

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120717\  
 Data File : BF101212.D  
 Acq On : 7 Dec 2017 18:25  
 Operator : SJ/JU  
 Sample : I6656-04  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BART-3-E(0-1)

Manual Integrations  
 APPROVED

Sohil  
 12/8/2017 11:12:16 AM

Quant Time: Dec 07 19:37:52 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 04 13:07:49 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.84  | 152  | 48607    | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8             | 8.12  | 136  | 173332   | 20.00  | ng    | -0.01     |
| 38) Acenaphthene-d10           | 9.88  | 164  | 68193    | 20.00  | ng    | 0.00      |
| 63) Phenanthrene-d10           | 11.37 | 188  | 120046   | 20.00  | ng    | 0.00      |
| 75) Chrysene-d12               | 14.02 | 240  | 94422    | 20.00  | ng    | 0.00      |
| 86) Perylene-d12               | 15.50 | 264  | 69486    | 20.00  | ng    | 0.01      |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.46  | 112  | 266263   | 90.52  | ng    | 0.00      |
| 7) Phenol-d6                   | 6.47  | 99   | 319307   | 89.41  | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 192593   | 66.28  | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 10.67 | 330  | 56355    | 68.79  | ng    | -0.01     |
| 44) 2-Fluorobiphenyl           | 9.20  | 172  | 383124   | 76.87  | ng    | -0.01     |
| 78) Terphenyl-d14              | 12.96 | 244  | 320718   | 74.29  | ng    | 0.00      |
| Target Compounds               |       |      |          |        |       |           |
| 10) Phenol                     | 6.49  | 94   | 8586     | 2.162  | ng    | Qvalue 91 |
| 49) Dimethylphthalate          | 9.59  | 163  | 33502    | 6.092  | ng    | # 99      |
| 74) Fluoranthene               | 12.59 | 202  | 100565   | 13.723 | ng    | 95        |
| 77) Pyrene                     | 12.82 | 202  | 83133    | 12.759 | ng    | 95        |
| 80) Benzo(a)anthracene         | 14.01 | 228  | 31952    | 5.360  | ng    | 98        |
| 82) Chrysene                   | 14.04 | 228  | 35367    | 6.388  | ng    | 97        |
| 83) Bis(2-ethylhexyl)phthalate | 13.99 | 149  | 11180    | 2.730  | ng    | # 95      |
| 87) Benzo(b)fluoranthene       | 15.07 | 252  | 35222m   | 8.463  | ng    |           |
| 88) Benzo(k)fluoranthene       | 15.10 | 252  | 11864m   | 2.893  | ng    |           |
| 89) Benzo(a)pyrene             | 15.44 | 252  | 22071    | 5.833  | ng    | # 86      |
| 91) Benzo(g,h,i)perylene       | 17.46 | 276  | 15928    | 5.067  | ng    | # 91      |

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

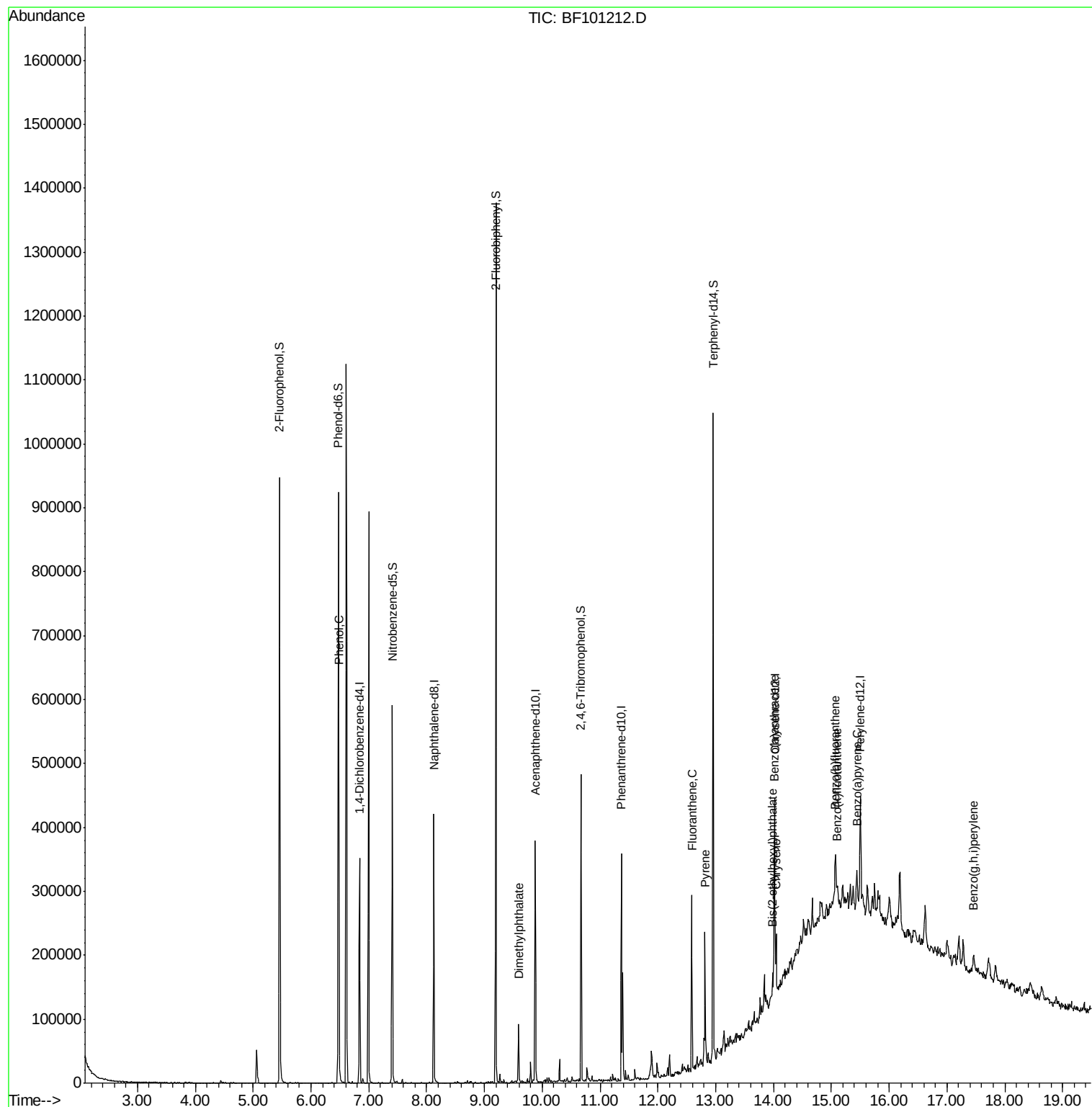
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120717\  
Data File : BF101212.D  
Acq On : 7 Dec 2017 18:25  
Operator : SJ/JU  
Sample : I6656-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

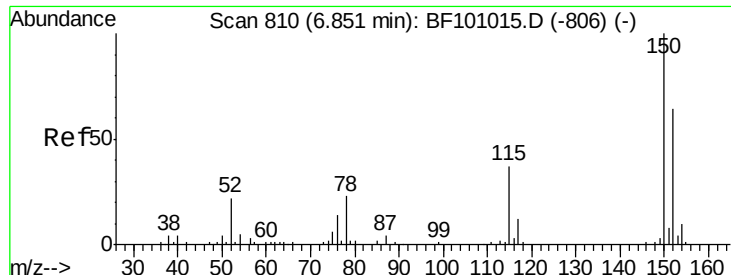
Instrument :  
BNA\_F  
ClientSampleId :  
BART-3-E(0-1)

Manual Integrations  
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Quant Time: Dec 07 19:37:52 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 04 13:07:49 2017  
Response via : Initial Calibration





#1

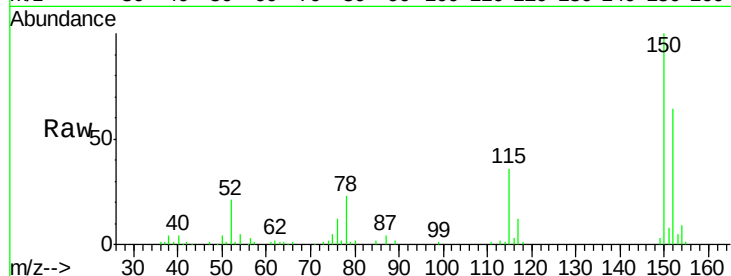
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.84 min Scan# 808  
Delta R.T. -0.01 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

Instrument :  
BNA\_F  
ClientSampled :  
BART-3-E(0-1)

