

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE101218\  
 Data File : BE097882.D  
 Acq On : 12 Oct 2018 11:43  
 Operator : SJ/JU  
 Sample : J5183-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 JLC16

Manual Integrations  
 APPROVED

Sohil  
 10/15/2018 3:55:29 PM

Quant Time: Oct 12 15:11:37 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE101118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 12 04:56:57 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|---------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.89  | 152  | 2389     | 0.40    | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.70 | 136  | 11837    | 0.40    | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.55 | 164  | 8484     | 0.40    | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.31 | 188  | 17671m   | 0.40    | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.51 | 240  | 16366m   | 0.40    | ng/ul  | 0.01     |
| 20) Perylene-d12            | 24.10 | 264  | 20063m   | 0.40    | ng/ul  | 0.04     |
| System Monitoring Compounds |       |      |          |         |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.29 | 152  | 5183     | 0.26    | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.35 | 212  | 14760m   | 0.26    | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue  |        |          |
| 3) Naphthalene              | 10.75 | 128  | 10081    | 0.350   | ng/ul  | 94       |
| 5) 2-Methylnaphthalene      | 12.37 | 142  | 7762     | 0.373   | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.27 | 152  | 6027     | 0.188   | ng/ul# | 82       |
| 8) Acenaphthene             | 14.61 | 153  | 28634    | 1.150   | ng/ul  | 98       |
| 9) Fluorene                 | 15.61 | 166  | 9293     | 0.286   | ng/ul# | 96       |
| 11) Pentachlorophenol       | 16.97 | 266  | 1989m    | 0.798   | ng/ul  |          |
| 12) Phenanthrene            | 17.35 | 178  | 461040m  | 11.021  | ng/ul  |          |
| 13) Anthracene              | 17.44 | 178  | 88405m   | 2.281   | ng/ul  |          |
| 15) Fluoranthene            | 19.38 | 202  | 1805417m | 33.604  | ng/ul  |          |
| 17) Pyrene                  | 19.74 | 202  | 2251399  | 46.178  | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.49 | 228  | 1595237  | 32.238  | ng/ul  | 97       |
| 19) Chrysene                | 21.56 | 228  | 7470555  | 168.027 | ng/ul# | 87       |
| 21) Benzo(b)fluoranthene    | 23.32 | 252  | 5351672m | 99.806  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.36 | 252  | 1275710m | 22.226  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.99 | 252  | 872725m  | 16.578  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 26.84 | 276  | 1519292m | 25.422  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 26.85 | 278  | 467917m  | 9.473   | ng/ul  |          |
| 26) Benzo(g,h,i)perylene    | 27.70 | 276  | 1765587  | 33.906  | ng/ul  | 99       |

