

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\  
 Data File : BF105024.D  
 Acq On : 2 May 2018 12:17  
 Operator : JU/SJ  
 Sample : J2157-21  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-043018-E

Manual Integrations  
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Sohil  
 5/3/2018 5:00:44 PM

Quant Time: May 03 10:04:41 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 02 17:25:18 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|--------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.79  | 152  | 98687    | 20.00  | ng    | 0.00       |
| 21) Naphthalene-d8          | 8.07  | 136  | 408295   | 20.00  | ng    | 0.00       |
| 38) Acenaphthene-d10        | 9.83  | 164  | 183131   | 20.00  | ng    | 0.00       |
| 63) Phenanthrene-d10        | 11.32 | 188  | 310827   | 20.00  | ng    | 0.00       |
| 75) Chrysene-d12            | 14.02 | 240  | 218478   | 20.00  | ng    | -0.01      |
| 86) Perylene-d12            | 15.59 | 264  | 206997   | 20.00  | ng    | 0.00       |
| System Monitoring Compounds |       |      |          |        |       |            |
| 5) 2-Fluorophenol           | 5.40  | 112  | 626229   | 97.03  | ng    | 0.00       |
| 7) Phenol-d6                | 6.43  | 99   | 759779   | 95.81  | ng    | 0.00       |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 457673   | 73.20  | ng    | -0.01      |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 196800   | 103.60 | ng    | 0.00       |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 859369   | 74.13  | ng    | 0.00       |
| 78) Terphenyl-d14           | 12.92 | 244  | 680816   | 71.04  | ng    | 0.00       |
| Target Compounds            |       |      |          |        |       |            |
| 49) Dimethylphthalate       | 9.55  | 163  | 97192    | 6.730  | ng    | Qvalue 100 |
| 70) Phenanthrene            | 11.35 | 178  | 74378    | 4.297  | ng    | 97         |
| 74) Fluoranthene            | 12.54 | 202  | 107707   | 5.955  | ng    | 96         |
| 77) Pyrene                  | 12.77 | 202  | 106341   | 6.567  | ng    | 98         |
| 80) Benzo(a)anthracene      | 14.01 | 228  | 49652    | 3.804  | ng    | 96         |
| 82) Chrysene                | 14.05 | 228  | 53264    | 3.973  | ng    | 95         |
| 85) Indeno(1,2,3-cd)pyrene  | 17.08 | 276  | 26443    | 2.322  | ng    | # 90       |
| 87) Benzo(b)fluoranthene    | 15.16 | 252  | 68311m   | 5.225  | ng    |            |
| 89) Benzo(a)pyrene          | 15.53 | 252  | 46666m   | 3.989  | ng    |            |
| 91) Benzo(g,h,i)perylene    | 17.53 | 276  | 26628    | 2.861  | ng    | 94         |

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

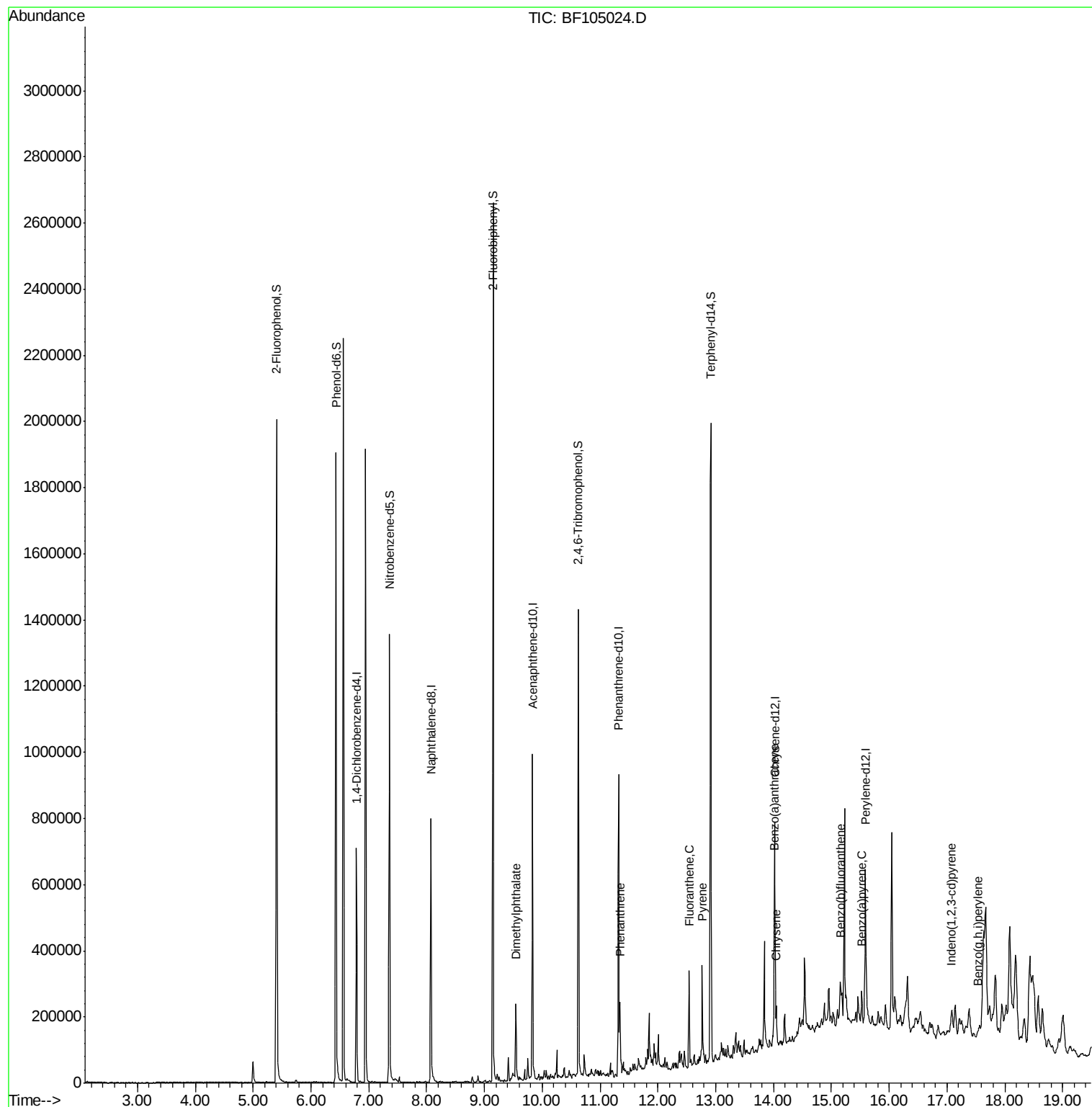
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\  
Data File : BF105024.D  
Acq On : 2 May 2018 12:17  
Operator : JU/SJ  
Sample : J2157-21  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
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Quant Time: May 03 10:04:41 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 02 17:25:18 2018  
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#1

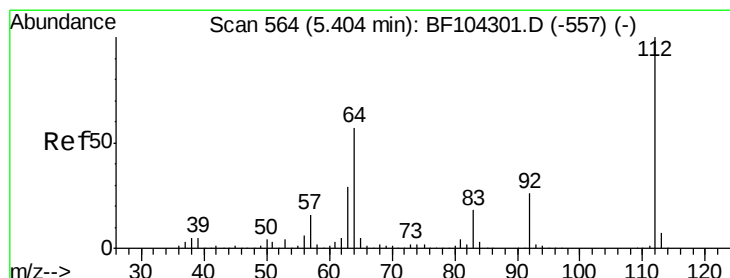
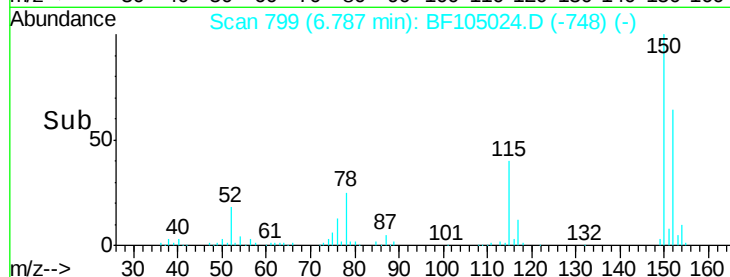
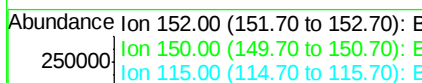
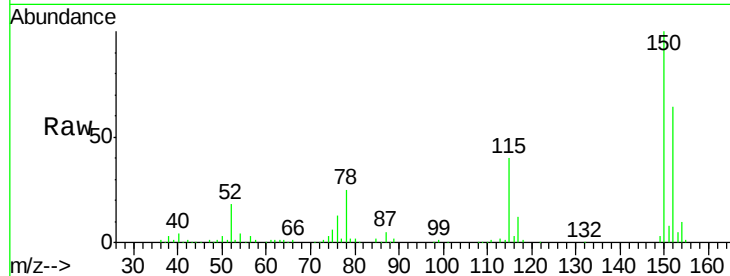
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 799  
Delta R.T. -0.00 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-043018-E