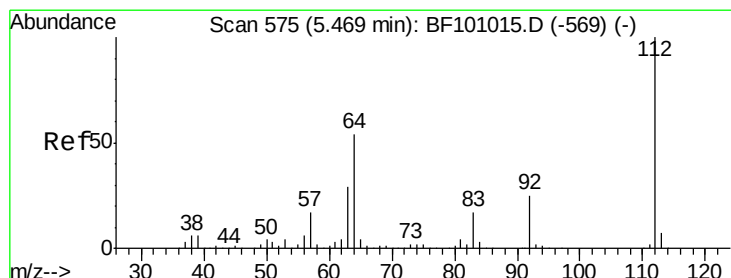
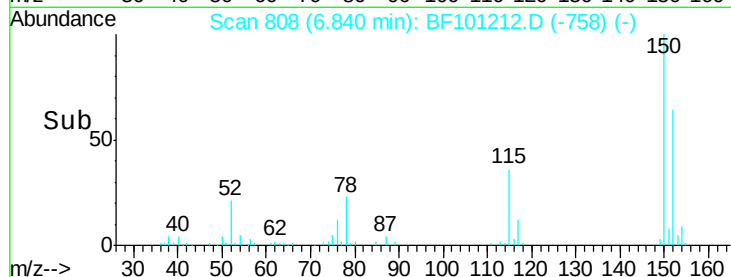
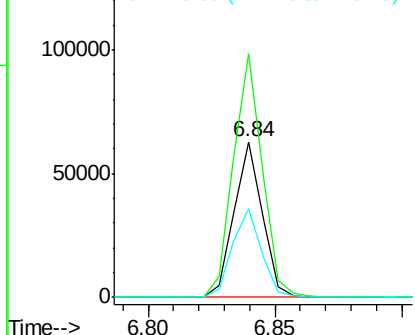
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.1 | 124.6 | 186.8 |
| 115     | 56.6  | 50.1  | 75.1  |

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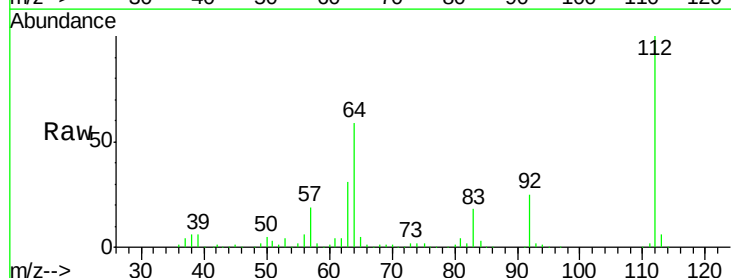
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



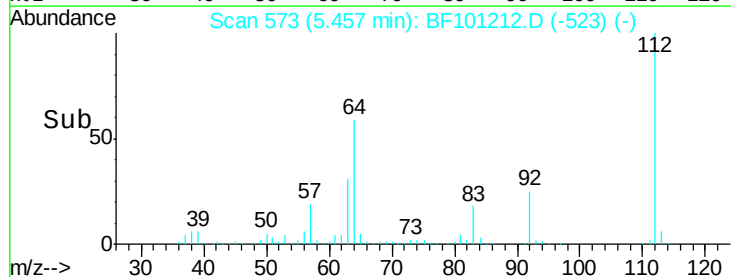
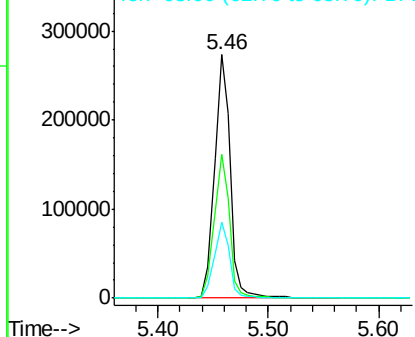
#5

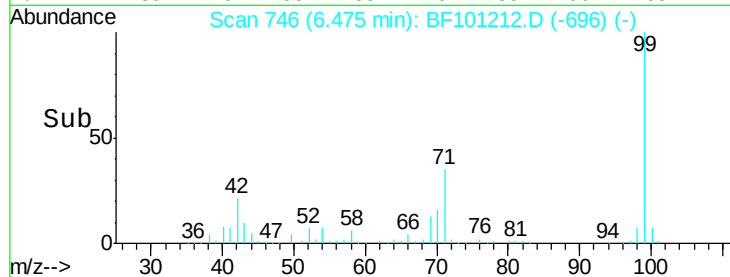
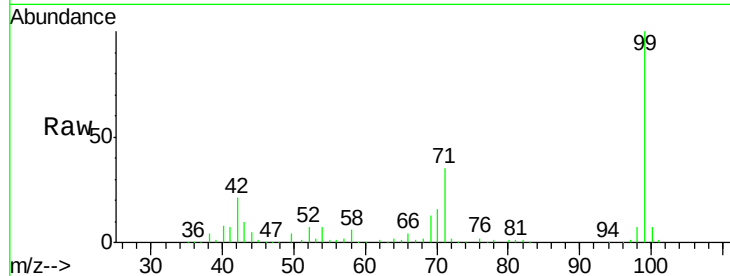
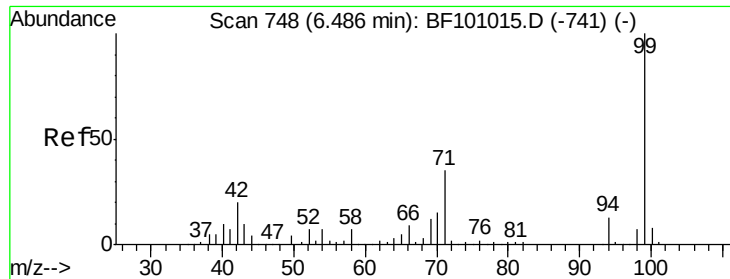
2-Fluorophenol  
Concen: 90.519 ng  
RT: 5.46 min Scan# 573  
Delta R.T. -0.01 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.9  | 47.9  | 71.9  |
| 63      | 31.1  | 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: 89.409 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF101212.D

Acq: 7 Dec 2017 18:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 319307 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 20.7  | 14.5  | 21.7   |
| 71        | 35.2  | 25.4  | 38.0   |

Instrument :

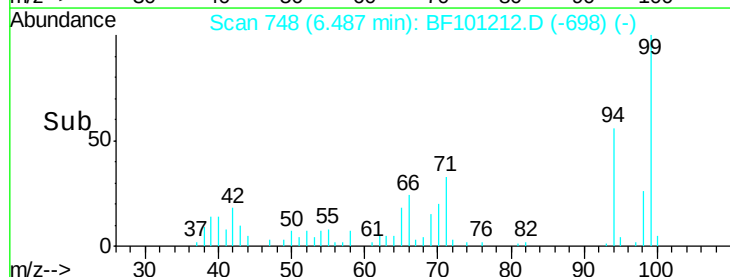
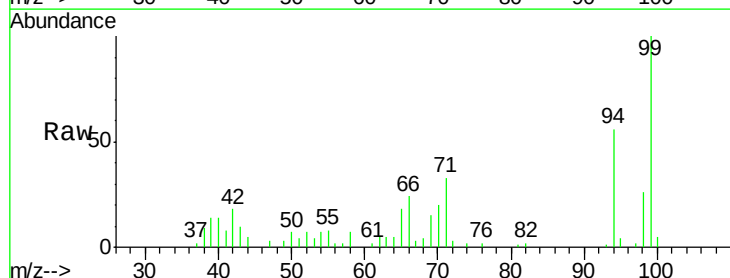
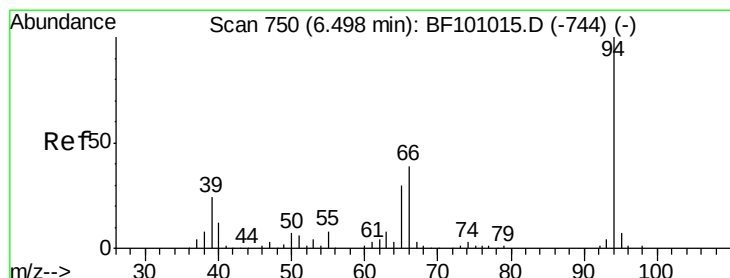
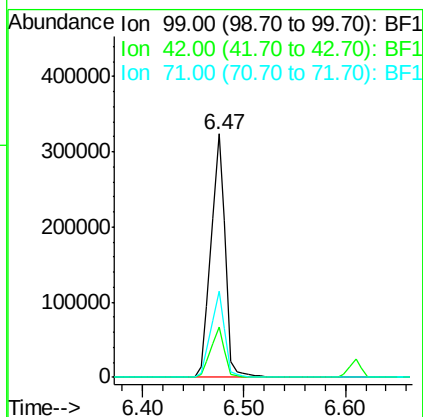
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ClientSampleId :

BART-3-E(0-1)

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#10

Phenol

Concen: 2.162 ng

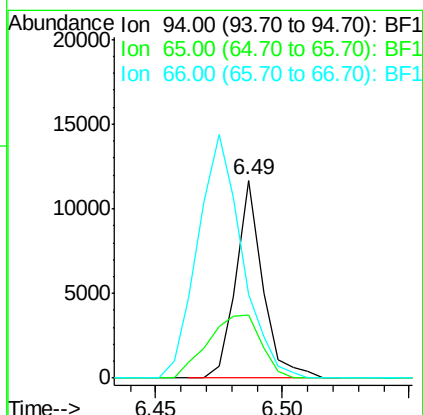
RT: 6.49 min Scan# 748

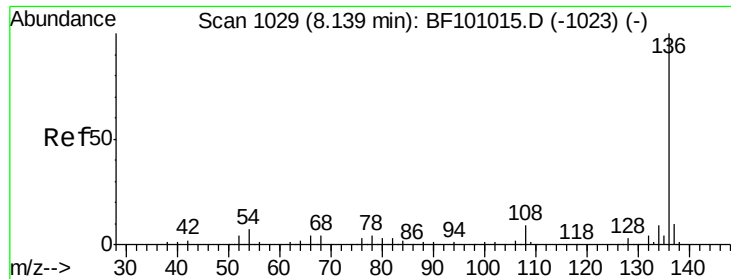
Delta R.T. -0.01 min

Lab File: BF101212.D

Acq: 7 Dec 2017 18:25

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 94    | Resp: | 8586 |
| Ion Ratio | Lower | Upper |      |
| 94        | 100   |       |      |
| 65        | 32.0  | 7.9   | 47.9 |
| 66        | 42.3  | 16.2  | 56.2 |





