

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP062420\  
 Data File : BP002527.D  
 Acq On : 24 Jun 2020 17:35  
 Operator : CG/JU  
 Sample : L3089-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 RB47185-RT

Quant Time: Jun 24 18:26:06 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP060520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 24 13:54:06 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.58  | 152  | 237871   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.35 | 136  | 953993   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.23 | 164  | 547219   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 16.99 | 188  | 1071580  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.09 | 240  | 796112   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 23.29 | 264  | 904134   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.20  | 112 | 1439677 | 111.99 | ng | 0.00 |
| 7) Phenol-d6             | 6.78  | 99  | 1916801 | 112.00 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 8.73  | 82  | 1332929 | 83.44  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 15.73 | 330 | 635026  | 121.21 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 12.85 | 172 | 2653401 | 81.53  | ng | 0.00 |
| 79) Terphenyl-d14        | 19.57 | 244 | 3019009 | 103.52 | ng | 0.00 |

## Target Compounds

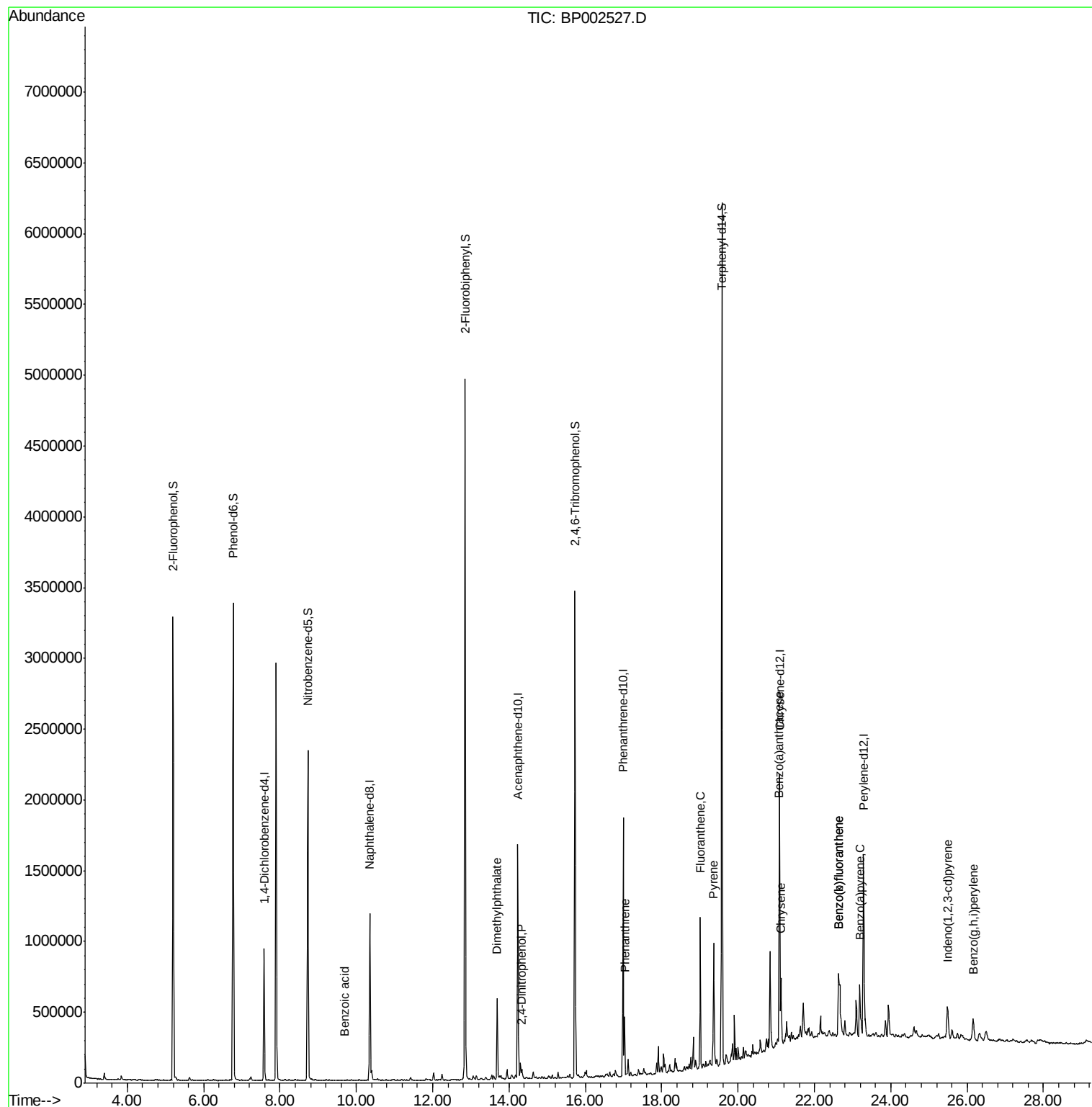
|                                |       |     |        |           |   | Qvalue |
|--------------------------------|-------|-----|--------|-----------|---|--------|
| 9) Benzaldehyde                | 6.74  | 77  | 1380   | Below Cal | # | 44     |
| 32) Benzoic acid               | 9.70  | 122 | 312    | 4.627 ng  | # | 81     |
| 50) Dimethylphthalate          | 13.69 | 163 | 359862 | 9.597 ng  |   | 99     |
| 54) 2,4-Dinitrophenol          | 14.35 | 184 | 53     | 2.797 ng  | # | 1      |
| 61) 4-Chlorophenyl-phenylether | 15.29 | 204 | 53     | Below Cal | # | 1      |
| 71) Phenanthrene               | 17.03 | 178 | 249208 | 4.972 ng  |   | 99     |
| 75) Fluoranthene               | 19.01 | 202 | 596239 | 9.965 ng  |   | 98     |
| 78) Pyrene                     | 19.36 | 202 | 510187 | 10.462 ng |   | 98     |
| 81) Benzo(a)anthracene         | 21.07 | 228 | 244228 | 5.374 ng  |   | 98     |
| 83) Chrysene                   | 21.13 | 228 | 257186 | 5.974 ng  |   | 98     |
| 87) Indeno(1,2,3-cd)pyrene     | 25.49 | 276 | 180995 | 3.201 ng  |   | 99     |
| 88) Benzo(b)fluoranthene       | 22.63 | 252 | 369095 | 7.570 ng  | # | 97     |
| 89) Benzo(k)fluoranthene       | 22.63 | 252 | 369095 | 7.967 ng  | # | 95     |
| 90) Benzo(a)pyrene             | 23.19 | 252 | 245006 | 5.362 ng  |   | 98     |
| 92) Benzo(a,h,i)perylene       | 26.16 | 276 | 171741 | 3.655 ng  |   | 96     |

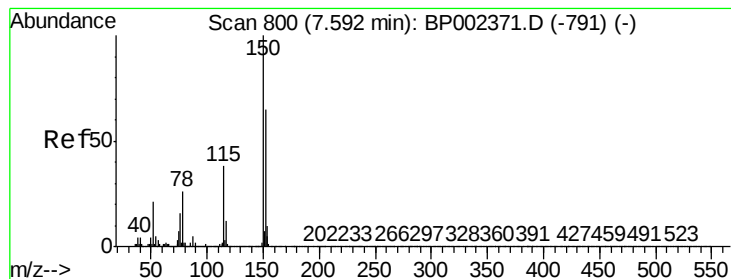
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP062420\  
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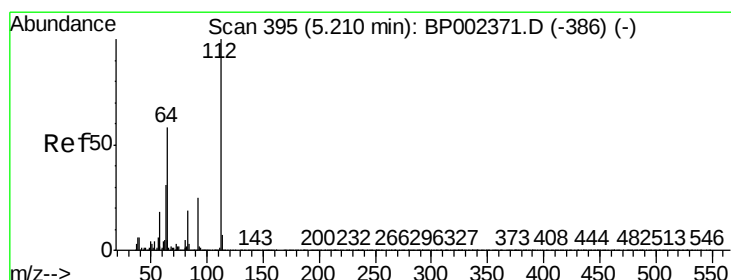
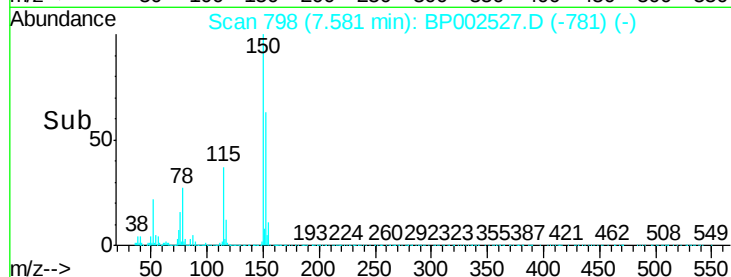
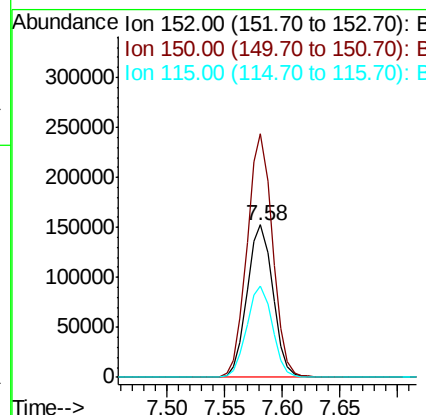
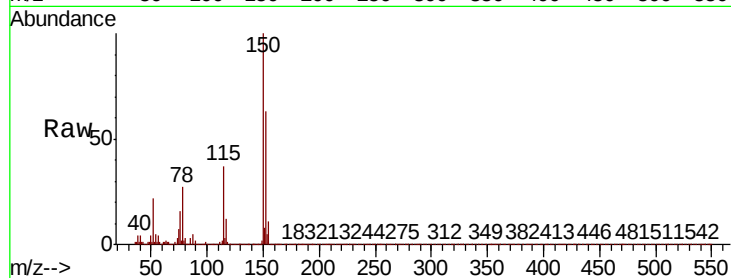


