

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP062420\  
 Data File : BP002530.D  
 Acq On : 24 Jun 2020 19:17  
 Operator : CG/JU  
 Sample : L3089-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 RB47184-RT

Manual Integrations  
 APPROVED

mohammad  
 6/25/2020 1:07:37 PM

Quant Time: Jun 25 01:34:07 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  | 236023   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.35 | 136  | 941172   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.23 | 164  | 560558   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 16.99 | 188  | 1181015  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.09 | 240  | 845578   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 23.29 | 264  | 816565   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.20  | 112  | 1468092  | 115.10 | ng    | 0.00     |
| 7) Phenol-d6                | 6.78  | 99   | 1992918  | 117.35 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.73  | 82   | 1404879  | 89.14  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.73 | 330  | 711616   | 132.59 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.85 | 172  | 2797790  | 83.92  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.57 | 244  | 3476046  | 115.68 | ng    | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 49) Acenaphthylene         | 13.95 | 152  | 105658   | 2.203  | ng    | 98     |
| 50) Dimethylphthalate      | 13.69 | 163  | 342633   | 8.921  | ng    | 99     |
| 71) Phenanthrene           | 17.03 | 178  | 319496   | 5.783  | ng    | 99     |
| 75) Fluoranthene           | 19.01 | 202  | 876824   | 13.296 | ng    | 96     |
| 78) Pyrene                 | 19.36 | 202  | 773438   | 14.933 | ng    | 99     |
| 81) Benzo(a)anthracene     | 21.07 | 228  | 366092   | 7.585  | ng    | 95     |
| 83) Chrysene               | 21.13 | 228  | 388996   | 8.507  | ng    | 97     |
| 87) Indeno(1,2,3-cd)pyrene | 25.49 | 276  | 269380   | 5.274  | ng    | 98     |
| 88) Benzo(b)fluoranthene   | 22.63 | 252  | 559310m  | 12.701 | ng    |        |
| 89) Benzo(k)fluoranthene   | 22.67 | 252  | 157861m  | 3.773  | ng    |        |
| 90) Benzo(a)pyrene         | 23.19 | 252  | 338619   | 8.206  | ng    | 98     |
| 92) Benzo(a,h,i)perylene   | 26.16 | 276  | 255551   | 6.023  | ng    | 96     |

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

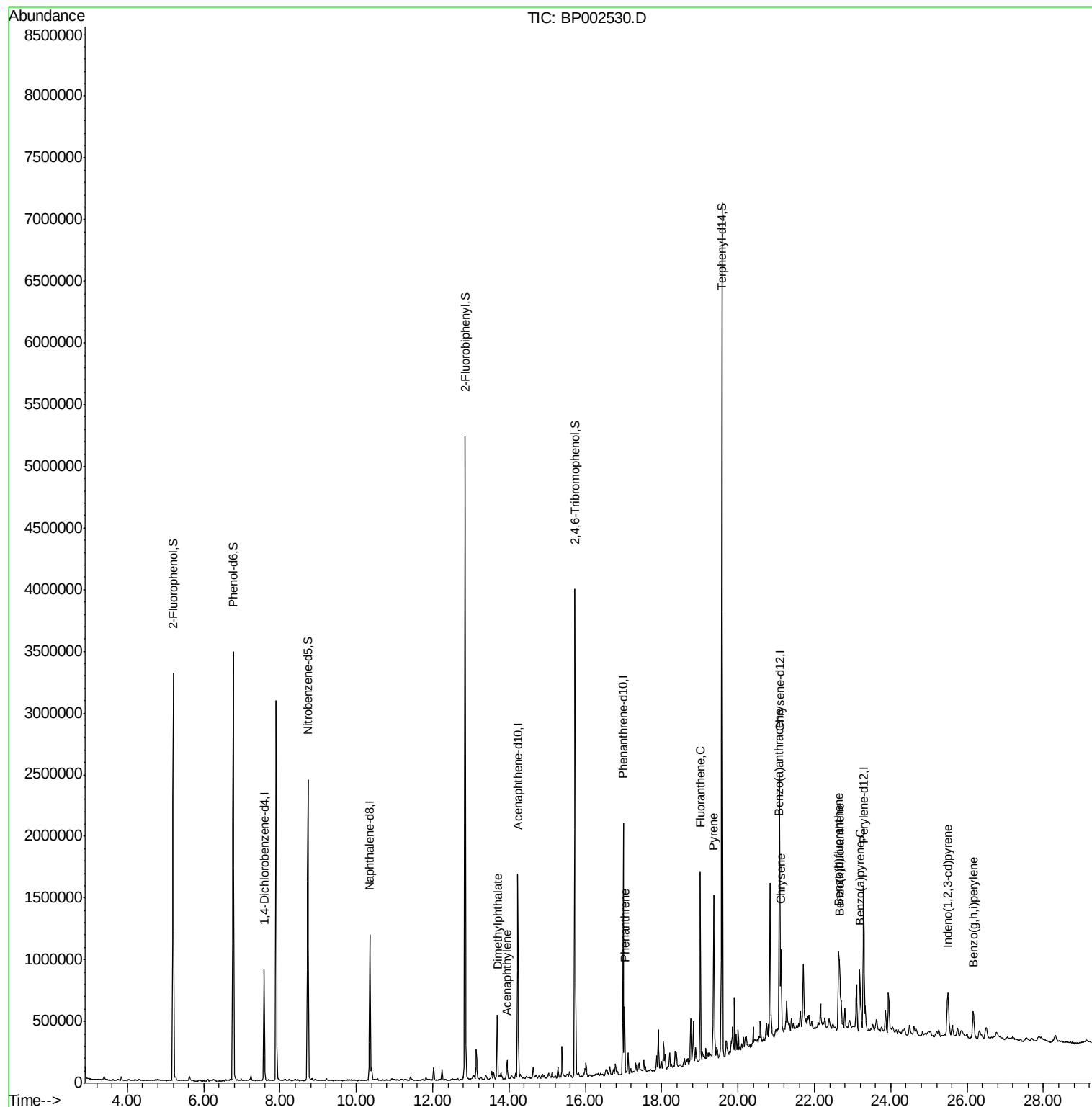
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP062420\  
Data File : BP002530.D  
Acq On : 24 Jun 2020 19:17  
Operator : CG/JU  
Sample : L3089-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

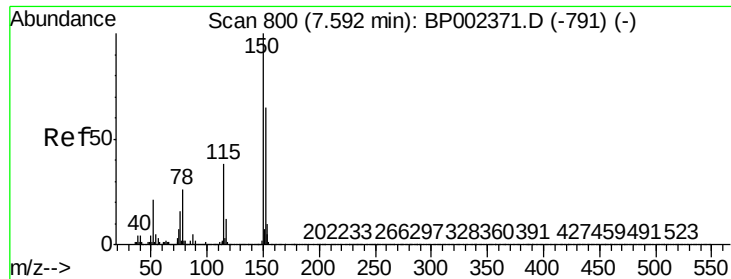
Instrument :  
BNA\_P  
ClientSampleId :  
RB47184-RT

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Quant Time: Jun 25 01:34:07 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





#1

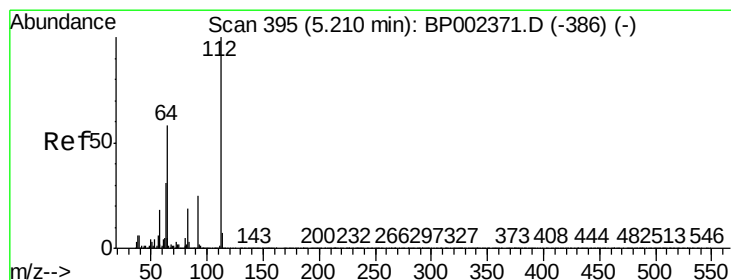
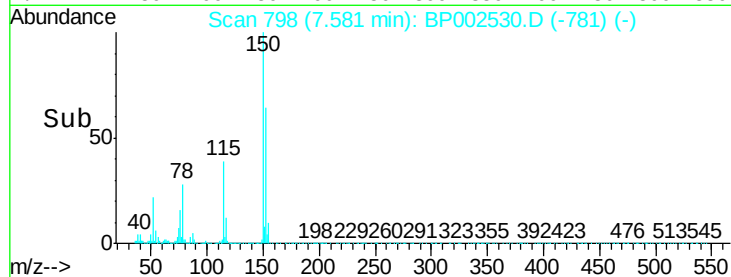
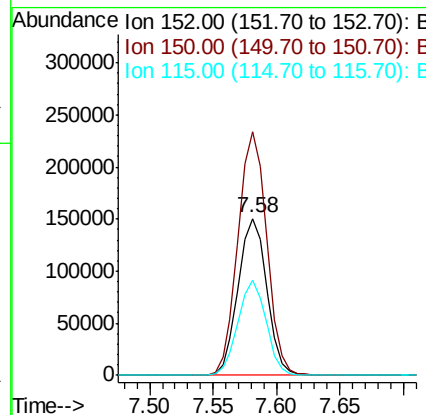
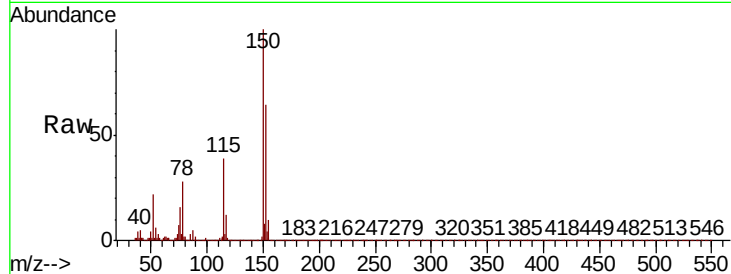
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.58 min Scan# 798  
Delta R.T. 0.00 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

