

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121518\  
 Data File : BE098490.D  
 Acq On : 16 Dec 2018 3:37  
 Operator : SJ/JU  
 Sample : J6398-06  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PR-MW-01\_121218

Manual Integrations  
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Sohil  
 12/17/2018 4:11:07 PM

Quant Time: Dec 17 03:13:36 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 14:59:55 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.86  | 152  | 1183     | 0.40   | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.65 | 136  | 5281     | 0.40   | ng    | -0.01    |
| 13) Acenaphthene-d10           | 14.51 | 164  | 3780m    | 0.40   | ng    | -0.01    |
| 19) Phenanthrene-d10           | 17.27 | 188  | 9366     | 0.40   | ng    | -0.01    |
| 27) Chrysene-d12               | 21.45 | 240  | 8286     | 0.40   | ng    | -0.01    |
| 34) Perylene-d12               | 23.99 | 264  | 8129     | 0.40   | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 4) 2-Fluorophenol              | 5.44  | 112  | 849      | 0.31   | ng    | 0.00     |
| 5) Phenol-d6                   | 7.03  | 99   | 761      | 0.19   | ng    | -0.01    |
| 8) Nitrobenzene-d5             | 9.02  | 82   | 1398     | 0.29   | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 12.25 | 152  | 2577m    | 0.30   | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol       | 16.01 | 330  | 901      | 0.65   | ng    | -0.01    |
| 15) 2-Fluorobiphenyl           | 13.15 | 172  | 5722     | 0.36   | ng    | 0.00     |
| 25) Fluoranthene-d10           | 19.31 | 212  | 34283    | 0.29   | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.90 | 244  | 9080     | 0.45   | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 9) Naphthalene                 | 10.70 | 128  | 3660002  | 68.870 | ng    | 100      |
| 12) 2-Methylnaphthalene        | 12.32 | 142  | 403755   | 46.760 | ng    | 94       |
| 18) Fluorene                   | 15.57 | 166  | 13251    | 0.931  | ng    | # 88     |
| 23) Phenanthrene               | 17.30 | 178  | 4328     | 0.190  | ng    | # 73     |
| 28) Pyrene                     | 19.69 | 202  | 926      | 0.036  | ng    | # 89     |
| 32) Bis(2-ethylhexyl)phthalate | 21.35 | 149  | 6066     | 0.127  | ng    | # 99     |

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

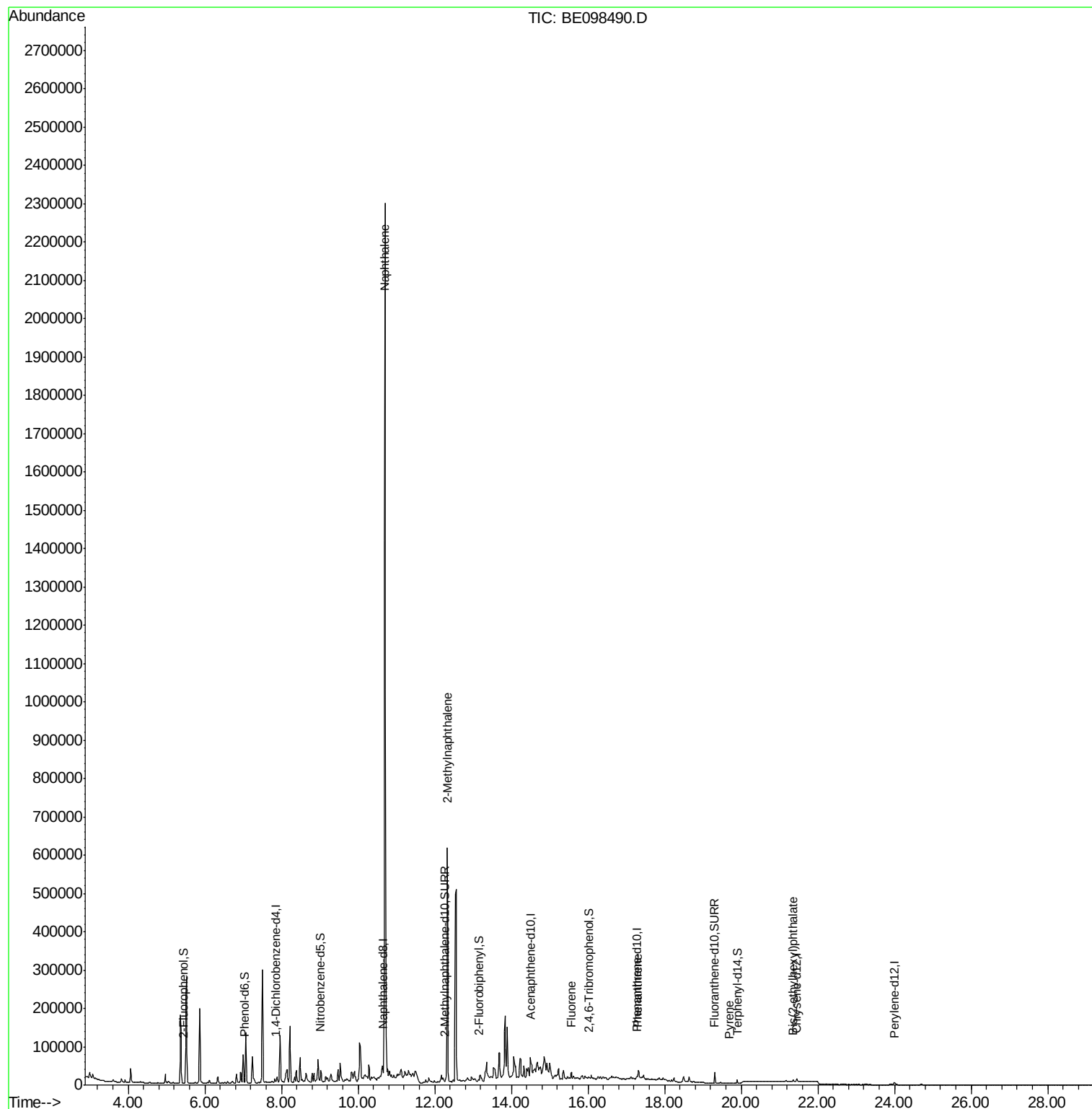
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121518\  
Data File : BE098490.D  
Acq On : 16 Dec 2018 3:37  
Operator : SJ/JU  
Sample : J6398-06  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

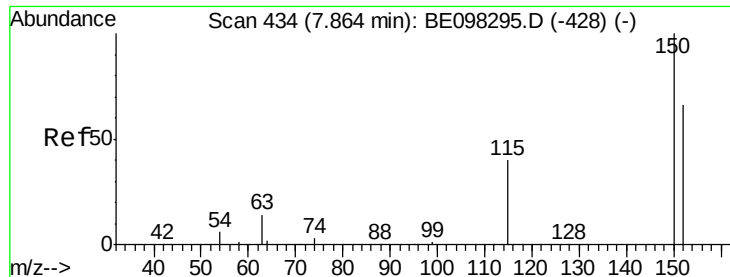
Instrument :  
BNA\_E  
ClientSampleId :  
PR-MW-01\_121218

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12/17/2018 4:11:07 PM

Quant Time: Dec 17 03:13:36 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 10 14:59:55 2018  
Response via : Initial Calibration





