

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\  
 Data File : BE100215.D  
 Acq On : 27 Jun 2019 21:27  
 Operator : JU/SJ  
 Sample : K3428-12  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-084-SW156-061319

Manual Integrations  
 APPROVED

mohammad  
 7/1/2019 8:12:15 AM

Quant Time: Jun 28 05:54:38 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062519.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 28 05:41:07 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.64  | 152  | 1027     | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.44 | 136  | 3689     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.31 | 164  | 3064     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.05 | 188  | 8306     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.25 | 240  | 12048    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.67 | 264  | 15294    | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| 4) 2-Fluorophenol           | 5.22  | 112 | 883   | 0.39 | ng | 0.00  |
| 5) Phenol-d6                | 6.82  | 99  | 1272  | 0.41 | ng | -0.02 |
| 8) Nitrobenzene-d5          | 8.82  | 82  | 1239  | 0.34 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.04 | 152 | 2591  | 0.37 | ng | -0.03 |
| 14) 2,4,6-Tribromophenol    | 15.81 | 330 | 651   | 0.37 | ng | -0.03 |
| 15) 2-Fluorobiphenyl        | 12.94 | 172 | 3231  | 0.26 | ng | -0.01 |
| 25) Fluoranthene-d10        | 19.10 | 212 | 43692 | 0.36 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.70 | 244 | 6055  | 0.26 | ng | -0.01 |

#### Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 9) Naphthalene                 | 10.48 | 128 | 17308   | 0.430  | ng | # 97   |
| 12) 2-Methylnaphthalene        | 12.12 | 142 | 3534    | 0.545  | ng | 95     |
| 16) Acenaphthylene             | 14.04 | 152 | 27012   | 1.808  | ng | 97     |
| 17) Acenaphthene               | 14.39 | 154 | 8556    | 1.022  | ng | 98     |
| 18) Fluorene                   | 15.35 | 166 | 14661   | 1.211  | ng | # 91   |
| 23) Phenanthrene               | 17.11 | 178 | 403925  | 20.530 | ng | 98     |
| 24) Anthracene                 | 17.19 | 178 | 57175   | 3.441  | ng | 97     |
| 26) Fluoranthene               | 19.13 | 202 | 729296  | 22.785 | ng | 98     |
| 28) Pyrene                     | 19.49 | 202 | 1301867 | 42.195 | ng | # 93   |
| 30) Benzo(a)anthracene         | 21.23 | 228 | 775758  | 21.840 | ng | 97     |
| 31) Chrysene                   | 21.28 | 228 | 774417  | 18.588 | ng | 96     |
| 32) Bis(2-ethylhexyl)phthalate | 21.16 | 149 | 28581   | 0.700  | ng | # 96   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.24 | 276 | 277040  | 4.671  | ng | # 95   |
| 35) Benzo(b)fluoranthene       | 22.93 | 252 | 592068m | 14.393 | ng |        |
| 36) Benzo(k)fluoranthene       | 22.97 | 252 | 166406m | 3.381  | ng |        |
| 37) Benzo(a)pyrene             | 23.57 | 252 | 566473  | 13.290 | ng | # 94   |
| 38) Dibenzo(a,h)anthracene     | 26.24 | 278 | 100003  | 2.193  | ng | # 93   |
| 39) Benzo(a,h,i)perylene       | 27.03 | 276 | 338999  | 7.121  | ng | # 97   |

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

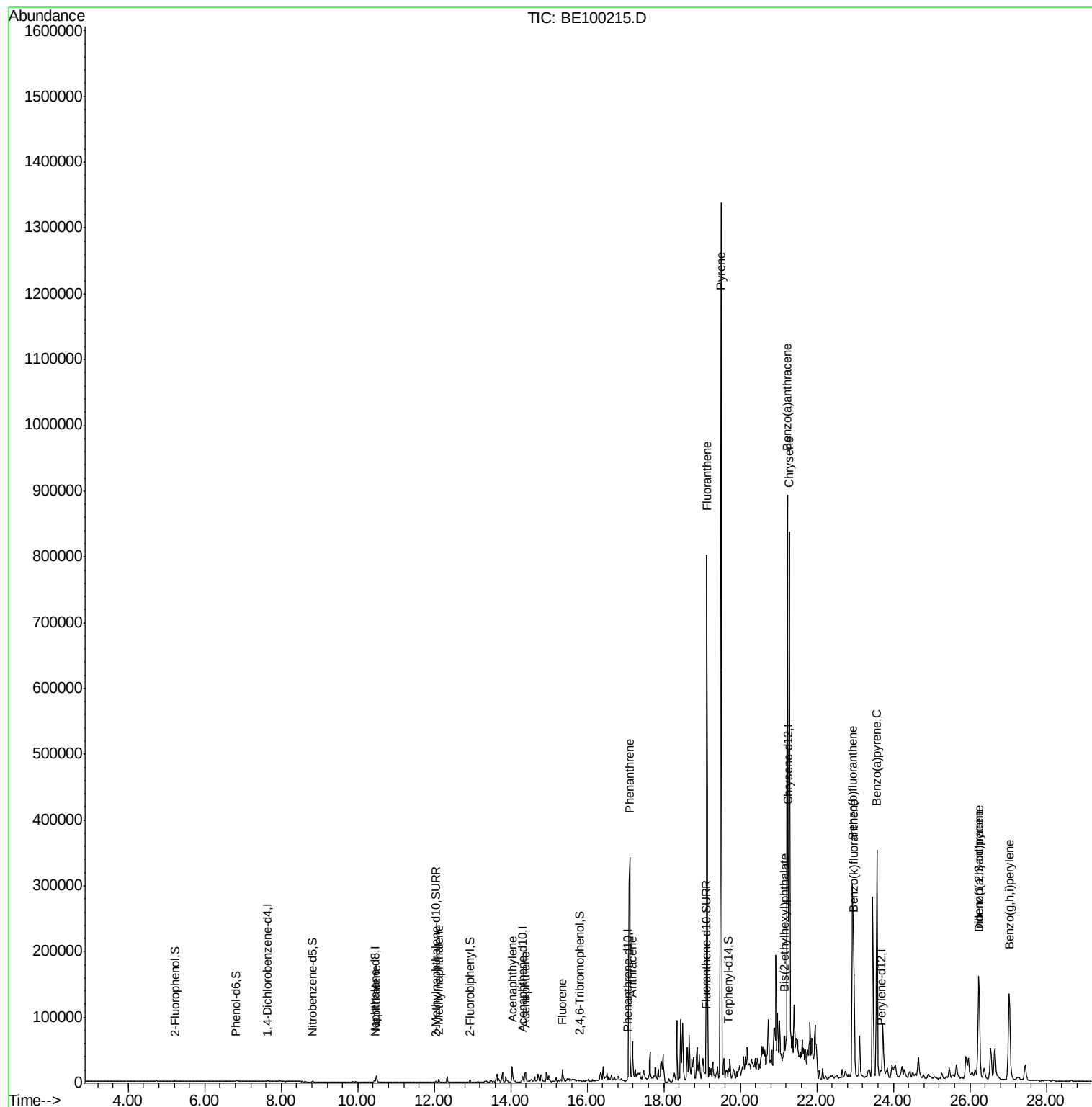
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\  
Data File : BE100215.D  
Acq On : 27 Jun 2019 21:27  
Operator : JU/SJ  
Sample : K3428-12  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

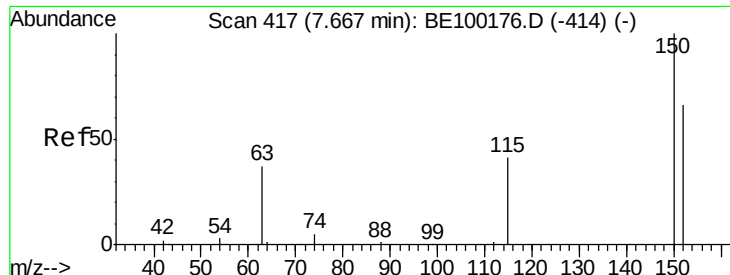
Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW156-061319

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7/1/2019 8:12:15 AM

Quant Time: Jun 28 05:54:38 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 28 05:41:07 2019  
Response via : Initial Calibration





#1

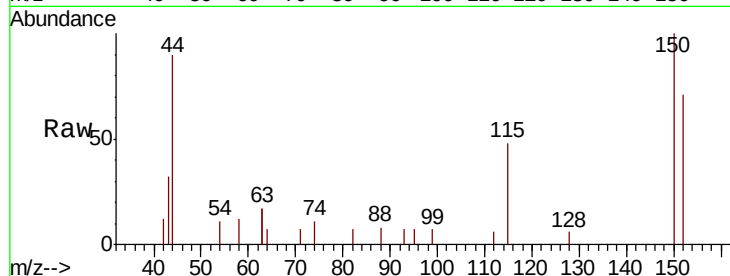
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.64 min Scan# 415  
Delta R.T. -0.01 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW156-061319

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 141.8 | 113.4 | 170.2 |
| 115     | 68.2  | 55.8  | 83.6  |

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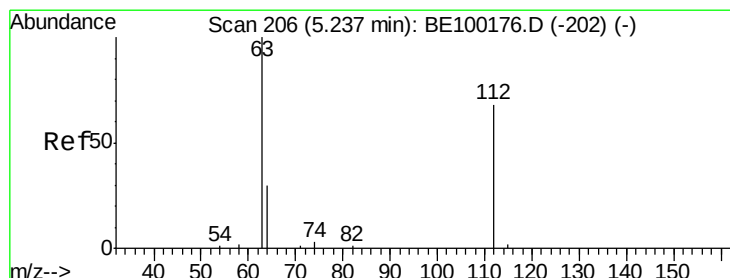
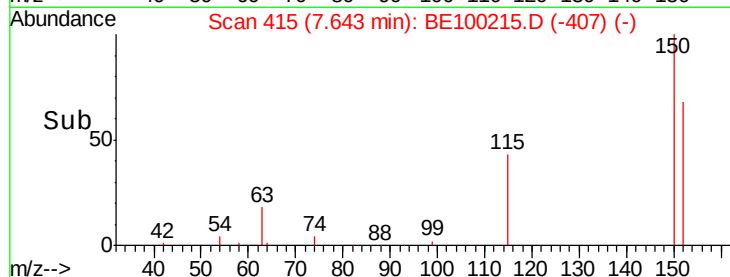
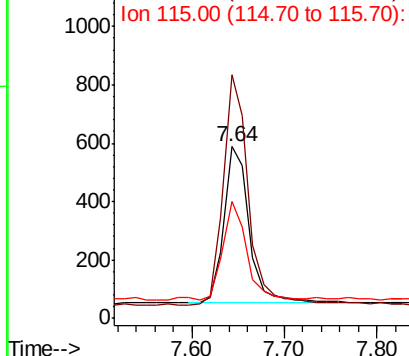


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

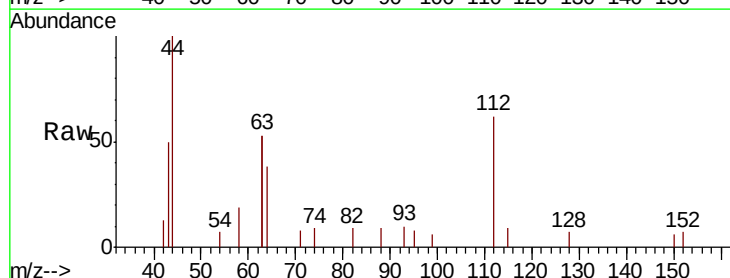
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol  
Concen: 0.387 ng  
RT: 5.22 min Scan# 205  
Delta R.T. -0.00 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.4  | 40.7  | 61.1  |
| 63      | 151.2 | 93.2  | 139.8 |

