

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011719\  
 Data File : BF112077.D  
 Acq On : 17 Jan 2019 9:32  
 Operator : JU/SJ  
 Sample : K1147-04  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-2

Manual Integrations  
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 1/17/2019 2:55:37 PM

Quant Time: Jan 17 10:29:31 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 16 18:22:05 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.86  | 152  | 280812   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.14  | 136  | 1091361  | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.90  | 164  | 532379   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.39 | 188  | 964695   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.03 | 240  | 736628   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.50 | 264  | 695320   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.50  | 112  | 1527478  | 98.73  | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 1986533  | 102.63 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 1215686  | 76.96  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.69 | 330  | 604797   | 105.31 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.22  | 172  | 2479501  | 68.28  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.97 | 244  | 2390741  | 69.04  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.52  | 94   | 44165    | 2.088  | ng    | 83       |
| 50) Dimethylphthalate       | 9.61  | 163  | 655573   | 16.885 | ng    | # 97     |
| 75) Fluoranthene            | 12.60 | 202  | 234782   | 4.580  | ng    | 96       |
| 78) Pyrene                  | 12.83 | 202  | 246228   | 5.066  | ng    | 96       |
| 81) Benzo(a)anthracene      | 14.02 | 228  | 108612   | 2.572  | ng    | 96       |
| 83) Chrysene                | 14.05 | 228  | 142022m  | 3.554  | ng    |          |
| 86) Indeno(1,2,3-cd)pyrene  | 16.97 | 276  | 91729    | 2.488  | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.07 | 252  | 212942m  | 5.395  | ng    |          |
| 90) Benzo(a)pyrene          | 15.43 | 252  | 109241   | 3.018  | ng    | # 97     |
| 92) Benzo(g,h,i)perylene    | 17.42 | 276  | 105179   | 3.321  | ng    | 99       |

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

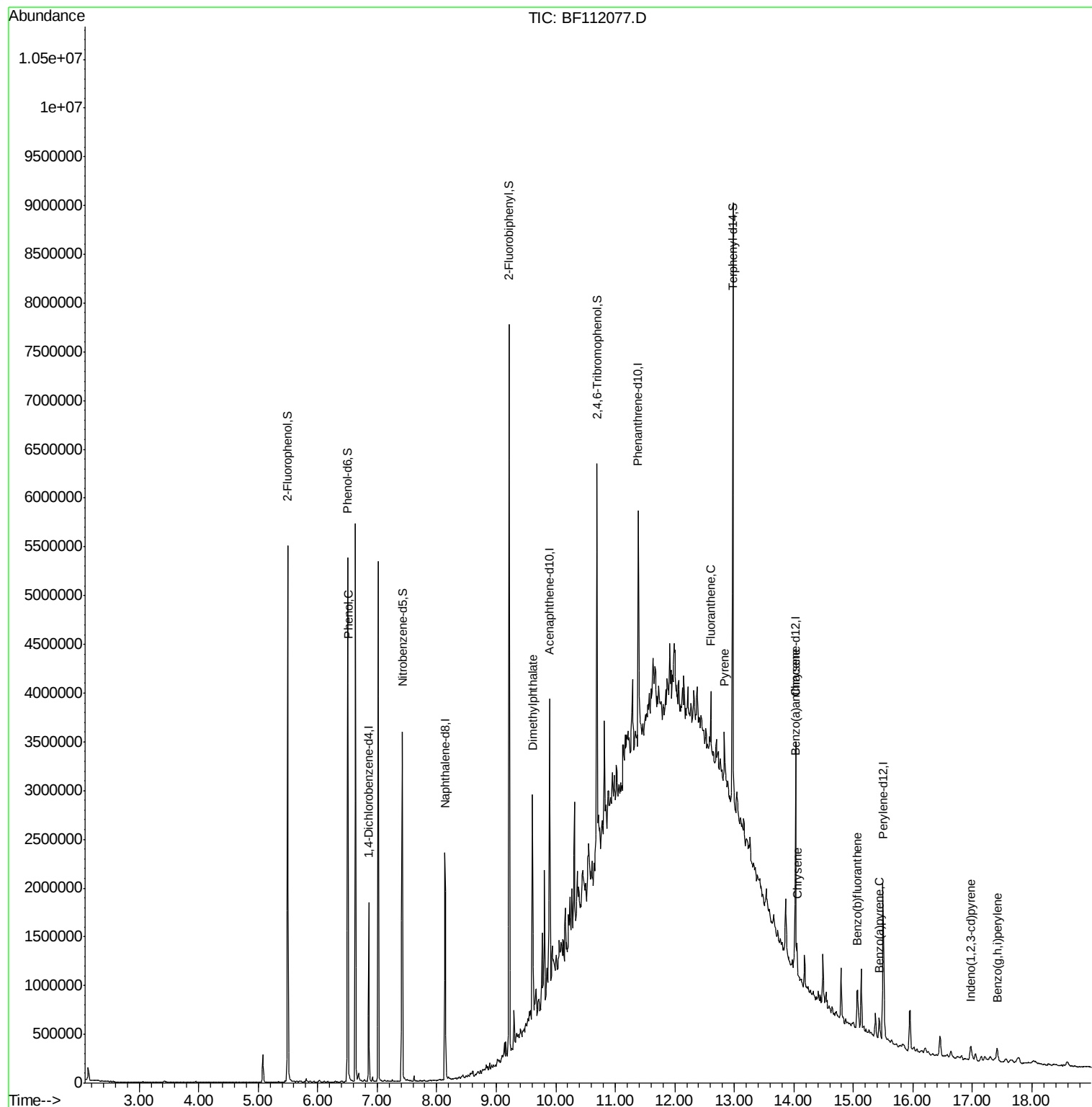
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011719\  
Data File : BF112077.D  
Acq On : 17 Jan 2019 9:32  
Operator : JU/SJ  
Sample : K1147-04  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

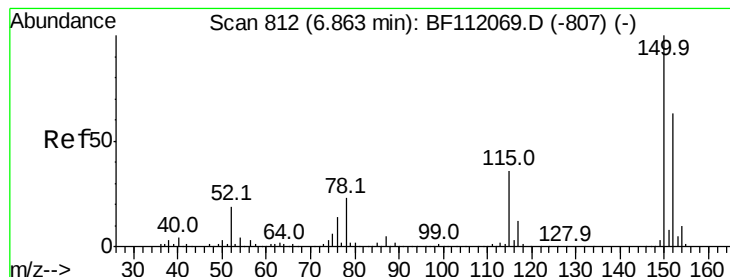
Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

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Quant Time: Jan 17 10:29:31 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 16 18:22:05 2019  
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#1

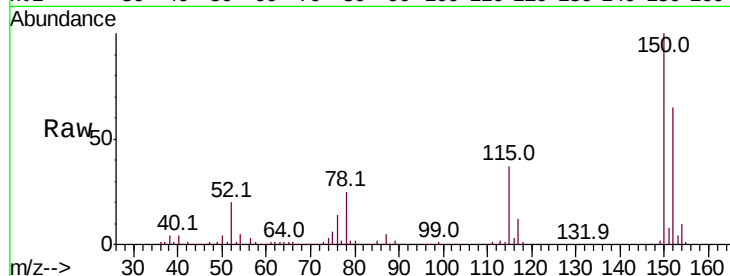
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 811  
Delta R.T. -0.01 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

Instrument :  
BNA\_F  
ClientSampled :  
TP-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.8 | 127.4 | 191.0 |
| 115     | 57.5  | 45.5  | 68.3  |

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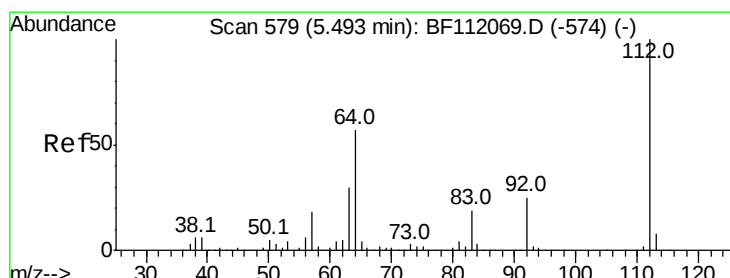
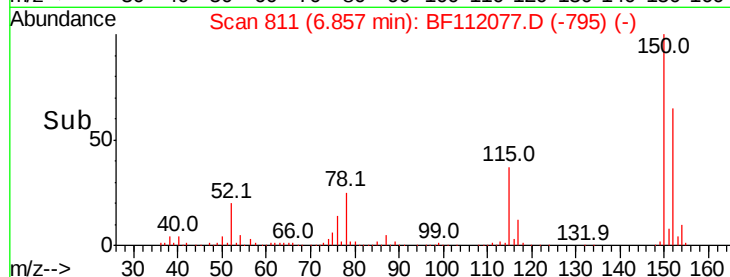
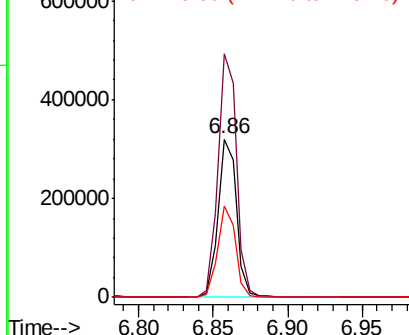


