

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\  
 Data File : BF114490.D  
 Acq On : 22 May 2019 18:34  
 Operator : JU/SJ  
 Sample : K2641-11  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-051719

Manual Integrations  
 APPROVED

mohammad  
 5/23/2019 4:08:13 AM

Quant Time: May 22 19:04:38 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 20 04:47:40 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.83  | 152  | 176111   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.11  | 136  | 670126   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.86  | 164  | 302313   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.35 | 188  | 524874   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.00 | 240  | 385580   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.47 | 264  | 364166   | 20.00 | ng    | 0.00     |

|                             |       |     |         |       |    |       |
|-----------------------------|-------|-----|---------|-------|----|-------|
| System Monitoring Compounds |       |     |         |       |    |       |
| 5) 2-Fluorophenol           | 5.46  | 112 | 952474  | 87.03 | ng | -0.01 |
| 7) Phenol-d6                | 6.47  | 99  | 1191620 | 92.06 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 7.39  | 82  | 703378  | 58.90 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol    | 10.66 | 330 | 245831  | 78.66 | ng | 0.00  |
| 45) 2-Fluorobiphenyl        | 9.19  | 172 | 1226652 | 61.38 | ng | 0.00  |
| 79) Terphenyl-d14           | 12.93 | 244 | 1004937 | 53.73 | ng | 0.00  |

|                            |       |     |         |        |    |      |
|----------------------------|-------|-----|---------|--------|----|------|
| Target Compounds           |       |     |         | Qvalue |    |      |
| 37) 2-Methylnaphthalene    | 8.83  | 142 | 111684  | 5.530  | ng | 98   |
| 38) 1-Methylnaphthalene    | 8.92  | 142 | 91857   | 4.830  | ng | 98   |
| 50) Dimethylphthalate      | 9.57  | 163 | 165351  | 7.451  | ng | 97   |
| 52) Acenaphthene           | 9.90  | 154 | 263517  | 14.365 | ng | 99   |
| 55) Dibenzofuran           | 10.07 | 168 | 177552  | 6.601  | ng | 95   |
| 58) Fluorene               | 10.41 | 166 | 176447  | 8.492  | ng | 99   |
| 71) Phenanthrene           | 11.37 | 178 | 941959  | 36.888 | ng | 97   |
| 72) Anthracene             | 11.43 | 178 | 318573  | 12.421 | ng | 98   |
| 73) Carbazole              | 11.59 | 167 | 100829  | 4.123  | ng | 96   |
| 75) Fluoranthene           | 12.57 | 202 | 1260734 | 45.847 | ng | 99   |
| 78) Pyrene                 | 12.80 | 202 | 1047674 | 33.776 | ng | 99   |
| 81) Benzo(a)anthracene     | 13.99 | 228 | 539753  | 21.643 | ng | 99   |
| 83) Chrysene               | 14.02 | 228 | 442253  | 18.090 | ng | 98   |
| 86) Indeno(1,2,3-cd)pyrene | 16.95 | 276 | 182092  | 8.428  | ng | 95   |
| 88) Benzo(b)fluoranthene   | 15.04 | 252 | 561013m | 24.046 | ng |      |
| 89) Benzo(k)fluoranthene   | 15.06 | 252 | 184554m | 8.611  | ng |      |
| 90) Benzo(a)pyrene         | 15.40 | 252 | 377978  | 18.409 | ng | 97   |
| 91) Dibenzo(a,h)anthracene | 16.95 | 278 | 47645   | 2.792  | ng | # 75 |
| 92) Benzo(a,h,i)perylene   | 17.40 | 276 | 169879  | 9.935  | ng | 97   |

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

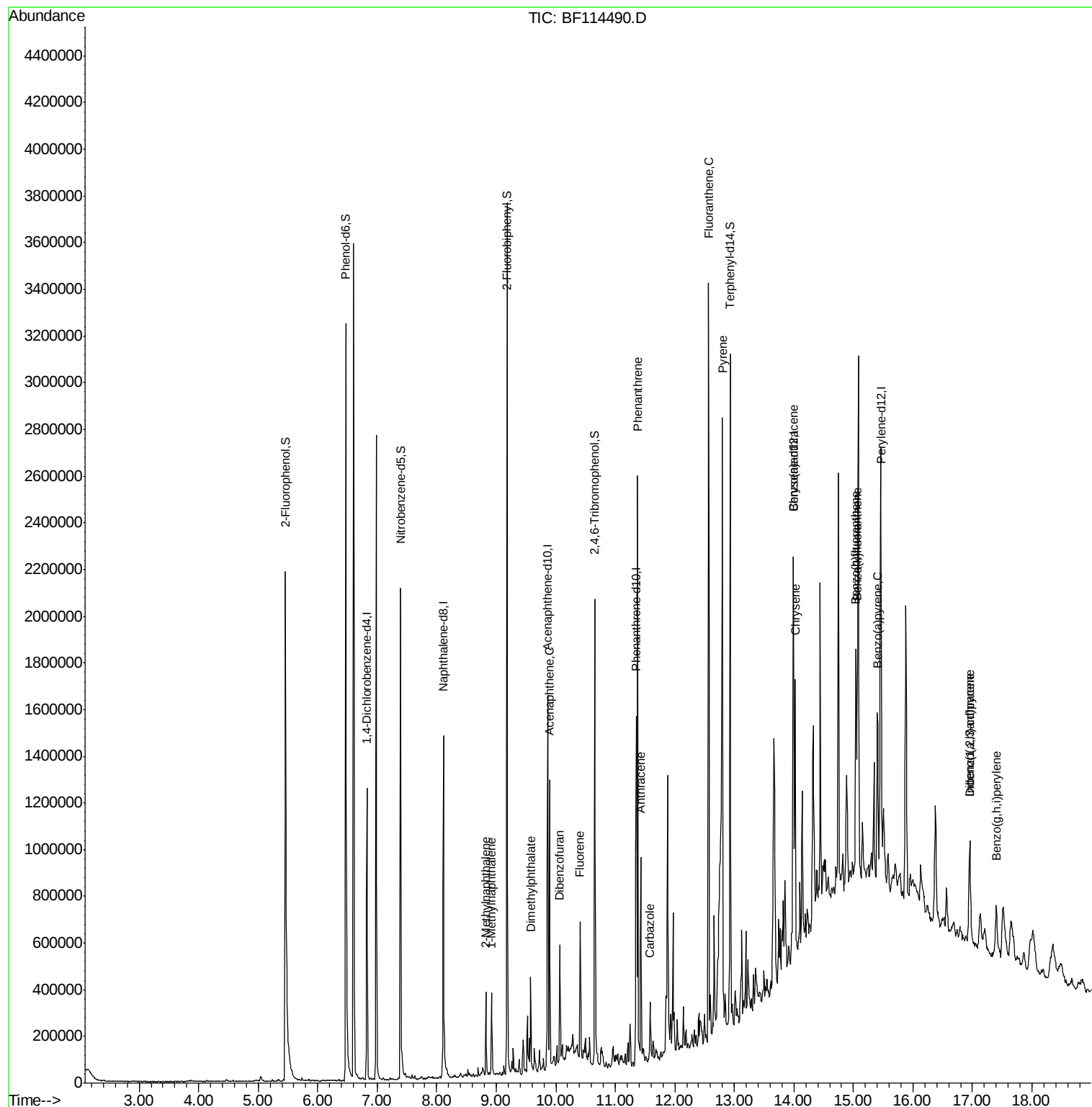
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\  
Data File : BF114490.D  
Acq On : 22 May 2019 18:34  
Operator : JU/SJ  
Sample : K2641-11  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

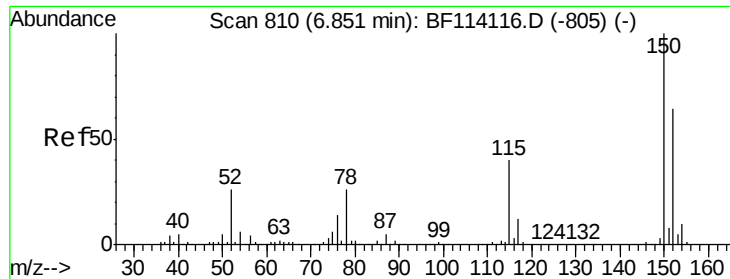
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-051719

Manual Integrations  
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Quant Time: May 22 19:04:38 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 20 04:47:40 2019  
Response via : Initial Calibration





#1

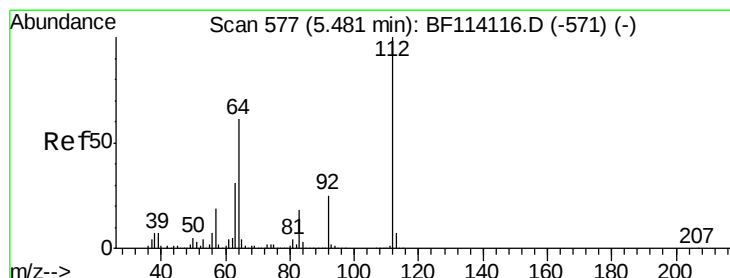
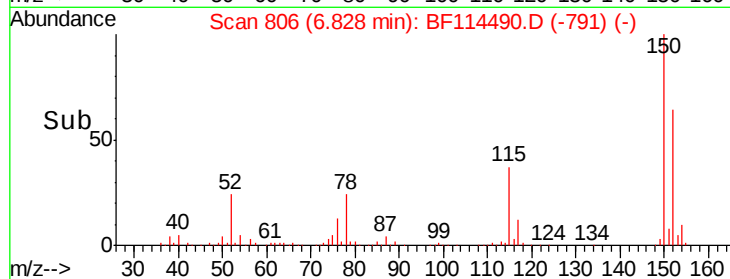
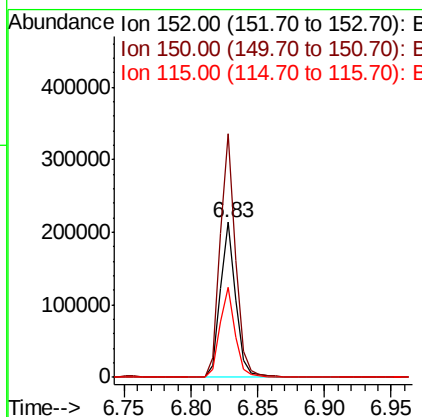
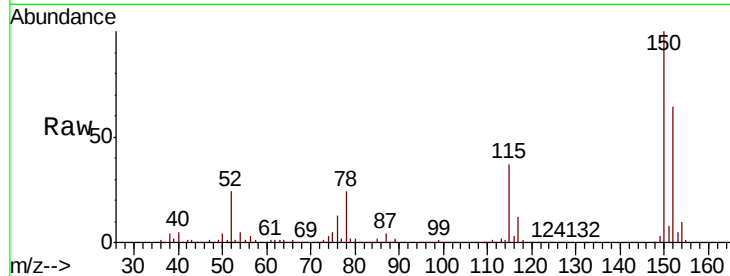
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 806  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-051719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.3 | 124.3 | 186.5 |
| 115     | 58.1  | 49.1  | 73.7  |