Instrument :  
BNA\_P  
ClientSampleId :  
RB47184-RT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.1 | 124.4 | 186.6 |
| 115     | 60.7  | 47.8  | 71.6  |

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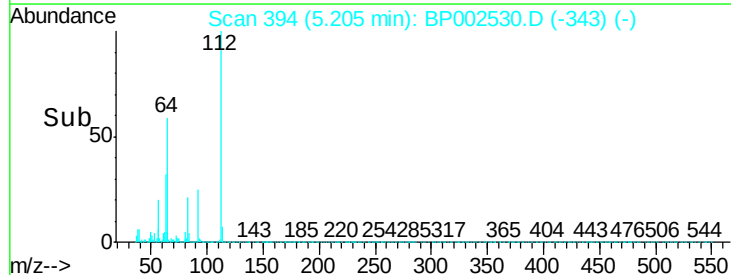
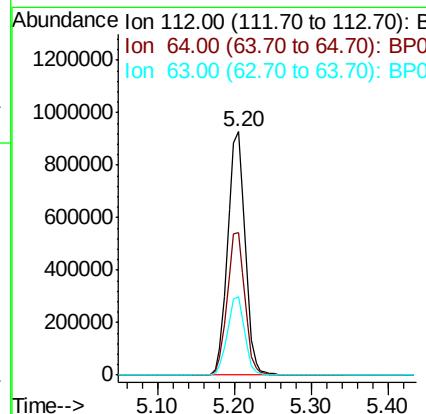
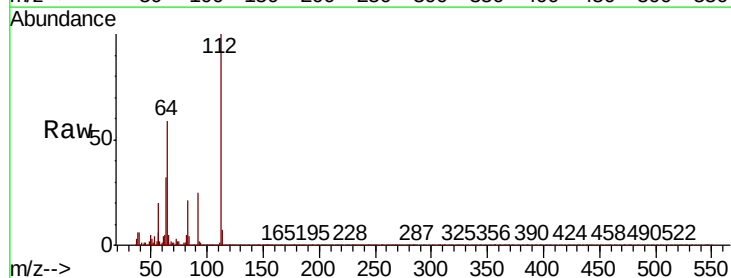
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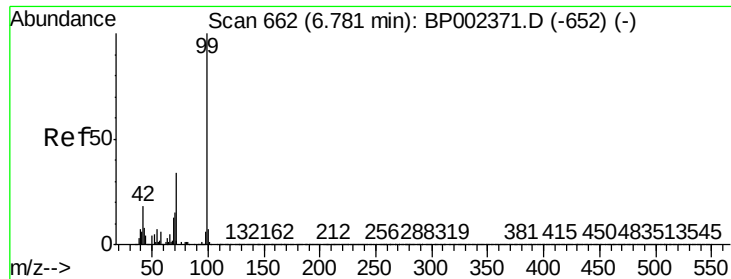


#5

2-Fluorophenol  
Concen: 115.098 ng  
RT: 5.20 min Scan# 394  
Delta R.T. 0.00 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.6  | 46.4  | 69.6  |
| 63      | 32.1  | 25.0  | 37.6  |





#7

Phenol-d6

Concen: 117.354 ng

RT: 6.78 min Scan# 661

Delta R.T. 0.00 min

Lab File: BP002530.D

Acq: 24 Jun 2020 19:17

Instrument :

BNA\_P

ClientSampleId :

RB47184-RT

Tot Ion: 99 Resp: 1992918

Ion Ratio Lower Upper

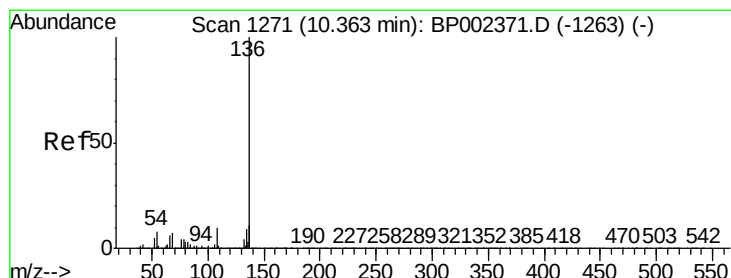
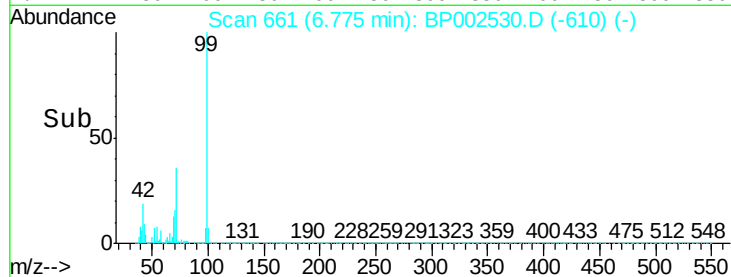
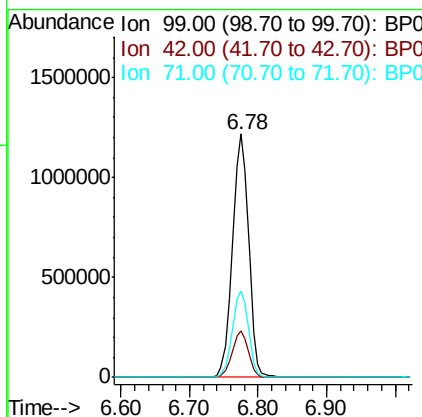
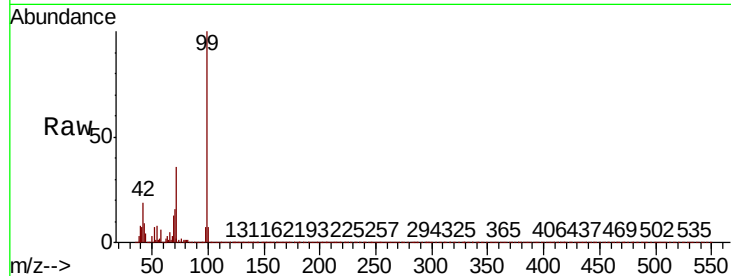
99 100

42 19.2 15.3 22.9

71 35.7 28.2 42.2

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.35 min Scan# 1269

Delta R.T. 0.00 min

Lab File: BP002530.D

Acq: 24 Jun 2020 19:17

Tgt Ion: 136 Resp: 941172

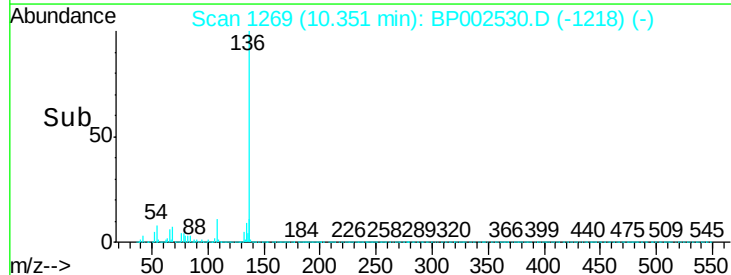
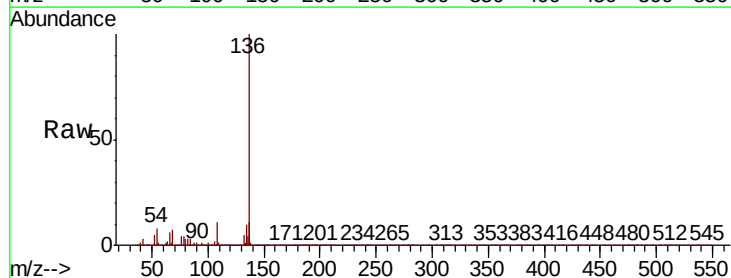
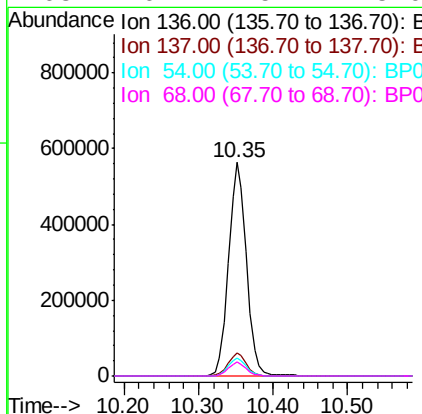
Ion Ratio Lower Upper

