

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101519\  
 Data File : BE100642.D  
 Acq On : 15 Oct 2019 9:51  
 Operator : JU  
 Sample : K4994-02  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-SW091-091819-3

Manual Integrations  
 APPROVED

mohammad  
 10/17/2019 7:56:38 AM

Quant Time: Oct 15 12:04:17 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 10 14:01:52 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.85  | 152  | 5964     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.64 | 136  | 27584    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.47 | 164  | 23279    | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.20 | 188  | 54603    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.38 | 240  | 75493    | 0.40 | ng    | 0.01     |
| 34) Perylene-d12          | 23.86 | 264  | 84216    | 0.40 | ng    | 0.01     |

|                             |       |     |        |      |    |      |
|-----------------------------|-------|-----|--------|------|----|------|
| System Monitoring Compounds |       |     |        |      |    |      |
| 4) 2-Fluorophenol           | 5.45  | 112 | 4046   | 0.22 | ng | 0.00 |
| 5) Phenol-d6                | 7.01  | 99  | 6102   | 0.23 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.99  | 82  | 4123   | 0.24 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152 | 10458  | 0.24 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.96 | 330 | 1460   | 0.24 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.12 | 172 | 14335  | 0.17 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.23 | 212 | 148013 | 0.21 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.83 | 244 | 39122  | 0.24 | ng | 0.00 |

|                                |       |     |          |        |        |      |
|--------------------------------|-------|-----|----------|--------|--------|------|
| Target Compounds               |       |     |          |        | Qvalue |      |
| 9) Naphthalene                 | 10.68 | 128 | 1049377  | 3.618  | ng     | 99   |
| 12) 2-Methylnaphthalene        | 12.30 | 142 | 128258   | 2.594  | ng     | 93   |
| 16) Acenaphthylene             | 14.20 | 152 | 894038   | 8.925  | ng     | 99   |
| 17) Acenaphthene               | 14.54 | 154 | 87391    | 1.350  | ng     | 96   |
| 18) Fluorene                   | 15.51 | 166 | 463691   | 5.393  | ng     | # 94 |
| 22) Pentachlorophenol          | 16.85 | 266 | 390      | 0.046  | ng     | 89   |
| 23) Phenanthrene               | 17.25 | 178 | 7238676  | 48.197 | ng     | # 90 |
| 24) Anthracene                 | 17.33 | 178 | 804079   | 5.770  | ng     | 96   |
| 26) Fluoranthene               | 19.27 | 202 | 9340377m | 47.650 | ng     |      |
| 28) Pylene                     | 19.63 | 202 | 10157498 | 48.159 | ng     | # 74 |
| 30) Benzo(a)anthracene         | 21.35 | 228 | 6301110  | 25.587 | ng     | # 82 |
| 31) Chrysene                   | 21.41 | 228 | 7783131  | 31.625 | ng     | # 79 |
| 32) Bis(2-ethylhexyl)phthalate | 21.31 | 149 | 114287   | 0.222  | ng     | # 69 |
| 33) Indeno(1,2,3-cd)pyrene     | 26.50 | 276 | 4379229  | 14.478 | ng     | 96   |
| 35) Benzo(b)fluoranthene       | 23.11 | 252 | 8078803  | 32.899 | ng     | 94   |
| 36) Benzo(k)fluoranthene       | 23.15 | 252 | 3048185m | 12.069 | ng     |      |
| 37) Benzo(a)pyrene             | 23.76 | 252 | 6168110  | 26.984 | ng     | 96   |
| 38) Dibenzo(a,h)anthracene     | 26.51 | 278 | 1268895  | 5.371  | ng     | 93   |
| 39) Benzo(g,h,i)perylene       | 27.31 | 276 | 4676711  | 19.682 | ng     | 98   |

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

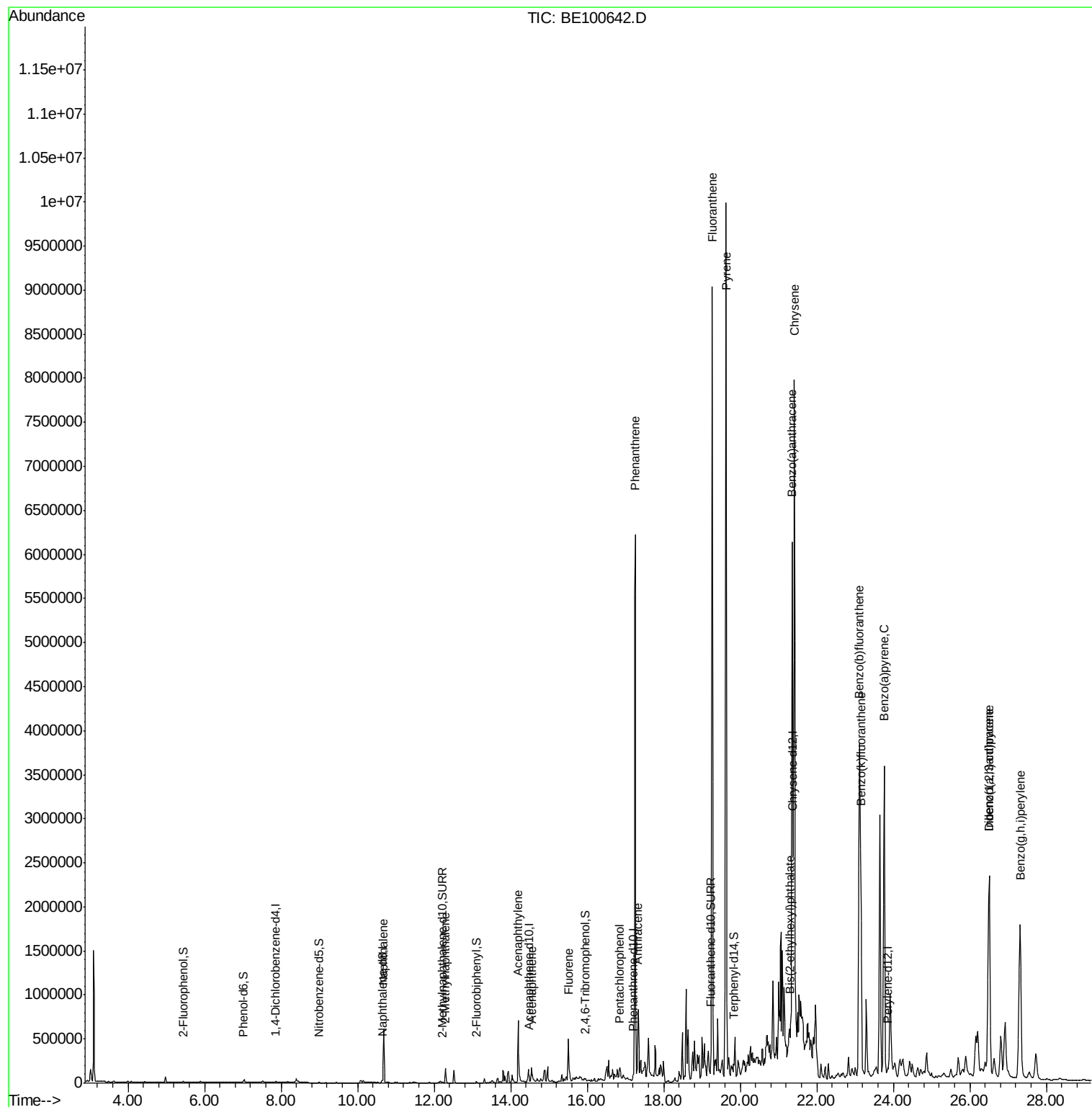
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101519\  
Data File : BE100642.D  
Acq On : 15 Oct 2019 9:51  
Operator : JU  
Sample : K4994-02  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

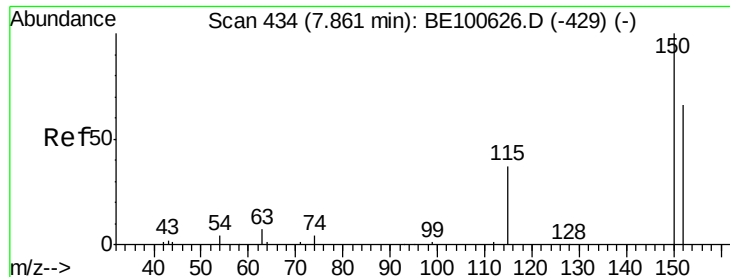
Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW091-091819-3

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Quant Time: Oct 15 12:04:17 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 10 14:01:52 2019  
Response via : Initial Calibration





#1

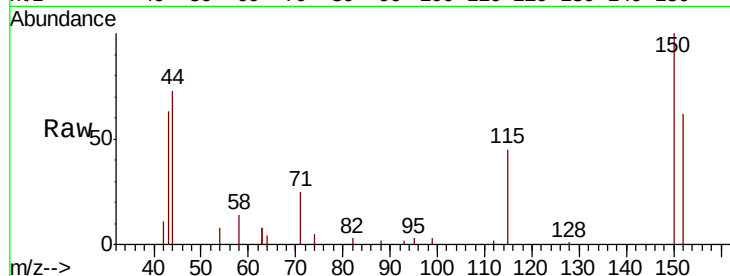
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.85 min Scan# 433  
Delta R.T. -0.01 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW091-091819-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.8 | 120.7 | 181.1 |
| 115     | 73.2  | 48.0  | 72.0# |

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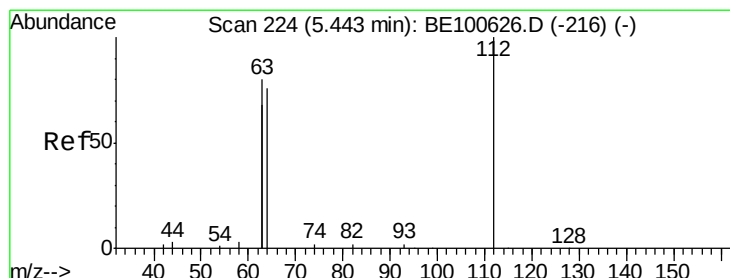
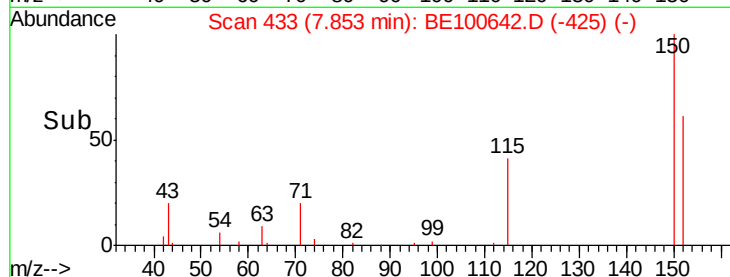
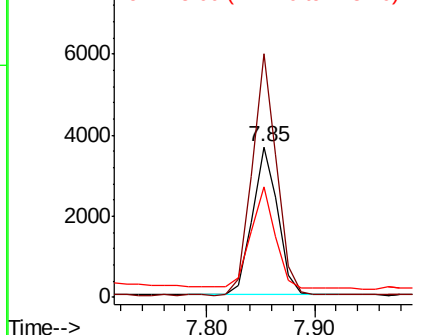


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

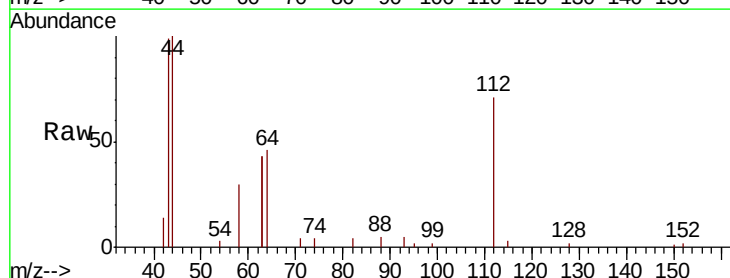
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol  
Concen: 0.220 ng  
RT: 5.45 min Scan# 224  
Delta R.T. 0.00 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 74.4  | 58.9  | 88.3  |
| 63      | 136.0 | 118.3 | 177.5 |

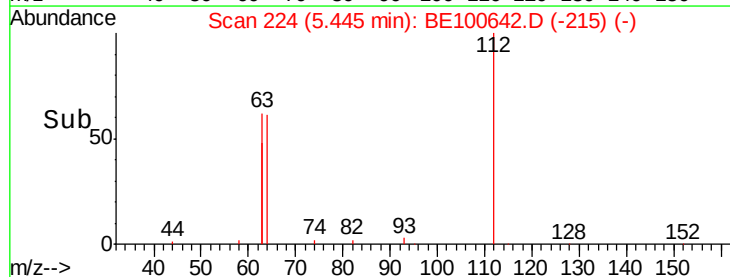
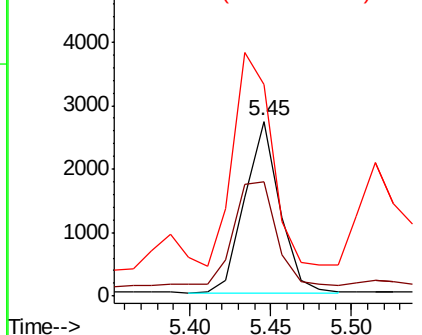


