 12.3  | 10.4  | 15.6   |

Abundance Ion 167.00 (166.70 to 167.70): E  
200000  
Ion 166.00 (165.70 to 166.70): E  
150000  
Ion 139.00 (138.70 to 139.70): E  
100000  
50000  
0





#75

Fluoranthene

Concen: 120.547 ng

RT: 12.41 min Scan# 1755

Delta R.T. -0.01 min

Lab File: BF113777.D

Acq: 15 Apr 2019 22:00

Instrument :

BNA\_F

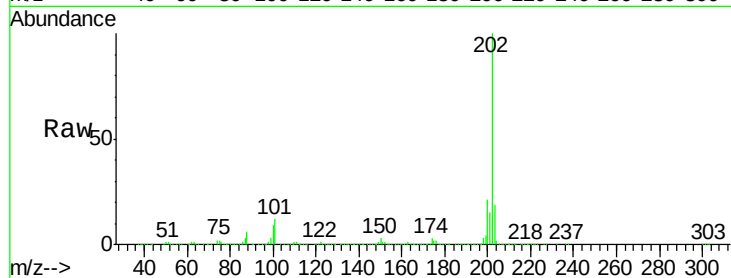
ClientSampleId :

OR-02-041219-B

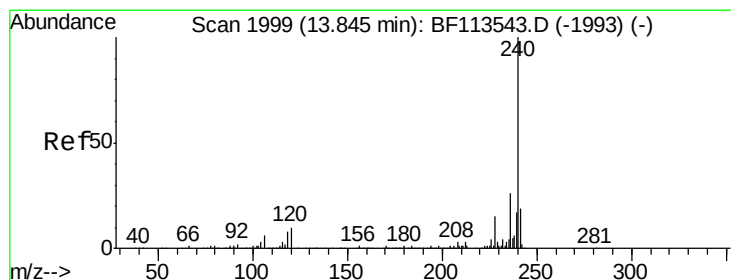
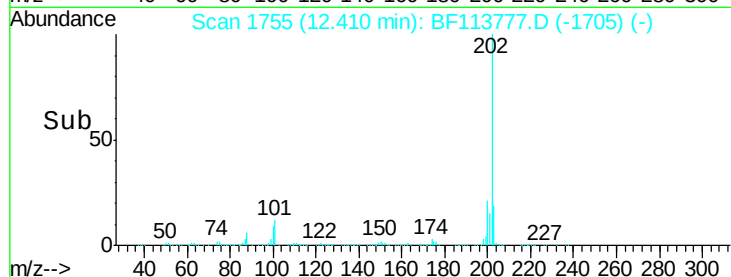
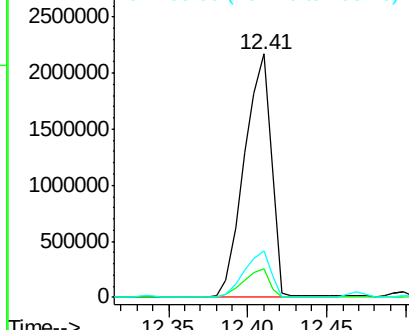
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 202   | Resp: | 2559239 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 11.9  | 0.0   | 31.4    |
| 203      | 19.0  | 0.0   | 38.0    |

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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