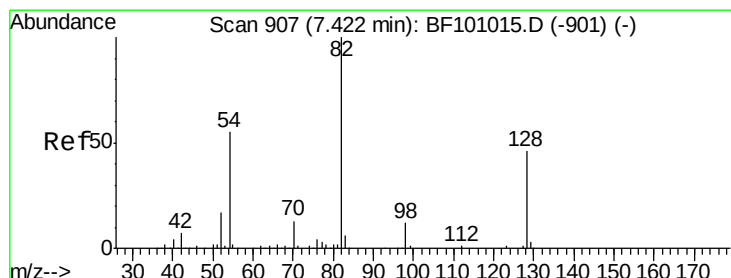
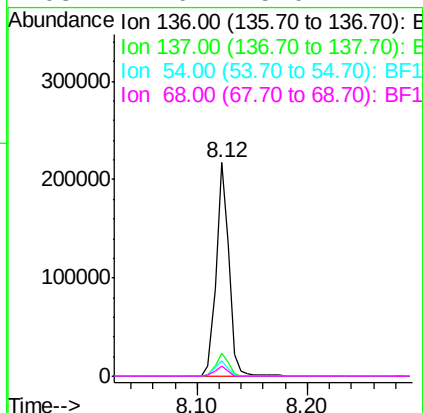
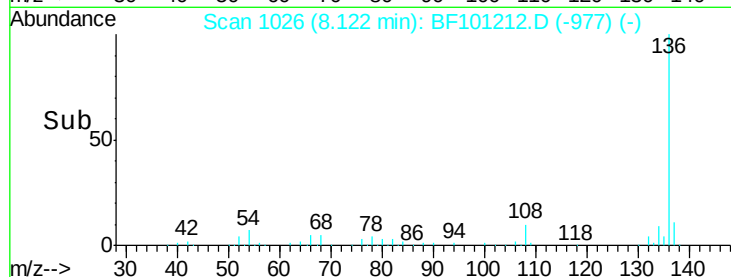
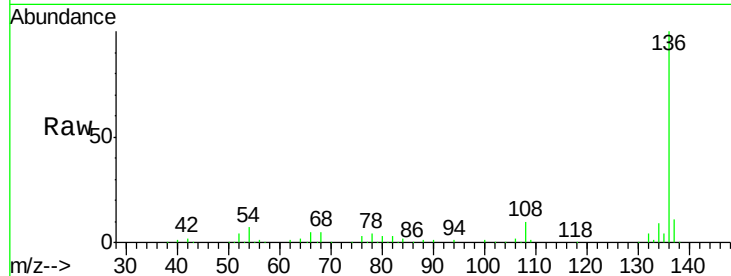
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.12 min Scan# 1026  
Delta R.T. -0.01 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

Instrument :  
BNA\_F  
ClientSampleId :  
BART-3-E(0-1)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 173332 |       |       |
| 137     | 10.9 | 8.9   | 13.3   |       |       |
| 54      | 7.4  | 6.6   | 9.8    |       |       |
| 68      | 4.6  | 5.0   | 7.4#   |       |       |

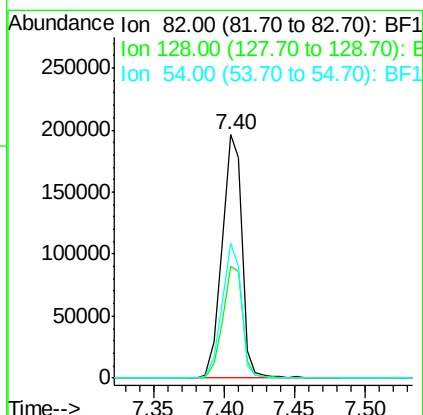
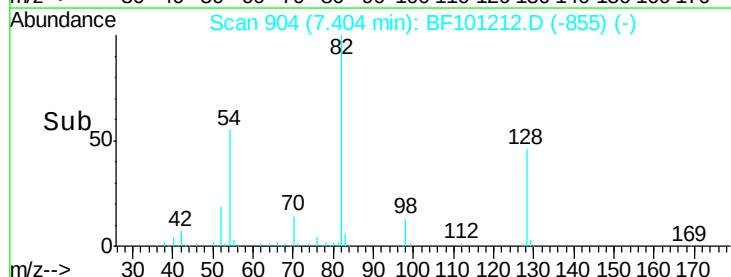
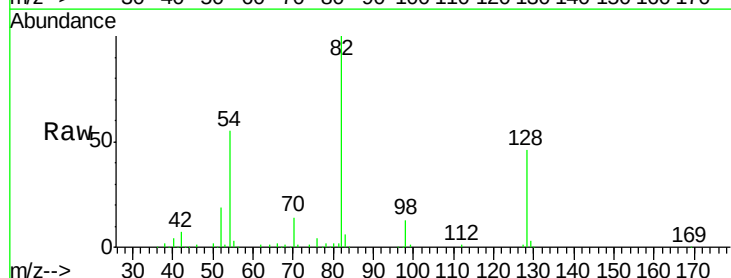
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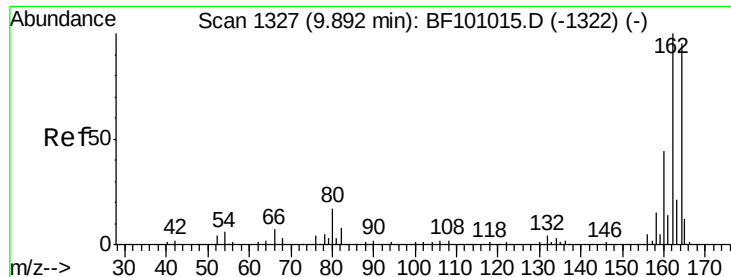
Sohil  
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#23  
Nitrobenzene-d5  
Concen: 66.282 ng  
RT: 7.40 min Scan# 904  
Delta R.T. -0.01 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 82      | 100  |       | 192593 |       |       |
| 128     | 45.9 | 36.1  | 54.1   |       |       |
| 54      | 55.4 | 41.4  | 62.2   |       |       |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF101212.D

Acq: 7 Dec 2017 18:25

Instrument :

BNA\_F

ClientSampleId :

BART-3-E(0-1)

Tot Ion:164 Resp: 68193

Ion Ratio Lower Upper

164 100

162 106.9 86.1 129.1

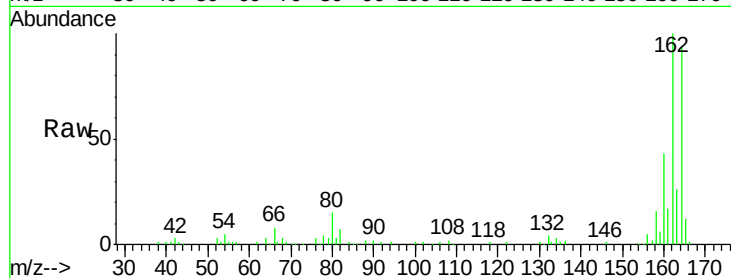
160 46.1 38.3 57.5

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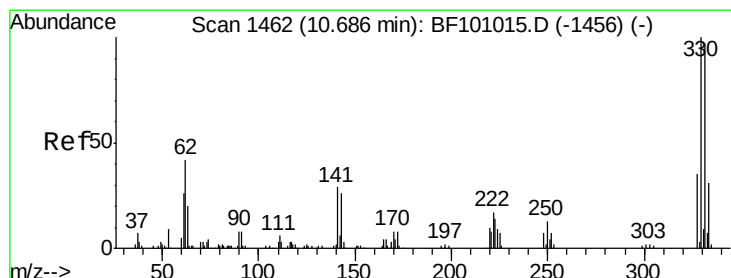
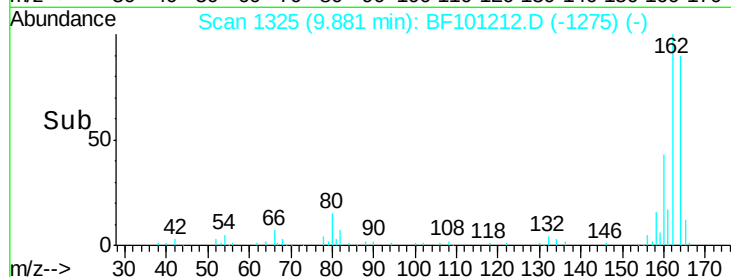
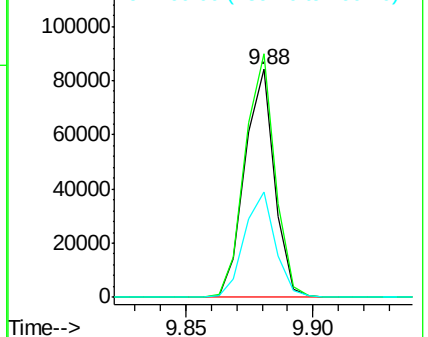
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 68.793 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF101212.D