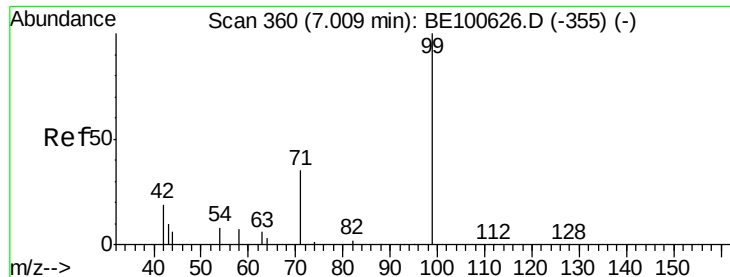
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.235 ng

RT: 7.01 min Scan# 360

Delta R.T. 0.00 min

Lab File: BE100642.D

Acq: 15 Oct 2019 9:51

Instrument :

BNA\_E

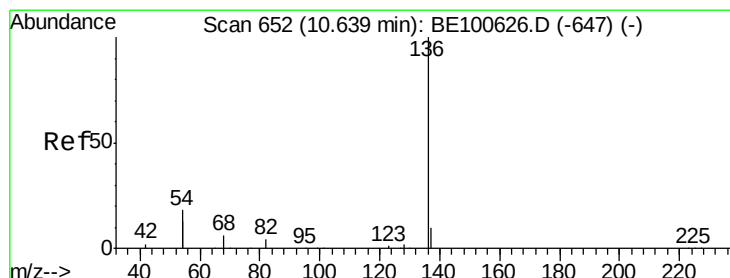
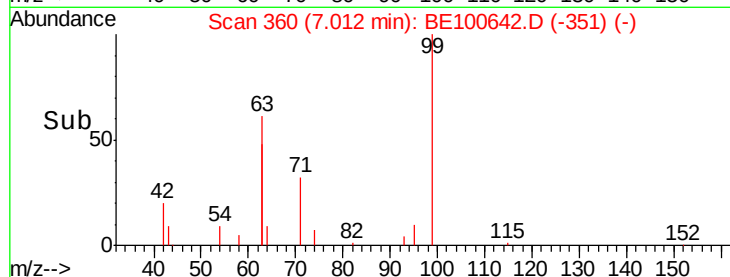
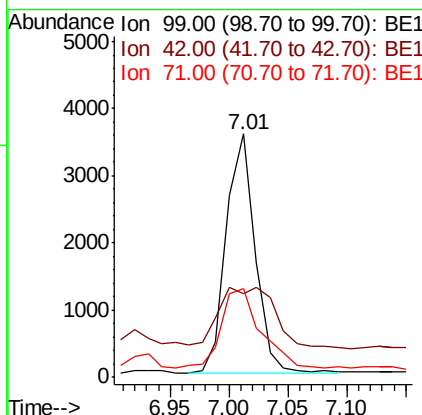
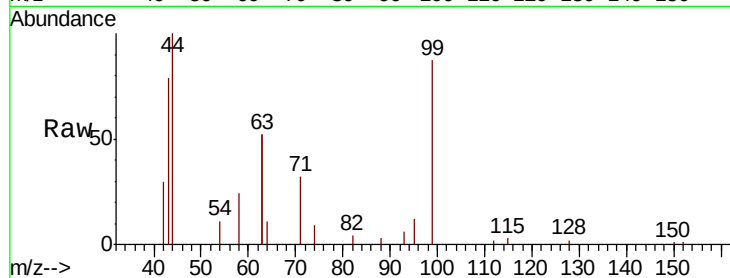
ClientSampleId :

EXT-SW091-091819-3

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 6102  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 48.7  | 19.4  | 29.2# |
| 71       | 45.1  | 26.9  | 40.3# |

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#7

Naphthalene-d8

Concen: 0.400 ng

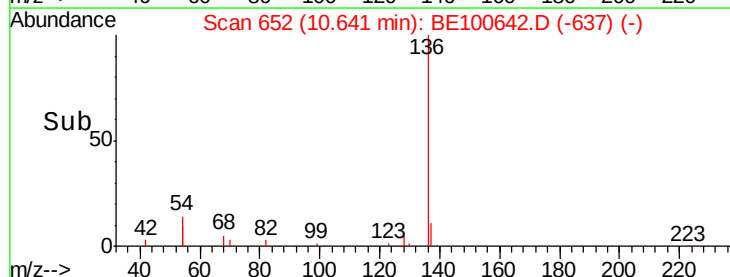
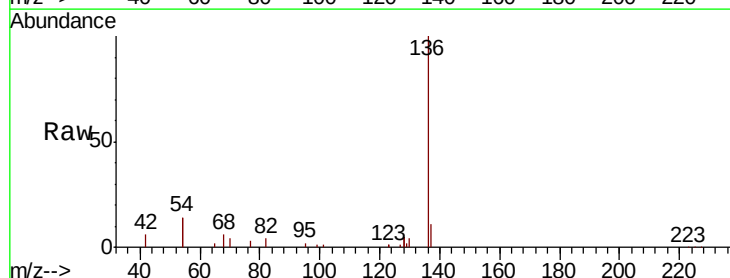
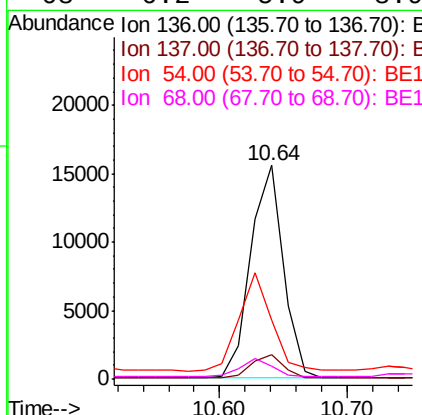
RT: 10.64 min Scan# 652

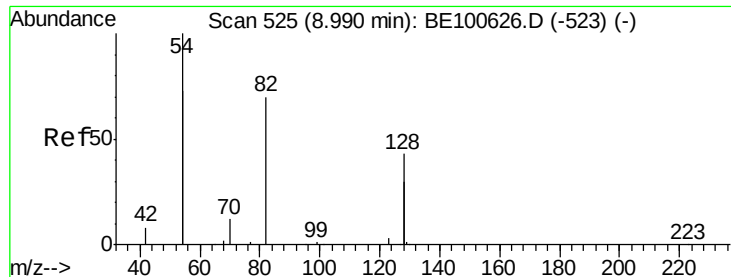
Delta R.T. 0.00 min

Lab File: BE100642.D

Acq: 15 Oct 2019 9:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 27584 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 8.6   | 13.0  |
| 54       | 27.8  | 28.7  | 43.1# |
| 68       | 6.2   | 5.9   | 8.9   |





#8

Nitrobenzene-d5

Concen: 0.241 ng

RT: 8.99 min Scan# 525

Delta R.T. 0.00 min

Lab File: BE100642.D

Acq: 15 Oct 2019 9:51

Instrument :

BNA\_E

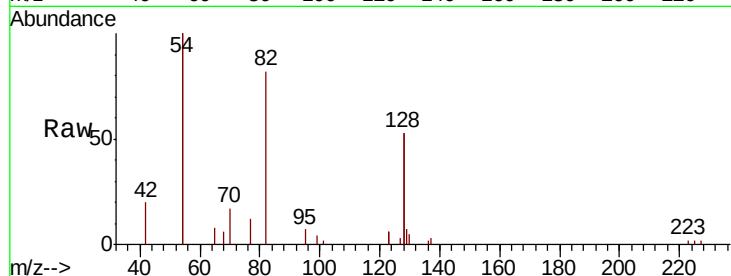
ClientSampleId :

EXT-SW091-091819-3

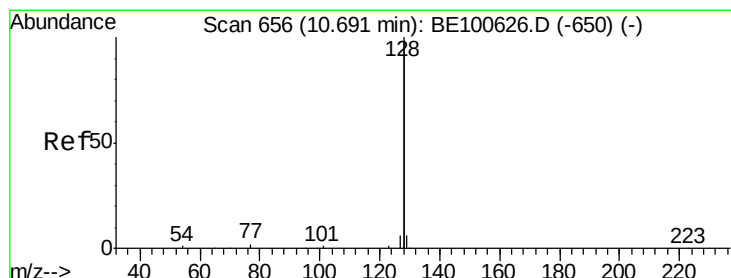
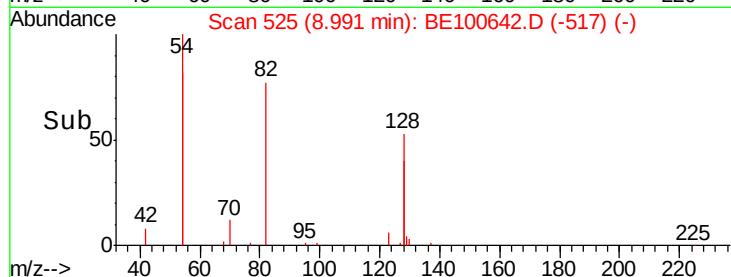
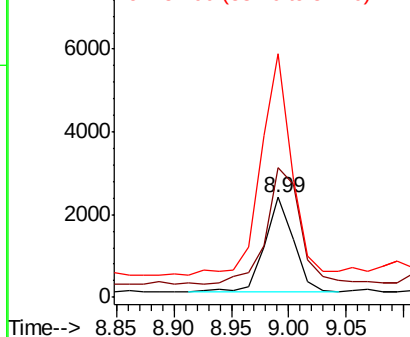
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 82    | Resp: | 4123  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 129.6 | 90.7  | 136.1 |
| 54       | 244.1 | 210.9 | 316.3 |

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Abundance Ion 82.00 (81.70 to 82.70): BE1  
Ion 128.00 (127.70 to 128.70): BE1  
Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 3.618 ng

RT: 10.68 min Scan# 655

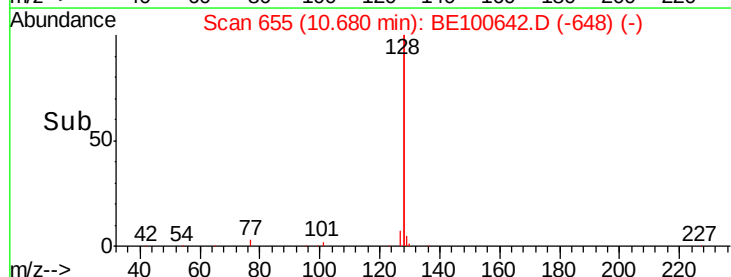
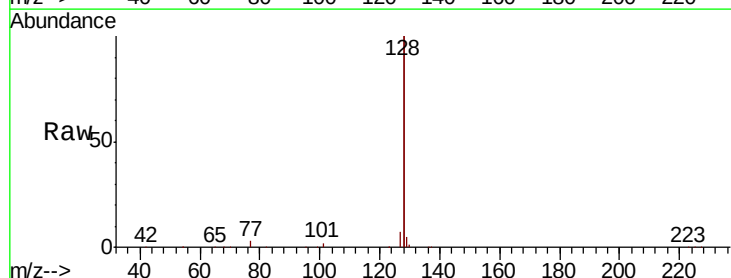
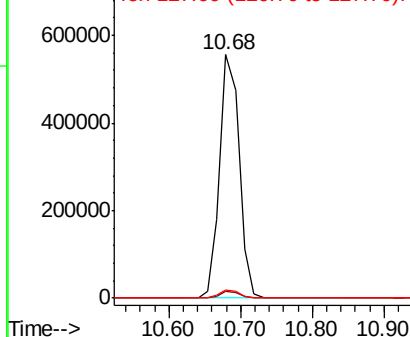
Delta R.T. -0.01 min

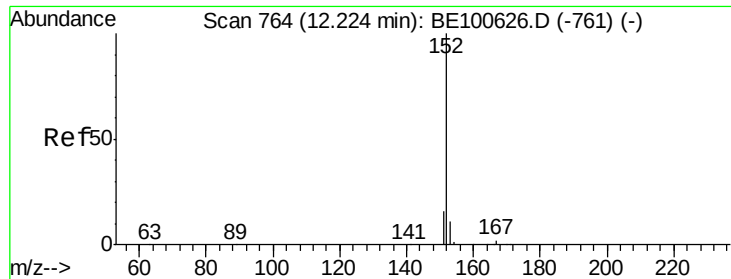
Lab File: BE100642.D

Acq: 15 Oct 2019 9:51

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 128   | Resp: | 1049377 |
| Ion      | Ratio | Lower | Upper   |
| 128      | 100   |       |         |
| 129      | 2.7   | 2.4   | 3.6     |
| 127      | 3.4   | 2.6   | 3.8     |

