

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031117\  
 Data File : BF093596.D  
 Acq On : 12 Mar 2017 7:38  
 Operator : SJ/MA  
 Sample : I2010-09  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HY-SB412C

Manual Integrations  
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Quant Time: Mar 13 18:34:58 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 13 15:05:08 2017  
 Response via : Initial Calibration

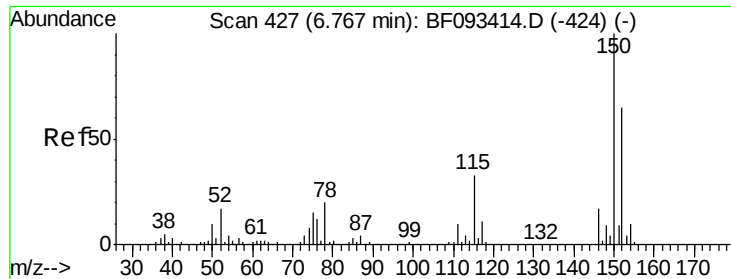
| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 168273   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.02  | 136  | 515949   | 20.00 | ng    | 0.01     |
| 38) Acenaphthene-d10      | 9.78  | 164  | 160418   | 20.00 | ng    | 0.02     |
| 63) Phenanthrene-d10      | 11.27 | 188  | 276597   | 20.00 | ng    | 0.02     |
| 75) Chrysene-d12          | 13.90 | 240  | 306738   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12          | 15.31 | 264  | 260832   | 20.00 | ng    | 0.02     |

|                             |       |     |         |        |    |      |
|-----------------------------|-------|-----|---------|--------|----|------|
| System Monitoring Compounds |       |     |         |        |    |      |
| 5) 2-Fluorophenol           | 5.32  | 112 | 1426703 | 141.11 | ng | 0.00 |
| 7) Phenol-d6                | 6.39  | 99  | 1789833 | 140.38 | ng | 0.01 |
| 23) Nitrobenzene-d5         | 7.30  | 82  | 928107  | 99.81  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.58 | 330 | 151769  | 145.21 | ng | 0.03 |
| 44) 2-Fluorobiphenyl        | 9.10  | 172 | 1122036 | 130.10 | ng | 0.01 |
| 78) Terphenyl-d14           | 12.84 | 244 | 843466  | 71.49  | ng | 0.01 |

|                                |       |     |         |       |    |        |
|--------------------------------|-------|-----|---------|-------|----|--------|
| Target Compounds               |       |     |         |       |    | Qvalue |
| 10) Phenol                     | 6.40  | 94  | 136885  | 8.76  | ng | 95     |
| 31) Naphthalene                | 8.05  | 128 | 319849  | 12.37 | ng | # 81   |
| 37) 2-Methylnaphthalene        | 8.73  | 142 | 147112  | 8.94  | ng | # 88   |
| 45) 1,1'-Biphenyl              | 9.20  | 154 | 33070   | 2.83  | ng | 82     |
| 49) Dimethylphthalate          | 9.50  | 163 | 151034  | 14.20 | ng | # 62   |
| 51) Acenaphthene               | 9.82  | 154 | 140738  | 16.13 | ng | # 79   |
| 57) Fluorene                   | 10.33 | 166 | 259877  | 28.09 | ng | # 88   |
| 70) Phenanthrene               | 11.29 | 178 | 633269  | 40.11 | ng | # 93   |
| 71) Anthracene                 | 11.35 | 178 | 214359  | 13.42 | ng | # 85   |
| 74) Fluoranthene               | 12.48 | 202 | 1202096 | 78.82 | ng | 97     |
| 77) Pyrene                     | 12.71 | 202 | 1400319 | 62.77 | ng | 99     |
| 80) Benzo(a)anthracene         | 13.89 | 228 | 525775m | 29.03 | ng |        |
| 82) Chrysene                   | 13.92 | 228 | 561809m | 33.52 | ng |        |
| 83) Bis(2-ethylhexyl)phthalate | 13.87 | 149 | 65536   | 5.01  | ng | # 87   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.67 | 276 | 287002  | 20.46 | ng | 97     |
| 87) Benzo(b)fluoranthene       | 14.92 | 252 | 616096m | 38.78 | ng |        |
| 88) Benzo(k)fluoranthene       | 14.93 | 252 | 196217m | 12.81 | ng |        |
| 89) Benzo(a)pyrene             | 15.26 | 252 | 414273  | 28.53 | ng | # 91   |
| 90) Dibenzo(a,h)anthracene     | 16.67 | 278 | 59587   | 4.96  | ng | # 64   |
| 91) Benzo(g,h,i)perylene       | 17.08 | 276 | 286686  | 23.26 | ng | # 87   |

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

```
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031117\  
Data File : BF093596.D  
Acq On    : 12 Mar 2017    7:38  
Operator  : SJ/MA  
Sample    : I2010-09  
Misc      :  
ALS Vial  : 31    Sample Multiplier: 1
```



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.72 min Scan# 423

Delta R.T. -0.00 min

Lab File: BF093596.D

Acq: 12 Mar 2017 7:38

Instrument :

BNA\_F

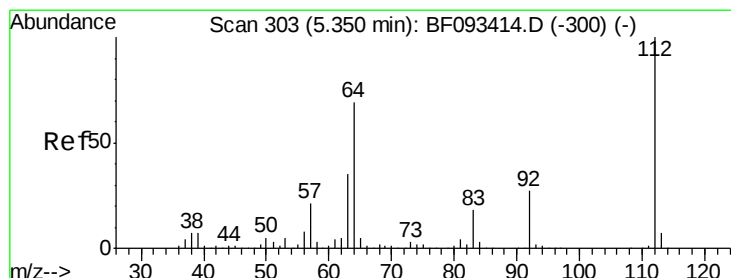
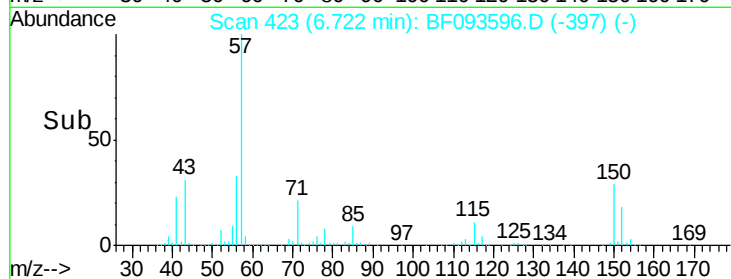
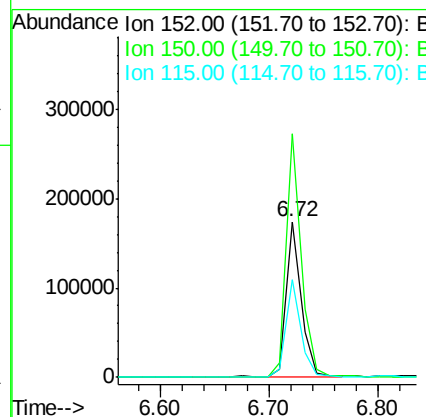
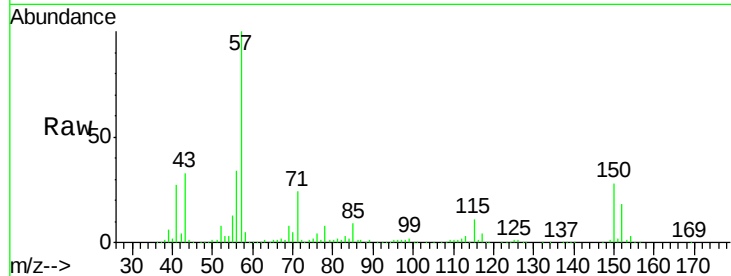
ClientSampleId :

HY-SB412C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 124.9 | 187.3 |
| 115     | 62.4  | 46.0  | 69.0  |

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#5

2-Fluorophenol

Concen: 141.11 ng

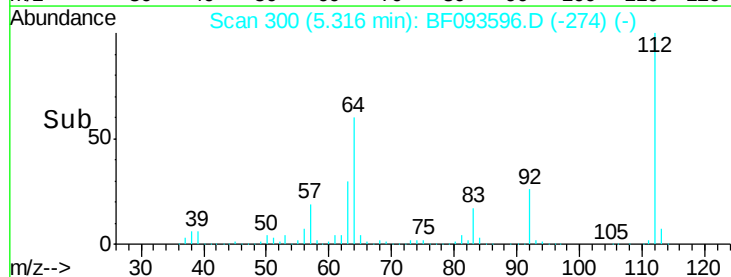
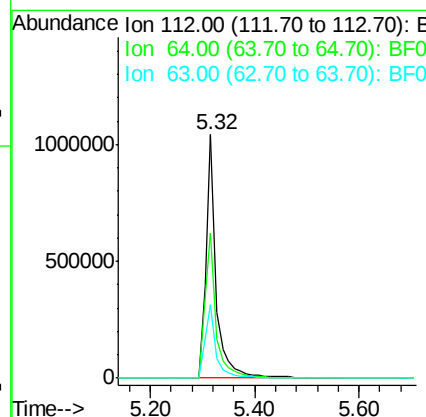
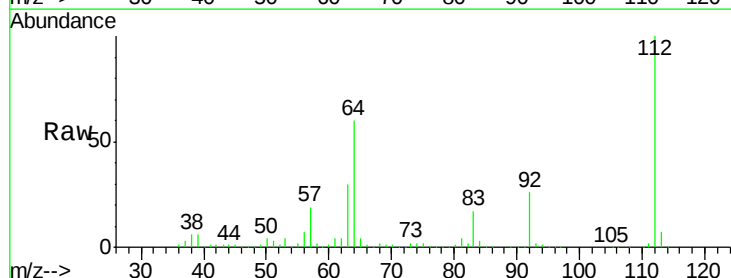
RT: 5.32 min Scan# 300

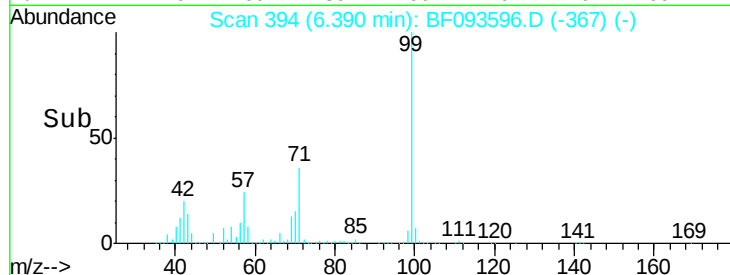
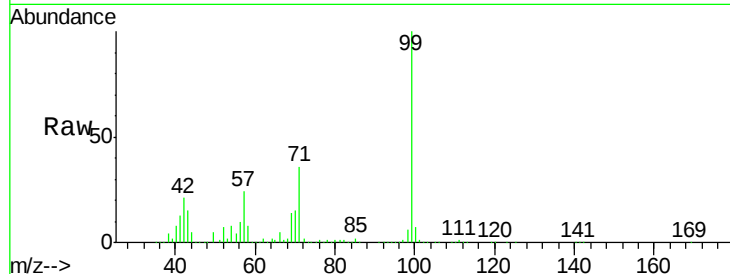
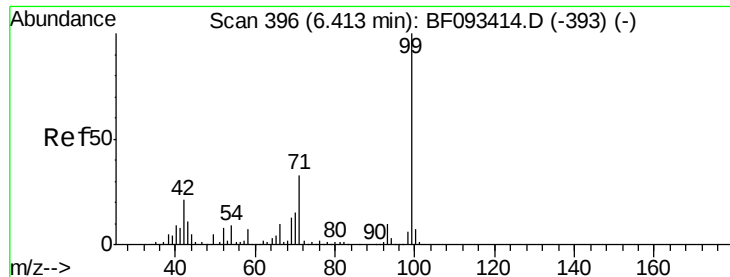
Delta R.T. 0.00 min

Lab File: BF093596.D

Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.6  | 46.1  | 69.1  |
| 63      | 29.9  | 23.8  | 35.6  |