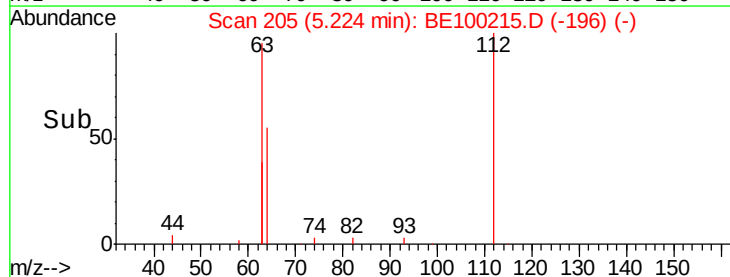
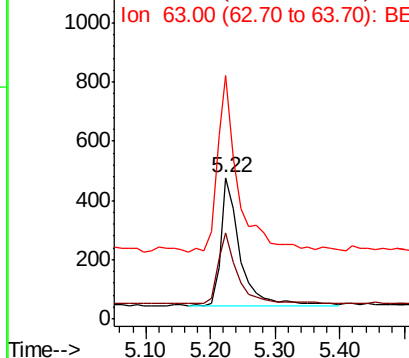


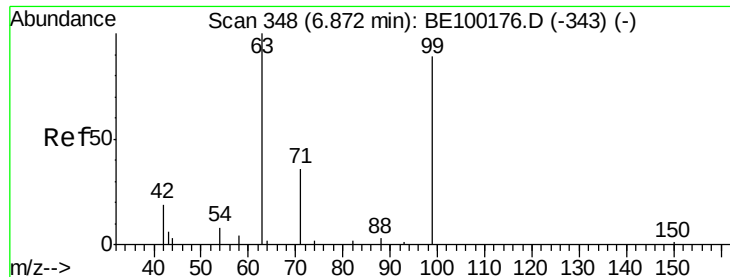
Abundance

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: 0.405 ng

RT: 6.82 min Scan# 344

Delta R.T. -0.02 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA\_E

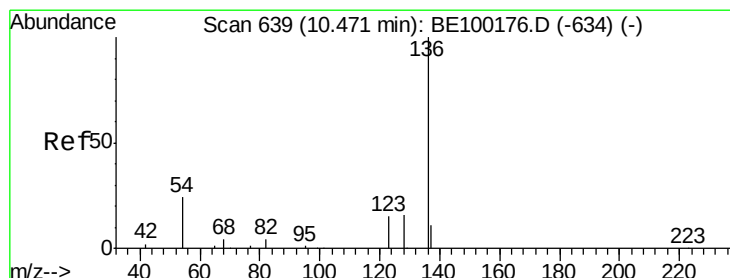
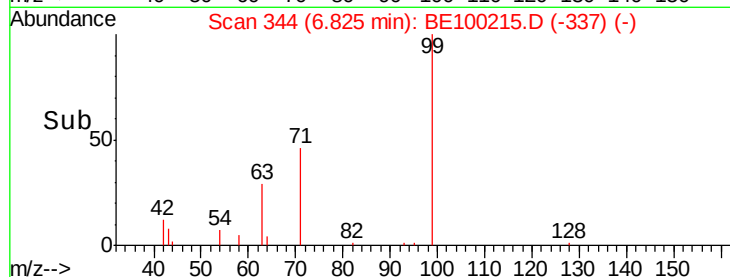
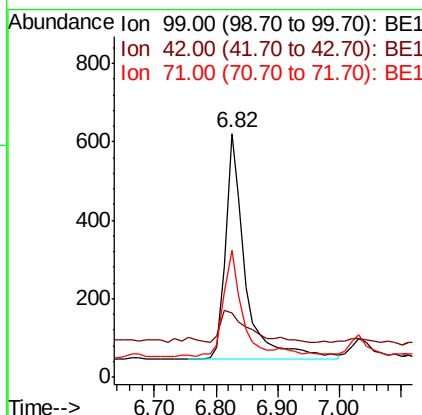
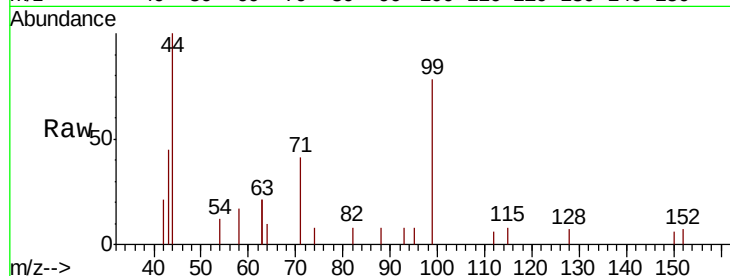
ClientSampleId :

EXT-084-SW156-061319

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 1272  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.8  | 10.4  | 15.6# |
| 71       | 41.6  | 32.4  | 48.6  |

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#7

Naphthalene-d8

Concen: 0.400 ng

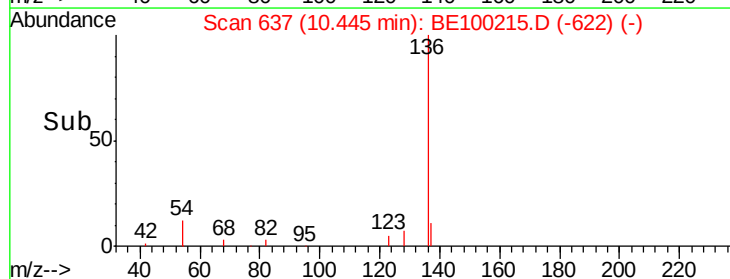
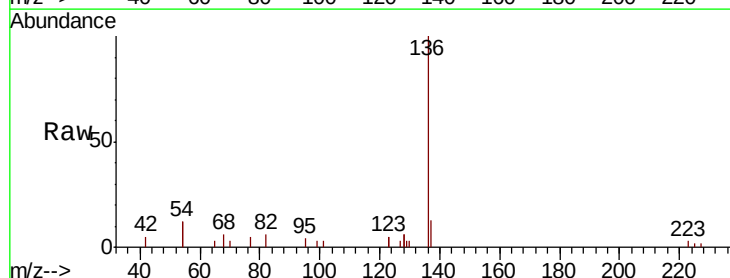
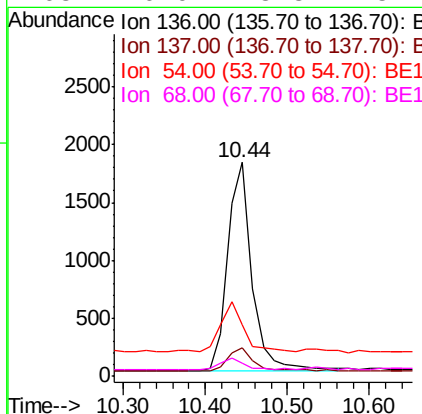
RT: 10.44 min Scan# 637

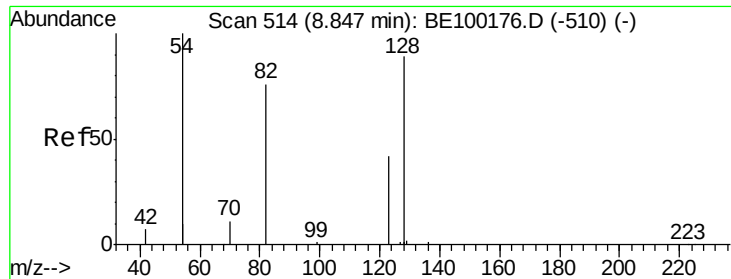
Delta R.T. 0.00 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 3689  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 13.2  | 13.8  | 20.8# |
| 54       | 23.7  | 35.4  | 53.2# |
| 68       | 6.0   | 8.8   | 13.2# |





#8

Nitrobenzene-d5

Concen: 0.338 ng

RT: 8.82 min Scan# 512

Delta R.T. -0.01 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA\_E

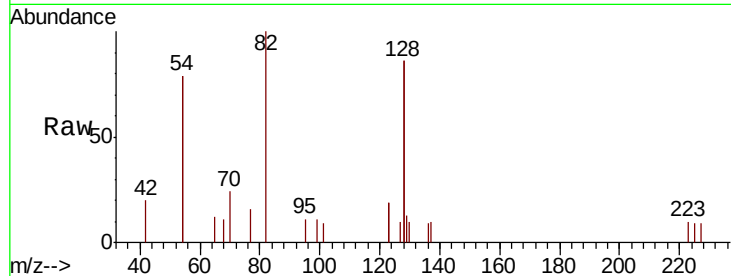
ClientSampleId :

EXT-084-SW156-061319

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 82    | Resp: | 1239   |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 172.0 | 144.6 | 217.0  |
| 54       | 158.8 | 163.0 | 244.6# |

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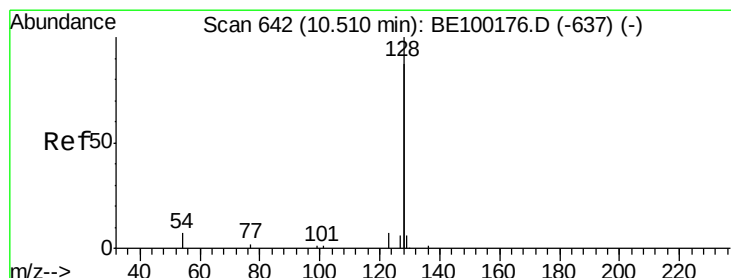
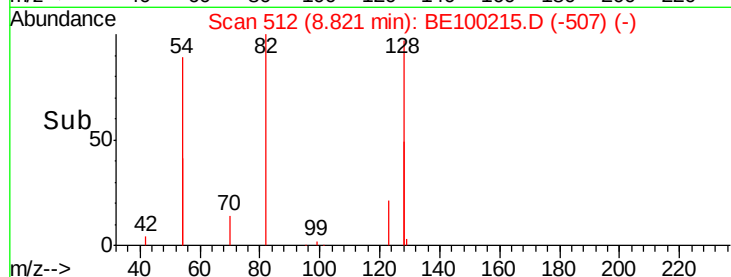
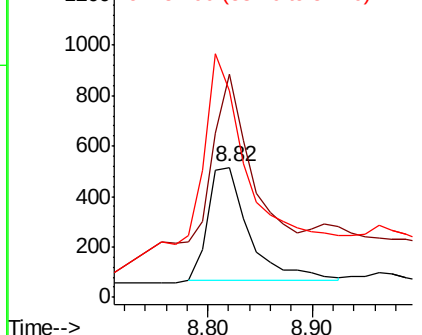


Abundance

Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 0.430 ng

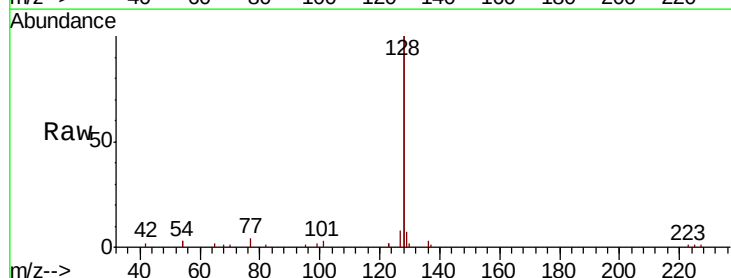
RT: 10.48 min Scan# 640

Delta R.T. -0.01 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 17308 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 3.4   | 3.6   | 5.4#  |
| 127      | 3.8   | 3.8   | 5.8#  |

