

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\  
 Data File : BF116373.D  
 Acq On : 18 Aug 2019 2:45  
 Operator : HP/JU  
 Sample : K4384-02  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-2(1.5-2.5)

Manual Integrations  
 APPROVED

Jagrut  
 8/19/2019 3:31:22 PM

Quant Time: Aug 19 07:53:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 07 11:13:18 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.81  | 152  | 128615   | 20.00 | ng    | -0.04    |
| 21) Naphthalene-d8          | 8.09  | 136  | 493408   | 20.00 | ng    | -0.04    |
| 39) Acenaphthene-d10        | 9.84  | 164  | 247653   | 20.00 | ng    | -0.05    |
| 64) Phenanthrene-d10        | 11.33 | 188  | 378531   | 20.00 | ng    | -0.04    |
| 76) Chrysene-d12            | 13.97 | 240  | 235967   | 20.00 | ng    | -0.04    |
| 87) Perylene-d12            | 15.43 | 264  | 262156   | 20.00 | ng    | -0.05    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.44  | 112  | 529438   | 68.91 | ng    | -0.03    |
| 7) Phenol-d6                | 6.45  | 99   | 691874   | 71.38 | ng    | -0.04    |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 428894   | 50.18 | ng    | -0.04    |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 137181   | 57.13 | ng    | -0.04    |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 747625   | 56.55 | ng    | -0.04    |
| 79) Terphenyl-d14           | 12.90 | 244  | 623026   | 55.64 | ng    | -0.05    |
| Target Compounds            |       |      |          |       |       |          |
| 10) Phenol                  | 6.46  | 94   | 34297    | 3.005 | ng    | 84       |
| 50) Dimethylphthalate       | 9.56  | 163  | 76871    | 4.559 | ng    | 99       |
| 71) Phenanthrene            | 11.35 | 178  | 60039    | 3.103 | ng    | 98       |
| 75) Fluoranthene            | 12.55 | 202  | 90707    | 4.477 | ng    | 98       |
| 78) Pyrene                  | 12.77 | 202  | 79624    | 4.476 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.96 | 228  | 38349    | 2.543 | ng    | 97       |
| 83) Chrysene                | 14.00 | 228  | 33596    | 2.294 | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 15.02 | 252  | 42059m   | 2.775 | ng    |          |
| 90) Benzo(a)pyrene          | 15.37 | 252  | 29096    | 2.147 | ng    | 97       |

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

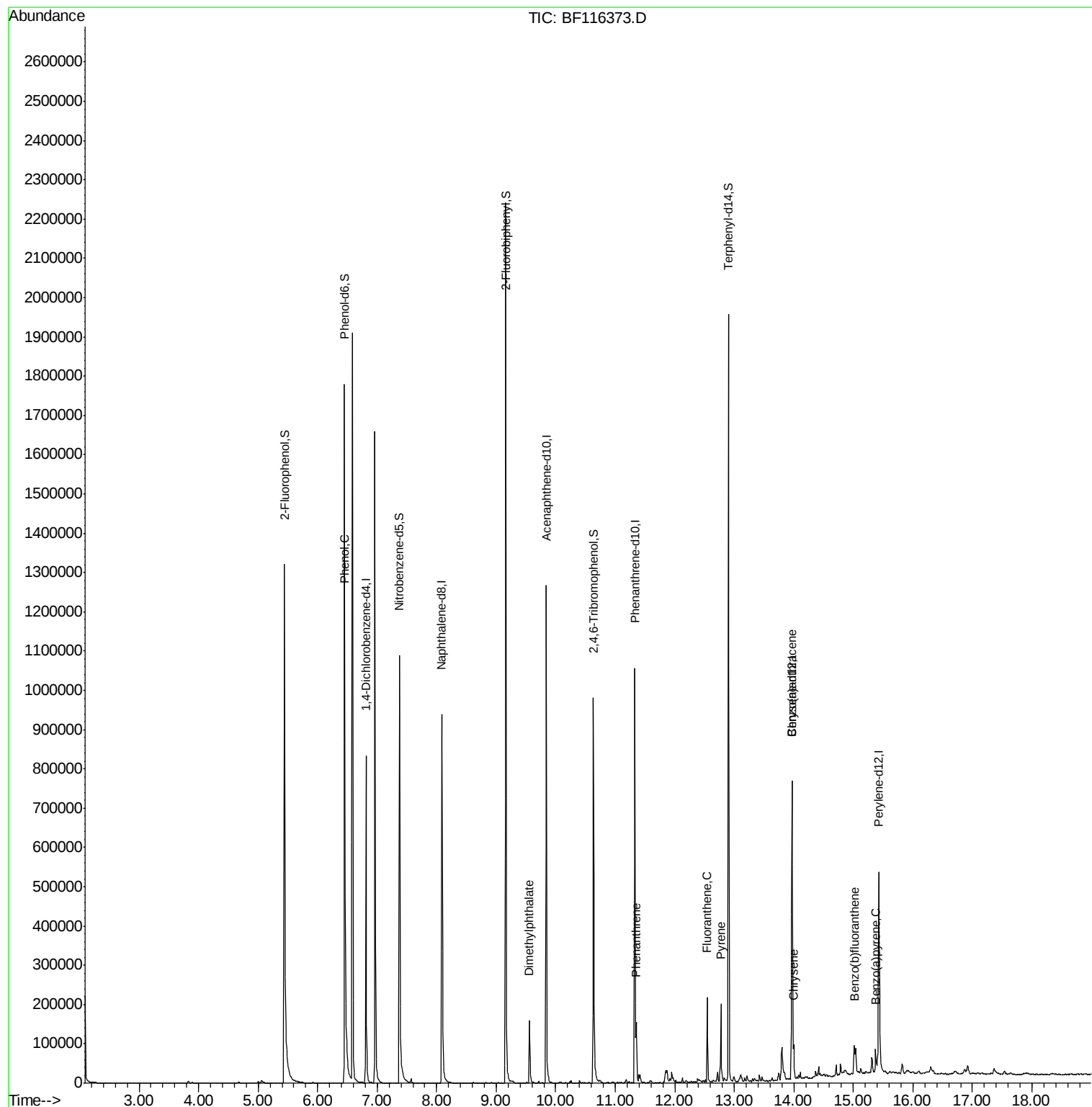
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\  
Data File : BF116373.D  
Acq On : 18 Aug 2019 2:45  
Operator : HP/JU  
Sample : K4384-02  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

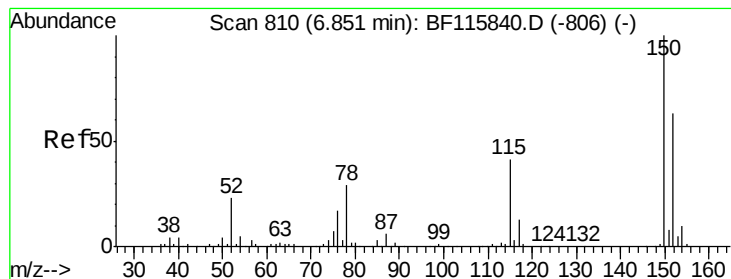
Instrument :  
BNA\_F  
ClientSampleId :  
B-2(1.5-2.5)

Manual Integrations  
APPROVED

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Quant Time: Aug 19 07:53:47 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 11:13:18 2019  
Response via : Initial Calibration





