

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030620\  
 Data File : BF119271.D  
 Acq On : 7 Mar 2020 1:33  
 Operator : CG/JU  
 Sample : L1753-01 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-030520

Manual Integrations  
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Quant Time: Mar 07 05:19:43 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 06 23:38:46 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 97784    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.00  | 136  | 372599   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.76  | 164  | 202062   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.24 | 188  | 335629   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.89 | 240  | 272795   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.32 | 264  | 275937   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.35  | 112  | 191416   | 32.71  | ng    | 0.00     |
| 7) Phenol-d6                | 6.38  | 99   | 246213   | 34.60  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 157481   | 22.32  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 70464    | 26.66  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.08  | 172  | 334349   | 24.38  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.82 | 244  | 364495   | 23.00  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 58) Fluorene                | 10.30 | 166  | 29497    | 2.219  | ng    | 98       |
| 71) Phenanthrene            | 11.27 | 178  | 218808   | 11.954 | ng    | 98       |
| 72) Anthracene              | 11.32 | 178  | 87074    | 4.761  | ng    | 98       |
| 75) Fluoranthene            | 12.46 | 202  | 392444   | 20.199 | ng    | 99       |
| 78) Pyrene                  | 12.69 | 202  | 343990   | 15.704 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.87 | 228  | 195334   | 10.509 | ng    | 99       |
| 83) Chrysene                | 13.91 | 228  | 155630   | 8.403  | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.73 | 276  | 81380    | 4.538  | ng    | # 91     |
| 88) Benzo(b)fluoranthene    | 14.91 | 252  | 252351m  | 13.874 | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.93 | 252  | 59460m   | 3.528  | ng    |          |
| 90) Benzo(a)pyrene          | 15.26 | 252  | 155462   | 9.471  | ng    | 99       |
| 92) Benzo(a,h,i)perylene    | 17.15 | 276  | 68369    | 4.791  | ng    | 92       |

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

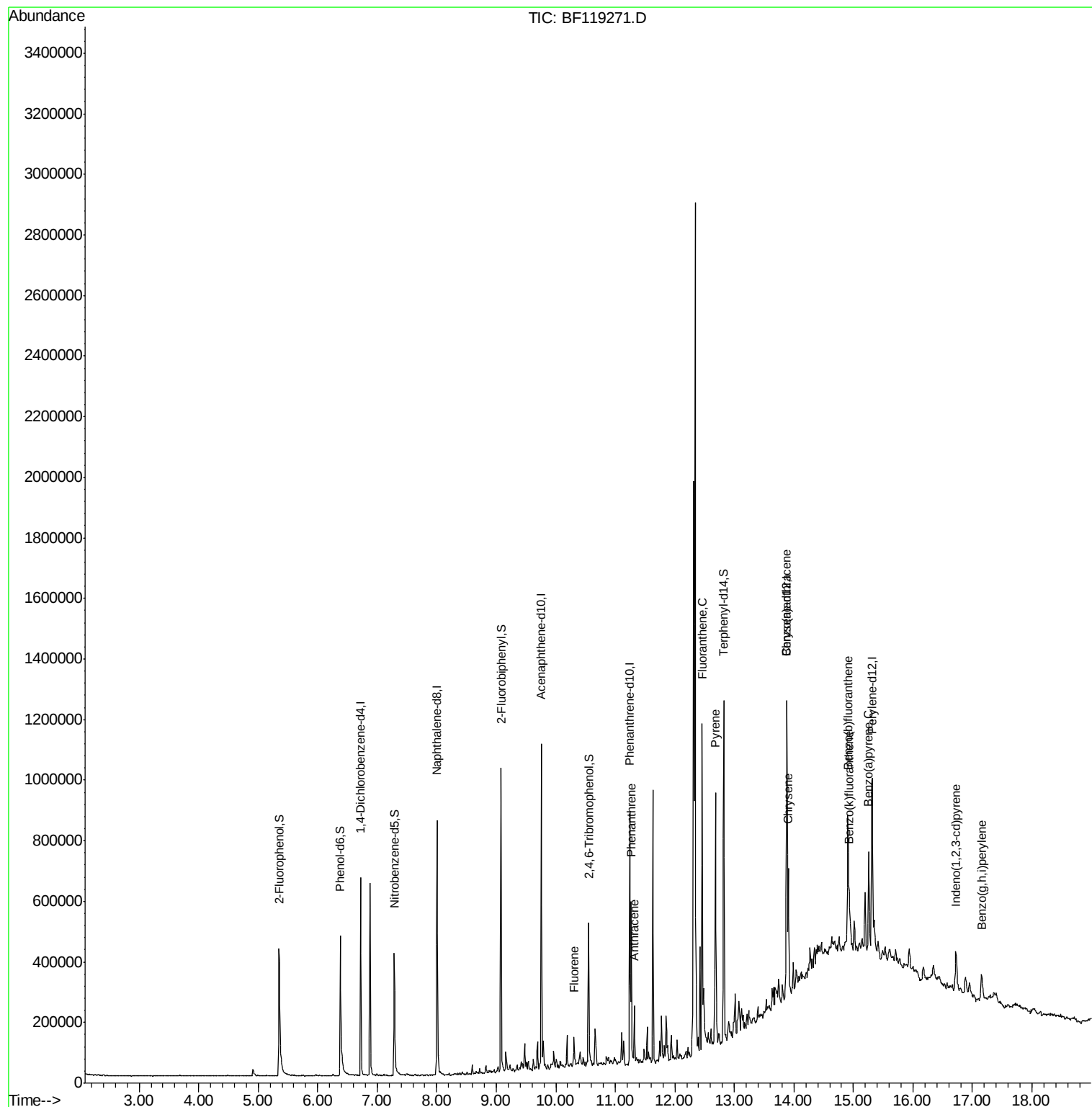
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030620\  
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Sample : L1753-01 2X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

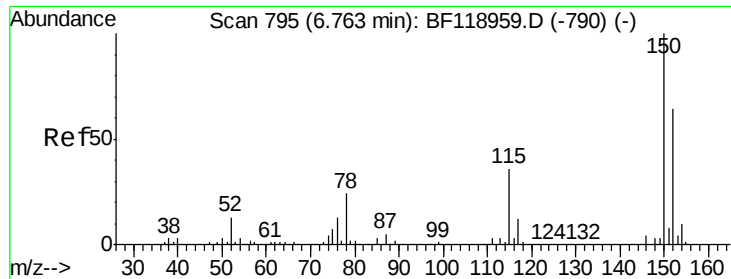
Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-030520

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
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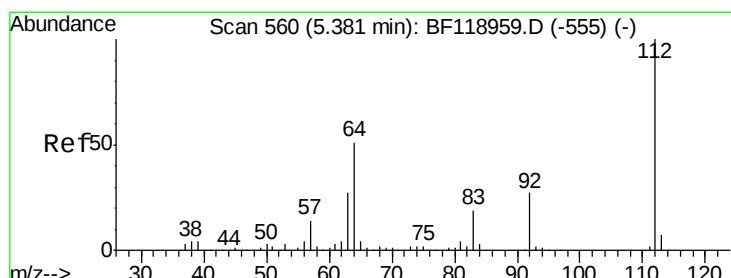
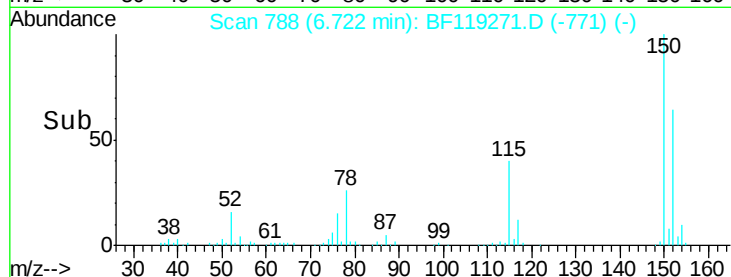
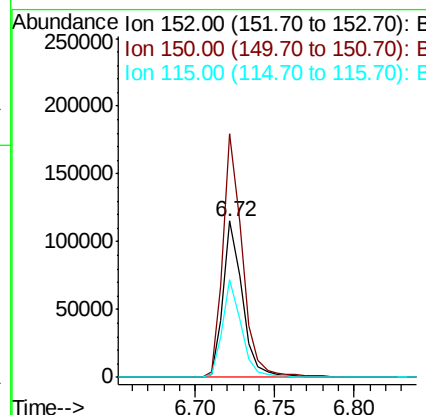
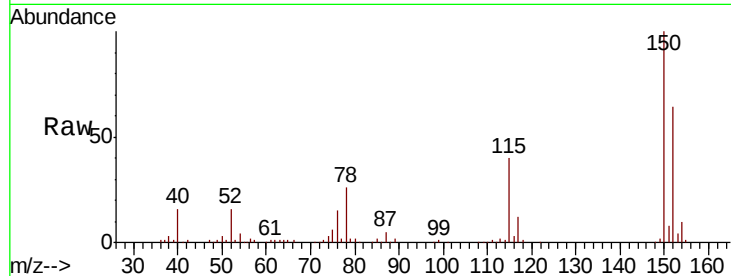
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.72 min Scan# 788  
 Delta R.T. 0.00 min  
 Lab File: BF119271.D  
 Acq: 7 Mar 2020 1:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-030520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.7 | 123.0 | 184.6 |
| 115     | 62.1  | 49.5  | 74.3  |