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

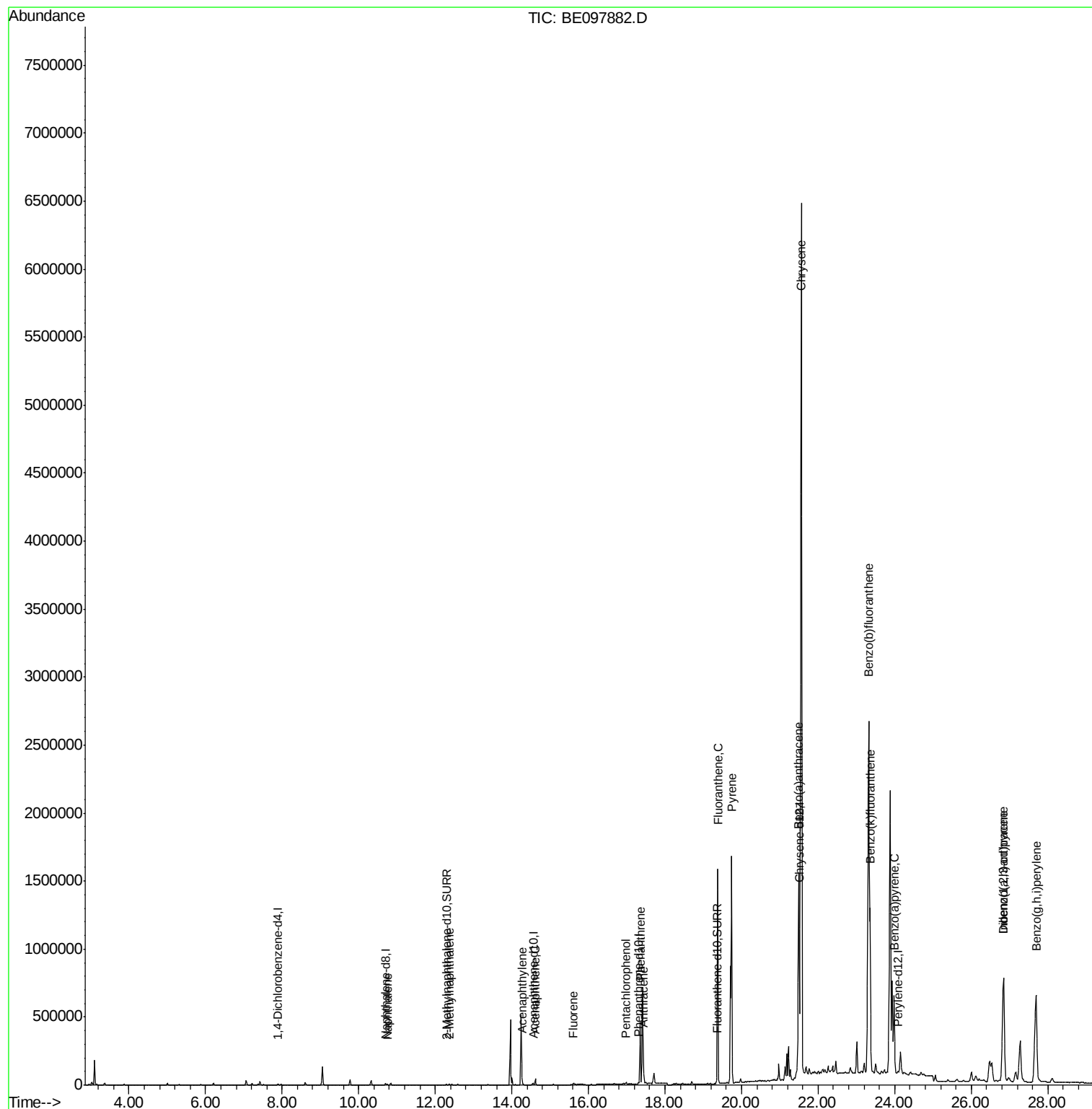
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE101218\  
Data File : BE097882.D  
Acq On : 12 Oct 2018 11:43  
Operator : SJ/JU  
Sample : J5183-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

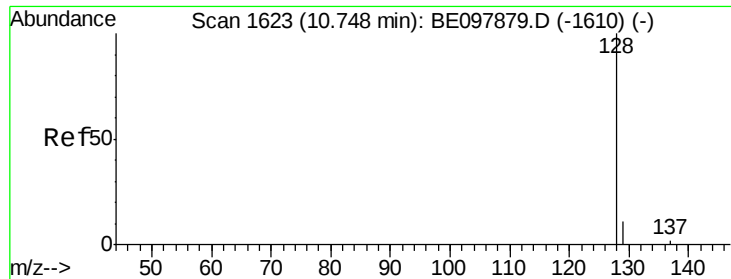
Instrument :  
BNA\_E  
ClientSampleId :  
JLC16

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Quant Time: Oct 12 15:11:37 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE101118.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 12 04:56:57 2018  
Response via : Initial Calibration