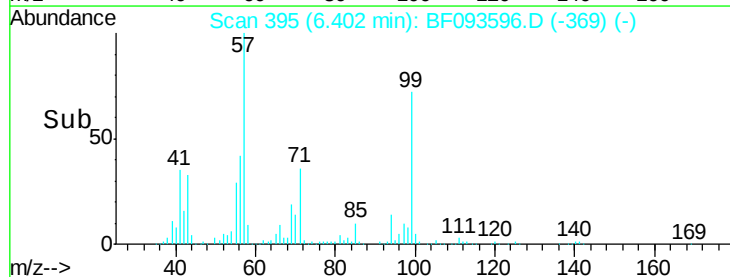
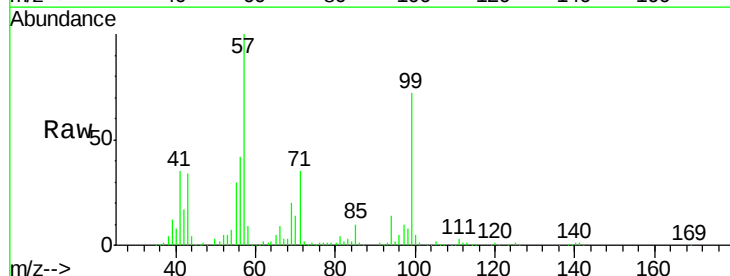
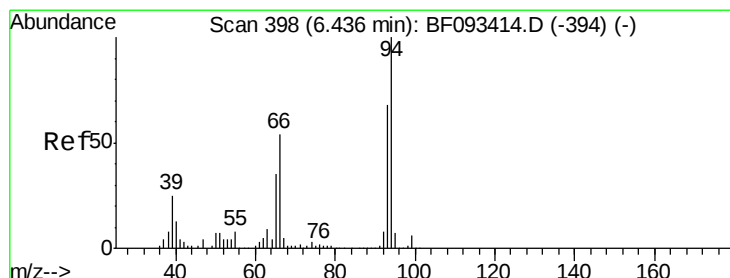
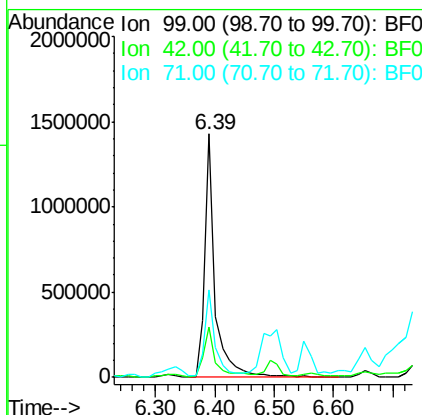
#7  
Phenol-d6  
Concen: 140.38 ng  
RT: 6.39 min Scan# 394  
Delta R.T. 0.01 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

Tgt Ion: 99 Resp: 1789833  
Ion Ratio Lower Upper  
99 100  
42 20.6 15.6 23.4  
71 36.0 27.5 41.3

Instrument :  
BNA\_F  
ClientSampleId :  
HY-SB412C

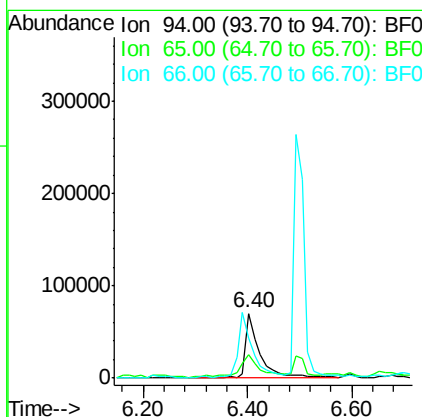
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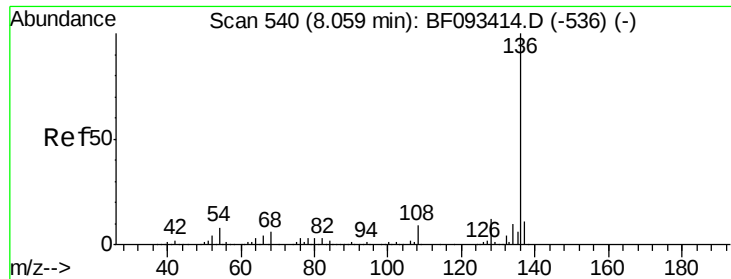
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#10  
Phenol  
Concen: 8.76 ng  
RT: 6.40 min Scan# 395  
Delta R.T. -0.00 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

Tgt Ion: 94 Resp: 136885  
Ion Ratio Lower Upper  
94 100  
65 36.8 21.4 61.4  
66 61.0 44.0 84.0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.02 min Scan# 537

Delta R.T. 0.01 min

Lab File: BF093596.D

Acq: 12 Mar 2017 7:38

Instrument :

BNA\_F

ClientSampleId :

HY-SB412C

Tgt Ion: 136 Resp: 515949  
Ion Ratio Lower Upper

136 100

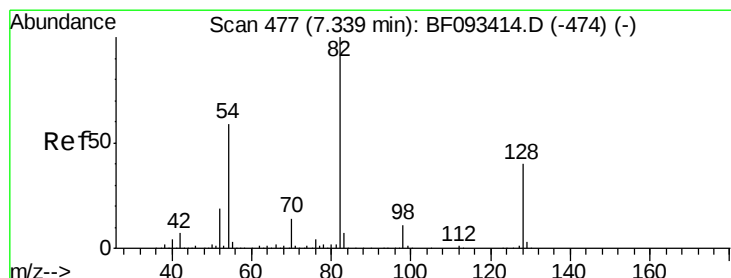
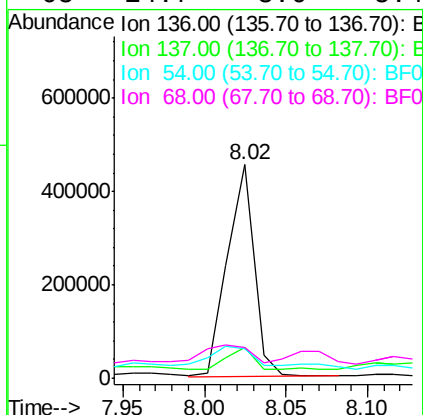
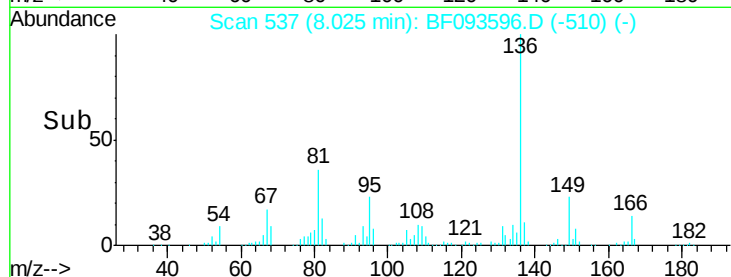
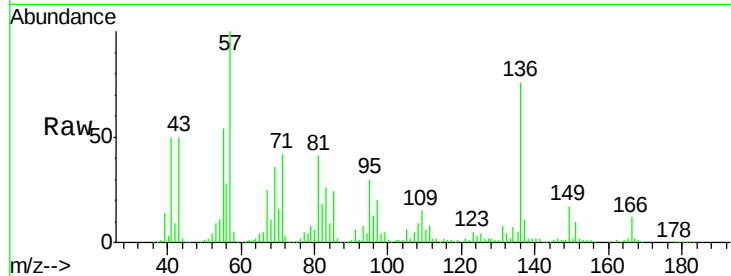
137 14.1 8.4 12.6#

54 14.0 4.5 6.7#

68 14.7 3.6 5.4#

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#23

Nitrobenzene-d5

Concen: 99.81 ng

RT: 7.30 min Scan# 474

Delta R.T. 0.00 min

Lab File: BF093596.D

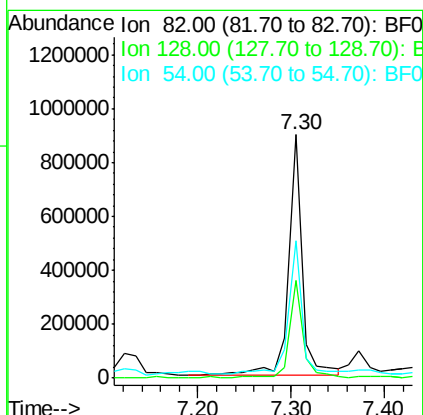
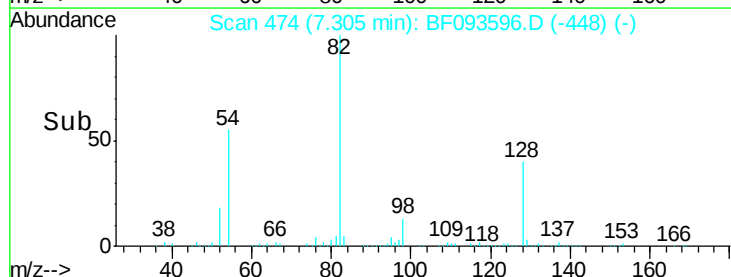
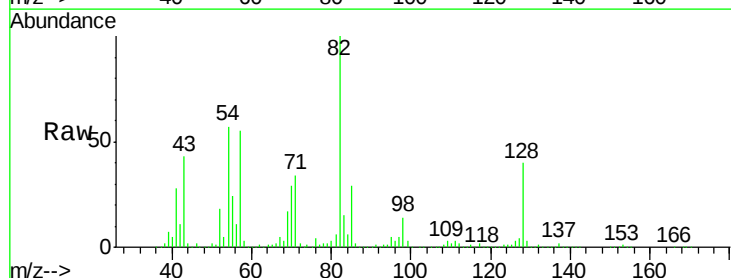
Acq: 12 Mar 2017 7:38

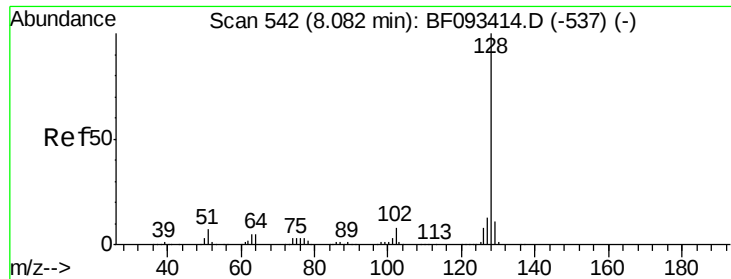
Tgt Ion: 82 Resp: 928107  
Ion Ratio Lower Upper

82 100

128 40.4 34.6 52.0

54 56.5 39.5 59.3





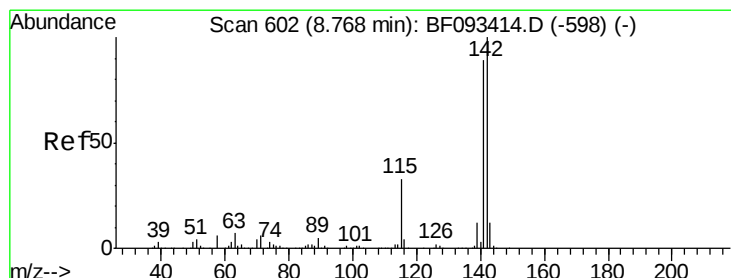
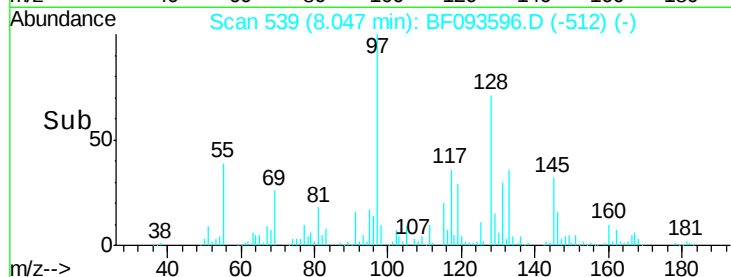
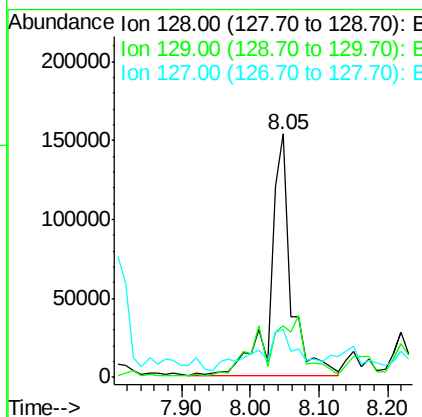
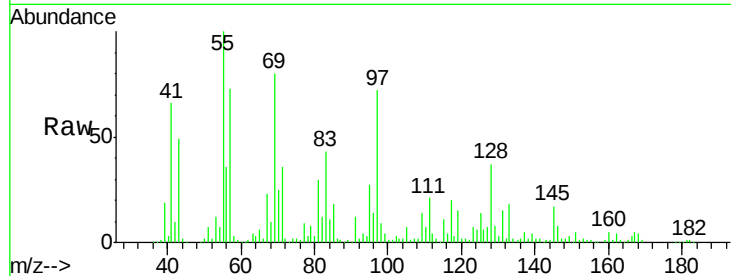
#31  
Naphthalene  
Concen: 12.37 ng  
RT: 8.05 min Scan# 539  
Delta R.T. 0.01 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

