

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\  
 Data File : BF121827.D  
 Acq On : 5 Oct 2020 20:20  
 Operator : JU/CG  
 Sample : L4247-06  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-19(4-5)

Manual Integrations  
 APPROVED

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 10/7/2020 10:36:16 AM

Quant Time: Oct 06 00:57:36 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 01 14:29:14 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.76  | 152  | 113764   | 20.00 | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.05  | 136  | 432195   | 20.00 | ng    | -0.01       |
| 39) Acenaphthene-d10        | 9.80  | 164  | 201958   | 20.00 | ng    | -0.01       |
| 64) Phenanthrene-d10        | 11.29 | 188  | 334082   | 20.00 | ng    | 0.00        |
| 76) Chrysene-d12            | 13.92 | 240  | 248708   | 20.00 | ng    | -0.01       |
| 86) Perylene-d12            | 15.36 | 264  | 242594   | 20.00 | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |       |       |             |
| 5) 2-Fluorophenol           | 5.38  | 112  | 635860   | 83.06 | ng    | 0.00        |
| 7) Phenol-d6                | 6.40  | 99   | 804108   | 80.07 | ng    | -0.01       |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 543758   | 67.55 | ng    | -0.01       |
| 42) 2,4,6-Tribromophenol    | 10.59 | 330  | 201337   | 80.21 | ng    | -0.01       |
| 45) 2-Fluorobiphenyl        | 9.12  | 172  | 838873   | 62.91 | ng    | -0.01       |
| 79) Terphenyl-d14           | 12.87 | 244  | 667598   | 54.38 | ng    | -0.01       |
| Target Compounds            |       |      |          |       |       |             |
| 50) Dimethylphthalate       | 9.52  | 163  | 96329    | 6.581 | ng    | Qvalue # 97 |
| 71) Phenanthrene            | 11.31 | 178  | 84022    | 4.616 | ng    | 97          |
| 75) Fluoranthene            | 12.50 | 202  | 134497   | 6.922 | ng    | 97          |
| 78) Pyrene                  | 12.72 | 202  | 138606   | 7.628 | ng    | 98          |
| 81) Benzo(a)anthracene      | 13.91 | 228  | 71751    | 4.560 | ng    | 97          |
| 83) Chrysene                | 13.94 | 228  | 61333    | 3.849 | ng    | 95          |
| 87) Indeno(1,2,3-cd)pyrene  | 16.77 | 276  | 33773    | 2.138 | ng    | 95          |
| 88) Benzo(b)fluoranthene    | 14.94 | 252  | 87219m   | 5.378 | ng    |             |
| 90) Benzo(a)pyrene          | 15.30 | 252  | 62251    | 4.516 | ng    | # 89        |
| 92) Benzo(g,h,i)perylene    | 17.20 | 276  | 33884    | 2.621 | ng    | 91          |

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

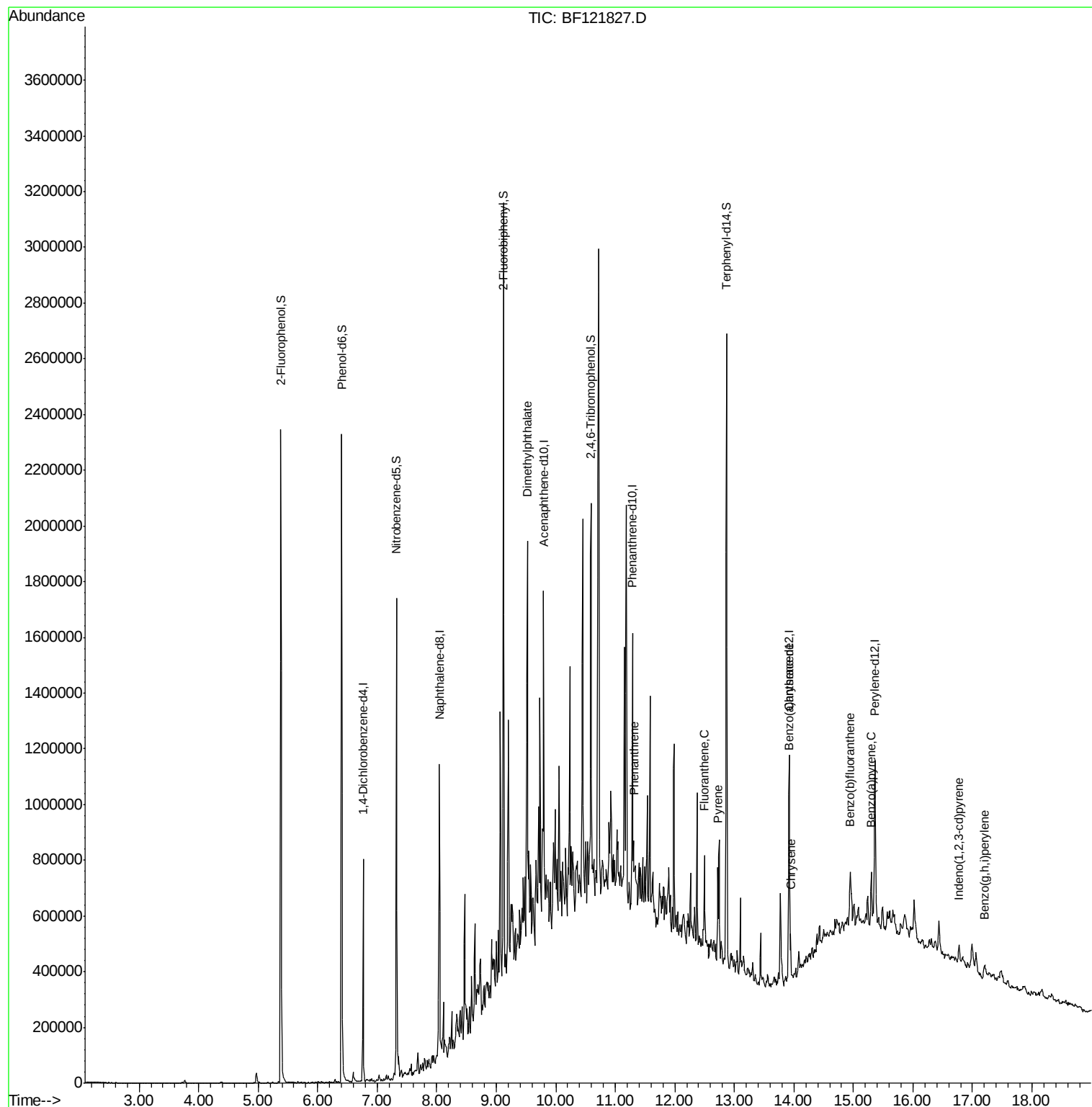
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\  
Data File : BF121827.D  
Acq On : 5 Oct 2020 20:20  
Operator : JU/CG  
Sample : L4247-06  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

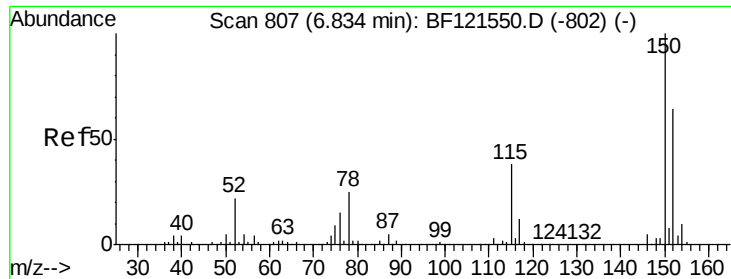
Instrument :  
BNA\_F  
ClientSampleId :  
B-19(4-5)

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Quant Time: Oct 06 00:57:36 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 01 14:29:14 2020  
Response via : Initial Calibration





#1

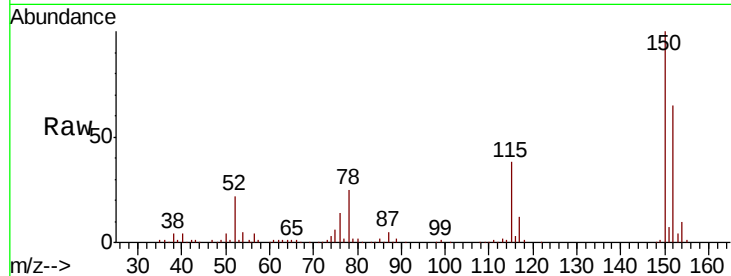
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.76 min Scan# 795  
Delta R.T. -0.01 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

Instrument :  
BNA\_F  
ClientSampled :  
B-19(4-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.6 | 125.3 | 187.9 |
| 115     | 58.4  | 51.9  | 77.9  |

