

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE120519\  
 Data File : BE100790.D  
 Acq On : 5 Dec 2019 15:49  
 Operator : JU  
 Sample : K6053-02  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-084-SW178-112519-1

Manual Integrations  
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 12/6/2019 3:02:35 PM

Quant Time: Dec 05 18:06:18 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE120419.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 04 17:18:11 2019

Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.76  | 152  | 6613     | 0.40   | ng    | -0.01    |
| 7) Naphthalene-d8              | 10.54 | 136  | 29380    | 0.40   | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.40 | 164  | 17691    | 0.40   | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.12 | 188  | 42615    | 0.40   | ng    | -0.01    |
| 27) Chrysene-d12               | 21.31 | 240  | 46033    | 0.40   | ng    | 0.00     |
| 34) Perylene-d12               | 23.76 | 264  | 55797    | 0.40   | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 4) 2-Fluorophenol              | 5.37  | 112  | 6772     | 0.43   | ng    | 0.00     |
| 5) Phenol-d6                   | 6.93  | 99   | 11201    | 0.47   | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 8.90  | 82   | 6902     | 0.49   | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 12.14 | 152  | 13184    | 0.31   | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 15.88 | 330  | 1712     | 0.87   | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 13.03 | 172  | 18626    | 0.27   | ng    | 0.00     |
| 25) Fluoranthene-d10           | 19.16 | 212  | 151105   | 0.30   | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.77 | 244  | 30574    | 0.28   | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 9) Naphthalene                 | 10.59 | 128  | 97116    | 0.311  | ng    | 99       |
| 12) 2-Methylnaphthalene        | 12.21 | 142  | 11545    | 0.237  | ng    | 98       |
| 16) Acenaphthylene             | 14.11 | 152  | 101174   | 1.382  | ng    | 99       |
| 17) Acenaphthene               | 14.46 | 154  | 7119     | 0.141  | ng    | 98       |
| 18) Fluorene                   | 15.43 | 166  | 26134m   | 0.402  | ng    |          |
| 22) Pentachlorophenol          | 16.79 | 266  | 156      | 0.099  | ng    | 91       |
| 23) Phenanthrene               | 17.17 | 178  | 668100   | 5.176  | ng    | 99       |
| 24) Anthracene                 | 17.25 | 178  | 129325   | 1.198  | ng    | 97       |
| 26) Fluoranthene               | 19.19 | 202  | 1470813  | 9.547  | ng    | 98       |
| 28) Pvrene                     | 19.55 | 202  | 1597700  | 10.682 | ng    | 95       |
| 30) Benzo(a)anthracene         | 21.29 | 228  | 1008308  | 7.431  | ng    | # 91     |
| 31) Chrysene                   | 21.34 | 228  | 885206   | 5.552  | ng    | 96       |
| 32) Bis(2-ethylhexyl)phthalate | 21.24 | 149  | 45178    | 0.475  | ng    | 99       |
| 33) Indeno(1,2,3-cd)pyrene     | 26.33 | 276  | 497235   | 3.580  | ng    | 97       |
| 35) Benzo(b)fluoranthene       | 23.01 | 252  | 1069897  | 7.004  | ng    | 98       |
| 36) Benzo(k)fluoranthene       | 23.06 | 252  | 370363m  | 2.162  | ng    |          |
| 37) Benzo(a)pvrene             | 23.65 | 252  | 830858   | 6.282  | ng    | 98       |
| 38) Dibenzo(a,h)anthracene     | 26.35 | 278  | 134468   | 1.022  | ng    | # 92     |
| 39) Benzo(g,h,i)perylene       | 27.12 | 276  | 503128   | 3.576  | ng    | 99       |

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

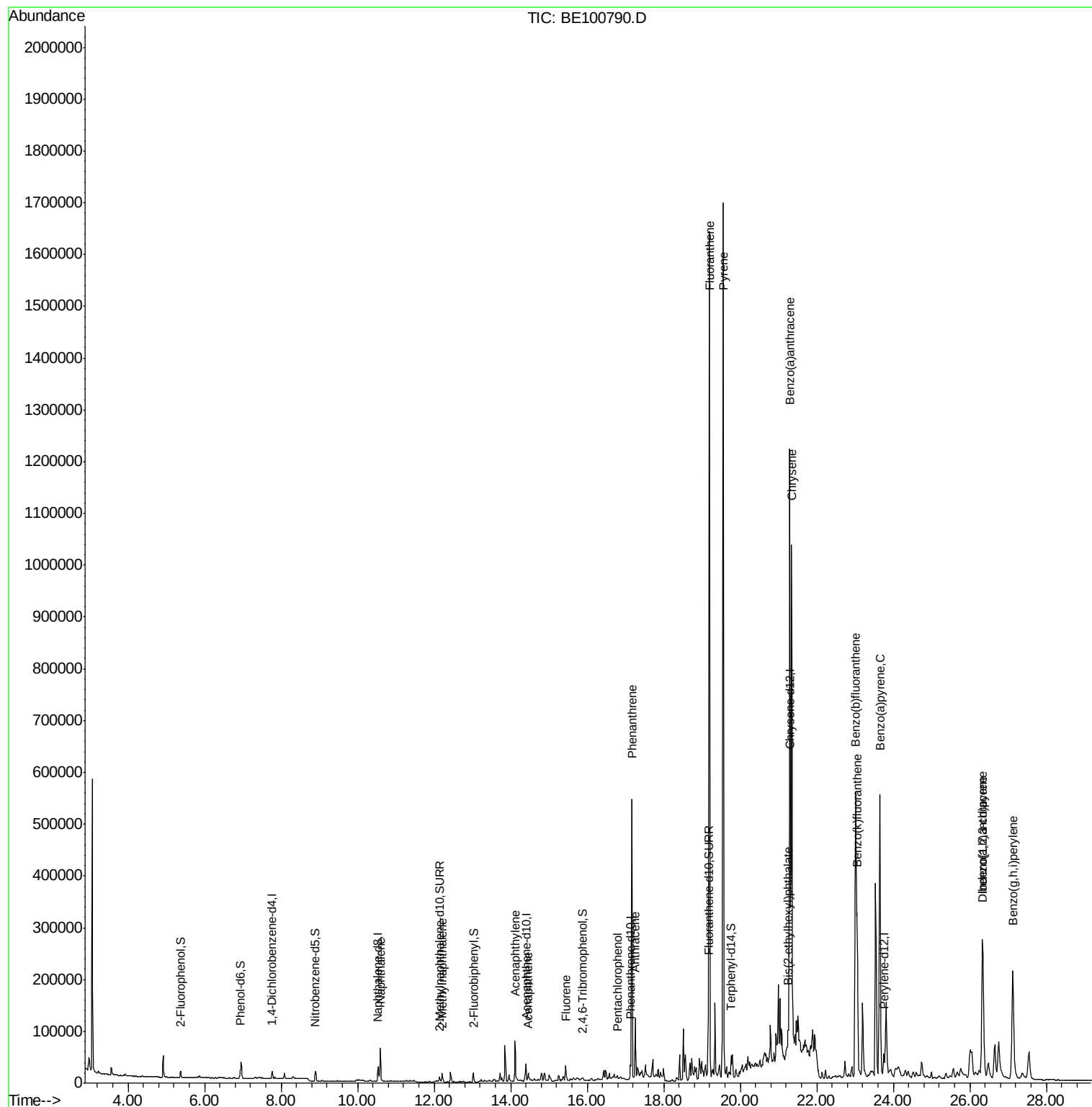
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE120519\  
Data File : BE100790.D  
Acq On : 5 Dec 2019 15:49  
Operator : JU  
Sample : K6053-02  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

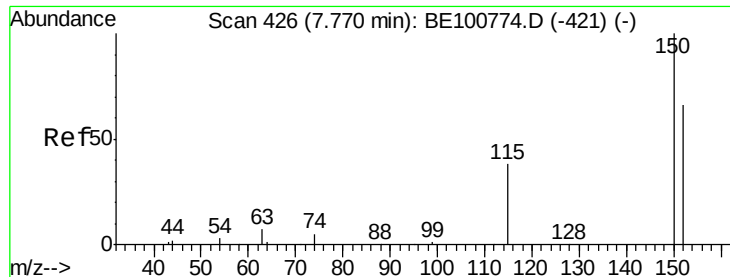
Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW178-112519-1

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Quant Time: Dec 05 18:06:18 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE120419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 04 17:18:11 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.76 min Scan# 425

Delta R.T. -0.01 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

Instrument :

BNA\_E

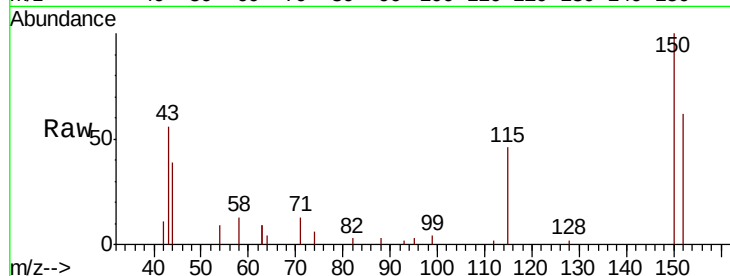
ClientSampleId :

EXT-084-SW178-112519-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.1 | 120.6 | 181.0 |
| 115     | 74.4  | 47.4  | 71.2  |

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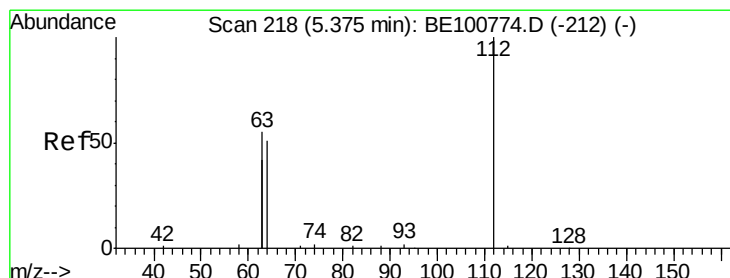
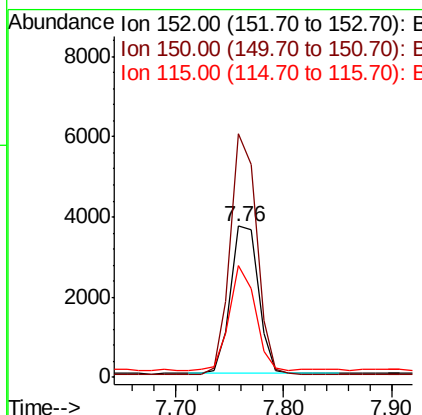
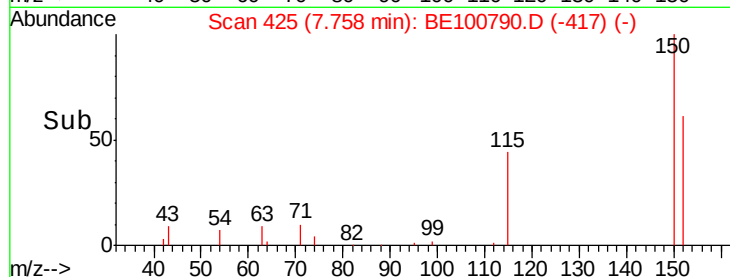


Abundance

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: 0.432 ng

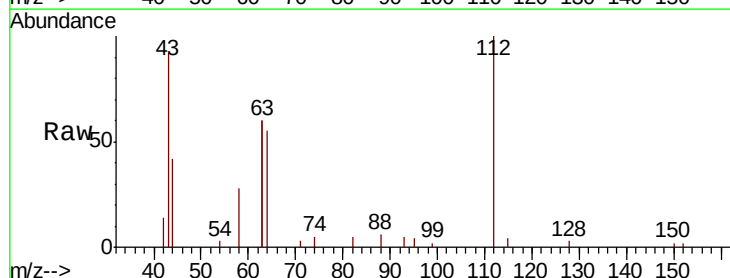
RT: 5.37 min Scan# 218

Delta R.T. -0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.1  | 54.1  | 81.1  |
| 63      | 143.2 | 113.2 | 169.8 |