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.58 min Scan# 798  
Delta R.T. 0.00 min  
Lab File: BP002527.D  
Acq: 24 Jun 2020 17:35

Instrument :  
BNA\_P  
ClientSampleId :  
RB47185-RT

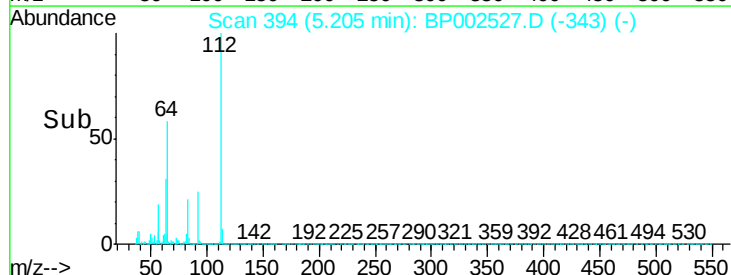
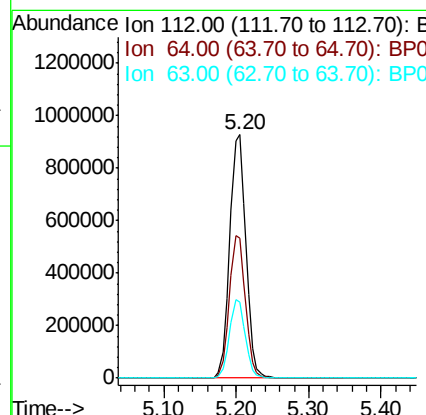
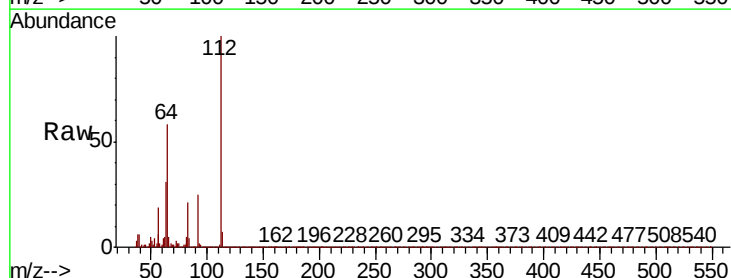
| Tot Ion   | 152   | Resp  | 237871 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 159.6 | 124.4 | 186.6  |
| 115       | 59.8  | 47.8  | 71.6   |

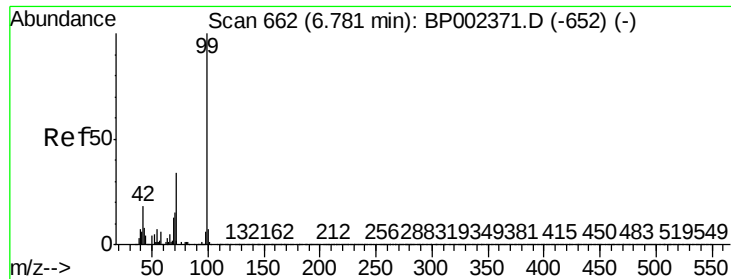


#5

2-Fluorophenol  
Concen: 111.993 ng  
RT: 5.20 min Scan# 394  
Delta R.T. 0.00 min  
Lab File: BP002527.D  
Acq: 24 Jun 2020 17:35

| Tgt Ion   | 112   | Resp  | 1439677 |
|-----------|-------|-------|---------|
| Ion Ratio | Lower | Upper |         |
| 112       | 100   |       |         |
| 64        | 57.5  | 46.4  | 69.6    |
| 63        | 31.2  | 25.0  | 37.6    |





#7

Phenol-d6

Concen: 111.995 ng

RT: 6.78 min Scan# 661

Delta R.T. 0.00 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

Instrument :

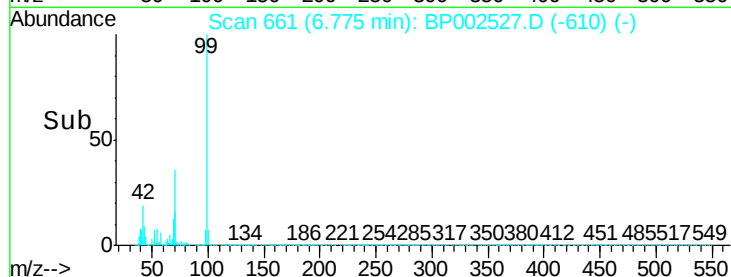
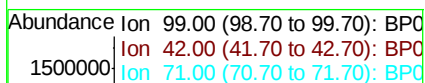
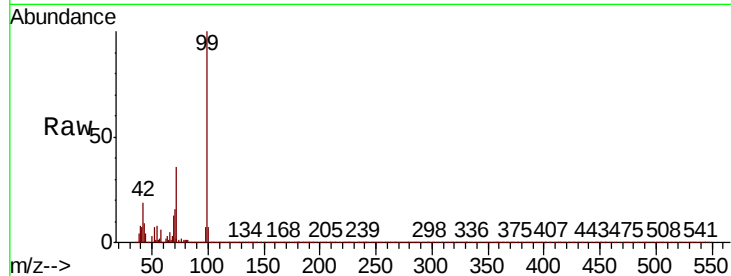
BNA\_P

ClientSampleId :

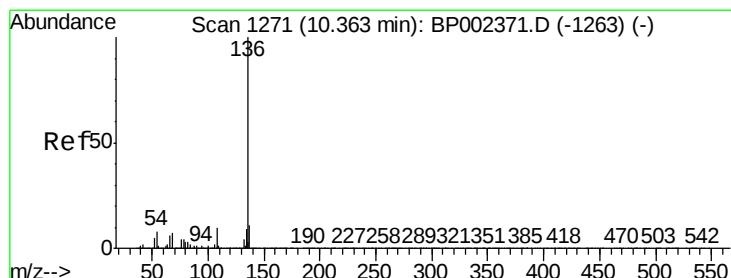
RB47185-RT

Tot Ion: 99 Resp: 1916801

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.4  | 15.3  | 22.9  |
| 71  | 35.6  | 28.2  | 42.2  |



Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.35 min Scan# 1269

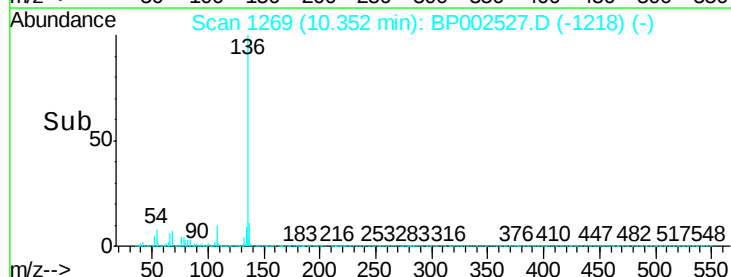
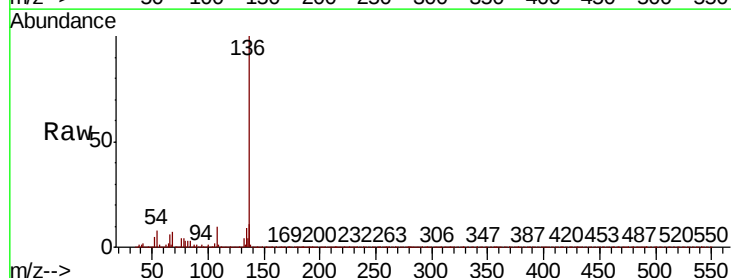
Delta R.T. 0.00 min

Lab File: BP002527.D

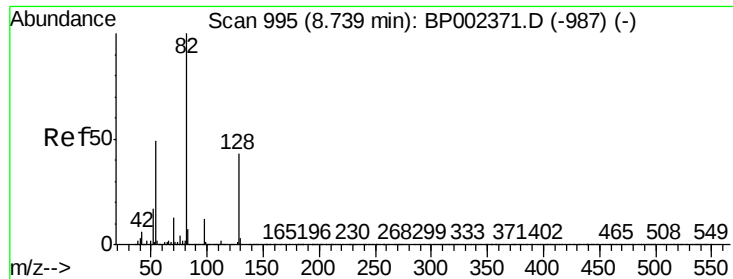
Acq: 24 Jun 2020 17:35

Tgt Ion: 136 Resp: 953993

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.8  | 8.9   | 13.3  |
| 54  | 8.2   | 6.6   | 10.0  |
| 68  | 6.6   | 5.4   | 8.0   |



