

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE030719\  
 Data File : BE098819.D  
 Acq On : 7 Mar 2019 14:23  
 Operator : JU/SJ  
 Sample : K1655-08MSD  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A0C1-TWPMSD

Manual Integrations  
 APPROVED

Sohil  
 3/8/2019 10:38:33 AM

Quant Time: Mar 08 03:48:56 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE030619.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 06 15:33:24 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.78  | 152  | 870      | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.59 | 136  | 3597     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.46 | 164  | 2404     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.21 | 188  | 6056     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.39 | 240  | 7766     | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.90 | 264  | 7575     | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| 4) 2-Fluorophenol           | 5.39  | 112 | 321   | 0.12 | ng | 0.00  |
| 5) Phenol-d6                | 6.97  | 99  | 321   | 0.09 | ng | -0.01 |
| 8) Nitrobenzene-d5          | 8.95  | 82  | 1401  | 0.37 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.20 | 152 | 2607  | 0.39 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.96 | 330 | 382   | 0.31 | ng | -0.02 |
| 15) 2-Fluorobiphenyl        | 13.07 | 172 | 4287  | 0.43 | ng | -0.01 |
| 25) Fluoranthene-d10        | 19.24 | 212 | 38022 | 0.39 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.84 | 244 | 9769  | 0.52 | ng | 0.00  |

#### Target Compounds

|                                |       |     |       |       |    | Qvalue |
|--------------------------------|-------|-----|-------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.28  | 88  | 244   | 0.078 | ng | # 46   |
| 3) n-Nitrosodimethylamine      | 3.61  | 42  | 238   | 0.109 | ng | # 84   |
| 6) bis(2-Chloroethyl)ether     | 7.22  | 93  | 936   | 0.330 | ng | # 80   |
| 9) Naphthalene                 | 10.63 | 128 | 15391 | 0.374 | ng | 99     |
| 10) Hexachlorobutadiene        | 10.91 | 225 | 874   | 0.321 | ng | 97     |
| 12) 2-Methylnaphthalene        | 12.27 | 142 | 2753  | 0.412 | ng | 97     |
| 16) Acenaphthylene             | 14.17 | 152 | 4240  | 0.343 | ng | 96     |
| 17) Acenaphthene               | 14.51 | 154 | 2502  | 0.341 | ng | 98     |
| 18) Fluorene                   | 15.50 | 166 | 3749  | 0.354 | ng | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.40 | 248 | 1279  | 0.390 | ng | 93     |
| 21) Hexachlorobenzene          | 16.52 | 284 | 1321  | 0.338 | ng | 98     |
| 22) Pentachlorophenol          | 16.87 | 266 | 696   | 0.788 | ng | # 83   |
| 23) Phenanthrene               | 17.25 | 178 | 6577  | 0.382 | ng | 97     |
| 24) Anthracene                 | 17.35 | 178 | 5506  | 0.374 | ng | 99     |
| 26) Fluoranthene               | 19.27 | 202 | 8576  | 0.353 | ng | 99     |
| 28) Pyrene                     | 19.63 | 202 | 9095  | 0.383 | ng | 99     |
| 30) Benzo(a)anthracene         | 21.38 | 228 | 8791  | 0.363 | ng | 98     |
| 31) Chrysene                   | 21.43 | 228 | 8990  | 0.347 | ng | 96     |
| 32) Bis(2-ethylhexyl)phthalate | 21.31 | 149 | 18928 | 0.367 | ng | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.53 | 276 | 8159  | 0.298 | ng | # 92   |
| 35) Benzo(b)fluoranthene       | 23.13 | 252 | 8491m | 0.341 | ng |        |
| 36) Benzo(k)fluoranthene       | 23.18 | 252 | 9023  | 0.346 | ng | 100    |
| 37) Benzo(a)pyrene             | 23.79 | 252 | 7573  | 0.317 | ng | # 97   |
| 38) Dibenzo(a,h)anthracene     | 26.55 | 278 | 6622  | 0.293 | ng | 98     |
| 39) Benzo(g,h,i)perylene       | 27.34 | 276 | 6662  | 0.282 | ng | 98     |

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

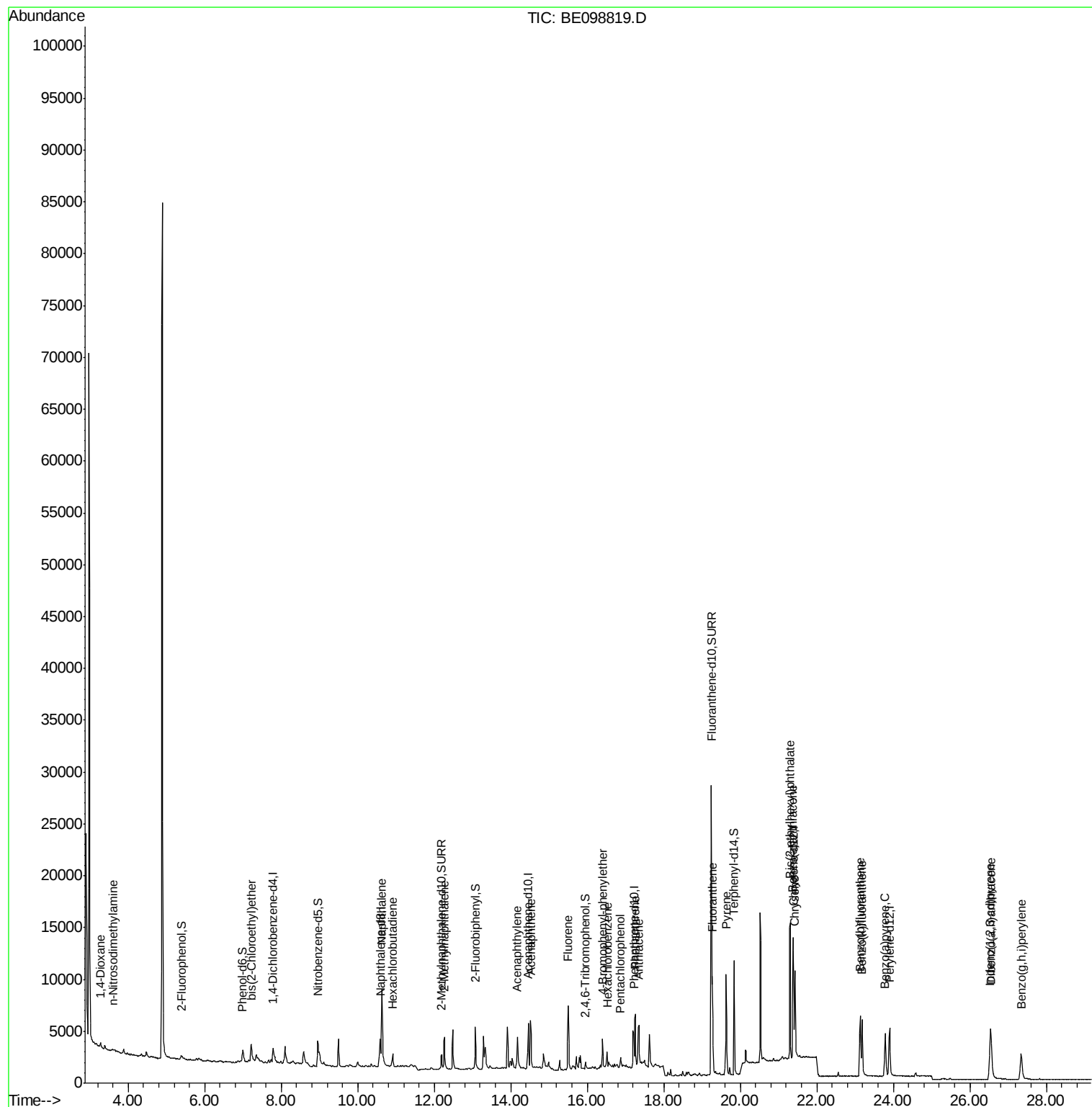
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE030719\  
Data File : BE098819.D  
Acq On : 7 Mar 2019 14:23  
Operator : JU/SJ  
Sample : K1655-08MSD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

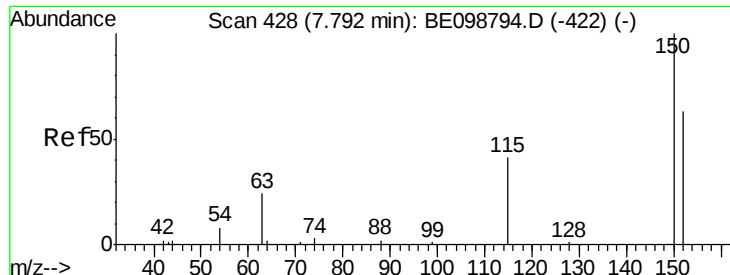
Instrument :  
BNA\_E  
ClientSampleId :  
A0C1-TWPMSD

Manual Integrations  
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3/8/2019 10:38:33 AM

Quant Time: Mar 08 03:48:56 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE030619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 06 15:33:24 2019  
Response via : Initial Calibration





#1

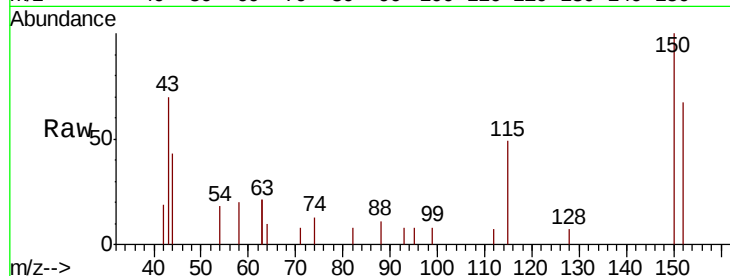
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.78 min Scan# 427  
Delta R.T. -0.01 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

Instrument :  
BNA\_E  
ClientSampleId :  
A0C1-TWPMSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.1 | 122.5 | 183.7 |
| 115     | 72.9  | 57.4  | 86.2  |

Manual Integrations  
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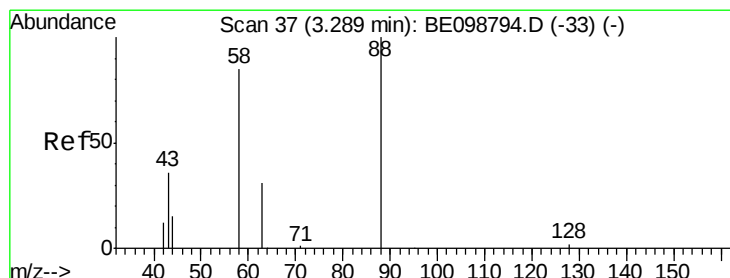
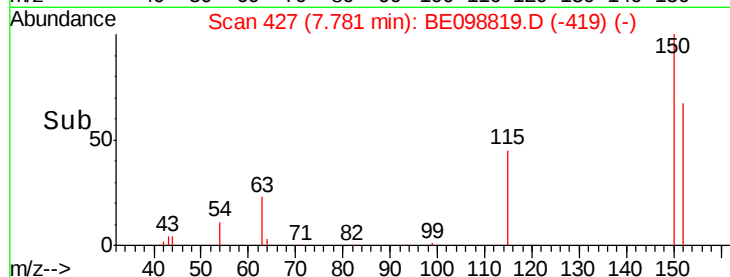
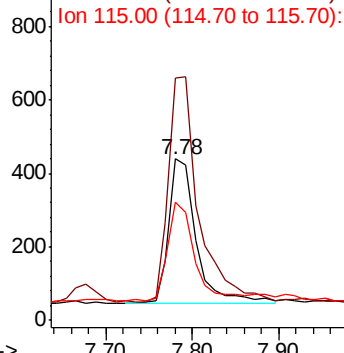


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

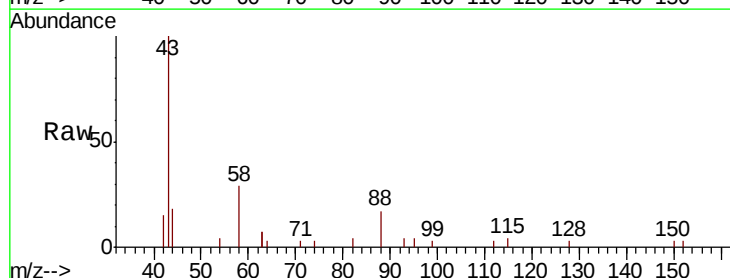
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane  
Concen: 0.078 ng  
RT: 3.28 min Scan# 36  
Delta R.T. -0.01 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 90.6  | 75.8  | 113.6 |
| 43      | 154.5 | 41.8  | 62.8# |

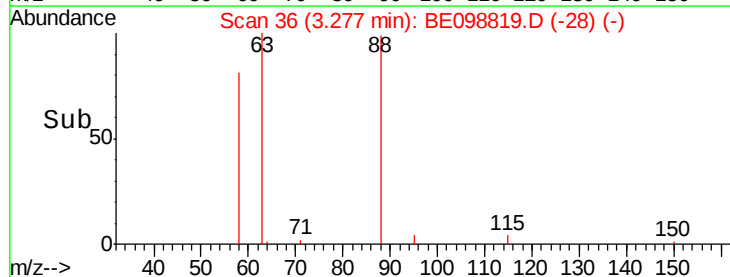
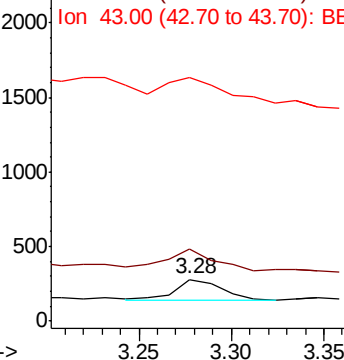


