

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\  
 Data File : BF109062.D  
 Acq On : 17 Sep 2018 21:36  
 Operator : JU/SJ  
 Sample : J4936-19  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 138-KV-2

Manual Integrations  
 APPROVED

Sohil  
 9/18/2018 6:00:22 PM

Quant Time: Sep 18 05:34:20 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 14 13:26:52 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 147541   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.00  | 136  | 540231   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.75  | 164  | 249318   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.23 | 188  | 434317   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.85 | 240  | 317141   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.26 | 264  | 296582   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 628688   | 70.77  | ng    | 0.00     |
| 7) Phenol-d6                | 6.35  | 99   | 808554   | 70.59  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 521276   | 54.12  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330  | 168844   | 62.40  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.08  | 172  | 795492   | 49.99  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.81 | 244  | 571107   | 42.68  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 8.02  | 128  | 121591   | 4.849  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.71  | 142  | 103071   | 6.306  | ng    | 99       |
| 49) Dimethylphthalate       | 9.47  | 163  | 146470   | 8.220  | ng    | 99       |
| 70) Phenanthrene            | 11.25 | 178  | 165666   | 7.781  | ng    | 98       |
| 74) Fluoranthene            | 12.44 | 202  | 214058   | 9.524  | ng    | 95       |
| 77) Pyrene                  | 12.66 | 202  | 193282   | 8.205  | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.84 | 228  | 126393   | 6.583  | ng    | 98       |
| 82) Chrysene                | 13.88 | 228  | 124624   | 6.487  | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.60 | 276  | 82491    | 5.371  | ng    | # 87     |
| 87) Benzo(b)fluoranthene    | 14.86 | 252  | 183928m  | 11.210 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.88 | 252  | 55757m   | 3.638  | ng    |          |
| 89) Benzo(a)pyrene          | 15.20 | 252  | 125391   | 8.605  | ng    | 98       |
| 91) Benzo(a,h,i)perylene    | 17.01 | 276  | 73670    | 6.019  | ng    | 96       |

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

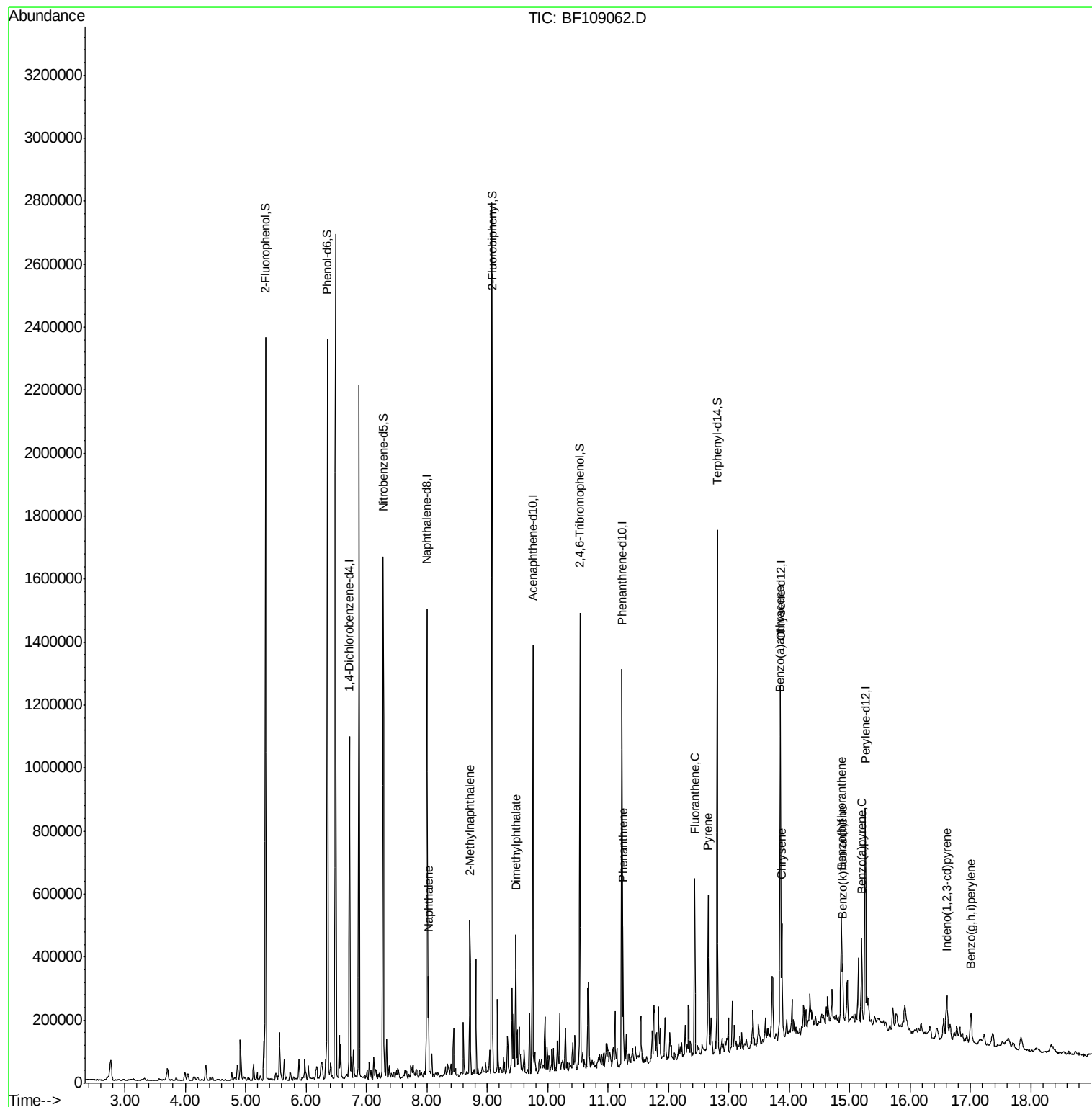
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\  
Data File : BF109062.D  
Acq On : 17 Sep 2018 21:36  
Operator : JU/SJ  
Sample : J4936-19  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
138-KV-2

Quant Time: Sep 18 05:34:20 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 14 13:26:52 2018  
Response via : Initial Calibration

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#1

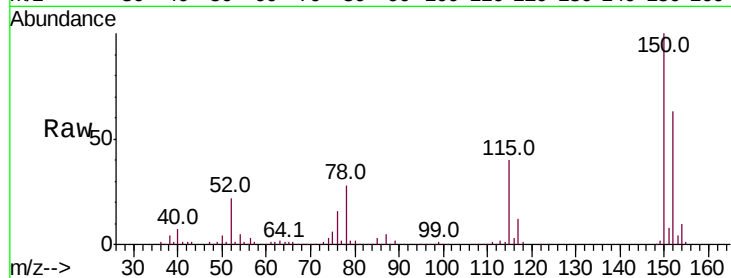
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 745  
Delta R.T. -0.01 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

Instrument :  
BNA\_F  
ClientSampleId :  
138-KV-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.8 | 124.6 | 186.8 |
| 115     | 63.7  | 50.1  | 75.1  |

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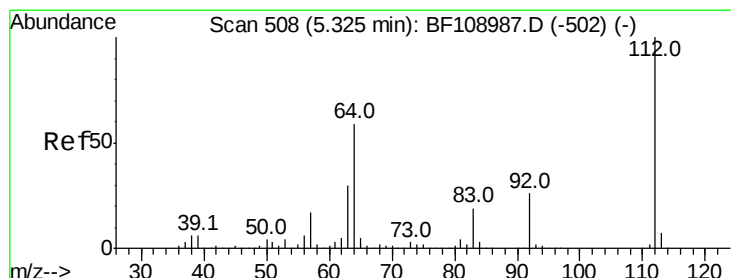
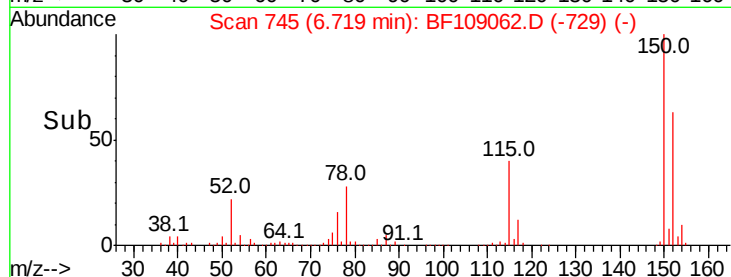
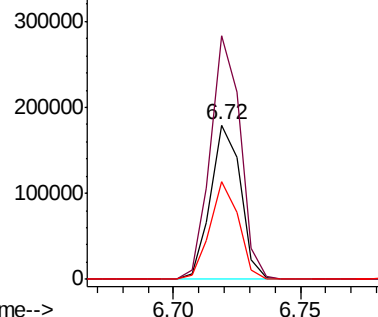


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

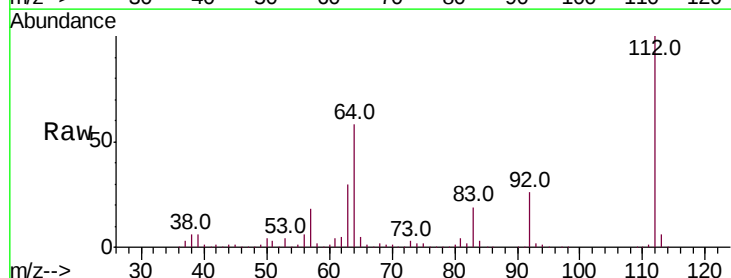
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 70.772 ng  
RT: 5.33 min Scan# 509  
Delta R.T. 0.01 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.0  | 47.9  | 71.9  |
| 63      | 30.4  | 23.7  | 35.5  |