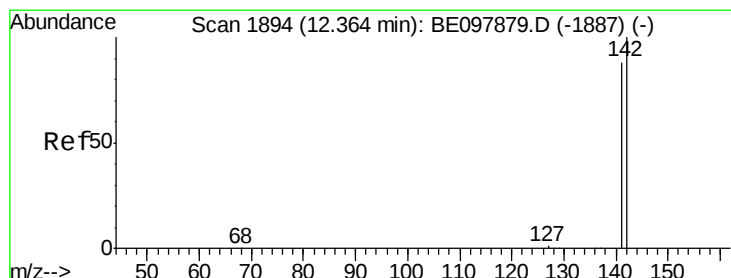
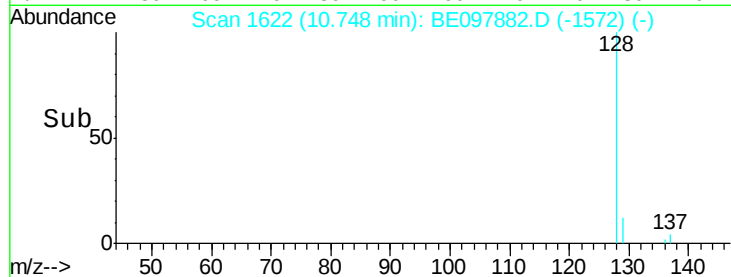
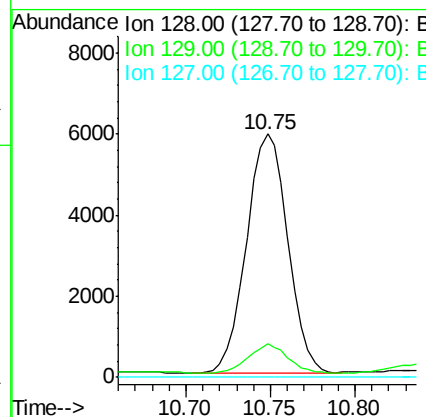
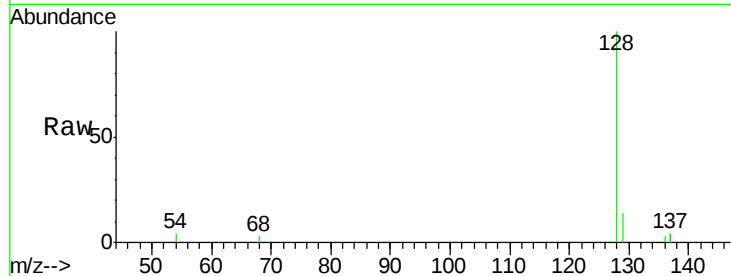
#3  
Naphthalene  
Concen: 0.350 ng/ul  
RT: 10.75 min Scan# 1622  
Delta R.T. 0.00 min  
Lab File: BE097882.D  
Acq: 12 Oct 2018 11:43

Instrument :  
BNA\_E  
ClientSampleId :  
JLC16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 13.6  | 9.1   | 13.7  |
| 127     | 0.0   | 0.0   | 0.0   |