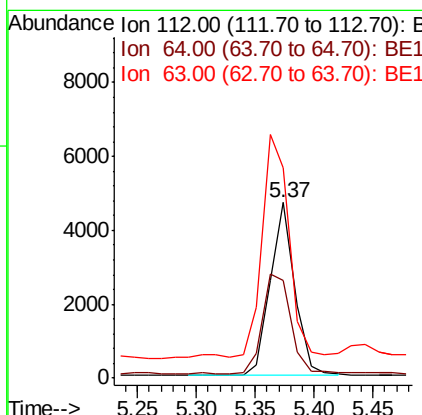
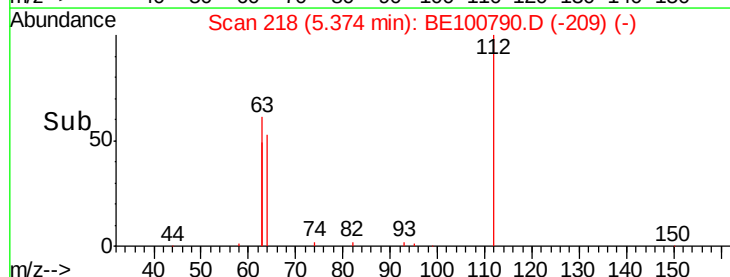


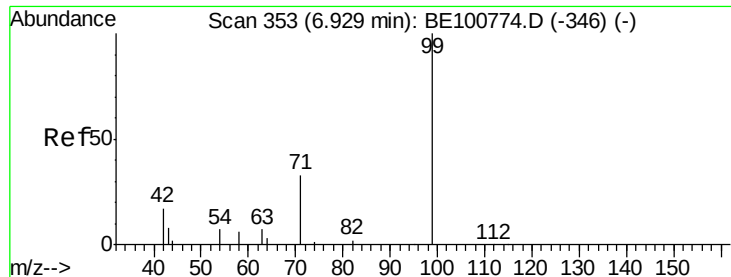
Abundance

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: 0.473 ng

RT: 6.93 min Scan# 353

Delta R.T. -0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

Instrument :

BNA\_E

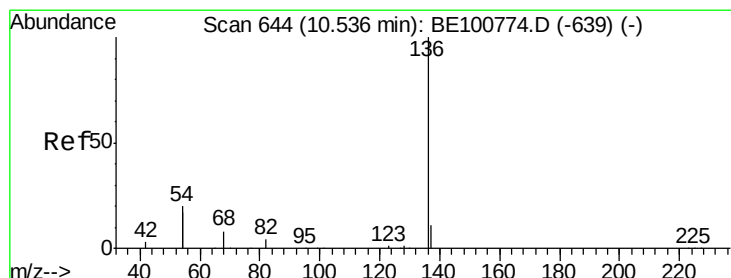
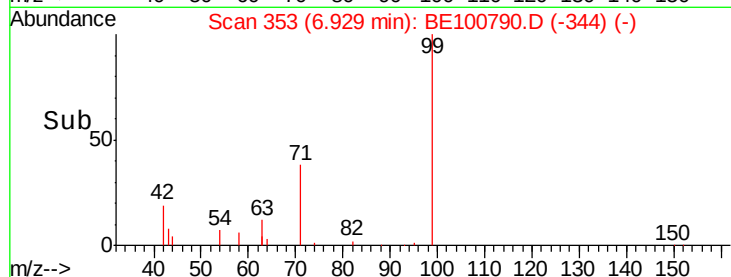
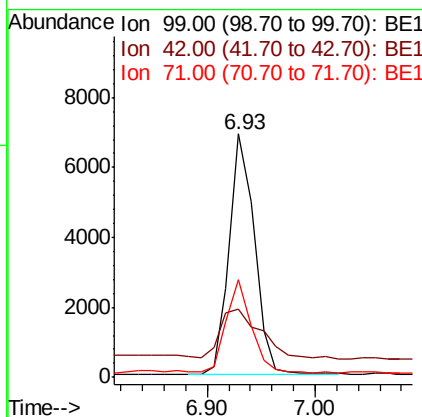
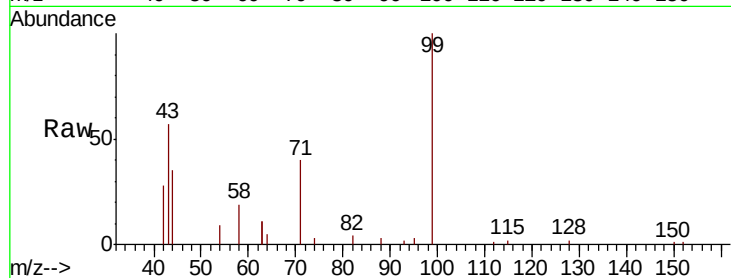
ClientSampleId :

EXT-084-SW178-112519-1

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 11201 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 34.0  | 19.1  | 28.7# |
| 71       | 37.6  | 27.7  | 41.5  |

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#7

Naphthalene-d8

Concen: 0.400 ng

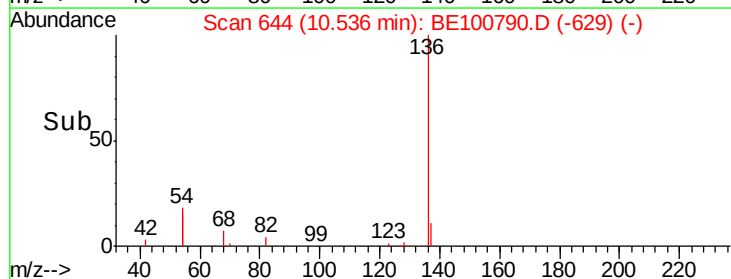
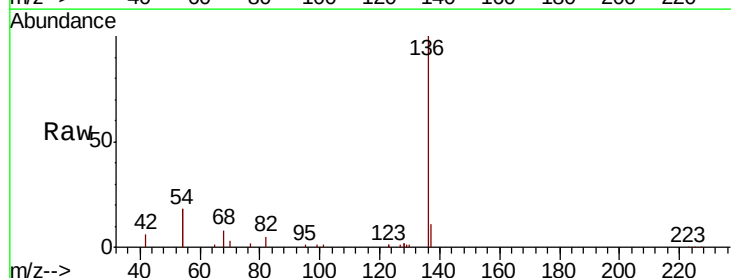
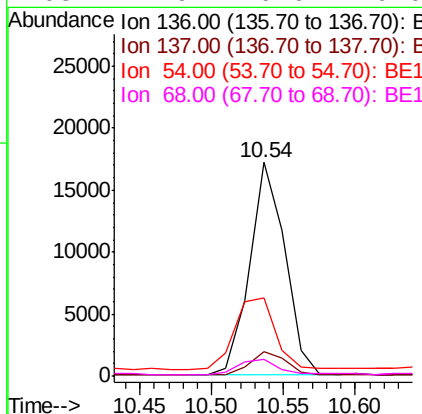
RT: 10.54 min Scan# 644

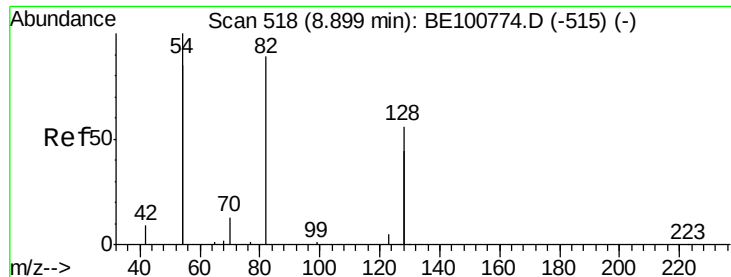
Delta R.T. -0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 29380 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.5  | 9.4   | 14.0  |
| 54       | 36.3  | 31.1  | 46.7  |
| 68       | 7.9   | 6.6   | 10.0  |





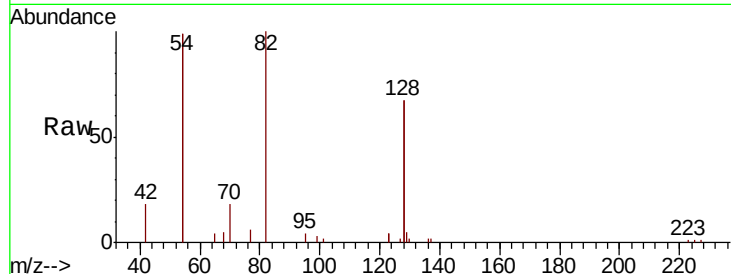
#8  
 Nitrobenzene-d5  
 Concen: 0.493 ng  
 RT: 8.90 min Scan# 518  
 Delta R.T. -0.00 min  
 Lab File: BE100790.D  
 Acq: 5 Dec 2019 15:49

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-084-SW178-112519-1

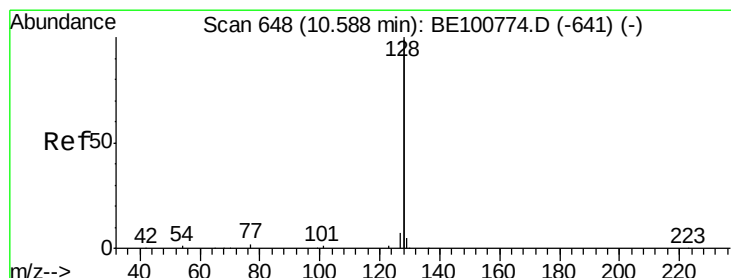
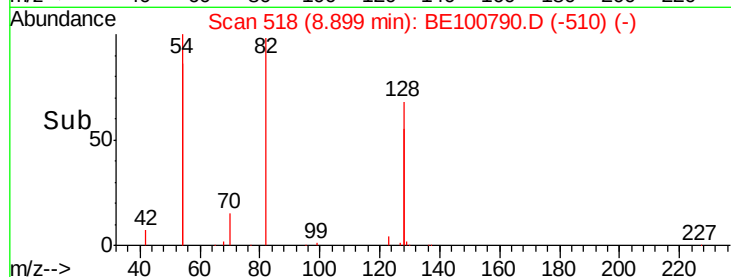
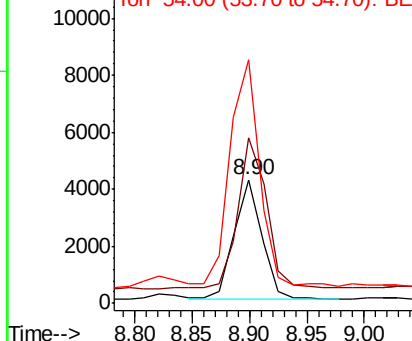
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 134.2 | 97.0  | 145.4 |
| 54      | 197.3 | 171.8 | 257.6 |

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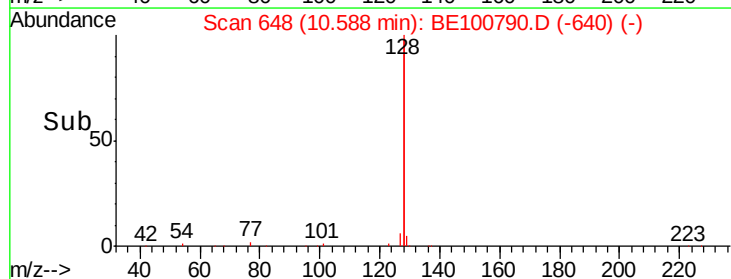
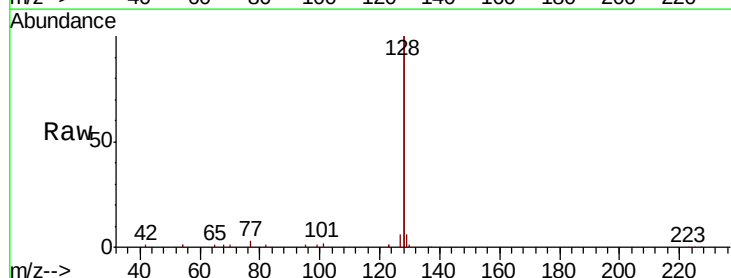
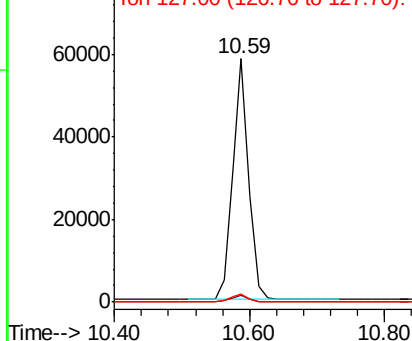
Abundance Ion 82.00 (81.70 to 82.70): BE1  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BE1

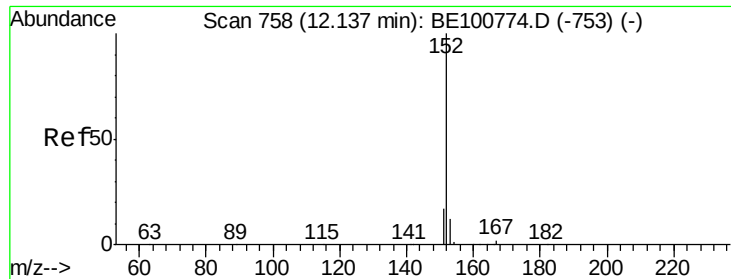


#9  
 Naphthalene  
 Concen: 0.311 ng  
 RT: 10.59 min Scan# 648  
 Delta R.T. -0.00 min  
 Lab File: BE100790.D  
 Acq: 5 Dec 2019 15:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 2.9   | 2.2   | 3.4   |
| 127     | 3.2   | 2.7   | 4.1   |