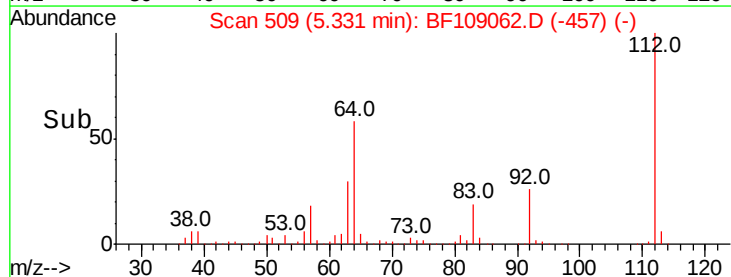
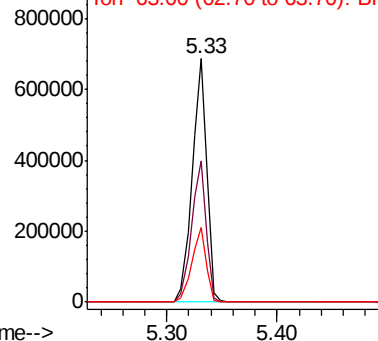


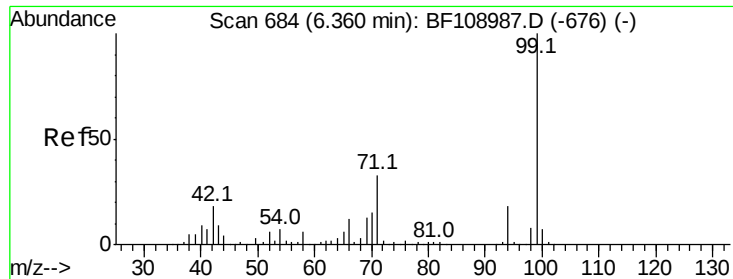
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 70.588 ng

RT: 6.35 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF109062.D

Acq: 17 Sep 2018 21:36

Instrument :

BNA\_F

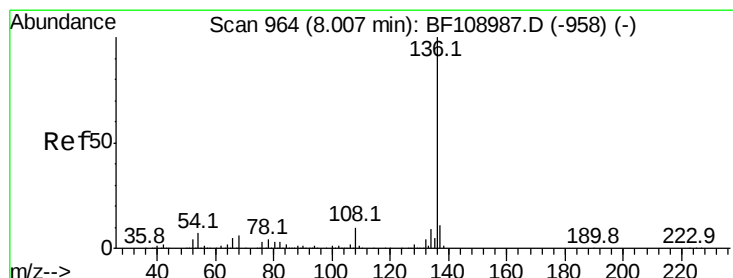
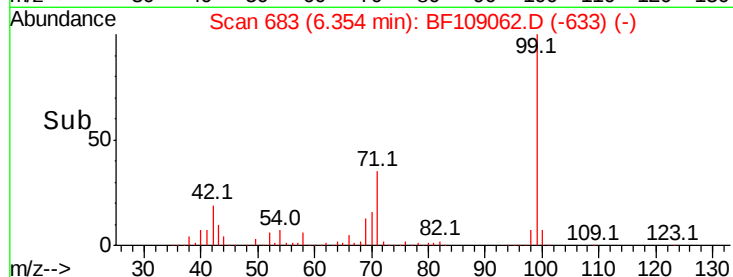
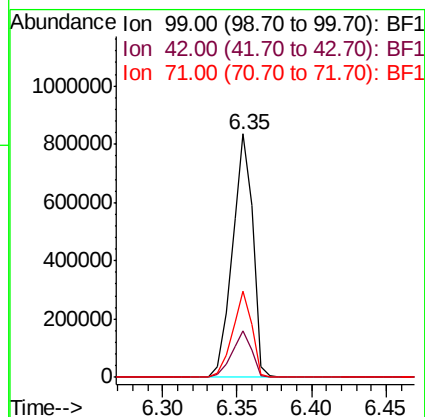
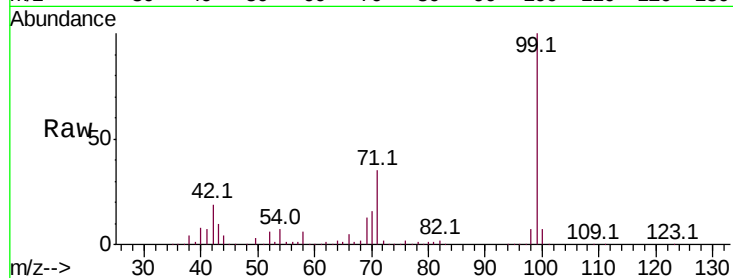
ClientSampled :

138-KV-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 808554 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.2  | 14.5  | 21.7   |
| 71        | 35.2  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

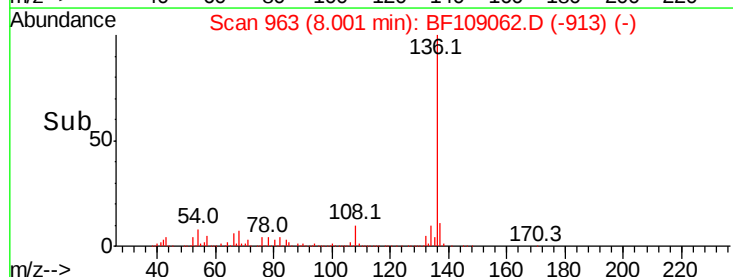
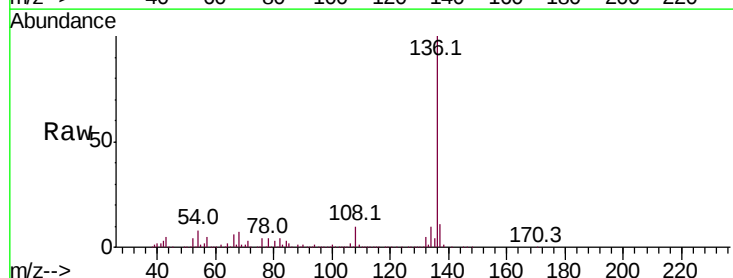
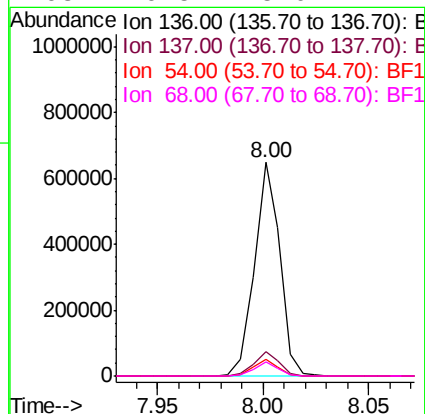
RT: 8.00 min Scan# 963

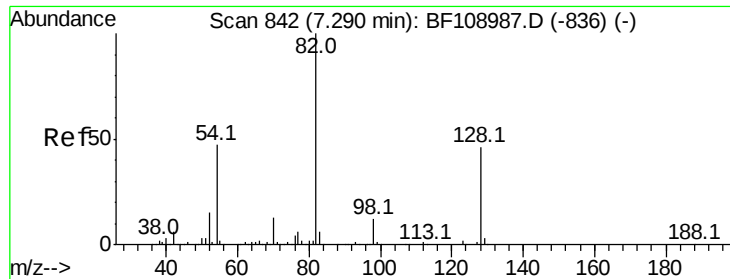
Delta R.T. -0.01 min

Lab File: BF109062.D

Acq: 17 Sep 2018 21:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 540231 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.2  | 8.9   | 13.3   |
| 54        | 7.9   | 6.6   | 9.8    |
| 68        | 6.5   | 5.0   | 7.4    |





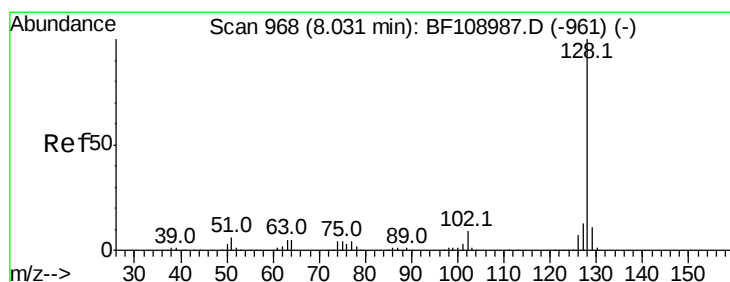
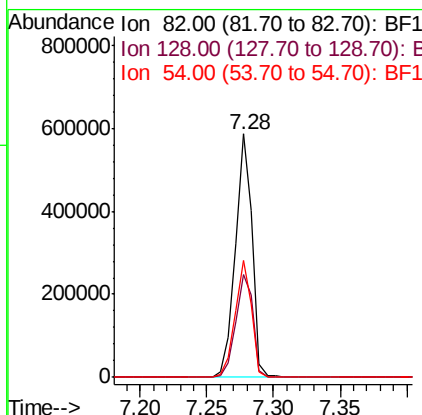
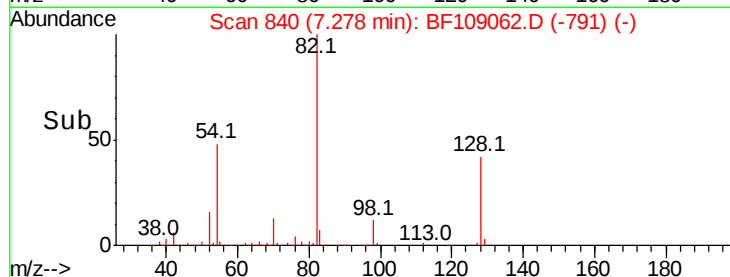
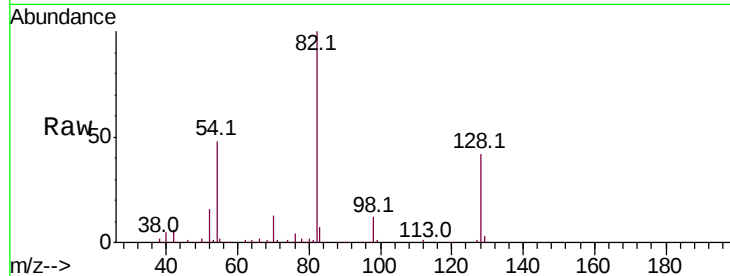
#23  
Nitrobenzene-d5  
Concen: 54.120 ng  
RT: 7.28 min Scan# 840  
Delta R.T. -0.01 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