#1

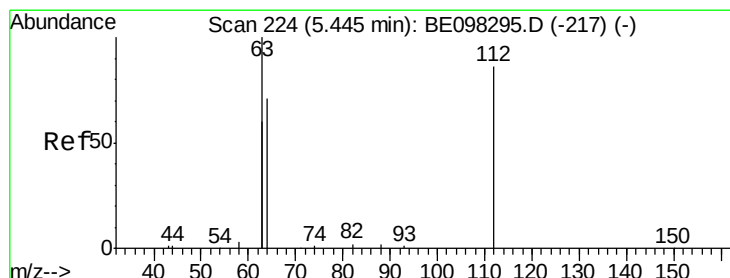
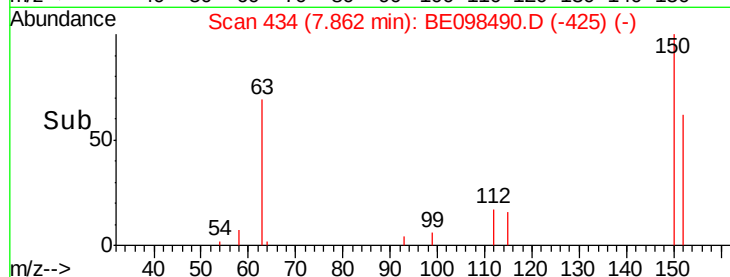
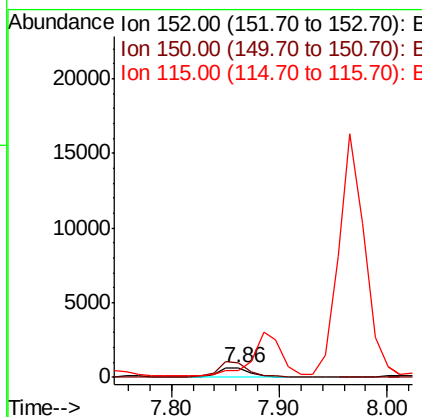
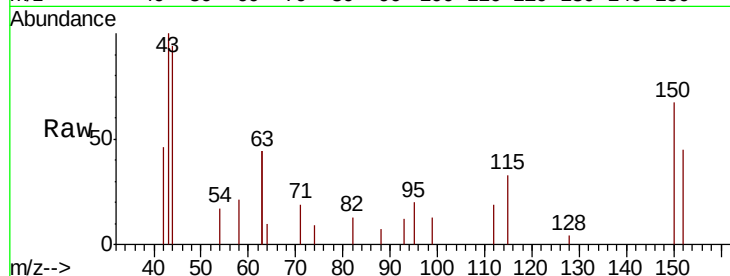
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.86 min Scan# 434  
Delta R.T. -0.00 min  
Lab File: BE098490.D  
Acq: 16 Dec 2018 3:37

Instrument :  
BNA\_E  
ClientSampleId :  
PR-MW-01\_121218

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.0 | 124.2 | 186.4 |
| 115     | 74.0  | 53.9  | 80.9  |

Manual Integrations  
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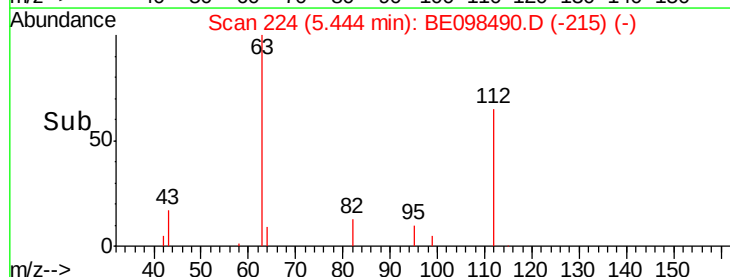
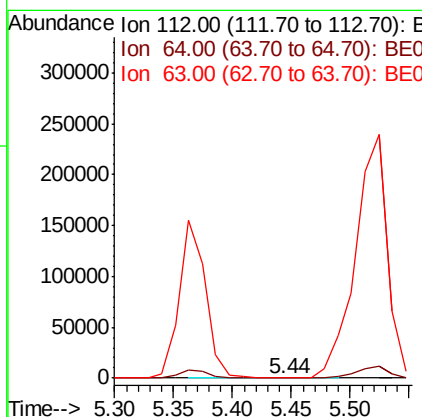
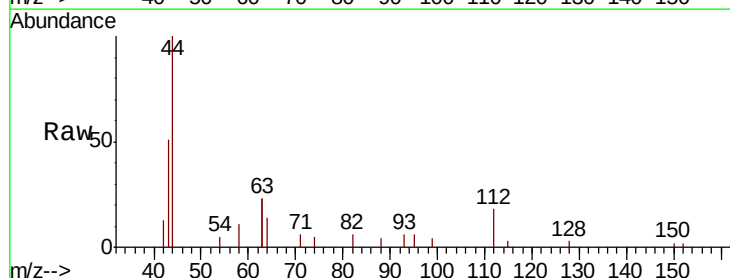
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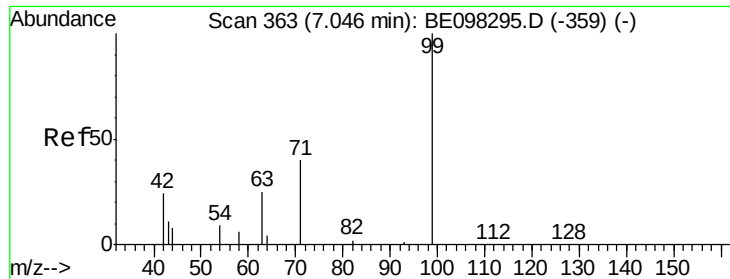


#4

2-Fluorophenol  
Concen: 0.307 ng  
RT: 5.44 min Scan# 224  
Delta R.T. -0.00 min  
Lab File: BE098490.D  
Acq: 16 Dec 2018 3:37

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 112     | 100   |       |        |
| 64      | 0.0   | 59.8  | 89.8#  |
| 63      | 0.0   | 133.7 | 200.5# |





#5

Phenol-d6

Concen: 0.194 ng

RT: 7.03 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE098490.D

Acq: 16 Dec 2018 3:37

Instrument :

BNA\_E

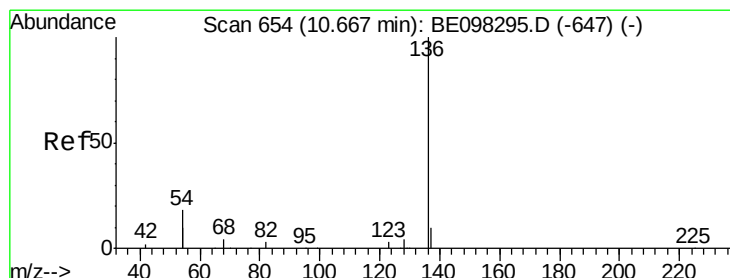
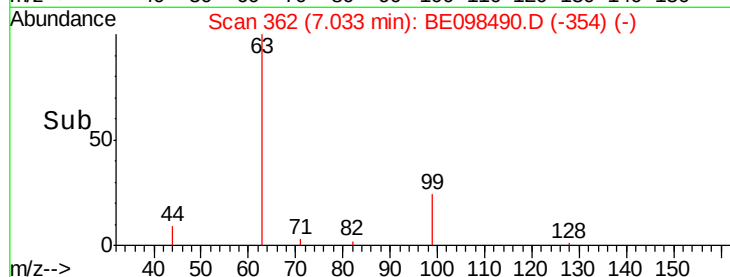
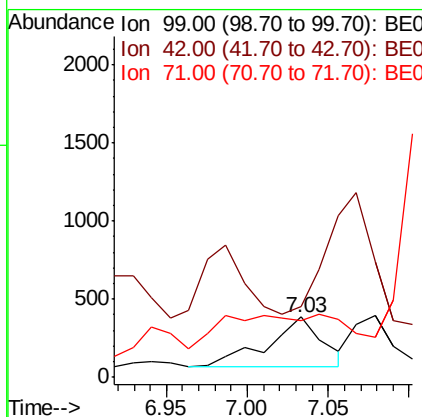
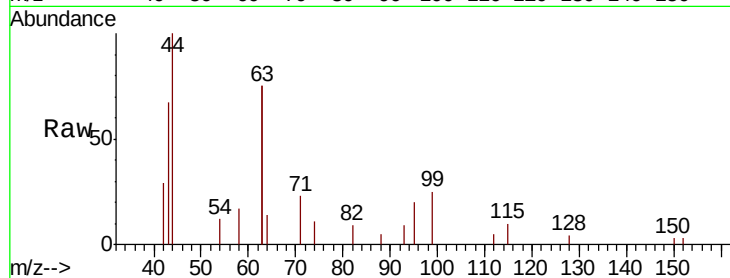
ClientSampleId :

