

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP112021\  
 Data File : BP008071.D  
 Acq On : 20 Nov 2021 22:46  
 Operator : CG/JU  
 Sample : M4762-01  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 RBR-251674

Quant Time: Nov 22 05:35:28 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP111921.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Nov 20 00:21:11 2021  
 Response via : Initial Calibration

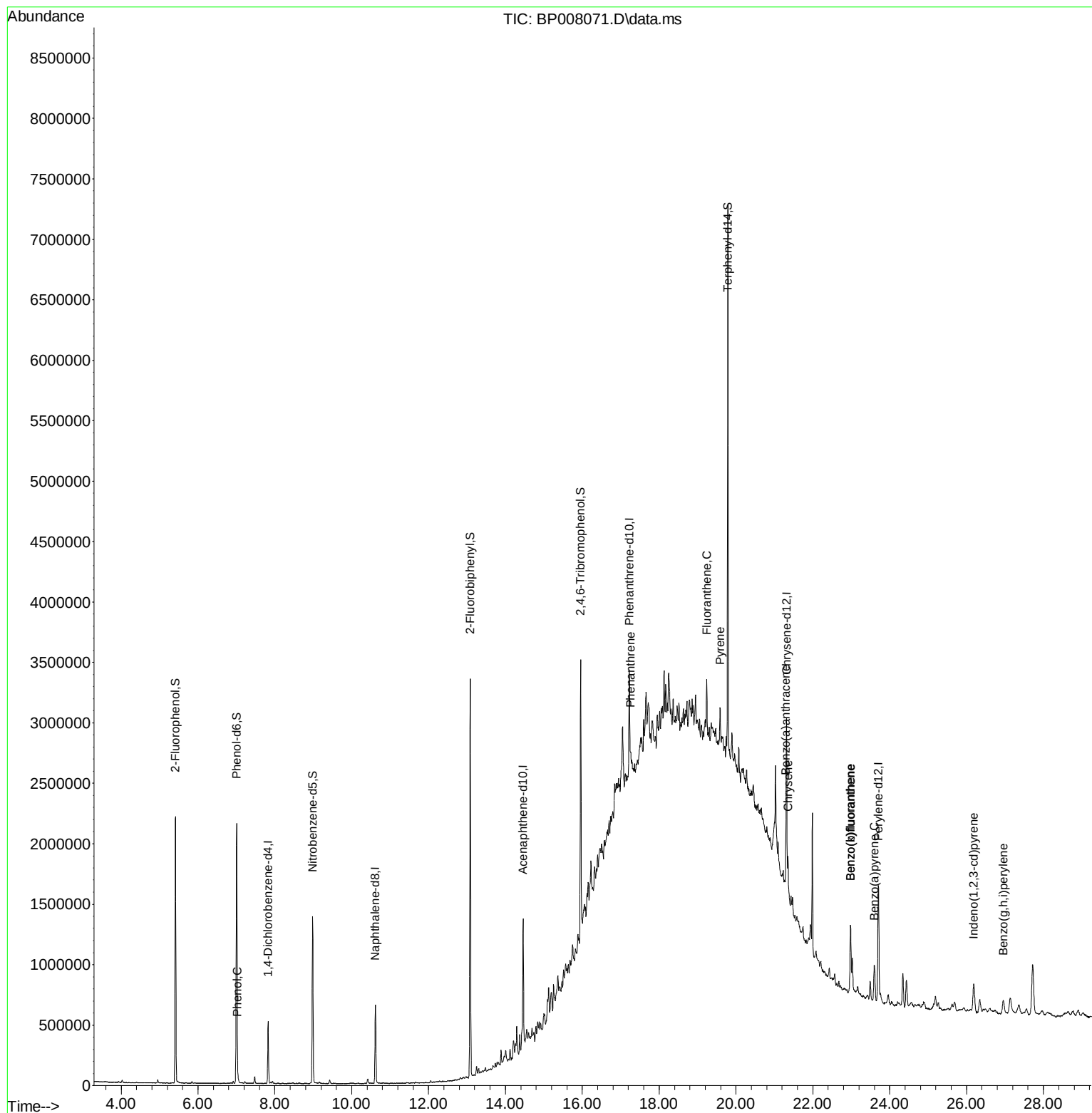
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.822  | 152  | 133750   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.616 | 136  | 516101   | 20.00     | ng    | -0.01    |
| 39) Acenaphthene-d10          | 14.463 | 164  | 340886   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.222 | 188  | 618043   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12              | 21.316 | 240  | 697965   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12              | 23.704 | 264  | 773575   | 20.00     | ng    | -0.02    |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.416  | 112  | 902558   | 115.34    | ng    | 0.00     |
| 7) Phenol-d6                  | 7.005  | 99   | 1169751  | 107.84    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.981  | 82   | 794503   | 69.84     | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 15.957 | 330  | 469263   | 108.78    | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 13.087 | 172  | 1724384  | 79.21     | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.792 | 244  | 2454429  | 69.14     | ng    | 0.00     |
| Target Compounds              |        |      |          |           |       |          |
|                               |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 6.963  | 77   | 776      | Below Cal | #     | 21       |
| 10) Phenol                    | 7.028  | 94   | 31477    | 2.71      | ng    | 87       |
| 58) Fluorene                  | 15.516 | 166  | 6508     | Below Cal | #     | 12       |
| 61) 4-Chlorophenyl-phenyle... | 15.534 | 204  | 4447     | Below Cal | #     | 1        |
| 71) Phenanthrene              | 17.263 | 178  | 96273    | 2.89      | ng    | # 76     |
| 75) Fluoranthene              | 19.239 | 202  | 286213   | 6.67      | ng    | 94       |
| 78) Pyrene                    | 19.592 | 202  | 261127   | 5.51      | ng    | # 95     |
| 81) Benzo(a)anthracene        | 21.298 | 228  | 161139   | 3.44      | ng    | 95       |
| 82) 3,3'-Dichlorobenzidine    | 21.251 | 252  | 586      | Below Cal | #     | 34       |
| 83) Chrysene                  | 21.351 | 228  | 177903   | 4.01      | ng    | # 96     |
| 87) Indeno(1,2,3-cd)pyrene    | 26.186 | 276  | 163280   | 3.04      | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 22.980 | 252  | 289701   | 5.99      | ng    | # 95     |
| 89) Benzo(k)fluoranthene      | 22.980 | 252  | 289701   | 6.02      | ng    | # 95     |
| 90) Benzo(a)pyrene            | 23.598 | 252  | 191309   | 4.72      | ng    | # 95     |
| 92) Benzo(g,h,i)perylene      | 26.956 | 276  | 159145   | 3.64      | ng    | 98       |
| -----                         |        |      |          |           |       |          |

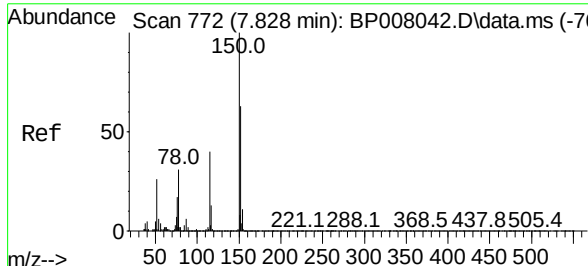
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP112021\  
Data File : BP008071.D  
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Sample : M4762-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_P  
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RBR-251674

Quant Time: Nov 22 05:35:28 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP111921.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Nov 20 00:21:11 2021  
Response via : Initial Calibration

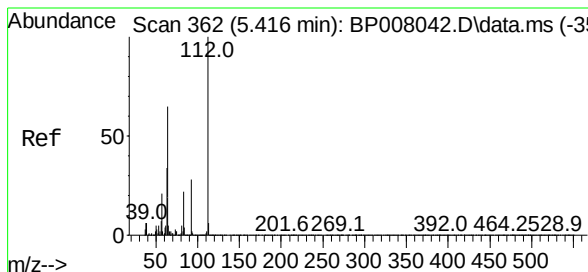
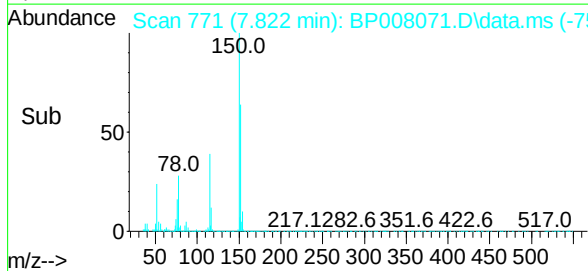
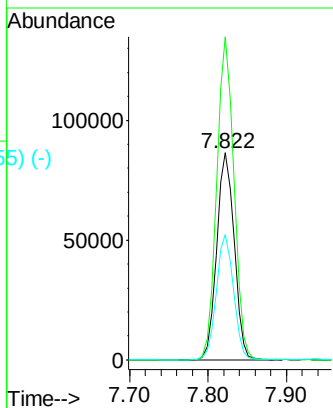
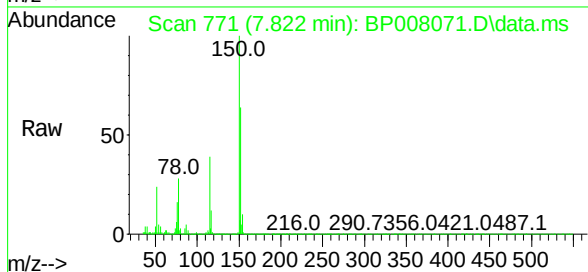