Instrument :  
BNA\_F  
ClientSampleId :  
138-KV-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 521276 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 42.4  | 36.1  | 54.1   |
| 54        | 47.9  | 41.4  | 62.2   |

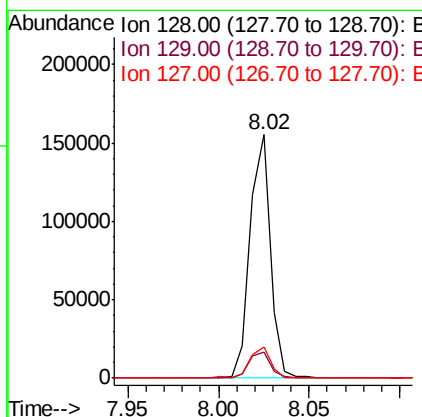
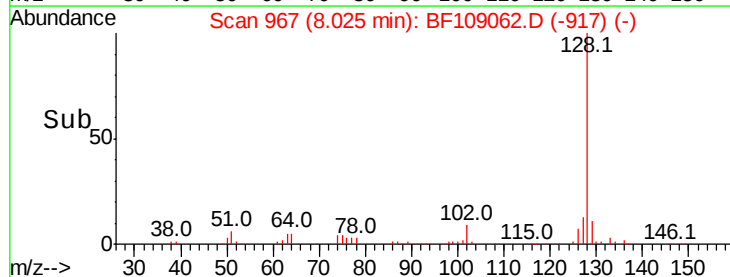
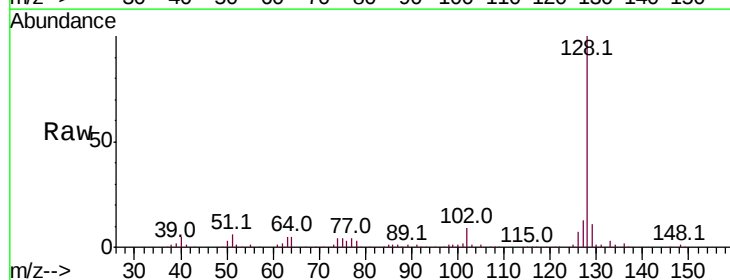
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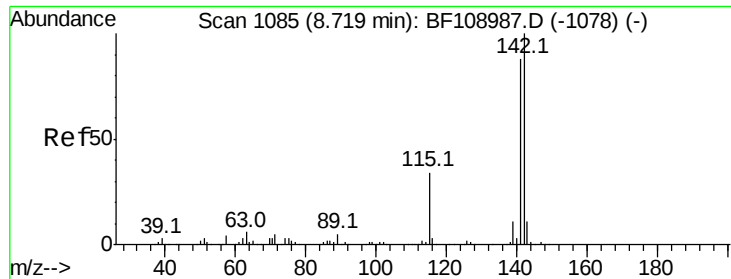
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#31  
Naphthalene  
Concen: 4.849 ng  
RT: 8.02 min Scan# 967  
Delta R.T. -0.01 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 121591 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 10.9  | 8.8   | 13.2   |
| 127       | 12.8  | 10.9  | 16.3   |





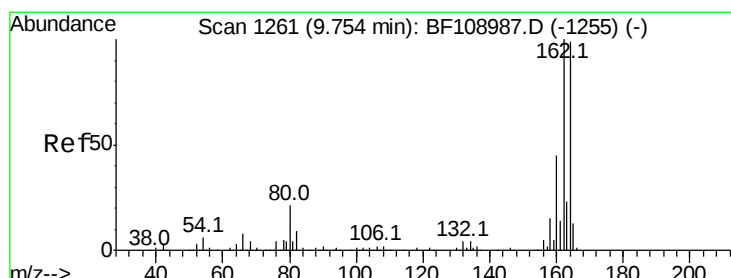
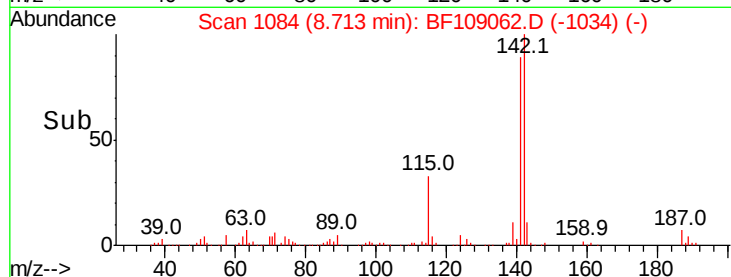
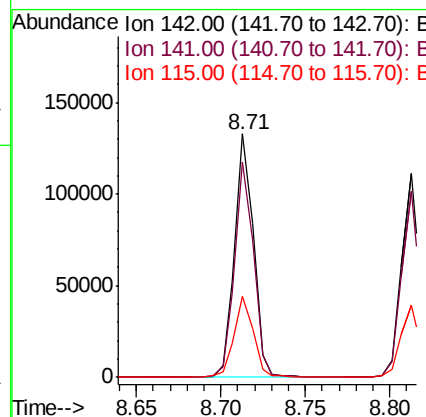
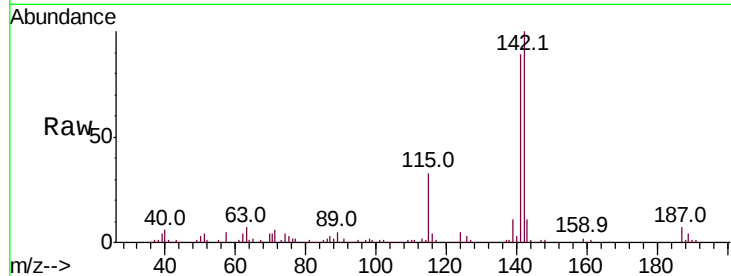
#37  
2-Methylnaphthalene  
Concen: 6.306 ng  
RT: 8.71 min Scan# 1084  
Delta R.T. -0.01 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

Instrument :  
BNA\_F  
ClientSampleId :  
138-KV-2

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 142     | 100   |      |       |       |
| 141     | 88.7  | 70.8 | 106.2 |       |
| 115     | 33.3  | 26.1 | 39.1  |       |

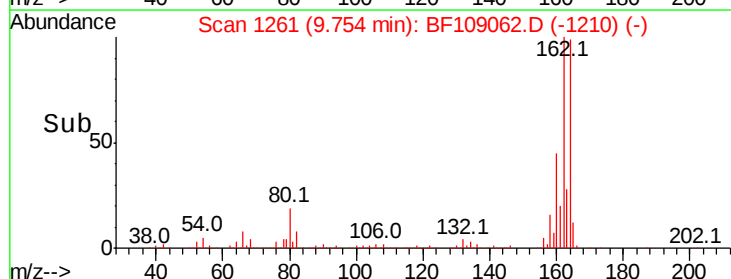
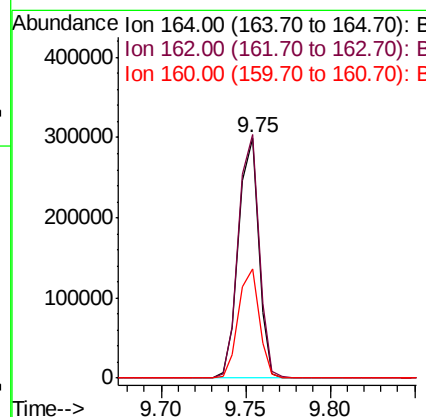
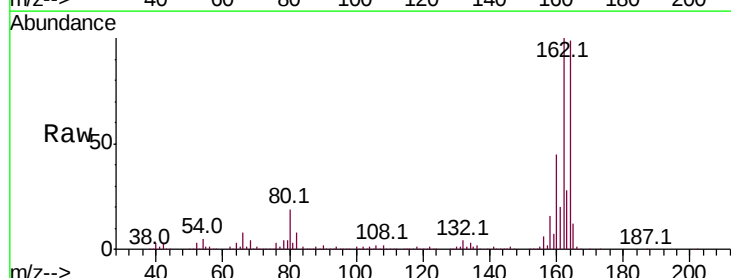
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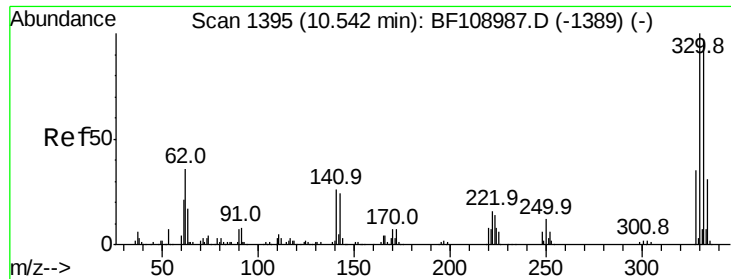
Sohil  
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.75 min Scan# 1261  
Delta R.T. -0.00 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 101.3 | 86.1 | 129.1 |       |
| 160     | 45.7  | 38.3 | 57.5  |       |





