

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092916\  
 Data File : BF090298.D  
 Acq On : 29 Sep 2016 19:16  
 Operator : UM/SJ  
 Sample : H4982-11  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-32

Manual Integrations  
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 9/30/2016 4:00:37 PM

Quant Time: Sep 30 01:07:32 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 26 15:58:38 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.46  | 152  | 139345   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 7.75  | 136  | 521565   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.50  | 164  | 264570   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 10.97 | 188  | 348481   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.59 | 240  | 261468   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 14.91 | 264  | 196145   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.03  | 112  | 1002844  | 117.31 | ng    | 0.00     |
| 7) Phenol-d6                | 6.12  | 99   | 1185784  | 112.32 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.04  | 82   | 777112   | 86.37  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.28 | 330  | 208949   | 92.06  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.83  | 172  | 1081915  | 80.28  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.56 | 244  | 731177   | 71.00  | ng    | 0.00     |

| Target Compounds         | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------|-------|------|----------|-------|-------|--------|
| 49) Dimethylphthalate    | 9.23  | 163  | 361776   | 21.47 | ng    | # 98   |
| 70) Phenanthrene         | 10.99 | 178  | 73733    | 4.52  | ng    | 97     |
| 74) Fluoranthene         | 12.17 | 202  | 71301    | 4.08  | ng    | 92     |
| 77) Pyrene               | 12.39 | 202  | 99808    | 5.58  | ng    | 97     |
| 80) Benzo(a)anthracene   | 13.58 | 228  | 40574    | 2.88  | ng    | # 82   |
| 82) Chrysene             | 13.61 | 228  | 40979m   | 2.99  | ng    |        |
| 87) Benzo(b)fluoranthene | 14.57 | 252  | 41360m   | 3.81  | ng    |        |
| 89) Benzo(a)pyrene       | 14.86 | 252  | 31671    | 3.10  | ng    | # 82   |
| 91) Benzo(g,h,i)perylene | 16.40 | 276  | 18640    | 2.39  | ng    | # 92   |

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

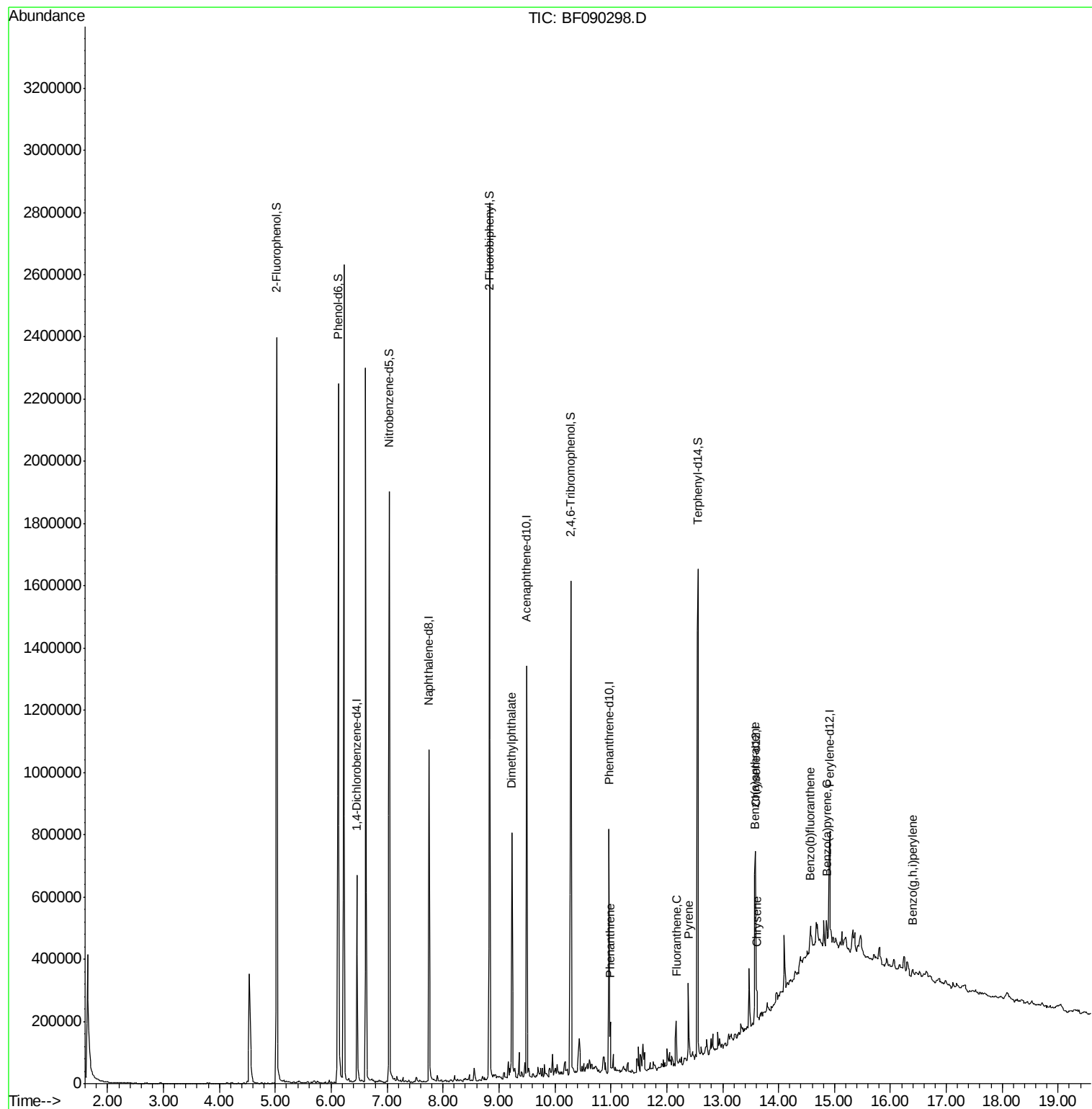
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092916\  
Data File : BF090298.D  
Acq On : 29 Sep 2016 19:16  
Operator : UM/SJ  
Sample : H4982-11  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S-32

Manual Integrations  
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9/30/2016 4:00:37 PM

Quant Time: Sep 30 01:07:32 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Sep 26 15:58:38 2016  
Response via : Initial Calibration





#1

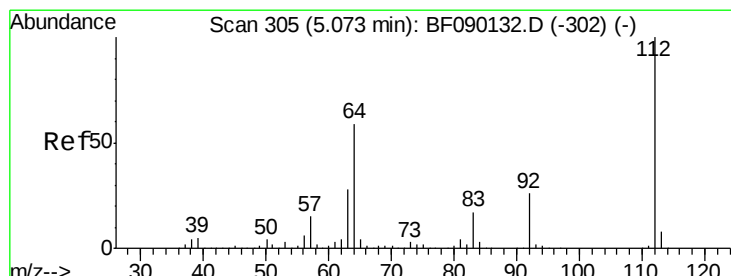
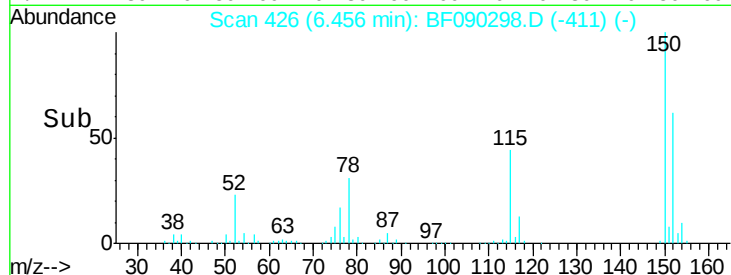
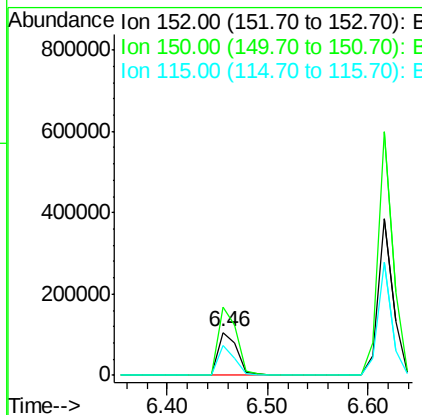
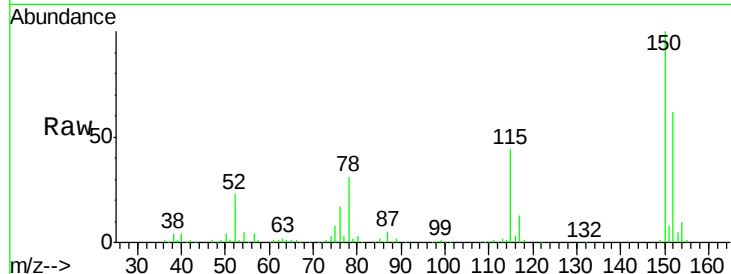
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.46 min Scan# 426  
Delta R.T. -0.02 min  
Lab File: BF090298.D  
Acq: 29 Sep 2016 19:16

