

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091619\  
 Data File : BF117078.D  
 Acq On : 16 Sep 2019 23:18  
 Operator : HP/JU  
 Sample : K4846-06 2X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-22-COMP

Manual Integrations  
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 9/17/2019 1:26:06 PM

Quant Time: Sep 17 07:53:58 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 13 16:23:17 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.83  | 152  | 59728    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.10  | 136  | 240220   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.85  | 164  | 109853   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.34 | 188  | 156329   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.97 | 240  | 111190   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.42 | 264  | 83505    | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.45  | 112  | 143645   | 37.55  | ng    | 0.00     |
| 7) Phenol-d6                | 6.46  | 99   | 209295   | 42.33  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 120772   | 26.42  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.64 | 330  | 33252    | 36.22  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.17  | 172  | 223989   | 31.88  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.92 | 244  | 190041   | 31.95  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.13  | 128  | 421523   | 36.486 | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.82  | 142  | 399854   | 51.397 | ng    | 98       |
| 38) 1-Methylnaphthalene     | 8.92  | 142  | 360092   | 49.420 | ng    | 97       |
| 46) 1,1'-Biphenyl           | 9.27  | 154  | 38700    | 4.491  | ng    | 95       |
| 49) Acenaphthylene          | 9.72  | 152  | 45563    | 4.472  | ng    | # 77     |
| 50) Dimethylphthalate       | 9.57  | 163  | 17289    | 2.223  | ng    | # 95     |
| 52) Acenaphthene            | 9.89  | 154  | 44981    | 7.448  | ng    | 93       |
| 55) Dibenzofuran            | 10.06 | 168  | 18185    | 2.041  | ng    | # 31     |
| 58) Fluorene                | 10.40 | 166  | 147353   | 20.530 | ng    | 99       |
| 71) Phenanthrene            | 11.36 | 178  | 680168   | 76.601 | ng    | 99       |
| 72) Anthracene              | 11.41 | 178  | 79008    | 8.715  | ng    | 98       |
| 75) Fluoranthene            | 12.55 | 202  | 298417   | 32.708 | ng    | 97       |
| 78) Pylene                  | 12.78 | 202  | 519773   | 55.712 | ng    | 100      |
| 81) Benzo(a)anthracene      | 13.96 | 228  | 150409   | 20.247 | ng    | # 94     |
| 83) Chrysene                | 14.00 | 228  | 178647   | 24.657 | ng    | # 95     |
| 86) Indeno(1,2,3-cd)pyrene  | 16.85 | 276  | 26507    | 5.015  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.00 | 252  | 69838m   | 13.807 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.02 | 252  | 16434m   | 3.430  | ng    |          |
| 90) Benzo(a)pyrene          | 15.36 | 252  | 63735    | 14.359 | ng    | 94       |
| 91) Dibenzo(a,h)anthracene  | 16.86 | 278  | 8869     | 2.508  | ng    | # 73     |
| 92) Benzo(g,h,i)perylene    | 17.29 | 276  | 33173    | 9.415  | ng    | 99       |

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

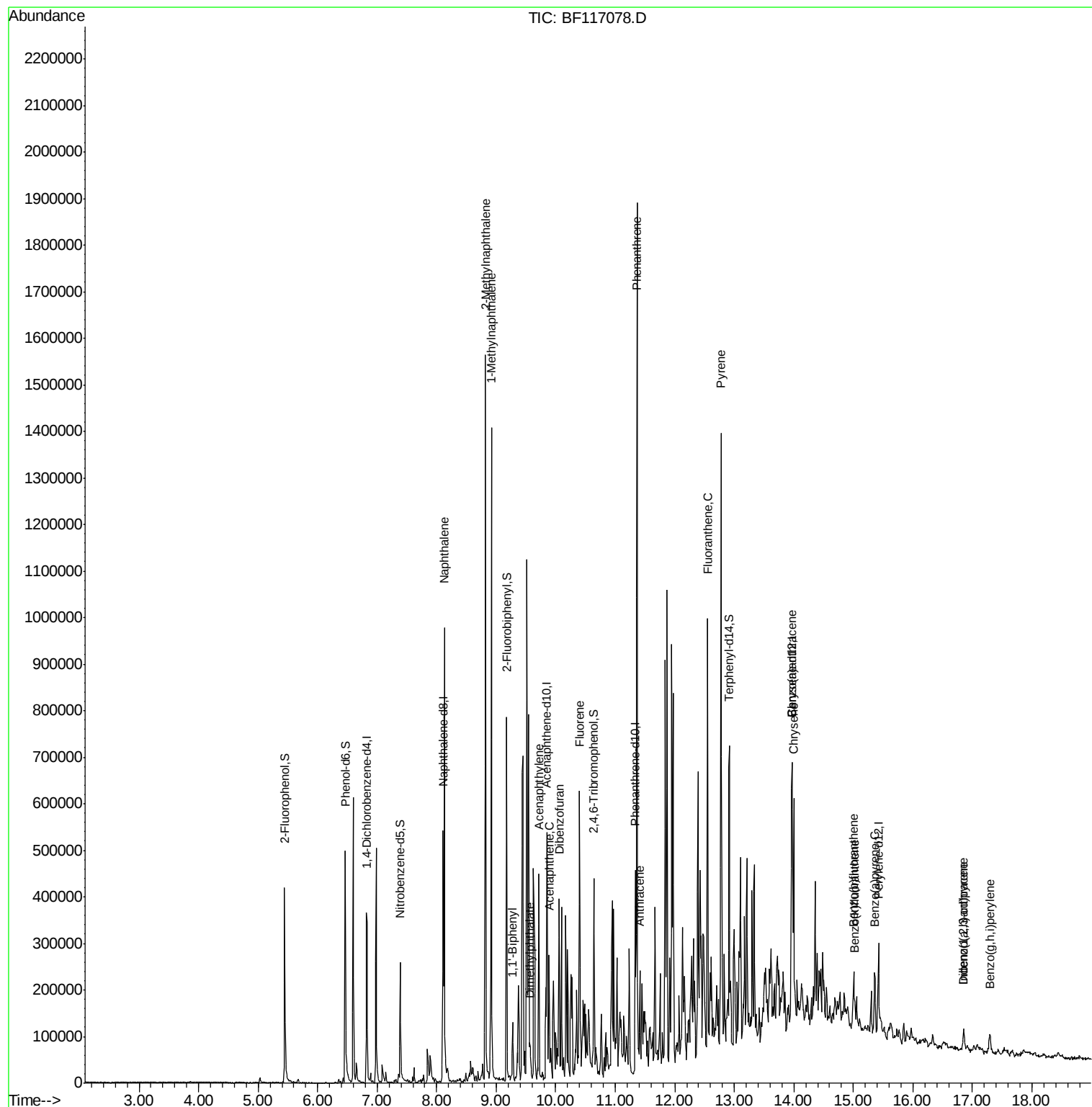
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091619\  
Data File : BF117078.D  
Acq On : 16 Sep 2019 23:18  
Operator : HP/JU  
Sample : K4846-06 2X  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

Manual Integrations  
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Quant Time: Sep 17 07:53:58 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 13 16:23:17 2019  
Response via : Initial Calibration





#1

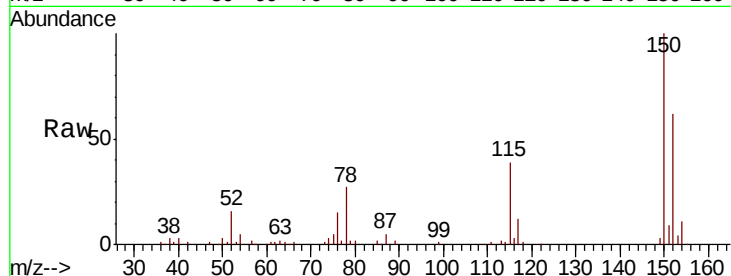
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 806  
Delta R.T. 0.01 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.0 | 127.5 | 191.3 |
| 115     | 62.4  | 55.0  | 82.4  |

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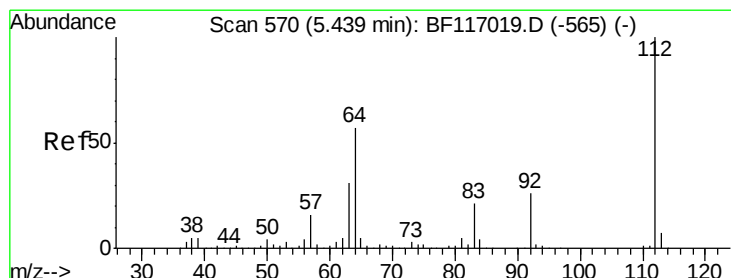
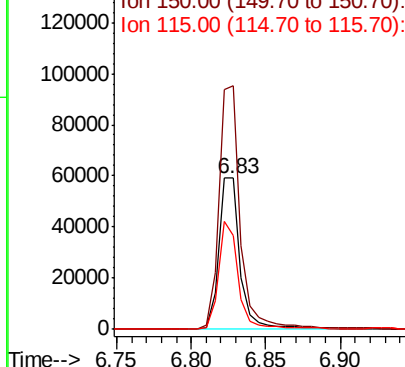
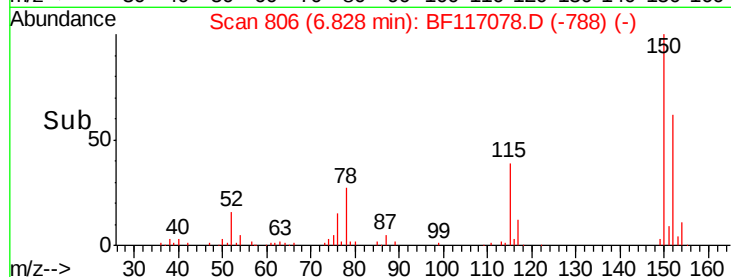


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

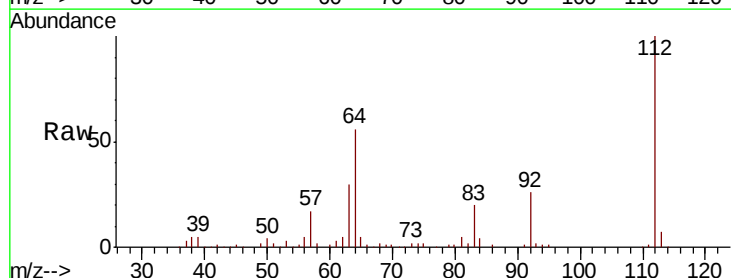
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 37.548 ng  
RT: 5.45 min Scan# 571  
Delta R.T. 0.01 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.1  | 45.7  | 68.5  |
| 63      | 30.0  | 24.9  | 37.3  |

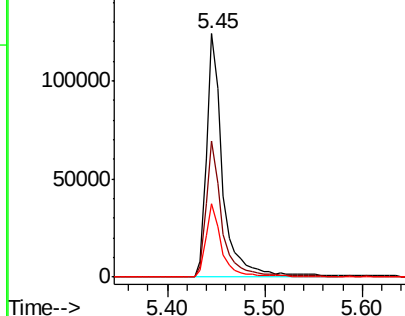
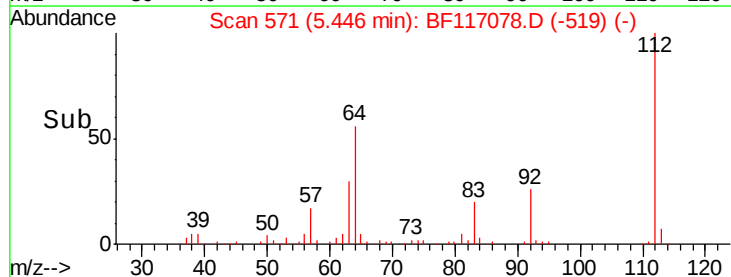


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 42.332 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.01 min

Lab File: BF117078.D

Acq: 16 Sep 2019 23:18

Instrument :

BNA\_F

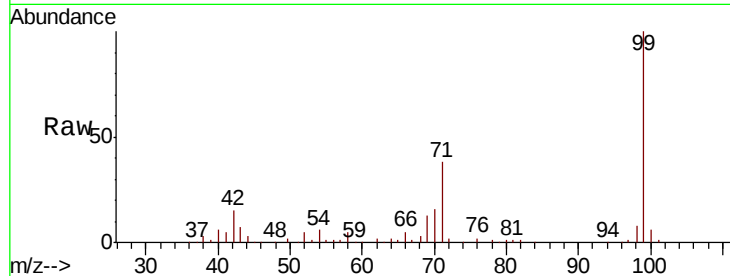
ClientSampleId :