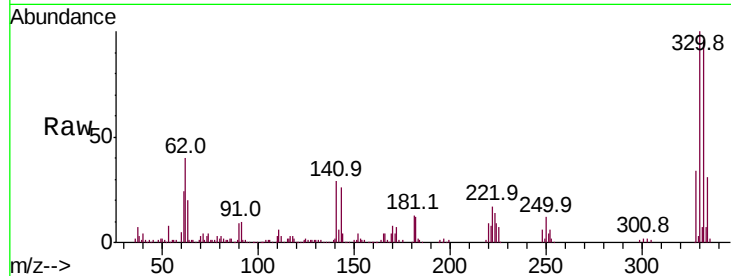
#41  
 2,4,6-Tribromophenol  
 Concen: 62.402 ng  
 RT: 10.54 min Scan# 1394  
 Delta R.T. -0.01 min  
 Lab File: BF109062.D  
 Acq: 17 Sep 2018 21:36

Instrument :  
 BNA\_F  
 ClientSampled :  
 138-KV-2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 168844 |       |       |
| 332     | 96.2  | 77.0   | 115.6 |       |
| 141     | 32.8  | 29.9   | 44.9  |       |

Manual Integrations  
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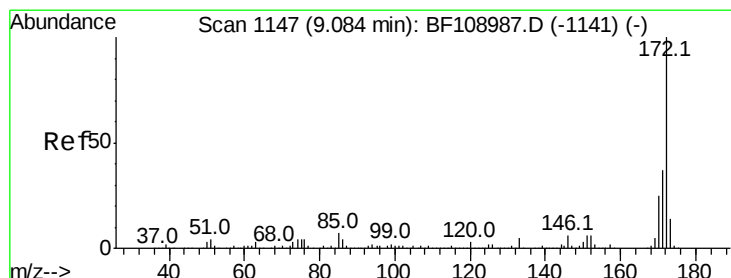
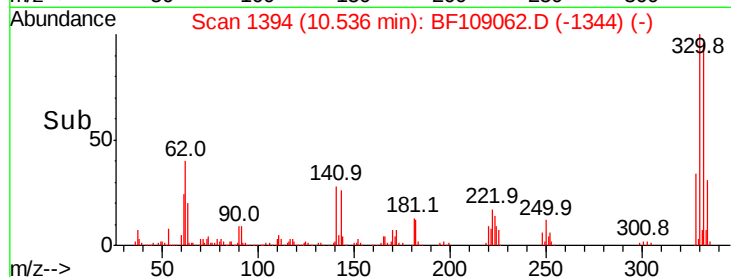
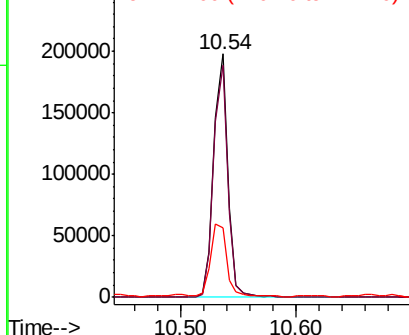


Abundance

Ion 329.80 (329.50 to 330.50): E

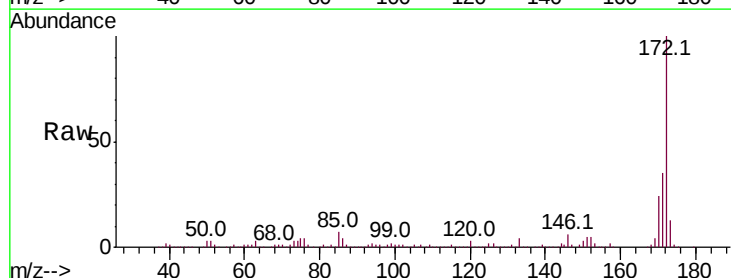
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 49.989 ng  
 RT: 9.08 min Scan# 1146  
 Delta R.T. -0.01 min  
 Lab File: BF109062.D  
 Acq: 17 Sep 2018 21:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 795492 |       |       |
| 171     | 35.5  | 29.7   | 44.5  |       |
| 170     | 23.7  | 19.6   | 29.4  |       |

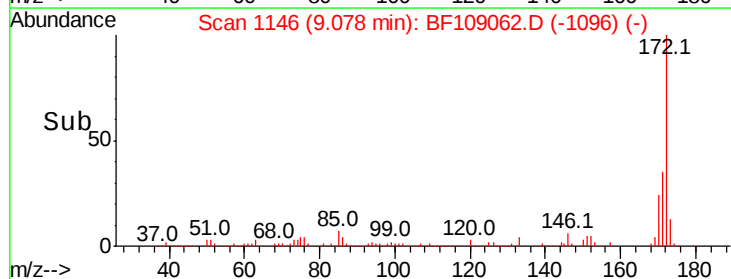
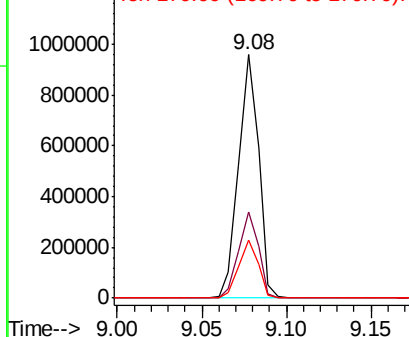


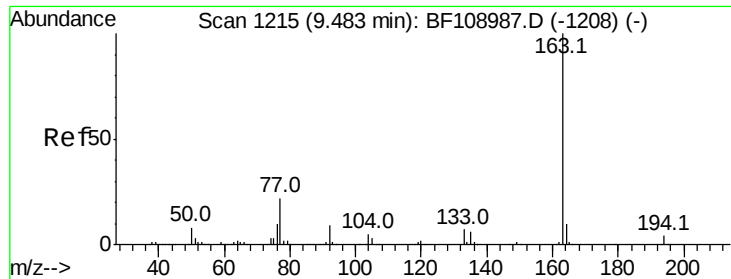
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





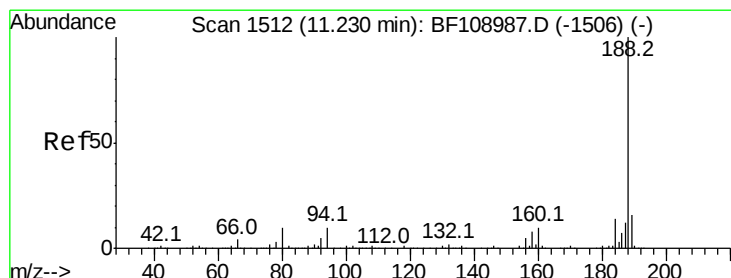
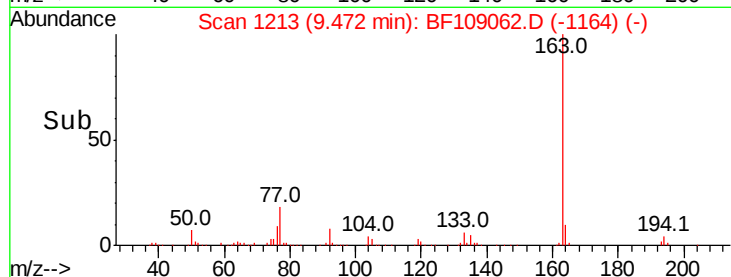
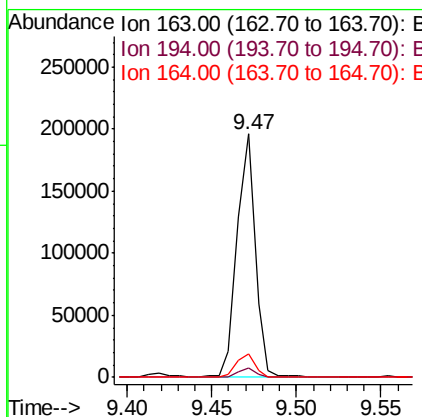
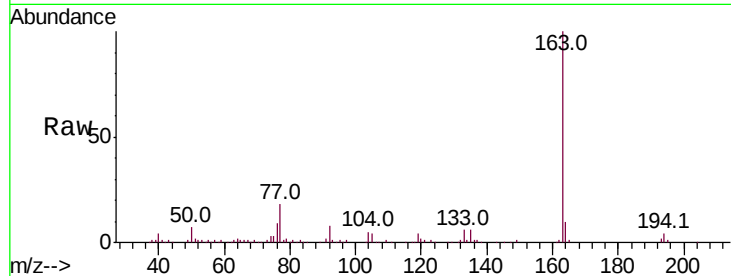
#49  
Dimethylphthalate  
Concen: 8.220 ng  
RT: 9.47 min Scan# 1213  
Delta R.T. -0.01 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

Instrument :  
BNA\_F  
ClientSampled :  
138-KV-2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 146470 |       |       |
| 194     | 3.8   | 2.7    | 4.1   |       |
| 164     | 9.7   | 8.2    | 12.2  |       |