Manual Integrations  
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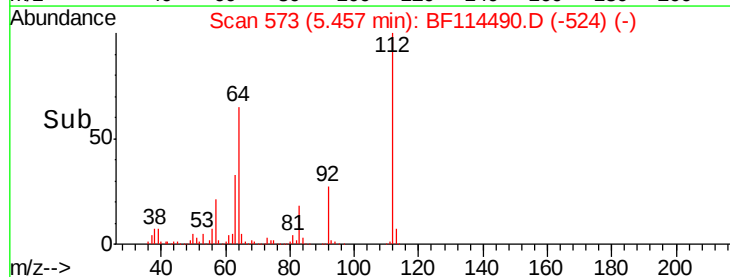
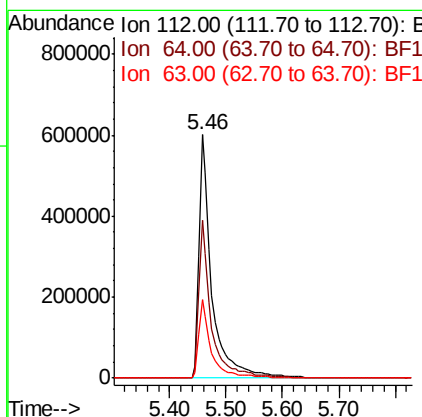
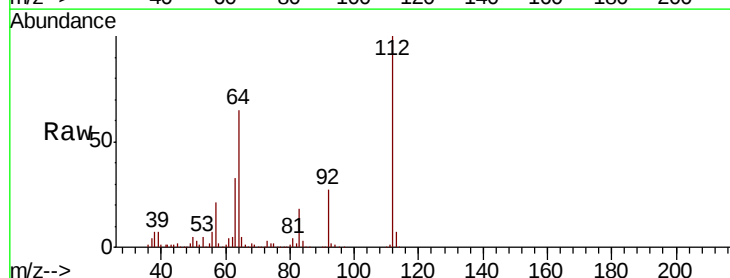
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#5

2-Fluorophenol  
Concen: 87.035 ng  
RT: 5.46 min Scan# 573  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.6  | 49.0  | 73.6  |
| 63      | 32.5  | 24.6  | 37.0  |





#7

Phenol-d6

Concen: 92.064 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF114490.D

Acq: 22 May 2019 18:34

Instrument :

BNA\_F

ClientSampleId :

CL-02-051719

Tot Ion: 99 Resp: 1191620

Ion Ratio Lower Upper

99 100

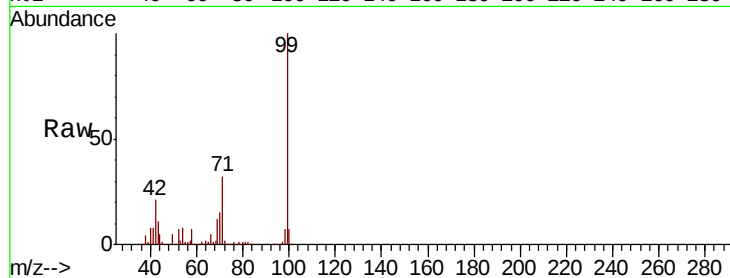
42 21.3 17.9 26.9

71 32.4 26.2 39.2

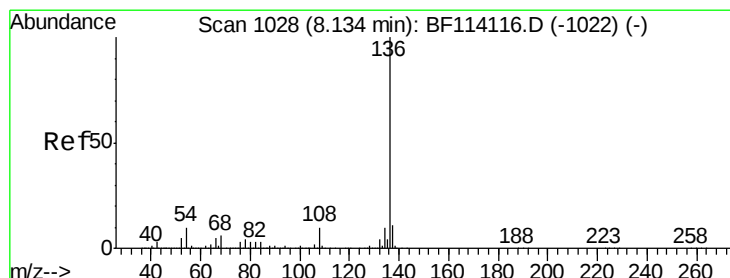
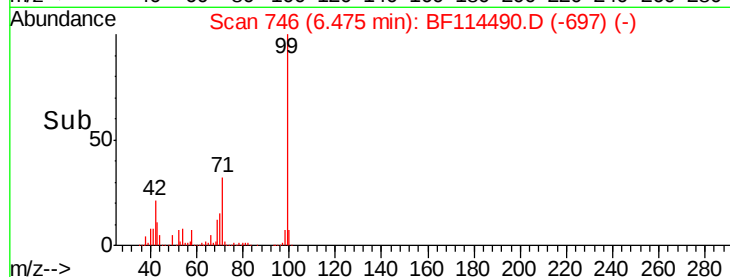
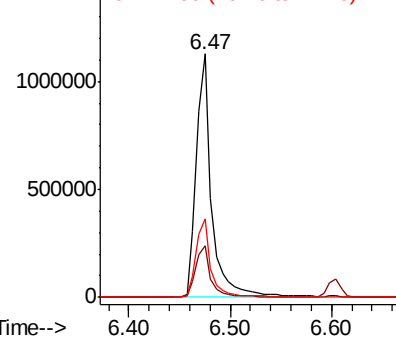
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.11 min Scan# 1024

Delta R.T. -0.01 min

Lab File: BF114490.D

Acq: 22 May 2019 18:34

Tgt Ion: 136 Resp: 670126

Ion Ratio Lower Upper

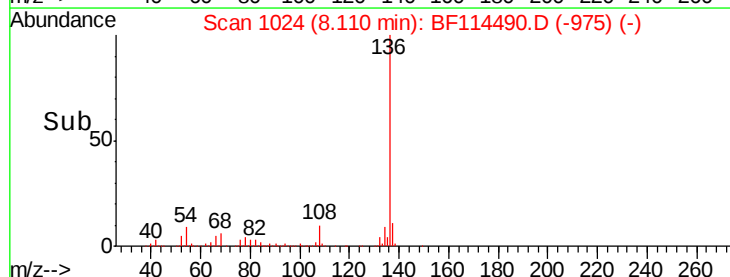
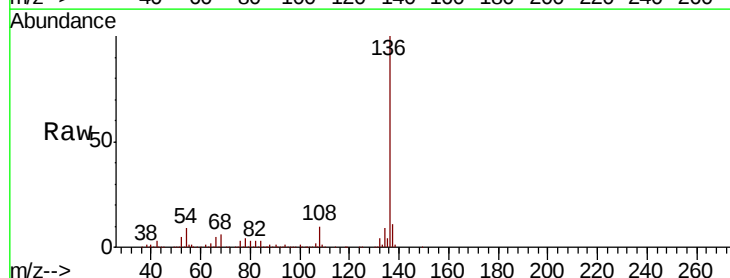
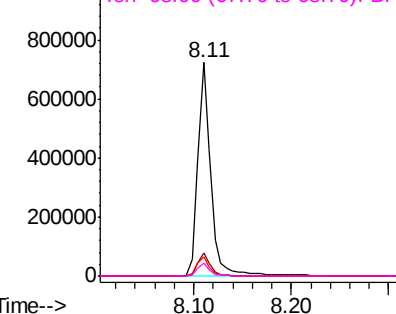
136 100

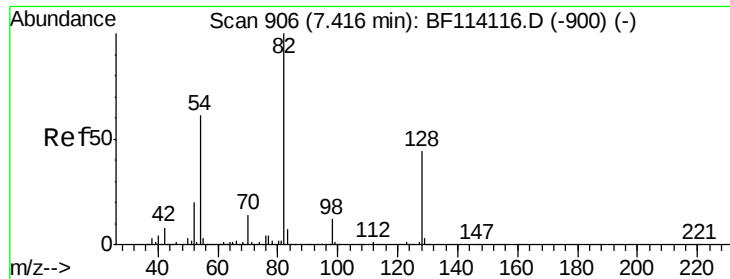
137 10.9 8.8 13.2

54 9.2 7.8 11.8

68 6.0 5.1 7.7

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





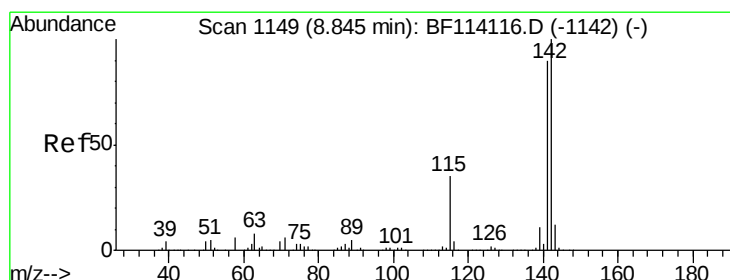
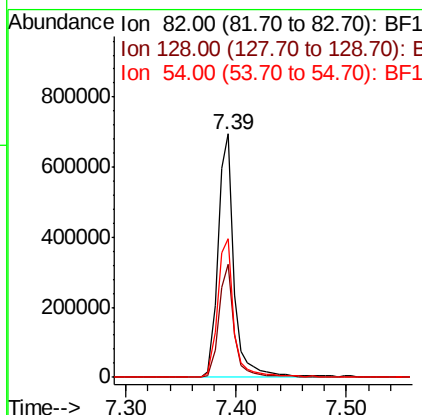
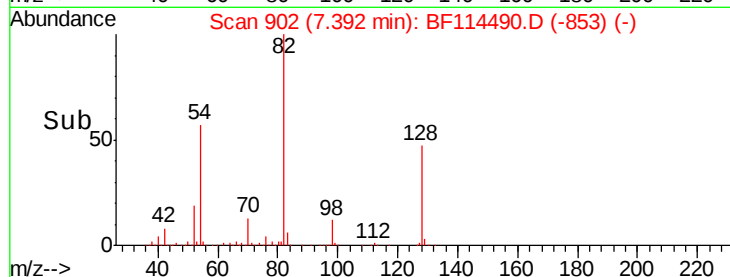
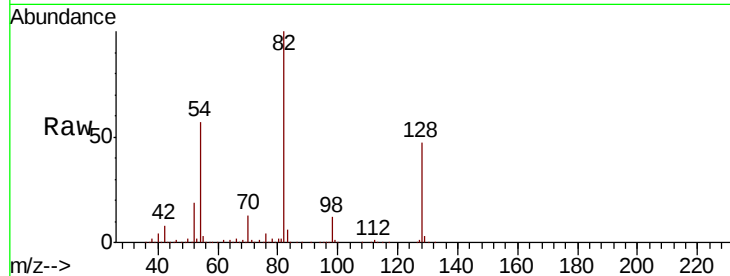
#23  
Nitrobenzene-d5  
Concen: 58.905 ng  
RT: 7.39 min Scan# 902  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-051719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.7  | 35.5  | 53.3  |
| 54      | 57.1  | 48.5  | 72.7  |