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.0 | 124.6 | 186.8 |
| 115     | 62.8  | 50.1  | 75.1  |

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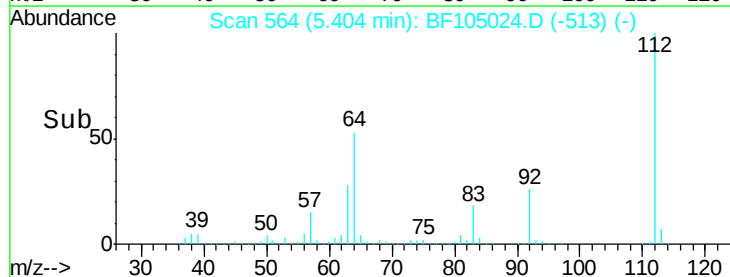
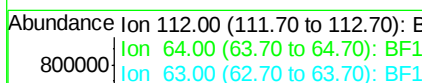
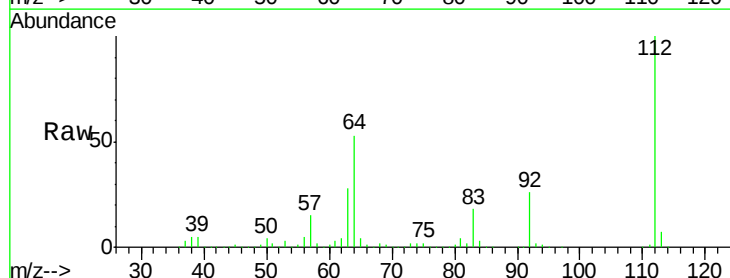
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#5

2-Fluorophenol  
Concen: 97.028 ng  
RT: 5.40 min Scan# 564  
Delta R.T. -0.00 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.4  | 47.9  | 71.9  |
| 63      | 27.7  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 95.811 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF105024.D

Acq: 2 May 2018 12:17

Instrument :

BNA\_F

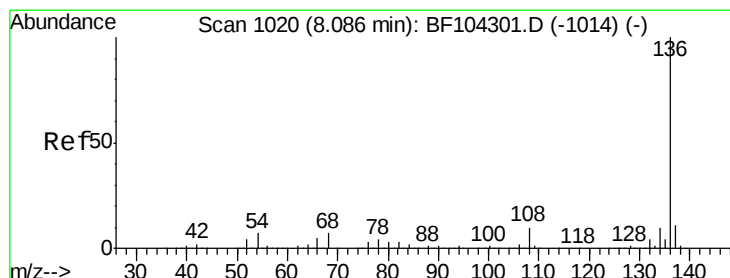
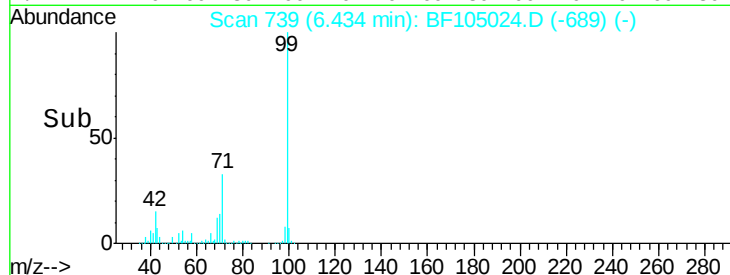
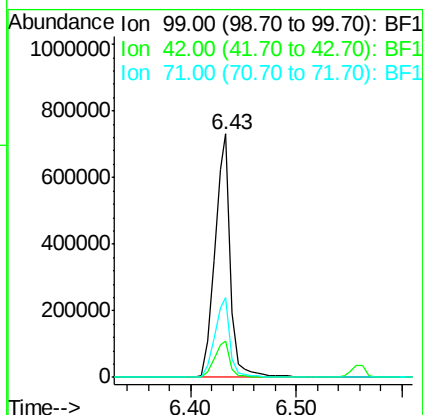
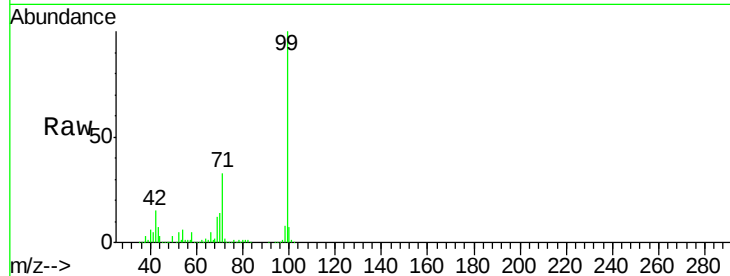
ClientSampleId :

CL-02-043018-E

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 759779 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 14.8  | 14.5  | 21.7   |
| 71       | 32.8  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

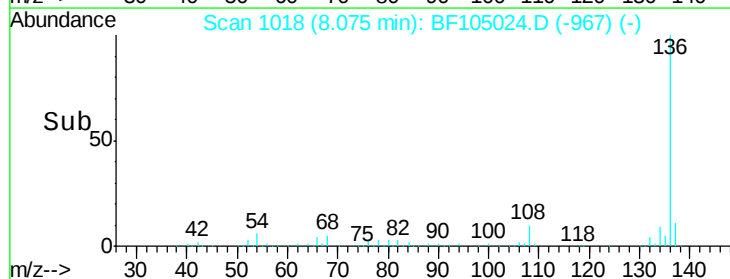
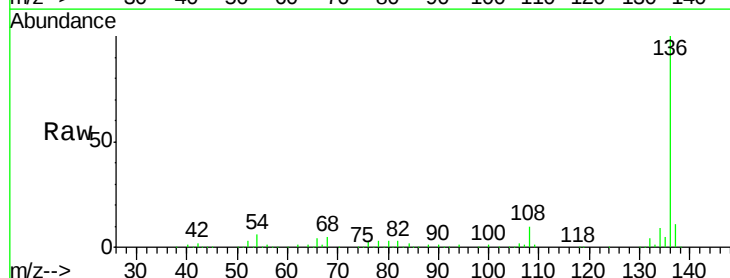
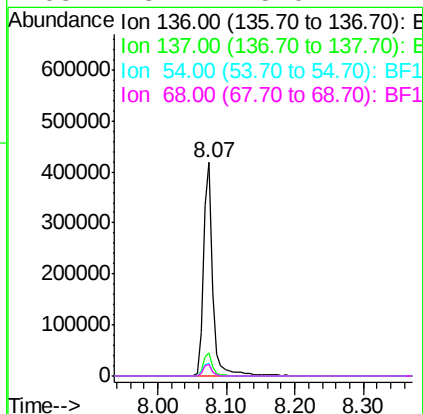
RT: 8.07 min Scan# 1018

Delta R.T. -0.00 min

Lab File: BF105024.D

Acq: 2 May 2018 12:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 408295 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 8.9   | 13.3   |
| 54       | 5.9   | 6.6   | 9.8    |
| 68       | 5.2   | 5.0   | 7.4    |