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





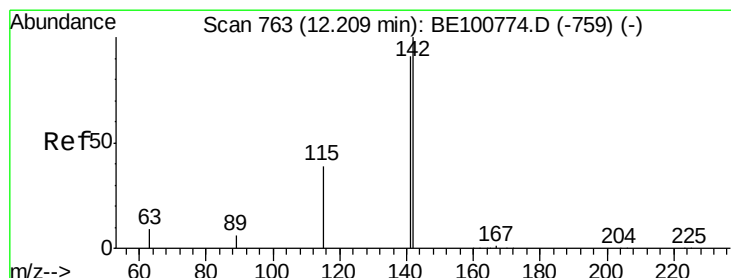
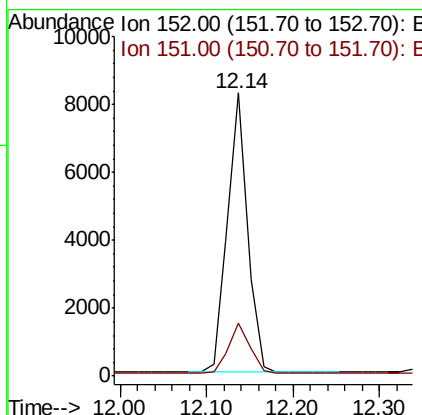
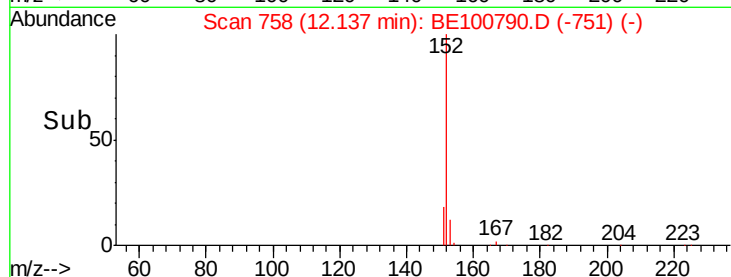
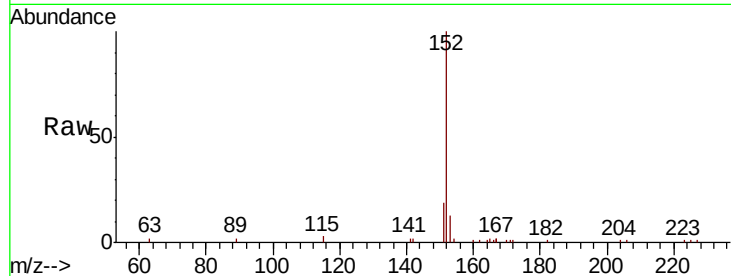
#11  
2-Methylnaphthalene-d10  
Concen: 0.310 ng  
RT: 12.14 min Scan# 758  
Delta R.T. 0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW178-112519-1

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 152     | 100  |       | 13184 |       |       |
| 151     | 19.3 | 15.8  | 23.8  |       |       |

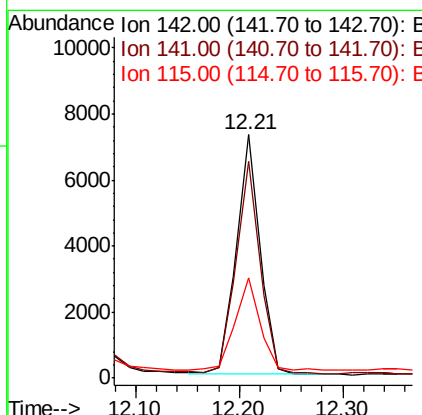
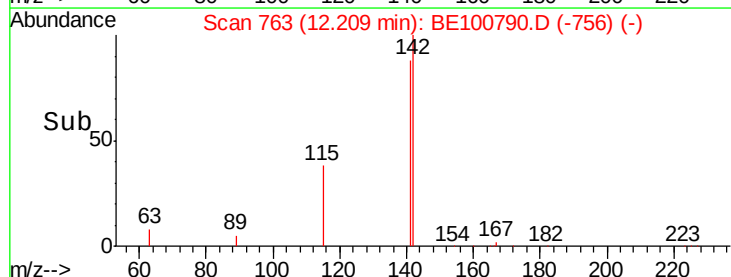
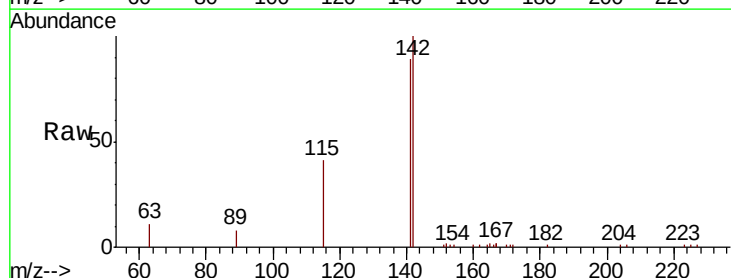
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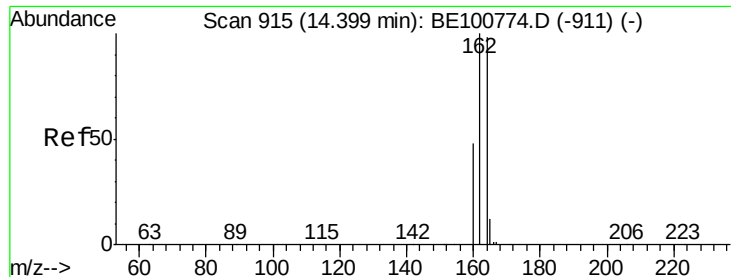
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#12  
2-Methylnaphthalene  
Concen: 0.237 ng  
RT: 12.21 min Scan# 763  
Delta R.T. 0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 142     | 100  |       | 11545 |       |       |
| 141     | 89.0 | 72.6  | 108.8 |       |       |
| 115     | 41.4 | 31.8  | 47.6  |       |       |





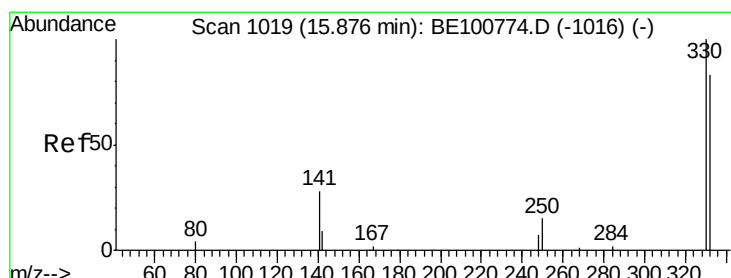
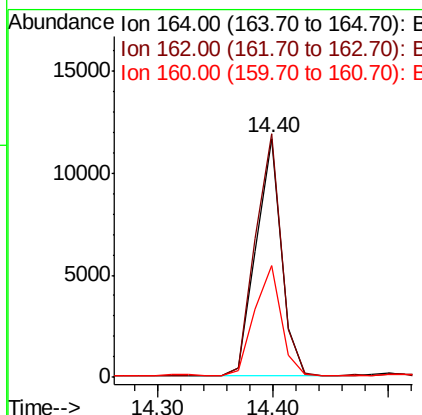
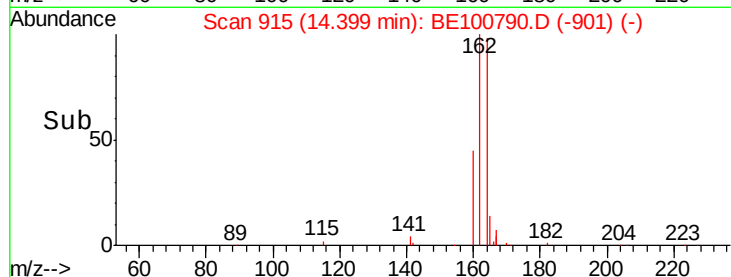
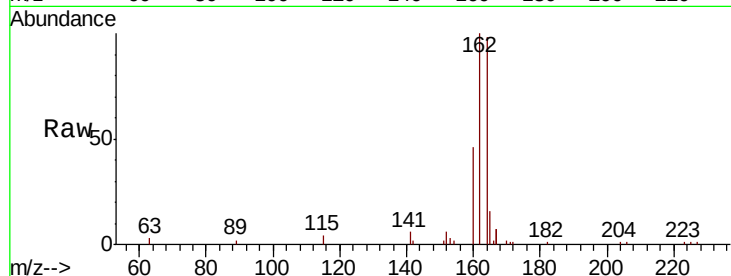
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.40 min Scan# 915  
Delta R.T. 0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW178-112519-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.9 | 81.4  | 122.0 |
| 160     | 46.8  | 39.4  | 59.0  |

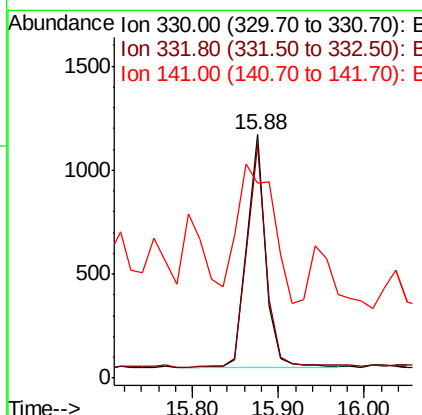
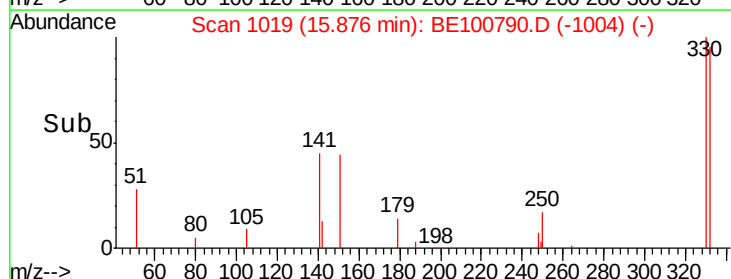
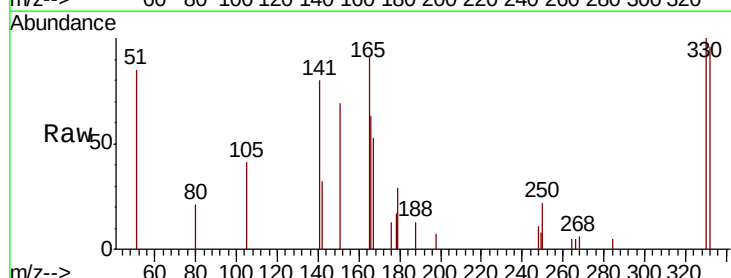
Manual Integrations  
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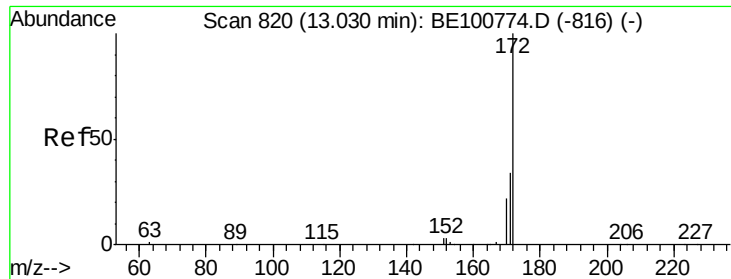
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#14  
2,4,6-Tribromophenol  
Concen: 0.870 ng  
RT: 15.88 min Scan# 1019  
Delta R.T. -0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.4  | 69.4  | 104.2 |
| 141     | 111.4 | 51.1  | 76.7# |





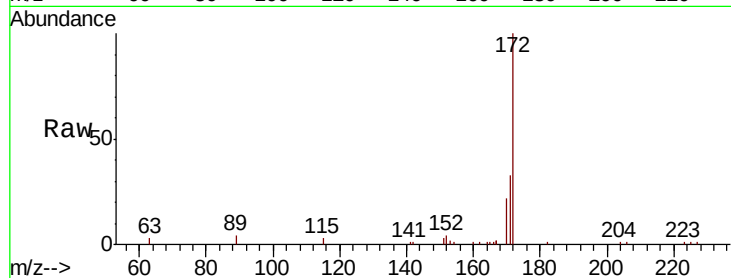
#15  
2-Fluorobiphenyl  
Concen: 0.265 ng  
RT: 13.03 min Scan# 820  
Delta R.T. 0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW178-112519-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 32.6  | 27.2  | 40.8  |
| 170     | 22.2  | 18.0  | 27.0  |