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

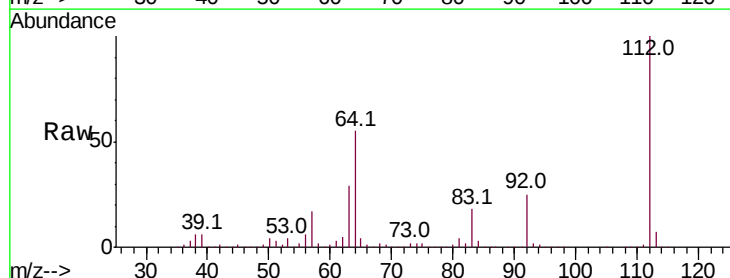
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 98.729 ng  
RT: 5.50 min Scan# 580  
Delta R.T. 0.01 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.5  | 45.7  | 68.5  |
| 63      | 28.7  | 23.6  | 35.4  |

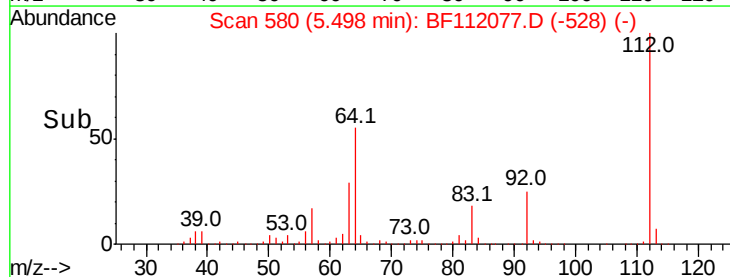
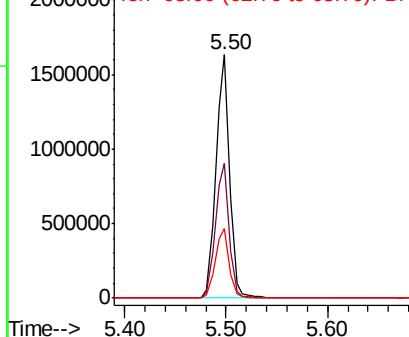


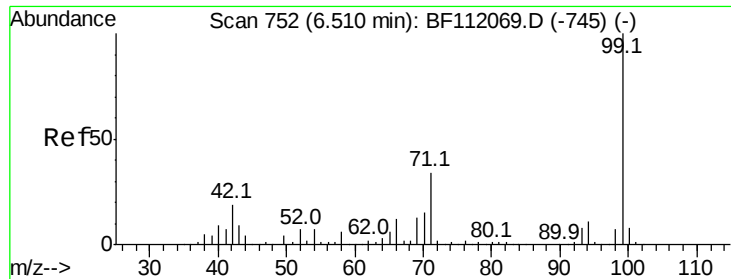
Abundance

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: 102.626 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF112077.D

Acq: 17 Jan 2019 9:32

Instrument :

BNA\_F

ClientSampled :

TP-2

Tot Ion: 99 Resp: 198653

Ion Ratio Lower Upper

99 100

42 19.0 15.1 22.7

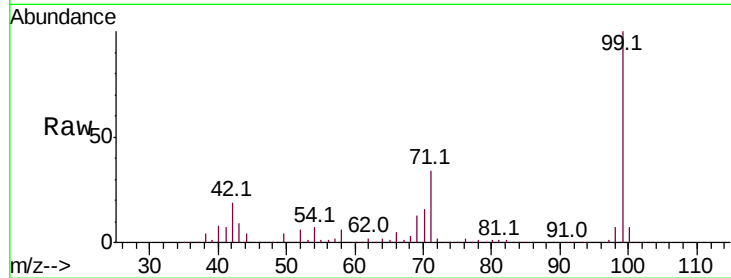
71 34.3 26.9 40.3

Manual Integrations

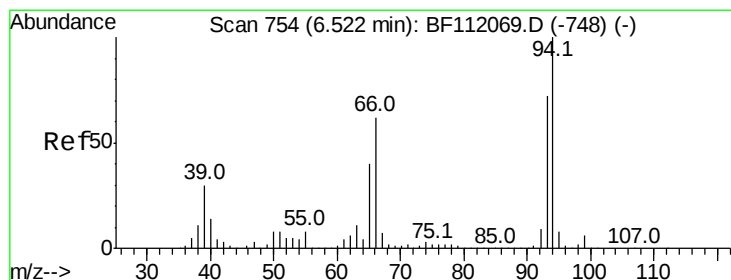
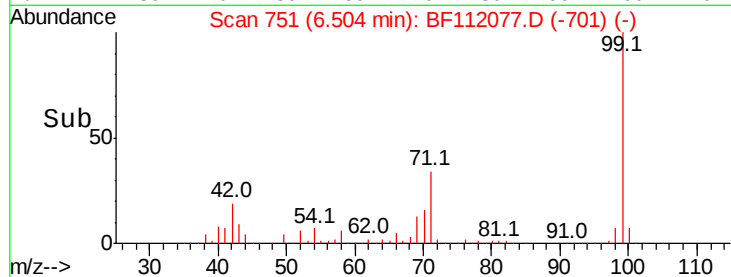
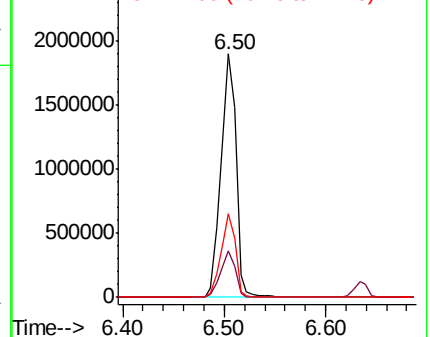
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.088 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF112077.D

Acq: 17 Jan 2019 9:32

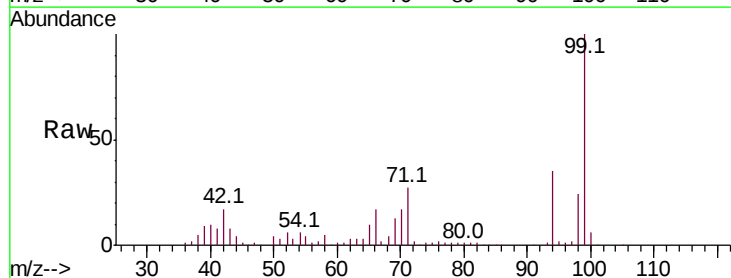
Tgt Ion: 94 Resp: 44165

Ion Ratio Lower Upper

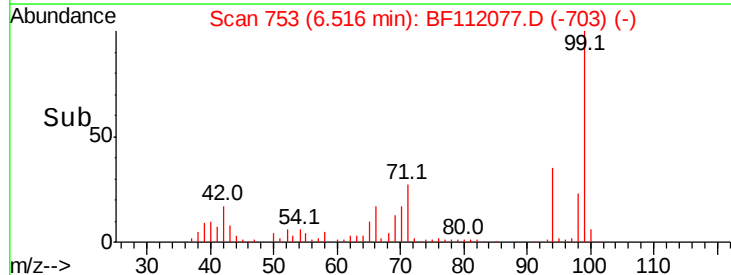
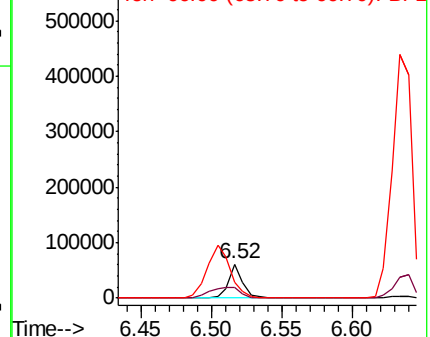
94 100