Instrument :  
BNA\_F  
ClientSampled :  
S-32

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 139345 |       |       |
| 150     | 160.4 | 128.9  | 193.3 |       |
| 115     | 71.0  | 55.5   | 83.3  |       |

Manual Integrations  
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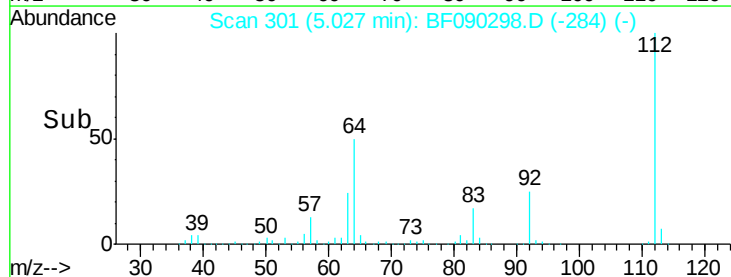
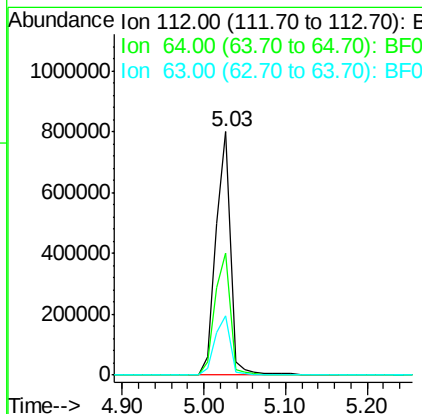
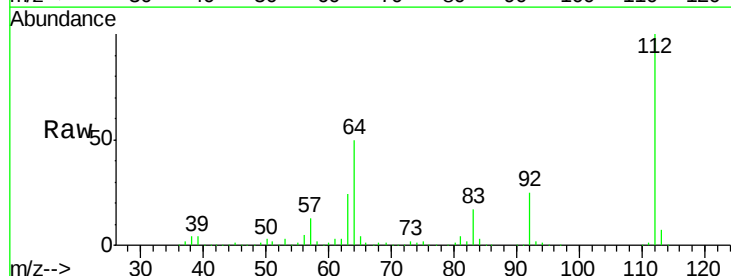
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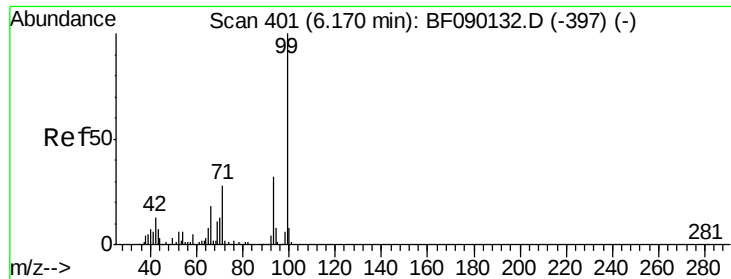


#5

2-Fluorophenol  
Concen: 117.31 ng  
RT: 5.03 min Scan# 301  
Delta R.T. -0.00 min  
Lab File: BF090298.D  
Acq: 29 Sep 2016 19:16

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 112     | 100   | 1002844 |       |       |
| 64      | 49.9  | 39.8    | 59.6  |       |
| 63      | 24.5  | 18.9    | 28.3  |       |





#7

Phenol-d6

Concen: 112.32 ng

RT: 6.12 min Scan# 397

Delta R.T. -0.01 min

Lab File: BF090298.D

Acq: 29 Sep 2016 19:16

Instrument :

BNA\_F

ClientSampleId :

S-32

Tot Ion: 99 Resp: 1185784

Ion Ratio Lower Upper

99 100

42 13.8 10.6 15.8

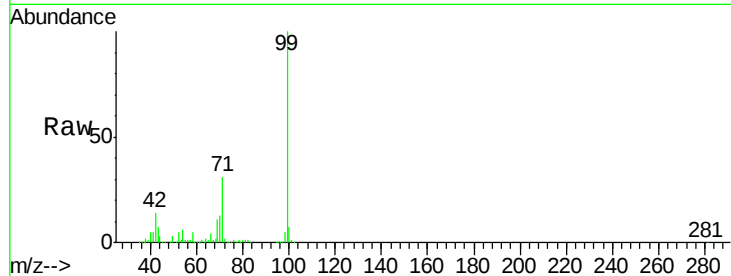
71 30.6 23.0 34.6

Manual Integrations

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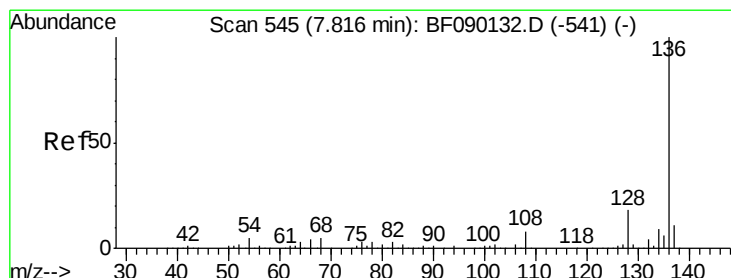
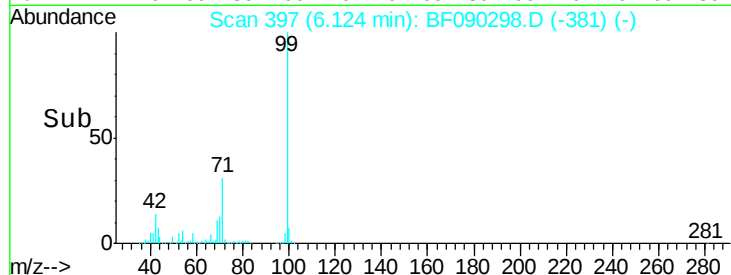
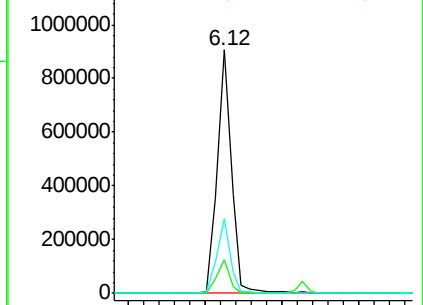
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.75 min Scan# 539

Delta R.T. -0.02 min

Lab File: BF090298.D

Acq: 29 Sep 2016 19:16

Tgt Ion: 136 Resp: 521565

Ion Ratio Lower Upper

136 100

137 11.2 9.0 13.4

54 8.5 6.4 9.6

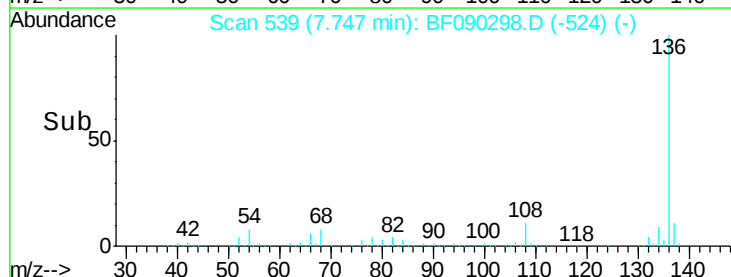
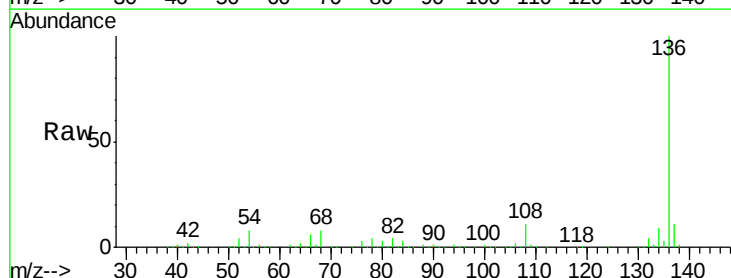
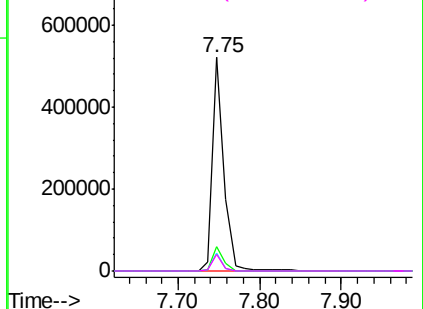
68 7.8 6.3 9.5