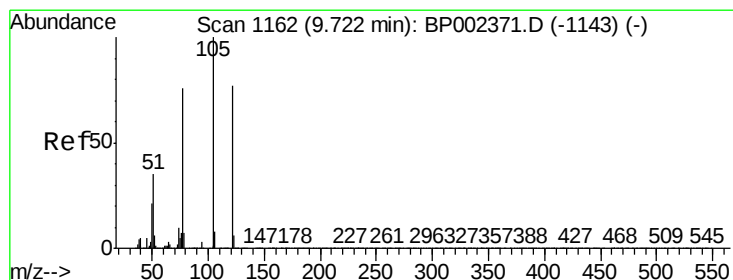
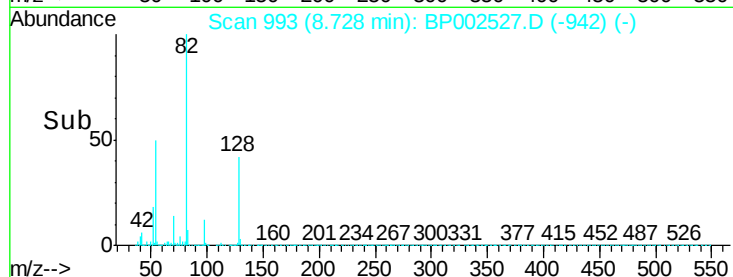
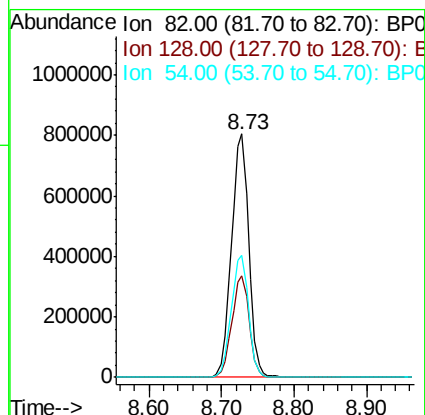
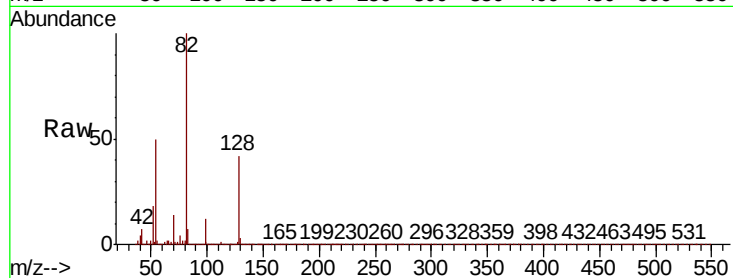
Time-->



#23  
Nitrobenzene-d5  
Concen: 83.440 ng  
RT: 8.73 min Scan# 993  
Delta R.T. 0.00 min  
Lab File: BP002527.D  
Acq: 24 Jun 2020 17:35

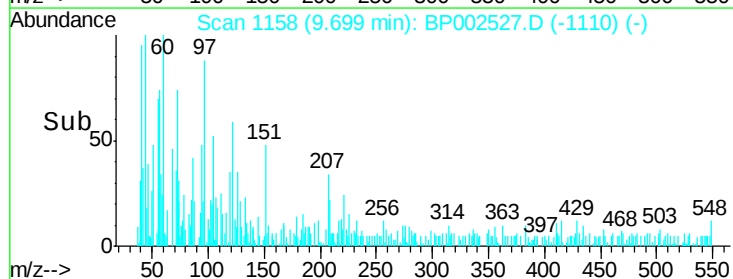
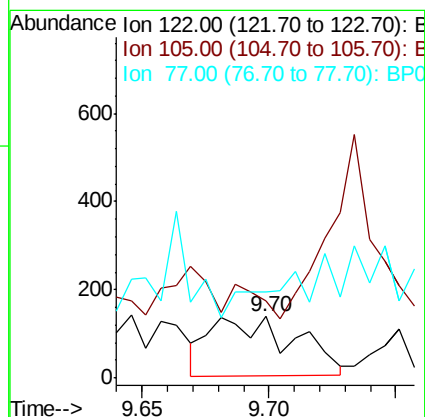
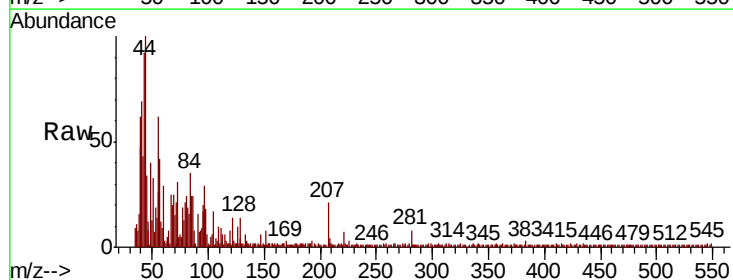
Instrument :  
BNA\_P  
ClientSampleId :  
RB47185-RT

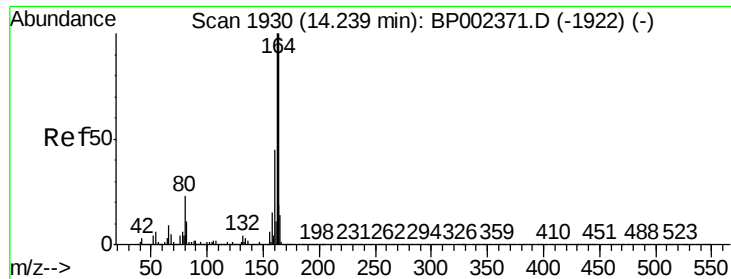
Tot Ion: 82 Resp: 1332929  
Ion Ratio Lower Upper  
82 100  
128 41.7 32.8 49.2  
54 49.9 39.9 59.9



#32  
Benzoic acid  
Concen: 4.627 ng  
RT: 9.70 min Scan# 1158  
Delta R.T. -0.02 min  
Lab File: BP002527.D  
Acq: 24 Jun 2020 17:35

Tgt Ion:122 Resp: 312  
Ion Ratio Lower Upper  
122 100  
105 125.2 105.0 145.0  
77 139.6 76.9 116.9#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.23 min Scan# 1928

Delta R.T. 0.00 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

Instrument :

BNA\_P

ClientSampleId :

RB47185-RT

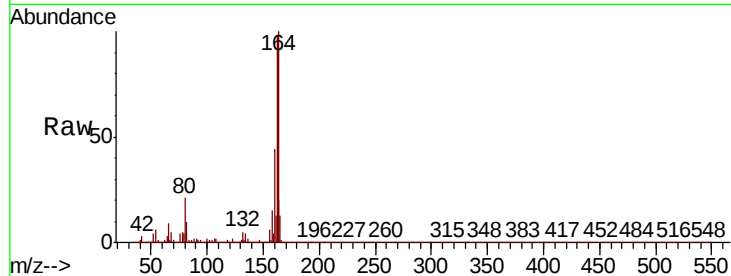
Tot Ion:164 Resp: 547219

Ion Ratio Lower Upper

164 100

162 98.4 80.6 121.0

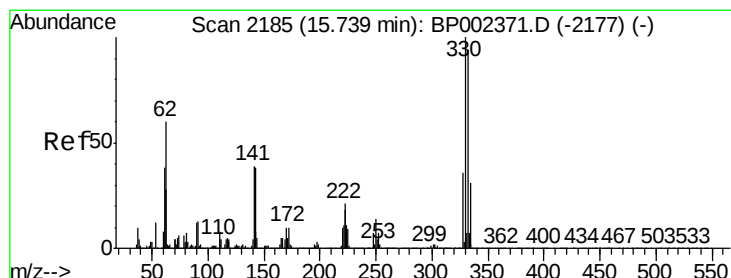
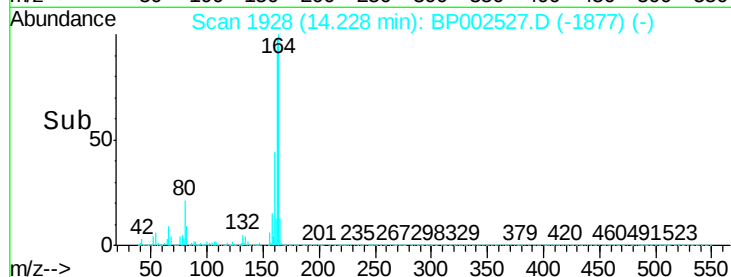
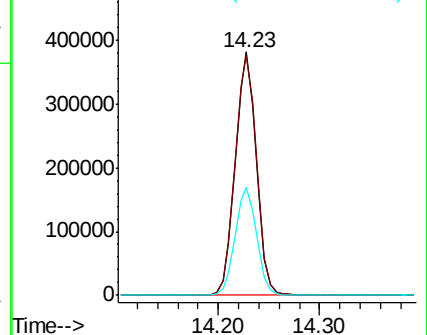
160 44.2 35.4 53.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 121.206 ng

RT: 15.73 min Scan# 2183

Delta R.T. 0.00 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

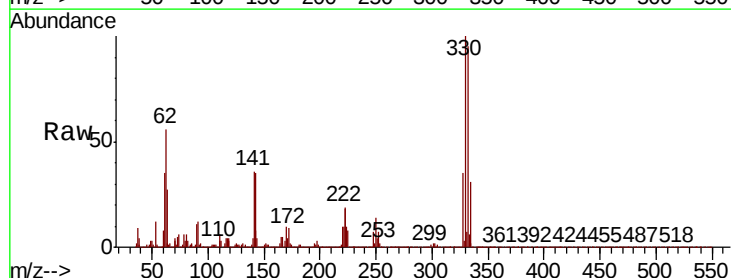
Tgt Ion:330 Resp: 635026

Ion Ratio Lower Upper

330 100

332 95.6 77.2 115.8

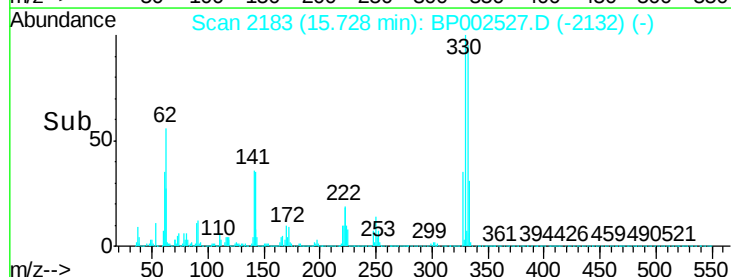
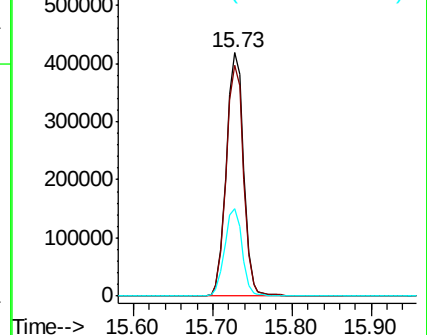
141 36.1 30.4 45.6