PR-MW-01\_121218

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 761   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 0.0   | 26.3  | 39.5# |
| 71       | 152.0 | 33.6  | 50.4# |

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#7

Naphthalene-d8

Concen: 0.400 ng

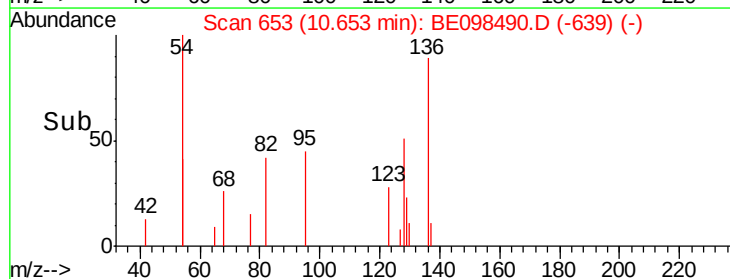
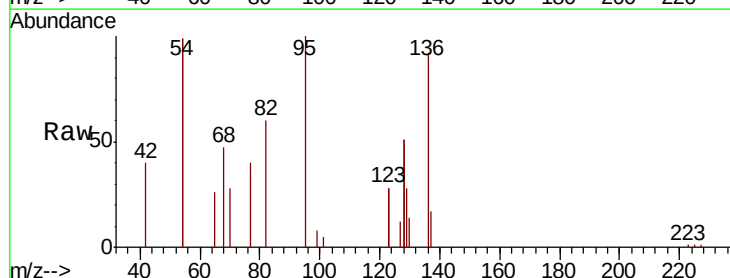
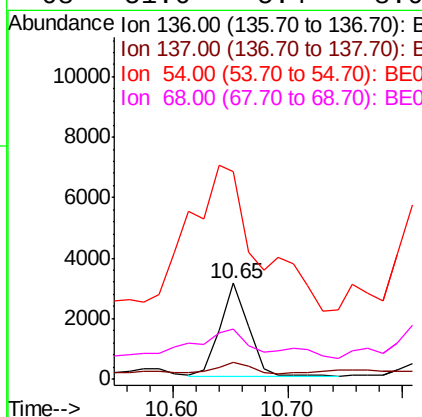
RT: 10.65 min Scan# 653

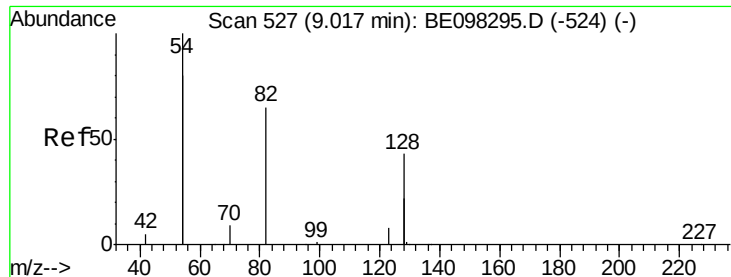
Delta R.T. -0.01 min

Lab File: BE098490.D

Acq: 16 Dec 2018 3:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5281  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 18.0  | 9.2   | 13.8# |
| 54       | 216.7 | 28.4  | 42.6# |
| 68       | 51.6  | 5.4   | 8.0#  |





#8

Nitrobenzene-d5

Concen: 0.291 ng

RT: 9.02 min Scan# 527

Delta R.T. -0.00 min

Lab File: BE098490.D

Acq: 16 Dec 2018 3:37

Instrument :

BNA\_E

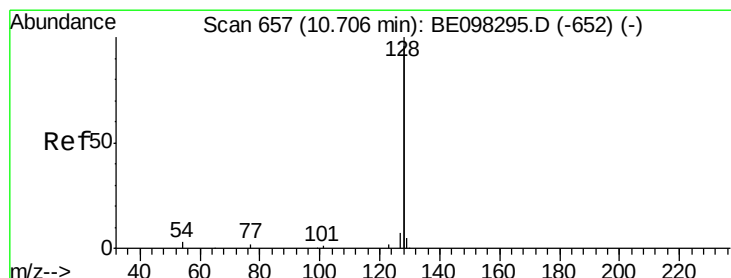
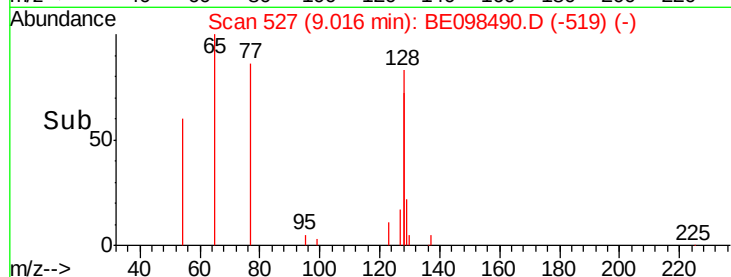
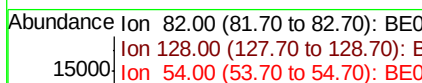
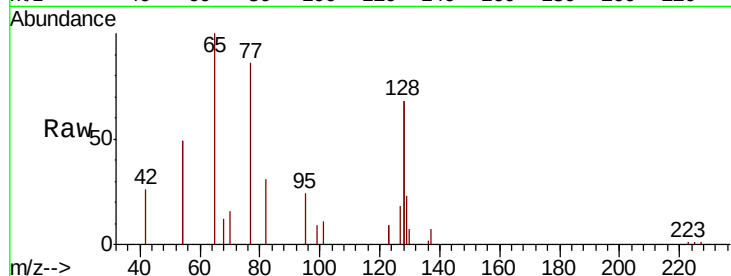
ClientSampleId :

PR-MW-01\_121218

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 1398   |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 441.0 | 102.4 | 153.6# |
| 54        | 318.4 | 221.8 | 332.8  |

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#9

Naphthalene

Concen: 68.870 ng

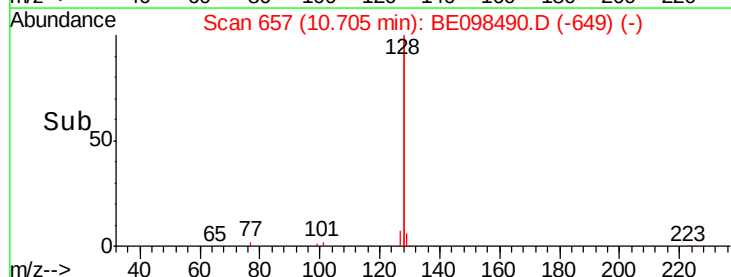
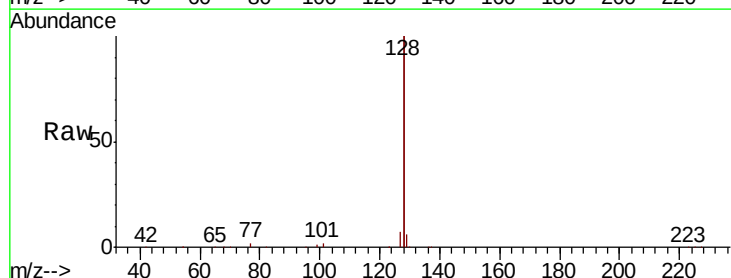
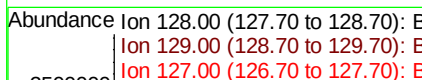
RT: 10.70 min Scan# 657