SB-22-COMP

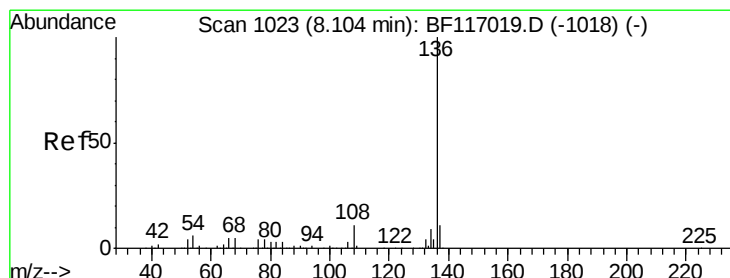
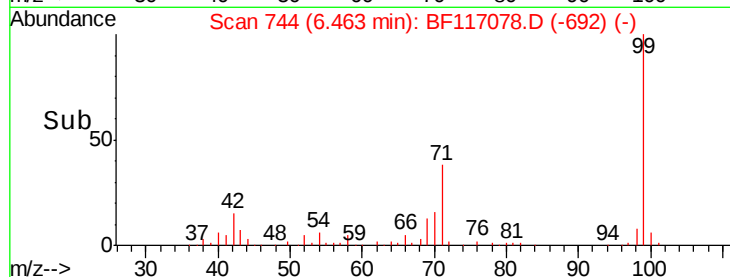
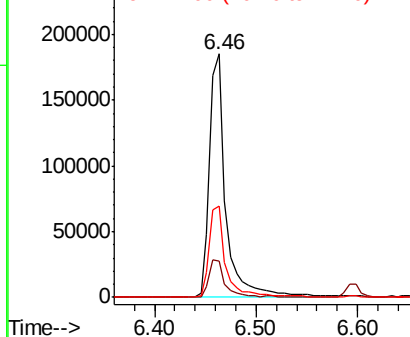
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 209295 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 15.0  | 12.2  | 18.2   |
| 71        | 37.5  | 29.8  | 44.8   |

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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1023

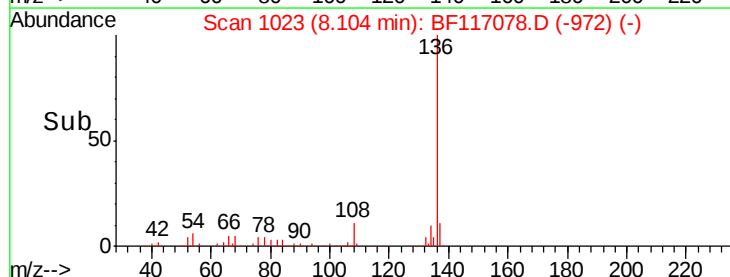
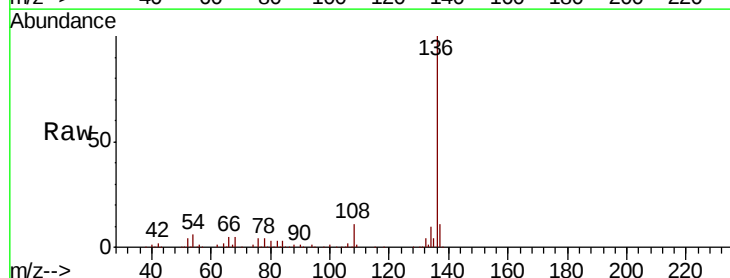
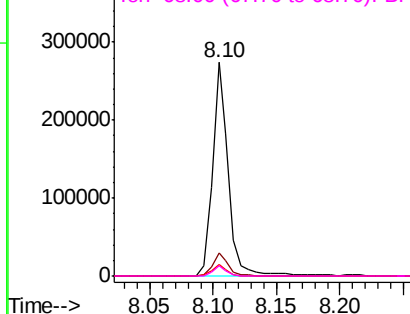
Delta R.T. 0.00 min

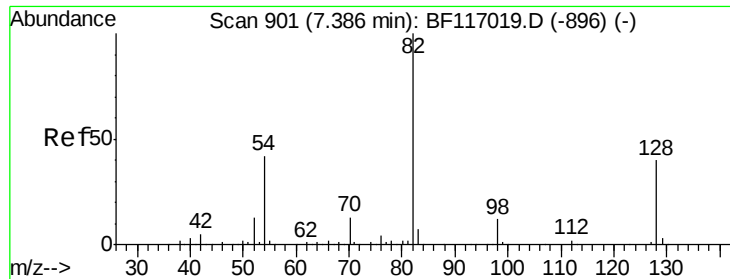
Lab File: BF117078.D

Acq: 16 Sep 2019 23:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 240220 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 9.0   | 13.4   |
| 54        | 5.7   | 4.5   | 6.7    |
| 68        | 4.8   | 4.0   | 6.0    |

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): BF1  
Ion 68.00 (67.70 to 68.70): BF1





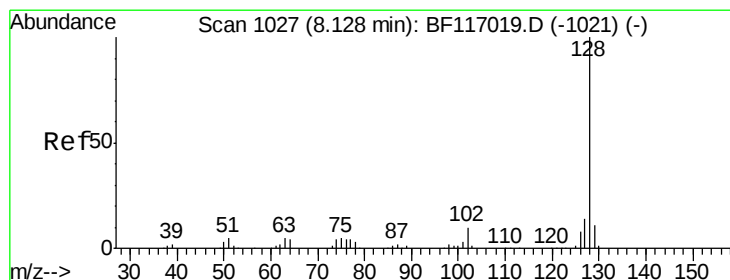
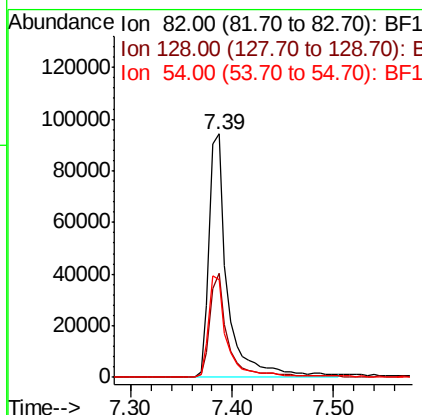
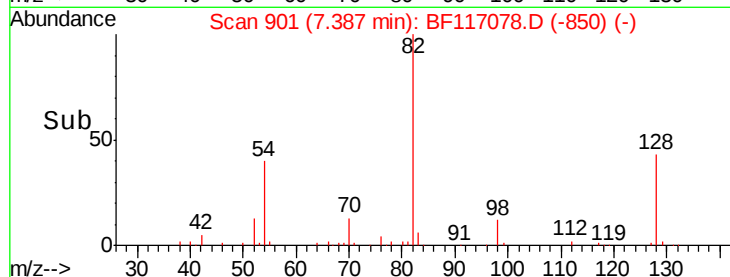
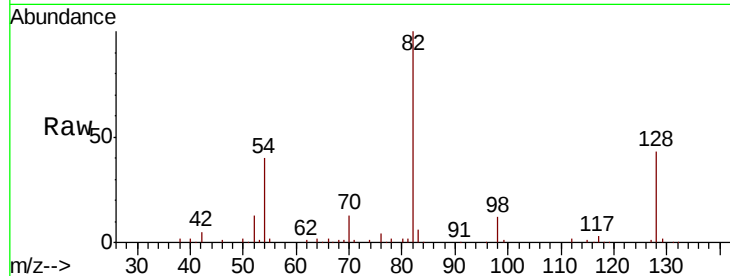
#23  
 Nitrobenzene-d5  
 Concen: 26.416 ng  
 RT: 7.39 min Scan# 901  
 Delta R.T. 0.00 min  
 Lab File: BF117078.D  
 Acq: 16 Sep 2019 23:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-22-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.6  | 32.3  | 48.5  |
| 54      | 39.9  | 33.3  | 49.9  |

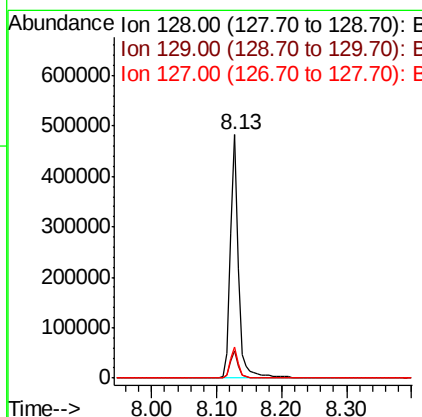
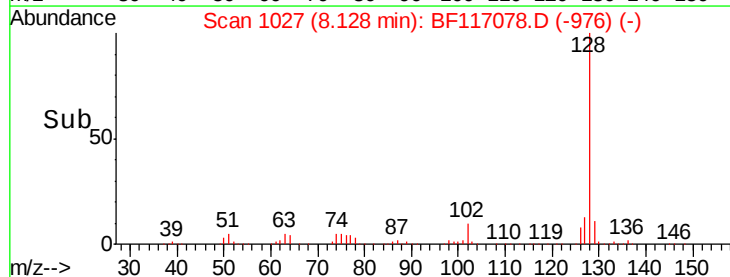
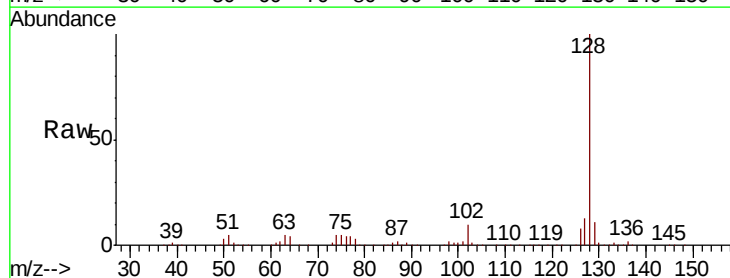
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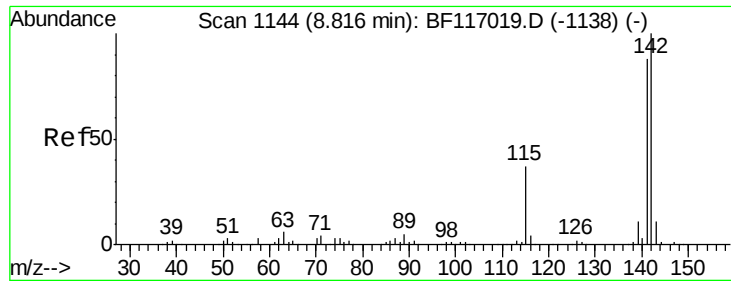
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#31  
 Naphthalene  
 Concen: 36.486 ng  
 RT: 8.13 min Scan# 1027  
 Delta R.T. 0.00 min  
 Lab File: BF117078.D  
 Acq: 16 Sep 2019 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.1  | 9.0   | 13.4  |
| 127     | 12.9  | 10.8  | 16.2  |