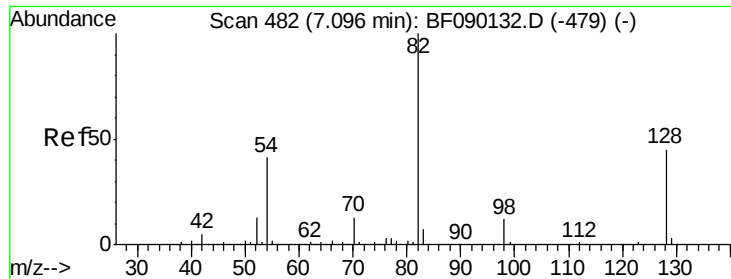
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





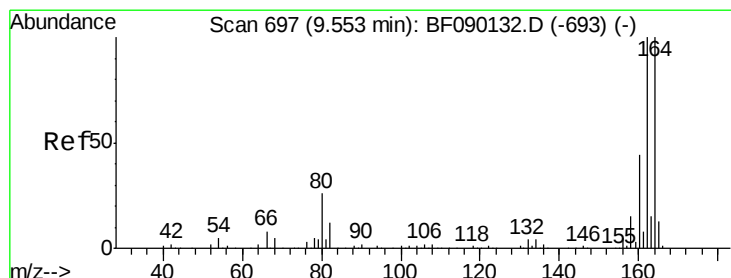
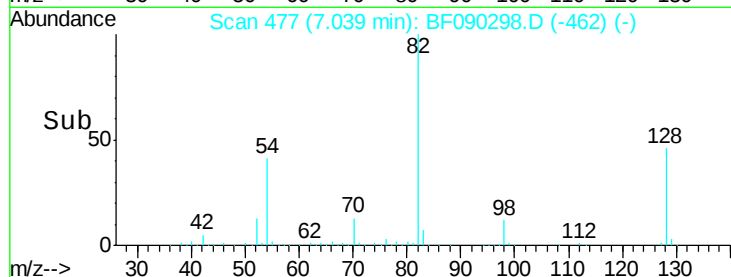
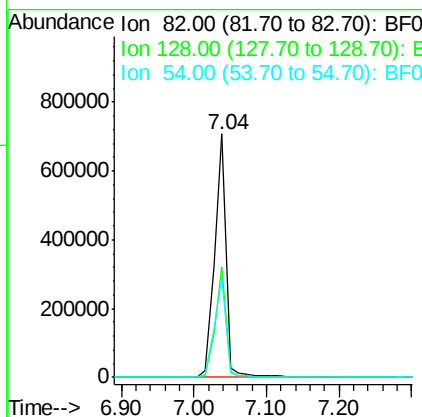
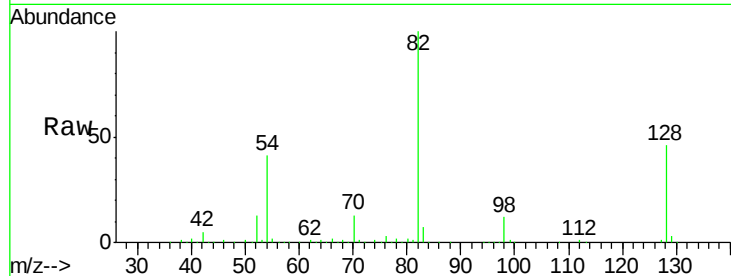
#23  
 Nitrobenzene-d5  
 Concen: 86.37 ng  
 RT: 7.04 min Scan# 477  
 Delta R.T. -0.02 min  
 Lab File: BF090298.D  
 Acq: 29 Sep 2016 19:16

Instrument :  
 BNA\_F  
 ClientSampled :  
 S-32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 777112 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 45.6  | 37.5  | 56.3   |
| 54        | 41.3  | 31.9  | 47.9   |

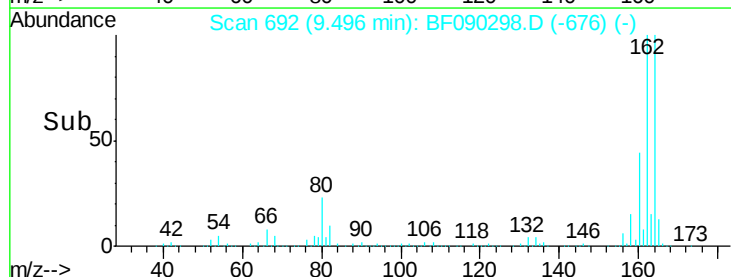
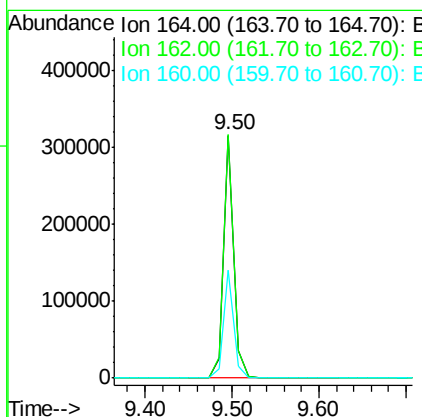
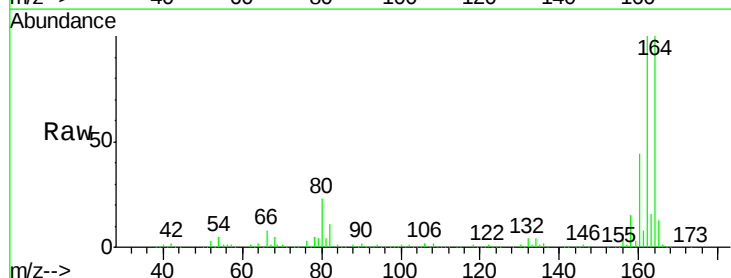
Manual Integrations  
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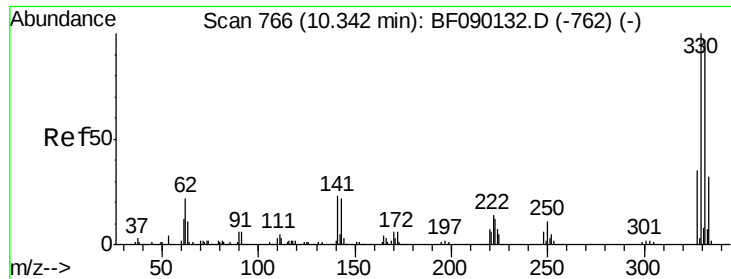
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.50 min Scan# 692  
 Delta R.T. -0.01 min  
 Lab File: BF090298.D  
 Acq: 29 Sep 2016 19:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 264570 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 100.3 | 81.4  | 122.2  |
| 160       | 44.4  | 36.6  | 54.8   |