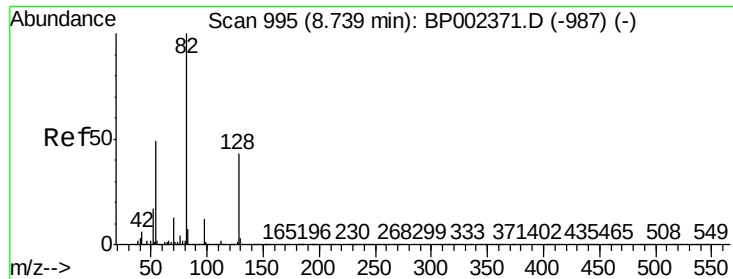
136 100

137 11.0 8.9 13.3

54 8.4 6.6 10.0

68 6.7 5.4 8.0





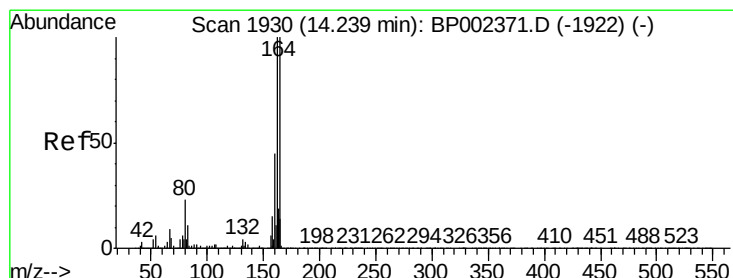
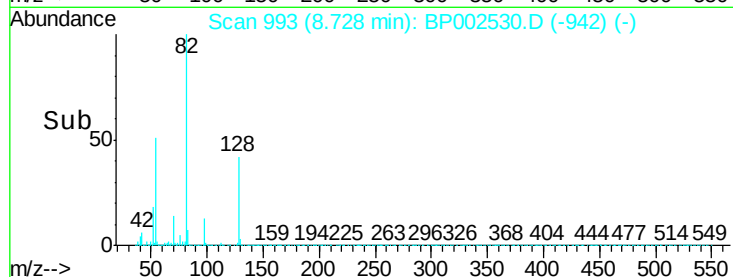
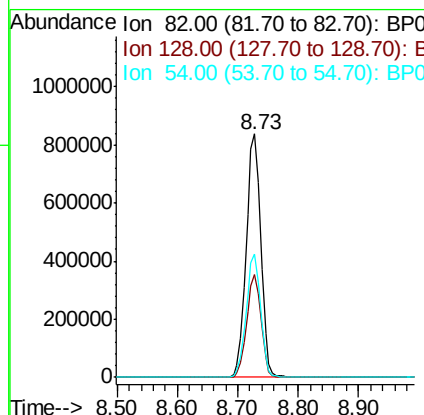
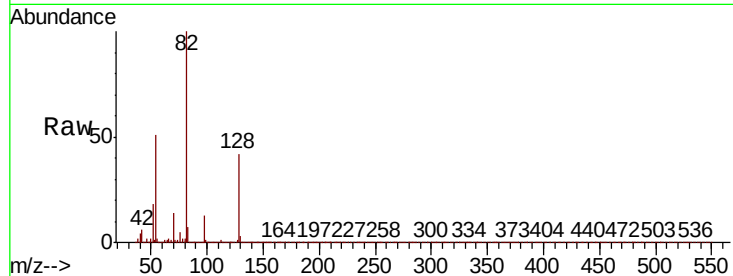
#23  
Nitrobenzene-d5  
Concen: 89.142 ng  
RT: 8.73 min Scan# 993  
Delta R.T. 0.00 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

Instrument :  
BNA\_P  
ClientSampled :  
RB47184-RT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.2  | 32.8  | 49.2  |
| 54      | 50.6  | 39.9  | 59.9  |

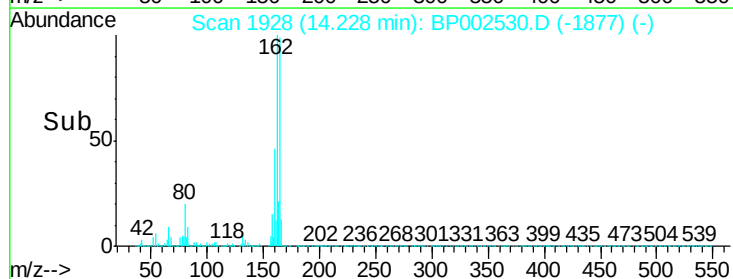
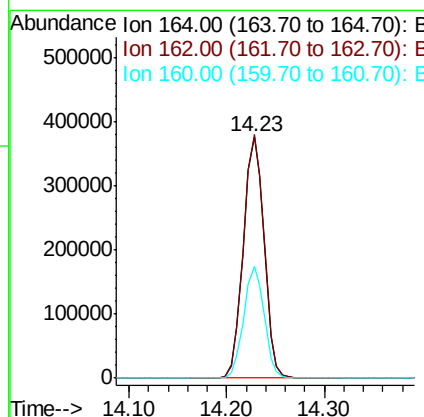
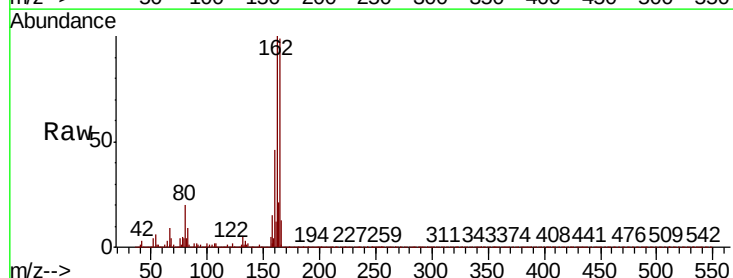
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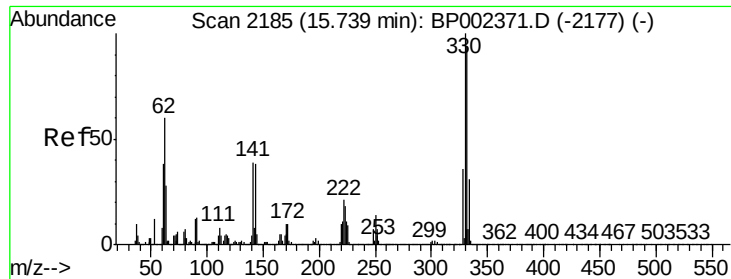
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.23 min Scan# 1928  
Delta R.T. 0.00 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.9 | 80.6  | 121.0 |
| 160     | 46.2  | 35.4  | 53.2  |





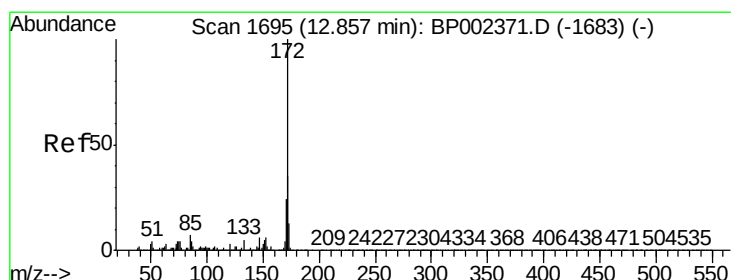
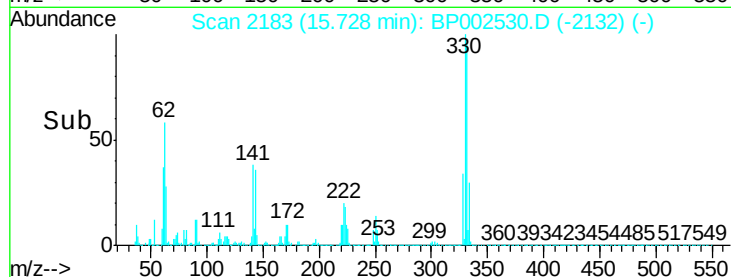
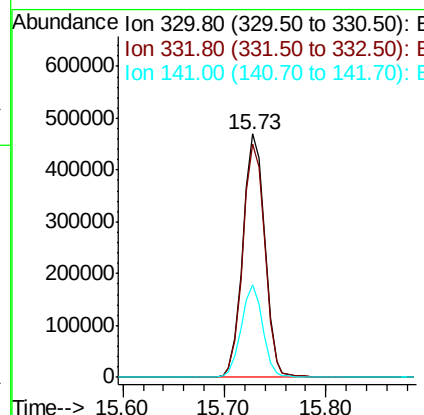
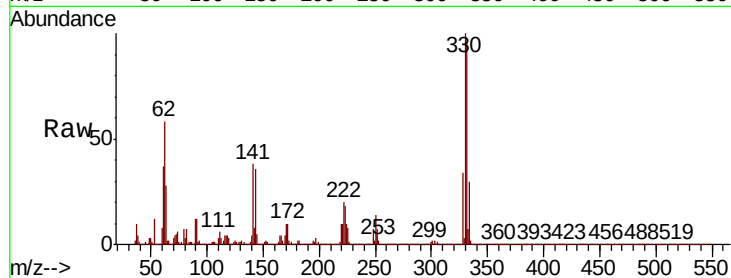
#42  
2,4,6-Tribromophenol  
Concen: 132.592 ng  
RT: 15.73 min Scan# 2183  
Delta R.T. 0.00 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

Instrument :  
BNA\_P  
ClientSampleId :  
RB47184-RT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.2  | 77.2  | 115.8 |
| 141     | 36.6  | 30.4  | 45.6  |