Manual Integrations  
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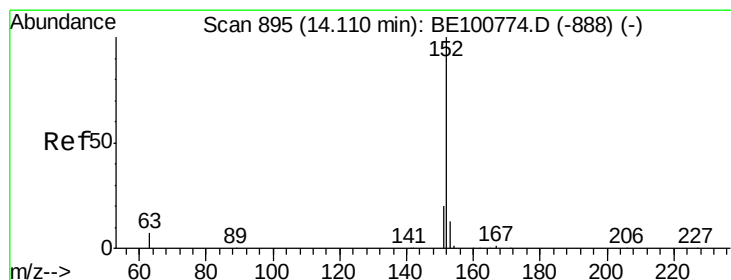
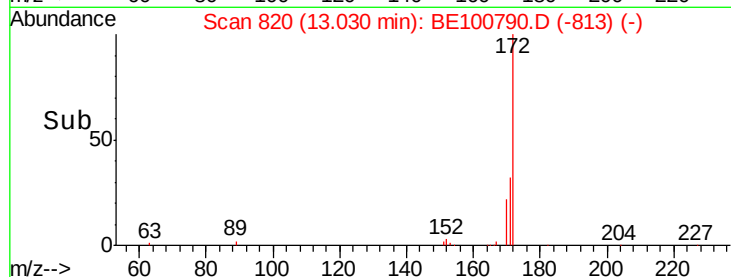
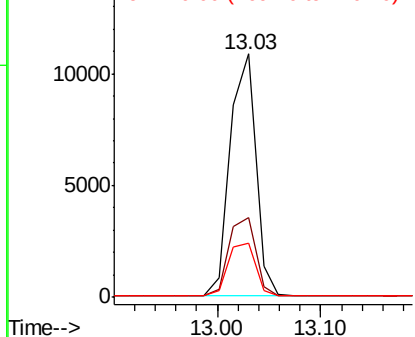


Abundance

Ion 172.00 (171.70 to 172.70): E

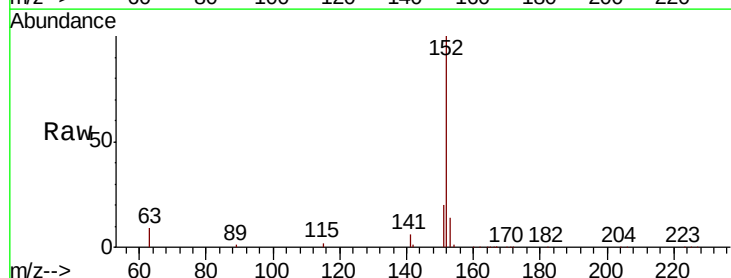
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16  
Acenaphthylene  
Concen: 1.382 ng  
RT: 14.11 min Scan# 895  
Delta R.T. 0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.7  | 15.8  | 23.6  |
| 153     | 13.9  | 10.4  | 15.6  |

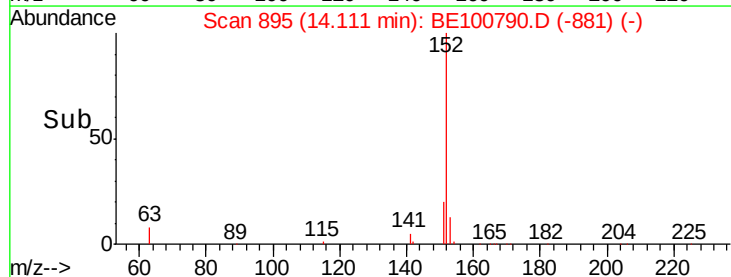
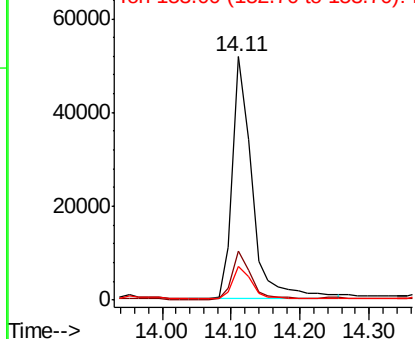


Abundance

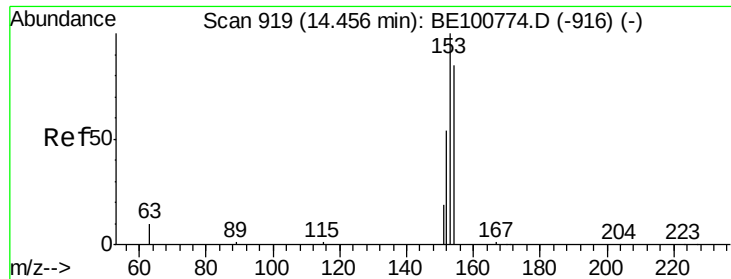
Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E







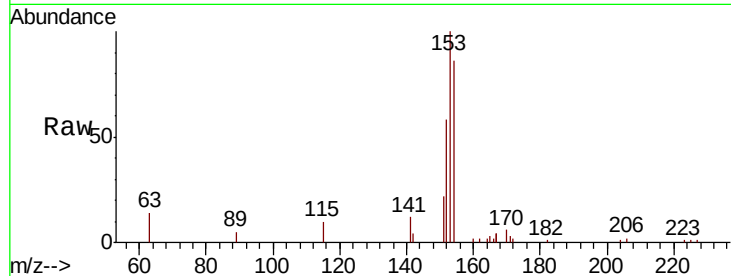
#17  
Acenaphthene  
Concen: 0.141 ng  
RT: 14.46 min Scan# 919  
Delta R.T. 0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW178-112519-1

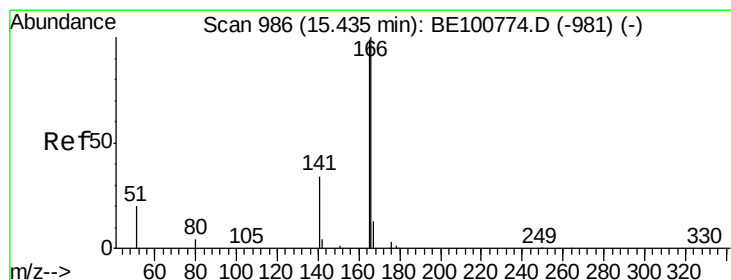
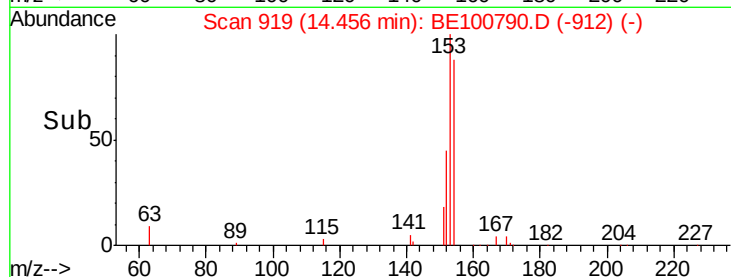
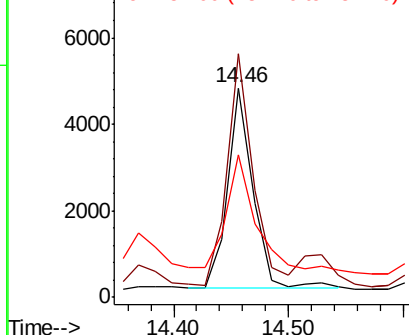
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 116.4 | 92.2  | 138.2 |
| 152     | 64.3  | 49.1  | 73.7  |

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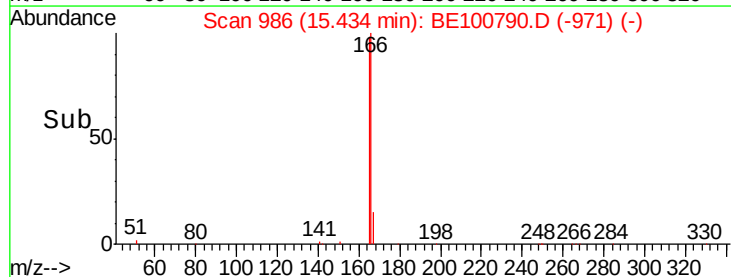
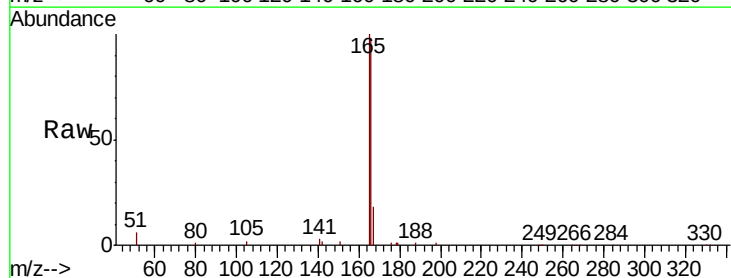
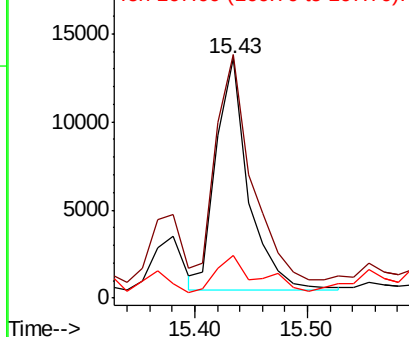
Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

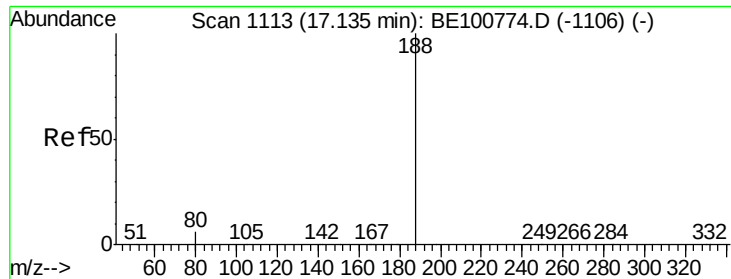


#18  
Fluorene  
Concen: 0.402 ng m  
RT: 15.43 min Scan# 986  
Delta R.T. -0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 106.4 | 80.5  | 120.7 |
| 167     | 19.7  | 10.7  | 16.1  |

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





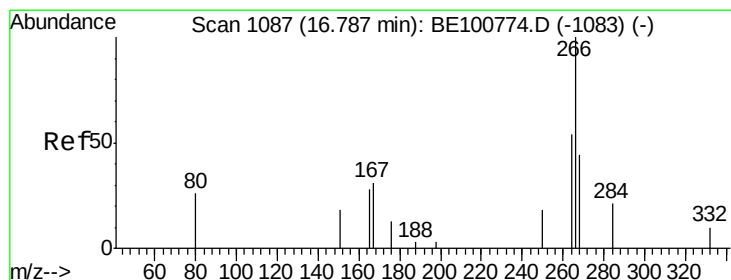
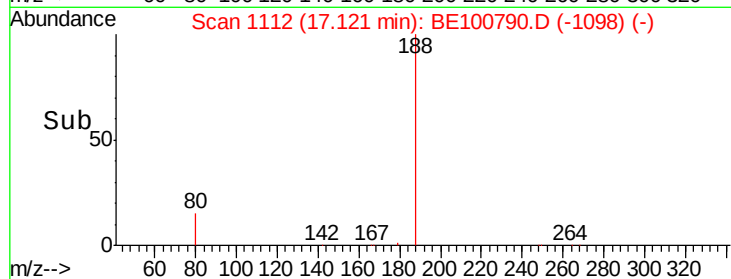
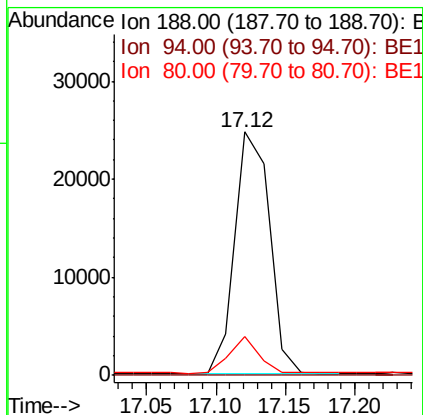
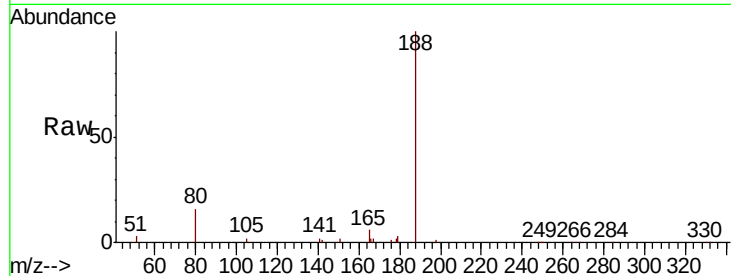
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.12 min Scan# 1112  
Delta R.T. -0.01 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW178-112519-1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 0.0   | 0.0        | 0.0   |
| 80      | 15.8  | 5.2        | 7.8   |