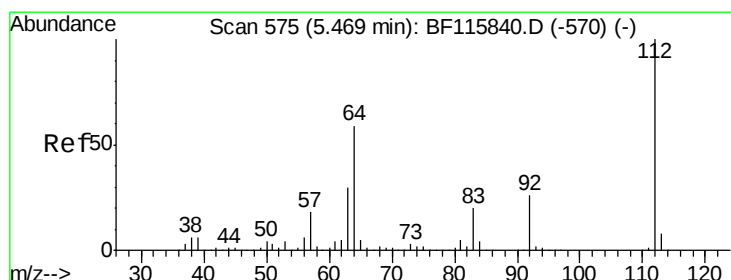
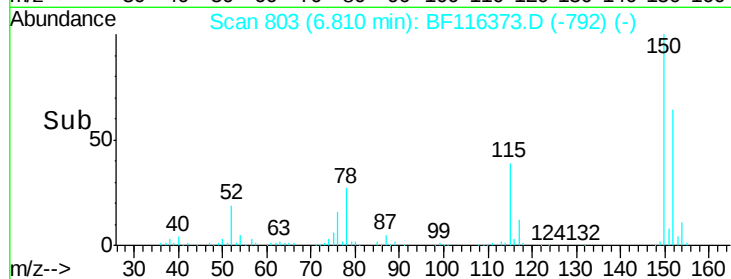
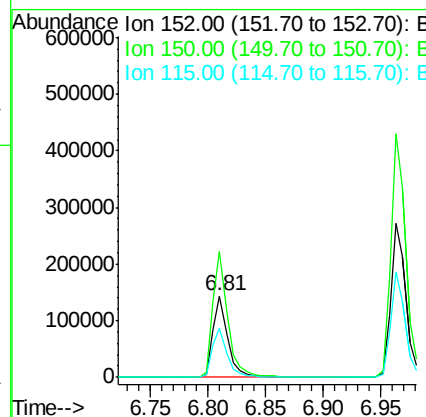
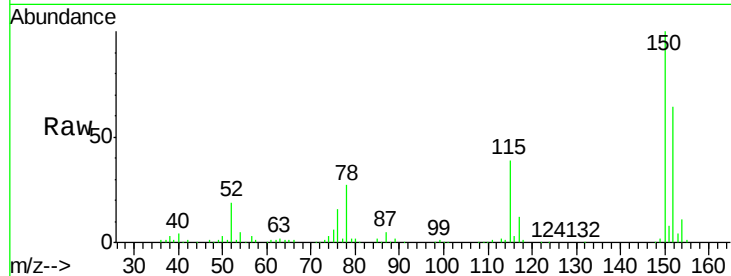
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.81 min Scan# 803  
 Delta R.T. -0.04 min  
 Lab File: BF116373.D  
 Acq: 18 Aug 2019 2:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-2(1.5-2.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.7 | 126.2 | 189.2 |
| 115     | 60.8  | 49.9  | 74.9  |

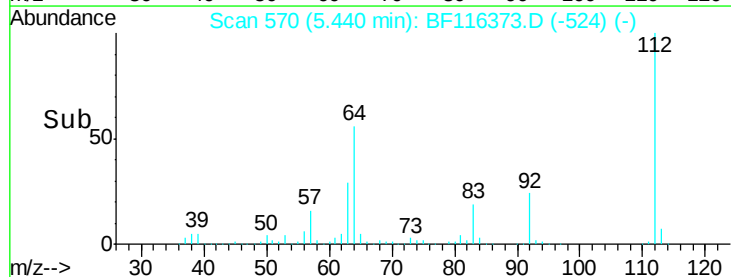
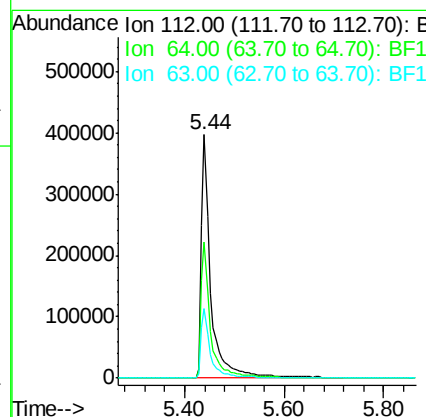
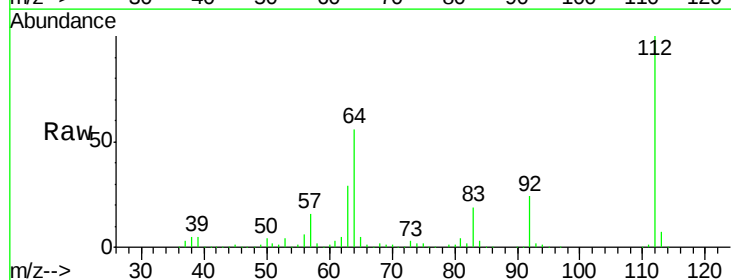
Manual Integrations  
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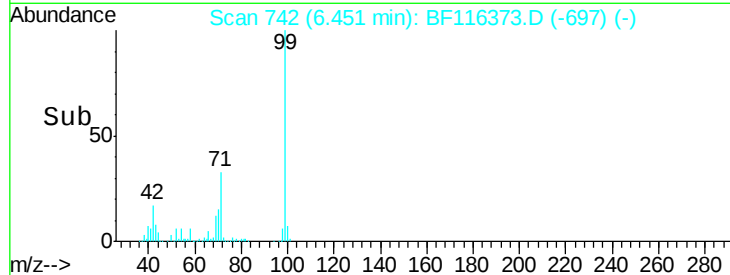
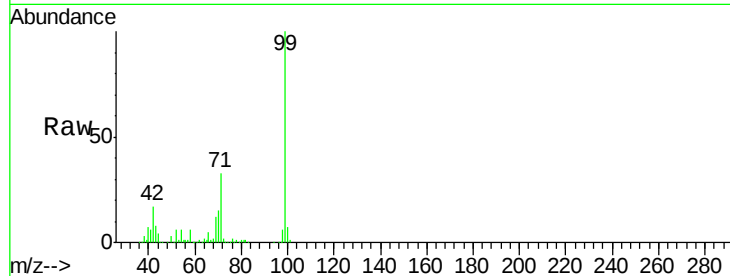
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#5  
 2-Fluorophenol  
 Concen: 68.912 ng  
 RT: 5.44 min Scan# 570  
 Delta R.T. -0.03 min  
 Lab File: BF116373.D  
 Acq: 18 Aug 2019 2:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.1  | 45.4  | 68.2  |
| 63      | 28.6  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 71.377 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.04 min

Lab File: BF116373.D

Acq: 18 Aug 2019 2:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 691874 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.7  | 13.8  | 20.8   |
| 71        | 32.6  | 27.3  | 40.9   |

Instrument :

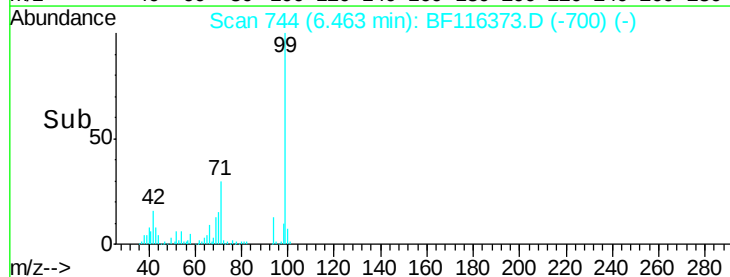
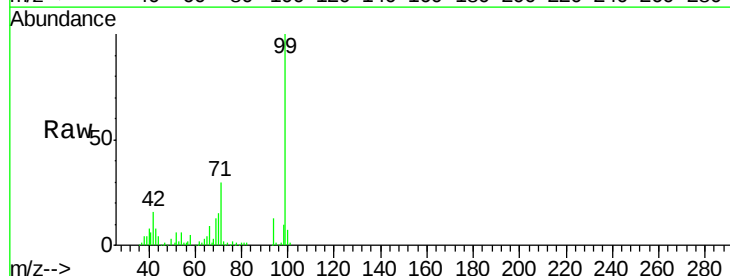
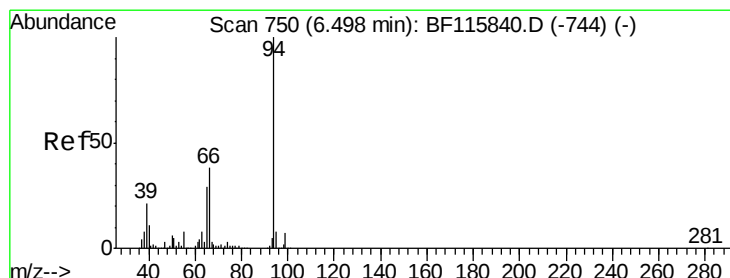
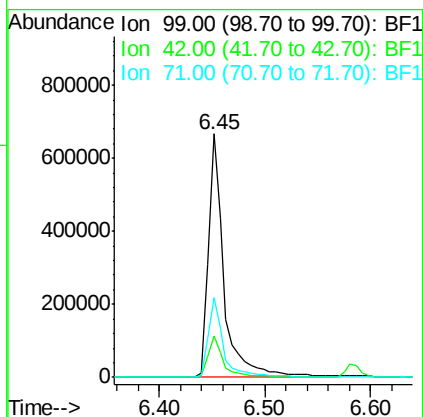
BNA\_F