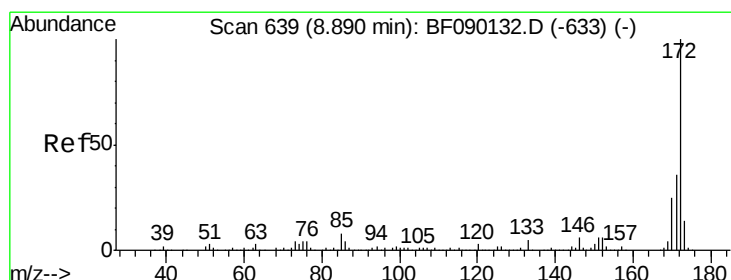
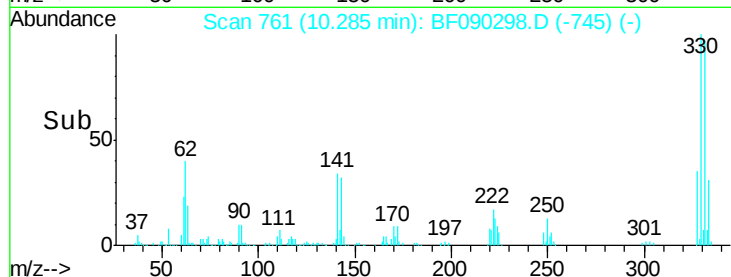
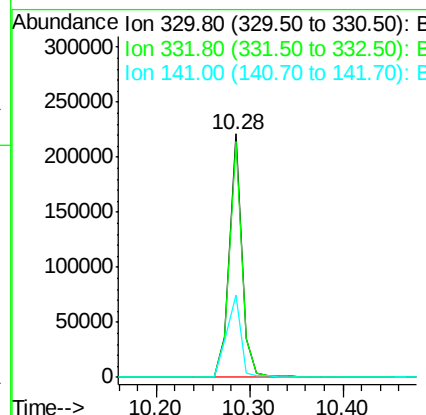
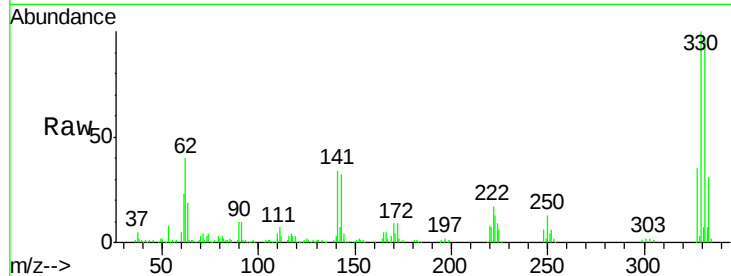
#41  
 2,4,6-Tribromophenol  
 Concen: 92.06 ng  
 RT: 10.28 min Scan# 761  
 Delta R.T. -0.01 min  
 Lab File: BF090298.D  
 Acq: 29 Sep 2016 19:16

Instrument :  
 BNA\_F  
 ClientSampled :  
 S-32

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 208949 |       |       |
| 332     | 97.4  |        | 78.1  | 117.1 |
| 141     | 38.2  |        | 23.9  | 35.9# |

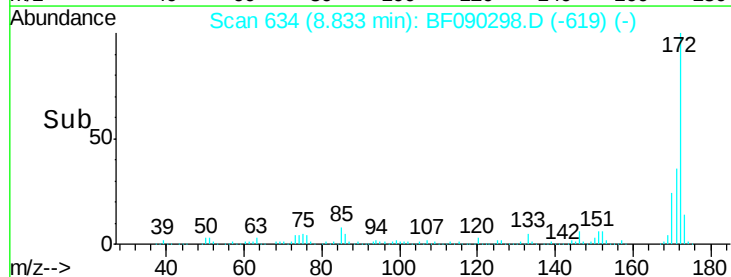
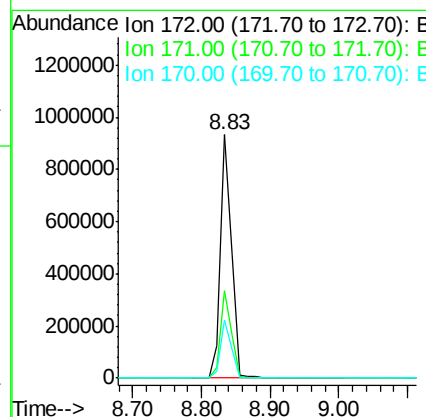
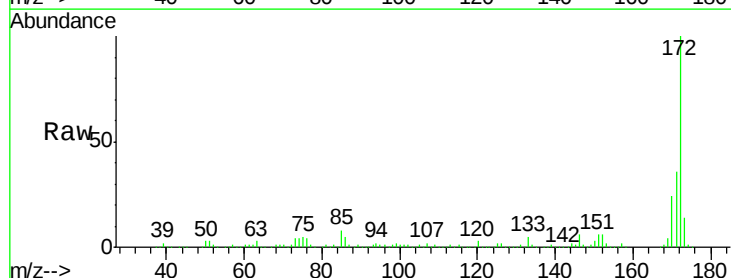
Manual Integrations  
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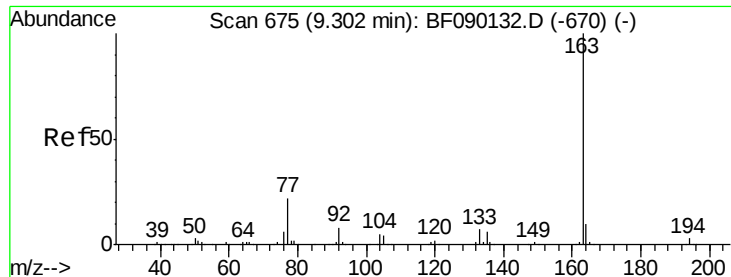
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#44  
 2-Fluorobiphenyl  
 Concen: 80.28 ng  
 RT: 8.83 min Scan# 634  
 Delta R.T. -0.02 min  
 Lab File: BF090298.D  
 Acq: 29 Sep 2016 19:16

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1081915 |       |       |
| 171     | 35.7  |         | 29.2  | 43.8  |
| 170     | 24.0  |         | 19.8  | 29.8  |





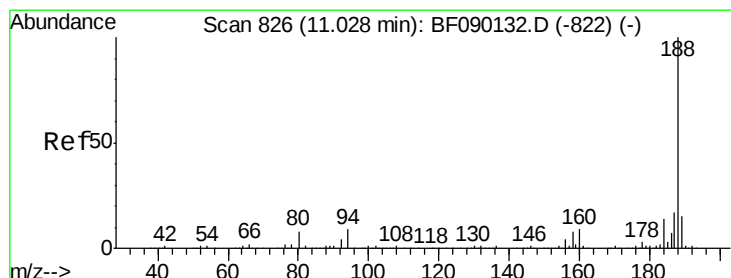
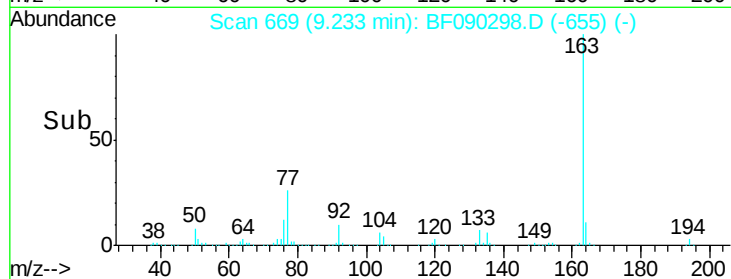
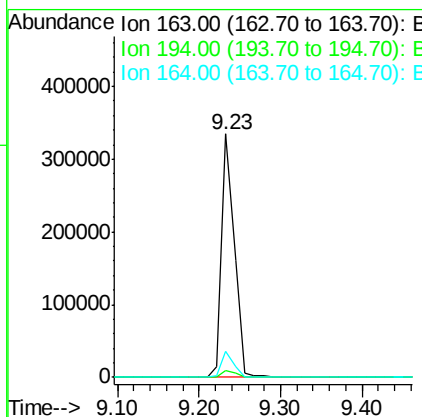
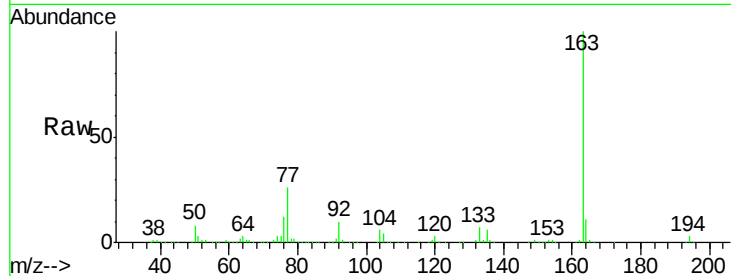
#49  
Dimethylphthalate  
Concen: 21.47 ng  
RT: 9.23 min Scan# 669  
Delta R.T. -0.03 min  
Lab File: BF090298.D  
Acq: 29 Sep 2016 19:16

Instrument :  
BNA\_F  
ClientSampleId :  
S-32

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 361776 |       |       |
| 194     | 2.8   |        | 2.8   | 4.2#  |
| 164     | 10.9  |        | 8.1   | 12.1  |