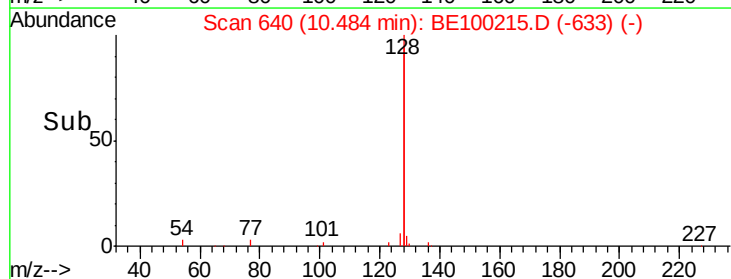
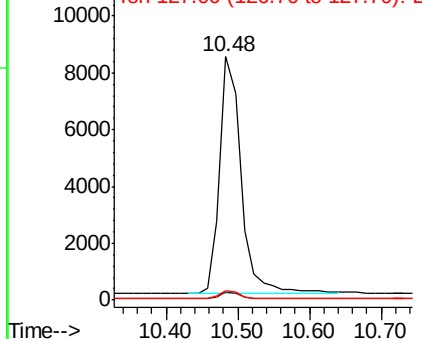


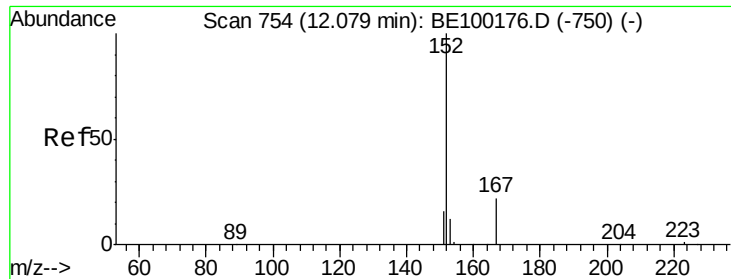
Abundance

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





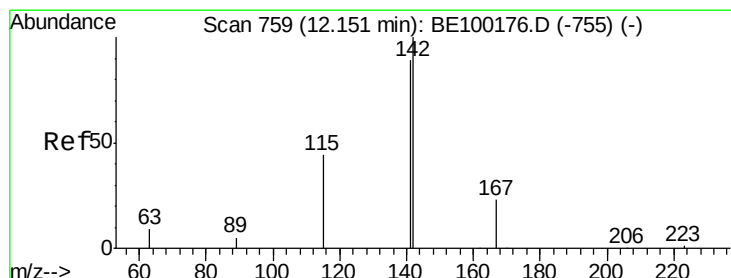
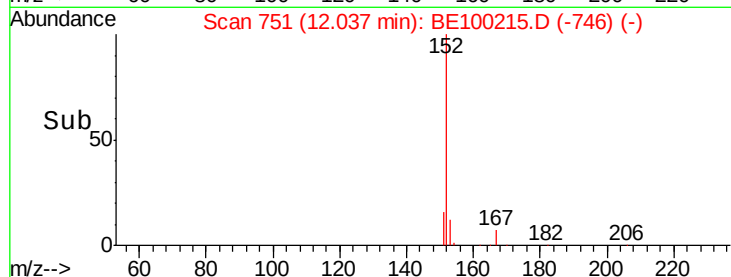
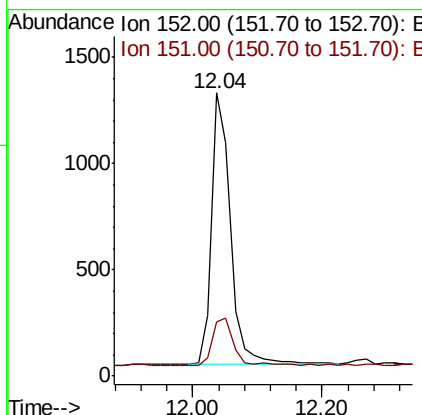
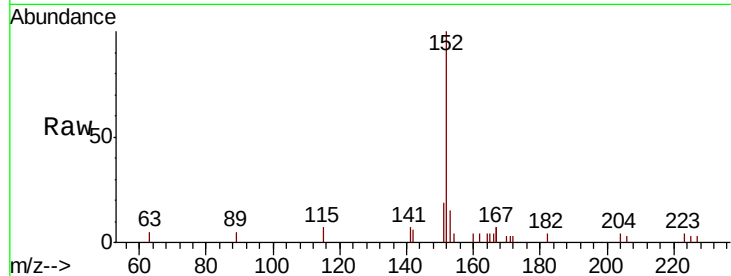
#11  
2-Methylnaphthalene-d10  
Concen: 0.375 ng  
RT: 12.04 min Scan# 751  
Delta R.T. -0.03 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW156-061319

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 152     | 100  |       |       |       |
| 151     | 19.6 | 16.3  | 24.5  |       |

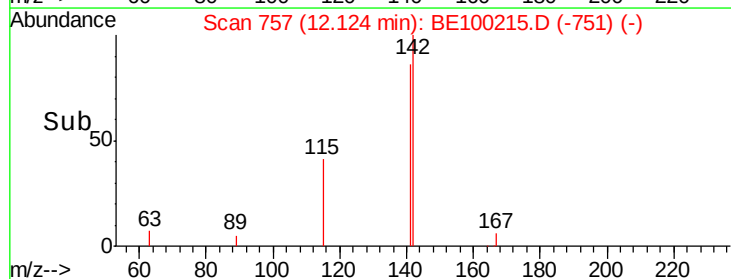
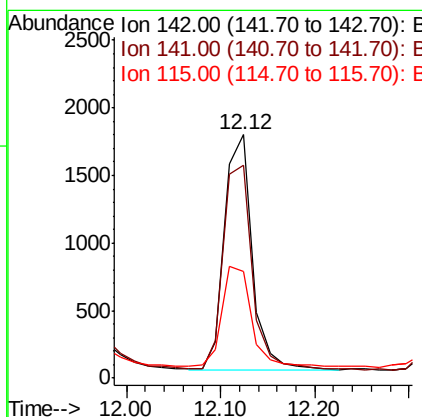
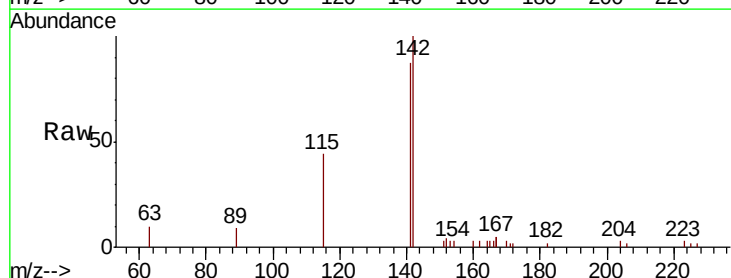
Manual Integrations  
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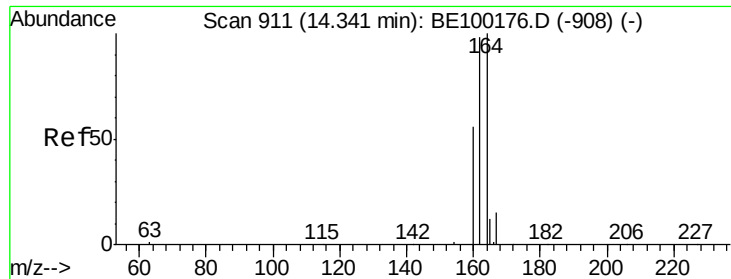
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#12  
2-Methylnaphthalene  
Concen: 0.545 ng  
RT: 12.12 min Scan# 757  
Delta R.T. -0.01 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 142     | 100  |       |       |       |
| 141     | 87.2 | 71.8  | 107.8 |       |
| 115     | 44.1 | 40.4  | 60.6  |       |





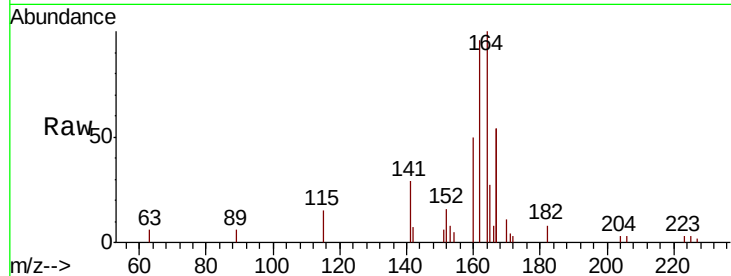
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.31 min Scan# 909  
Delta R.T. -0.01 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW156-061319

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 96.3  | 78.6  | 118.0 |
| 160     | 49.7  | 46.9  | 70.3  |

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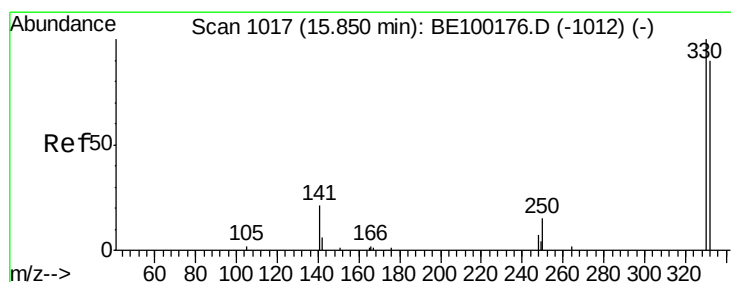
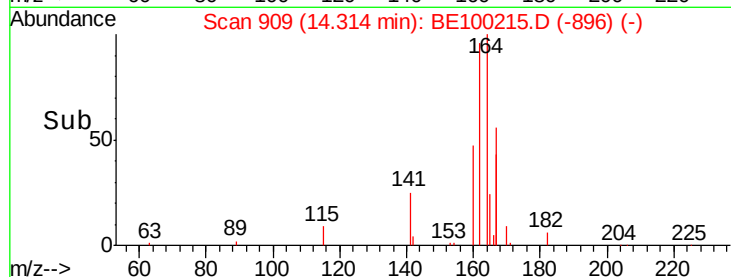
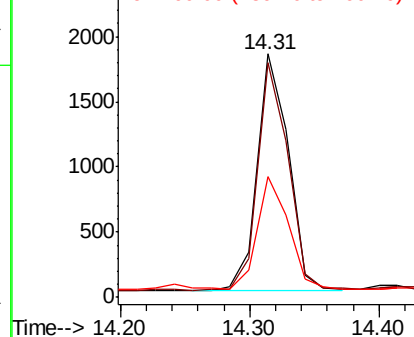


Abundance

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: 0.367 ng  
RT: 15.81 min Scan# 1014  
Delta R.T. -0.03 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

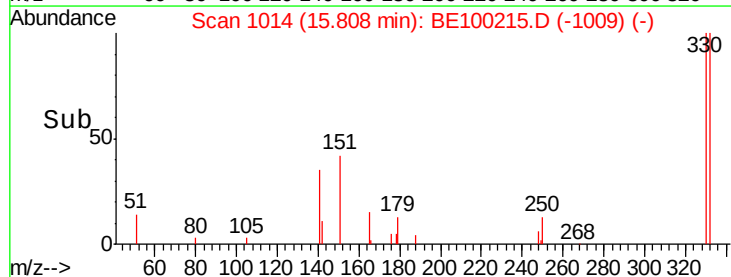
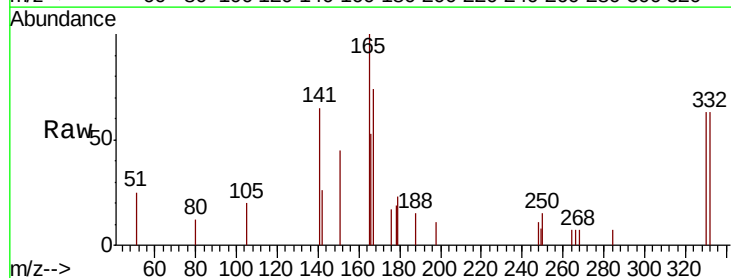
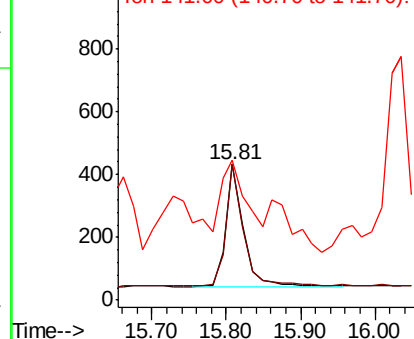
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.7  | 77.7  | 116.5 |
| 141     | 75.6  | 18.9  | 28.3  |