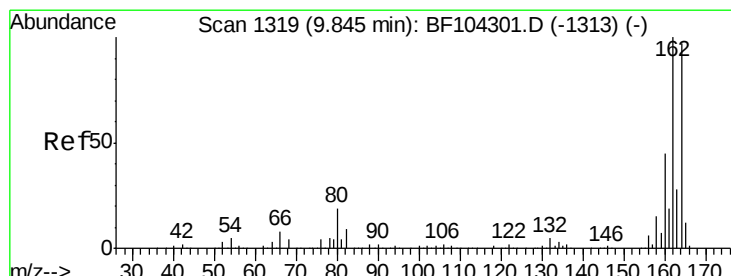
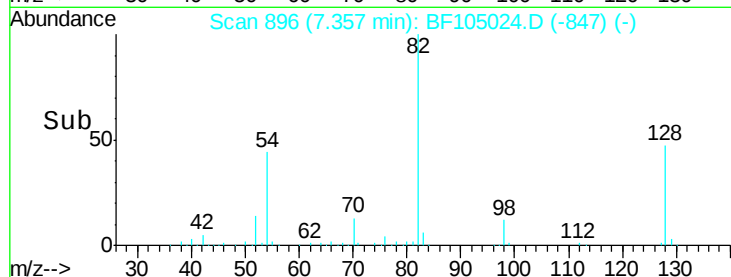
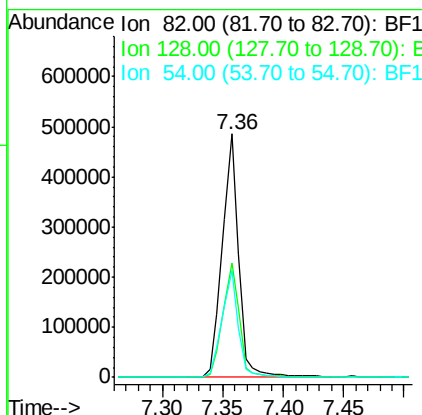
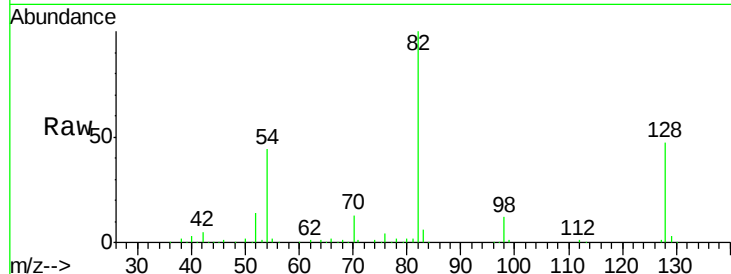
#23  
Nitrobenzene-d5  
Concen: 73.195 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.01 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-043018-E

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 47.1  | 36.1  | 54.1  |
| 54      | 43.8  | 41.4  | 62.2  |

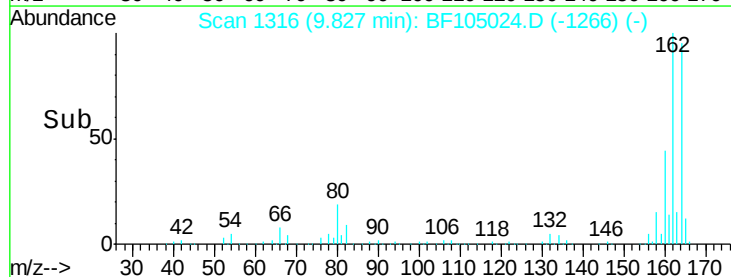
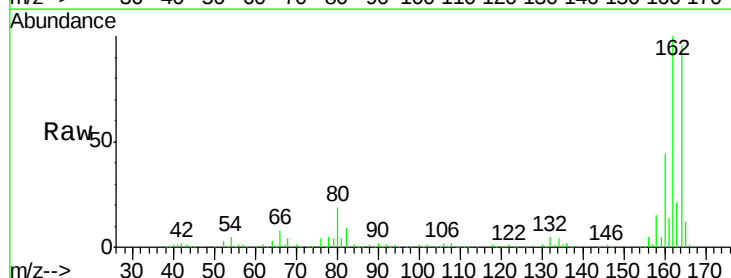
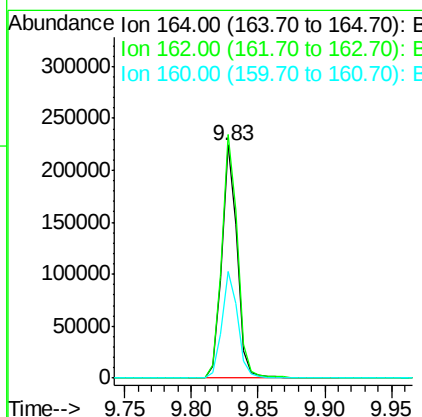
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1316  
Delta R.T. -0.01 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.4 | 86.1  | 129.1 |
| 160     | 45.6  | 38.3  | 57.5  |





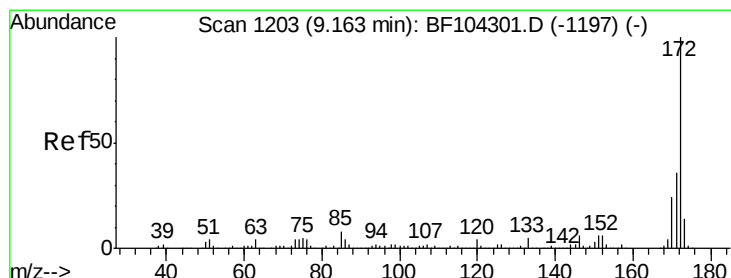
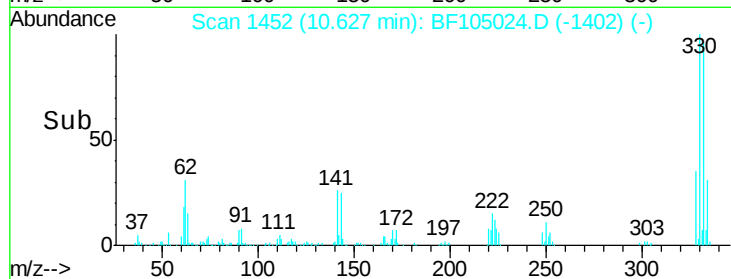
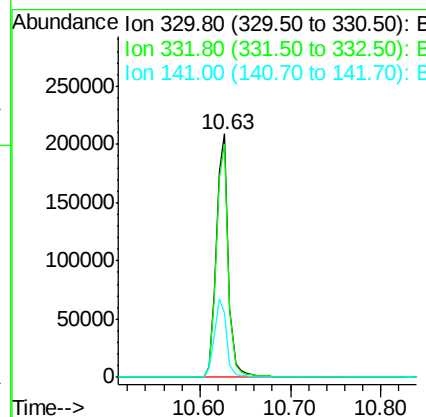
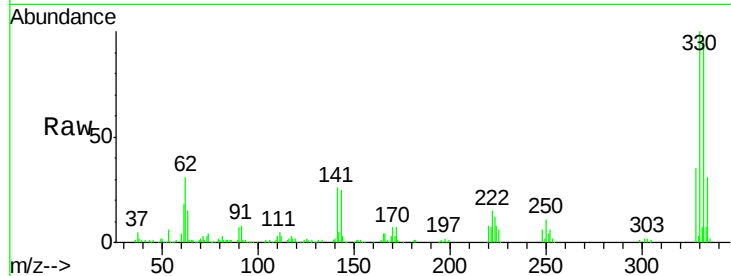
#41  
 2,4,6-Tribromophenol  
 Concen: 103.597 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. -0.01 min  
 Lab File: BF105024.D  
 Acq: 2 May 2018 12:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-043018-E

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 196800 |       |       |
| 332     | 95.9  | 77.0   | 115.6 |       |
| 141     | 33.1  | 29.9   | 44.9  |       |