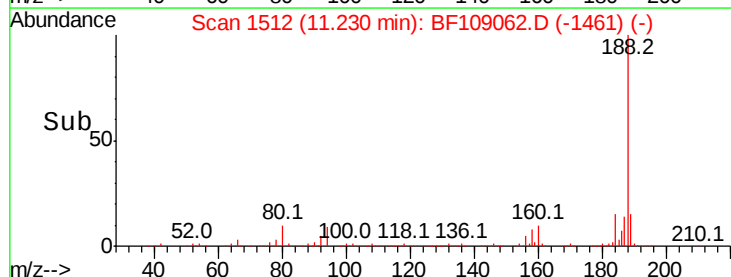
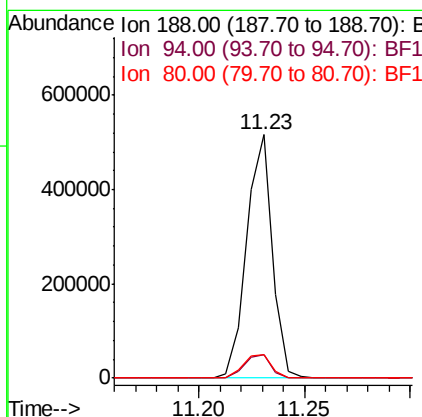
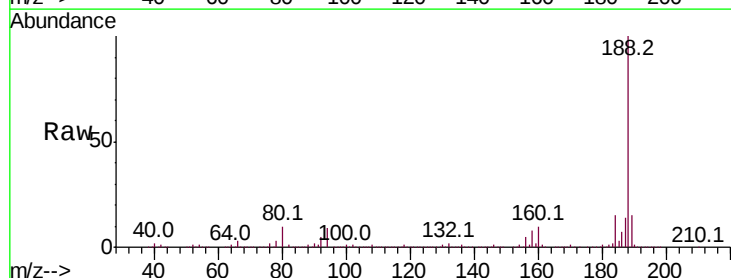
Manual Integrations  
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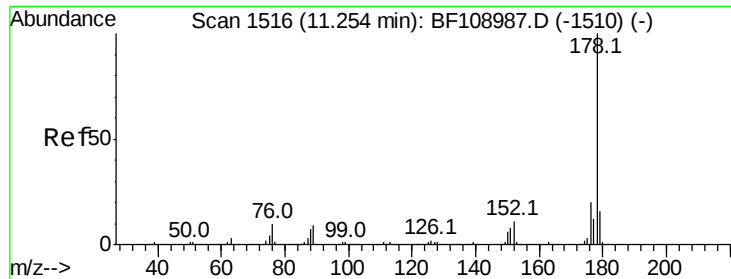
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1512  
Delta R.T. -0.00 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 434317 |       |       |
| 94      | 9.4   | 8.5    | 12.7  |       |
| 80      | 9.8   | 9.2    | 13.8  |       |





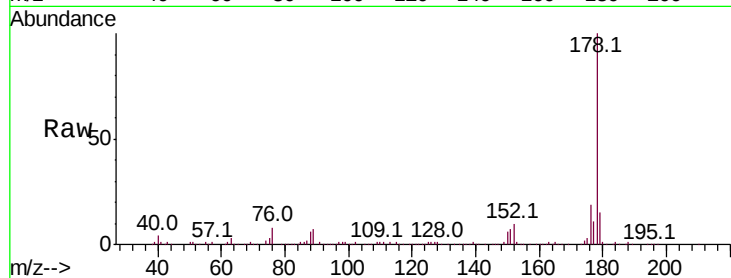
#70  
Phenanthrene  
Concen: 7.781 ng  
RT: 11.25 min Scan# 1516  
Delta R.T. -0.00 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

Instrument :  
BNA\_F  
ClientSampleId :  
138-KV-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 15.8  | 23.8  |
| 179     | 15.0  | 13.0  | 19.6  |

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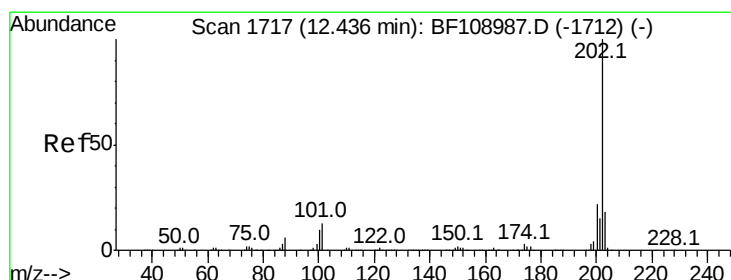
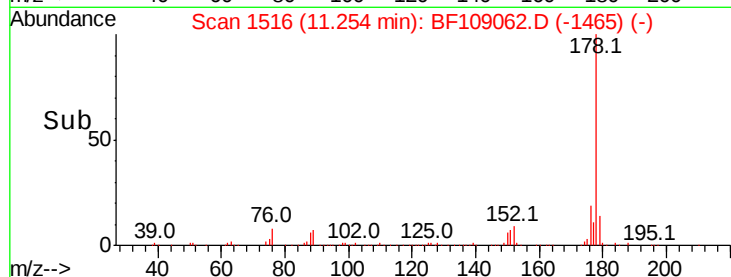
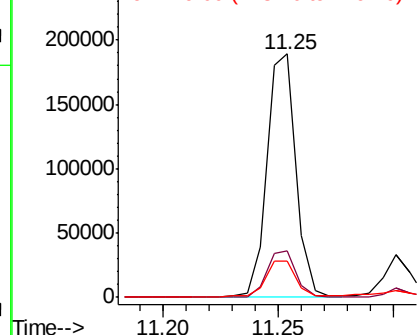


Abundance

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



#74  
Fluoranthene  
Concen: 9.524 ng  
RT: 12.44 min Scan# 1717  
Delta R.T. -0.00 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

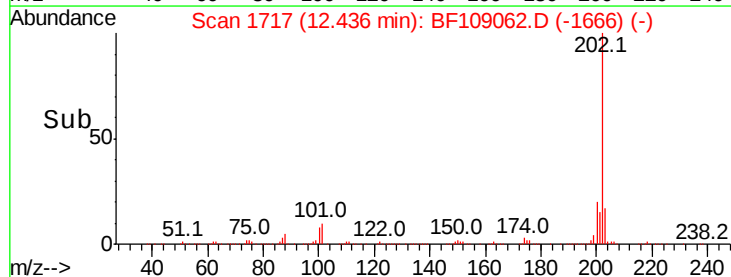
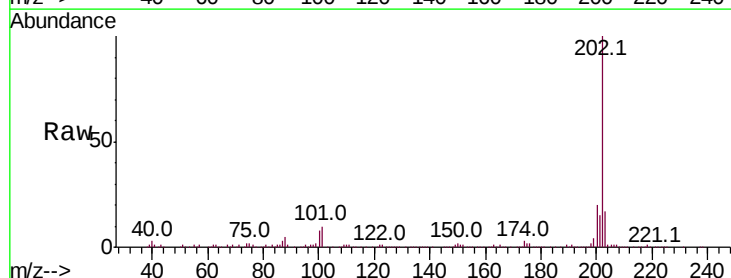
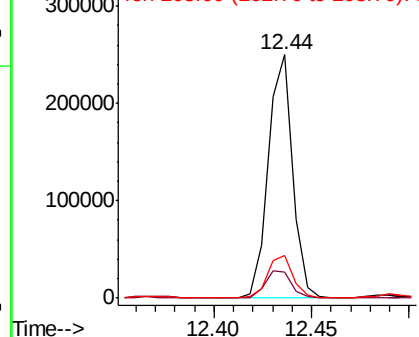
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.4  | 0.0   | 34.1  |
| 203     | 17.3  | 0.0   | 38.1  |

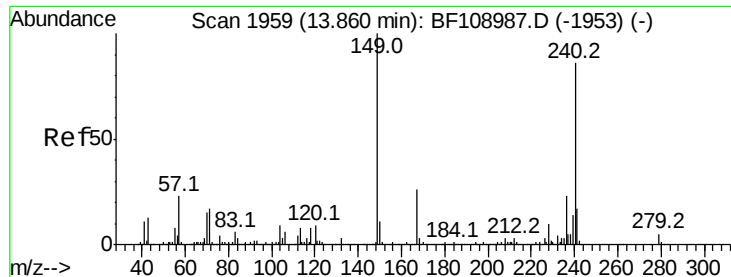
Abundance

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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.85 min Scan# 1958

Delta R.T. -0.01 min

Lab File: BF109062.D

Acq: 17 Sep 2018 21:36

Instrument :

BNA\_F

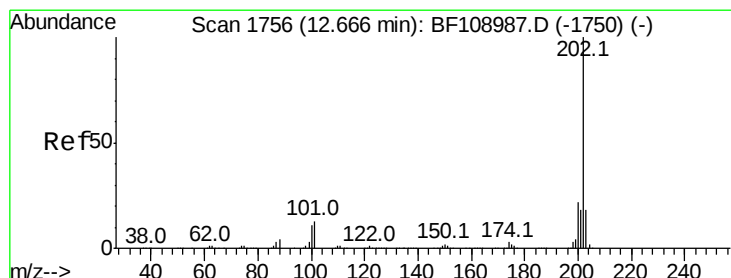
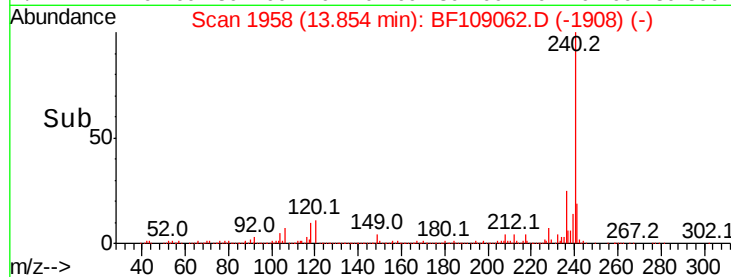
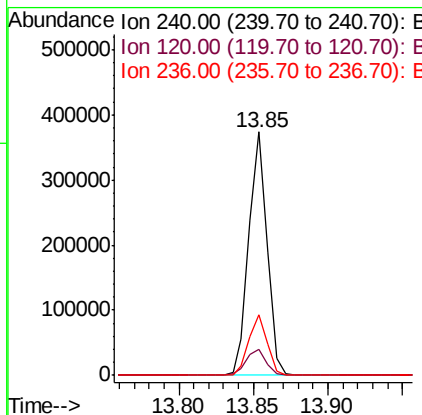
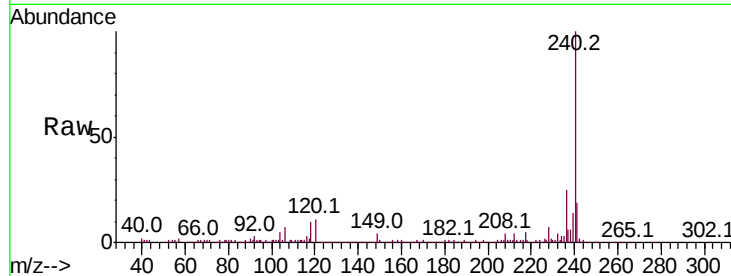
ClientSampled :