#76

Chrysene-d12

Concen: 20.000 ng

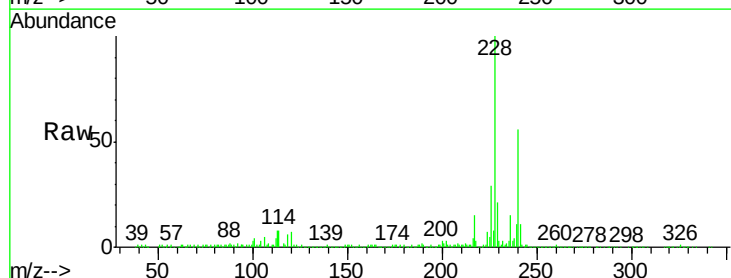
RT: 13.83 min Scan# 1996

Delta R.T. -0.02 min

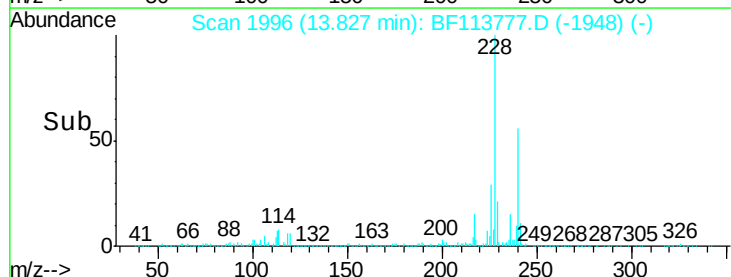
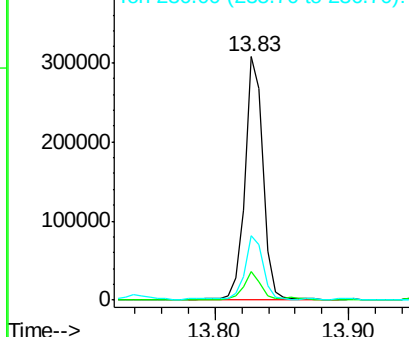
Lab File: BF113777.D

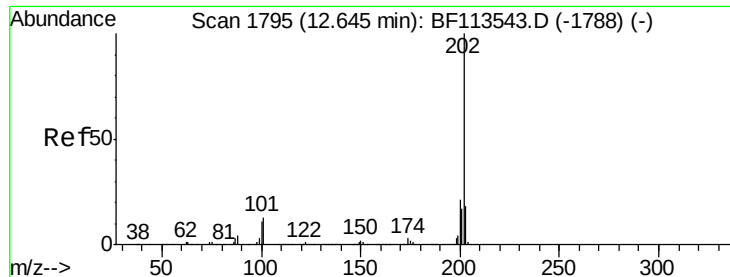
Acq: 15 Apr 2019 22:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 281767 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 11.6  | 8.8   | 13.2   |
| 236      | 26.7  | 20.9  | 31.3   |



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





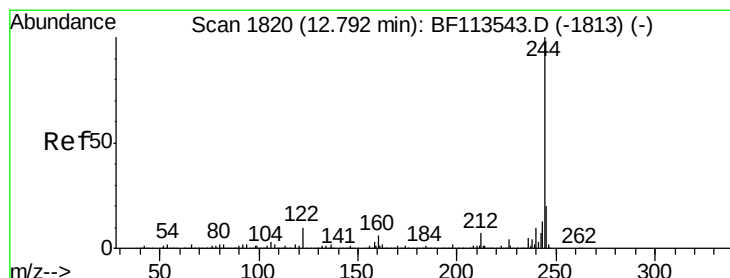
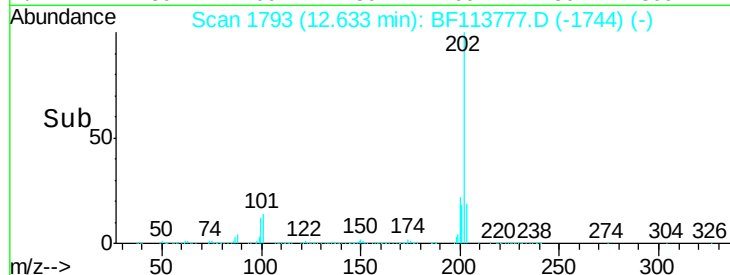
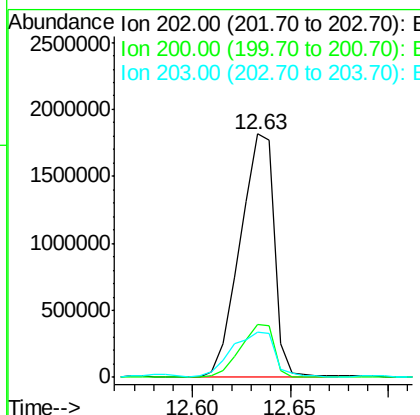
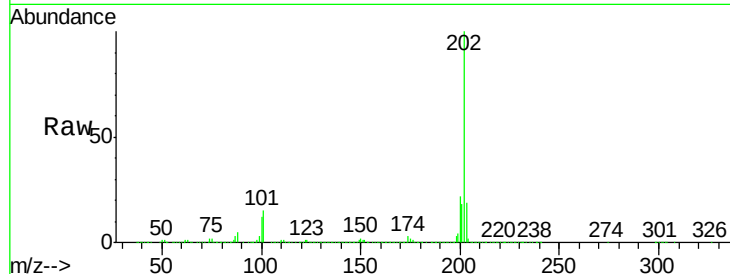
#78  
 Pyrene  
 Concen: 102.566 ng  
 RT: 12.63 min Scan# 1793  
 Delta R.T. -0.01 min  
 Lab File: BF113777.D  
 Acq: 15 Apr 2019 22:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-041219-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.9  | 16.8  | 25.2  |
| 203     | 18.8  | 14.4  | 21.6  |