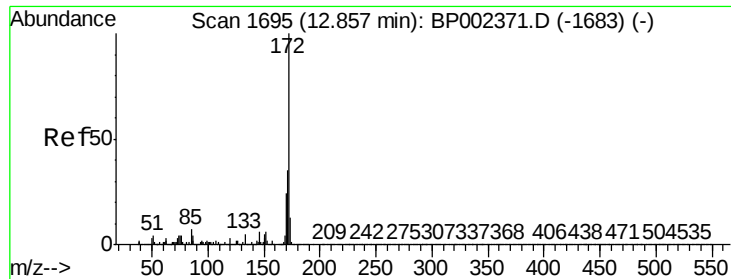


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

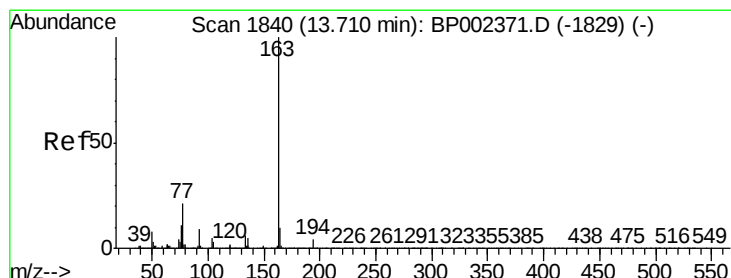
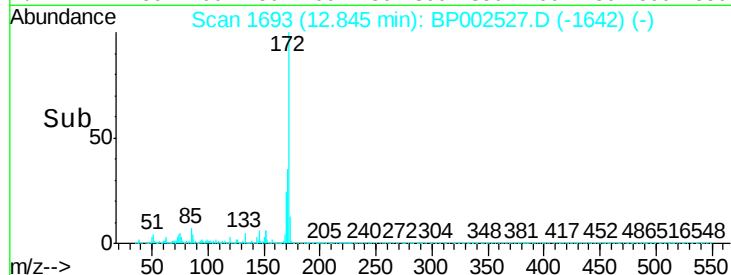
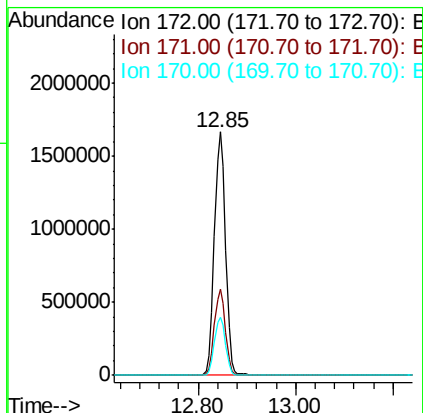
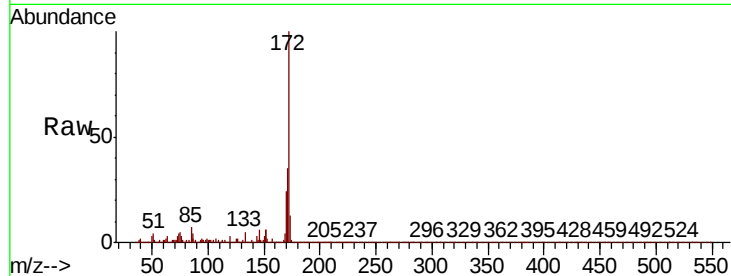




#45  
2-Fluorobiphenyl  
Concen: 81.530 ng  
RT: 12.85 min Scan# 1693  
Delta R.T. 0.00 min  
Lab File: BP002527.D  
Acq: 24 Jun 2020 17:35

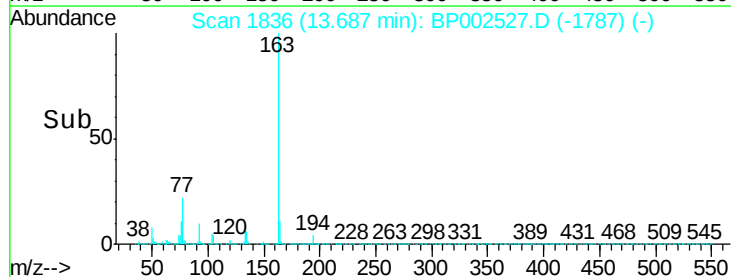
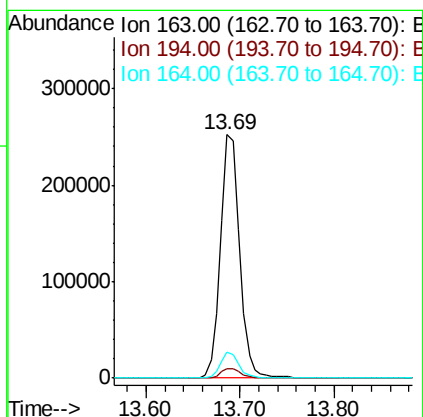
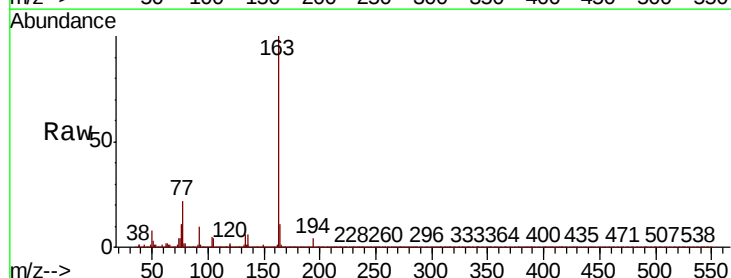
Instrument :  
BNA\_P  
ClientSampleId :  
RB47185-RT

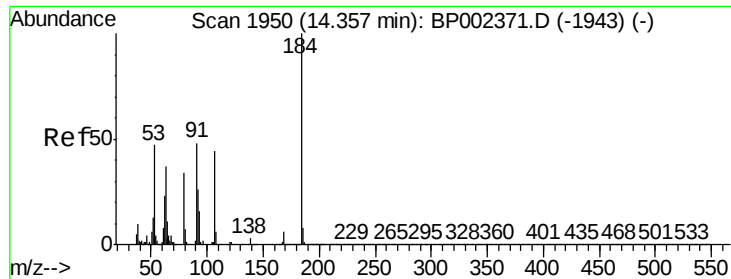
Tot Ion:172 Resp: 2653401  
Ion Ratio Lower Upper  
172 100  
171 35.2 27.9 41.9  
170 23.6 19.0 28.6



#50  
Dimethylphthalate  
Concen: 9.597 ng  
RT: 13.69 min Scan# 1836  
Delta R.T. -0.01 min  
Lab File: BP002527.D  
Acq: 24 Jun 2020 17:35

Tgt Ion:163 Resp: 359862  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.4 5.0  
164 10.6 8.2 12.2

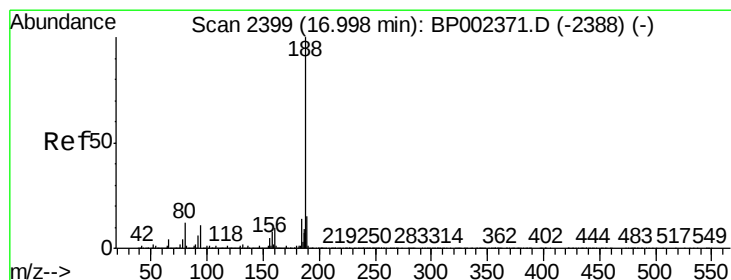
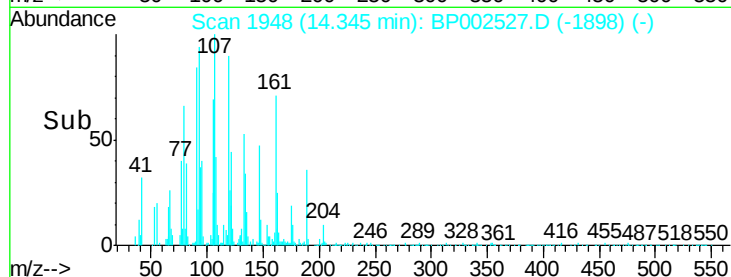
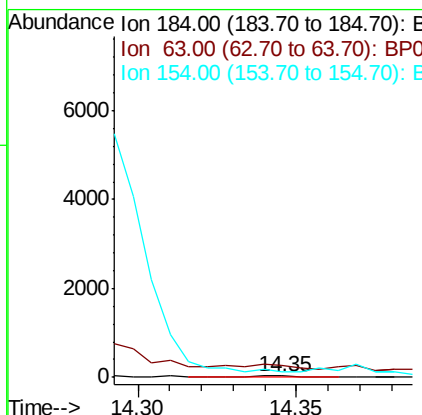
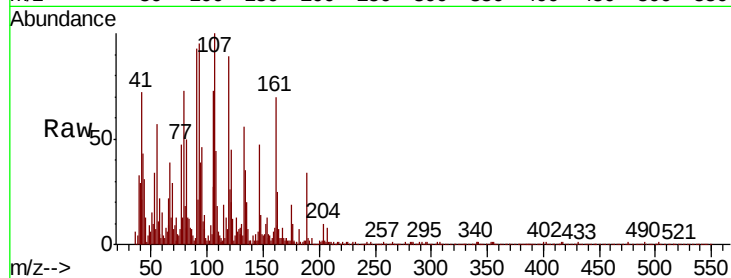




#54  
2,4-Dinitrophenol  
Concen: 2.797 ng  
RT: 14.35 min Scan# 1948  
Delta R.T. -0.01 min  
Lab File: BP002527.D  
Acq: 24 Jun 2020 17:35