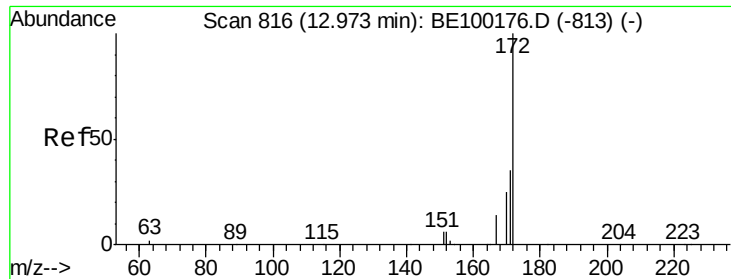
Abundance

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





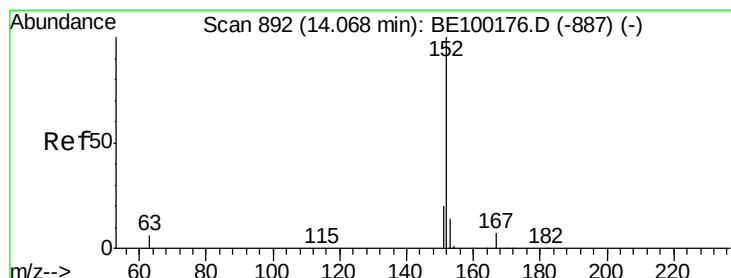
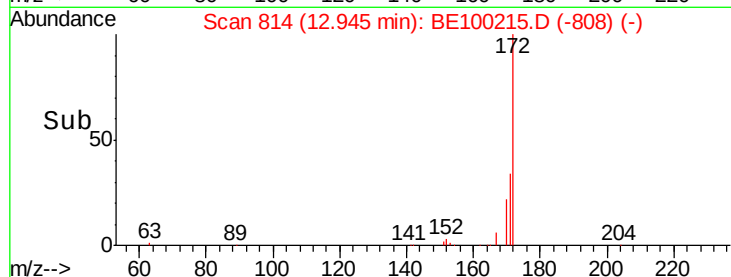
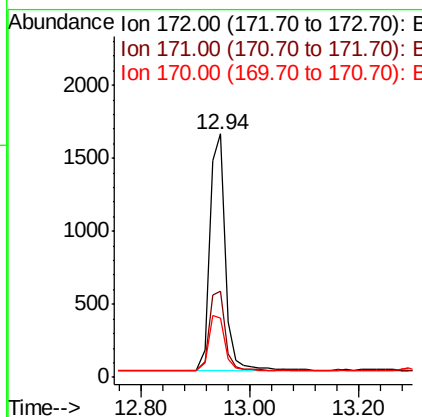
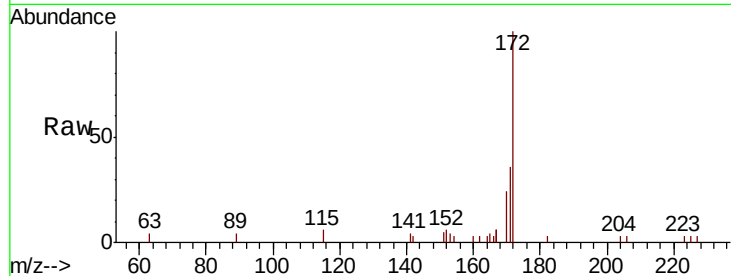
#15  
2-Fluorobiphenyl  
Concen: 0.263 ng  
RT: 12.94 min Scan# 814  
Delta R.T. -0.01 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW156-061319

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 31.0  | 46.4  |
| 170     | 24.3  | 23.9  | 35.9  |

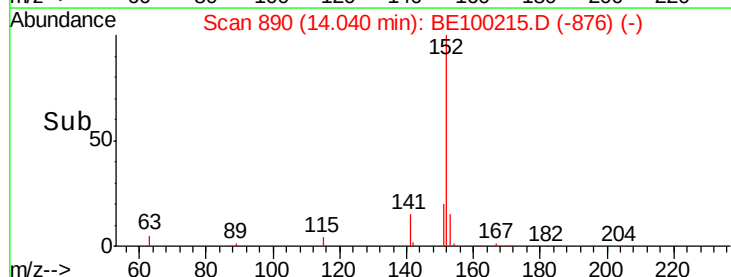
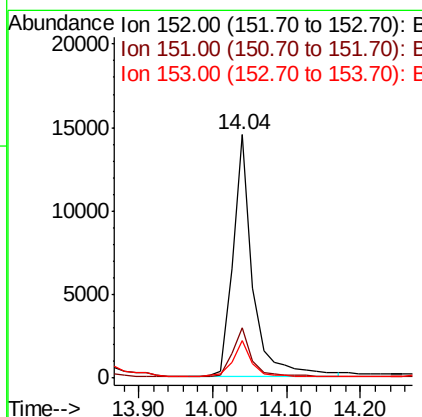
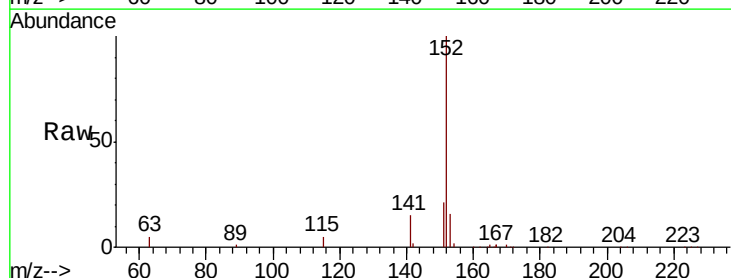
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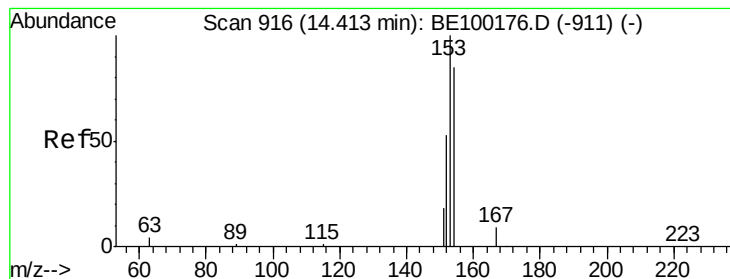


#16  
Acenaphthylene  
Concen: 1.808 ng  
RT: 14.04 min Scan# 890  
Delta R.T. 0.00 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.3  | 15.4  | 23.0  |
| 153     | 14.7  | 10.8  | 16.2  |







#17

Acenaphthene

Concen: 1.022 ng

RT: 14.39 min Scan# 914

Delta R.T. 0.00 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA\_E

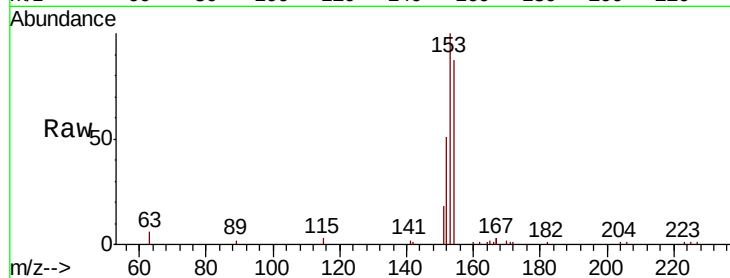
ClientSampleId :

EXT-084-SW156-061319

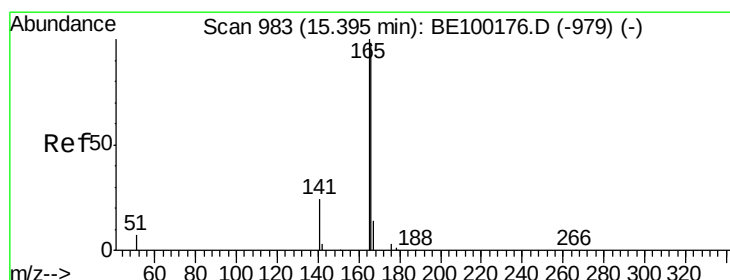
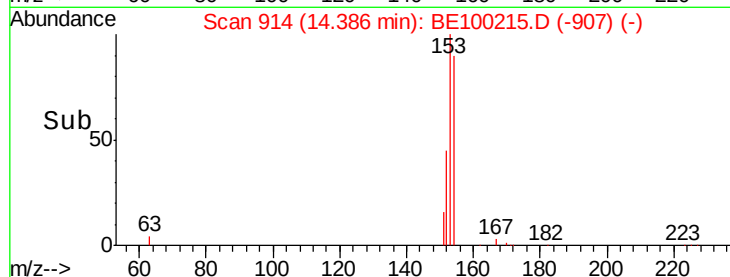
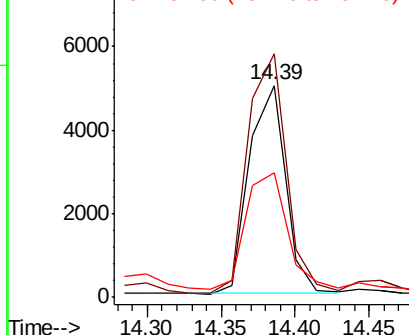
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 8556  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 121.6 | 95.3  | 142.9 |
| 152       | 65.1  | 52.9  | 79.3  |

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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: 1.211 ng

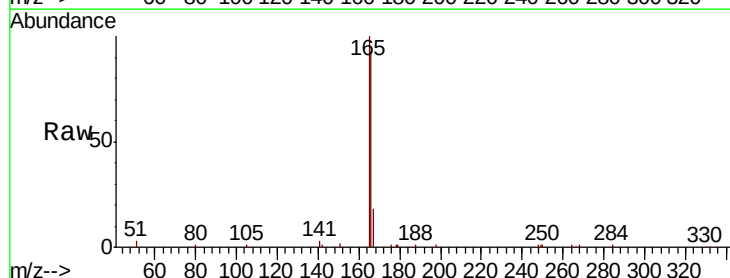
RT: 15.35 min Scan# 980

Delta R.T. -0.01 min

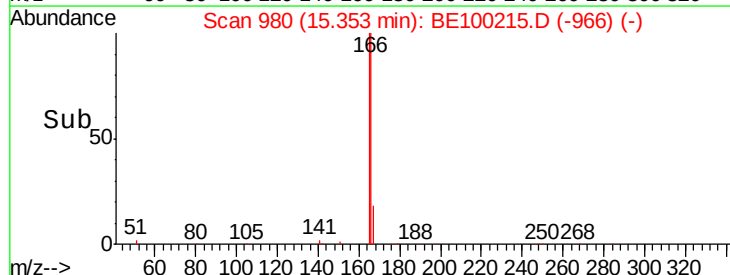
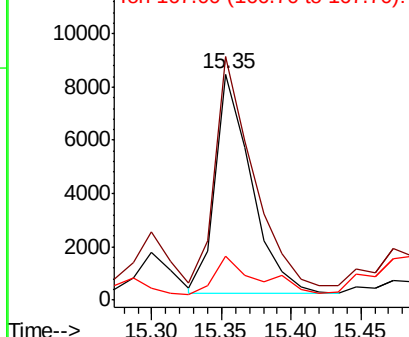
Lab File: BE100215.D