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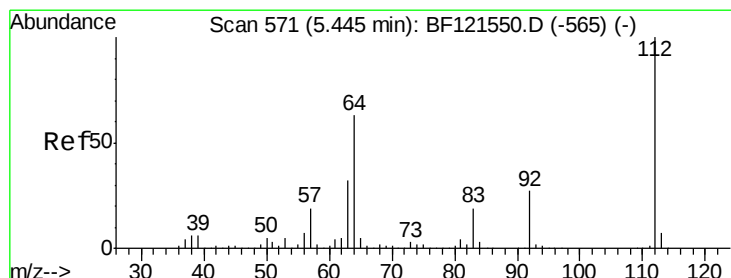
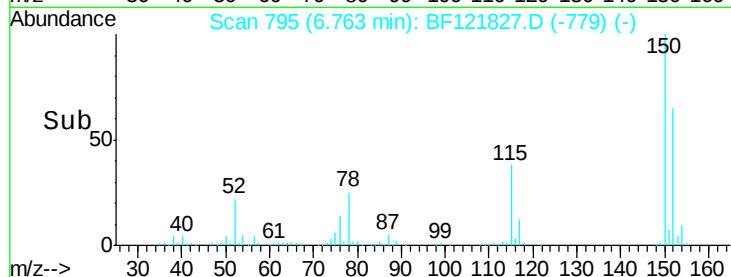
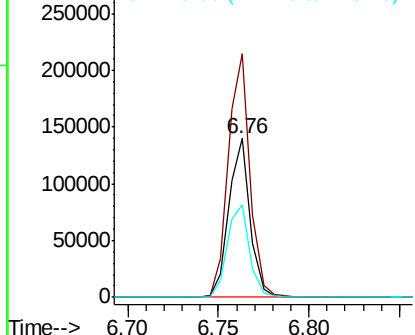


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

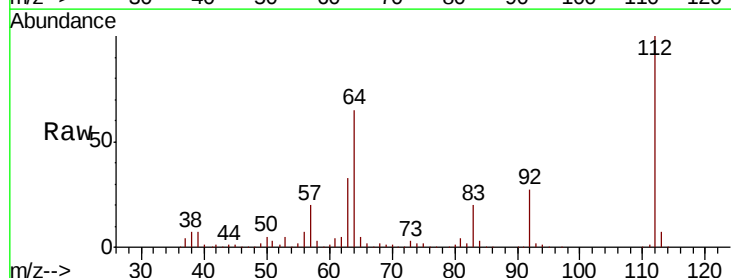
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 83.064 ng  
RT: 5.38 min Scan# 560  
Delta R.T. -0.01 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 65.1  | 50.4  | 75.6  |
| 63      | 33.1  | 25.8  | 38.6  |

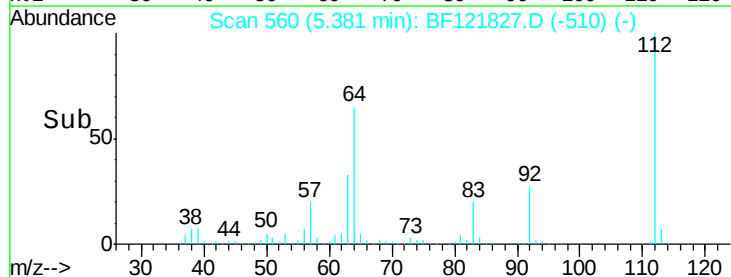
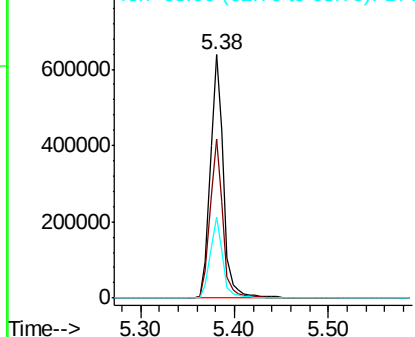


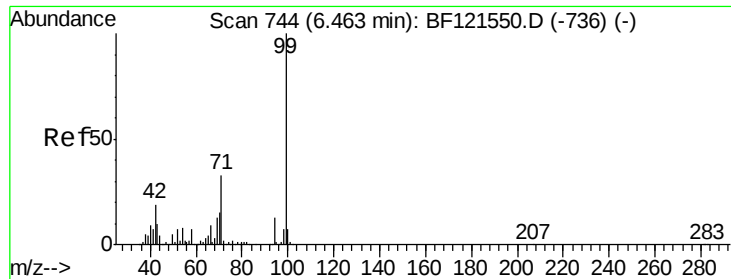
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 80.067 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF121827.D

Acq: 5 Oct 2020 20:20

Instrument :

BNA\_F

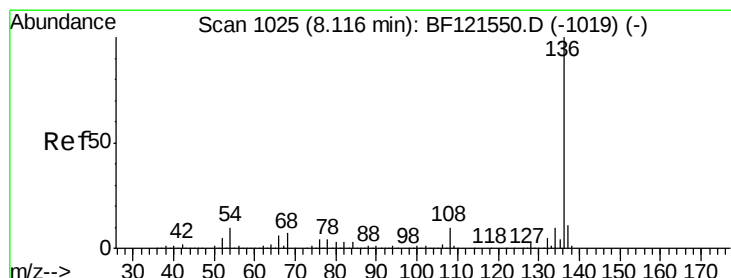
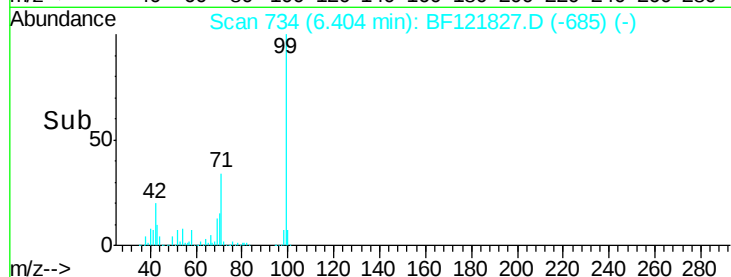
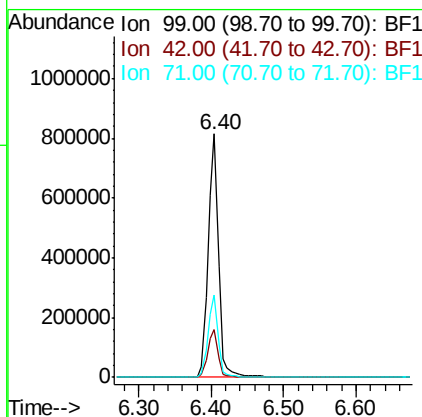
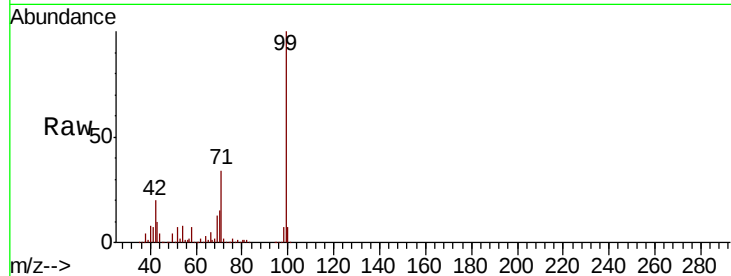
ClientSampled :

B-19(4-5)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 804108 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.9  | 15.9  | 23.9   |
| 71        | 33.8  | 27.1  | 40.7   |

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#21

Naphthalene-d8

Concen: 20.000 ng

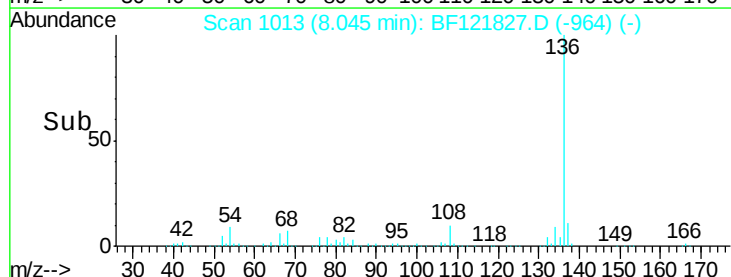
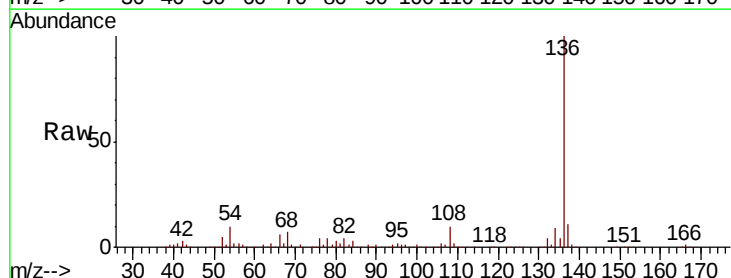
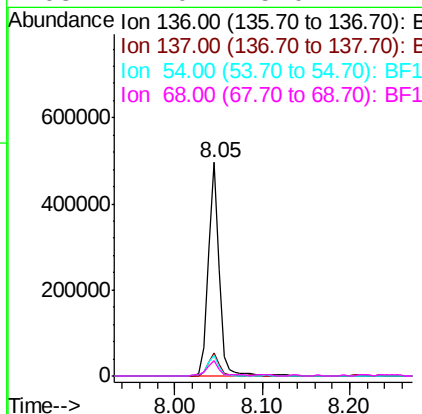
RT: 8.05 min Scan# 1013