138-KV-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 317141 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.7  | 9.5   | 14.3   |
| 236       | 24.7  | 20.7  | 31.1   |

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#77

Pyrene

Concen: 8.205 ng

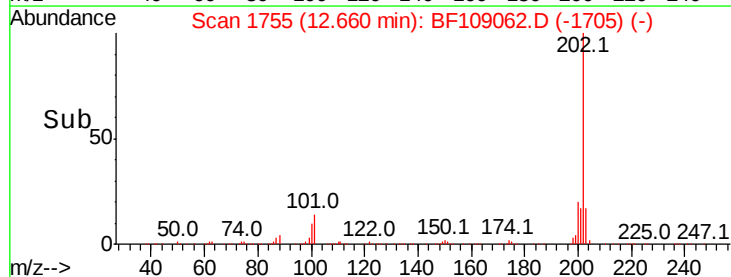
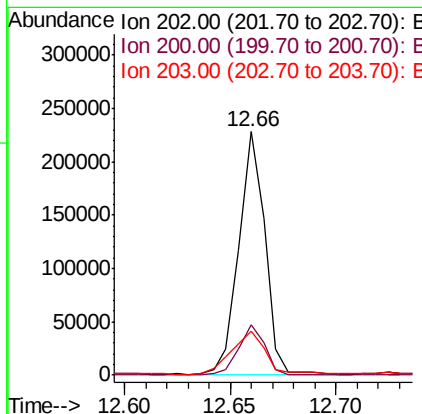
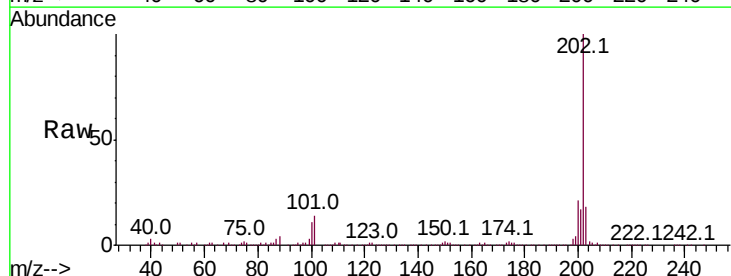
RT: 12.66 min Scan# 1755

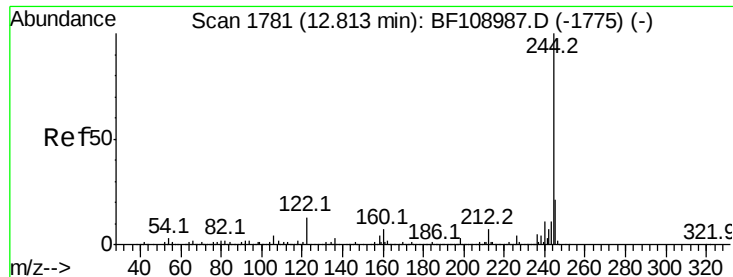
Delta R.T. -0.01 min

Lab File: BF109062.D

Acq: 17 Sep 2018 21:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 193282 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.5  | 17.4  | 26.2   |
| 203       | 17.9  | 14.3  | 21.5   |





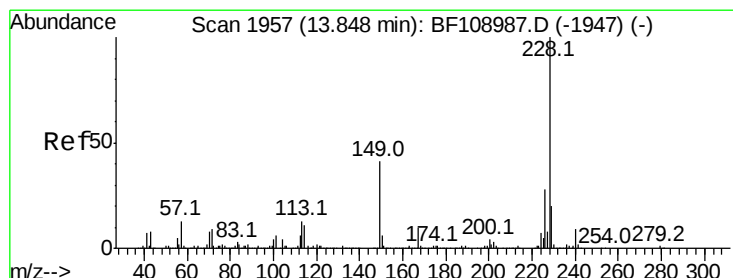
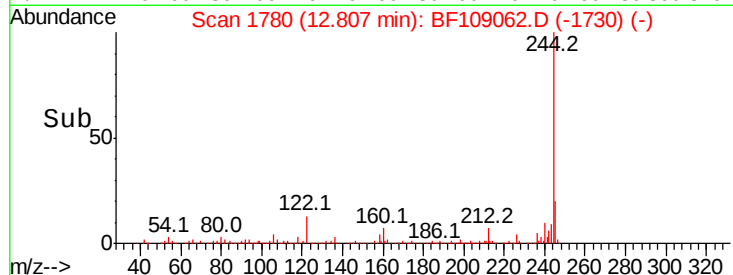
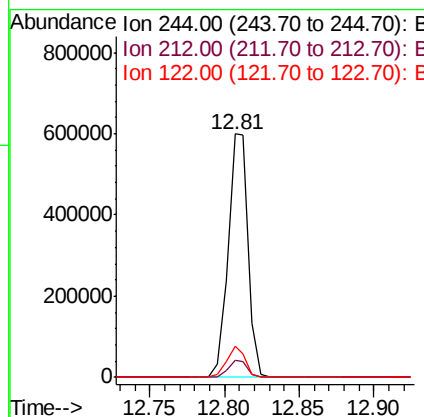
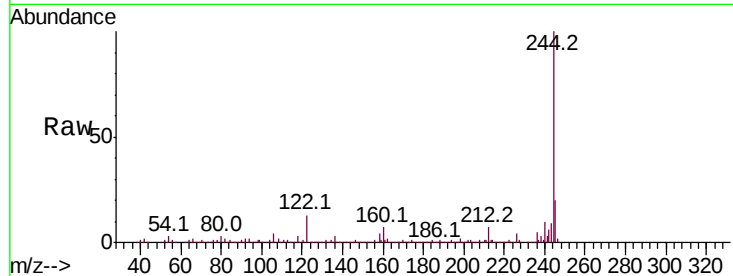
#78  
 Terphenyl-d14  
 Concen: 42.684 ng  
 RT: 12.81 min Scan# 1780  
 Delta R.T. -0.01 min  
 Lab File: BF109062.D  
 Acq: 17 Sep 2018 21:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 138-KV-2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 571107 |       |       |
| 212     | 6.8   |        | 5.4   | 8.0   |
| 122     | 13.0  |        | 11.0  | 16.4  |

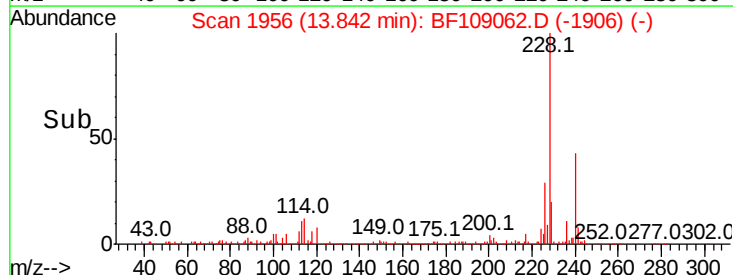
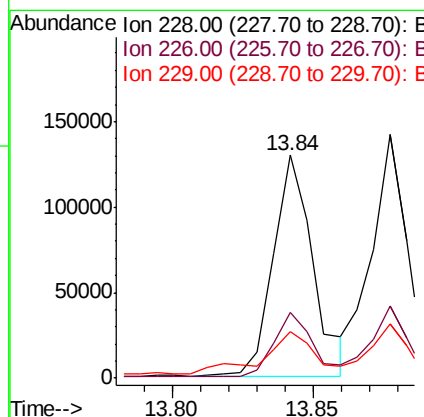
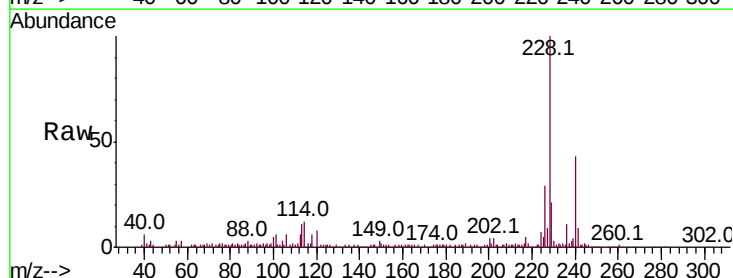
Manual Integrations  
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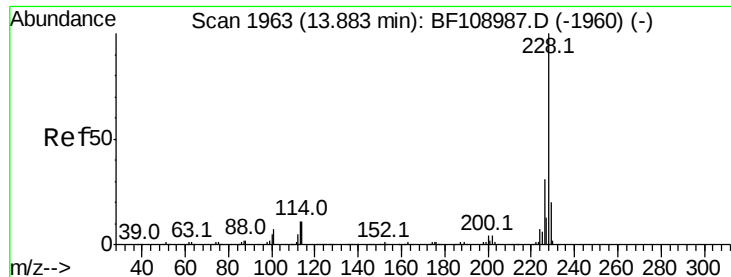
Sohil  
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#80  
 Benzo(a)anthracene  
 Concen: 6.583 ng  
 RT: 13.84 min Scan# 1956  
 Delta R.T. -0.01 min  
 Lab File: BF109062.D  
 Acq: 17 Sep 2018 21:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 126393 |       |       |
| 226     | 29.4  |        | 22.6  | 33.8  |
| 229     | 20.6  |        | 15.8  | 23.6  |