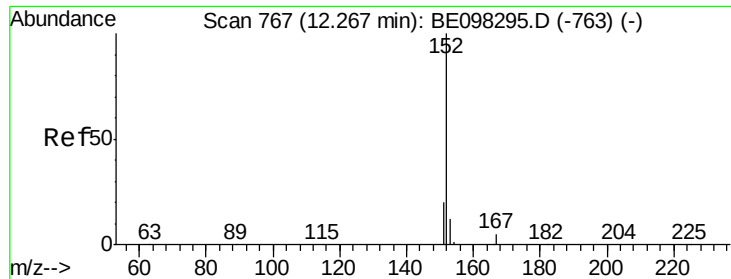
Delta R.T. -0.00 min

Lab File: BE098490.D

Acq: 16 Dec 2018 3:37

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 128   | Resp: | 3660002 |
| Ion Ratio | Lower | Upper |         |
| 128       | 100   |       |         |
| 129       | 2.9   | 2.5   | 3.7     |
| 127       | 3.5   | 2.7   | 4.1     |





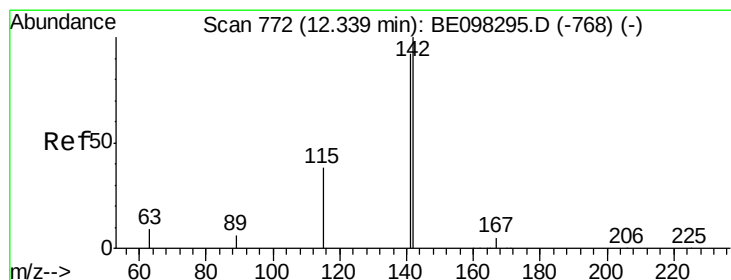
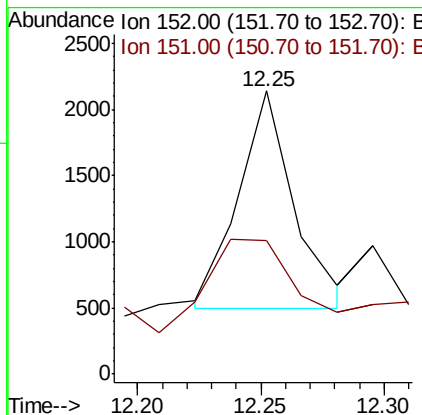
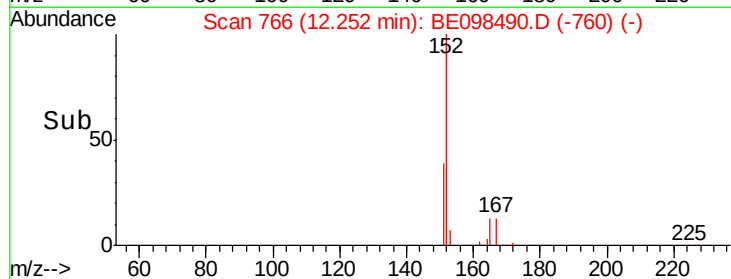
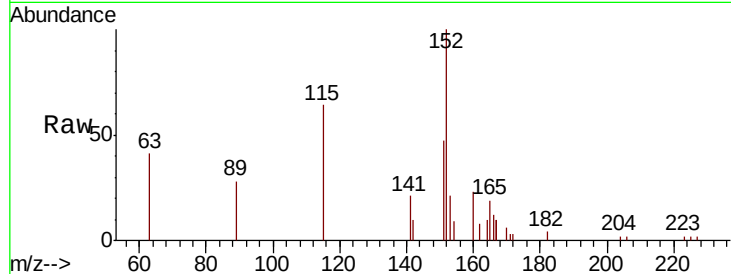
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.300 ng/mL  
 RT: 12.25 min Scan# 766  
 Delta R.T. -0.01 min  
 Lab File: BE098490.D  
 Acq: 16 Dec 2018 3:37

Instrument :  
 BNA\_E  
 ClientSampleID :  
 PR-MW-01\_121218

Tot Ion:152 Resp: 2577  
 Ion Ratio Lower Upper  
 152 100  
 151 68.3 16.2 24.4#

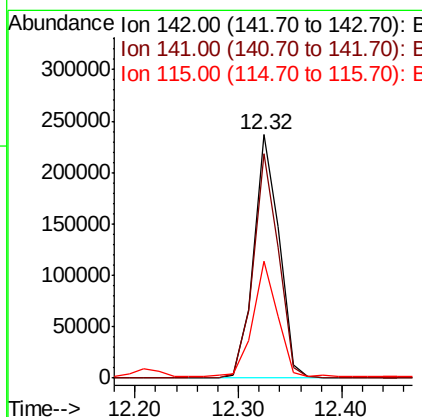
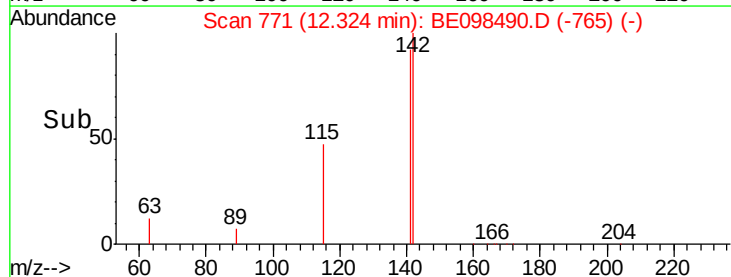
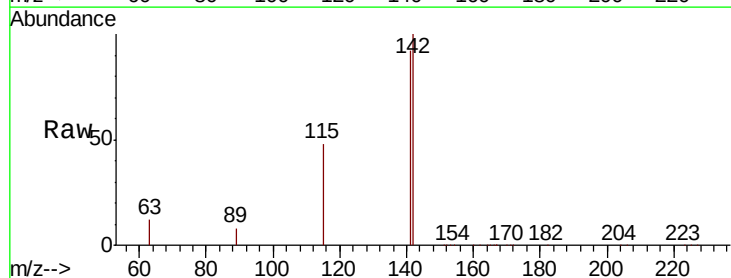
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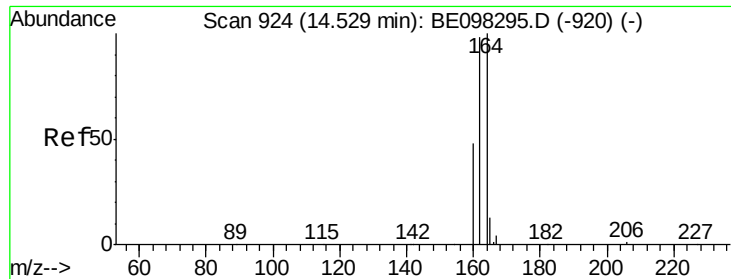
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#12  
 2-Methylnaphthalene  
 Concen: 46.760 ng/mL  
 RT: 12.32 min Scan# 771  
 Delta R.T. -0.01 min  
 Lab File: BE098490.D  
 Acq: 16 Dec 2018 3:37

Tgt Ion:142 Resp: 403755  
 Ion Ratio Lower Upper  
 142 100  
 141 92.2 71.0 106.6  
 115 48.0 32.2 48.2





#13

Acenaphthene-d10

Concen: 0.400 ng m

RT: 14.51 min Scan# 923

Delta R.T. -0.01 min

Lab File: BE098490.D

Acq: 16 Dec 2018 3:37

Instrument :

BNA\_E

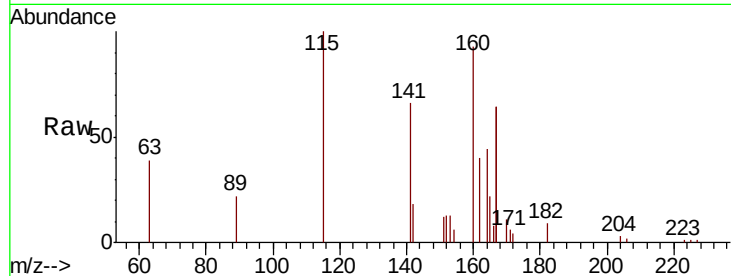
ClientSampleId :