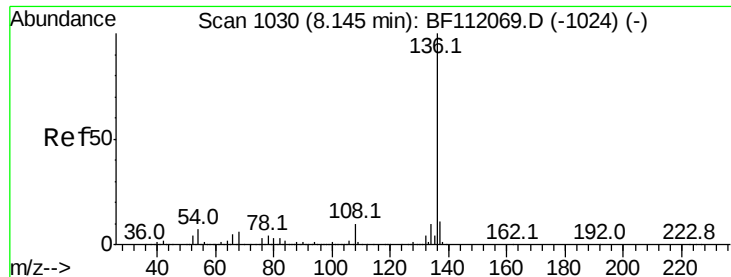
65 30.1 20.3 60.3

66 48.4 42.4 82.4



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.01 min

Lab File: BF112077.D

Acq: 17 Jan 2019 9:32

Instrument :

BNA\_F

ClientSampleId :

TP-2

Tot Ion:136 Resp: 1091361

Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

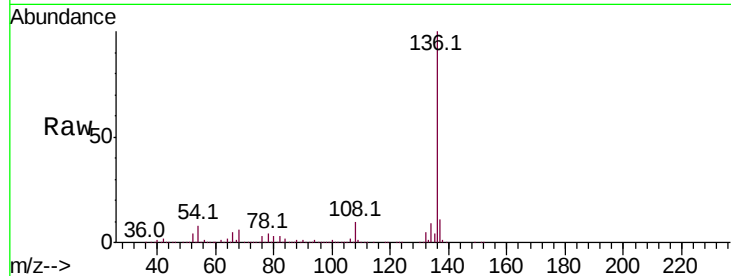
54 7.8 5.9 8.9

68 6.5 5.1 7.7

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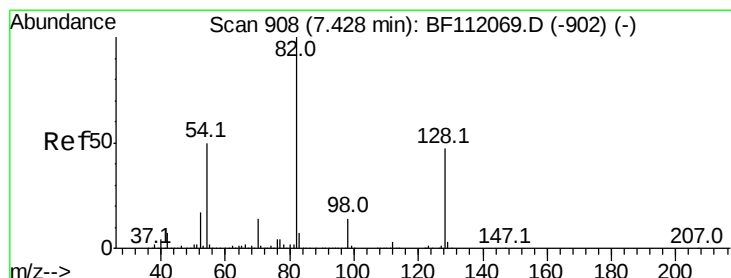
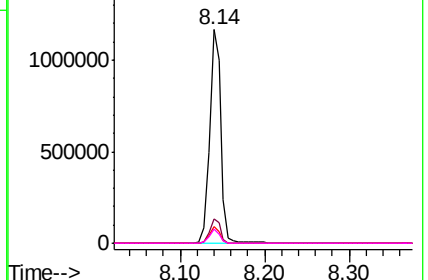
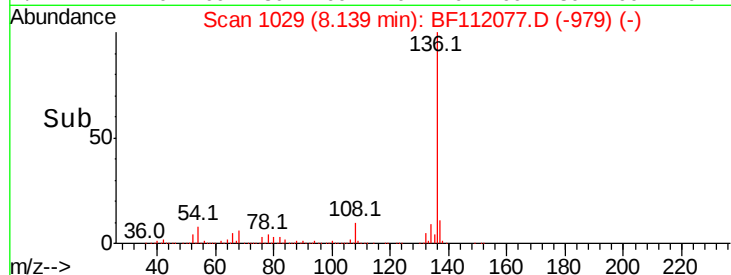


Abundance Ion 136.00 (135.70 to 136.70): E

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: 76.959 ng

RT: 7.42 min Scan# 907

Delta R.T. -0.01 min

Lab File: BF112077.D

Acq: 17 Jan 2019 9:32

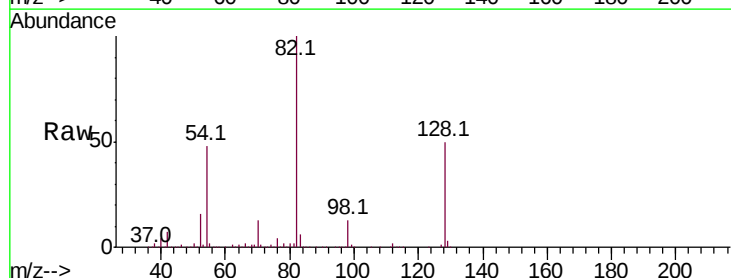
Tgt Ion: 82 Resp: 1215686

Ion Ratio Lower Upper

82 100

128 49.6 37.8 56.8

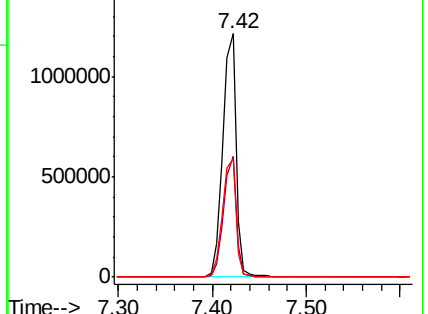
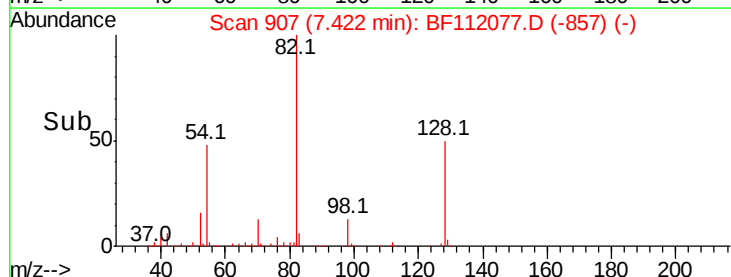
54 48.4 39.7 59.5

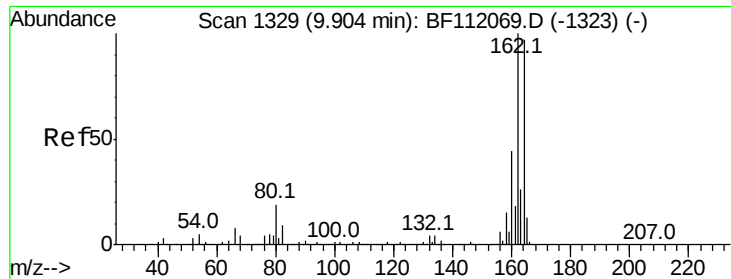


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





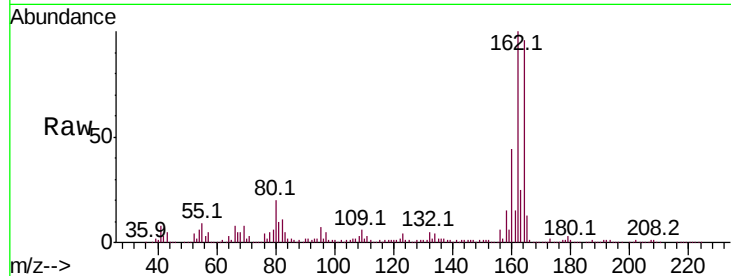
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. -0.01 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

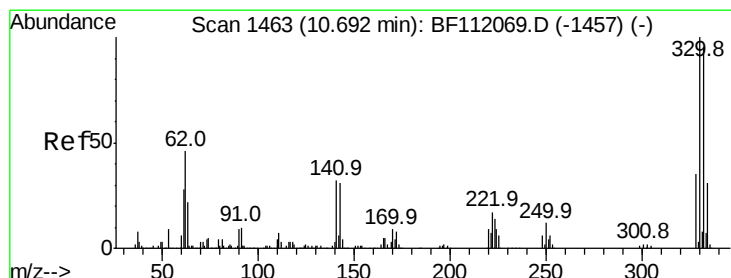
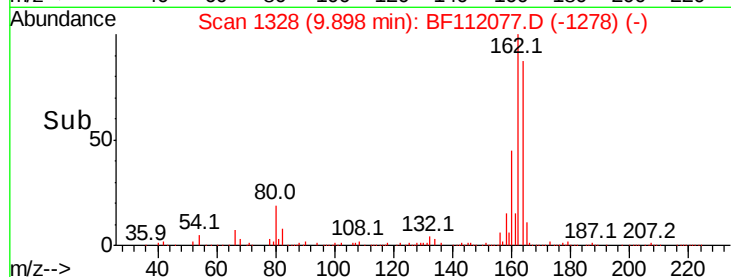
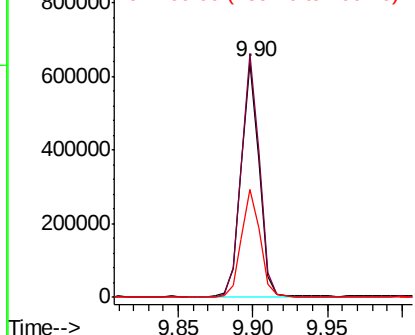
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.7 | 82.2  | 123.4 |
| 160     | 46.0  | 36.2  | 54.4  |