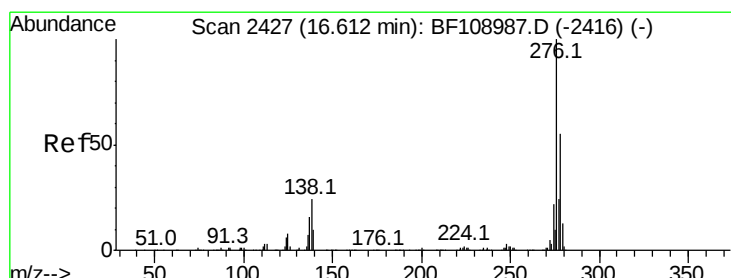
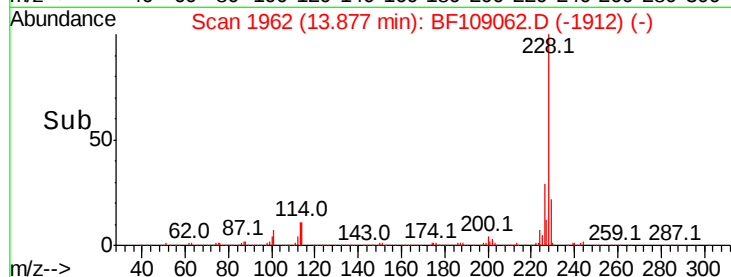
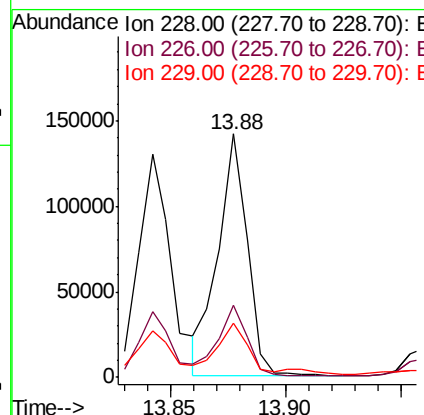
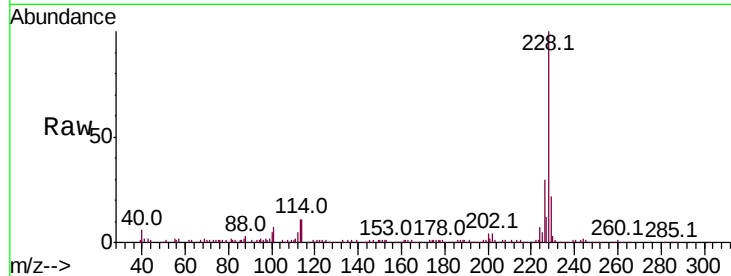
#82  
Chrysene  
Concen: 6.487 ng  
RT: 13.88 min Scan# 1962  
Delta R.T. -0.01 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

Instrument :  
BNA\_F  
ClientSampled :  
138-KV-2

|             |       |        |
|-------------|-------|--------|
| Tot Ion:228 | Resp: | 124624 |
| Ion Ratio   | Lower | Upper  |
| 228 100     |       |        |
| 226 29.7    | 25.0  | 37.6   |
| 229 22.5    | 16.2  | 24.4   |

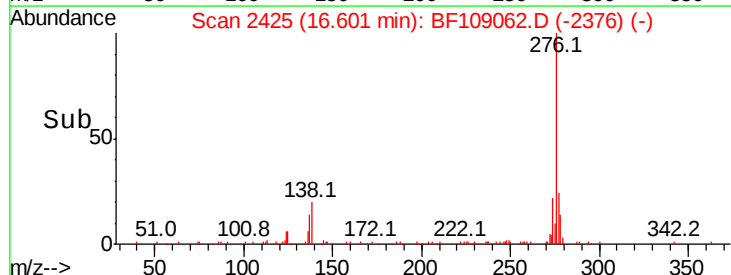
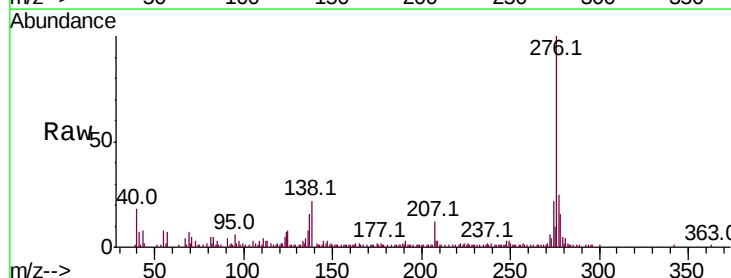
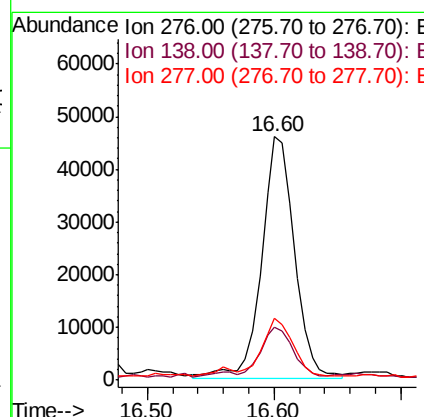
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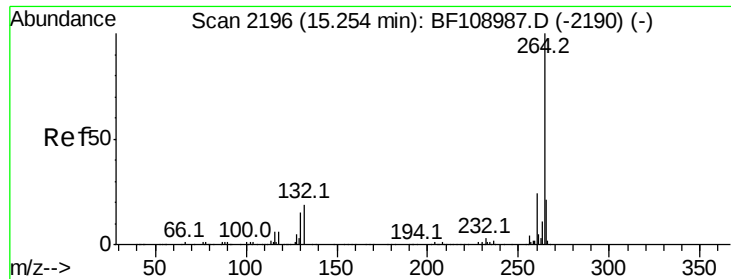
Sohil  
9/18/2018 6:00:22 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 5.371 ng  
RT: 16.60 min Scan# 2425  
Delta R.T. -0.01 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:276 | Resp: | 82491 |
| Ion Ratio   | Lower | Upper |
| 276 100     |       |       |
| 138 19.1    | 25.0  | 37.6# |
| 277 24.2    | 20.1  | 30.1  |





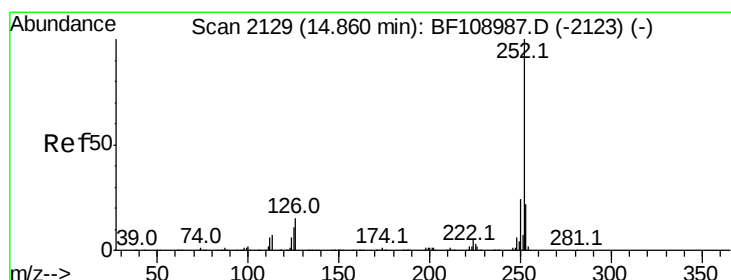
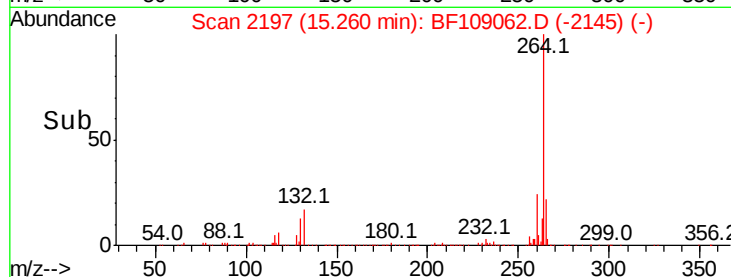
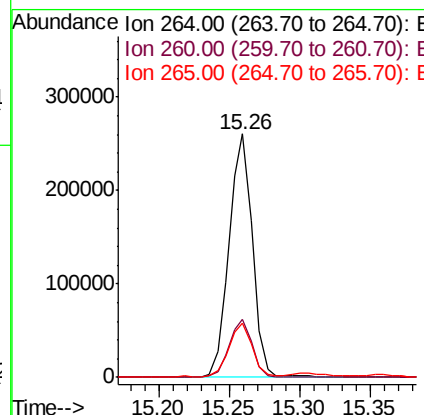
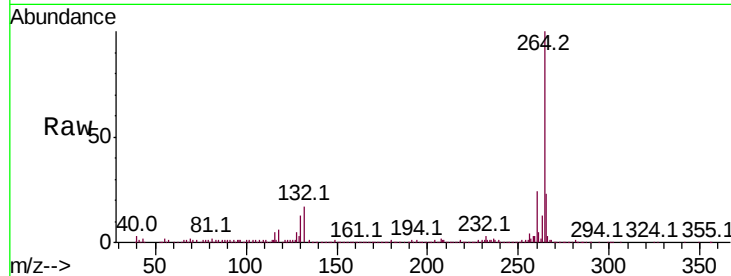
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.26 min Scan# 2197  
Delta R.T. 0.01 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