ClientSampled :

B-2(1.5-2.5)

Manual Integrations  
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#10

Phenol

Concen: 3.005 ng

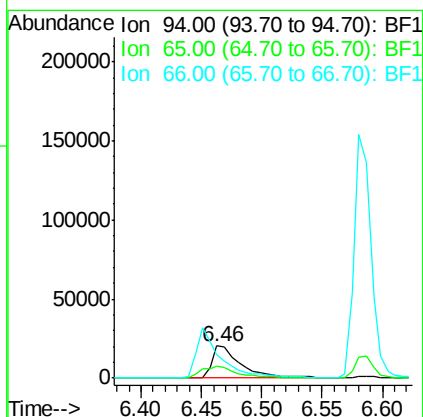
RT: 6.46 min Scan# 744

Delta R.T. -0.04 min

Lab File: BF116373.D

Acq: 18 Aug 2019 2:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 34297 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 35.3  | 16.8  | 56.8  |
| 66        | 72.0  | 34.2  | 74.2  |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.04 min

Lab File: BF116373.D

Acq: 18 Aug 2019 2:45

Instrument :

BNA\_F

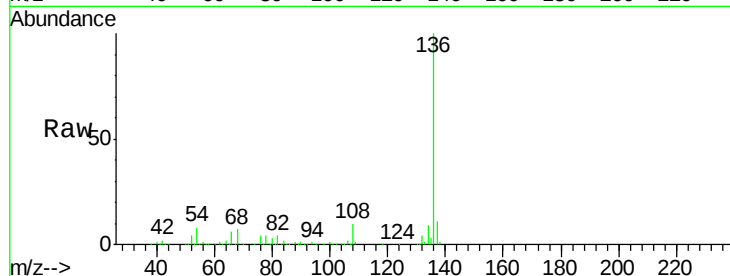
ClientSampleId :

B-2(1.5-2.5)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 493408 |       |       |
| 137     | 11.5 |       | 9.0    | 13.4  |       |
| 54      | 7.8  |       | 5.8    | 8.6   |       |
| 68      | 6.7  |       | 5.2    | 7.8   |       |

Manual Integrations  
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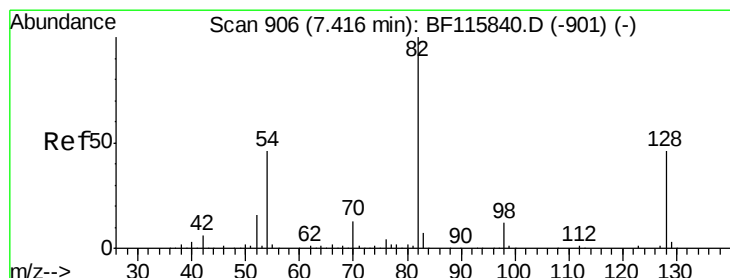
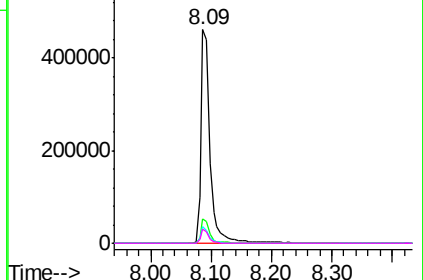
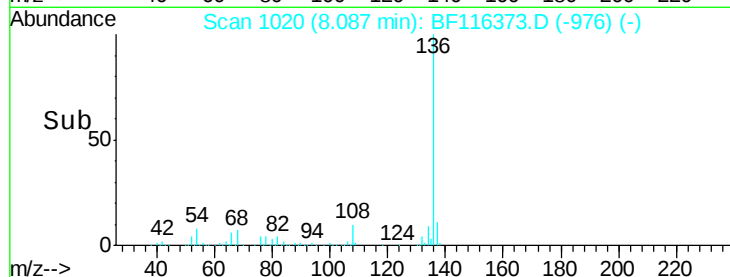


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 50.176 ng

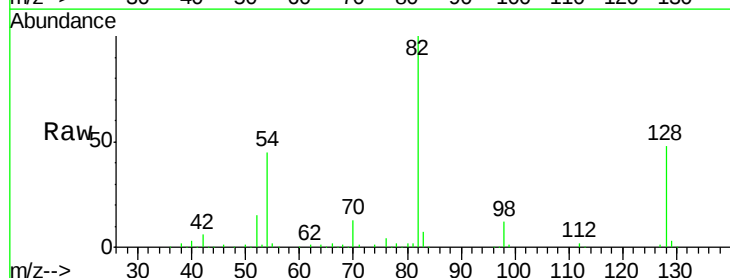
RT: 7.37 min Scan# 899

Delta R.T. -0.04 min

Lab File: BF116373.D

Acq: 18 Aug 2019 2:45

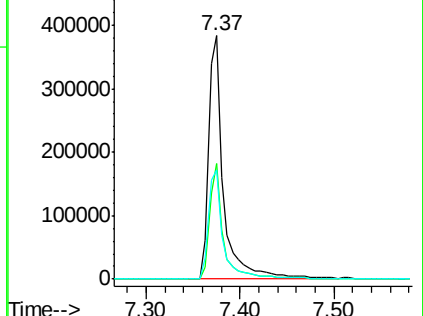
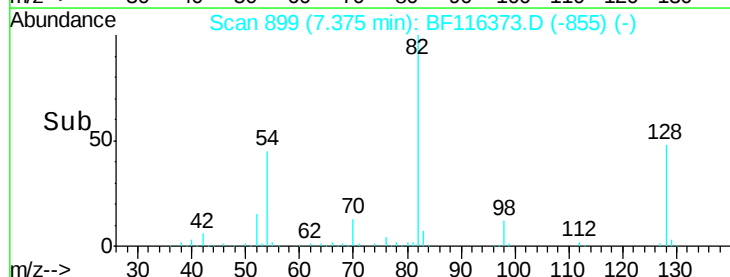
| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 82      | 100  |       | 428894 |       |       |
| 128     | 47.6 |       | 36.5   | 54.7  |       |
| 54      | 44.8 |       | 36.0   | 54.0  |       |

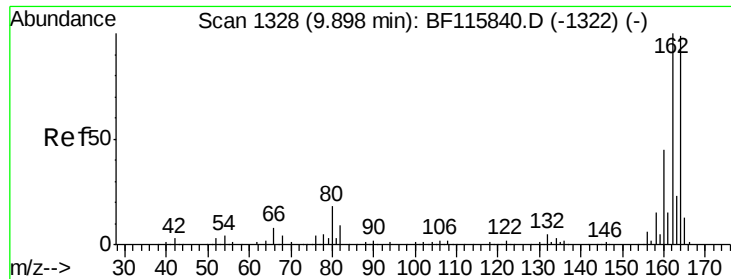


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.05 min

Lab File: BF116373.D

Acq: 18 Aug 2019 2:45

Instrument :

BNA\_F

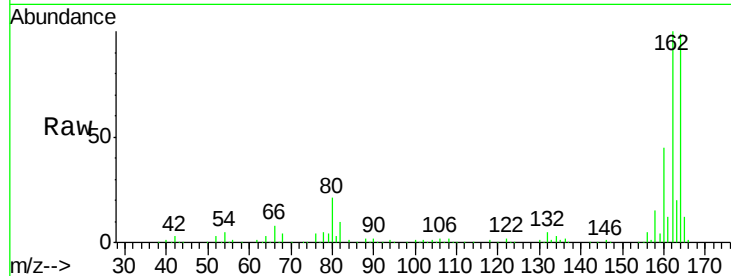
ClientSampleId :