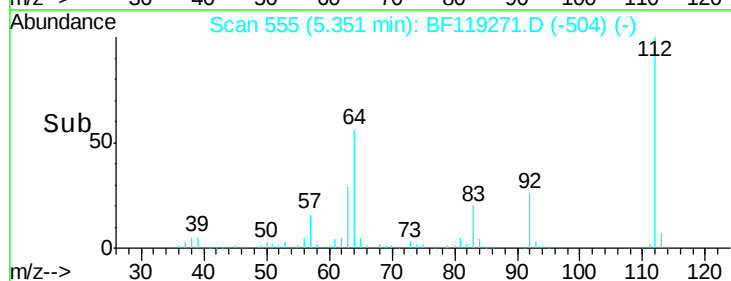
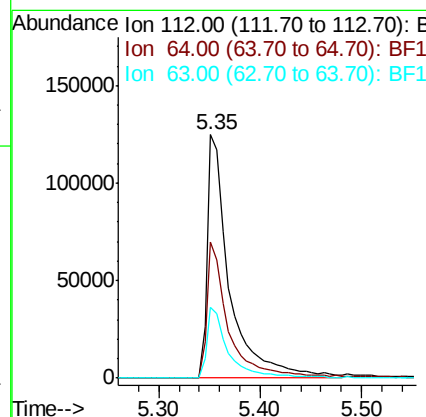
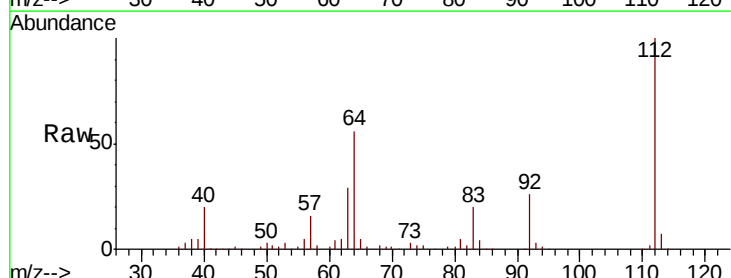
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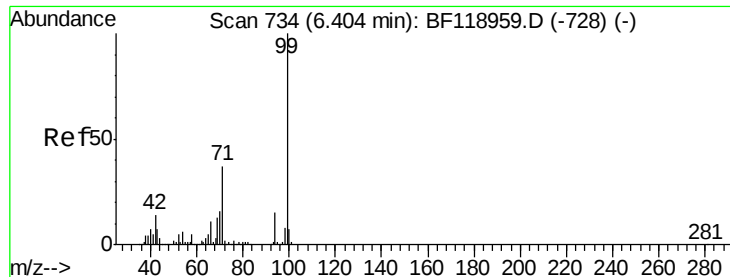
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#5  
 2-Fluorophenol  
 Concen: 32.714 ng  
 RT: 5.35 min Scan# 555  
 Delta R.T. 0.00 min  
 Lab File: BF119271.D  
 Acq: 7 Mar 2020 1:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.7  | 45.0  | 67.4  |
| 63      | 29.2  | 24.2  | 36.4  |





#7

Phenol-d6

Concen: 34.599 ng

RT: 6.38 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF119271.D

Acq: 7 Mar 2020 1:33

Instrument :

BNA\_F

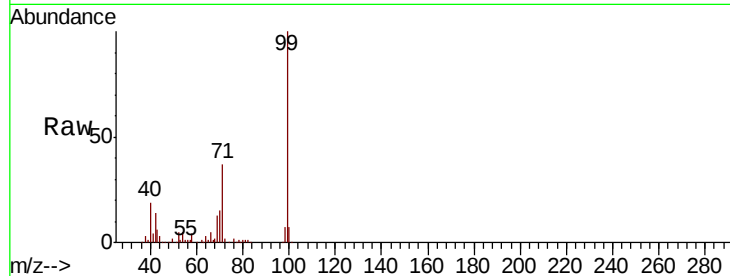
ClientSampleId :

CL-01-030520

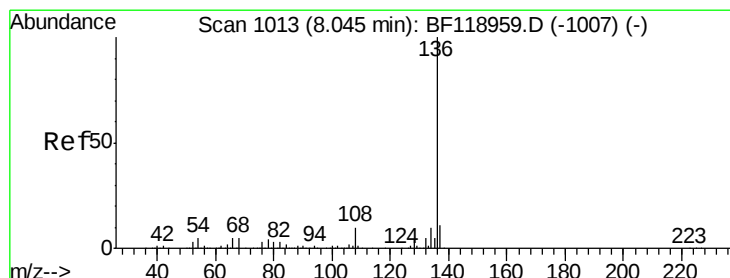
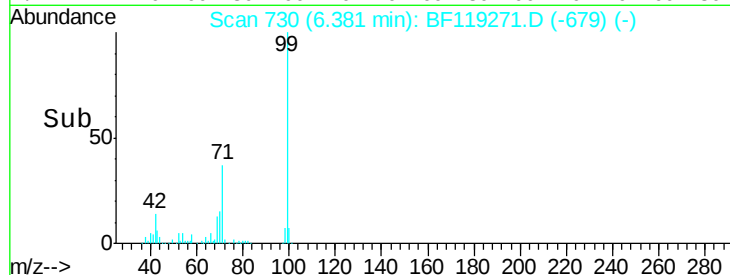
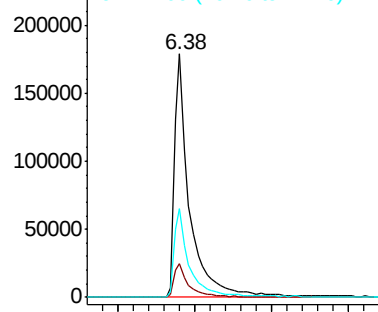
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 246213 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 13.6  | 12.6  | 18.8   |
| 71        | 36.6  | 31.0  | 46.4   |

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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: 8.00 min Scan# 1006

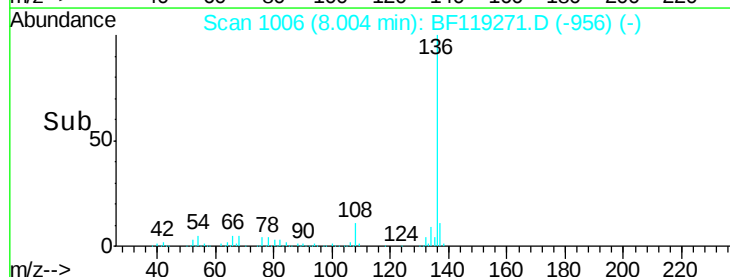
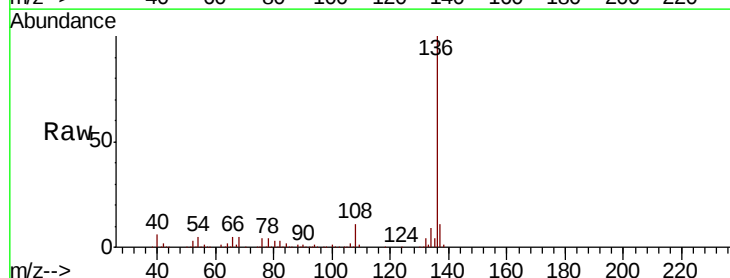
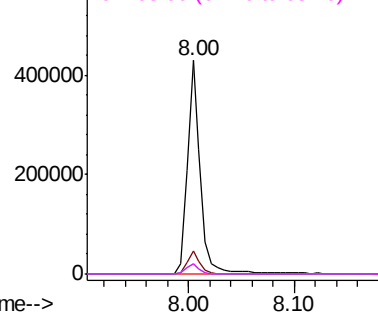
Delta R.T. -0.01 min

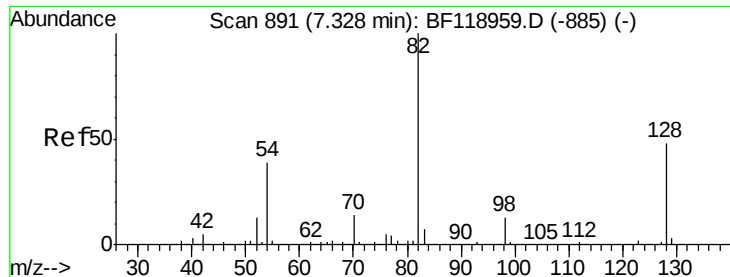
Lab File: BF119271.D

Acq: 7 Mar 2020 1:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 372599 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 8.8   | 13.2   |
| 54        | 5.0   | 3.8   | 5.6    |
| 68        | 5.0   | 3.9   | 5.9    |