Acq: 7 Dec 2017 18:25

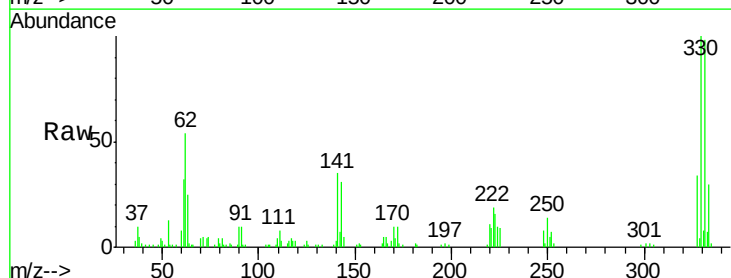
Tgt Ion:330 Resp: 56355

Ion Ratio Lower Upper

330 100

332 97.9 77.0 115.6

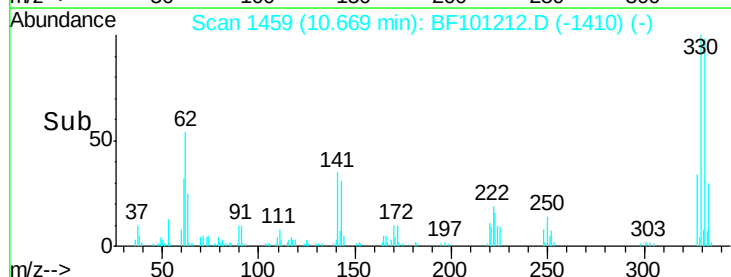
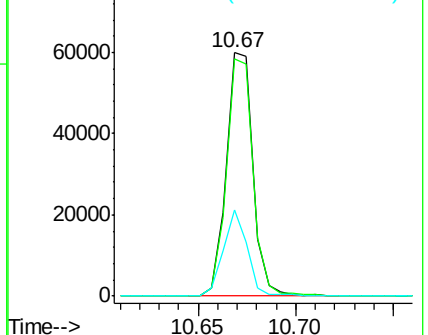
141 31.8 29.9 44.9

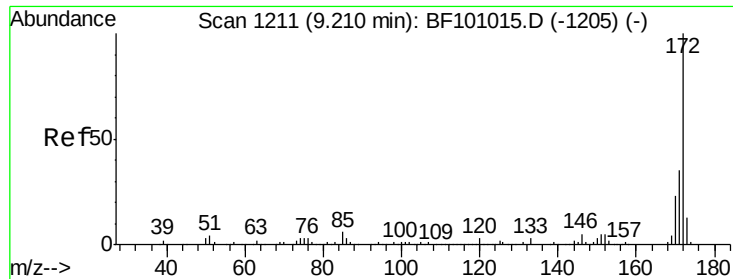


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





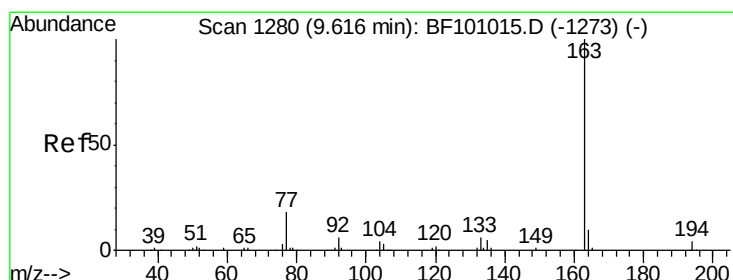
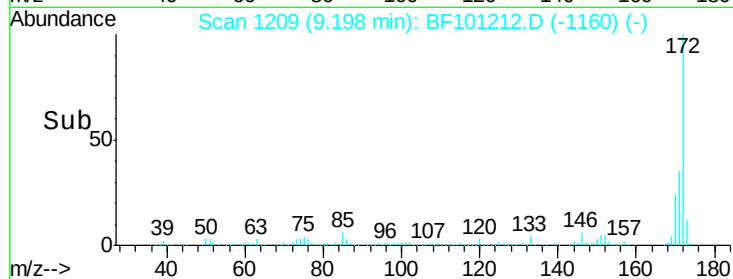
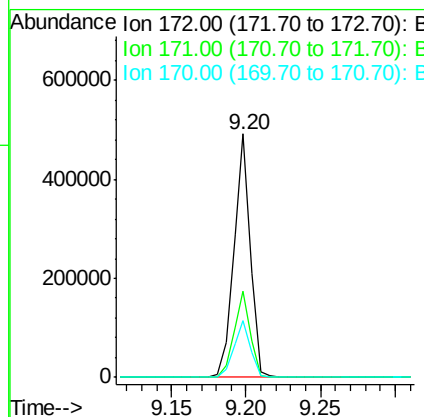
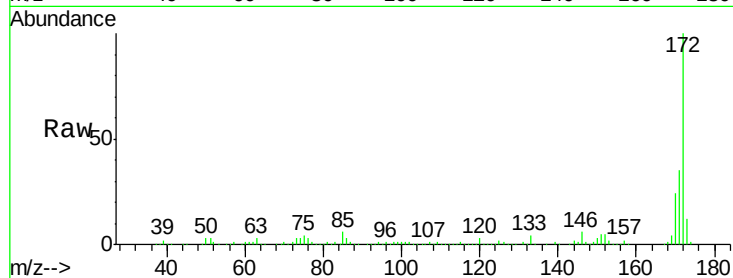
#44  
2-Fluorobiphenyl  
Concen: 76.869 ng  
RT: 9.20 min Scan# 1209  
Delta R.T. -0.01 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

Instrument :  
BNA\_F  
ClientSampleId :  
BART-3-E(0-1)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 383124 |       |       |
| 171     | 35.4  | 29.7   | 44.5  |       |
| 170     | 23.5  | 19.6   | 29.4  |       |

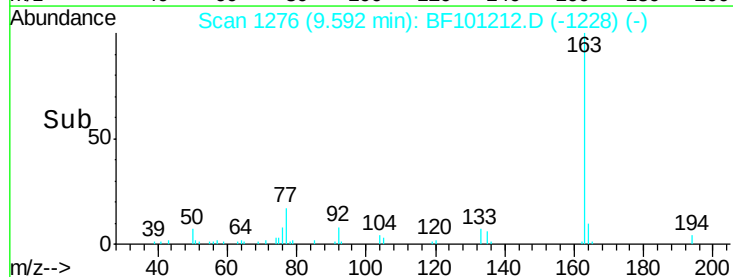
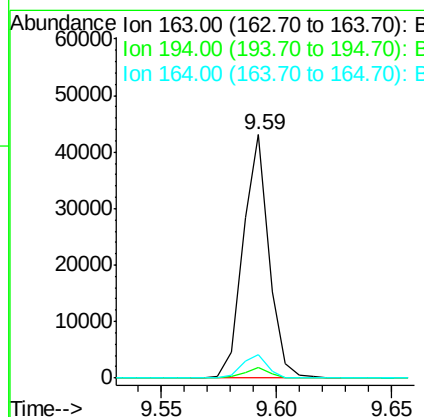
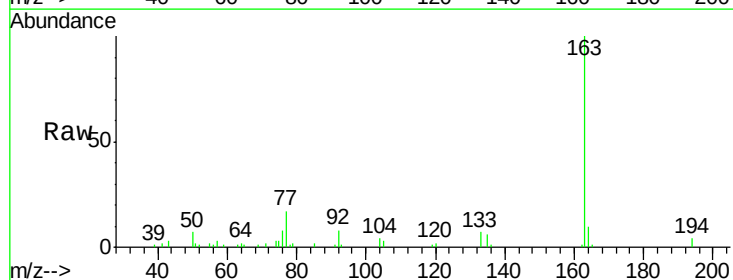
Manual Integrations  
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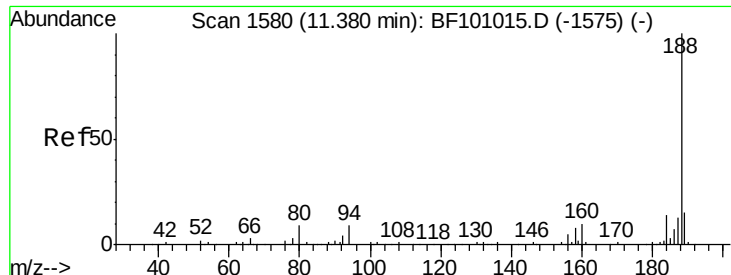
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#49  
Dimethylphthalate  
Concen: 6.092 ng  
RT: 9.59 min Scan# 1276  
Delta R.T. -0.02 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 33502 |       |       |
| 194     | 4.2   | 2.7   | 4.1#  |       |
| 164     | 9.8   | 8.2   | 12.2  |       |