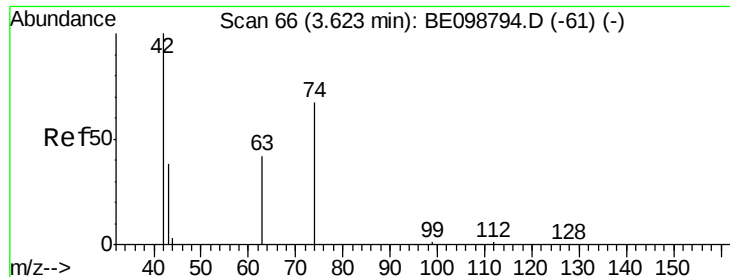
Abundance

Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

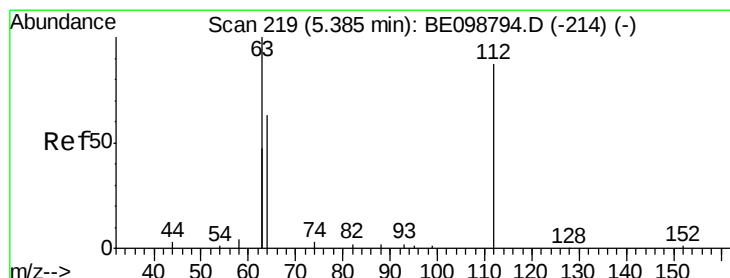
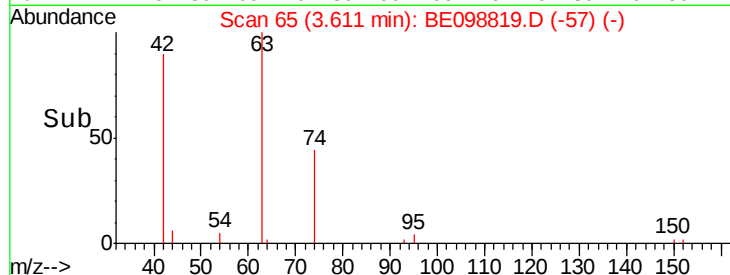
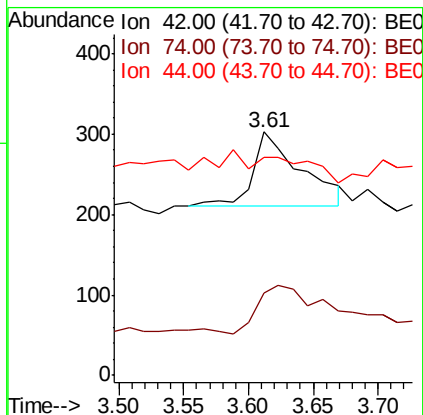
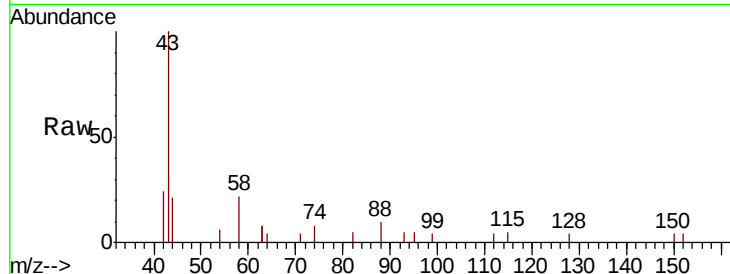
n-Nitrosodimethylamine  
 Concen: 0.109 ng  
 RT: 3.61 min Scan# 65  
 Delta R.T. -0.01 min  
 Lab File: BE098819.D  
 Acq: 7 Mar 2019 14:23

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A0C1-TWPMDS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 238   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 84.5  | 57.0  | 85.4  |
| 44       | 0.0   | 0.0   | 0.0   |

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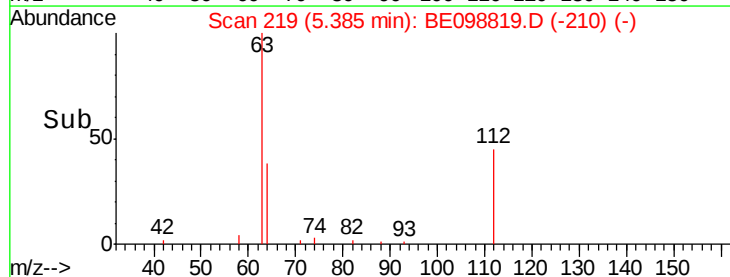
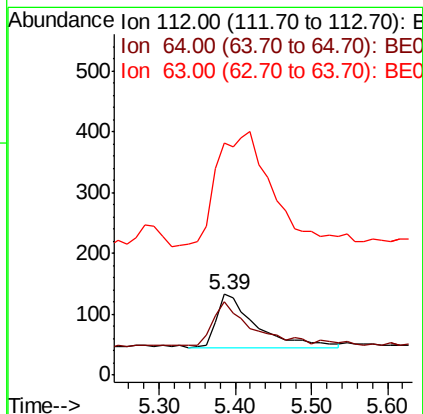
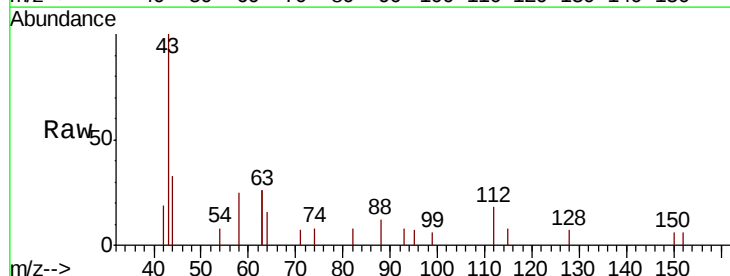
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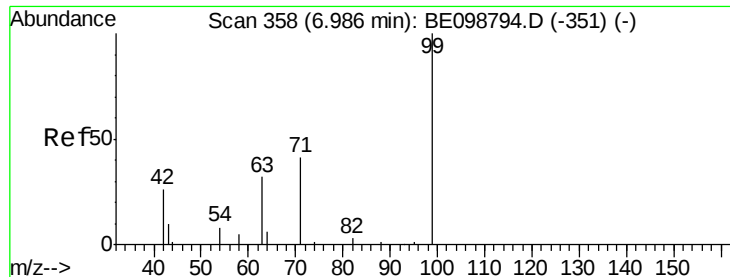


#4

2-Fluorophenol  
 Concen: 0.123 ng  
 RT: 5.39 min Scan# 219  
 Delta R.T. 0.00 min  
 Lab File: BE098819.D  
 Acq: 7 Mar 2019 14:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 321    |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 64       | 75.7  | 57.9  | 86.9   |
| 63       | 0.0   | 158.3 | 237.5# |





#5

Phenol-d6

Concen: 0.087 ng

RT: 6.97 min Scan# 357

Delta R.T. -0.01 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

Instrument :

BNA\_E

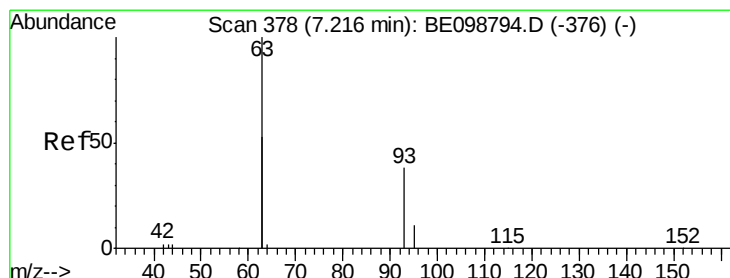
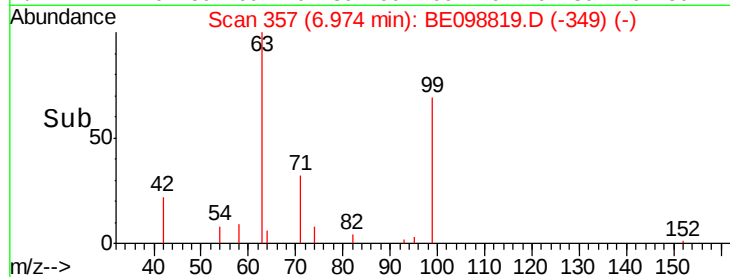
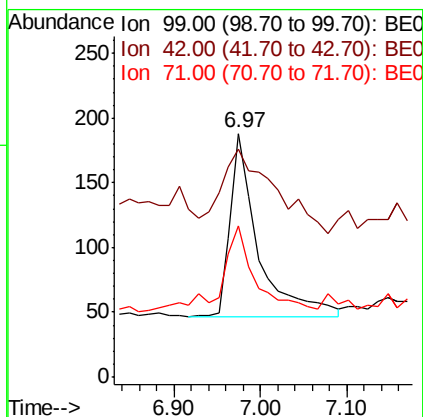
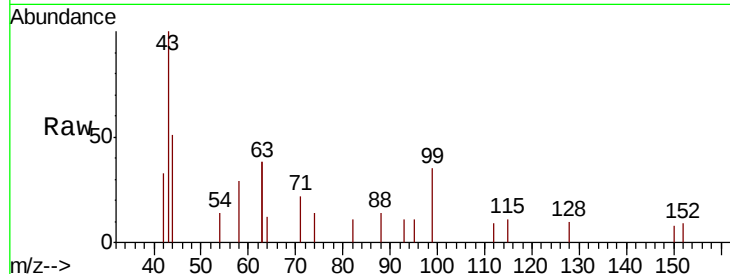
ClientSampleId :

A0C1-TWPMDS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 321   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 86.6  | 24.2  | 36.2# |
| 71       | 48.3  | 35.7  | 53.5  |

Manual Integrations  
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#6

bis(2-Chloroethyl)ether

Concen: 0.330 ng

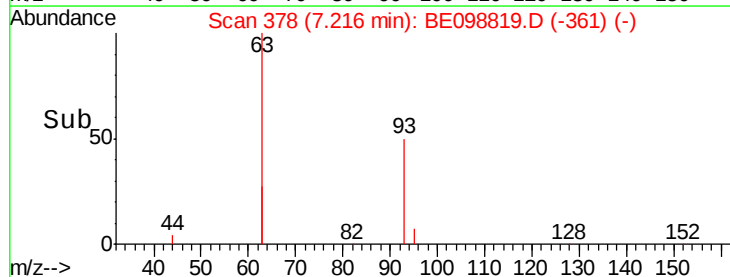
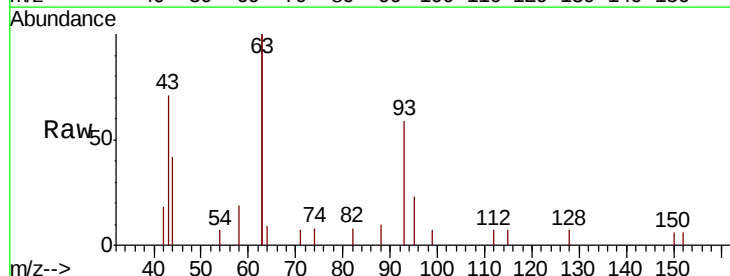
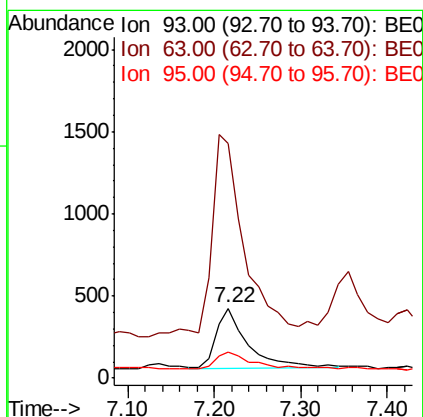
RT: 7.22 min Scan# 378

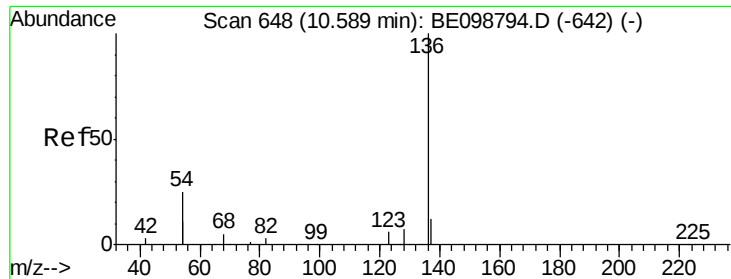
Delta R.T. 0.00 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 936   |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 351.6 | 247.5 | 371.3 |
| 95       | 34.1  | 21.8  | 32.8# |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.59 min Scan# 648

Delta R.T. -0.00 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

Instrument :

BNA\_E

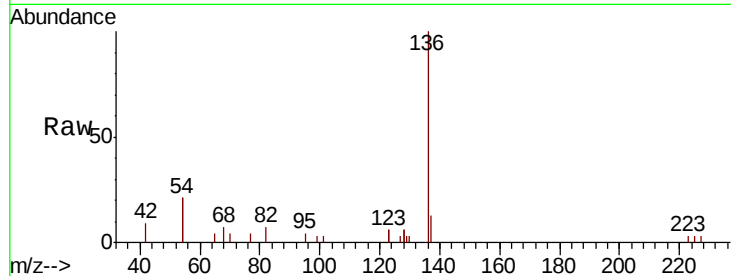
ClientSampleId :

A0C1-TWPMMSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 13.1  | 11.4  | 17.0  |
| 54      | 42.4  | 39.3  | 58.9  |
| 68      | 7.2   | 6.7   | 10.1  |

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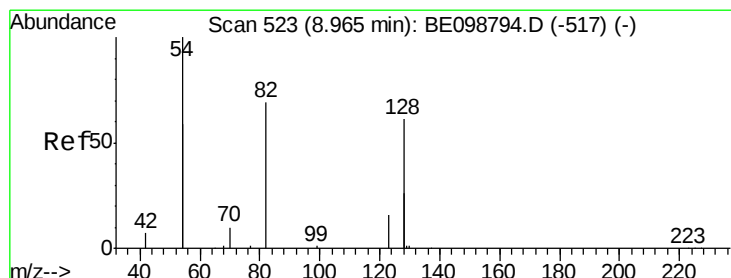
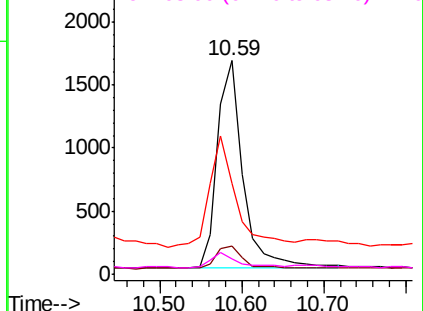
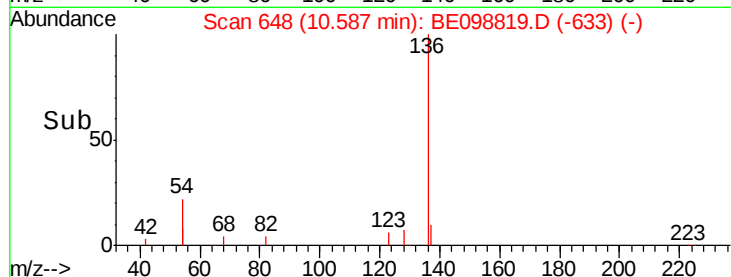
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.371 ng

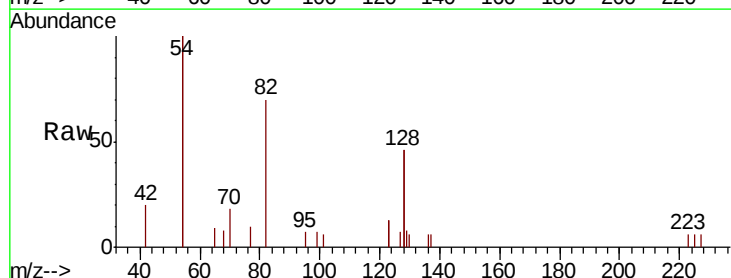
RT: 8.95 min Scan# 522

Delta R.T. -0.01 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 132.1 | 123.8 | 185.8 |
| 54      | 285.9 | 203.4 | 305.2 |