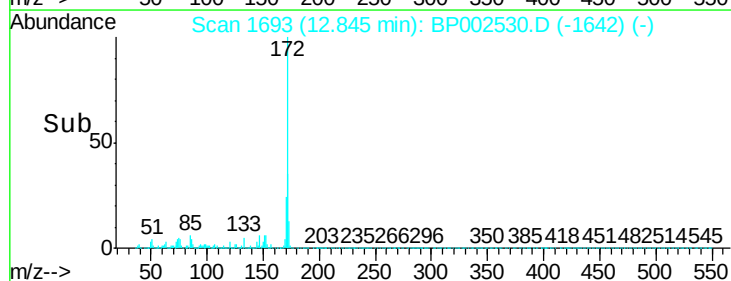
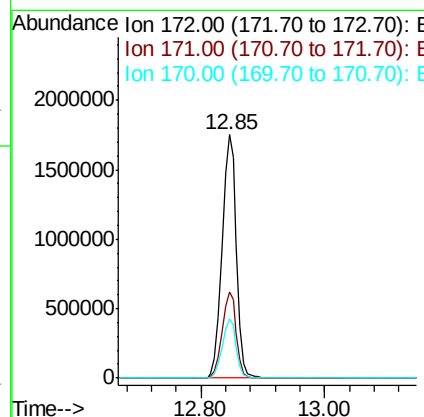
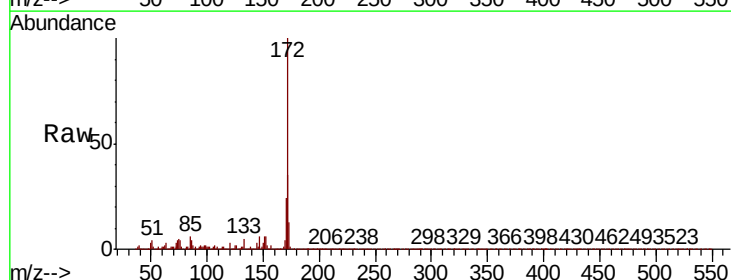
Manual Integrations  
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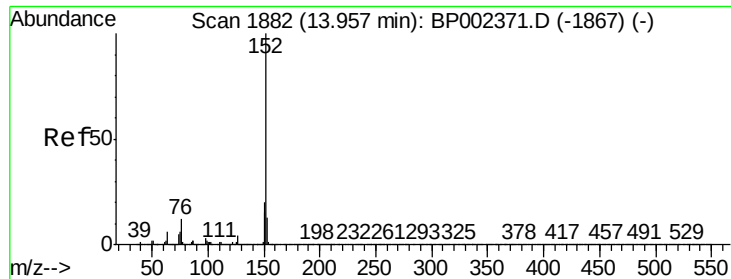
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#45  
2-Fluorobiphenyl  
Concen: 83.921 ng  
RT: 12.85 min Scan# 1693  
Delta R.T. 0.00 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.2  | 27.9  | 41.9  |
| 170     | 24.1  | 19.0  | 28.6  |





#49

Acenaphthylene

Concen: 2.203 ng

RT: 13.95 min Scan# 1880

Delta R.T. 0.00 min

Lab File: BP002530.D

Acq: 24 Jun 2020 19:17

Instrument :

BNA\_P

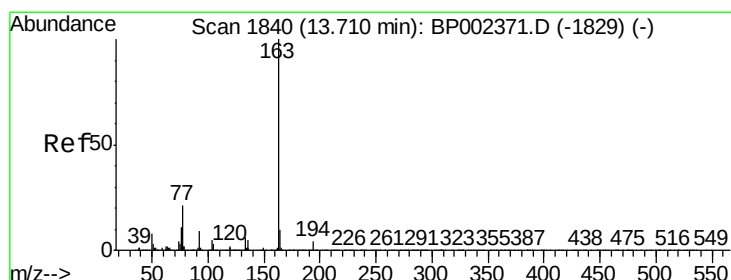
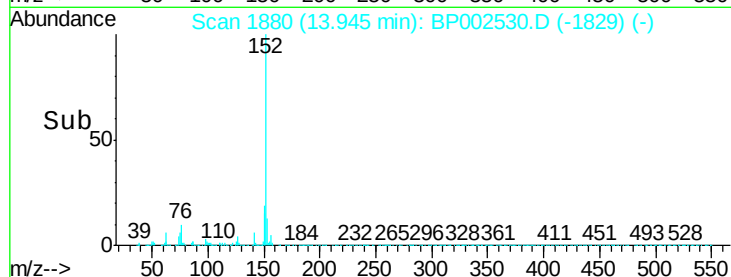
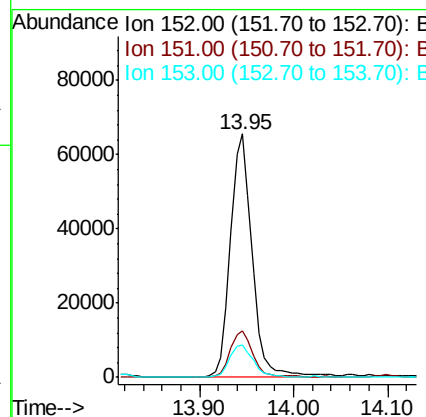
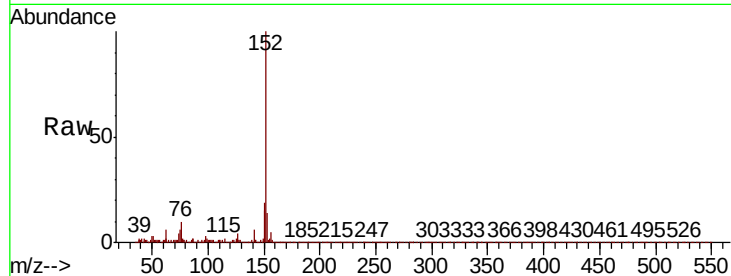
ClientSampleId :

RB47184-RT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.1  | 16.3  | 24.5  |
| 153     | 13.5  | 10.9  | 16.3  |

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#50

Dimethylphthalate

Concen: 8.921 ng

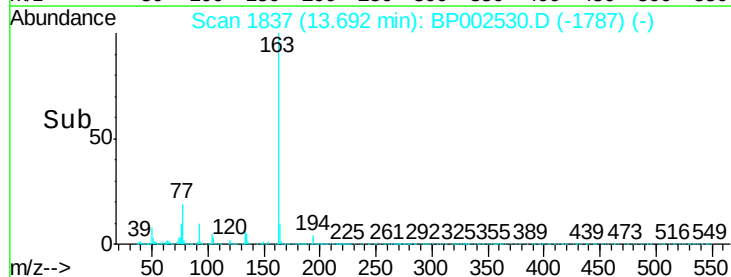
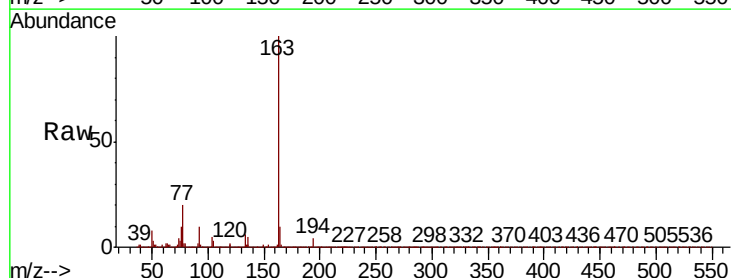
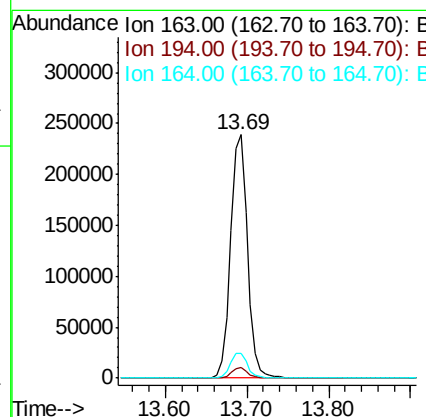
RT: 13.69 min Scan# 1837

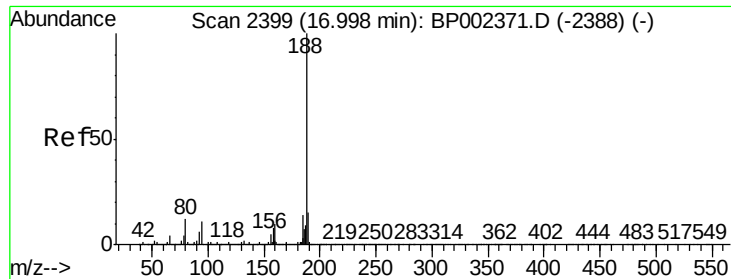
Delta R.T. -0.01 min

Lab File: BP002530.D

Acq: 24 Jun 2020 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.2   | 3.4   | 5.0   |
| 164     | 9.9   | 8.2   | 12.2  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.99 min Scan# 2397

Delta R.T. 0.00 min

Lab File: BP002530.D

Acq: 24 Jun 2020 19:17

Instrument :