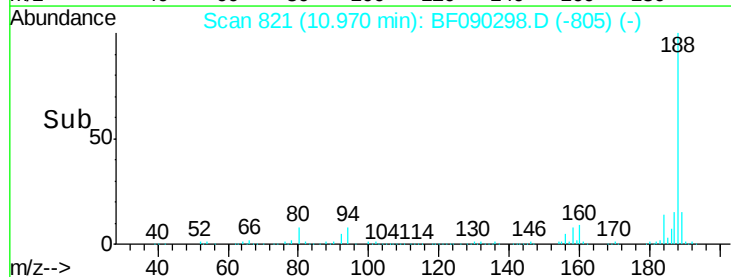
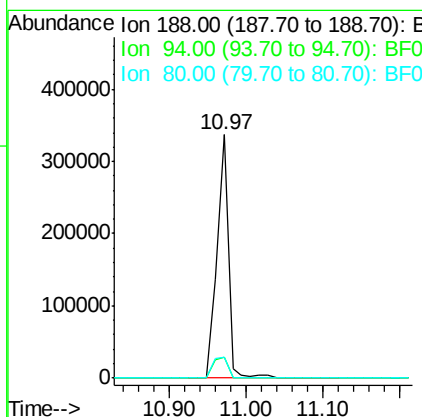
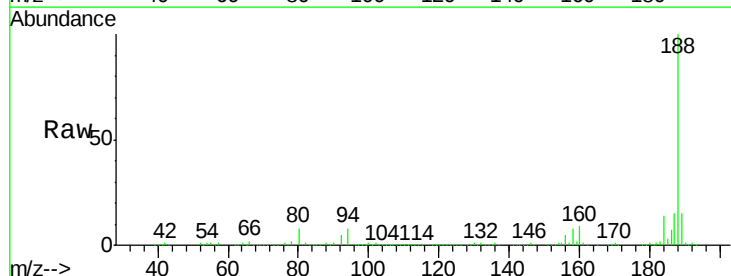
Manual Integrations  
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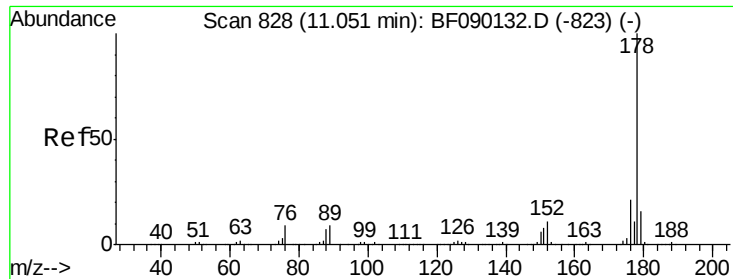
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9/30/2016 4:00:37 PM



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 10.97 min Scan# 821  
Delta R.T. -0.01 min  
Lab File: BF090298.D  
Acq: 29 Sep 2016 19:16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 348481 |       |       |
| 94      | 8.5   |        | 10.5  | 15.7# |
| 80      | 8.4   |        | 11.2  | 16.8# |





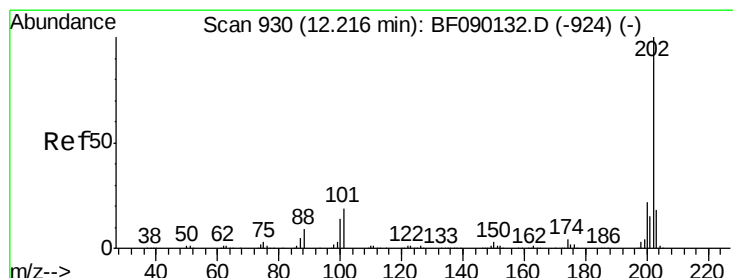
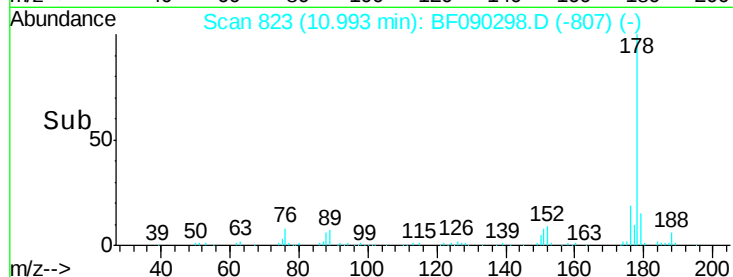
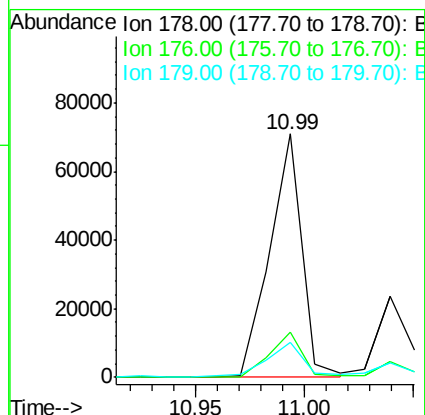
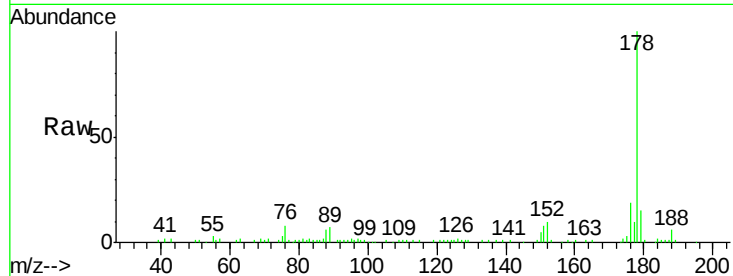
#70  
Phenanthrene  
Concen: 4.52 ng  
RT: 10.99 min Scan# 823  
Delta R.T. -0.01 min  
Lab File: BF090298.D  
Acq: 29 Sep 2016 19:16

Instrument :  
BNA\_F  
ClientSampled :  
S-32

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 15.9  | 23.9  |
| 179     | 14.5  | 12.9  | 19.3  |

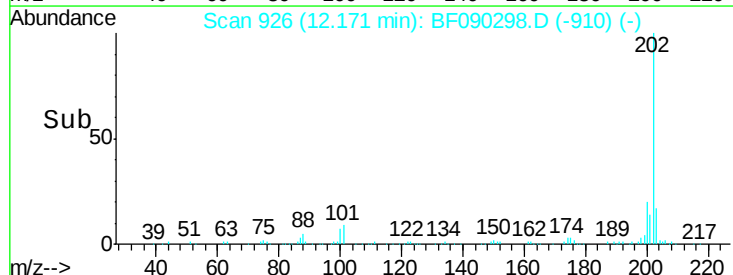
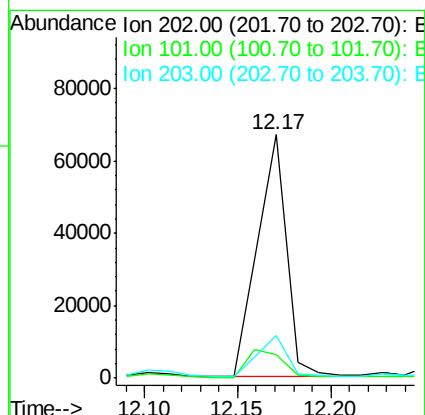
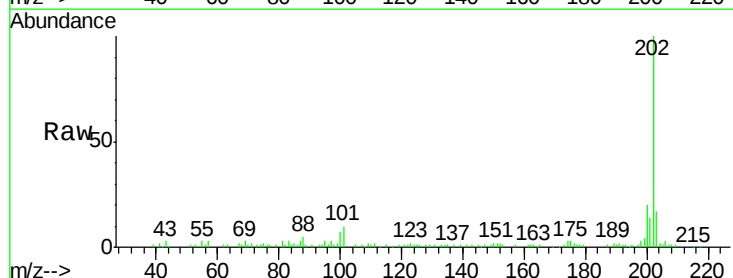
Manual Integrations  
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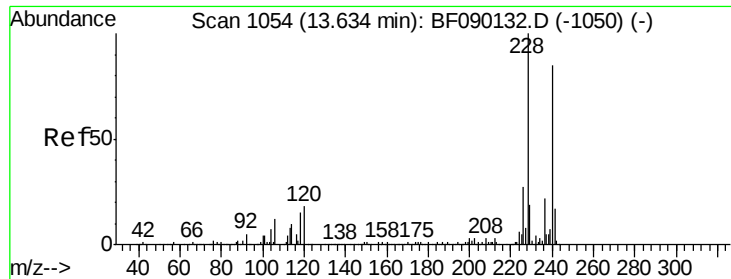
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9/30/2016 4:00:37 PM



#74  
Fluoranthene  
Concen: 4.08 ng  
RT: 12.17 min Scan# 926  
Delta R.T. -0.01 min  
Lab File: BF090298.D  
Acq: 29 Sep 2016 19:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.5   | 0.0   | 36.1  |
| 203     | 17.3  | 0.0   | 38.2  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.59 min Scan# 1050

Delta R.T. -0.01 min

Lab File: BF090298.D

Acq: 29 Sep 2016 19:16

Instrument :