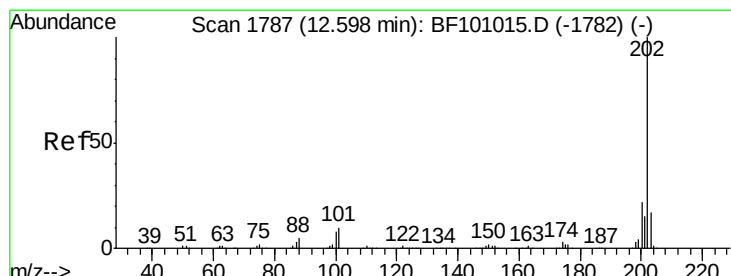
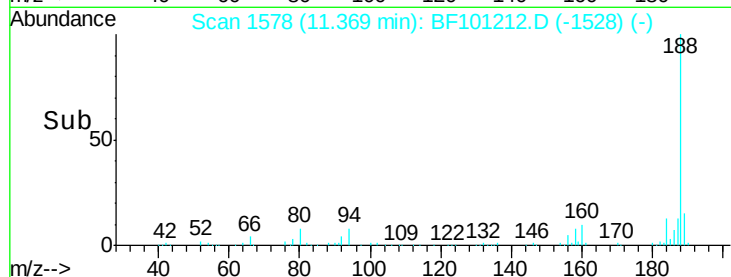
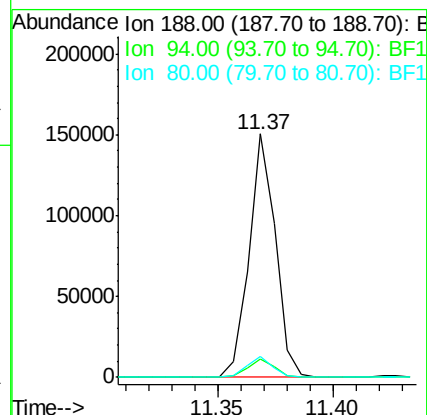
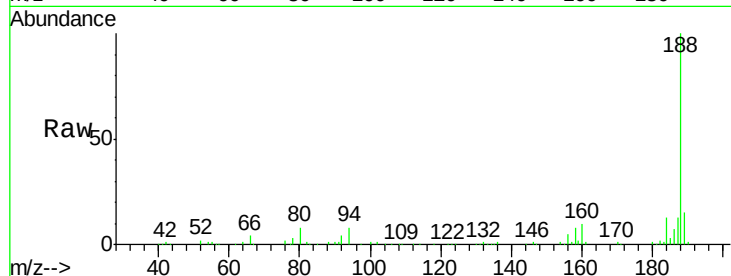
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.37 min Scan# 1578  
Delta R.T. -0.01 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

Instrument :  
BNA\_F  
ClientSampleId :  
BART-3-E(0-1)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 7.6   | 8.5        | 12.7# |
| 80      | 8.4   | 9.2        | 13.8# |

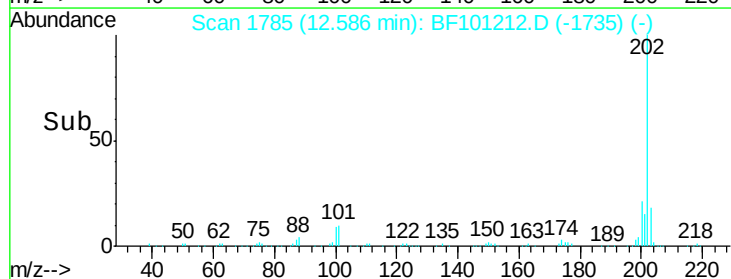
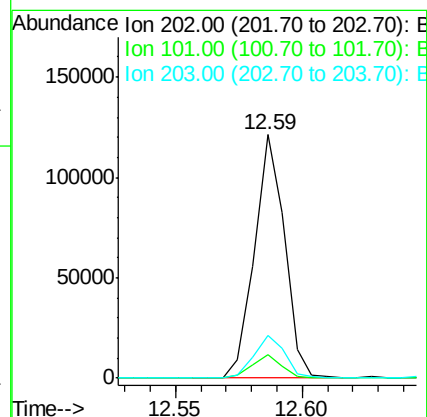
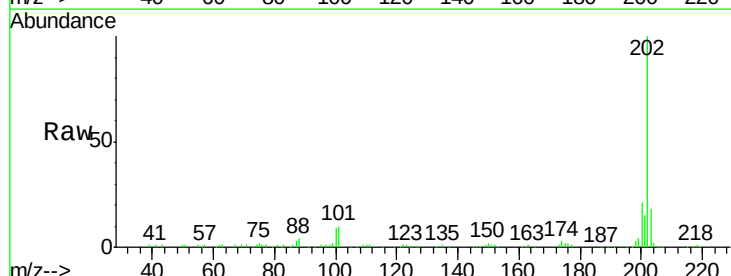
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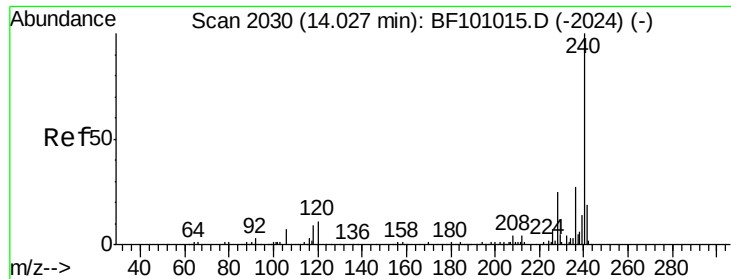


#74  
Fluoranthene  
Concen: 13.723 ng  
RT: 12.59 min Scan# 1785  
Delta R.T. -0.01 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 9.6   | 0.0        | 34.1  |
| 203     | 17.8  | 0.0        | 38.1  |







#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.00 min

Lab File: BF101212.D

Acq: 7 Dec 2017 18:25

Instrument :

BNA\_F

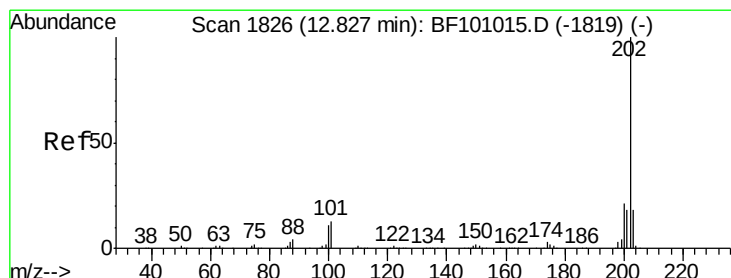
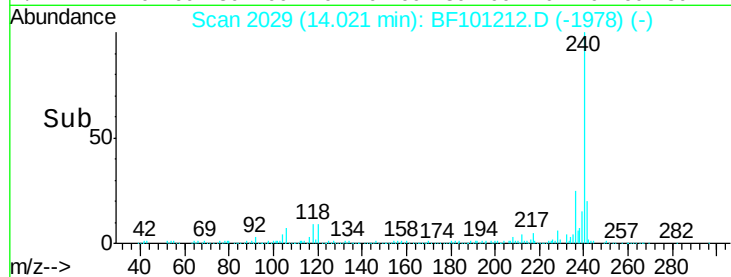
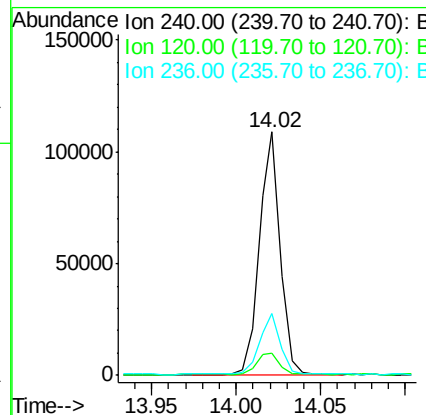
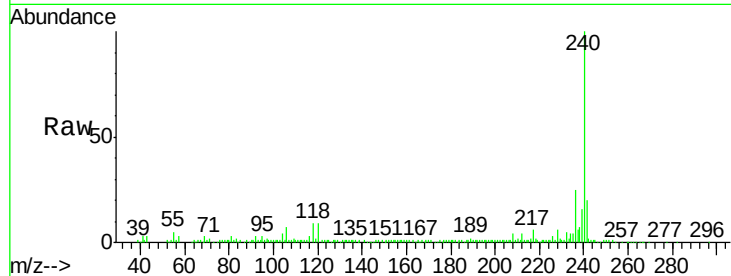
ClientSampleId :

BART-3-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.2   | 9.5   | 14.3# |
| 236     | 25.3  | 20.7  | 31.1  |