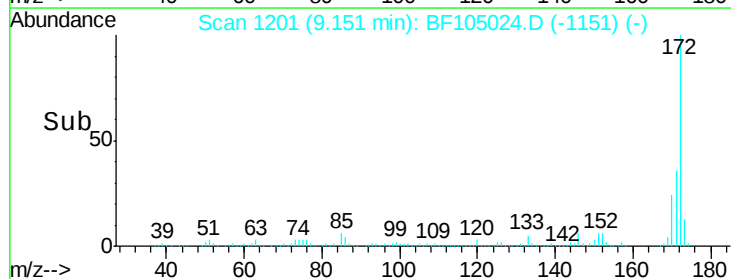
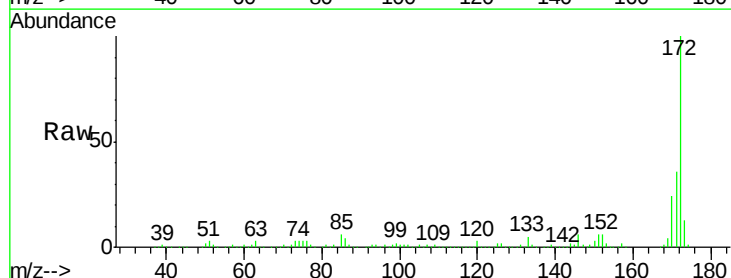
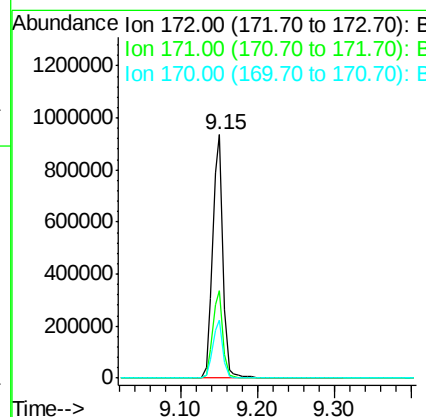
Manual Integrations  
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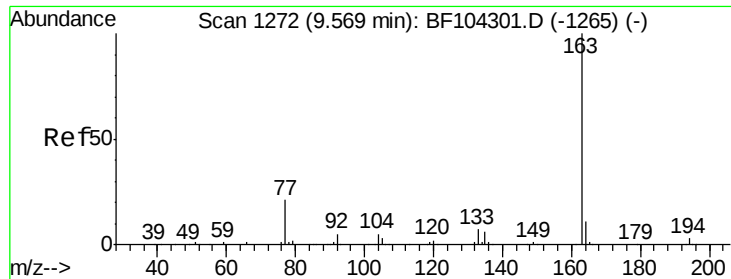
Sohil  
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#44  
 2-Fluorobiphenyl  
 Concen: 74.132 ng  
 RT: 9.15 min Scan# 1201  
 Delta R.T. -0.01 min  
 Lab File: BF105024.D  
 Acq: 2 May 2018 12:17

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 859369 |       |       |
| 171     | 36.0  | 29.7   | 44.5  |       |
| 170     | 24.0  | 19.6   | 29.4  |       |





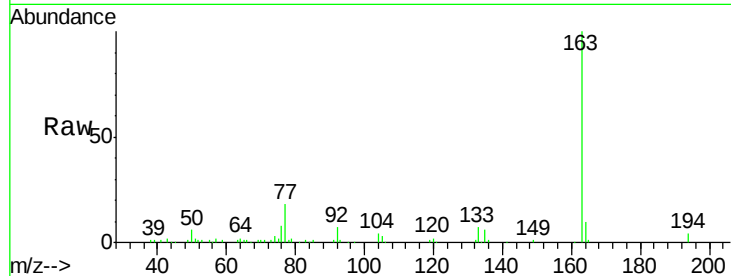
#49  
Dimethylphthalate  
Concen: 6.730 ng  
RT: 9.55 min Scan# 1268  
Delta R.T. -0.01 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-043018-E

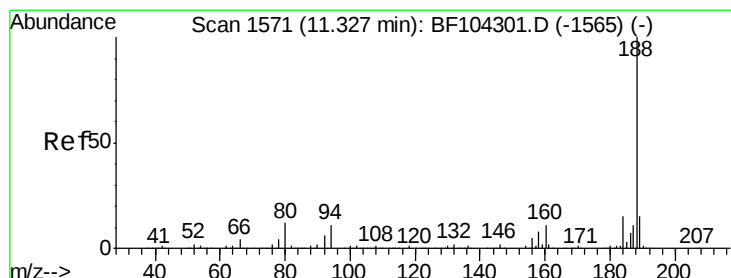
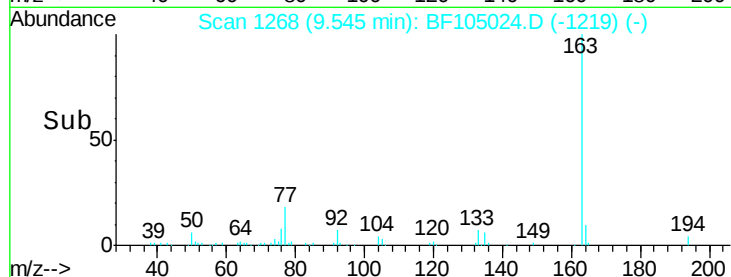
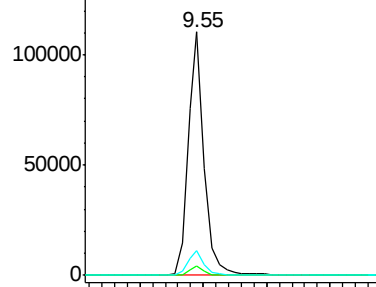
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 97192 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.6   | 2.7   | 4.1   |
| 164       | 10.3  | 8.2   | 12.2  |

Manual Integrations  
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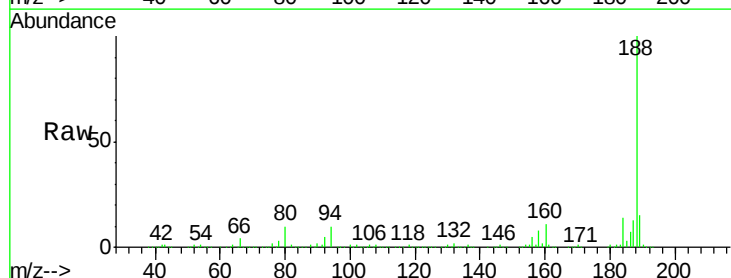


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

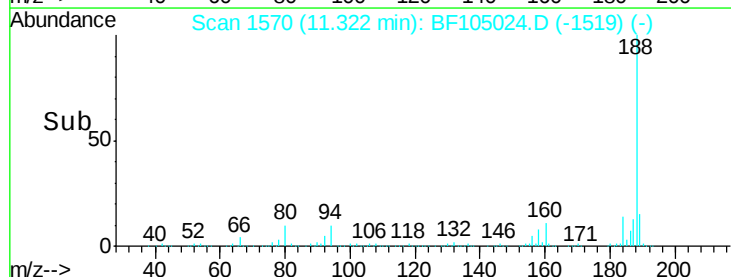
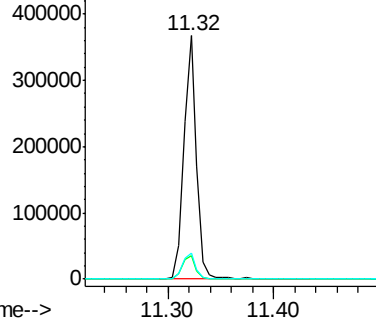


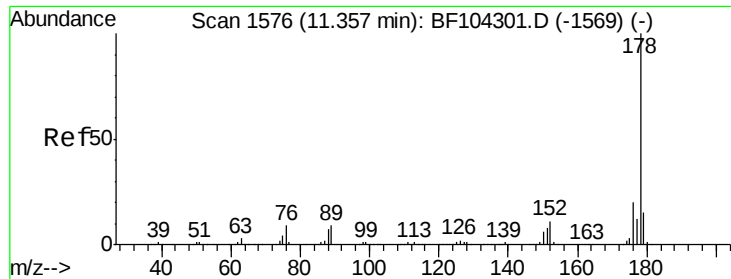
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.00 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 310827 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.6   | 8.5   | 12.7   |
| 80        | 10.5  | 9.2   | 13.8   |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1