Instrument :  
BNA\_F  
ClientSampleId :  
HY-SB412C

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 319849 |       |       |
| 129     | 21.1  | 9.5    | 14.3# |       |
| 127     | 19.4  | 10.8   | 16.2# |       |

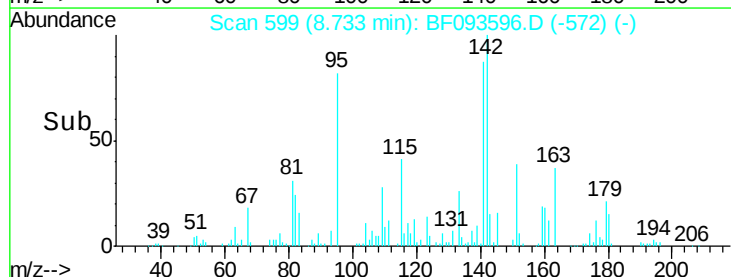
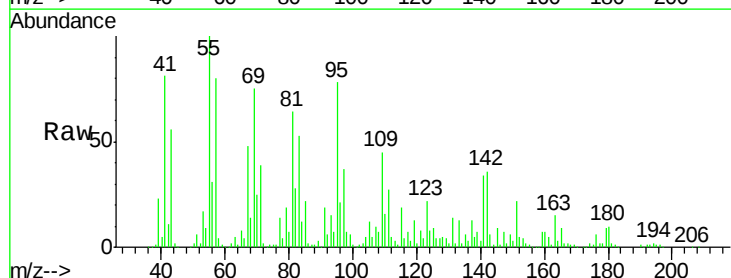
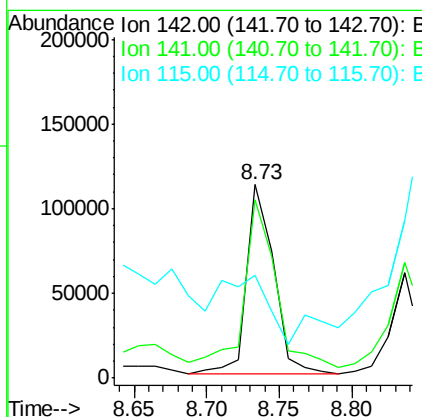
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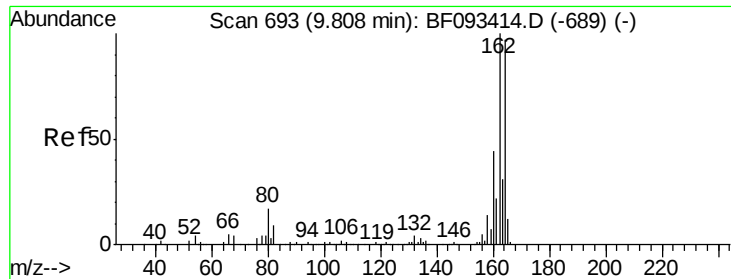
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#37  
2-Methylnaphthalene  
Concen: 8.94 ng  
RT: 8.73 min Scan# 599  
Delta R.T. 0.01 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 147112 |       |       |
| 141     | 92.4  | 71.0   | 106.6 |       |
| 115     | 53.4  | 28.3   | 42.5# |       |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 691

Delta R.T. 0.02 min

Lab File: BF093596.D

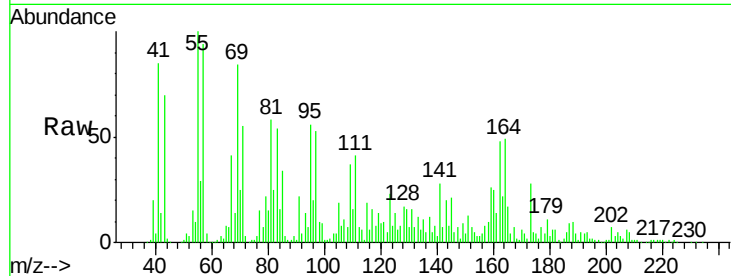
Acq: 12 Mar 2017 7:38

Instrument :

BNA\_F

ClientSampleId :

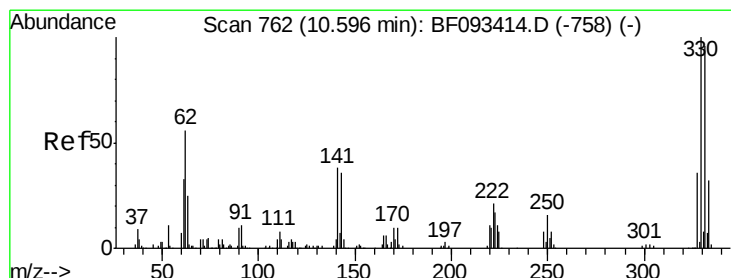
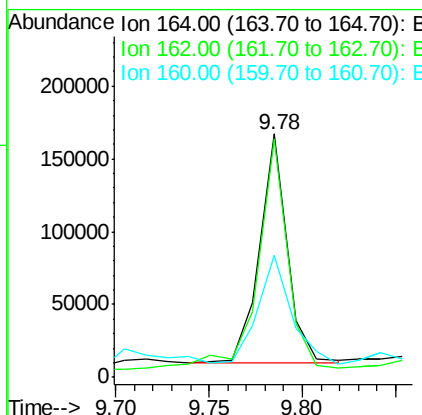
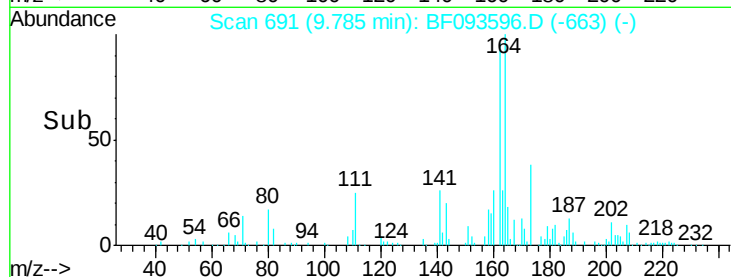
HY-SB412C



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 160418 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 98.1  | 80.2  | 120.2  |
| 160       | 50.0  | 36.9  | 55.3   |

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#41

2,4,6-Tribromophenol

Concen: 145.21 ng

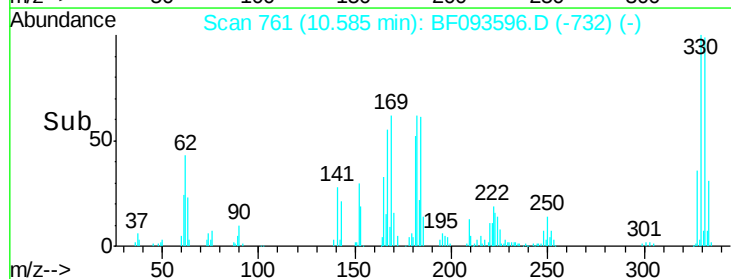
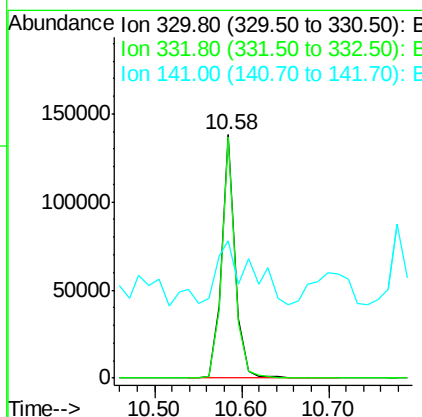
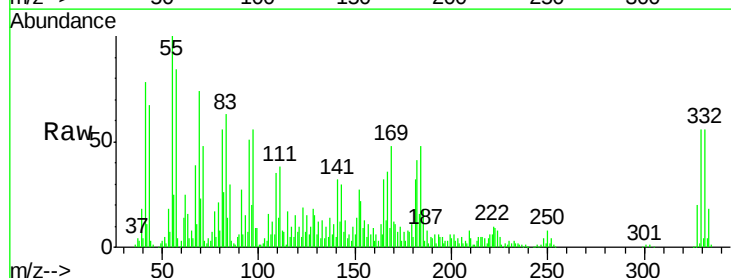
RT: 10.58 min Scan# 761

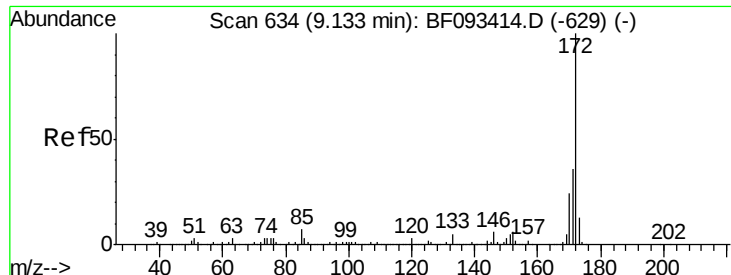
Delta R.T. 0.03 min

Lab File: BF093596.D

Acq: 12 Mar 2017 7:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 151769 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.9  | 77.4  | 116.2  |
| 141       | 63.0  | 34.1  | 51.1#  |





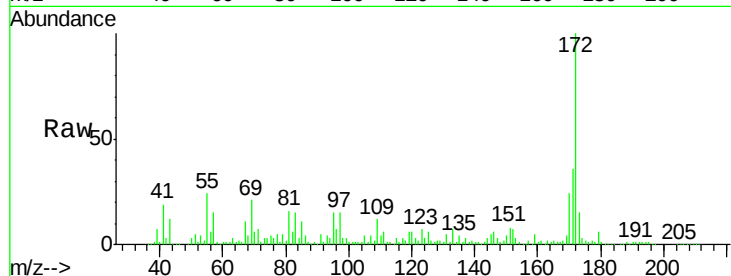
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2-Fluorobiphenyl  
Concen: 130.10 ng  
RT: 9.10 min Scan# 631  
Delta R.T. 0.01 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