Scan 772 (7.828 min): BP008042.D\data.ms (-763) #1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.822 min Scan#  
 Delta R.T. -0.006 min  
 Lab File: BP008071.D  
 Acq: 20 Nov 2021 22:46

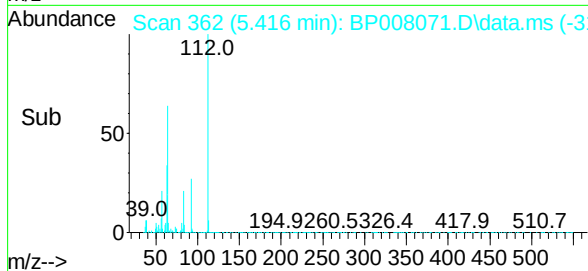
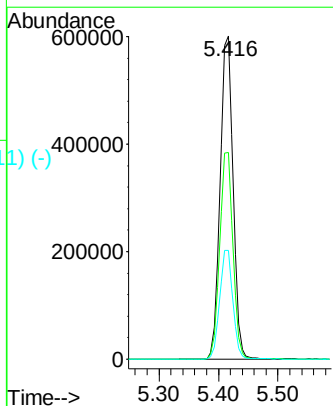
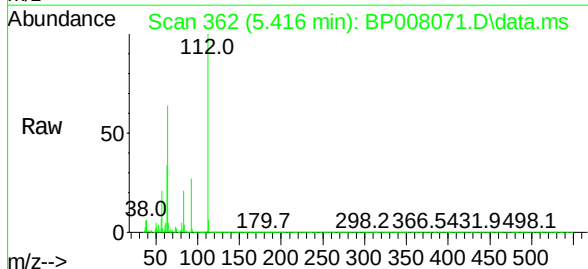
Instrument :  
 BNA\_P  
 ClientSampleId :  
 RBR-251674

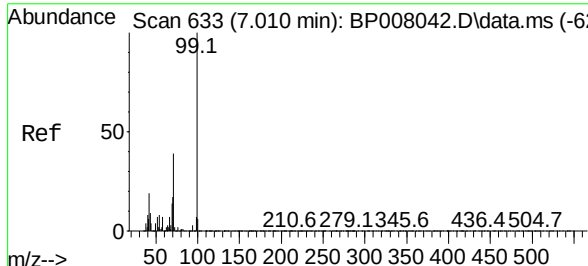
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 152   | Resp: | 133750 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 150      | 155.7 | 126.5 | 189.7  |
| 115      | 60.4  | 50.6  | 75.8   |



Scan 362 (5.416 min): BP008042.D\data.ms (-350) #5  
 2-Fluorophenol  
 Concen: 115.34 ng  
 RT: 5.416 min Scan# 362  
 Delta R.T. 0.000 min  
 Lab File: BP008071.D  
 Acq: 20 Nov 2021 22:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 902558 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 64       | 64.0  | 51.7  | 77.5   |
| 63       | 33.7  | 27.4  | 41.0   |





Phenol-d6

Concen: 107.84 ng

RT: 7.005 min Scan#

Delta R.T. -0.005 min

Lab File: BP008071.D

Acq: 20 Nov 2021 22:46

Instrument :

BNA\_P

ClientSampleId :

RBR-251674

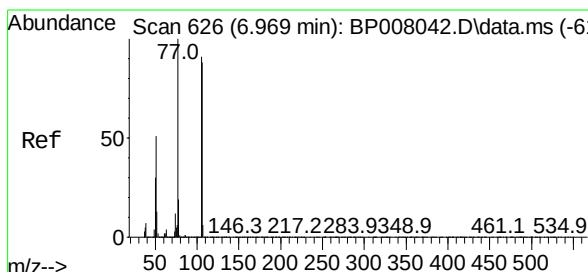
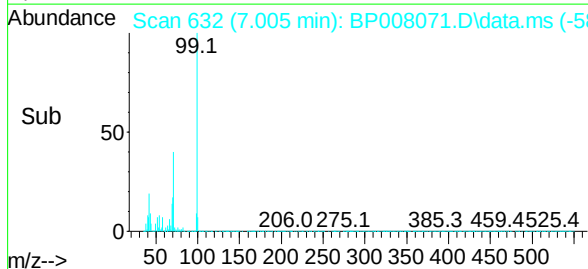
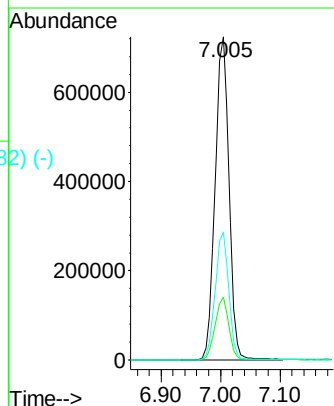
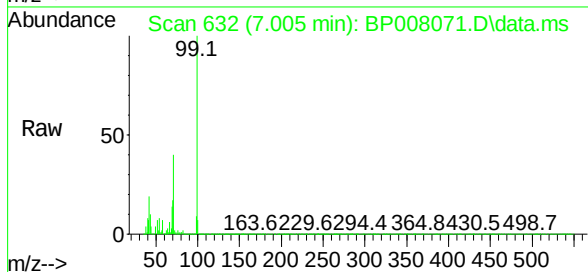
Tgt Ion: 99 Resp: 1169751

Ion Ratio Lower Upper

99 100

42 19.3 15.4 23.2

71 39.5 31.0 46.6



Benzaldehyde

Concen: Below Cal

RT: 6.963 min Scan# 625

Delta R.T. -0.006 min

Lab File: BP008071.D

Acq: 20 Nov 2021 22:46

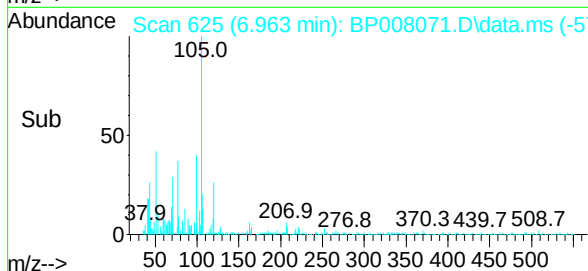
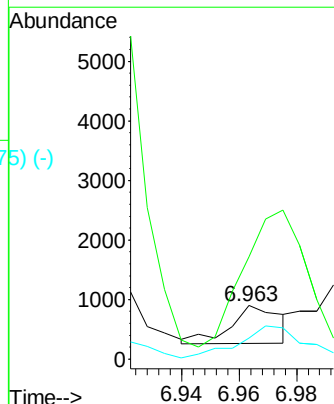
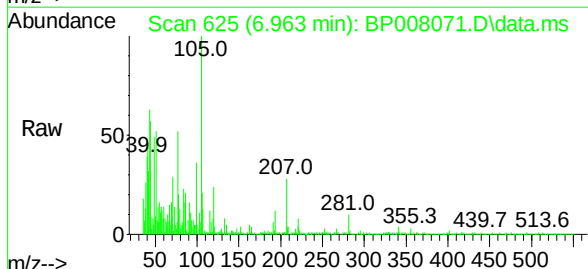
Tgt Ion: 77 Resp: 776

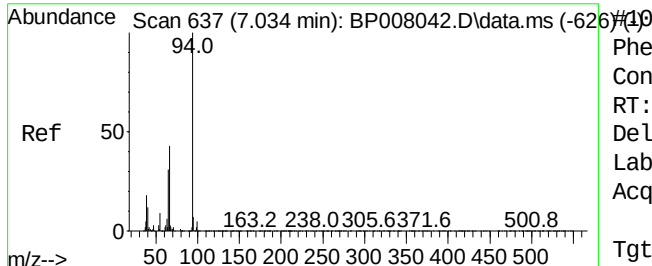
Ion Ratio Lower Upper

77 100

105 191.6 71.5 111.5#

106 39.7 67.9 107.9#





Phenol

Concen: 2.71 ng

RT: 7.028 min Scan#

Delta R.T. -0.006 min

Lab File: BP008071.D

Acq: 20 Nov 2021 22:46

Instrument :