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#77

Pyrene

Concen: 12.759 ng

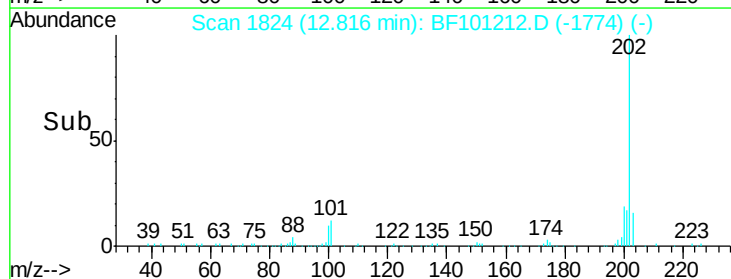
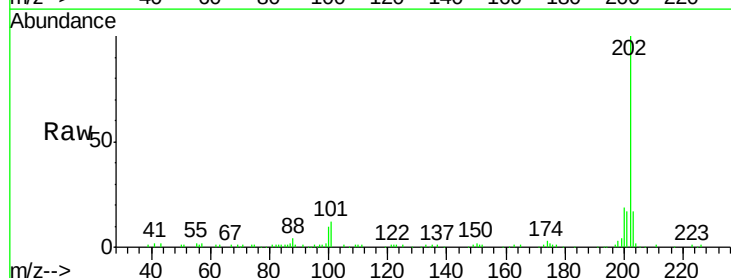
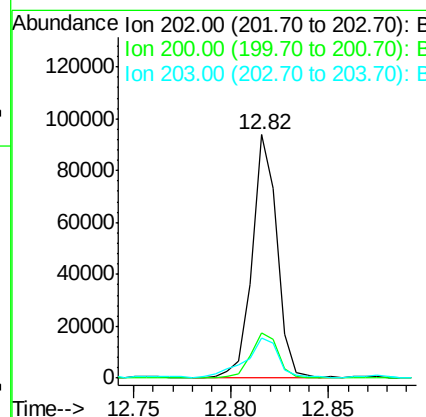
RT: 12.82 min Scan# 1824

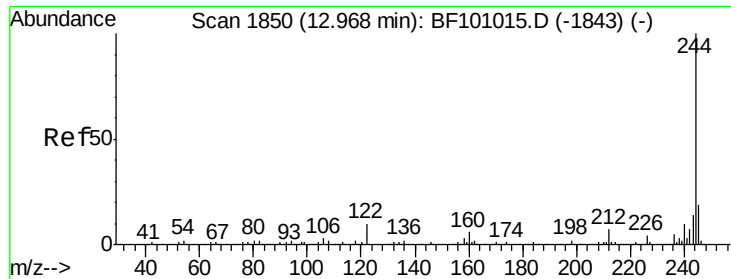
Delta R.T. -0.01 min

Lab File: BF101212.D

Acq: 7 Dec 2017 18:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 18.8  | 17.4  | 26.2  |
| 203     | 16.7  | 14.3  | 21.5  |





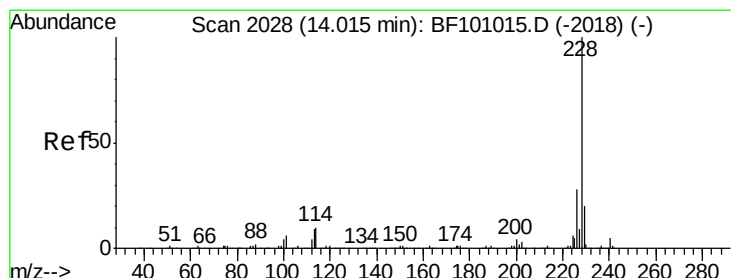
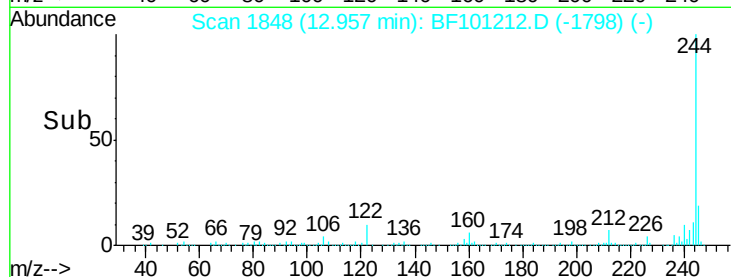
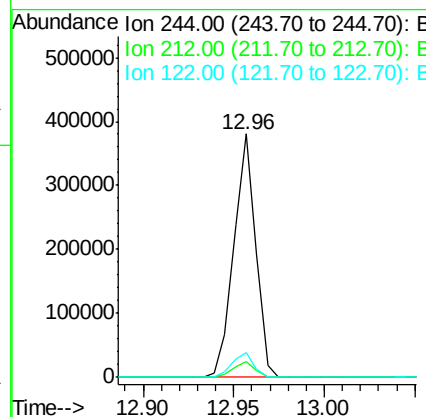
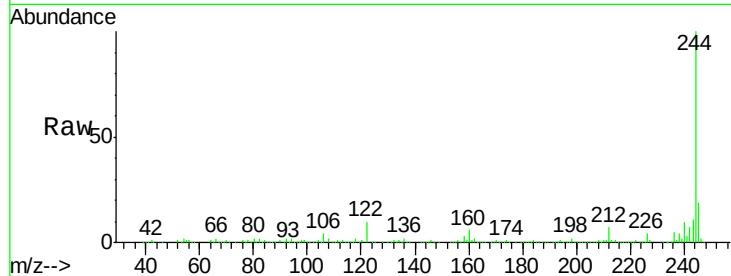
#78  
 Terphenyl-d14  
 Concen: 74.294 ng  
 RT: 12.96 min Scan# 1848  
 Delta R.T. -0.01 min  
 Lab File: BF101212.D  
 Acq: 7 Dec 2017 18:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BART-3-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 5.4   | 8.0   |
| 122     | 10.2  | 11.0  | 16.4  |

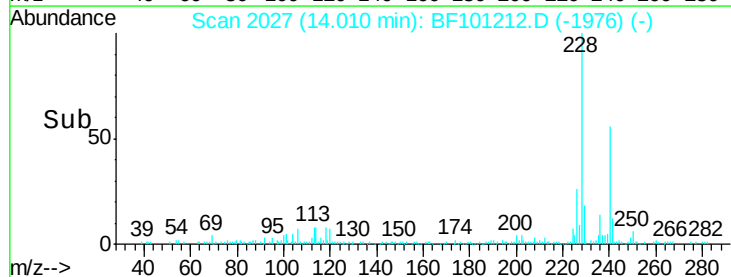
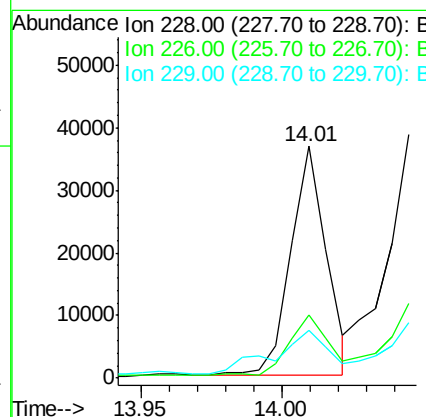
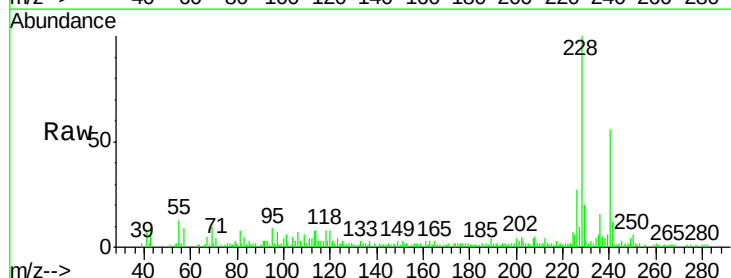
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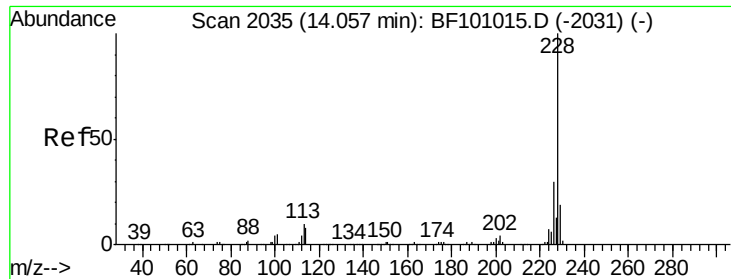
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#80  
 Benzo(a)anthracene  
 Concen: 5.360 ng  
 RT: 14.01 min Scan# 2027  
 Delta R.T. 0.00 min  
 Lab File: BF101212.D  
 Acq: 7 Dec 2017 18:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.1  | 22.6  | 33.8  |
| 229     | 20.4  | 15.8  | 23.6  |





#82

Chrysene

Concen: 6.388 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF101212.D

Acq: 7 Dec 2017 18:25

Instrument :