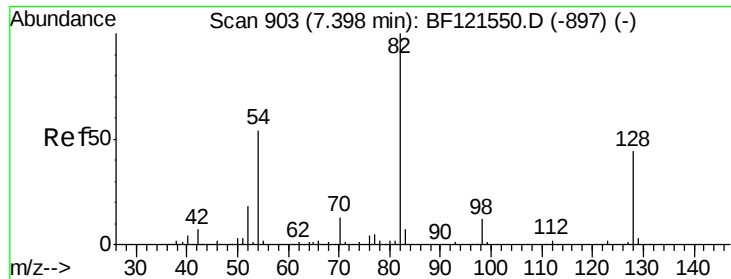
Delta R.T. -0.01 min

Lab File: BF121827.D

Acq: 5 Oct 2020 20:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 432195 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 8.6   | 13.0   |
| 54        | 9.5   | 7.1   | 10.7   |
| 68        | 7.0   | 5.0   | 7.4    |





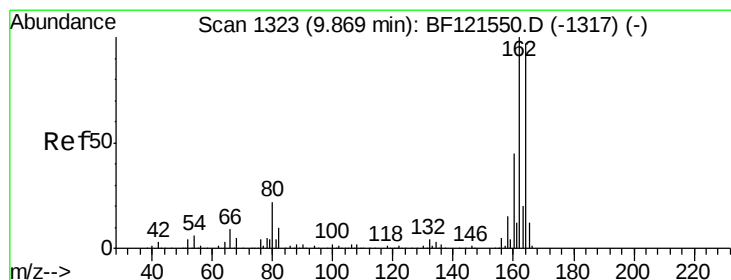
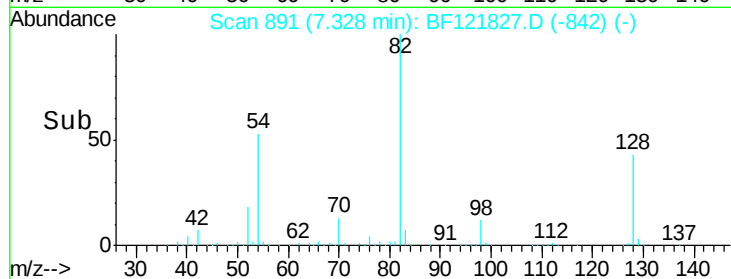
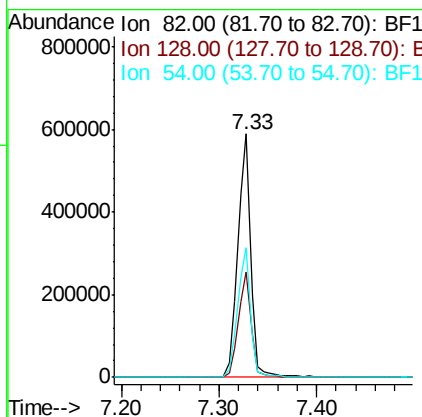
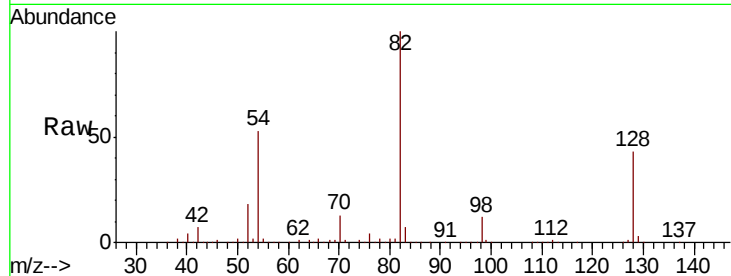
#23  
Nitrobenzene-d5  
Concen: 67.551 ng  
RT: 7.33 min Scan# 891  
Delta R.T. -0.01 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

Instrument :  
BNA\_F  
ClientSampleId :  
B-19(4-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.3  | 35.0  | 52.4  |
| 54      | 53.4  | 43.9  | 65.9  |

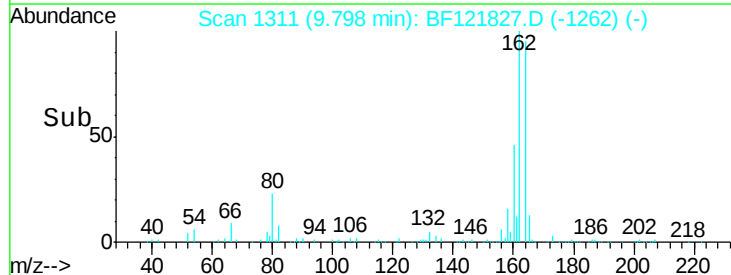
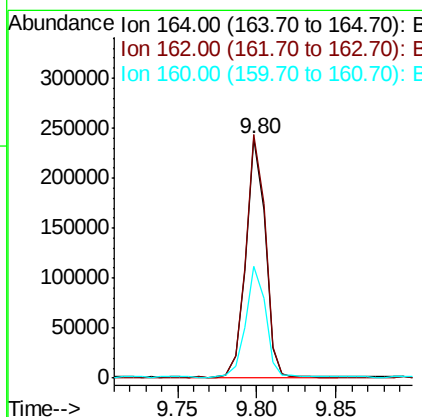
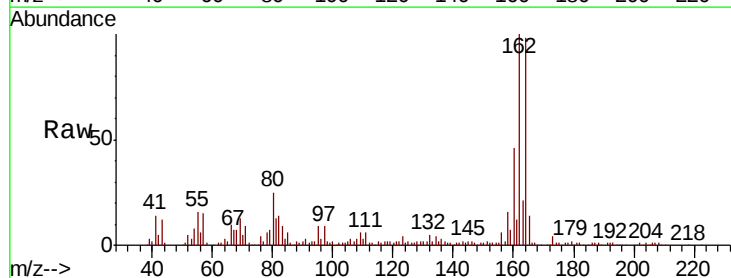
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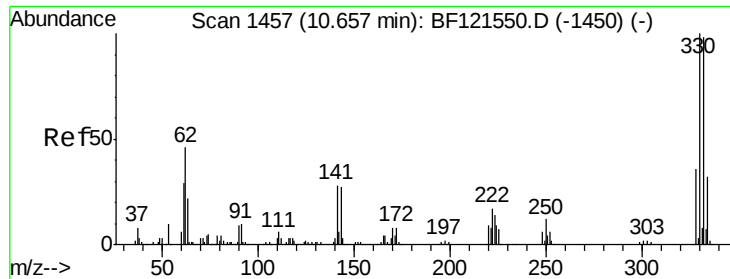
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.80 min Scan# 1311  
Delta R.T. -0.01 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.7 | 83.2  | 124.8 |
| 160     | 46.7  | 37.5  | 56.3  |





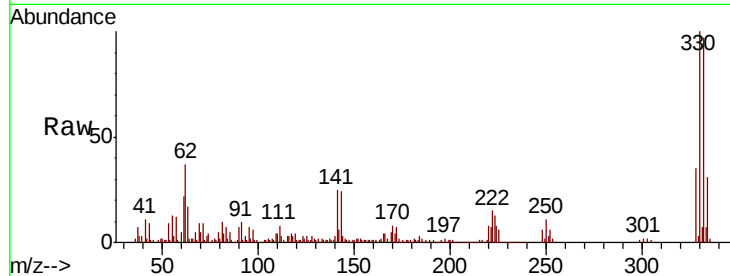
#42  
 2,4,6-Tribromophenol  
 Concen: 80.212 ng  
 RT: 10.59 min Scan# 1446  
 Delta R.T. -0.01 min  
 Lab File: BF121827.D  
 Acq: 5 Oct 2020 20:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-19(4-5)