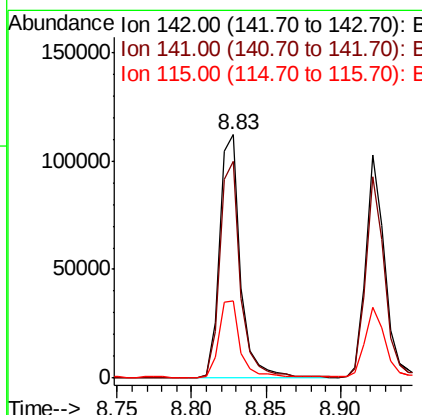
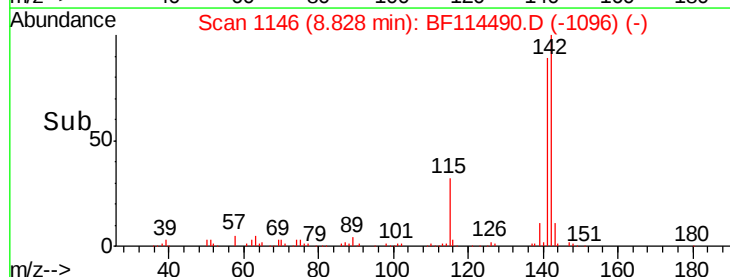
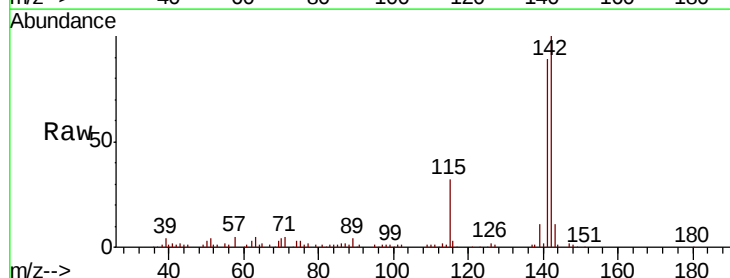
Manual Integrations  
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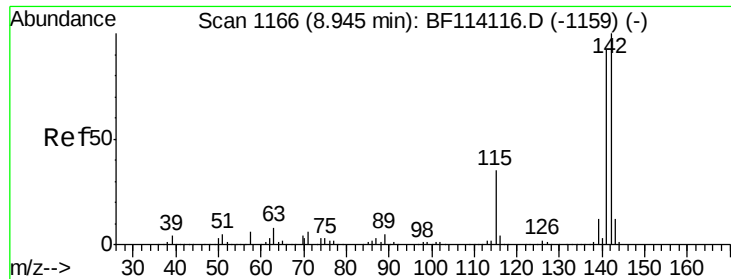
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#37  
2-Methylnaphthalene  
Concen: 5.530 ng  
RT: 8.83 min Scan# 1146  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.9  | 72.1  | 108.1 |
| 115     | 31.7  | 28.0  | 42.0  |





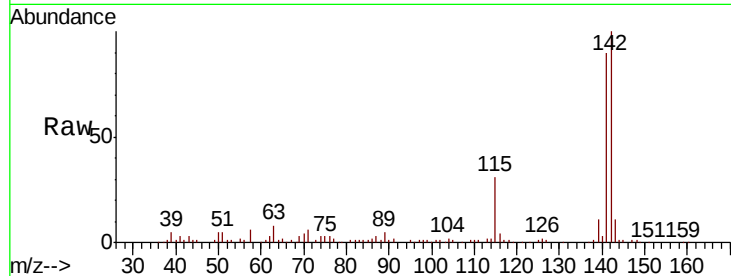
#38  
1-Methylnaphthalene  
Concen: 4.830 ng  
RT: 8.92 min Scan# 1162  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-051719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.9  | 73.4  | 110.0 |
| 116     | 3.6   | 3.1   | 4.7   |

Manual Integrations  
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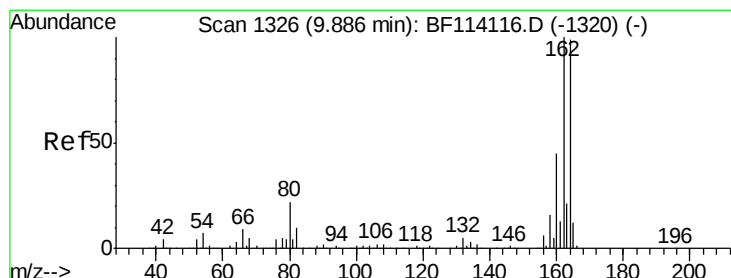
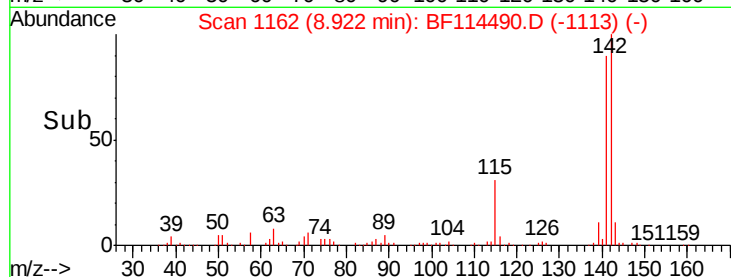
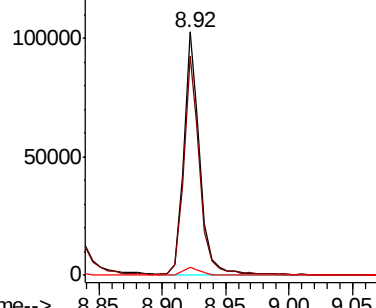


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.86 min Scan# 1322  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

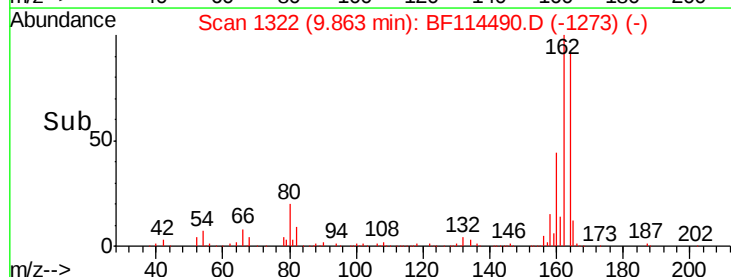
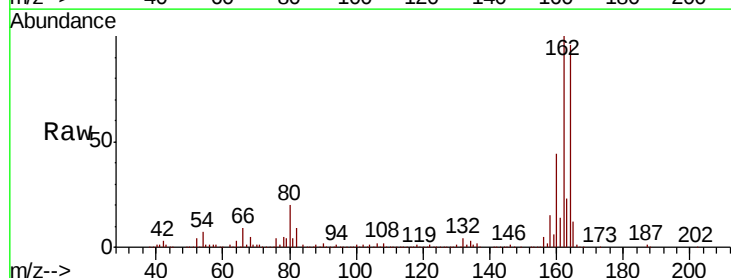
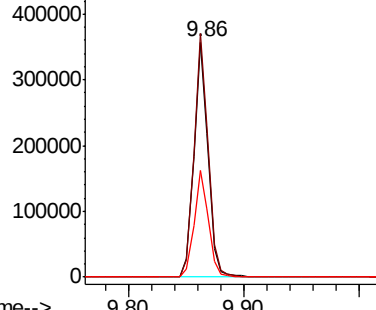
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.7 | 80.6  | 120.8 |
| 160     | 45.3  | 36.5  | 54.7  |

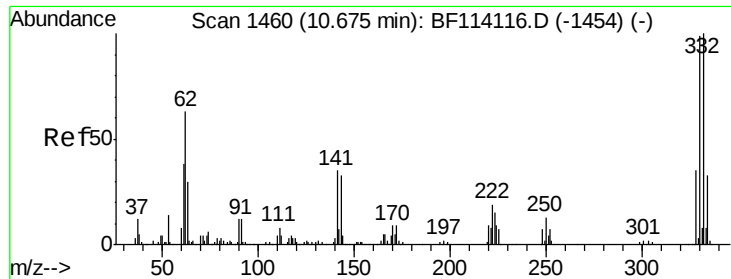
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





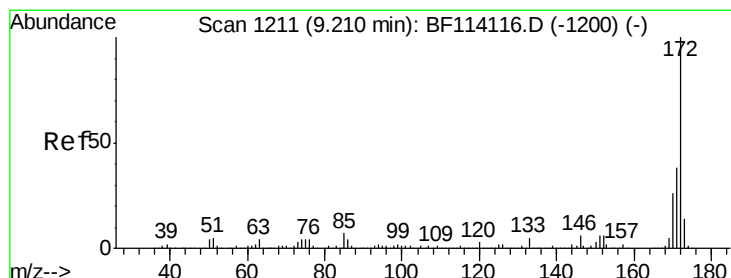
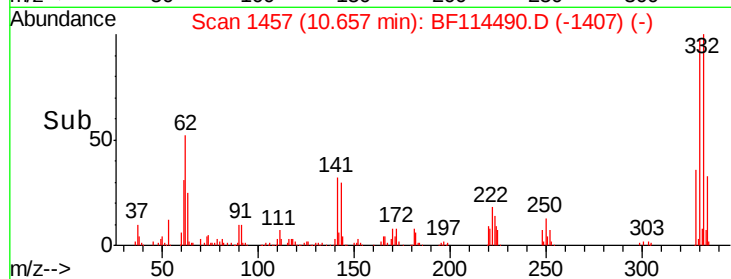
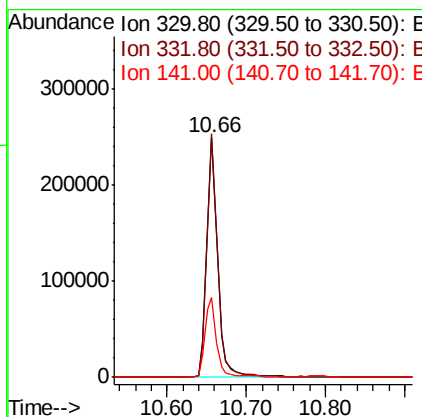
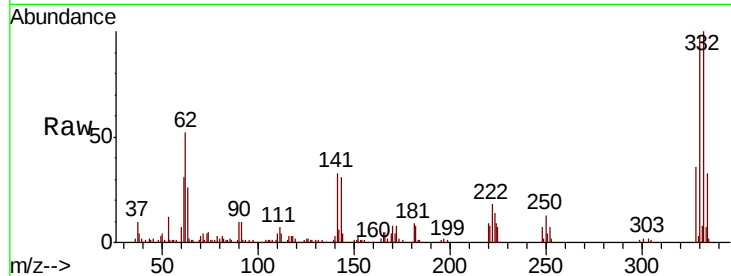
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 2,4,6-Tribromophenol  
 Concen: 78.656 ng  
 RT: 10.66 min Scan# 1457  
 Delta R.T. -0.01 min  
 Lab File: BF114490.D  
 Acq: 22 May 2019 18:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-051719

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 100.4 | 81.4 | 122.2 |       |
| 141     | 34.3  | 26.6 | 40.0  |       |

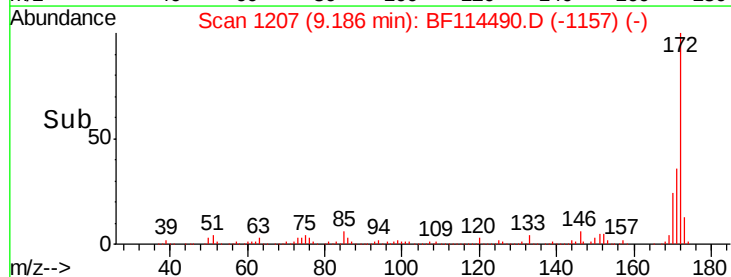
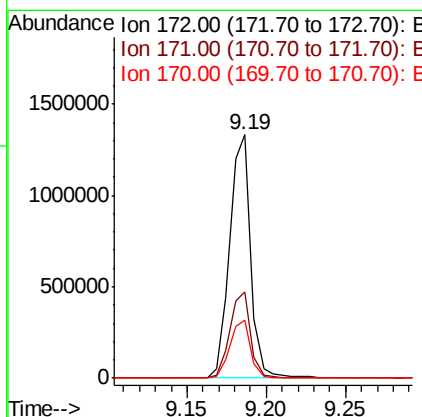
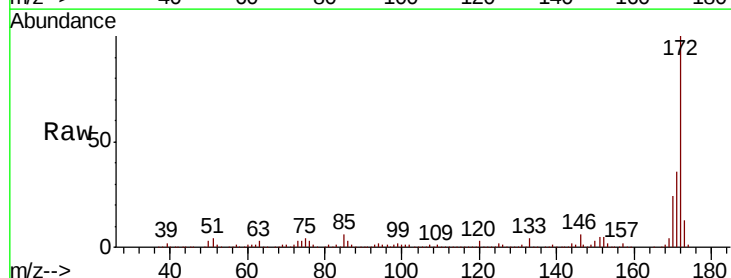
Manual Integrations  
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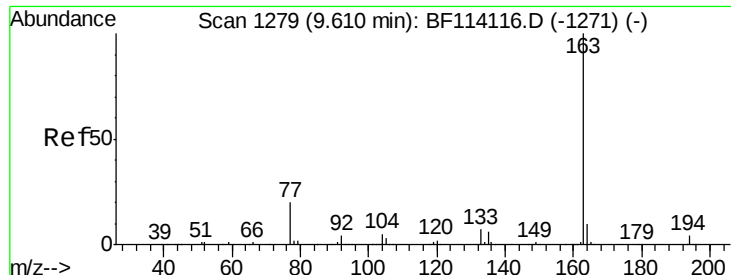
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#45  
 2-Fluorobiphenyl  
 Concen: 61.377 ng  
 RT: 9.19 min Scan# 1207  
 Delta R.T. -0.01 min  
 Lab File: BF114490.D  
 Acq: 22 May 2019 18:34