Instrument :  
BNA\_F  
ClientSampled :  
HY-SB412C

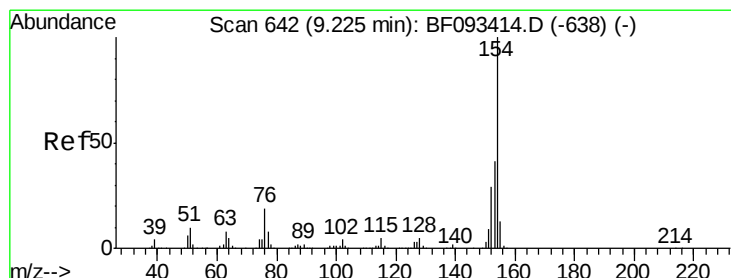
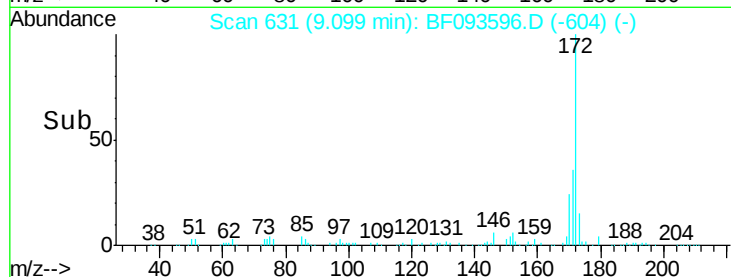
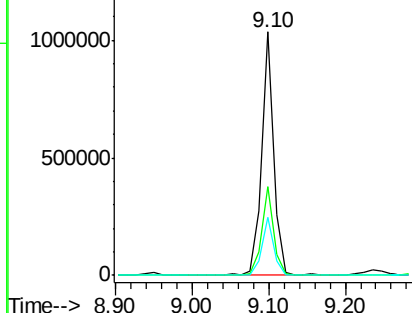
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.4  | 44.0  |
| 170     | 23.7  | 20.2  | 30.4  |

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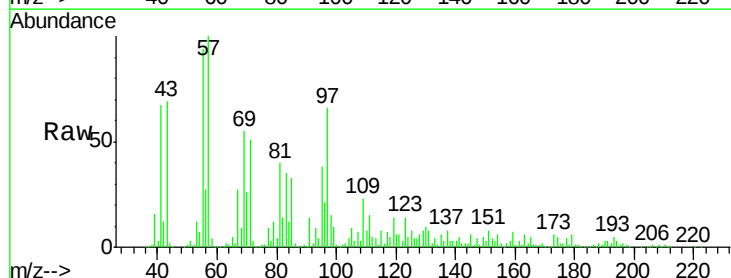


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

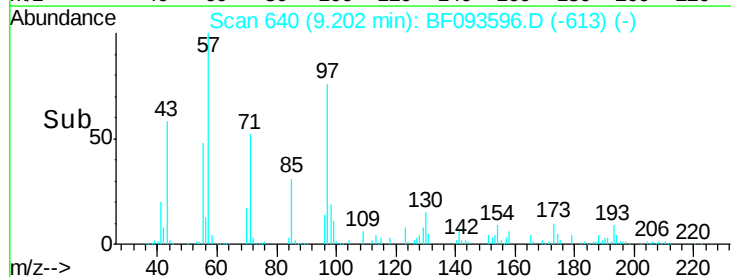
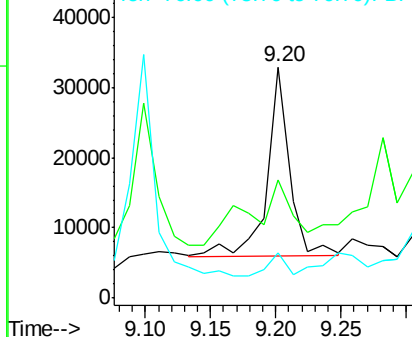


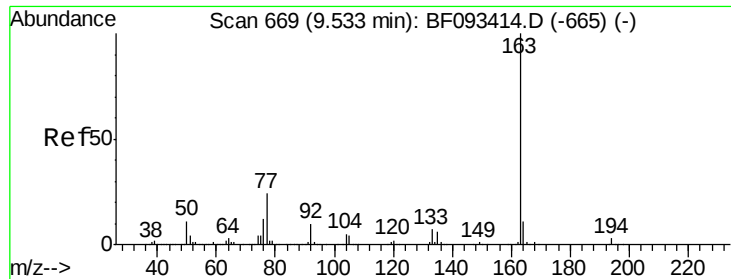
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1,1'-Biphenyl  
Concen: 2.83 ng  
RT: 9.20 min Scan# 640  
Delta R.T. 0.01 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 51.3  | 20.9  | 60.9  |
| 76      | 19.5  | 0.0   | 30.5  |



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF0





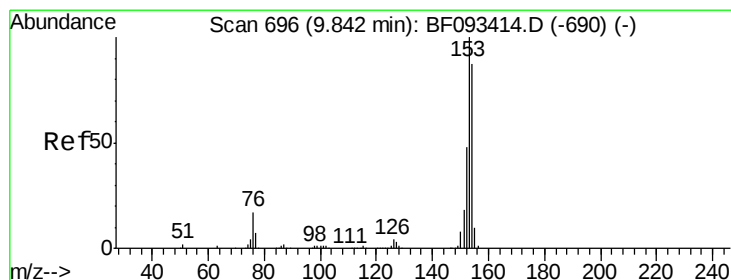
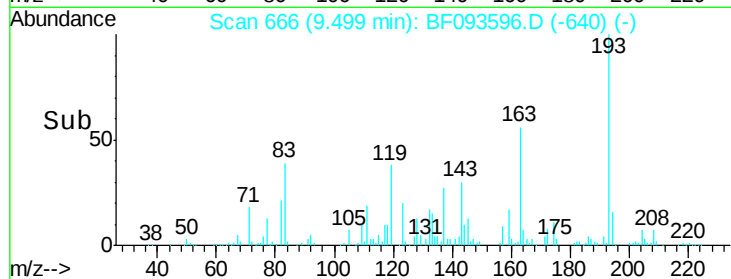
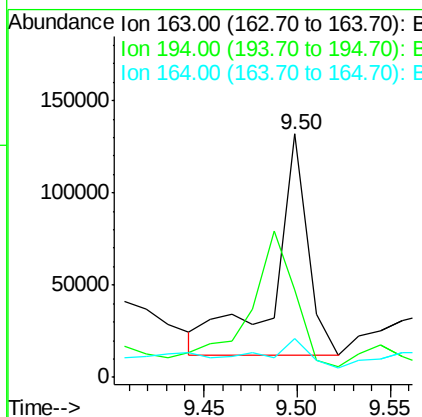
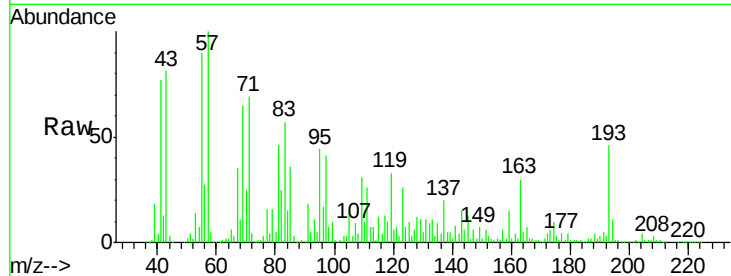
#49  
Dimethylphthalate  
Concen: 14.20 ng  
RT: 9.50 min Scan# 666  
Delta R.T. -0.00 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

Instrument :  
BNA\_F  
ClientSampleId :  
HY-SB412C

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 151034 |       |       |
| 194     | 35.8  | 3.0    | 4.4#  |       |
| 164     | 16.1  | 8.0    | 12.0# |       |

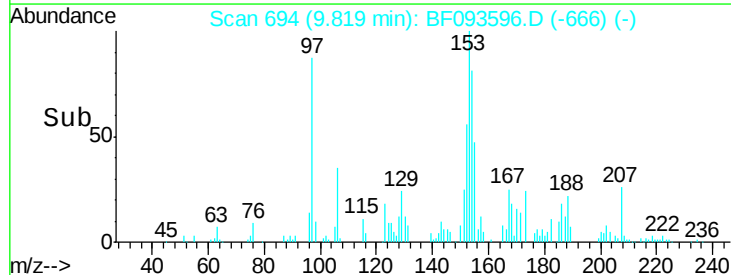
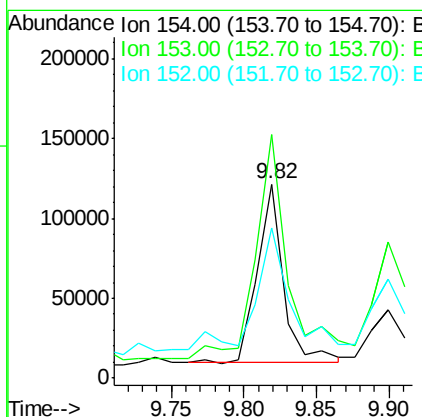
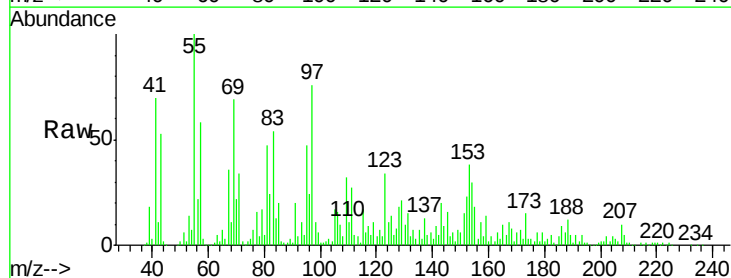
Manual Integrations  
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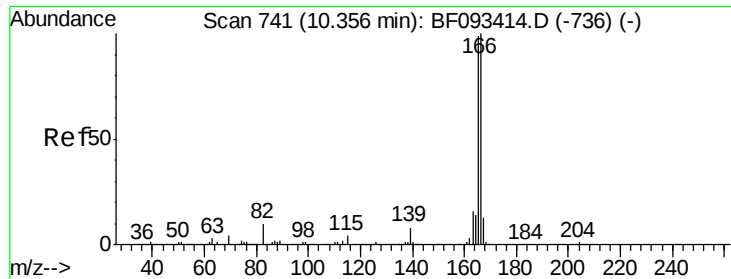
mohammad  
3/15/2017 5:35:07 PM



#51  
Acenaphthene  
Concen: 16.13 ng  
RT: 9.82 min Scan# 694  
Delta R.T. 0.02 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 140738 |       |       |
| 153     | 125.5 | 88.6   | 133.0 |       |
| 152     | 77.1  | 41.6   | 62.4# |       |





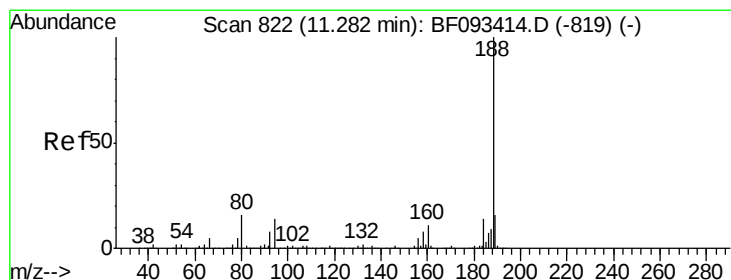
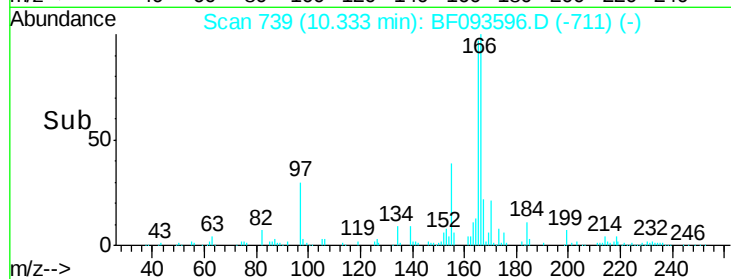
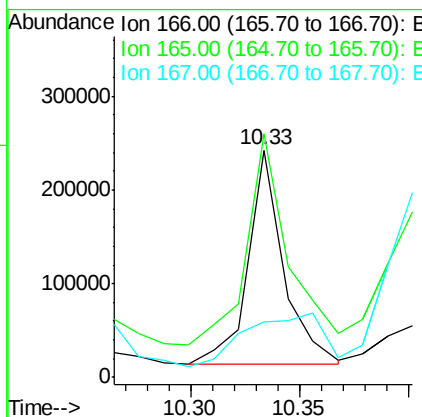
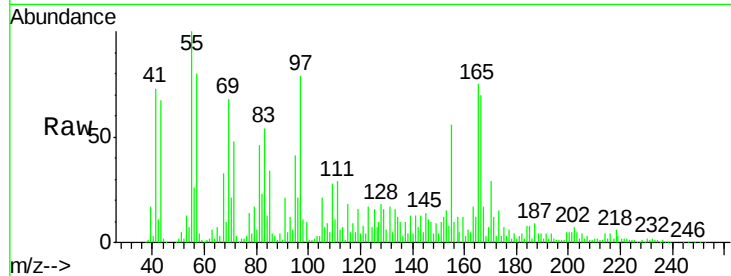
#57  
**Fluorene**  
 Concen: 28.09 ng  
 RT: 10.33 min Scan# 739  
 Delta R.T. 0.02 min  
 Lab File: BF093596.D  
 Acq: 12 Mar 2017 7:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HY-SB412C