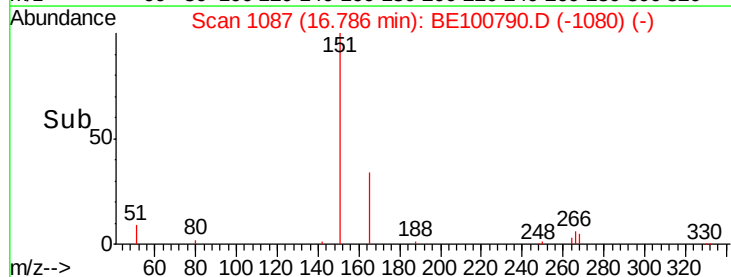
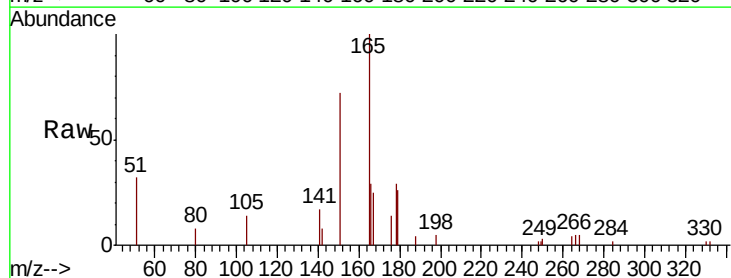
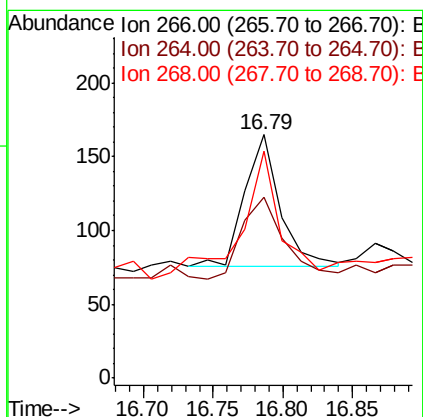
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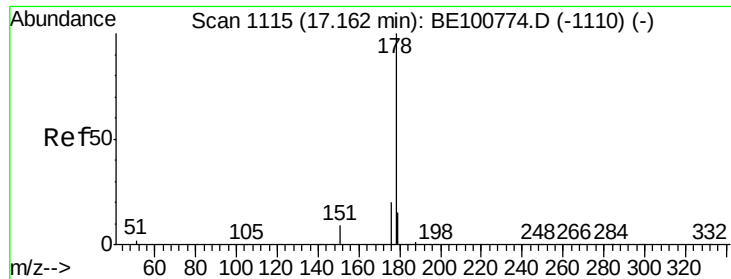
mohammad  
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#22  
Pentachlorophenol  
Concen: 0.099 ng  
RT: 16.79 min Scan# 1087  
Delta R.T. -0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 266     | 100   |            |       |
| 264     | 74.5  | 63.4       | 95.0  |
| 268     | 93.3  | 65.8       | 98.8  |





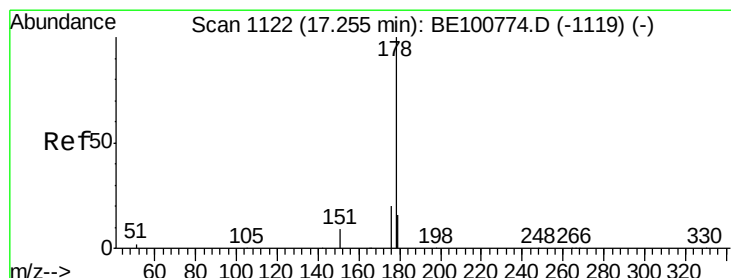
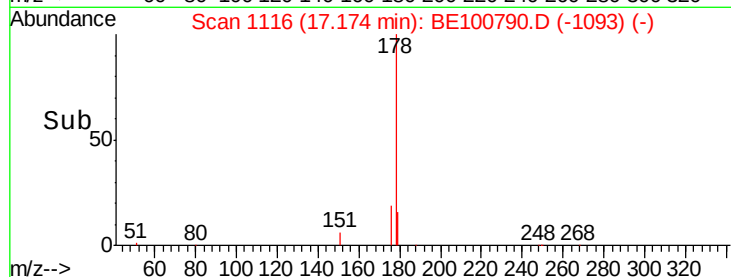
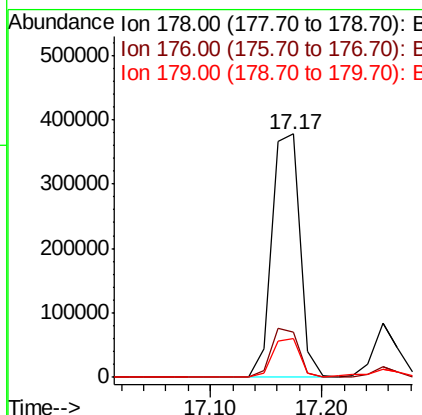
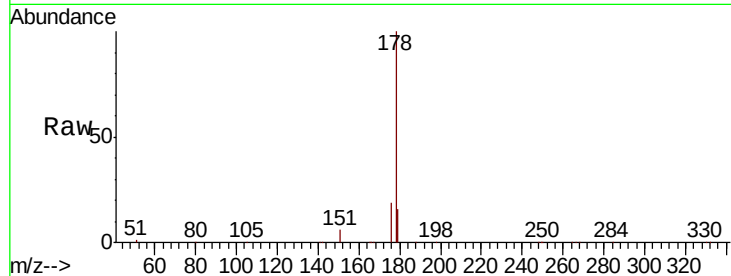
#23  
Phenanthrene  
Concen: 5.176 ng  
RT: 17.17 min Scan# 1116  
Delta R.T. 0.01 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW178-112519-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 15.5  | 23.3  |
| 179     | 15.9  | 12.3  | 18.5  |

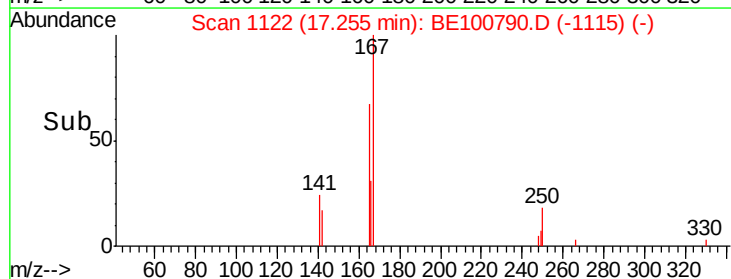
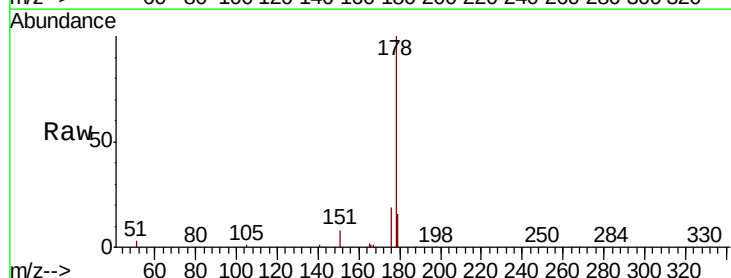
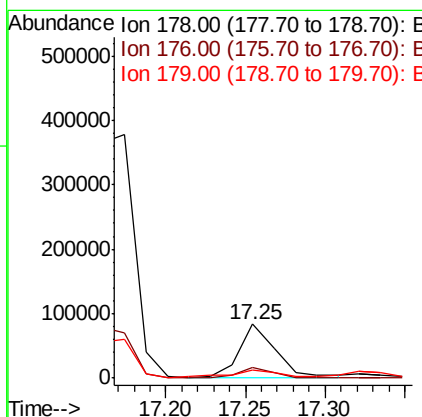
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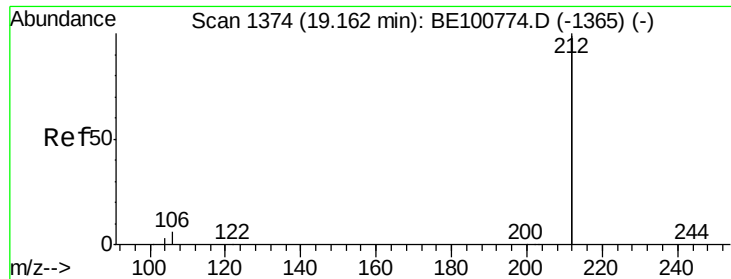
mohammad  
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#24  
Anthracene  
Concen: 1.198 ng  
RT: 17.25 min Scan# 1122  
Delta R.T. -0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.3  | 15.4  | 23.2  |
| 179     | 14.2  | 12.7  | 19.1  |





#25

Fluoranthene-d10

Concen: 0.300 ng

RT: 19.16 min Scan# 1374

Delta R.T. 0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

Instrument :

BNA\_E

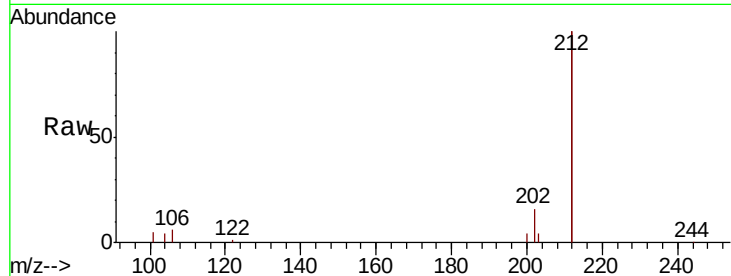
ClientSampleId :

EXT-084-SW178-112519-1

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 212     | 100   | 151105 |       |       |
| 106     | 3.1   | 2.6    | 3.8   |       |
| 104     | 2.3   | 1.4    | 2.2   |       |

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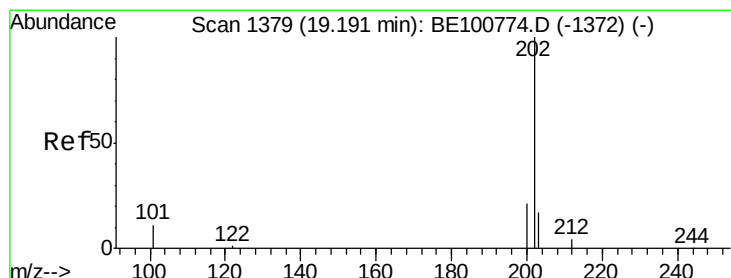
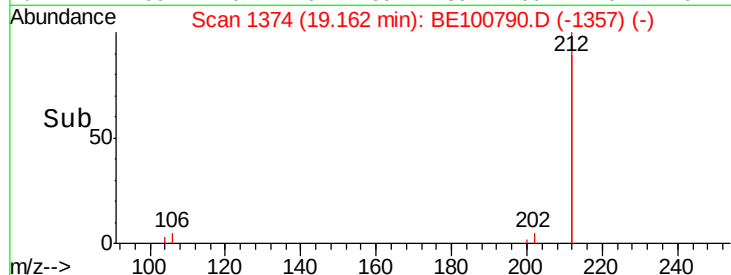
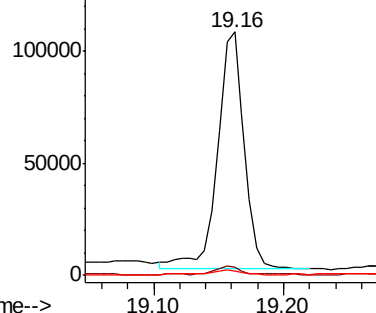


Abundance

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: 9.547 ng

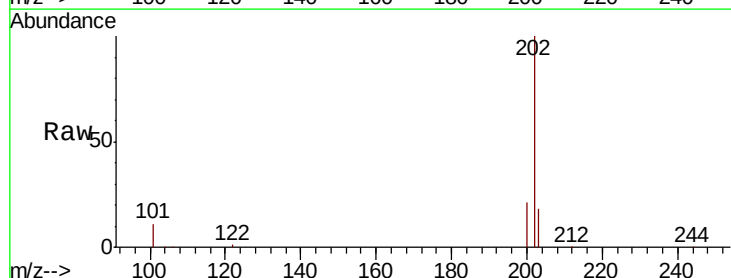
RT: 19.19 min Scan# 1379

Delta R.T. 0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 202     | 100   | 1470813 |       |       |
| 101     | 12.1  | 9.1     | 13.7  |       |
| 203     | 18.1  | 13.8    | 20.6  |       |

