

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041720\  
 Data File : BF120066.D  
 Acq On : 17 Apr 2020 18:26  
 Operator : MA/SJ  
 Sample : L2283-06  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WB-1-1

Manual Integrations  
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 4/21/2020 8:22:42 AM

Quant Time: Apr 18 03:29:57 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 17 10:51:37 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 172264   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.02  | 136  | 573488   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.77  | 164  | 289770   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.26 | 188  | 431707   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.90 | 240  | 287784   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.34 | 264  | 249365   | 20.00 | ng    | 0.01     |

|                             |       |     |         |       |    |      |
|-----------------------------|-------|-----|---------|-------|----|------|
| System Monitoring Compounds |       |     |         |       |    |      |
| 5) 2-Fluorophenol           | 5.34  | 112 | 867107  | 86.99 | ng | 0.01 |
| 7) Phenol-d6                | 6.37  | 99  | 1008381 | 78.51 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.29  | 82  | 715929  | 64.58 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 10.56 | 330 | 202215  | 57.00 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 9.09  | 172 | 1324196 | 64.88 | ng | 0.00 |
| 79) Terphenyl-d14           | 12.85 | 244 | 980452  | 57.33 | ng | 0.00 |

|                            |       |     |         |        |    |      |
|----------------------------|-------|-----|---------|--------|----|------|
| Target Compounds           |       |     |         | Qvalue |    |      |
| 10) Phenol                 | 6.39  | 94  | 472729  | 32.442 | ng | 87   |
| 20) 3+4-Methylphenols      | 7.15  | 107 | 172412  | 14.183 | ng | # 66 |
| 22) Acetophenone           | 7.13  | 105 | 86644   | 6.452  | ng | # 92 |
| 31) Naphthalene            | 8.04  | 128 | 2525250 | 83.693 | ng | 99   |
| 37) 2-Methylnaphthalene    | 8.73  | 142 | 537056  | 26.254 | ng | 99   |
| 38) 1-Methylnaphthalene    | 8.83  | 142 | 388003  | 20.124 | ng | 99   |
| 46) 1,1'-Biphenyl          | 9.19  | 154 | 119910  | 4.903  | ng | 98   |
| 49) Acenaphthylene         | 9.63  | 152 | 92443   | 3.226  | ng | # 89 |
| 50) Dimethylphthalate      | 9.49  | 163 | 186717  | 8.331  | ng | 99   |
| 52) Acenaphthene           | 9.80  | 154 | 149023  | 7.796  | ng | 99   |
| 55) Dibenzofuran           | 9.97  | 168 | 138934  | 5.297  | ng | # 89 |
| 58) Fluorene               | 10.32 | 166 | 195302  | 9.310  | ng | # 98 |
| 71) Phenanthrene           | 11.29 | 178 | 1462667 | 63.661 | ng | 99   |
| 72) Anthracene             | 11.33 | 178 | 413548  | 17.619 | ng | 99   |
| 73) Carbazole              | 11.49 | 167 | 103654  | 4.670  | ng | 97   |
| 75) Fluoranthene           | 12.49 | 202 | 978003  | 39.450 | ng | 98   |
| 78) Pyrene                 | 12.72 | 202 | 1004082 | 41.387 | ng | 99   |
| 81) Benzo(a)anthracene     | 13.90 | 228 | 603209  | 31.861 | ng | 96   |
| 83) Chrysene               | 13.93 | 228 | 609401  | 31.679 | ng | 97   |
| 86) Indeno(1,2,3-cd)pyrene | 16.73 | 276 | 221674  | 13.073 | ng | 97   |
| 88) Benzo(b)fluoranthene   | 14.94 | 252 | 608103m | 33.899 | ng |      |
| 89) Benzo(k)fluoranthene   | 14.96 | 252 | 134935m | 8.718  | ng |      |
| 90) Benzo(a)pyrene         | 15.29 | 252 | 433819  | 28.762 | ng | 97   |
| 91) Dibenz(a,h)anthracene  | 16.73 | 278 | 63465   | 4.750  | ng | # 83 |
| 92) Benzo(g,h,i)perylene   | 17.14 | 276 | 217017  | 16.456 | ng | 96   |

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

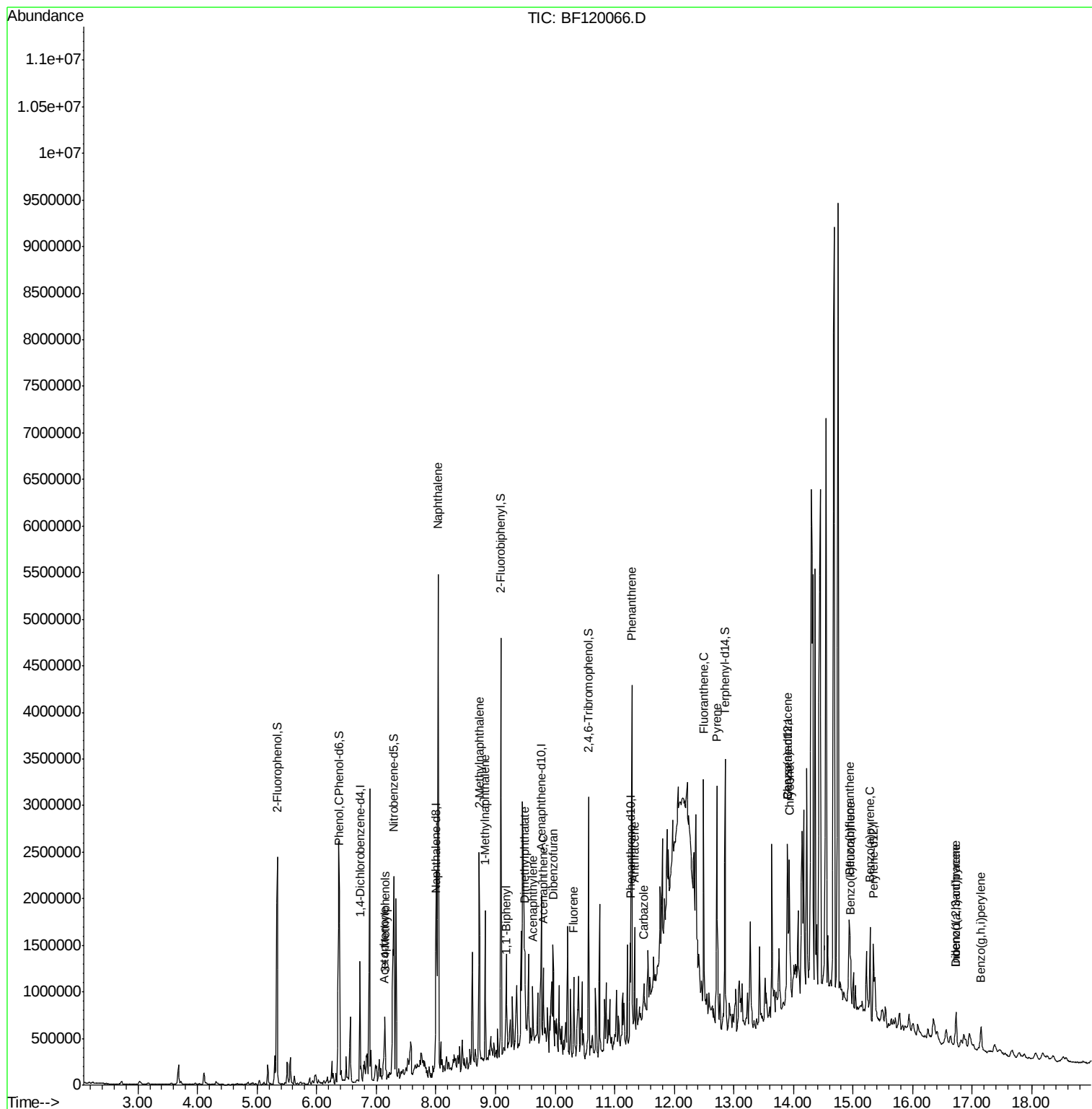
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041720\  
Data File : BF120066.D  
Acq On : 17 Apr 2020 18:26  
Operator : MA/SJ  
Sample : L2283-06  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

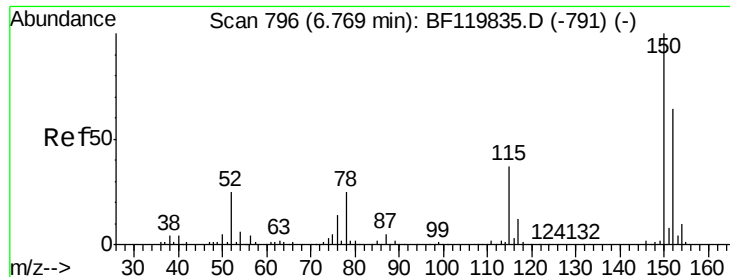
Instrument :  
BNA\_F  
ClientSampled :  
WB-1-1

Manual Integrations  
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Quant Time: Apr 18 03:29:57 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 17 10:51:37 2020  
Response via : Initial Calibration





#1

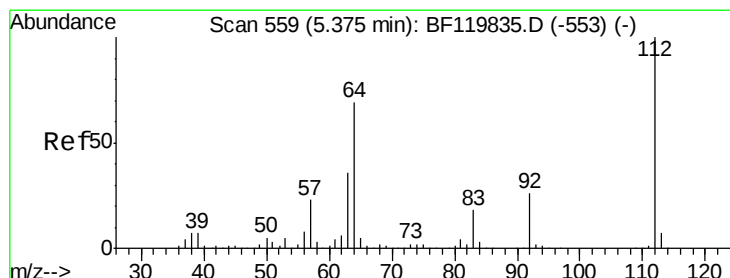
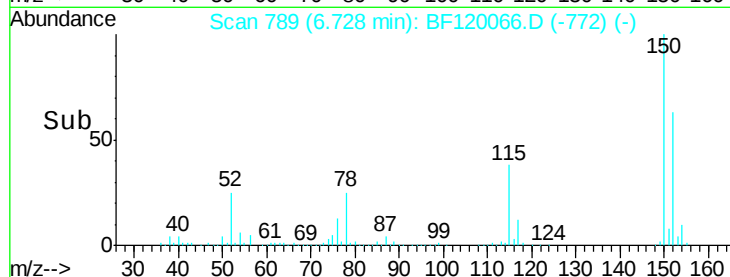
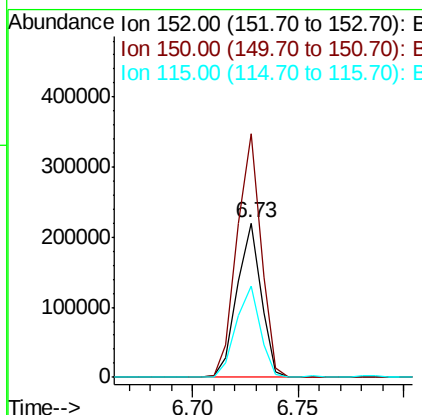
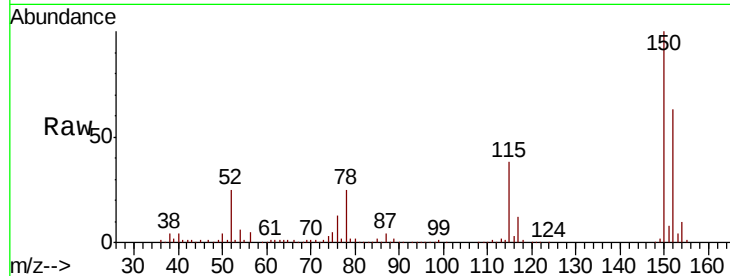
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. -0.00 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
WB-1-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.7 | 124.8 | 187.2 |
| 115     | 59.4  | 46.5  | 69.7  |

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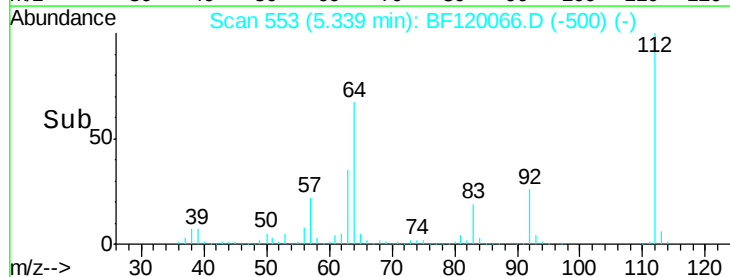
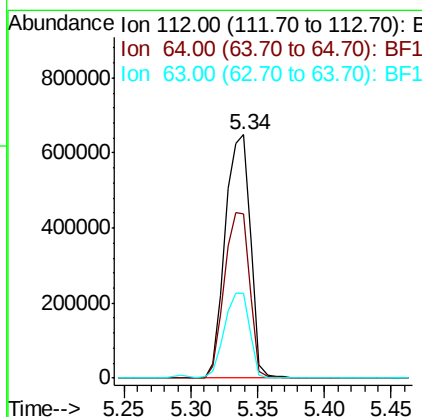
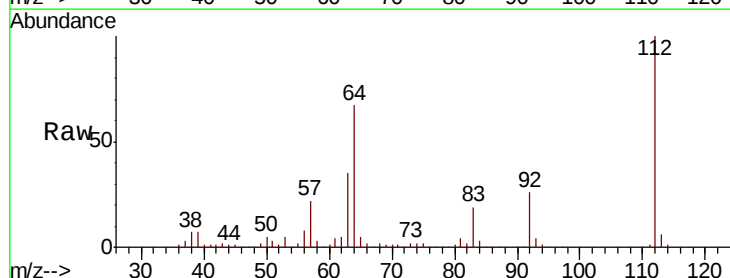
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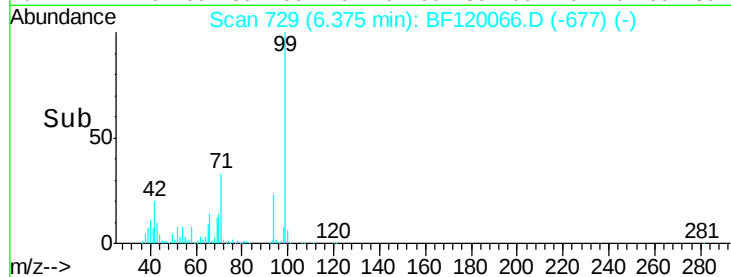
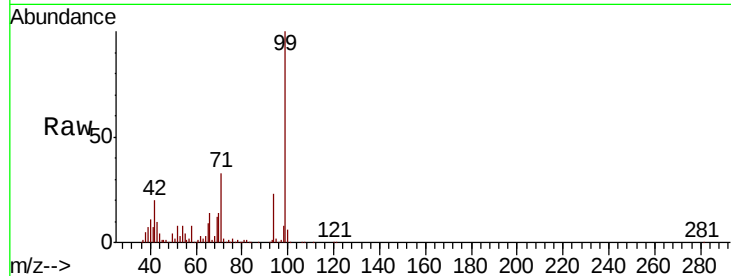