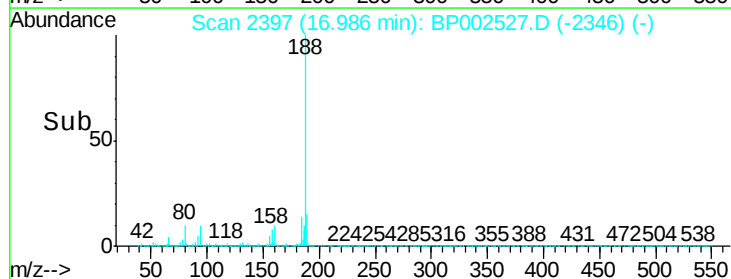
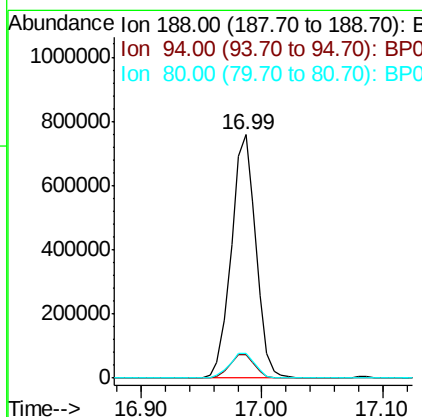
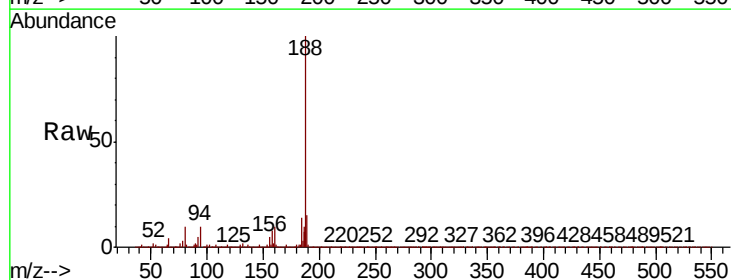
Instrument :  
BNA\_P  
ClientSampleId :  
RB47185-RT

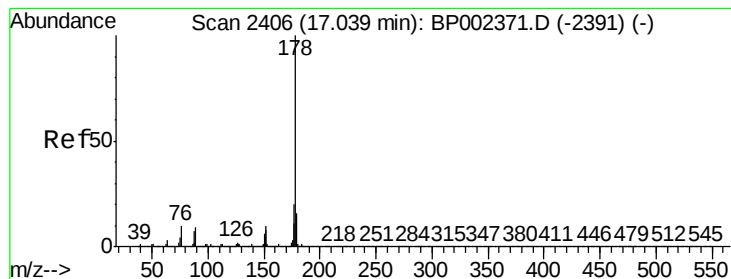
Tot Ion:184 Resp: 53  
Ion Ratio Lower Upper  
184 100  
63 860.0 51.3 76.9#  
154 373.3 50.2 75.2#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.99 min Scan# 2397  
Delta R.T. 0.00 min  
Lab File: BP002527.D  
Acq: 24 Jun 2020 17:35

Tgt Ion:188 Resp: 1071580  
Ion Ratio Lower Upper  
188 100  
94 9.6 7.6 11.4  
80 10.1 8.3 12.5





#71

Phenanthrene

Concen: 4.972 ng

RT: 17.03 min Scan# 2404

Delta R.T. 0.00 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

Instrument :

BNA\_P

ClientSampleId :

RB47185-RT

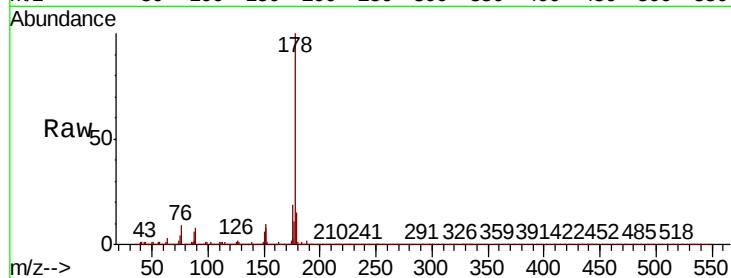
Tot Ion:178 Resp: 249208

Ion Ratio Lower Upper

178 100

176 19.3 15.6 23.4

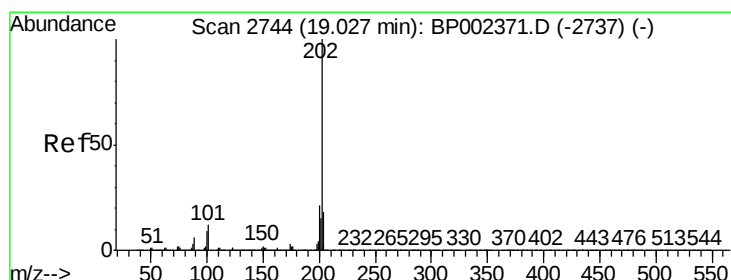
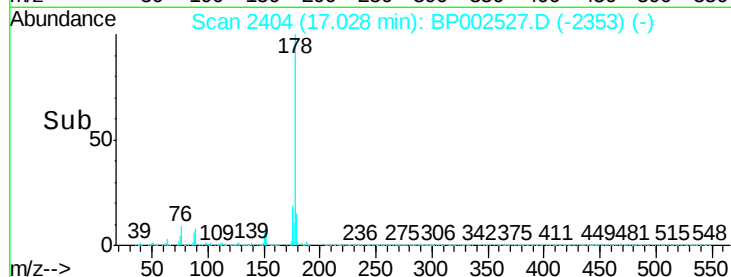
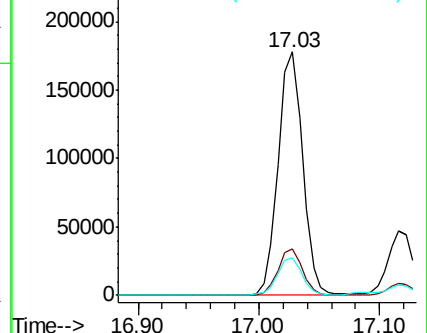
179 15.3 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 9.965 ng

RT: 19.01 min Scan# 2741

Delta R.T. -0.01 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

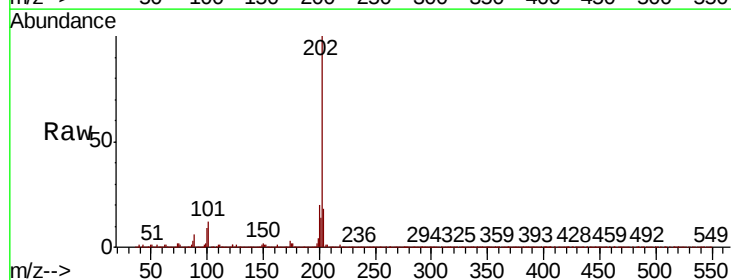
Tgt Ion:202 Resp: 596239

Ion Ratio Lower Upper

202 100

101 11.8 0.0 30.3

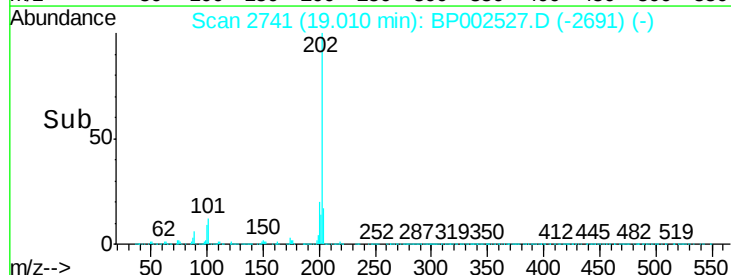
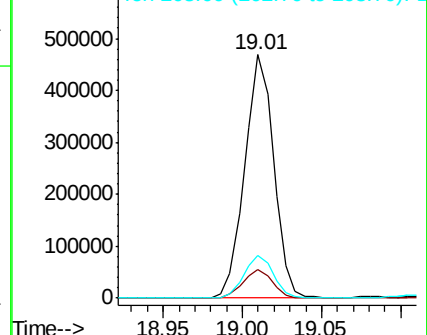
203 17.5 0.0 36.9