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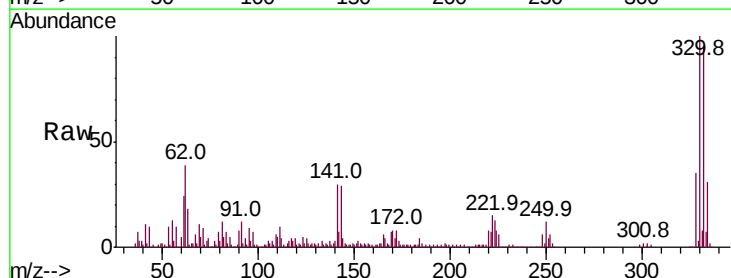


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

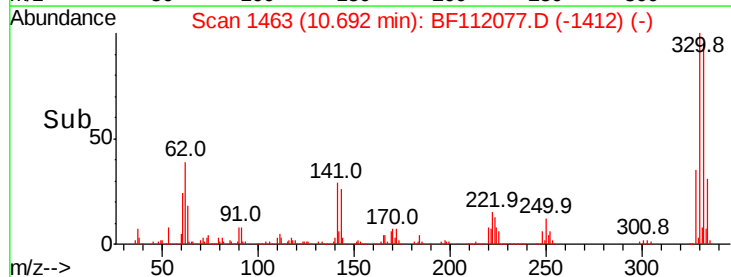
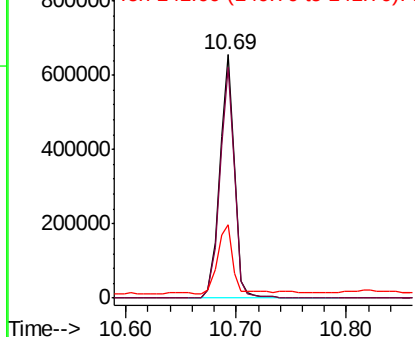


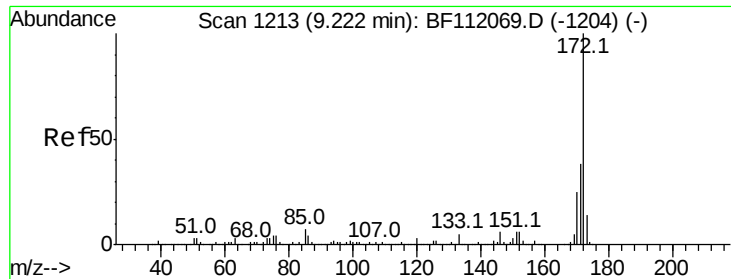
#42  
2,4,6-Tribromophenol  
Concen: 105.307 ng  
RT: 10.69 min Scan# 1463  
Delta R.T. 0.00 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.5  | 76.6  | 114.8 |
| 141     | 28.2  | 24.3  | 36.5  |



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





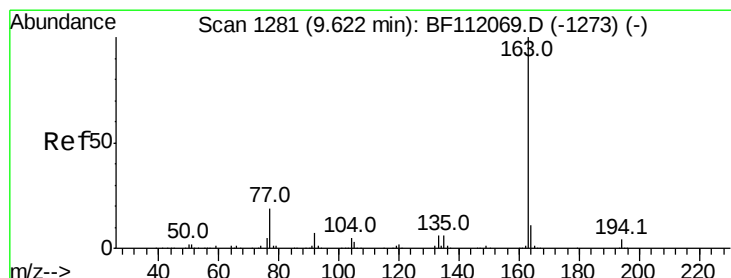
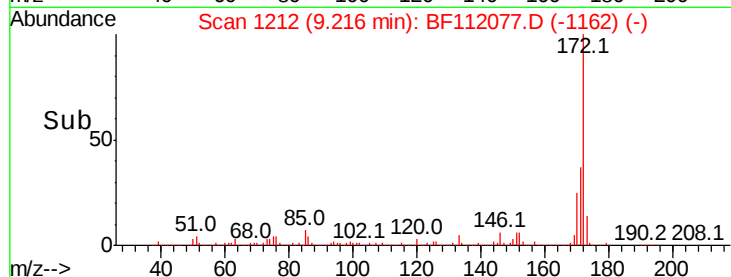
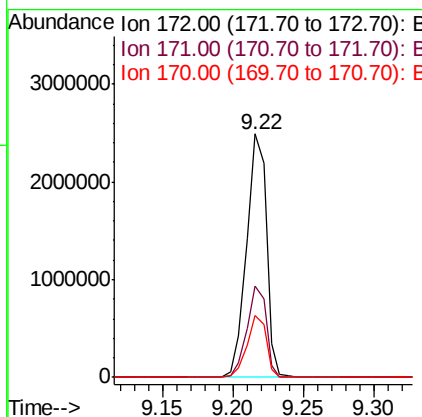
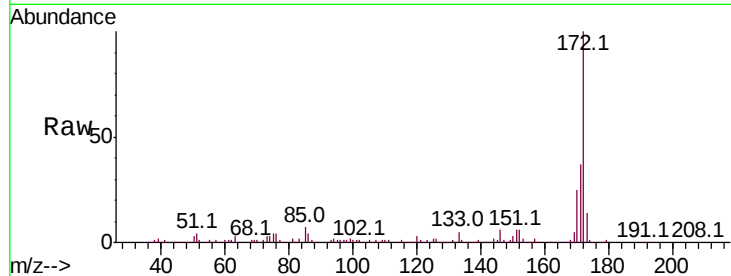
#45  
2-Fluorobiphenyl  
Concen: 68.283 ng  
RT: 9.22 min Scan# 1212  
Delta R.T. -0.01 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 30.5  | 45.7  |
| 170     | 25.2  | 20.2  | 30.4  |

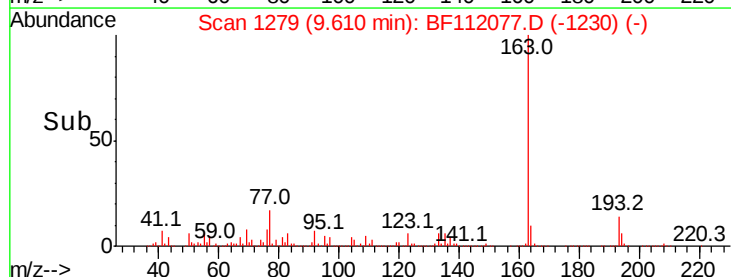
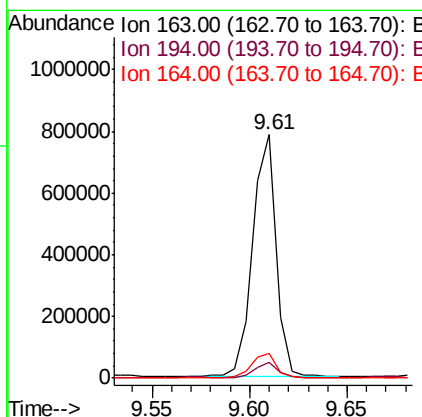
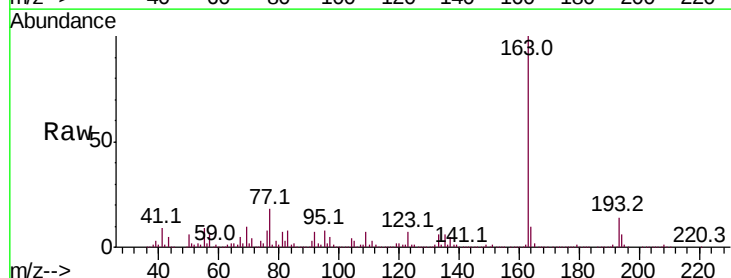
Manual Integrations  
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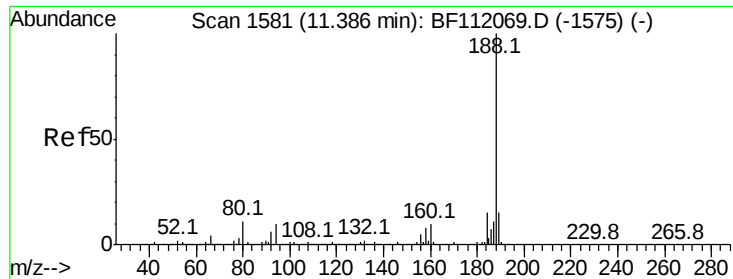
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#50  
Dimethylphthalate  
Concen: 16.885 ng  
RT: 9.61 min Scan# 1279  
Delta R.T. -0.01 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 6.3   | 3.3   | 4.9#  |
| 164     | 10.0  | 8.5   | 12.7  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.39 min Scan# 1581