#5

2-Fluorophenol  
Concen: 86.990 ng  
RT: 5.34 min Scan# 553  
Delta R.T. 0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.4  | 55.5  | 83.3  |
| 63      | 35.1  | 29.1  | 43.7  |





#7

Phenol-d6

Concen: 78.509 ng

RT: 6.37 min Scan# 729

Delta R.T. 0.01 min

Lab File: BF120066.D

Acq: 17 Apr 2020 18:26

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 99    | Resp: | 1008381 |
| Ion      | Ratio | Lower | Upper   |
| 99       | 100   |       |         |
| 42       | 19.8  | 16.9  | 25.3    |
| 71       | 32.8  | 26.3  | 39.5    |

Instrument :

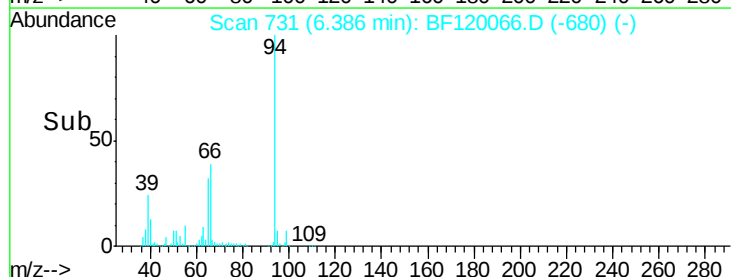
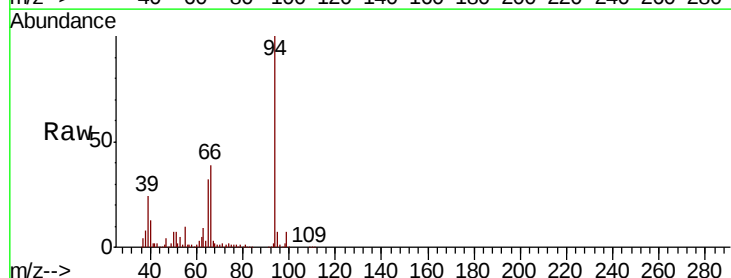
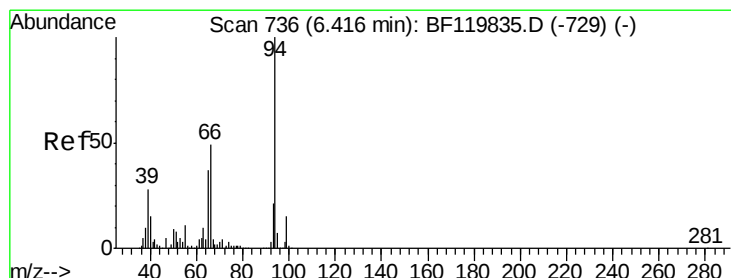
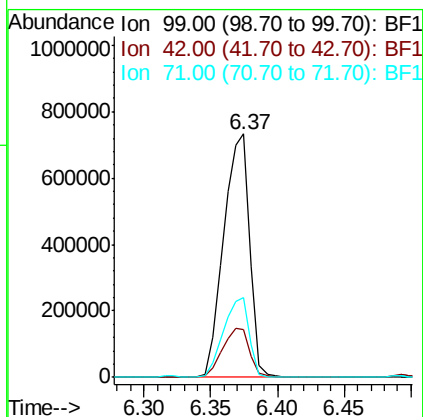
BNA\_F

ClientSampled :

WB-1-1

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#10

Phenol

Concen: 32.442 ng

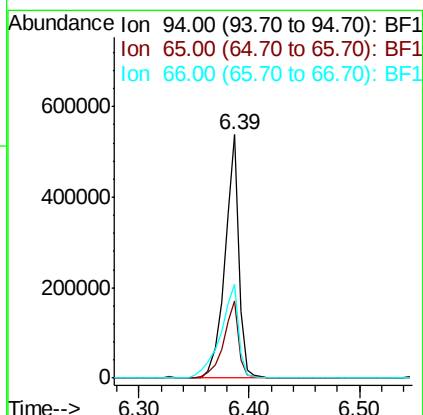
RT: 6.39 min Scan# 731

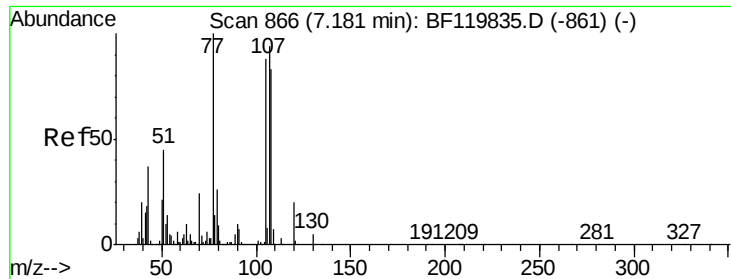
Delta R.T. -0.00 min

Lab File: BF120066.D

Acq: 17 Apr 2020 18:26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 94    | Resp: | 472729 |
| Ion      | Ratio | Lower | Upper  |
| 94       | 100   |       |        |
| 65       | 31.5  | 16.6  | 56.6   |
| 66       | 38.5  | 29.3  | 69.3   |





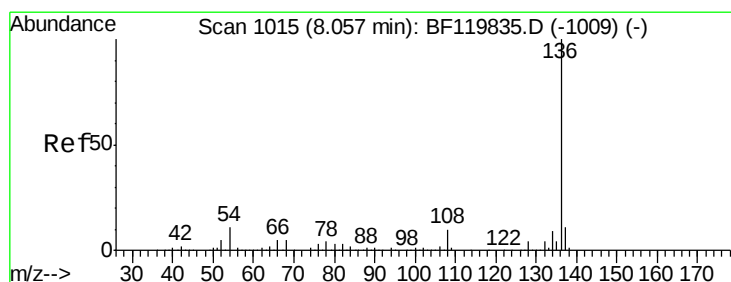
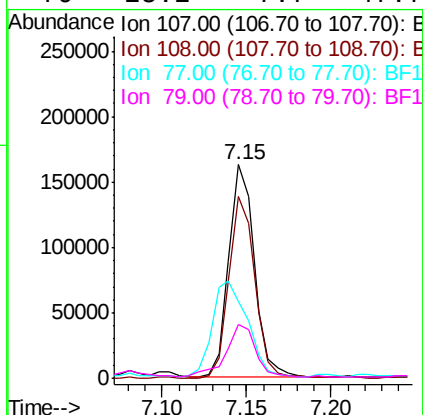
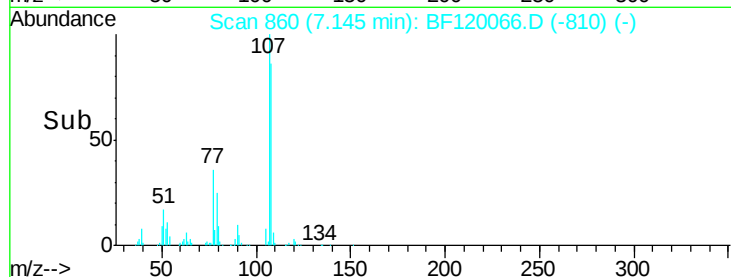
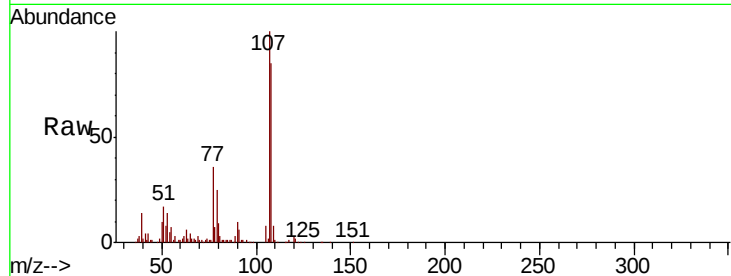
#20  
3+4-Methylphenols  
Concen: 14.183 ng  
RT: 7.15 min Scan# 860  
Delta R.T. -0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampled :  
WB-1-1

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 107     | 100   |       |        |
| 108     | 85.3  | 68.2  | 108.2  |
| 77      | 36.2  | 86.6  | 126.6# |
| 79      | 25.2  | 7.7   | 47.7   |

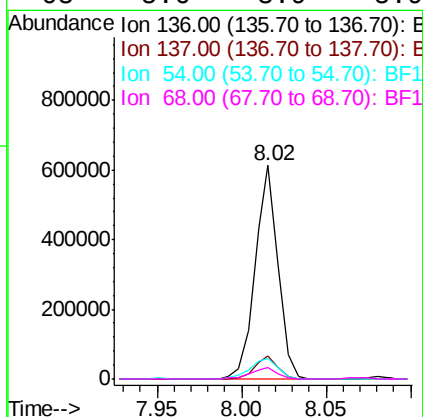
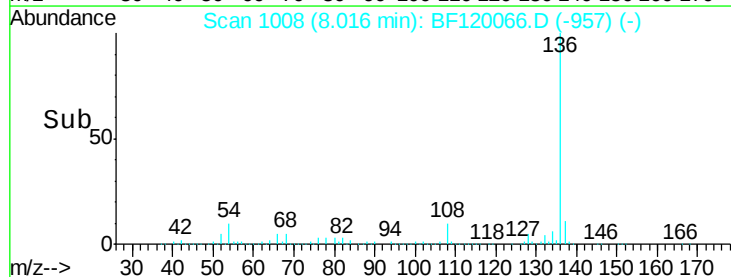
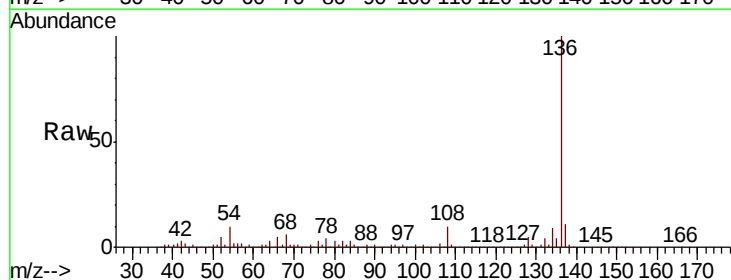
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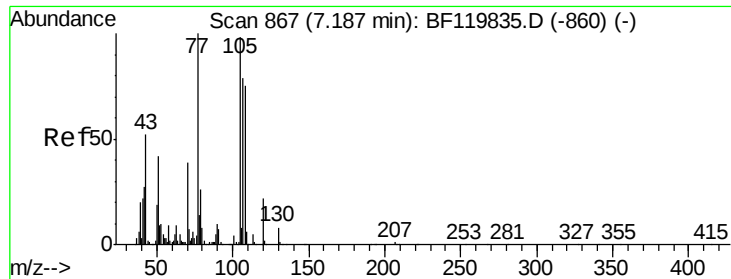
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#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.02 min Scan# 1008  
Delta R.T. -0.00 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.7  | 8.7   | 13.1  |
| 54      | 9.9   | 8.5   | 12.7  |
| 68      | 5.6   | 3.9   | 5.9   |





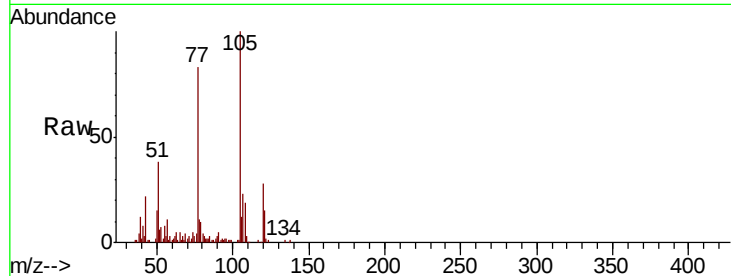
#22  
Acetophenone  
Concen: 6.452 ng  
RT: 7.13 min Scan# 858  
Delta R.T. -0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
WB-1-1

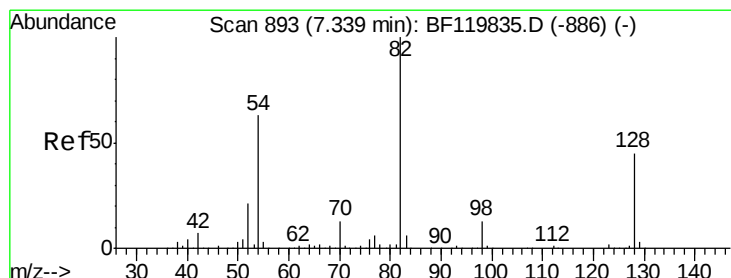
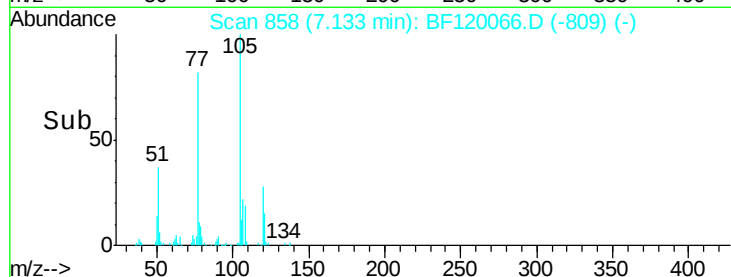
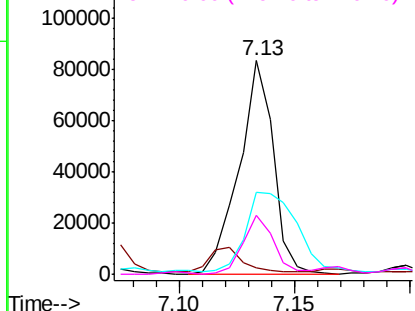
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 86644 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 71        | 2.9   | 5.6   | 8.4#  |
| 51        | 38.5  | 33.9  | 50.9  |
| 120       | 27.8  | 17.8  | 26.8# |