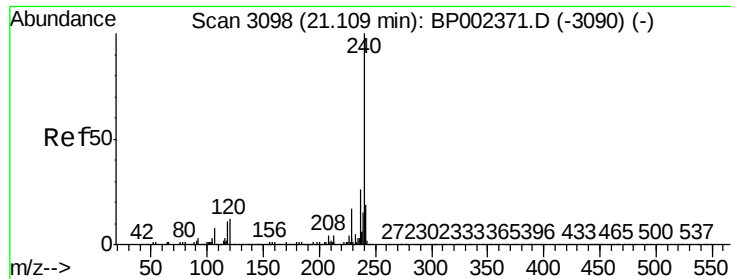


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

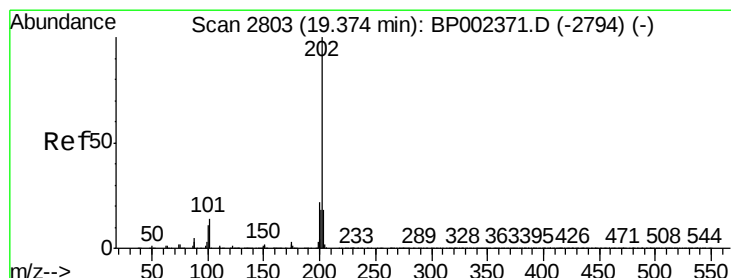
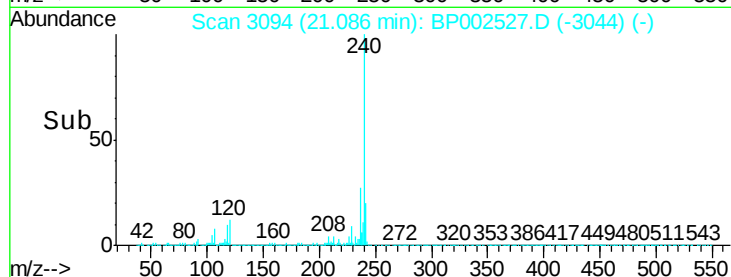
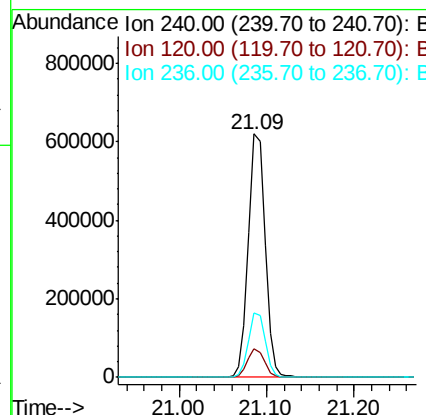
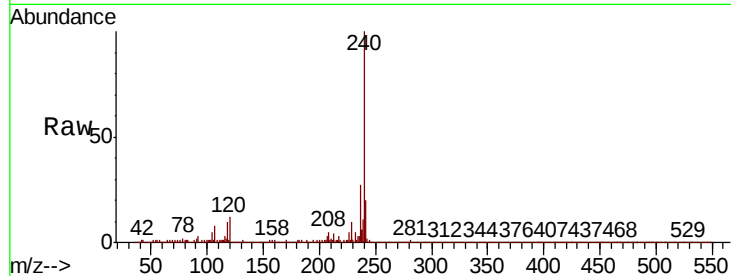




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.09 min Scan# 3094  
 Delta R.T. -0.01 min  
 Lab File: BP002527.D  
 Acq: 24 Jun 2020 17:35

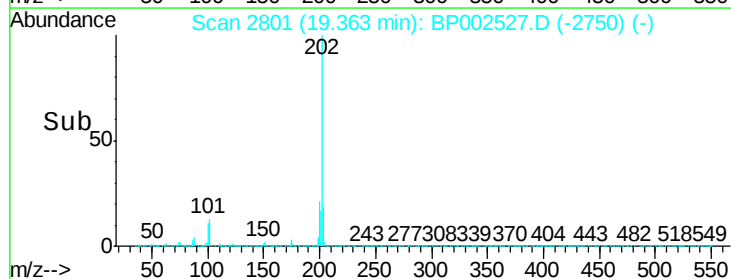
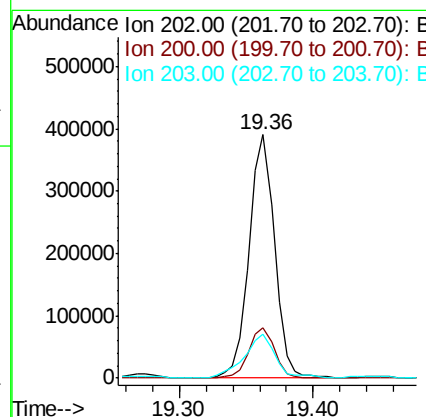
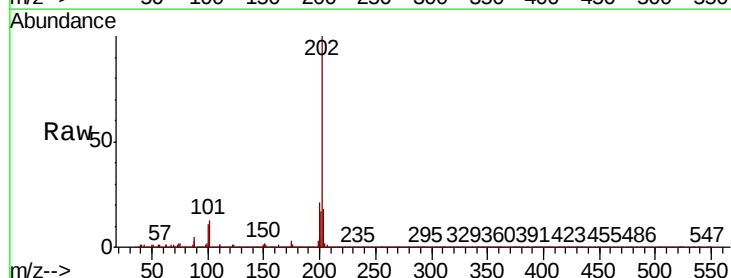
Instrument :  
 BNA\_P  
 ClientSampleId :  
 RB47185-RT

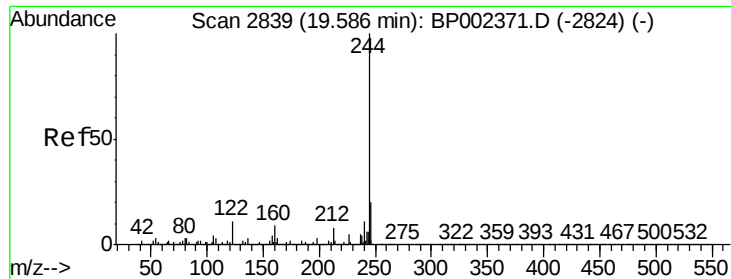
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.7  | 8.9   | 13.3  |
| 236     | 26.7  | 21.7  | 32.5  |



#78  
 Pyrene  
 Concen: 10.462 ng  
 RT: 19.36 min Scan# 2801  
 Delta R.T. 0.00 min  
 Lab File: BP002527.D  
 Acq: 24 Jun 2020 17:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.7  | 17.4  | 26.2  |
| 203     | 18.1  | 14.1  | 21.1  |





#79

Terphenyl-d14

Concen: 103.522 ng

RT: 19.57 min Scan# 2837

Delta R.T. 0.00 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

Instrument :

BNA\_P

ClientSampleId :

RB47185-RT

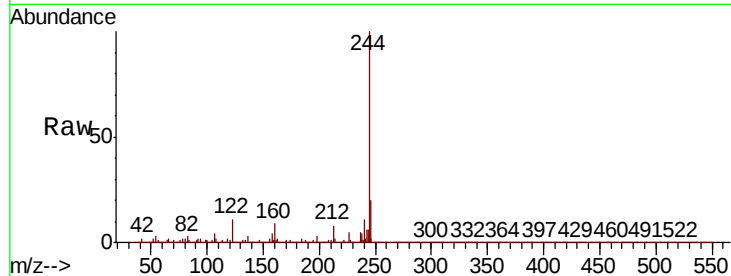
Tot Ion:244 Resp: 3019009

Ion Ratio Lower Upper

244 100

212 8.1 6.5 9.7

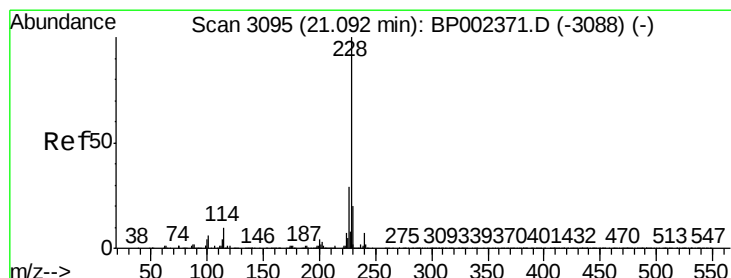
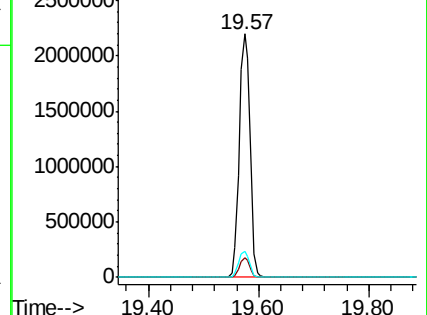
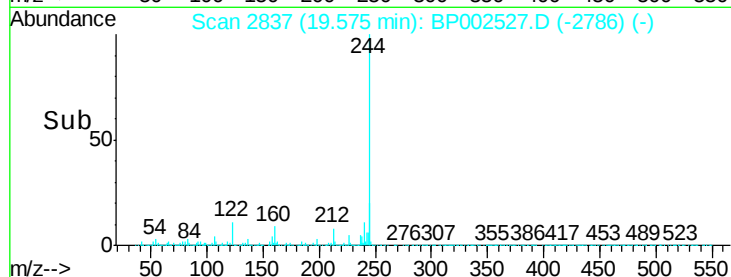
122 10.8 8.0 12.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 5.374 ng

RT: 21.07 min Scan# 3092

Delta R.T. -0.01 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

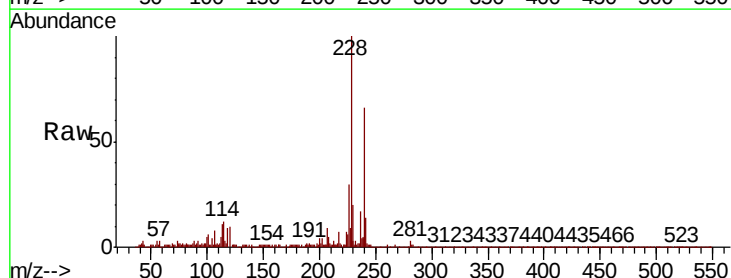
Tgt Ion:228 Resp: 244228

Ion Ratio Lower Upper

228 100

226 29.6 22.3 33.5

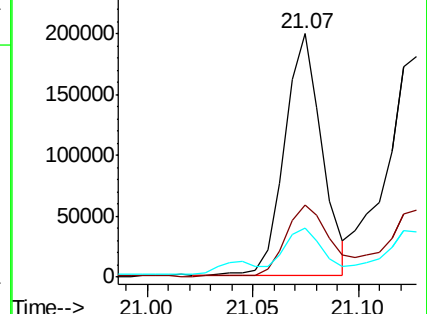
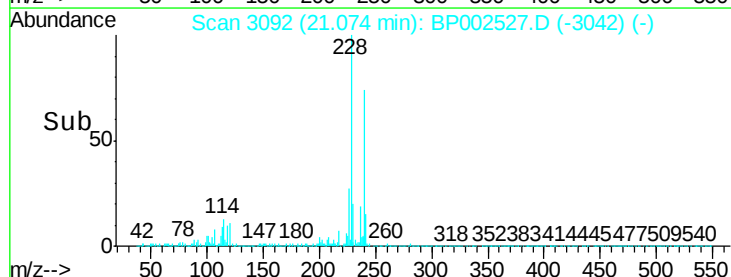
229 20.4 15.9 23.9