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 259877 |       |       |
| 165     | 107.0 | 77.8   | 116.8 |       |
| 167     | 24.4  | 10.8   | 16.2# |       |

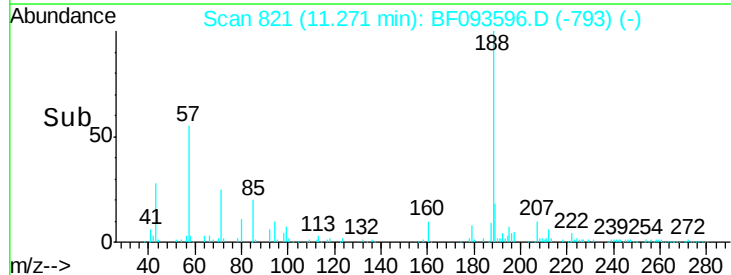
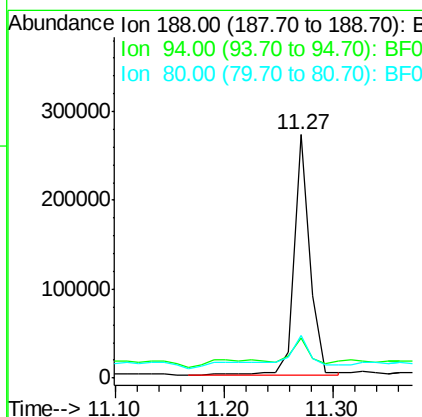
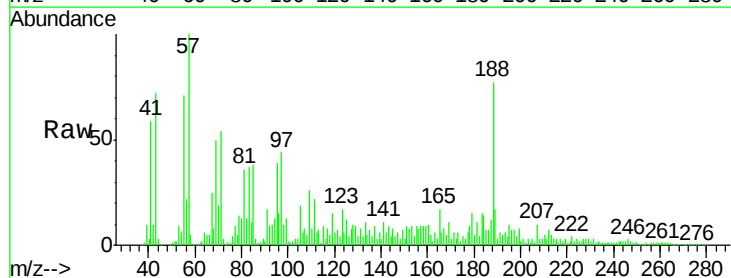
Manual Integrations  
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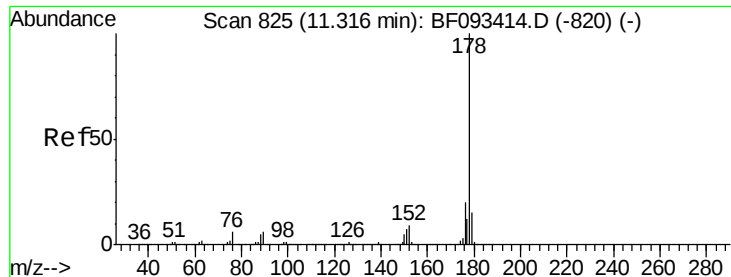
mohammad  
 3/15/2017 5:35:07 PM



#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 11.27 min Scan# 821  
 Delta R.T. 0.02 min  
 Lab File: BF093596.D  
 Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 276597 |       |       |
| 94      | 16.4  | 10.0   | 15.0# |       |
| 80      | 17.3  | 11.2   | 16.8# |       |





#70

Phenanthrene

Concen: 40.11 ng

RT: 11.29 min Scan# 823

Delta R.T. 0.02 min

Lab File: BF093596.D

Acq: 12 Mar 2017 7:38

Instrument :

BNA\_F

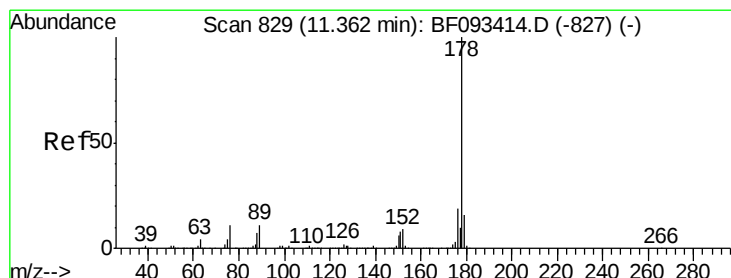
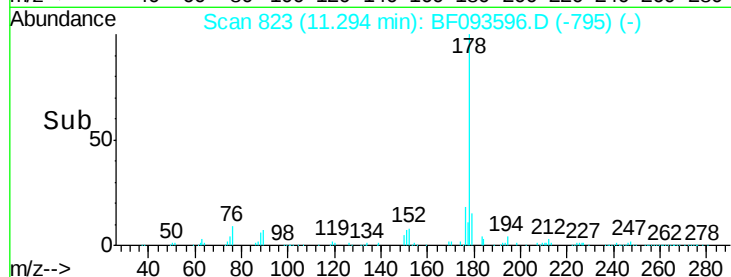
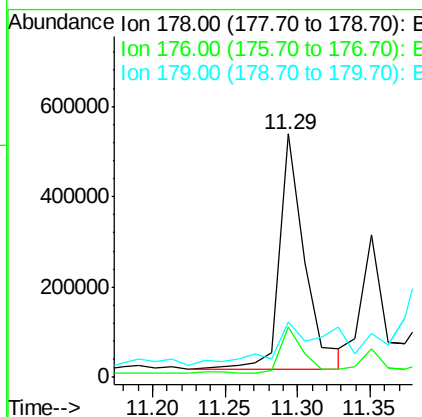
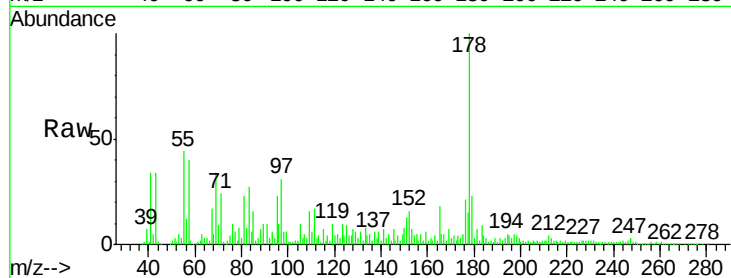
ClientSampleId :

HY-SB412C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.6  | 16.6  | 25.0  |
| 179     | 22.8  | 12.8  | 19.2  |

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#71

Anthracene

Concen: 13.42 ng

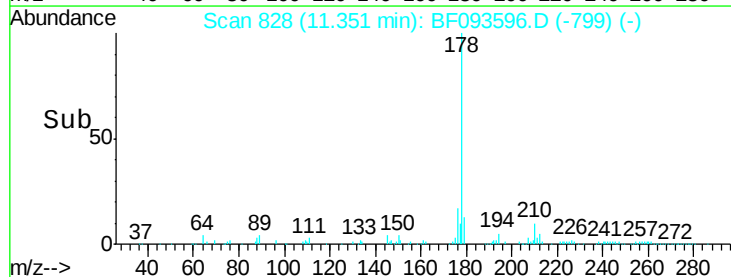
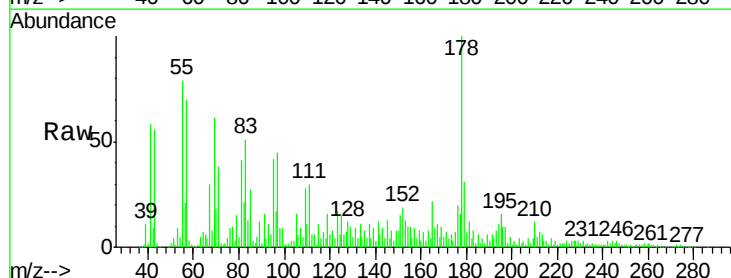
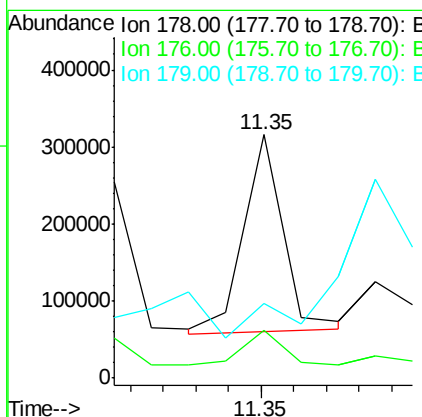
RT: 11.35 min Scan# 828

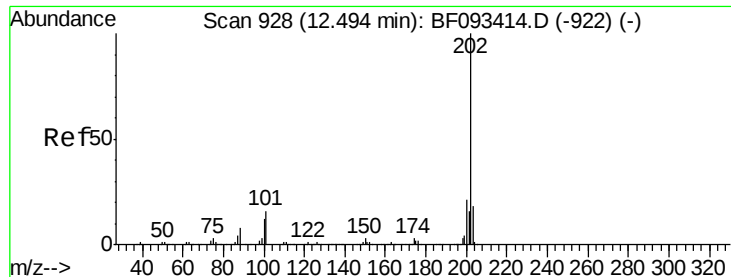
Delta R.T. 0.03 min

Lab File: BF093596.D

Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 15.9  | 23.9  |
| 179     | 30.7  | 13.2  | 19.8  |





#74

Fluoranthene

Concen: 78.82 ng

RT: 12.48 min Scan# 927

Delta R.T. 0.02 min

Lab File: BF093596.D

Acq: 12 Mar 2017 7:38

Instrument :

BNA\_F

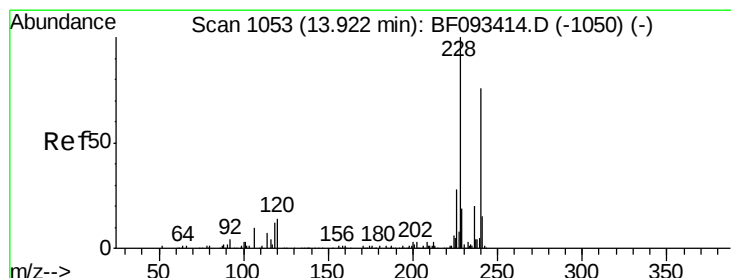
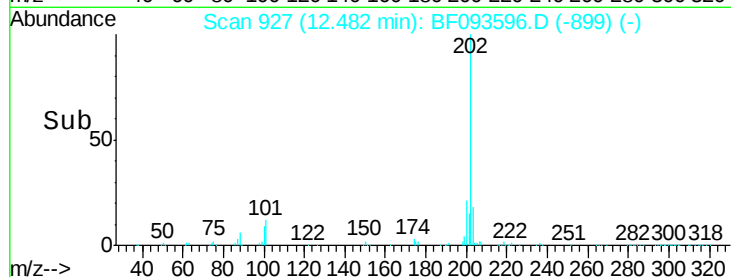
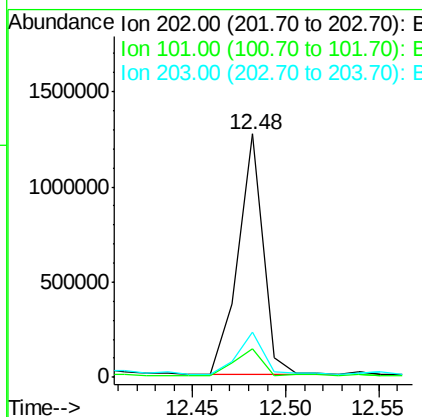
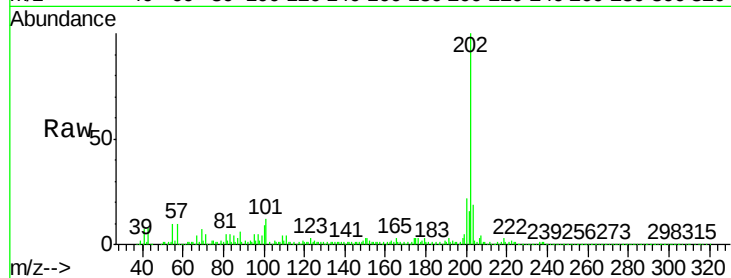
ClientSampleId :