Delta R.T. 0.00 min

Lab File: BF112077.D

Acq: 17 Jan 2019 9:32

Instrument :

BNA\_F

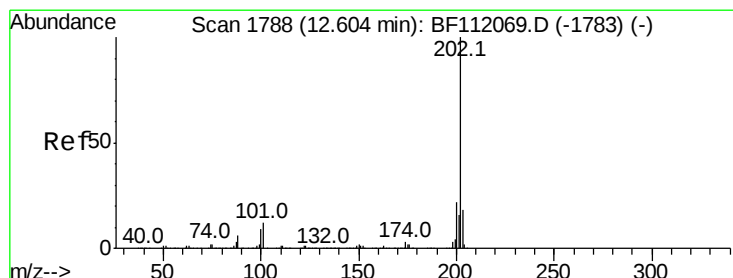
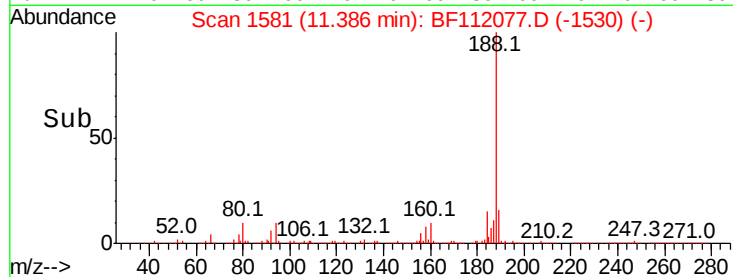
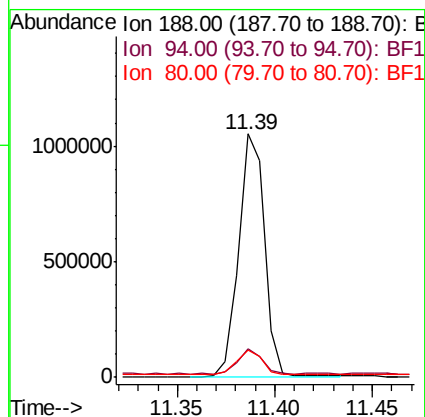
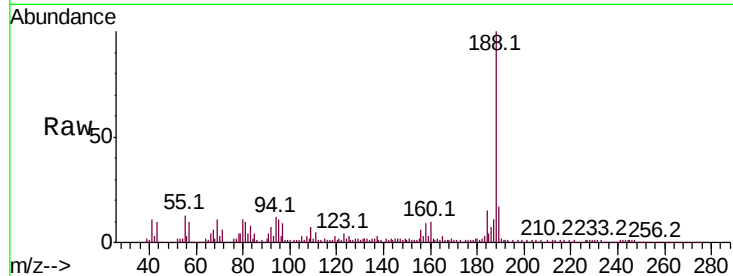
ClientSampled :

TP-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 964695 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 11.6  | 8.2   | 12.2   |
| 80        | 11.4  | 8.9   | 13.3   |

Manual Integrations  
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#75

Fluoranthene

Concen: 4.580 ng

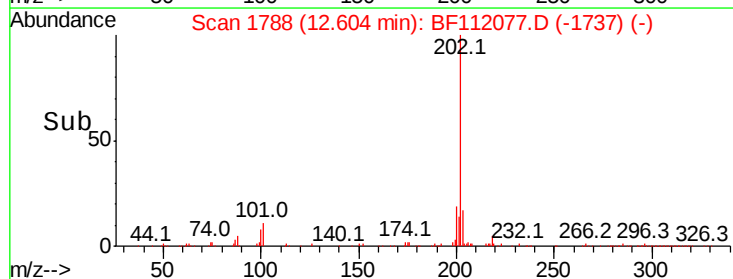
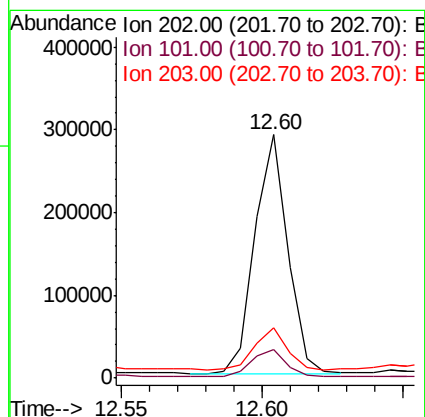
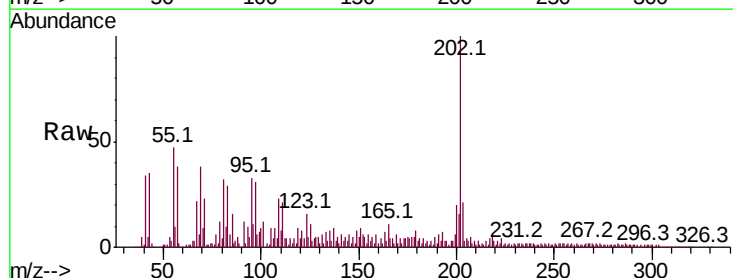
RT: 12.60 min Scan# 1788

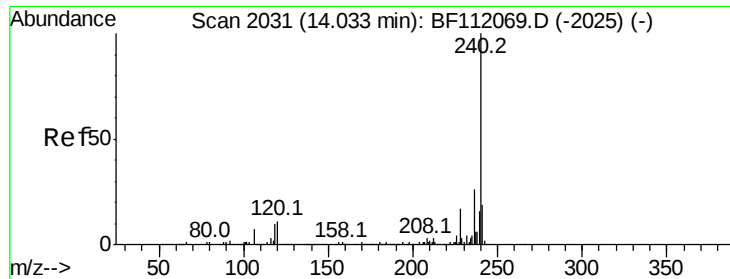
Delta R.T. 0.00 min

Lab File: BF112077.D

Acq: 17 Jan 2019 9:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 234782 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.5  | 0.0   | 31.8   |
| 203       | 20.9  | 0.0   | 38.4   |





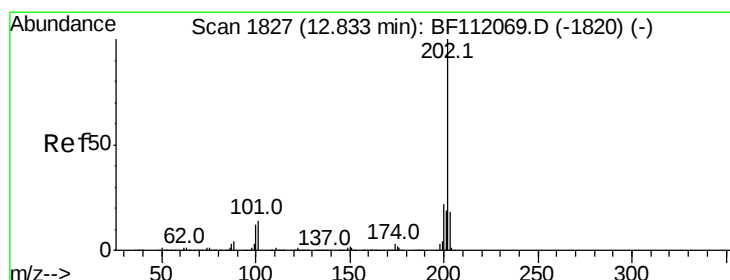
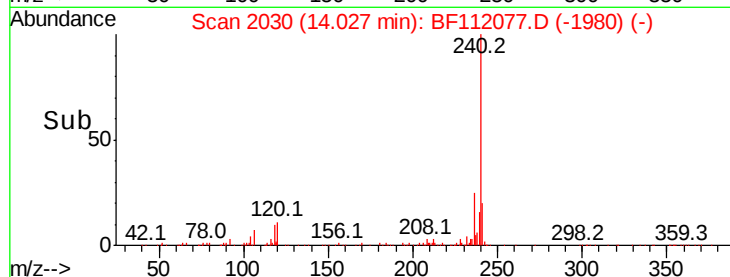
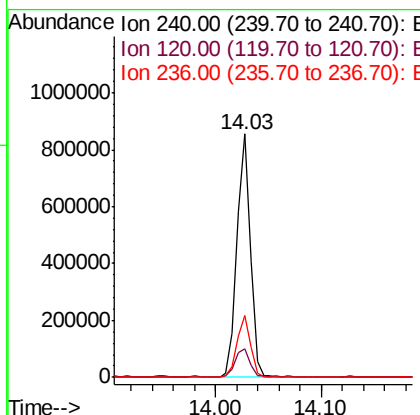
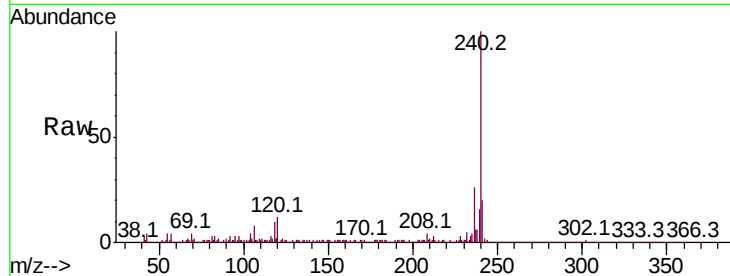
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.03 min Scan# 2030  
Delta R.T. -0.01 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