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 35.6  | 30.7 | 46.1  |       |
| 170     | 23.7  | 20.5 | 30.7  |       |





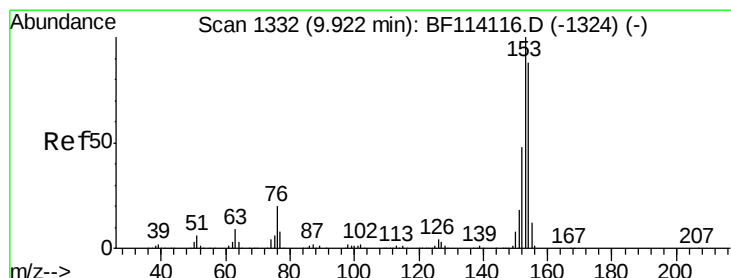
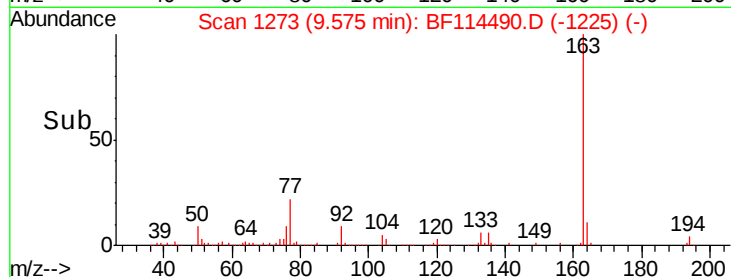
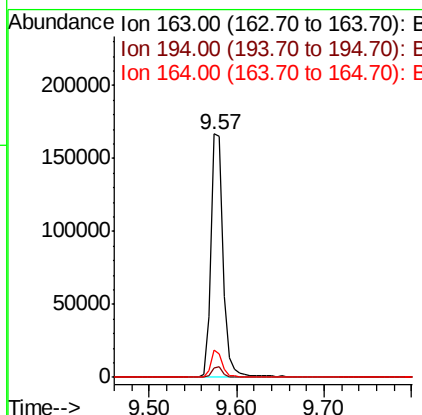
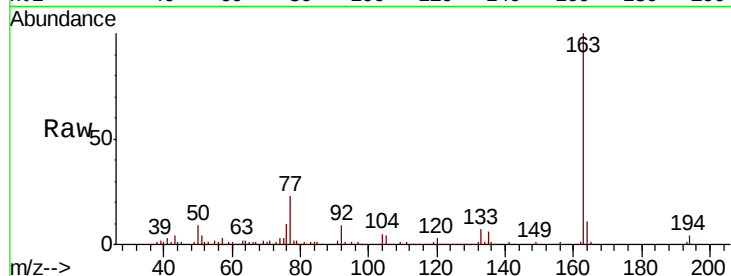
#50  
Dimethylphthalate  
Concen: 7.451 ng  
RT: 9.57 min Scan# 1273  
Delta R.T. -0.02 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-051719

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 165351 |       |       |
| 194     | 3.6   |        | 3.4   | 5.0   |
| 164     | 11.4  |        | 8.2   | 12.2  |

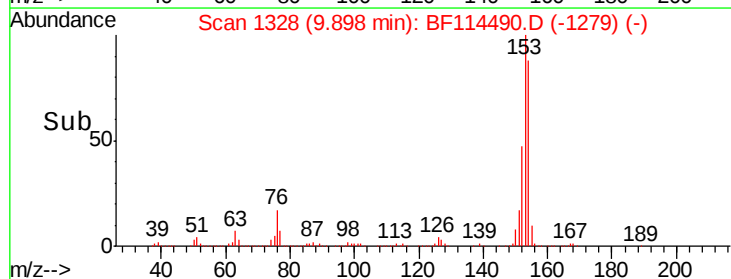
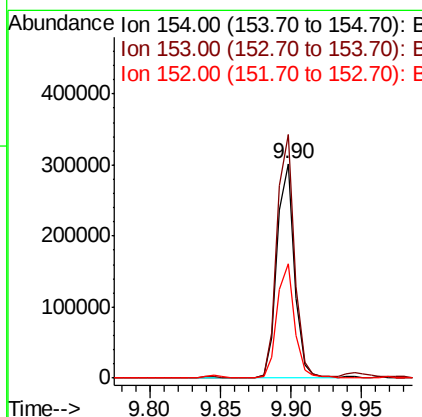
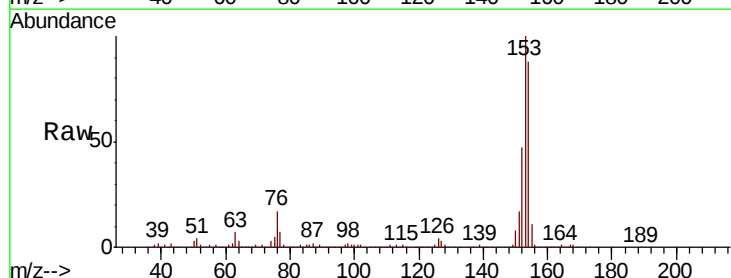
Manual Integrations  
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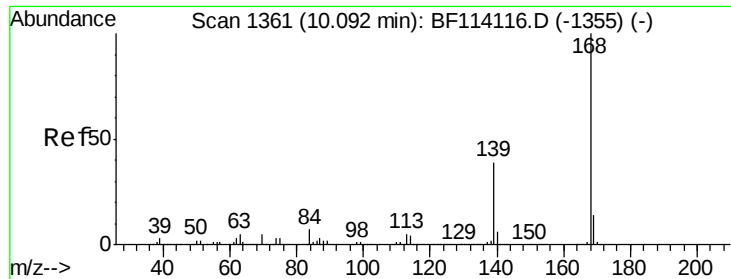
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#52  
Acenaphthene  
Concen: 14.365 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 263517 |       |       |
| 153     | 113.4 |        | 90.5  | 135.7 |
| 152     | 53.1  |        | 43.4  | 65.2  |





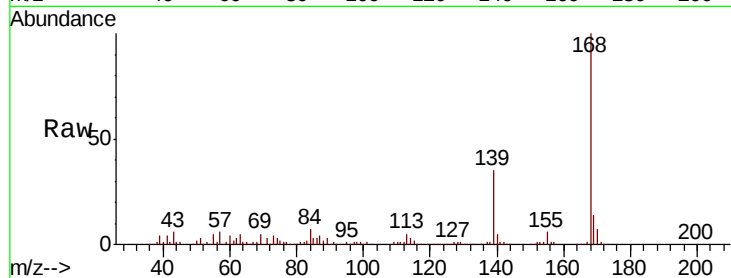
#55  
Dibenzofuran  
Concen: 6.601 ng  
RT: 10.07 min Scan# 1357  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-051719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 35.0  | 31.1  | 46.7  |
| 169     | 14.1  | 11.4  | 17.0  |

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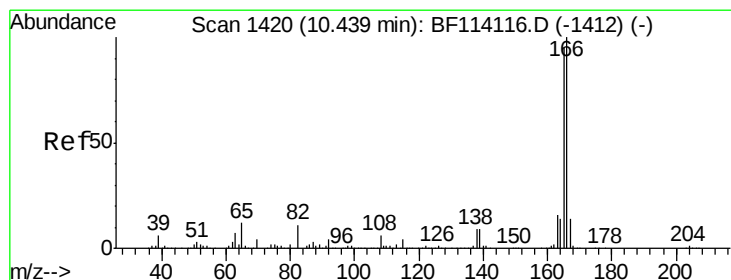
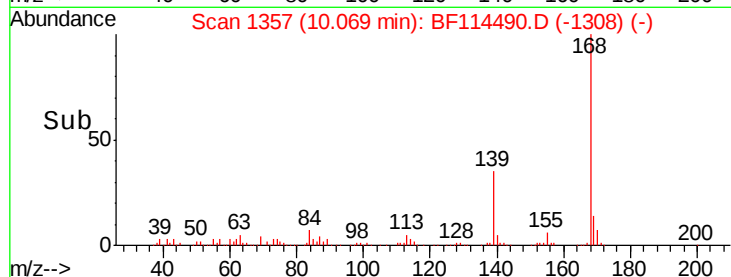
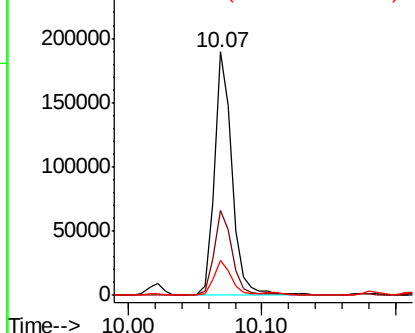


Abundance

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: 8.492 ng  
RT: 10.41 min Scan# 1415  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

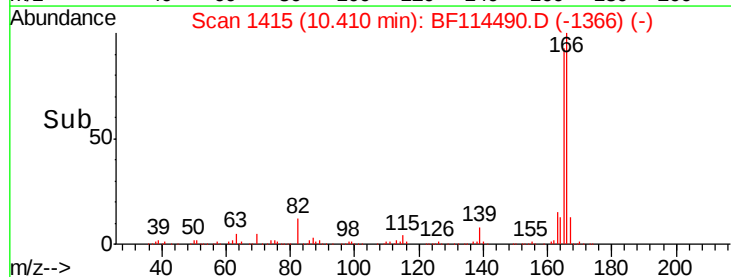
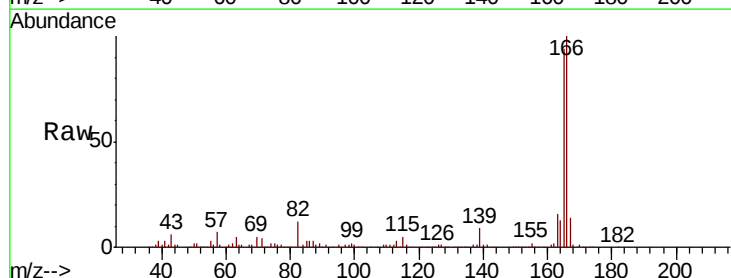
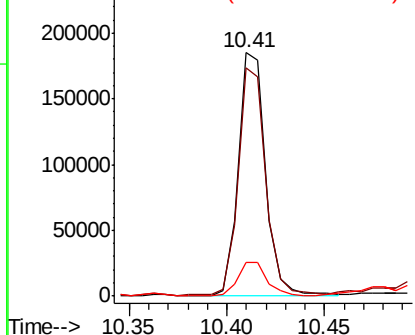
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 93.5  | 76.1  | 114.1 |
| 167     | 13.8  | 11.1  | 16.7  |