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





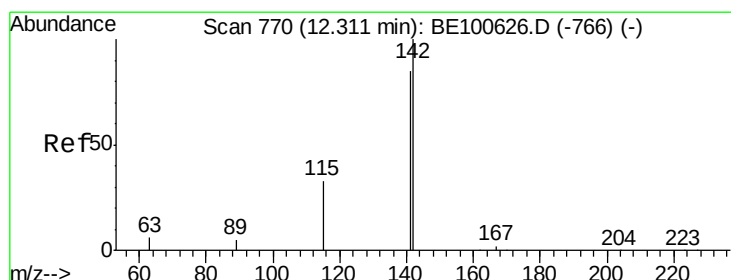
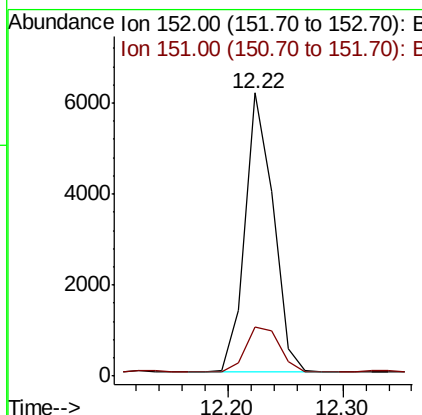
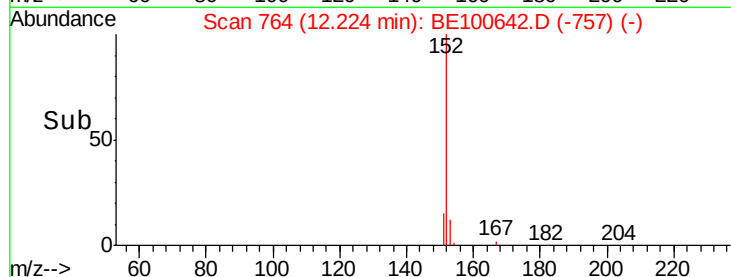
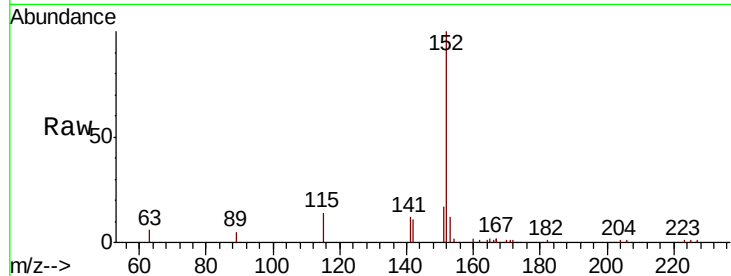
#11  
2-Methylnaphthalene-d10  
Concen: 0.240 ng  
RT: 12.22 min Scan# 764  
Delta R.T. -0.00 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW091-091819-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.4  | 15.2  | 22.8  |

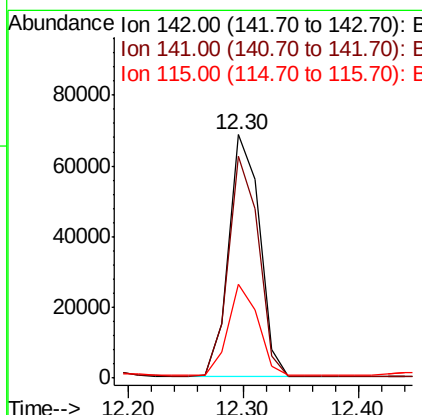
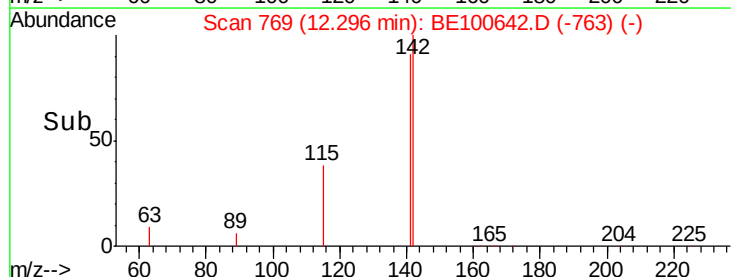
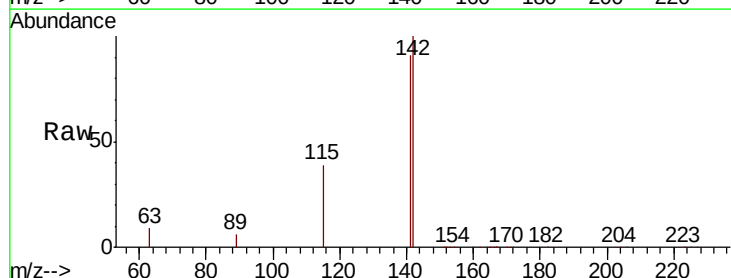
Manual Integrations  
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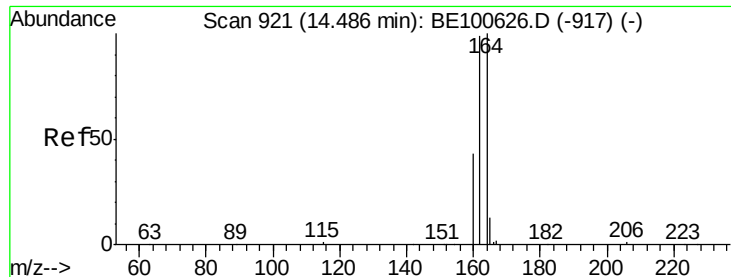
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#12  
2-Methylnaphthalene  
Concen: 2.594 ng  
RT: 12.30 min Scan# 769  
Delta R.T. -0.01 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.3  | 68.3  | 102.5 |
| 115     | 38.6  | 27.5  | 41.3  |





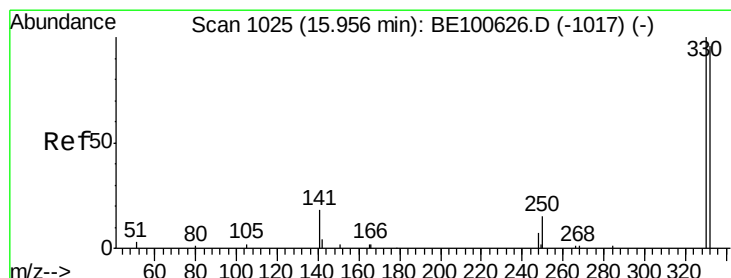
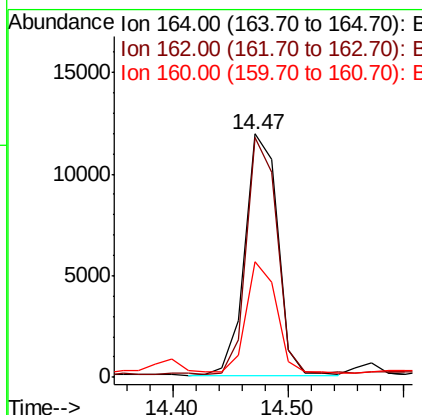
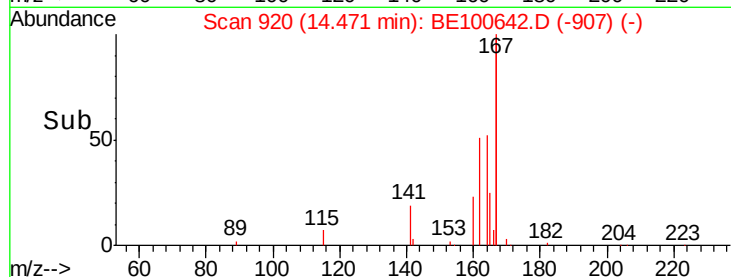
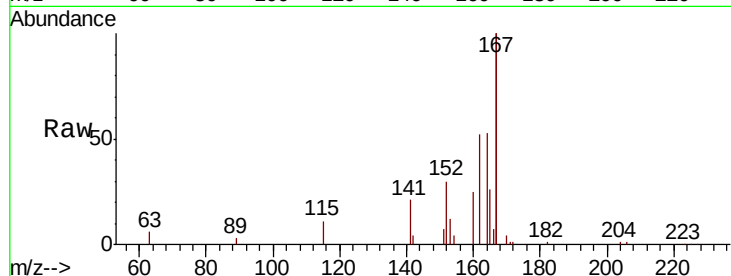
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.47 min Scan# 920  
Delta R.T. -0.01 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW091-091819-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 98.4  | 79.1  | 118.7 |
| 160     | 47.7  | 34.7  | 52.1  |

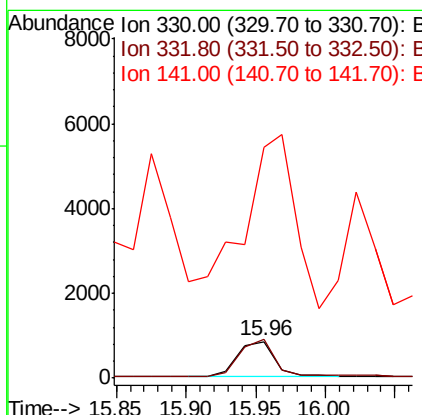
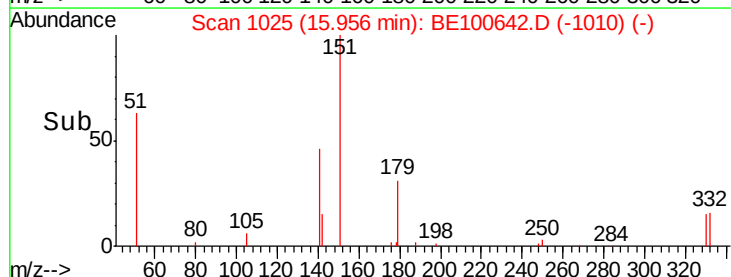
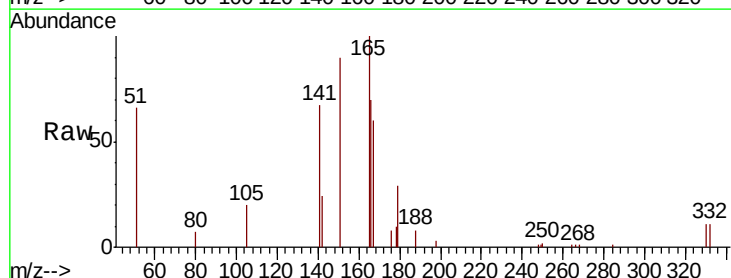
Manual Integrations  
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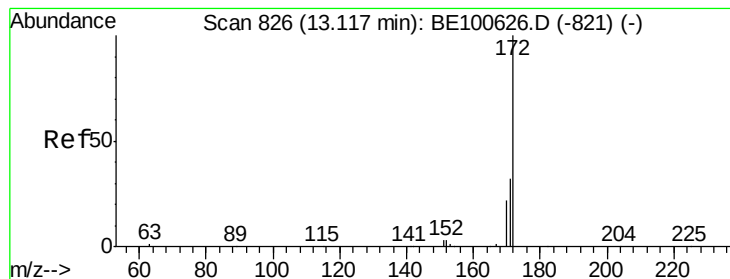
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#14  
2,4,6-Tribromophenol  
Concen: 0.237 ng  
RT: 15.96 min Scan# 1025  
Delta R.T. -0.00 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 102.9 | 75.2  | 112.8 |
| 141     | 682.3 | 37.5  | 56.3# |





