

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050118\  
 Data File : BF105006.D  
 Acq On : 2 May 2018 2:52  
 Operator : JU/SJ  
 Sample : J2642-01  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WL-PH3-ZEO-01

Manual Integrations  
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Sohil  
 5/2/2018 4:22:12 PM

Quant Time: May 02 07:55:34 2018  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 01 16:13:08 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.79  | 152  | 128723   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.07  | 136  | 546920   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.83  | 164  | 247116   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.32 | 188  | 409708   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.00 | 240  | 282996   | 20.00  | ng    | 0.02     |
| 86) Perylene-d12            | 15.53 | 264  | 254475   | 20.00  | ng    | 0.10     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.40  | 112  | 587803   | 69.82  | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 715694   | 69.19  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 437097   | 52.19  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 159691   | 62.30  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 728361   | 46.56  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.91 | 244  | 513149   | 41.34  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.44  | 94   | 48865    | 4.452  | ng    | 95       |
| 31) Naphthalene             | 8.09  | 128  | 85184    | 3.128  | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.79  | 142  | 38618    | 2.192  | ng    | 99       |
| 48) Acenaphthylene          | 9.69  | 152  | 122006   | 4.742  | ng    | 99       |
| 49) Dimethylphthalate       | 9.55  | 163  | 99264    | 5.094  | ng    | 98       |
| 57) Fluorene                | 10.38 | 166  | 90151m   | 5.662  | ng    |          |
| 70) Phenanthrene            | 11.34 | 178  | 363493   | 15.931 | ng    | 99       |
| 71) Anthracene              | 11.40 | 178  | 49244    | 2.123  | ng    | 98       |
| 73) Di-n-butylphthalate     | 11.88 | 149  | 170317   | 6.152  | ng    | 99       |
| 74) Fluoranthene            | 12.54 | 202  | 92722    | 3.890  | ng    | 97       |
| 77) Pyrene                  | 12.77 | 202  | 97393    | 4.643  | ng    | 98       |

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

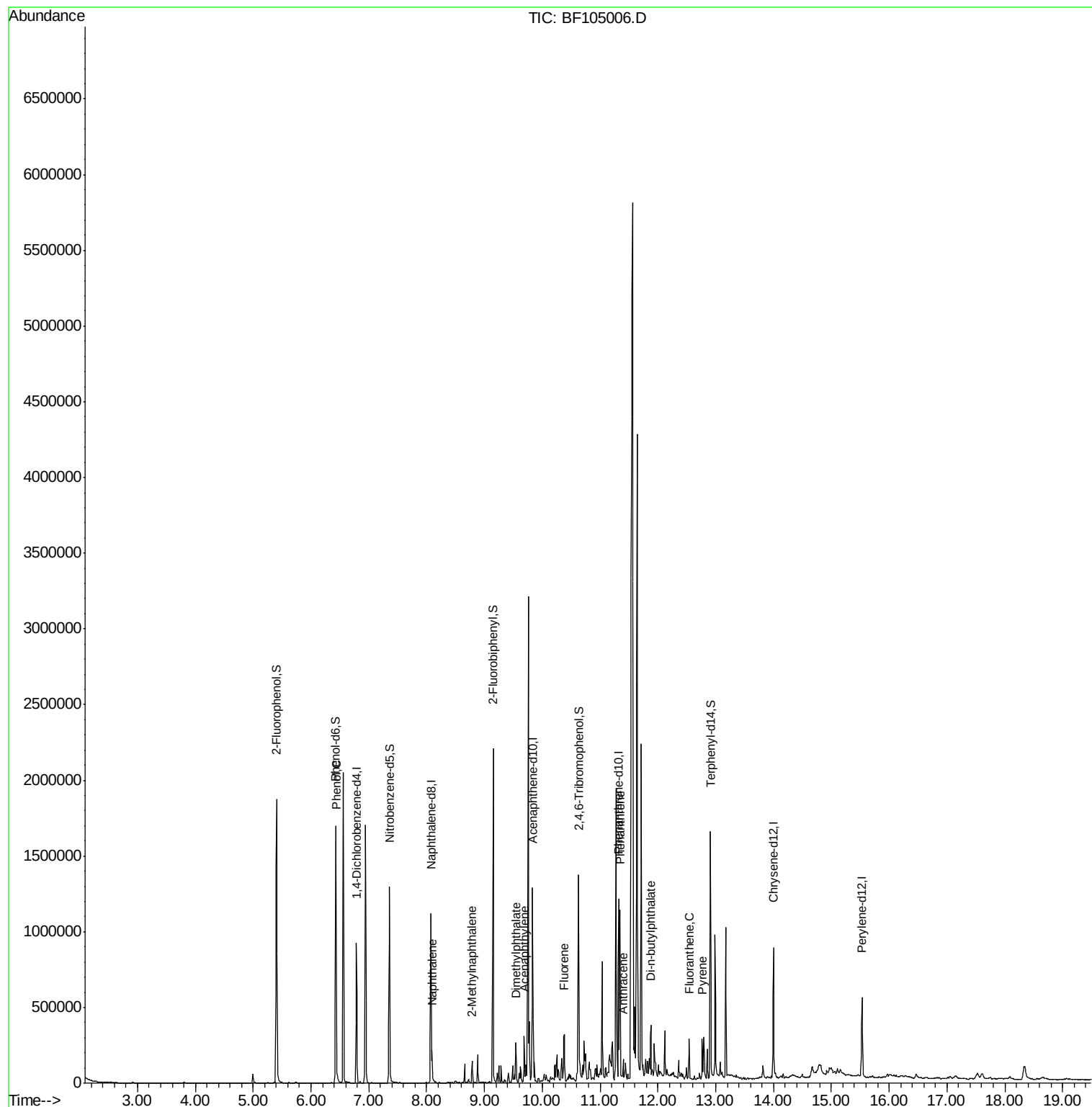
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050118\  
Data File : BF105006.D  
Acq On : 2 May 2018 2:52  
Operator : JU/SJ  
Sample : J2642-01  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

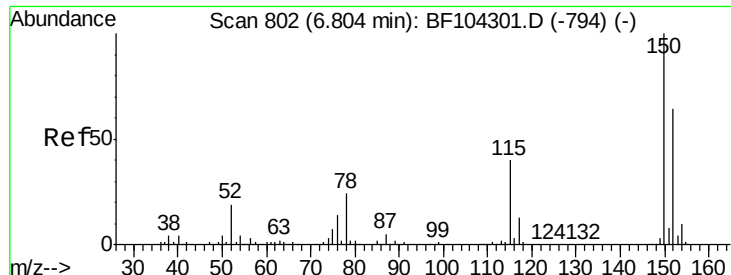
Instrument :  
BNA\_F  
ClientSampleId :  
WL-PH3-ZEO-01

Manual Integrations  
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Quant Time: May 02 07:55:34 2018  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 01 16:13:08 2018  
Response via : Initial Calibration





#1

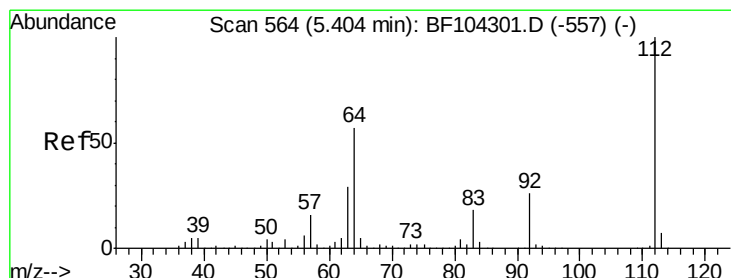
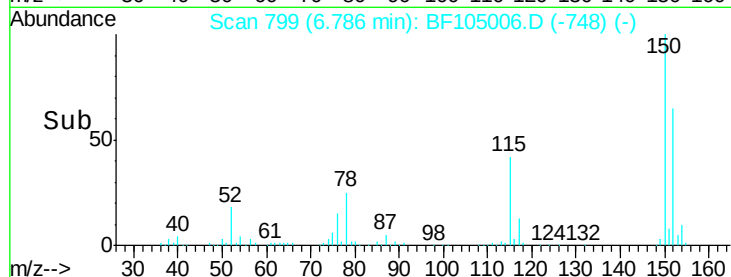
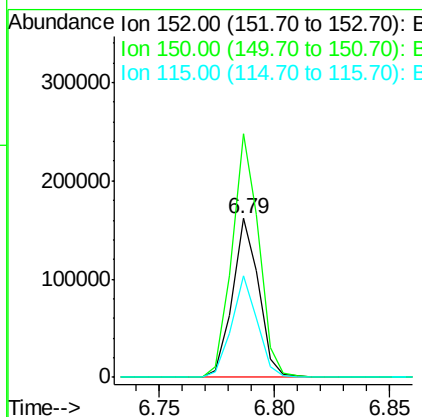
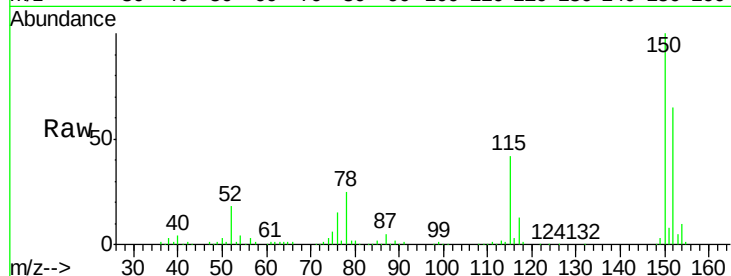
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 799  
Delta R.T. -0.00 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