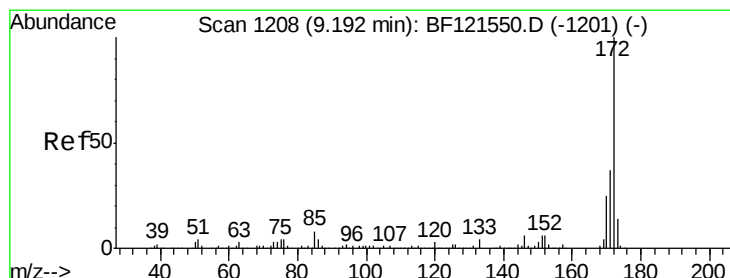
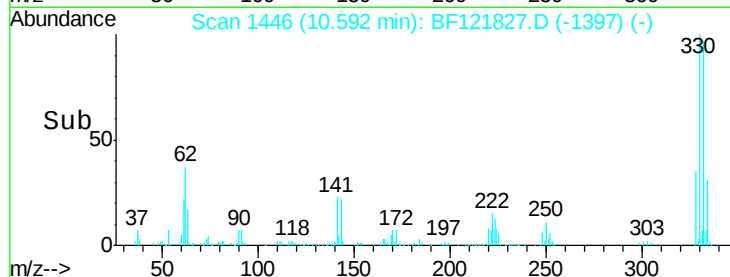
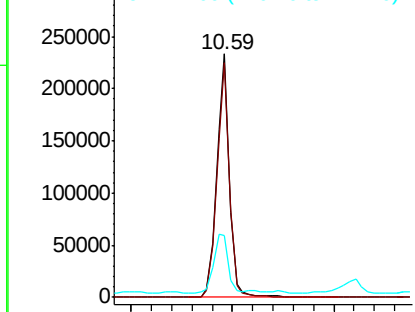
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 201337 |       |       |
| 332     | 96.6  | 77.3   | 115.9 |       |
| 141     | 27.6  | 22.3   | 33.5  |       |

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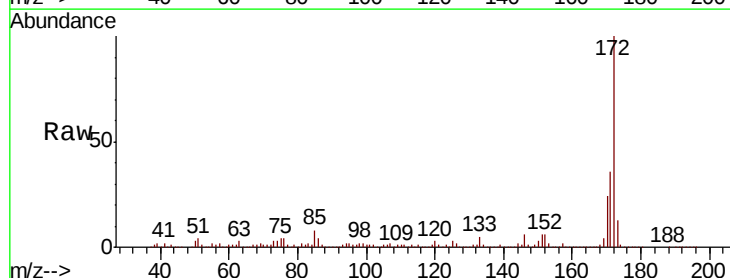


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

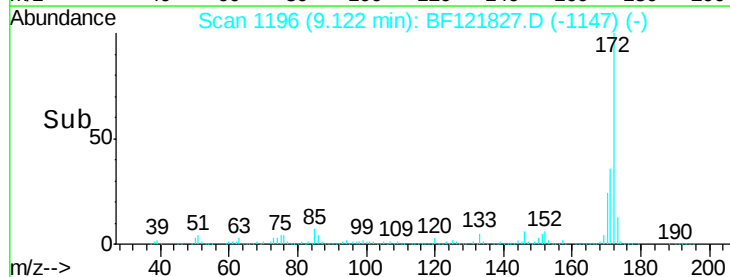
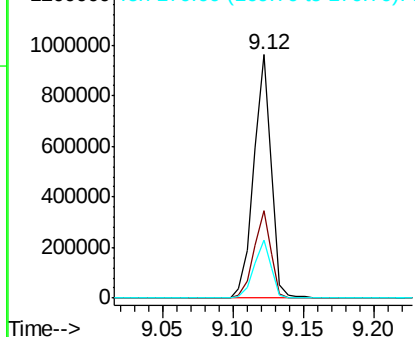


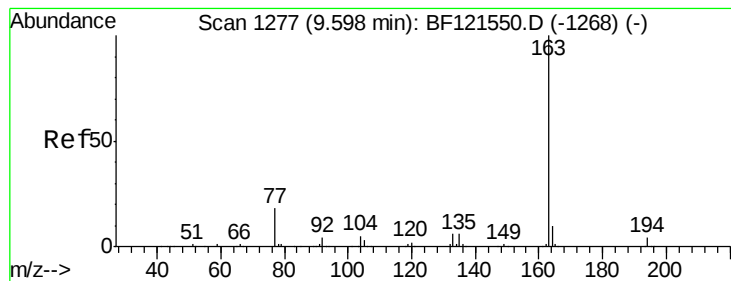
#45  
 2-Fluorobiphenyl  
 Concen: 62.909 ng  
 RT: 9.12 min Scan# 1196  
 Delta R.T. -0.01 min  
 Lab File: BF121827.D  
 Acq: 5 Oct 2020 20:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 838873 |       |       |
| 171     | 35.7  | 29.1   | 43.7  |       |
| 170     | 23.6  | 19.8   | 29.6  |       |



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





#50

Dimethylphthalate

Concen: 6.581 ng

RT: 9.52 min Scan# 1263

Delta R.T. -0.02 min

Lab File: BF121827.D

Acq: 5 Oct 2020 20:20

Instrument :

BNA\_F

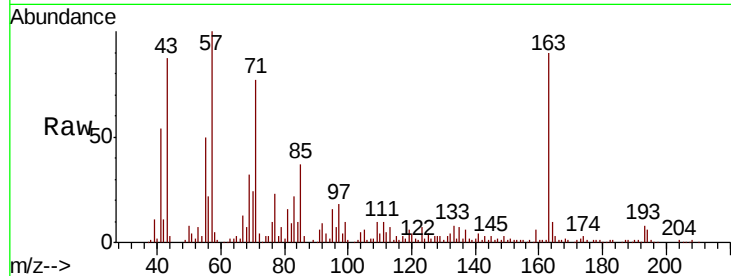
ClientSampleId :

B-19(4-5)

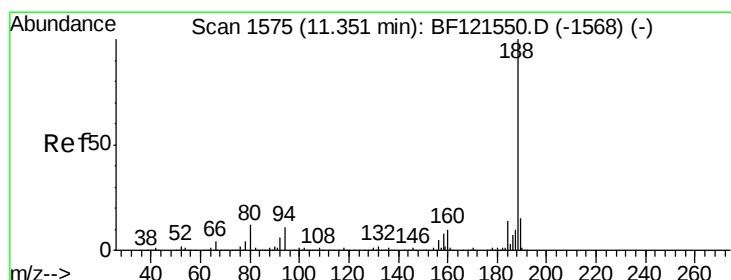
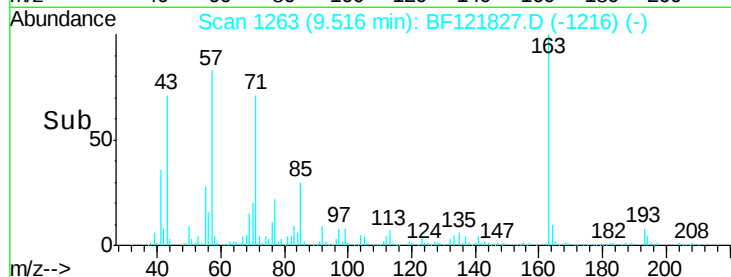
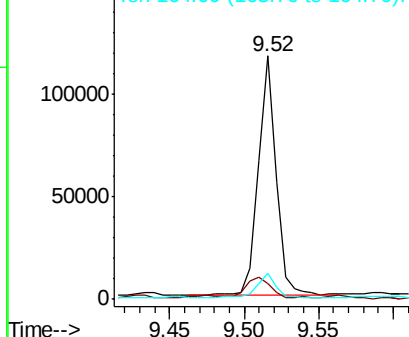
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 96329 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 6.3   | 3.3   | 4.9#  |
| 164       | 10.9  | 8.2   | 12.4  |

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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



#64

Phenanthrene-d10

Concen: 20.000 ng

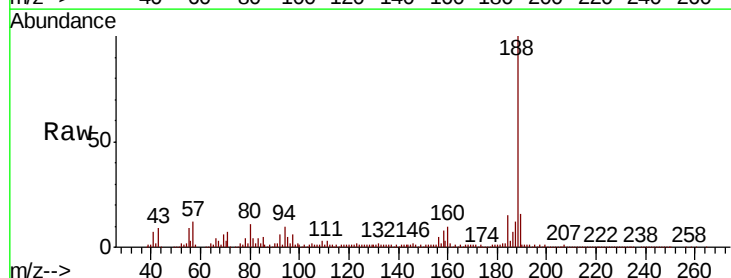
RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