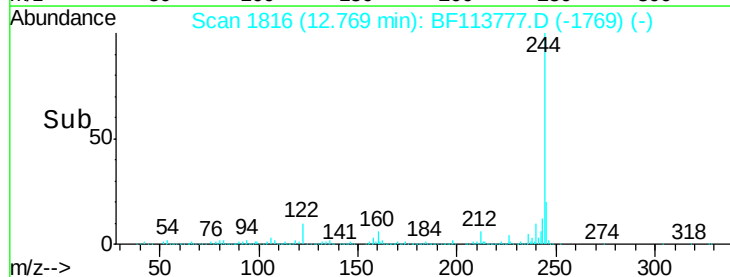
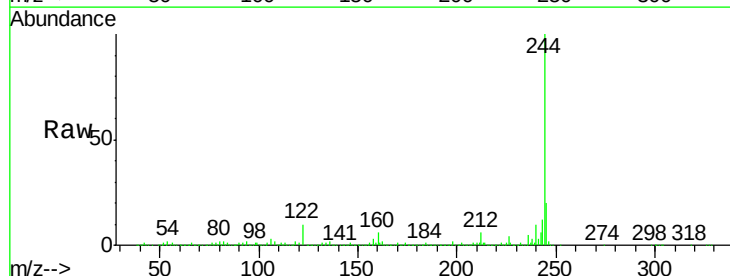
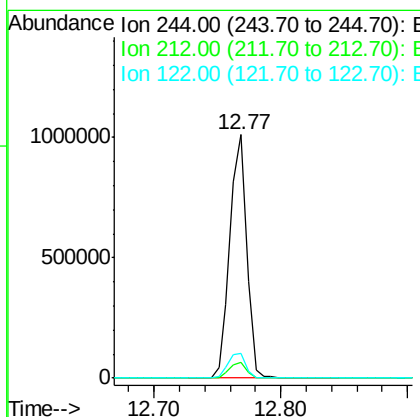
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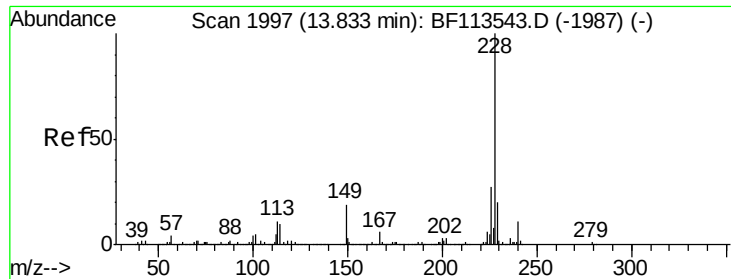
Sohil  
 4/16/2019 5:03:03 PM



#79  
 Terphenyl-d14  
 Concen: 67.414 ng  
 RT: 12.77 min Scan# 1816  
 Delta R.T. -0.02 min  
 Lab File: BF113777.D  
 Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.4   | 5.5   | 8.3   |
| 122     | 10.1  | 8.6   | 13.0  |





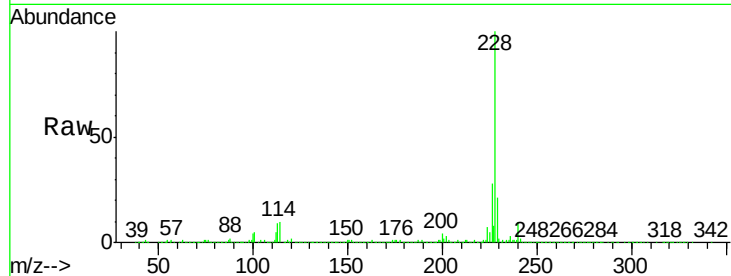
#81  
Benzo(a)anthracene  
Concen: 77.742 ng  
RT: 13.82 min Scan# 1995  
Delta R.T. -0.01 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-041219-B