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





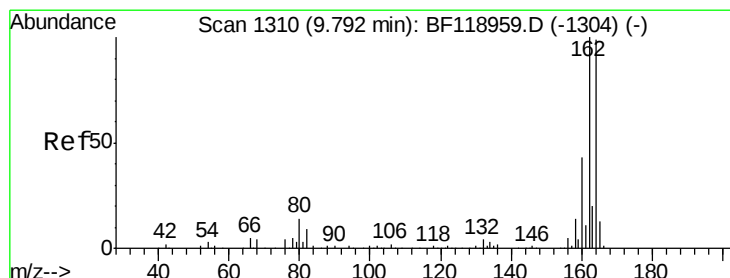
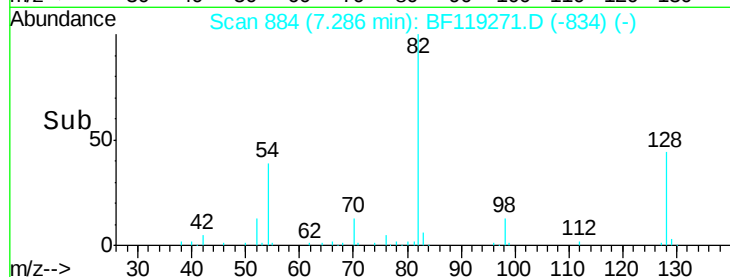
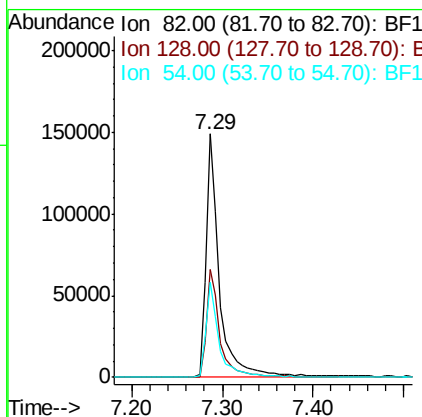
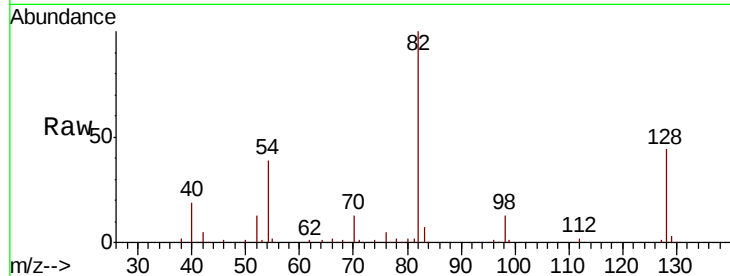
#23  
Nitrobenzene-d5  
Concen: 22.316 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-030520

| Tot Ion   | 82    | Resp  | 157481 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 44.3  | 37.9  | 56.9   |
| 54        | 38.9  | 33.4  | 50.2   |

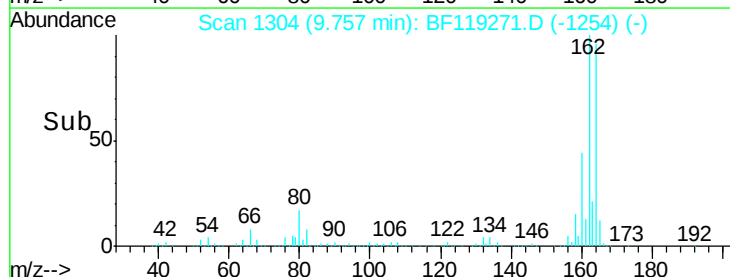
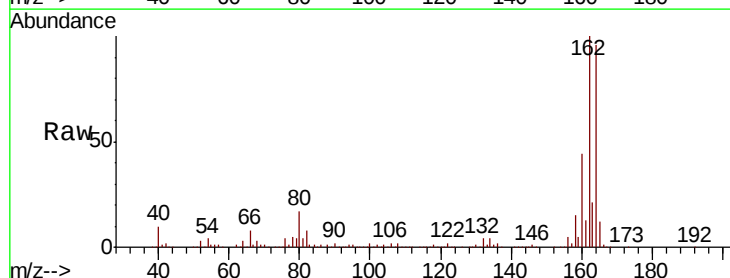
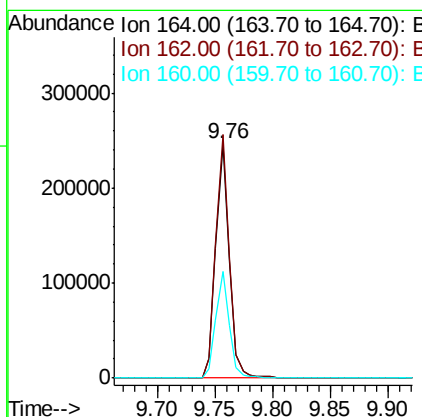
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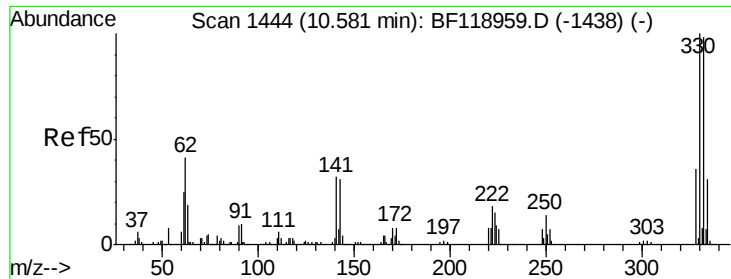
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.01 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

| Tgt Ion   | 164   | Resp  | 202062 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 104.2 | 81.8  | 122.8  |
| 160       | 45.5  | 36.0  | 54.0   |





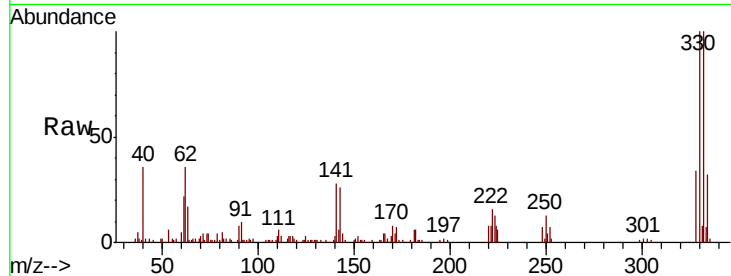
#42  
 2,4,6-Tribromophenol  
 Concen: 26.657 ng  
 RT: 10.55 min Scan# 1439  
 Delta R.T. -0.01 min  
 Lab File: BF119271.D  
 Acq: 7 Mar 2020 1:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-030520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 99.4  | 76.0  | 114.0 |
| 141     | 35.5  | 22.9  | 34.3  |

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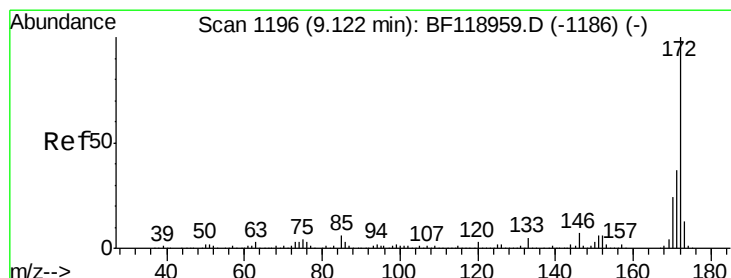
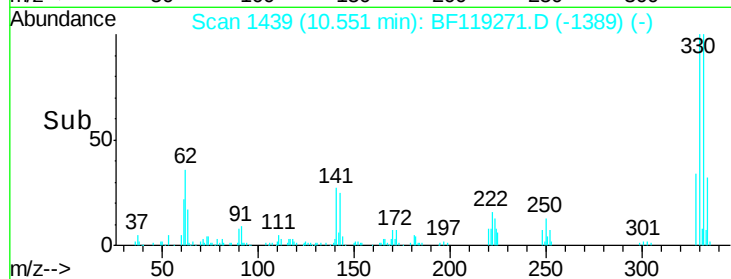
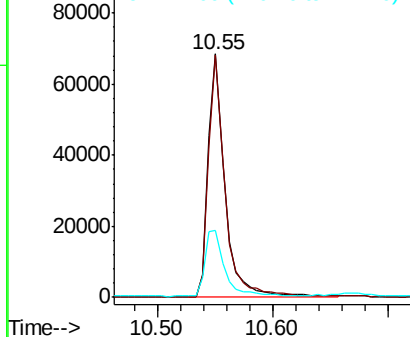


Abundance

Ion 329.80 (329.50 to 330.50): E

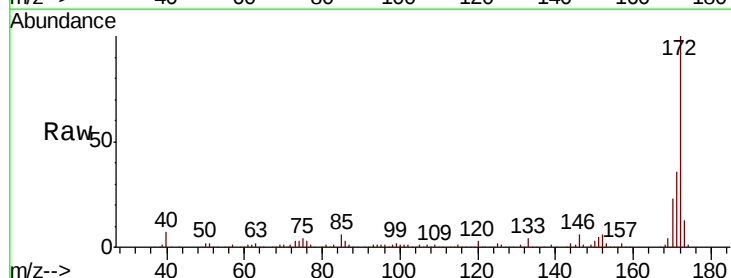
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 24.376 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF119271.D  
 Acq: 7 Mar 2020 1:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 30.6  | 45.8  |
| 170     | 23.2  | 20.2  | 30.2  |