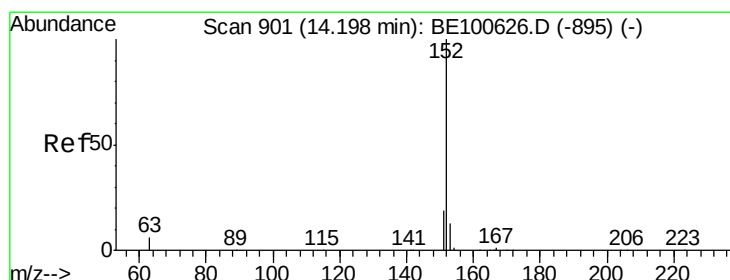
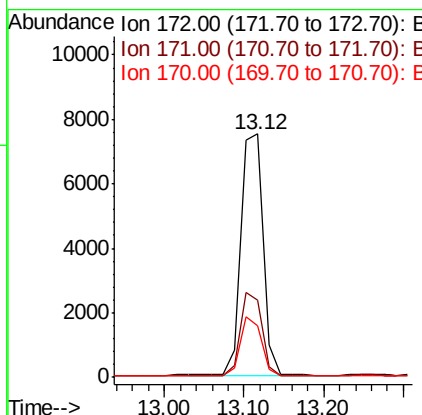
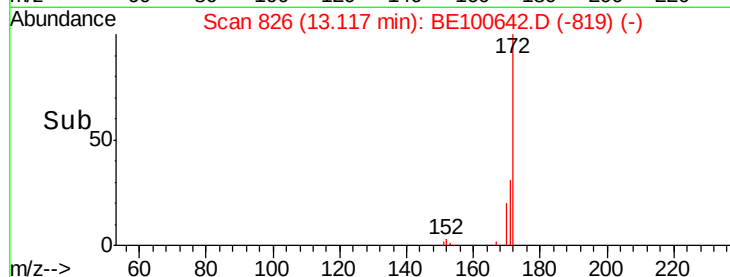
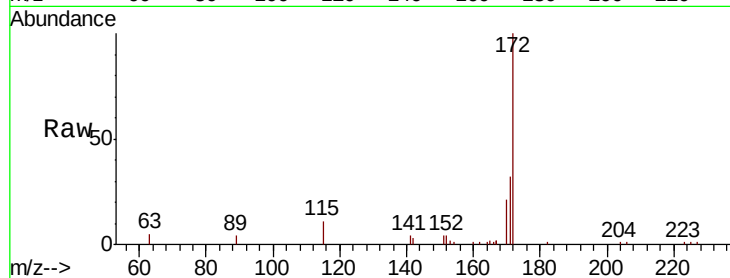
#15  
2-Fluorobiphenyl  
Concen: 0.169 ng  
RT: 13.12 min Scan# 826  
Delta R.T. -0.00 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW091-091819-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 31.8  | 26.2  | 39.4  |
| 170     | 21.0  | 17.5  | 26.3  |

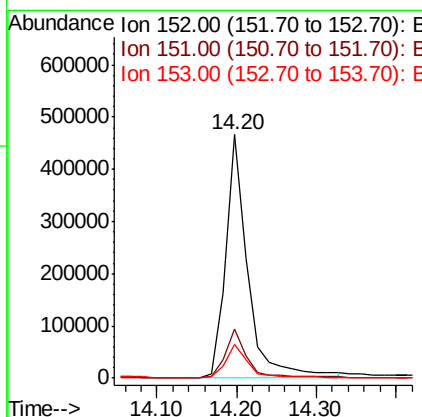
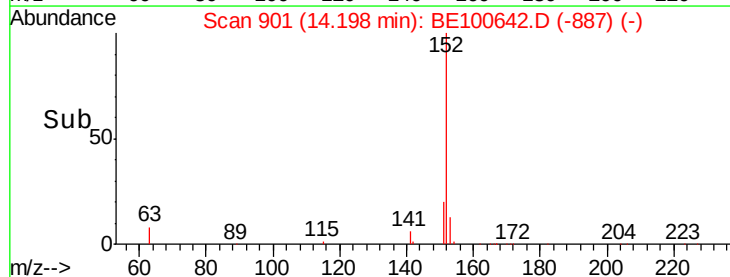
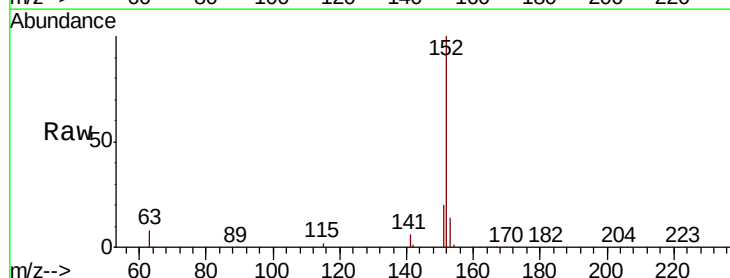
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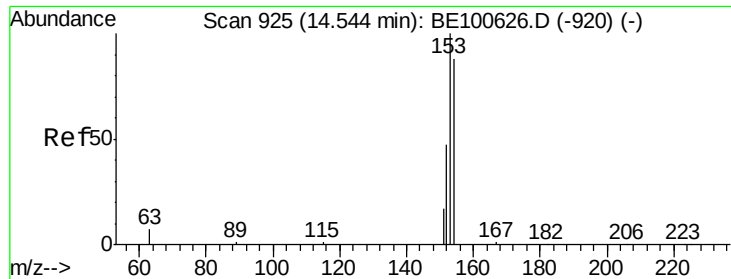


#16  
Acenaphthylene  
Concen: 8.925 ng  
RT: 14.20 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.8  | 15.6  | 23.4  |
| 153     | 13.6  | 10.5  | 15.7  |







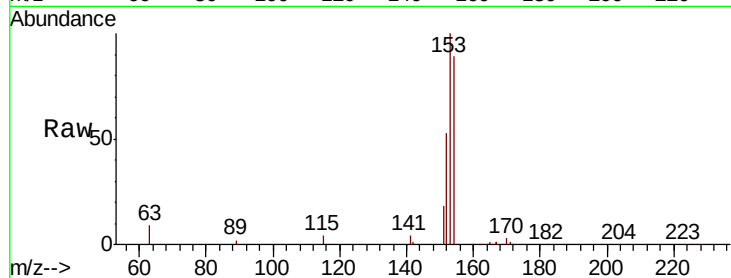
#17  
Acenaphthene  
Concen: 1.350 ng  
RT: 14.54 min Scan# 925  
Delta R.T. -0.00 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW091-091819-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 116.9 | 91.4  | 137.2 |
| 152     | 60.7  | 44.0  | 66.0  |

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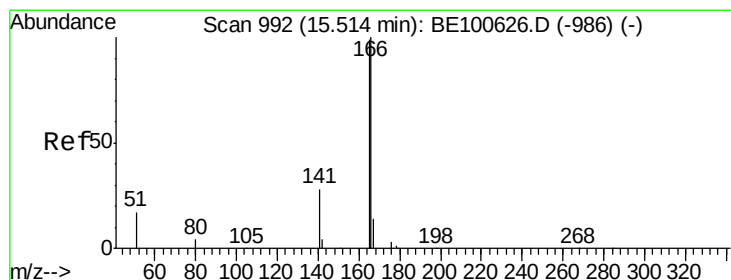
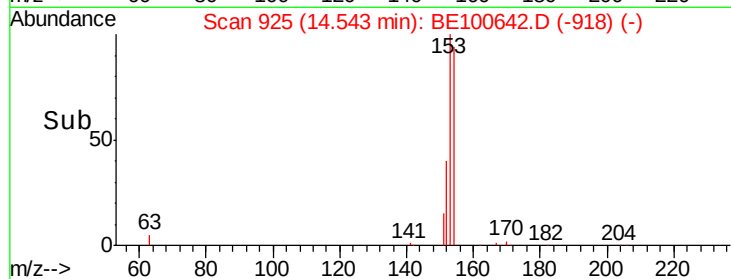
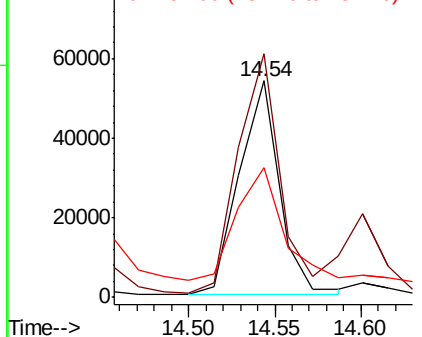


Abundance

Ion 154.00 (153.70 to 154.70): E

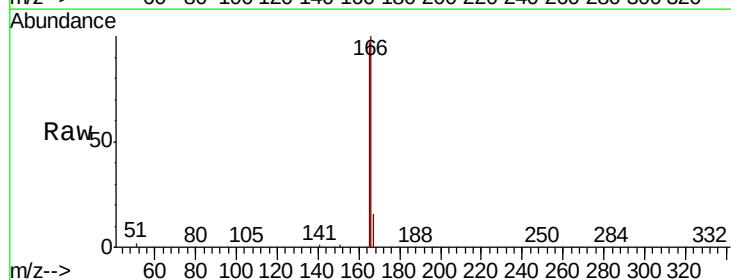
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18  
Fluorene  
Concen: 5.393 ng  
RT: 15.51 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 92.3  | 78.9  | 118.3 |
| 167     | 16.6  | 10.9  | 16.3# |

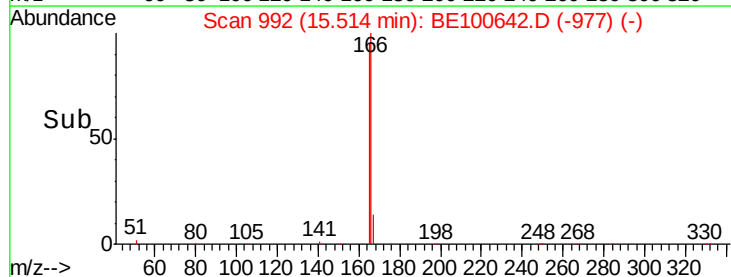
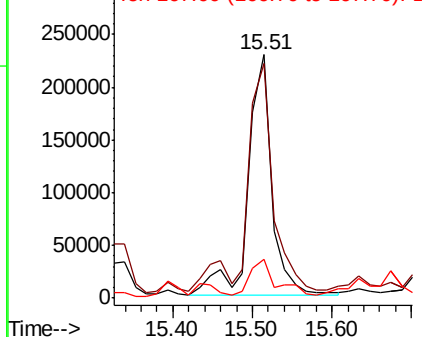


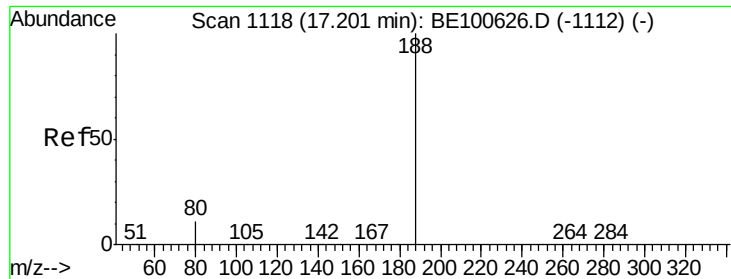
Abundance

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





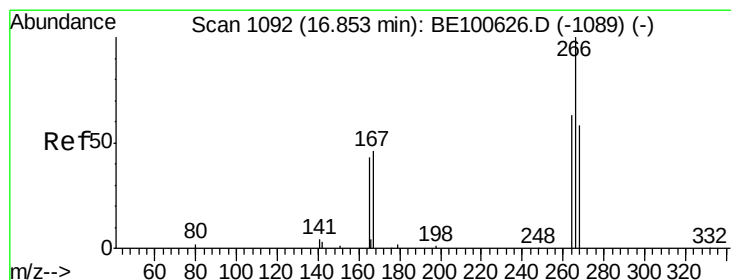
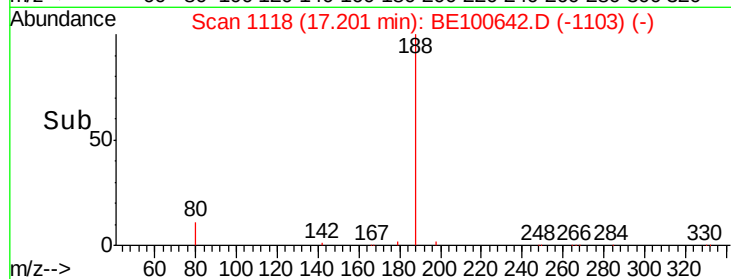
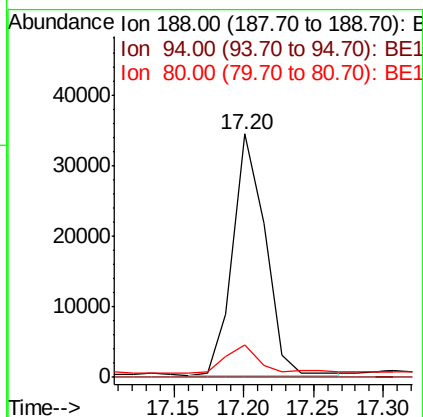
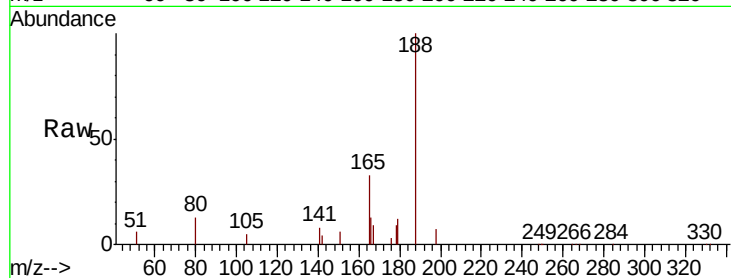
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.20 min Scan# 1118  
Delta R.T. -0.00 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW091-091819-3

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 188     | 100   | 54603 |       |       |
| 94      | 0.0   | 0.0   | 0.0   | 0.0   |
| 80      | 13.2  | 9.4   | 14.2  |       |