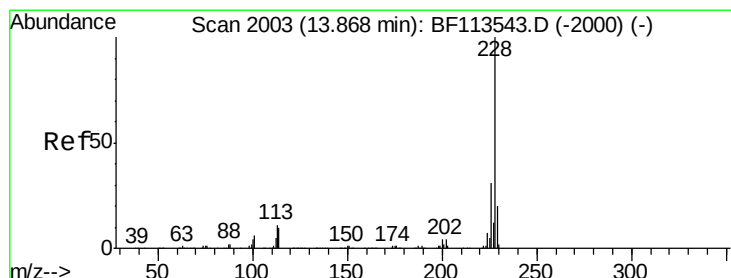
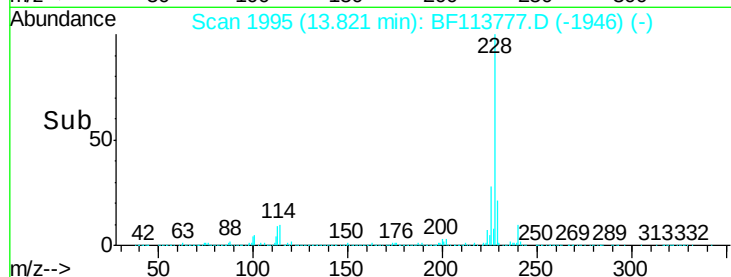
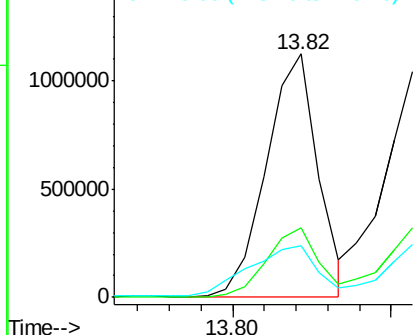
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 21.8  | 32.8  |
| 229     | 20.9  | 16.2  | 24.4  |

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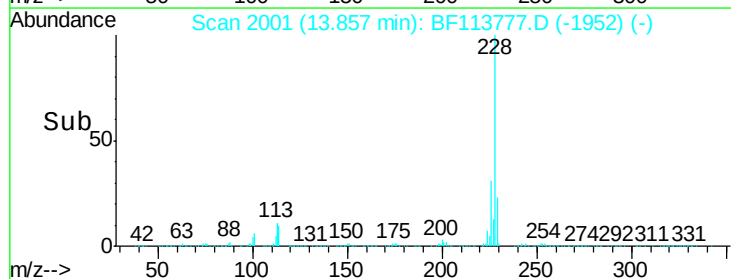
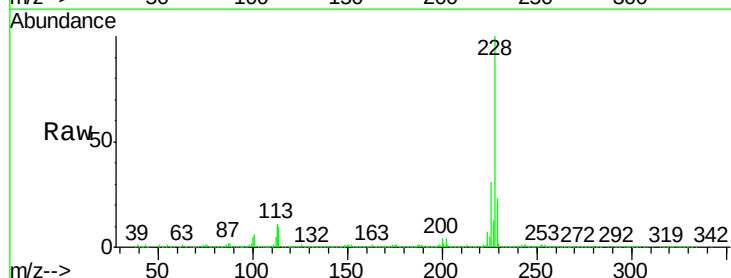
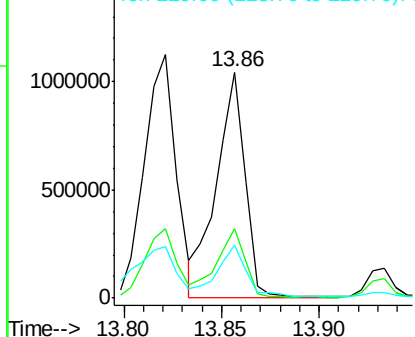
Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

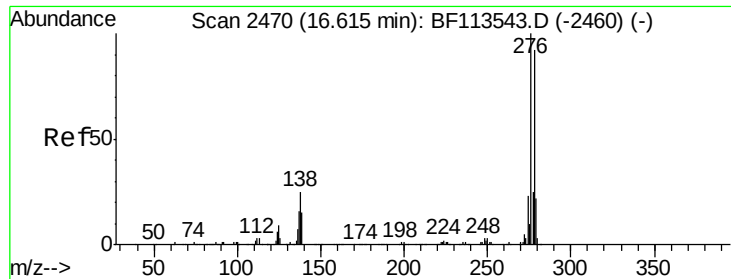


#83  
Chrysene  
Concen: 64.420 ng  
RT: 13.86 min Scan# 2001  
Delta R.T. -0.01 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.8  | 24.3  | 36.5  |
| 229     | 23.4  | 16.3  | 24.5  |