Instrument :  
BNA\_F  
ClientSampleId :  
WL-PH3-ZEO-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.6 | 124.6 | 186.8 |
| 115     | 64.0  | 50.1  | 75.1  |

Manual Integrations  
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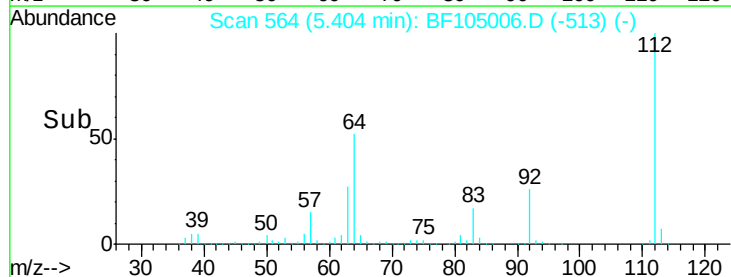
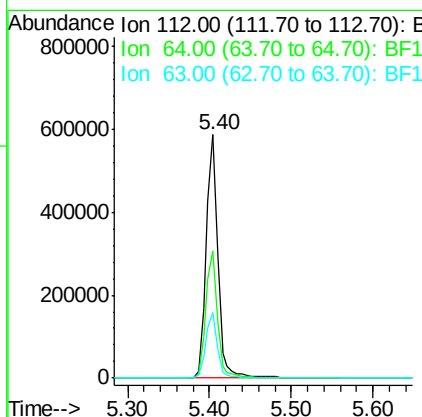
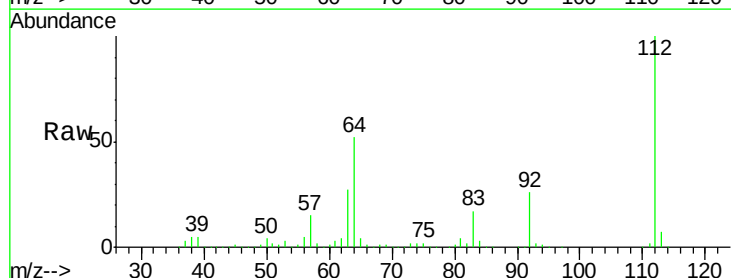
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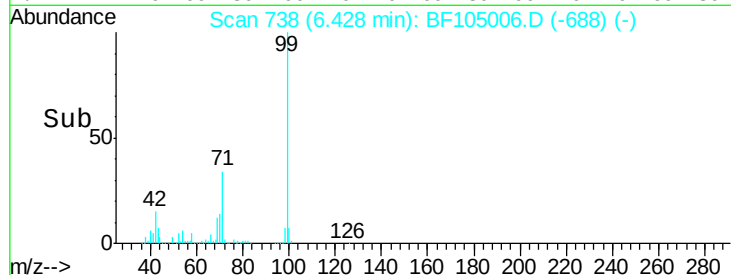
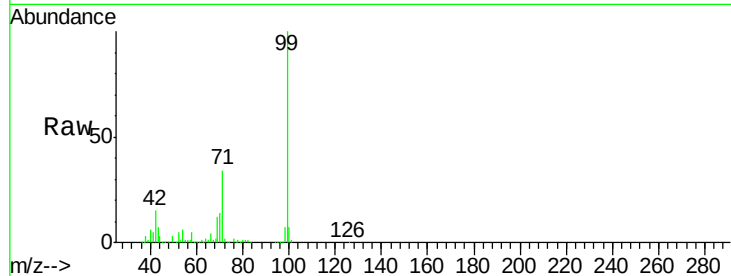
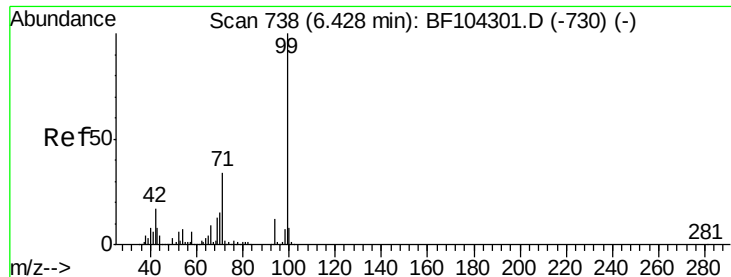


#5

2-Fluorophenol  
Concen: 69.823 ng  
RT: 5.40 min Scan# 564  
Delta R.T. -0.00 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.4  | 47.9  | 71.9  |
| 63      | 26.9  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 69.192 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF105006.D

Acq: 2 May 2018 2:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 715694 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 15.3  | 14.5  | 21.7   |
| 71        | 34.4  | 25.4  | 38.0   |

Instrument :

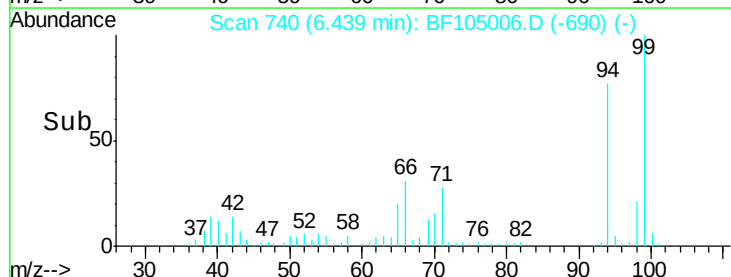
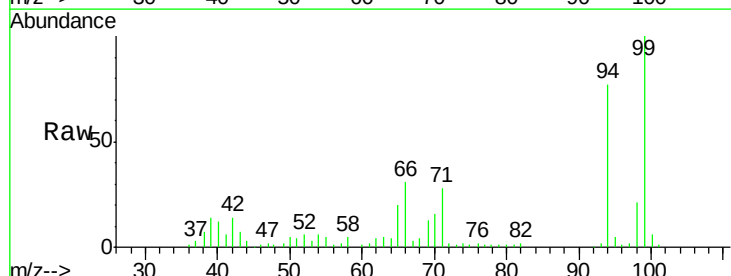
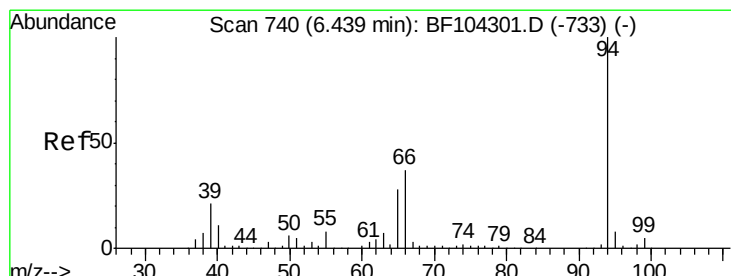
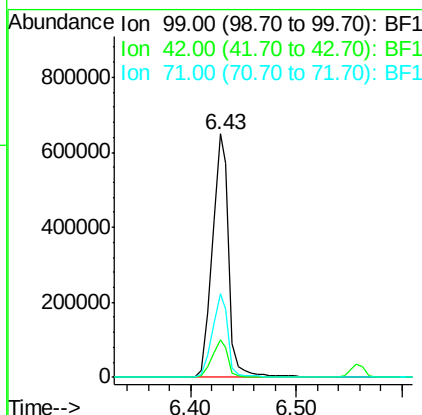
BNA\_F

ClientSampleId :

WL-PH3-ZEO-01

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#10

Phenol

Concen: 4.452 ng

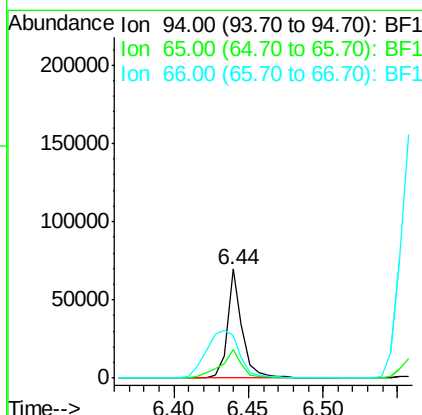
RT: 6.44 min Scan# 740

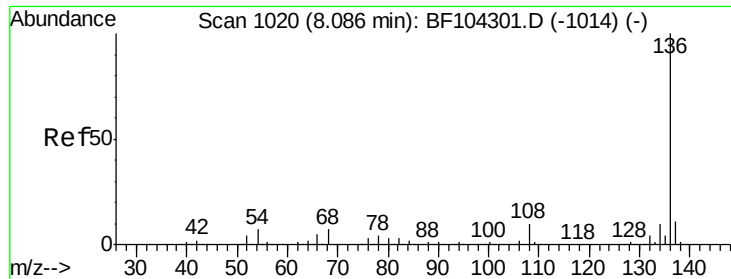
Delta R.T. -0.01 min

Lab File: BF105006.D

Acq: 2 May 2018 2:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 48865 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 25.9  | 7.9   | 47.9  |
| 66        | 39.8  | 16.2  | 56.2  |