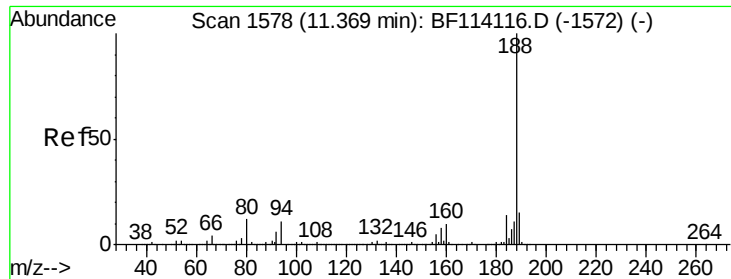
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.35 min Scan# 1575

Delta R.T. -0.01 min

Lab File: BF114490.D

Acq: 22 May 2019 18:34

Instrument :

BNA\_F

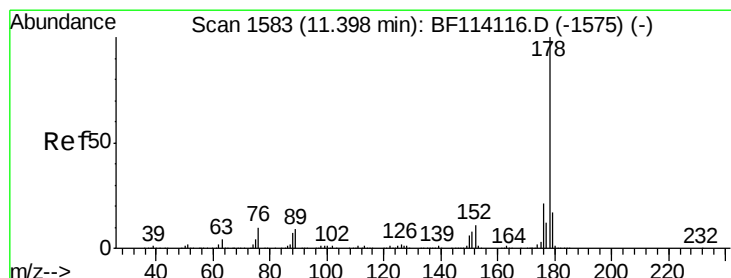
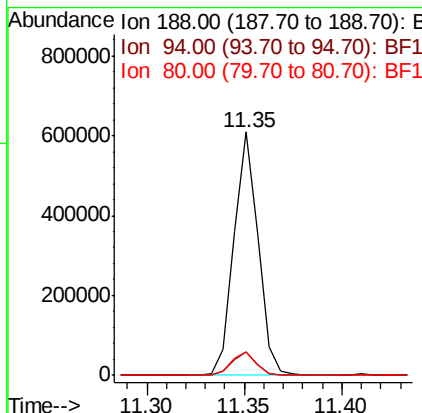
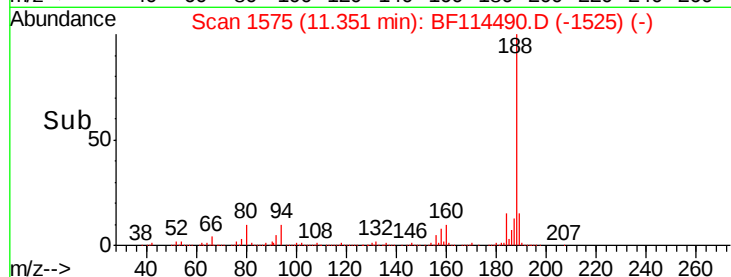
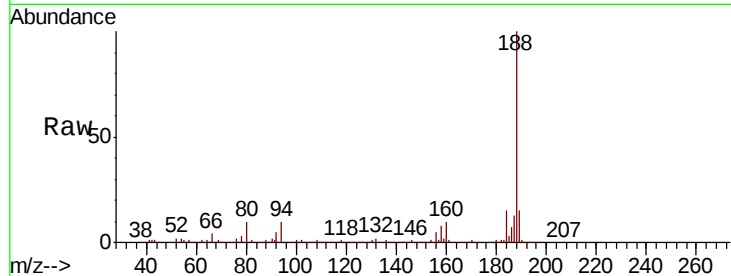
ClientSampleId :

CL-02-051719

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 188     | 100 |       | 524874 |       |       |
| 94      | 9.7 |       | 8.4    | 12.6  |       |
| 80      | 9.7 |       | 9.2    | 13.8  |       |

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#71

Phenanthrene

Concen: 36.888 ng

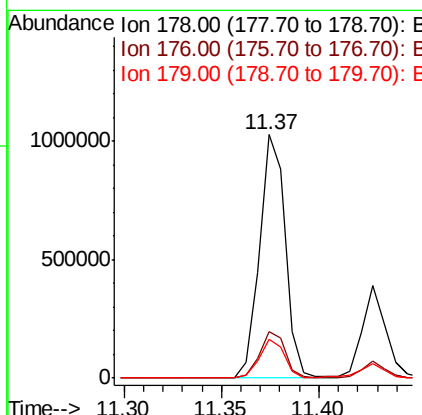
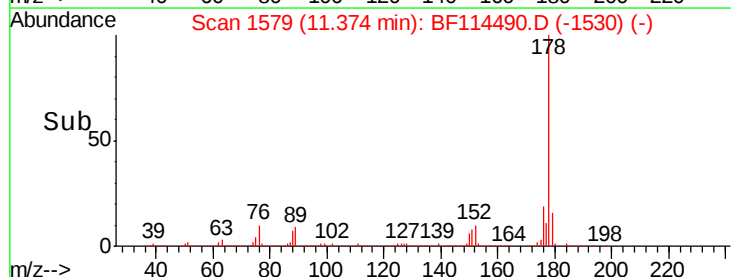
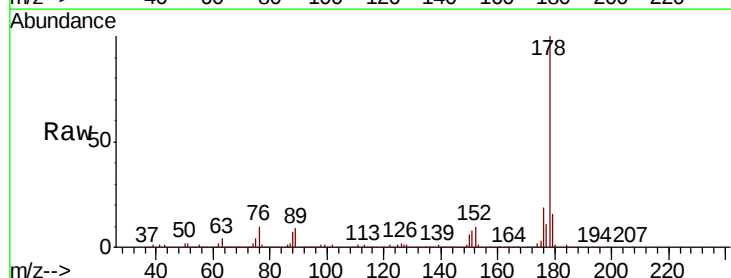
RT: 11.37 min Scan# 1579

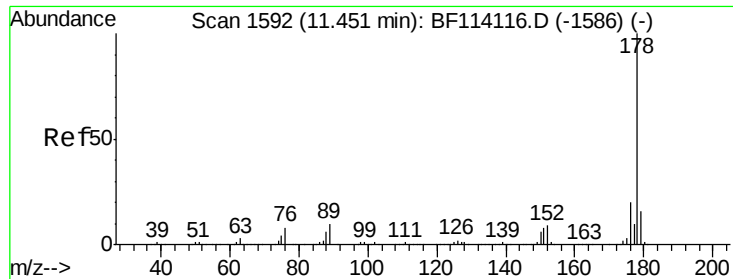
Delta R.T. -0.01 min

Lab File: BF114490.D

Acq: 22 May 2019 18:34

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 178     | 100  |       | 941959 |       |       |
| 176     | 18.9 |       | 16.4   | 24.6  |       |
| 179     | 15.8 |       | 13.2   | 19.8  |       |





#72

Anthracene

Concen: 12.421 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF114490.D

Acq: 22 May 2019 18:34

Instrument :

BNA\_F

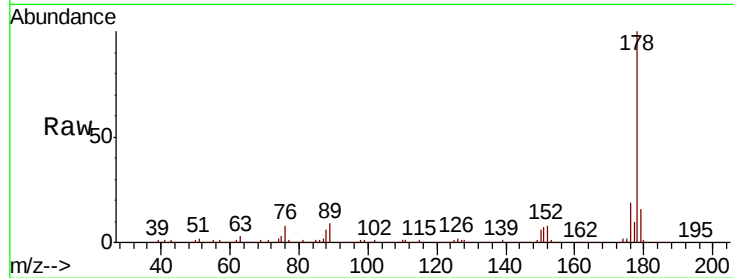
ClientSampleId :

CL-02-051719

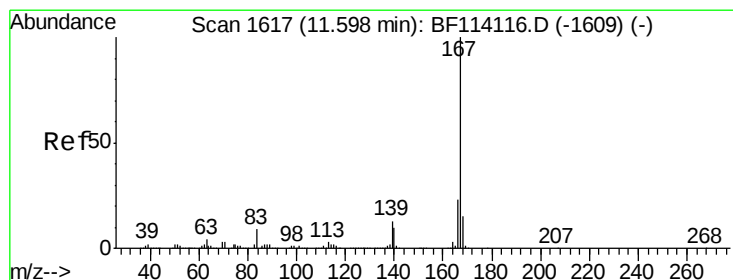
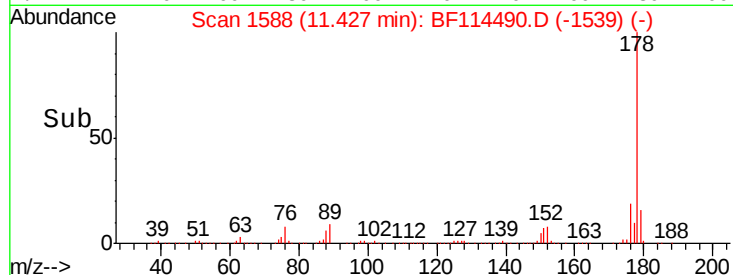
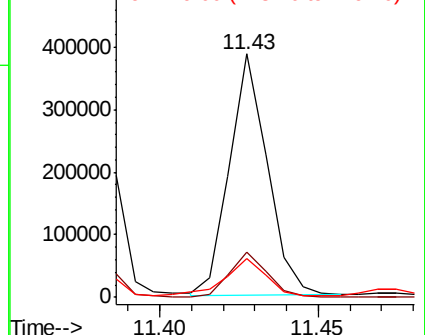
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 318573 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.7  | 15.8  | 23.8   |
| 179       | 16.0  | 13.0  | 19.4   |

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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: 4.123 ng

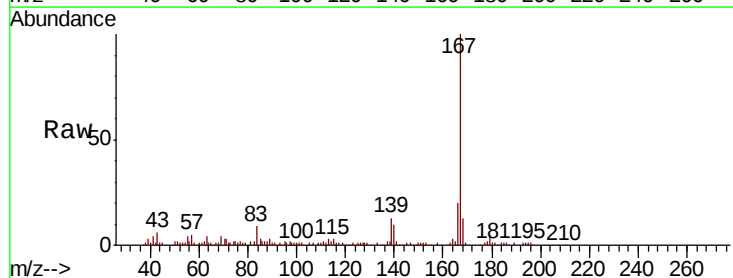
RT: 11.59 min Scan# 1615

Delta R.T. -0.01 min

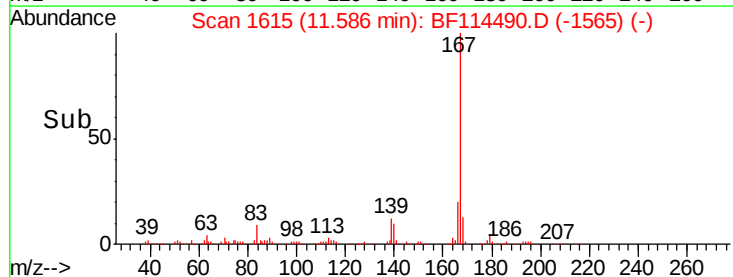
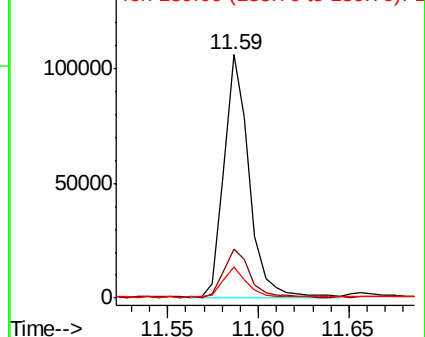
Lab File: BF114490.D