Instrument :  
BNA\_F  
ClientSampleId :  
138-KV-2

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 264     | 100   |      |       |       |
| 260     | 24.1  | 19.2 | 28.8  |       |
| 265     | 22.5  | 17.5 | 26.3  |       |

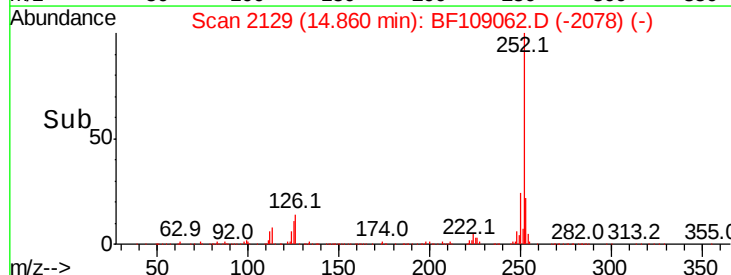
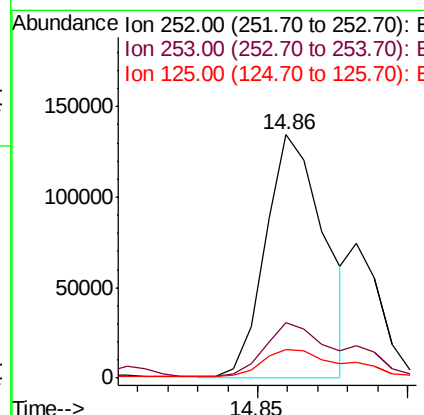
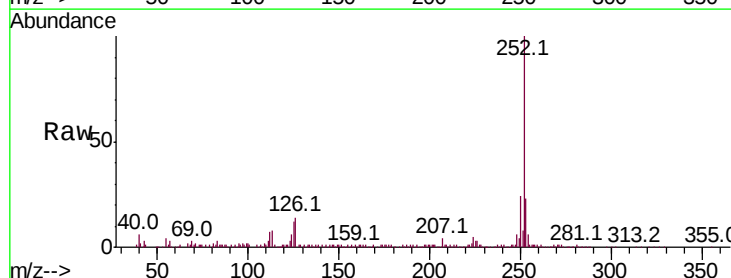
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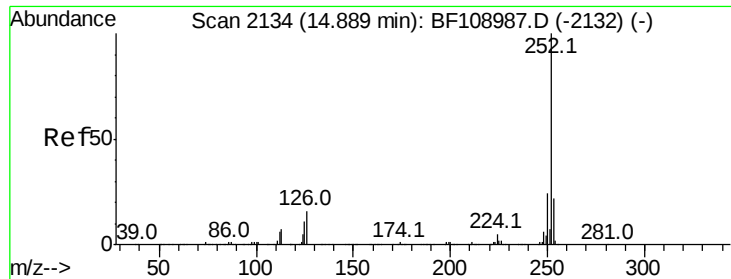
Sohil  
9/18/2018 6:00:22 PM



#87  
Benzo(b)fluoranthene  
Concen: 11.210 ng m  
RT: 14.86 min Scan# 2129  
Delta R.T. -0.00 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   |      |       |       |
| 253     | 22.8  | 17.0 | 25.6  |       |
| 125     | 11.6  | 9.0  | 13.6  |       |





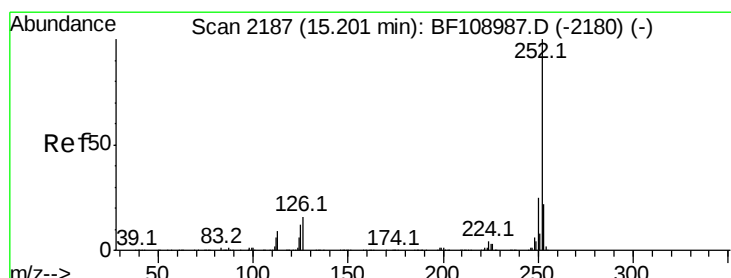
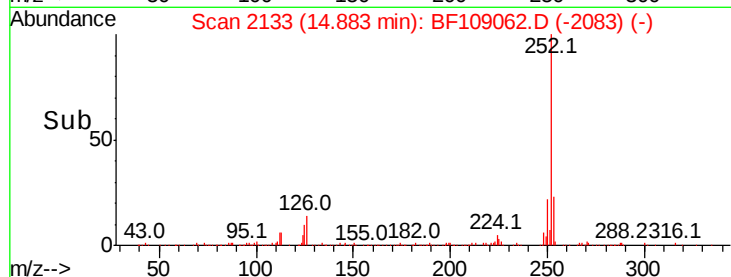
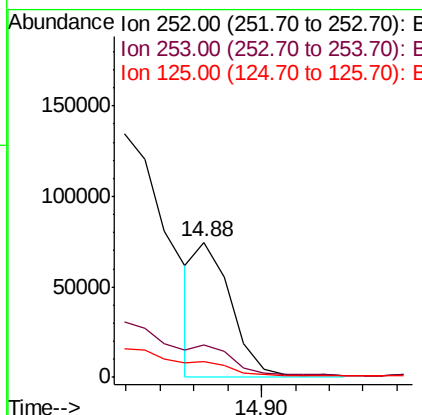
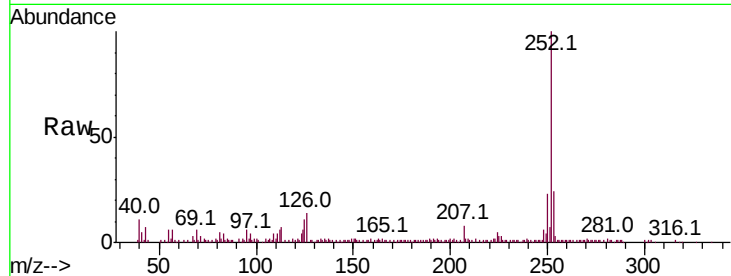
#88  
Benzo(k)fluoranthene  
Concen: 3.638 ng m  
RT: 14.88 min Scan# 2133  
Delta R.T. -0.01 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

Instrument :  
BNA\_F  
ClientSampleId :  
138-KV-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 17.9  | 26.9  |
| 125     | 11.3  | 10.2  | 15.2  |

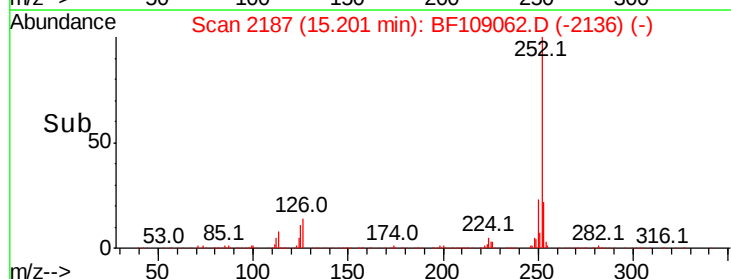
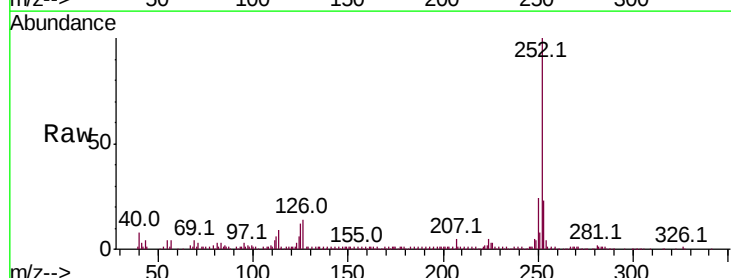
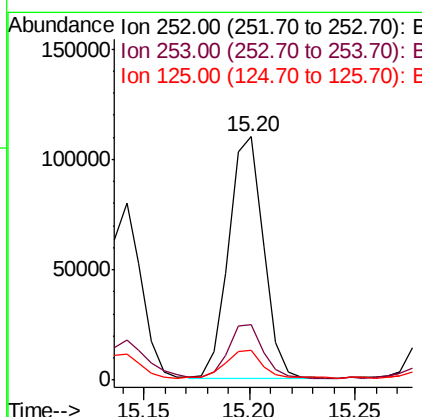
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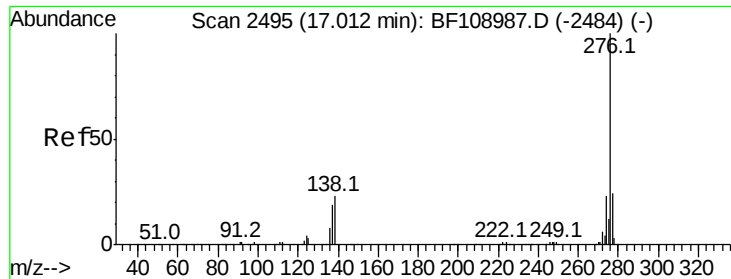
Sohil  
9/18/2018 6:00:22 PM



#89  
Benzo(a)pyrene  
Concen: 8.605 ng  
RT: 15.20 min Scan# 2187  
Delta R.T. -0.00 min  
Lab File: BF109062.D  
Acq: 17 Sep 2018 21:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.1  | 25.7  |
| 125     | 12.1  | 9.8   | 14.6  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 6.019 ng  
 RT: 17.01 min Scan# 2494  
 Delta R.T. -0.01 min  
 Lab File: BF109062.D  
 Acq: 17 Sep 2018 21:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 138-KV-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.9  | 17.9  | 26.9  |
| 138     | 24.5  | 21.8  | 32.8  |

Manual Integrations  
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 9/18/2018 6:00:22 PM