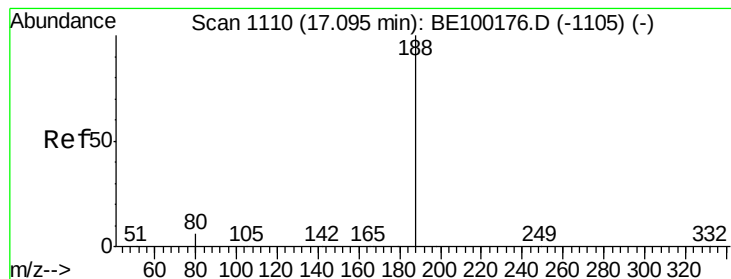
Acq: 27 Jun 2019 21:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 14661 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 109.1 | 81.0  | 121.4 |
| 167       | 22.2  | 11.4  | 17.0# |



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: 17.05 min Scan# 1107

Delta R.T. -0.01 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA\_E

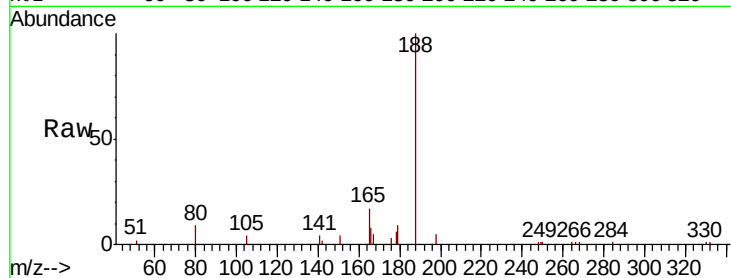
ClientSampleId :

EXT-084-SW156-061319

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 188   | Resp: | 8306 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 9.0   | 6.4   | 9.6  |

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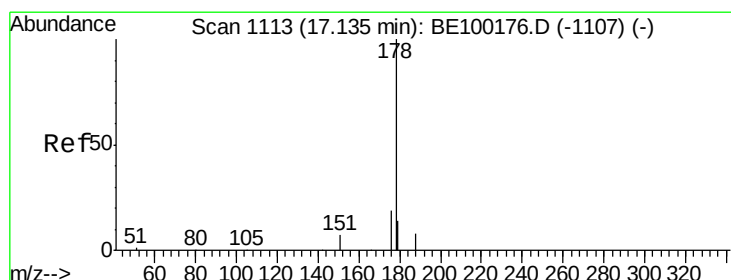
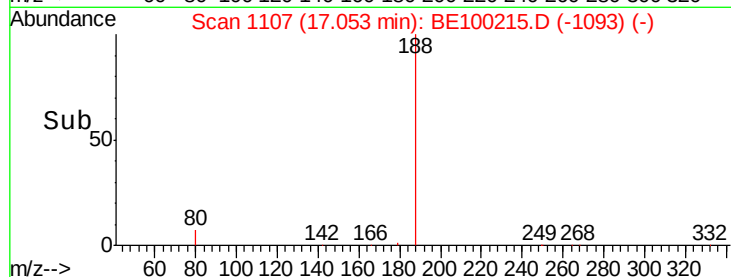
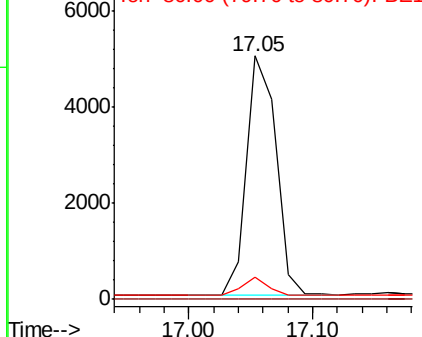
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#23

Phenanthrene

Concen: 20.530 ng

RT: 17.11 min Scan# 1111

Delta R.T. -0.00 min

Lab File: BE100215.D

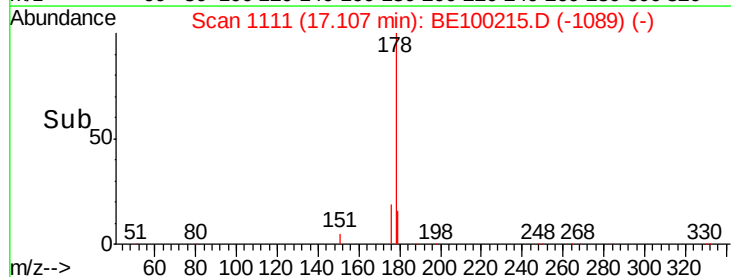
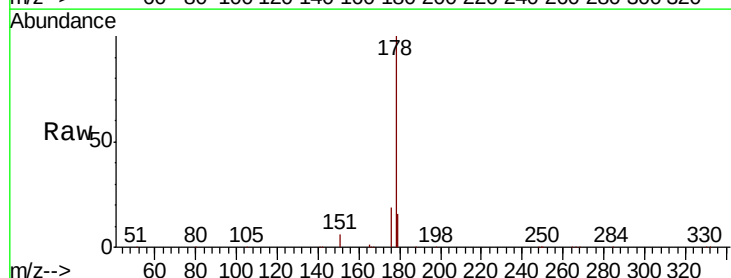
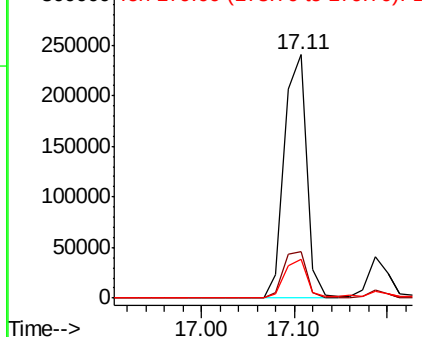
Acq: 27 Jun 2019 21:27

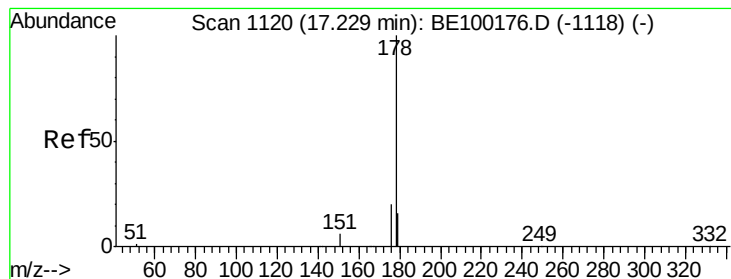
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 403925 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 20.0  | 15.5  | 23.3   |
| 179       | 16.1  | 12.2  | 18.2   |

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: 3.441 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.01 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA\_E

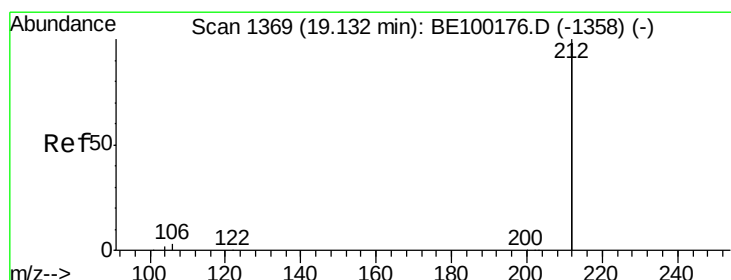
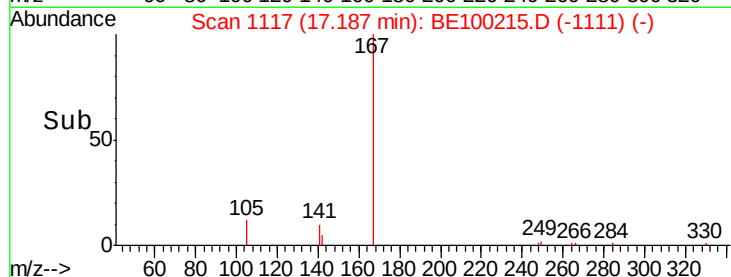
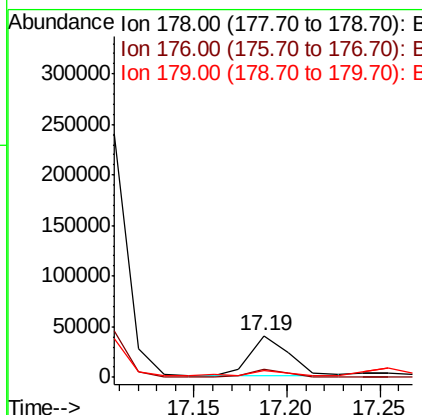
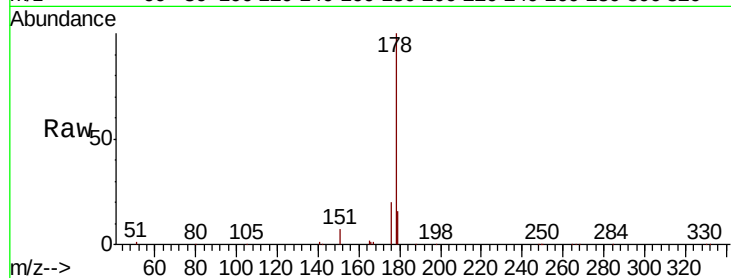
ClientSampleId :

EXT-084-SW156-061319

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 15.7  | 23.5  |
| 179     | 14.2  | 12.9  | 19.3  |

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#25

Fluoranthene-d10

Concen: 0.365 ng

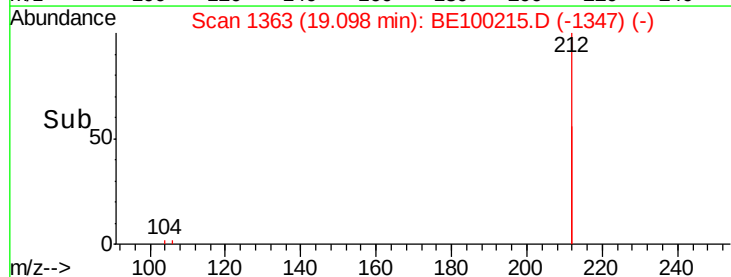
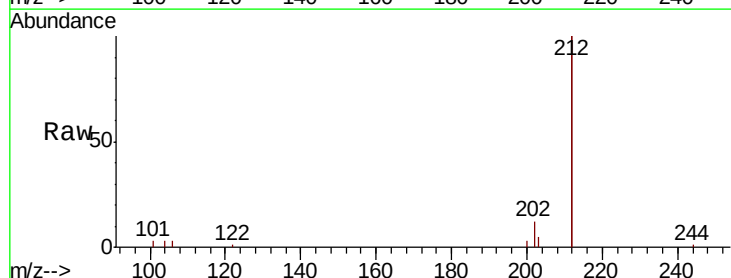
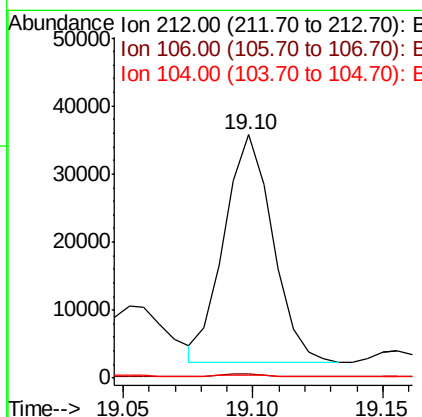
RT: 19.10 min Scan# 1363

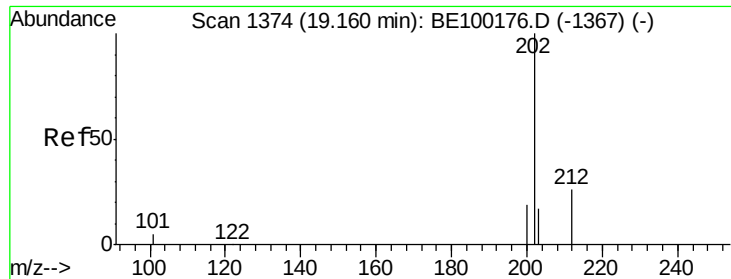
Delta R.T. -0.01 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 1.4   | 1.3   | 1.9   |
| 104     | 1.1   | 0.7   | 1.1#  |