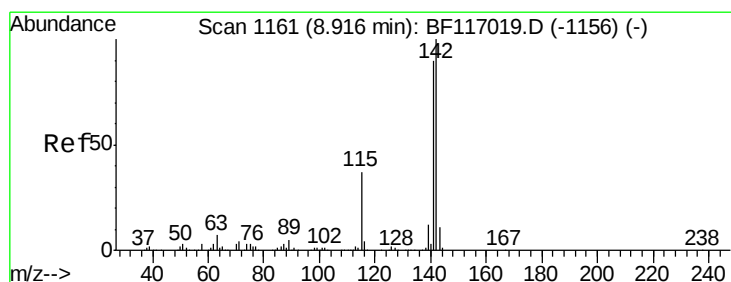
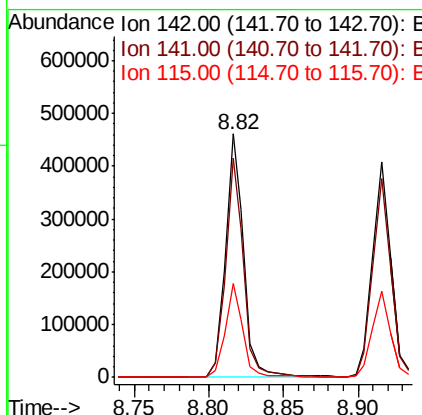
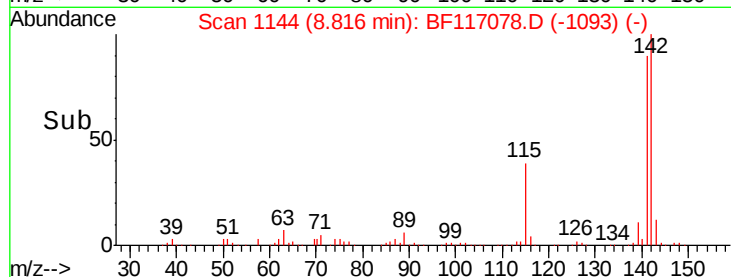
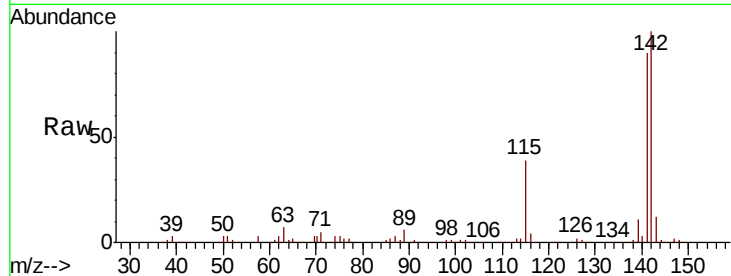
#37  
2-Methylnaphthalene  
Concen: 51.397 ng  
RT: 8.82 min Scan# 1144  
Delta R.T. 0.00 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.0  | 70.7  | 106.1 |
| 115     | 38.6  | 29.4  | 44.0  |

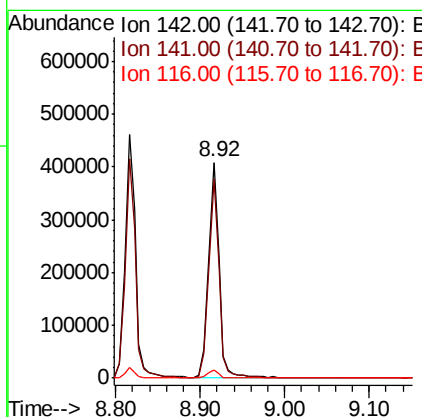
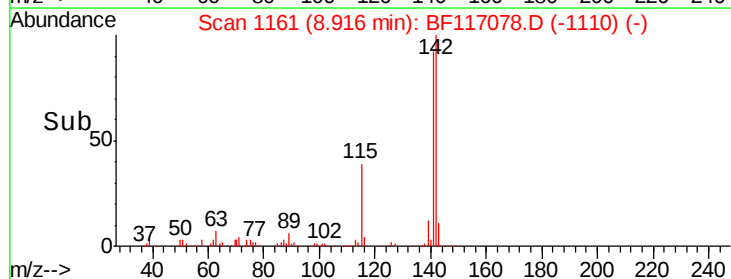
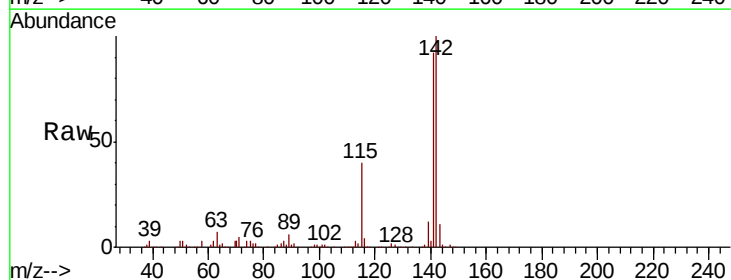
Manual Integrations  
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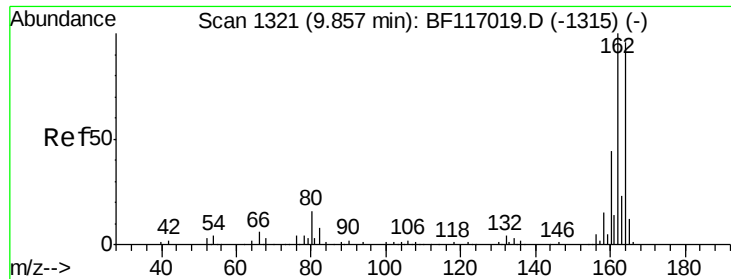
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#38  
1-Methylnaphthalene  
Concen: 49.420 ng  
RT: 8.92 min Scan# 1161  
Delta R.T. 0.00 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.4  | 71.9  | 107.9 |
| 116     | 4.0   | 3.2   | 4.8   |





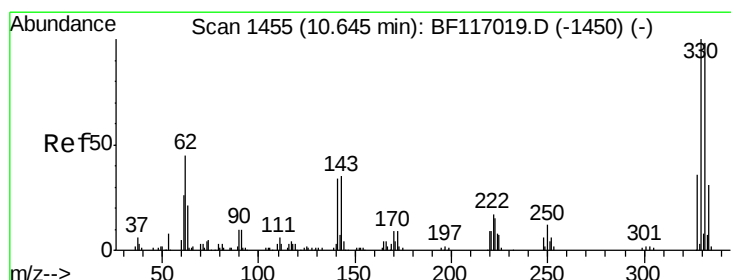
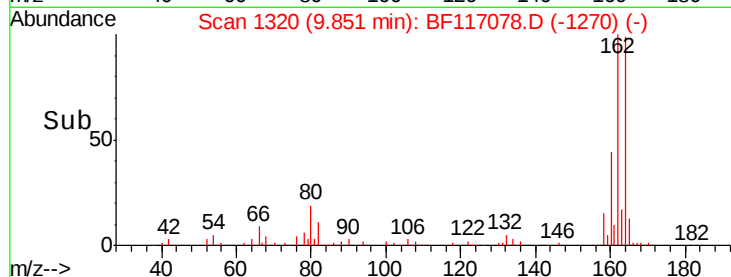
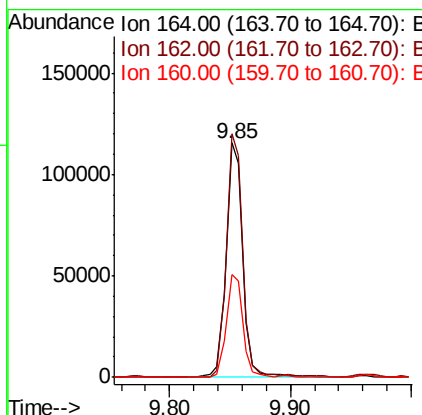
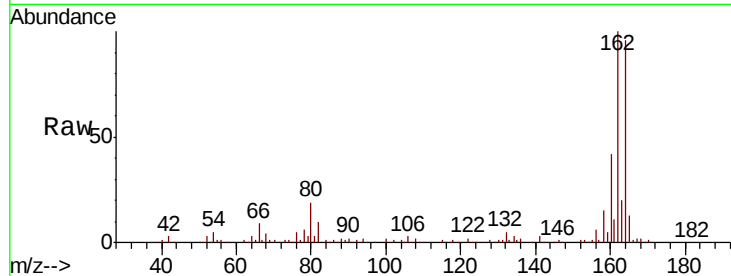
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.85 min Scan# 1320  
Delta R.T. -0.01 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 103.9 | 83.4 | 125.2 |       |
| 160     | 43.9  | 36.4 | 54.6  |       |

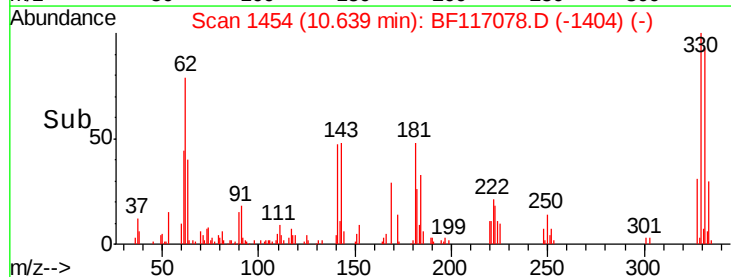
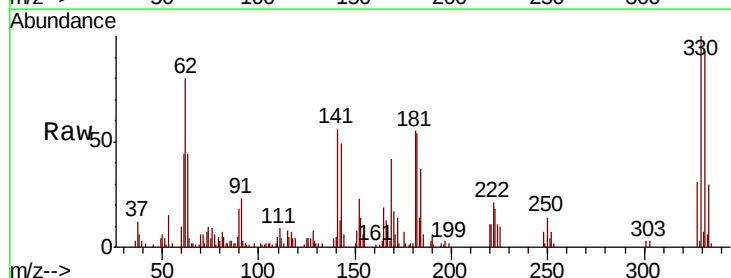
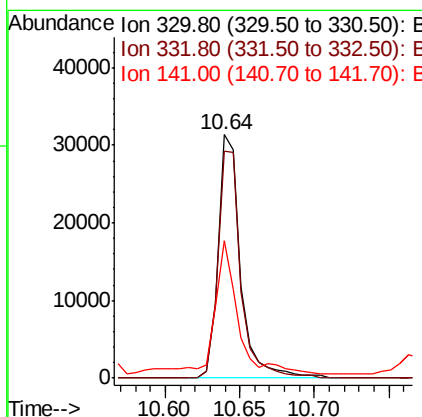
Manual Integrations  
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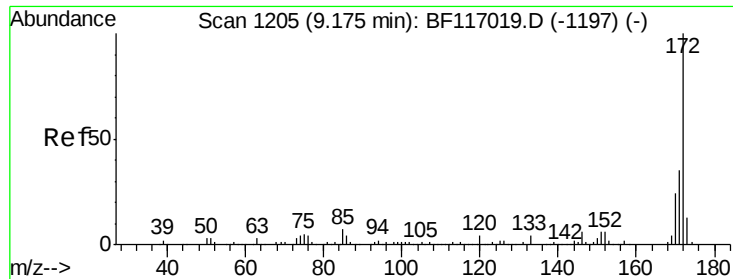
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#42  
2,4,6-Tribromophenol  
Concen: 36.218 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. -0.01 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 95.3  | 78.0 | 117.0 |       |
| 141     | 58.5  | 35.8 | 53.6  |       |





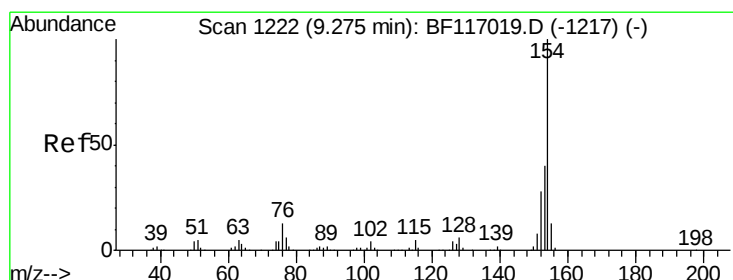
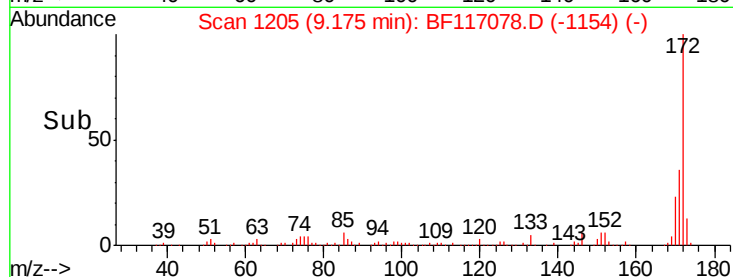
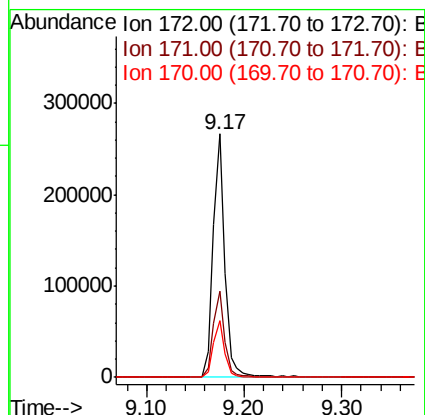
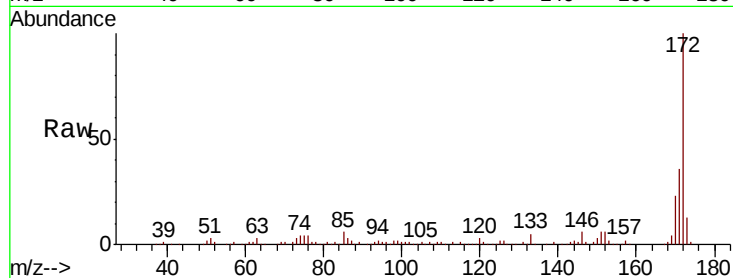
#45  
2-Fluorobiphenyl  
Concen: 31.881 ng  
RT: 9.17 min Scan# 1205  
Delta R.T. 0.00 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 223989 |       |       |
| 171     | 35.7  |        | 28.2  | 42.2  |
| 170     | 23.1  |        | 18.9  | 28.3  |