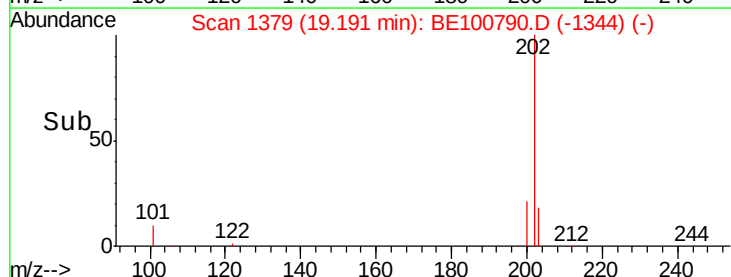
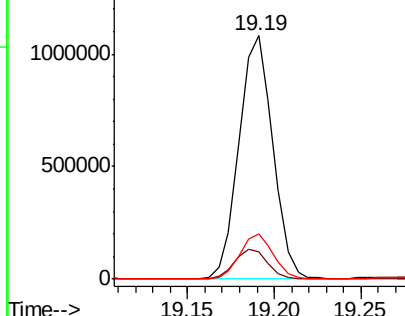


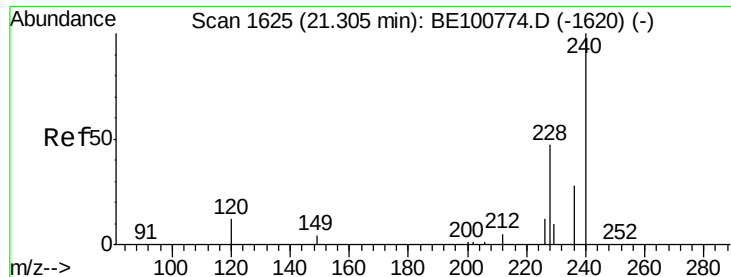
Abundance

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: 21.31 min Scan# 1624

Delta R.T. -0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

Instrument :

BNA\_E

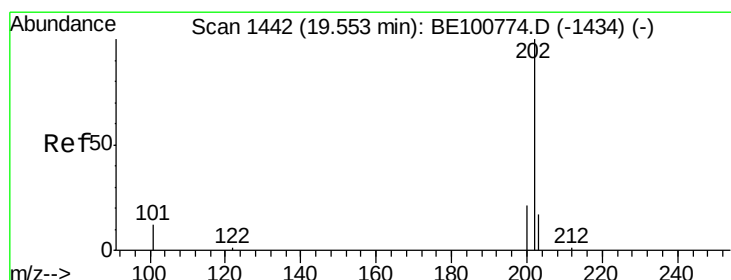
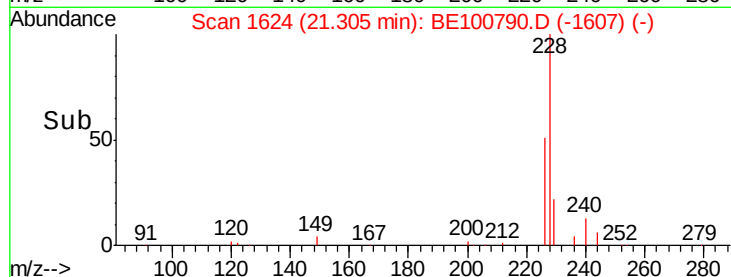
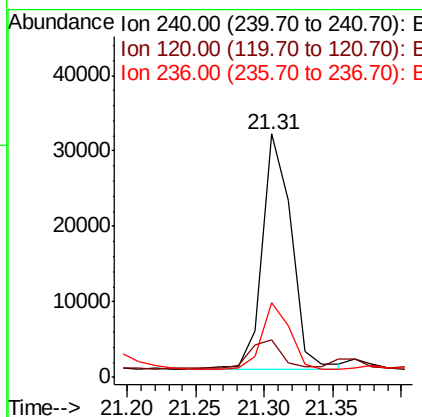
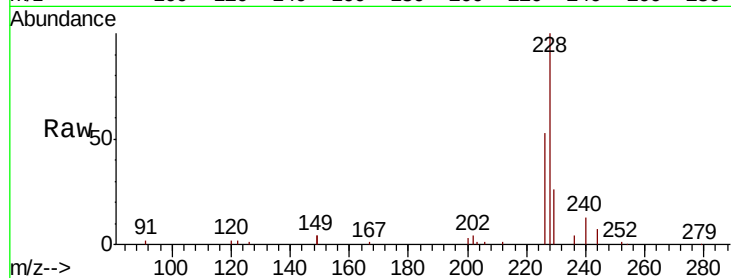
ClientSampleId :

EXT-084-SW178-112519-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 15.2  | 10.2  | 15.2  |
| 236     | 30.9  | 22.3  | 33.5  |

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#28

Pyrene

Concen: 10.682 ng

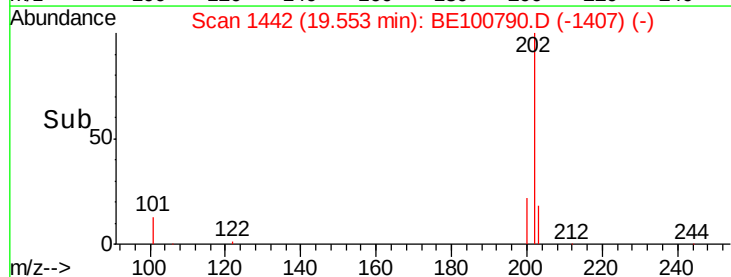
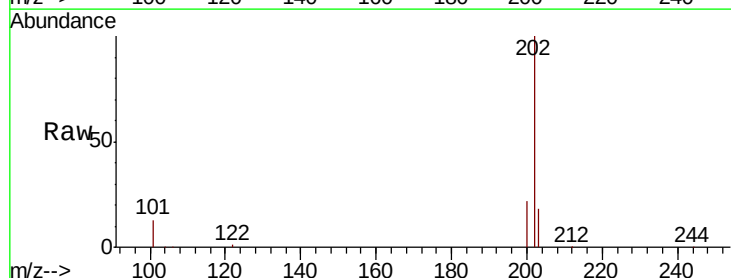
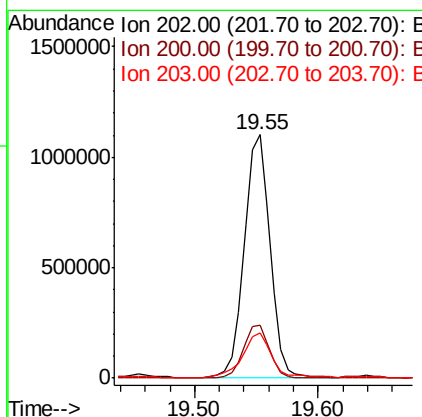
RT: 19.55 min Scan# 1442

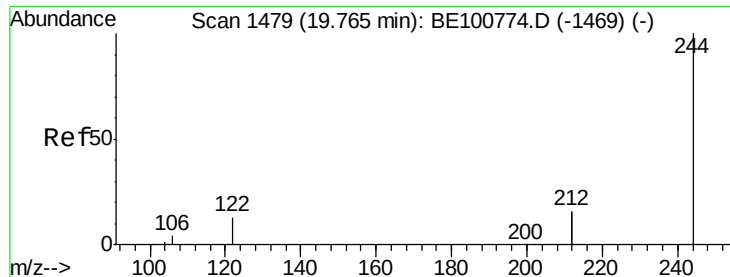
Delta R.T. 0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.0  | 17.0  | 25.4  |
| 203     | 20.8  | 13.9  | 20.9  |





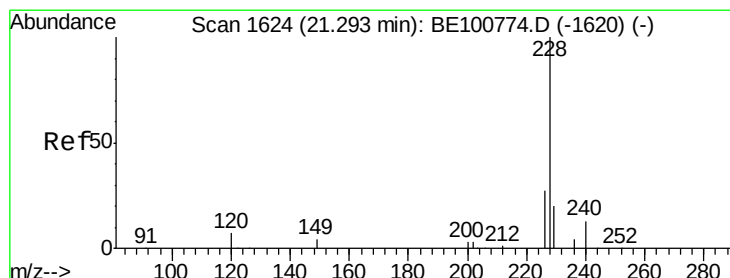
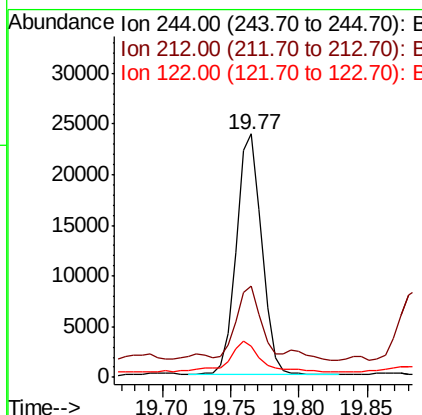
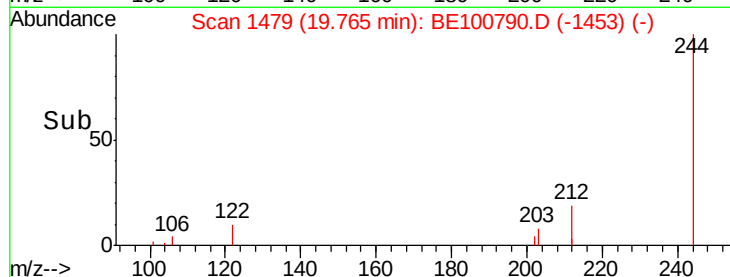
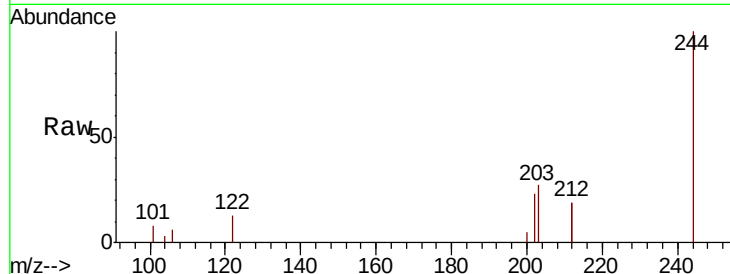
#29  
 Terphenyl-d14  
 Concen: 0.277 ng  
 RT: 19.77 min Scan# 1479  
 Delta R.T. 0.00 min  
 Lab File: BE100790.D  
 Acq: 5 Dec 2019 15:49

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-084-SW178-112519-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 37.4  | 26.2  | 39.4  |
| 122     | 12.9  | 10.2  | 15.4  |

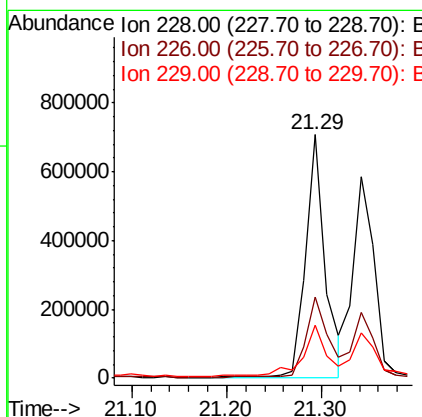
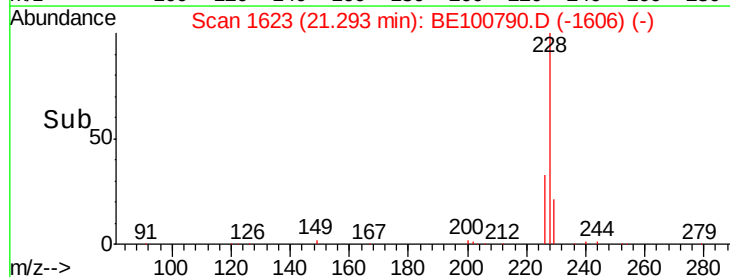
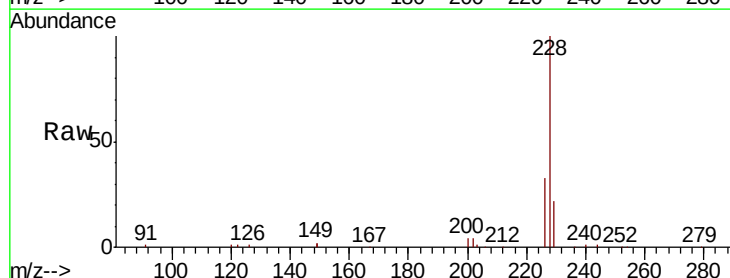
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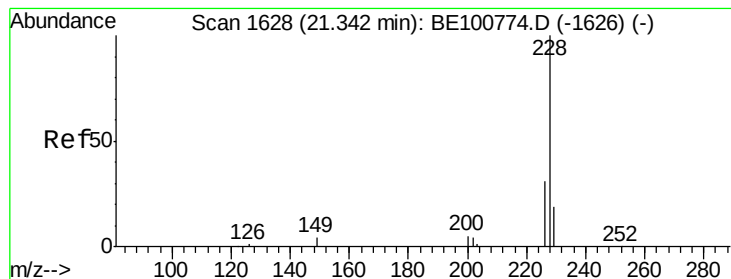
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#30  
 Benzo(a)anthracene  
 Concen: 7.431 ng  
 RT: 21.29 min Scan# 1623  
 Delta R.T. -0.00 min  
 Lab File: BE100790.D  
 Acq: 5 Dec 2019 15:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.5  | 21.5  | 32.3# |
| 229     | 21.6  | 16.0  | 24.0  |