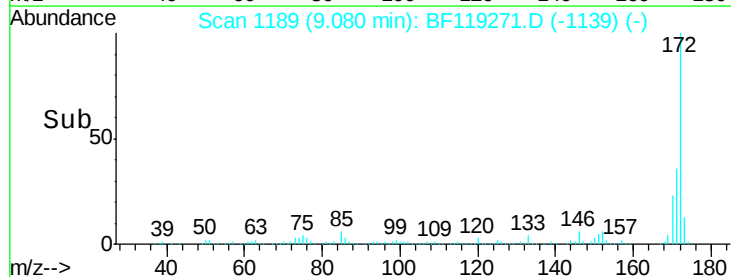
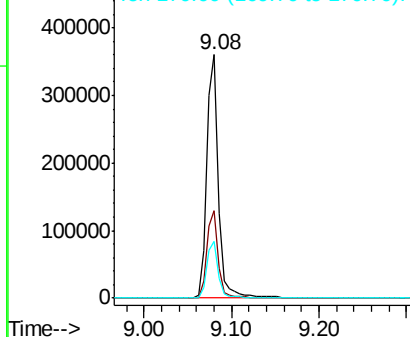


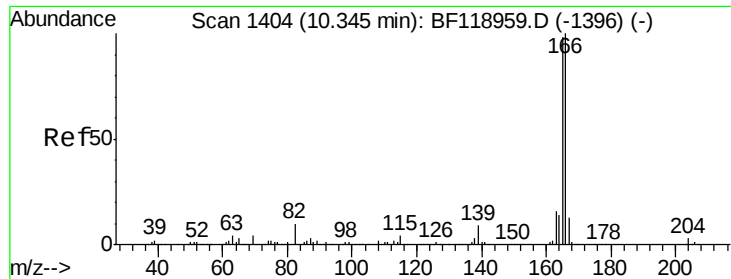
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





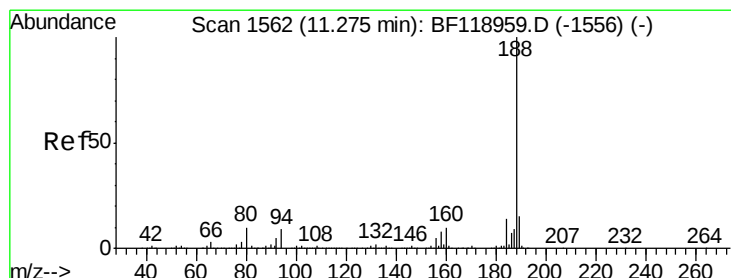
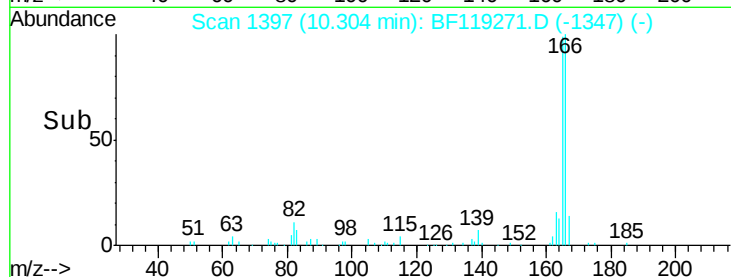
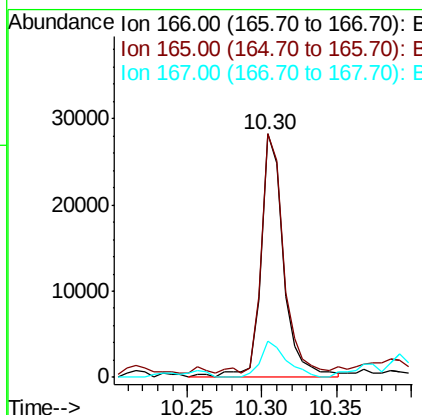
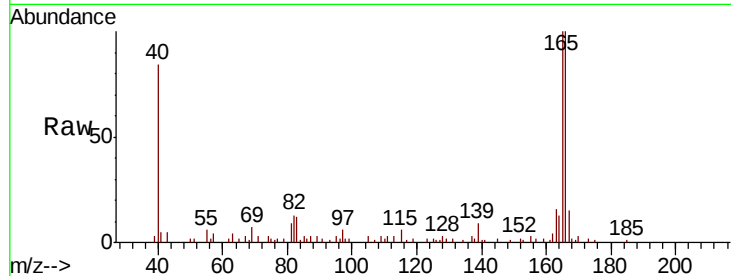
#58  
 Fluorene  
 Concen: 2.219 ng  
 RT: 10.30 min Scan# 1397  
 Delta R.T. -0.01 min  
 Lab File: BF119271.D  
 Acq: 7 Mar 2020 1:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-030520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 100.1 | 78.5  | 117.7 |
| 167     | 14.9  | 11.0  | 16.4  |

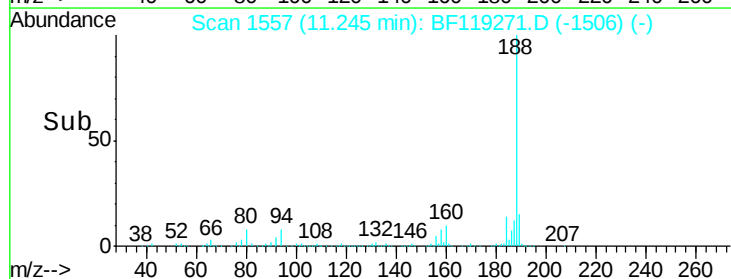
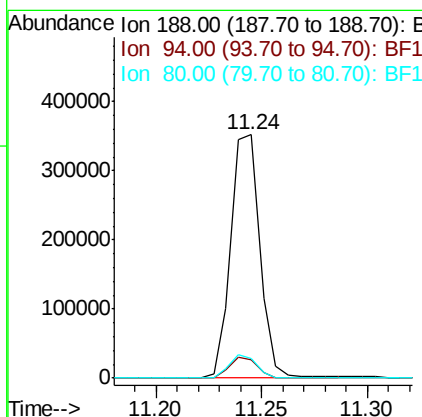
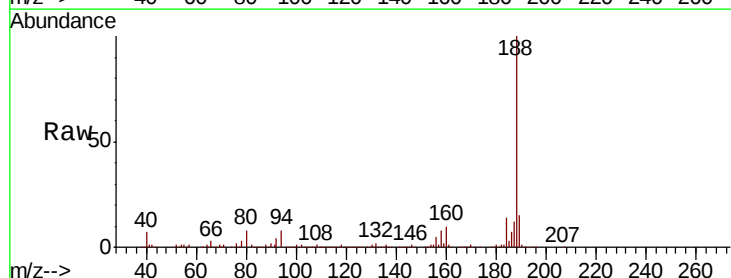
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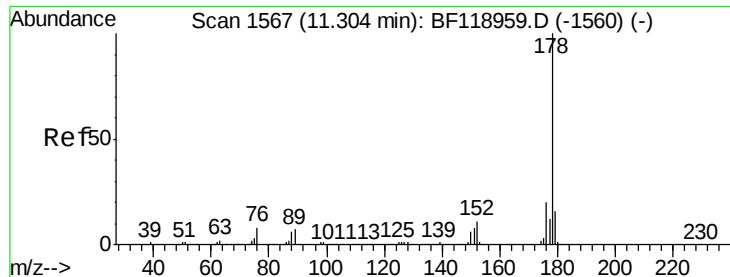
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#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.24 min Scan# 1557  
 Delta R.T. 0.00 min  
 Lab File: BF119271.D  
 Acq: 7 Mar 2020 1:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.7   | 7.1   | 10.7  |
| 80      | 7.8   | 7.8   | 11.8  |