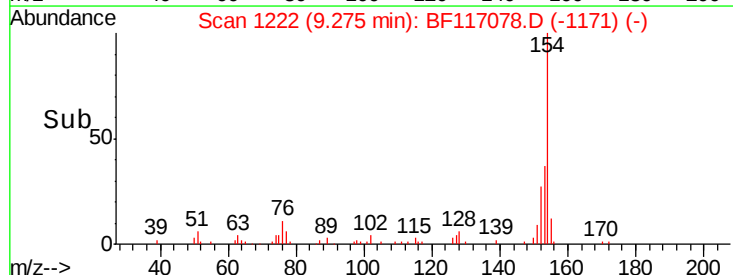
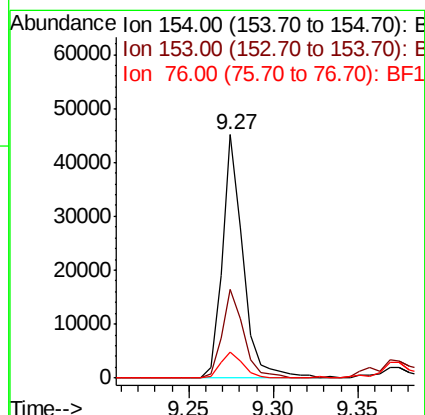
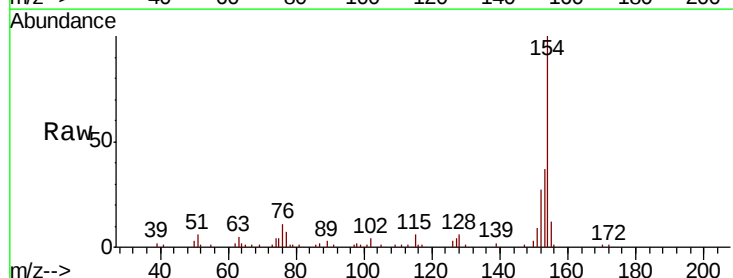
Manual Integrations  
APPROVED

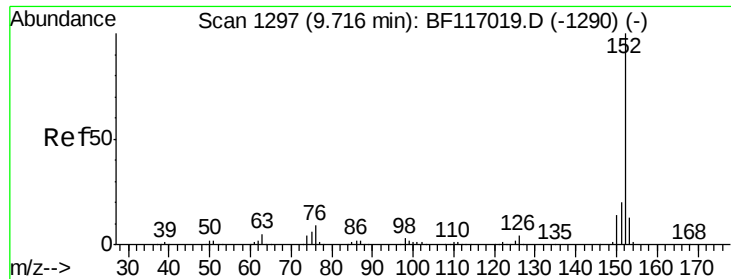
mohammad  
9/17/2019 1:26:06 PM



#46  
1,1'-Biphenyl  
Concen: 4.491 ng  
RT: 9.27 min Scan# 1222  
Delta R.T. 0.00 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 38700 |       |       |
| 153     | 36.5  |       | 20.0  | 60.0  |
| 76      | 10.9  |       | 0.0   | 32.7  |





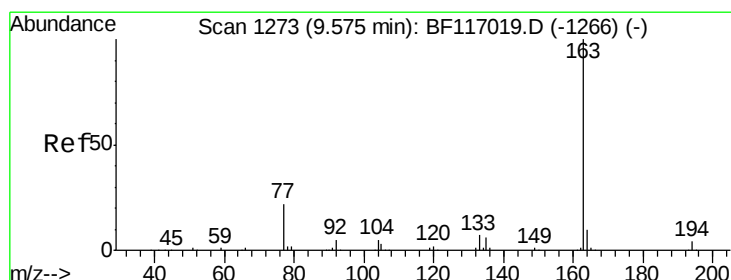
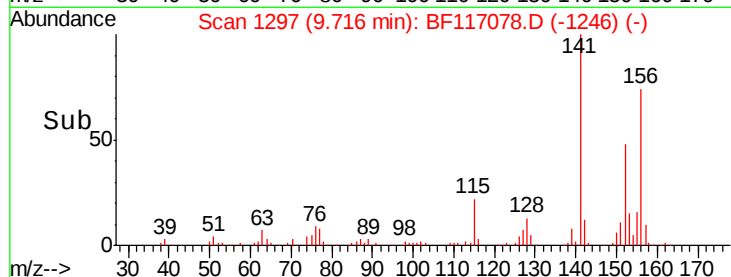
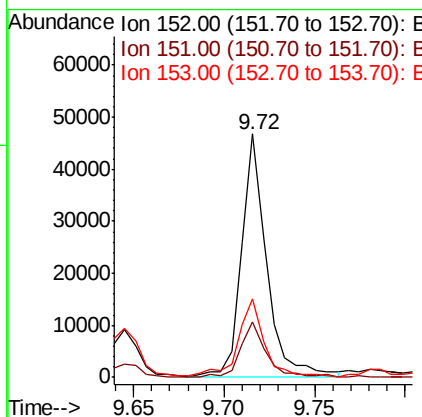
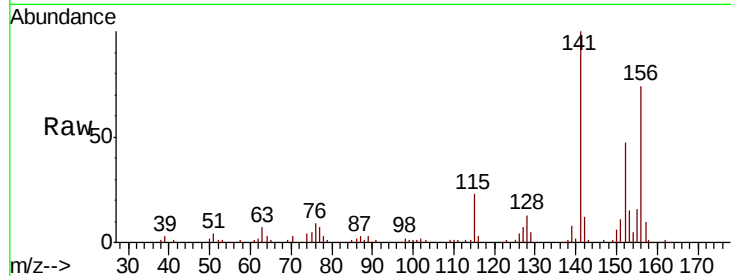
#49  
Acenaphthylene  
Concen: 4.472 ng  
RT: 9.72 min Scan# 1297  
Delta R.T. 0.00 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 22.9  | 16.2  | 24.2  |
| 153     | 32.2  | 10.2  | 15.4# |

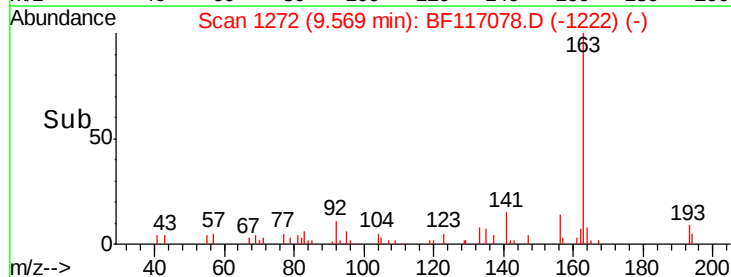
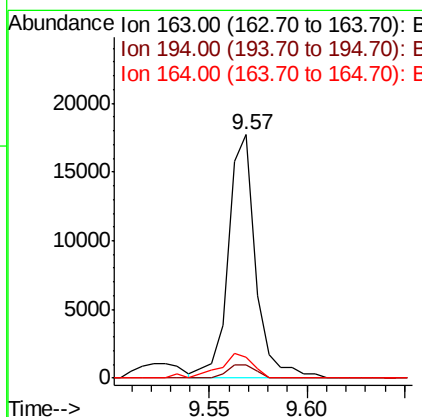
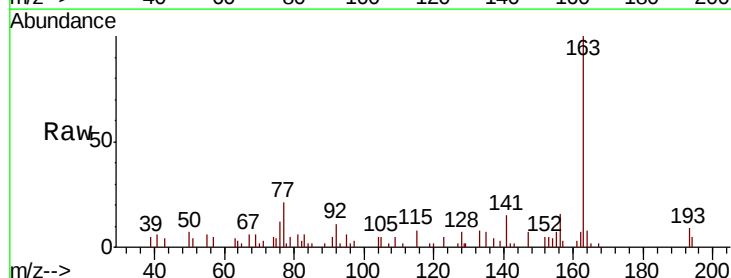
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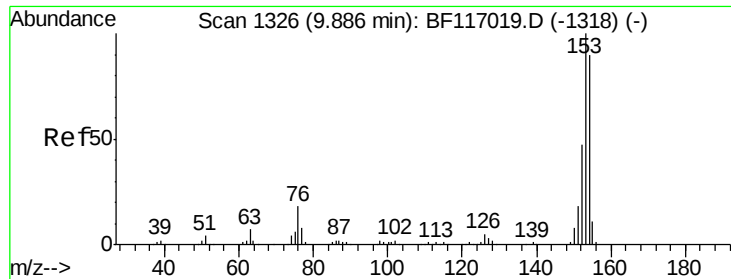
mohammad  
9/17/2019 1:26:06 PM



#50  
Dimethylphthalate  
Concen: 2.223 ng  
RT: 9.57 min Scan# 1272  
Delta R.T. -0.01 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.3   | 2.9   | 4.3#  |
| 164     | 8.5   | 8.2   | 12.4  |





#52

Acenaphthene

Concen: 7.448 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.00 min

Lab File: BF117078.D

Acq: 16 Sep 2019 23:18

Instrument :

BNA\_F

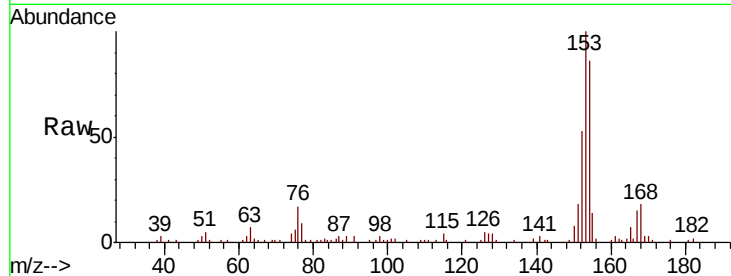
ClientSampleId :

SB-22-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 44981 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 116.2 | 89.0  | 133.6 |
| 152       | 62.0  | 41.9  | 62.9  |

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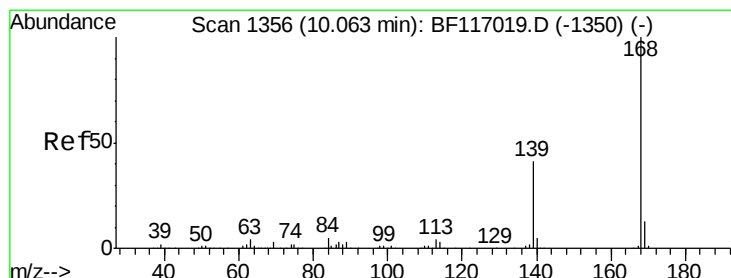
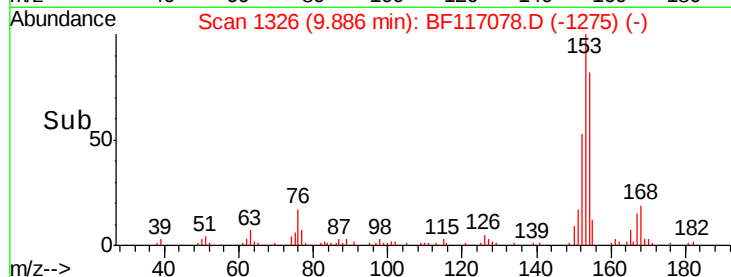
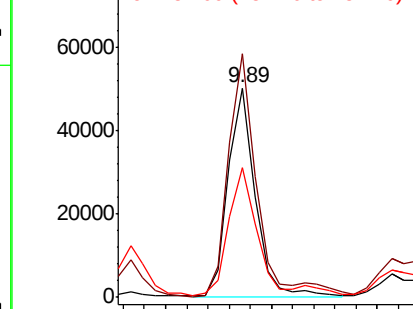