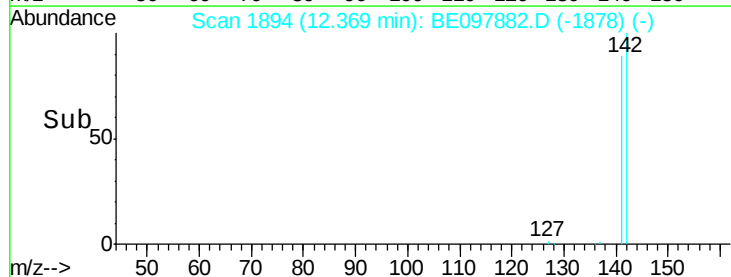
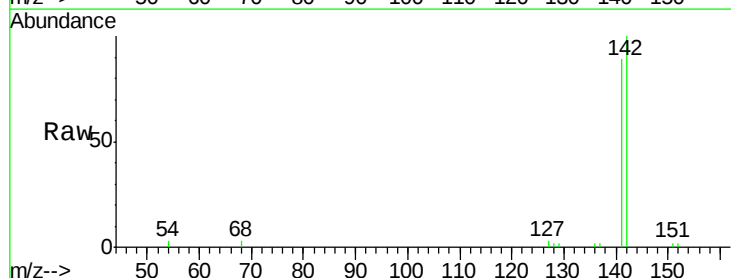
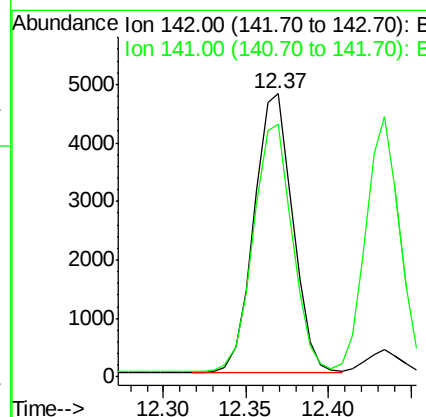
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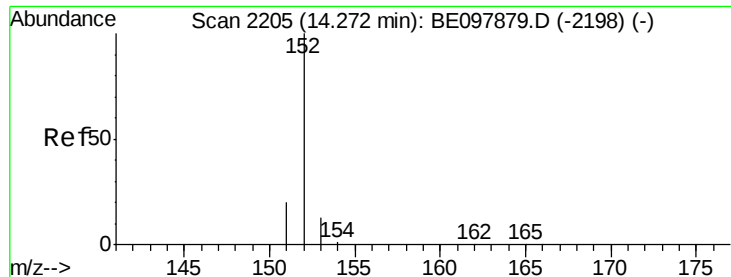
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#5  
2-Methylnaphthalene  
Concen: 0.373 ng/ul  
RT: 12.37 min Scan# 1894  
Delta R.T. 0.00 min  
Lab File: BE097882.D  
Acq: 12 Oct 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.5  | 71.6  | 107.4 |





#7

Acenaphthylene

Concen: 0.188 ng/ul

RT: 14.27 min Scan# 2204

Delta R.T. 0.00 min

Lab File: BE097882.D

Acq: 12 Oct 2018 11:43

Instrument :

BNA\_E

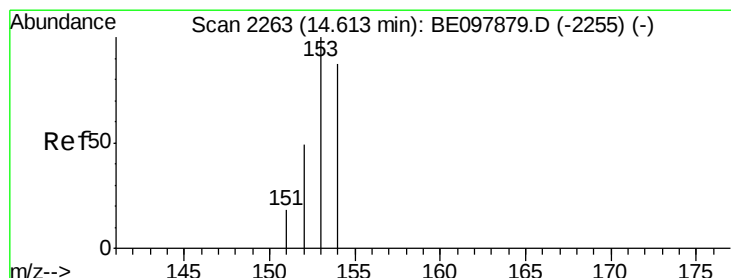
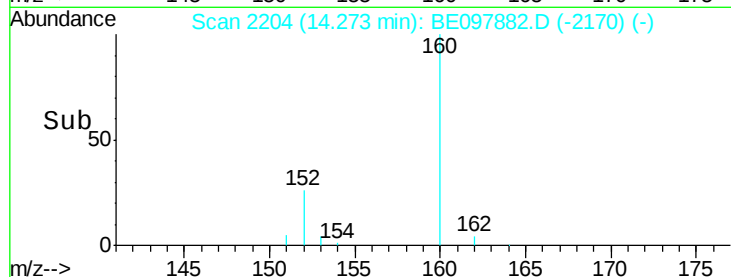
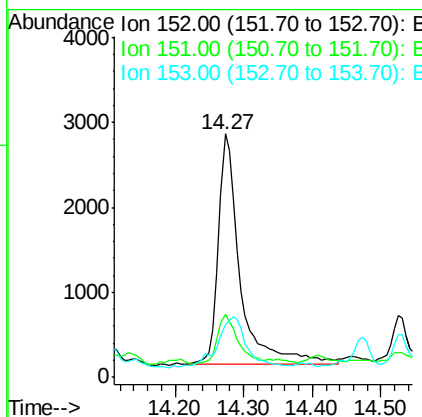
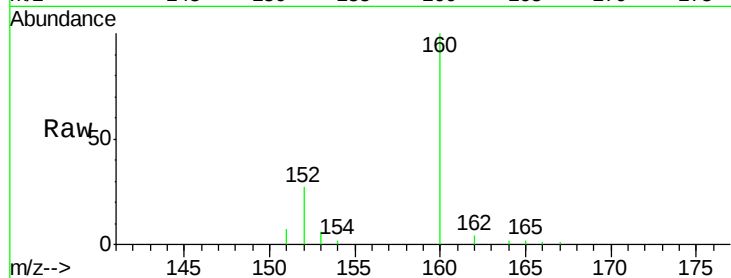
ClientSampleId :