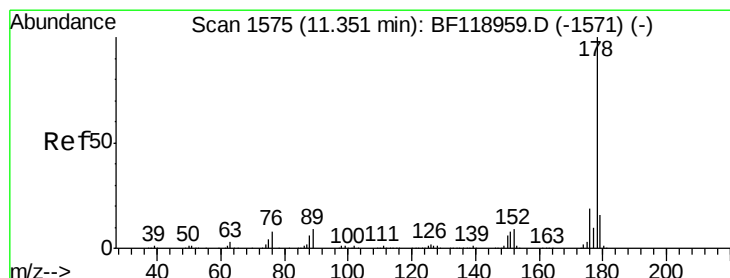
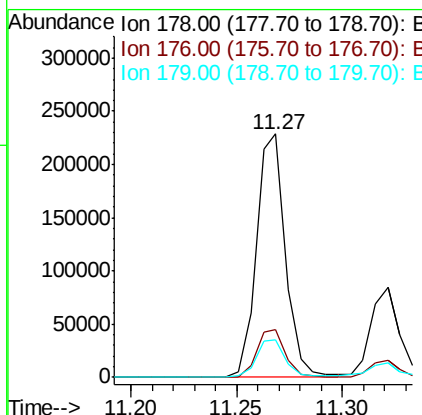
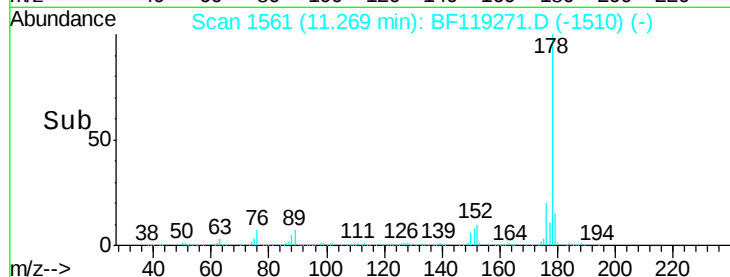
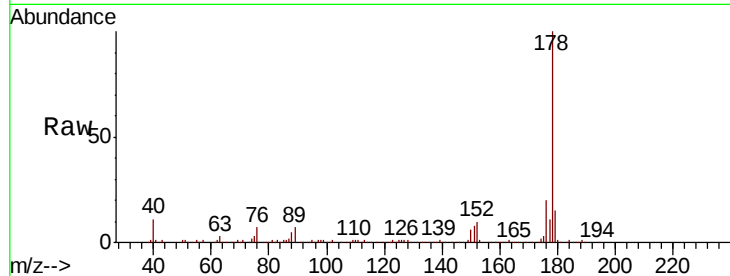
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Phenanthrene  
Concen: 11.954 ng  
RT: 11.27 min Scan# 1561  
Delta R.T. 0.00 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-030520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 16.5  | 24.7  |
| 179     | 15.3  | 13.0  | 19.6  |

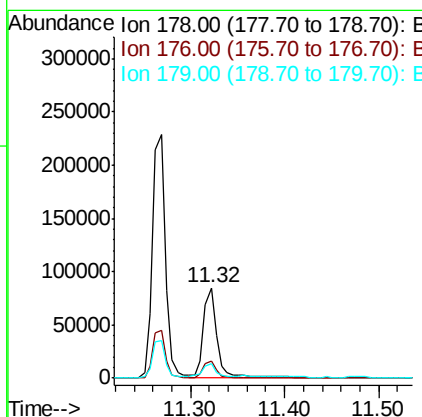
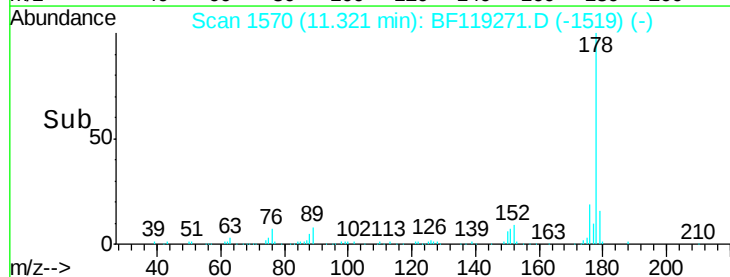
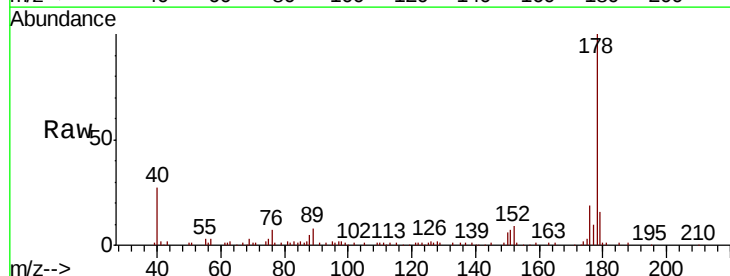
Manual Integrations  
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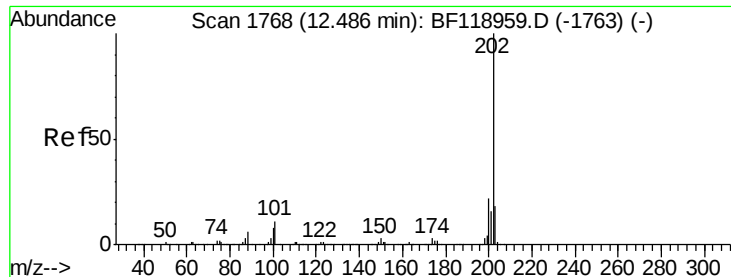
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3/9/2020 3:09:38 PM



#72  
Anthracene  
Concen: 4.761 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. 0.00 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 16.0  | 24.0  |
| 179     | 15.6  | 13.1  | 19.7  |





#75

Fluoranthene

Concen: 20.199 ng

RT: 12.46 min Scan# 1763

Delta R.T. 0.00 min

Lab File: BF119271.D

Acq: 7 Mar 2020 1:33

Instrument :

BNA\_F

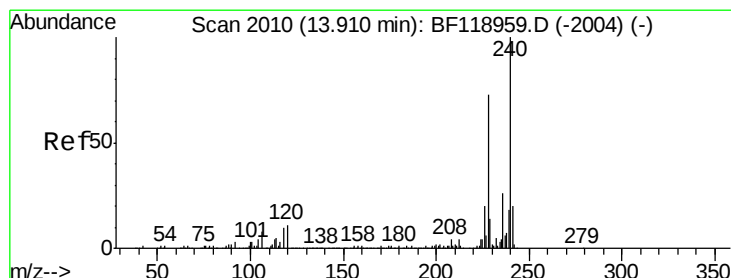
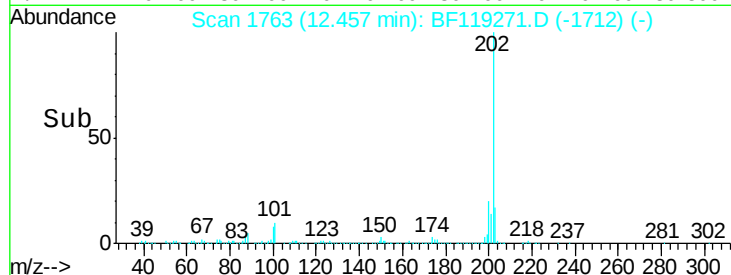
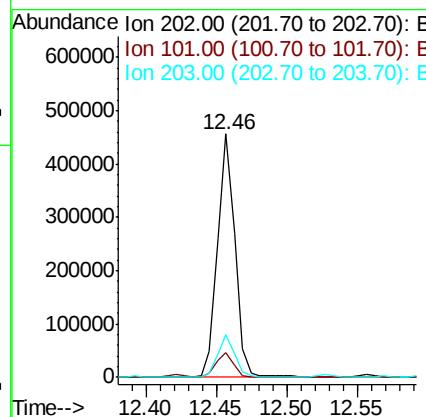
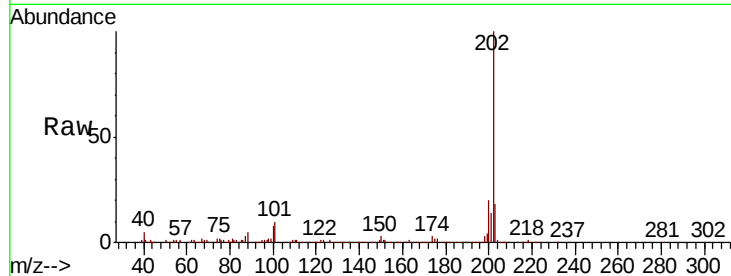
ClientSampleId :

CL-01-030520

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 392444 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.2  | 0.0   | 30.3   |
| 203       | 17.6  | 0.0   | 38.4   |

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#76

Chrysene-d12

Concen: 20.000 ng

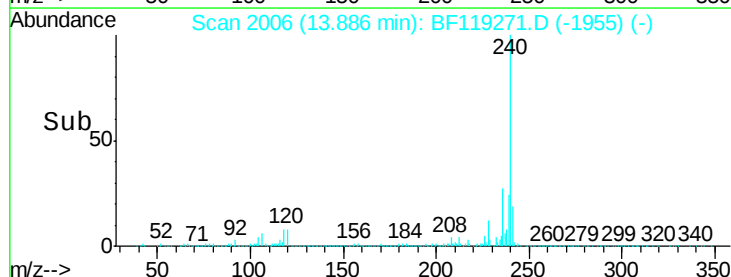
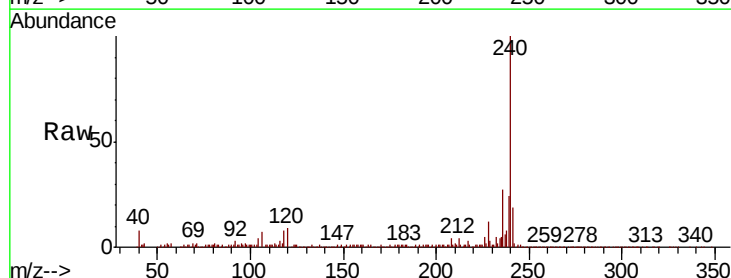
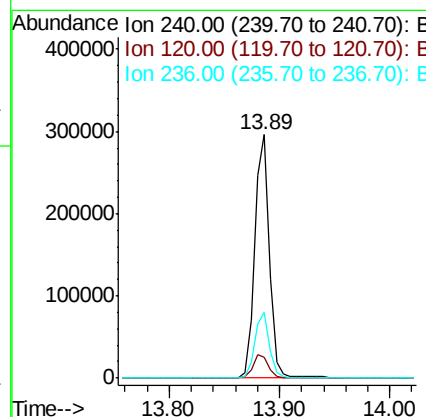
RT: 13.89 min Scan# 2006