BNA\_F

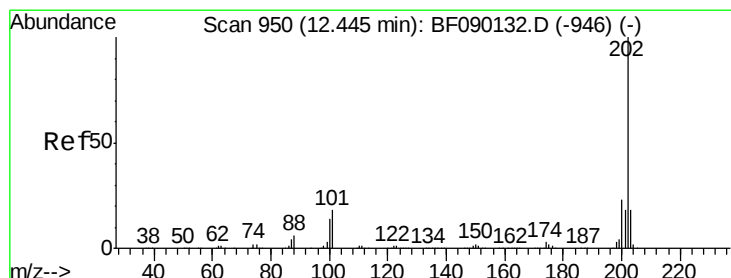
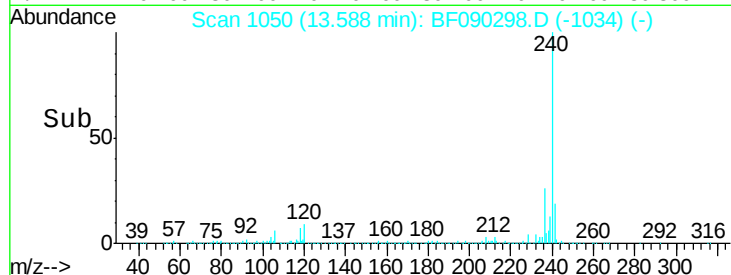
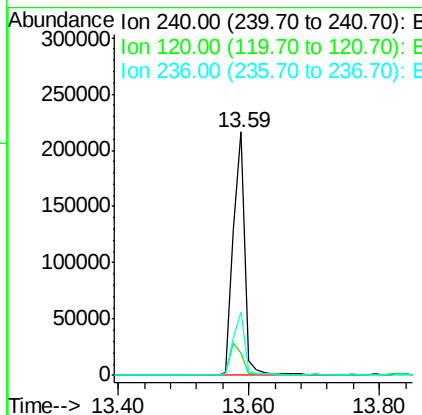
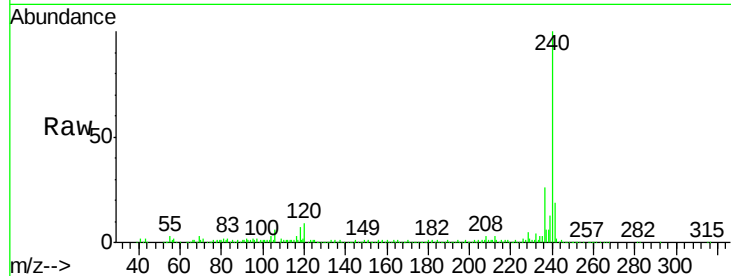
ClientSampled :

S-32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 261468 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 9.0   | 10.6  | 16.0#  |
| 236       | 26.1  | 21.6  | 32.4   |

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#77

Pyrene

Concen: 5.58 ng

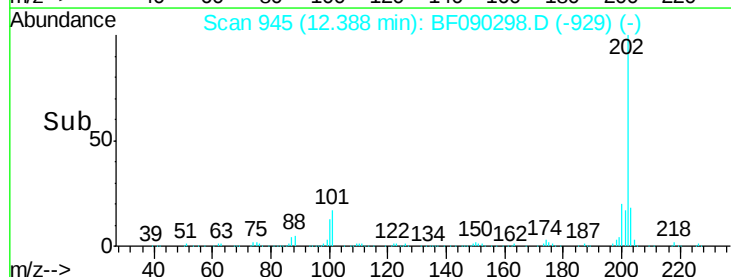
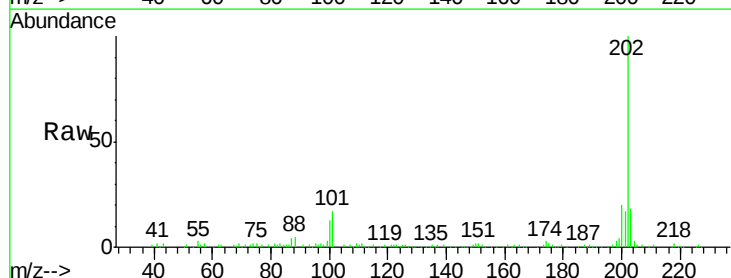
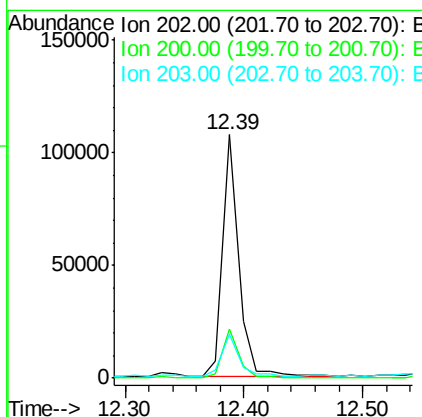
RT: 12.39 min Scan# 945

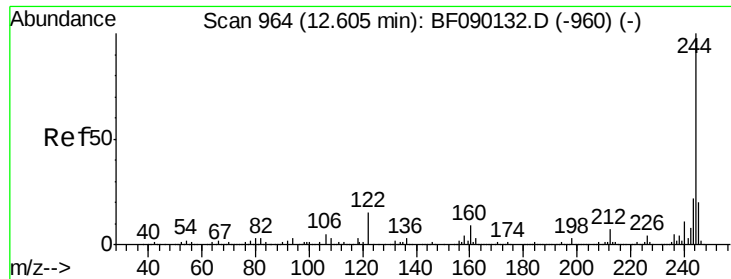
Delta R.T. -0.01 min

Lab File: BF090298.D

Acq: 29 Sep 2016 19:16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 99808 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.3  | 17.9  | 26.9  |
| 203       | 18.2  | 14.2  | 21.4  |





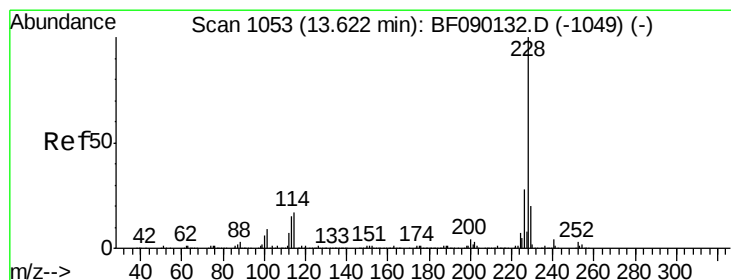
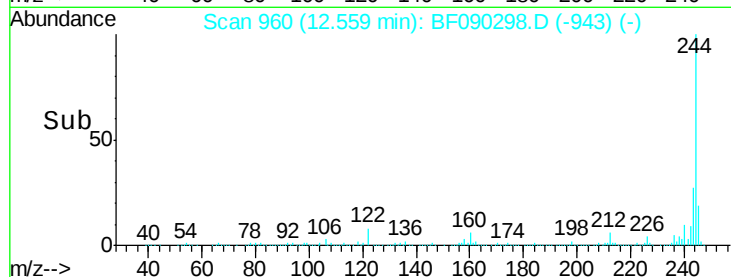
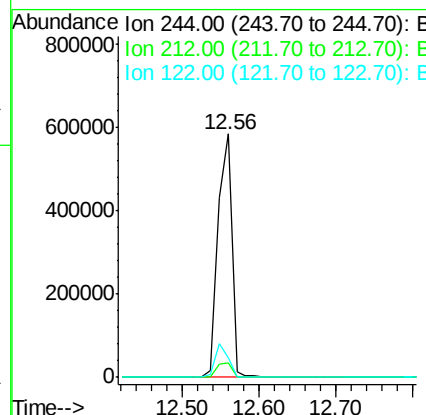
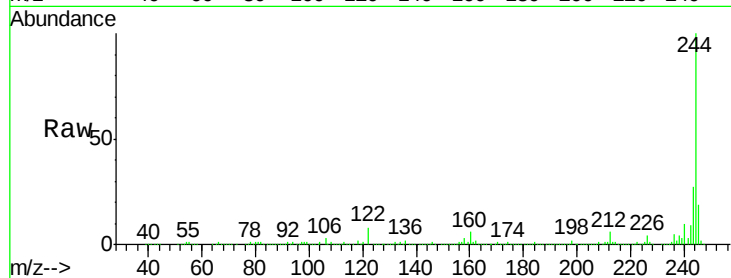
#78  
 Terphenyl-d14  
 Concen: 71.00 ng  
 RT: 12.56 min Scan# 960  
 Delta R.T. -0.00 min  
 Lab File: BF090298.D  
 Acq: 29 Sep 2016 19:16