BNP\_P

ClientSampleId :

RBR-251674

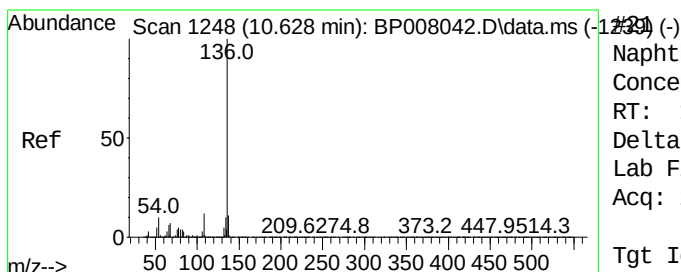
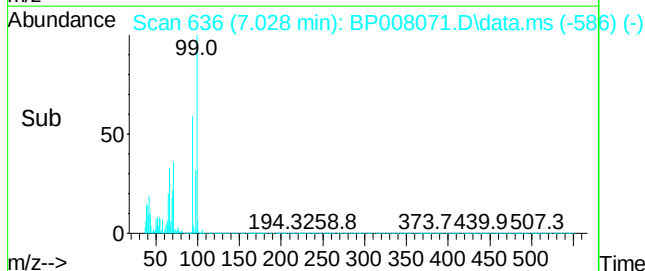
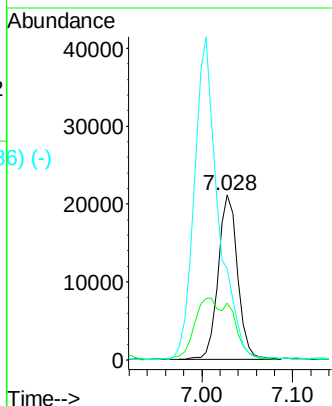
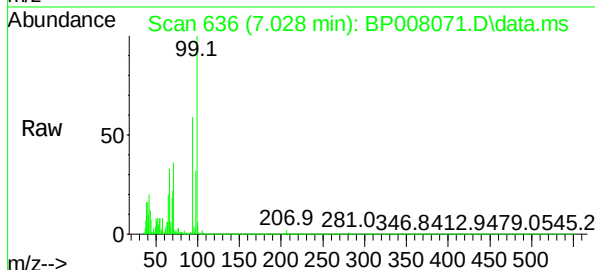
Tgt Ion: 94 Resp: 31477

Ion Ratio Lower Upper

94 100

65 34.3 11.5 51.5

66 55.3 23.5 63.5



Naphthalene-d8

Concen: 20.00 ng

RT: 10.616 min Scan# 1246

Delta R.T. -0.012 min

Lab File: BP008071.D

Acq: 20 Nov 2021 22:46

Tgt Ion:136 Resp: 516101

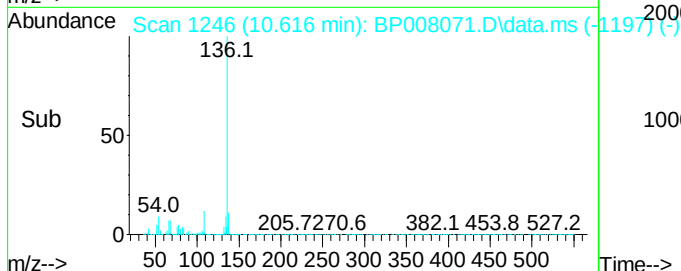
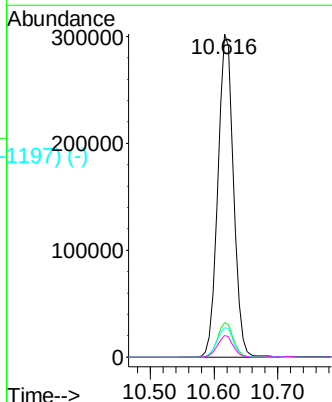
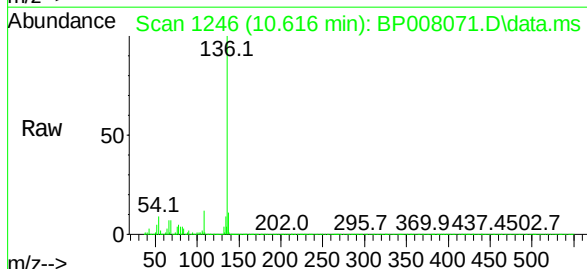
Ion Ratio Lower Upper

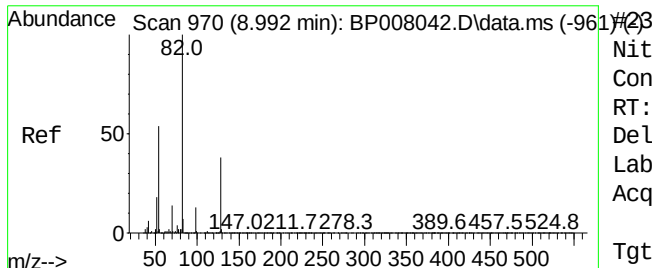
136 100

137 10.8 8.7 13.1

54 9.0 8.0 12.0

68 6.8 5.2 7.8





Nitrobenzene-d5

Concen: 69.84 ng

RT: 8.981 min Scan# 968

Delta R.T. -0.011 min

Lab File: BP008071.D

Acq: 20 Nov 2021 22:46

Instrument :

BNA\_P

ClientSampleId :

RBR-251674

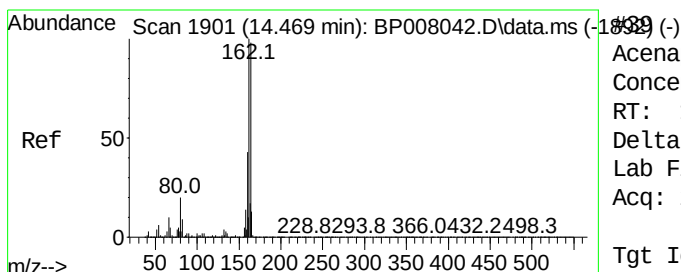
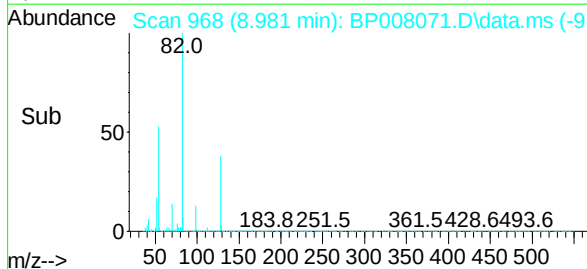
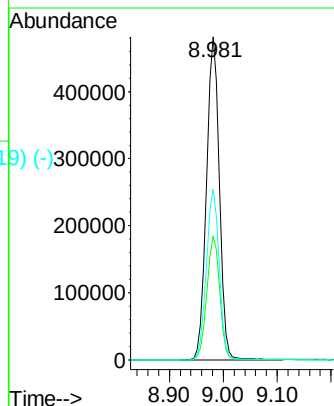
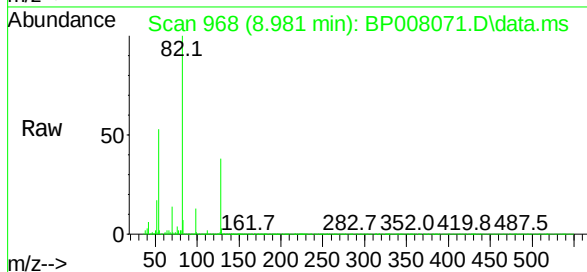
Tgt Ion: 82 Resp: 794503

Ion Ratio Lower Upper

82 100

128 38.3 30.2 45.2

54 52.9 43.1 64.7



Acenaphthene-d10

Concen: 20.00 ng

RT: 14.463 min Scan# 1900

Delta R.T. -0.006 min

Lab File: BP008071.D

Acq: 20 Nov 2021 22:46

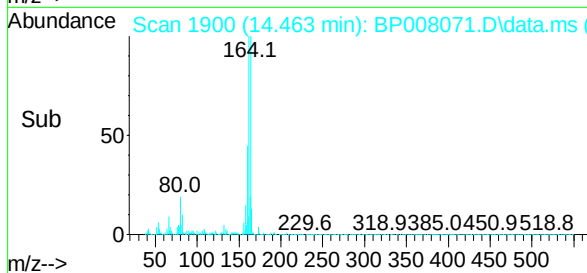
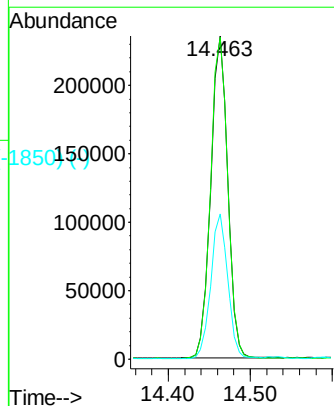
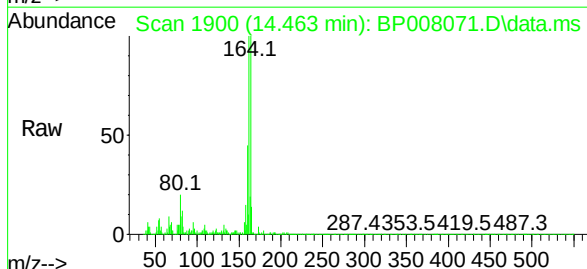
Tgt Ion: 164 Resp: 340886