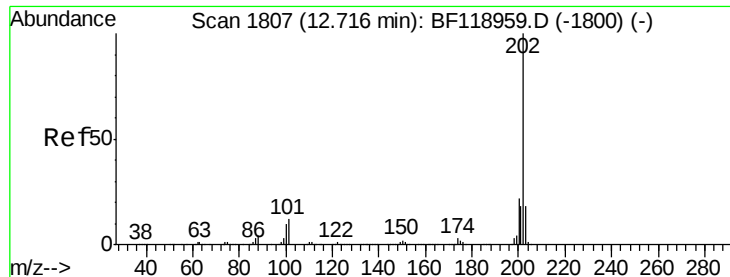
Delta R.T. 0.00 min

Lab File: BF119271.D

Acq: 7 Mar 2020 1:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 272795 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 8.7   | 8.4   | 12.6   |
| 236       | 27.2  | 21.0  | 31.4   |





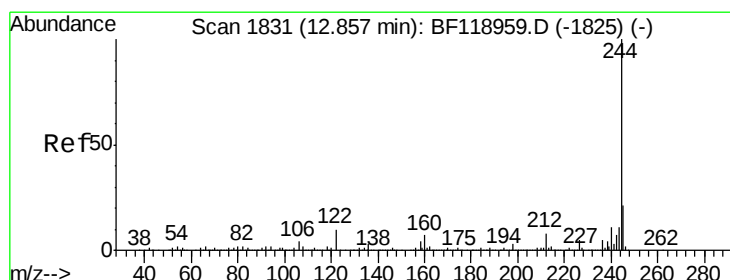
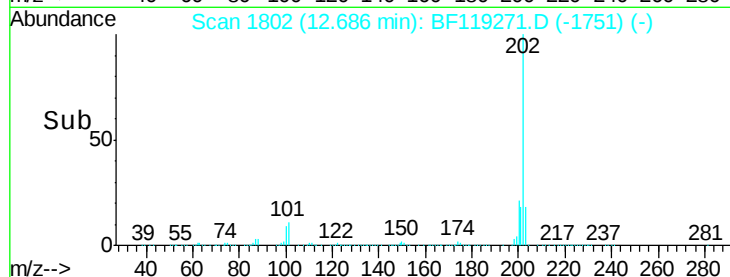
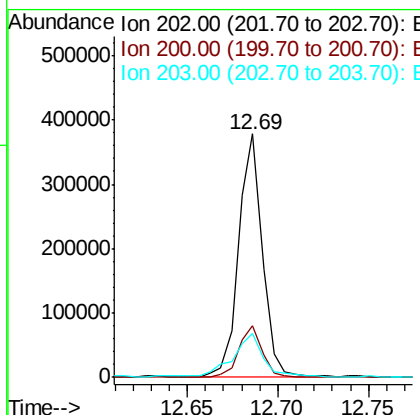
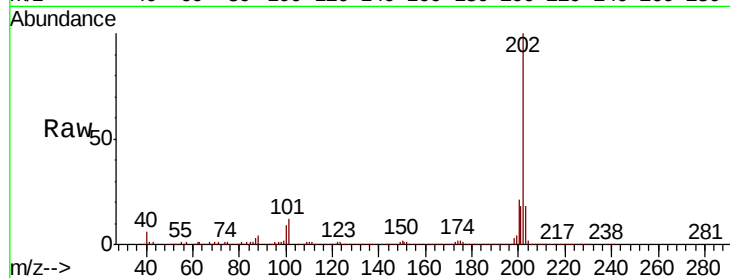
#78  
Pvrene  
Concen: 15.704 ng  
RT: 12.69 min Scan# 1802  
Delta R.T. 0.00 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-030520

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 21.1  | 18.0       | 27.0  |
| 203     | 18.0  | 14.6       | 22.0  |

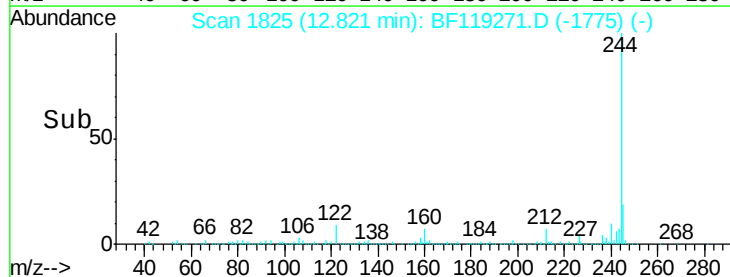
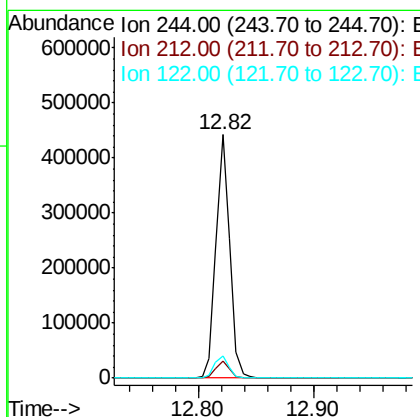
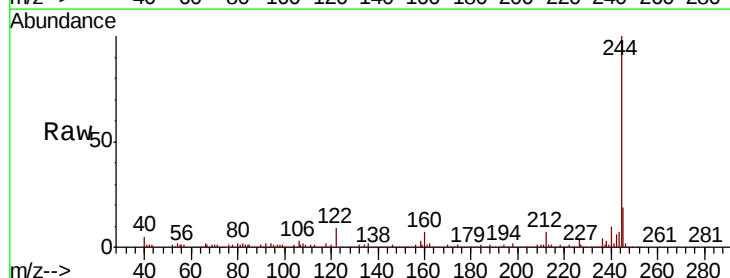
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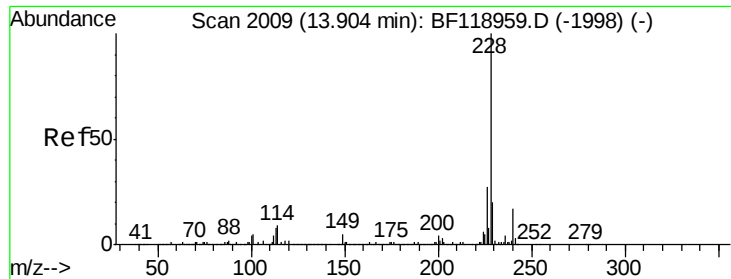
mohammad  
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#79  
Terphenyl-d14  
Concen: 23.004 ng  
RT: 12.82 min Scan# 1825  
Delta R.T. -0.01 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.8   | 6.6        | 10.0  |
| 122     | 8.9   | 8.2        | 12.2  |





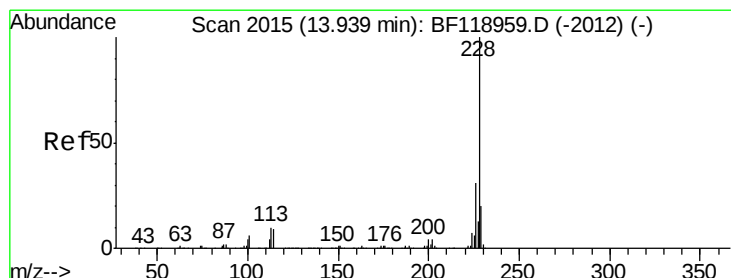
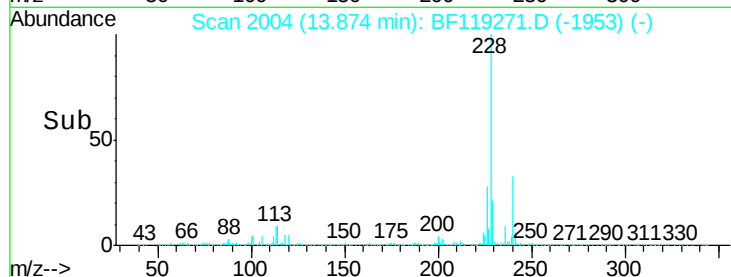
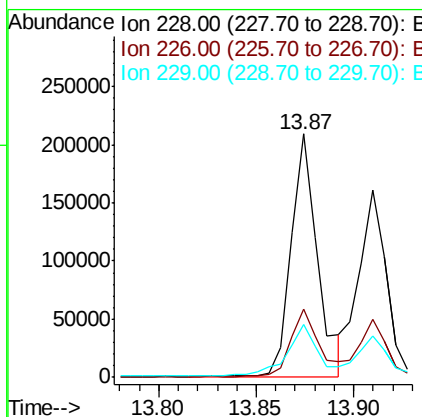
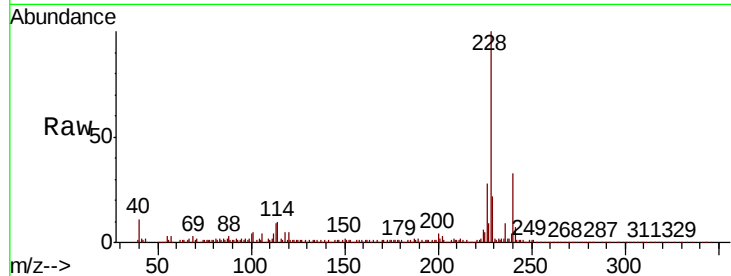
#81  
Benzo(a)anthracene  
Concen: 10.509 ng  
RT: 13.87 min Scan# 2004  
Delta R.T. 0.00 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-030520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.0  | 22.6  | 33.8  |
| 229     | 21.6  | 16.6  | 24.8  |