Instrument :  
 BNA\_F  
 ClientSampled :  
 S-32

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.2   | 5.8   | 8.8   |
| 122     | 8.2   | 9.4   | 14.0  |

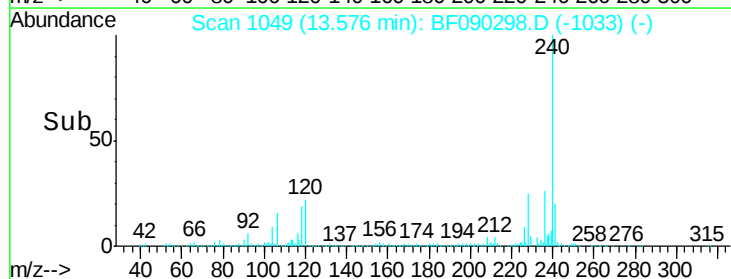
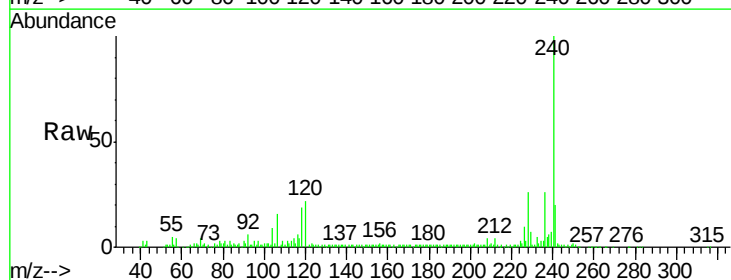
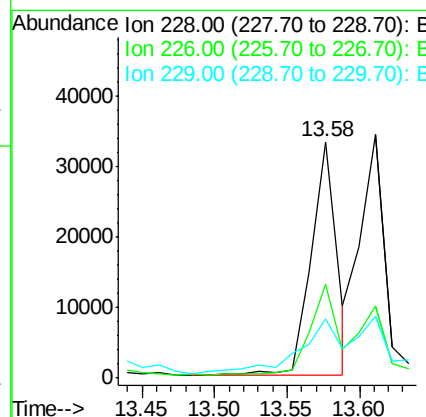
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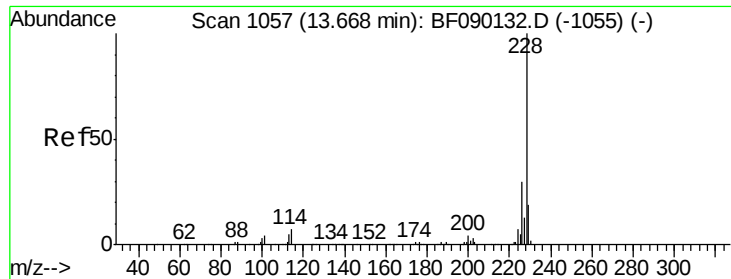
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#80  
 Benzo(a)anthracene  
 Concen: 2.88 ng  
 RT: 13.58 min Scan# 1049  
 Delta R.T. -0.01 min  
 Lab File: BF090298.D  
 Acq: 29 Sep 2016 19:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 39.7  | 22.0  | 33.0  |
| 229     | 25.0  | 16.2  | 24.2  |





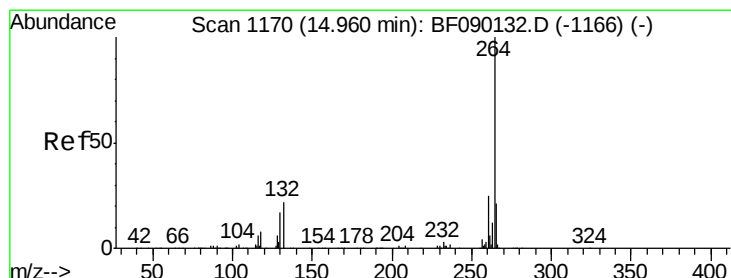
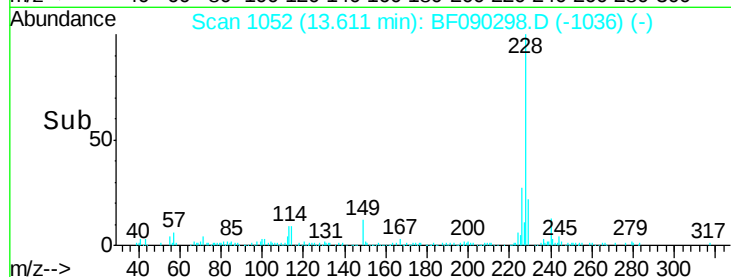
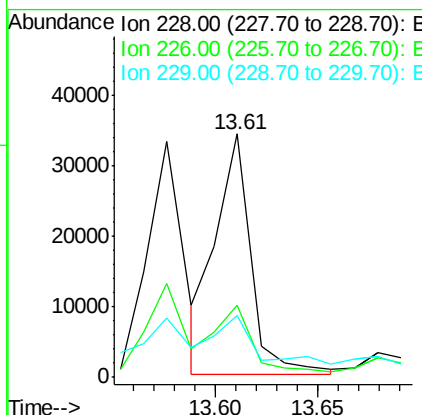
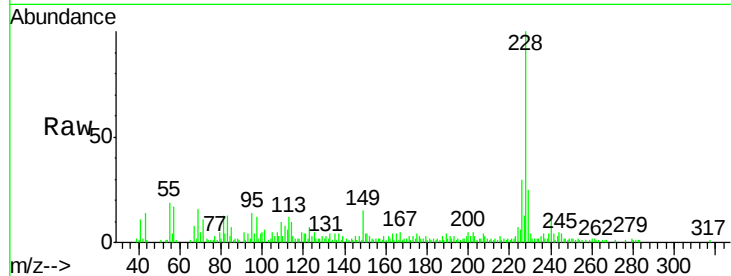
#82  
 Chrvsene  
 Concen: 2.99 ng/ml  
 RT: 13.61 min Scan# 1052  
 Delta R.T. -0.01 min  
 Lab File: BF090298.D  
 Acq: 29 Sep 2016 19:16

Instrument :  
 BNA\_F  
 ClientSampled :  
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 40979 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.7  | 24.6  | 37.0  |
| 229       | 25.4  | 16.2  | 24.4  |

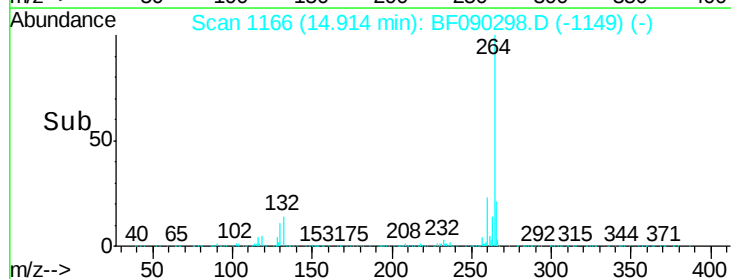
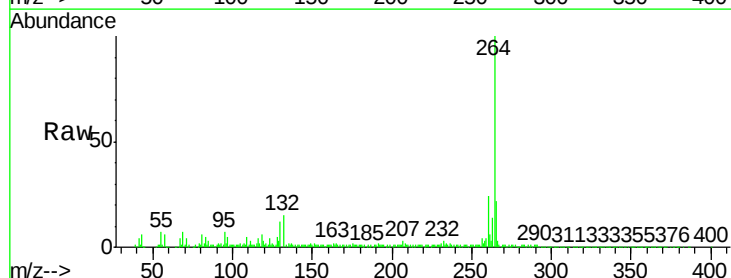
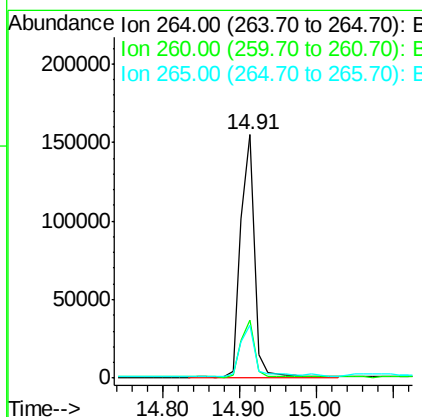
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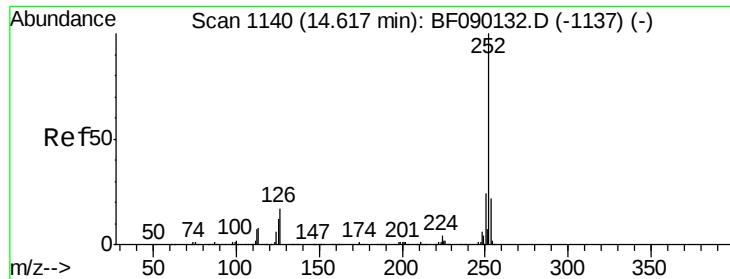
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#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 14.91 min Scan# 1166  
 Delta R.T. -0.00 min  
 Lab File: BF090298.D  
 Acq: 29 Sep 2016 19:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 196145 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.8  | 19.5  | 29.3   |
| 265       | 21.6  | 17.0  | 25.4   |