PR-MW-01\_121218

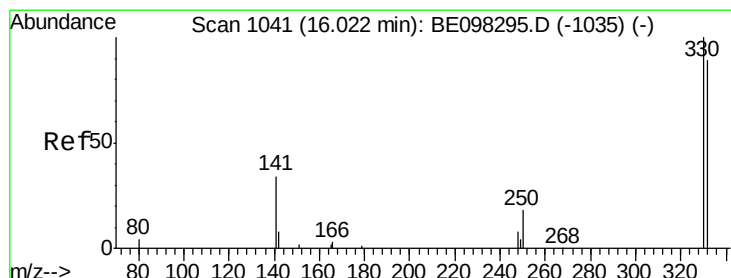
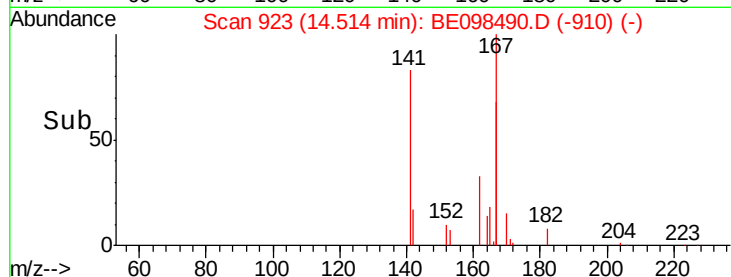
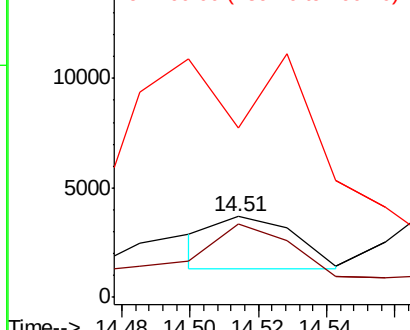
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 164   | Resp: | 3780  |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 90.6  | 77.6  | 116.4 |
| 160       | 209.7 | 36.0  | 54.0# |

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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



#14

2,4,6-Tribromophenol

Concen: 0.649 ng

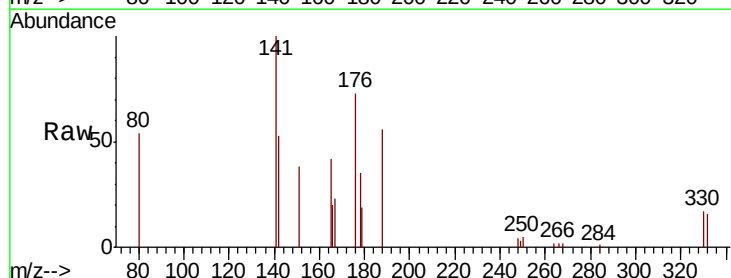
RT: 16.01 min Scan# 1040

Delta R.T. -0.01 min

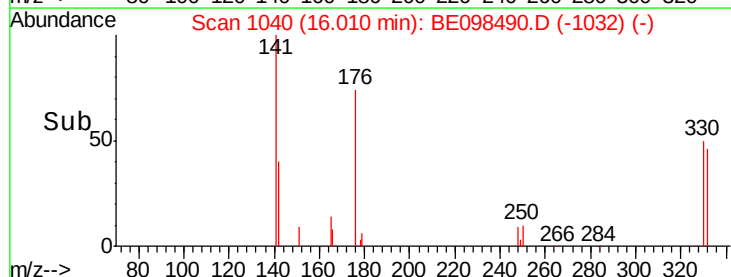
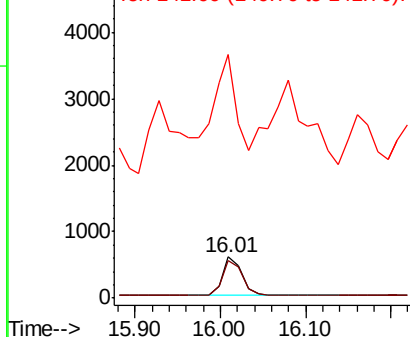
Lab File: BE098490.D

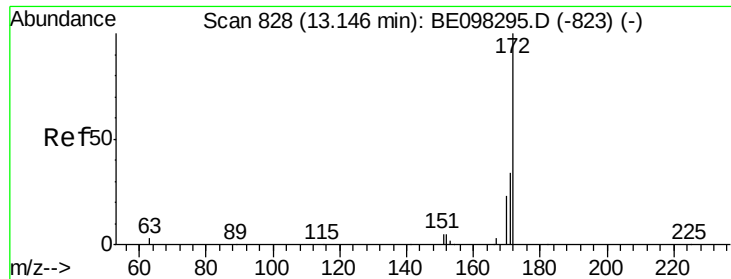
Acq: 16 Dec 2018 3:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 901   |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 94.6  | 76.2  | 114.4 |
| 141       | 273.0 | 39.0  | 58.4# |



Abundance Ion 330.00 (329.70 to 330.70): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E





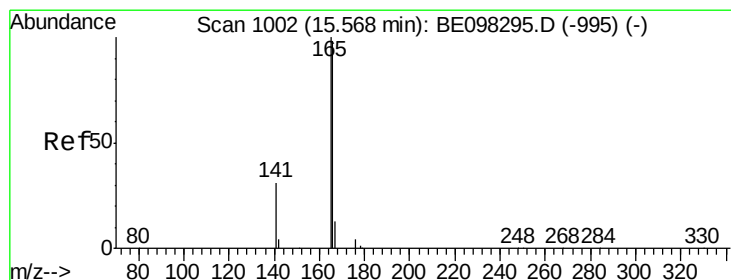
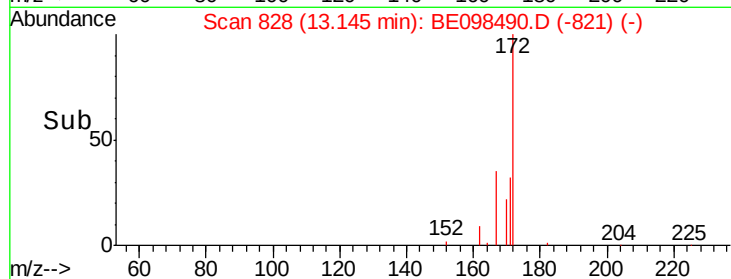
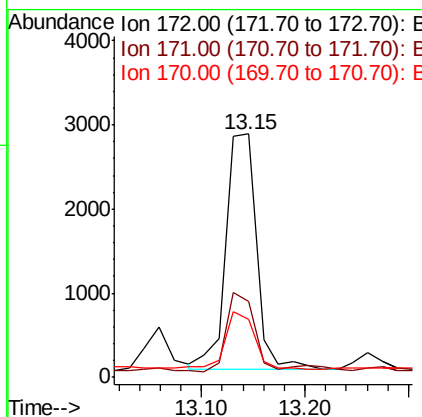
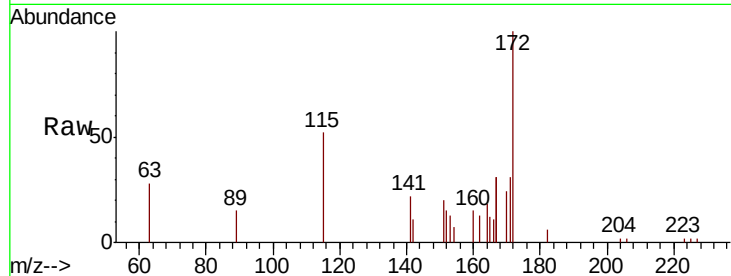
#15  
2-Fluorobiphenyl  
Concen: 0.359 ng  
RT: 13.15 min Scan# 828  
Delta R.T. -0.00 min  
Lab File: BE098490.D  
Acq: 16 Dec 2018 3:37

Instrument :  
BNA\_E  
ClientSampleId :  
PR-MW-01\_121218

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 31.4  | 27.5  | 41.3  |
| 170     | 23.6  | 19.6  | 29.4  |