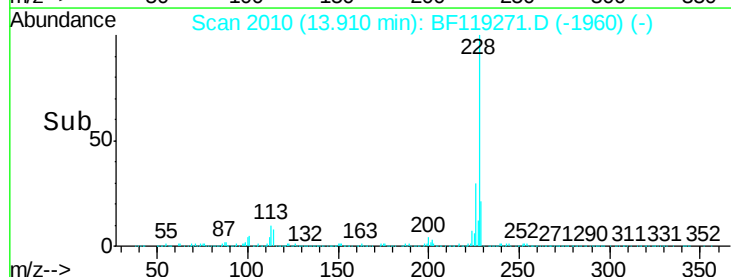
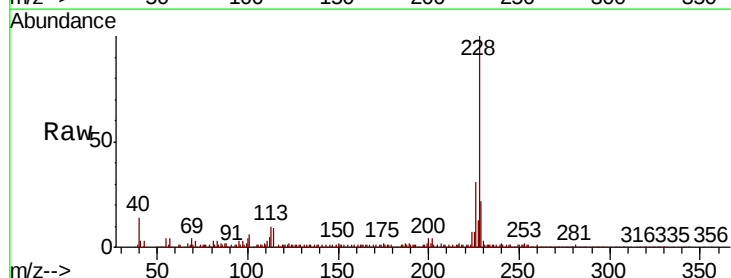
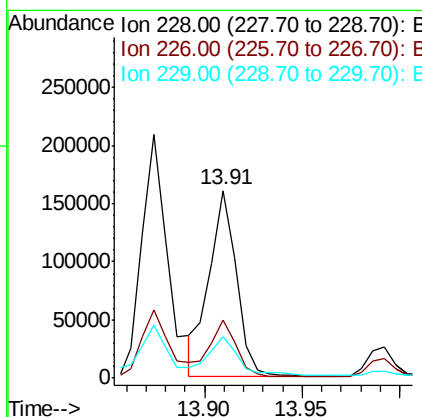
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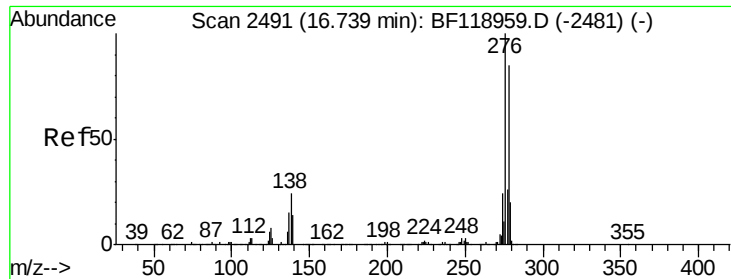
mohammad  
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#83  
Chrysene  
Concen: 8.403 ng  
RT: 13.91 min Scan# 2010  
Delta R.T. -0.01 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.9  | 25.1  | 37.7  |
| 229     | 21.9  | 16.3  | 24.5  |





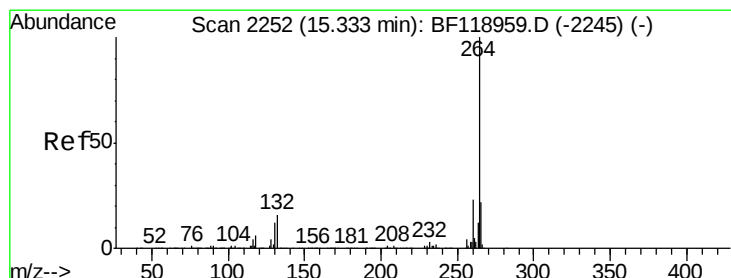
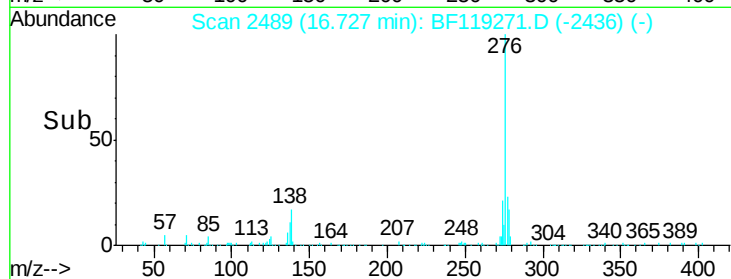
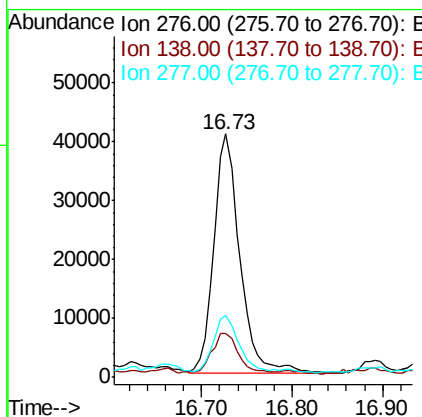
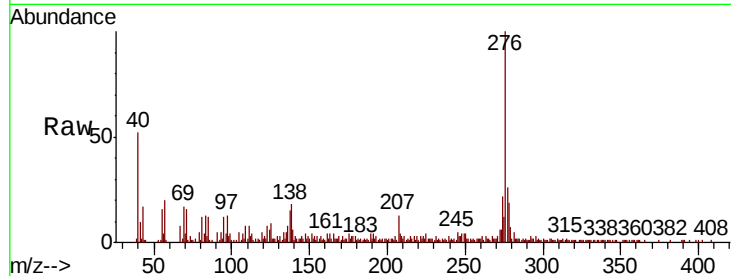
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 4.538 ng  
RT: 16.73 min Scan# 2489  
Delta R.T. 0.01 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-030520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.3  | 17.4  | 26.0# |
| 277     | 22.0  | 20.3  | 30.5  |

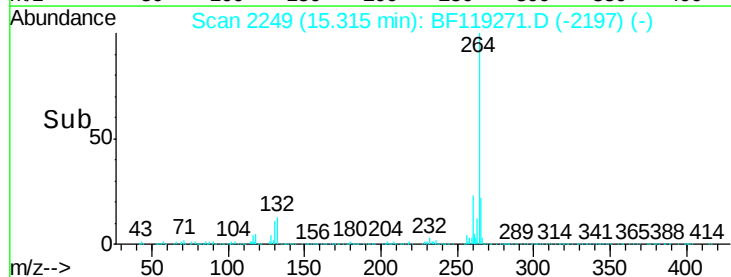
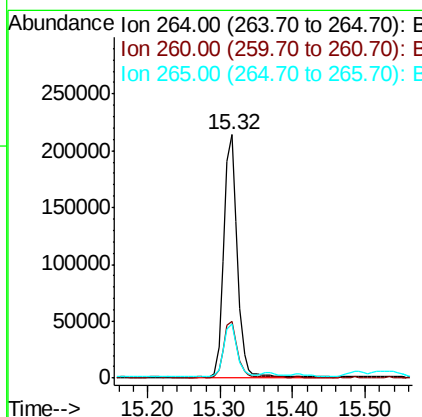
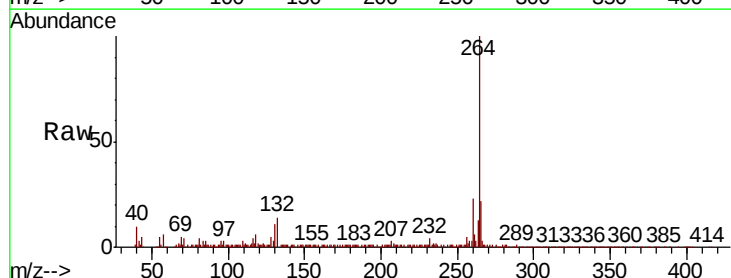
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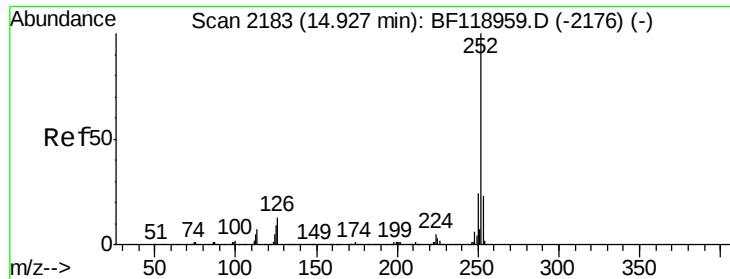
mohammad  
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#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.32 min Scan# 2249  
Delta R.T. 0.01 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.4  | 29.2  |
| 265     | 22.3  | 17.7  | 26.5  |