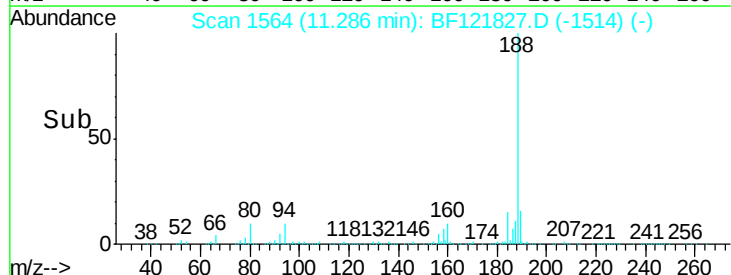
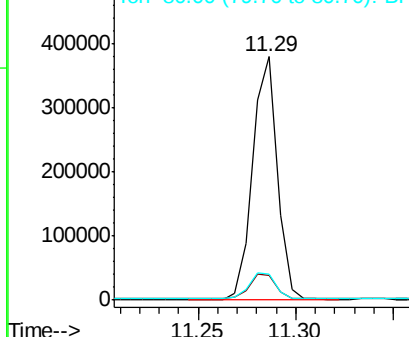
Lab File: BF121827.D

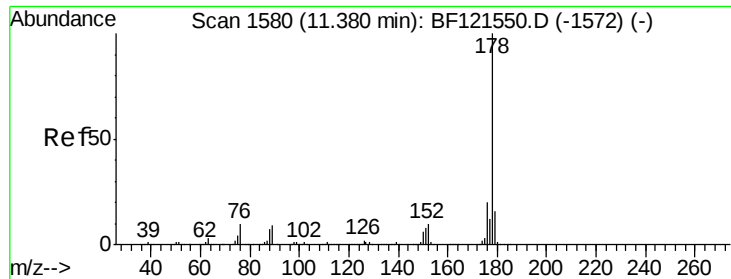
Acq: 5 Oct 2020 20:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 334082 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 10.3  | 8.3   | 12.5   |
| 80        | 10.9  | 9.1   | 13.7   |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1





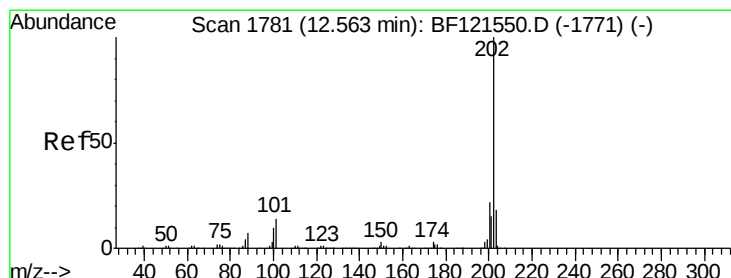
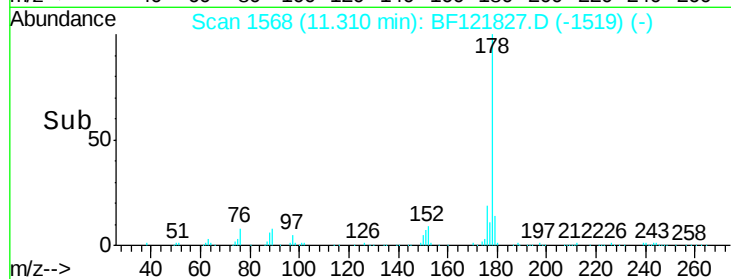
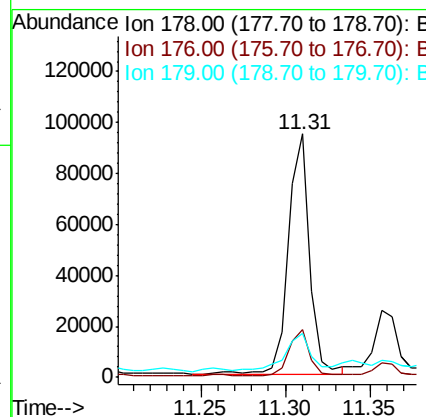
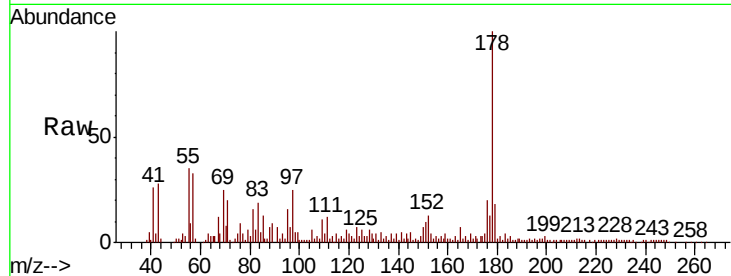
#71  
Phenanthrene  
Concen: 4.616 ng  
RT: 11.31 min Scan# 1568  
Delta R.T. -0.01 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

Instrument :  
BNA\_F  
ClientSampleId :  
B-19(4-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.8  | 15.9  | 23.9  |
| 179     | 18.1  | 12.2  | 18.4  |

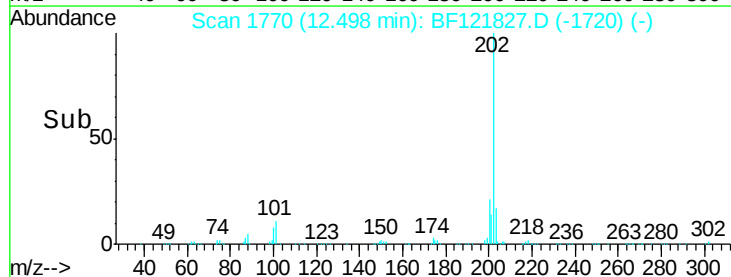
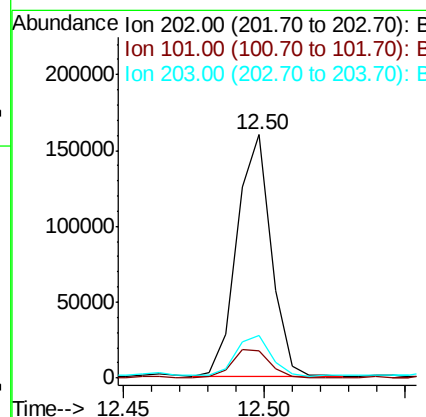
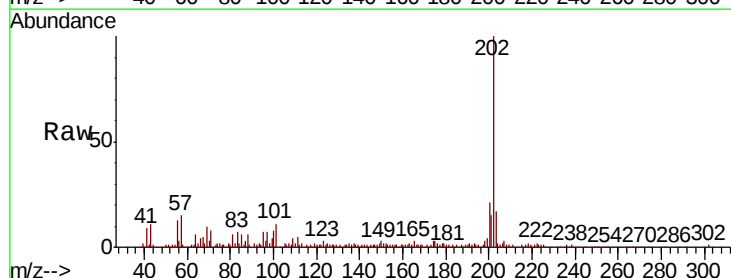
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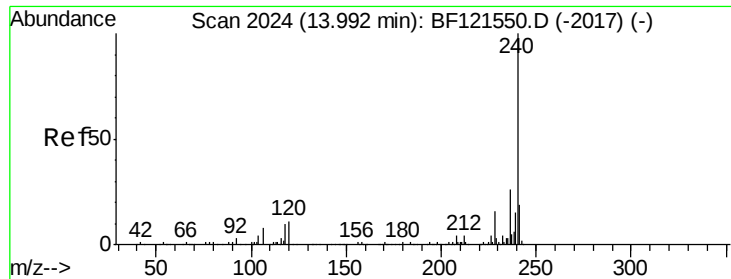
mohammad  
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#75  
Fluoranthene  
Concen: 6.922 ng  
RT: 12.50 min Scan# 1770  
Delta R.T. -0.01 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.2  | 0.0   | 33.4  |
| 203     | 17.3  | 0.0   | 37.9  |





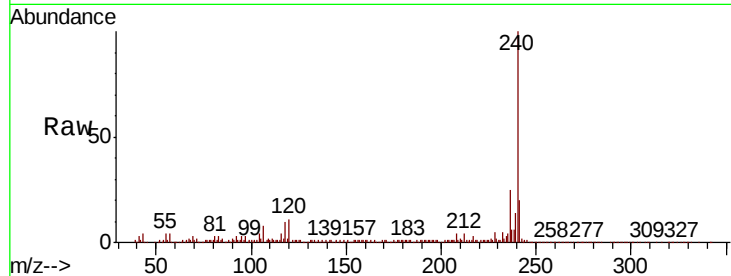
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.92 min Scan# 2012  
Delta R.T. -0.01 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

Instrument :  
BNA\_F  
ClientSampleId :  
B-19(4-5)