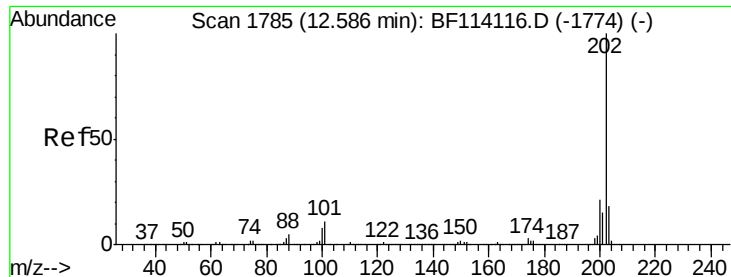
Acq: 22 May 2019 18:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 100829 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 20.1  | 18.2  | 27.2   |
| 139       | 12.9  | 10.6  | 16.0   |



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: 45.847 ng

RT: 12.57 min Scan# 1782

Delta R.T. -0.01 min

Lab File: BF114490.D

Acq: 22 May 2019 18:34

Instrument :

BNA\_F

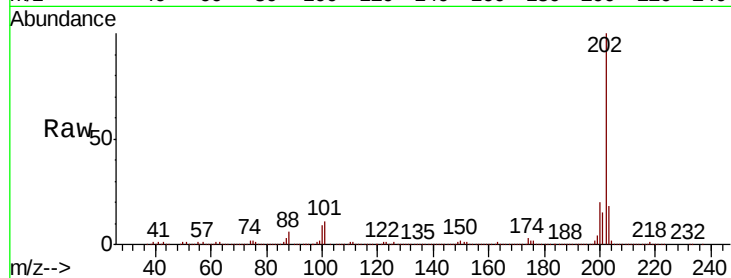
ClientSampleId :

CL-02-051719

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1260734 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 11.5  | 0.0   | 31.0    |
| 203       | 18.4  | 0.0   | 38.4    |

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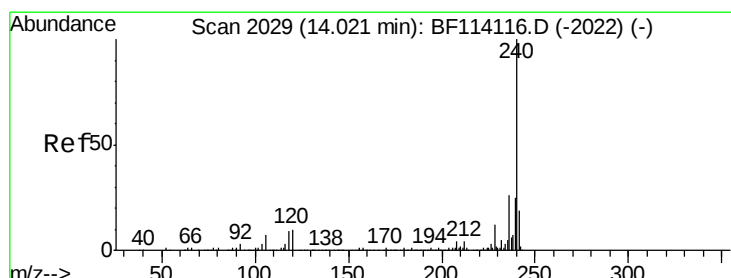
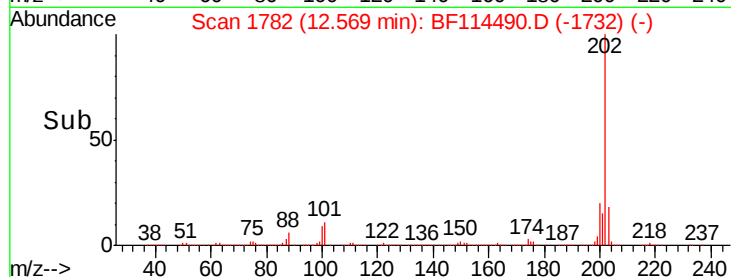
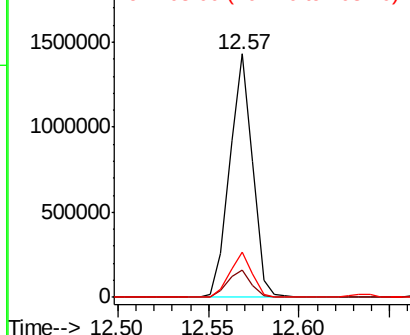


Abundance

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

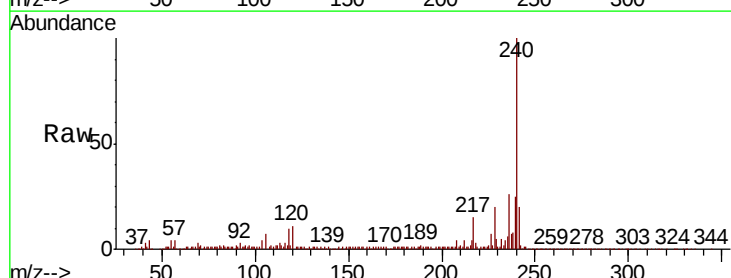
RT: 14.00 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BF114490.D

Acq: 22 May 2019 18:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 385580 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.6  | 8.3   | 12.5   |
| 236       | 26.5  | 20.8  | 31.2   |

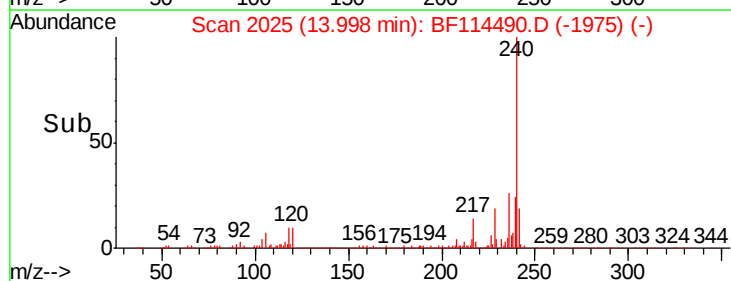
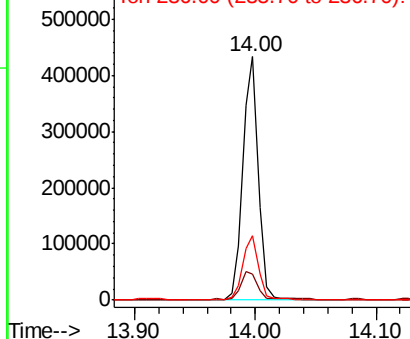


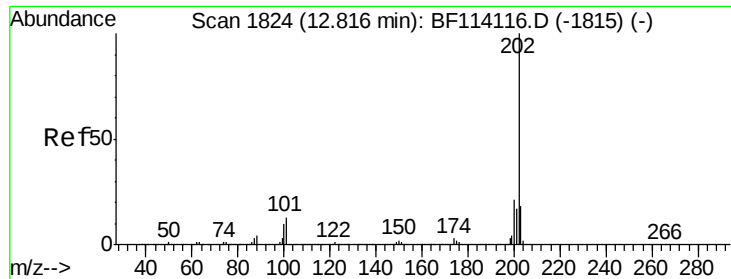
Abundance

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





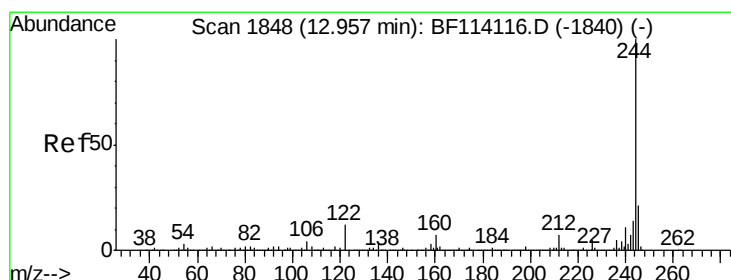
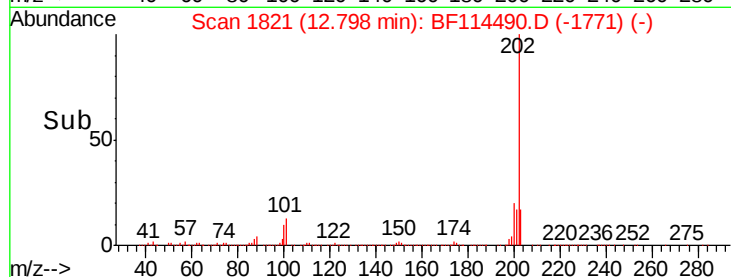
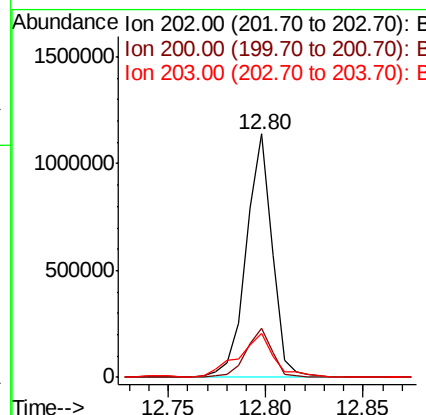
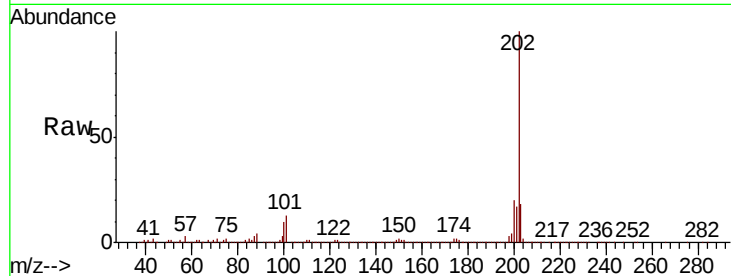
#78  
Pvrene  
Concen: 33.776 ng  
RT: 12.80 min Scan# 1821  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-051719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.3  | 16.9  | 25.3  |
| 203     | 17.8  | 14.5  | 21.7  |

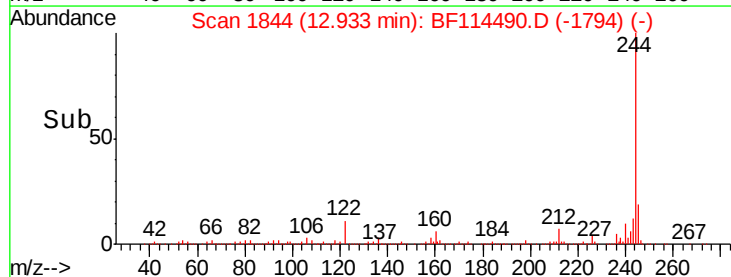
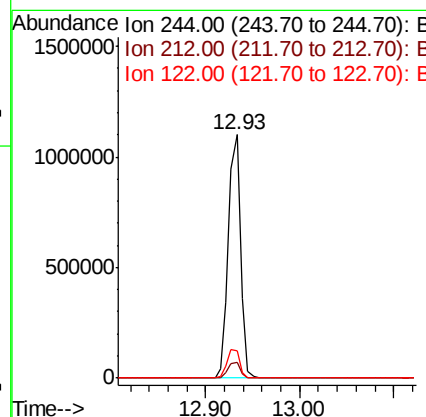
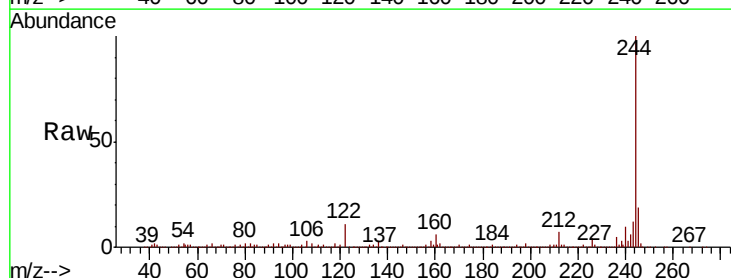
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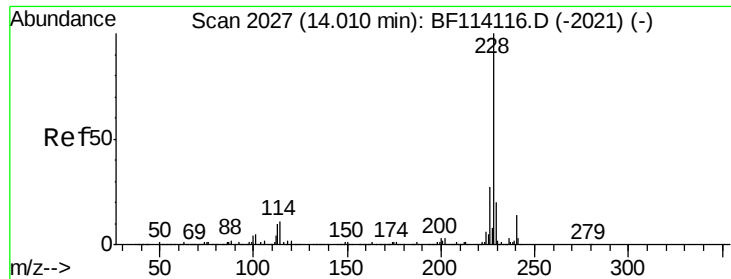
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#79  
Terphenyl-d14  
Concen: 53.727 ng  
RT: 12.93 min Scan# 1844  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 5.8   | 8.6   |
| 122     | 11.1  | 9.4   | 14.2  |