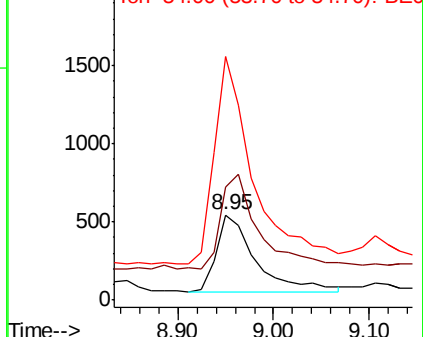
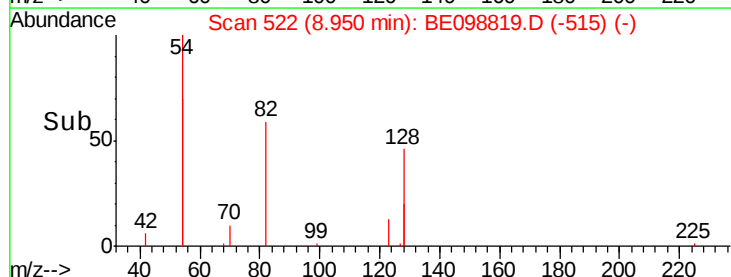


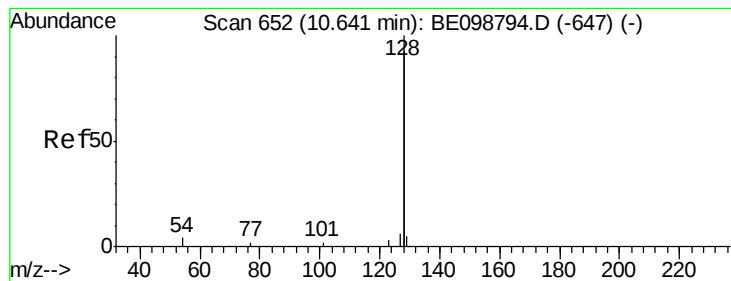
Abundance

Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.374 ng

RT: 10.63 min Scan# 651

Delta R.T. -0.01 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

Instrument :

BNA\_E

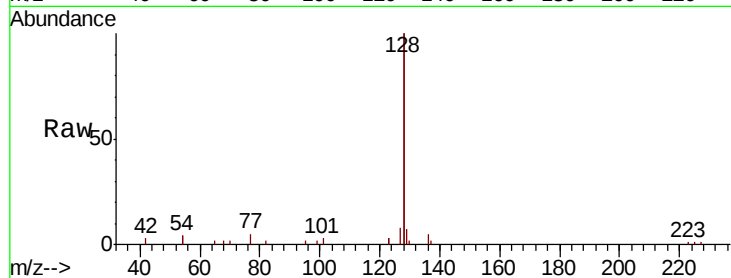
ClientSampleId :

A0C1-TWPMDS

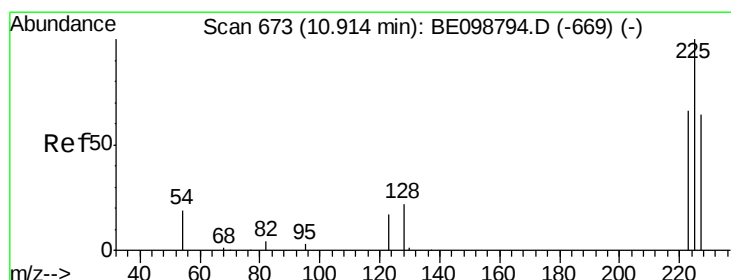
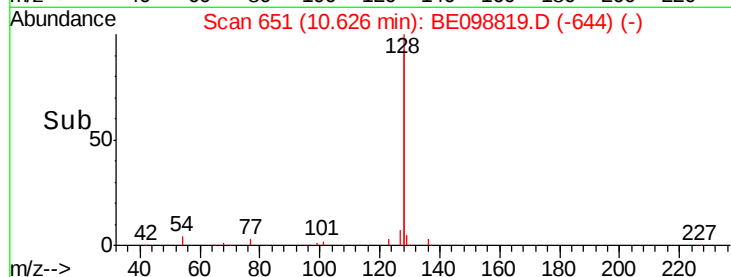
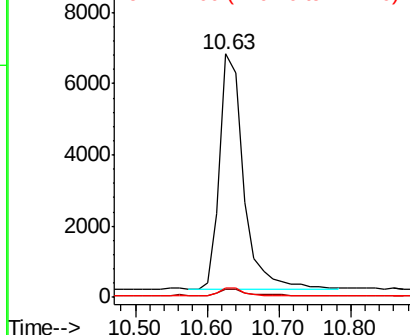
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 15391 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.5   | 2.6   | 4.0   |
| 127       | 4.1   | 3.1   | 4.7   |

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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.321 ng

RT: 10.91 min Scan# 673

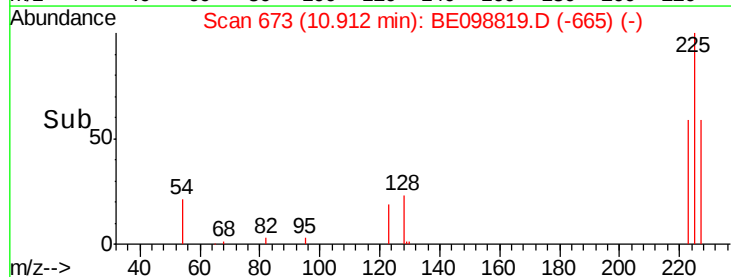
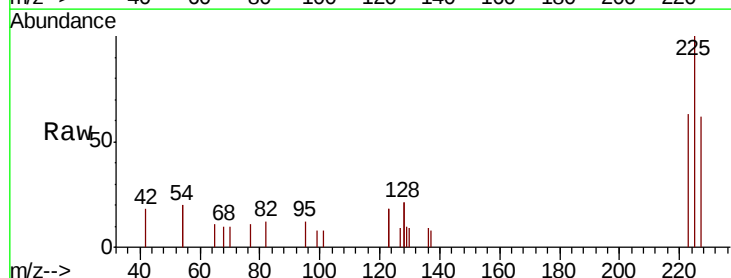
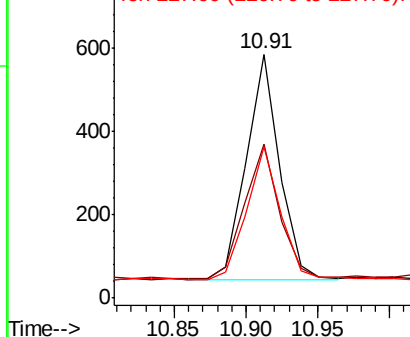
Delta R.T. -0.00 min

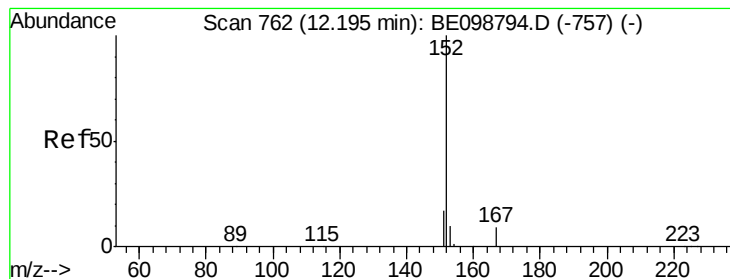
Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 874  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 62.6  | 51.1  | 76.7 |
| 227       | 60.4  | 51.6  | 77.4 |

Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E





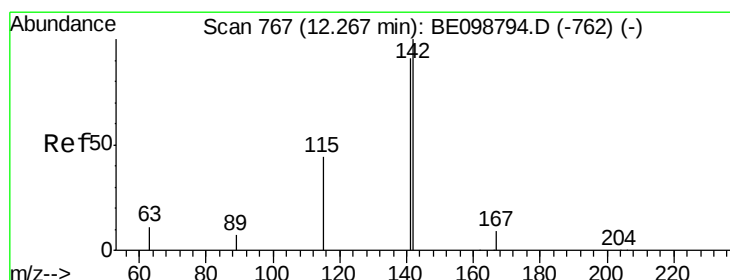
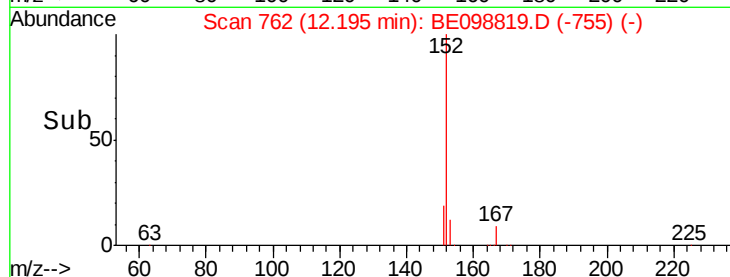
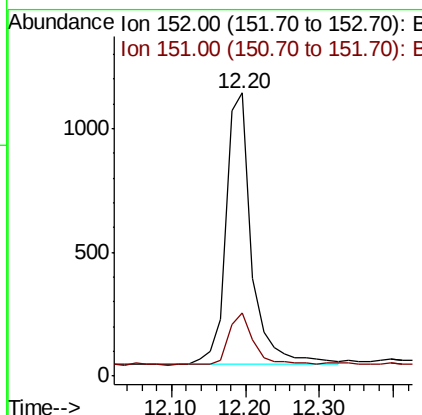
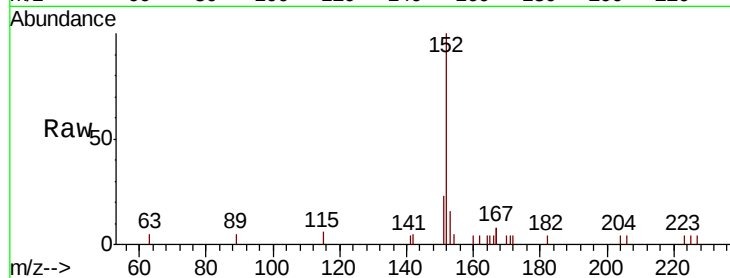
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.392 ng  
 RT: 12.20 min Scan# 762  
 Delta R.T. 0.00 min  
 Lab File: BE098819.D  
 Acq: 7 Mar 2019 14:23

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A0C1-TWPMSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 18.5  | 16.5  | 24.7  |

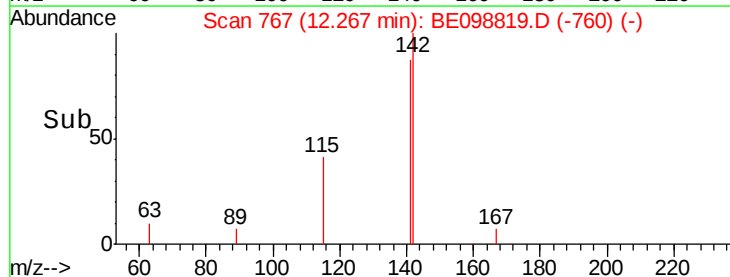
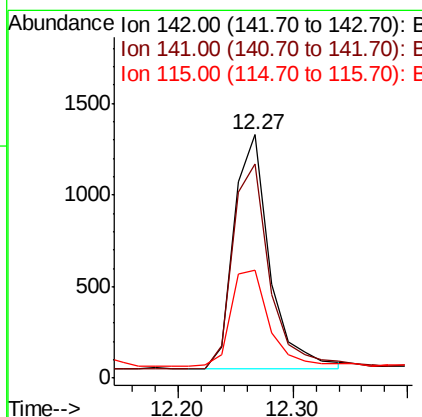
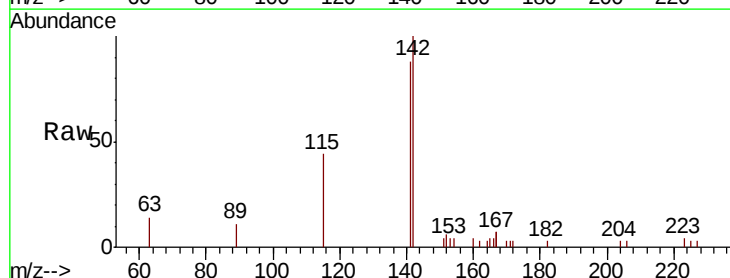
Manual Integrations  
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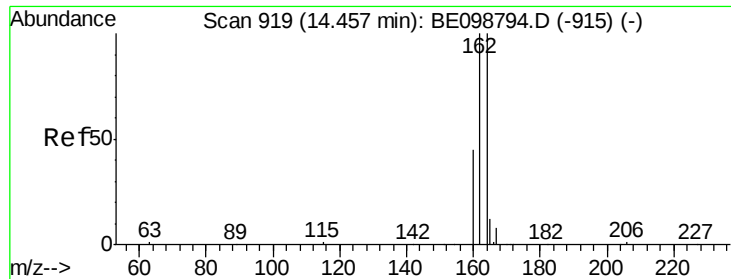
Sohil  
 3/8/2019 10:38:33 AM



#12  
 2-Methylnaphthalene  
 Concen: 0.412 ng  
 RT: 12.27 min Scan# 767  
 Delta R.T. 0.00 min  
 Lab File: BE098819.D  
 Acq: 7 Mar 2019 14:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.8  | 72.6  | 108.8 |
| 115     | 44.3  | 37.4  | 56.2  |