B-2(1.5-2.5)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 247653 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 100.6 | 82.6  | 124.0  |
| 160       | 45.7  | 37.6  | 56.4   |

Manual Integrations  
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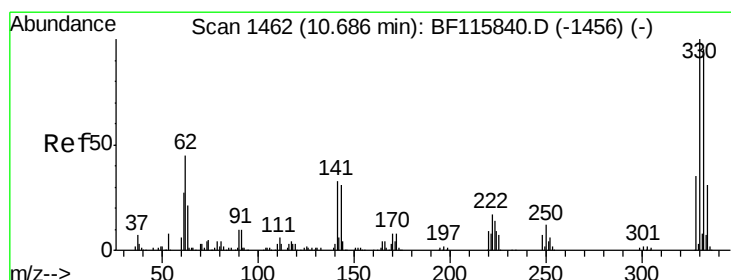
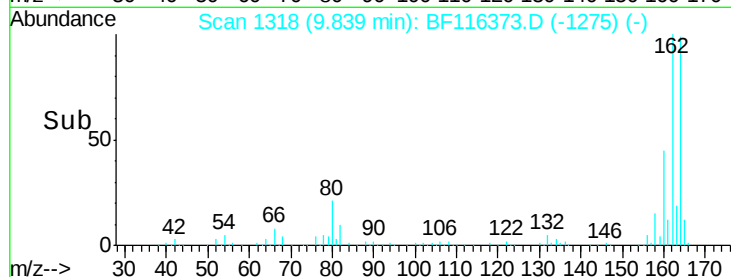
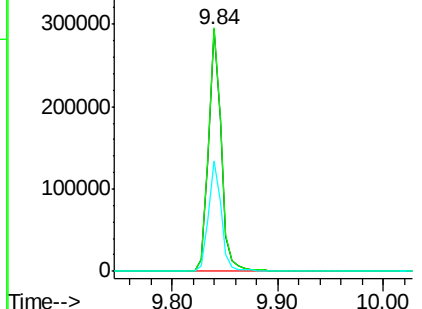
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 57.133 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.04 min

Lab File: BF116373.D

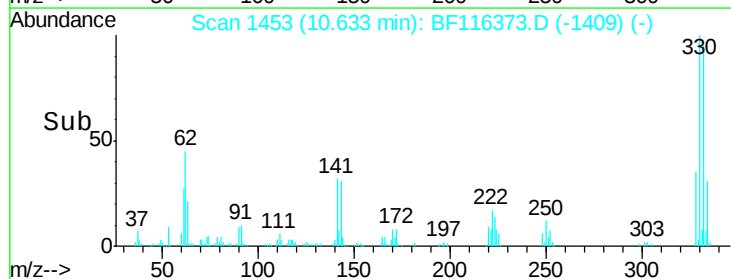
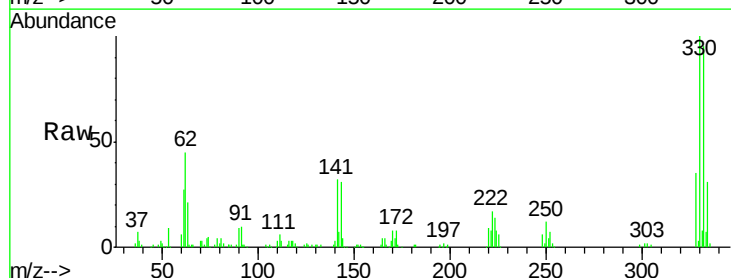
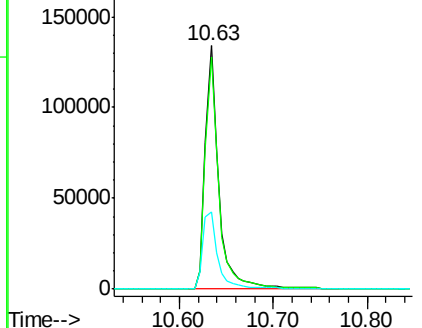
Acq: 18 Aug 2019 2:45

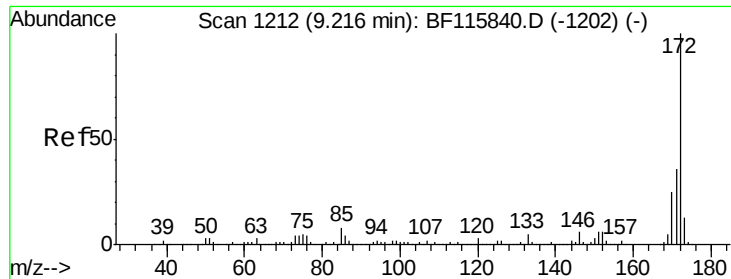
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 137181 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 96.3  | 76.8  | 115.2  |
| 141       | 35.4  | 26.3  | 39.5   |

Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





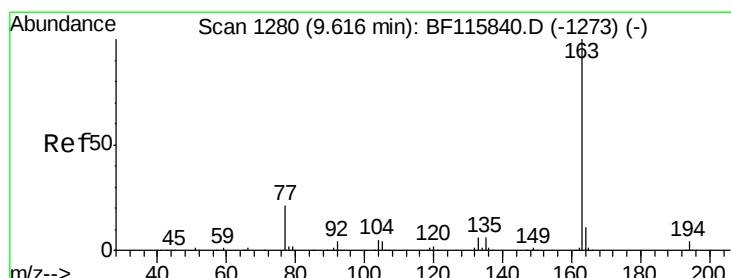
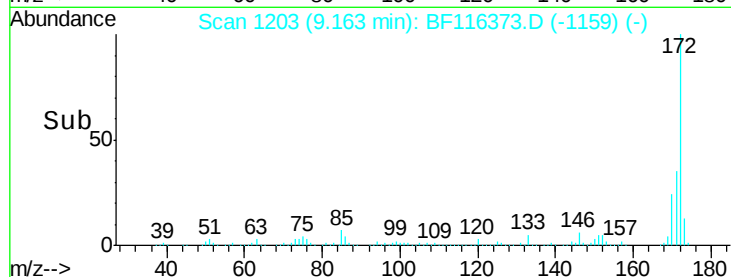
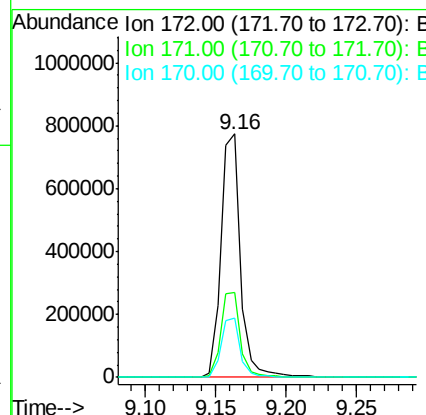
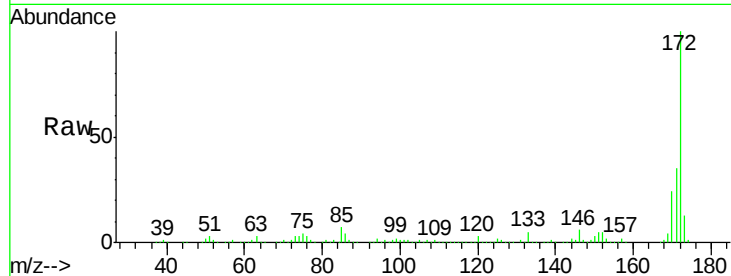
#45  
2-Fluorobiphenyl  
Concen: 56.545 ng  
RT: 9.16 min Scan# 1203  
Delta R.T. -0.04 min  
Lab File: BF116373.D  
Acq: 18 Aug 2019 2:45

Instrument :  
BNA\_F  
ClientSampled :  
B-2(1.5-2.5)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 172     | 100   |            |       |
| 171     | 35.0  | 29.6       | 44.4  |
| 170     | 24.1  | 20.1       | 30.1  |