BNA\_P

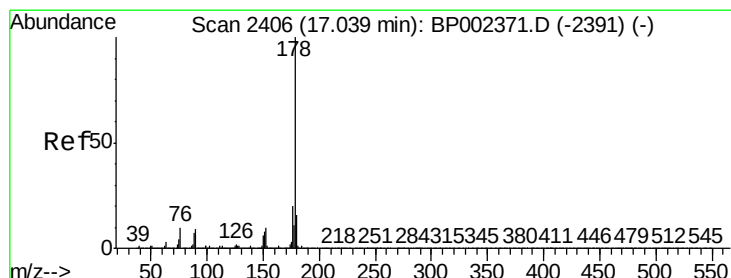
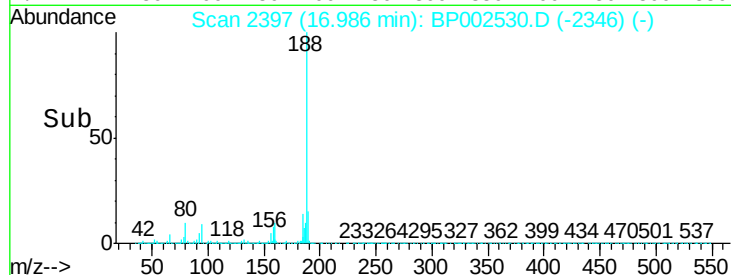
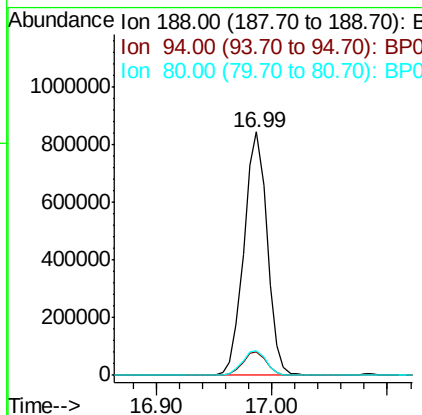
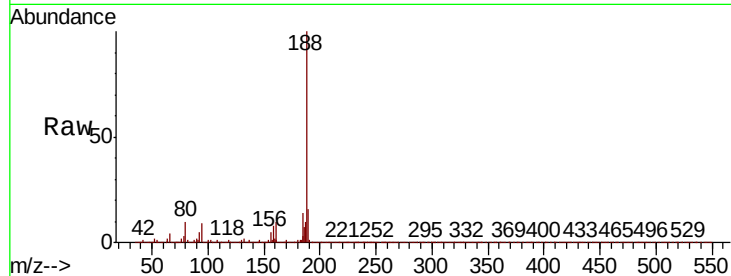
ClientSampleId :

RB47184-RT

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 188   | Resp: | 1181015 |
| Ion      | Ratio | Lower | Upper   |
| 188      | 100   |       |         |
| 94       | 9.4   | 7.6   | 11.4    |
| 80       | 10.2  | 8.3   | 12.5    |

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#71

Phenanthrene

Concen: 5.783 ng

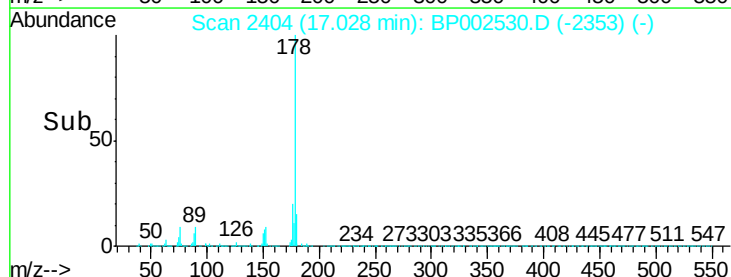
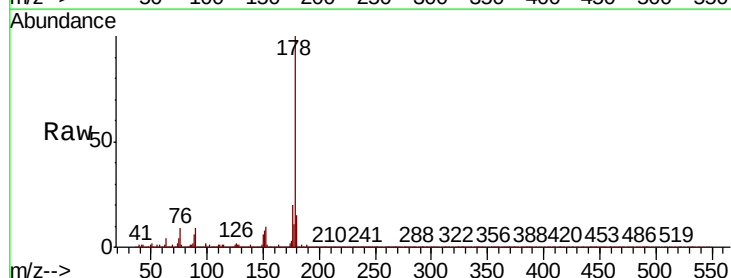
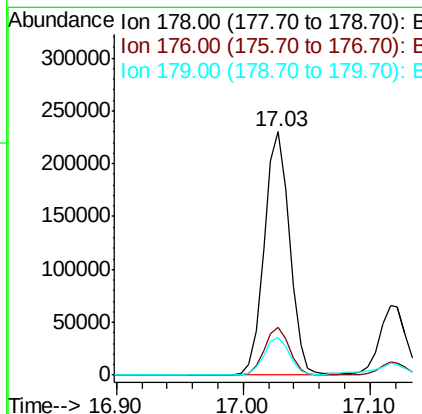
RT: 17.03 min Scan# 2404

Delta R.T. 0.00 min

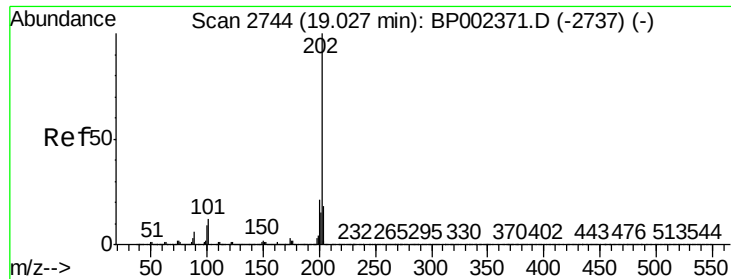
Lab File: BP002530.D

Acq: 24 Jun 2020 19:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 178   | Resp: | 319496 |
| Ion      | Ratio | Lower | Upper  |
| 178      | 100   |       |        |
| 176      | 19.7  | 15.6  | 23.4   |
| 179      | 15.4  | 12.8  | 19.2   |







#75

Fluoranthene

Concen: 13.296 ng

RT: 19.01 min Scan# 2741

Delta R.T. -0.01 min

Lab File: BP002530.D

Acq: 24 Jun 2020 19:17

Instrument :

BNA\_P

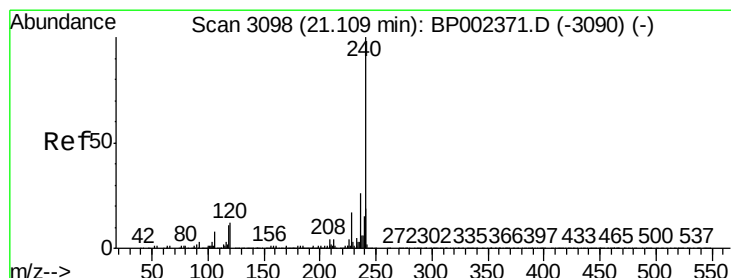
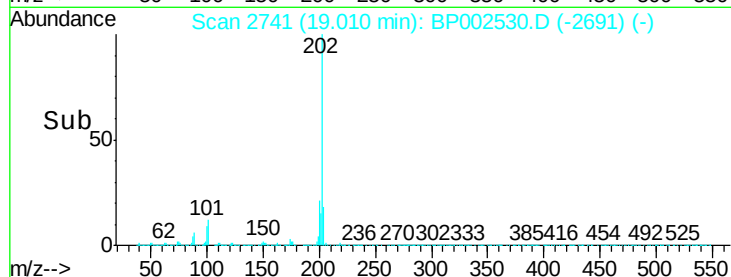
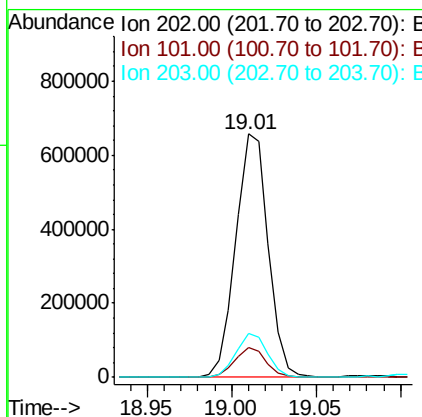
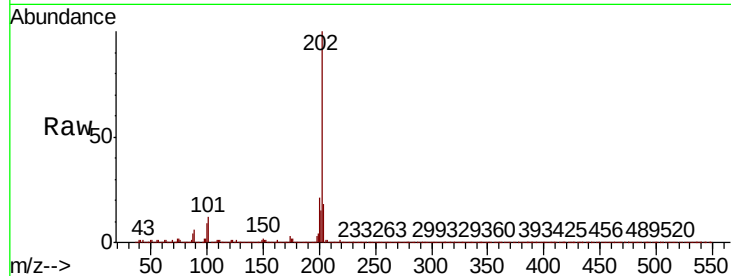
ClientSampleId :

RB47184-RT

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.5  | 0.0        | 30.3  |
| 203     | 18.3  | 0.0        | 36.9  |

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#76

Chrysene-d12

Concen: 20.000 ng

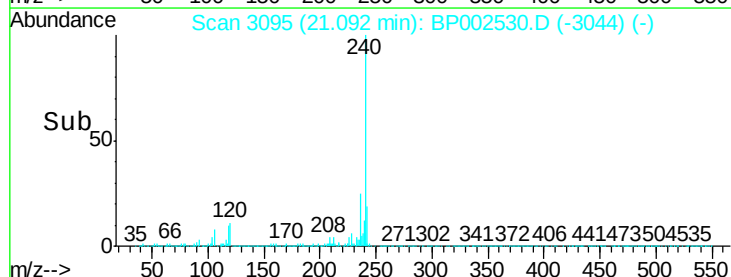
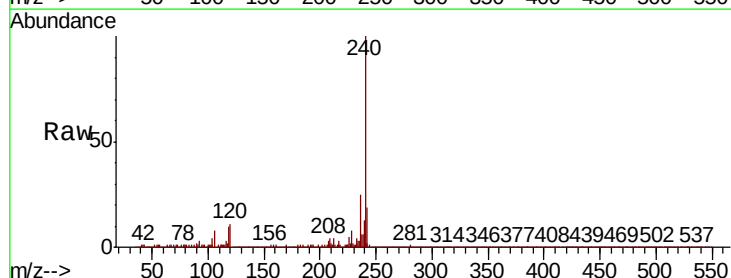
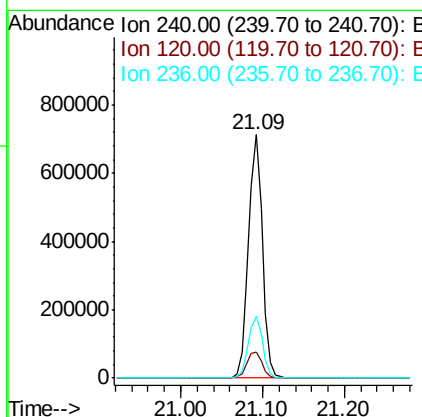
RT: 21.09 min Scan# 3095