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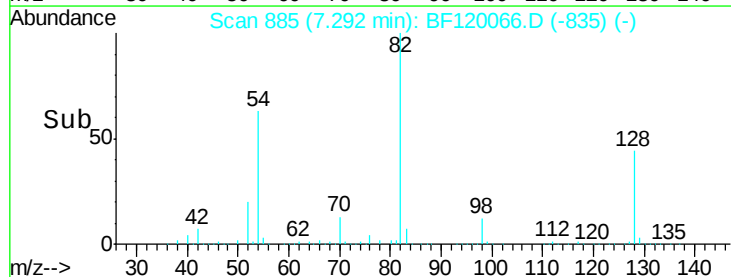
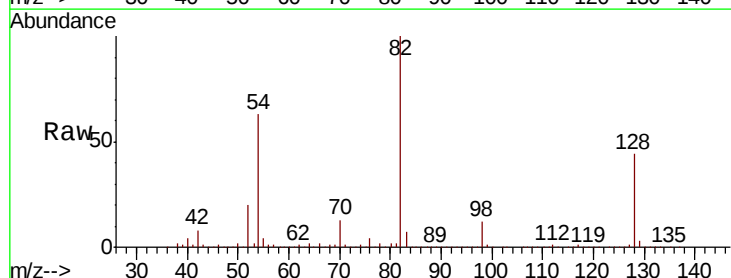
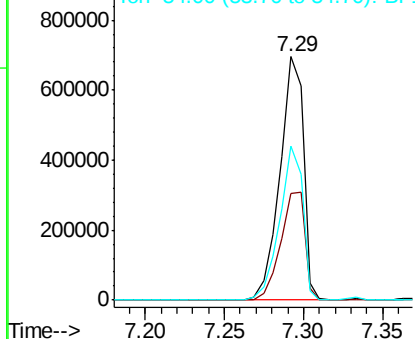
Abundance Ion 105.00 (104.70 to 105.70): E  
Ion 71.00 (70.70 to 71.70): BF1  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 120.00 (119.70 to 120.70): E

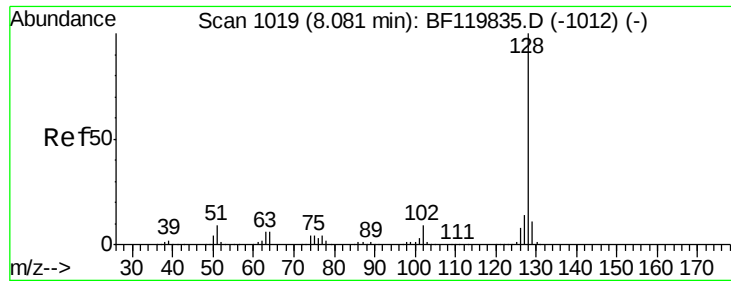


#23  
Nitrobenzene-d5  
Concen: 64.583 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 715929 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 43.7  | 36.2  | 54.4   |
| 54        | 63.2  | 50.4  | 75.6   |

Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





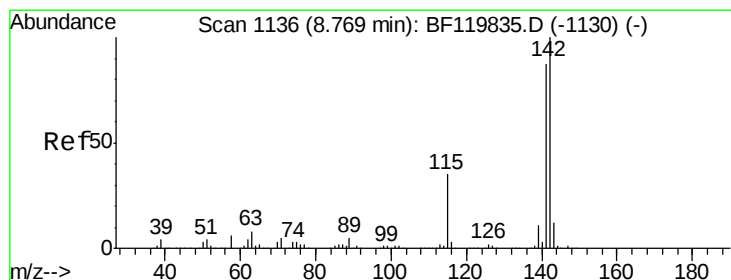
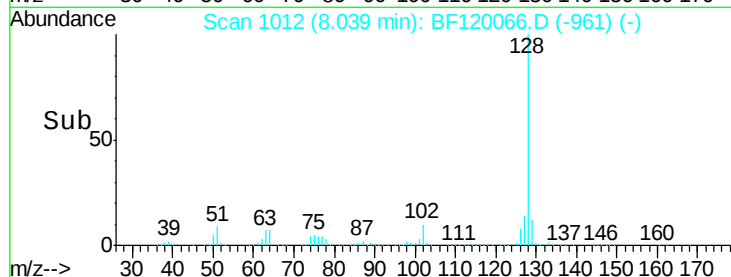
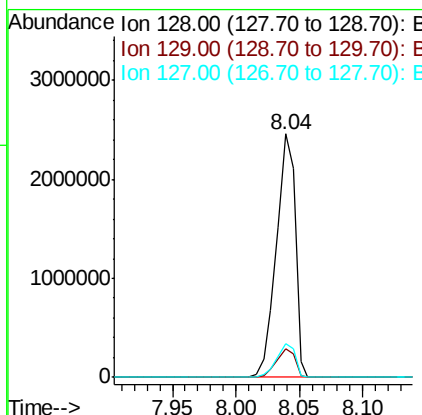
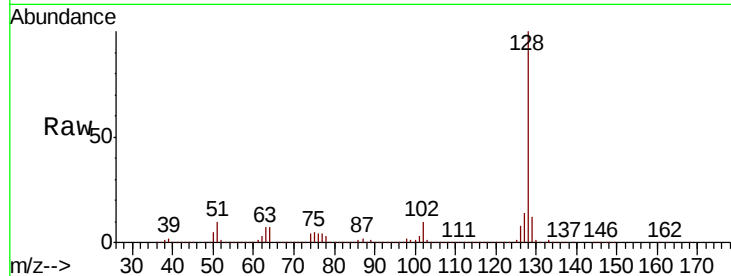
#31  
Naphthalene  
Concen: 83.693 ng  
RT: 8.04 min Scan# 1012  
Delta R.T. -0.00 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
WB-1-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.8  | 9.0   | 13.6  |
| 127     | 13.8  | 11.0  | 16.4  |

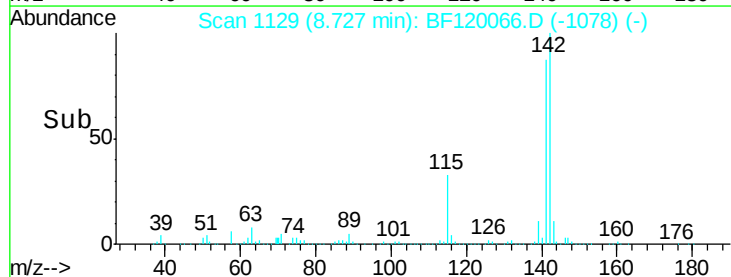
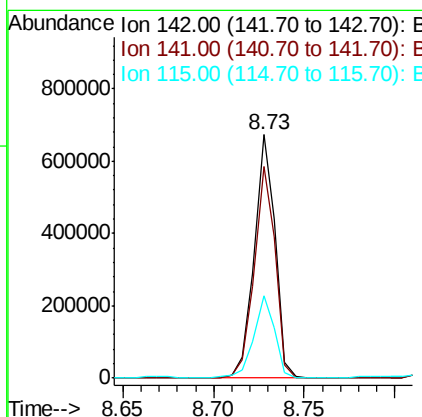
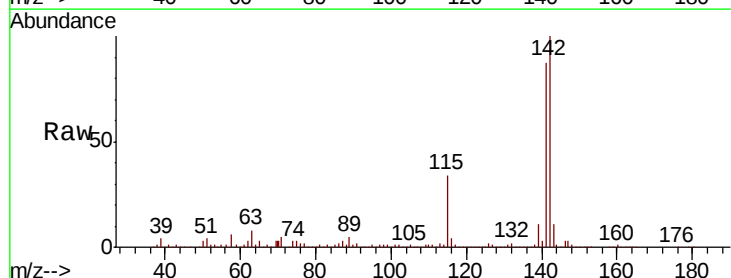
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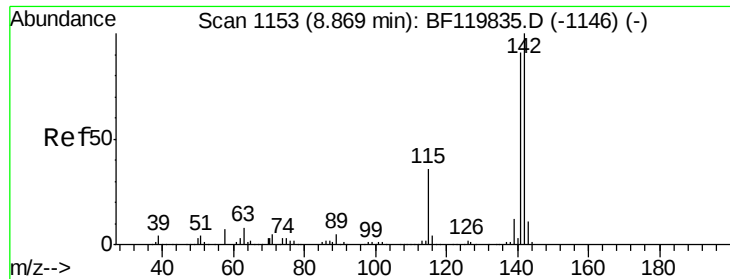
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#37  
2-Methylnaphthalene  
Concen: 26.254 ng  
RT: 8.73 min Scan# 1129  
Delta R.T. -0.00 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.1  | 69.9  | 104.9 |
| 115     | 33.6  | 28.0  | 42.0  |





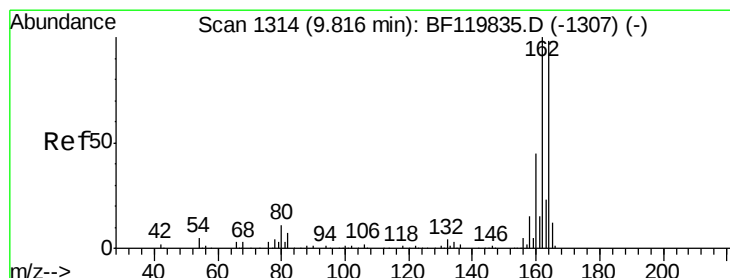
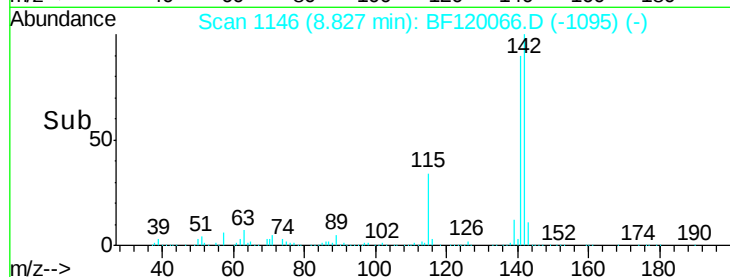
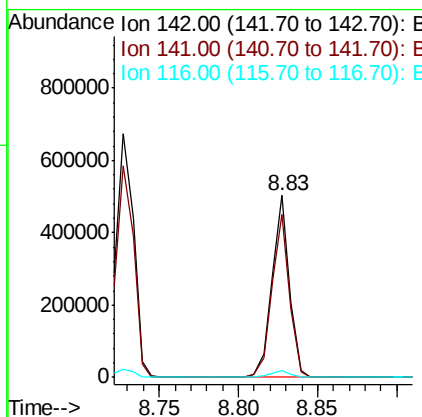
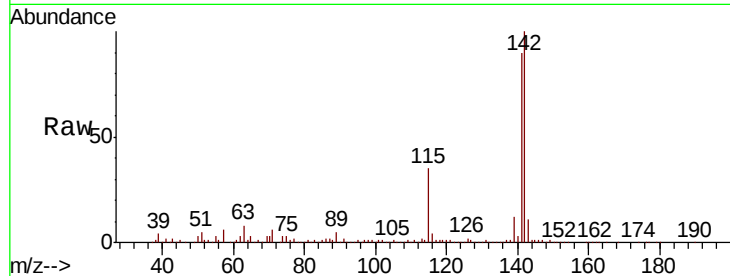
#38  
1-Methylnaphthalene  
Concen: 20.124 ng  
RT: 8.83 min Scan# 1146  
Delta R.T. -0.00 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
WB-1-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.7  | 72.9  | 109.3 |
| 116     | 3.7   | 3.0   | 4.6   |

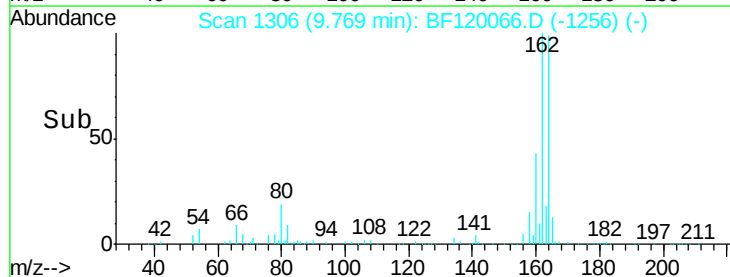
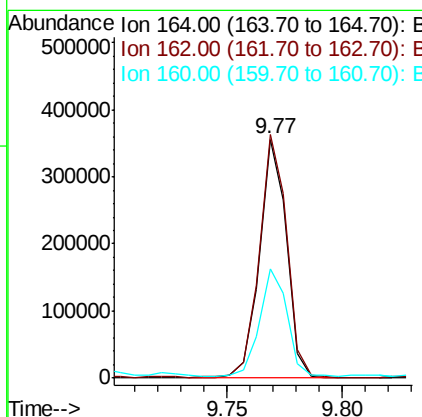
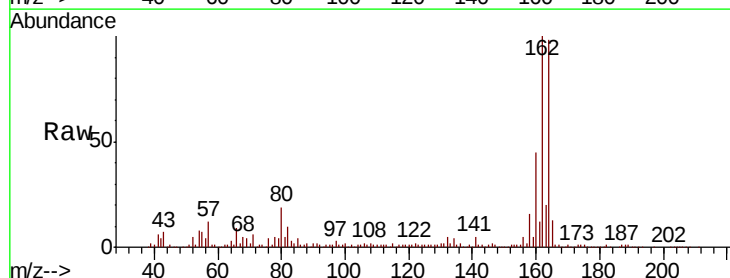
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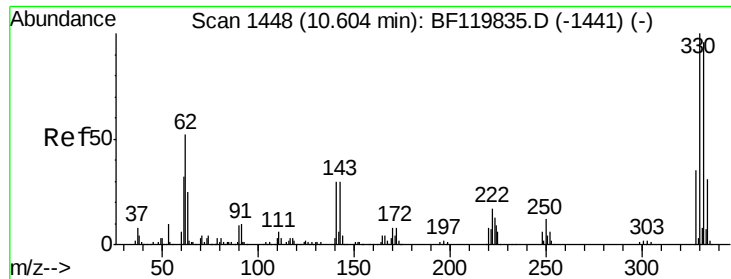
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.77 min Scan# 1306  
Delta R.T. -0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.0 | 81.9  | 122.9 |
| 160     | 45.7  | 36.6  | 54.8  |