Ion Ratio Lower Upper

164 100

162 99.5 81.8 122.8

160 44.9 35.1 52.7



Abundance Scan 2156 (15.969 min): BP008042.D\data.ms (-2148) (-)

2,4,6-Tribromophenol

Concen: 108.78 ng

RT: 15.957 min Scan# 1

Delta R.T. -0.012 min

Lab File: BP008071.D

Acq: 20 Nov 2021 22:46

Instrument :

BNA\_P

ClientSampleId :

RBR-251674

Ref 50 62.0 140.8 221.8 329.8 400.0464.6530.6

m/z--> 50 100 150 200 250 300 350 400 450 500

Tgt Ion:330 Resp: 469263

Ion Ratio Lower Upper

330 100

332 97.2 78.0 117.0

141 32.8 29.6 44.4

Abundance Scan 2154 (15.957 min): BP008071.D\data.ms

Raw 50 62.0 142.9 221.9 329.8 396.1461.0526.9

m/z--> 50 100 150 200 250 300 350 400 450 500

Abundance

300000 15.957

200000

100000

0

Time--> 15.90 16.00

Abundance Scan 2154 (15.957 min): BP008071.D\data.ms (-2105) (-)

Sub 50 62.0 140.9 221.9 329.8 396.0461.0526.2

m/z--> 50 100 150 200 250 300 350 400 450 500

Abundance Scan 1667 (13.092 min): BP008042.D\data.ms (-1655) (-)

2-Fluorobiphenyl

Concen: 79.21 ng

RT: 13.087 min Scan# 1666

Delta R.T. -0.005 min

Lab File: BP008071.D

Acq: 20 Nov 2021 22:46

Tgt Ion:172 Resp: 1724384

Ion Ratio Lower Upper

172 100

171 34.7 28.5 42.7

170 23.6 19.0 28.4

Abundance Scan 1666 (13.087 min): BP008071.D\data.ms

Raw 50 85.0 172.1 297.0362.2430.7495.4

m/z--> 50 100 150 200 250 300 350 400 450 500

Abundance

1000000 13.087

800000

600000

400000

200000

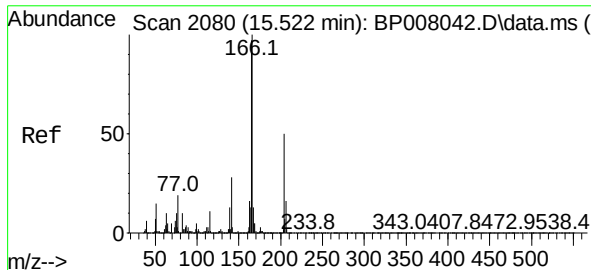
0

Time--> 13.00 13.10 13.20

Abundance Scan 1666 (13.087 min): BP008071.D\data.ms (-1616) (-)

Sub 50 85.0 172.1 238.4 350.6420.9486.0

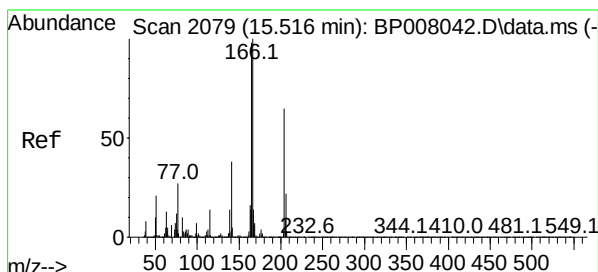
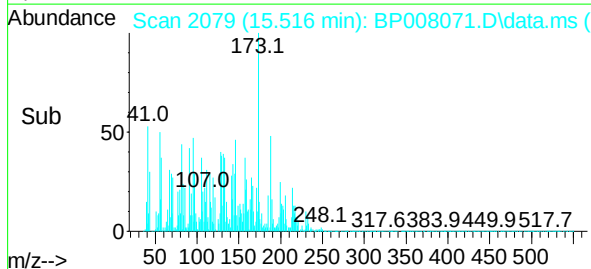
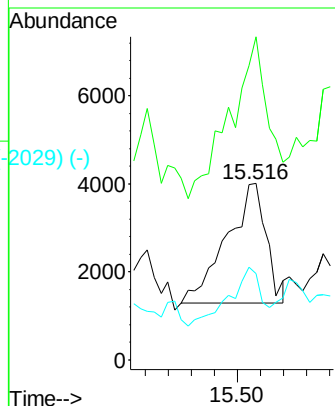
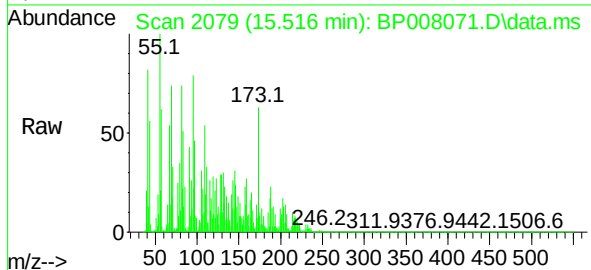
m/z--> 50 100 150 200 250 300 350 400 450 500



Fluorene  
 Concen: Below Cal  
 RT: 15.516 min Scan# 2075  
 Delta R.T. -0.006 min  
 Lab File: BP008071.D  
 Acq: 20 Nov 2021 22:46

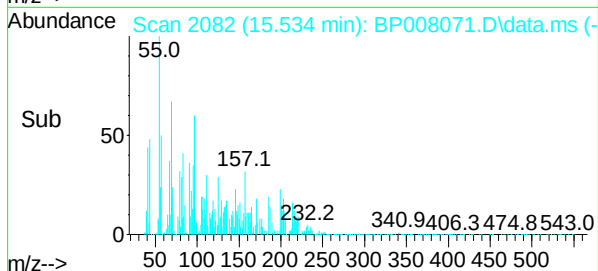
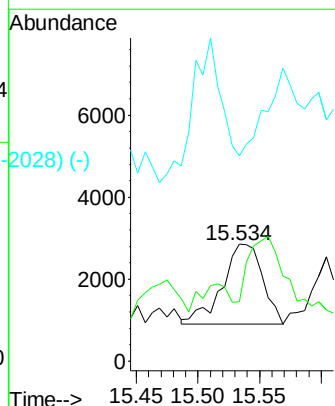
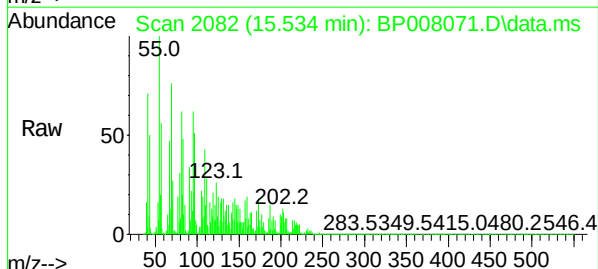
Instrument :  
 BNA\_P  
 ClientSampleId :  
 RBR-251674

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 6508   |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 183.1 | 77.4  | 116.0# |
| 167       | 48.9  | 10.7  | 16.1#  |



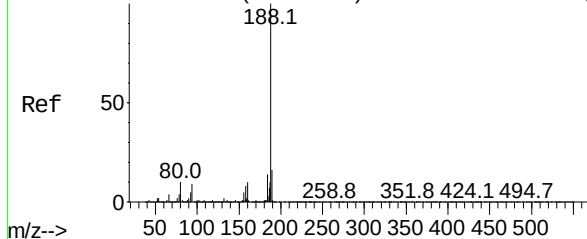
4-Chlorophenyl-phenylether  
 Concen: Below Cal  
 RT: 15.534 min Scan# 2082  
 Delta R.T. 0.018 min  
 Lab File: BP008071.D  
 Acq: 20 Nov 2021 22:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 204   | Resp: | 4447  |
| Ion Ratio | Lower | Upper |       |
| 204       | 100   |       |       |
| 206       | 50.9  | 27.3  | 40.9# |
| 141       | 175.8 | 46.7  | 70.1# |





Abundance Scan 2370 (17.227 min): BP008042.D\data.ms (-2369) (-)



Phenanthrene-d10

Concen: 20.00 ng

RT: 17.222 min Scan# 2369

Delta R.T. -0.005 min

Lab File: BP008071.D

Acq: 20 Nov 2021 22:46

Instrument :