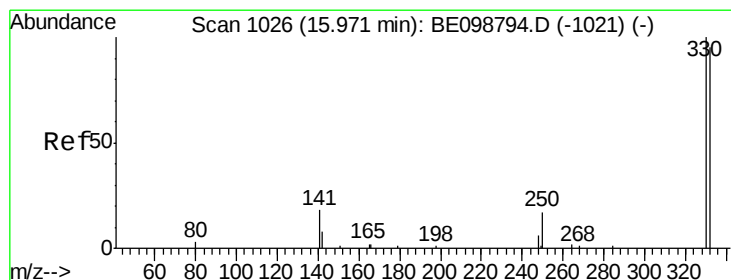
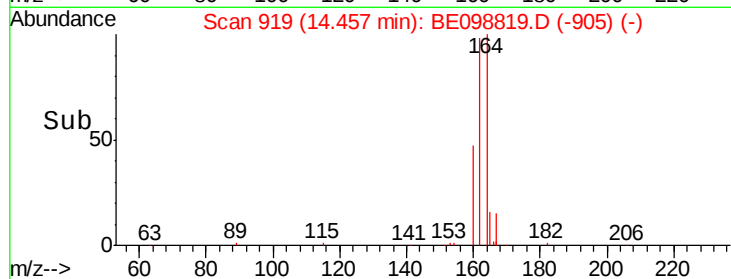
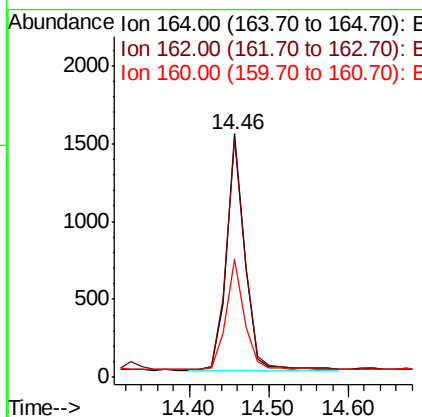
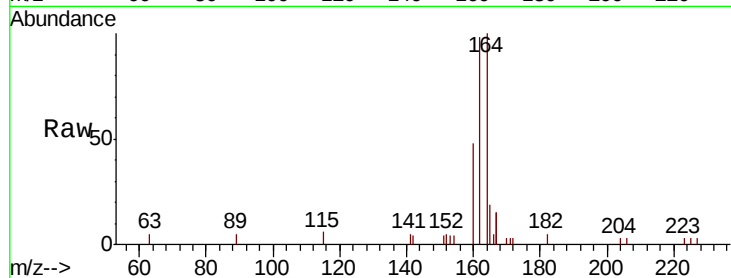
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.46 min Scan# 919  
Delta R.T. 0.00 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

Instrument :  
BNA\_E  
ClientSampleId :  
A0C1-TWPMDS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 98.1  | 80.2  | 120.2 |
| 160     | 48.5  | 37.8  | 56.8  |

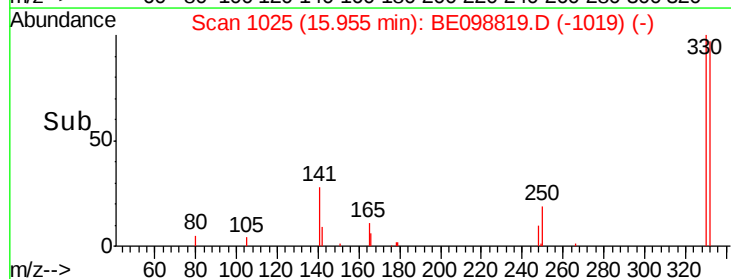
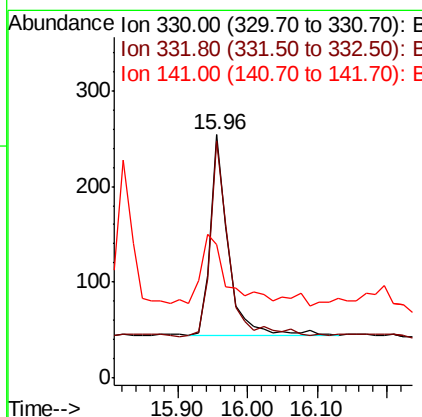
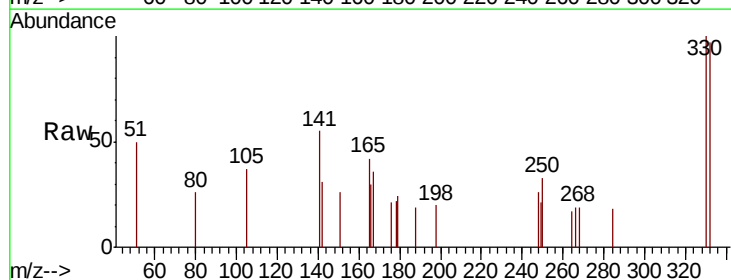
Manual Integrations  
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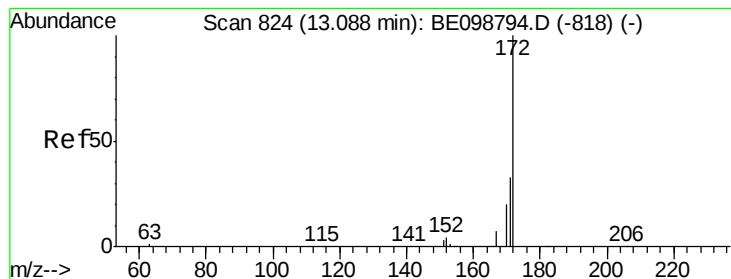
Sohil  
3/8/2019 10:38:33 AM



#14  
2,4,6-Tribromophenol  
Concen: 0.315 ng  
RT: 15.96 min Scan# 1025  
Delta R.T. -0.02 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 100.3 | 77.6  | 116.4 |
| 141     | 46.6  | 31.0  | 46.4  |





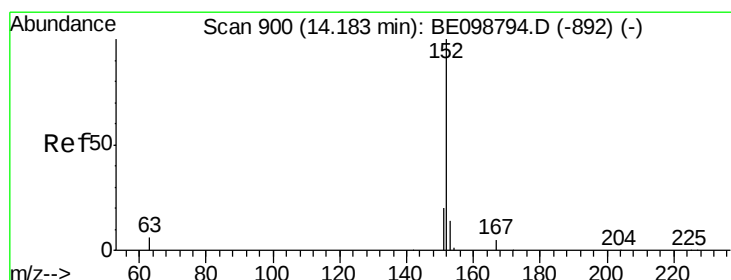
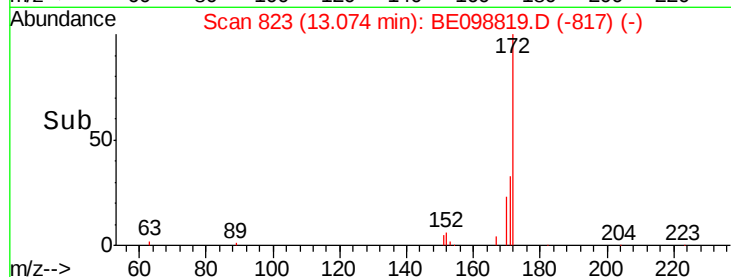
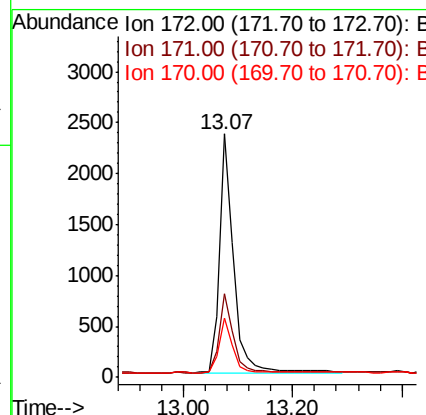
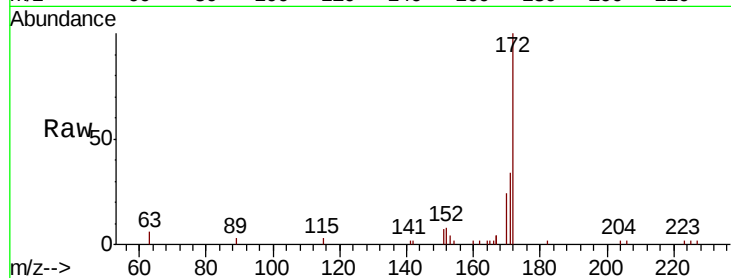
#15  
2-Fluorobiphenyl  
Concen: 0.431 ng  
RT: 13.07 min Scan# 823  
Delta R.T. -0.01 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

Instrument :  
BNA\_E  
ClientSampleId :  
A0C1-TWPMDS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.1  | 28.0  | 42.0  |
| 170     | 24.4  | 17.7  | 26.5  |

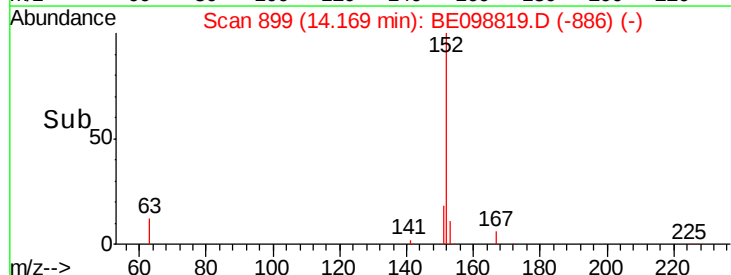
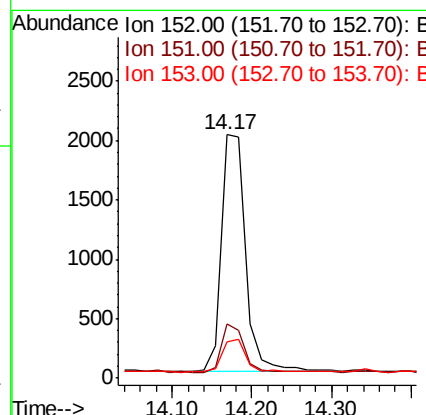
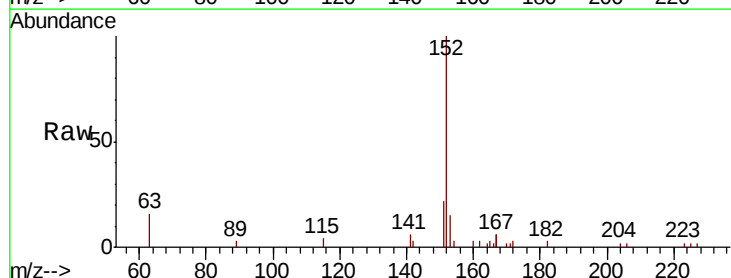
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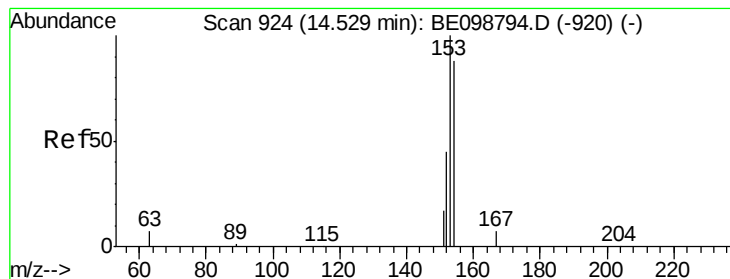
Sohil  
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#16  
Acenaphthylene  
Concen: 0.343 ng  
RT: 14.17 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 18.6  | 17.0  | 25.6  |
| 153     | 13.3  | 11.2  | 16.8  |





#17

Acenaphthene

Concen: 0.341 ng

RT: 14.51 min Scan# 923

Delta R.T. -0.01 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

Instrument :

BNA\_E

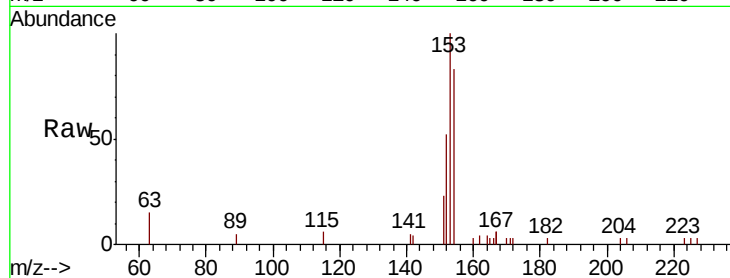
ClientSampleId :

A0C1-TWPMDS

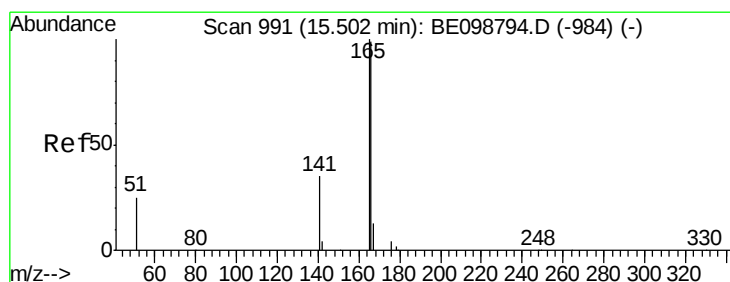
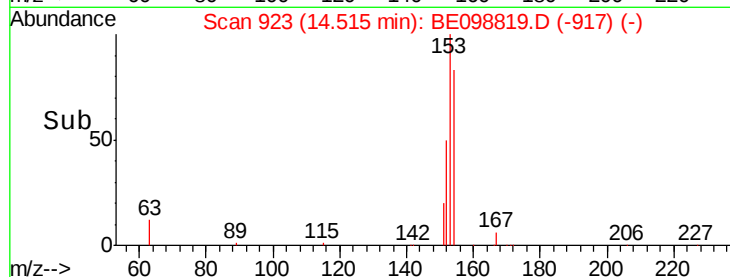
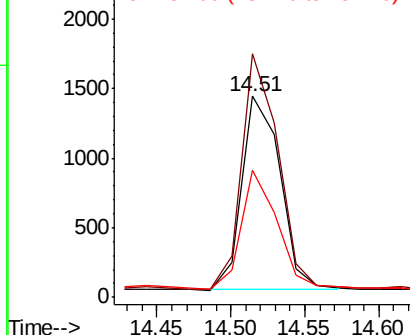
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 154   | Resp: | 2502  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 115.7 | 94.2  | 141.4 |
| 152      | 57.2  | 45.0  | 67.4  |

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Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.354 ng

RT: 15.50 min Scan# 991

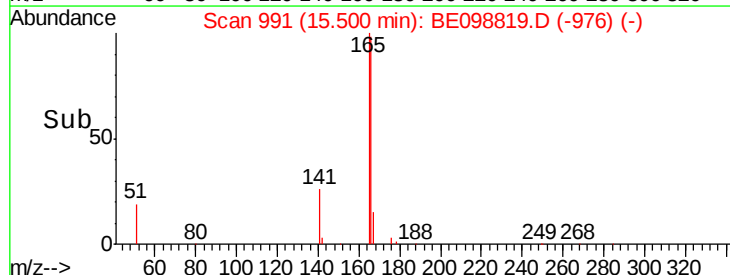
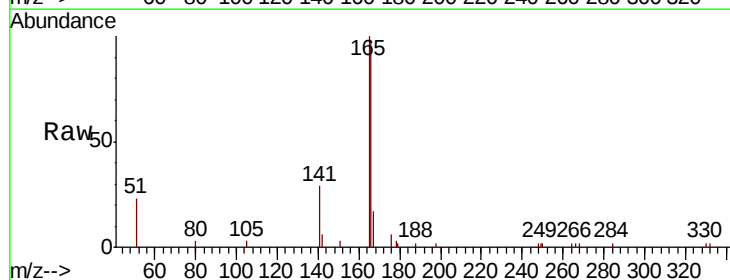
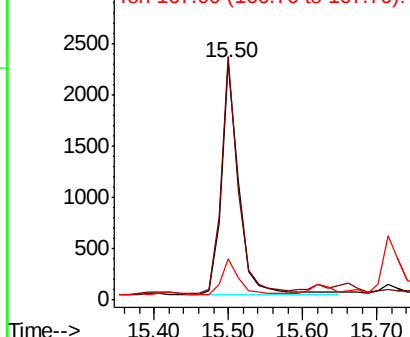
Delta R.T. -0.00 min