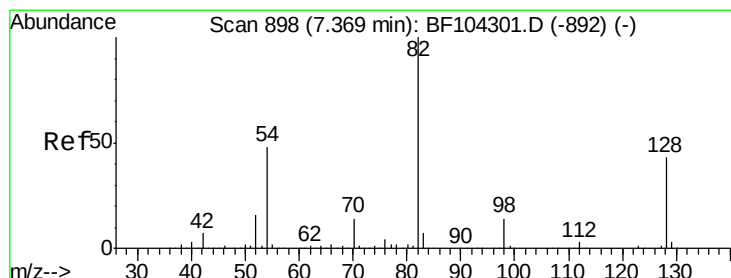
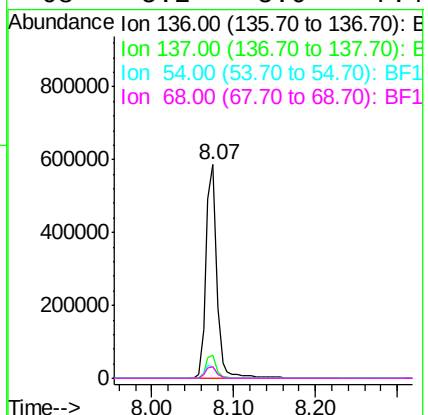
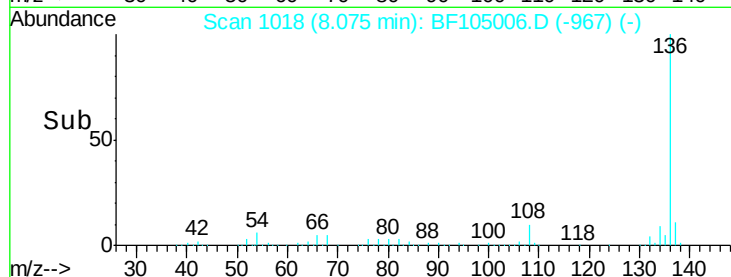
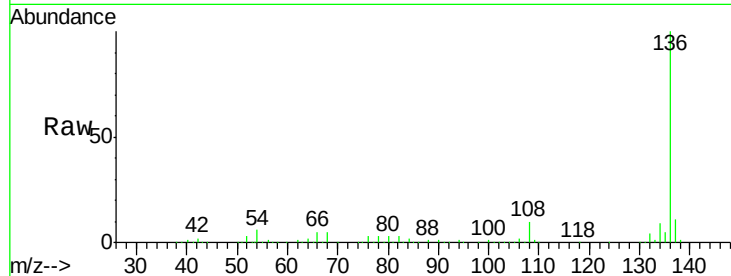
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1018  
Delta R.T. -0.00 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

Instrument :  
BNA\_F  
ClientSampleId :  
WL-PH3-ZEO-01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 136     | 100   |            |            |
| 137     | 10.7  | 8.9        | 13.3       |
| 54      | 5.6   | 6.6        | 9.8        |
| 68      | 5.2   | 5.0        | 7.4        |

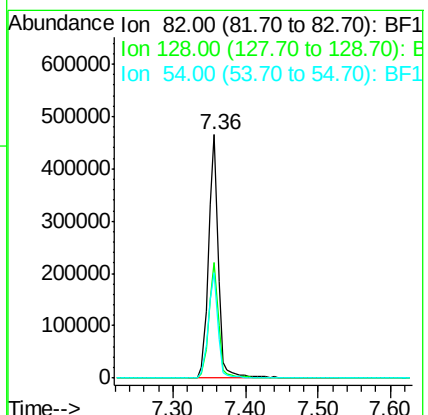
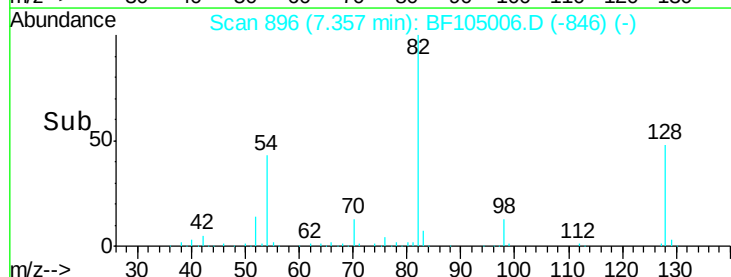
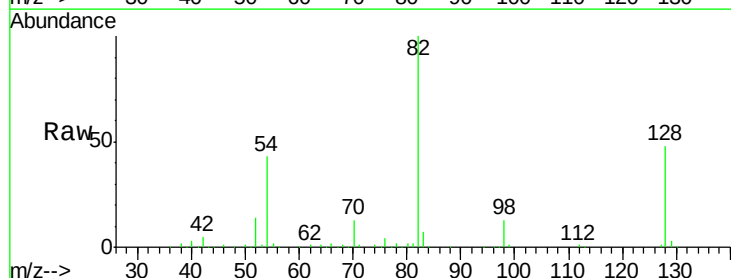
Manual Integrations  
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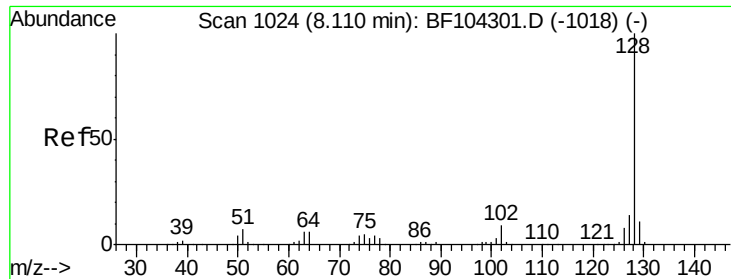
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#23  
Nitrobenzene-d5  
Concen: 52.186 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.01 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 82      | 100   |            |            |
| 128     | 47.7  | 36.1       | 54.1       |
| 54      | 43.3  | 41.4       | 62.2       |





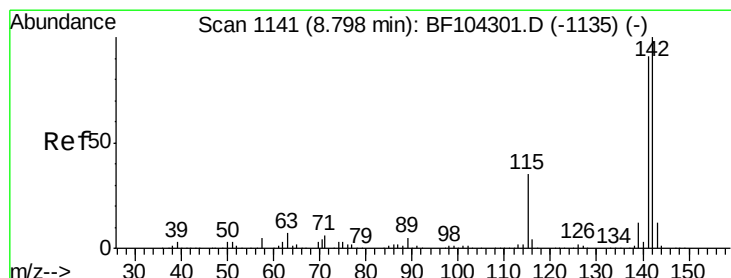
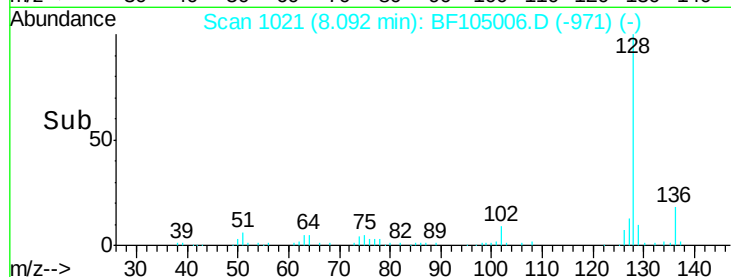
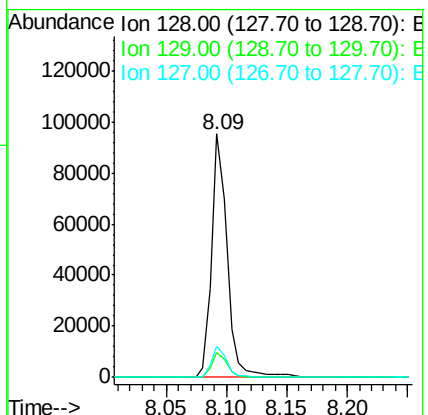
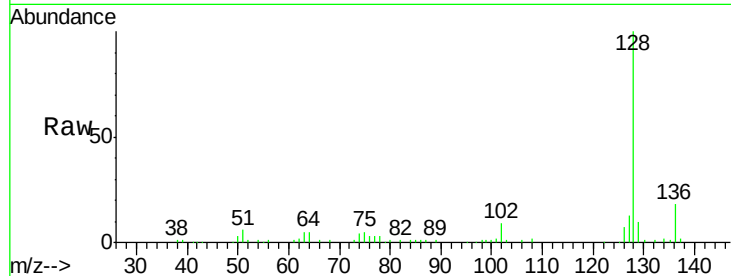
#31  
Naphthalene  
Concen: 3.128 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. -0.01 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

Instrument :  
BNA\_F  
ClientSampleId :  
WL-PH3-ZEO-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.3  | 8.8   | 13.2  |
| 127     | 12.9  | 10.9  | 16.3  |