HY-SB412C

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 202   | Resp: | 1202096 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 11.9  | 0.0   | 34.6    |
| 203      | 18.5  | 0.0   | 38.7    |

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#75

Chrysene-d12

Concen: 20.00 ng

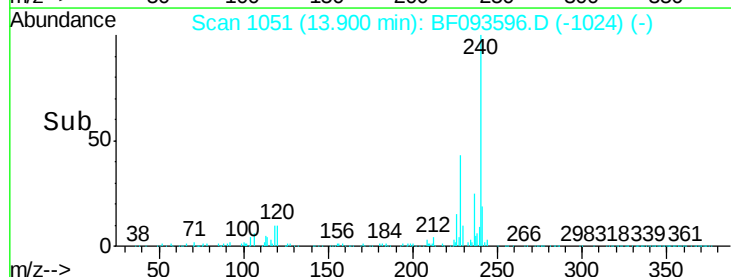
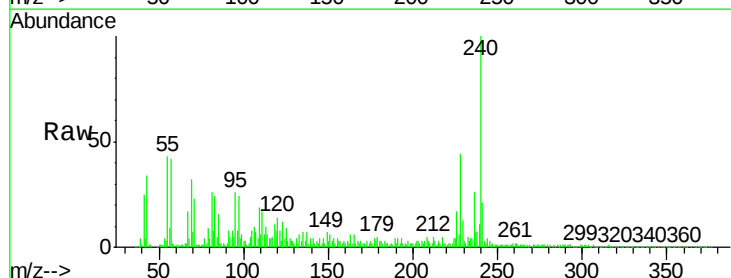
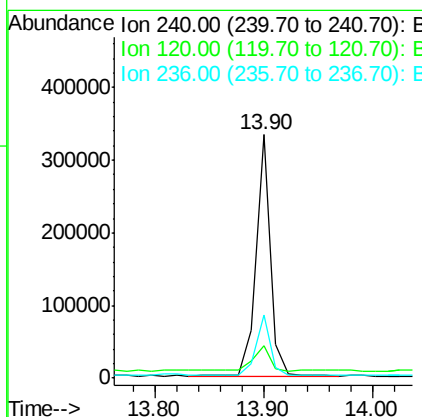
RT: 13.90 min Scan# 1051

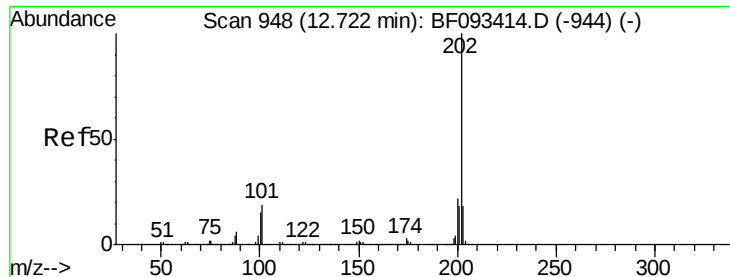
Delta R.T. 0.01 min

Lab File: BF093596.D

Acq: 12 Mar 2017 7:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 306738 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 13.6  | 12.9  | 19.3   |
| 236      | 26.1  | 20.9  | 31.3   |





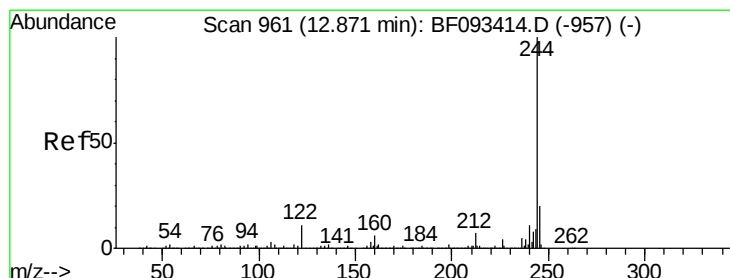
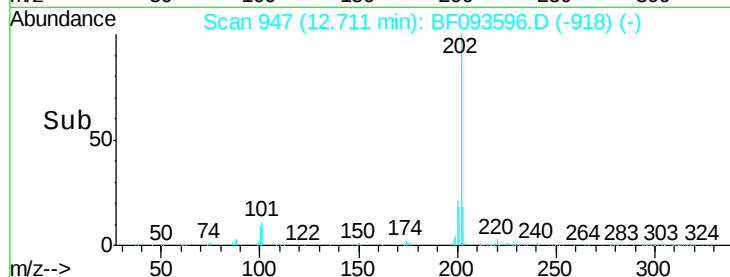
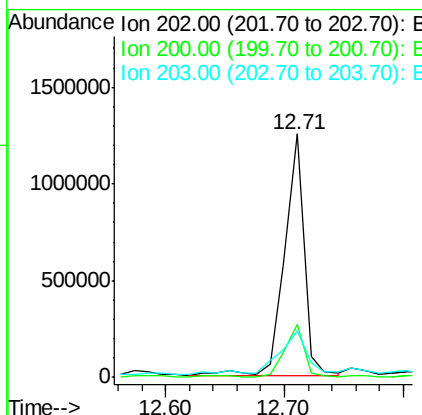
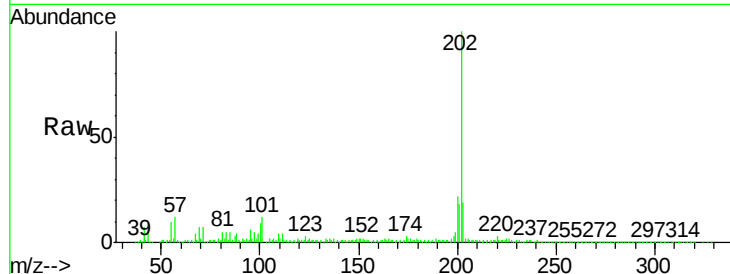
#77  
 Pyrene  
 Concen: 62.77 ng  
 RT: 12.71 min Scan# 947  
 Delta R.T. 0.03 min  
 Lab File: BF093596.D  
 Acq: 12 Mar 2017 7:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HY-SB412C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.5  | 17.7  | 26.5  |
| 203     | 19.1  | 14.7  | 22.1  |

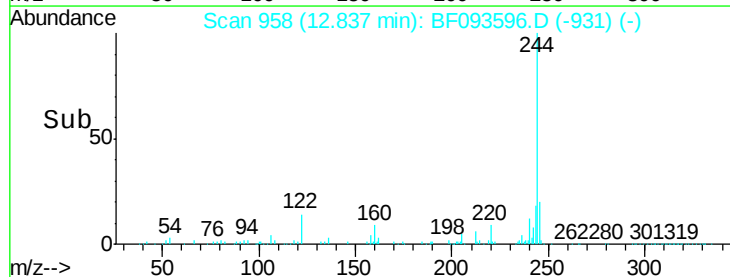
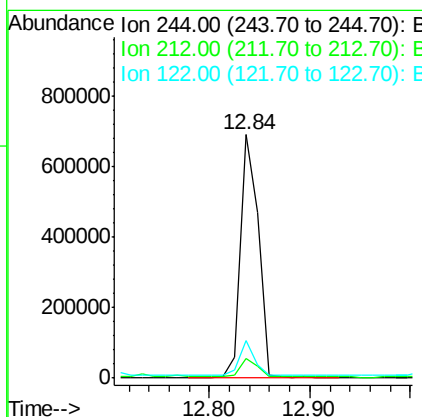
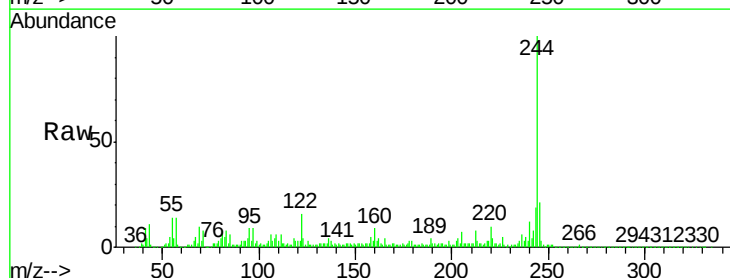
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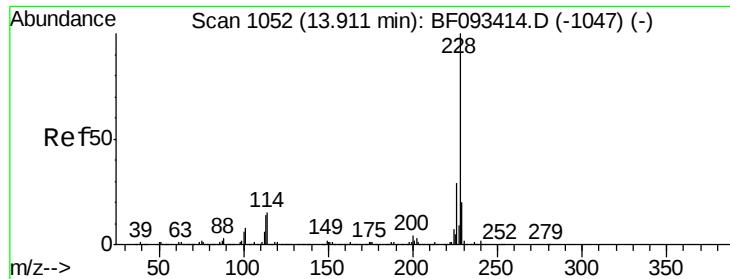
mohammad  
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#78  
 Terphenyl-d14  
 Concen: 71.49 ng  
 RT: 12.84 min Scan# 958  
 Delta R.T. 0.01 min  
 Lab File: BF093596.D  
 Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.3   | 6.2   | 9.2   |
| 122     | 15.7  | 11.4  | 17.2  |





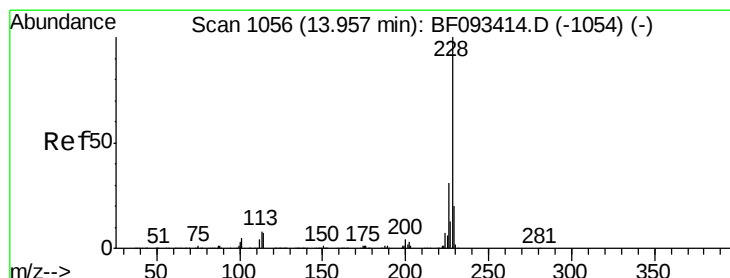
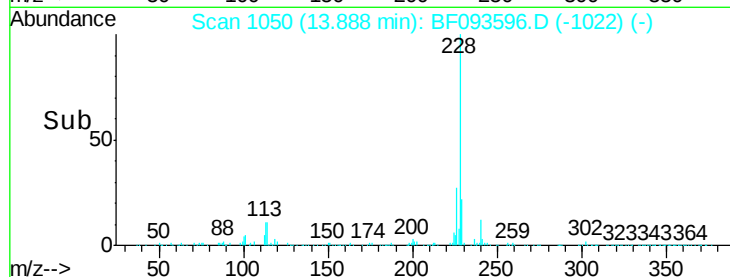
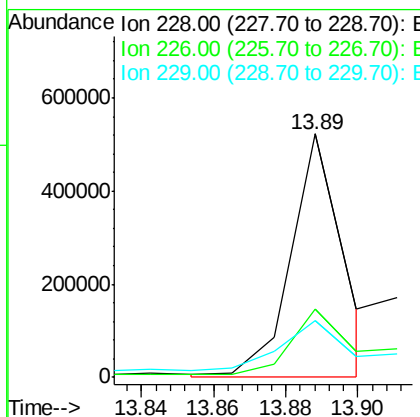
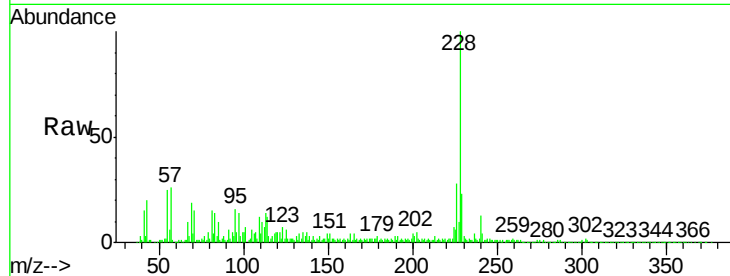
#80  
Benzo(a)anthracene  
Concen: 29.03 ng m  
RT: 13.89 min Scan# 1050  
Delta R.T. 0.02 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