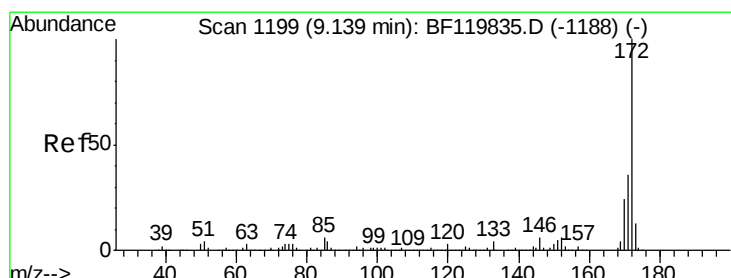
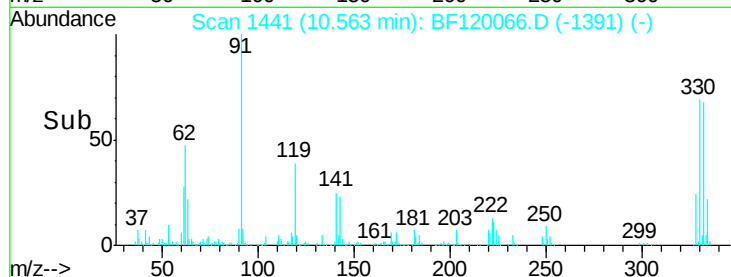
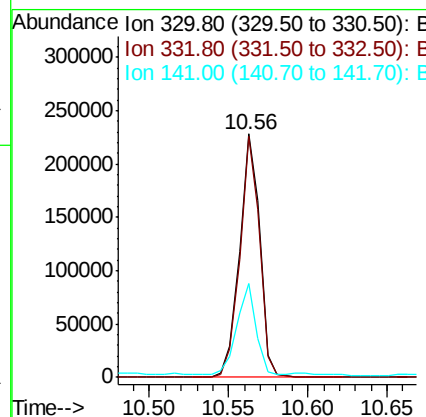
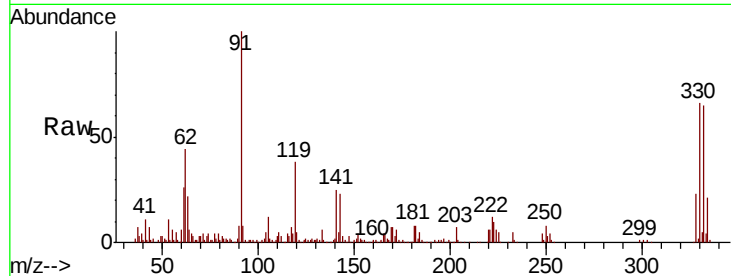
#42  
 2,4,6-Tribromophenol  
 Concen: 56.998 ng  
 RT: 10.56 min Scan# 1441  
 Delta R.T. -0.01 min  
 Lab File: BF120066.D  
 Acq: 17 Apr 2020 18:26

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WB-1-1

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 202215 |       |       |
| 332     | 96.0  | 76.8   | 115.2 |       |
| 141     | 35.4  | 25.1   | 37.7  |       |

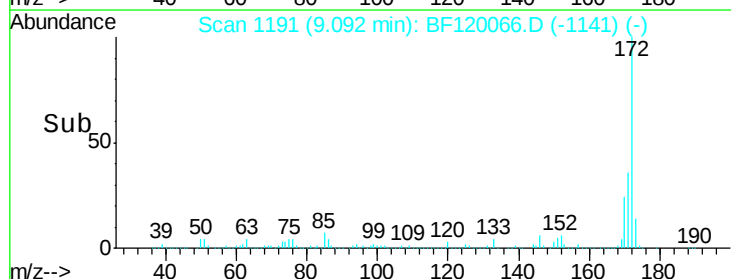
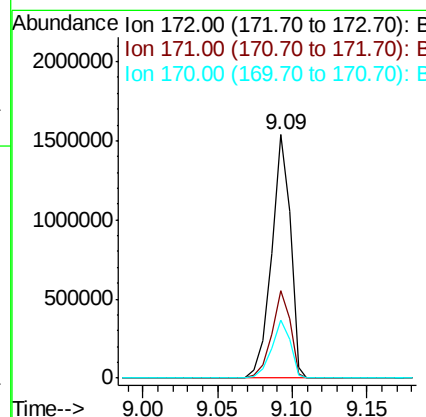
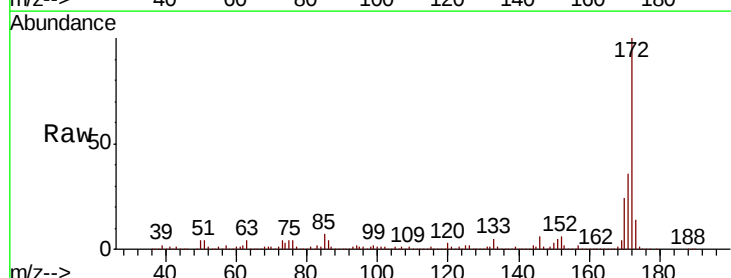
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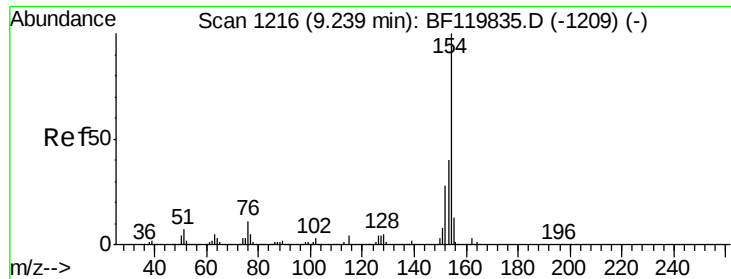
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#45  
 2-Fluorobiphenyl  
 Concen: 64.881 ng  
 RT: 9.09 min Scan# 1191  
 Delta R.T. -0.01 min  
 Lab File: BF120066.D  
 Acq: 17 Apr 2020 18:26

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1324196 |       |       |
| 171     | 36.1  | 28.9    | 43.3  |       |
| 170     | 24.1  | 19.4    | 29.2  |       |





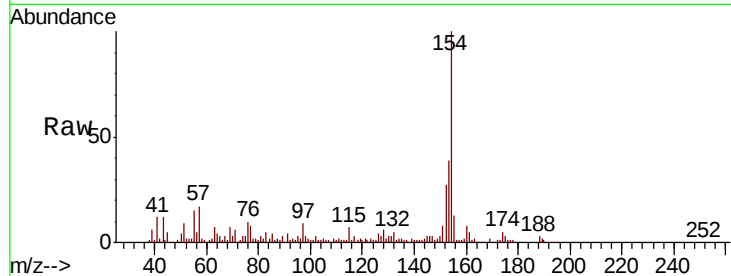
#46  
1,1'-Biphenyl  
Concen: 4.903 ng  
RT: 9.19 min Scan# 1208  
Delta R.T. -0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
WB-1-1

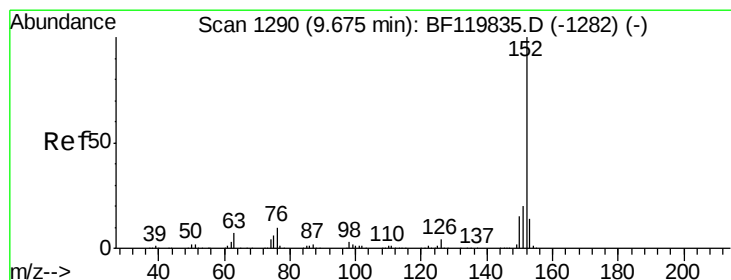
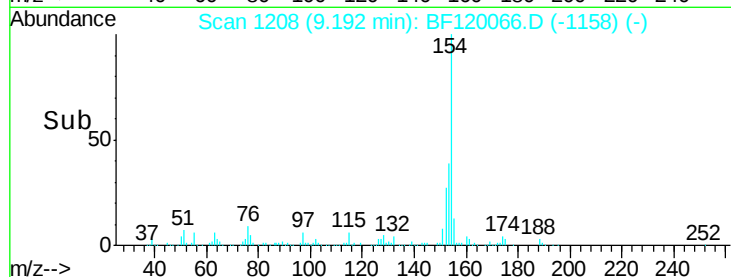
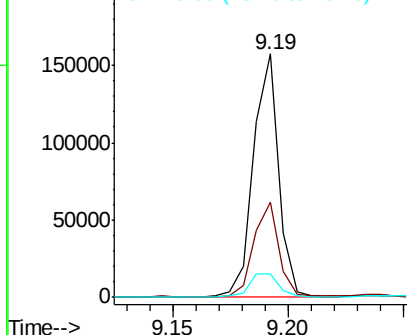
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 119910 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 39.1  | 20.5  | 60.5   |
| 76        | 9.6   | 0.0   | 30.6   |

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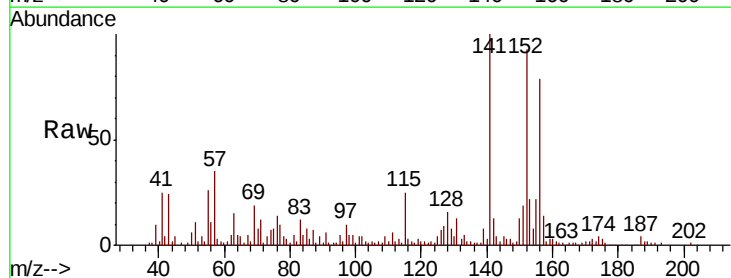


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF1

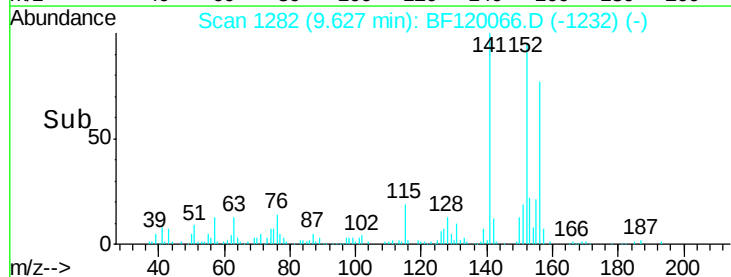
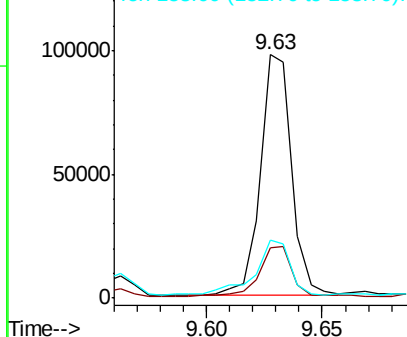


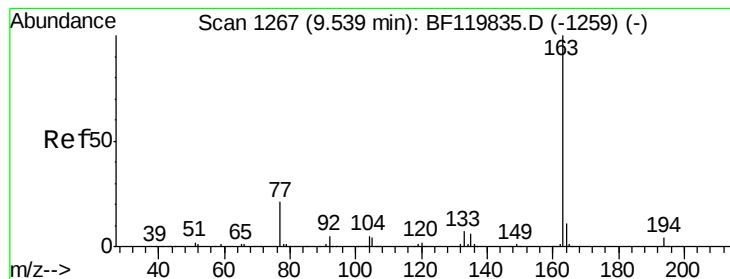
#49  
Acenaphthylene  
Concen: 3.226 ng  
RT: 9.63 min Scan# 1282  
Delta R.T. -0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 92443 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.9  | 16.2  | 24.4  |
| 153       | 24.0  | 10.9  | 16.3# |



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





#50

Dimethylphthalate

Concen: 8.331 ng

RT: 9.49 min Scan# 1259

Delta R.T. -0.01 min

Lab File: BF120066.D

Acq: 17 Apr 2020 18:26

Instrument :

BNA\_F

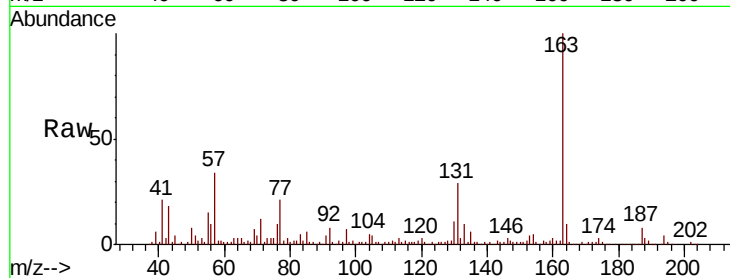
ClientSampleId :