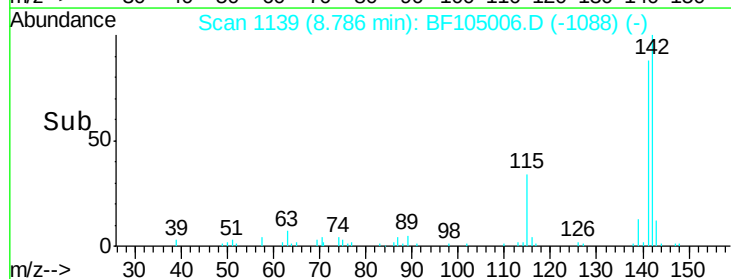
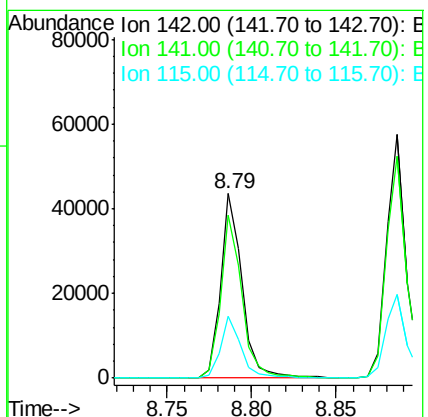
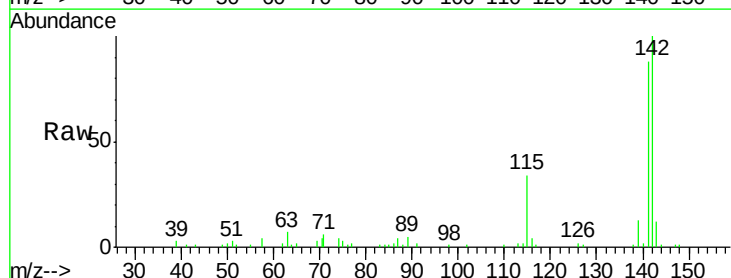
Manual Integrations  
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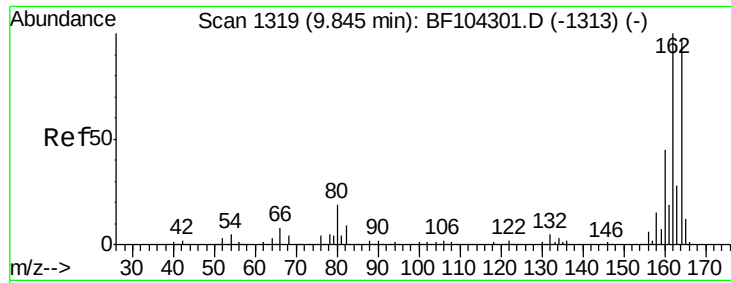
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#37  
2-Methylnaphthalene  
Concen: 2.192 ng  
RT: 8.79 min Scan# 1139  
Delta R.T. -0.00 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.4  | 70.8  | 106.2 |
| 115     | 33.6  | 26.1  | 39.1  |





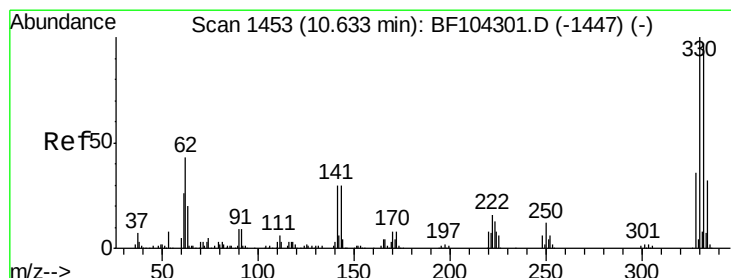
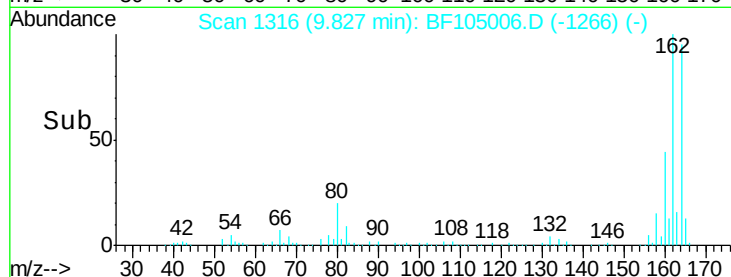
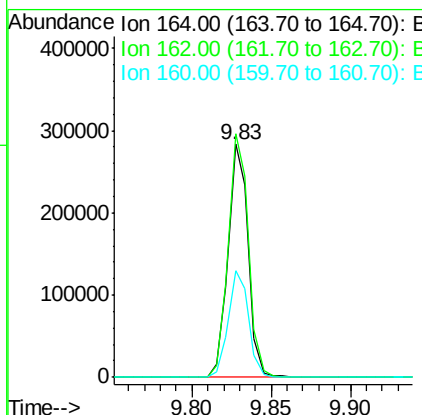
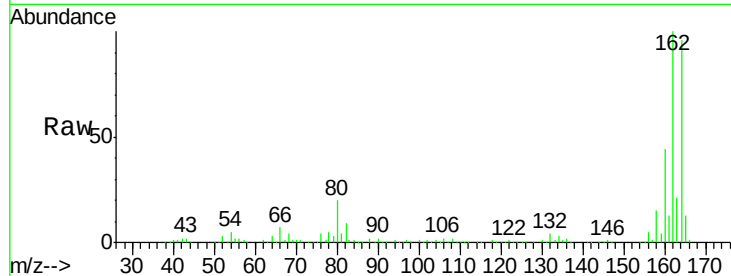
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 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.83 min Scan# 1316  
 Delta R.T. -0.01 min  
 Lab File: BF105006.D  
 Acq: 2 May 2018 2:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WL-PH3-ZEO-01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 247116 |       |       |
| 162     | 104.5 | 86.1   | 129.1 |       |
| 160     | 45.8  | 38.3   | 57.5  |       |

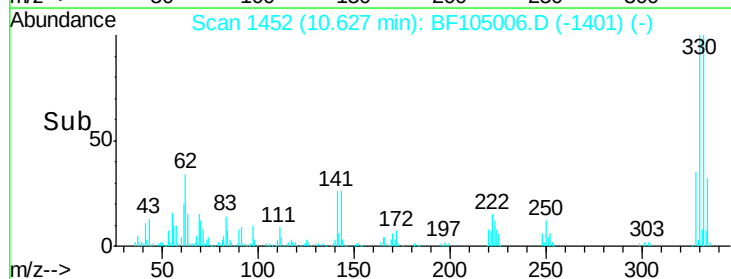
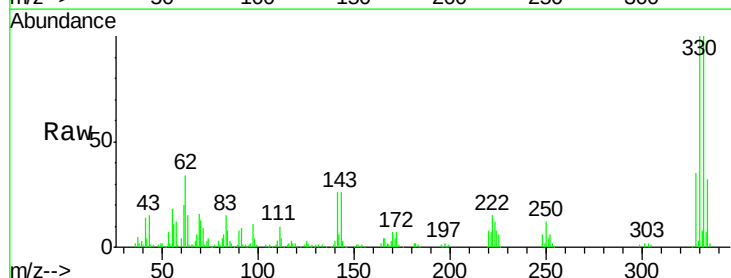
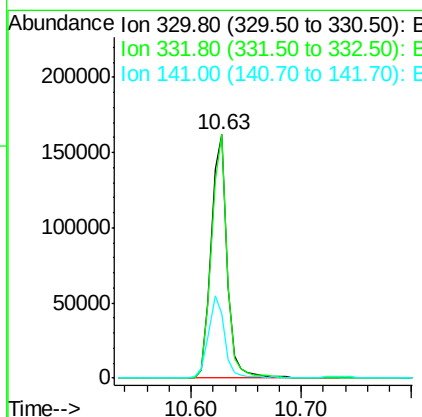
Manual Integrations  
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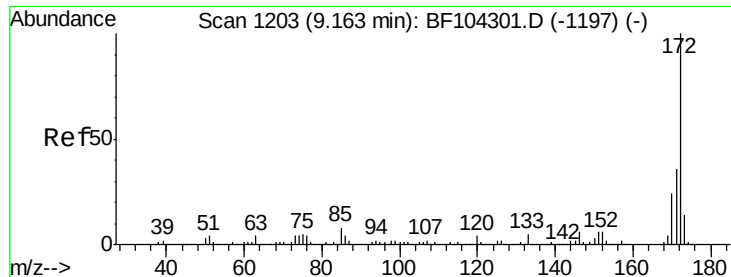
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#41  
 2,4,6-Tribromophenol  
 Concen: 62.297 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. -0.00 min  
 Lab File: BF105006.D  
 Acq: 2 May 2018 2:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 159691 |       |       |
| 332     | 97.7  | 77.0   | 115.6 |       |
| 141     | 33.9  | 29.9   | 44.9  |       |