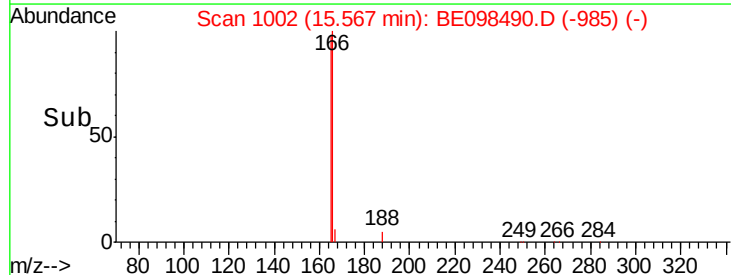
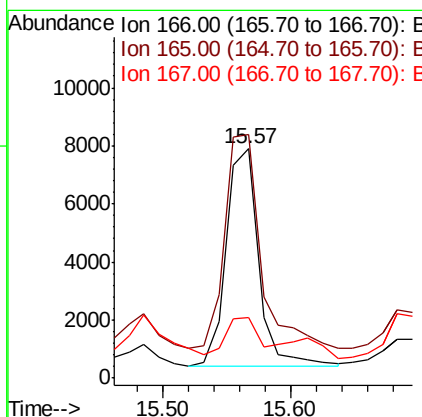
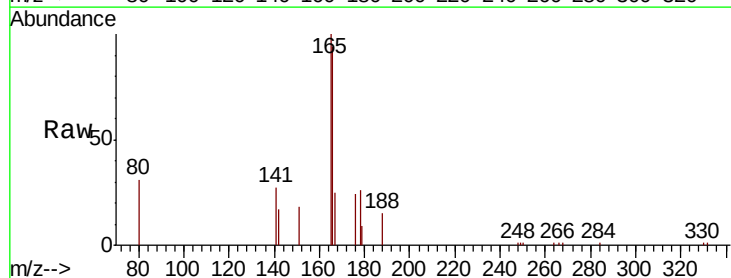
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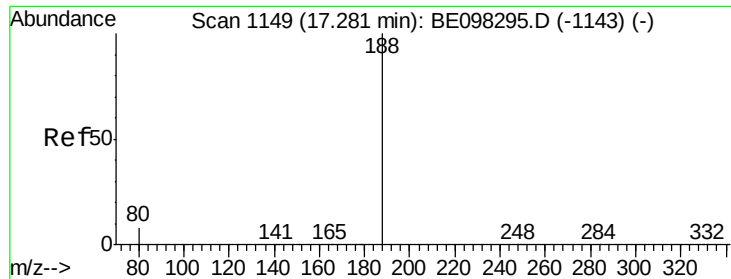


#18  
Fluorene  
Concen: 0.931 ng  
RT: 15.57 min Scan# 1002  
Delta R.T. -0.00 min  
Lab File: BE098490.D  
Acq: 16 Dec 2018 3:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 111.8 | 79.3  | 118.9 |
| 167     | 18.4  | 11.3  | 16.9# |







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.27 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE098490.D

Acq: 16 Dec 2018 3:37

Instrument :

BNA\_E

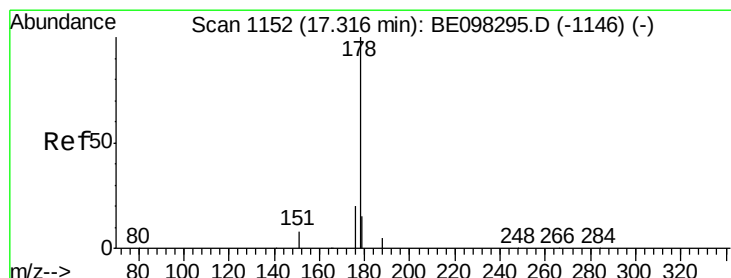
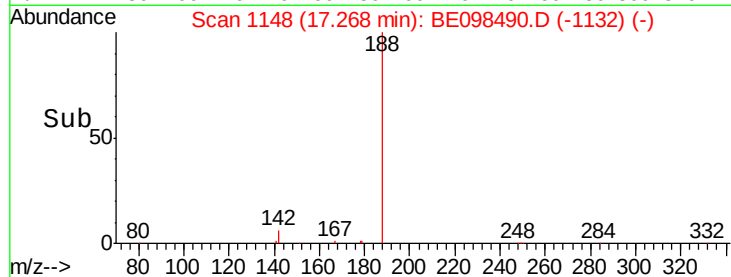
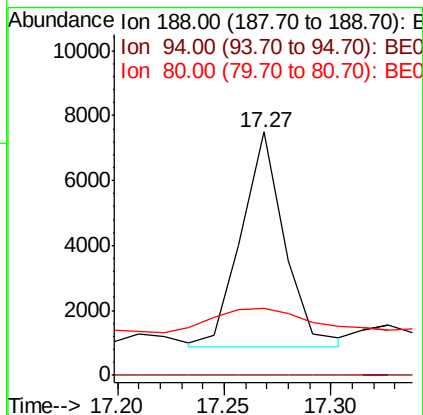
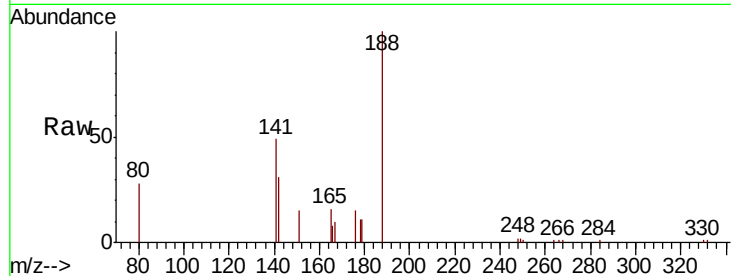
ClientSampleId :

PR-MW-01\_121218

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 9366  |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 27.7  | 7.2   | 10.8# |

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#23

Phenanthrene

Concen: 0.190 ng

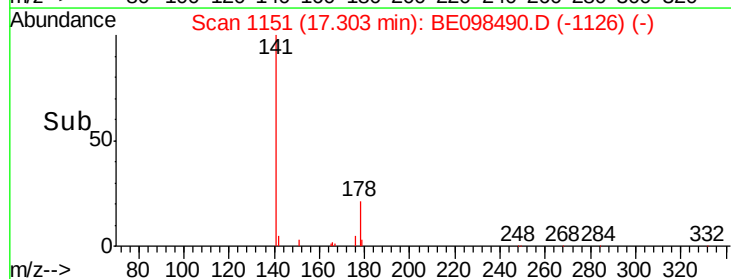
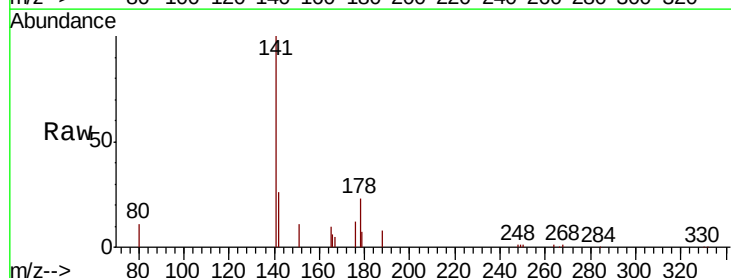
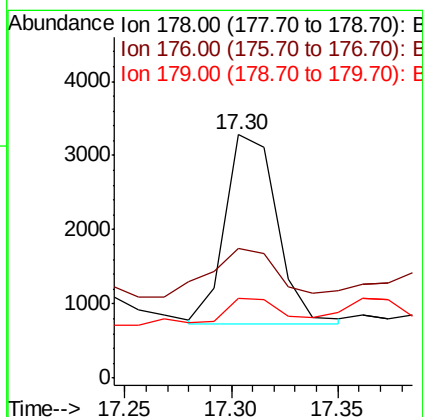
RT: 17.30 min Scan# 1151