#31

Chrysene

Concen: 5.552 ng

RT: 21.34 min Scan# 1627

Delta R.T. -0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

Instrument :

BNA\_E

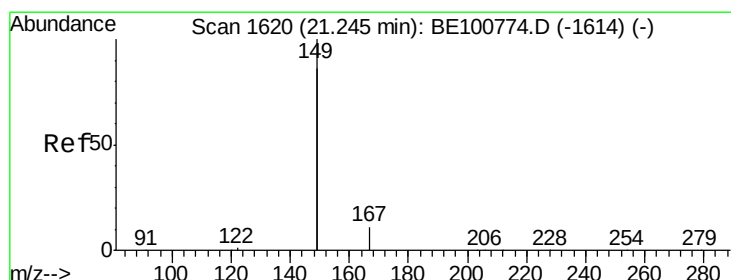
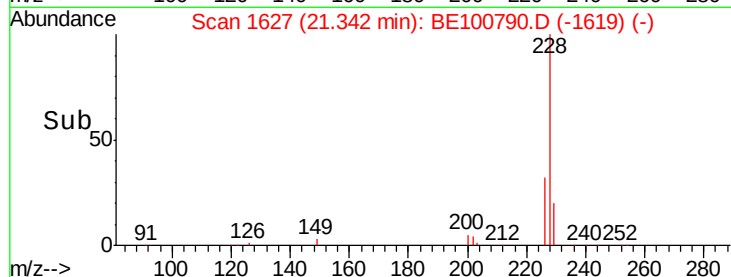
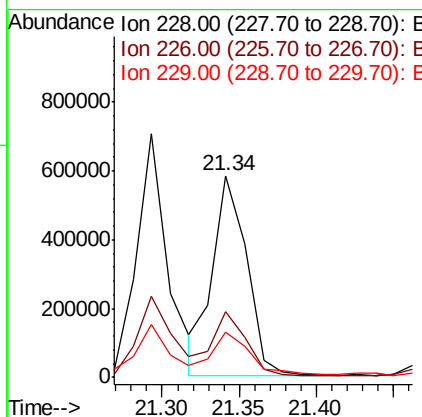
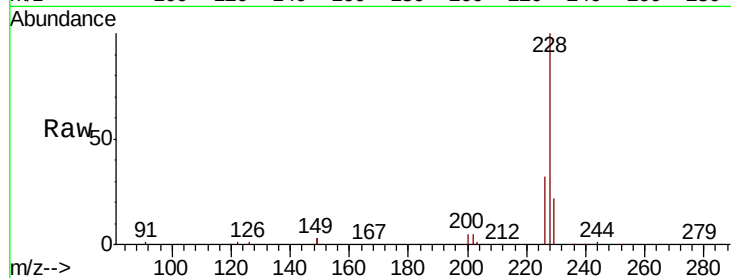
ClientSampleId :

EXT-084-SW178-112519-1

|             |       |        |
|-------------|-------|--------|
| Tot Ion:228 | Resp: | 885206 |
| Ion Ratio   | Lower | Upper  |
| 228 100     |       |        |
| 226 32.3    | 25.0  | 37.4   |
| 229 22.4    | 15.4  | 23.2   |

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.475 ng

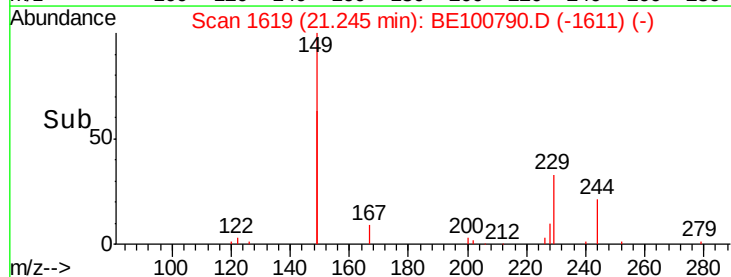
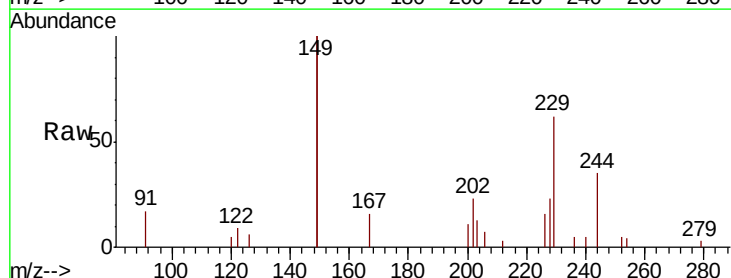
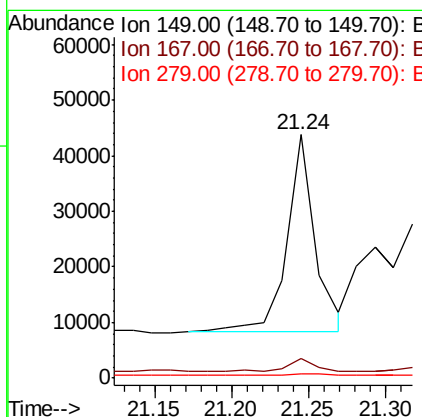
RT: 21.24 min Scan# 1619

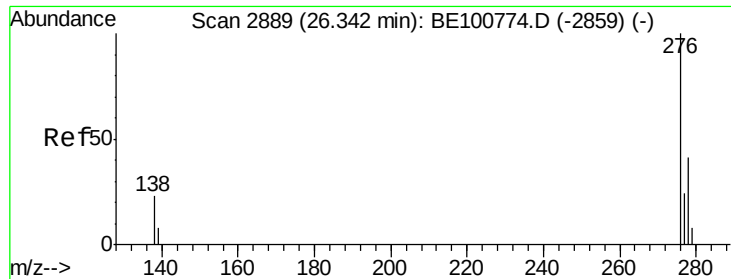
Delta R.T. 0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:149 | Resp: | 45178 |
| Ion Ratio   | Lower | Upper |
| 149 100     |       |       |
| 167 6.0     | 5.0   | 7.6   |
| 279 0.9     | 0.7   | 1.1   |





#33

Indeno(1,2,3-cd)pyrene

Concen: 3.580 ng

RT: 26.33 min Scan# 2885

Delta R.T. -0.01 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

Instrument :

BNA\_E

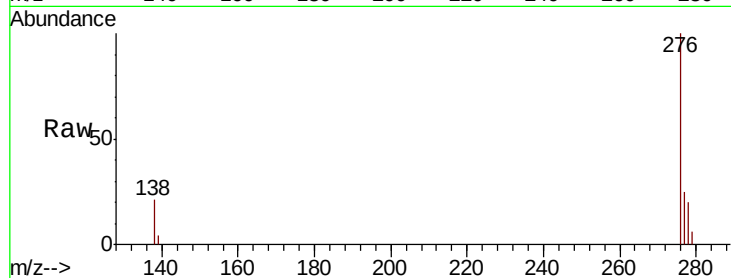
ClientSampleId :

EXT-084-SW178-112519-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 497235 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 21.1  | 19.4  | 29.0   |
| 277       | 25.0  | 19.8  | 29.6   |

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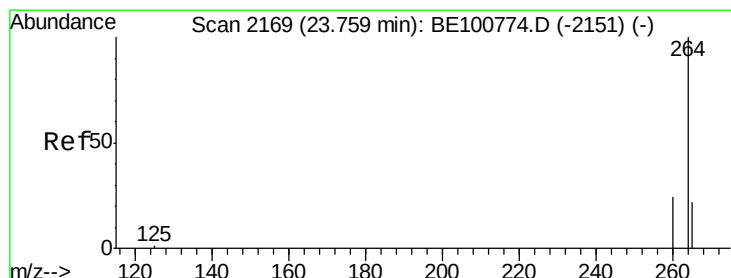
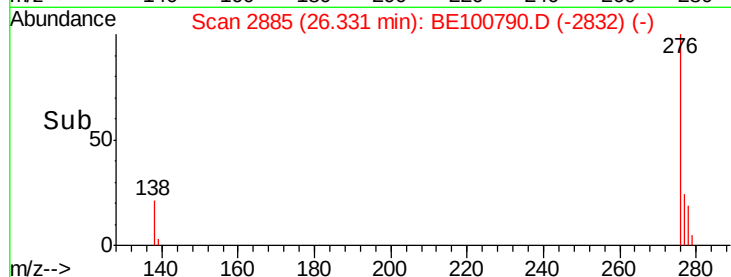
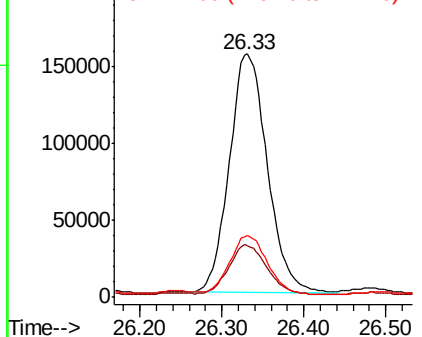


Abundance

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

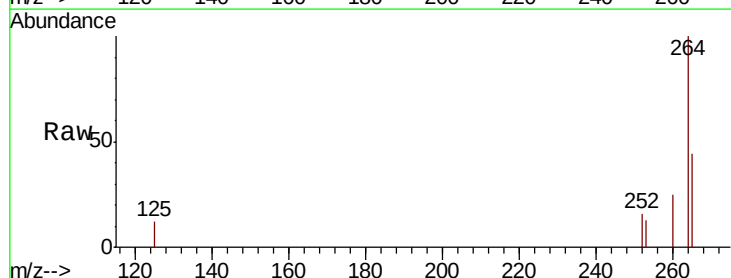
RT: 23.76 min Scan# 2167

Delta R.T. -0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 55797 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 25.3  | 19.4  | 29.2  |
| 265       | 44.1  | 21.8  | 32.8# |

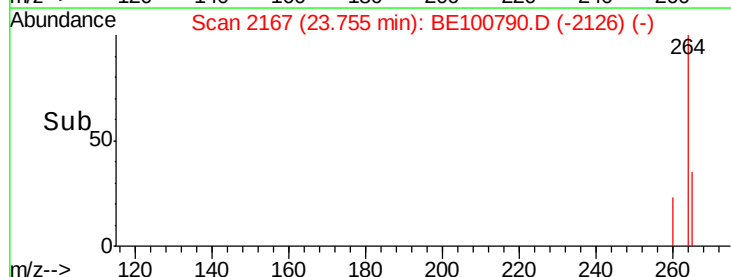
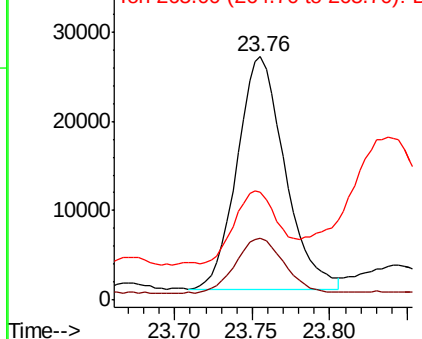


Abundance

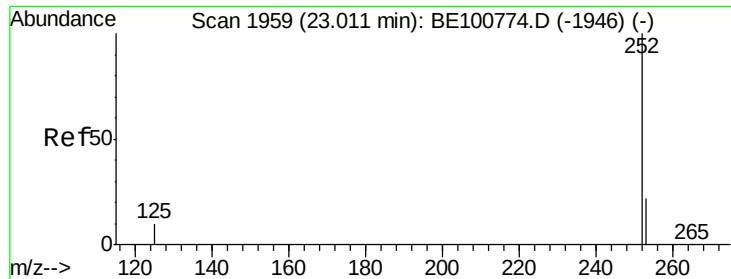
Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E