Instrument :  
BNA\_F  
ClientSampleId :  
HY-SB412C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.8  | 22.4  | 33.6  |
| 229     | 23.4  | 16.2  | 24.4  |

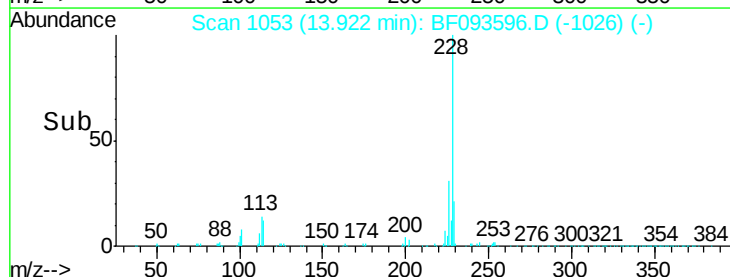
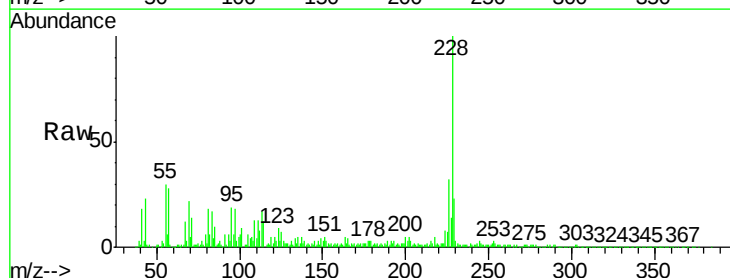
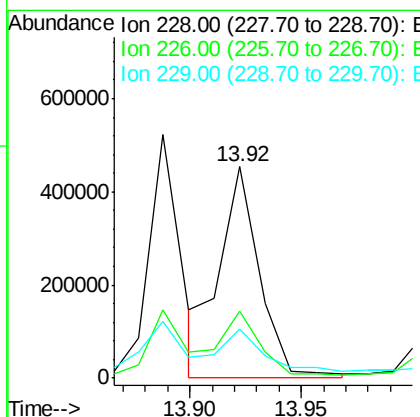
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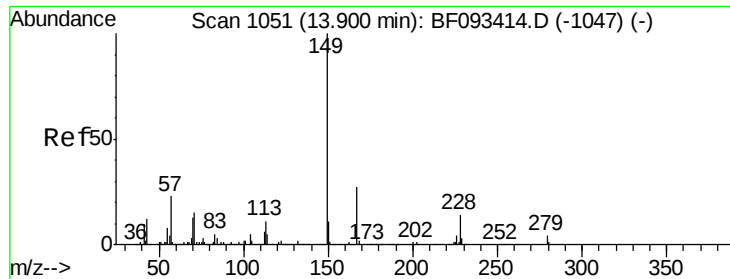
mohammad  
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#82  
Chrysene  
Concen: 33.52 ng m  
RT: 13.92 min Scan# 1053  
Delta R.T. 0.01 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.6  | 25.4  | 38.0  |
| 229     | 23.1  | 16.2  | 24.2  |





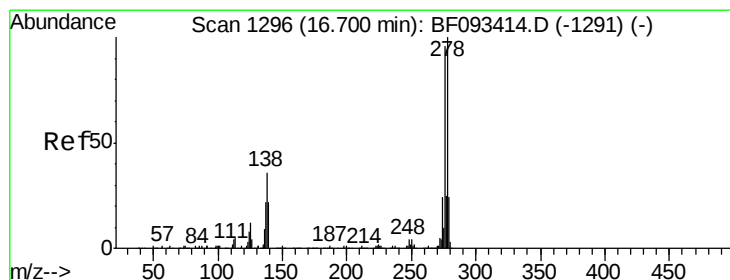
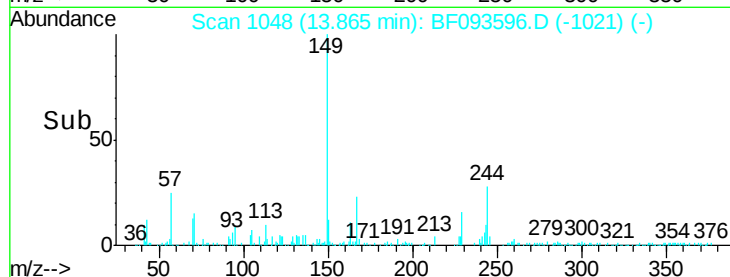
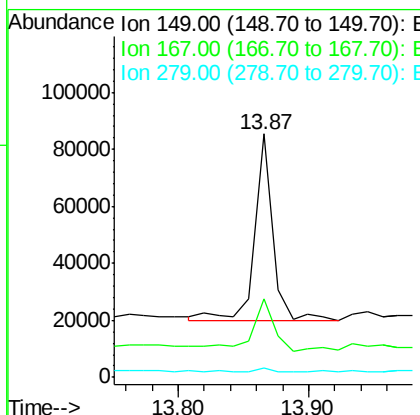
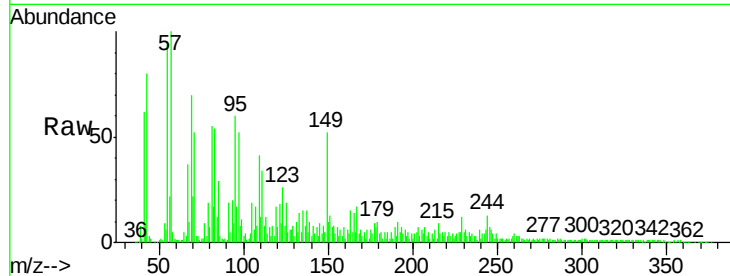
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 5.01 ng  
 RT: 13.87 min Scan# 1048  
 Delta R.T. 0.01 min  
 Lab File: BF093596.D  
 Acq: 12 Mar 2017 7:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HY-SB412C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 32.1  | 20.2  | 30.4# |
| 279     | 3.9   | 1.8   | 2.8#  |

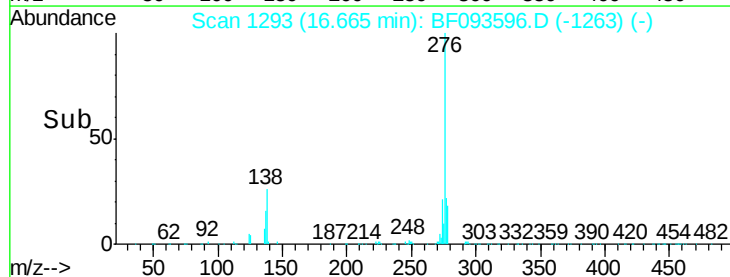
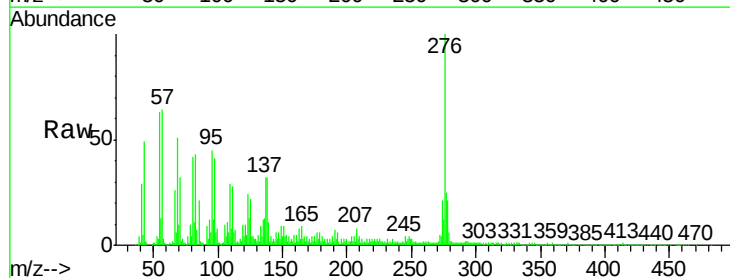
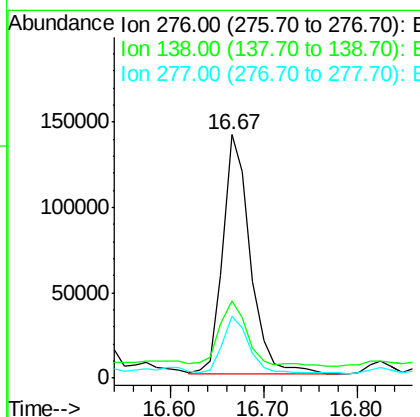
Manual Integrations  
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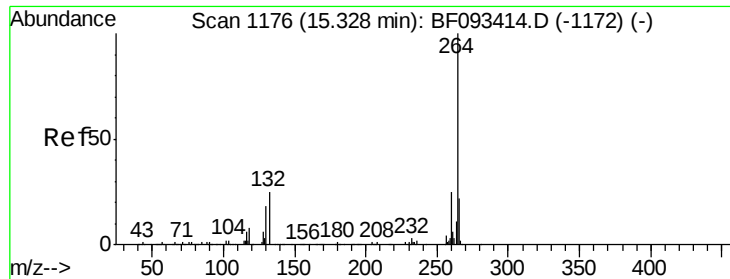
mohammad  
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#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 20.46 ng  
 RT: 16.67 min Scan# 1293  
 Delta R.T. 0.05 min  
 Lab File: BF093596.D  
 Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.1  | 21.8  | 32.6  |
| 277     | 23.3  | 20.2  | 30.4  |





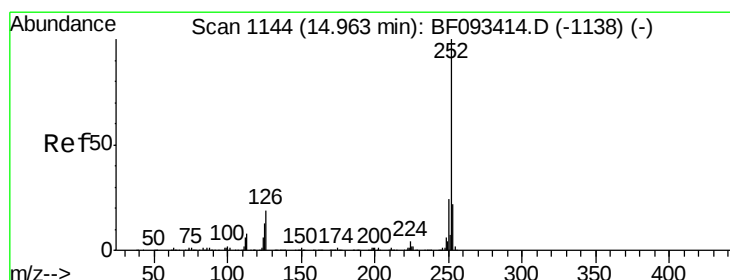
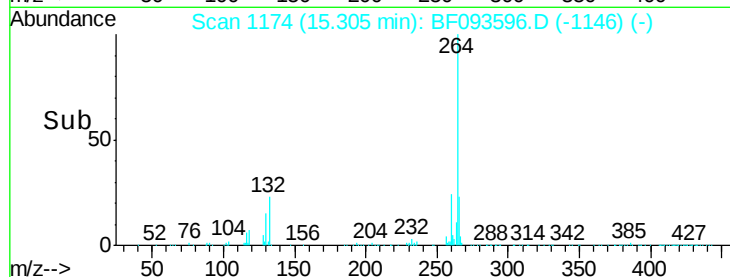
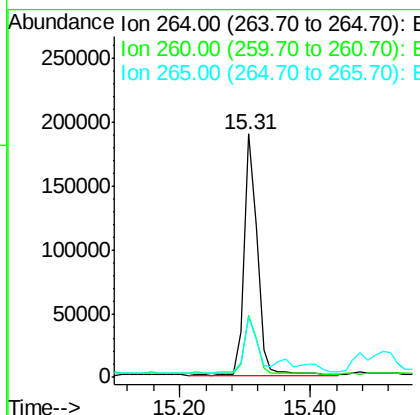
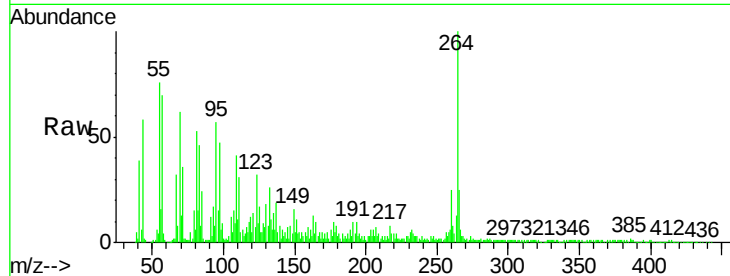
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.31 min Scan# 1174  
Delta R.T. 0.02 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

Instrument :  
BNA\_F  
ClientSampled :  
HY-SB412C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.5  | 19.2  | 28.8  |
| 265     | 24.7  | 17.4  | 26.0  |