WB-1-1

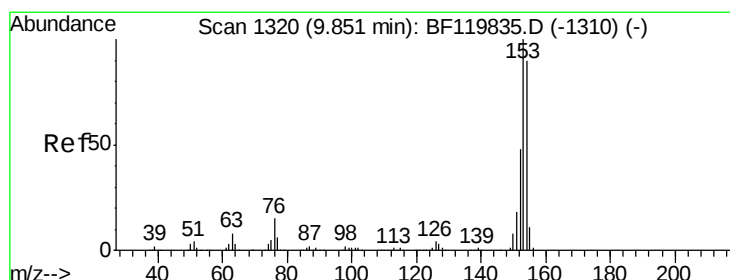
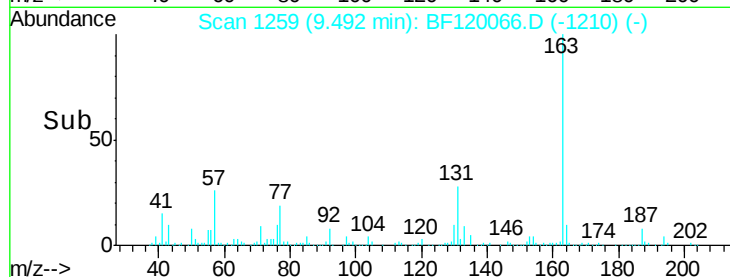
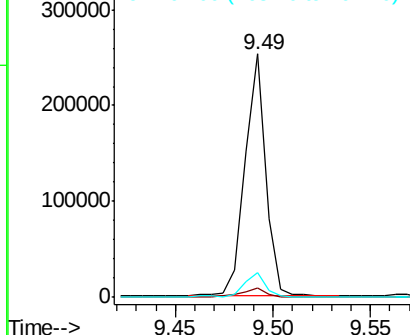
|             |       |          |
|-------------|-------|----------|
| Tot Ion:163 | Resp: | 186717   |
| Ion Ratio   | Lower | Upper    |
| 163         | 100   |          |
| 194         | 3.8   | 3.0 4.4  |
| 164         | 10.0  | 8.4 12.6 |

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Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



#52

Acenaphthene

Concen: 7.796 ng

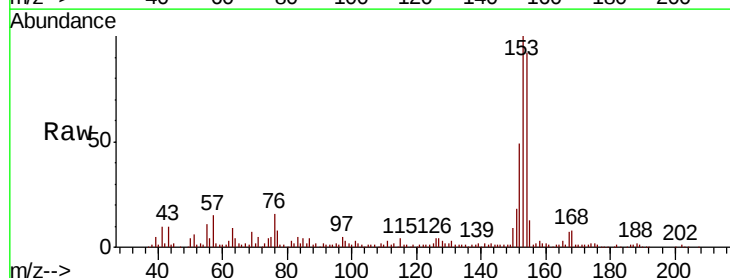
RT: 9.80 min Scan# 1312

Delta R.T. -0.01 min

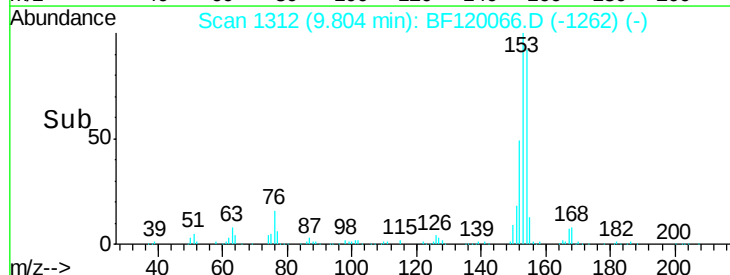
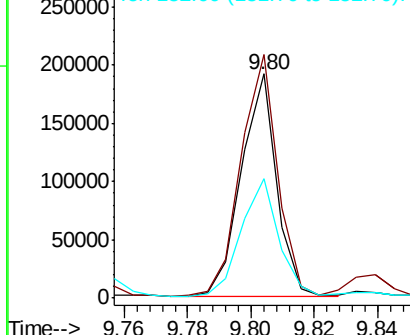
Lab File: BF120066.D

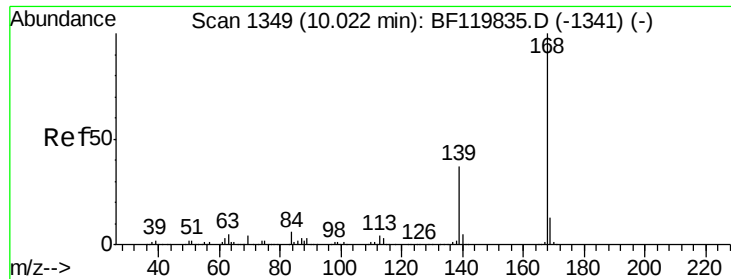
Acq: 17 Apr 2020 18:26

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:154 | Resp: | 149023     |
| Ion Ratio   | Lower | Upper      |
| 154         | 100   |            |
| 153         | 108.8 | 88.8 133.2 |
| 152         | 53.2  | 42.4 63.6  |



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





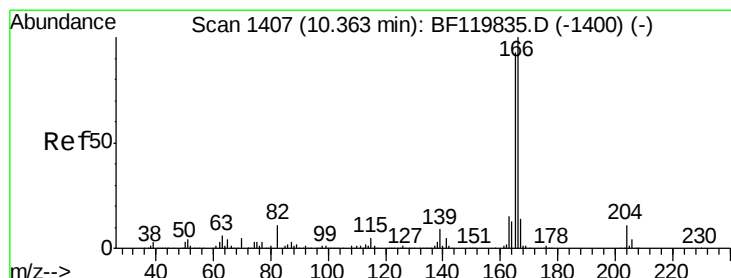
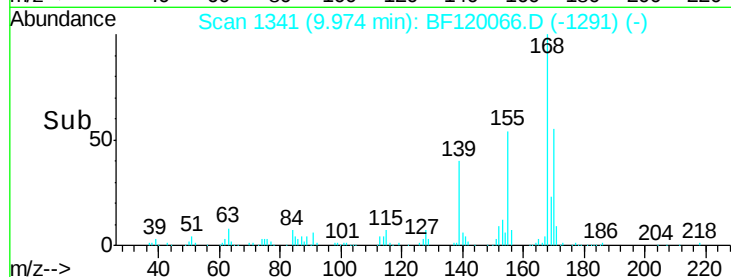
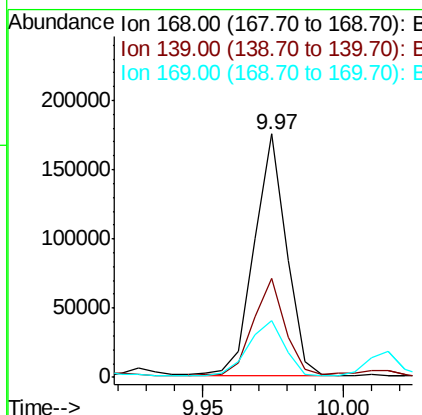
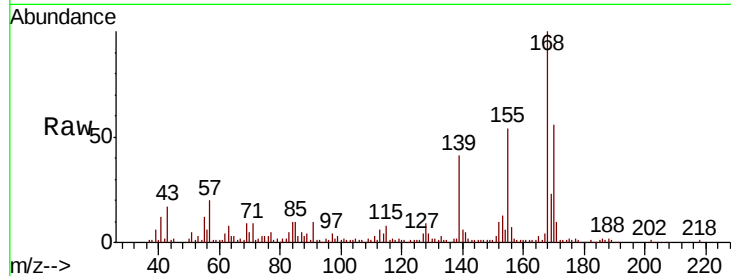
#55  
Dibenzofuran  
Concen: 5.297 ng  
RT: 9.97 min Scan# 1341  
Delta R.T. -0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampled :  
WB-1-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 40.6  | 29.8  | 44.6  |
| 169     | 23.2  | 10.6  | 15.8  |

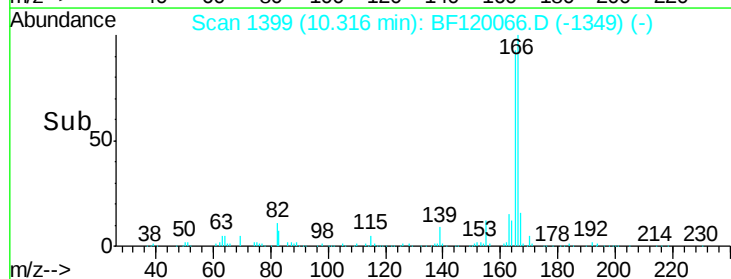
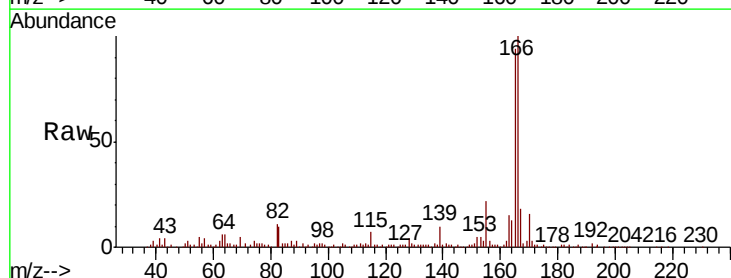
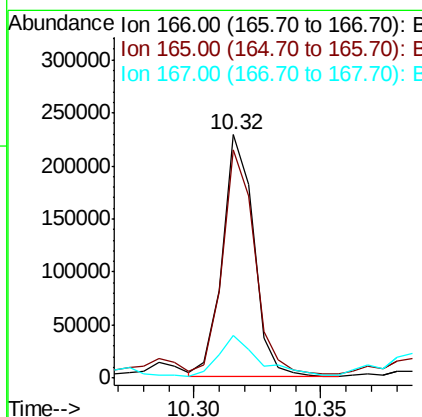
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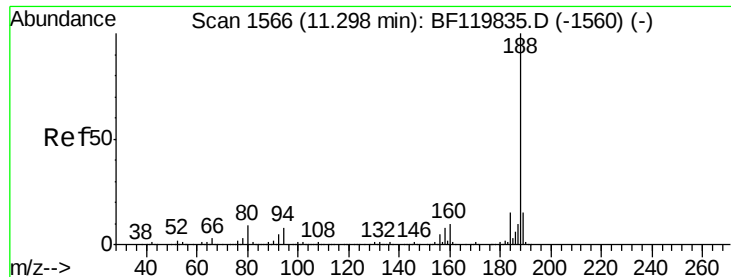
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#58  
Fluorene  
Concen: 9.310 ng  
RT: 10.32 min Scan# 1399  
Delta R.T. -0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 94.0  | 74.2  | 111.2 |
| 167     | 17.5  | 10.8  | 16.2  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.26 min Scan# 1560

Delta R.T. 0.01 min

Lab File: BF120066.D

Acq: 17 Apr 2020 18:26

Instrument :

BNA\_F

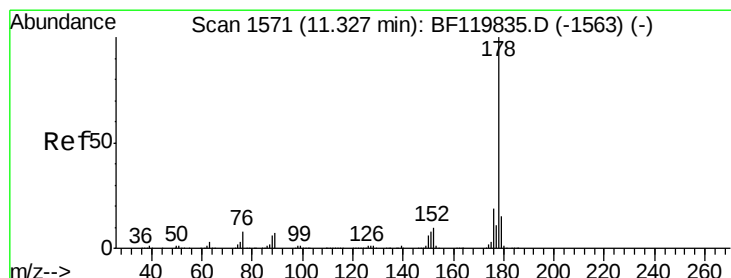
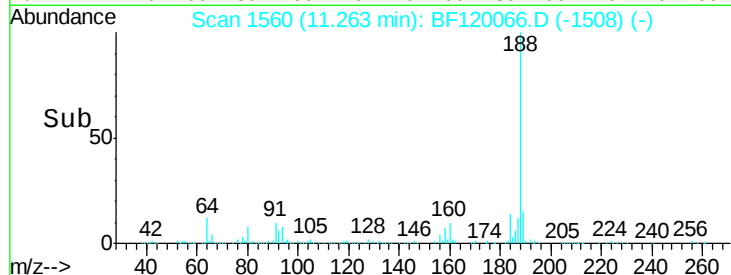
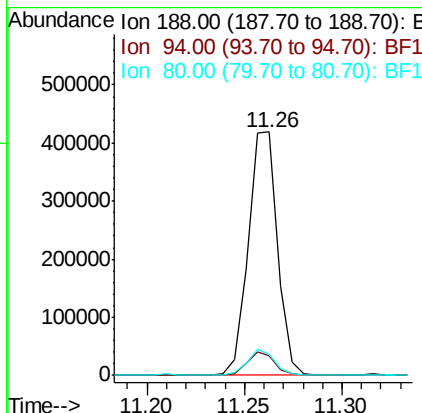
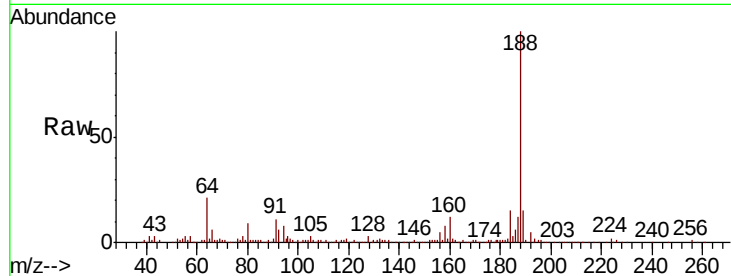
ClientSampled :

WB-1-1

|             |       |          |
|-------------|-------|----------|
| Tot Ion:188 | Resp: | 431707   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 7.9   | 6.7 10.1 |
| 80          | 8.6   | 7.4 11.2 |

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#71

Phenanthrene

Concen: 63.661 ng

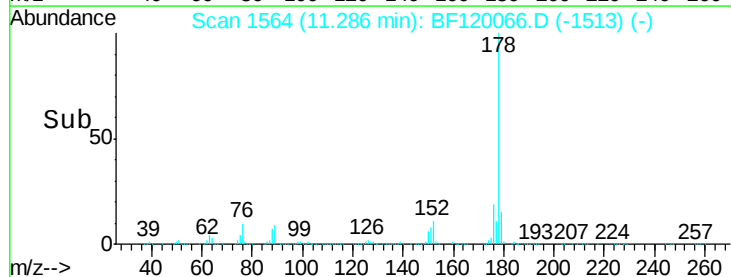
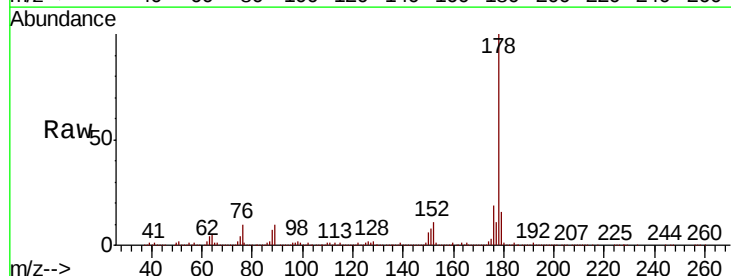
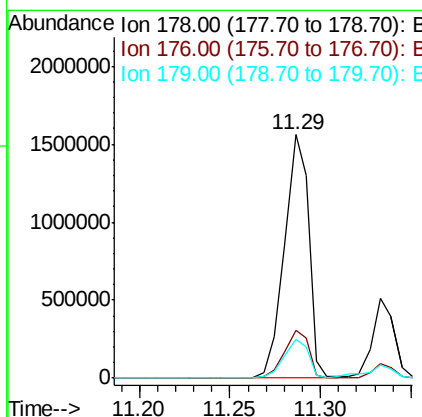
RT: 11.29 min Scan# 1564