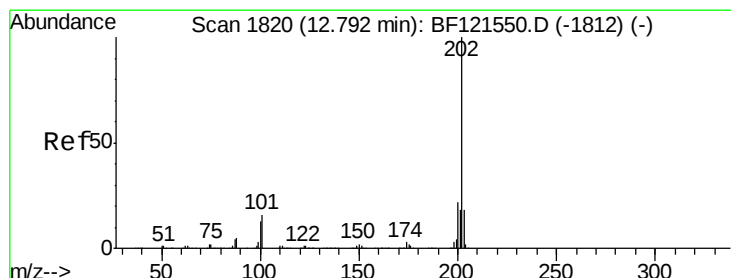
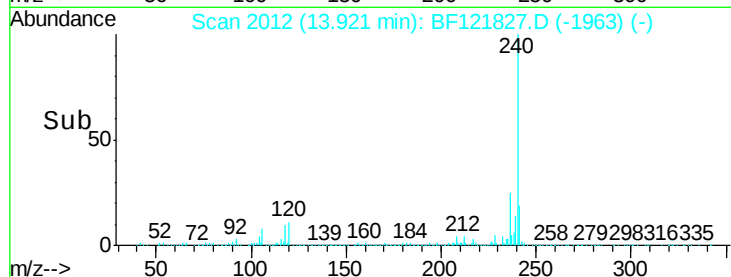
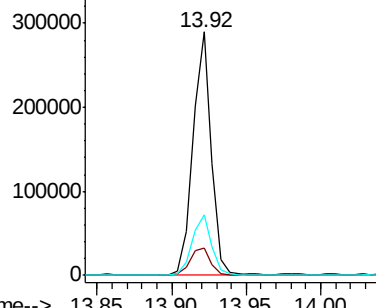
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.4  | 9.2   | 13.8  |
| 236     | 24.9  | 20.9  | 31.3  |

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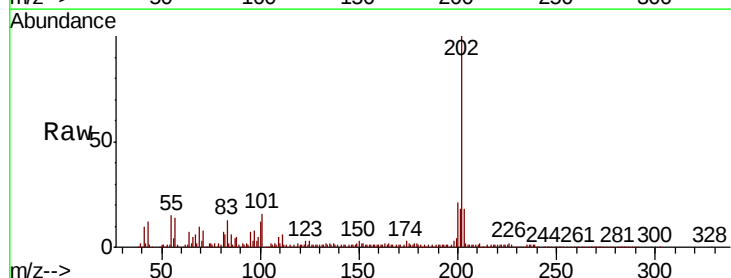


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

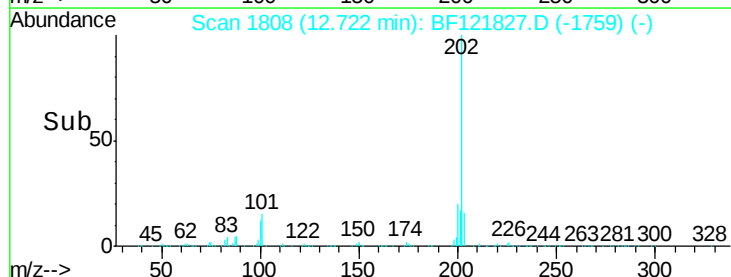
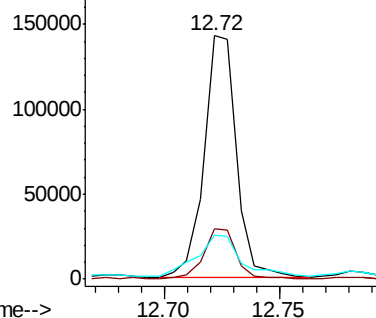


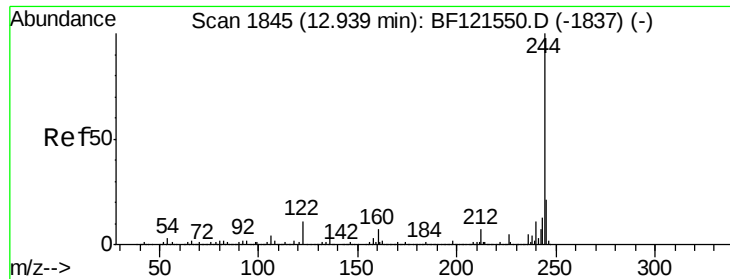
#78  
Pyrene  
Concen: 7.628 ng  
RT: 12.72 min Scan# 1808  
Delta R.T. -0.01 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.5  | 17.4  | 26.2  |
| 203     | 18.1  | 14.6  | 21.8  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





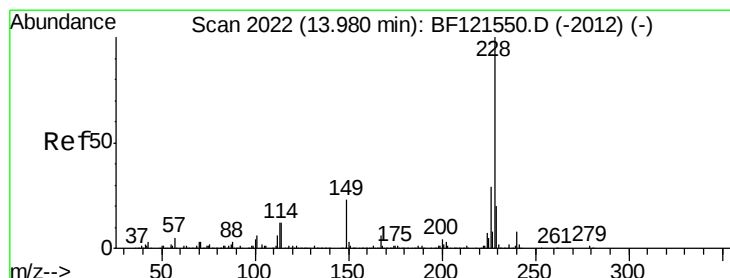
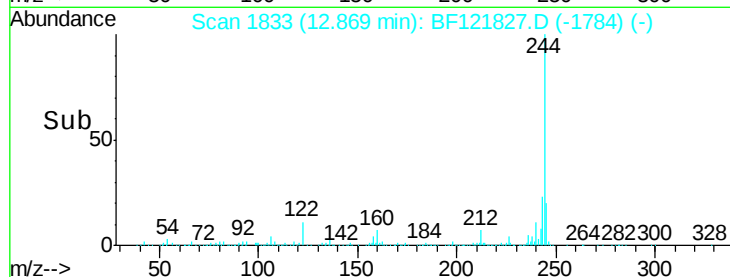
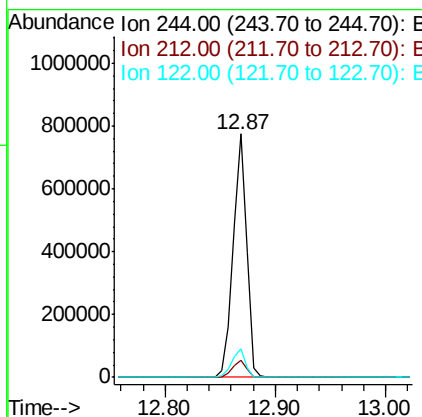
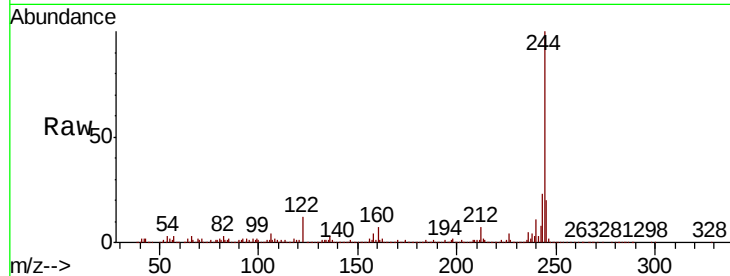
#79  
 Terphenyl-d14  
 Concen: 54.381 ng  
 RT: 12.87 min Scan# 1833  
 Delta R.T. -0.01 min  
 Lab File: BF121827.D  
 Acq: 5 Oct 2020 20:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-19(4-5)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 667598 |       |       |
| 212     | 7.1   |        | 5.4   | 8.2   |
| 122     | 11.6  |        | 8.1   | 12.1  |