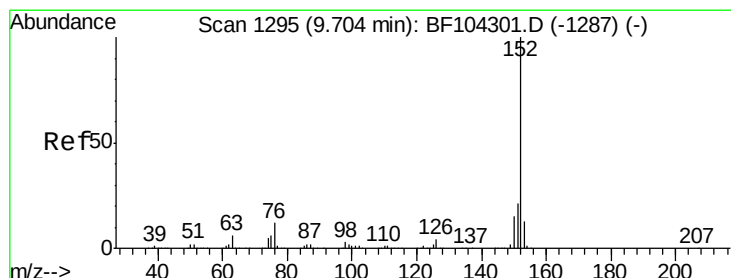
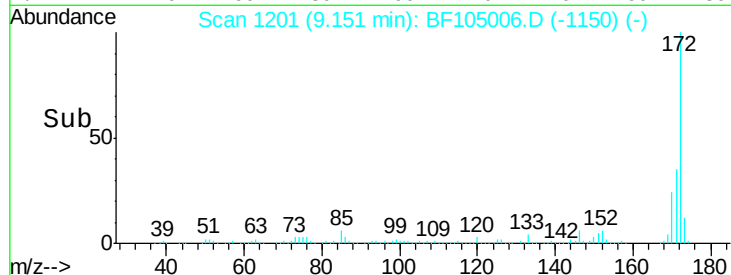
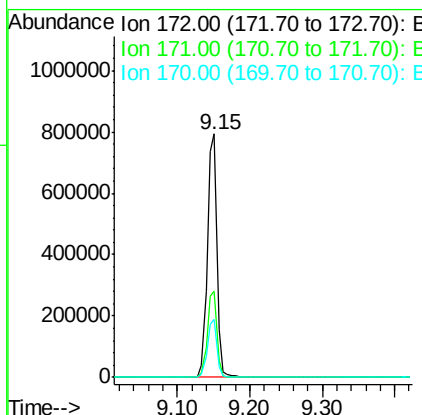
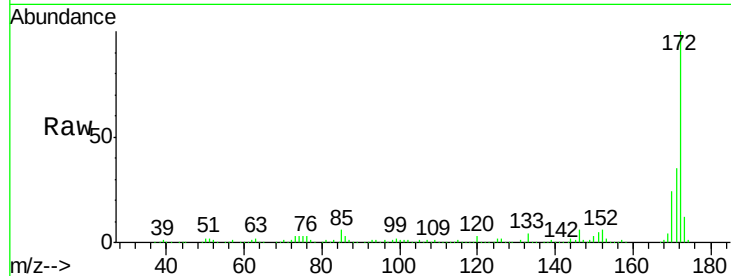
#44  
2-Fluorobiphenyl  
Concen: 46.562 ng  
RT: 9.15 min Scan# 1201  
Delta R.T. -0.00 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

Instrument :  
BNA\_F  
ClientSampleId :  
WL-PH3-ZEO-01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 728361 |       |       |
| 171     | 35.3  | 29.7   | 44.5  |       |
| 170     | 23.6  | 19.6   | 29.4  |       |

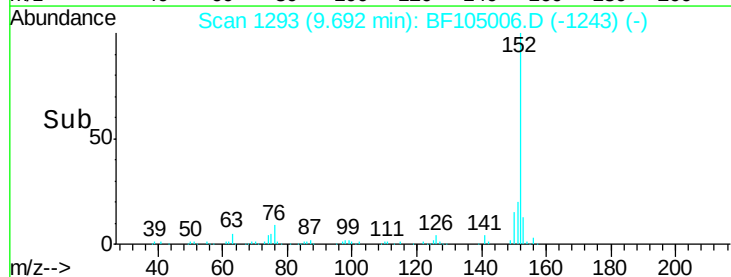
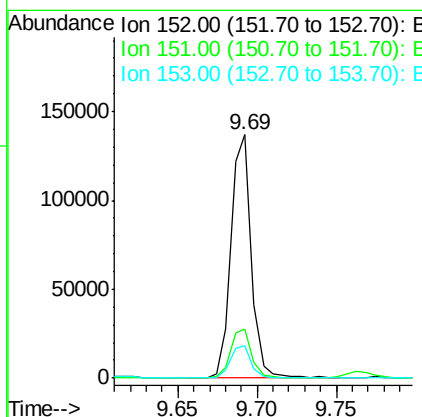
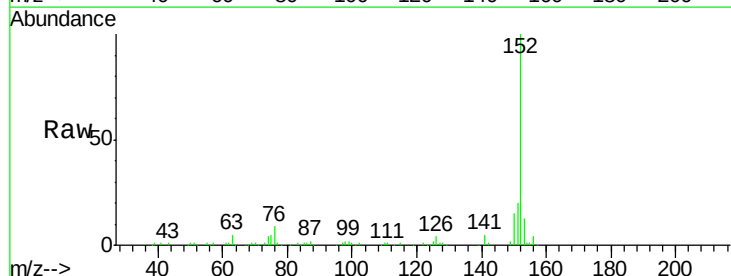
Manual Integrations  
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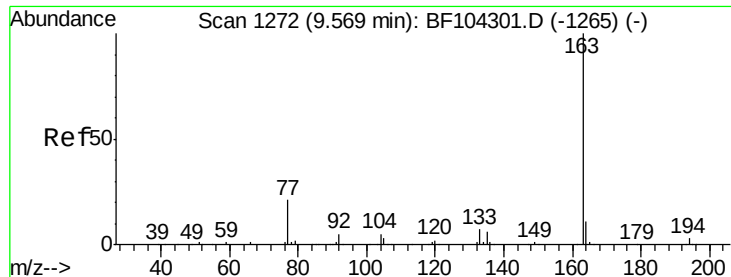


#48  
Acenaphthylene  
Concen: 4.742 ng  
RT: 9.69 min Scan# 1293  
Delta R.T. -0.01 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 122006 |       |       |
| 151     | 20.0  | 16.3   | 24.5  |       |
| 153     | 13.2  | 10.7   | 16.1  |       |







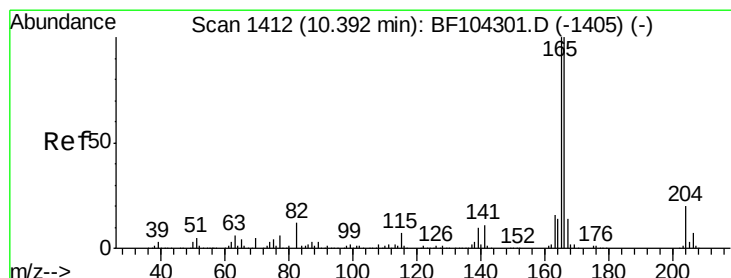
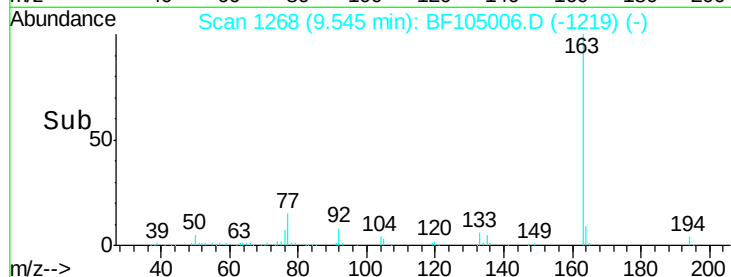
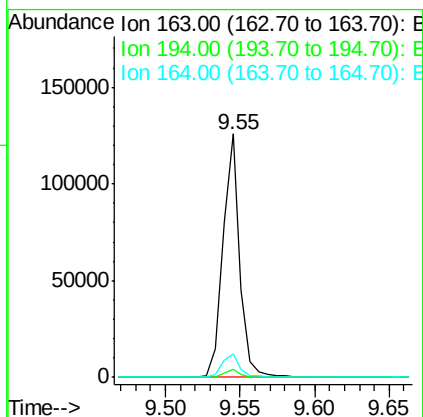
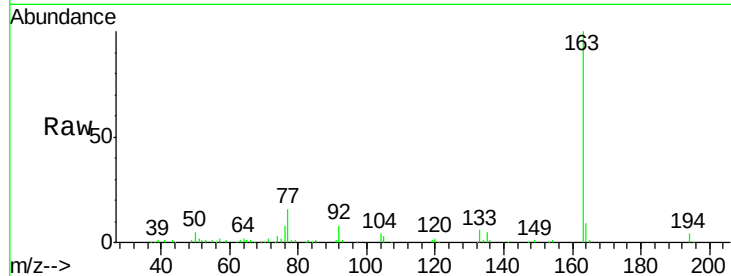
#49  
Dimethylphthalate  
Concen: 5.094 ng  
RT: 9.55 min Scan# 1268  
Delta R.T. -0.01 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

Instrument :  
BNA\_F  
ClientSampleId :  
WL-PH3-ZEO-01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 99264 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.6   | 2.7   | 4.1   |
| 164       | 9.5   | 8.2   | 12.2  |