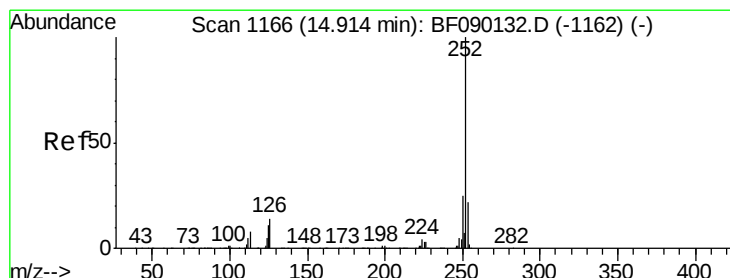
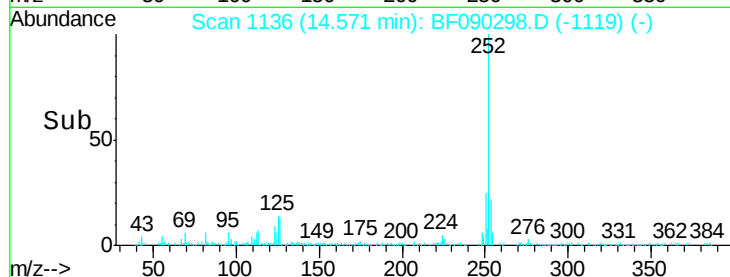
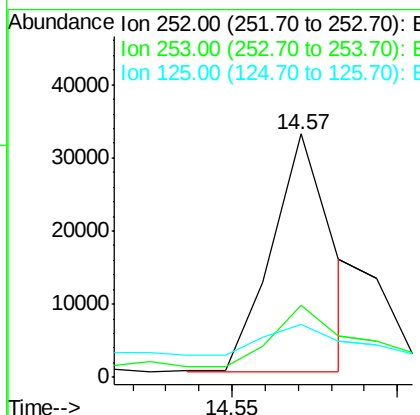
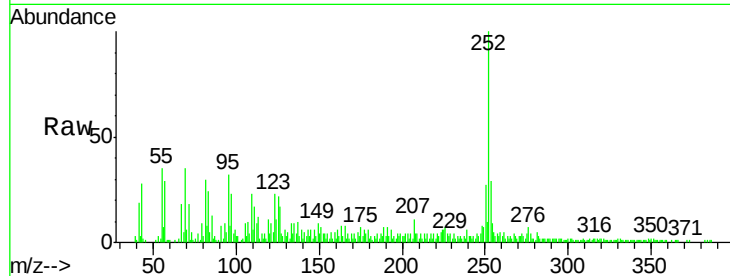
#87  
Benzo(b)fluoranthene  
Concen: 3.81 ng m  
RT: 14.57 min Scan# 1136  
Delta R.T. -0.00 min  
Lab File: BF090298.D  
Acq: 29 Sep 2016 19:16

Instrument :  
BNA\_F  
ClientSampled :  
S-32

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.4  | 17.9  | 26.9# |
| 125     | 21.7  | 12.7  | 19.1# |

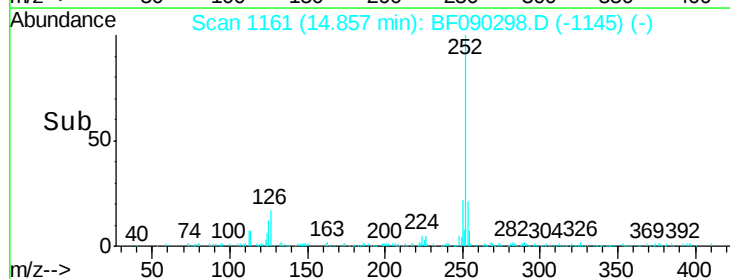
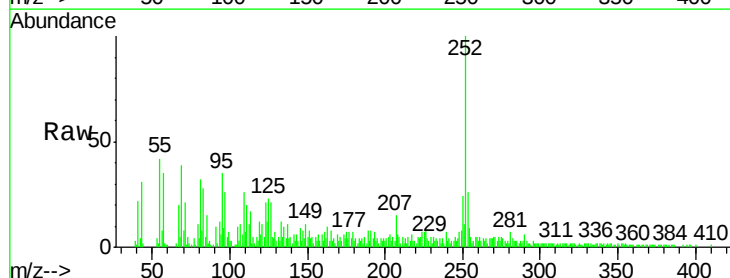
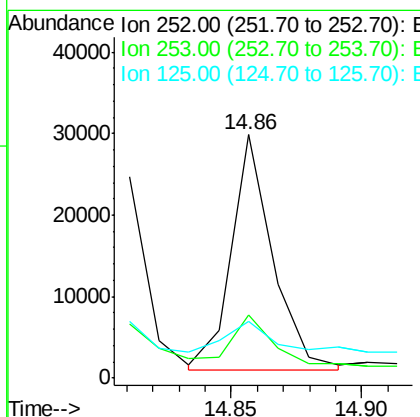
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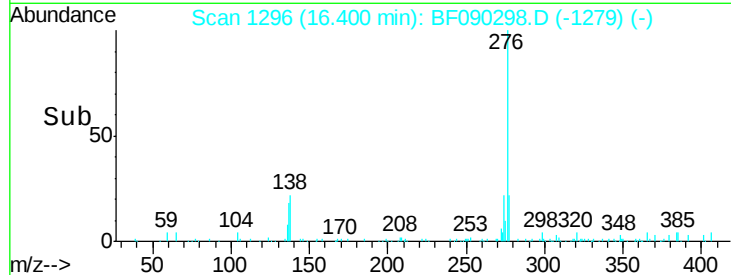
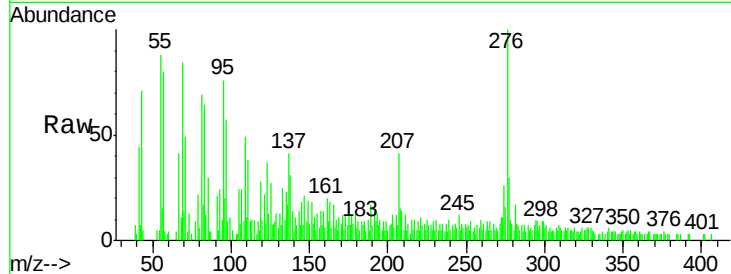
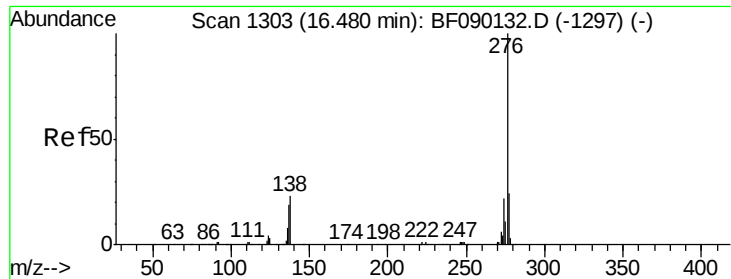
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#89  
Benzo(a)pyrene  
Concen: 3.10 ng  
RT: 14.86 min Scan# 1161  
Delta R.T. -0.01 min  
Lab File: BF090298.D  
Acq: 29 Sep 2016 19:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.1  | 17.4  | 26.0# |
| 125     | 23.5  | 7.7   | 11.5# |





#91

Benzo(a,h,i)perylene

Concen: 2.39 ng

RT: 16.40 min Scan# 1296

Delta R.T. -0.00 min

Lab File: BF090298.D

Acq: 29 Sep 2016 19:16

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 277     | 30.0  | 18.9       | 28.3# |
| 138     | 30.9  | 23.3       | 34.9  |

Instrument :

BNA\_F

ClientSampleId :

S-32

Manual Integrations  
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