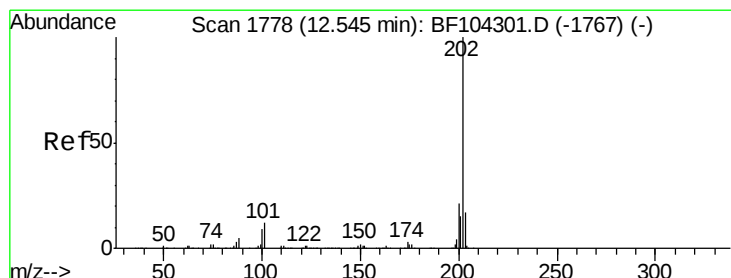
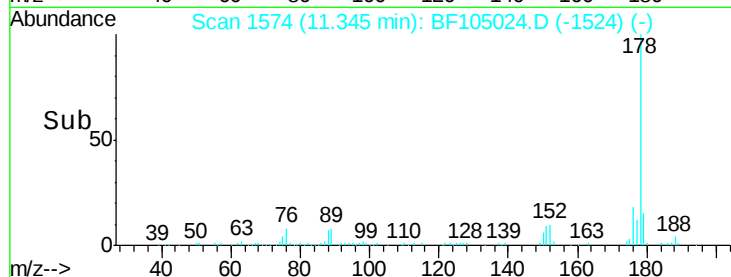
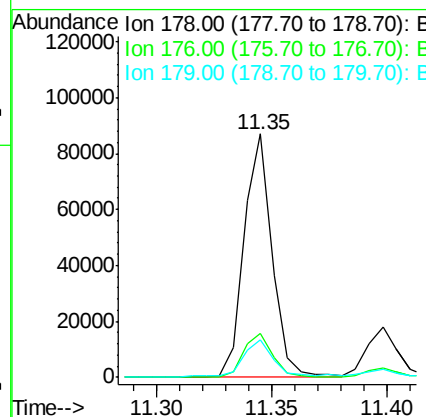
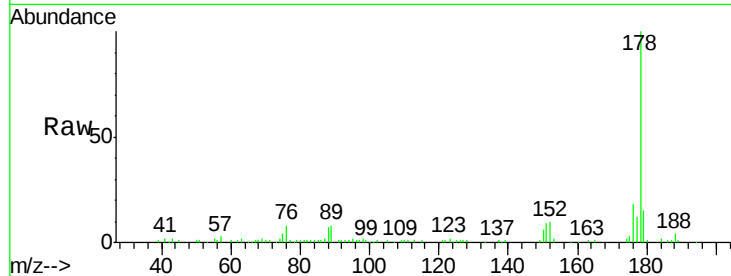
#70  
Phenanthrene  
Concen: 4.297 ng  
RT: 11.35 min Scan# 1574  
Delta R.T. -0.01 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-043018-E

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.2  | 15.8  | 23.8  |
| 179     | 15.2  | 13.0  | 19.6  |

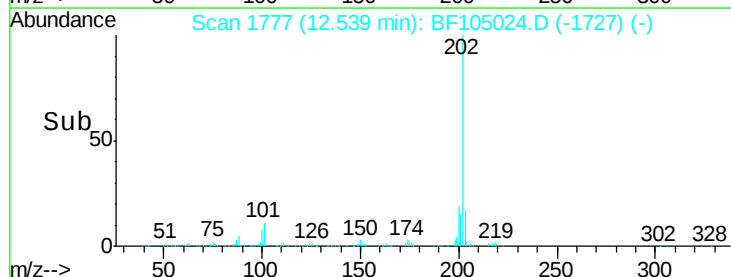
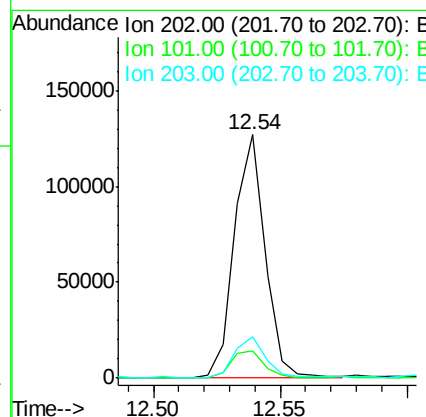
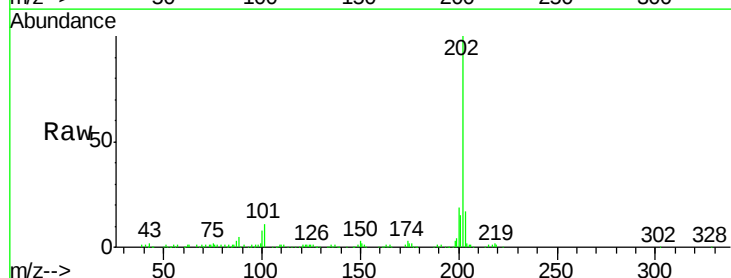
Manual Integrations  
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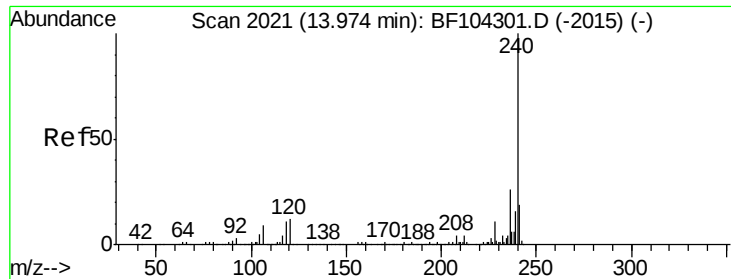
Sohil  
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#74  
Fluoranthene  
Concen: 5.955 ng  
RT: 12.54 min Scan# 1777  
Delta R.T. -0.01 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.1  | 0.0   | 34.1  |
| 203     | 17.1  | 0.0   | 38.1  |





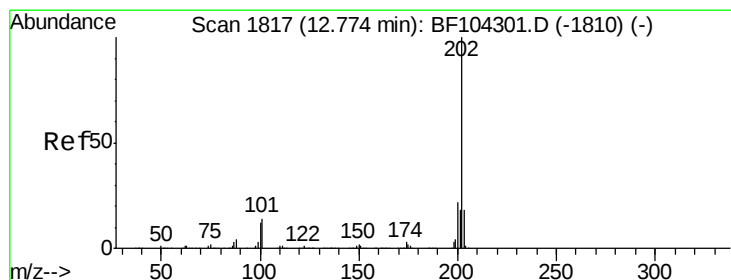
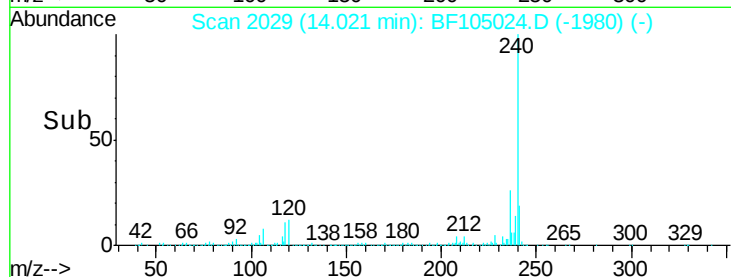
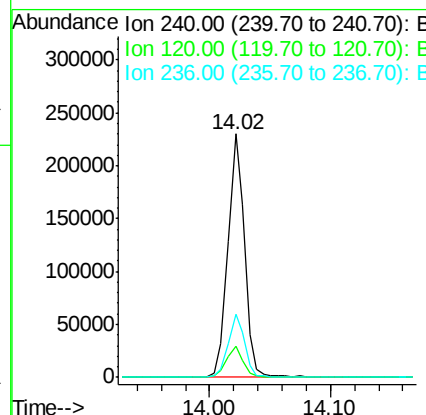
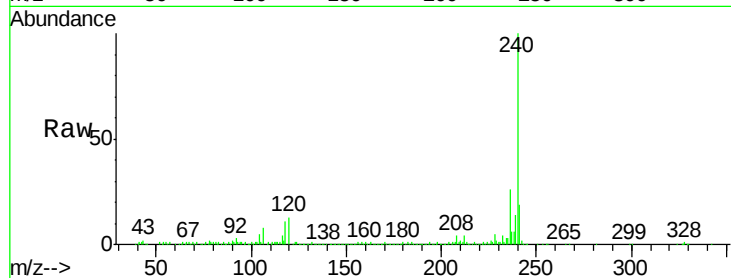
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF105024.D  
 Acq: 2 May 2018 12:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-043018-E