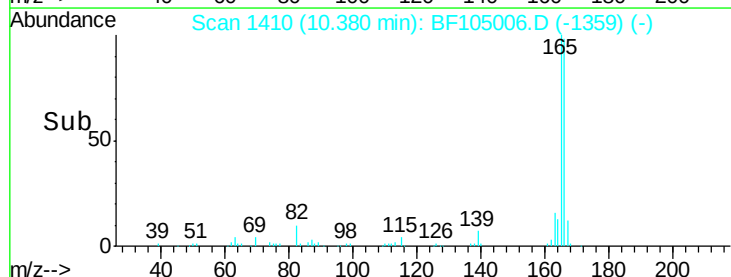
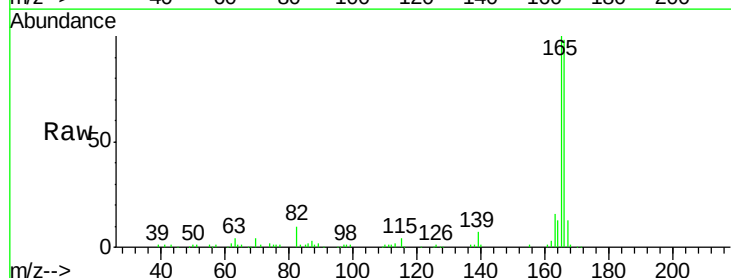
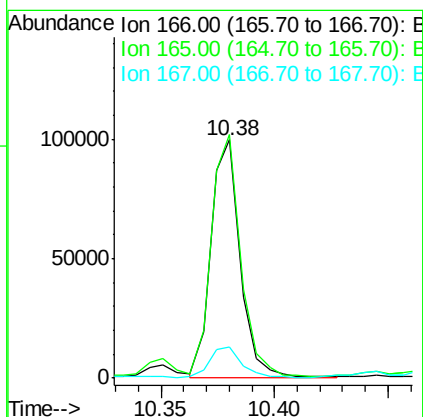
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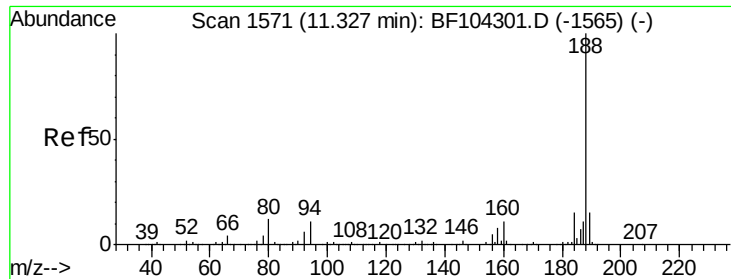
Sohil  
5/2/2018 4:22:12 PM



#57  
Fluorene  
Concen: 5.662 ng m  
RT: 10.38 min Scan# 1410  
Delta R.T. -0.00 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 90151 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 102.3 | 79.8  | 119.8 |
| 167       | 13.1  | 10.6  | 16.0  |





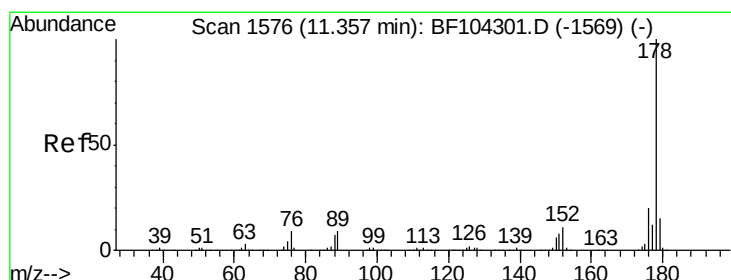
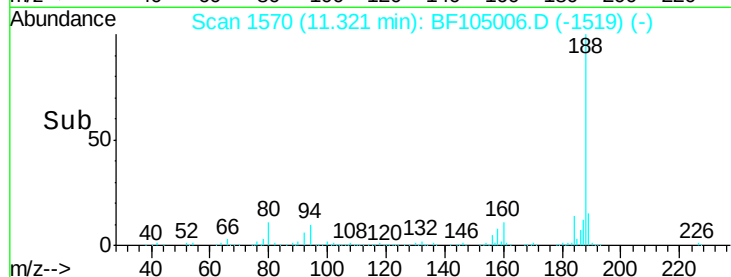
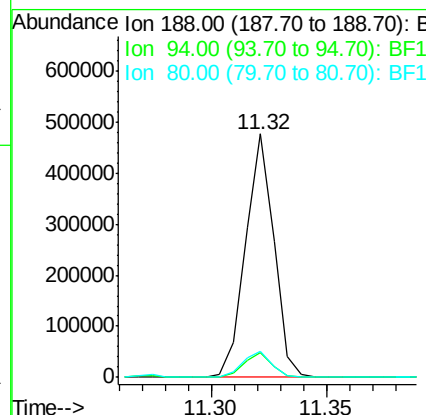
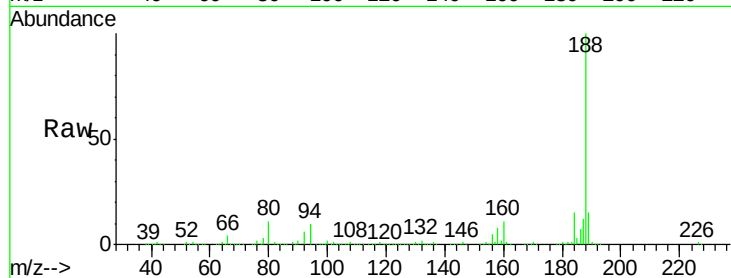
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.00 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

Instrument :  
BNA\_F  
ClientSampleId :  
WL-PH3-ZEO-01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 409708 |       |       |
| 94      | 10.0  |        | 8.5   | 12.7  |
| 80      | 10.7  |        | 9.2   | 13.8  |

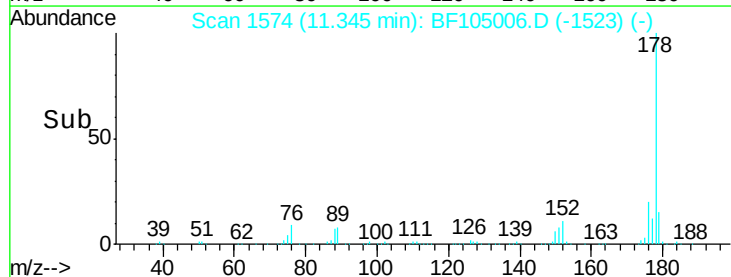
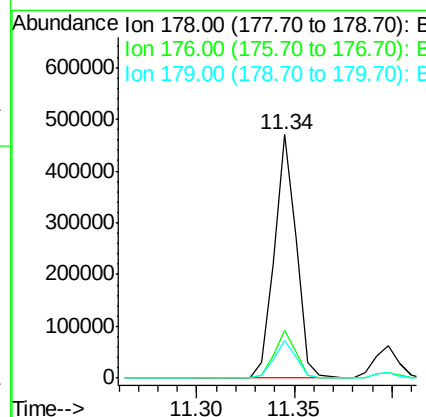
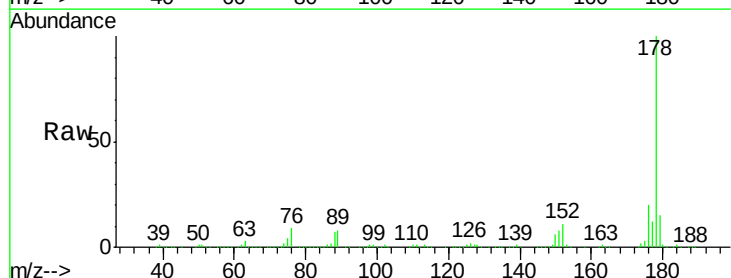
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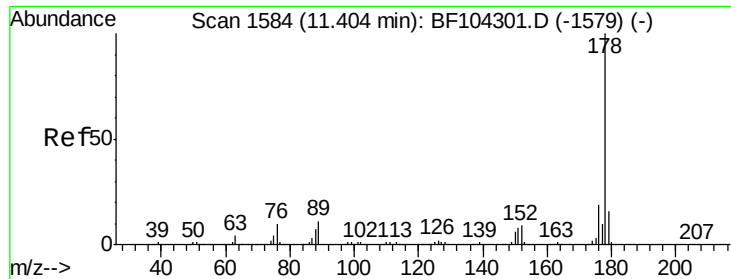
Sohil  
5/2/2018 4:22:12 PM



#70  
Phenanthrene  
Concen: 15.931 ng  
RT: 11.34 min Scan# 1574  
Delta R.T. -0.00 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 363493 |       |       |
| 176     | 19.5  |        | 15.8  | 23.8  |
| 179     | 15.3  |        | 13.0  | 19.6  |





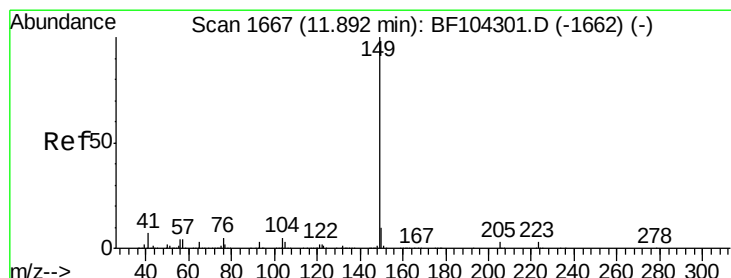
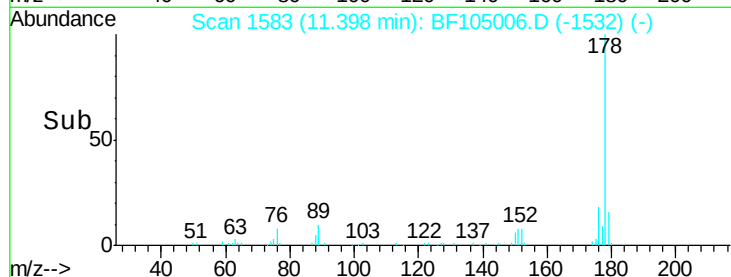
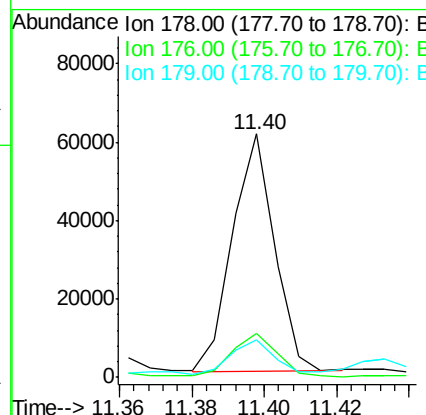
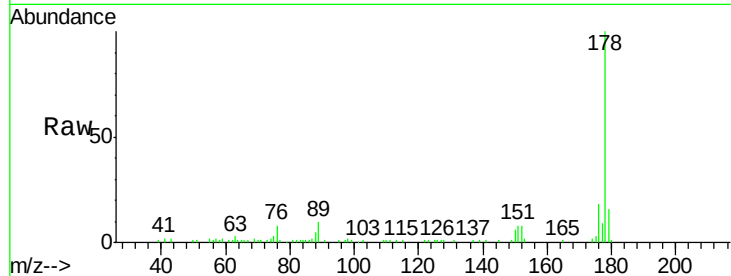
#71  
 Anthracene  
 Concen: 2.123 ng  
 RT: 11.40 min Scan# 1583  
 Delta R.T. -0.00 min  
 Lab File: BF105006.D  
 Acq: 2 May 2018 2:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WL-PH3-ZEO-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.2  | 15.4  | 23.2  |
| 179     | 15.5  | 12.6  | 19.0  |