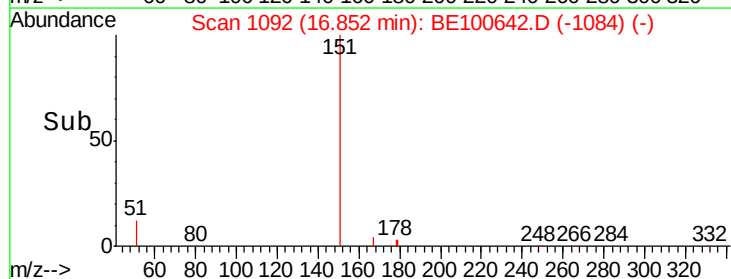
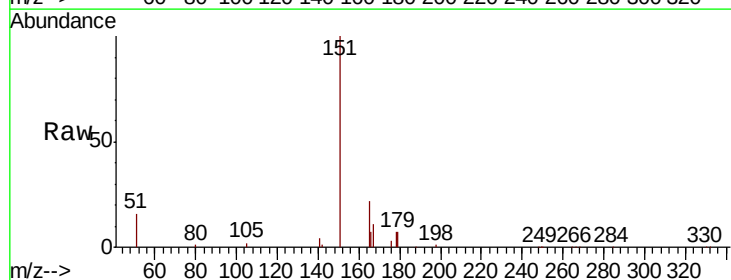
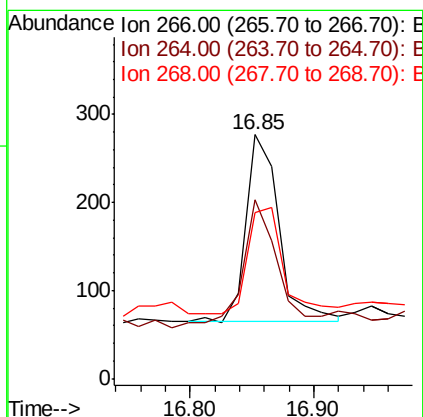
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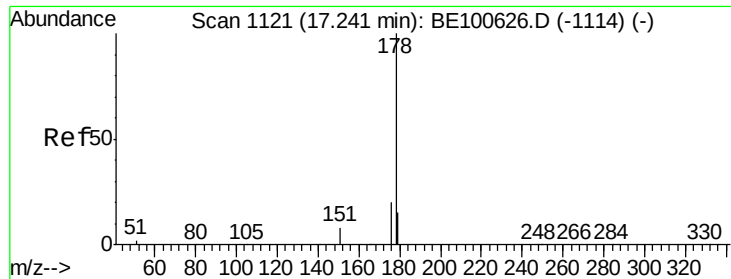
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#22  
Pentachlorophenol  
Concen: 0.046 ng  
RT: 16.85 min Scan# 1092  
Delta R.T. 0.00 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 266     | 100   | 390  |       |       |
| 264     | 73.3  | 50.7 | 76.1  |       |
| 268     | 67.9  | 48.5 | 72.7  |       |





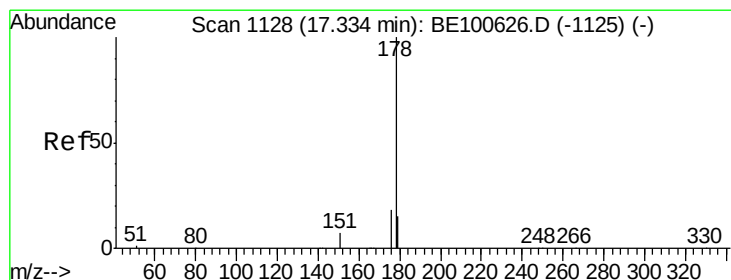
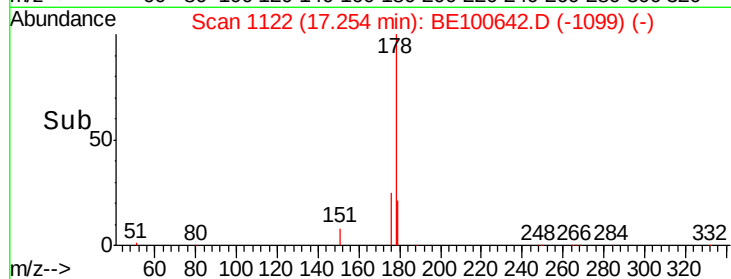
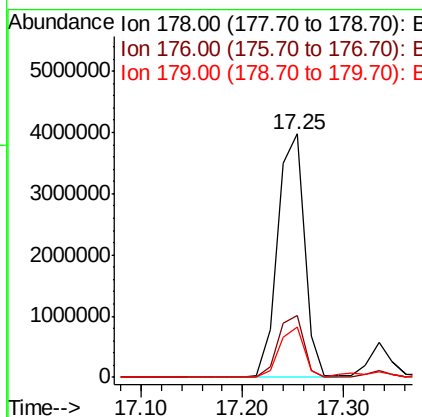
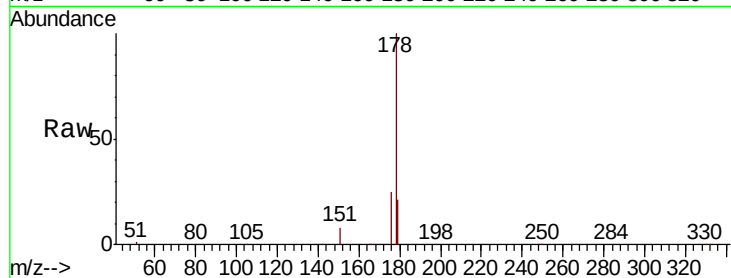
#23  
Phenanthrene  
Concen: 48.197 ng  
RT: 17.25 min Scan# 1122  
Delta R.T. 0.01 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW091-091819-3

Tot Ion:178 Resp: 7238676  
Ion Ratio Lower Upper  
178 100  
176 24.2 15.6 23.4#  
179 19.7 12.4 18.6#

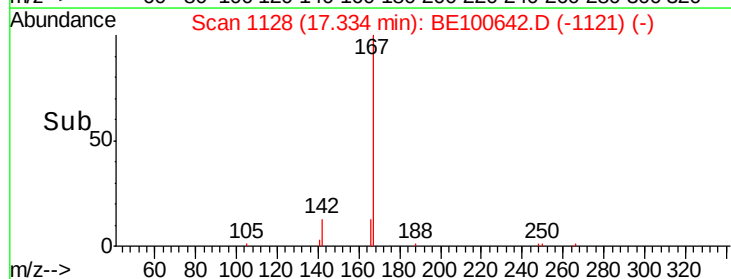
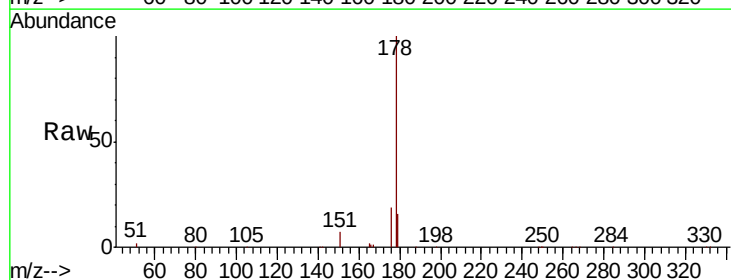
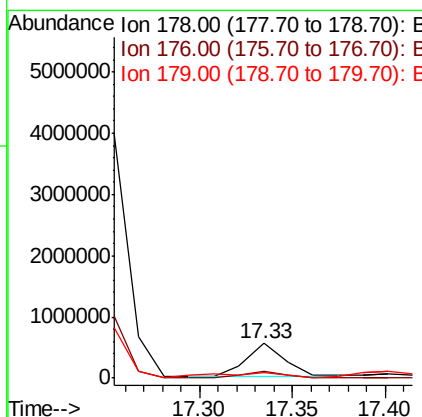
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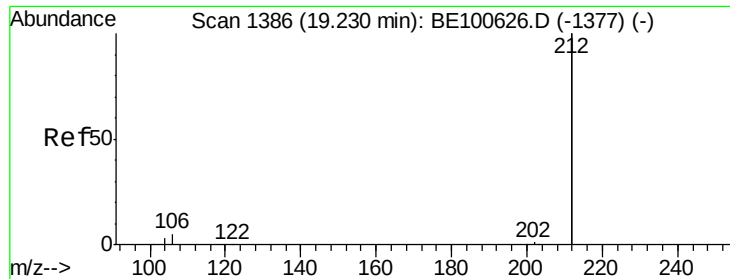
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#24  
Anthracene  
Concen: 5.770 ng  
RT: 17.33 min Scan# 1128  
Delta R.T. -0.00 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Tgt Ion:178 Resp: 804079  
Ion Ratio Lower Upper  
178 100  
176 19.2 14.5 21.7  
179 18.1 12.4 18.6





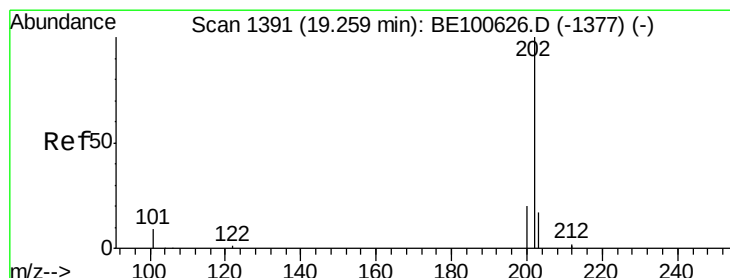
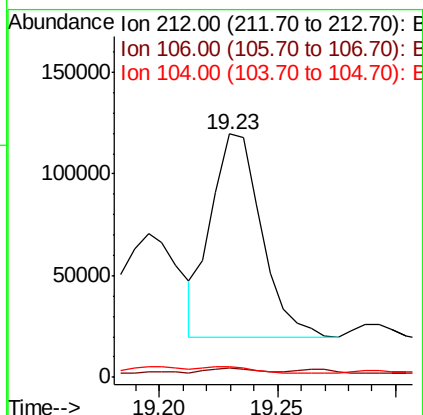
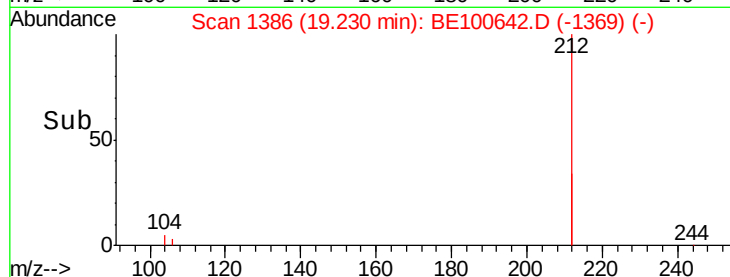
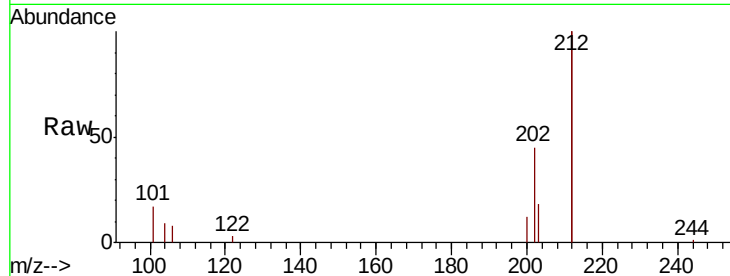
#25  
Fluoranthene-d10  
Concen: 0.210 ng  
RT: 19.23 min Scan# 1386  
Delta R.T. -0.00 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW091-091819-3

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 212     | 100   |      |       |       |
| 106     | 3.1   |      | 2.2   | 3.4   |
| 104     | 3.3   |      | 1.3   | 1.9   |