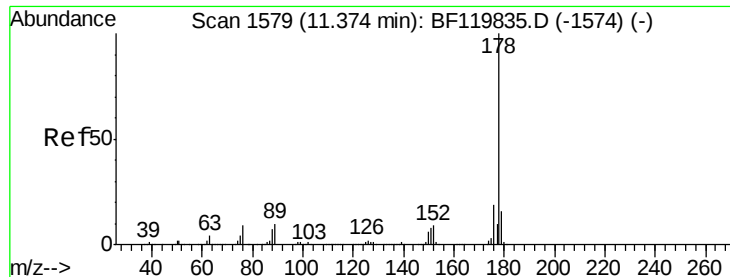
Delta R.T. -0.00 min

Lab File: BF120066.D

Acq: 17 Apr 2020 18:26

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 1462667   |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 19.5  | 15.1 22.7 |
| 179         | 15.8  | 12.2 18.4 |





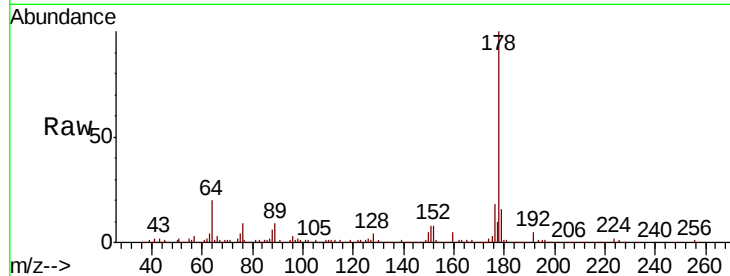
#72  
 Anthracene  
 Concen: 17.619 ng  
 RT: 11.33 min Scan# 1572  
 Delta R.T. -0.01 min  
 Lab File: BF120066.D  
 Acq: 17 Apr 2020 18:26

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WB-1-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.4  | 15.4  | 23.2  |
| 179     | 15.9  | 12.8  | 19.2  |

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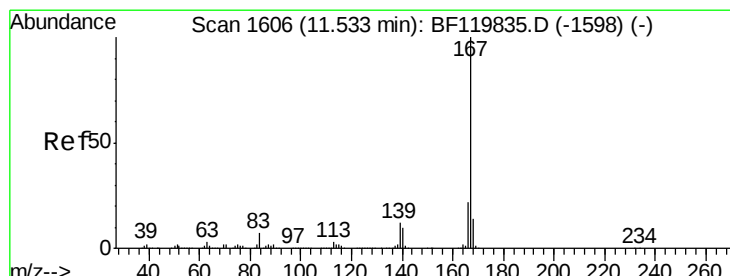
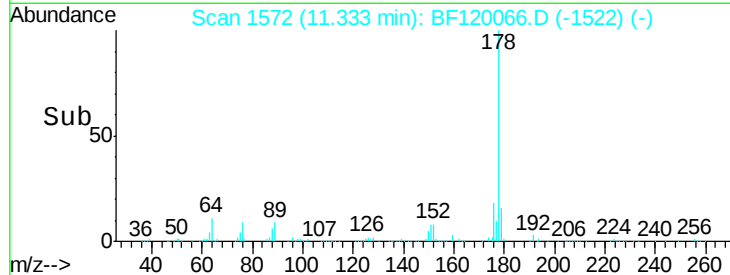
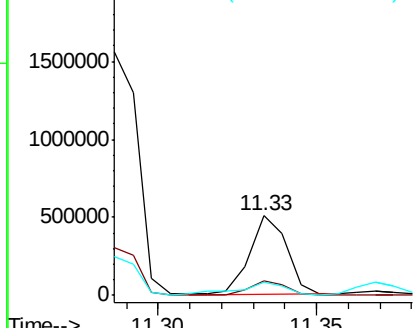


Abundance

Ion 178.00 (177.70 to 178.70): E

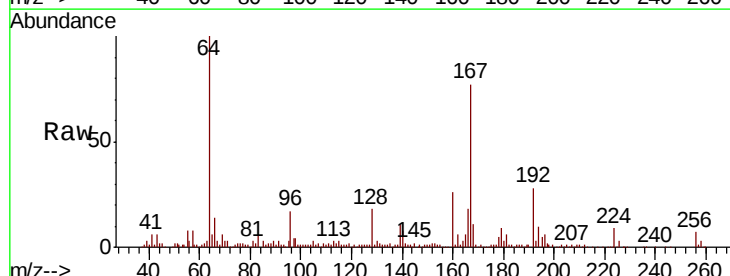
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73  
 Carbazole  
 Concen: 4.670 ng  
 RT: 11.49 min Scan# 1599  
 Delta R.T. -0.00 min  
 Lab File: BF120066.D  
 Acq: 17 Apr 2020 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.9  | 17.4  | 26.0  |
| 139     | 13.8  | 9.8   | 14.8  |

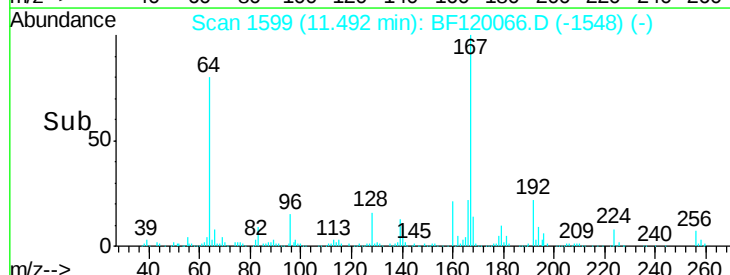
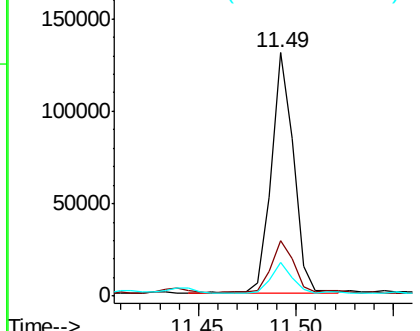


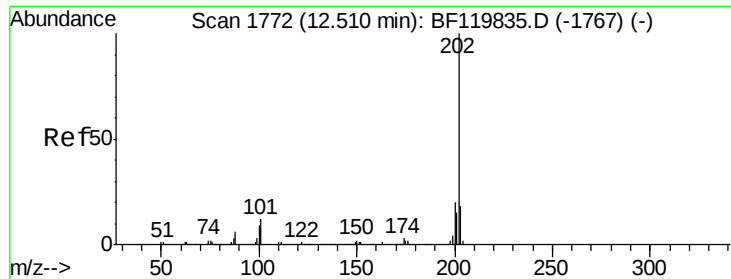
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 39.450 ng

RT: 12.49 min Scan# 1769

Delta R.T. 0.02 min

Lab File: BF120066.D

Acq: 17 Apr 2020 18:26

Instrument :

BNA\_F

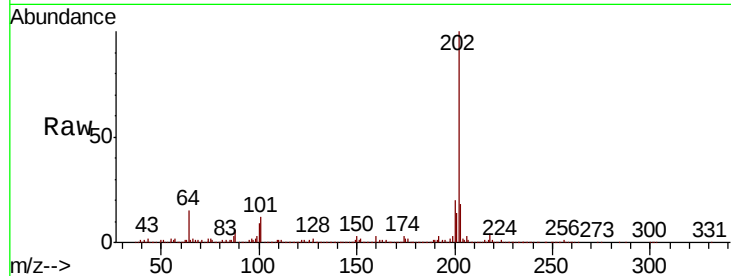
ClientSampled :

WB-1-1

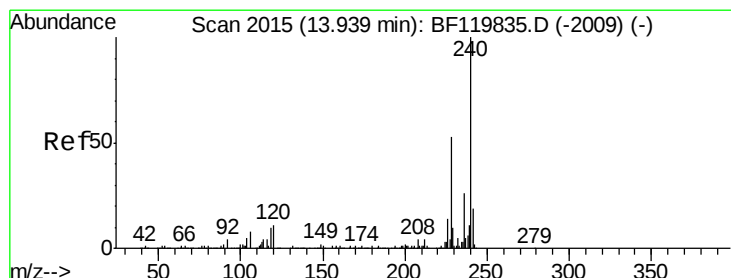
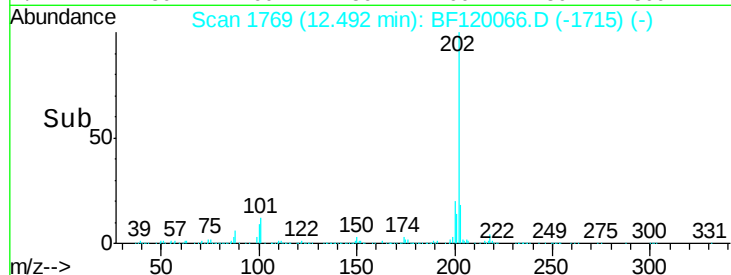
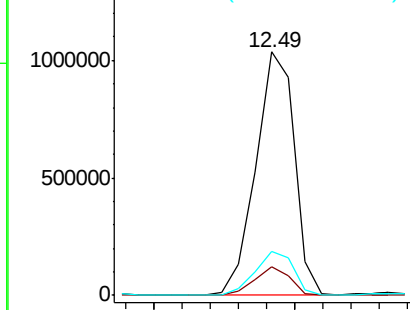
| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 978003 |       |       |
| 101     | 11.7 | 0.0   | 32.3   |       |       |
| 203     | 18.3 | 0.0   | 37.6   |       |       |

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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

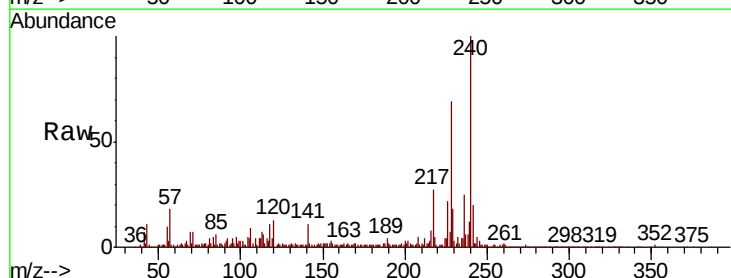
RT: 13.90 min Scan# 2009

Delta R.T. -0.00 min

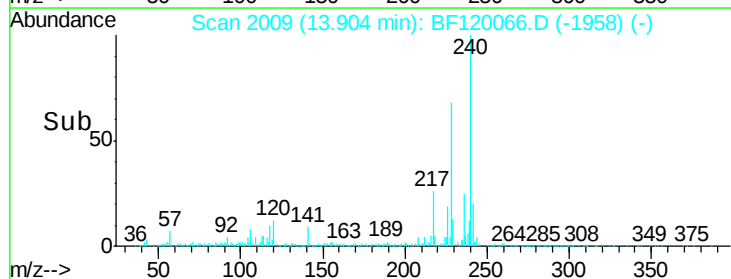
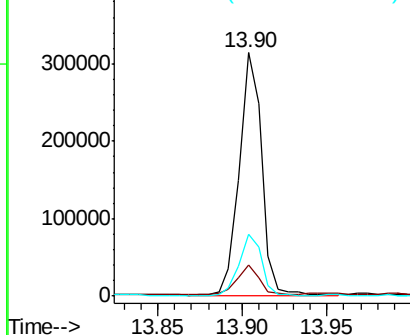
Lab File: BF120066.D

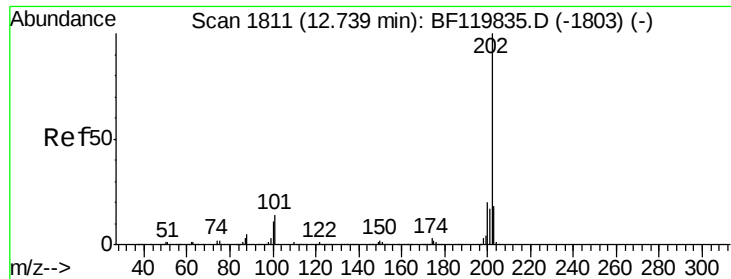
Acq: 17 Apr 2020 18:26

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 240     | 100  |       | 287784 |       |       |
| 120     | 12.6 | 9.0   | 13.6   |       |       |
| 236     | 25.2 | 20.7  | 31.1   |       |       |