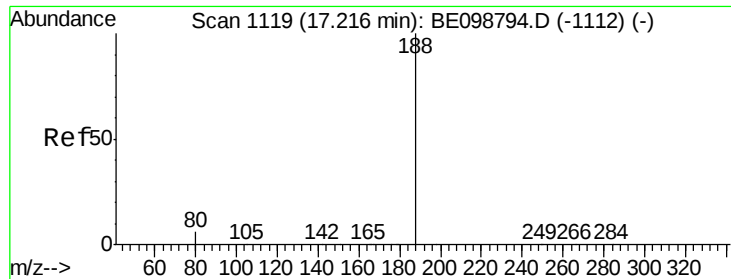
Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 3749  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 96.9  | 79.3  | 118.9 |
| 167      | 14.6  | 10.5  | 15.7  |

Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





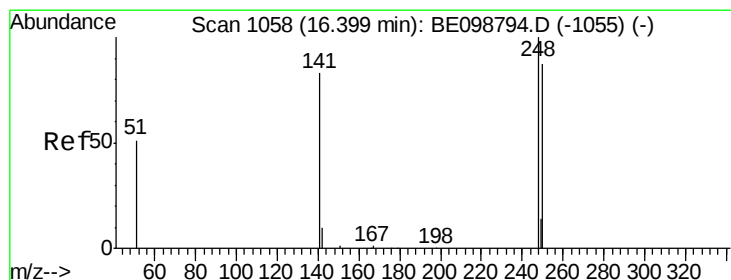
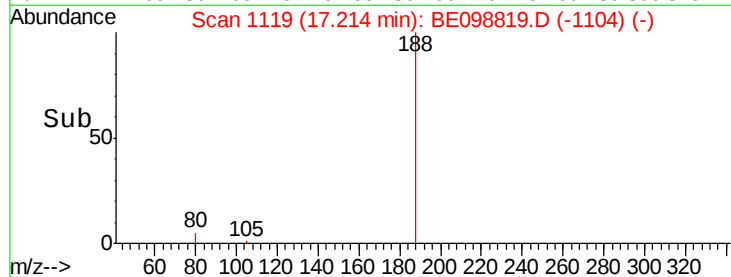
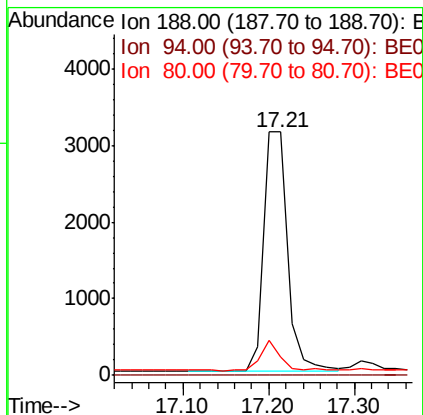
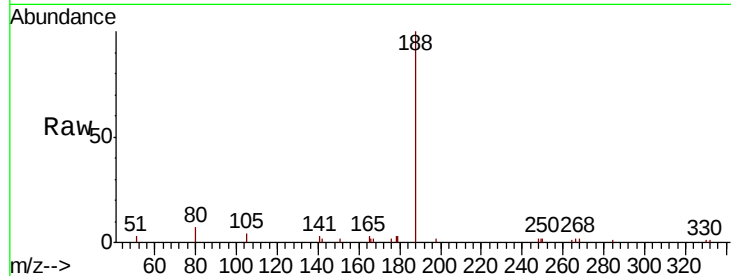
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.21 min Scan# 1119  
Delta R.T. -0.00 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

Instrument :  
BNA\_E  
ClientSampleId :  
A0C1-TWPMDS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 188   | Resp: | 6056 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 7.4   | 6.3   | 9.5  |

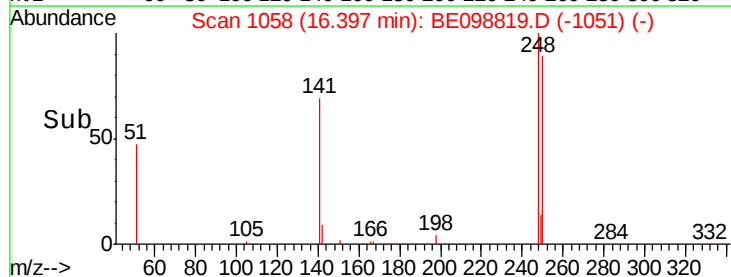
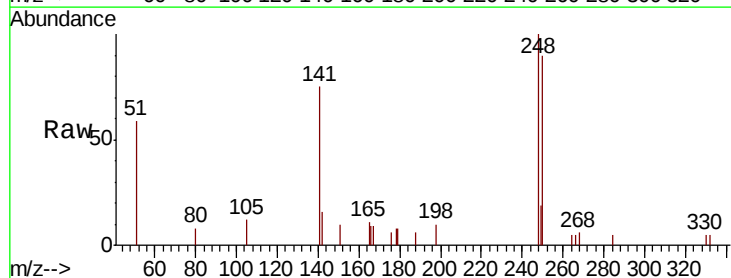
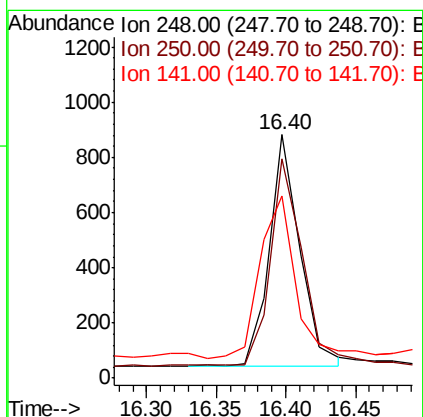
Manual Integrations  
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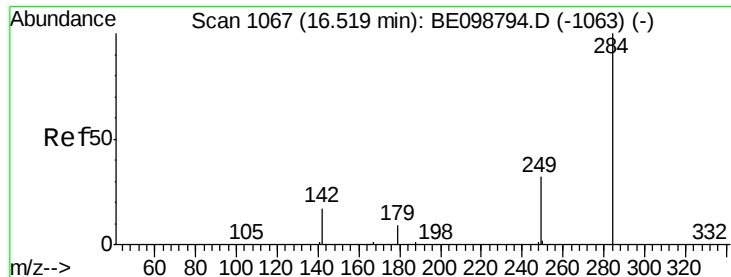
Sohil  
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#20  
4-Bromophenyl-phenylether  
Concen: 0.390 ng  
RT: 16.40 min Scan# 1058  
Delta R.T. -0.00 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 1279  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 90.0  | 70.6  | 105.8 |
| 141       | 74.6  | 68.6  | 102.8 |





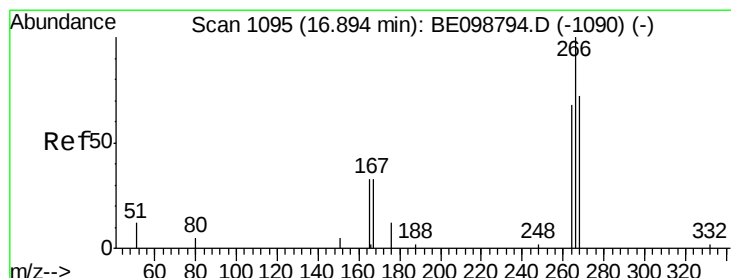
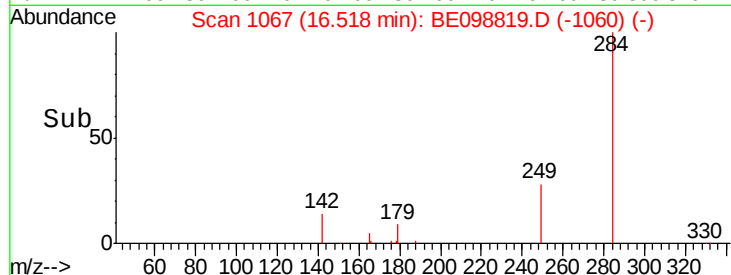
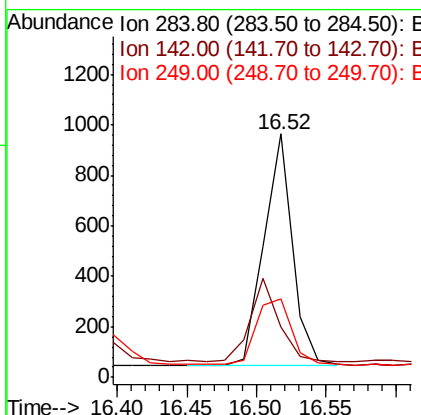
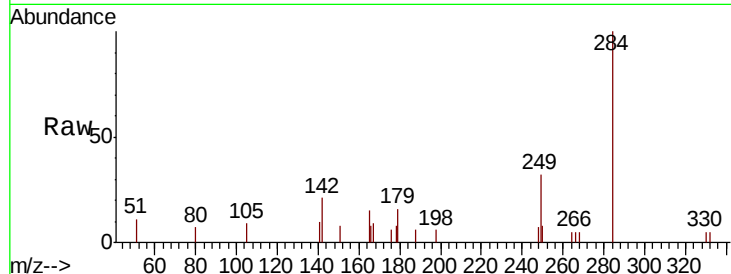
#21  
Hexachlorobenzene  
Concen: 0.338 ng  
RT: 16.52 min Scan# 1067  
Delta R.T. -0.00 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

Instrument :  
BNA\_E  
ClientSampleId :  
A0C1-TWPMSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 284   | Resp: | 1321 |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 36.0  | 28.7  | 43.1 |
| 249       | 34.3  | 29.6  | 44.4 |

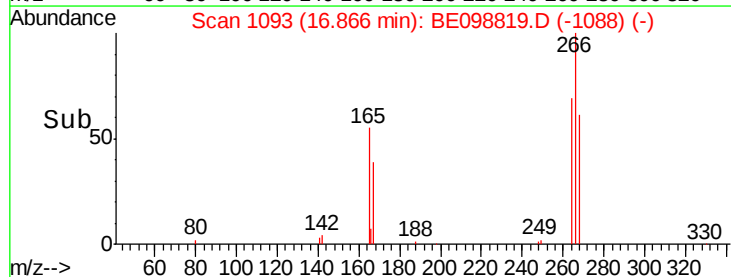
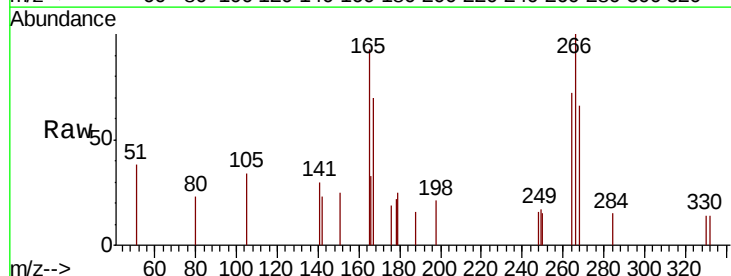
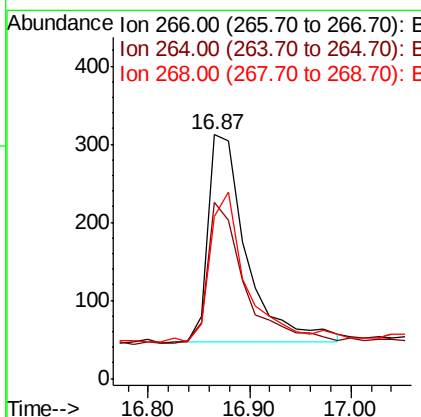
Manual Integrations  
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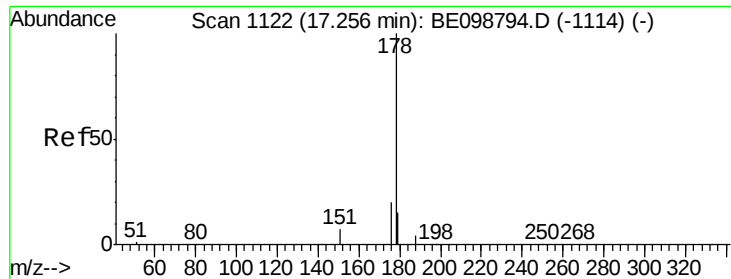
Sohil  
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#22  
Pentachlorophenol  
Concen: 0.788 ng  
RT: 16.87 min Scan# 1093  
Delta R.T. -0.03 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 266   | Resp: | 696    |
| Ion Ratio | Lower | Upper |        |
| 266       | 100   |       |        |
| 264       | 72.4  | 66.6  | 100.0  |
| 268       | 66.3  | 69.8  | 104.8# |





#23

Phenanthrene

Concen: 0.382 ng

RT: 17.25 min Scan# 1122

Delta R.T. -0.00 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

Instrument :

BNA\_E

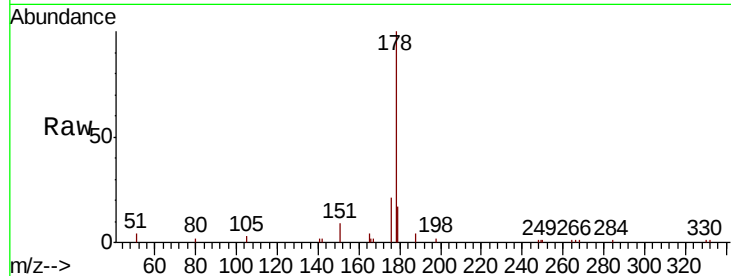
ClientSampleId :

A0C1-TWPMDS

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 6577      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 20.3  | 16.0 24.0 |
| 179         | 17.2  | 12.1 18.1 |

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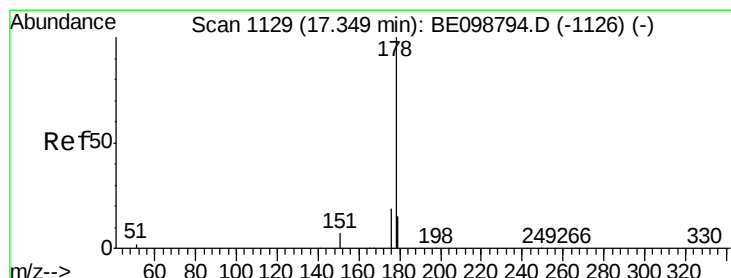
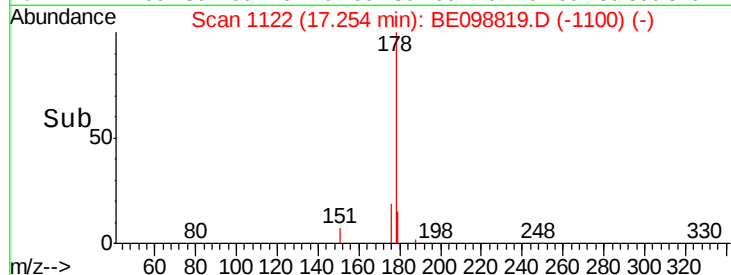
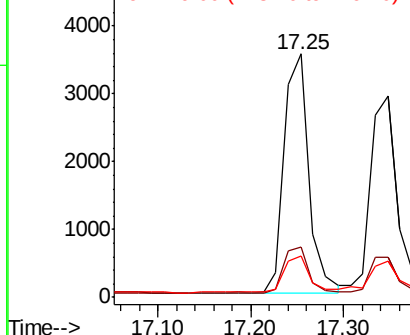