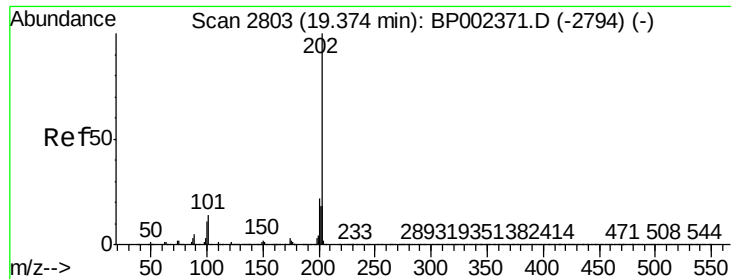
Delta R.T. 0.00 min

Lab File: BP002530.D

Acq: 24 Jun 2020 19:17

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 10.8  | 8.9        | 13.3  |
| 236     | 25.4  | 21.7       | 32.5  |





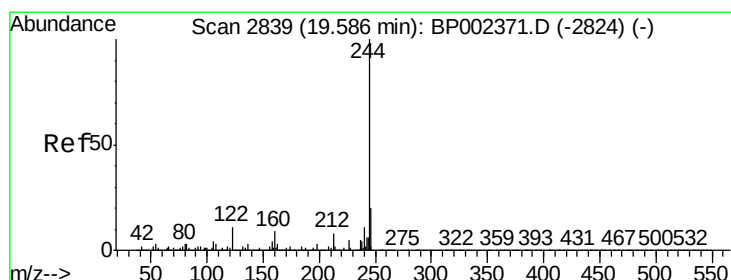
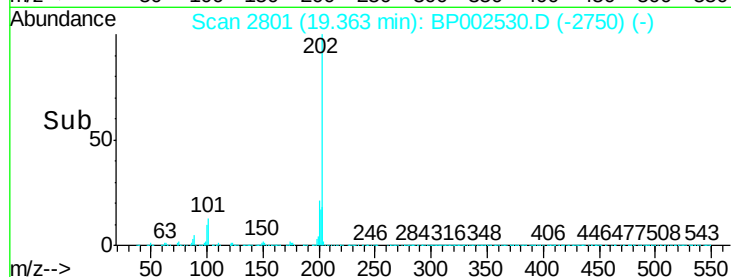
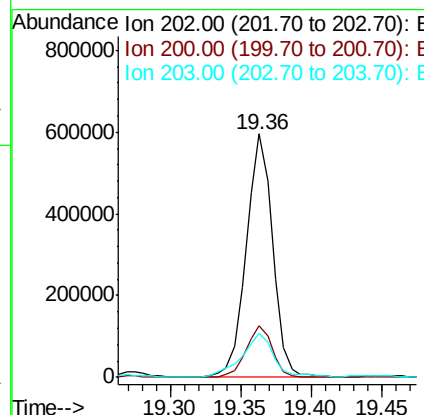
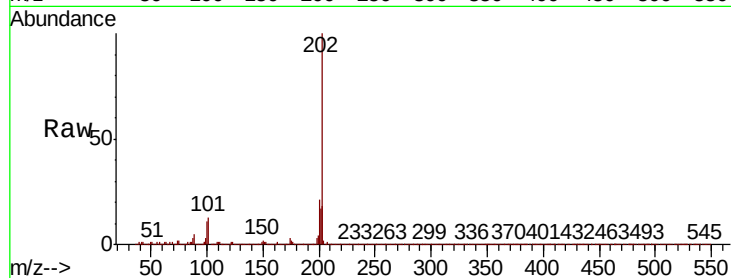
#78  
Pvrene  
Concen: 14.933 ng  
RT: 19.36 min Scan# 2801  
Delta R.T. 0.00 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

Instrument :  
BNA\_P  
ClientSampleId :  
RB47184-RT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.3  | 17.4  | 26.2  |
| 203     | 17.8  | 14.1  | 21.1  |

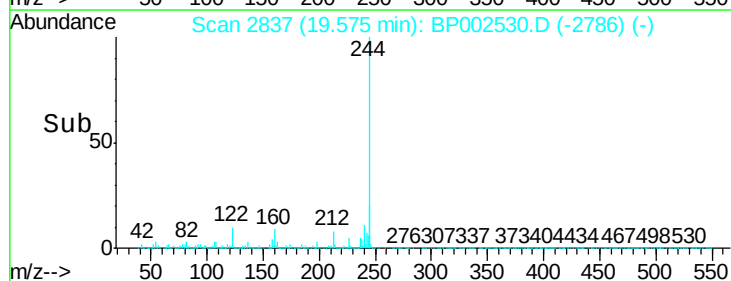
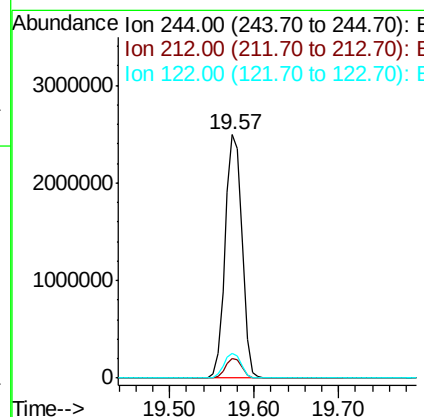
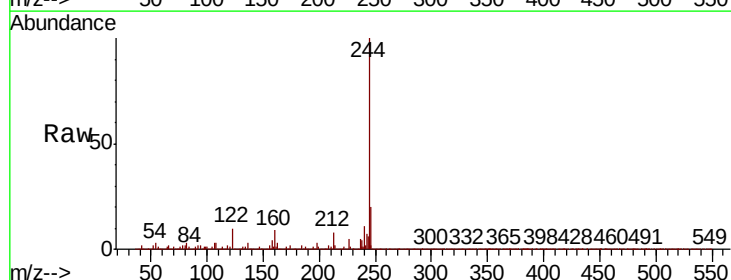
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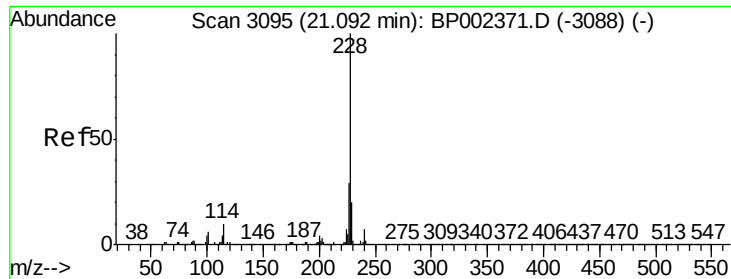
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#79  
Terphenyl-d14  
Concen: 115.685 ng  
RT: 19.57 min Scan# 2837  
Delta R.T. 0.00 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.2   | 6.5   | 9.7   |
| 122     | 10.0  | 8.0   | 12.0  |





#81

Benzo(a)anthracene

Concen: 7.585 ng

RT: 21.07 min Scan# 3092

Delta R.T. -0.01 min

Lab File: BP002530.D

Acq: 24 Jun 2020 19:17

Instrument :

BNA\_P

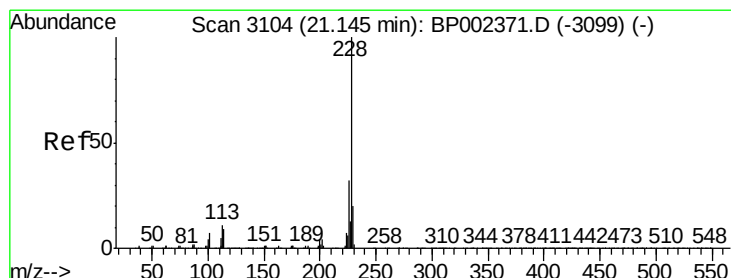
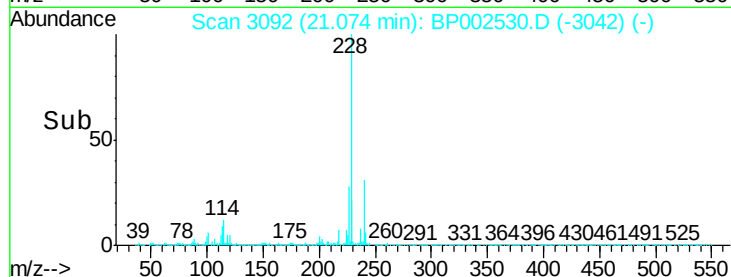
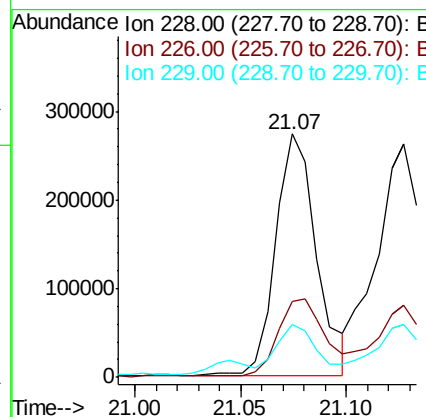
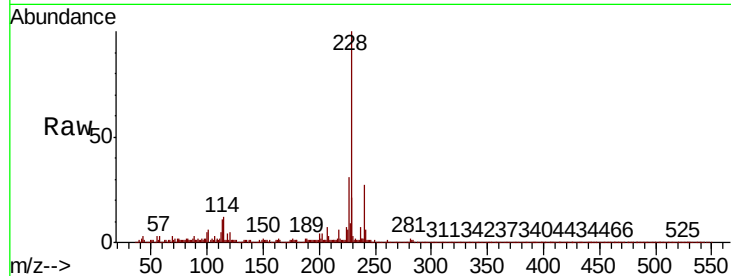
ClientSampleId :