BNA\_F

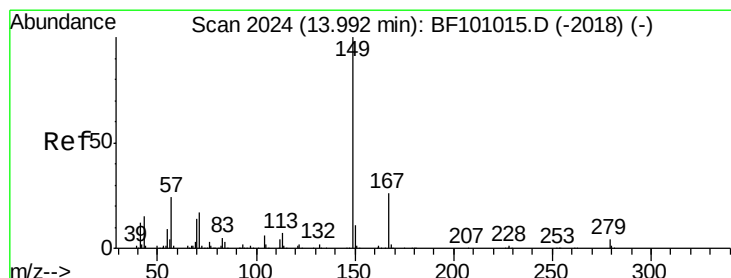
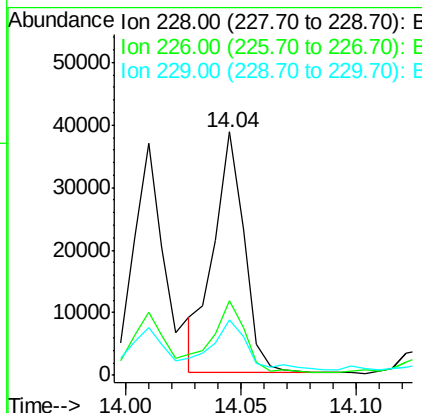
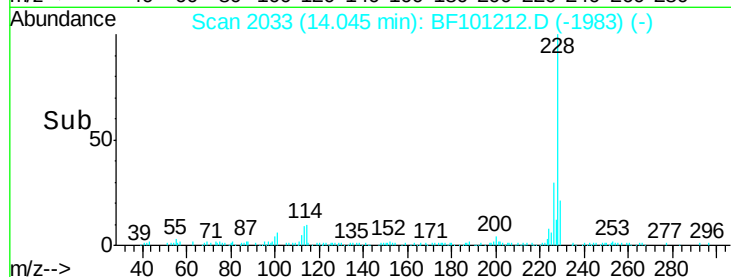
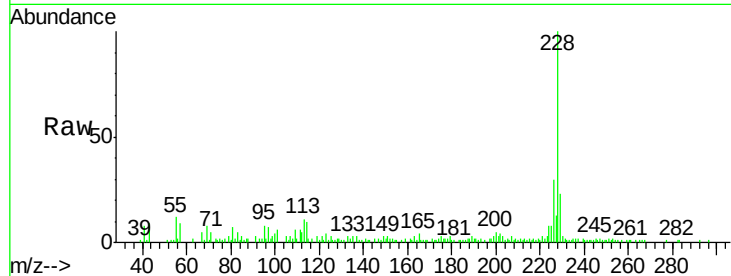
ClientSampleId :

BART-3-E(0-1)

|           |      |       |       |
|-----------|------|-------|-------|
| Tot Ion:  | 228  | Resp: | 35367 |
| Ion Ratio |      | Lower | Upper |
| 228       | 100  |       |       |
| 226       | 30.5 | 25.0  | 37.6  |
| 229       | 23.0 | 16.2  | 24.4  |

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#83

Bis(2-ethylhexyl)phthalate

Concen: 2.730 ng

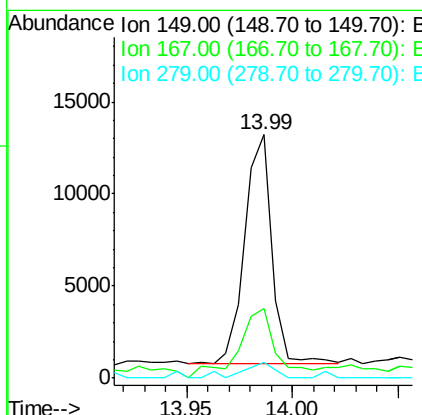
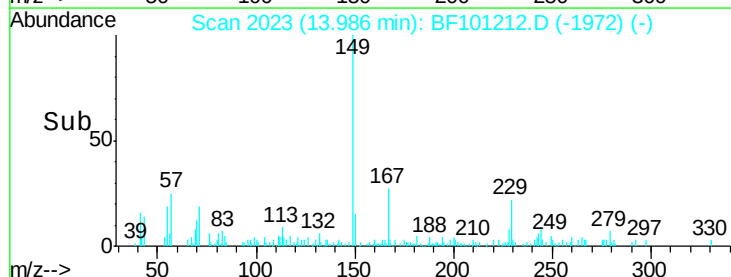
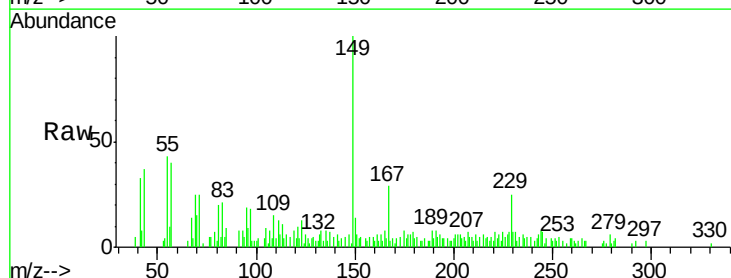
RT: 13.99 min Scan# 2023

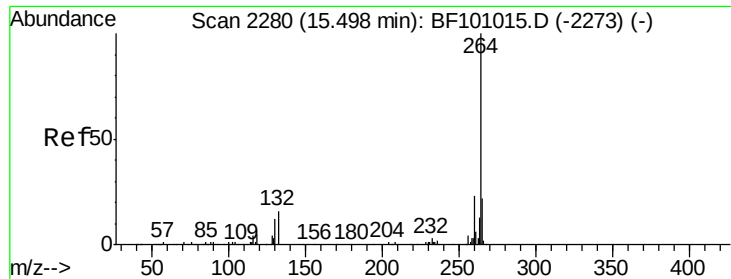
Delta R.T. 0.00 min

Lab File: BF101212.D

Acq: 7 Dec 2017 18:25

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 149  | Resp: | 11180 |
| Ion Ratio |      | Lower | Upper |
| 149       | 100  |       |       |
| 167       | 28.7 | 21.3  | 31.9  |
| 279       | 6.2  | 3.0   | 4.4#  |





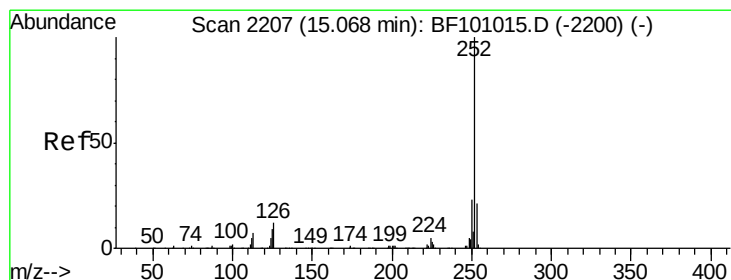
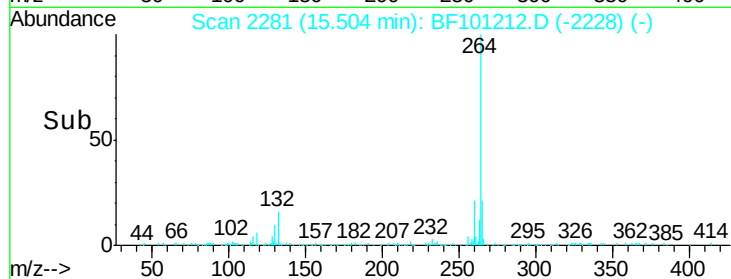
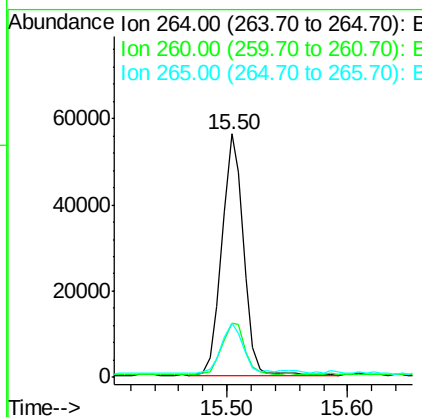
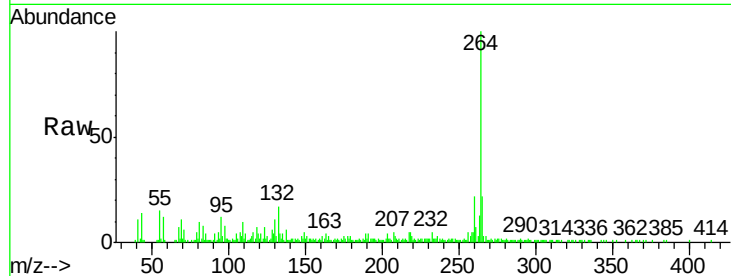
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.50 min Scan# 2281  
Delta R.T. 0.01 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

Instrument :  
BNA\_F  
ClientSampleId :  
BART-3-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.2  | 19.2  | 28.8  |
| 265     | 22.5  | 17.5  | 26.3  |