Abundance

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



#55

Dibenzofuran

Concen: 2.041 ng

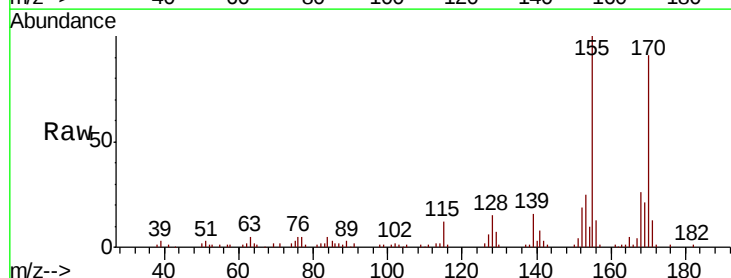
RT: 10.06 min Scan# 1355

Delta R.T. -0.01 min

Lab File: BF117078.D

Acq: 16 Sep 2019 23:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 18185 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 63.0  | 32.8  | 49.2# |
| 169       | 82.7  | 10.5  | 15.7# |

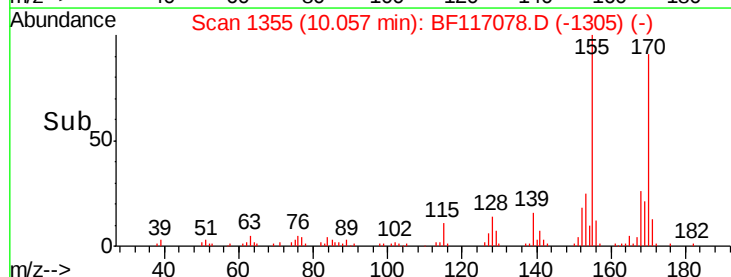
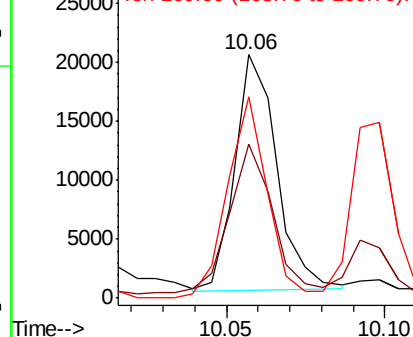


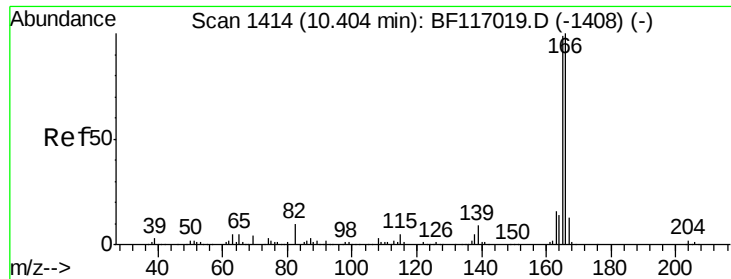
Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





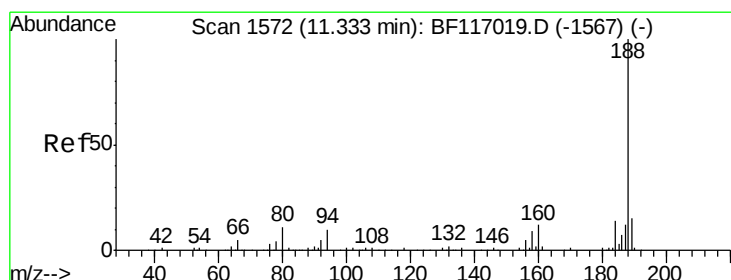
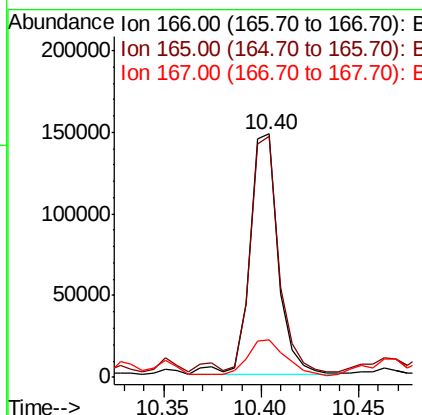
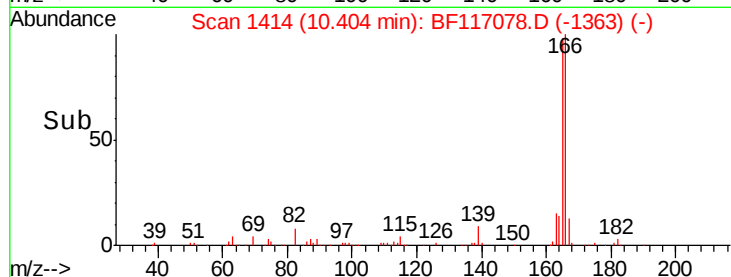
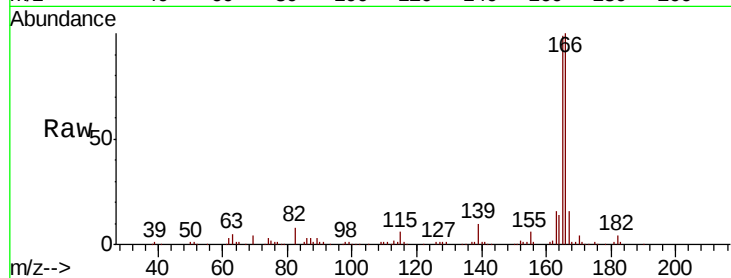
#58  
 Fluorene  
 Concen: 20.530 ng  
 RT: 10.40 min Scan# 1414  
 Delta R.T. 0.00 min  
 Lab File: BF117078.D  
 Acq: 16 Sep 2019 23:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-22-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.0  | 78.9  | 118.3 |
| 167     | 15.6  | 10.6  | 15.8  |

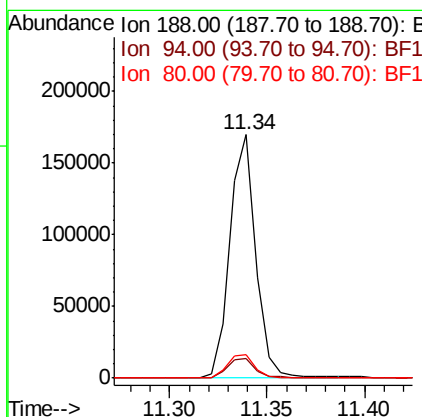
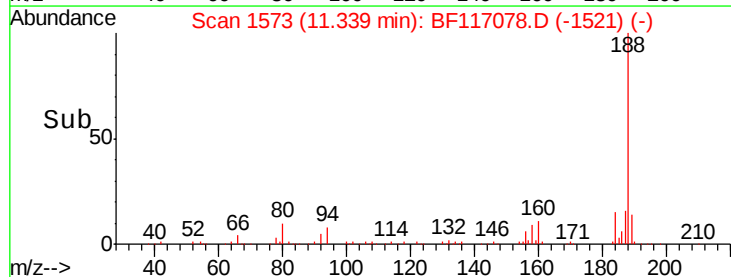
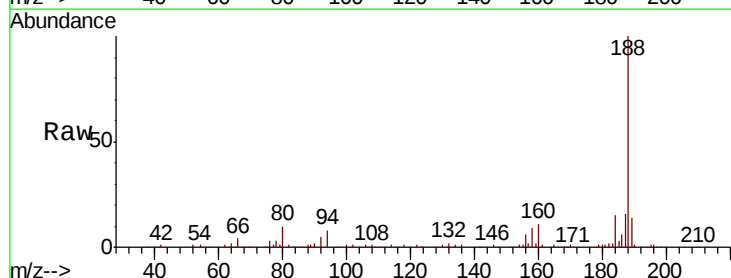
Manual Integrations  
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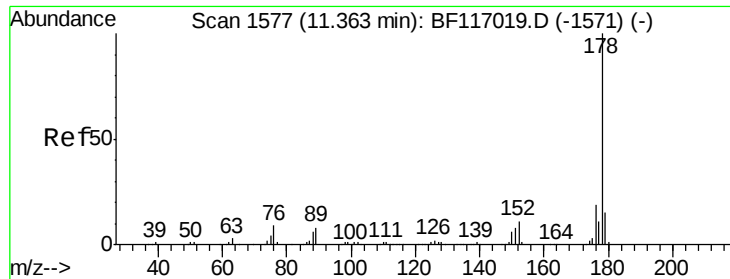
mohammad  
 9/17/2019 1:26:06 PM



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.34 min Scan# 1573  
 Delta R.T. 0.01 min  
 Lab File: BF117078.D  
 Acq: 16 Sep 2019 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.9   | 8.2   | 12.2# |
| 80      | 9.6   | 9.0   | 13.6  |





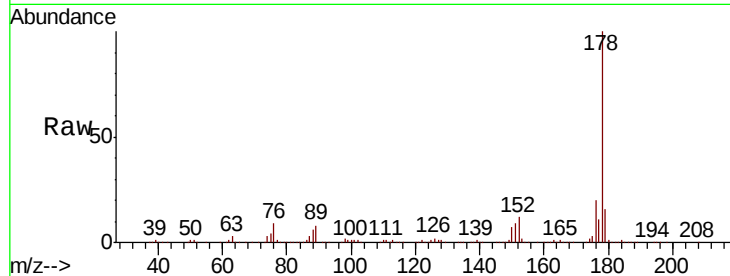
#71  
Phenanthrene  
Concen: 76.601 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. 0.00 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.7  | 15.4  | 23.2  |
| 179     | 16.1  | 12.4  | 18.6  |

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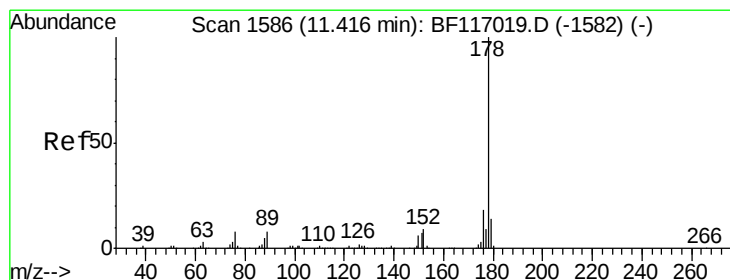
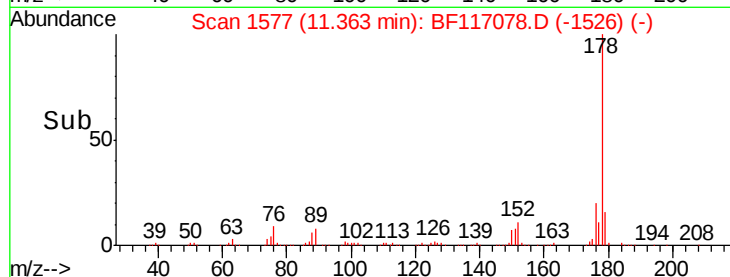
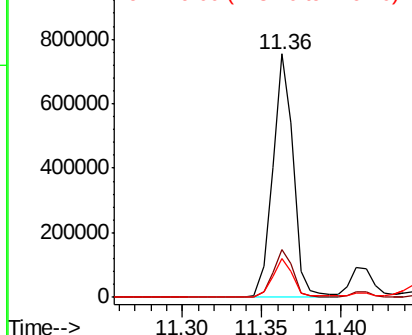


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72  
Anthracene  
Concen: 8.715 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. -0.01 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