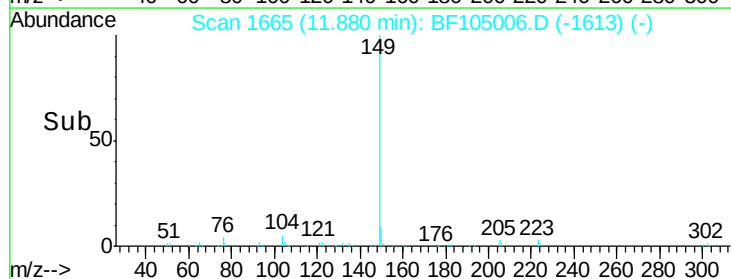
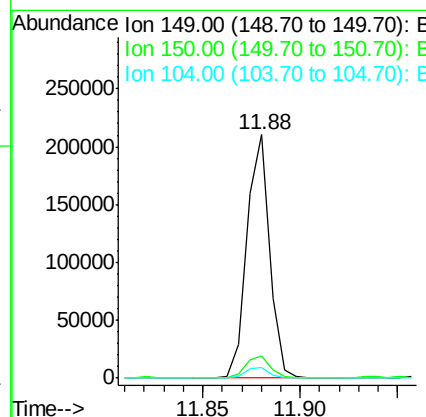
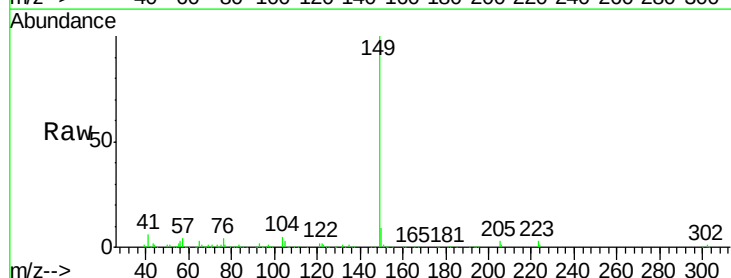
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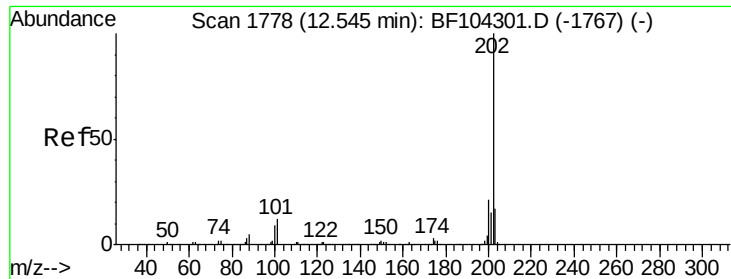
Sohil  
 5/2/2018 4:22:12 PM



#73  
 Di-n-butylphthalate  
 Concen: 6.152 ng  
 RT: 11.88 min Scan# 1665  
 Delta R.T. 0.01 min  
 Lab File: BF105006.D  
 Acq: 2 May 2018 2:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.1   | 7.8   | 11.6  |
| 104     | 4.5   | 3.8   | 5.8   |





#74

Fluoranthene

Concen: 3.890 ng

RT: 12.54 min Scan# 1777

Delta R.T. -0.00 min

Lab File: BF105006.D

Acq: 2 May 2018 2:52

Instrument :

BNA\_F

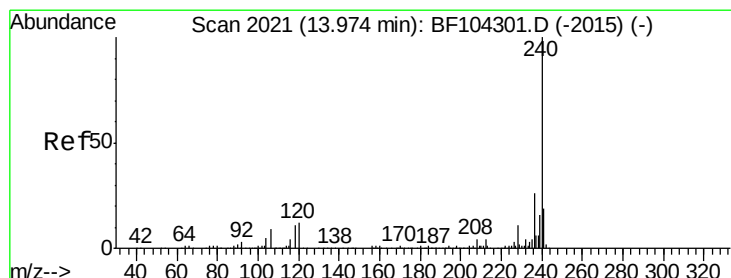
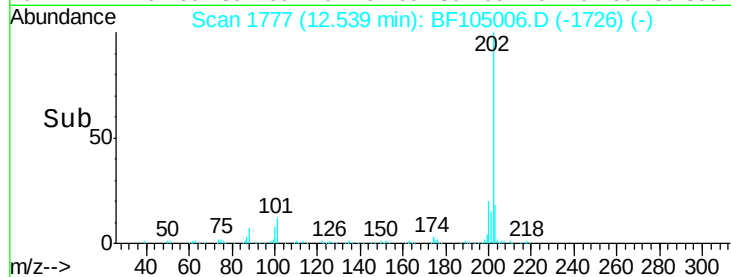
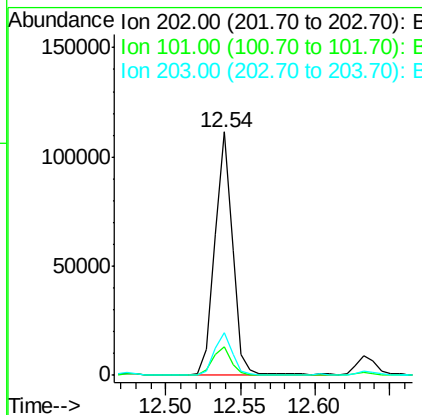
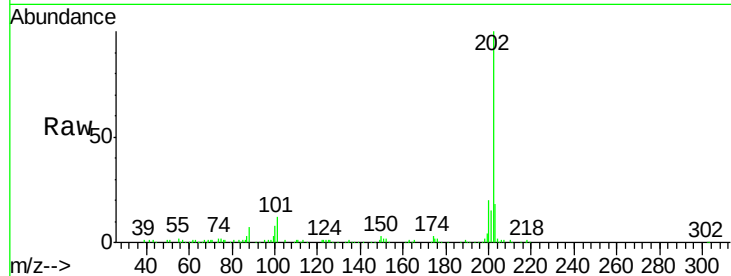
ClientSampleId :

WL-PH3-ZEO-01

| Tgt | Ion  | Ratio | Resp  | Lower | Upper |
|-----|------|-------|-------|-------|-------|
| 202 | 100  |       | 92722 |       |       |
| 101 | 12.0 | 0.0   | 34.1  |       |       |
| 203 | 17.5 | 0.0   | 38.1  |       |       |

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#75

Chrysene-d12

Concen: 20.000 ng

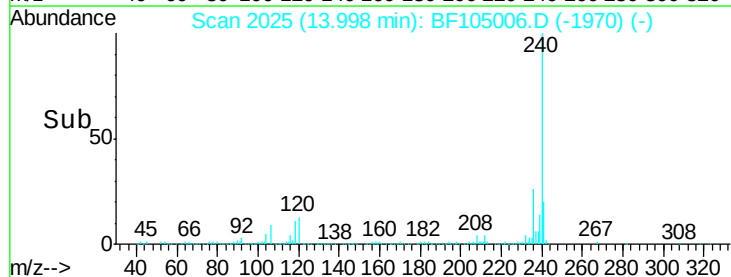
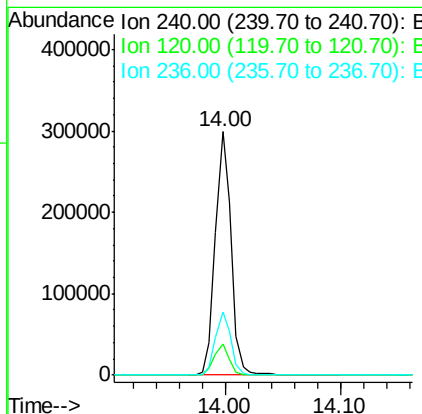
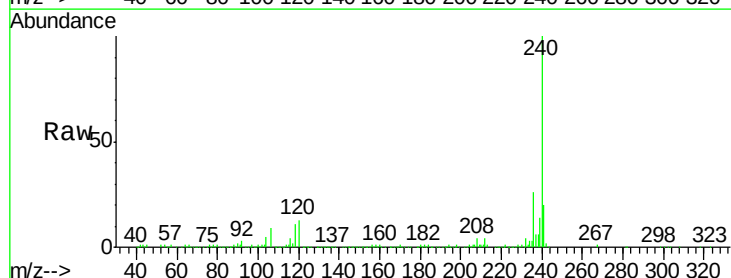
RT: 14.00 min Scan# 2025