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.374 ng

RT: 17.35 min Scan# 1129

Delta R.T. -0.00 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

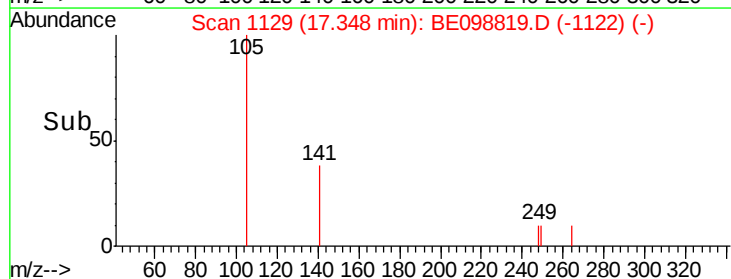
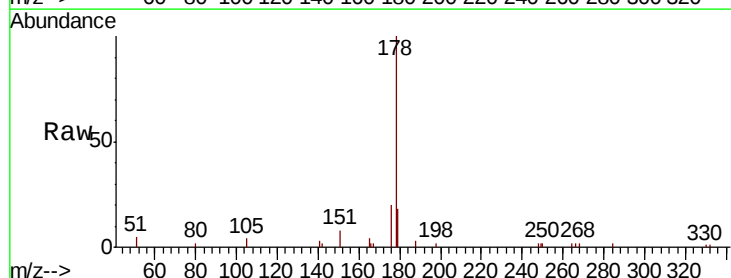
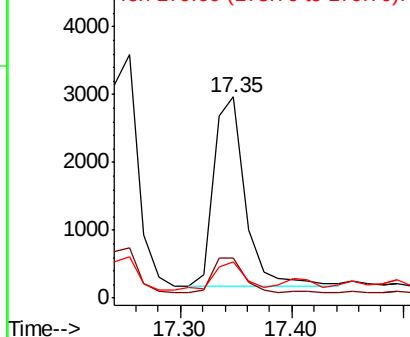
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 5506      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 19.1  | 15.4 23.0 |
| 179         | 14.6  | 12.2 18.4 |

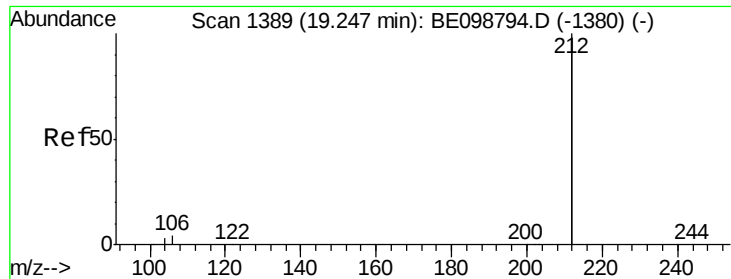
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.393 ng

RT: 19.24 min Scan# 1388

Delta R.T. -0.01 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

Instrument :

BNA\_E

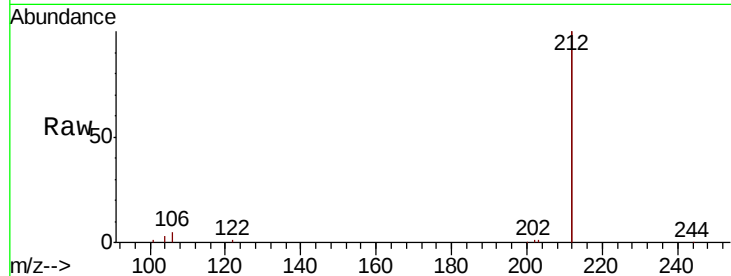
ClientSampleId :

A0C1-TWPMDS

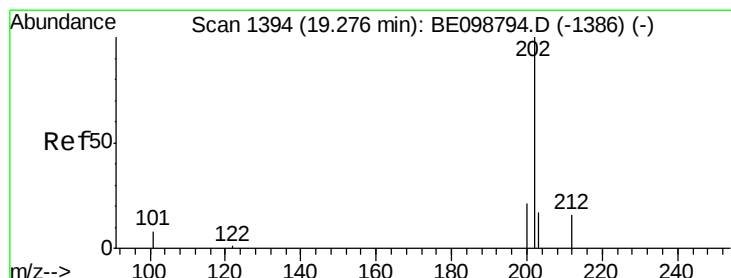
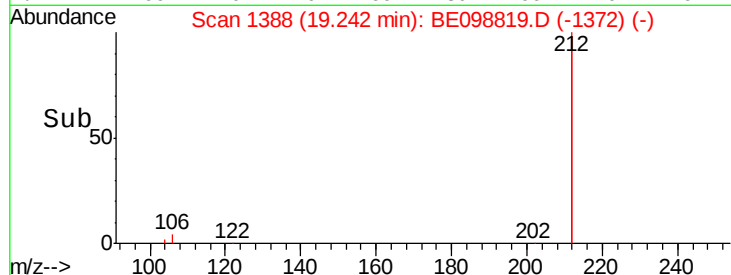
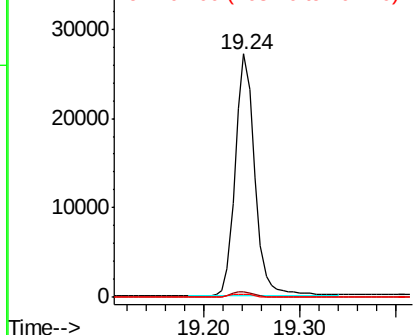
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 38022 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 2.3   | 1.8   | 2.8   |
| 104       | 1.4   | 1.0   | 1.6   |

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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



#26

Fluoranthene

Concen: 0.353 ng

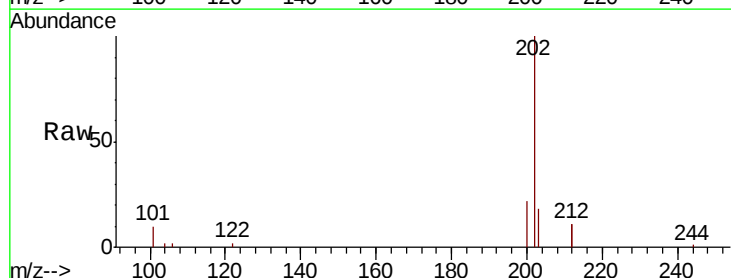
RT: 19.27 min Scan# 1393

Delta R.T. -0.01 min

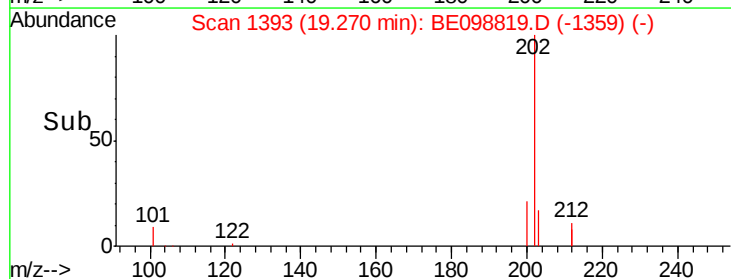
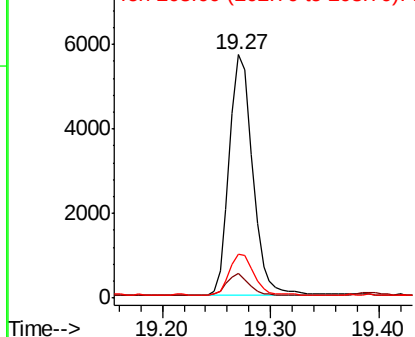
Lab File: BE098819.D

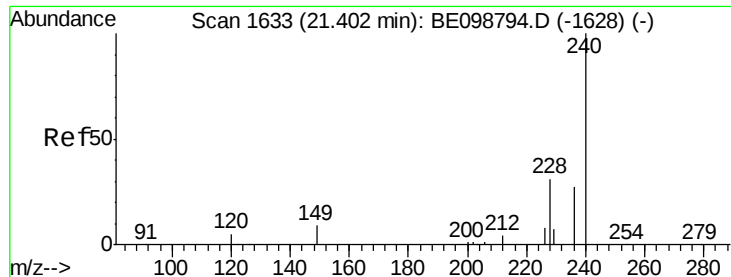
Acq: 7 Mar 2019 14:23

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 8576 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 8.8   | 7.3   | 10.9 |
| 203       | 17.4  | 13.4  | 20.2 |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





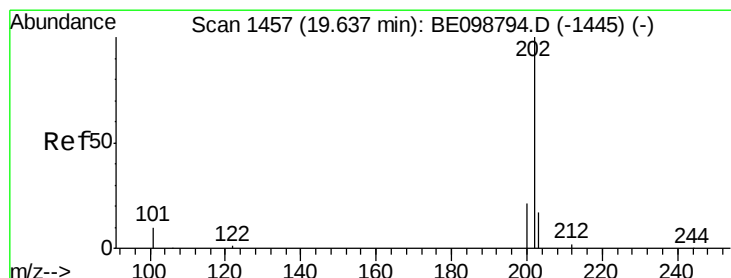
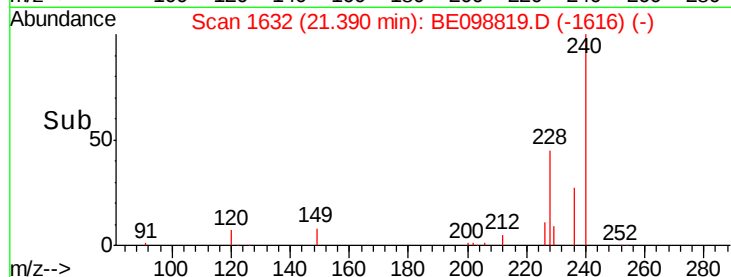
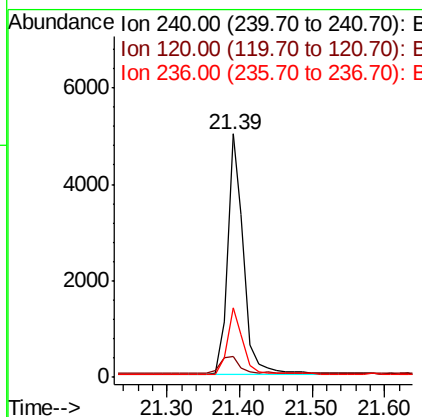
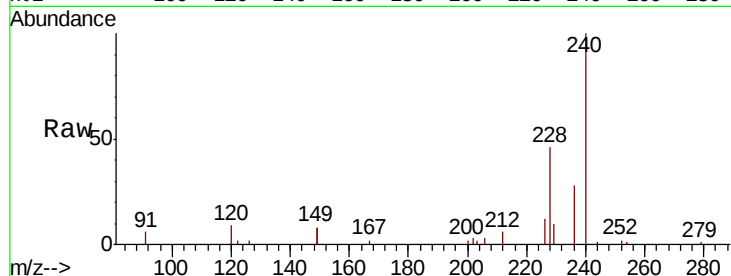
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.39 min Scan# 1632  
Delta R.T. -0.01 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

Instrument :  
BNA\_E  
ClientSampleId :  
A0C1-TWPMDS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 8.6   | 5.0   | 7.4#  |
| 236     | 28.4  | 22.7  | 34.1  |

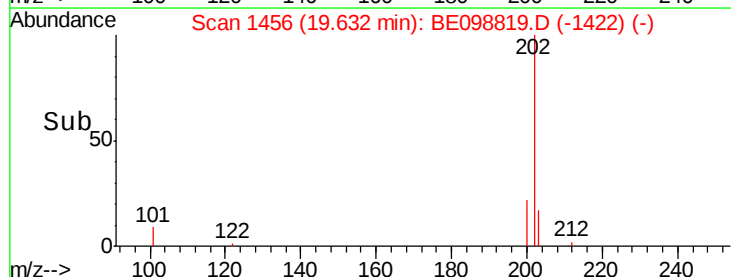
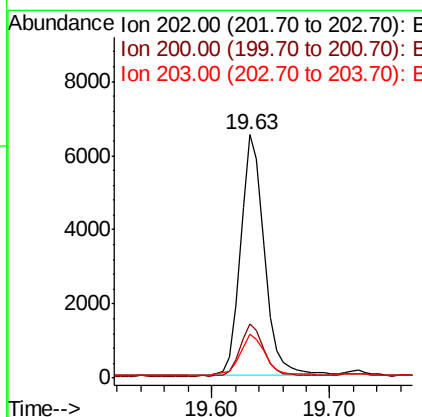
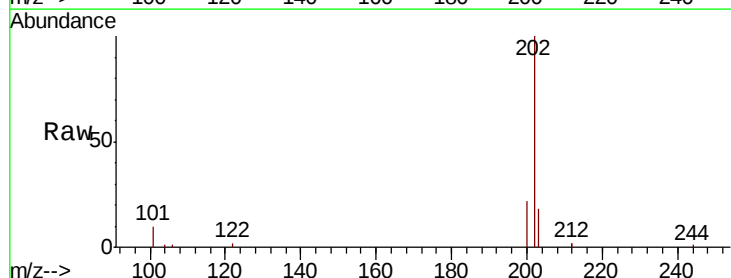
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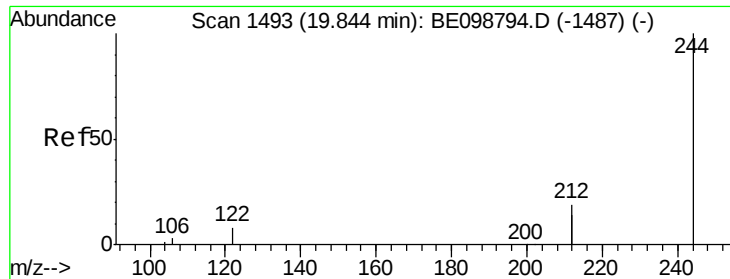
Sohil  
3/8/2019 10:38:33 AM



#28  
Pyrene  
Concen: 0.383 ng  
RT: 19.63 min Scan# 1456  
Delta R.T. -0.01 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.8  | 17.0  | 25.6  |
| 203     | 18.4  | 14.2  | 21.2  |