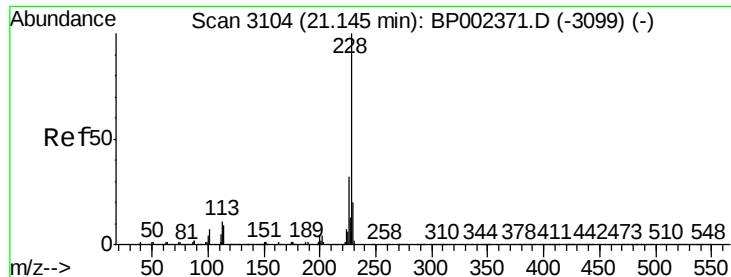


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

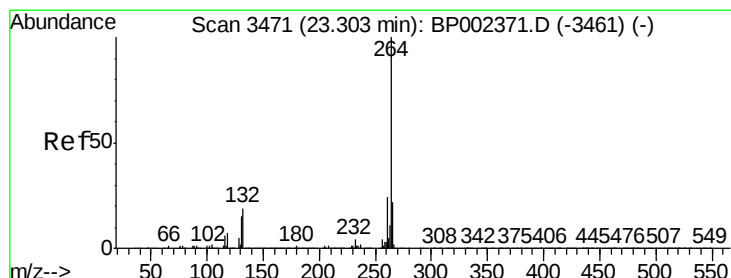
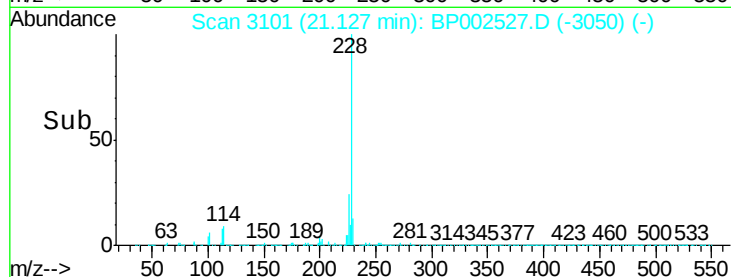
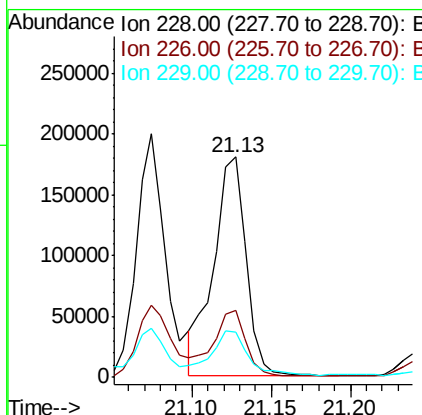
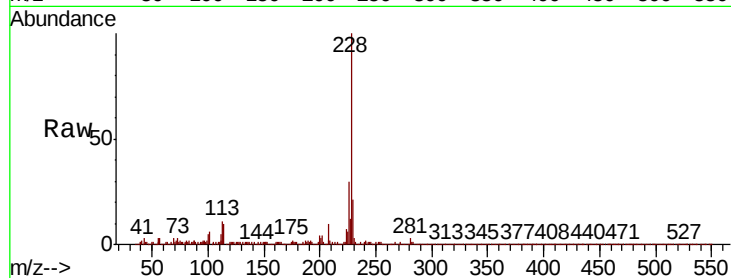




#83  
Chrysene  
Concen: 5.974 ng  
RT: 21.13 min Scan# 3101  
Delta R.T. 0.00 min  
Lab File: BP002527.D  
Acq: 24 Jun 2020 17:35

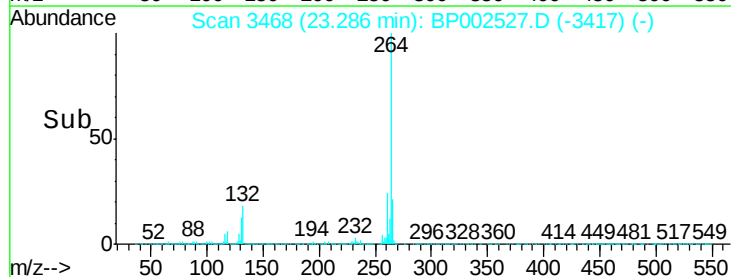
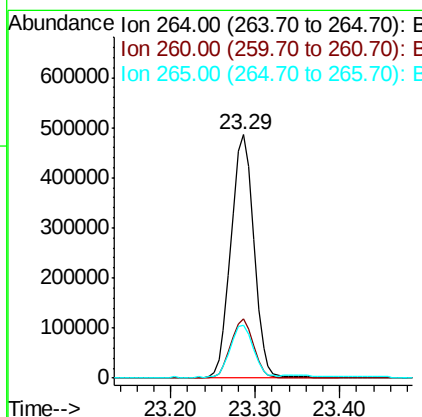
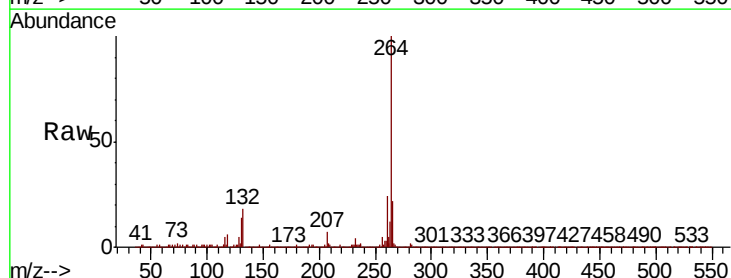
Instrument :  
BNA\_P  
ClientSampleId :  
RB47185-RT

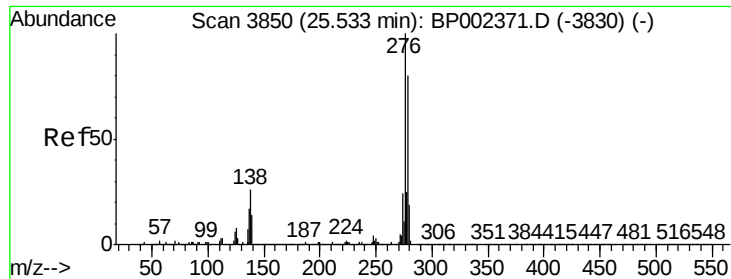
Tot Ion:228 Resp: 257186  
Ion Ratio Lower Upper  
228 100  
226 30.4 25.0 37.6  
229 20.8 15.7 23.5



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.29 min Scan# 3468  
Delta R.T. 0.00 min  
Lab File: BP002527.D  
Acq: 24 Jun 2020 17:35

Tgt Ion:264 Resp: 904134  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.7 29.5  
265 21.6 17.6 26.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.201 ng

RT: 25.49 min Scan# 3842

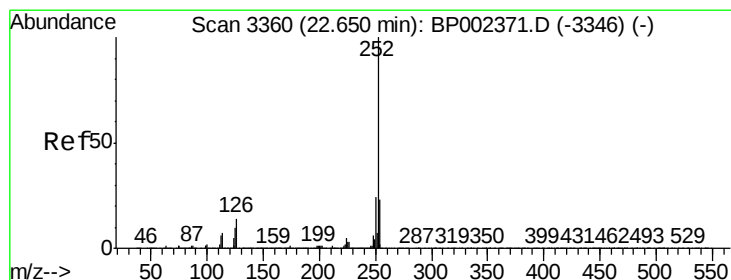
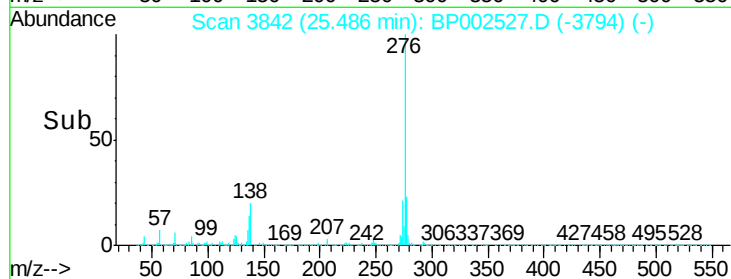
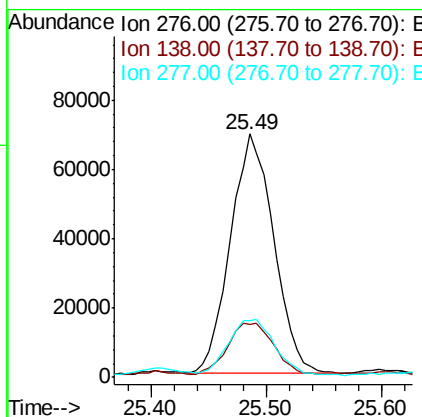
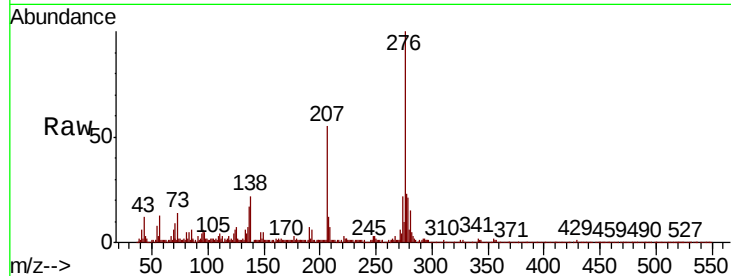
Delta R.T. -0.02 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

Instrument :  
BNA\_P  
ClientSampleId :  
RB47185-RT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.4  | 19.4  | 29.0  |
| 277     | 24.9  | 20.4  | 30.6  |