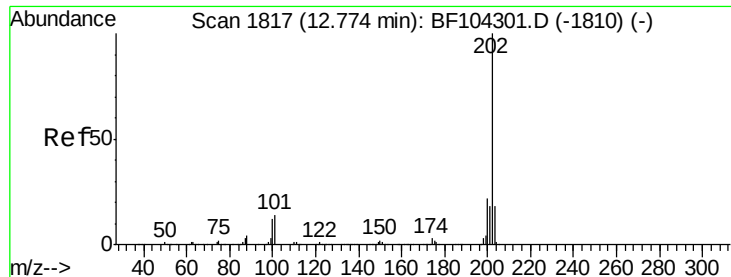
Delta R.T. 0.02 min

Lab File: BF105006.D

Acq: 2 May 2018 2:52

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 240 | 100  |       | 282996 |       |       |
| 120 | 12.6 | 9.5   | 14.3   |       |       |
| 236 | 25.9 | 20.7  | 31.1   |       |       |





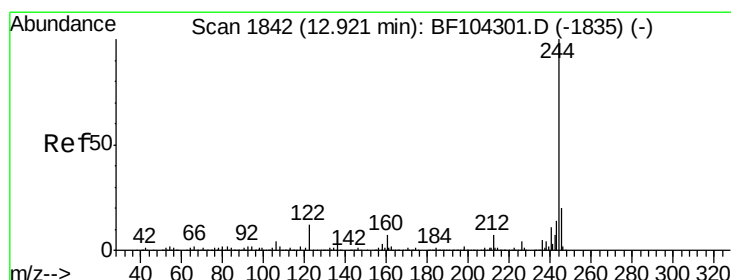
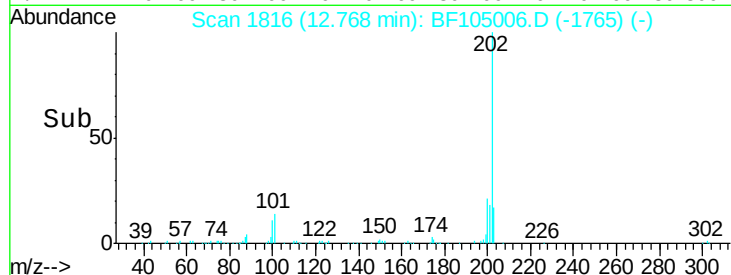
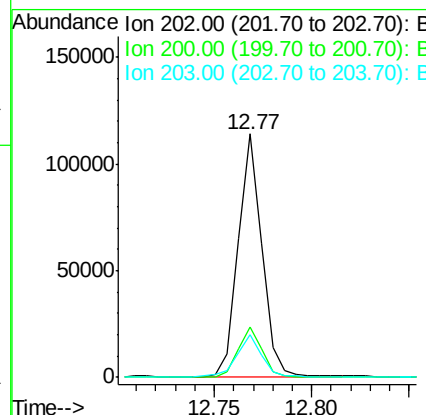
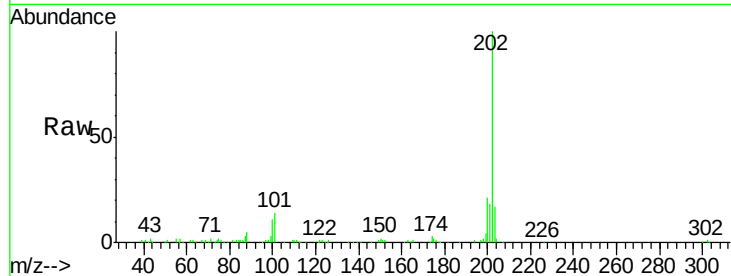
#77  
 Pyrene  
 Concen: 4.643 ng  
 RT: 12.77 min Scan# 1816  
 Delta R.T. -0.00 min  
 Lab File: BF105006.D  
 Acq: 2 May 2018 2:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WL-PH3-ZEO-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 17.4  | 26.2  |
| 203     | 17.3  | 14.3  | 21.5  |

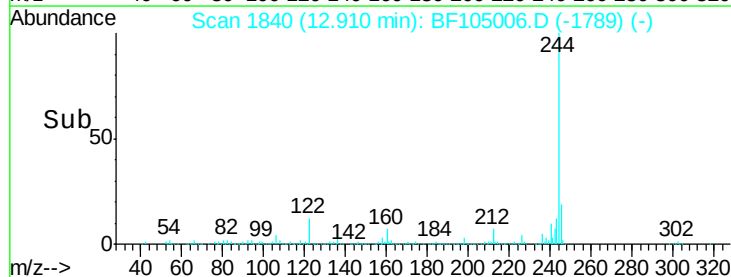
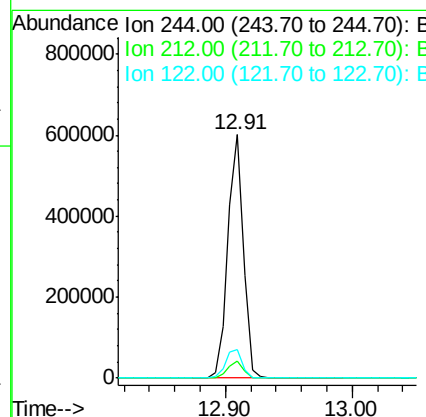
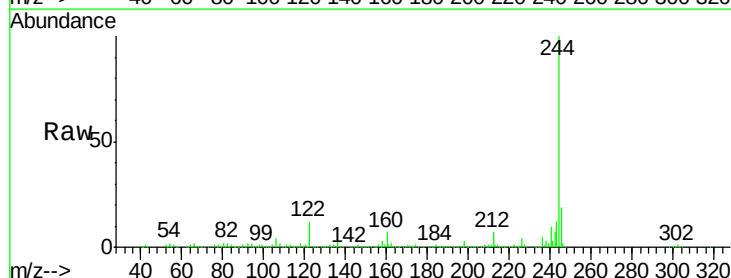
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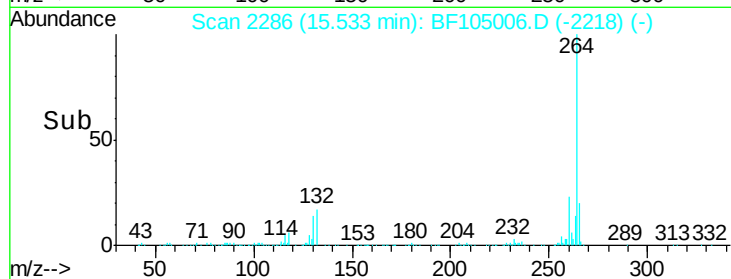
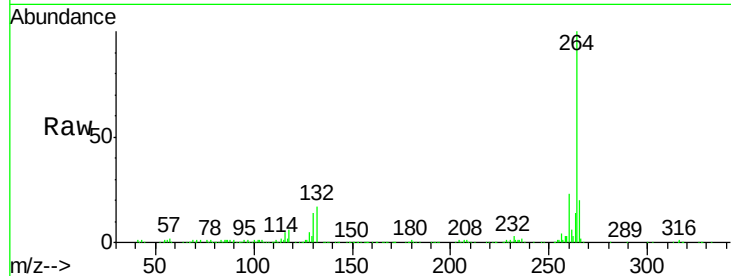
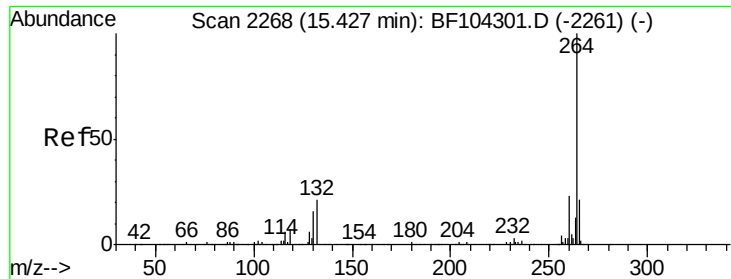
Sohil  
 5/2/2018 4:22:12 PM



#78  
 Terphenyl-d14  
 Concen: 41.340 ng  
 RT: 12.91 min Scan# 1840  
 Delta R.T. -0.00 min  
 Lab File: BF105006.D  
 Acq: 2 May 2018 2:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 5.4   | 8.0   |
| 122     | 11.6  | 11.0  | 16.4  |





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.53 min Scan# 2286  
Delta R.T. 0.10 min  
Lab File: BF105006.D  
Acq: 2 May 2018 2:52

Instrument :  
BNA\_F  
ClientSampleId :  
WL-PH3-ZEO-01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 264     | 100   |            |            |
| 260     | 22.7  | 19.2       | 28.8       |
| 265     | 19.9  | 17.5       | 26.3       |

Manual Integrations  
APPROVED

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