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.6  | 9.5   | 14.3  |
| 236     | 25.7  | 20.7  | 31.1  |

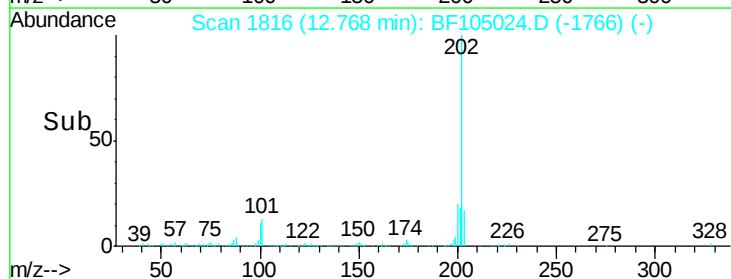
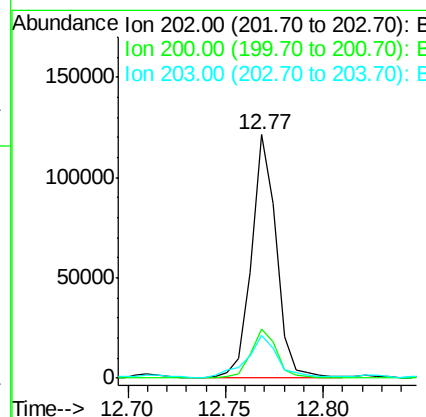
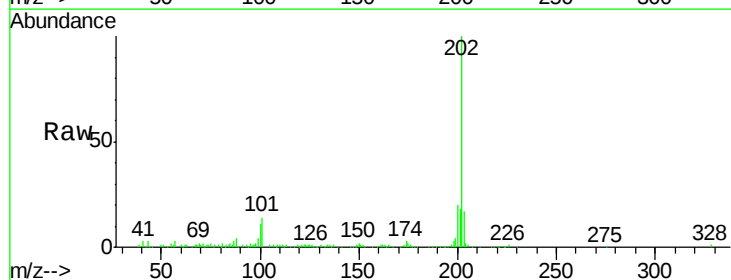
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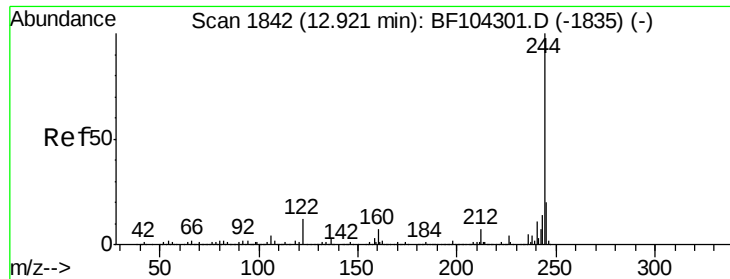
Sohil  
 5/3/2018 5:00:44 PM



#77  
 Pyrene  
 Concen: 6.567 ng  
 RT: 12.77 min Scan# 1816  
 Delta R.T. -0.01 min  
 Lab File: BF105024.D  
 Acq: 2 May 2018 12:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.2  | 17.4  | 26.2  |
| 203     | 17.4  | 14.3  | 21.5  |





#78

Terphenyl-d14

Concen: 71.044 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.00 min

Lab File: BF105024.D

Acq: 2 May 2018 12:17

Instrument :

BNA\_F

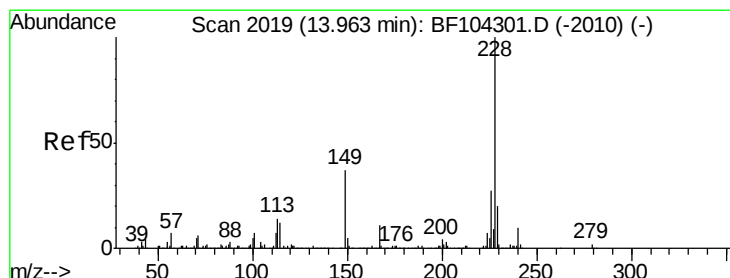
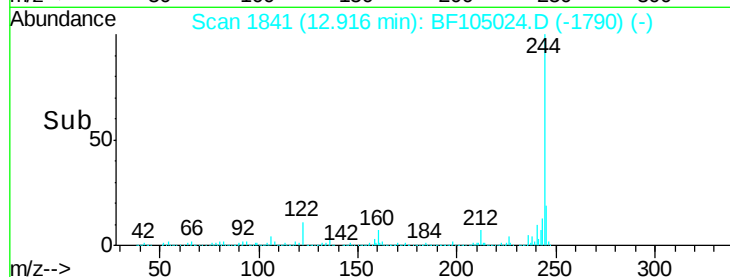
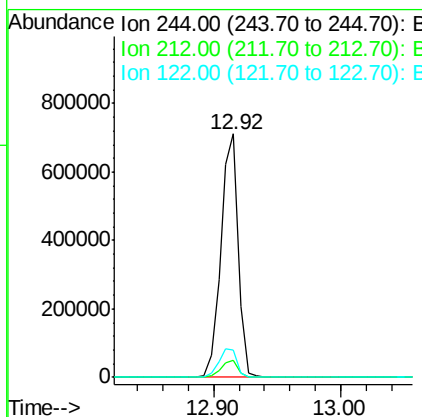
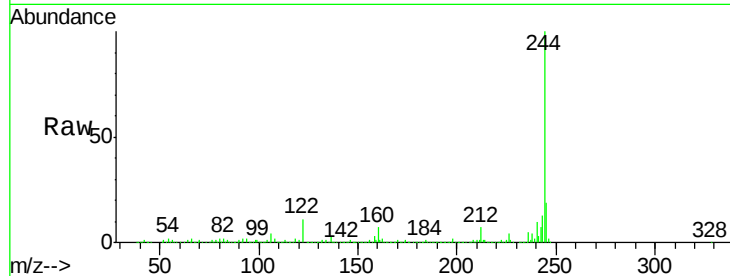
ClientSampleId :

CL-02-043018-E

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 244  | Resp: | 680816 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 7.0  | 5.4   | 8.0    |
| 122       | 11.3 | 11.0  | 16.4   |

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#80

Benzo(a)anthracene

Concen: 3.804 ng

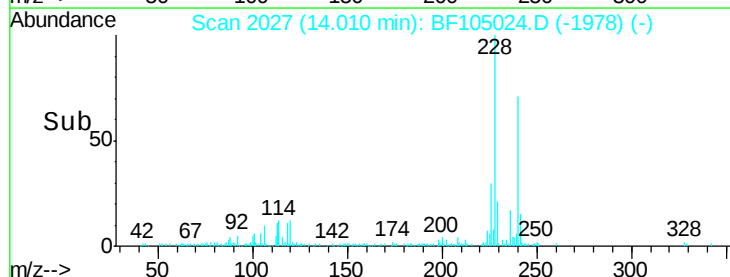
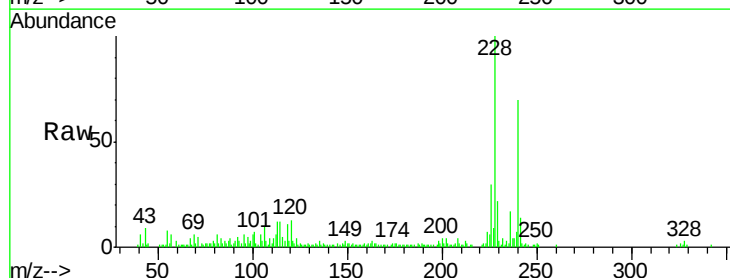
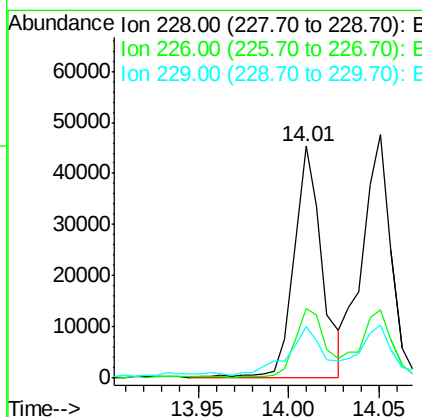
RT: 14.01 min Scan# 2027