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





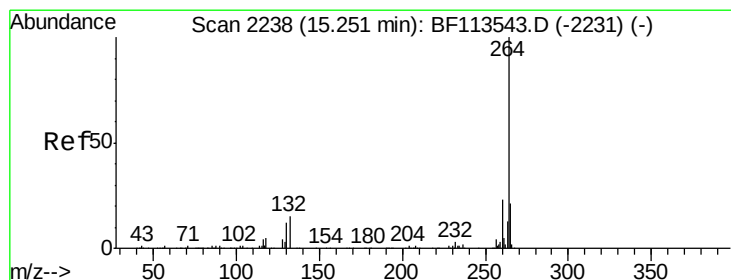
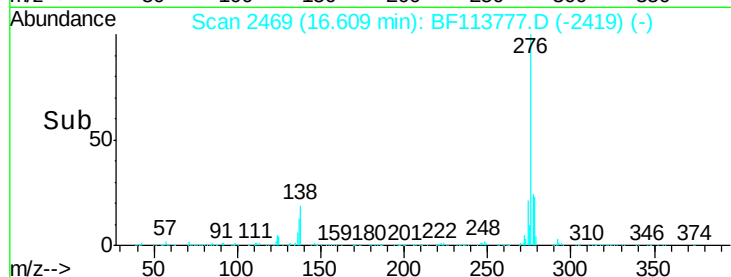
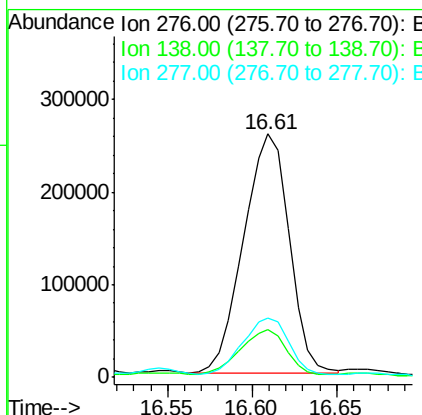
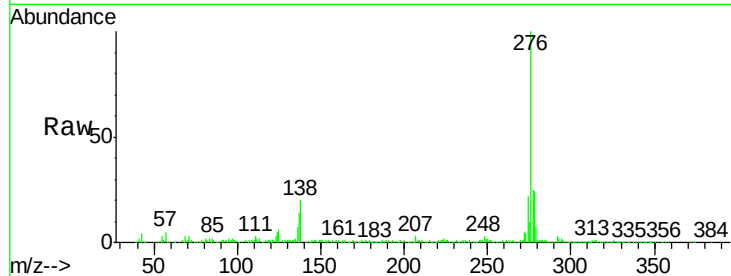
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 32.080 ng  
 RT: 16.61 min Scan# 2469  
 Delta R.T. -0.01 min  
 Lab File: BF113777.D  
 Acq: 15 Apr 2019 22:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-041219-B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 488021 |       |       |
| 138     | 19.6  | 18.1   | 27.1  |       |
| 277     | 24.1  | 20.2   | 30.4  |       |

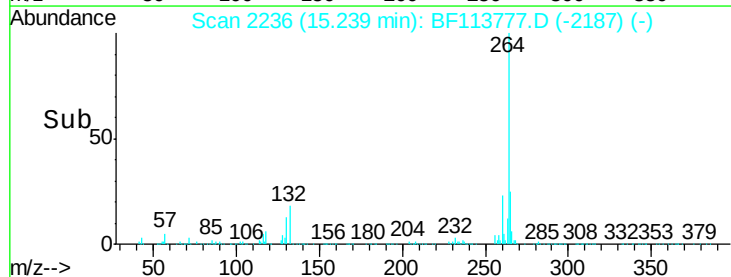
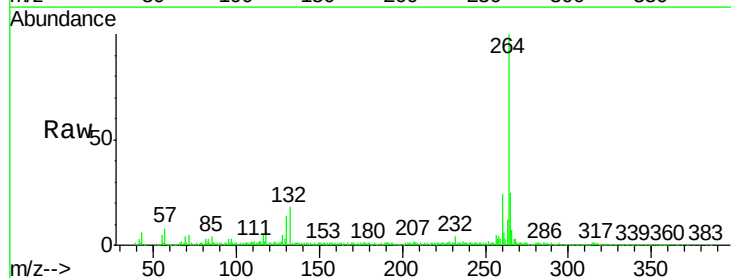
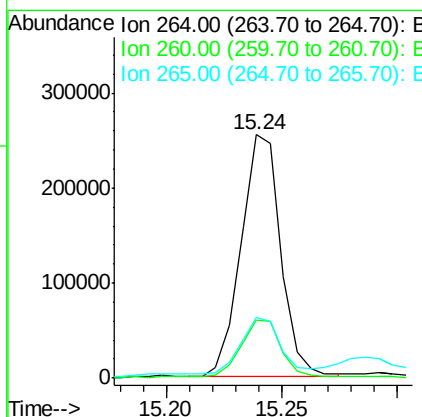
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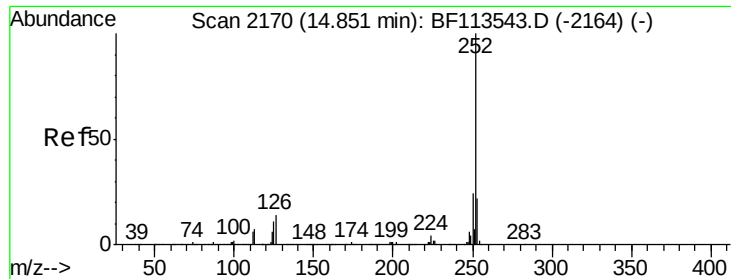