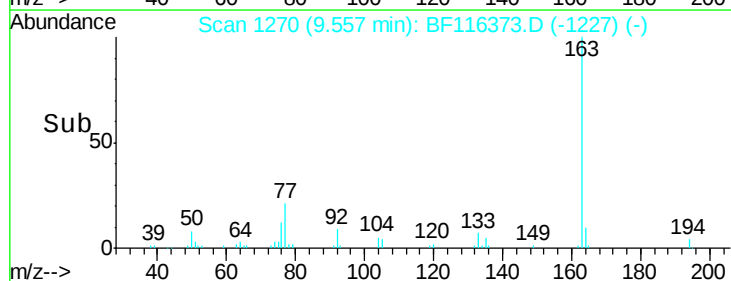
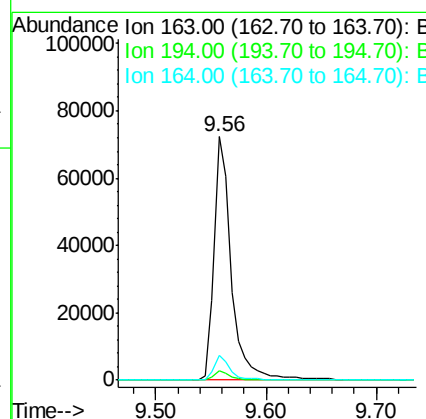
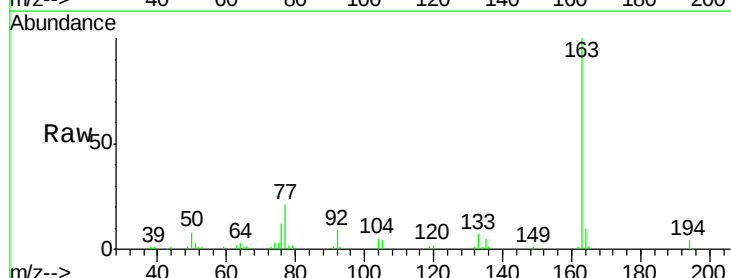
Manual Integrations  
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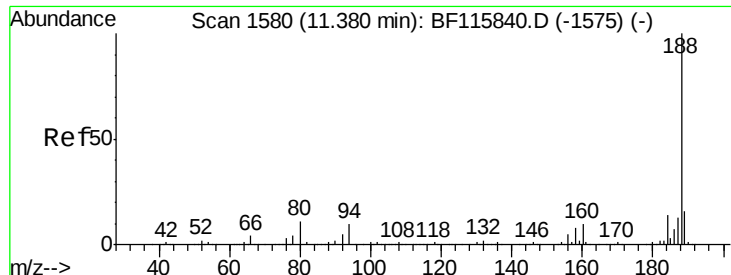
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#50  
Dimethylphthalate  
Concen: 4.559 ng  
RT: 9.56 min Scan# 1270  
Delta R.T. -0.05 min  
Lab File: BF116373.D  
Acq: 18 Aug 2019 2:45

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 3.8   | 3.0        | 4.6   |
| 164     | 10.2  | 8.4        | 12.6  |





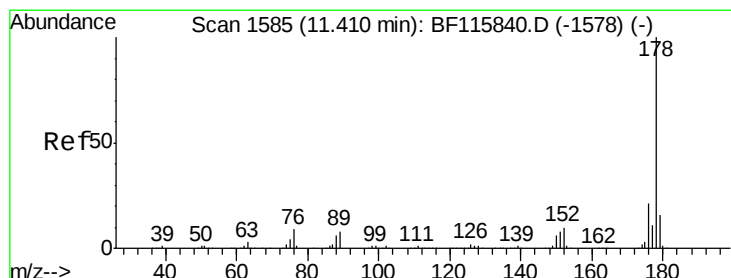
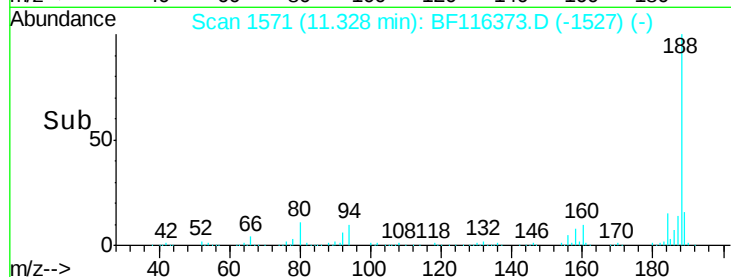
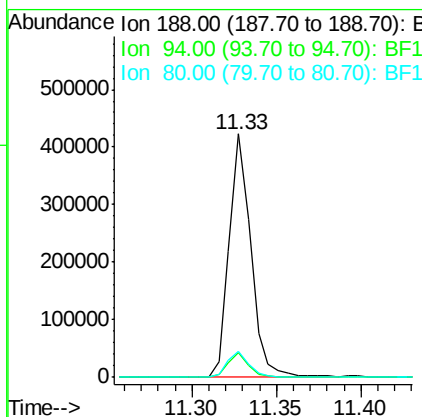
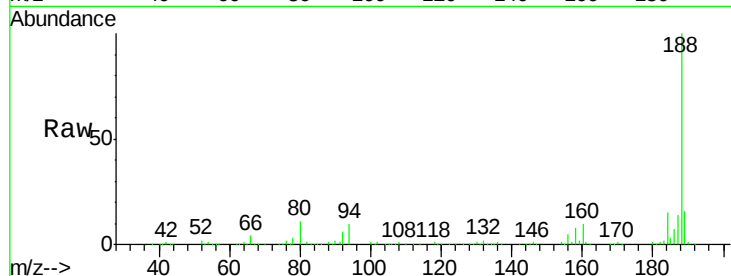
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1571  
 Delta R.T. -0.04 min  
 Lab File: BF116373.D  
 Acq: 18 Aug 2019 2:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-2(1.5-2.5)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 9.9   | 8.1        | 12.1  |
| 80      | 10.7  | 8.7        | 13.1  |

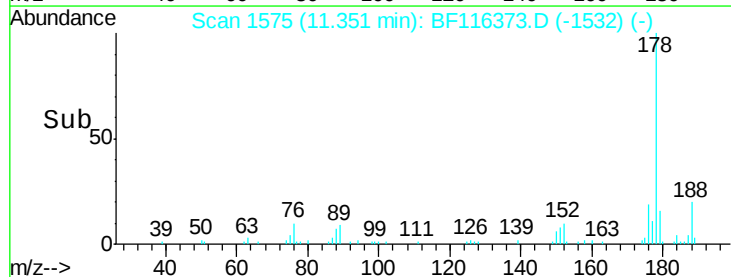
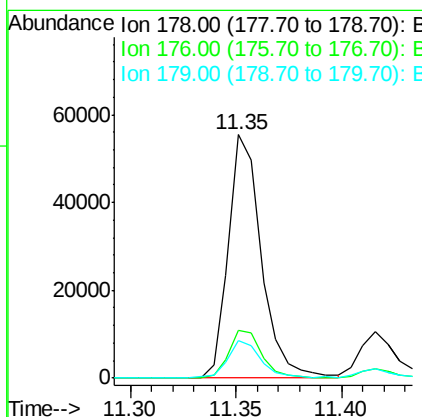
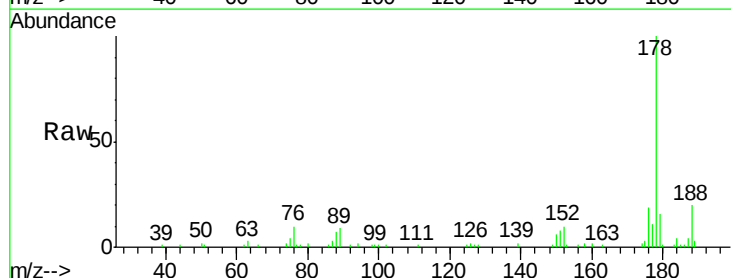
Manual Integrations  
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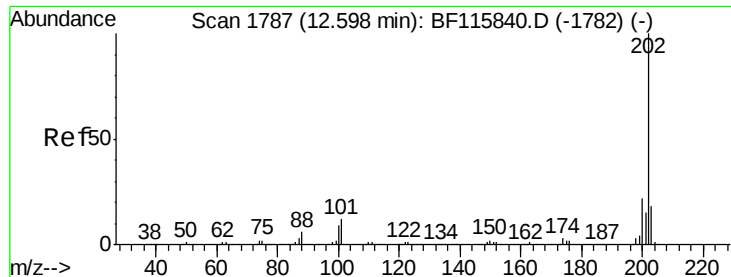
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#71  
 Phenanthrene  
 Concen: 3.103 ng  
 RT: 11.35 min Scan# 1575  
 Delta R.T. -0.05 min  
 Lab File: BF116373.D  
 Acq: 18 Aug 2019 2:45