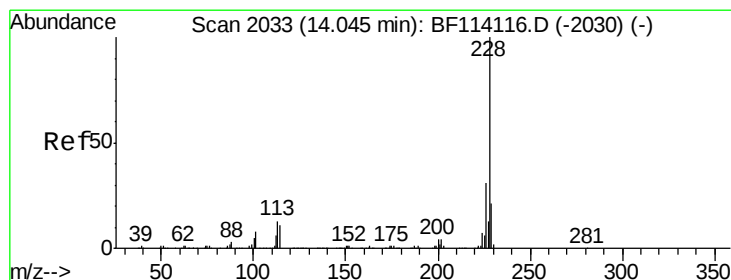
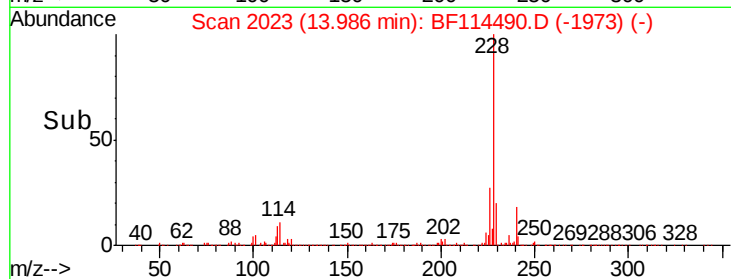
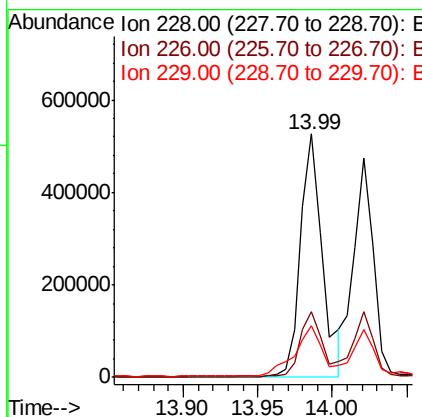
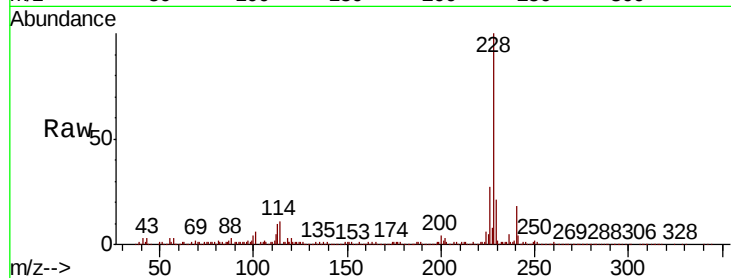
#81  
Benzo(a)anthracene  
Concen: 21.643 ng  
RT: 13.99 min Scan# 2023  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-051719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.0  | 22.2  | 33.2  |
| 229     | 21.2  | 16.4  | 24.6  |

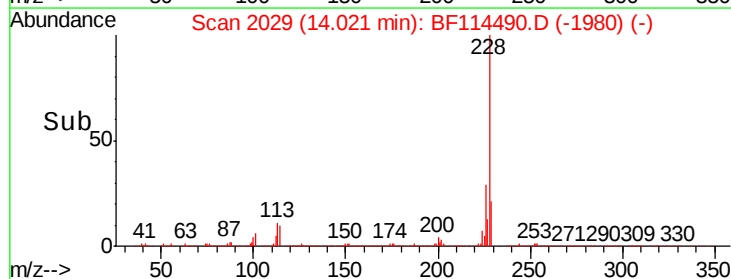
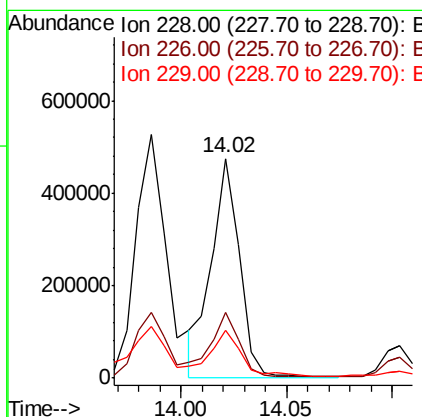
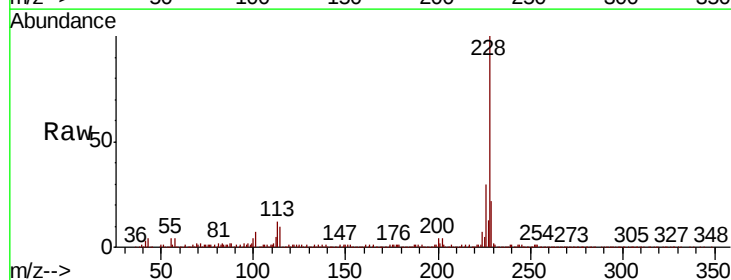
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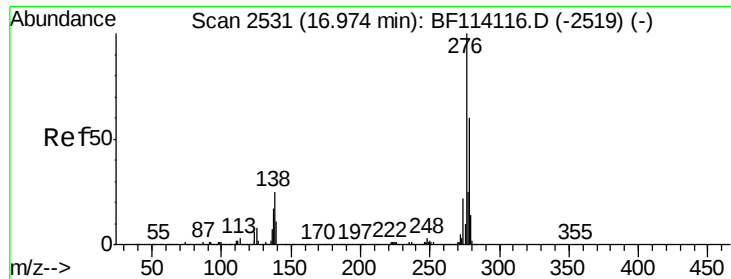
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#83  
Chrysene  
Concen: 18.090 ng  
RT: 14.02 min Scan# 2029  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 25.0  | 37.6  |
| 229     | 21.6  | 17.0  | 25.6  |





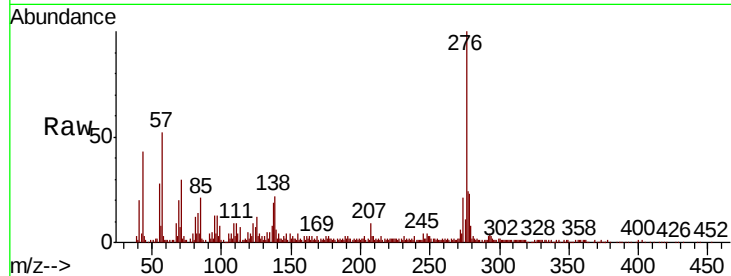
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 8.428 ng  
RT: 16.95 min Scan# 2527  
Delta R.T. 0.00 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-051719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.5  | 20.2  | 30.2  |
| 277     | 23.6  | 20.0  | 30.0  |

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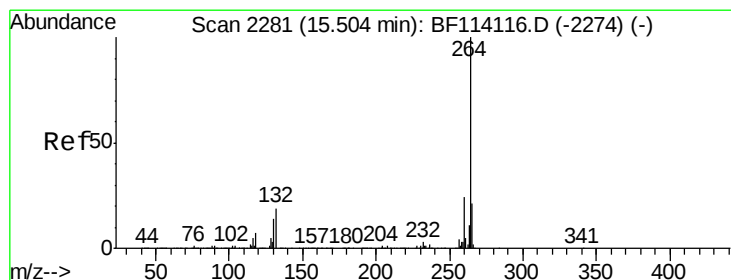
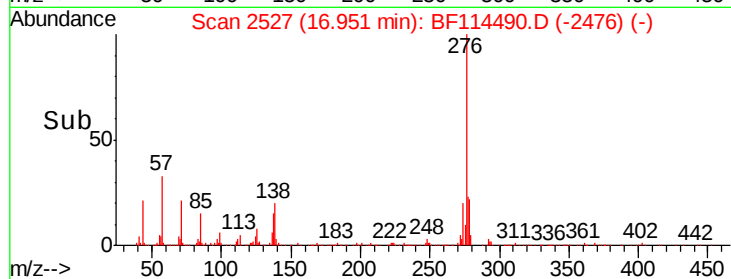
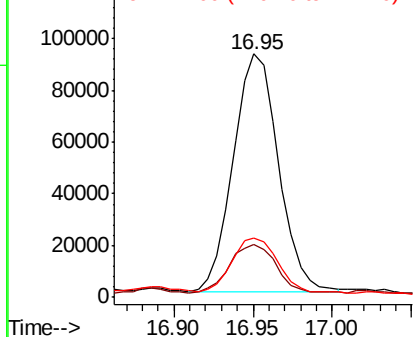


Abundance

Ion 276.00 (275.70 to 276.70): E

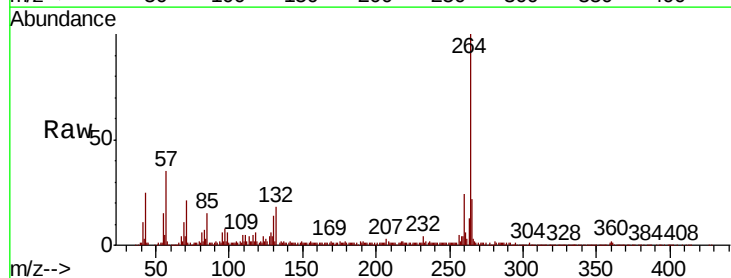
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2275  
Delta R.T. 0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 19.4  | 29.0  |
| 265     | 22.3  | 16.9  | 25.3  |

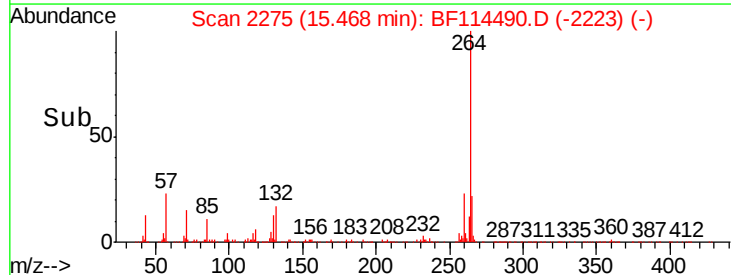
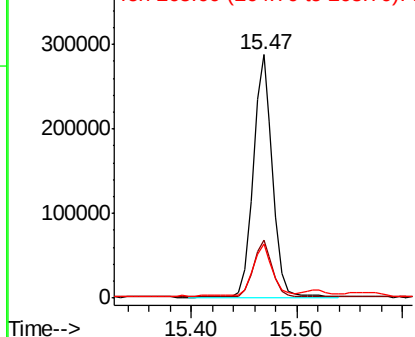


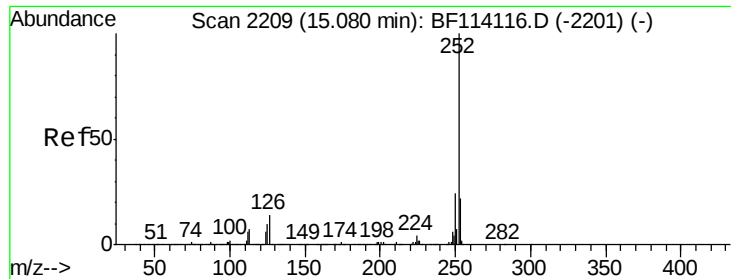
Abundance

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





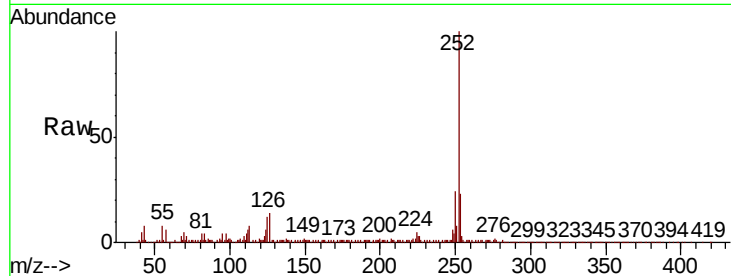
#88  
Benzo(b)fluoranthene  
Concen: 24.046 ng m  
RT: 15.04 min Scan# 2202  
Delta R.T. 0.00 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