#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.24 min Scan# 2236  
 Delta R.T. -0.01 min  
 Lab File: BF113777.D  
 Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 264     | 100   | 306587 |       |       |
| 260     | 23.7  | 19.1   | 28.7  |       |
| 265     | 25.1  | 17.1   | 25.7  |       |







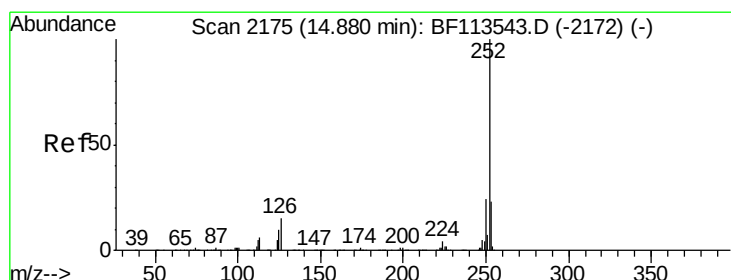
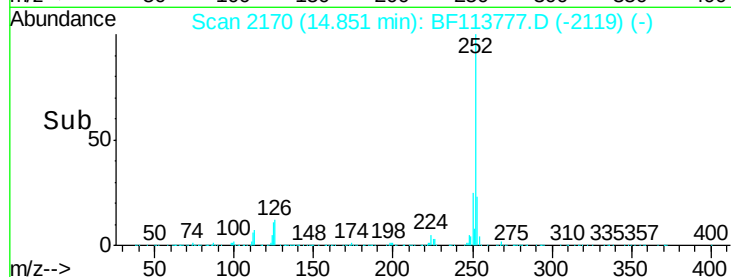
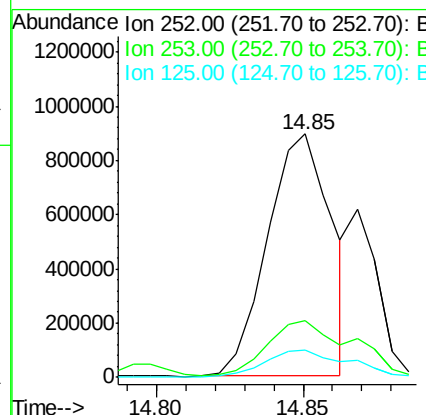
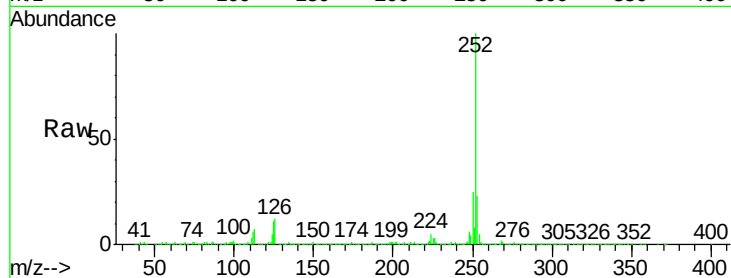
#88  
Benzo(b)fluoranthene  
Concen: 72.186 ng m  
RT: 14.85 min Scan# 2170  
Delta R.T. 0.00 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-041219-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 18.0  | 27.0  |
| 125     | 11.0  | 7.6   | 11.4  |