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.4  | 16.6       | 24.8  |
| 179     | 15.5  | 12.5       | 18.7  |





#75

Fluoranthene

Concen: 4.477 ng

RT: 12.55 min Scan# 1778

Delta R.T. -0.04 min

Lab File: BF116373.D

Acq: 18 Aug 2019 2:45

Instrument :

BNA\_F

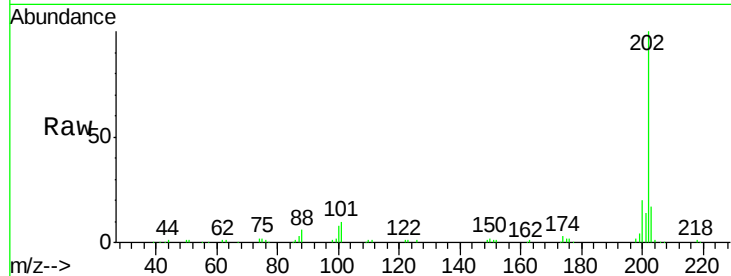
ClientSampled :

B-2(1.5-2.5)

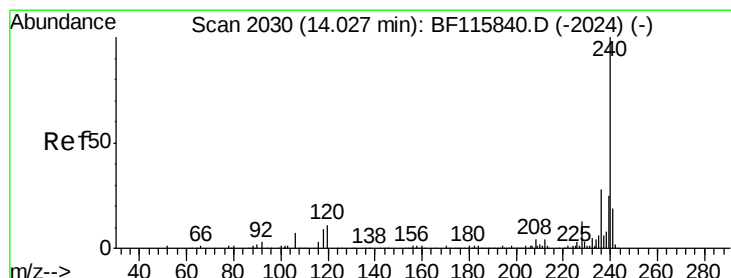
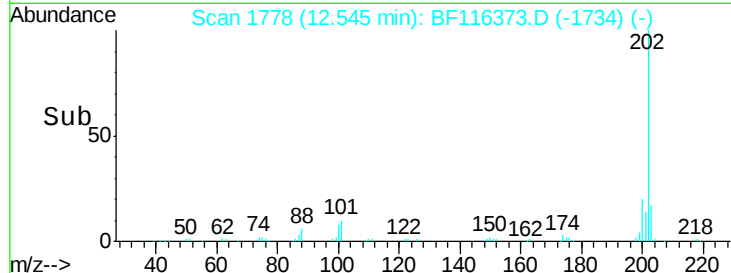
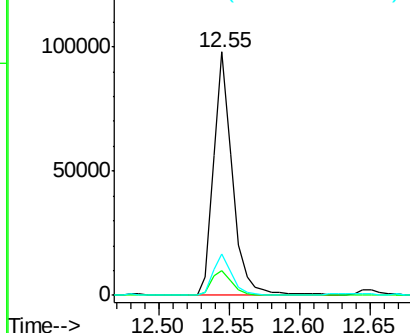
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.3  | 0.0        | 31.2  |
| 203     | 16.8  | 0.0        | 37.8  |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

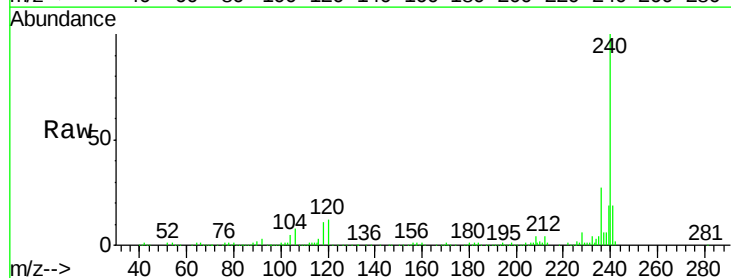
RT: 13.97 min Scan# 2020

Delta R.T. -0.04 min

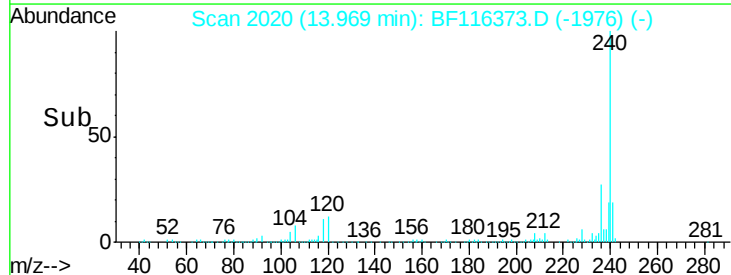
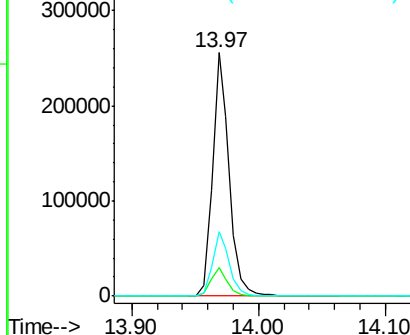
Lab File: BF116373.D

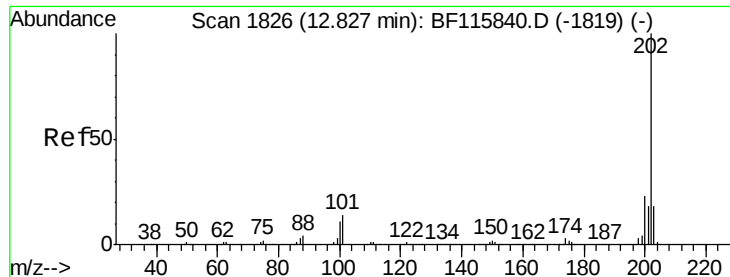
Acq: 18 Aug 2019 2:45

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 11.9  | 10.7       | 16.1  |
| 236     | 26.6  | 22.2       | 33.2  |



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





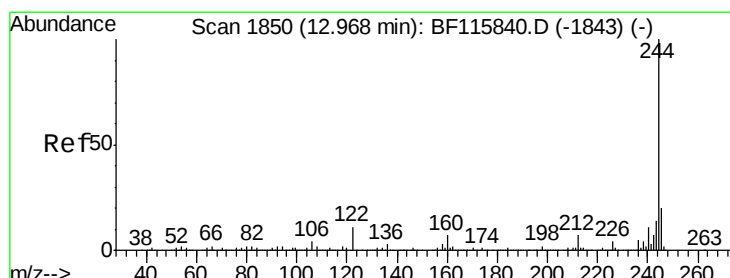
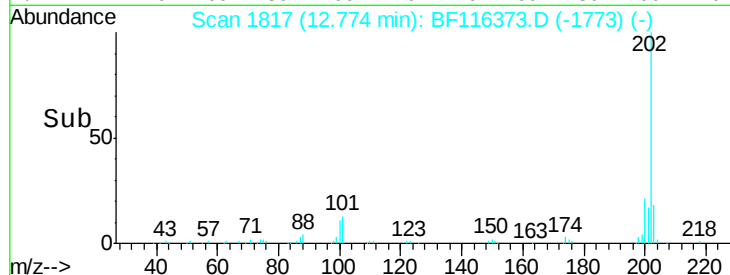
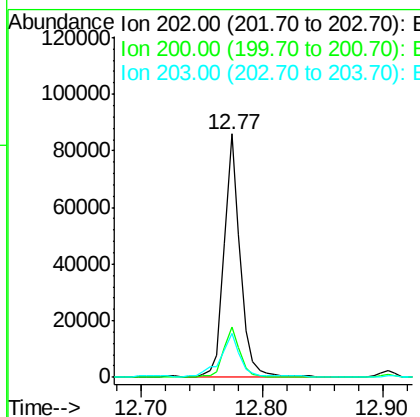
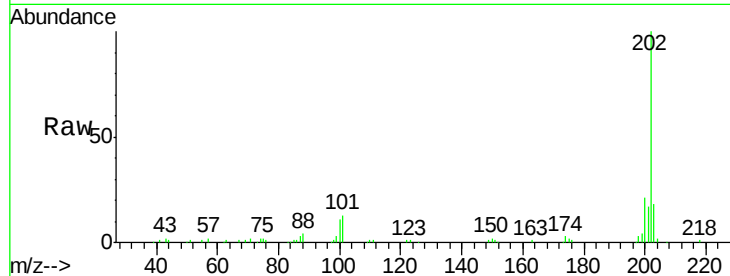
#78  
Pvrene  
Concen: 4.476 ng  
RT: 12.77 min Scan# 1817  
Delta R.T. -0.04 min  
Lab File: BF116373.D  
Acq: 18 Aug 2019 2:45