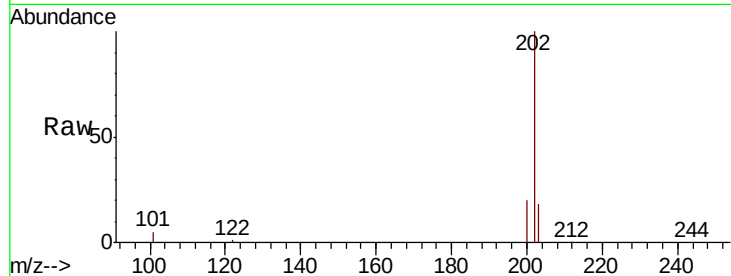
#26  
Fluoranthene  
Concen: 22.785 ng  
RT: 19.13 min Scan# 1368  
Delta R.T. -0.01 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW156-061319

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 5.2   | 4.5   | 6.7   |
| 203     | 18.3  | 13.7  | 20.5  |

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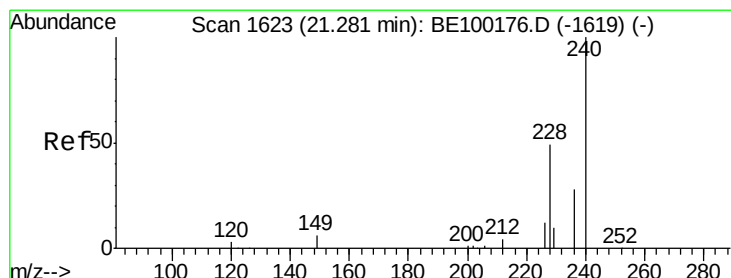
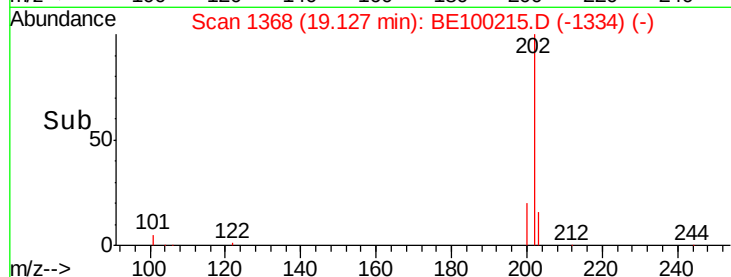
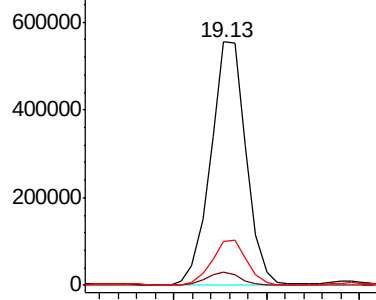


Abundance

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: 21.25 min Scan# 1620  
Delta R.T. 0.00 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

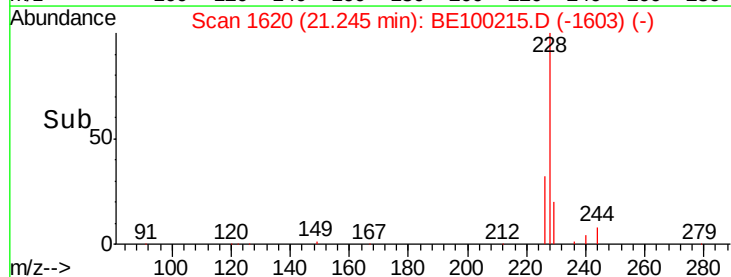
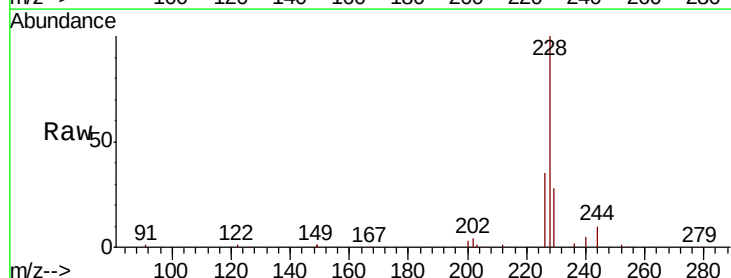
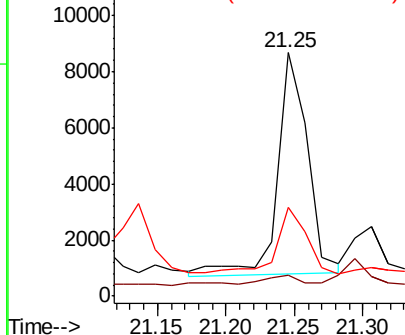
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 8.8   | 4.1   | 6.1#  |
| 236     | 36.6  | 23.0  | 34.6# |

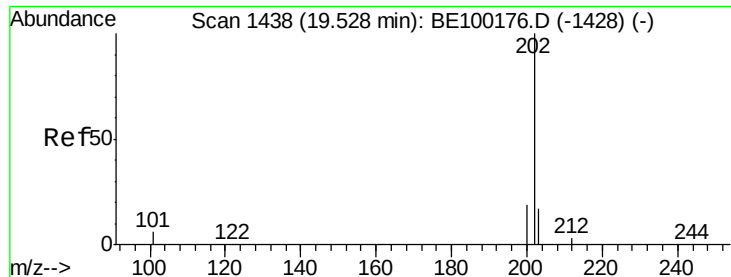
Abundance

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





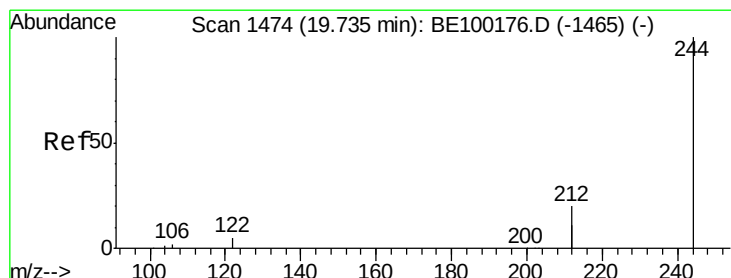
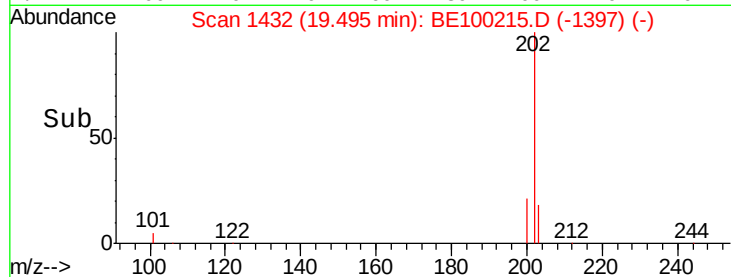
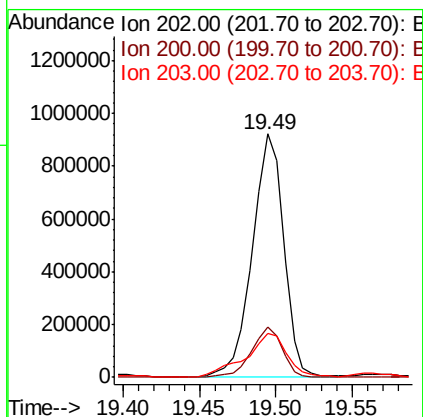
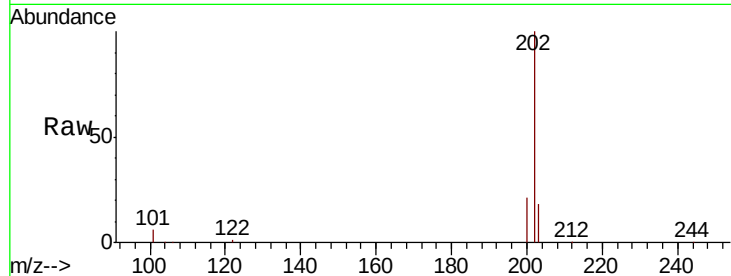
#28  
Pvrene  
Concen: 42.195 ng  
RT: 19.49 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW156-061319

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.3  | 15.5  | 23.3  |
| 203     | 23.4  | 13.9  | 20.9  |

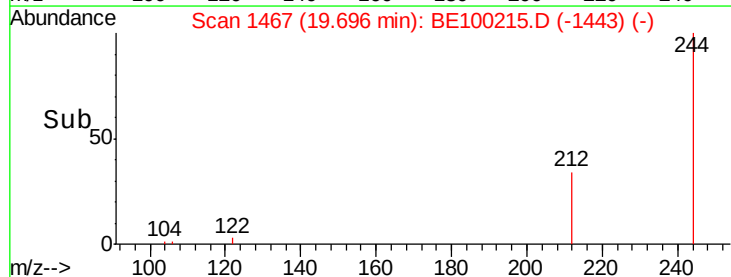
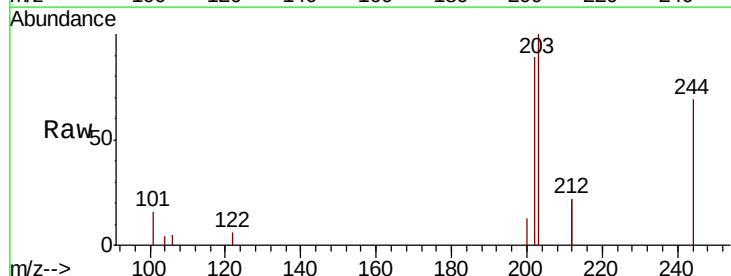
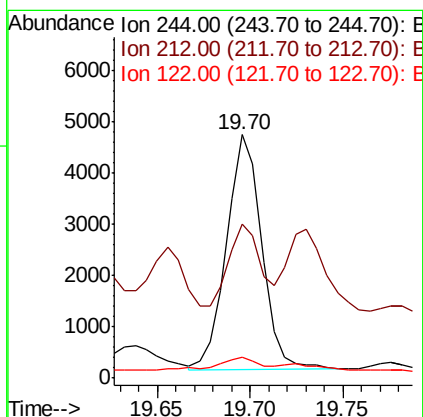
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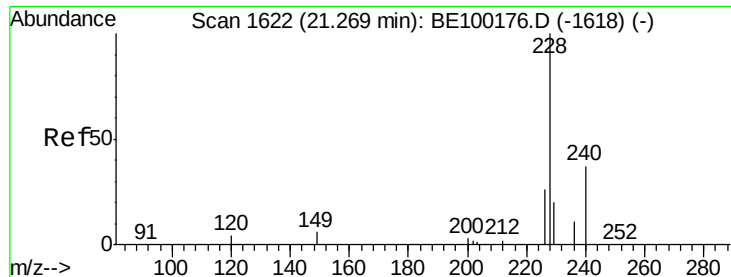
mohammad  
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#29  
Terphenyl-d14  
Concen: 0.256 ng  
RT: 19.70 min Scan# 1467  
Delta R.T. -0.01 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 63.5  | 30.7  | 46.1  |
| 122     | 8.3   | 5.8   | 8.6   |





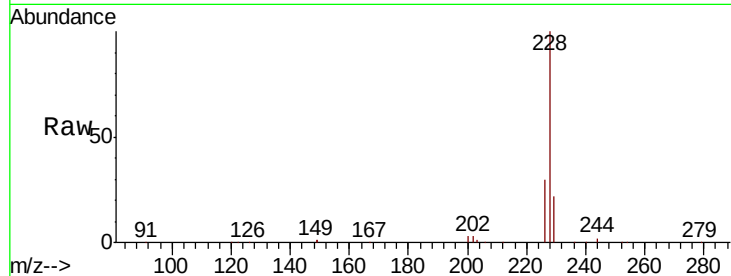
#30  
Benzo(a)anthracene  
Concen: 21.840 ng  
RT: 21.23 min Scan# 1619  
Delta R.T. 0.00 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW156-061319