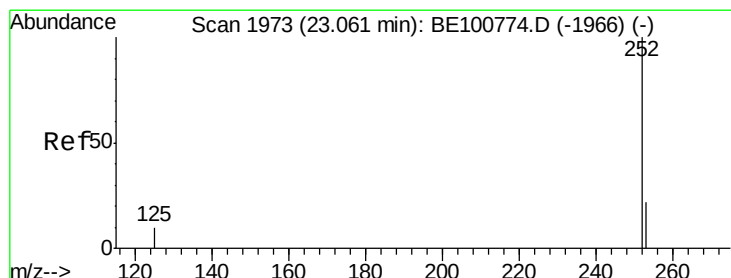
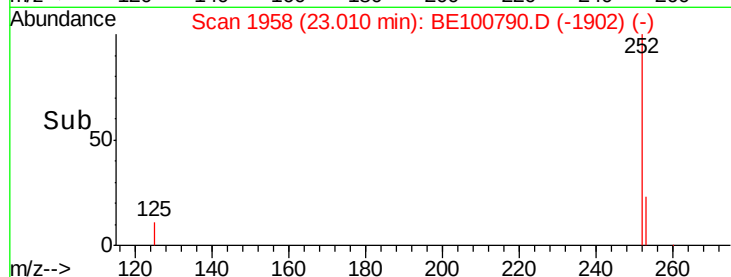
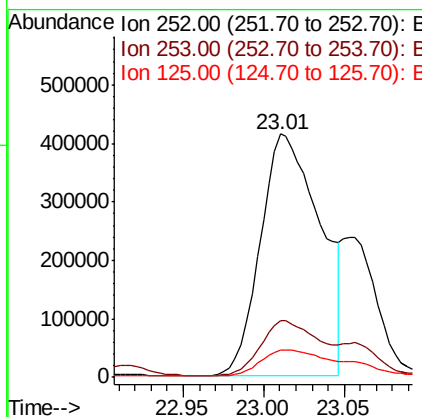
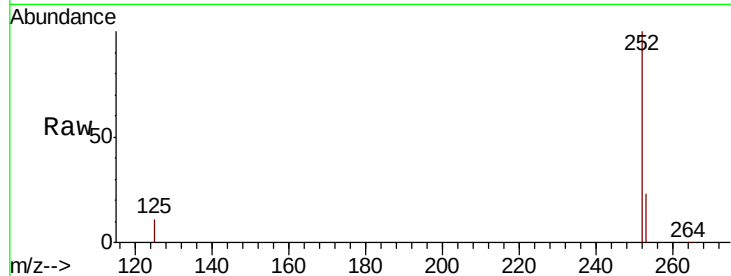
#35  
Benzo(b)fluoranthene  
Concen: 7.004 ng  
RT: 23.01 min Scan# 1958  
Delta R.T. -0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-084-SW178-112519-1

Tot Ion:252 Resp: 1069897  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.8 26.8  
125 11.0 9.0 13.4

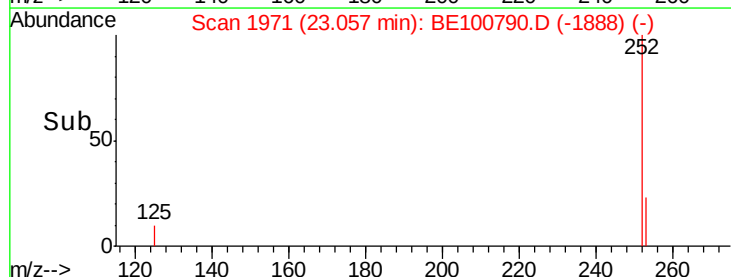
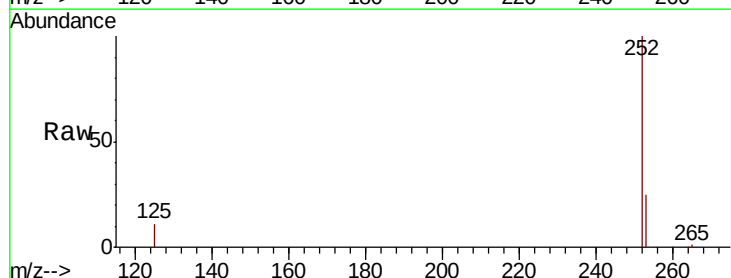
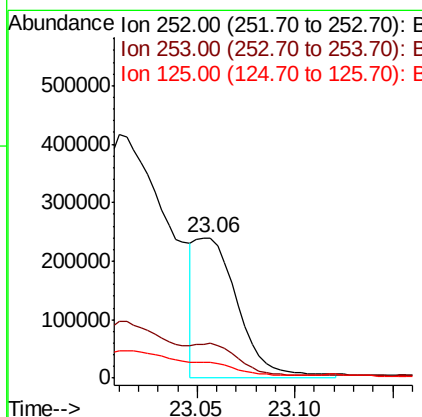
Manual Integrations  
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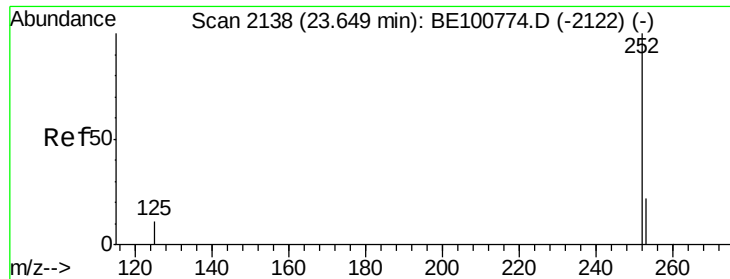
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#36  
Benzo(k)fluoranthene  
Concen: 2.162 ng m  
RT: 23.06 min Scan# 1971  
Delta R.T. -0.00 min  
Lab File: BE100790.D  
Acq: 5 Dec 2019 15:49

Tgt Ion:252 Resp: 370363  
Ion Ratio Lower Upper  
252 100  
253 24.8 17.8 26.8  
125 10.9 8.7 13.1





#37

Benzo(a)pyrene

Concen: 6.282 ng

RT: 23.65 min Scan# 2137

Delta R.T. -0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

Instrument :

BNA\_E

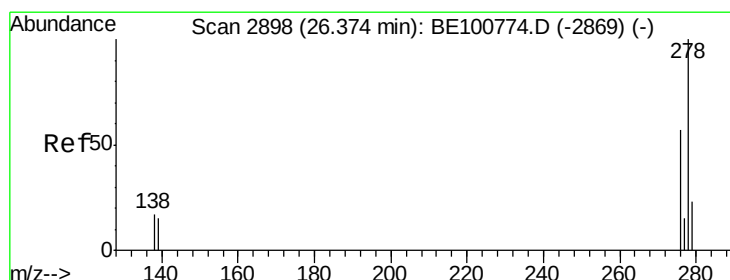
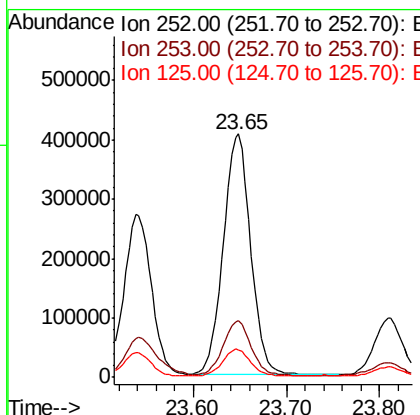
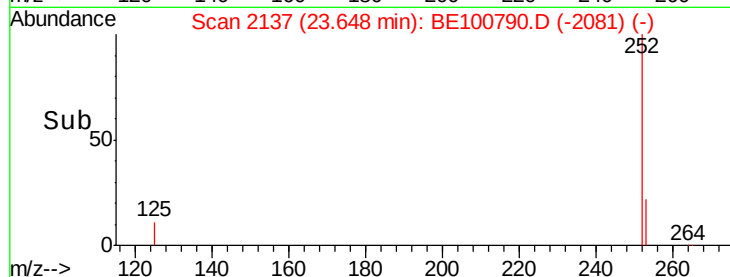
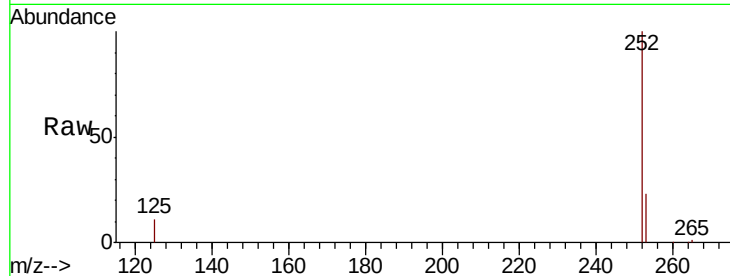
ClientSampleId :

EXT-084-SW178-112519-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 830858 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.3  | 18.2  | 27.4   |
| 125       | 11.4  | 10.4  | 15.6   |

Manual Integrations  
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#38

Dibenzo(a,h)anthracene

Concen: 1.022 ng

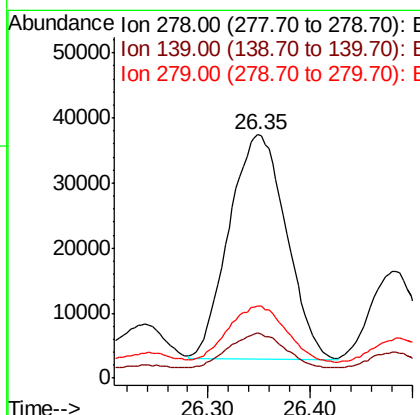
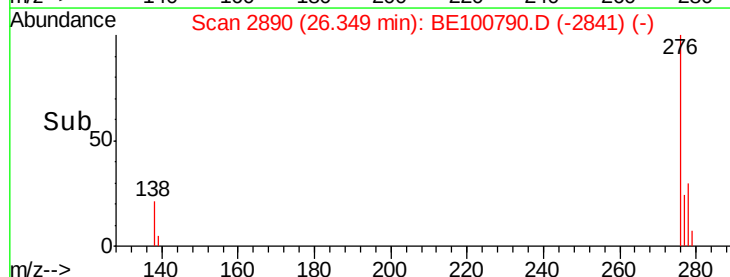
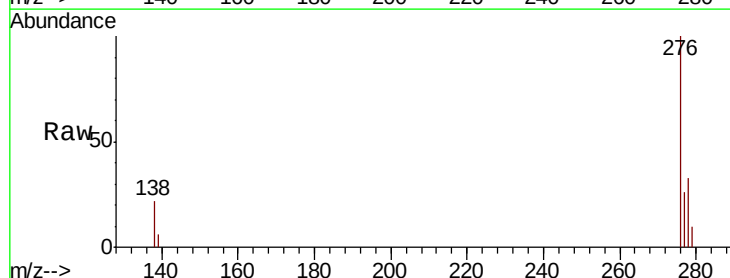
RT: 26.35 min Scan# 2890

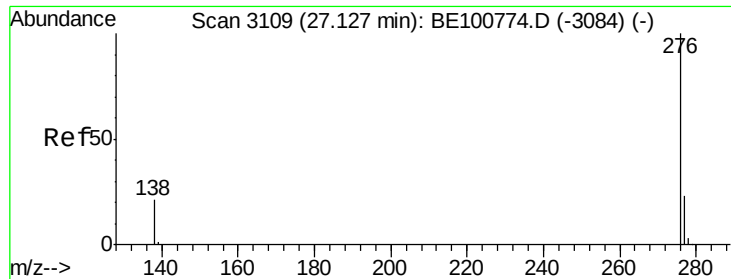
Delta R.T. -0.03 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 134468 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 18.4  | 13.0  | 19.4   |
| 279       | 29.6  | 19.6  | 29.4#  |





#39

Benzo(a,h,i)perylene

Concen: 3.576 ng

RT: 27.12 min Scan# 3107

Delta R.T. -0.00 min

Lab File: BE100790.D

Acq: 5 Dec 2019 15:49

Instrument :

BNA\_E

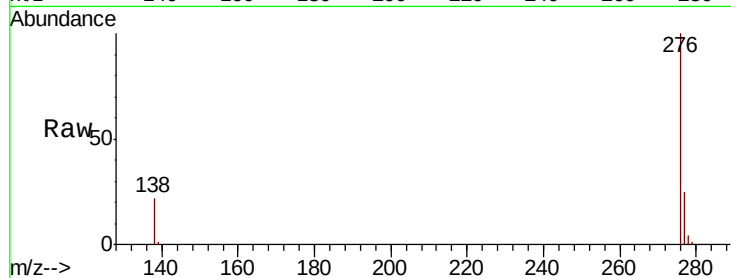
ClientSampleId :

EXT-084-SW178-112519-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 503128 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.6  | 19.3  | 28.9   |
| 138       | 21.5  | 17.8  | 26.6   |

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