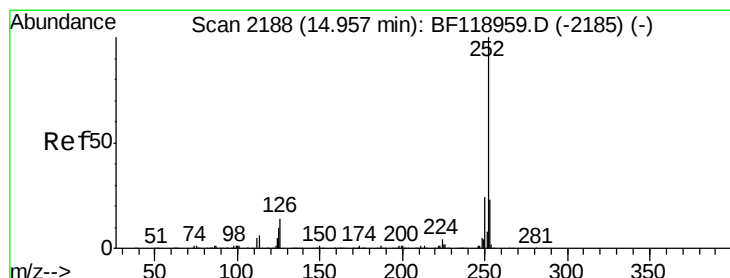
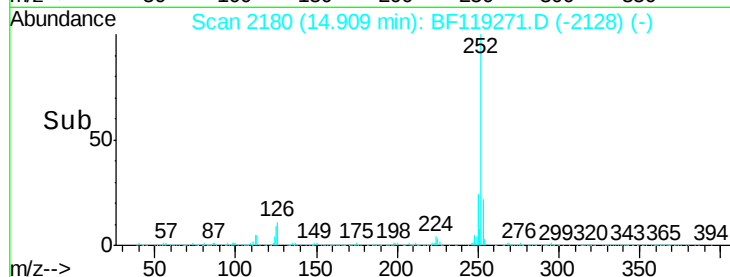
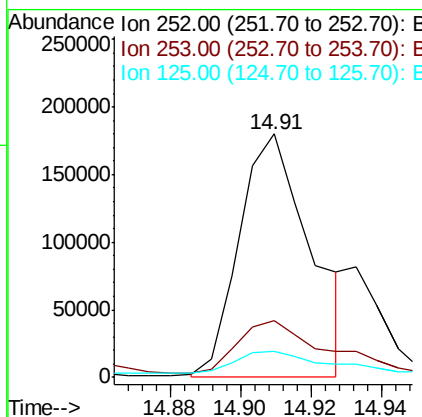
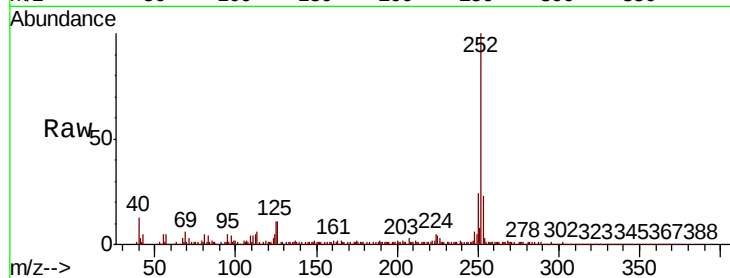
#88  
Benzo(b)fluoranthene  
Concen: 13.874 ng m  
RT: 14.91 min Scan# 2180  
Delta R.T. 0.01 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-030520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 18.1  | 27.1  |
| 125     | 10.6  | 7.4   | 11.0  |

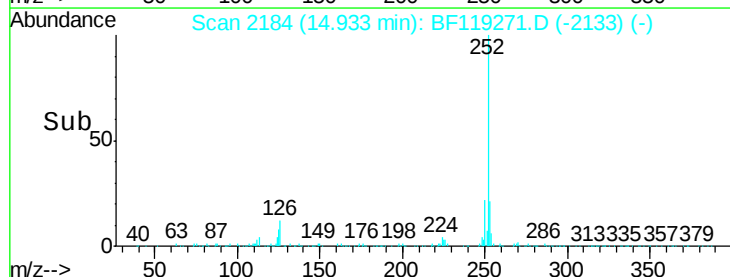
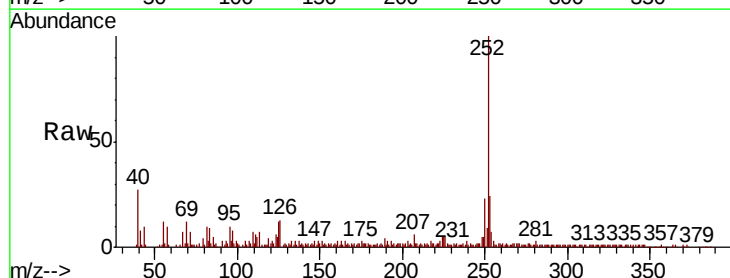
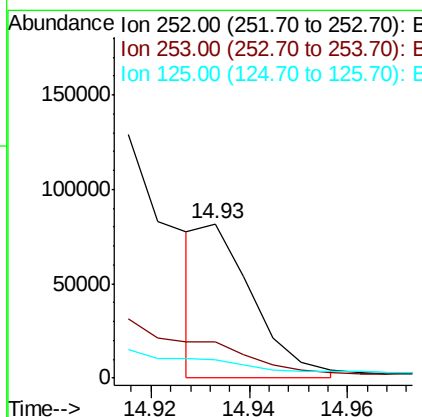
Manual Integrations  
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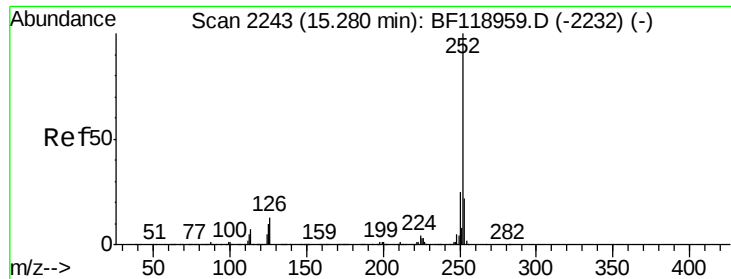
mohammad  
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#89  
Benzo(k)fluoranthene  
Concen: 3.528 ng m  
RT: 14.93 min Scan# 2184  
Delta R.T. 0.00 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.8  | 26.8  |
| 125     | 11.7  | 7.5   | 11.3  |





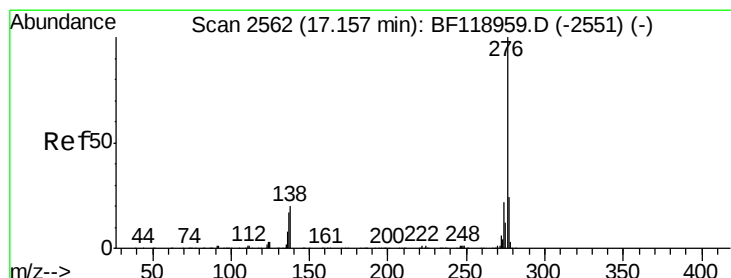
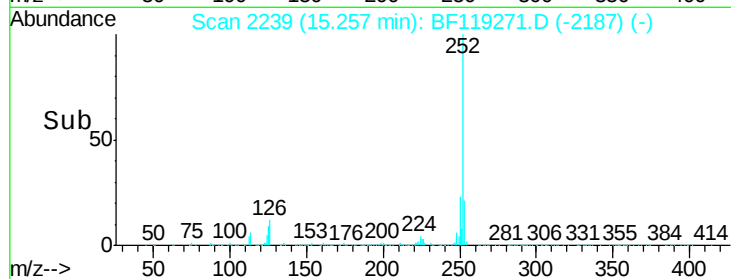
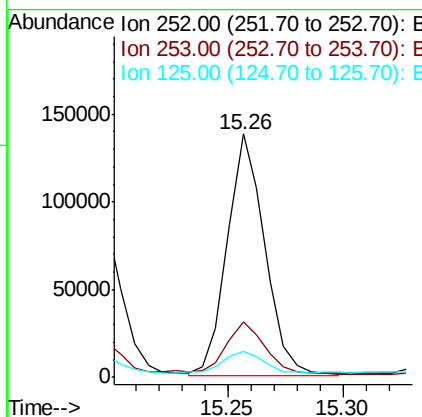
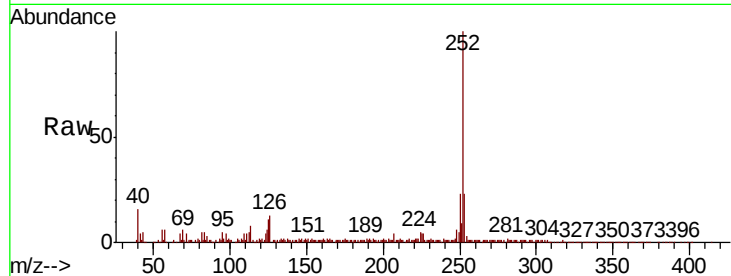
#90  
Benzo(a)pyrene  
Concen: 9.471 ng  
RT: 15.26 min Scan# 2239  
Delta R.T. 0.01 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-030520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 18.0  | 27.0  |
| 125     | 10.7  | 8.6   | 12.8  |

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#92  
Benzo(g,h,i)perylene  
Concen: 4.791 ng  
RT: 17.15 min Scan# 2561  
Delta R.T. 0.01 min  
Lab File: BF119271.D  
Acq: 7 Mar 2020 1:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 27.4  | 18.7  | 28.1  |
| 138     | 21.0  | 14.3  | 21.5  |