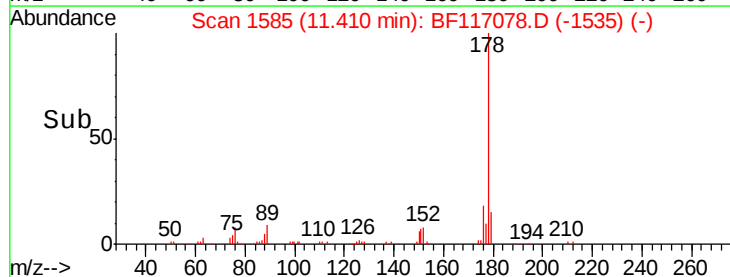
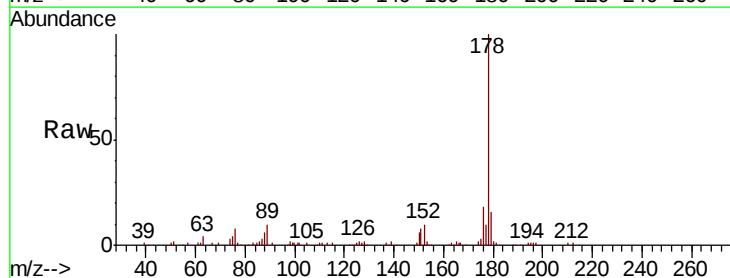
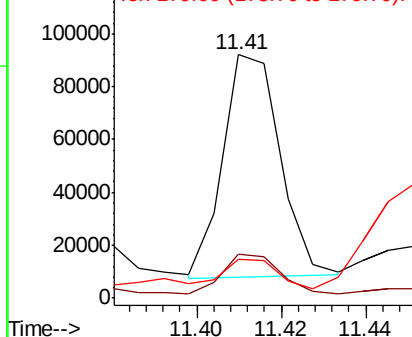
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.8  | 14.6  | 21.8  |
| 179     | 15.9  | 11.6  | 17.4  |

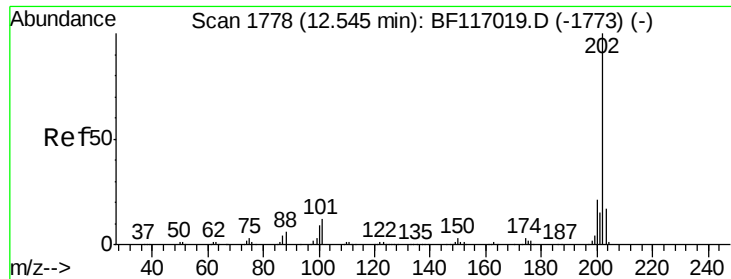
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 32.708 ng

RT: 12.55 min Scan# 1779

Delta R.T. 0.01 min

Lab File: BF117078.D

Acq: 16 Sep 2019 23:18

Instrument :

BNA\_F

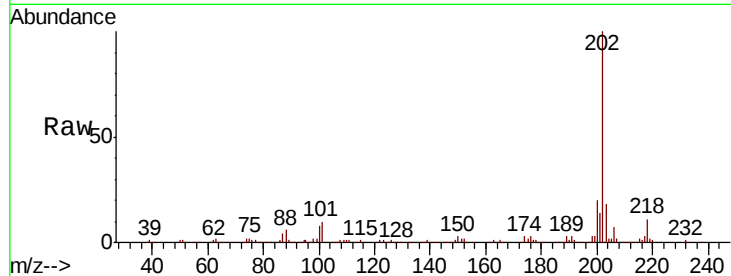
ClientSampleId :

SB-22-COMP

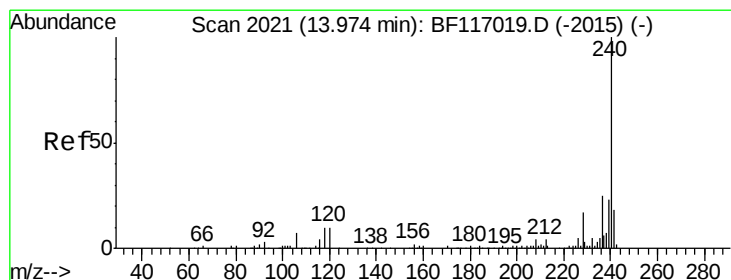
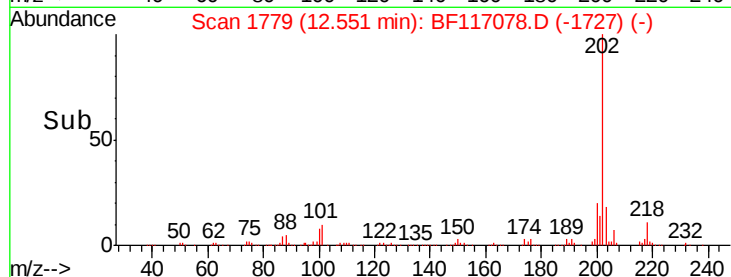
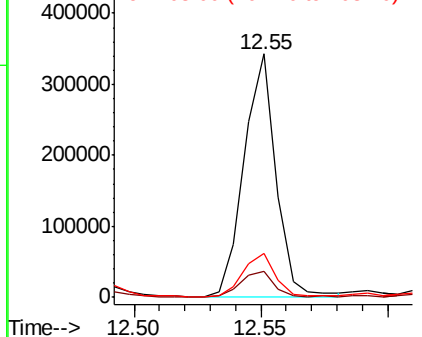
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.4  | 0.0        | 32.3  |
| 203     | 18.2  | 0.0        | 37.1  |

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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: 13.97 min Scan# 2021

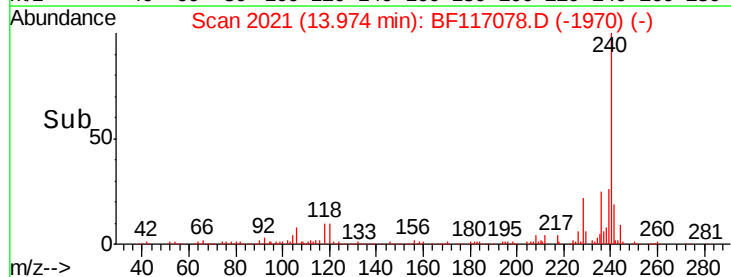
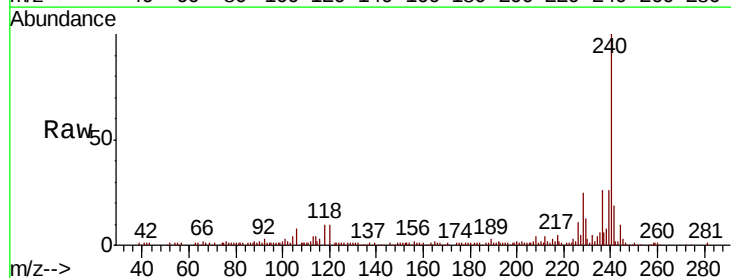
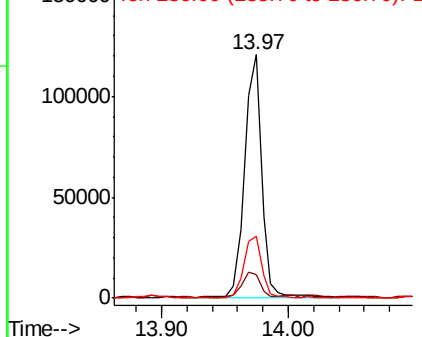
Delta R.T. 0.00 min

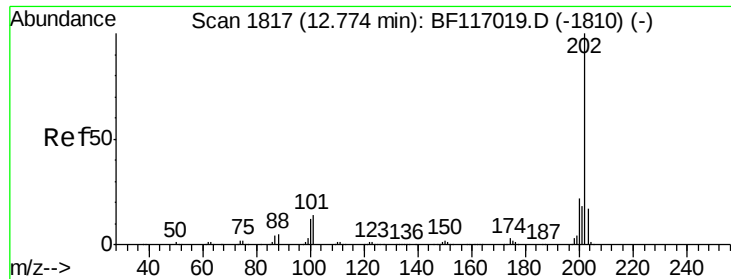
Lab File: BF117078.D

Acq: 16 Sep 2019 23:18

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 9.8   | 8.3        | 12.5  |
| 236     | 25.6  | 20.3       | 30.5  |

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





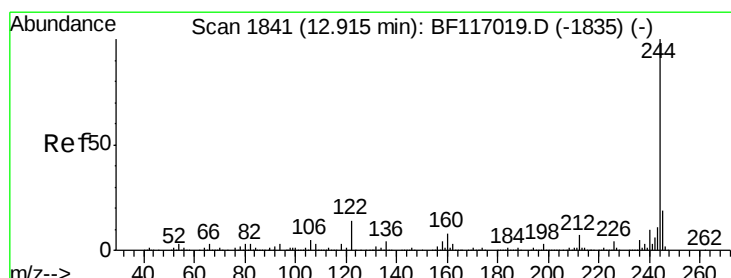
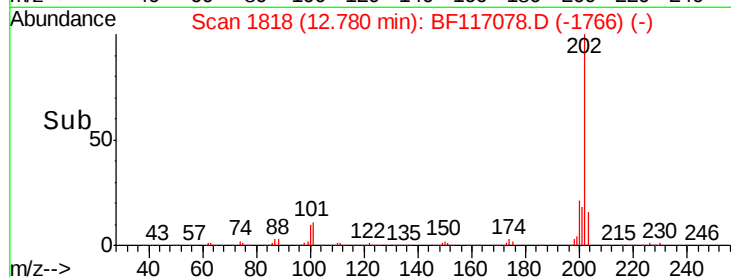
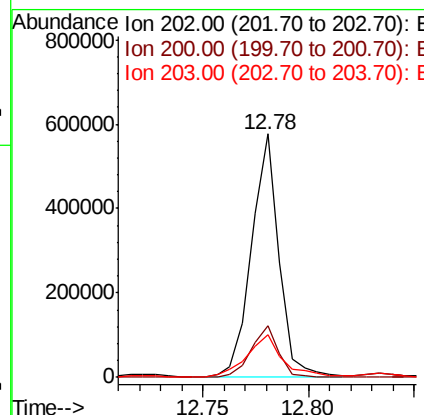
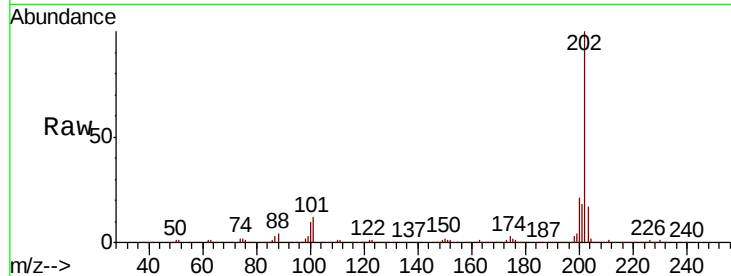
#78  
Pvrene  
Concen: 55.712 ng  
RT: 12.78 min Scan# 1818  
Delta R.T. 0.01 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.3  | 17.2  | 25.8  |
| 203     | 17.4  | 14.0  | 21.0  |

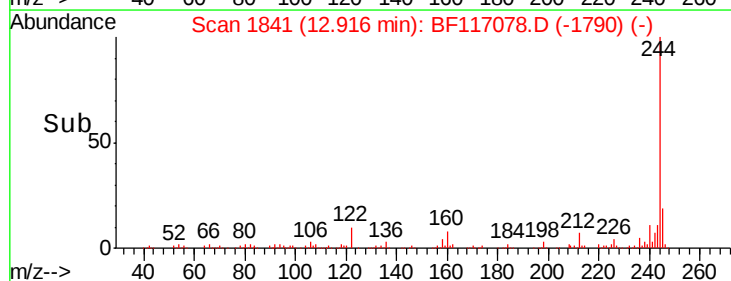
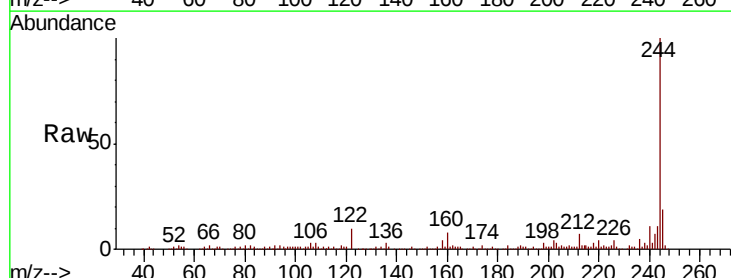
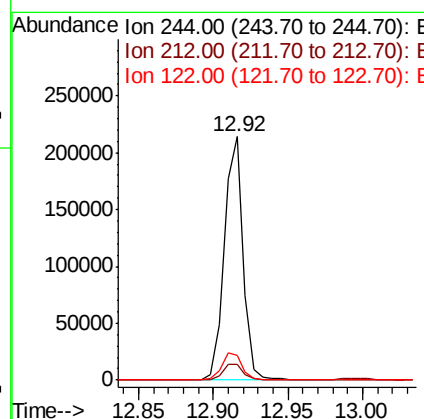
Manual Integrations  
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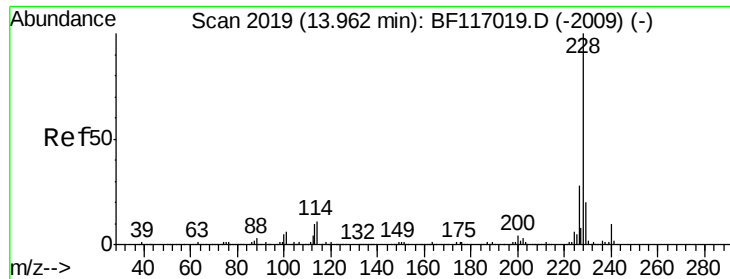
mohammad  
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#79  
Terphenyl-d14  
Concen: 31.948 ng  
RT: 12.92 min Scan# 1841  
Delta R.T. 0.00 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 5.8   | 8.8   |
| 122     | 10.2  | 11.3  | 16.9# |