BNA\_P

ClientSampleId :

RBR-251674

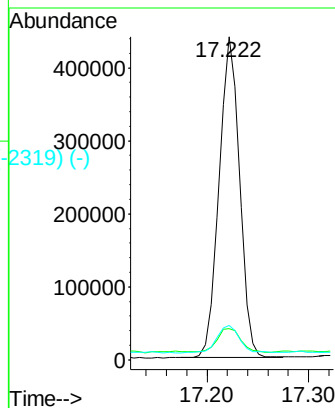
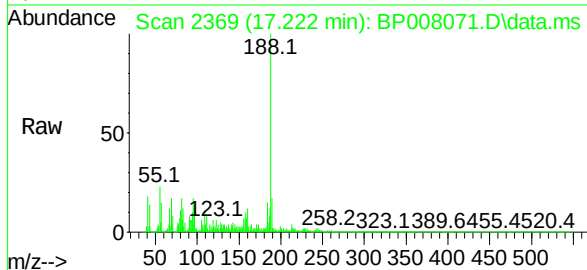
Tgt Ion:188 Resp: 618043

Ion Ratio Lower Upper

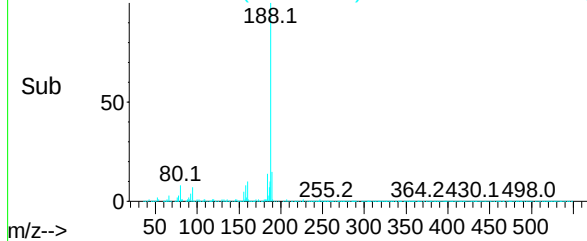
188 100

94 9.7 7.1 10.7

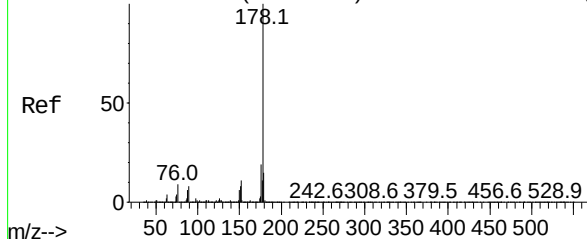
80 10.6 8.1 12.1



Abundance Scan 2369 (17.222 min): BP008071.D\data.ms (-2319) (-)



Abundance Scan 2377 (17.269 min): BP008042.D\data.ms (-2376) (-)



Phenanthrene

Concen: 2.89 ng

RT: 17.263 min Scan# 2376

Delta R.T. -0.006 min

Lab File: BP008071.D

Acq: 20 Nov 2021 22:46

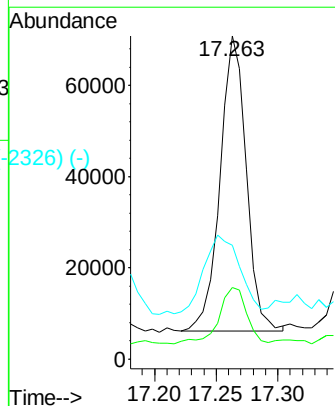
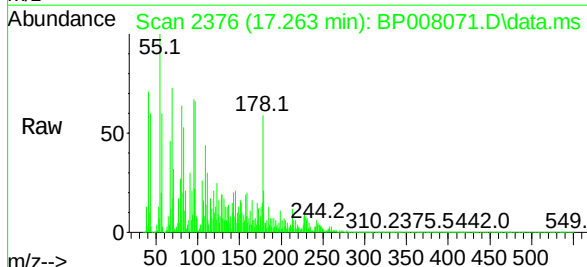
Tgt Ion:178 Resp: 96273

Ion Ratio Lower Upper

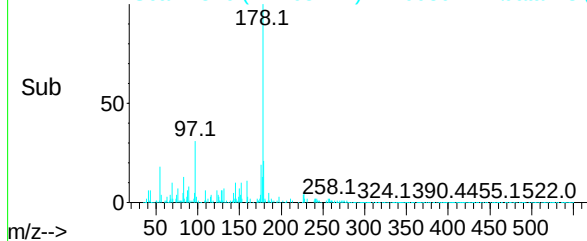
178 100

176 22.2 15.6 23.4

179 35.3 12.4 18.6#



Abundance Scan 2376 (17.263 min): BP008071.D\data.ms (-2326) (-)



Abundance Scan 2712 (19.239 min): BP008042.D\data.ms (-2705) (-)

Fluoranthene

Concen: 6.67 ng

RT: 19.239 min Scan# 1

Delta R.T. 0.000 min

Lab File: BP008071.D

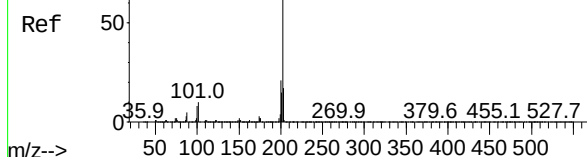
Acq: 20 Nov 2021 22:46

Instrument :

BNA\_P

ClientSampleId :

RBR-251674



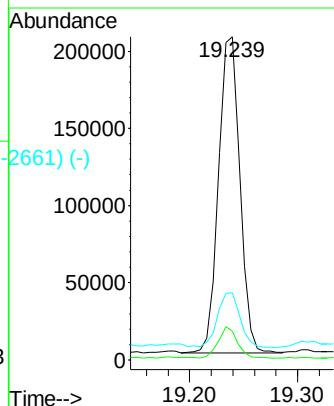
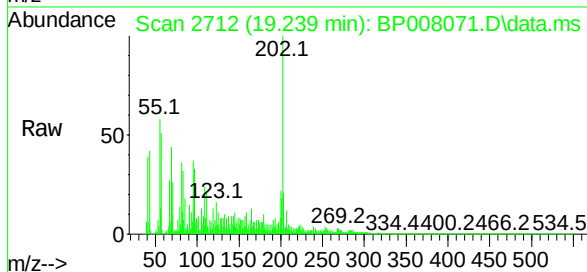
Tgt Ion:202 Resp: 286213

Ion Ratio Lower Upper

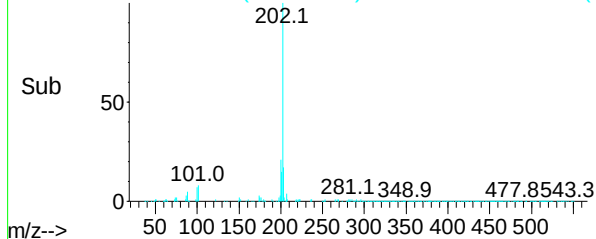
202 100

101 8.8 0.0 29.5

203 20.8 0.0 37.3



Abundance Scan 2712 (19.239 min): BP008071.D\data.ms (-2661) (-)



Abundance Scan 3066 (21.321 min): BP008042.D\data.ms (-3055) (-)

Chrysene-d12

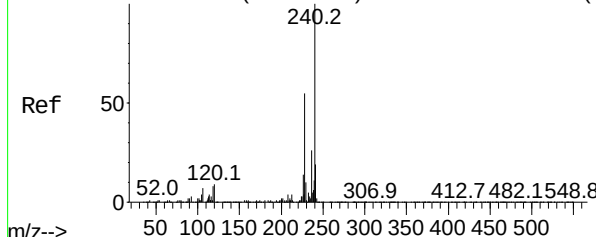
Concen: 20.00 ng

RT: 21.316 min Scan# 3065

Delta R.T. -0.005 min

Lab File: BP008071.D

Acq: 20 Nov 2021 22:46



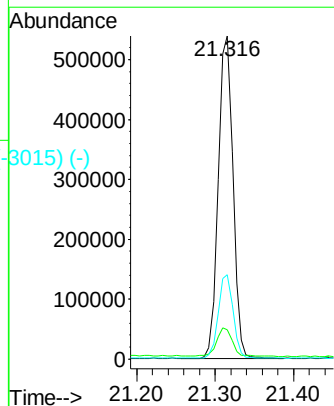
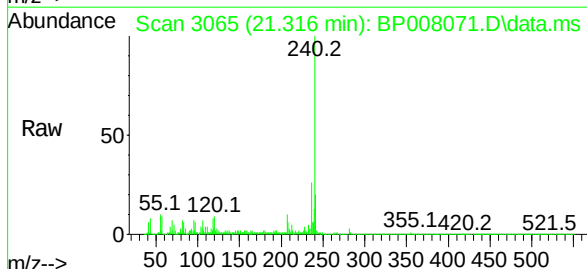
Tgt Ion:240 Resp: 697965