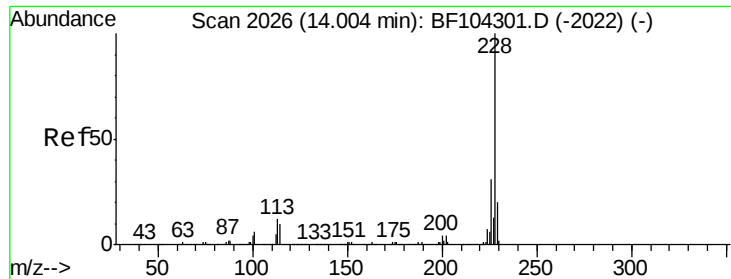
Delta R.T. -0.01 min

Lab File: BF105024.D

Acq: 2 May 2018 12:17

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 228  | Resp: | 49652 |
| Ion Ratio |      | Lower | Upper |
| 228       | 100  |       |       |
| 226       | 29.8 | 22.6  | 33.8  |
| 229       | 22.0 | 15.8  | 23.6  |





#82

Chrysene

Concen: 3.973 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF105024.D

Acq: 2 May 2018 12:17

Instrument :

BNA\_F

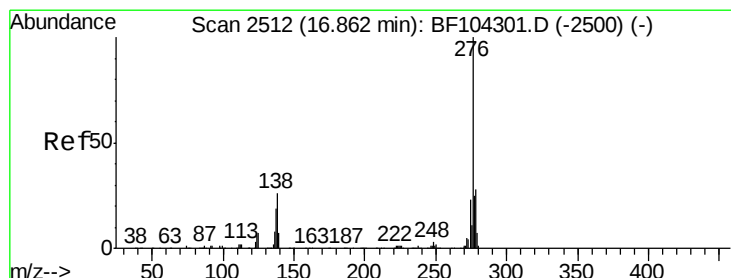
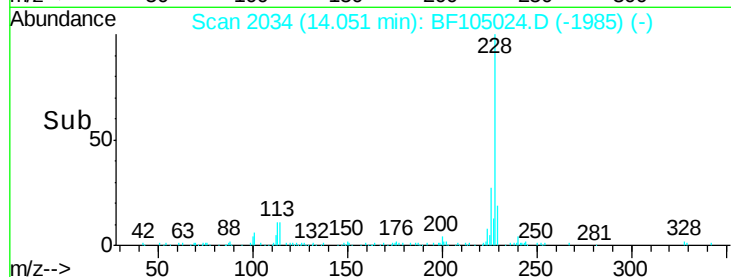
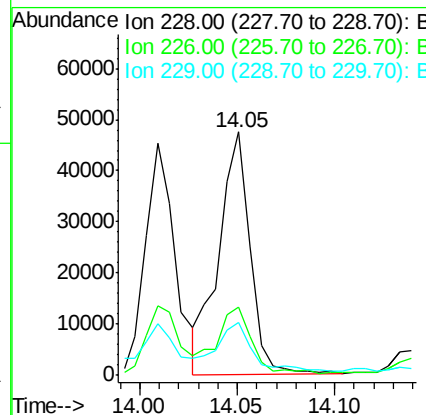
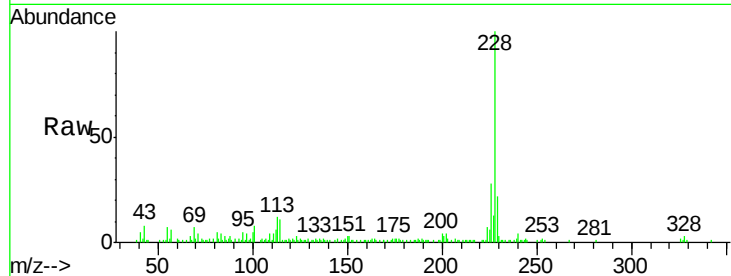
ClientSampleId :

CL-02-043018-E

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 53264 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.3  | 25.0  | 37.6  |
| 229       | 21.7  | 16.2  | 24.4  |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.322 ng

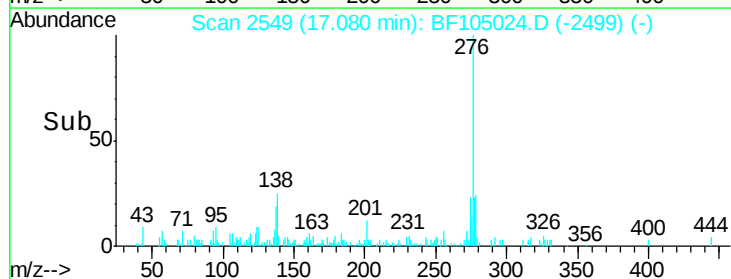
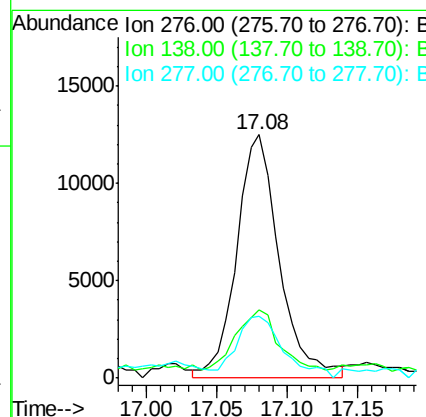
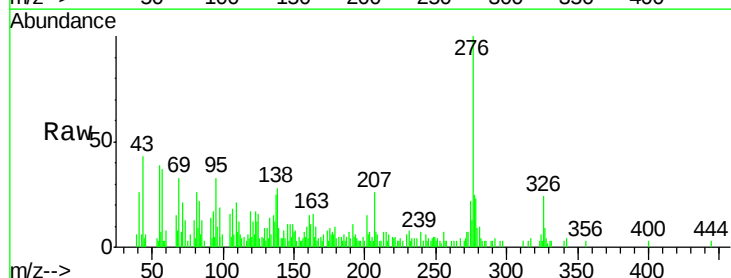
RT: 17.08 min Scan# 2549

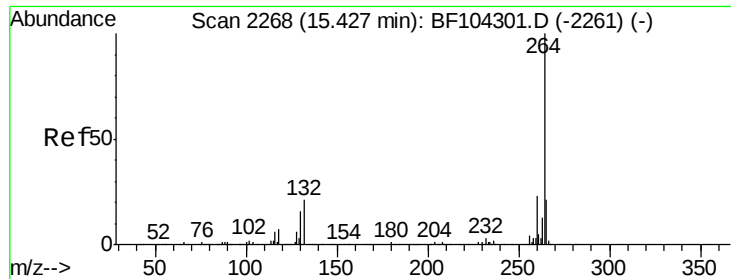
Delta R.T. -0.01 min

Lab File: BF105024.D

Acq: 2 May 2018 12:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 26443 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.5  | 25.0  | 37.6# |
| 277       | 28.2  | 20.1  | 30.1  |