#81

Benzo(a)anthracene

Concen: 20.247 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF117078.D

Acq: 16 Sep 2019 23:18

Instrument :

BNA\_F

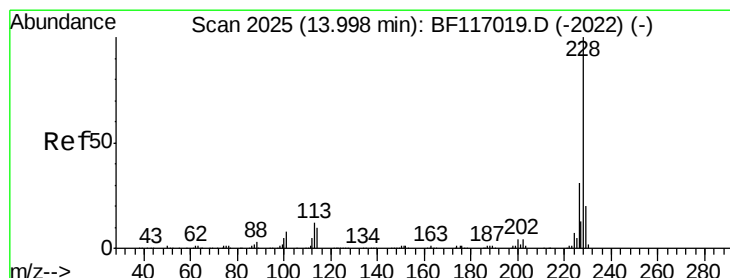
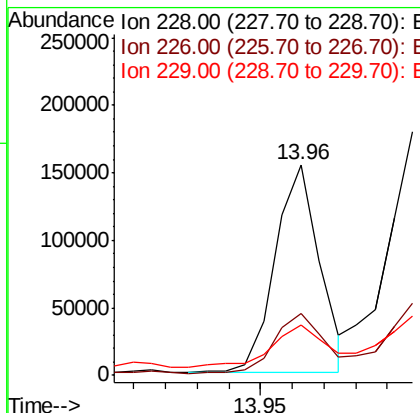
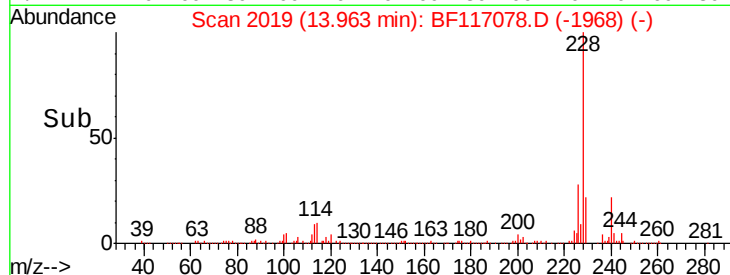
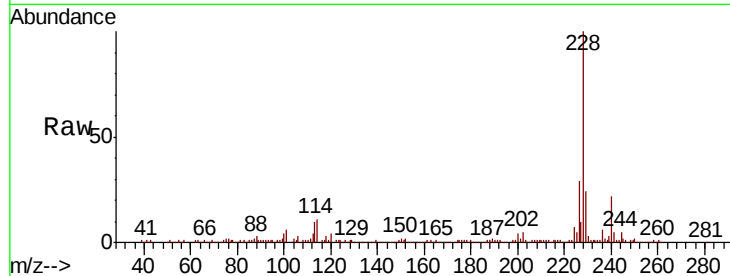
ClientSampleId :

SB-22-COMP

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 228  | Resp: | 150409 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 29.5 | 22.3  | 33.5   |
| 229       | 24.1 | 15.9  | 23.9#  |

Manual Integrations  
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#83

Chrysene

Concen: 24.657 ng

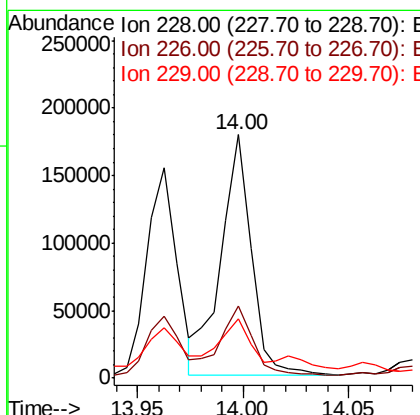
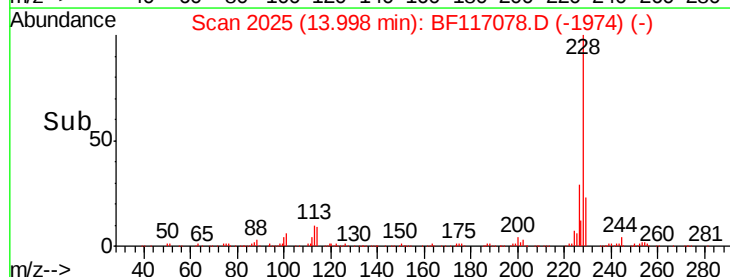
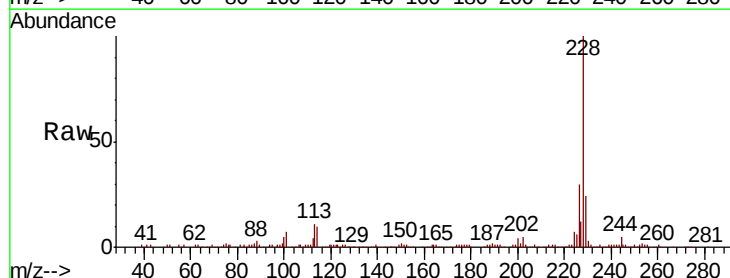
RT: 14.00 min Scan# 2025

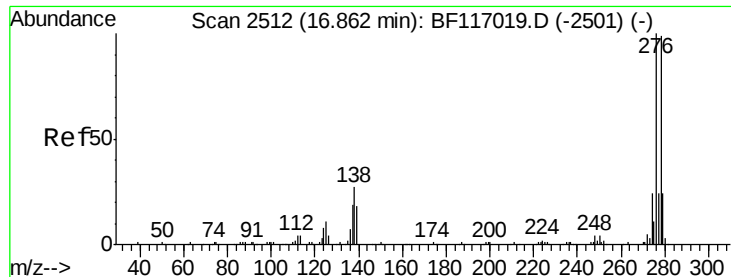
Delta R.T. 0.00 min

Lab File: BF117078.D

Acq: 16 Sep 2019 23:18

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 228  | Resp: | 178647 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 29.7 | 24.8  | 37.2   |
| 229       | 24.4 | 15.8  | 23.8#  |





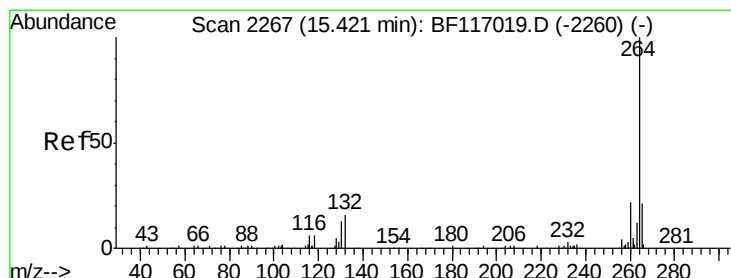
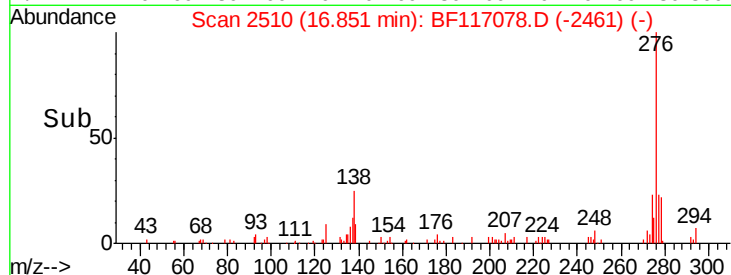
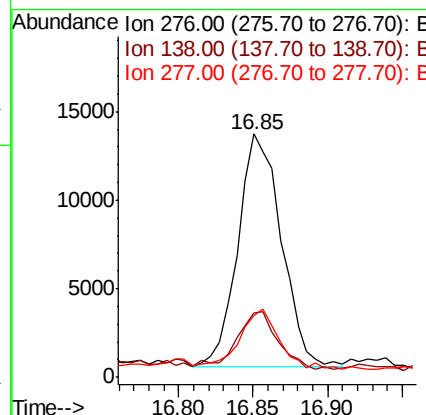
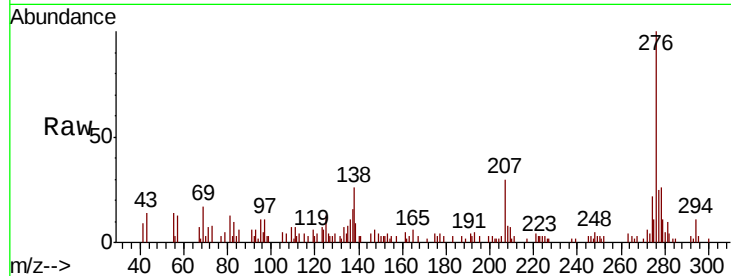
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 5.015 ng  
RT: 16.85 min Scan# 2510  
Delta R.T. -0.01 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 26507 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.2  | 20.7  | 31.1  |
| 277       | 23.8  | 19.8  | 29.8  |

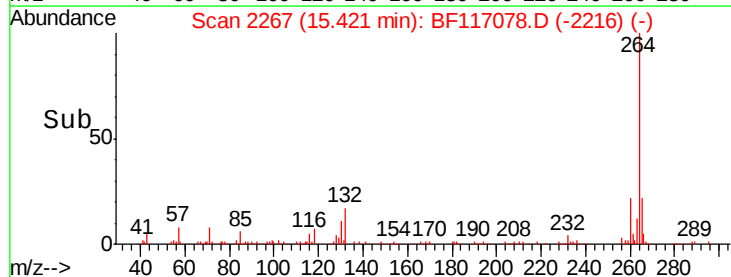
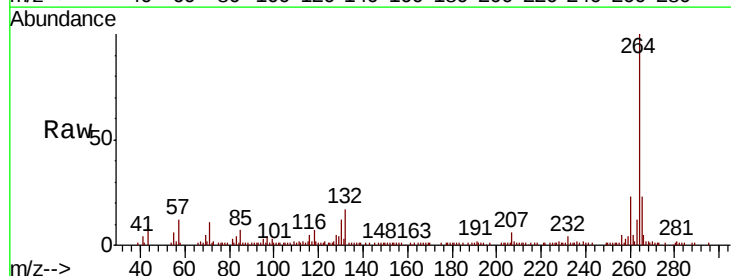
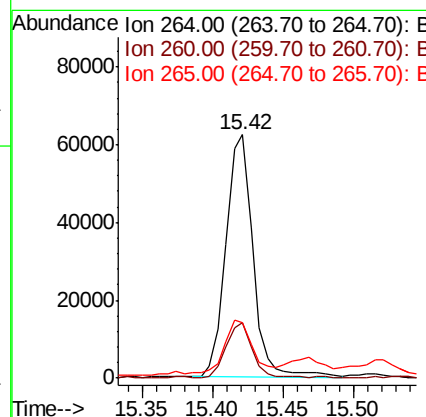
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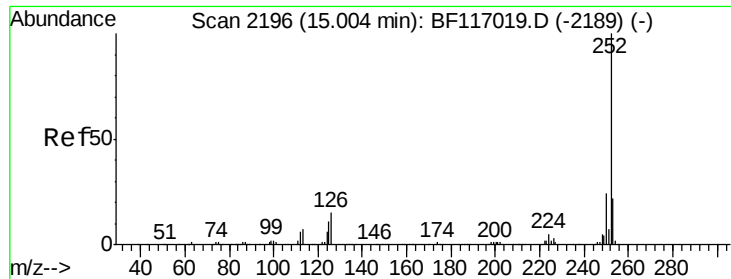
mohammad  
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#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.42 min Scan# 2267  
Delta R.T. 0.00 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 83505 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 22.7  | 17.6  | 26.4  |
| 265       | 23.0  | 16.6  | 24.8  |