Ion Ratio Lower Upper

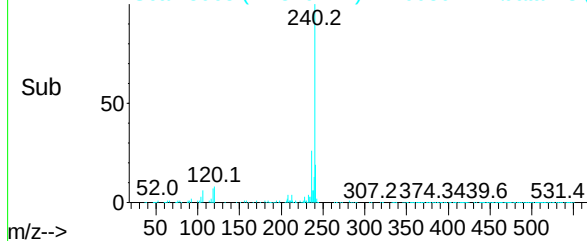
240 100

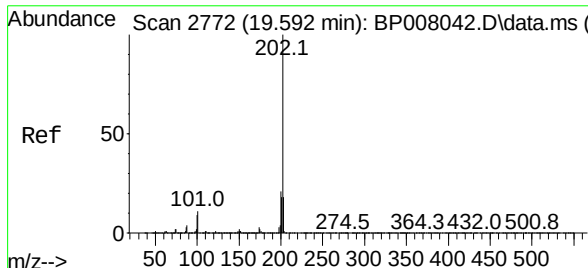
120 9.0 7.4 11.2

236 26.1 21.0 31.4



Abundance Scan 3065 (21.316 min): BP008071.D\data.ms (-3015) (-)

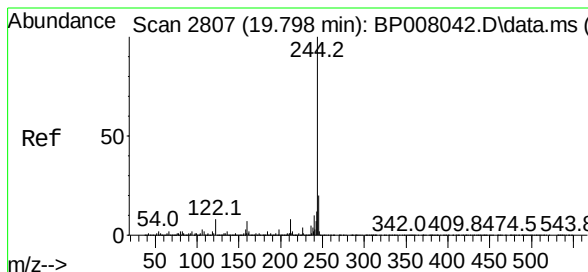
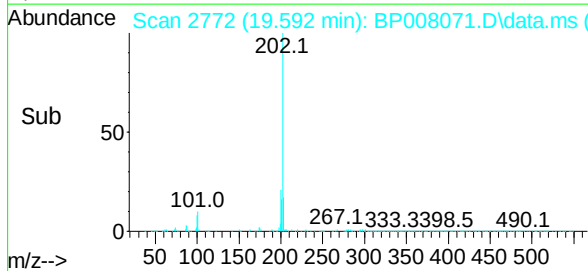
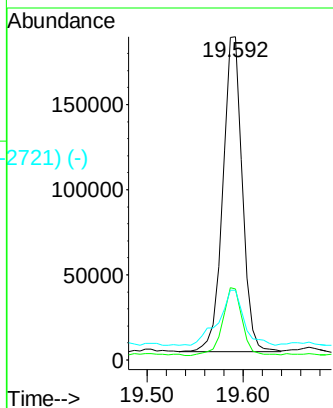
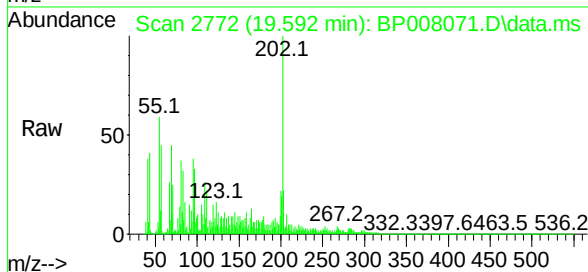




Pyrene  
Concen: 5.51 ng  
RT: 19.592 min Scan# 2772  
Delta R.T. 0.000 min  
Lab File: BP008071.D  
Acq: 20 Nov 2021 22:46

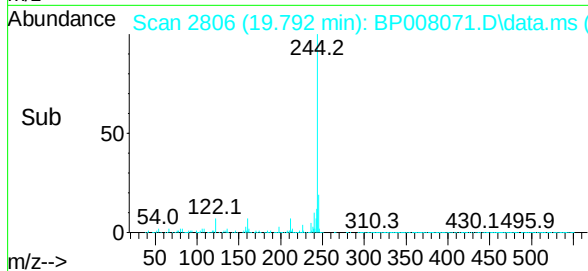
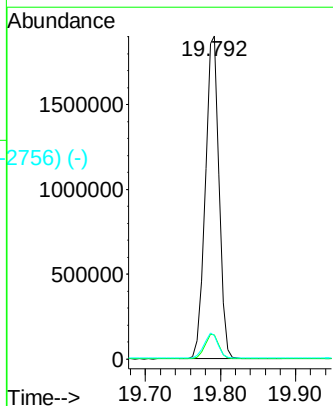
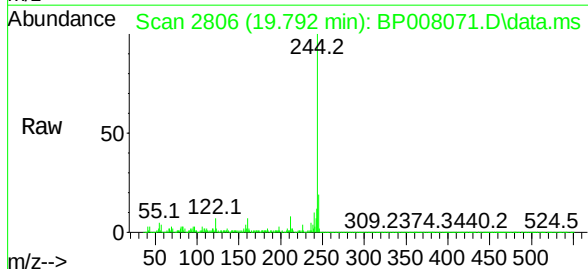
Instrument :  
BNA\_P  
ClientSampleId :  
RBR-251674

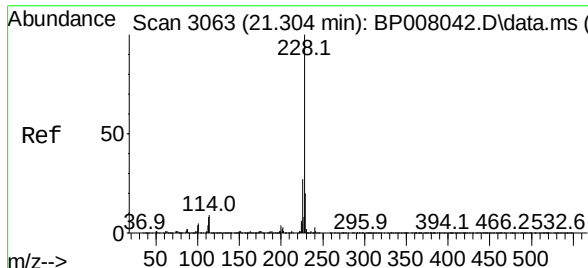
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.9  | 16.9  | 25.3  |
| 203     | 21.6  | 14.2  | 21.2# |



Terphenyl-d14  
Concen: 69.14 ng  
RT: 19.792 min Scan# 2806  
Delta R.T. -0.006 min  
Lab File: BP008071.D  
Acq: 20 Nov 2021 22:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.6   | 6.3   | 9.5   |
| 122     | 7.4   | 6.1   | 9.1   |

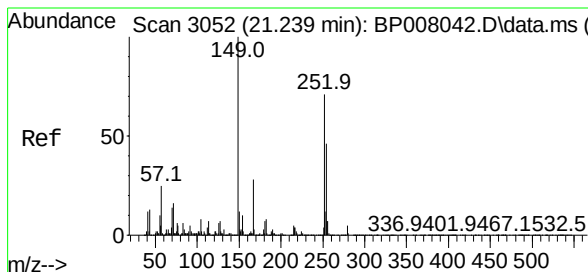
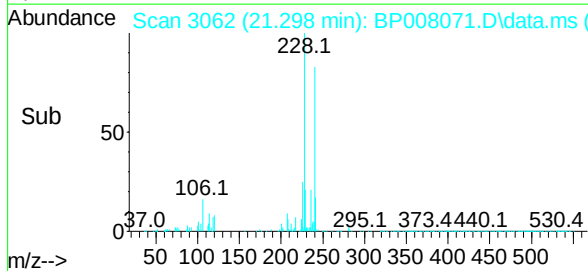
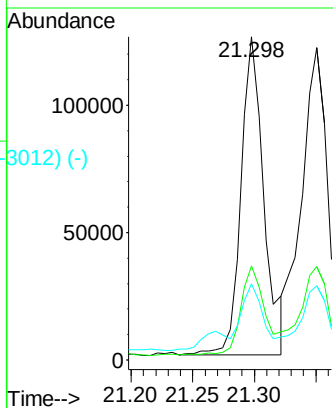
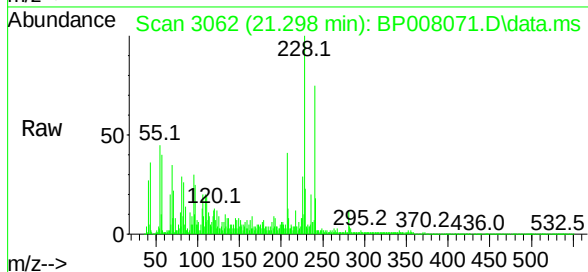




Benzo(a)anthracene  
 Concen: 3.44 ng  
 RT: 21.298 min Scan# 3053  
 Delta R.T. -0.006 min  
 Lab File: BP008071.D  
 Acq: 20 Nov 2021 22:46