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





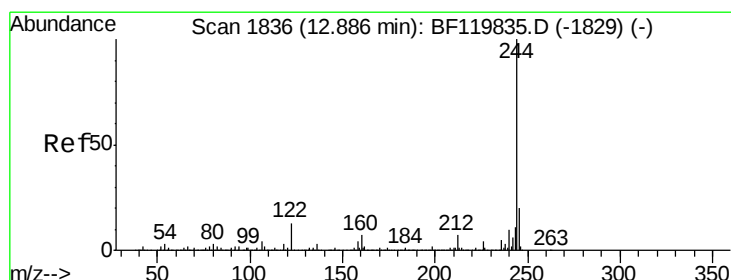
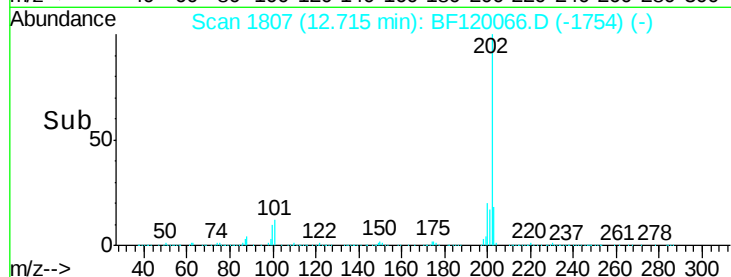
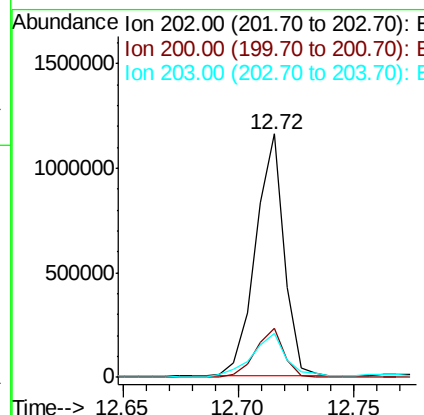
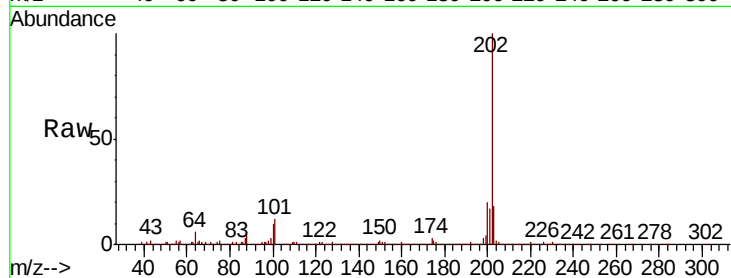
#78  
Pvrene  
Concen: 41.387 ng  
RT: 12.72 min Scan# 1807  
Delta R.T. 0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
WB-1-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.3  | 16.2  | 24.2  |
| 203     | 18.2  | 14.1  | 21.1  |

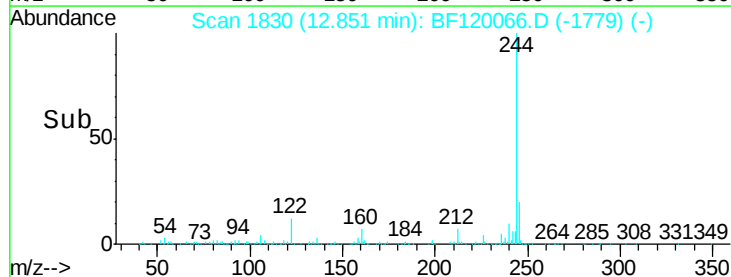
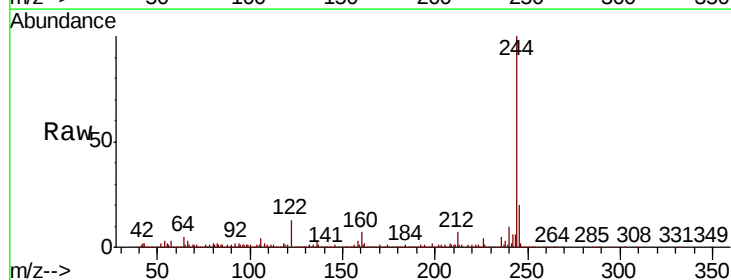
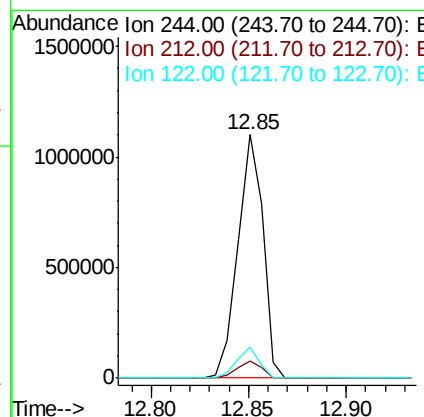
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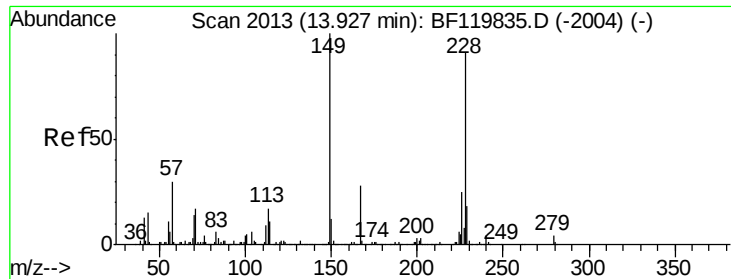
mohammad  
4/21/2020 8:22:42 AM



#79  
Terphenyl-d14  
Concen: 57.326 ng  
RT: 12.85 min Scan# 1830  
Delta R.T. -0.00 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 5.4   | 8.0   |
| 122     | 12.5  | 10.3  | 15.5  |





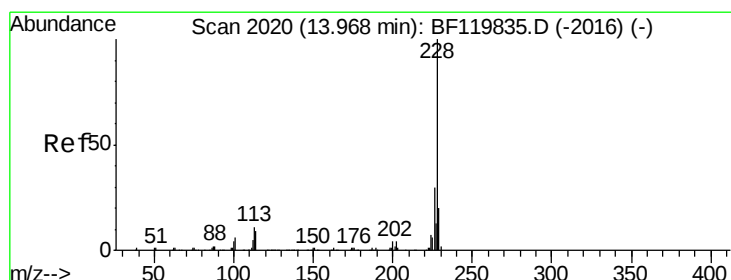
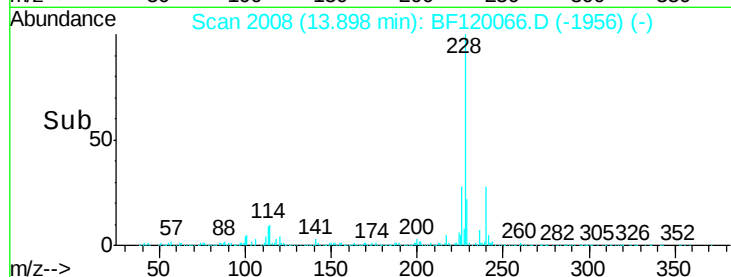
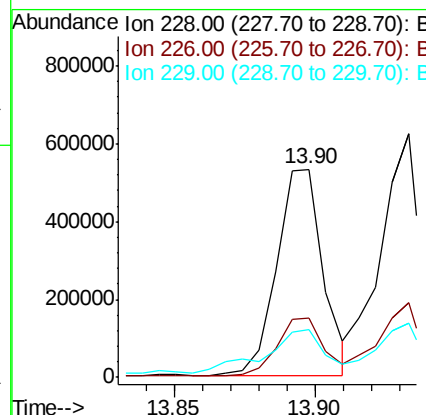
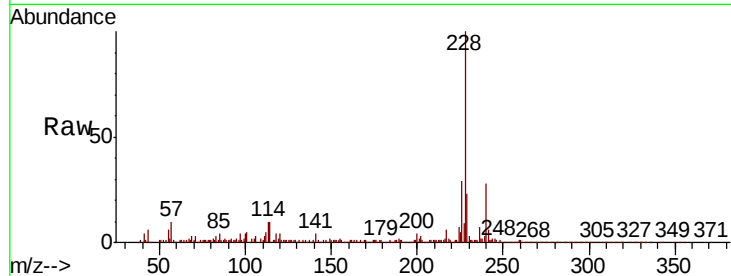
#81  
Benzo(a)anthracene  
Concen: 31.861 ng  
RT: 13.90 min Scan# 2008  
Delta R.T. 0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
WB-1-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.7  | 21.9  | 32.9  |
| 229     | 22.7  | 15.9  | 23.9  |

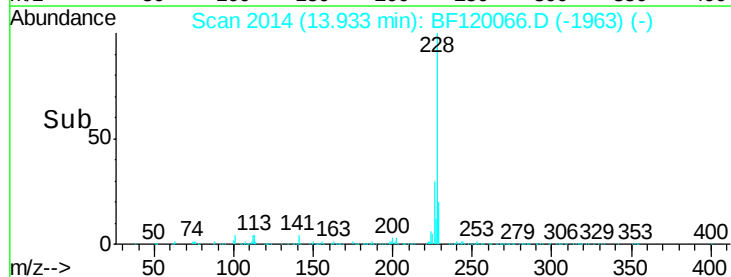
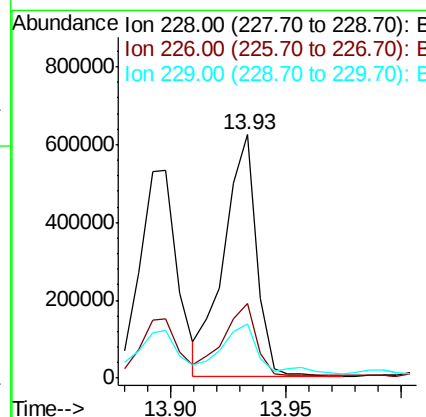
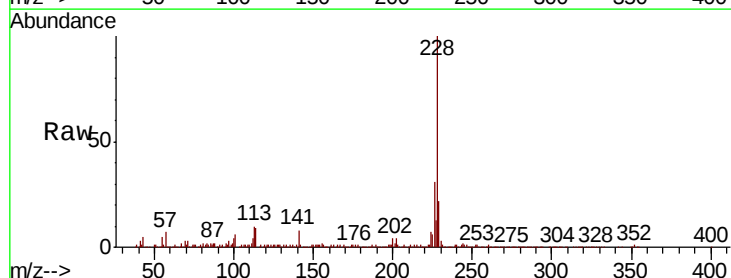
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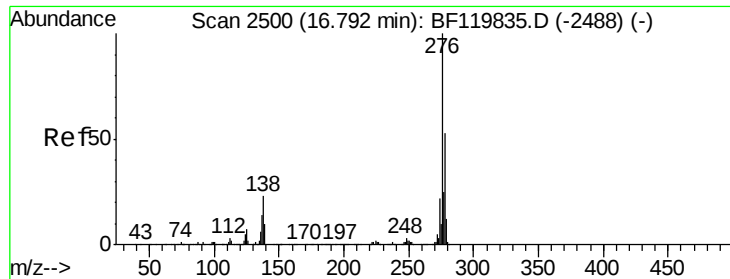
mohammad  
4/21/2020 8:22:42 AM



#83  
Chrysene  
Concen: 31.679 ng  
RT: 13.93 min Scan# 2014  
Delta R.T. -0.00 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 24.2  | 36.2  |
| 229     | 22.3  | 15.9  | 23.9  |





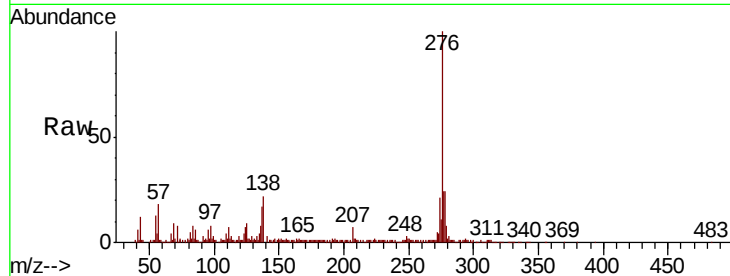
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 13.073 ng  
RT: 16.73 min Scan# 2489  
Delta R.T. 0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
WB-1-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.9  | 18.0  | 27.0  |
| 277     | 24.1  | 20.1  | 30.1  |

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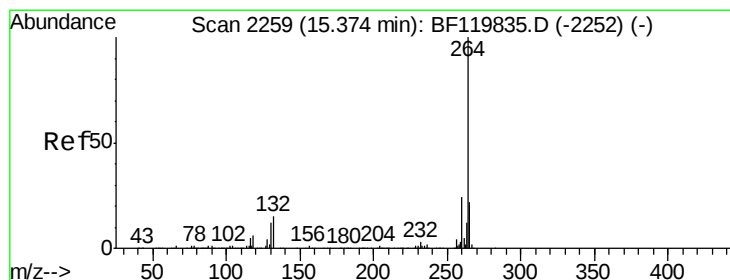
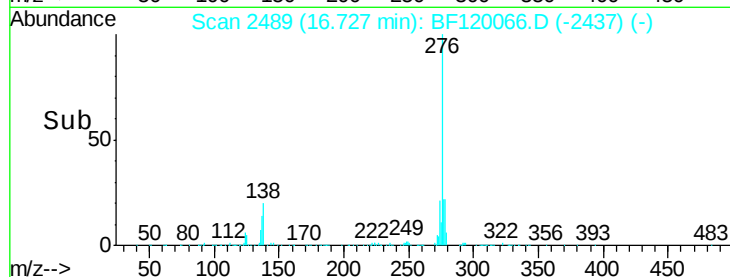
Abundance

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

Time-->



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.34 min Scan# 2253  
Delta R.T. 0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.3  | 28.9  |
| 265     | 23.7  | 17.6  | 26.4  |

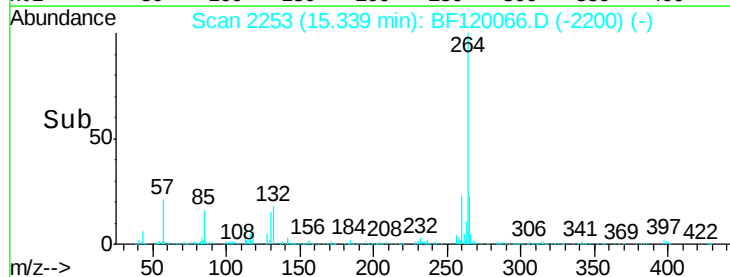
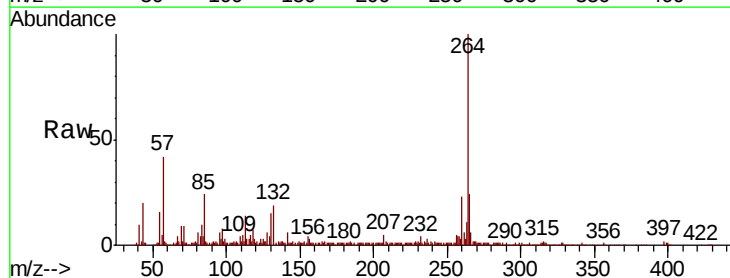
Abundance