Instrument :  
BNA\_F  
ClientSampleId :  
B-2(1.5-2.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 18.0  | 27.0  |
| 203     | 17.9  | 14.1  | 21.1  |

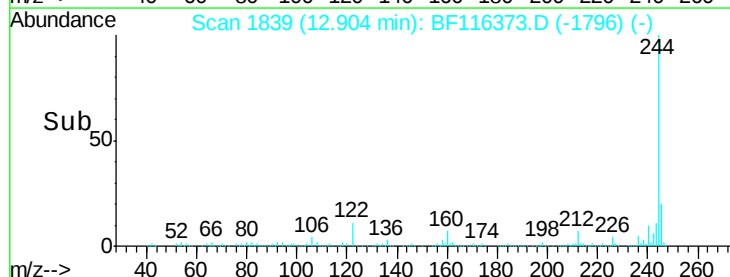
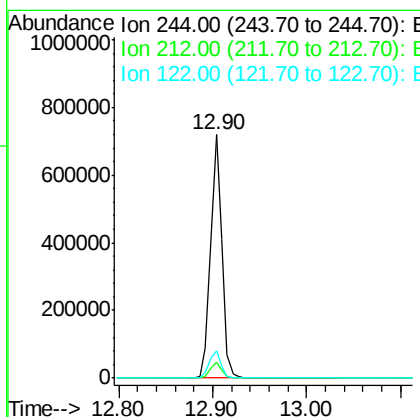
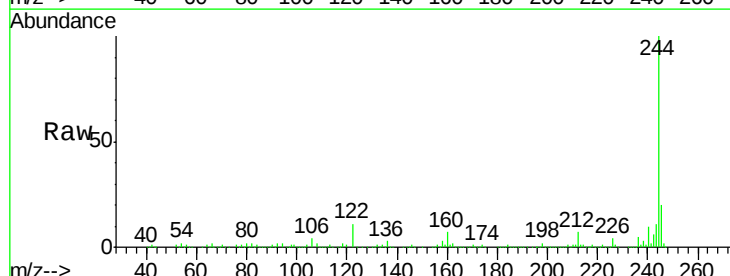
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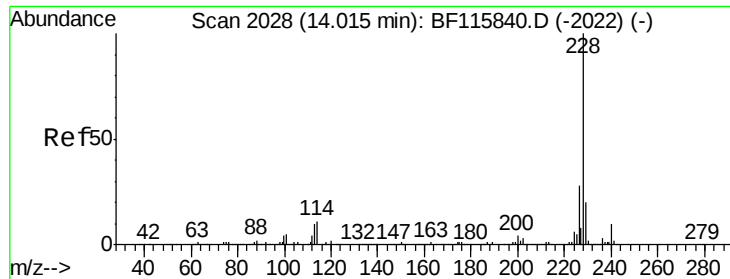
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#79  
Terphenyl-d14  
Concen: 55.636 ng  
RT: 12.90 min Scan# 1839  
Delta R.T. -0.05 min  
Lab File: BF116373.D  
Acq: 18 Aug 2019 2:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 5.8   | 8.8   |
| 122     | 11.3  | 9.0   | 13.4  |





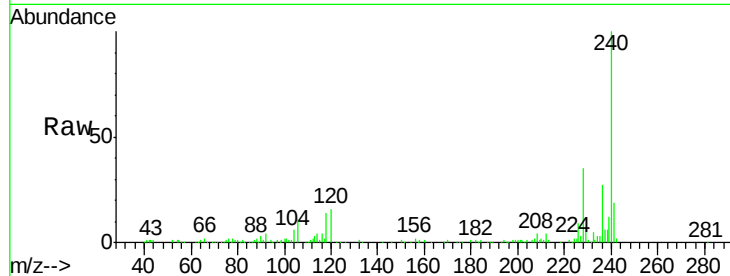
#81  
Benzo(a)anthracene  
Concen: 2.543 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. -0.04 min  
Lab File: BF116373.D  
Acq: 18 Aug 2019 2:45

Instrument :  
BNA\_F  
ClientSampled :  
B-2(1.5-2.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.4  | 22.7  | 34.1  |
| 229     | 21.2  | 16.2  | 24.4  |

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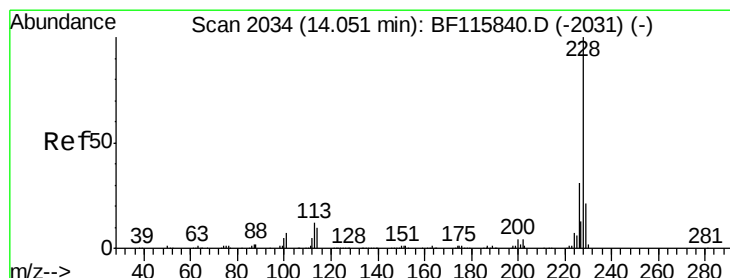
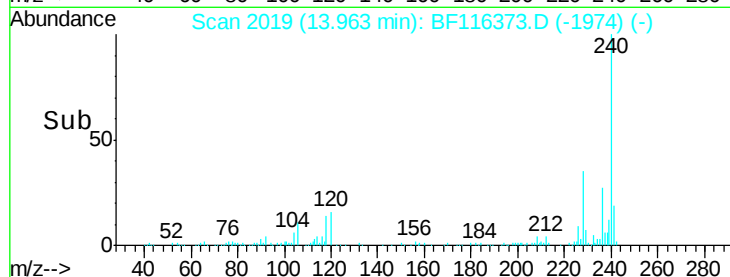
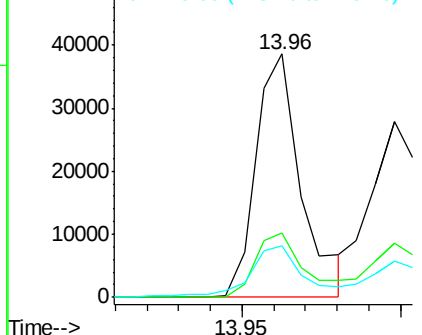


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83  
Chrysene  
Concen: 2.294 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. -0.04 min  
Lab File: BF116373.D  
Acq: 18 Aug 2019 2:45