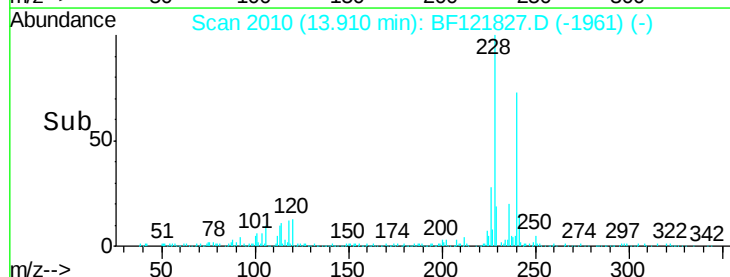
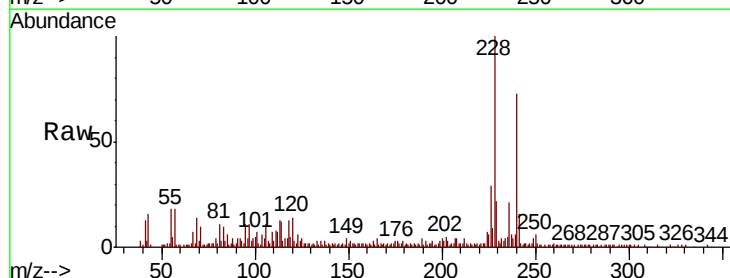
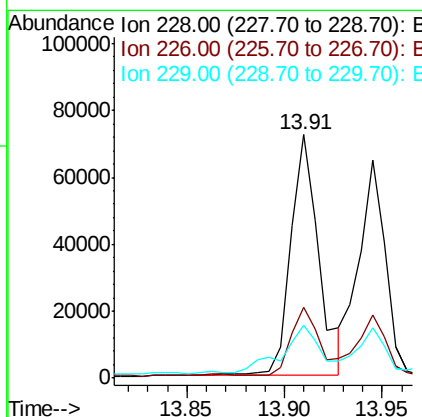
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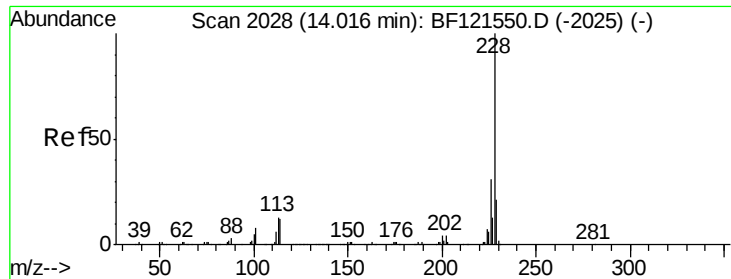
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#81  
 Benzo(a)anthracene  
 Concen: 4.560 ng  
 RT: 13.91 min Scan# 2010  
 Delta R.T. -0.01 min  
 Lab File: BF121827.D  
 Acq: 5 Oct 2020 20:20

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 71751 |       |       |
| 226     | 29.1  |       | 22.3  | 33.5  |
| 229     | 21.8  |       | 16.2  | 24.4  |





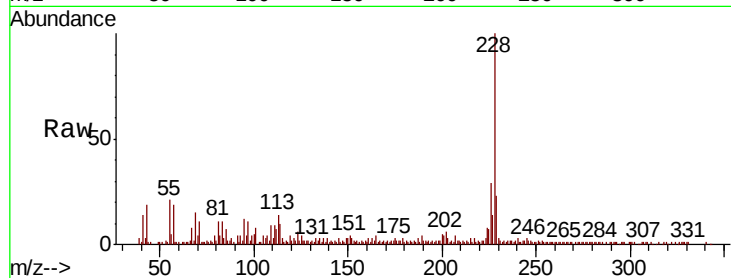
#83  
Chrysene  
Concen: 3.849 ng  
RT: 13.94 min Scan# 2016  
Delta R.T. -0.01 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

Instrument :  
BNA\_F  
ClientSampleId :  
B-19(4-5)

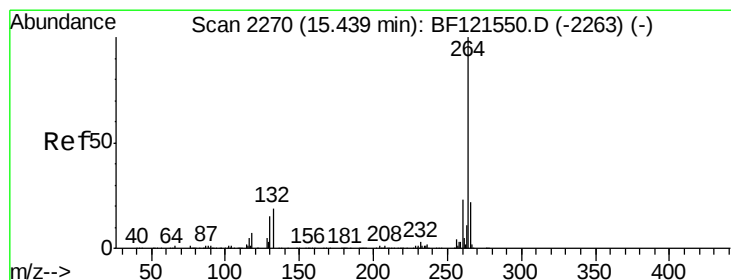
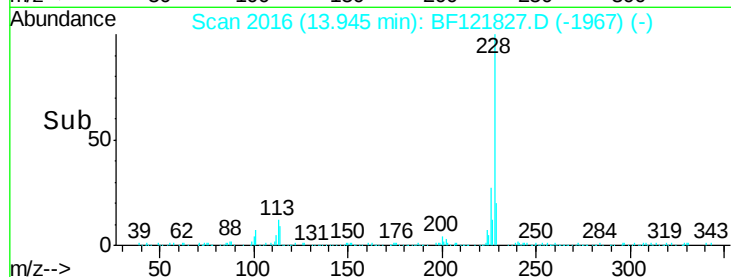
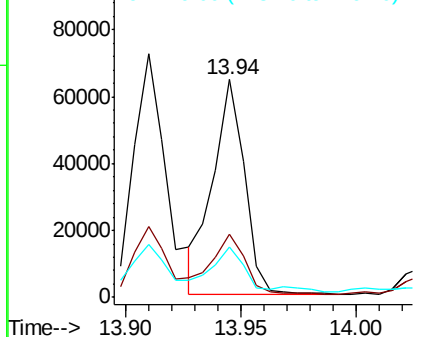
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 61333 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.0  | 24.6  | 37.0  |
| 229       | 23.3  | 15.9  | 23.9  |

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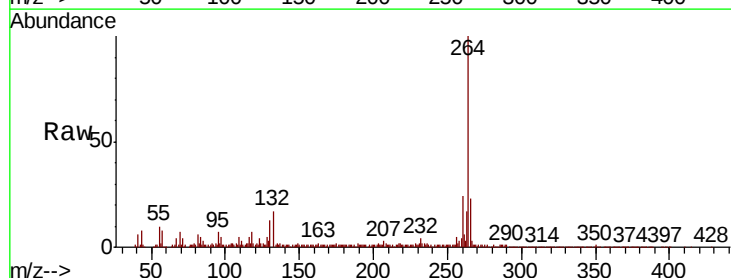


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

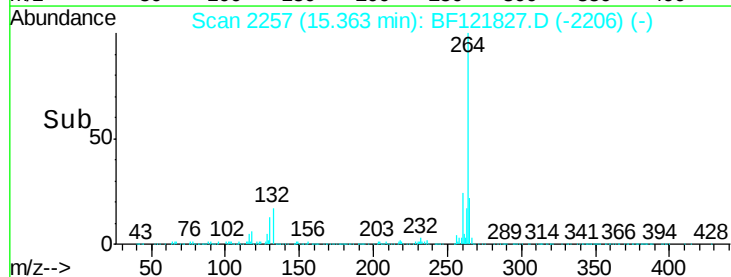
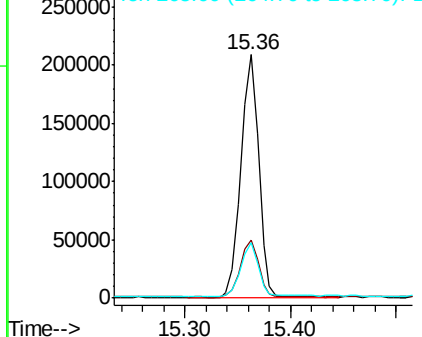


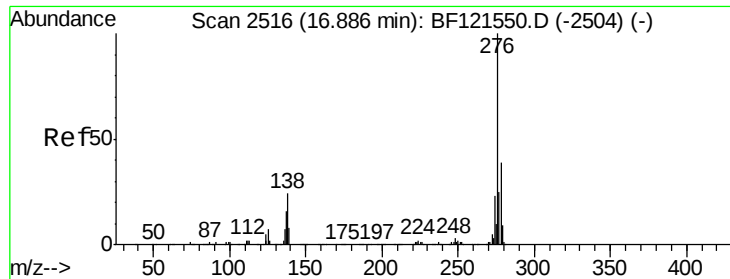
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.36 min Scan# 2257  
Delta R.T. 0.00 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 242594 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.1  | 18.7  | 28.1   |
| 265       | 22.8  | 17.3  | 25.9   |