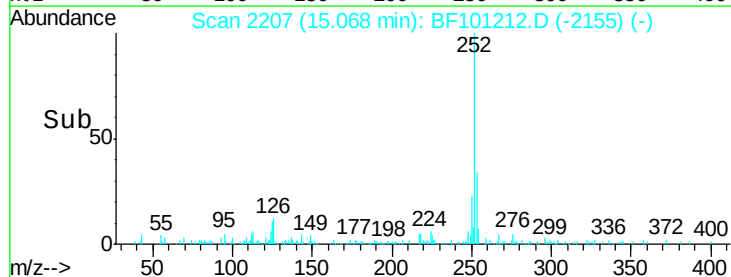
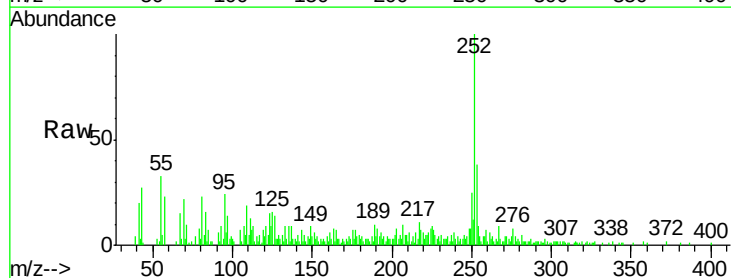
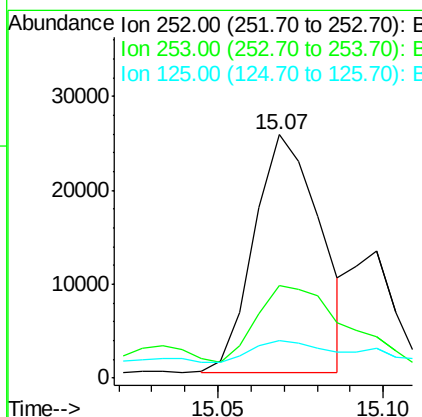
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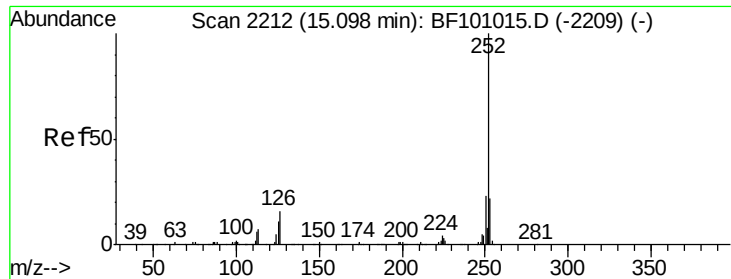
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#87  
Benzo(b)fluoranthene  
Concen: 8.463 ng m  
RT: 15.07 min Scan# 2207  
Delta R.T. 0.01 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 38.0  | 17.0  | 25.6# |
| 125     | 15.7  | 9.0   | 13.6# |





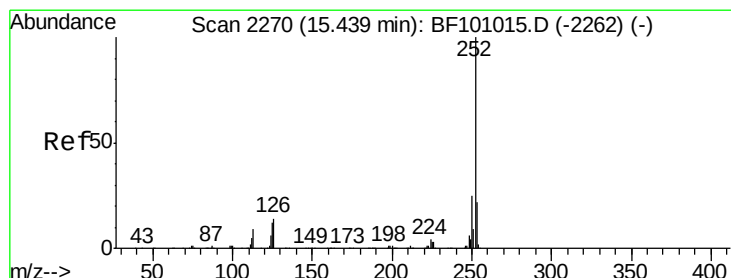
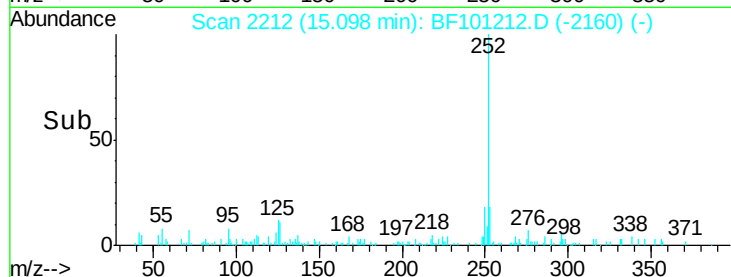
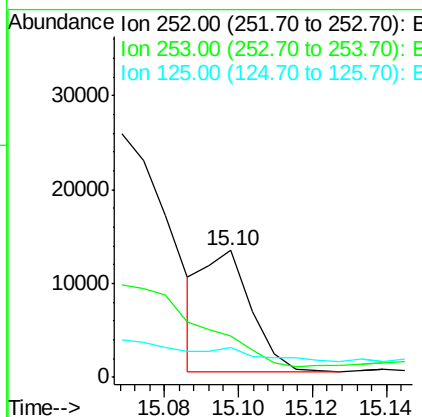
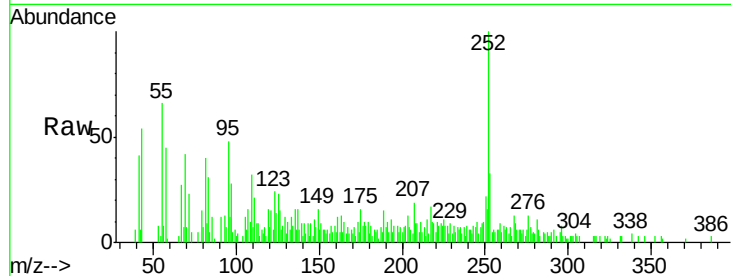
#88  
Benzo(k)fluoranthene  
Concen: 2.893 ng/mL  
RT: 15.10 min Scan# 2212  
Delta R.T. 0.01 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

Instrument :  
BNA\_F  
ClientSampleId :  
BART-3-E(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 32.6  | 17.9  | 26.9# |
| 125     | 23.0  | 10.2  | 15.2# |

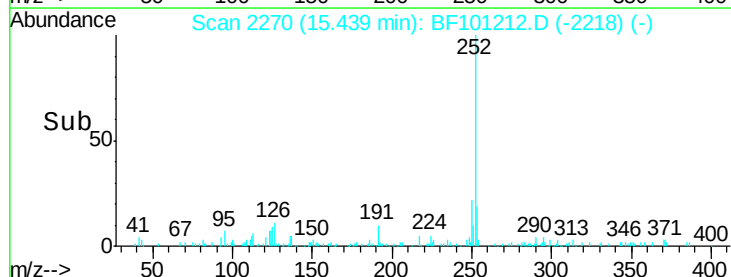
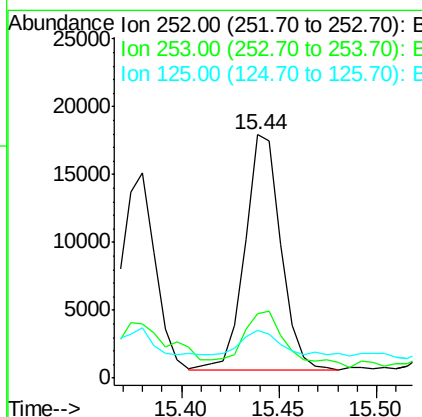
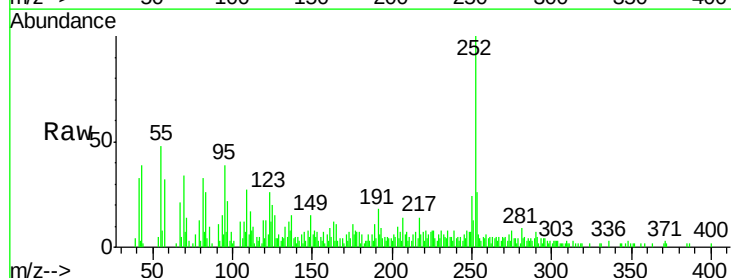
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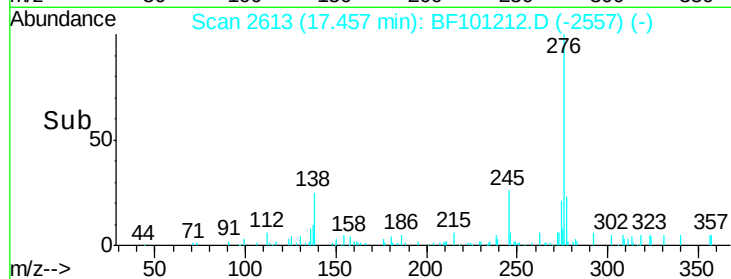
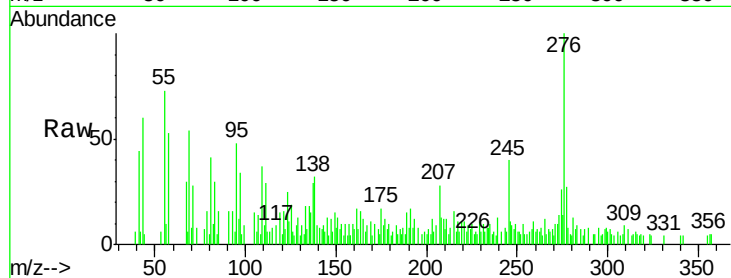
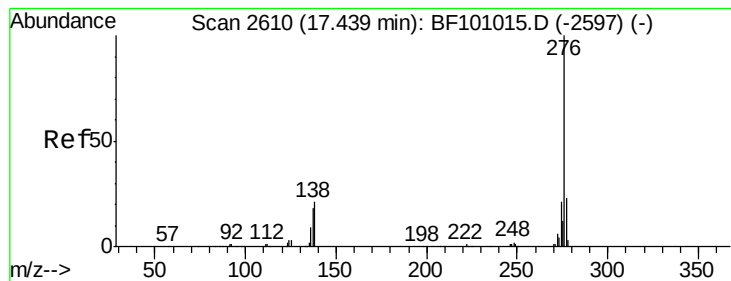
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#89  
Benzo(a)pyrene  
Concen: 5.833 ng/mL  
RT: 15.44 min Scan# 2270  
Delta R.T. 0.01 min  
Lab File: BF101212.D  
Acq: 7 Dec 2017 18:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.4  | 17.1  | 25.7# |
| 125     | 19.8  | 9.8   | 14.6# |





#91

Benzo(a,h,i)perylene

Concen: 5.067 ng

RT: 17.46 min Scan# 2613

Delta R.T. 0.03 min

Lab File: BF101212.D

Acq: 7 Dec 2017 18:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 15928 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 27.4  | 17.9  | 26.9# |
| 138       | 31.7  | 21.8  | 32.8  |

Instrument :

BNA\_F

ClientSampleId :

BART-3-E(0-1)

Manual Integrations  
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