RB47184-RT

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 366092 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.0  | 22.3  | 33.5   |
| 229       | 21.5  | 15.9  | 23.9   |

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#83

Chrysene

Concen: 8.507 ng

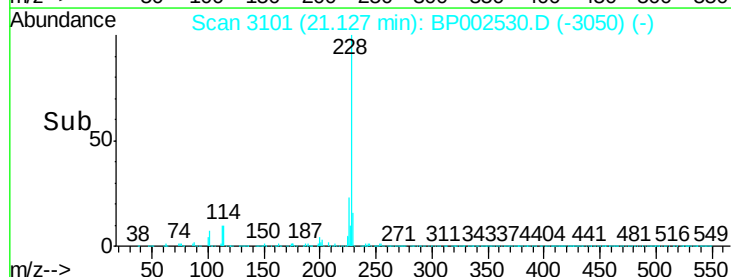
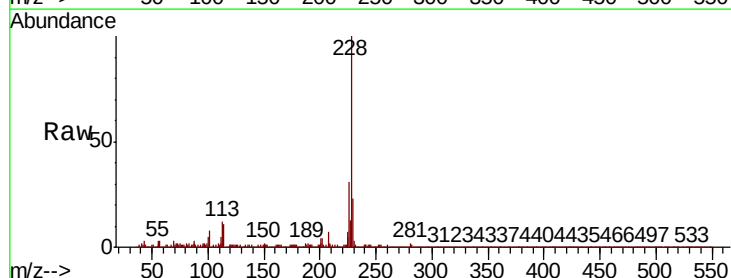
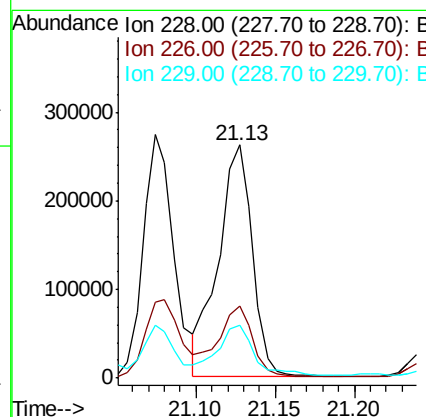
RT: 21.13 min Scan# 3101

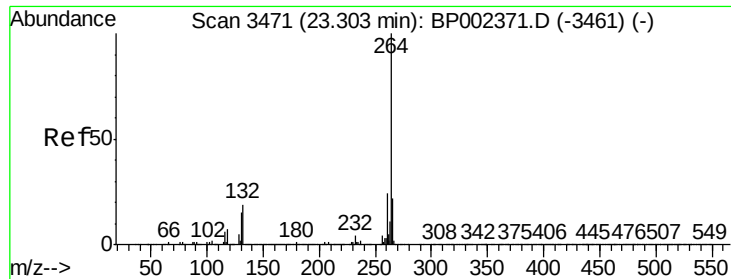
Delta R.T. 0.00 min

Lab File: BP002530.D

Acq: 24 Jun 2020 19:17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 388996 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.1  | 25.0  | 37.6   |
| 229       | 22.7  | 15.7  | 23.5   |





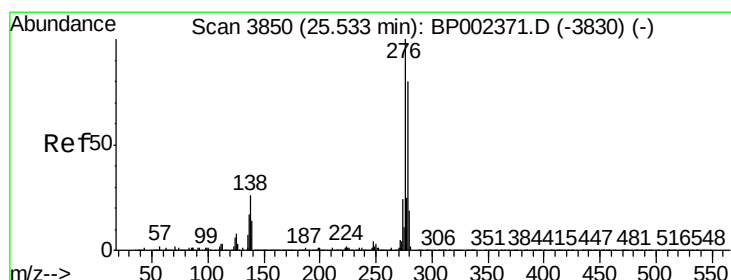
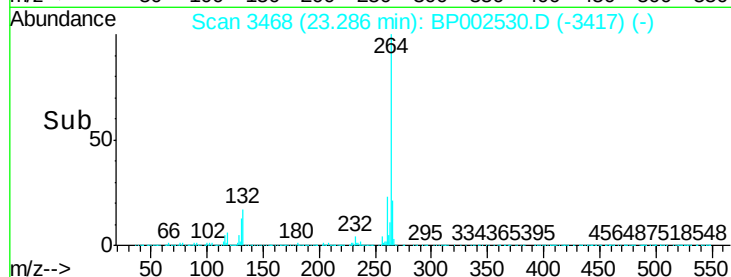
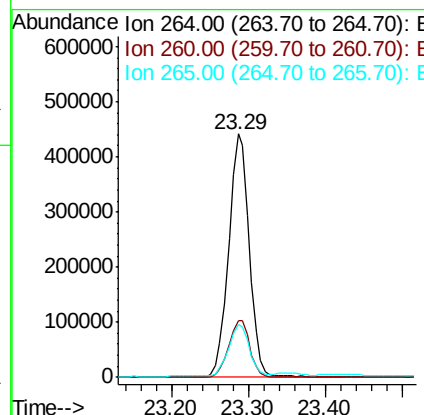
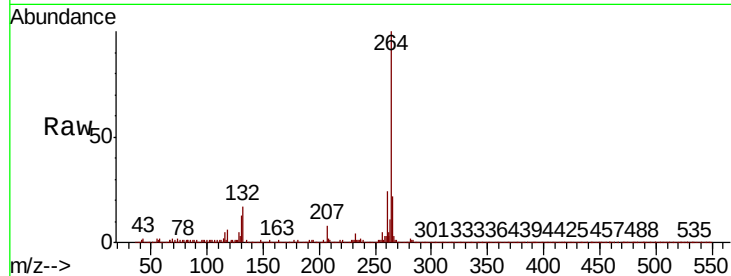
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 23.29 min Scan# 3468  
Delta R.T. 0.00 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

Instrument :  
BNA\_P  
ClientSampleId :  
RB47184-RT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.7  | 29.5  |
| 265     | 21.8  | 17.6  | 26.4  |

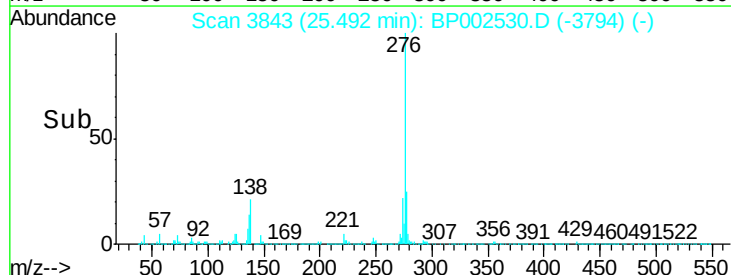
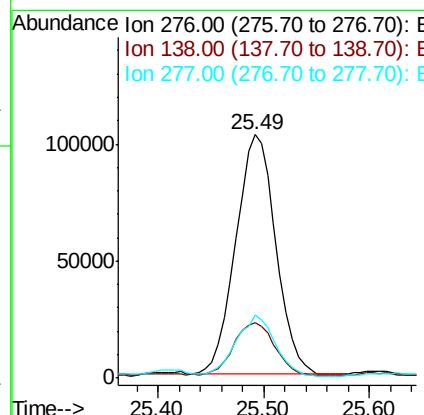
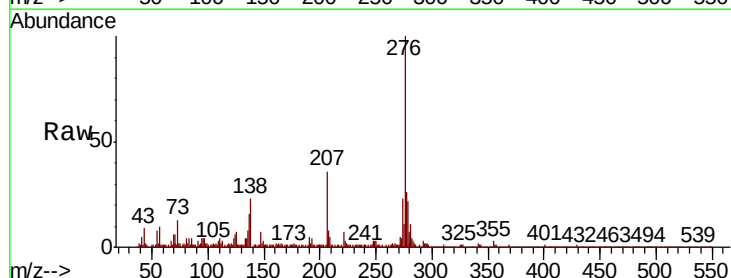
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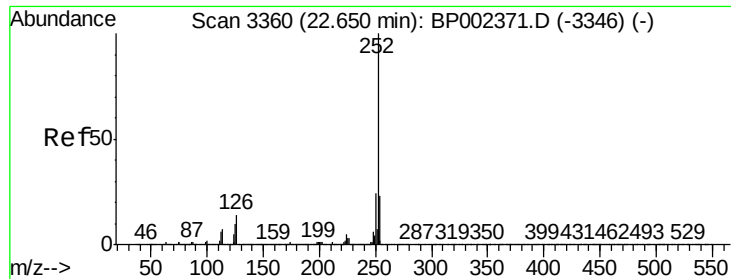
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#87  
Indeno(1,2,3-cd)pyrene  
Concen: 5.274 ng  
RT: 25.49 min Scan# 3843  
Delta R.T. -0.01 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.8  | 19.4  | 29.0  |
| 277     | 24.9  | 20.4  | 30.6  |