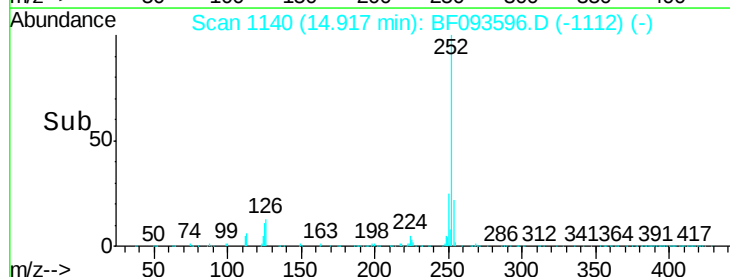
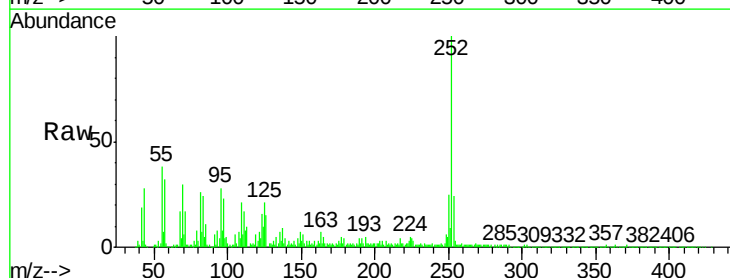
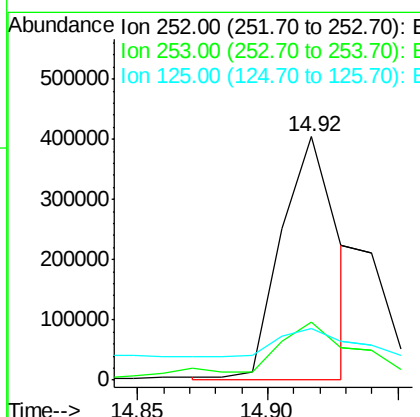
Manual Integrations  
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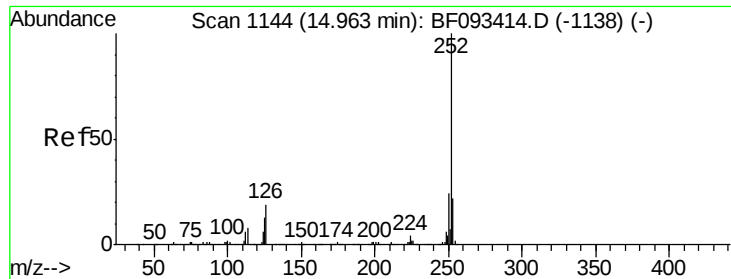
mohammad  
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#87  
Benzo(b)fluoranthene  
Concen: 38.78 ng m  
RT: 14.92 min Scan# 1140  
Delta R.T. 0.02 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 18.2  | 27.4  |
| 125     | 21.2  | 9.8   | 14.6  |





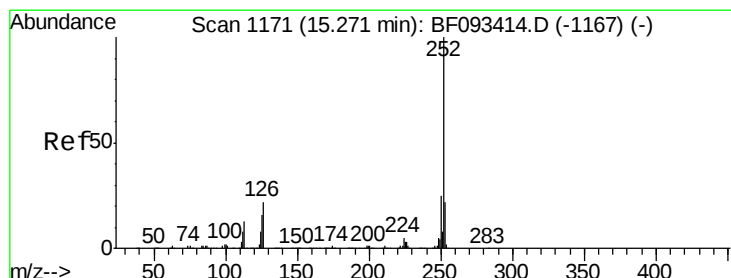
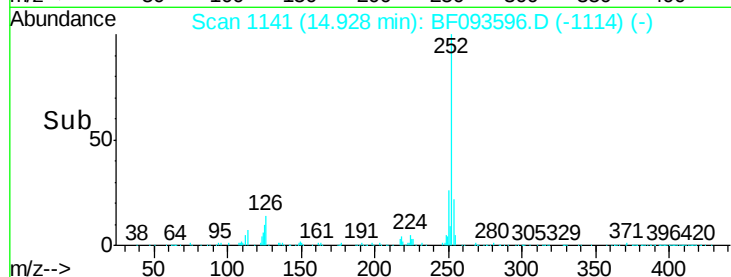
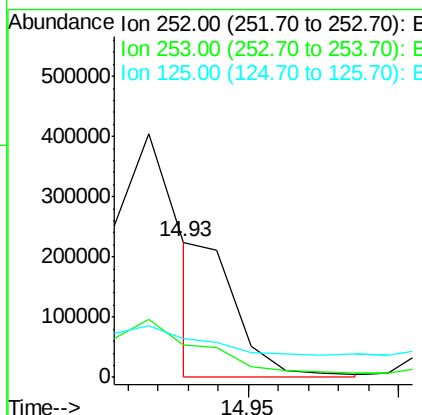
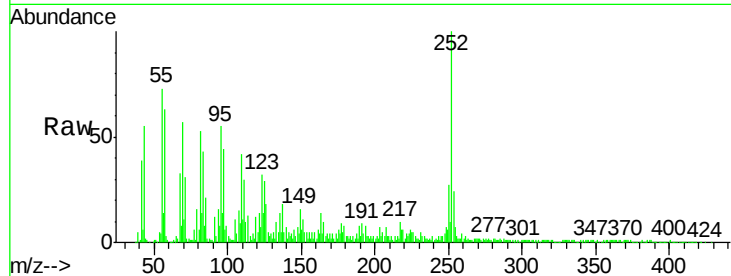
#88  
Benzo(k)fluoranthene  
Concen: 12.81 ng m  
RT: 14.93 min Scan# 1141  
Delta R.T. 0.01 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

Instrument :  
BNA\_F  
ClientSampleId :  
HY-SB412C

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 196217 |       |       |
| 253     | 23.8  | 18.5   | 27.7  |       |
| 125     | 28.6  | 8.9    | 13.3  |       |

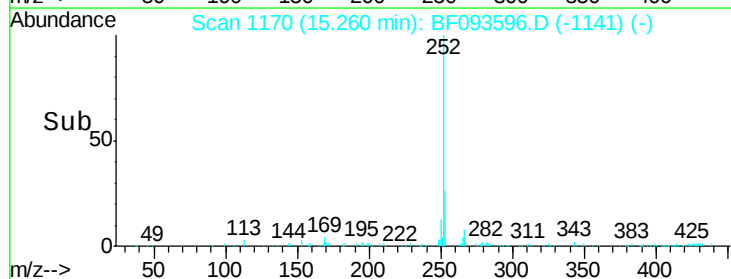
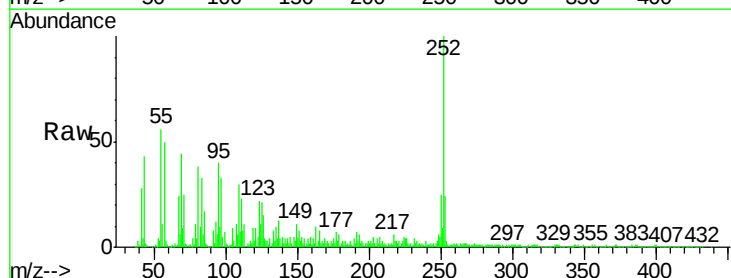
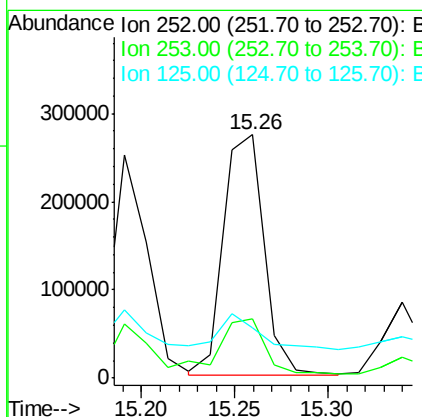
Manual Integrations  
APPROVED

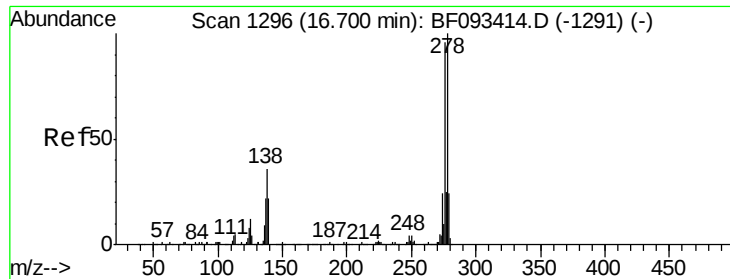
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#89  
Benzo(a)pyrene  
Concen: 28.53 ng  
RT: 15.26 min Scan# 1170  
Delta R.T. 0.03 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 414273 |       |       |
| 253     | 24.2  | 18.2   | 27.2  |       |
| 125     | 20.6  | 10.0   | 15.0  |       |





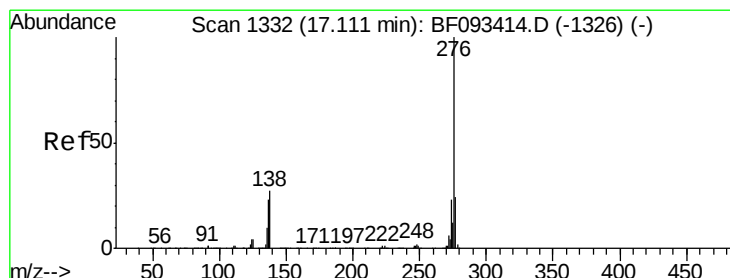
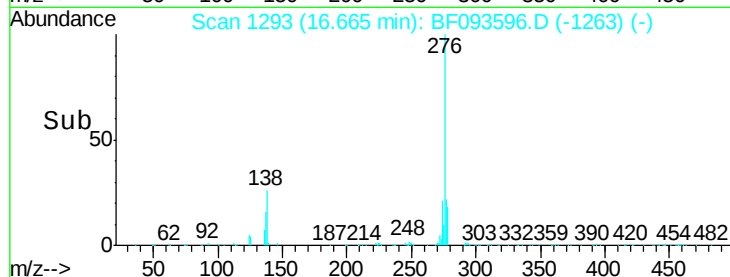
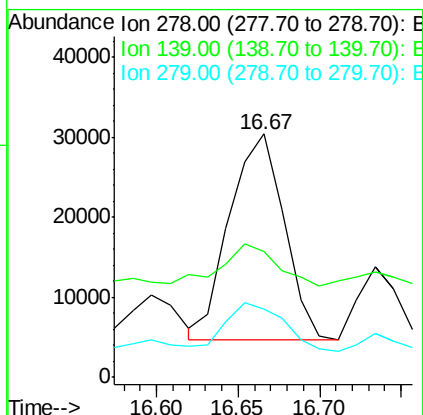
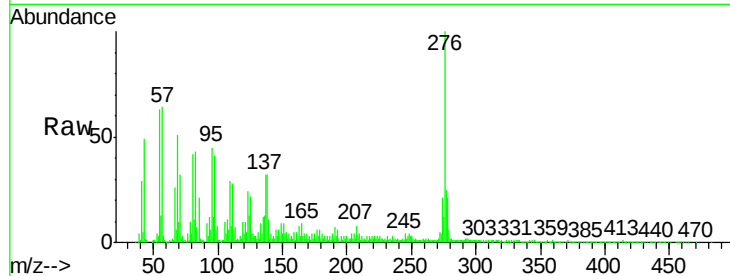
#90  
Dibenzo(a,h)anthracene  
Concen: 4.96 ng  
RT: 16.67 min Scan# 1293  
Delta R.T. 0.05 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

Instrument :  
BNA\_F  
ClientSampleId :  
HY-SB412C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 51.9  | 14.8  | 22.2# |
| 279     | 27.8  | 19.8  | 29.6  |

Manual Integrations  
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#91  
Benzo(g,h,i)perylene  
Concen: 23.26 ng  
RT: 17.08 min Scan# 1329  
Delta R.T. 0.06 min  
Lab File: BF093596.D  
Acq: 12 Mar 2017 7:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.2  | 19.2  | 28.8  |
| 138     | 31.0  | 16.0  | 24.0# |