#88

Benzo(b)fluoranthene

Concen: 7.570 ng

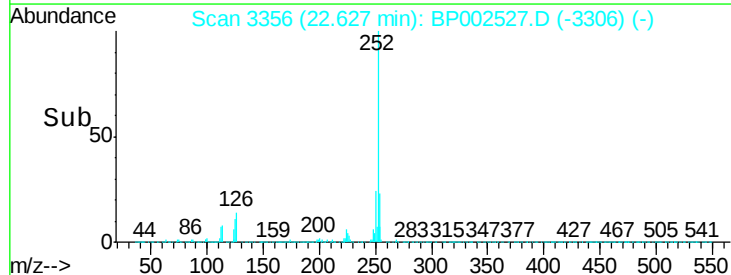
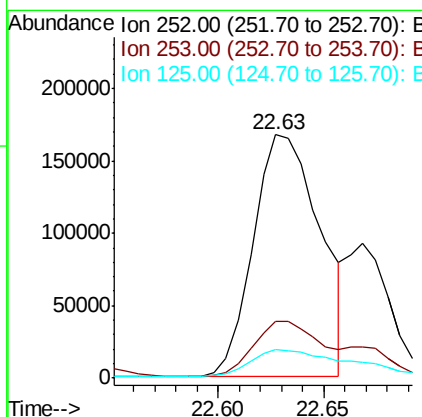
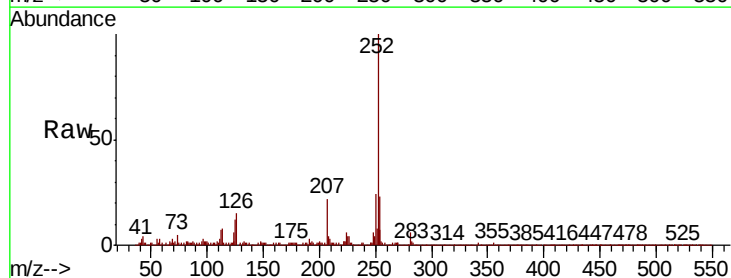
RT: 22.63 min Scan# 3356

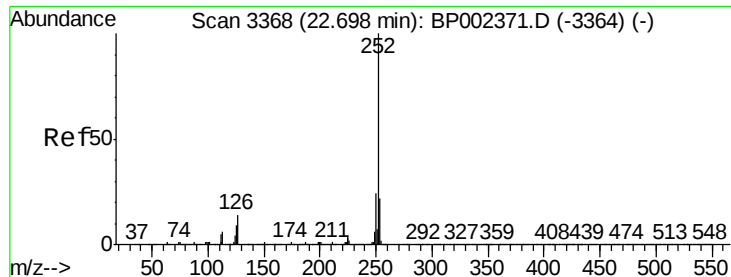
Delta R.T. -0.01 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 18.1  | 27.1  |
| 125     | 11.7  | 7.5   | 11.3  |





#89

Benzo(k)fluoranthene

Concen: 7.967 ng

RT: 22.63 min Scan# 3356

Delta R.T. -0.05 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

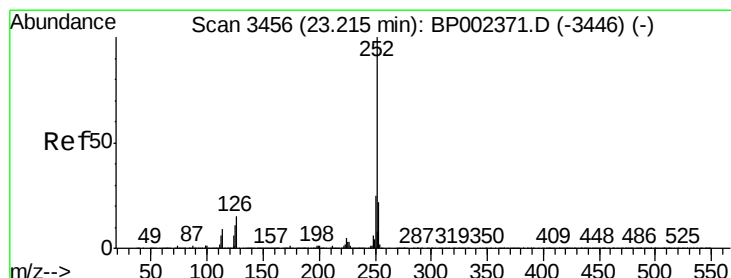
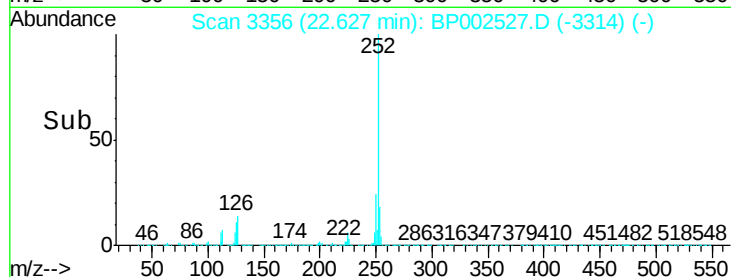
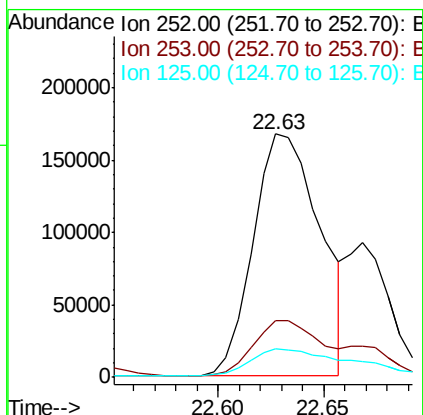
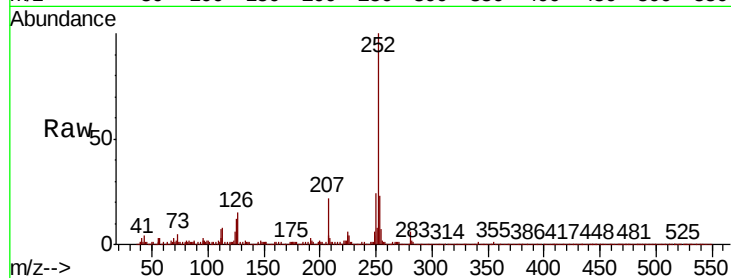
Instrument :

BNA\_P

ClientSampleId :

RB47185-RT

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:252 | Resp: | 369095    |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 23.1  | 17.1 25.7 |
| 125         | 11.7  | 7.0 10.4# |



#90

Benzo(a)pyrene

Concen: 5.362 ng

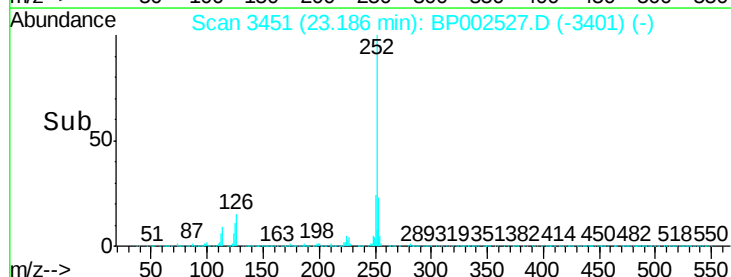
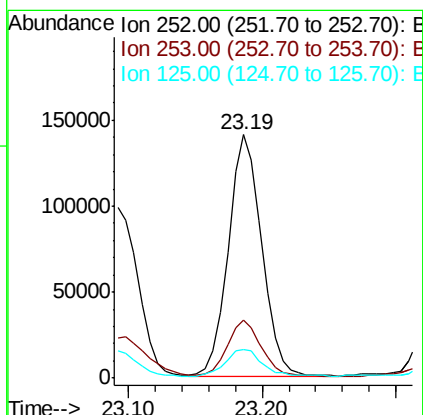
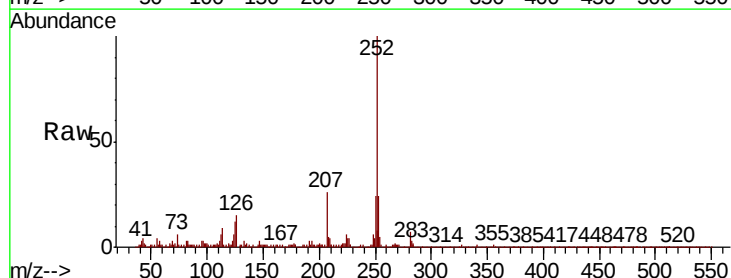
RT: 23.19 min Scan# 3451

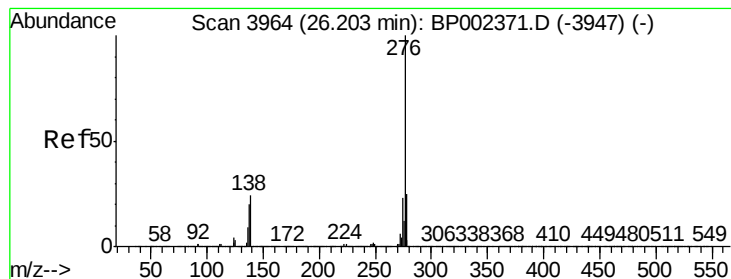
Delta R.T. -0.01 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 245006    |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 23.9  | 18.2 27.4 |
| 125         | 11.5  | 8.7 13.1  |





#92

Benzo(a,h,i)perylene

Concen: 3.655 ng

RT: 26.16 min Scan# 3957

Delta R.T. -0.01 min

Lab File: BP002527.D

Acq: 24 Jun 2020 17:35

Instrument :

BNA\_P

ClientSampleId :

RB47185-RT

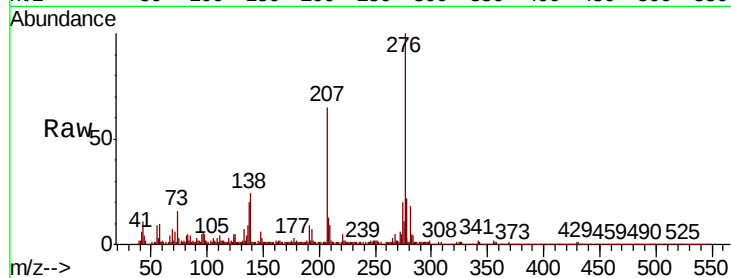
Tot Ion:276 Resp: 171741

Ion Ratio Lower Upper

276 100

277 22.1 18.7 28.1

138 24.1 17.6 26.4



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