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





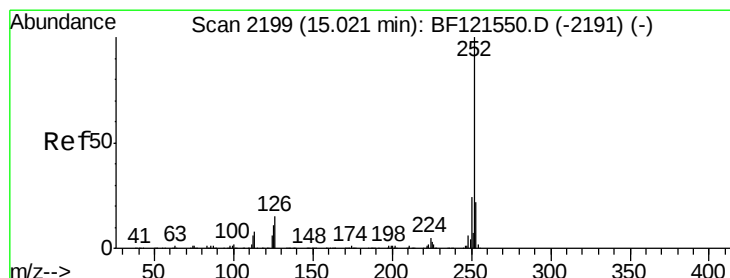
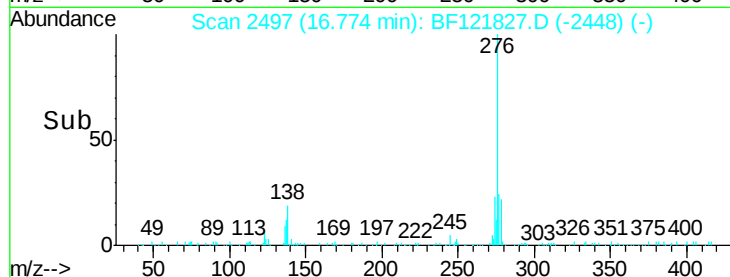
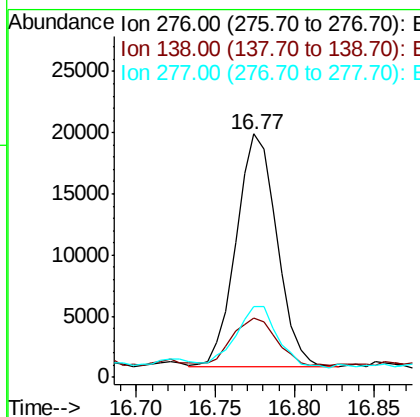
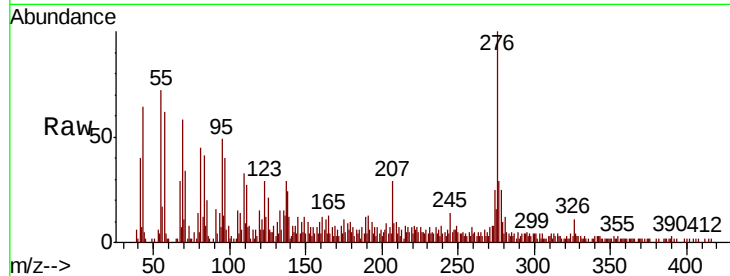
#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.138 ng  
 RT: 16.77 min Scan# 2497  
 Delta R.T. -0.01 min  
 Lab File: BF121827.D  
 Acq: 5 Oct 2020 20:20

Instrument :  
 BNA\_F  
 ClientSampled :  
 B-19(4-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.1  | 19.9  | 29.9  |
| 277     | 27.3  | 20.4  | 30.6  |

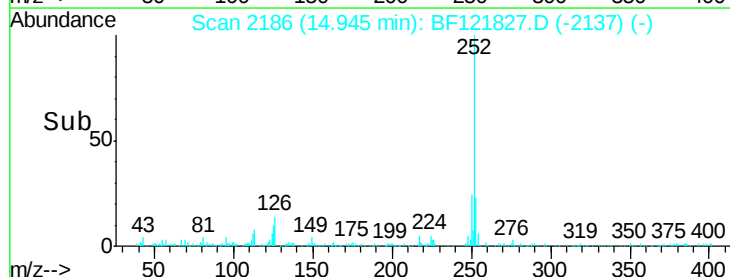
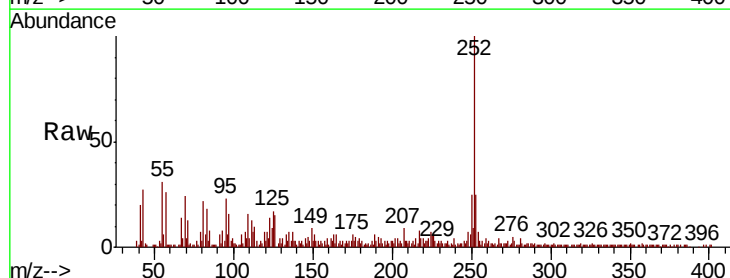
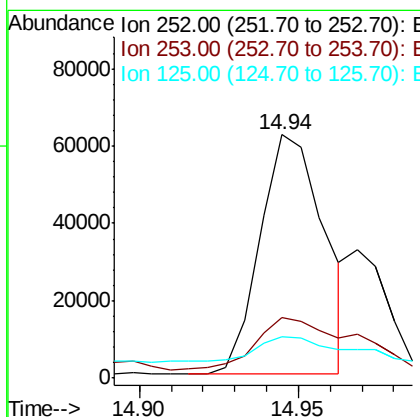
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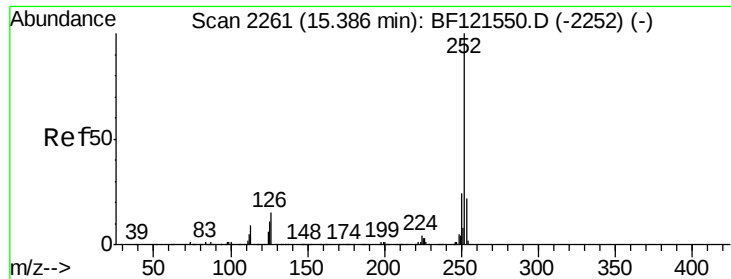
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#88  
 Benzo(b)fluoranthene  
 Concen: 5.378 ng m  
 RT: 14.94 min Scan# 2186  
 Delta R.T. -0.01 min  
 Lab File: BF121827.D  
 Acq: 5 Oct 2020 20:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 18.2  | 27.2  |
| 125     | 16.9  | 8.0   | 12.0  |





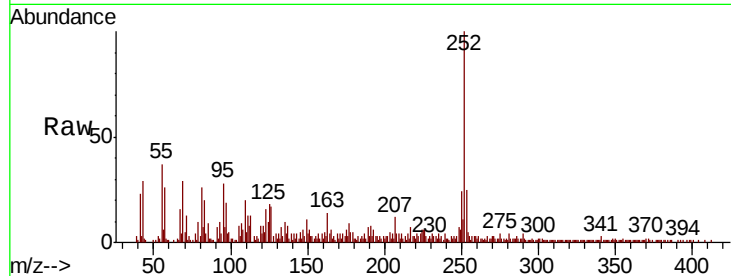
#90  
Benzo(a)pyrene  
Concen: 4.516 ng  
RT: 15.30 min Scan# 2246  
Delta R.T. -0.01 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

Instrument :  
BNA\_F  
ClientSampleId :  
B-19(4-5)

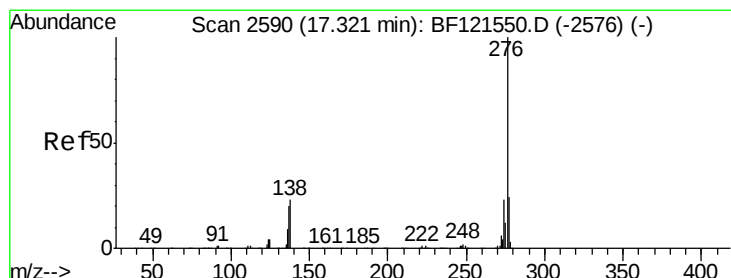
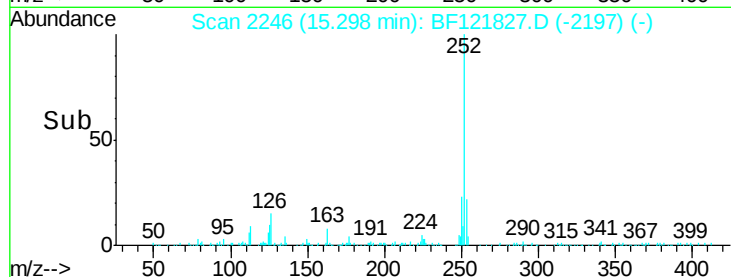
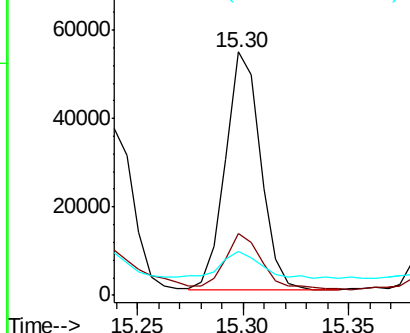
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 17.3  | 25.9  |
| 125     | 18.1  | 8.6   | 13.0  |

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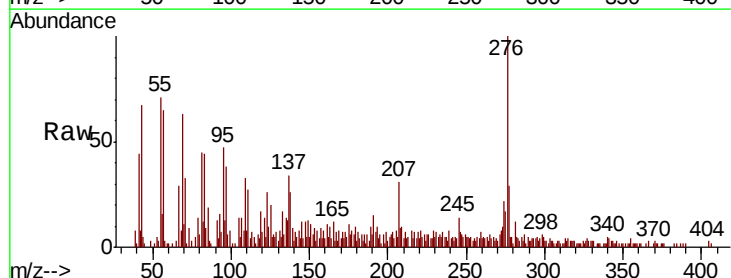


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#92  
Benzo(g,h,i)perylene  
Concen: 2.621 ng  
RT: 17.20 min Scan# 2570  
Delta R.T. -0.01 min  
Lab File: BF121827.D  
Acq: 5 Oct 2020 20:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 28.6  | 19.4  | 29.2  |
| 138     | 26.5  | 17.8  | 26.6  |



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