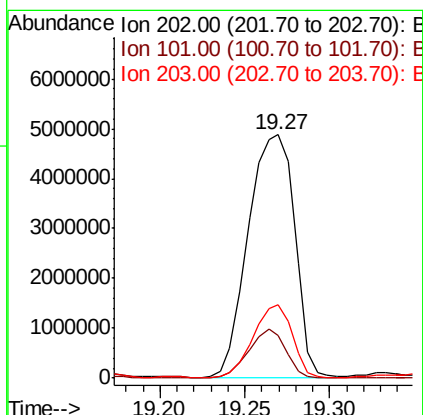
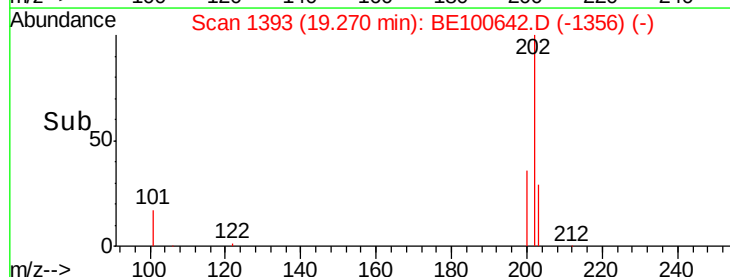
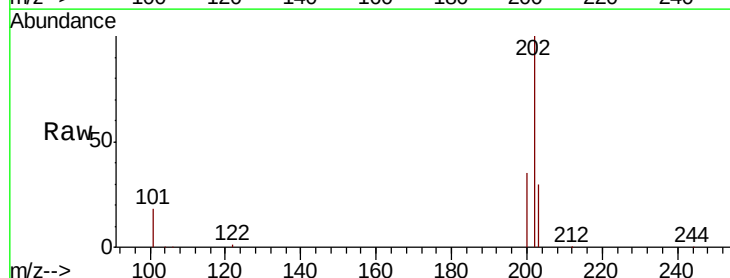
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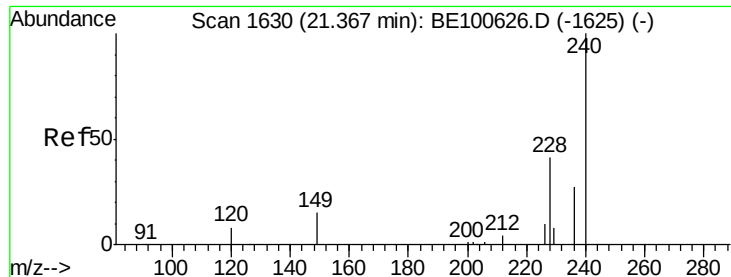
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#26  
Fluoranthene  
Concen: 47.650 ng m  
RT: 19.27 min Scan# 1393  
Delta R.T. 0.01 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 101     | 0.5   |      | 8.4   | 12.6  |
| 203     | 1.0   |      | 13.8  | 20.6  |





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.38 min Scan# 1631

Delta R.T. 0.01 min

Lab File: BE100642.D

Acq: 15 Oct 2019 9:51

Instrument :

BNA\_E

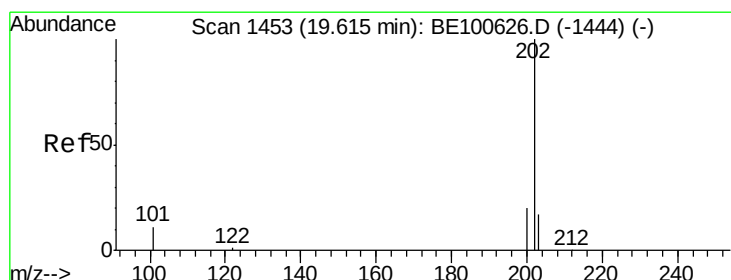
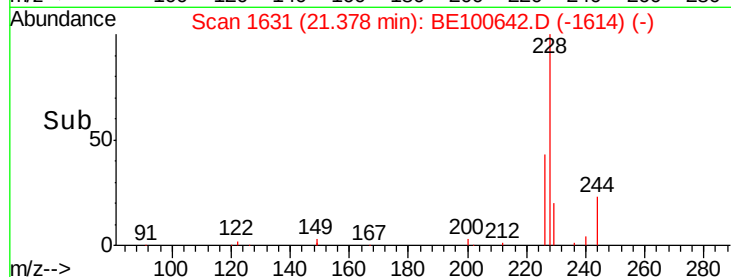
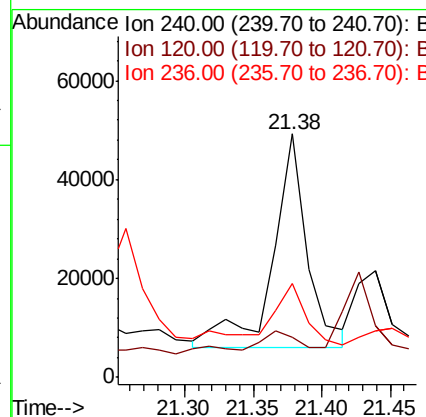
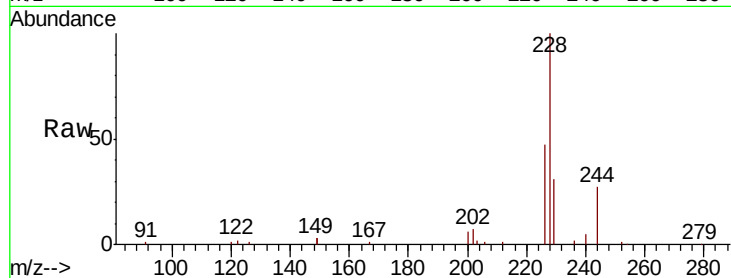
ClientSampleId :

EXT-SW091-091819-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 16.2  | 7.4   | 11.0# |
| 236     | 38.7  | 21.7  | 32.5# |

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#28

Pyrene

Concen: 48.159 ng

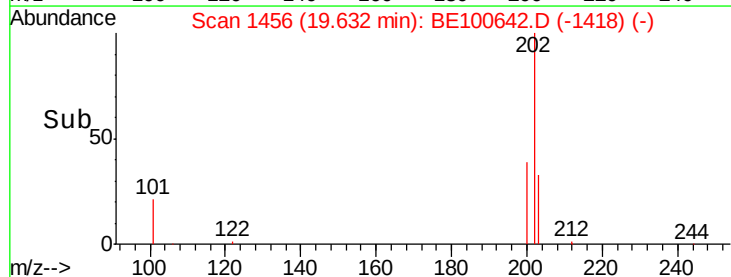
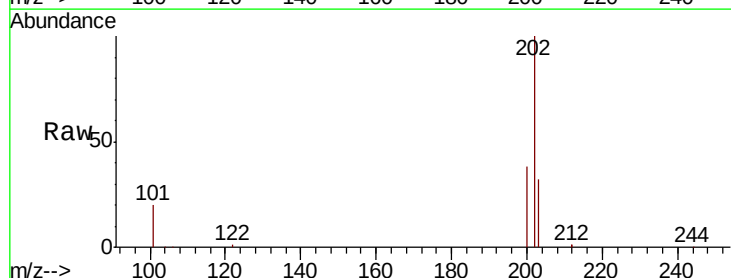
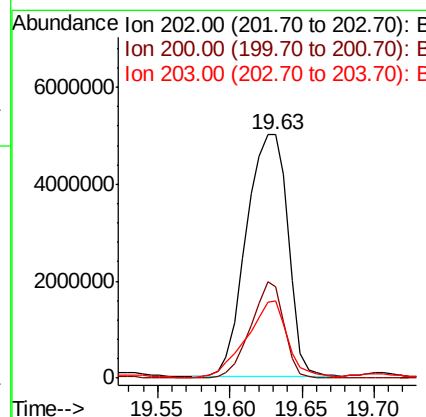
RT: 19.63 min Scan# 1456

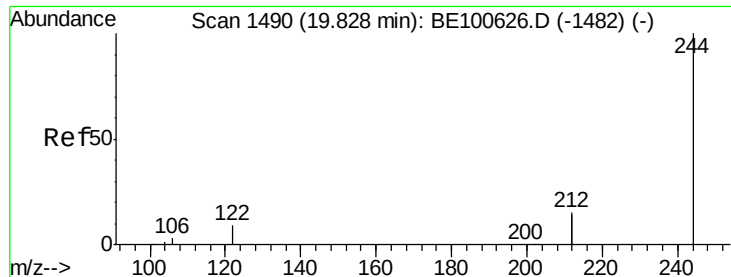
Delta R.T. 0.02 min

Lab File: BE100642.D

Acq: 15 Oct 2019 9:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 31.4  | 16.6  | 24.8# |
| 203     | 30.6  | 13.9  | 20.9# |





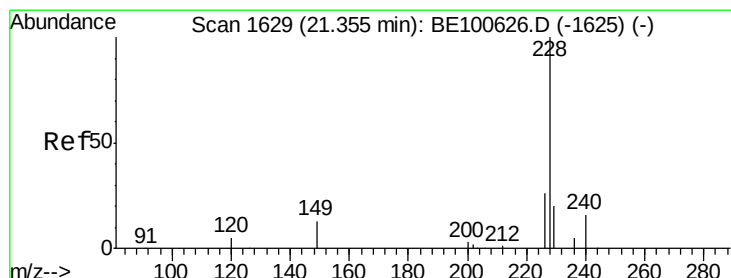
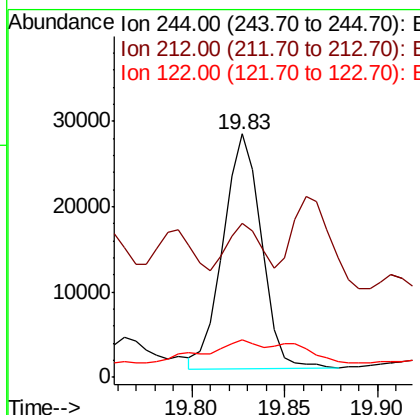
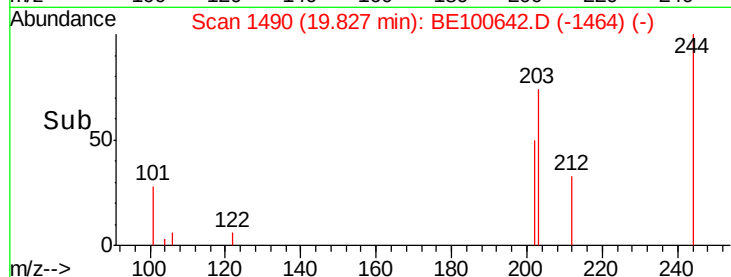
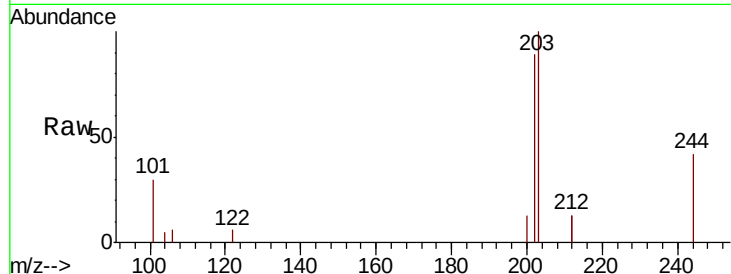
#29  
 Terphenyl-d14  
 Concen: 0.237 ng  
 RT: 19.83 min Scan# 1490  
 Delta R.T. -0.00 min  
 Lab File: BE100642.D  
 Acq: 15 Oct 2019 9:51

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-SW091-091819-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 63.2  | 23.9  | 35.9# |
| 122     | 15.2  | 7.7   | 11.5# |

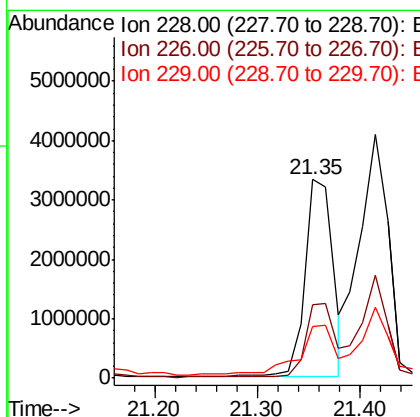
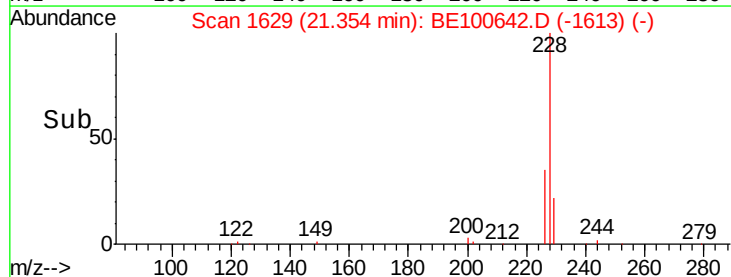
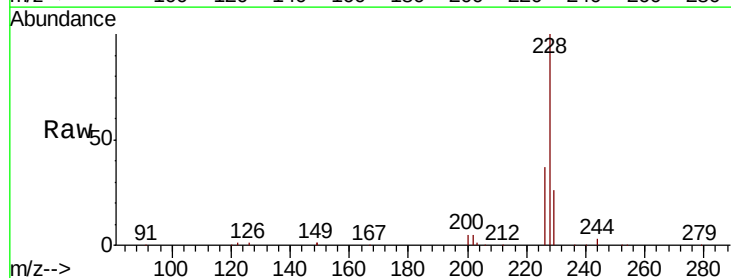
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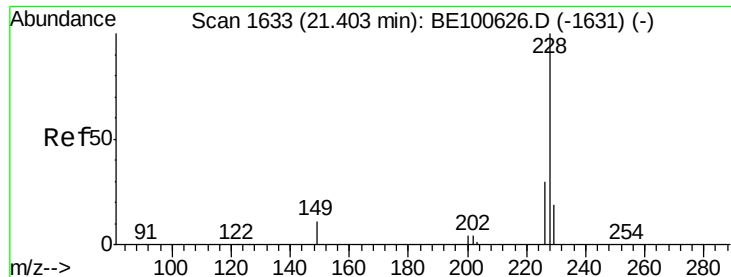
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#30  
 Benzo(a)anthracene  
 Concen: 25.587 ng  
 RT: 21.35 min Scan# 1629  
 Delta R.T. -0.00 min  
 Lab File: BE100642.D  
 Acq: 15 Oct 2019 9:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 36.9  | 21.0  | 31.6# |
| 229     | 25.9  | 15.8  | 23.8# |