JLC16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 6027  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 25.7  | 15.0  | 22.6# |
| 153       | 22.0  | 10.5  | 15.7# |

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#8

Acenaphthene

Concen: 1.150 ng/ul

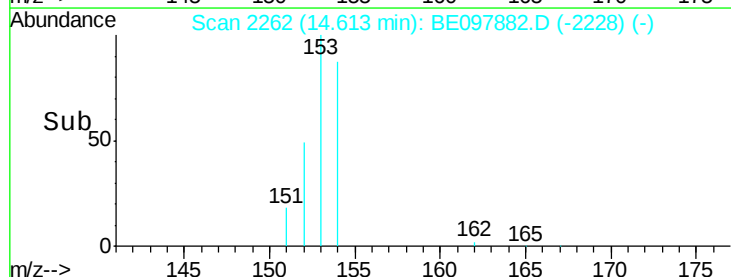
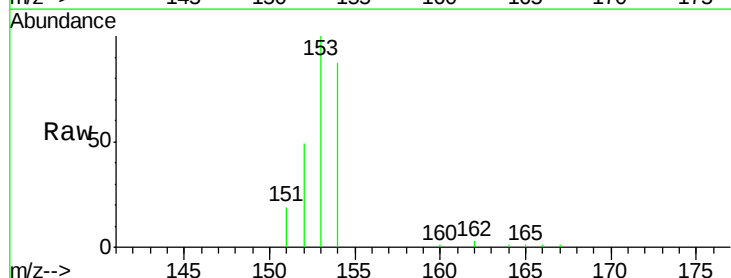
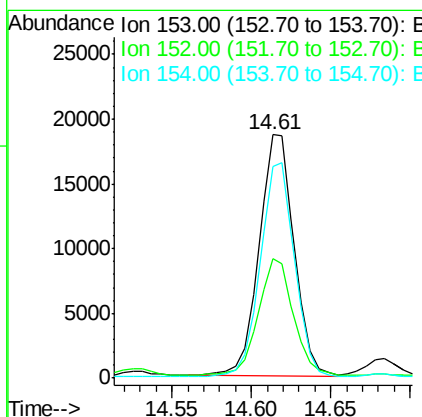
RT: 14.61 min Scan# 2262

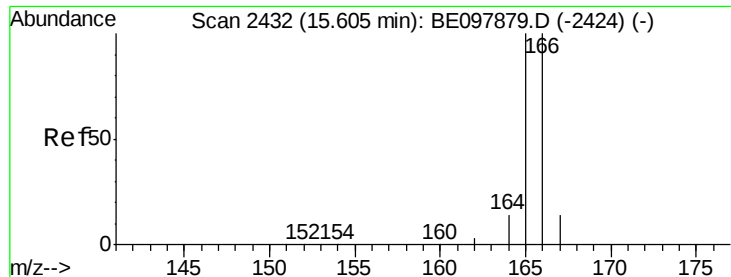
Delta R.T. 0.00 min

Lab File: BE097882.D

Acq: 12 Oct 2018 11:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 28634 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 49.3  | 41.2  | 61.8  |
| 154       | 87.0  | 68.6  | 103.0 |