Instrument :  
BNA\_F  
ClientSampled :  
TP-2

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 240     | 100   |      |       |       |
| 120     | 12.0  | 9.0  | 13.6  |       |
| 236     | 25.5  | 20.7 | 31.1  |       |

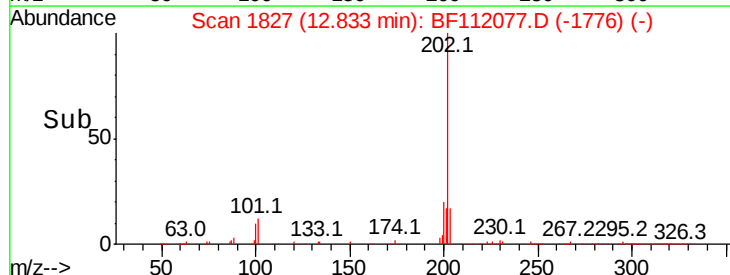
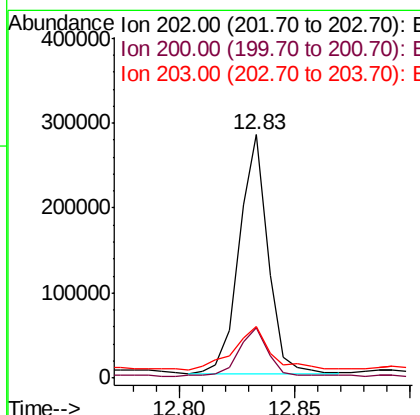
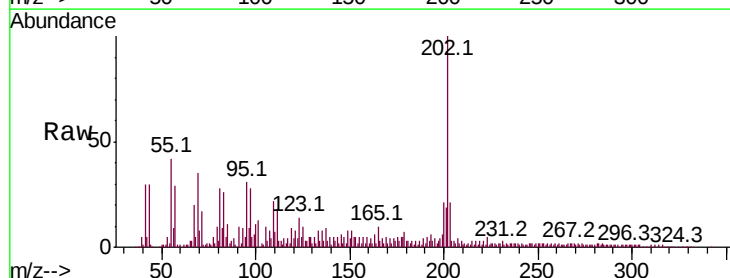
Manual Integrations  
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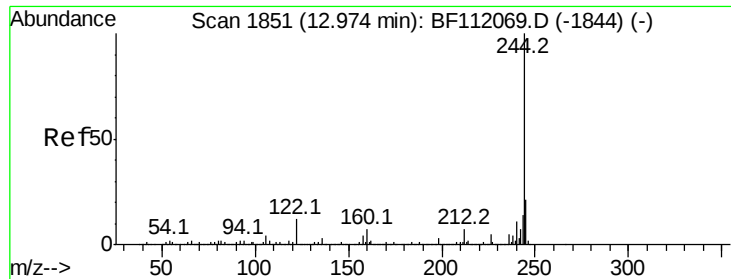
Sohil  
1/17/2019 2:55:37 PM



#78  
Pyrene  
Concen: 5.066 ng  
RT: 12.83 min Scan# 1827  
Delta R.T. 0.00 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 200     | 20.9  | 17.7 | 26.5  |       |
| 203     | 21.2  | 14.6 | 22.0  |       |





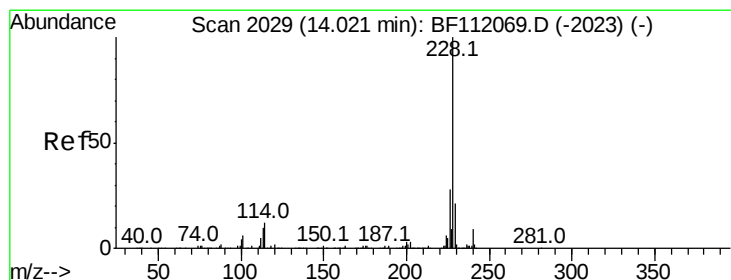
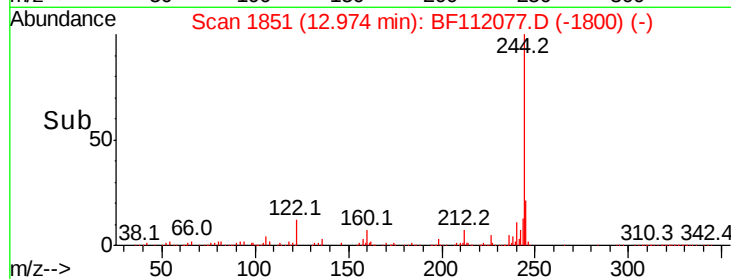
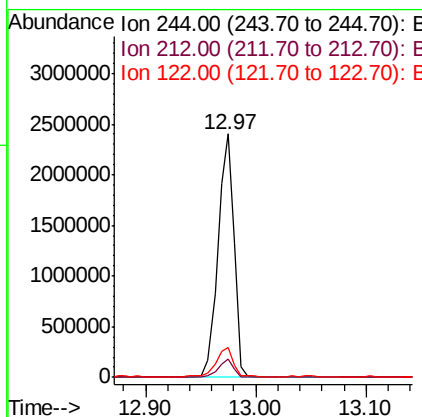
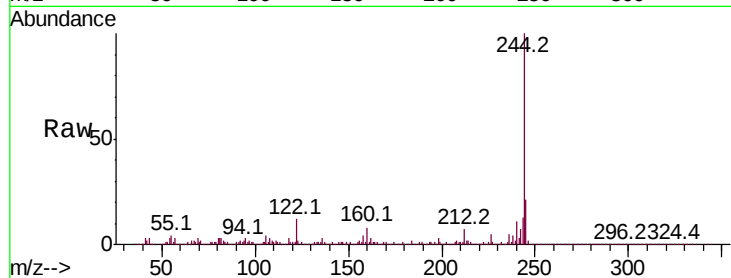
#79  
 Terphenyl-d14  
 Concen: 69.044 ng  
 RT: 12.97 min Scan# 1851  
 Delta R.T. 0.00 min  
 Lab File: BF112077.D  
 Acq: 17 Jan 2019 9:32

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.3   | 5.9   | 8.9   |
| 122     | 12.1  | 9.8   | 14.6  |