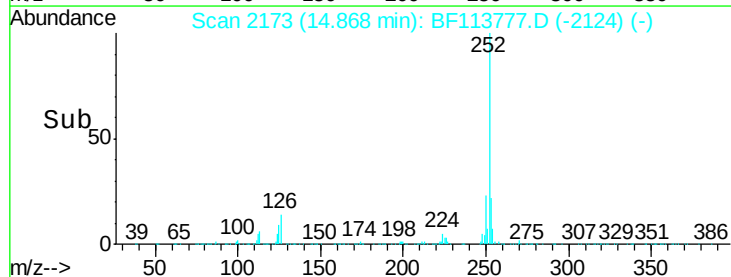
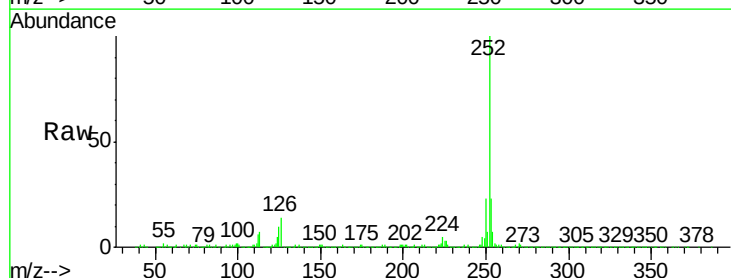
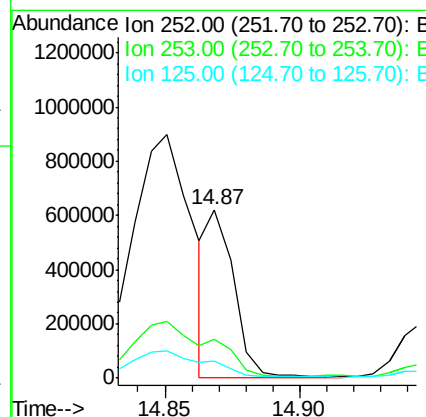
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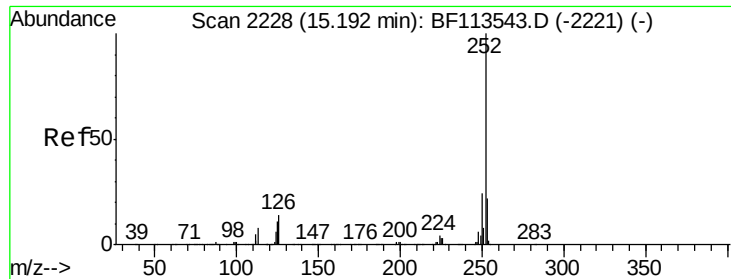
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#89  
Benzo(k)fluoranthene  
Concen: 24.779 ng m  
RT: 14.87 min Scan# 2173  
Delta R.T. -0.01 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.7  | 26.5  |
| 125     | 10.0  | 7.3   | 10.9  |





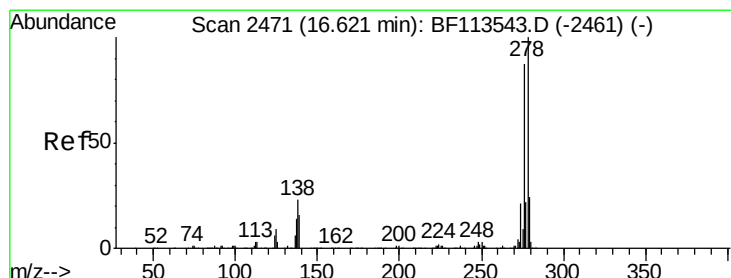
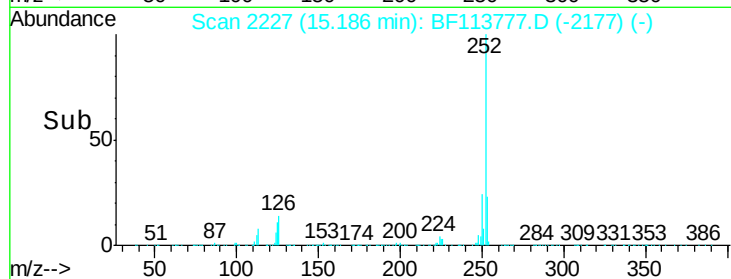
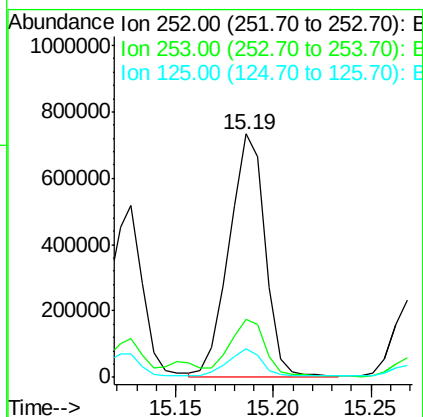
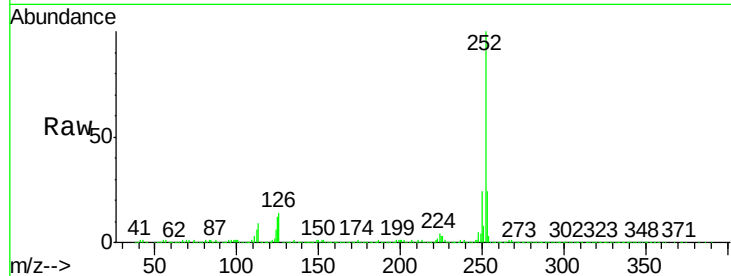
#90  
Benzo(a)pyrene  
Concen: 55.703 ng  
RT: 15.19 min Scan# 2227  
Delta R.T. -0.01 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-041219-B