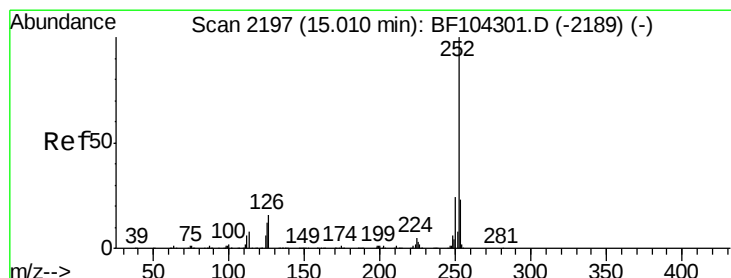
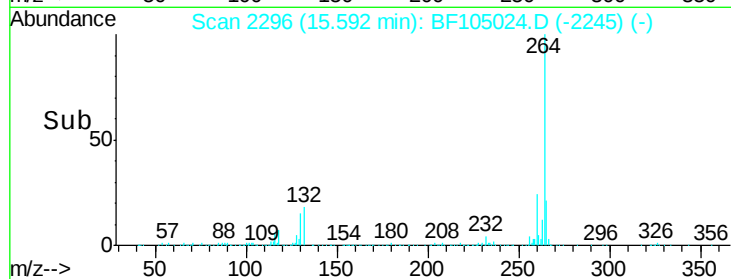
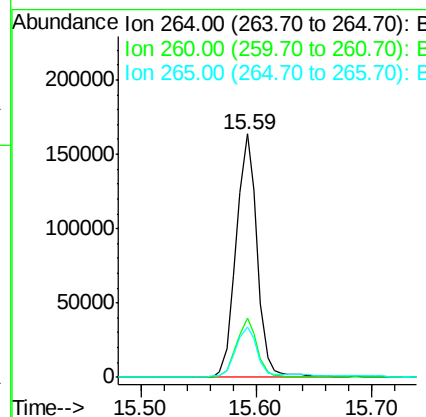
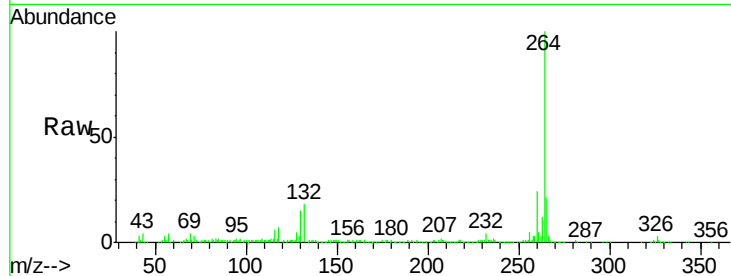
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.59 min Scan# 2296  
Delta R.T. -0.00 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-043018-E

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.2  | 28.8  |
| 265     | 20.7  | 17.5  | 26.3  |

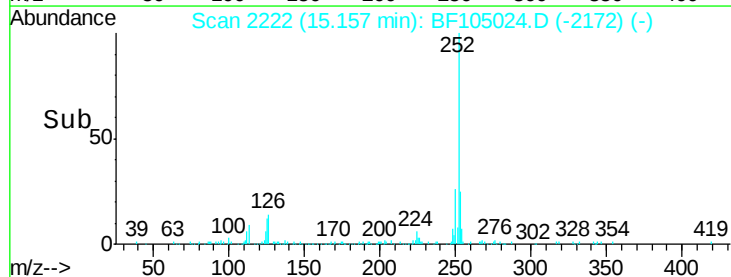
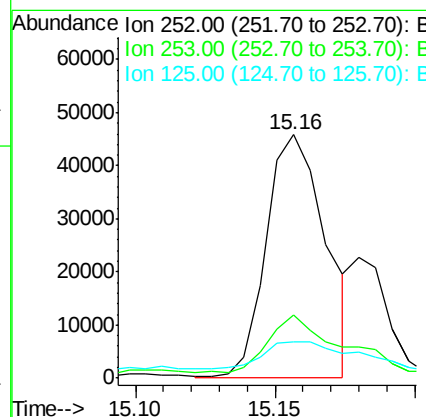
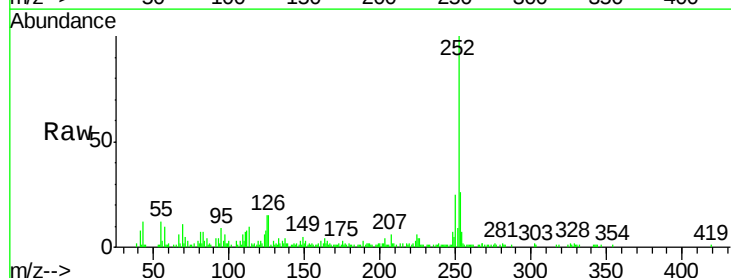
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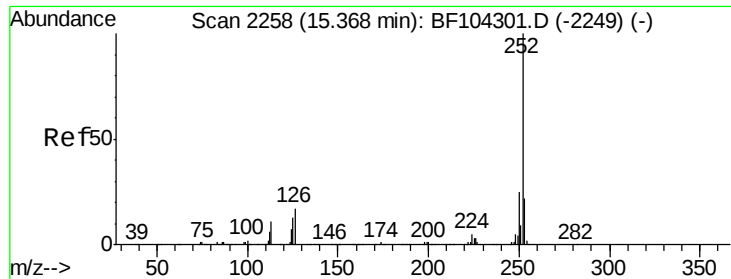
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#87  
Benzo(b)fluoranthene  
Concen: 5.225 ng m  
RT: 15.16 min Scan# 2222  
Delta R.T. -0.01 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.7  | 17.0  | 25.6# |
| 125     | 14.7  | 9.0   | 13.6# |





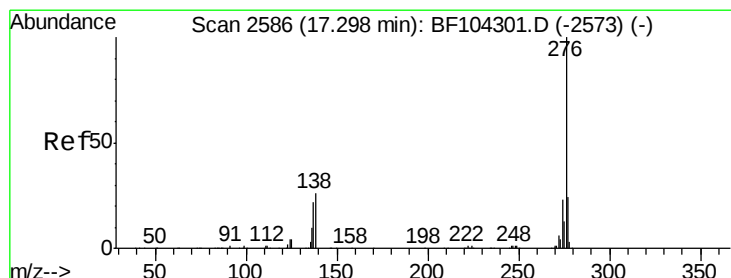
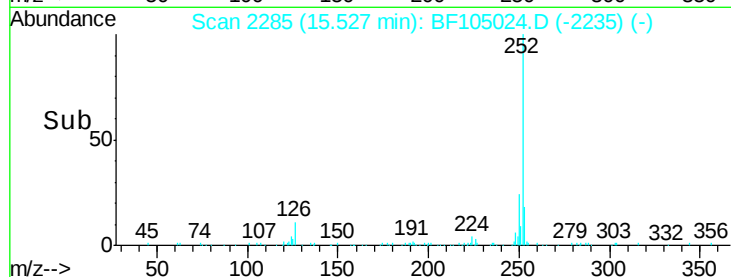
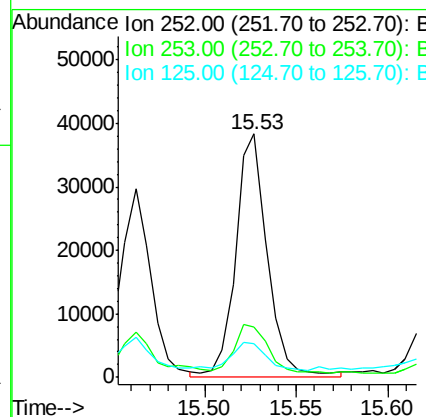
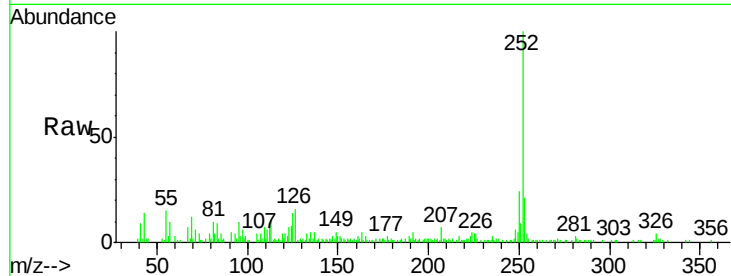
#89  
Benzo(a)pyrene  
Concen: 3.989 ng/ml  
RT: 15.53 min Scan# 2285  
Delta R.T. -0.01 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

Instrument :  
BNA\_F  
ClientSampleID :  
CL-02-043018-E

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 20.9  | 17.1  | 25.7  |
| 125     | 13.8  | 9.8   | 14.6  |

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#91  
Benzo(g,h,i)perylene  
Concen: 2.861 ng/ml  
RT: 17.53 min Scan# 2626  
Delta R.T. -0.00 min  
Lab File: BF105024.D  
Acq: 2 May 2018 12:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.7  | 17.9  | 26.9  |
| 138     | 24.7  | 21.8  | 32.8  |