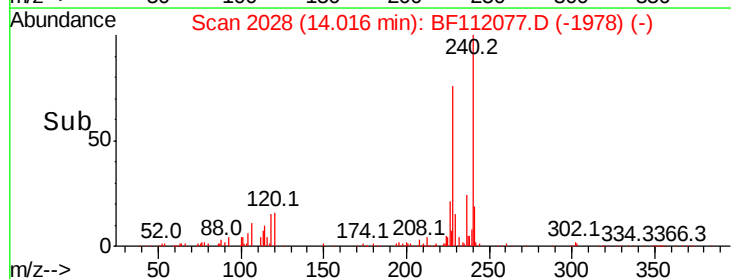
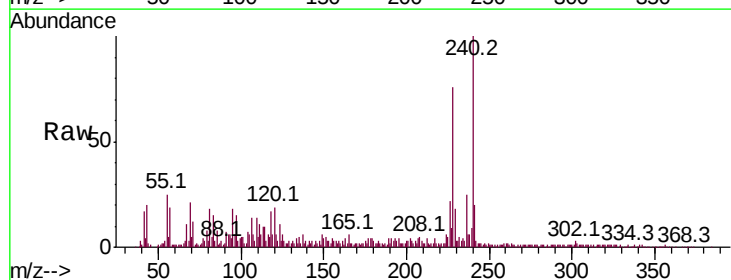
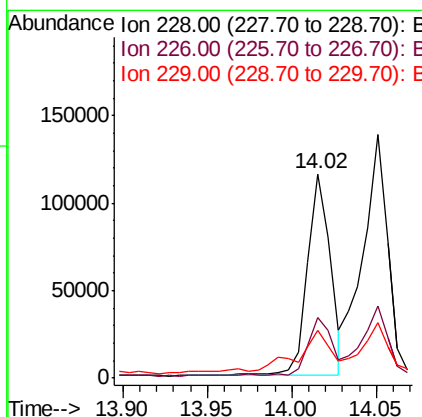
Manual Integrations  
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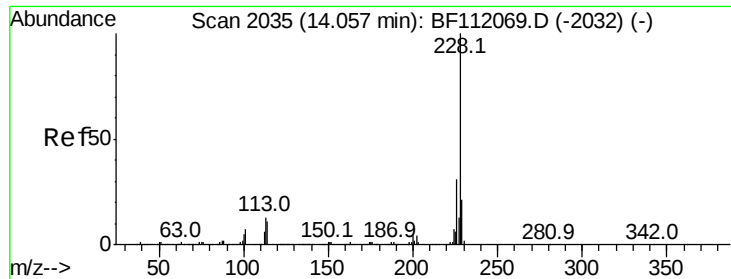
Sohil  
 1/17/2019 2:55:37 PM



#81  
 Benzo(a)anthracene  
 Concen: 2.572 ng  
 RT: 14.02 min Scan# 2028  
 Delta R.T. -0.01 min  
 Lab File: BF112077.D  
 Acq: 17 Jan 2019 9:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.5  | 22.6  | 34.0  |
| 229     | 23.7  | 16.5  | 24.7  |





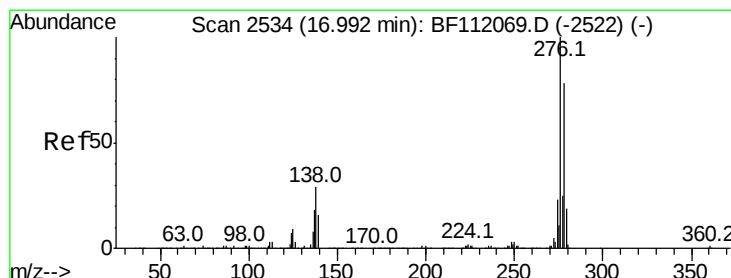
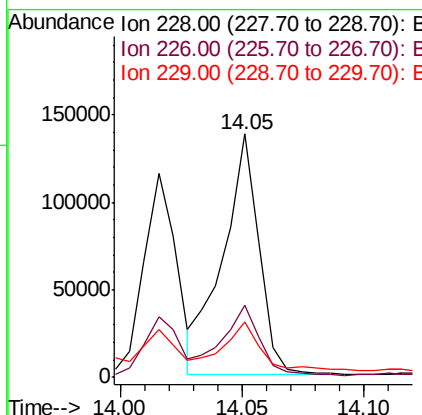
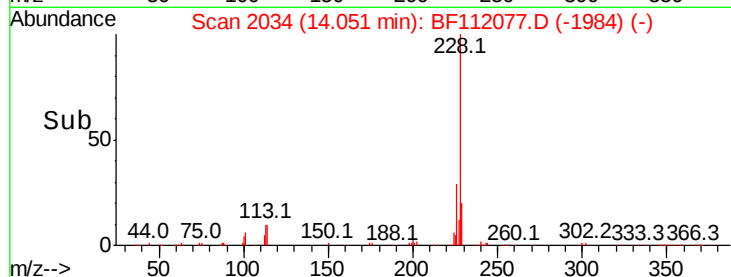
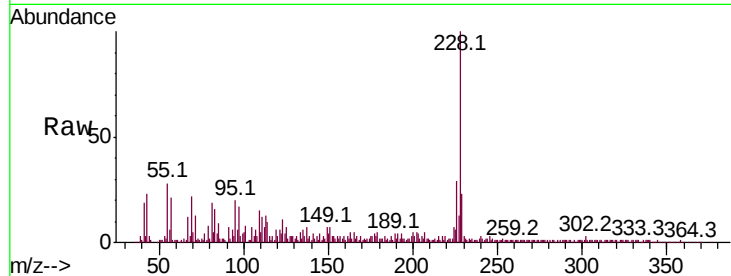
#83  
Chrysene  
Concen: 3.554 ng/ml  
RT: 14.05 min Scan# 2034  
Delta R.T. -0.01 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

Instrument :  
BNA\_F  
ClientSampled :  
TP-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 142022 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.5  | 25.0  | 37.6   |
| 229       | 23.0  | 16.6  | 24.8   |

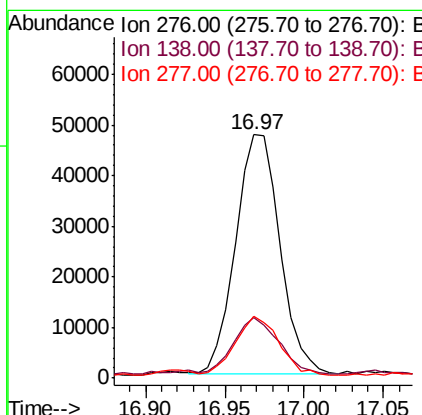
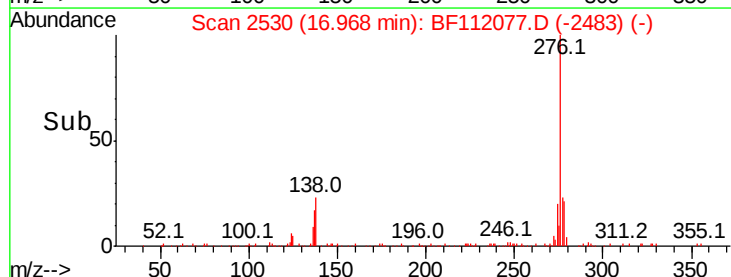
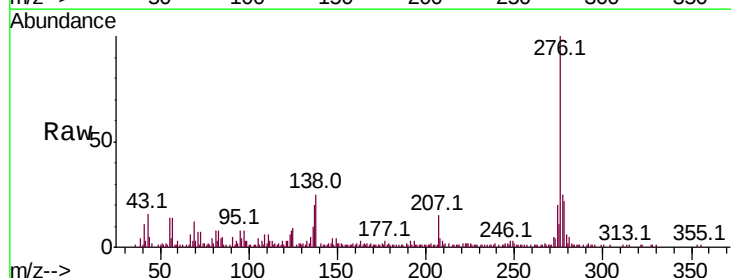
Manual Integrations  
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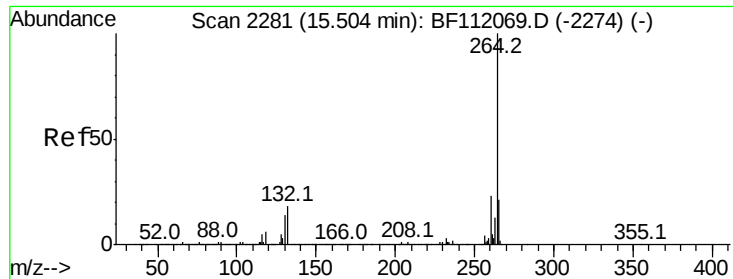
Sohil  
1/17/2019 2:55:37 PM



#86  
Indeno(1,2,3-cd)pyrene  
Concen: 2.488 ng  
RT: 16.97 min Scan# 2530  
Delta R.T. -0.02 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 91729 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 25.1  | 22.6  | 34.0  |
| 277       | 24.4  | 20.3  | 30.5  |





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BF112077.D

Acq: 17 Jan 2019 9:32

Instrument :