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 24.0  | 17.9       | 26.9       |
| 125     | 11.6  | 8.8        | 13.2       |

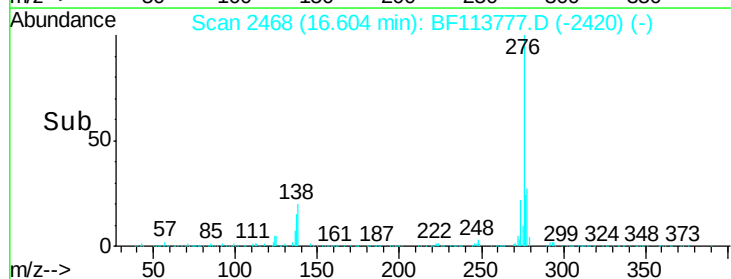
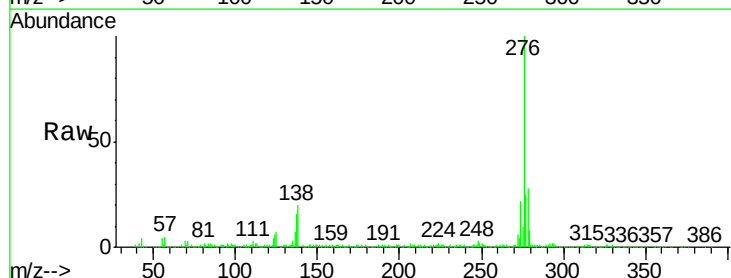
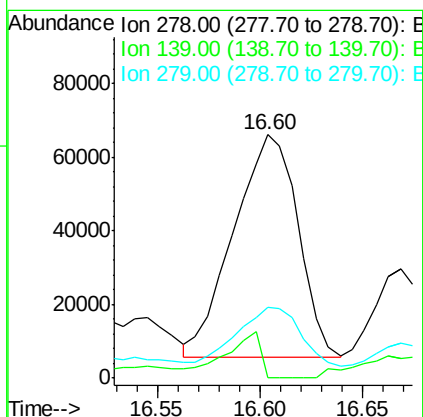
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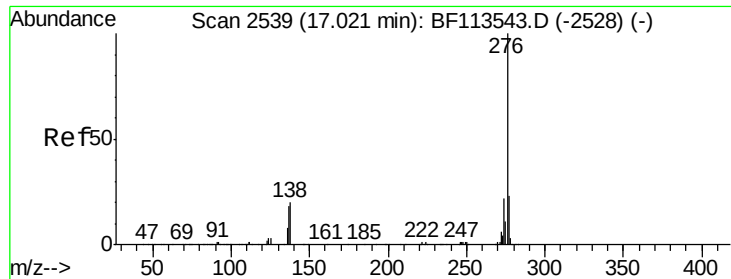
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#91  
Dibenzo(a,h)anthracene  
Concen: 8.375 ng m  
RT: 16.60 min Scan# 2468  
Delta R.T. -0.02 min  
Lab File: BF113777.D  
Acq: 15 Apr 2019 22:00

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 278     | 100   |            |            |
| 139     | 0.0   | 12.0       | 18.0#      |
| 279     | 28.8  | 19.0       | 28.6#      |





#92  
 Benzo(g,h,i)perylene  
 Concen: 27.132 ng  
 RT: 17.02 min Scan# 2539  
 Delta R.T. 0.00 min  
 Lab File: BF113777.D  
 Acq: 15 Apr 2019 22:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-041219-B

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 276  | Resp: | 431866 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 277       | 25.5 | 18.8  | 28.2   |
| 138       | 20.7 | 15.6  | 23.4   |

Manual Integrations  
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