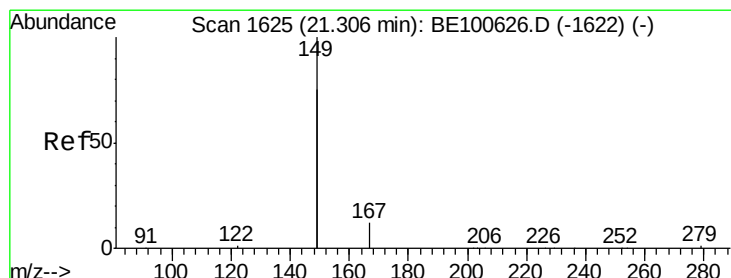
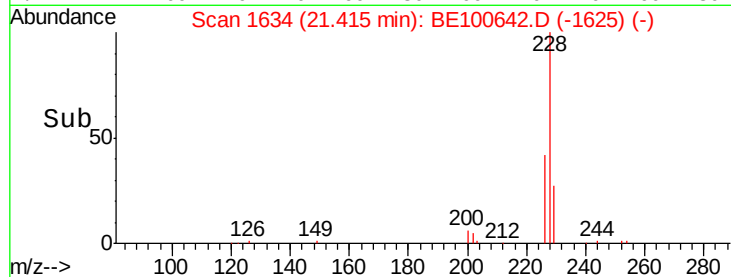
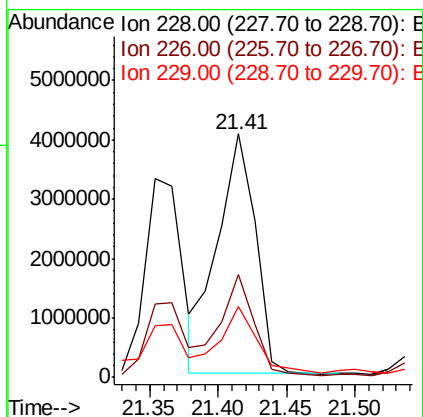
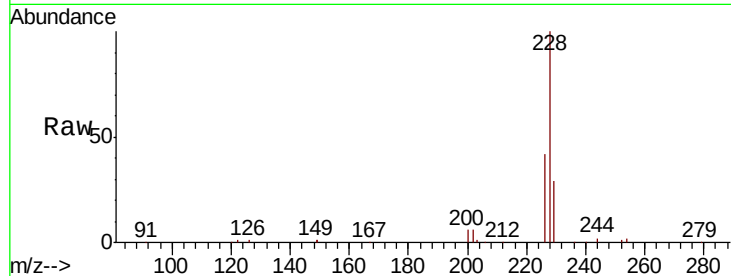
#31  
 Chrysene  
 Concen: 31.625 ng  
 RT: 21.41 min Scan# 1634  
 Delta R.T. 0.01 min  
 Lab File: BE100642.D  
 Acq: 15 Oct 2019 9:51

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-SW091-091819-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 42.0  | 24.5  | 36.7# |
| 229     | 28.9  | 15.6  | 23.4# |

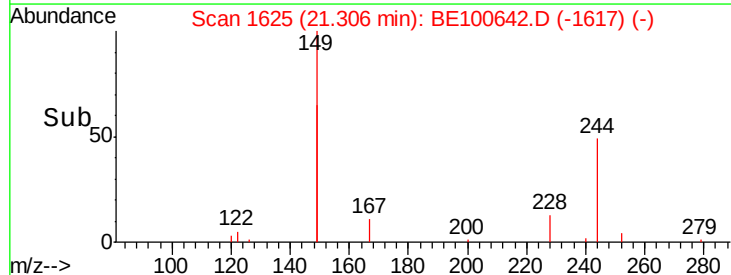
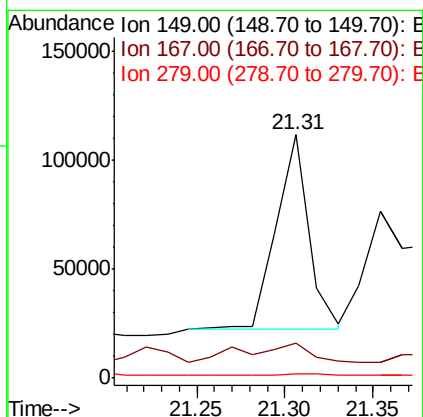
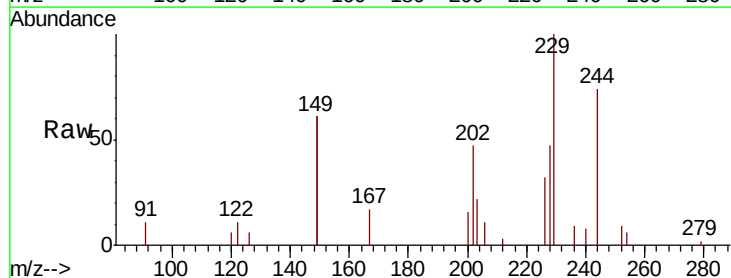
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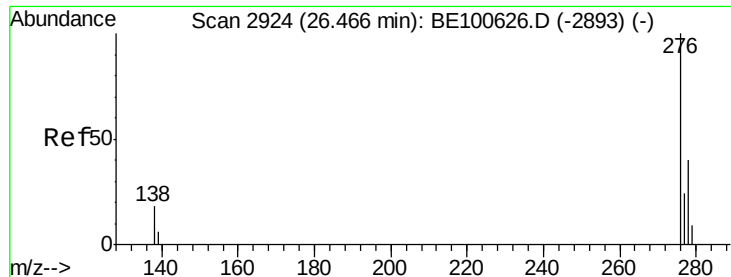
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#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.222 ng  
 RT: 21.31 min Scan# 1625  
 Delta R.T. -0.00 min  
 Lab File: BE100642.D  
 Acq: 15 Oct 2019 9:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 20.3  | 5.4   | 8.2#  |
| 279     | 1.1   | 1.5   | 2.3#  |





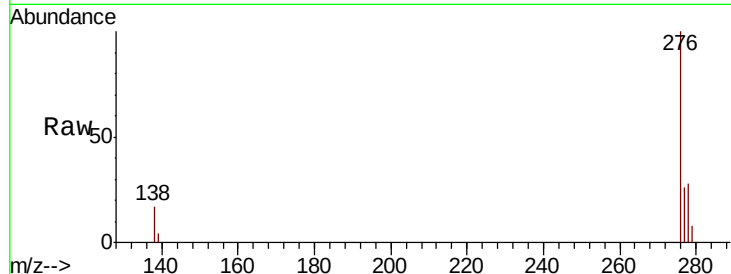
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 14.478 ng  
RT: 26.50 min Scan# 2934  
Delta R.T. 0.04 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW091-091819-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.0  | 16.0  | 24.0  |
| 277     | 25.8  | 19.7  | 29.5  |

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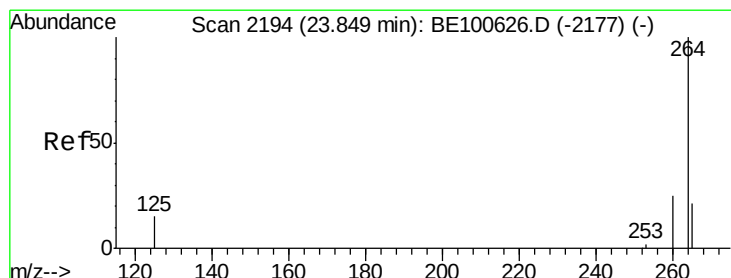
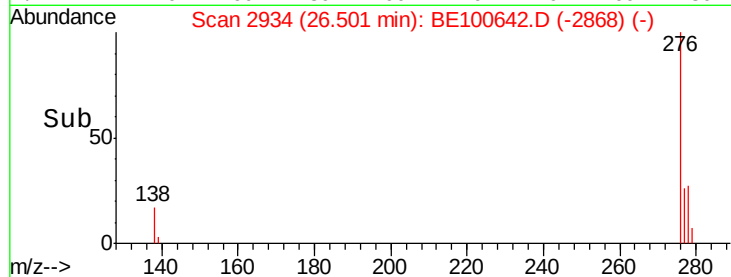
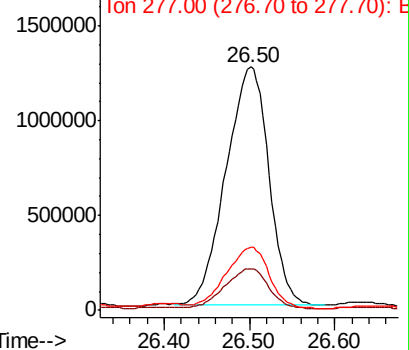


Abundance

Ion 276.00 (275.70 to 276.70): E

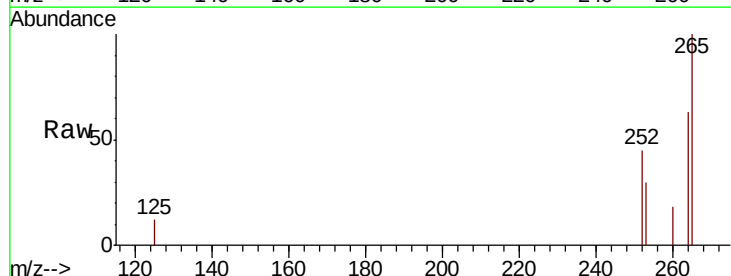
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.86 min Scan# 2198  
Delta R.T. 0.01 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 28.6  | 19.9  | 29.9  |
| 265     | 159.4 | 20.0  | 30.0# |

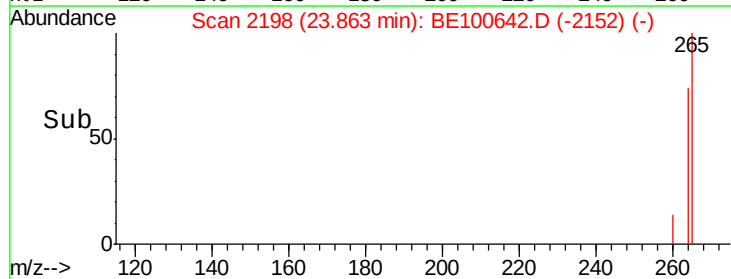
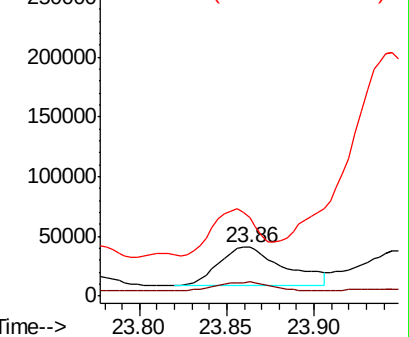


Abundance

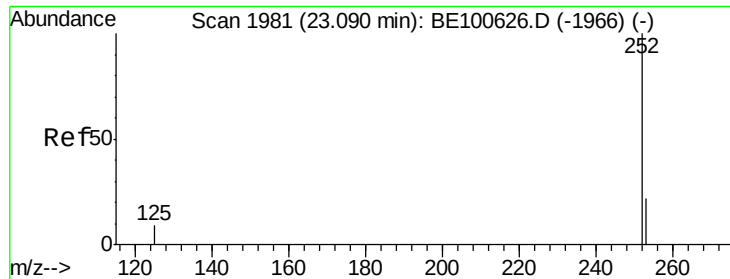
Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E







#35

Benzo(b)fluoranthene

Concen: 32.899 ng

RT: 23.11 min Scan# 1988

Delta R.T. 0.02 min

Lab File: BE100642.D

Acq: 15 Oct 2019 9:51

Instrument :

BNA\_E

ClientSampleId :