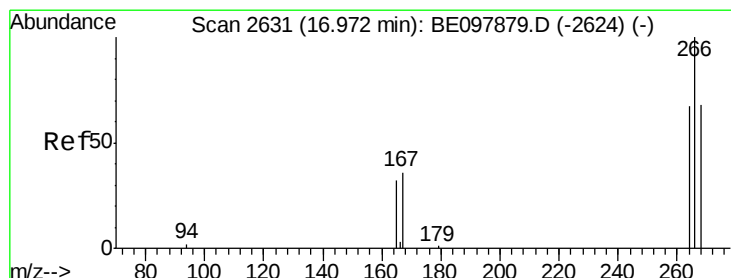
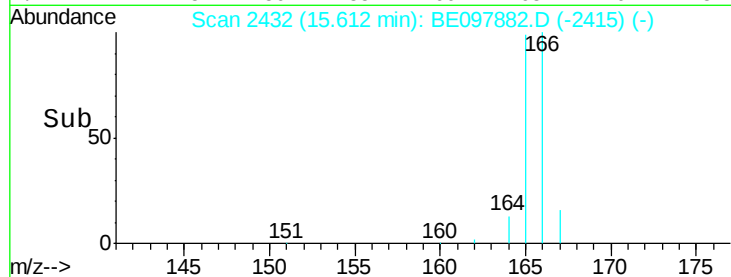
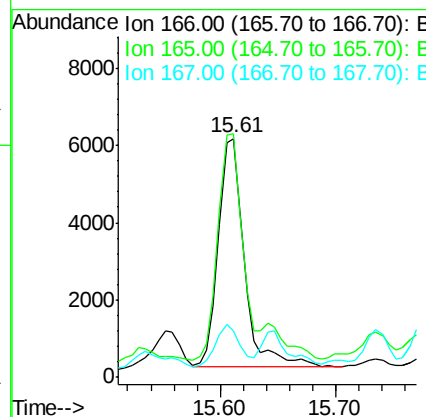
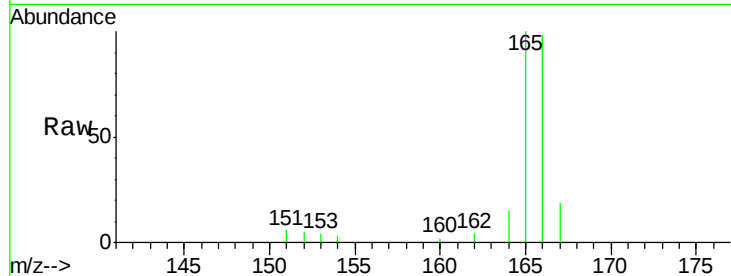
#9  
**Fluorene**  
 Concen: 0.286 ng/ul  
 RT: 15.61 min Scan# 2432  
 Delta R.T. 0.00 min  
 Lab File: BE097882.D  
 Acq: 12 Oct 2018 11:43

Instrument :  
 BNA\_E  
 ClientSampleId :  
 JLC16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.9 | 79.2  | 118.8 |
| 167     | 19.3  | 11.3  | 16.9# |