Instrument :  
BNA\_F  
ClientSampled :  
CL-02-051719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.8  | 26.8  |
| 125     | 12.1  | 8.3   | 12.5  |

Manual Integrations  
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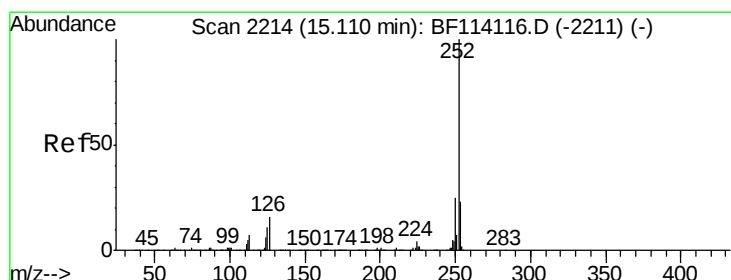
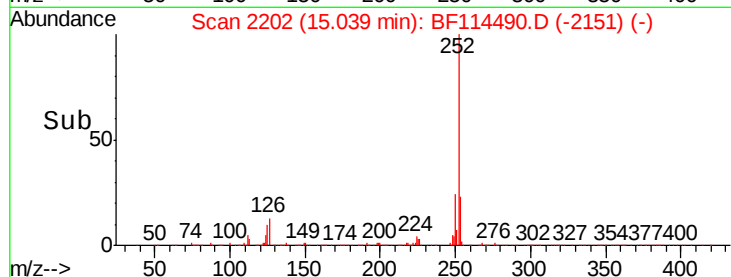
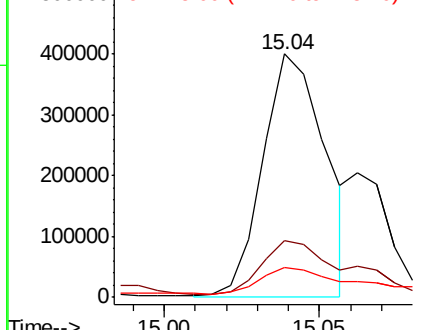


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89  
Benzo(k)fluoranthene  
Concen: 8.611 ng m  
RT: 15.06 min Scan# 2206  
Delta R.T. -0.01 min  
Lab File: BF114490.D  
Acq: 22 May 2019 18:34

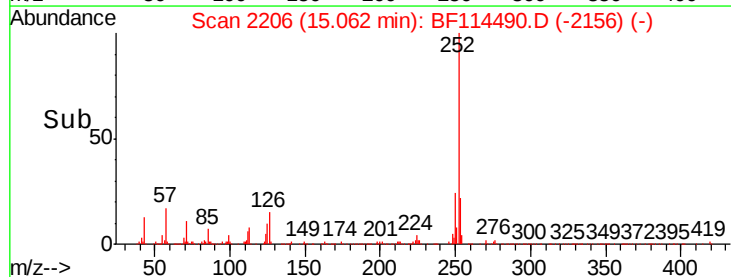
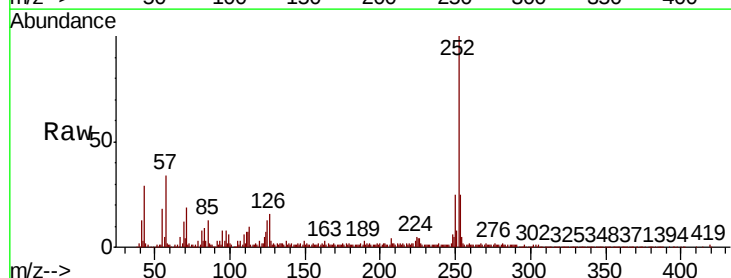
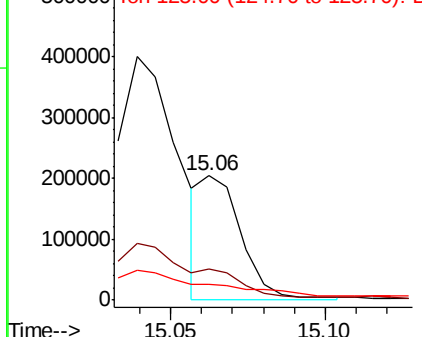
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 18.2  | 27.2  |
| 125     | 12.8  | 8.6   | 13.0  |

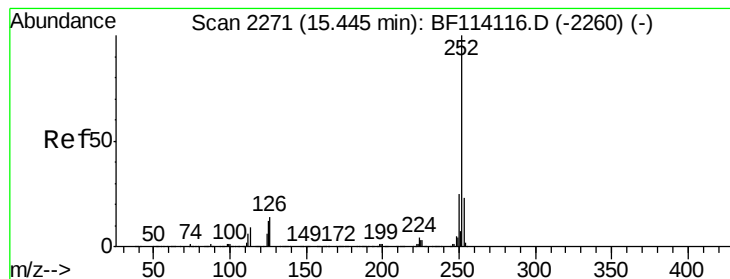
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 18.409 ng

RT: 15.40 min Scan# 2264

Delta R.T. 0.00 min

Lab File: BF114490.D

Acq: 22 May 2019 18:34

Instrument :

BNA\_F

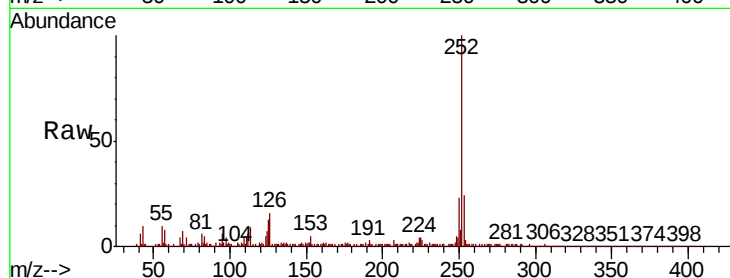
ClientSampleId :

CL-02-051719

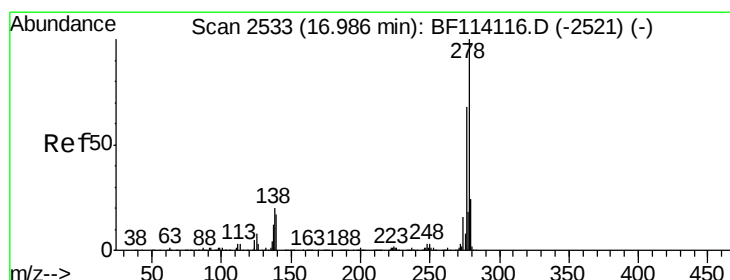
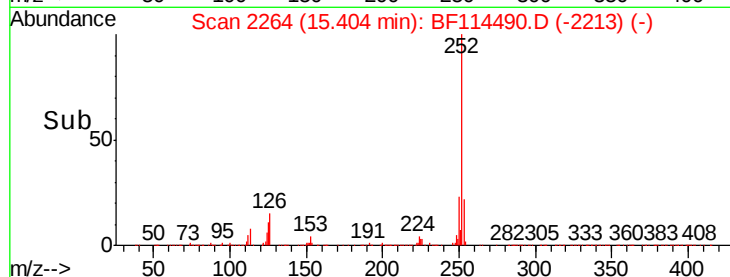
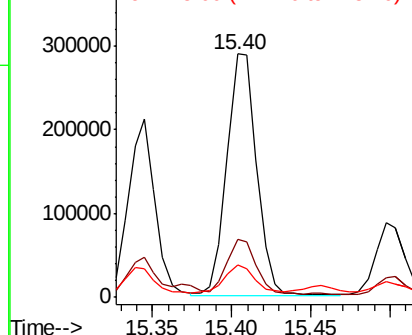
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 377978 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.9  | 18.1  | 27.1   |
| 125       | 13.1  | 9.5   | 14.3   |

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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 2.792 ng

RT: 16.95 min Scan# 2527

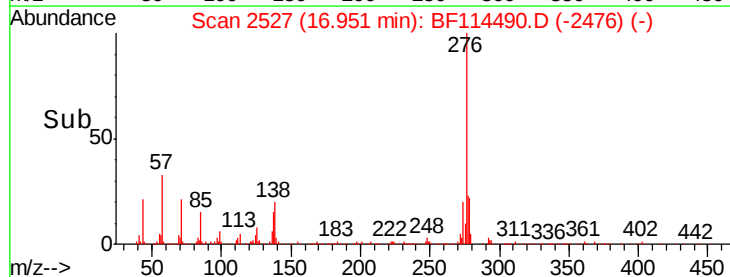
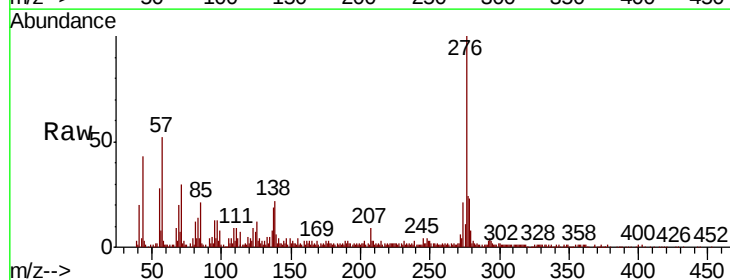
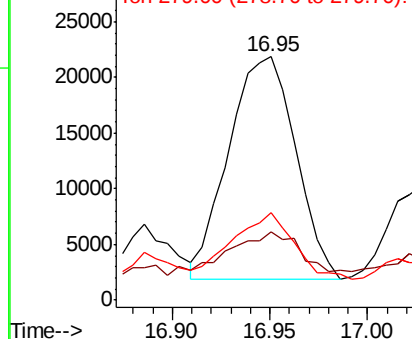
Delta R.T. 0.00 min

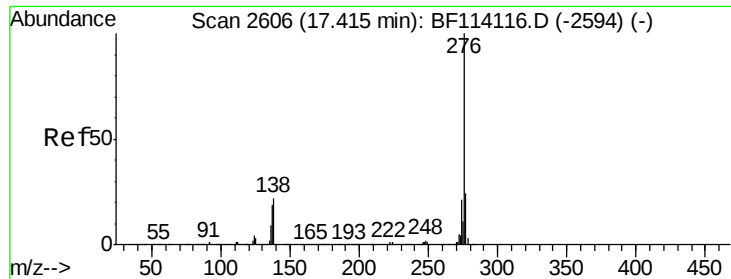
Lab File: BF114490.D

Acq: 22 May 2019 18:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 47645 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 27.8  | 13.5  | 20.3# |
| 279       | 36.0  | 19.0  | 28.6# |

Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#92  
 Benzo(a,h,i)perylene  
 Concen: 9.935 ng  
 RT: 17.40 min Scan# 2603  
 Delta R.T. 0.01 min  
 Lab File: BF114490.D  
 Acq: 22 May 2019 18:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-051719

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 276     | 100  |       |      |       |       |
| 277     | 25.4 | 19.0  | 28.4 |       |       |
| 138     | 21.3 | 17.8  | 26.6 |       |       |

Manual Integrations  
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