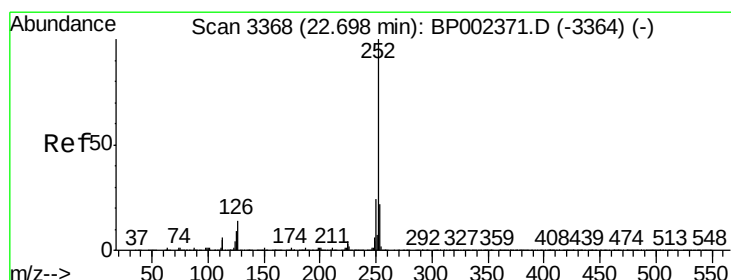
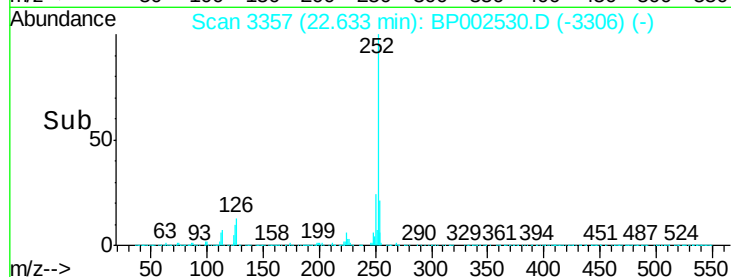
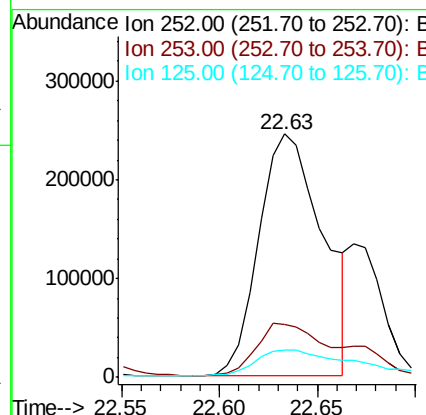
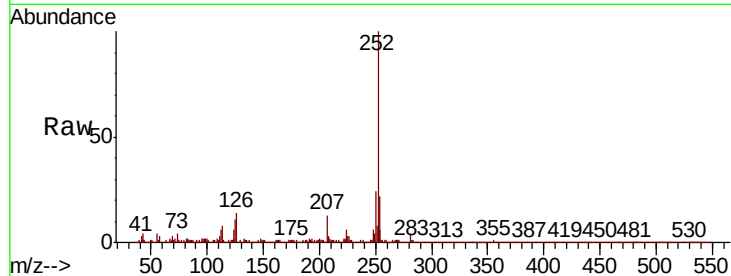
#88  
Benzo(b)fluoranthene  
Concen: 12.701 ng m  
RT: 22.63 min Scan# 3357  
Delta R.T. 0.00 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

Instrument :  
BNA\_P  
ClientSampleId :  
RB47184-RT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 18.1  | 27.1  |
| 125     | 11.1  | 7.5   | 11.3  |

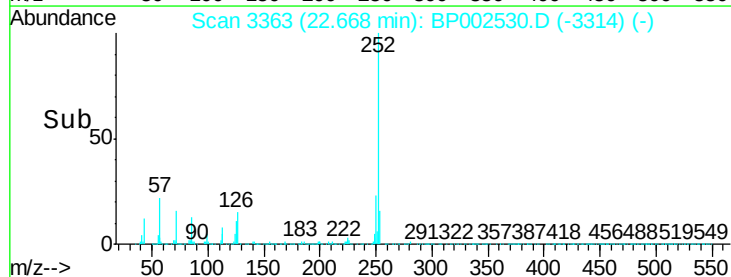
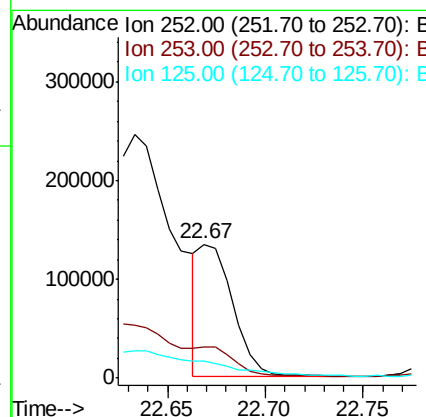
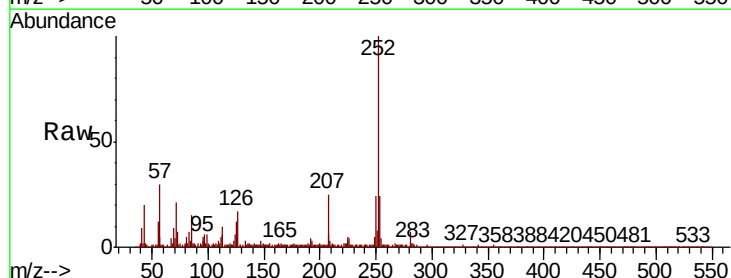
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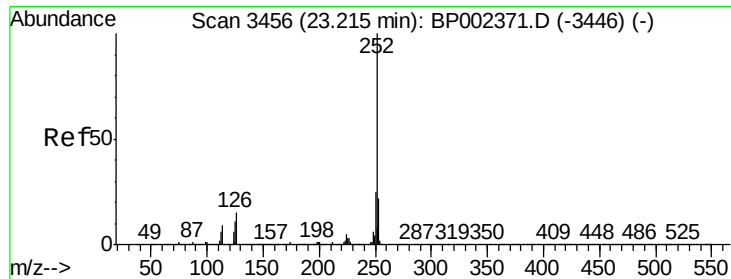
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#89  
Benzo(k)fluoranthene  
Concen: 3.773 ng m  
RT: 22.67 min Scan# 3363  
Delta R.T. -0.01 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.1  | 25.7  |
| 125     | 12.4  | 7.0   | 10.4  |





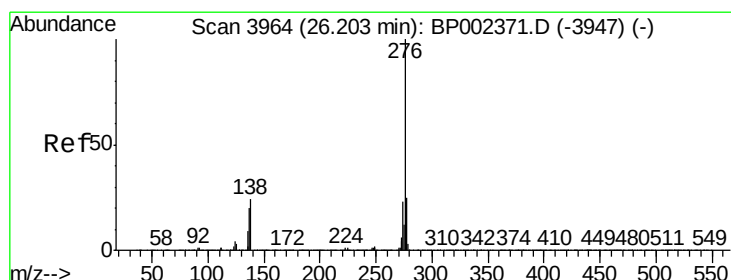
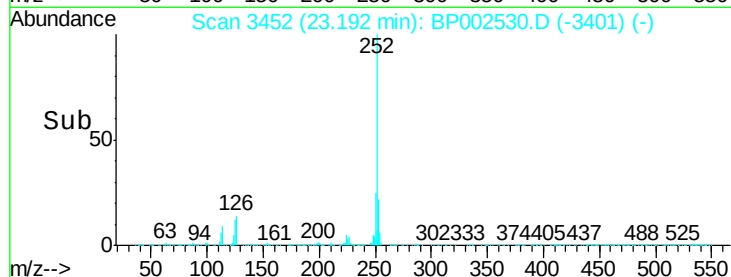
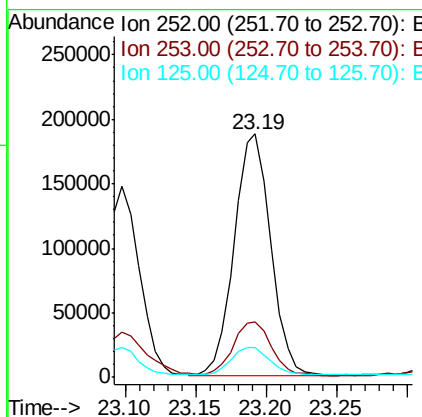
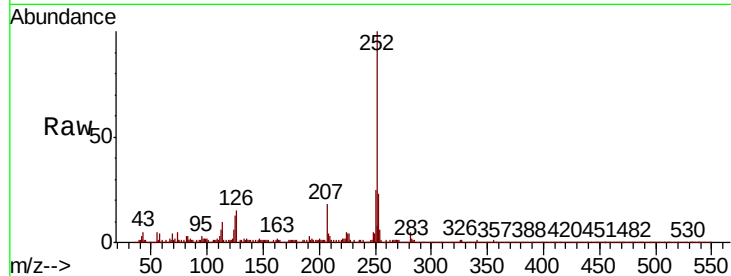
#90  
Benzo(a)pyrene  
Concen: 8.206 ng  
RT: 23.19 min Scan# 3452  
Delta R.T. 0.00 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

Instrument :  
BNA\_P  
ClientSampleId :  
RB47184-RT

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.2  | 27.4  |
| 125     | 12.5  | 8.7   | 13.1  |

Manual Integrations  
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#92  
Benzo(g,h,i)perylene  
Concen: 6.023 ng  
RT: 26.16 min Scan# 3957  
Delta R.T. -0.01 min  
Lab File: BP002530.D  
Acq: 24 Jun 2020 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.4  | 18.7  | 28.1  |
| 138     | 23.3  | 17.6  | 26.4  |