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 21.5  | 32.3  |
| 229     | 22.0  | 17.2  | 25.8  |

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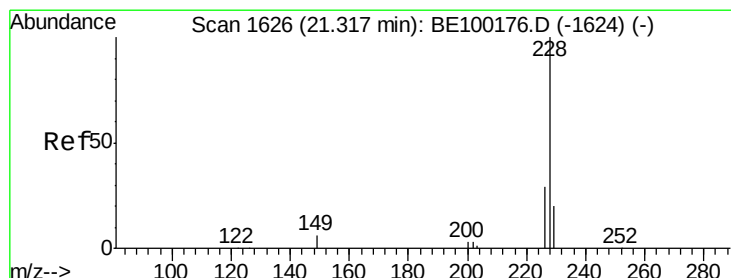
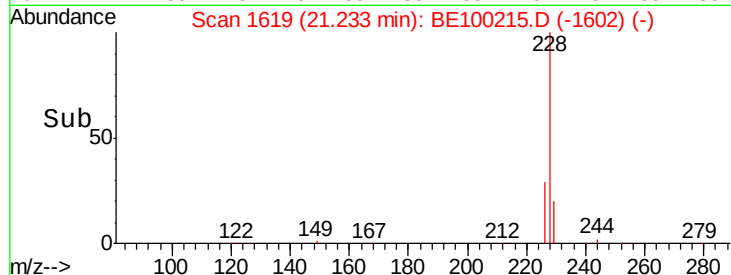
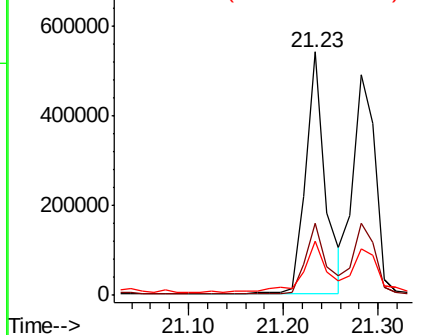


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31  
Chrysene  
Concen: 18.588 ng  
RT: 21.28 min Scan# 1623  
Delta R.T. 0.00 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

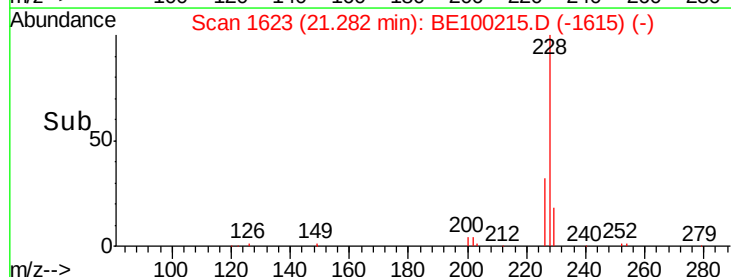
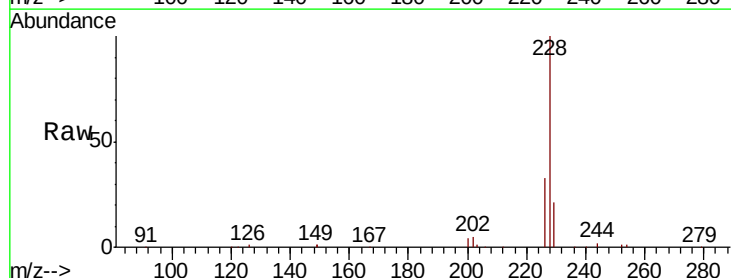
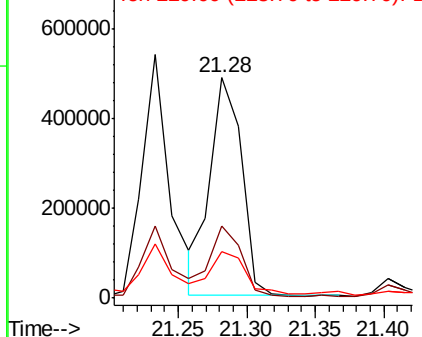
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.5  | 23.7  | 35.5  |
| 229     | 21.3  | 16.5  | 24.7  |

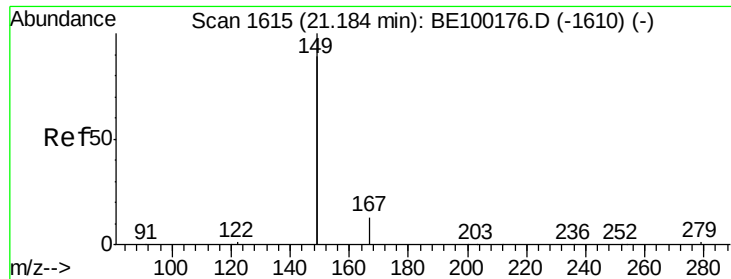
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.700 ng

RT: 21.16 min Scan# 1613

Delta R.T. 0.00 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

Instrument :

BNA\_E

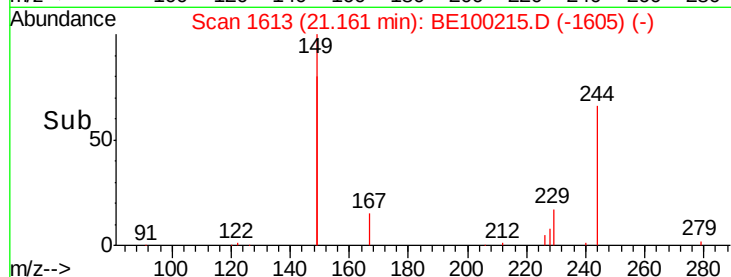
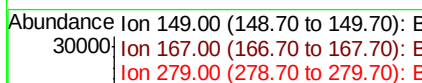
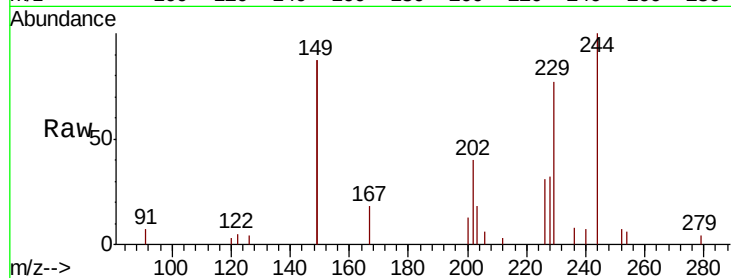
ClientSampleId :

EXT-084-SW156-061319

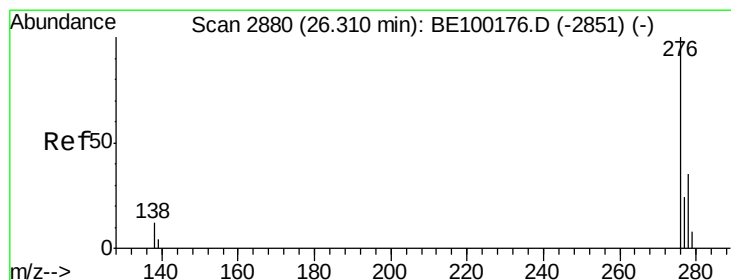
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 28581 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 9.1   | 5.9   | 8.9#  |
| 279       | 1.4   | 1.0   | 1.6   |

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Time-->



#33

Indeno(1,2,3-cd)pyrene

Concen: 4.671 ng

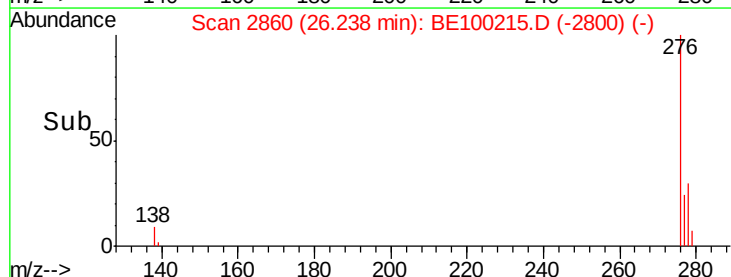
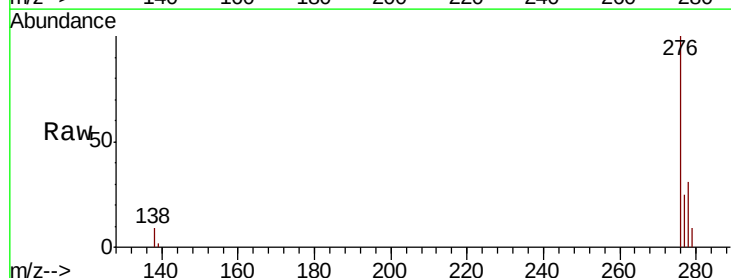
RT: 26.24 min Scan# 2860

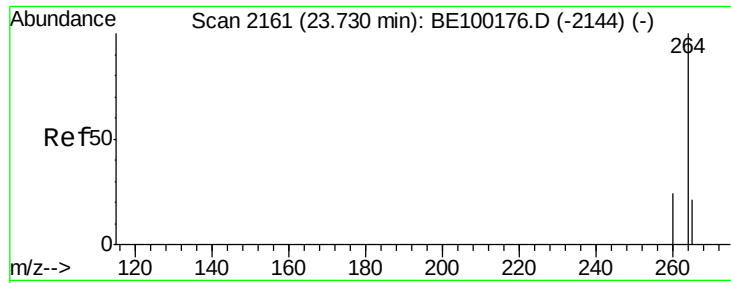
Delta R.T. 0.01 min

Lab File: BE100215.D

Acq: 27 Jun 2019 21:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 277040 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 9.3   | 3.7   | 5.5#   |
| 277       | 25.1  | 18.7  | 28.1   |





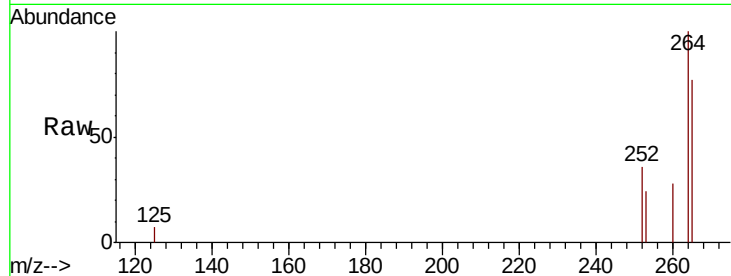
#34  
Pervlene-d12  
Concen: 0.400 ng  
RT: 23.67 min Scan# 2145  
Delta R.T. 0.00 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW156-061319

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 28.1  | 20.4  | 30.6  |
| 265     | 77.2  | 22.5  | 33.7  |

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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

25000

20000

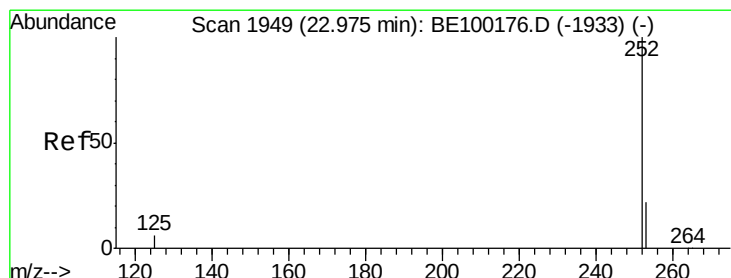
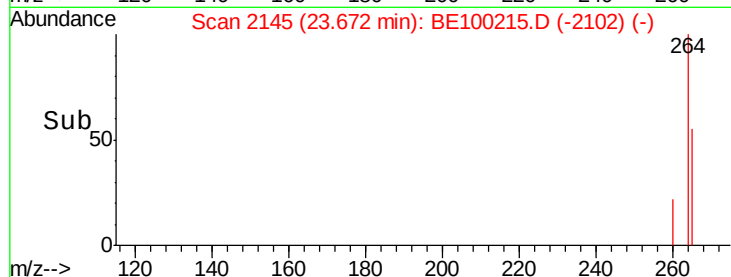
15000