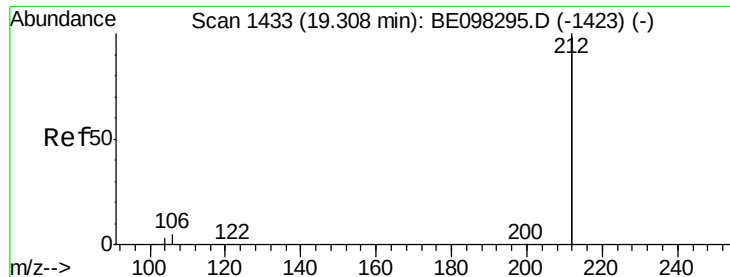
Delta R.T. -0.01 min

Lab File: BE098490.D

Acq: 16 Dec 2018 3:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 4328  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 31.6  | 15.9  | 23.9# |
| 179       | 27.5  | 12.3  | 18.5# |





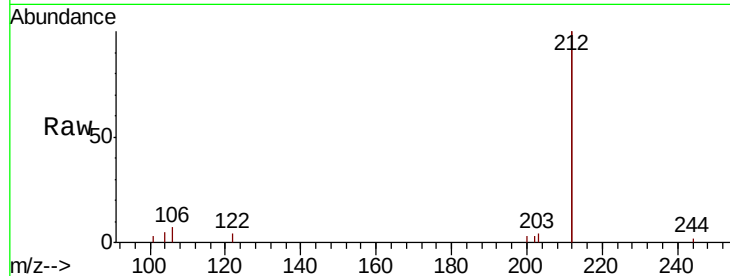
#25  
Fluoranthene-d10  
Concen: 0.285 ng  
RT: 19.31 min Scan# 1433  
Delta R.T. 0.00 min  
Lab File: BE098490.D  
Acq: 16 Dec 2018 3:37

Instrument :  
BNA\_E  
ClientSampleId :  
PR-MW-01\_121218

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 212     | 100   |            |       |
| 106     | 2.6   | 2.2        | 3.2   |
| 104     | 1.2   | 1.3        | 1.9#  |

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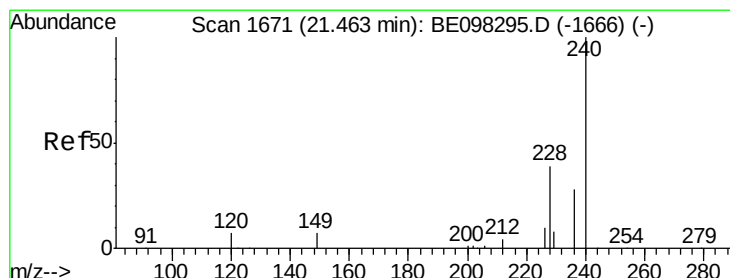
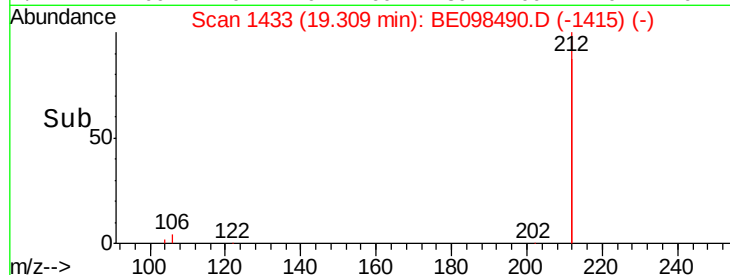
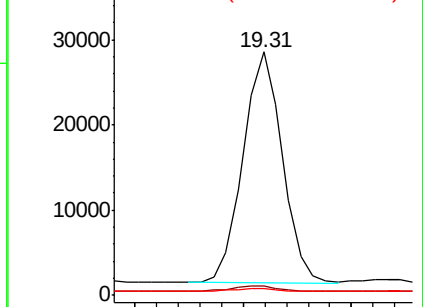


Abundance

Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.45 min Scan# 1670  
Delta R.T. -0.01 min  
Lab File: BE098490.D  
Acq: 16 Dec 2018 3:37

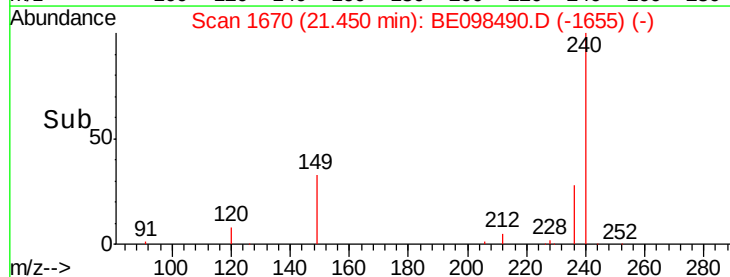
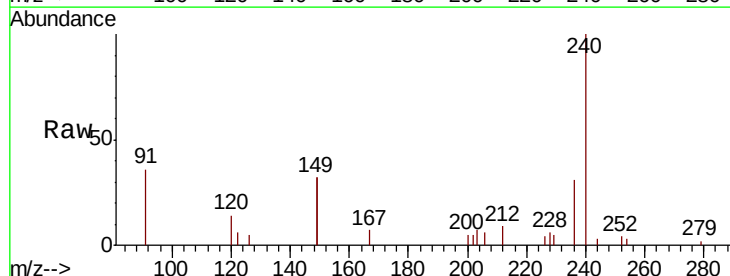
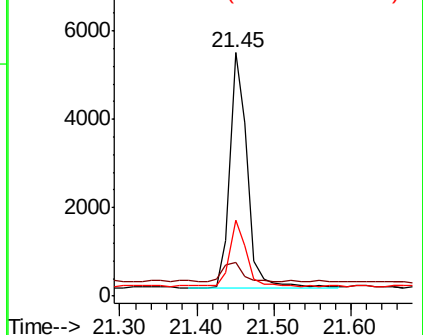
| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 13.9  | 9.5        | 14.3  |
| 236     | 31.0  | 22.7       | 34.1  |

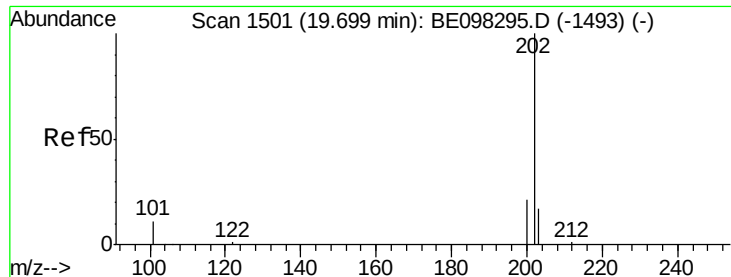
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