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Tot Ion:252 Resp: 8078803

Ion Ratio Lower Upper

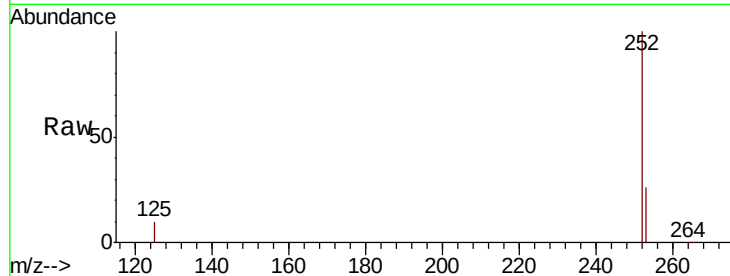
252 100

253 25.9 17.8 26.8

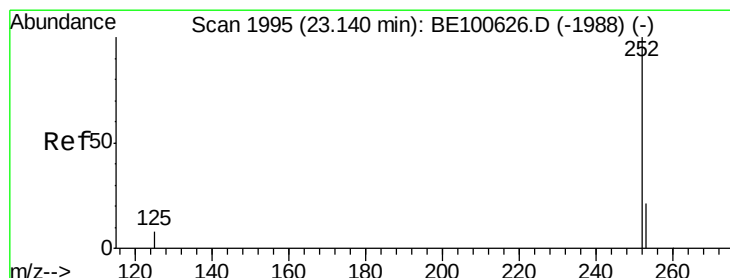
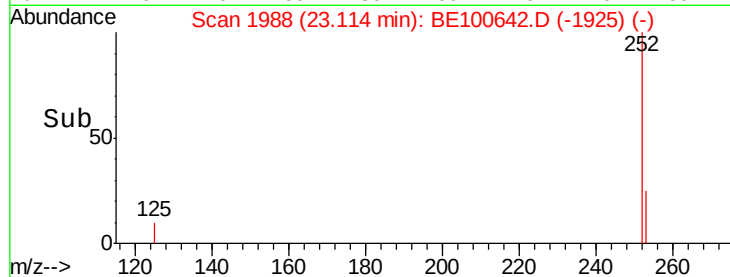
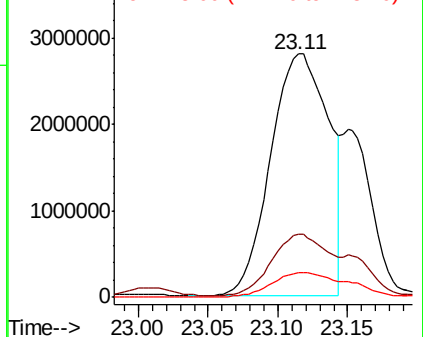
125 10.2 7.6 11.4

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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



#36

Benzo(k)fluoranthene

Concen: 12.069 ng m

RT: 23.15 min Scan# 1998

Delta R.T. 0.01 min

Lab File: BE100642.D

Acq: 15 Oct 2019 9:51

Tgt Ion:252 Resp: 3048185

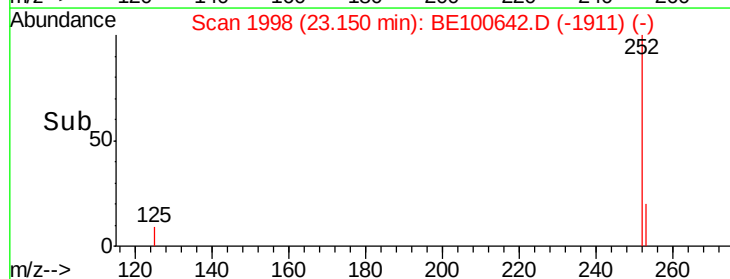
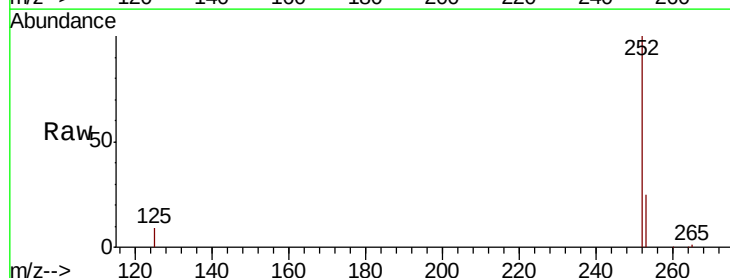
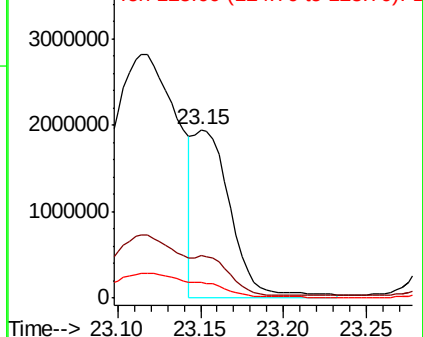
Ion Ratio Lower Upper

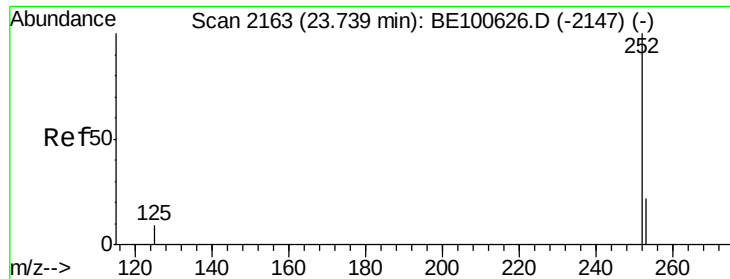
252 100

253 25.0 17.8 26.6

125 9.3 7.6 11.4

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





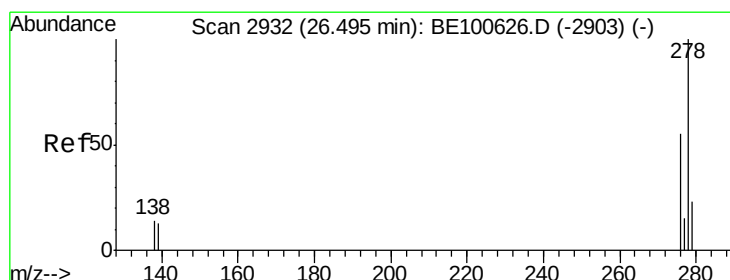
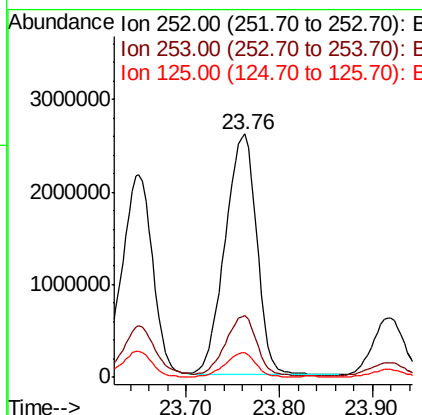
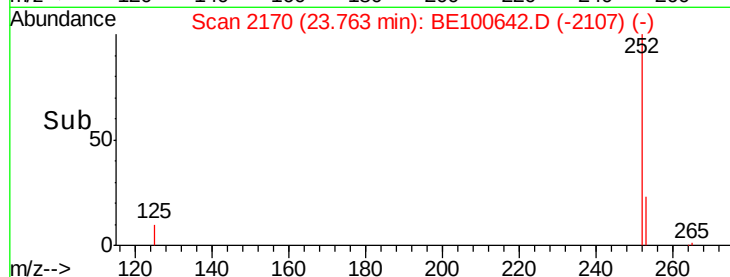
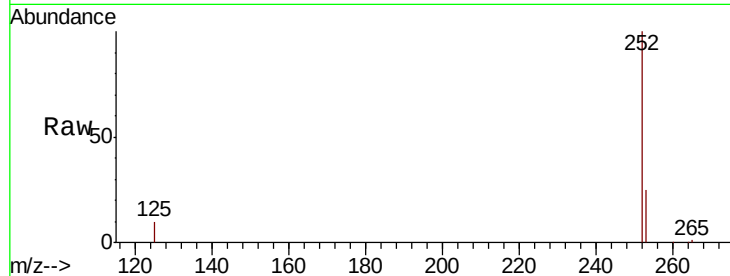
#37  
Benzo(a)pyrene  
Concen: 26.984 ng  
RT: 23.76 min Scan# 2170  
Delta R.T. 0.02 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-SW091-091819-3

Tot Ion:252 Resp: 6168110  
Ion Ratio Lower Upper  
252 100  
253 25.3 18.2 27.2  
125 10.0 8.1 12.1

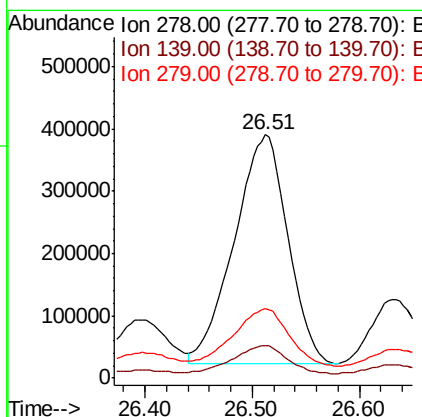
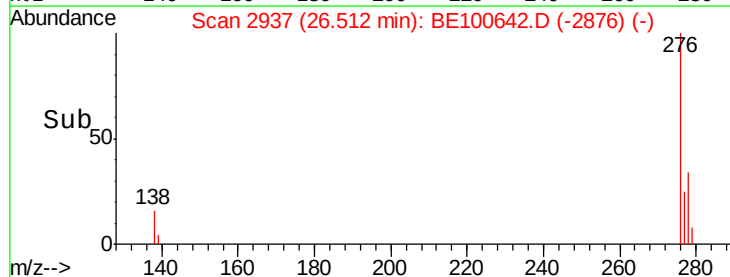
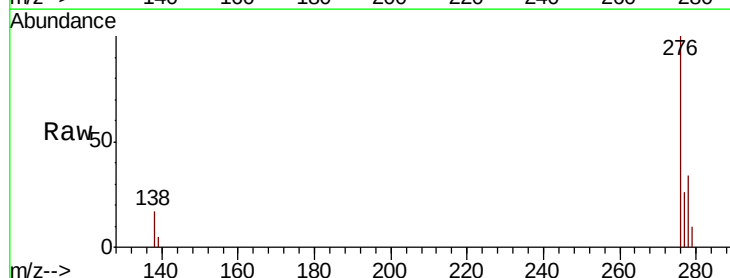
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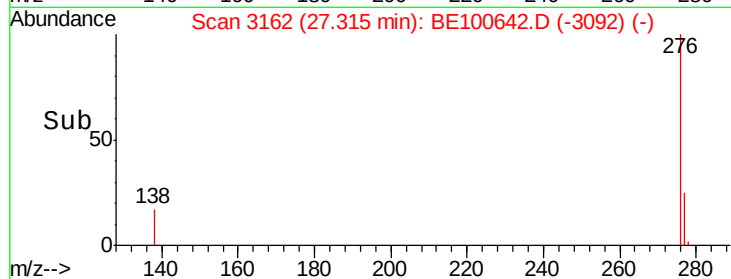
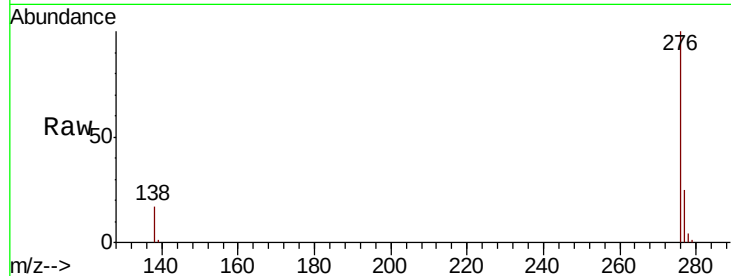
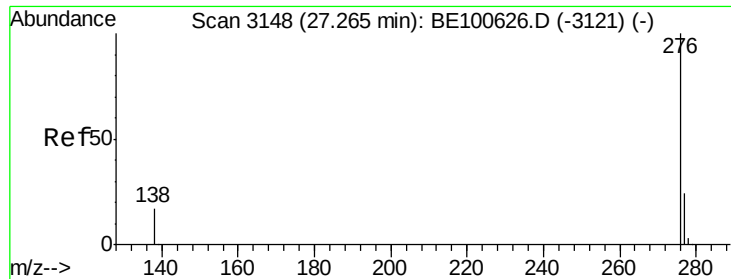
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#38  
Dibenzo(a,h)anthracene  
Concen: 5.371 ng  
RT: 26.51 min Scan# 2937  
Delta R.T. 0.02 min  
Lab File: BE100642.D  
Acq: 15 Oct 2019 9:51

Tgt Ion:278 Resp: 1268895  
Ion Ratio Lower Upper  
278 100  
139 13.2 11.2 16.8  
279 28.5 19.0 28.6





#39

Benzo(a,h,i)perylene

Concen: 19.682 ng

RT: 27.31 min Scan# 3162

Delta R.T. 0.05 min

Lab File: BE100642.D

Acq: 15 Oct 2019 9:51

Tot Ion: 276 Resp: 4676711

Ion Ratio Lower Upper

276 100

277 25.2 19.3 28.9

138 17.3 14.5 21.7

Instrument :

BNA\_E

ClientSampleId :

EXT-SW091-091819-3

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