10000

5000

0

Time-->



#35  
Benzo(b)fluoranthene  
Concen: 14.393 ng m  
RT: 22.93 min Scan# 1938  
Delta R.T. 0.01 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 19.0  | 28.4  |
| 125     | 4.5   | 6.3   | 9.5   |

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

300000

250000

200000

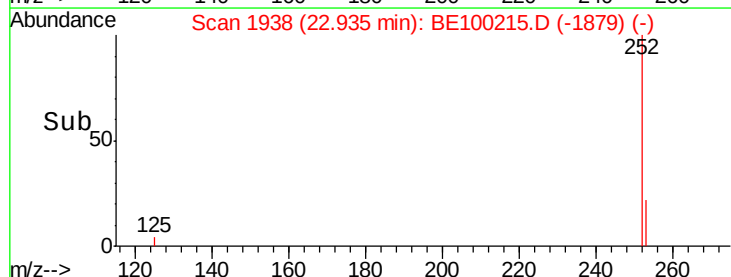
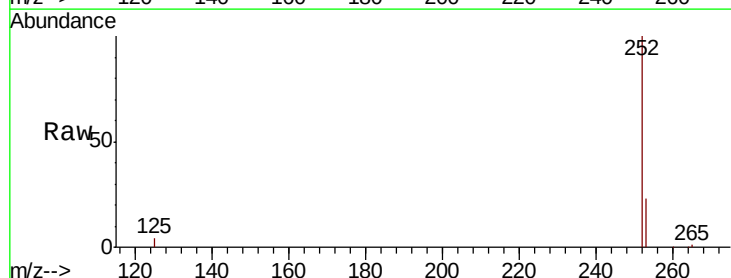
150000

100000

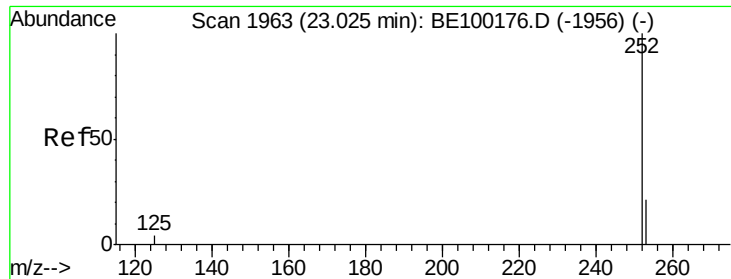
50000

0

Time-->







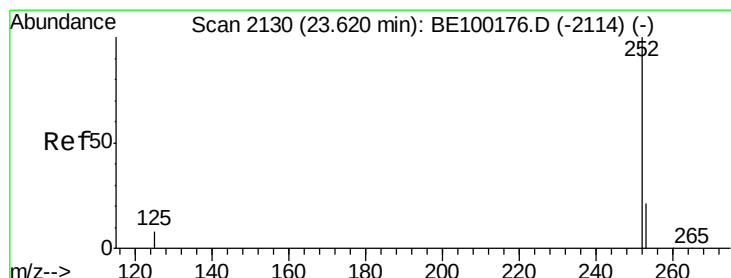
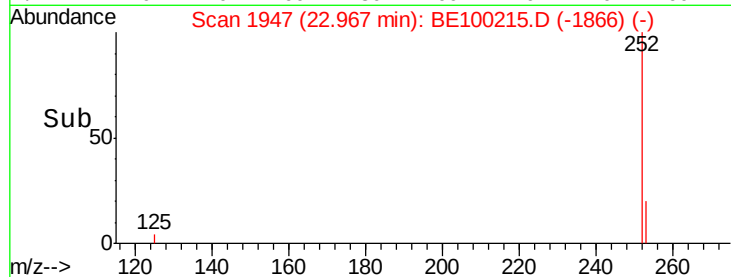
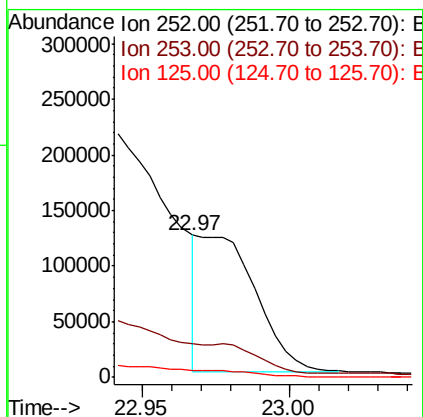
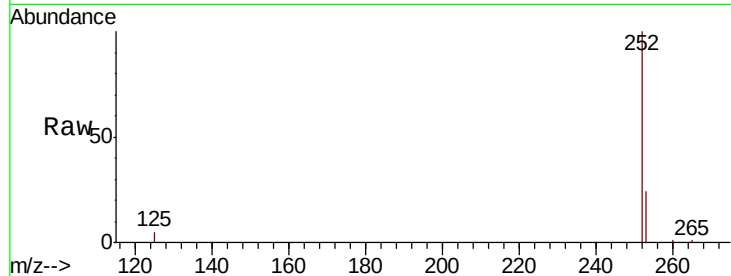
#36  
Benzo(k)fluoranthene  
Concen: 3.381 ng m  
RT: 22.97 min Scan# 1947  
Delta R.T. -0.01 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW156-061319

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 18.4  | 27.6  |
| 125     | 4.8   | 5.0   | 7.4#  |

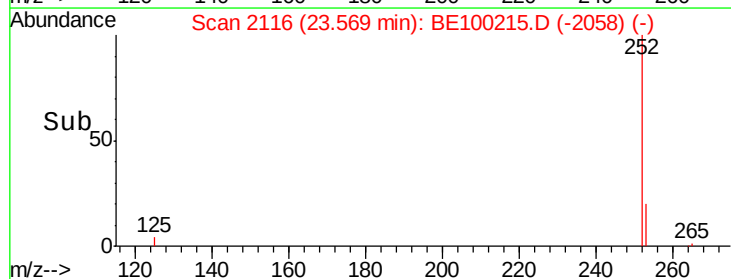
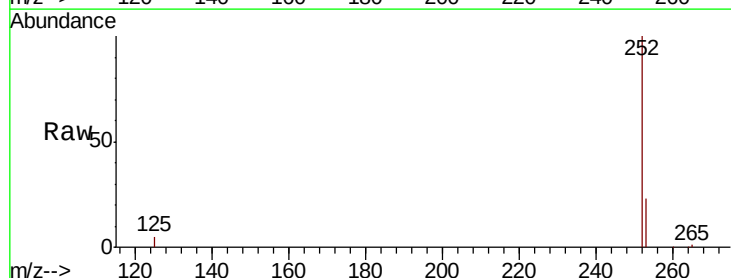
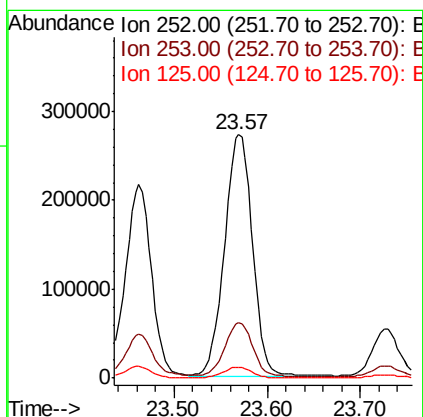
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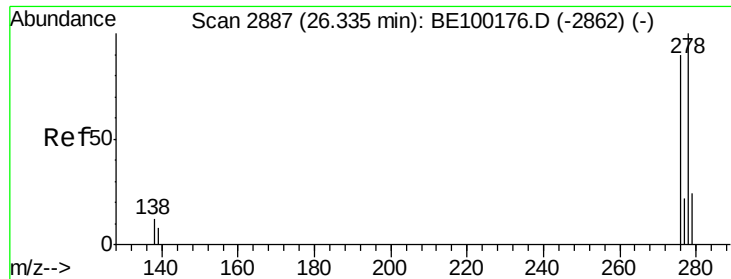
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#37  
Benzo(a)pyrene  
Concen: 13.290 ng  
RT: 23.57 min Scan# 2116  
Delta R.T. 0.01 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 19.2  | 28.8  |
| 125     | 4.6   | 8.2   | 12.2# |





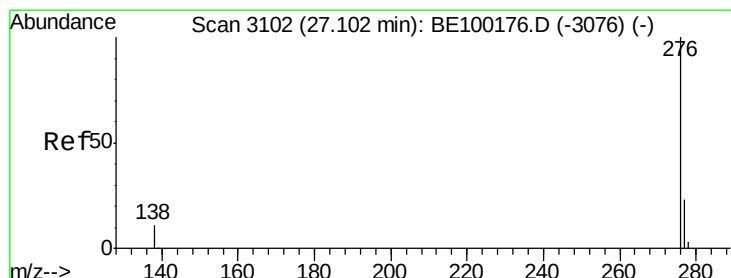
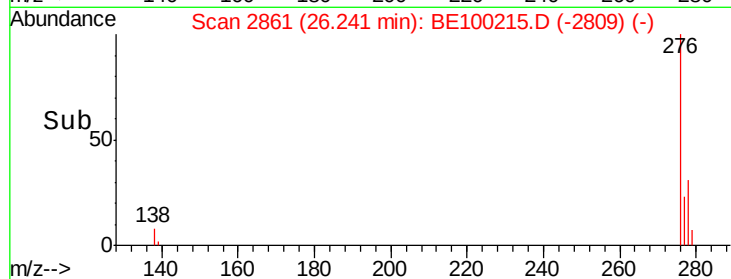
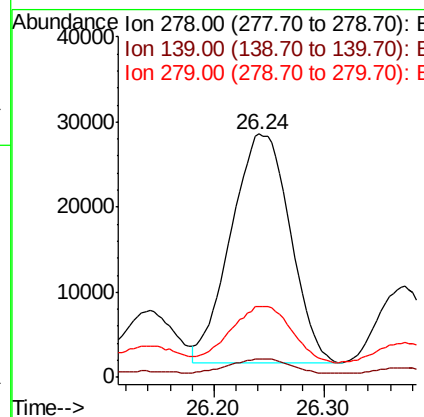
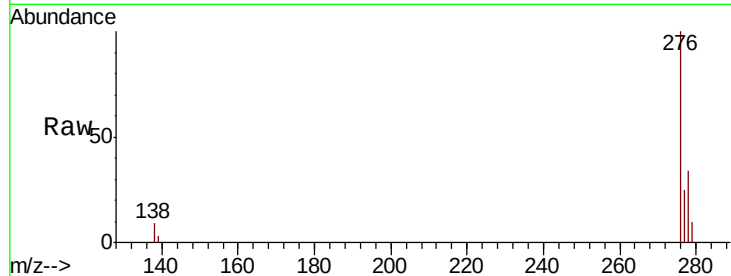
#38  
Dibenzo(a,h)anthracene  
Concen: 2.193 ng  
RT: 26.24 min Scan# 2861  
Delta R.T. -0.01 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW156-061319

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 7.6   | 9.0   | 13.4# |
| 279     | 29.3  | 21.1  | 31.7  |

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#39  
Benzo(g,h,i)perylene  
Concen: 7.121 ng  
RT: 27.03 min Scan# 3082  
Delta R.T. 0.01 min  
Lab File: BE100215.D  
Acq: 27 Jun 2019 21:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.5  | 19.8  | 29.6  |
| 138     | 9.1   | 10.2  | 15.4# |