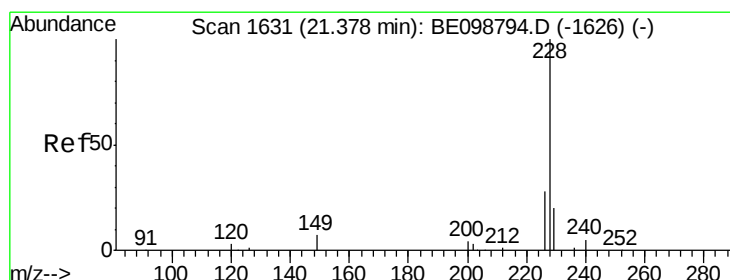
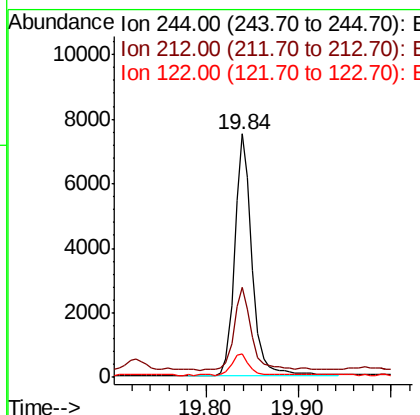
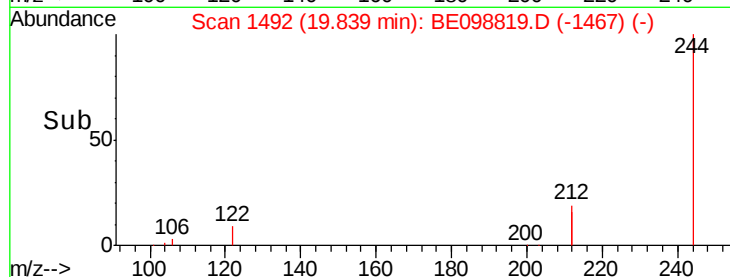
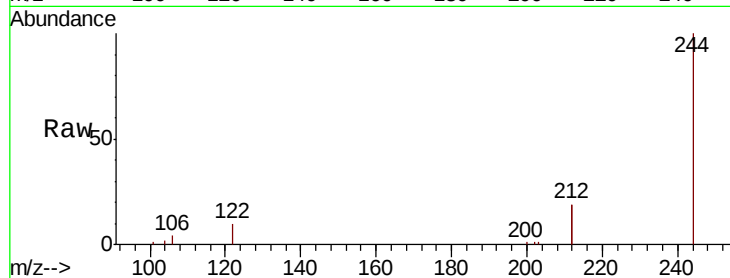
#29  
 Terphenyl-d14  
 Concen: 0.518 ng  
 RT: 19.84 min Scan# 1492  
 Delta R.T. -0.01 min  
 Lab File: BE098819.D  
 Acq: 7 Mar 2019 14:23

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A0C1-TWPMSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 37.1  | 29.4  | 44.2  |
| 122     | 9.6   | 7.1   | 10.7  |

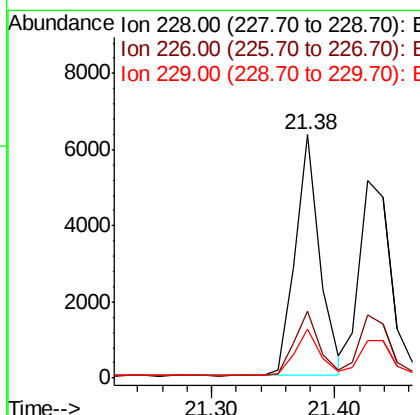
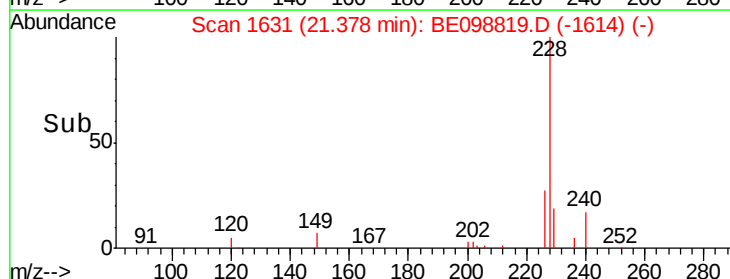
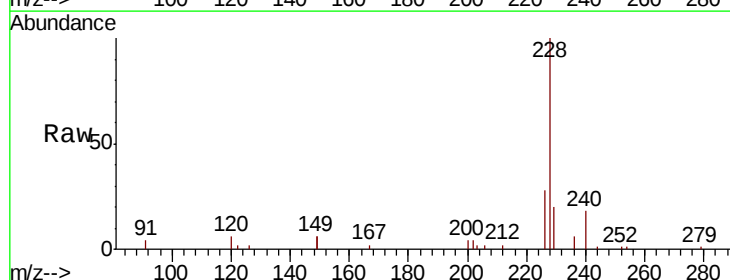
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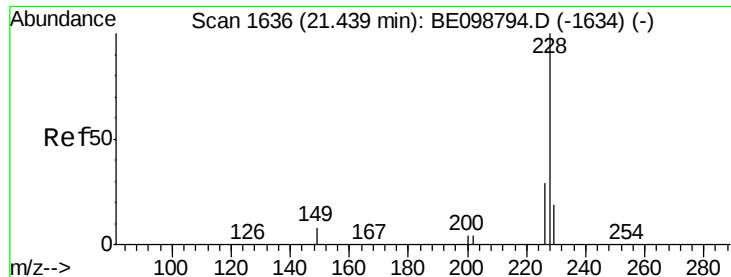
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#30  
 Benzo(a)anthracene  
 Concen: 0.363 ng  
 RT: 21.38 min Scan# 1631  
 Delta R.T. 0.00 min  
 Lab File: BE098819.D  
 Acq: 7 Mar 2019 14:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.6  | 23.0  | 34.4  |
| 229     | 20.2  | 16.5  | 24.7  |





#31

Chrysene

Concen: 0.347 ng

RT: 21.43 min Scan# 1635

Delta R.T. -0.01 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

Instrument :

BNA\_E

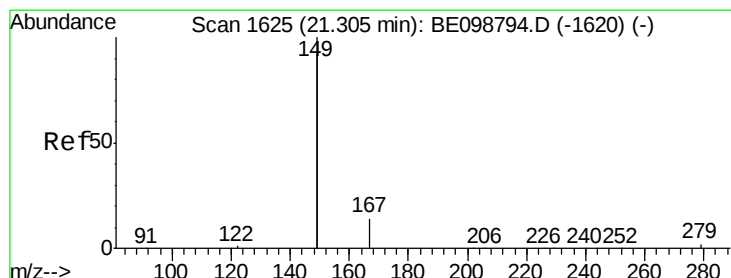
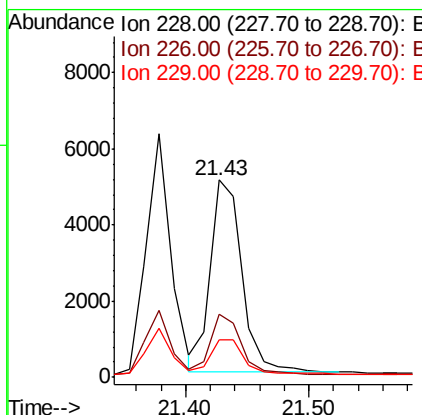
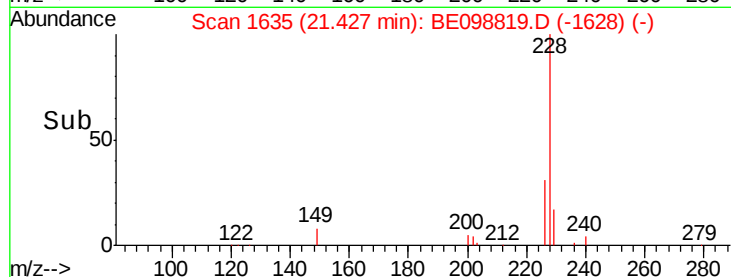
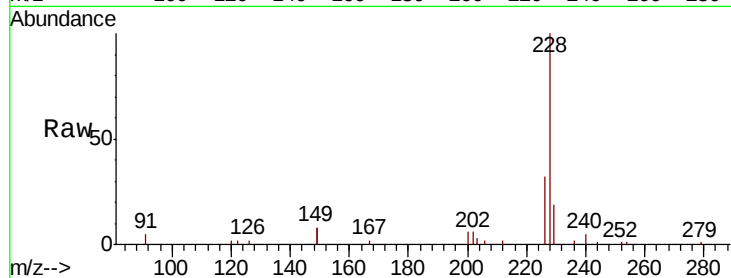
ClientSampleId :

A0C1-TWPMDS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 8990  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 31.9  | 23.7  | 35.5  |
| 229      | 18.9  | 16.1  | 24.1  |

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.367 ng

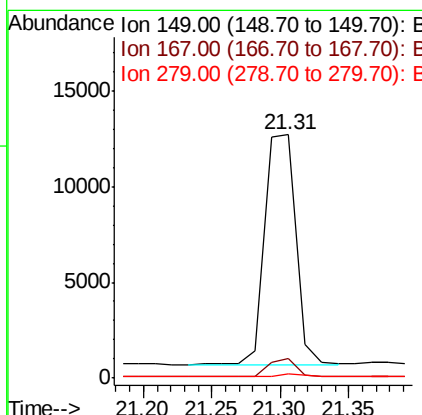
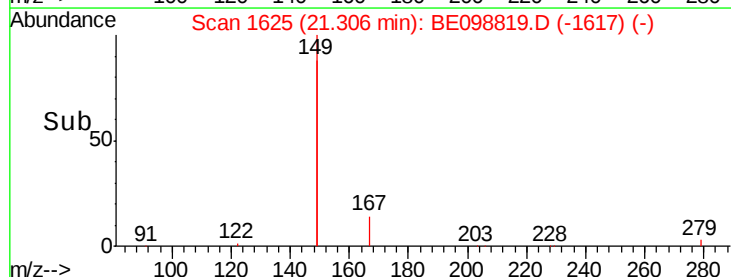
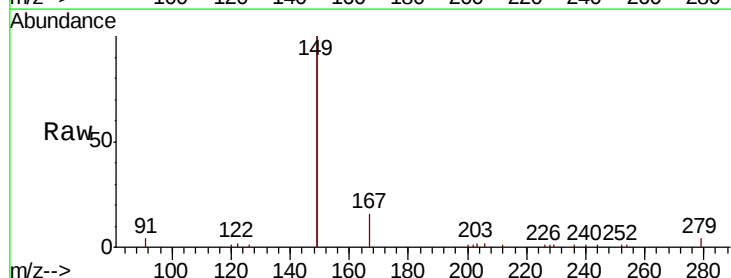
RT: 21.31 min Scan# 1625

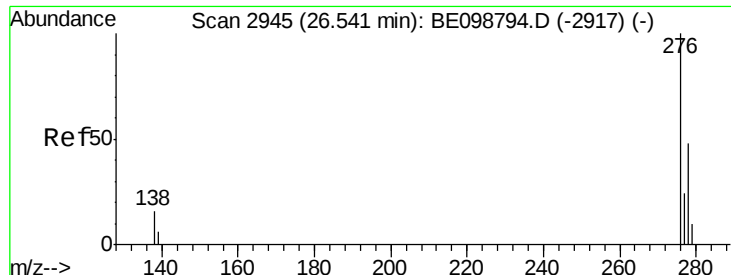
Delta R.T. 0.00 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 18928 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 167      | 6.7   | 5.4   | 8.0   |
| 279      | 1.1   | 1.0   | 1.4   |





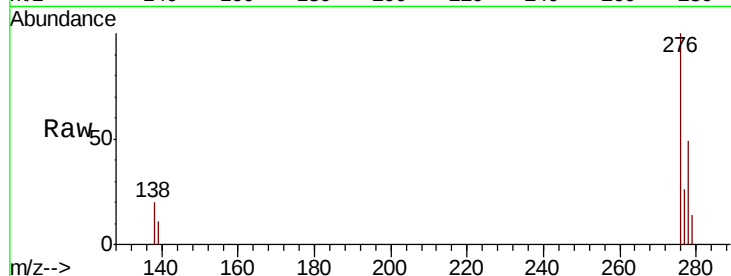
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.298 ng  
RT: 26.53 min Scan# 2942  
Delta R.T. -0.01 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

Instrument :  
BNA\_E  
ClientSampleId :  
A0C1-TWPMDS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 8.7   | 13.8  | 20.8# |
| 277     | 24.3  | 19.5  | 29.3  |

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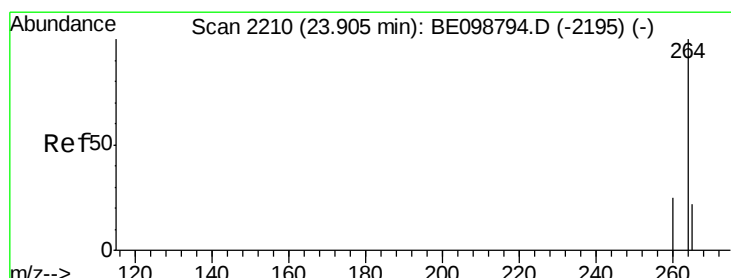
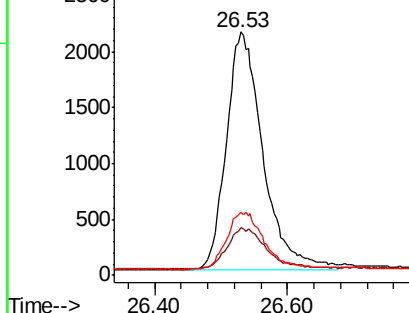
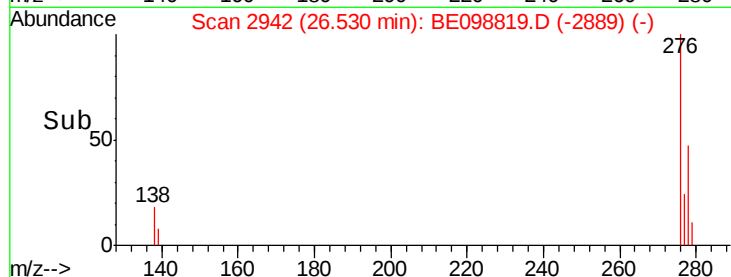