BNA\_F

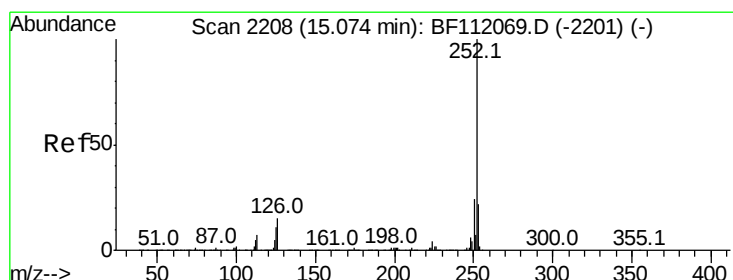
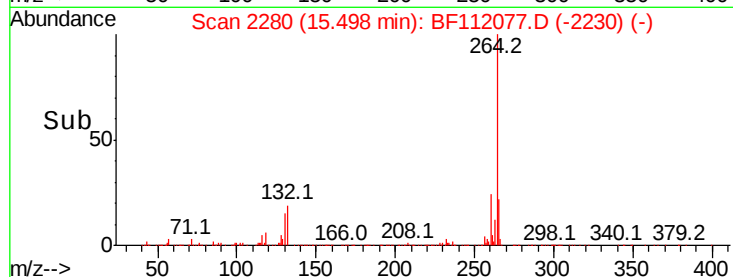
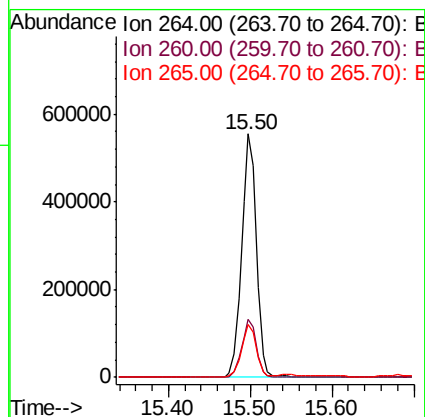
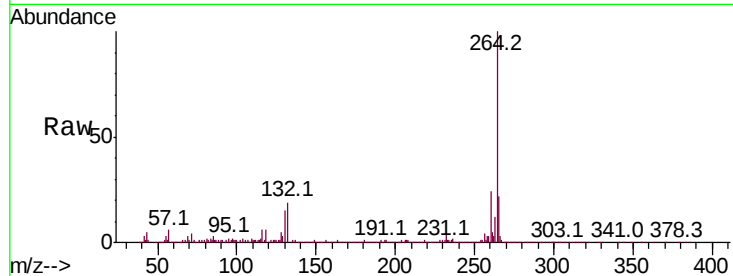
ClientSampleId :

TP-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 695320 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.8  | 18.2  | 27.2   |
| 265       | 21.9  | 17.0  | 25.4   |

Manual Integrations  
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#88

Benzo(b)fluoranthene

Concen: 5.395 ng m

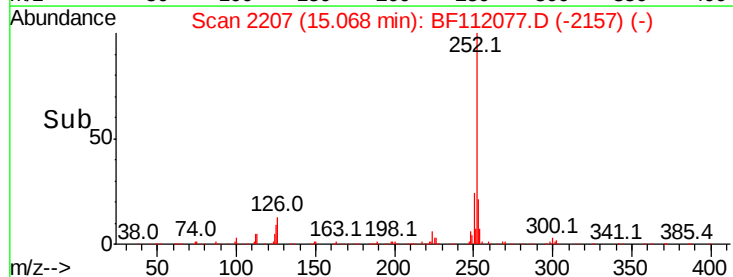
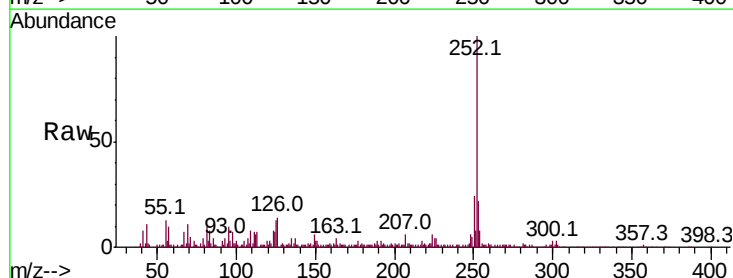
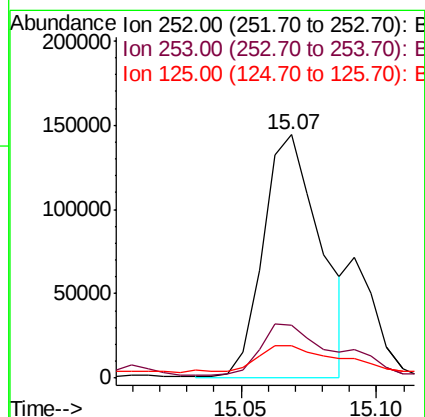
RT: 15.07 min Scan# 2207

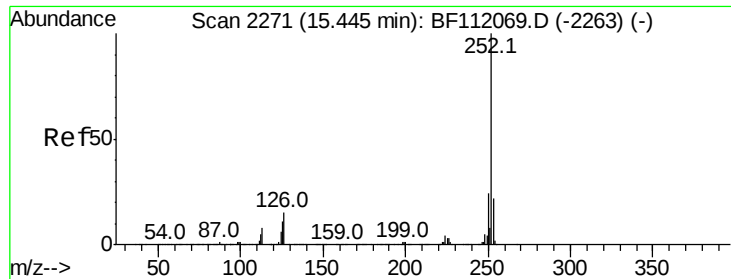
Delta R.T. -0.01 min

Lab File: BF112077.D

Acq: 17 Jan 2019 9:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 212942 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.9  | 18.0  | 27.0   |
| 125       | 13.2  | 8.7   | 13.1#  |





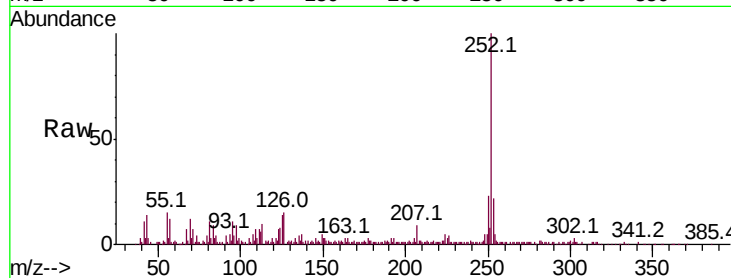
#90  
Benzo(a)pyrene  
Concen: 3.018 ng  
RT: 15.43 min Scan# 2269  
Delta R.T. -0.01 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

Instrument :  
BNA\_F  
ClientSampled :  
TP-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 17.5  | 26.3  |
| 125     | 14.1  | 9.0   | 13.4  |

Manual Integrations  
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1/17/2019 2:55:37 PM

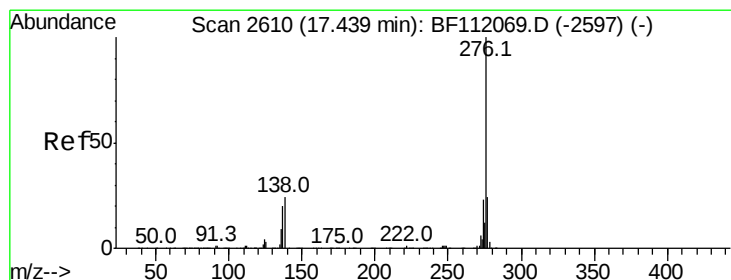
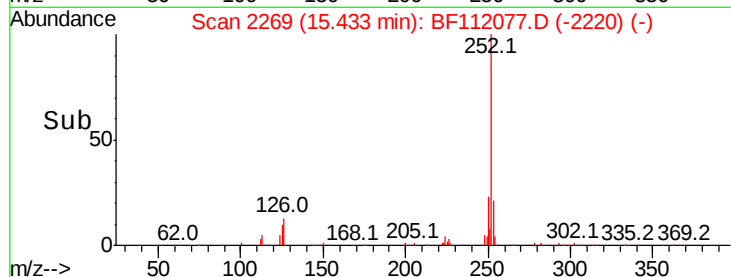
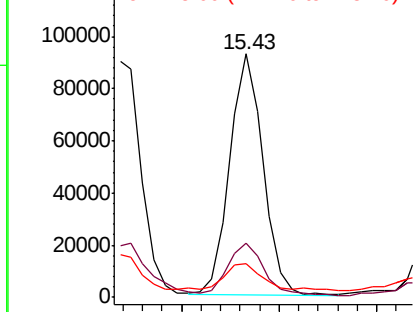


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92  
Benzo(g,h,i)perylene  
Concen: 3.321 ng  
RT: 17.42 min Scan# 2606  
Delta R.T. -0.02 min  
Lab File: BF112077.D  
Acq: 17 Jan 2019 9:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.0  | 19.4  | 29.0  |
| 138     | 24.7  | 19.1  | 28.7  |

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