#88

Benzo(b)fluoranthene

Concen: 13.807 ng m

RT: 15.00 min Scan# 2196

Delta R.T. 0.00 min

Lab File: BF117078.D

Acq: 16 Sep 2019 23:18

Instrument :

BNA\_F

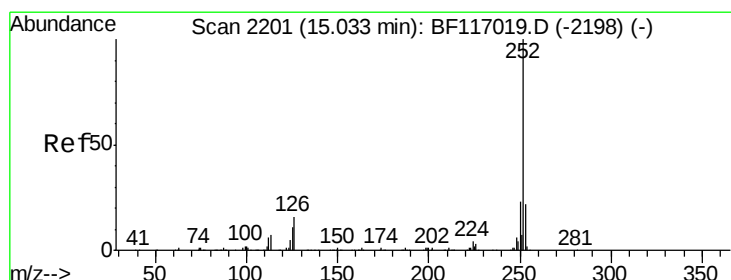
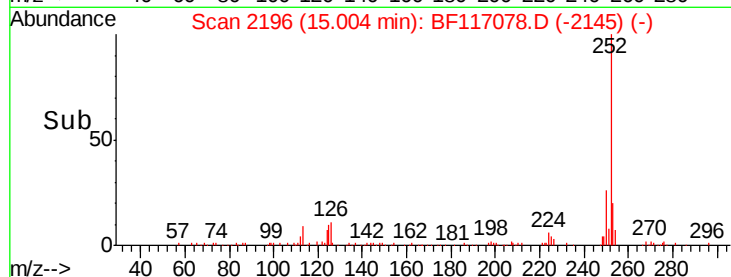
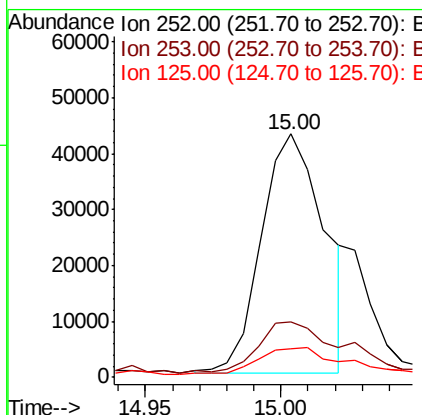
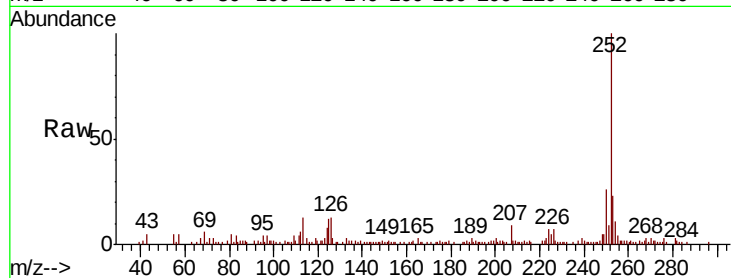
ClientSampleId :

SB-22-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 69838 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.0  | 17.6  | 26.4  |
| 125       | 11.8  | 8.6   | 12.8  |

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#89

Benzo(k)fluoranthene

Concen: 3.430 ng m

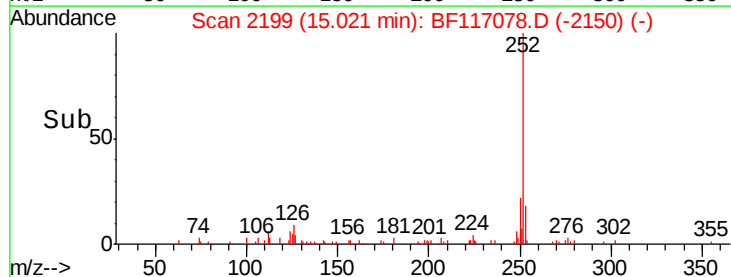
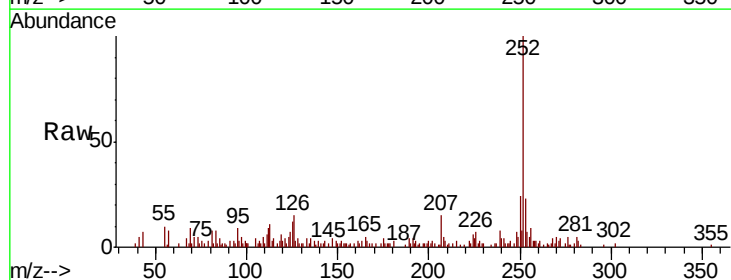
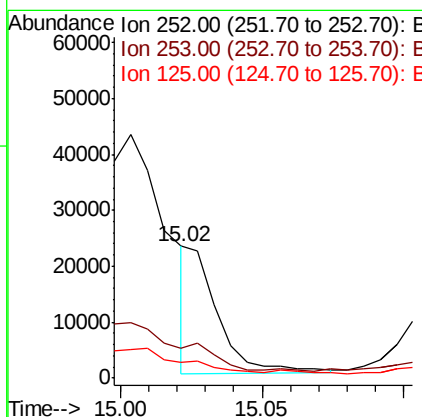
RT: 15.02 min Scan# 2199

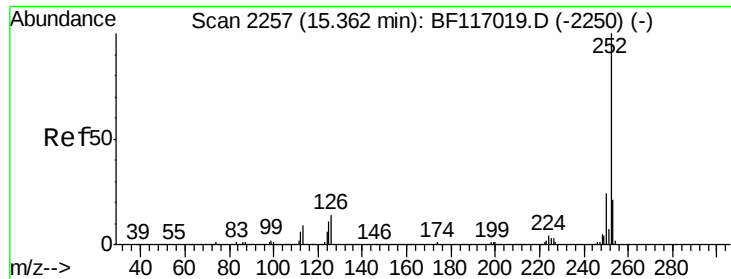
Delta R.T. -0.01 min

Lab File: BF117078.D

Acq: 16 Sep 2019 23:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 16434 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.9  | 17.4  | 26.2  |
| 125       | 11.5  | 8.8   | 13.2  |





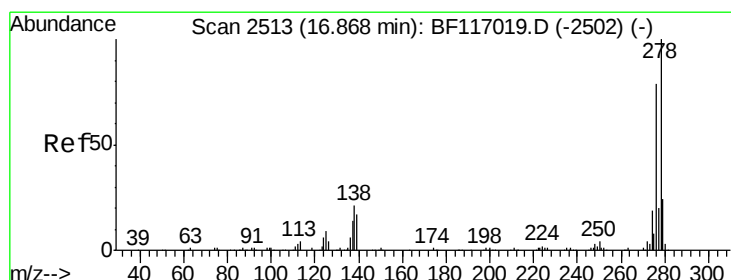
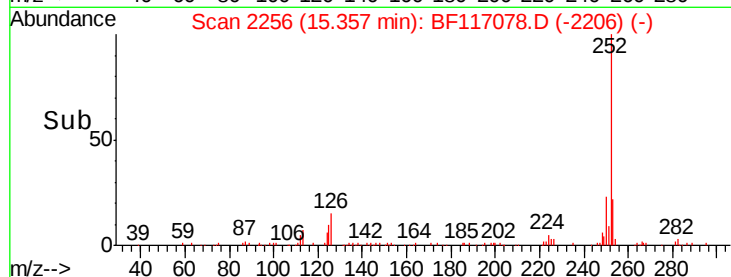
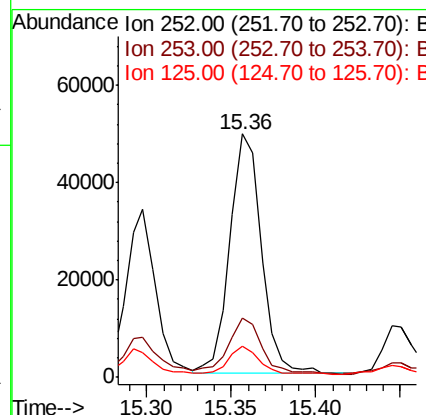
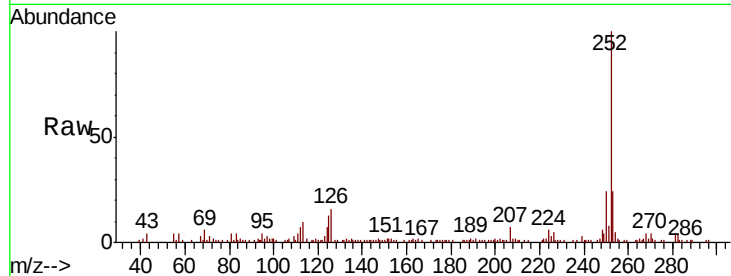
#90  
Benzo(a)pyrene  
Concen: 14.359 ng  
RT: 15.36 min Scan# 2256  
Delta R.T. -0.01 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 16.6  | 25.0  |
| 125     | 12.5  | 8.9   | 13.3  |

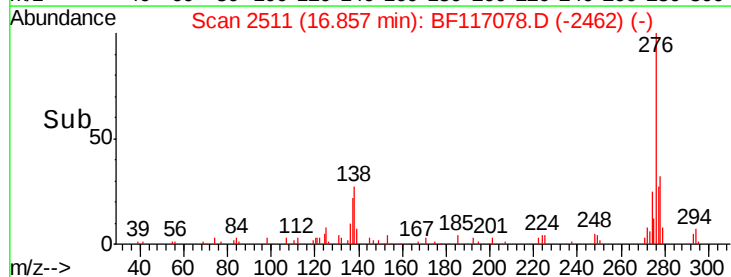
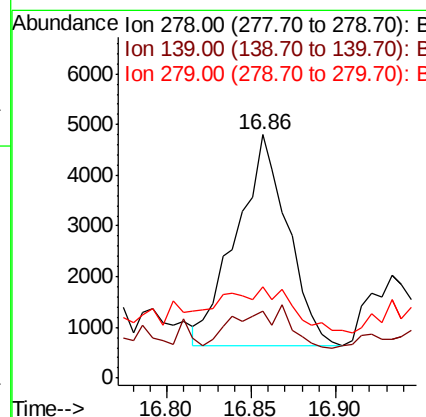
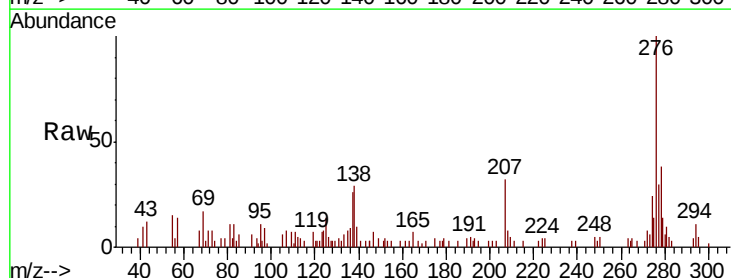
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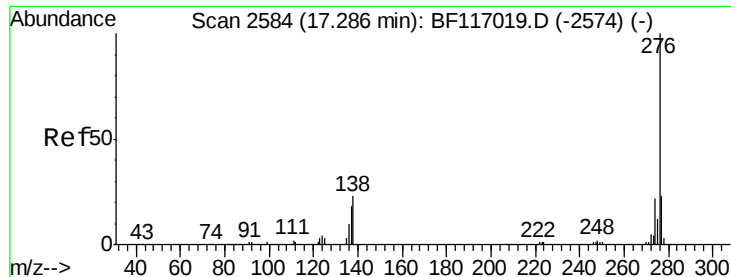
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#91  
Dibenzo(a,h)anthracene  
Concen: 2.508 ng  
RT: 16.86 min Scan# 2511  
Delta R.T. -0.01 min  
Lab File: BF117078.D  
Acq: 16 Sep 2019 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 27.4  | 13.5  | 20.3# |
| 279     | 37.5  | 18.8  | 28.2# |





#92  
 Benzo(a,h,i)perylene  
 Concen: 9.415 ng  
 RT: 17.29 min Scan# 2585  
 Delta R.T. 0.01 min  
 Lab File: BF117078.D  
 Acq: 16 Sep 2019 23:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-22-COMP

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 276     | 100  |       |       |       |
| 277     | 22.8 | 18.6  | 27.8  |       |
| 138     | 22.4 | 18.0  | 27.0  |       |

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