Abundance

Ion 276.00 (275.70 to 276.70): E

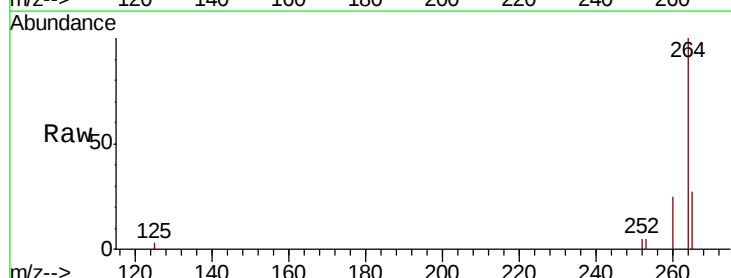
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.90 min Scan# 2209  
Delta R.T. -0.00 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.3  | 21.2  | 31.8  |
| 265     | 27.4  | 24.6  | 36.8  |

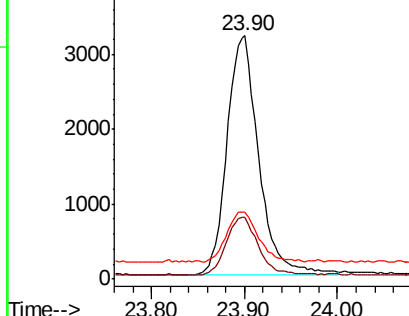
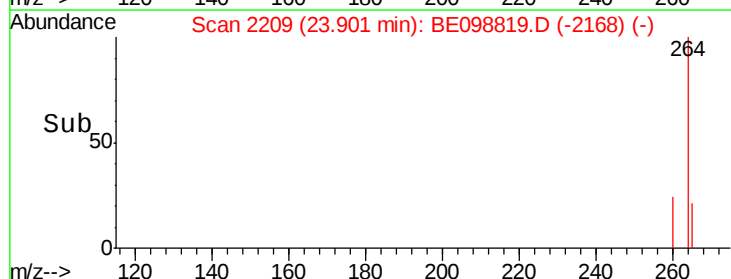


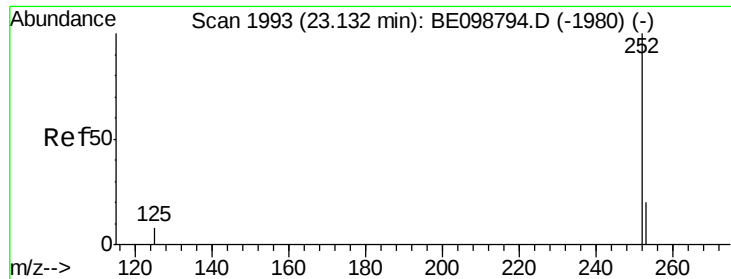
Abundance

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





#35

Benzo(b)fluoranthene

Concen: 0.341 ng m

RT: 23.13 min Scan# 1993

Delta R.T. -0.00 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

Instrument :

BNA\_E

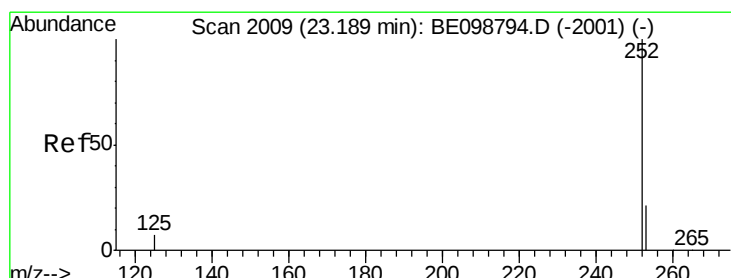
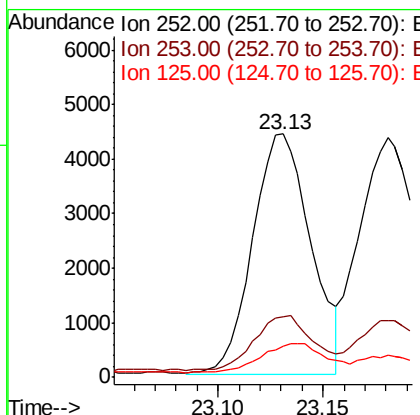
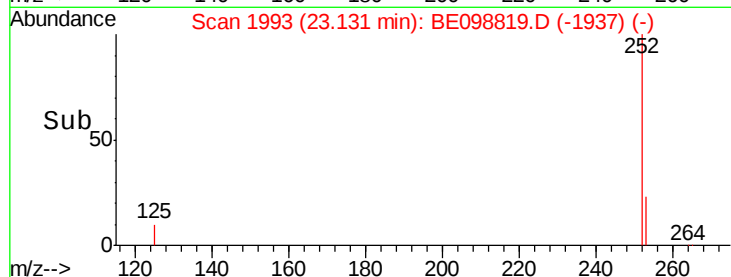
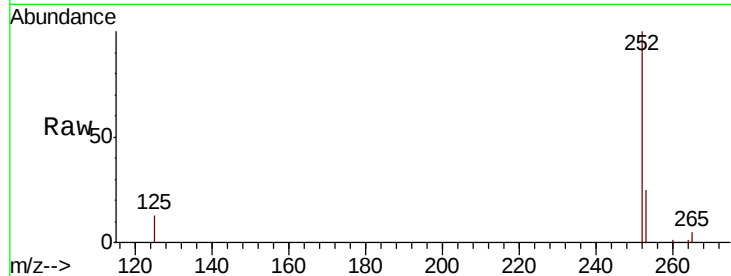
ClientSampleId :

A0C1-TWPMSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.1  | 18.2  | 27.2  |
| 125     | 12.6  | 7.3   | 10.9  |

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#36

Benzo(k)fluoranthene

Concen: 0.346 ng

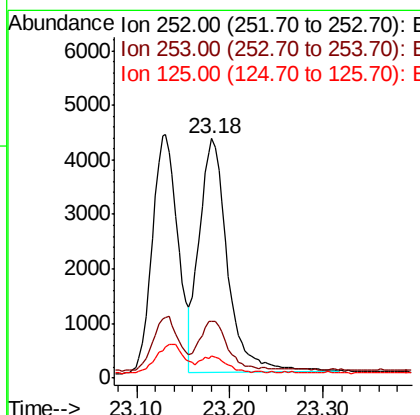
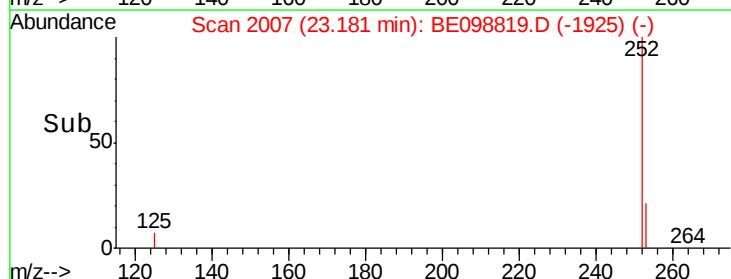
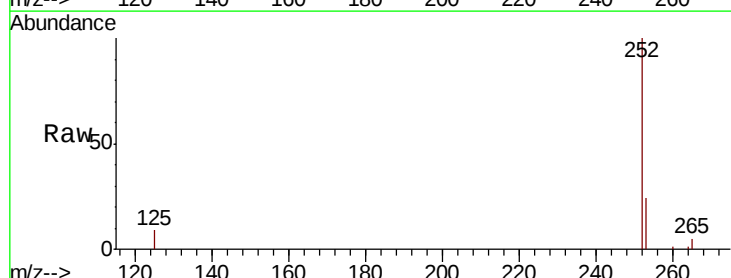
RT: 23.18 min Scan# 2007

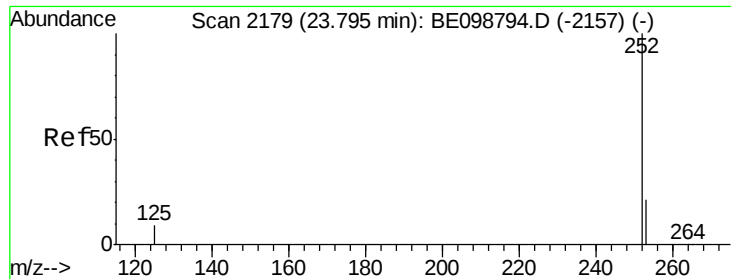
Delta R.T. -0.01 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 19.3  | 28.9  |
| 125     | 9.4   | 7.5   | 11.3  |





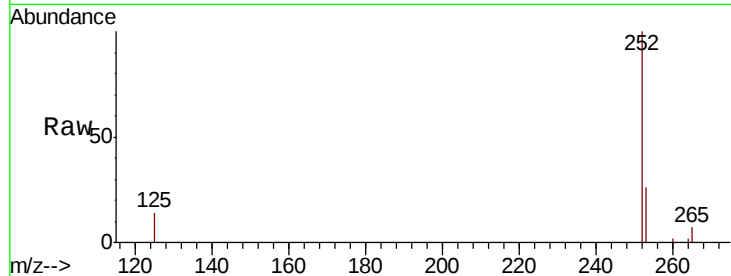
#37  
Benzo(a)pyrene  
Concen: 0.317 ng  
RT: 23.79 min Scan# 2177  
Delta R.T. -0.01 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

Instrument :  
BNA\_E  
ClientSampleId :  
A0C1-TWPMDS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.6  | 19.9  | 29.9  |
| 125     | 13.6  | 9.0   | 13.4  |

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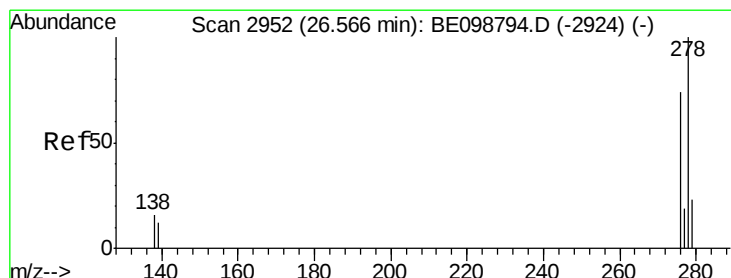
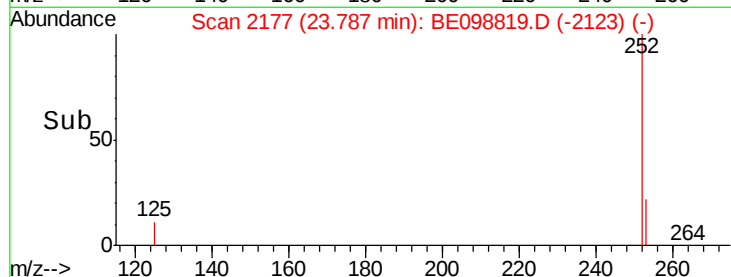
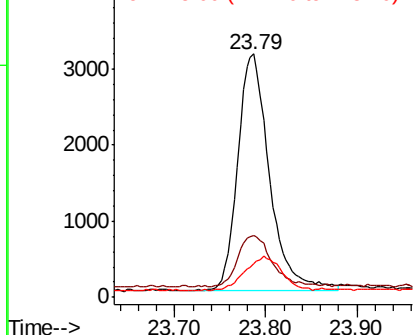


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38  
Dibenzo(a,h)anthracene  
Concen: 0.293 ng  
RT: 26.55 min Scan# 2949  
Delta R.T. -0.01 min  
Lab File: BE098819.D  
Acq: 7 Mar 2019 14:23

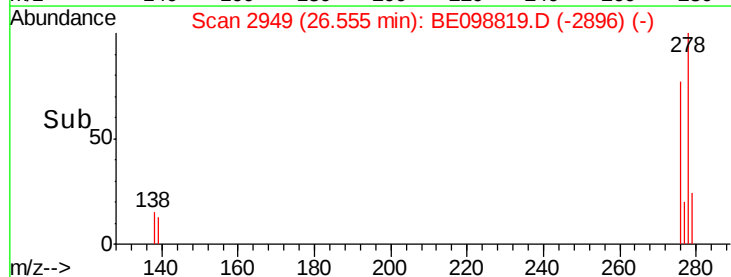
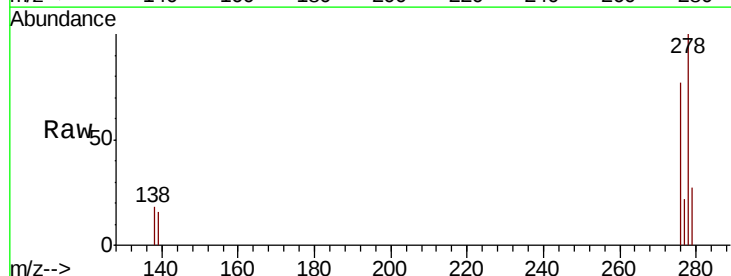
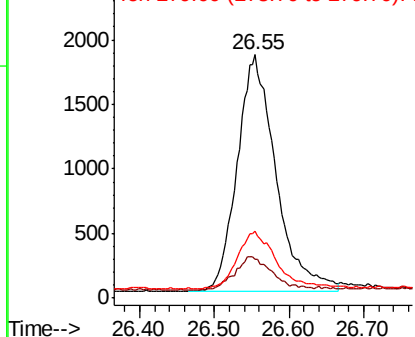
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 15.9  | 11.8  | 17.6  |
| 279     | 27.3  | 21.1  | 31.7  |

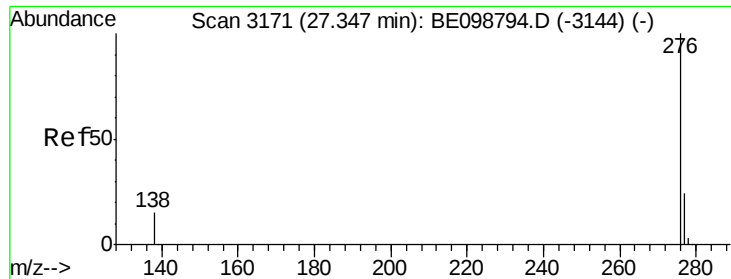
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.282 ng

RT: 27.34 min Scan# 3169

Delta R.T. -0.01 min

Lab File: BE098819.D

Acq: 7 Mar 2019 14:23

Instrument :

BNA\_E

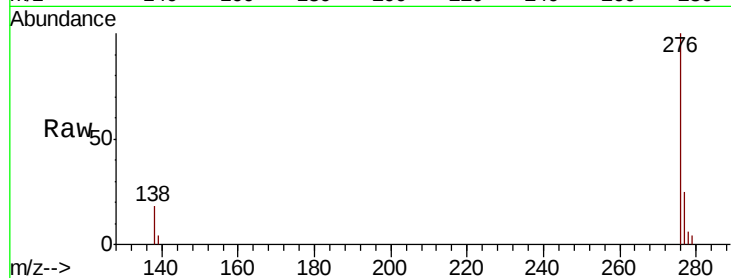
ClientSampleId :

A0C1-TWPMDS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 6662 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 24.8  | 20.4  | 30.6 |
| 138       | 17.9  | 13.6  | 20.4 |

Manual Integrations  
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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