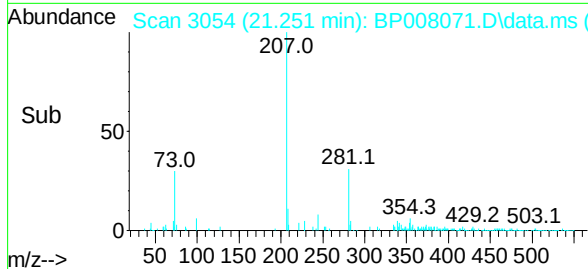
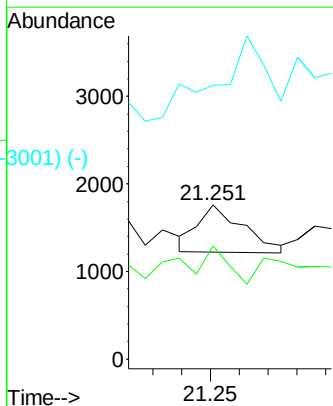
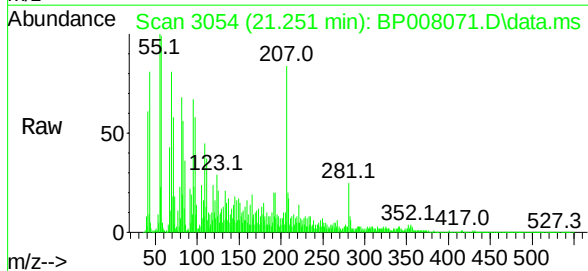
Instrument :  
 BNA\_P  
 ClientSampleId :  
 RBR-251674

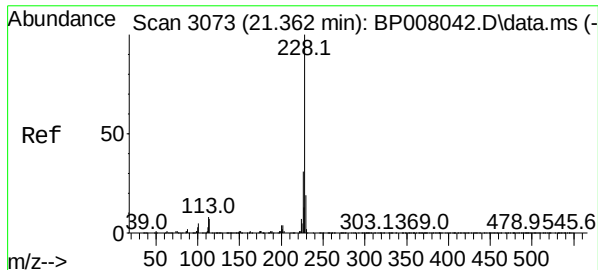
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 161139 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 226      | 29.2  | 21.8  | 32.6   |
| 229      | 23.5  | 16.1  | 24.1   |



3,3'-Dichlorobenzidine  
 Concen: Below Cal  
 RT: 21.251 min Scan# 3054  
 Delta R.T. 0.012 min  
 Lab File: BP008071.D  
 Acq: 20 Nov 2021 22:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 586   |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 254      | 73.2  | 51.8  | 77.8  |
| 126      | 177.4 | 7.2   | 10.8# |

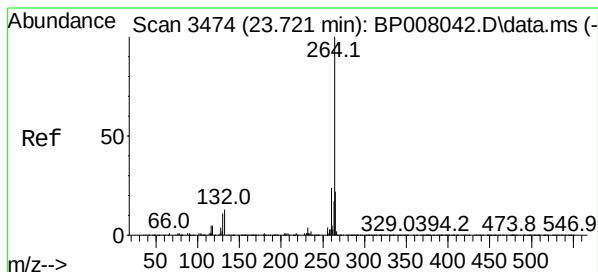
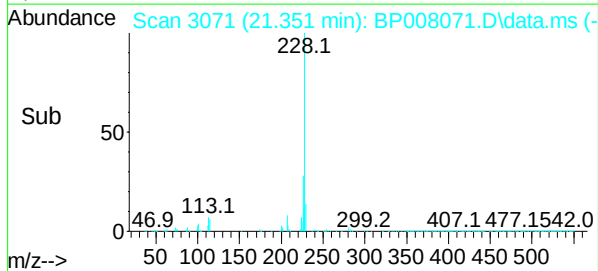
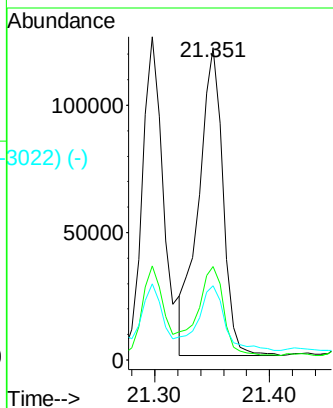
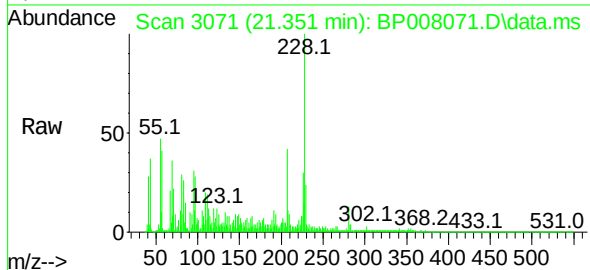




Scan 3073 (21.362 min): BP008042.D\data.ms (-3068) (-)  
 Chrysene  
 Concen: 4.01 ng  
 RT: 21.351 min Scan# 1  
 Delta R.T. -0.011 min  
 Lab File: BP008071.D  
 Acq: 20 Nov 2021 22:46

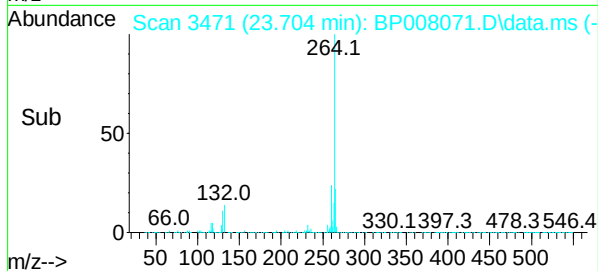
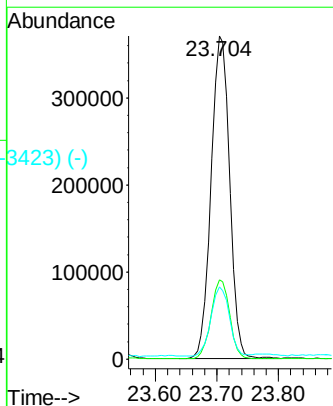
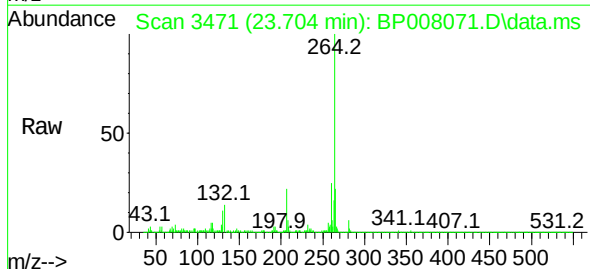
Instrument :  
 BNA\_P  
 ClientSampleId :  
 RBR-251674

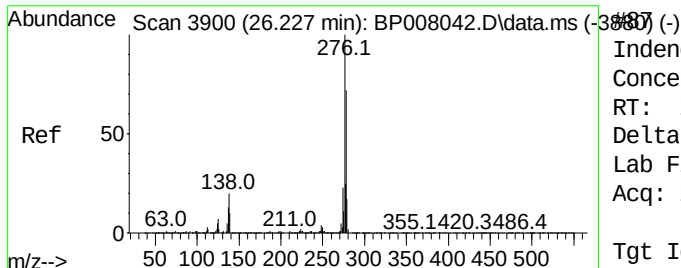
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 177903 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 226      | 29.9  | 24.5  | 36.7   |
| 229      | 23.7  | 15.5  | 23.3#  |



Scan 3474 (23.721 min): BP008042.D\data.ms (-3486) (-)  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 23.704 min Scan# 3471  
 Delta R.T. -0.017 min  
 Lab File: BP008071.D  
 Acq: 20 Nov 2021 22:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 773575 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.6  | 19.0  | 28.6   |
| 265      | 22.4  | 17.7  | 26.5   |

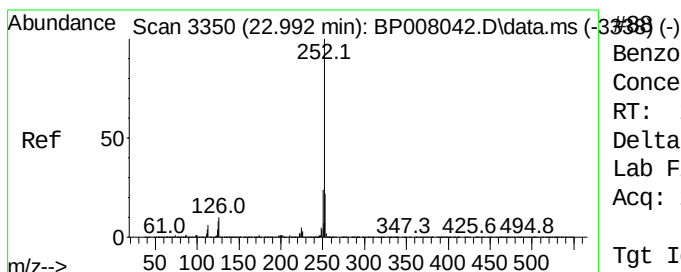
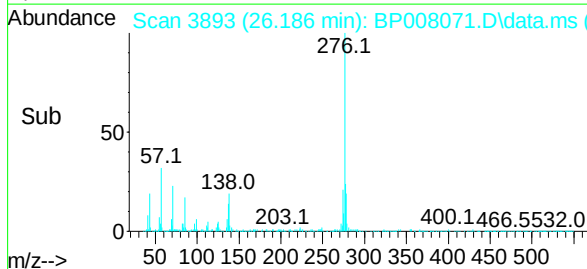
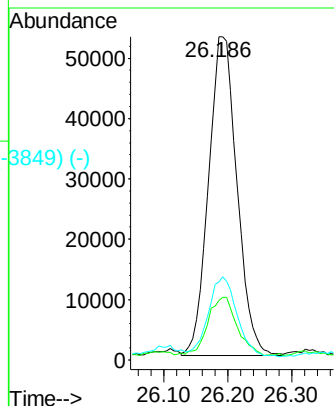
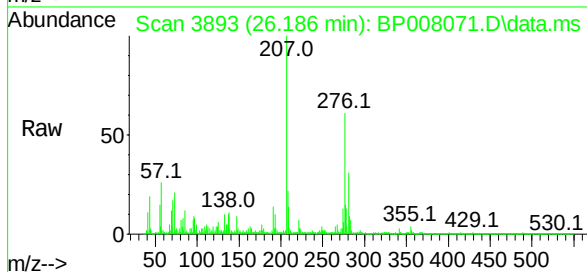