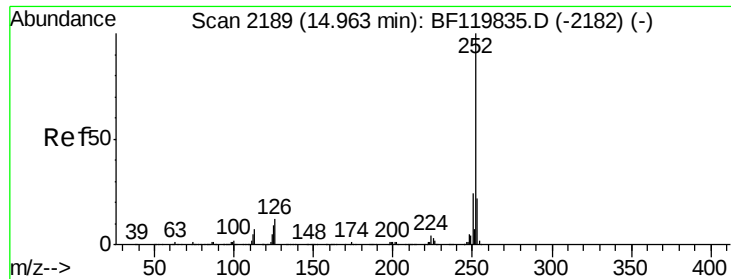
Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

Time-->





#88

Benzo(b)fluoranthene

Concen: 33.899 ng m

RT: 14.94 min Scan# 2185

Delta R.T. 0.02 min

Lab File: BF120066.D

Acq: 17 Apr 2020 18:26

Instrument :

BNA\_F

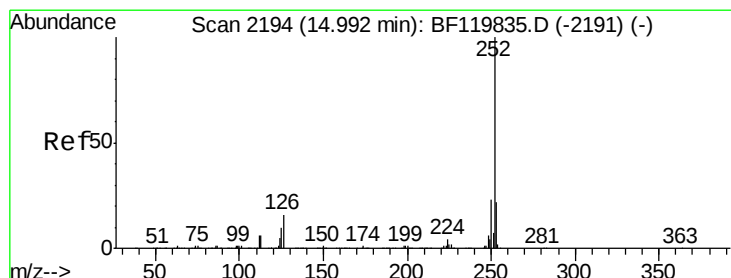
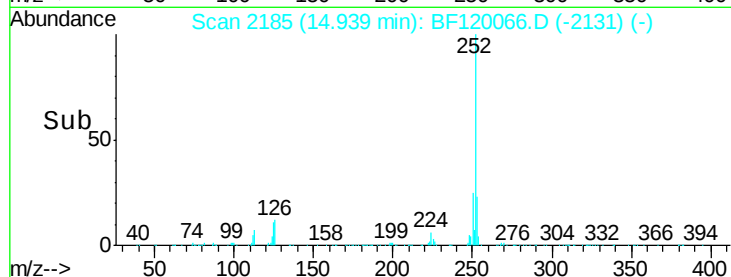
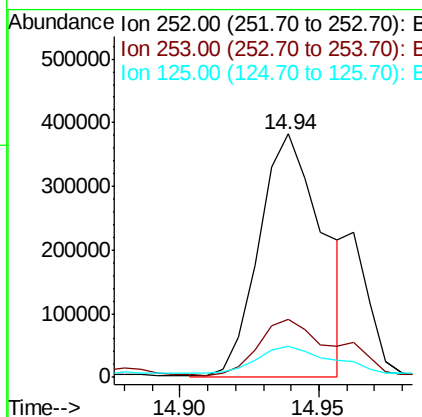
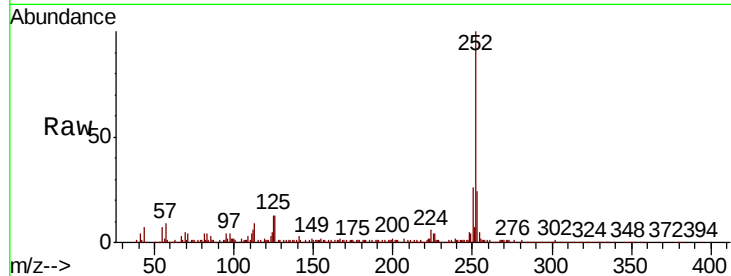
ClientSampled :

WB-1-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 608103 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.8  | 17.7  | 26.5   |
| 125       | 12.9  | 7.4   | 11.2#  |

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#89

Benzo(k)fluoranthene

Concen: 8.718 ng m

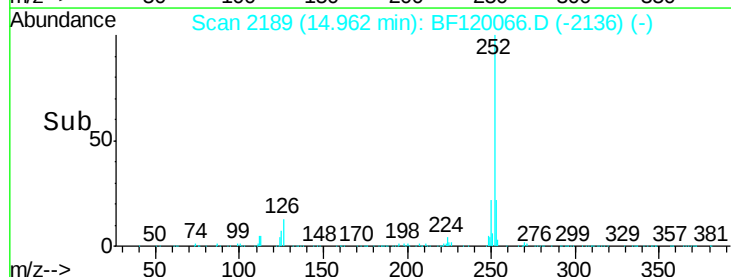
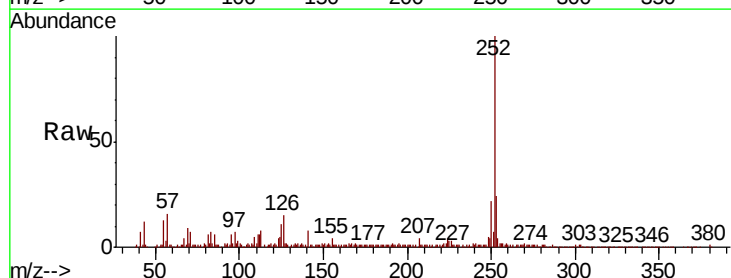
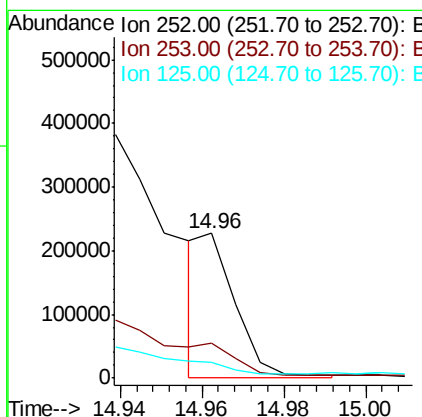
RT: 14.96 min Scan# 2189

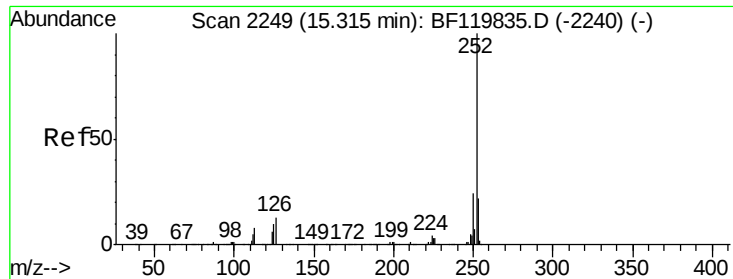
Delta R.T. 0.01 min

Lab File: BF120066.D

Acq: 17 Apr 2020 18:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 134935 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.9  | 17.8  | 26.8   |
| 125       | 10.6  | 7.7   | 11.5   |





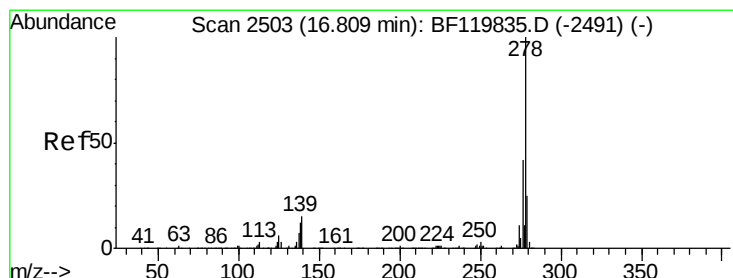
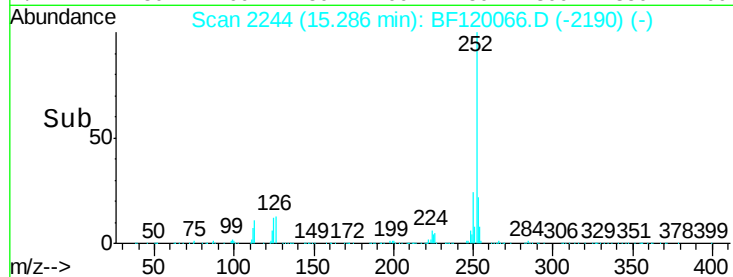
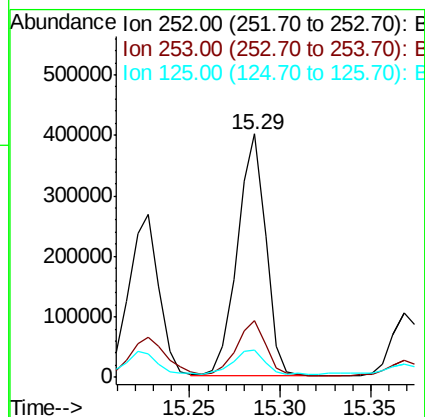
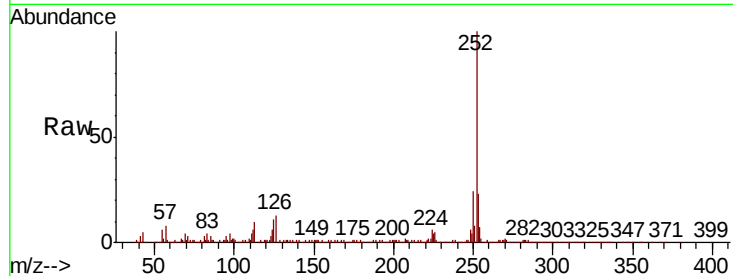
#90  
Benzo(a)pyrene  
Concen: 28.762 ng  
RT: 15.29 min Scan# 2244  
Delta R.T. 0.02 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampled :  
WB-1-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 433819 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.1  | 17.4  | 26.2   |
| 125       | 11.5  | 8.3   | 12.5   |

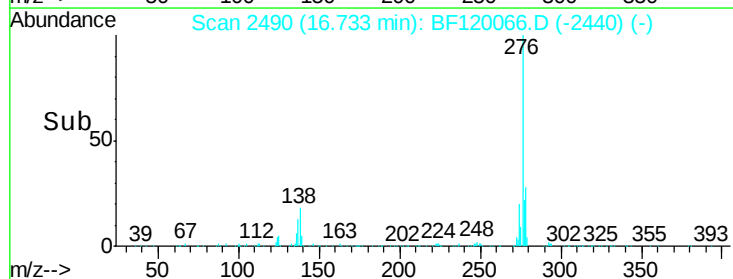
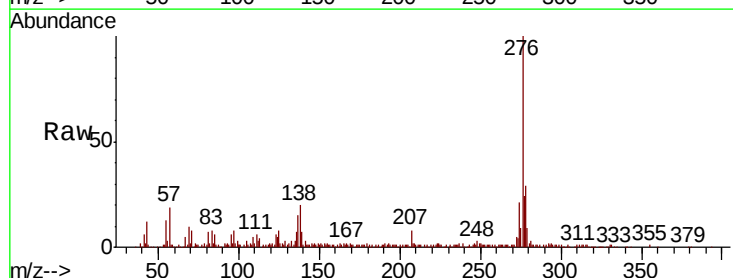
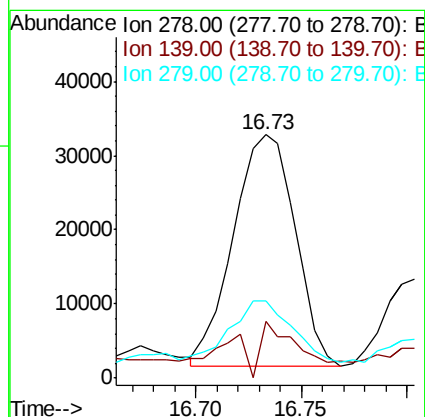
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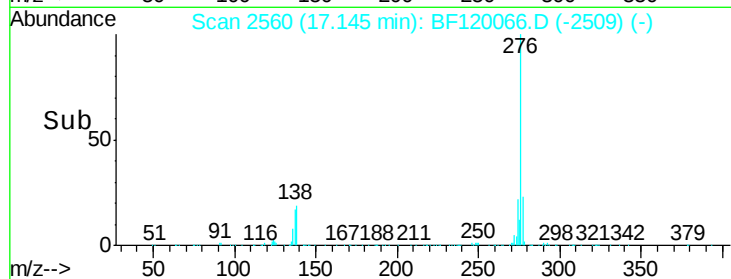
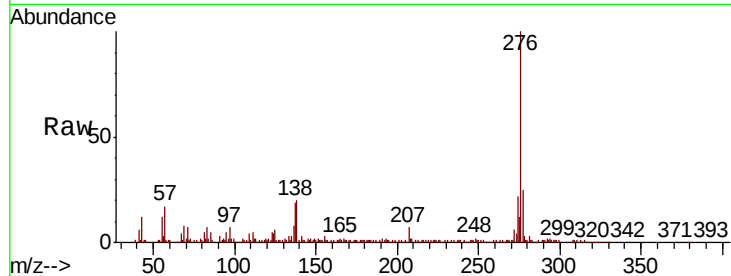
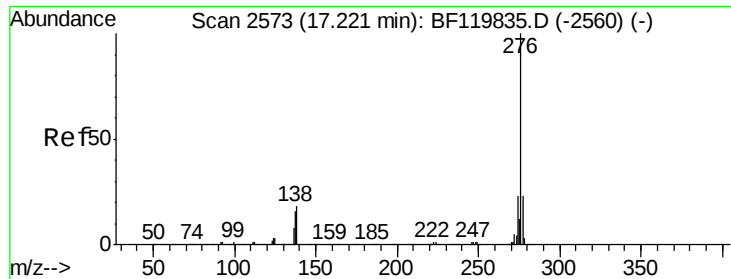
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#91  
Dibenzo(a,h)anthracene  
Concen: 4.750 ng  
RT: 16.73 min Scan# 2490  
Delta R.T. -0.01 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 63465 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 23.4  | 11.6  | 17.4# |
| 279       | 31.7  | 19.7  | 29.5# |





#92  
Benzo(a,h,i)perylene  
Concen: 16.456 ng  
RT: 17.14 min Scan# 2560  
Delta R.T. -0.00 min  
Lab File: BF120066.D  
Acq: 17 Apr 2020 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
WB-1-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.6  | 18.5  | 27.7  |
| 138     | 20.5  | 14.6  | 22.0  |

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