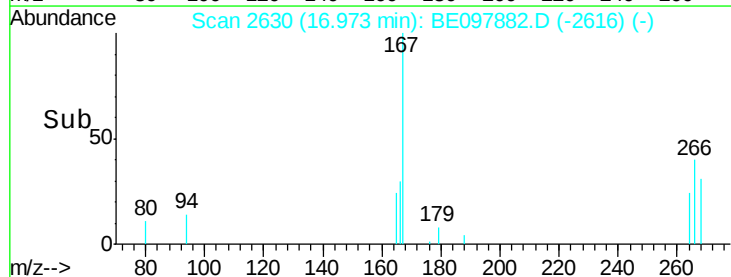
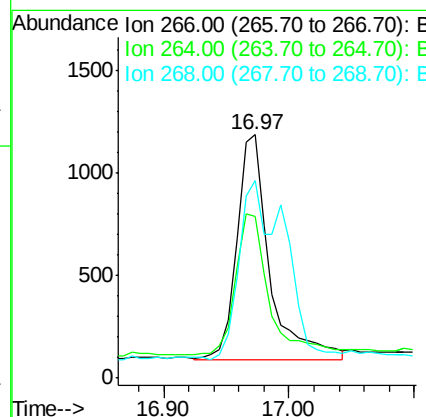
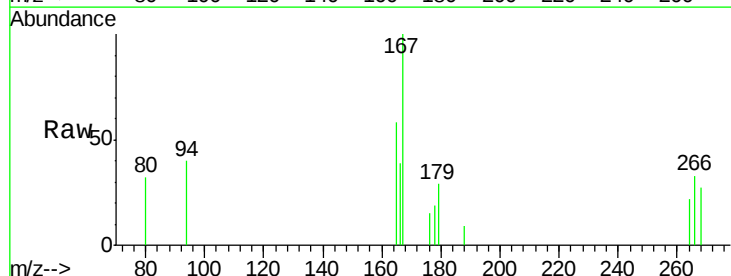
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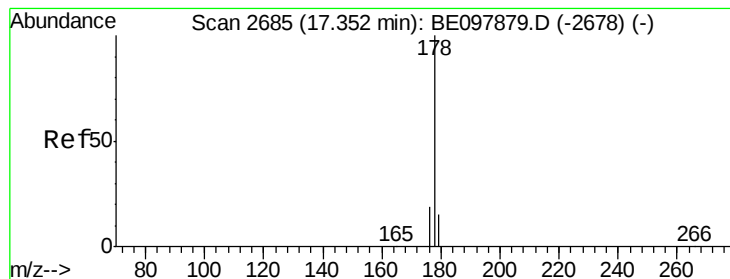
Sohil  
 10/15/2018 3:55:29 PM



#11  
**Pentachlorophenol**  
 Concen: 0.798 ng/ul m  
 RT: 16.97 min Scan# 2630  
 Delta R.T. 0.00 min  
 Lab File: BE097882.D  
 Acq: 12 Oct 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 0.0   | 49.8  | 74.8# |
| 268     | 0.0   | 48.4  | 72.6# |





#12

Phenanthrene

Concen: 11.021 ng/ul m

RT: 17.35 min Scan# 2684

Delta R.T. 0.00 min

Lab File: BE097882.D

Acq: 12 Oct 2018 11:43

Instrument :

BNA\_E

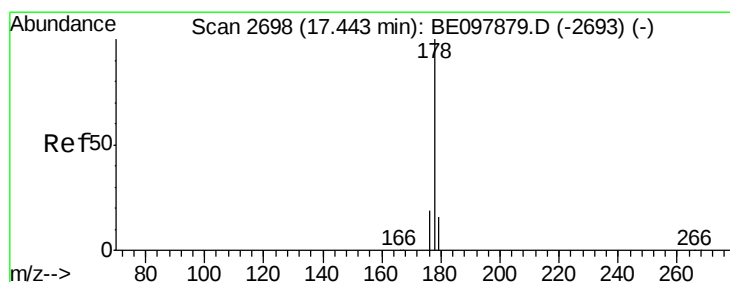
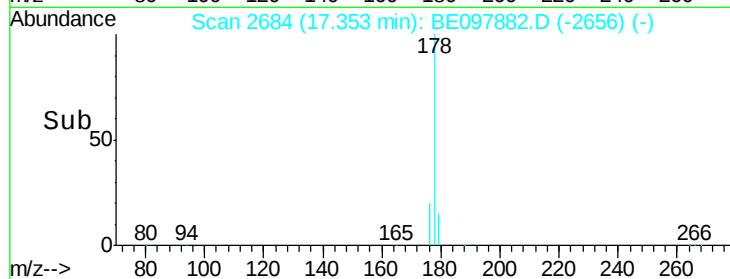
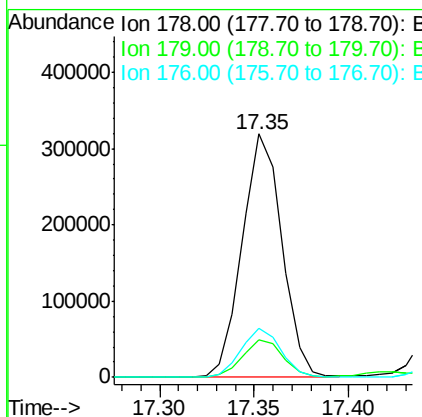
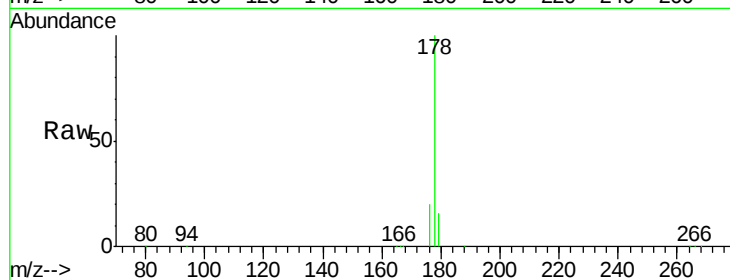
ClientSampleId :