Indeno(1,2,3-cd)pyrene  
Concen: 3.04 ng  
RT: 26.186 min Scan# 3893  
Delta R.T. -0.041 min  
Lab File: BP008071.D  
Acq: 20 Nov 2021 22:46

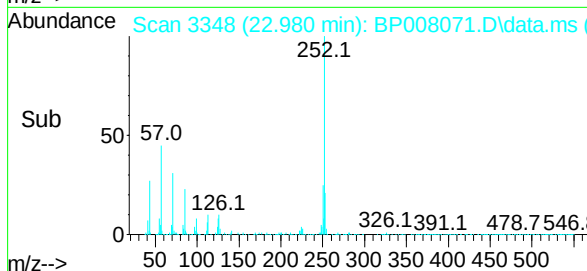
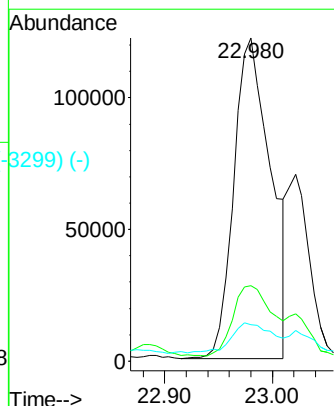
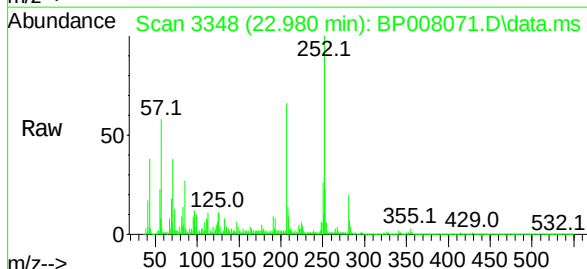
Instrument :  
BNA\_P  
ClientSampleId :  
RBR-251674

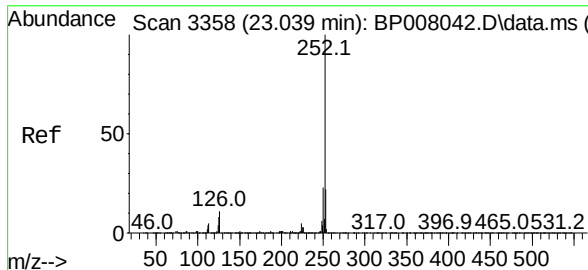
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 276   | Resp: | 163280 |
| Ion      | Ratio | Lower | Upper  |
| 276      | 100   |       |        |
| 138      | 18.2  | 16.5  | 24.7   |
| 277      | 25.1  | 20.2  | 30.4   |



Benzo(b)fluoranthene  
Concen: 5.99 ng  
RT: 22.980 min Scan# 3348  
Delta R.T. -0.012 min  
Lab File: BP008071.D  
Acq: 20 Nov 2021 22:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 289701 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 23.3  | 17.4  | 26.2   |
| 125      | 11.3  | 6.1   | 9.1#   |

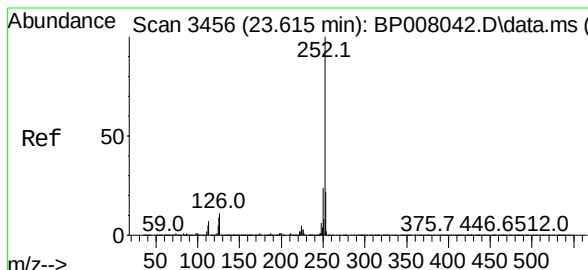
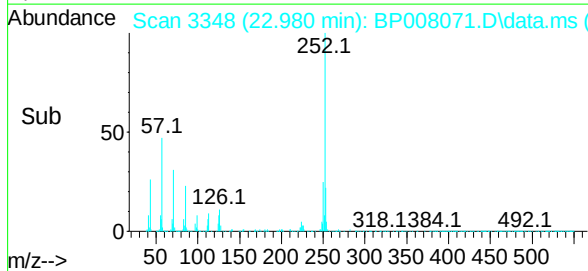
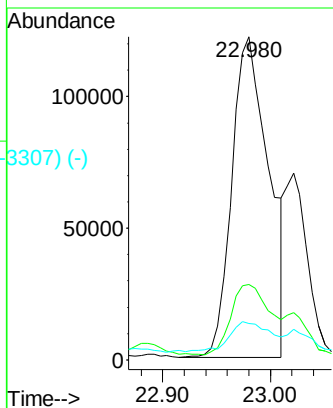
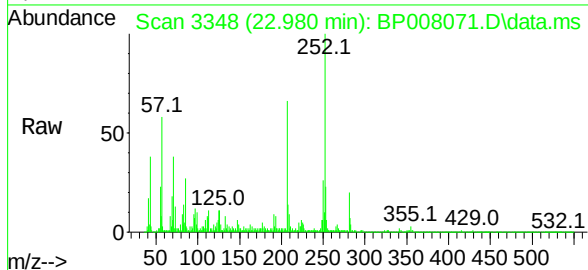




Benzo(k)fluoranthene  
Concen: 6.02 ng  
RT: 22.980 min Scan# 3358  
Delta R.T. -0.059 min  
Lab File: BP008071.D  
Acq: 20 Nov 2021 22:46

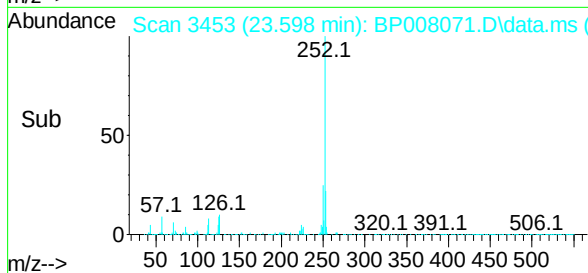
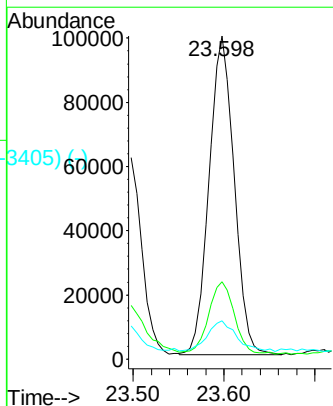
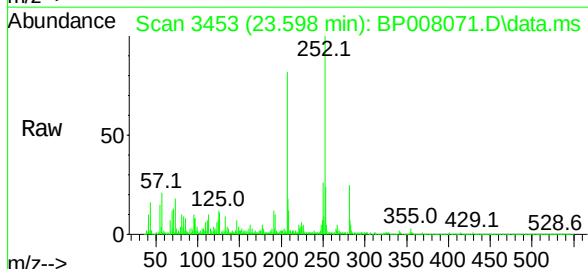
Instrument :  
BNA\_P  
ClientSampleId :  
RBR-251674

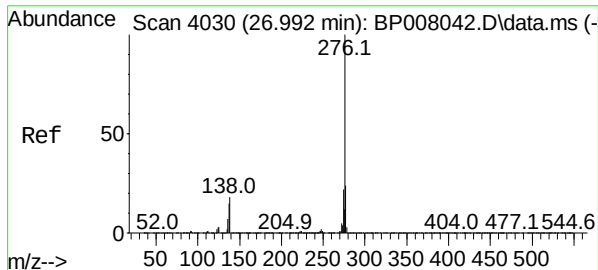
Tgt Ion:252 Resp: 289701  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.4 26.0  
125 11.3 6.2 9.4#



Benzo(a)pyrene  
Concen: 4.72 ng  
RT: 23.598 min Scan# 3453  
Delta R.T. -0.017 min  
Lab File: BP008071.D  
Acq: 20 Nov 2021 22:46

Tgt Ion:252 Resp: 191309  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.4 26.2  
125 11.8 7.4 11.2#





Benzo(g,h,i)perylene  
 Concen: 3.64 ng  
 RT: 26.956 min Scan# 4024  
 Delta R.T. -0.036 min  
 Lab File: BP008071.D  
 Acq: 20 Nov 2021 22:46

Instrument :  
 BNA\_P  
 ClientSampleId :  
 RBR-251674

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 276   | Resp: | 159145 |
| Ion      | Ratio | Lower | Upper  |
| 276      | 100   |       |        |
| 277      | 24.6  | 19.0  | 28.6   |
| 138      | 18.4  | 14.2  | 21.2   |