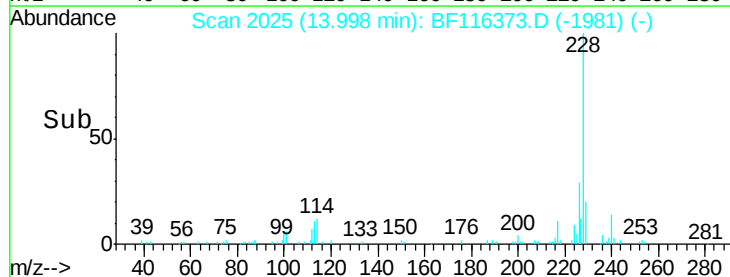
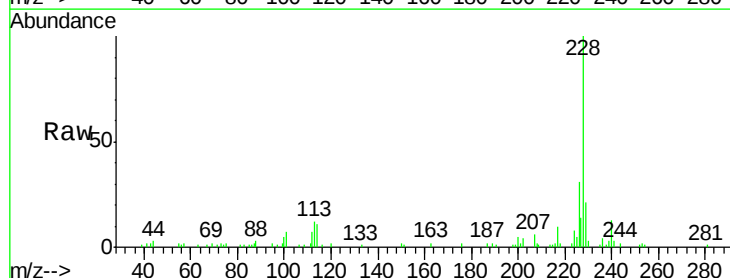
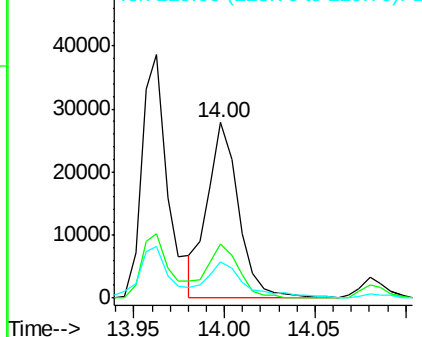
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 25.5  | 38.3  |
| 229     | 20.7  | 16.6  | 24.8  |

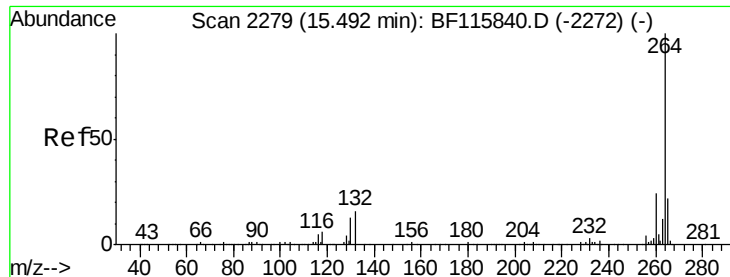
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





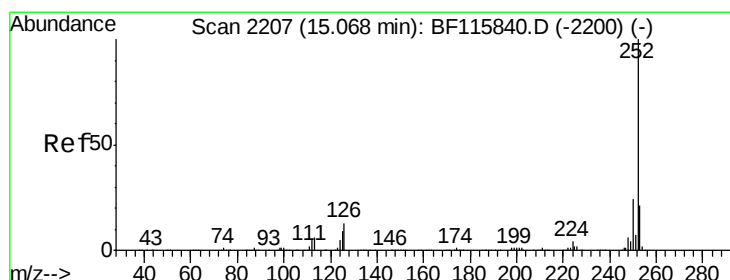
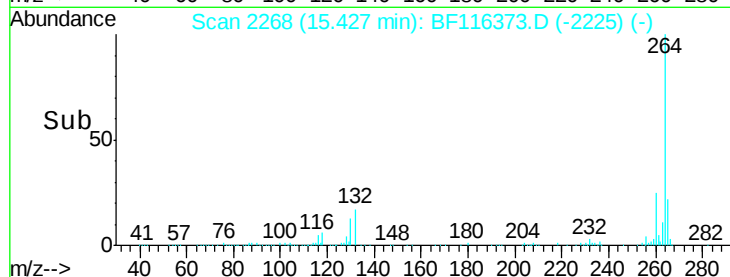
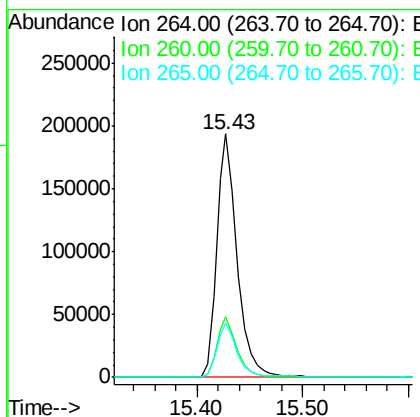
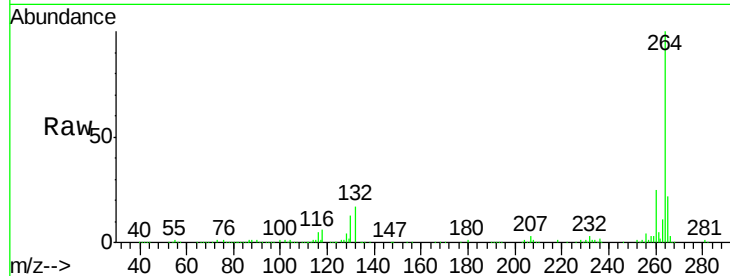
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.43 min Scan# 2268  
Delta R.T. -0.05 min  
Lab File: BF116373.D  
Acq: 18 Aug 2019 2:45

Instrument :  
BNA\_F  
ClientSampled :  
B-2(1.5-2.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.9  | 19.7  | 29.5  |
| 265     | 22.2  | 17.4  | 26.0  |

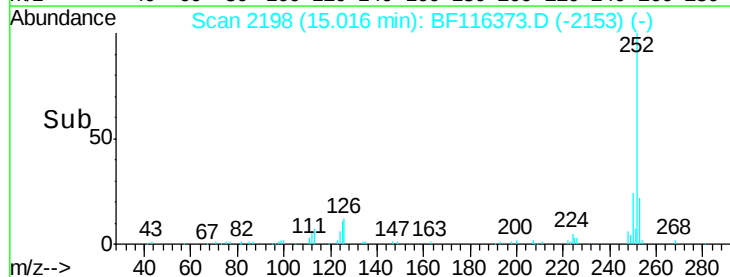
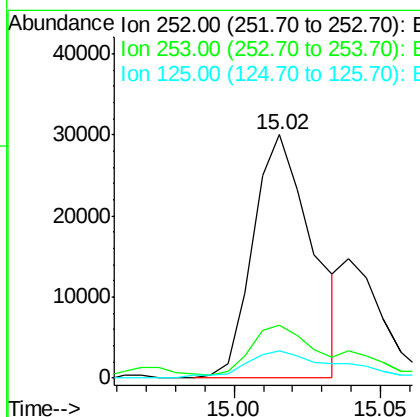
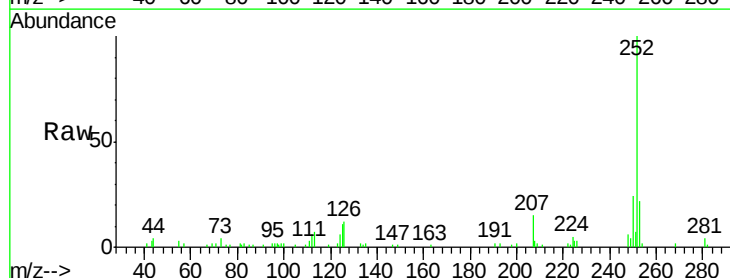
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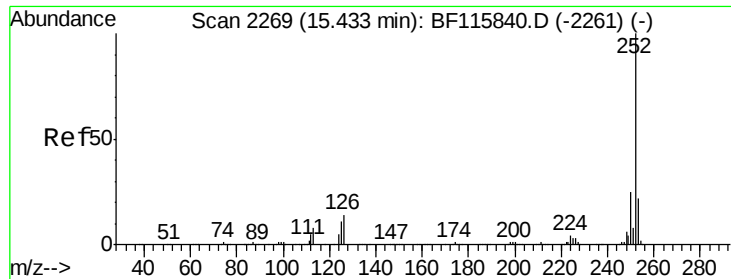
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#88  
Benzo(b)fluoranthene  
Concen: 2.775 ng m  
RT: 15.02 min Scan# 2198  
Delta R.T. -0.04 min  
Lab File: BF116373.D  
Acq: 18 Aug 2019 2:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.8  | 26.8  |
| 125     | 11.0  | 8.4   | 12.6  |





#90  
Benzo(a)pyrene  
Concen: 2.147 ng  
RT: 15.37 min Scan# 2259  
Delta R.T. -0.04 min  
Lab File: BF116373.D  
Acq: 18 Aug 2019 2:45

Instrument :  
BNA\_F  
ClientSampleId :  
B-2(1.5-2.5)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 23.9  | 18.0       | 27.0  |
| 125     | 12.4  | 8.9        | 13.3  |

Manual Integrations  
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