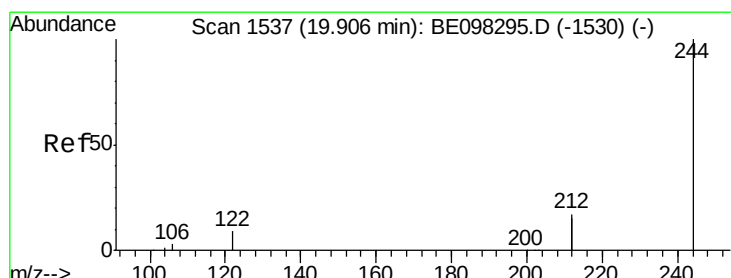
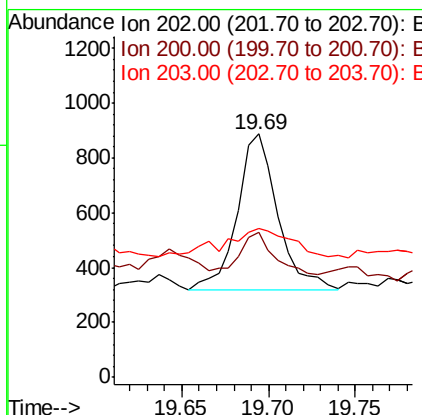
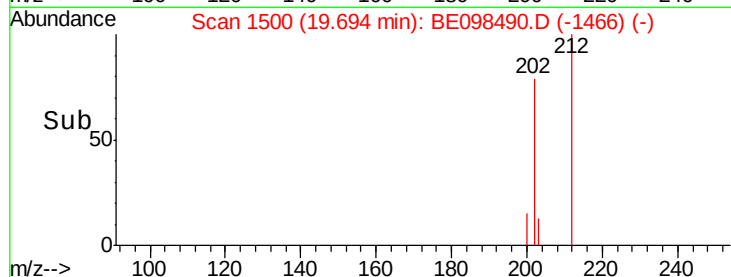
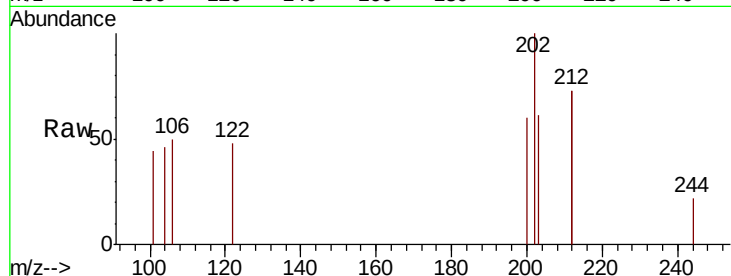
#28  
Pvrene  
Concen: 0.036 ng  
RT: 19.69 min Scan# 1500  
Delta R.T. -0.00 min  
Lab File: BE098490.D  
Acq: 16 Dec 2018 3:37

Instrument :  
BNA\_E  
ClientSampleId :  
PR-MW-01\_121218

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.5  | 16.7  | 25.1  |
| 203     | 26.5  | 14.1  | 21.1  |

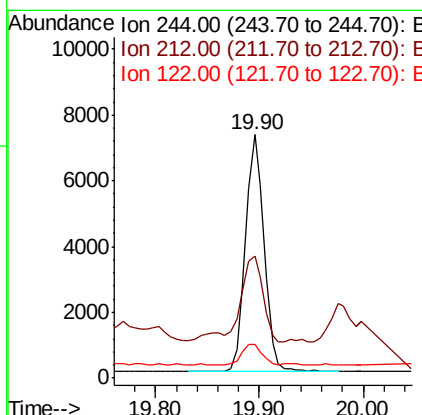
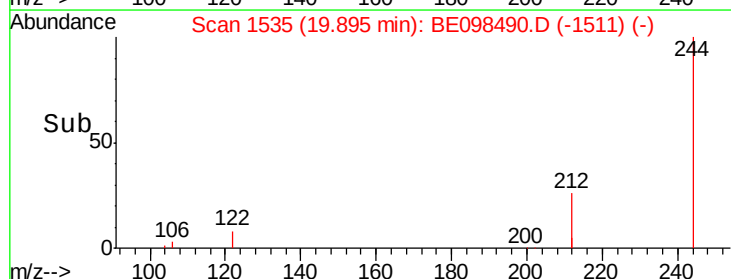
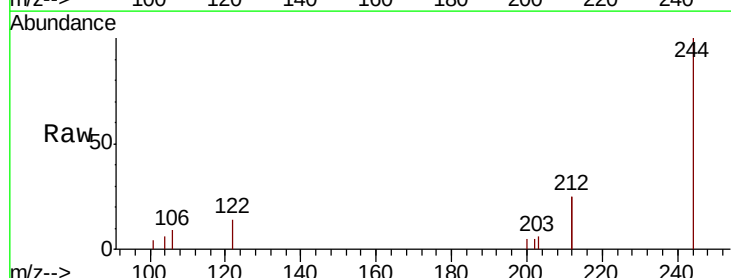
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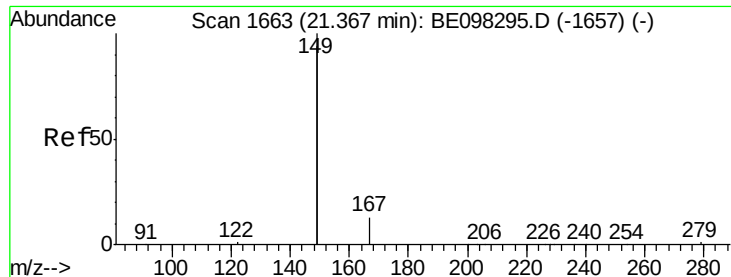
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#29  
Terphenyl-d14  
Concen: 0.451 ng  
RT: 19.90 min Scan# 1535  
Delta R.T. -0.01 min  
Lab File: BE098490.D  
Acq: 16 Dec 2018 3:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 50.2  | 27.4  | 41.0  |
| 122     | 13.8  | 8.3   | 12.5  |





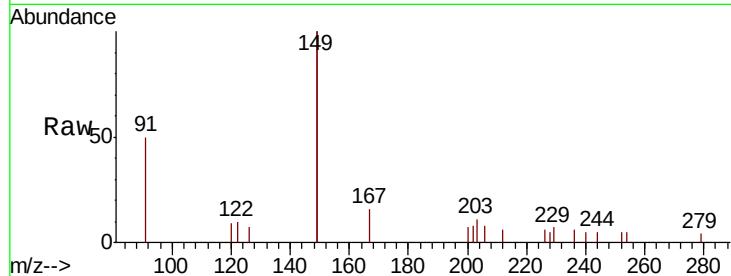
#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.127 ng  
 RT: 21.35 min Scan# 1662  
 Delta R.T. -0.01 min  
 Lab File: BE098490.D  
 Acq: 16 Dec 2018 3:37

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PR-MW-01\_121218

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 6.8   | 5.7   | 8.5   |
| 279     | 1.6   | 1.0   | 1.4   |

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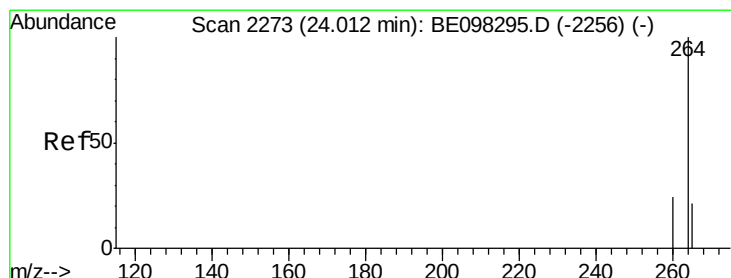
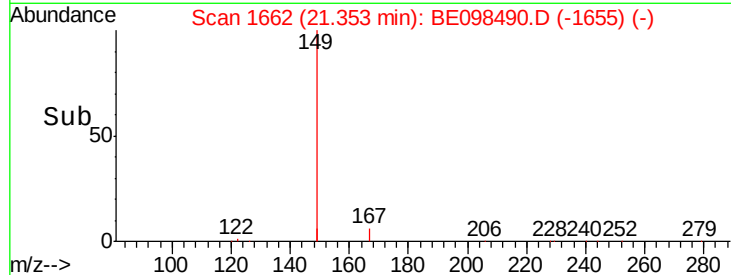
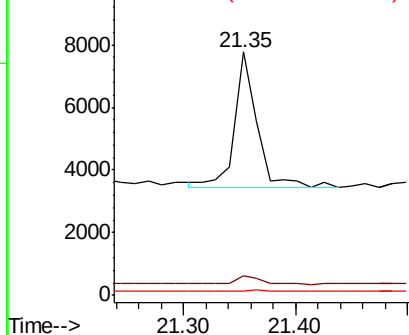


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.99 min Scan# 2268  
 Delta R.T. -0.02 min  
 Lab File: BE098490.D  
 Acq: 16 Dec 2018 3:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.8  | 20.2  | 30.2  |
| 265     | 31.1  | 25.2  | 37.8  |

Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