JLC16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.7  | 12.8  | 19.2  |
| 176     | 19.9  | 14.9  | 22.3  |

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#13

Anthracene

Concen: 2.281 ng/ul m

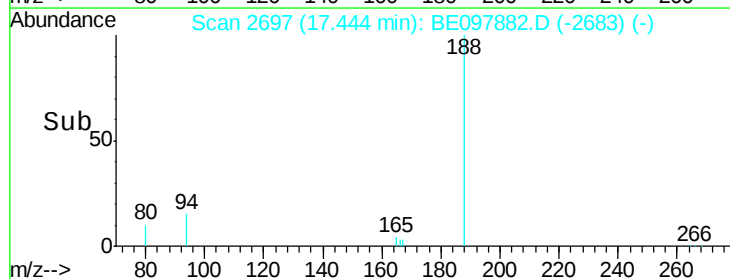
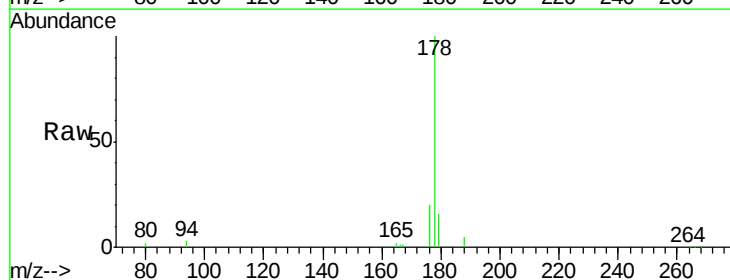
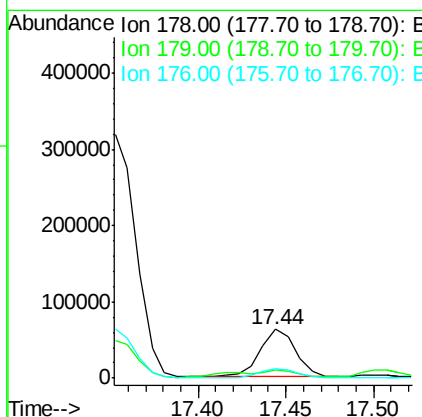
RT: 17.44 min Scan# 2697

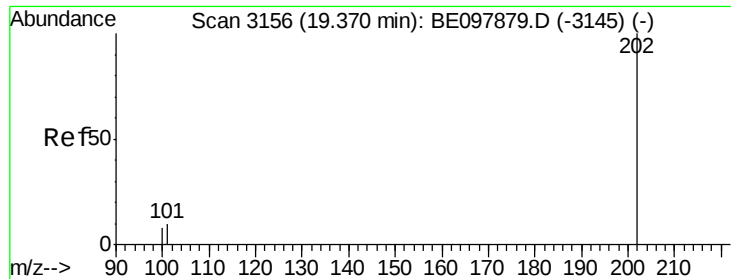
Delta R.T. 0.00 min

Lab File: BE097882.D

Acq: 12 Oct 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.5  | 12.9  | 19.3  |
| 176     | 20.2  | 15.5  | 23.3  |





#15

Fluoranthene

Concen: 33.604 ng/ul m

RT: 19.38 min Scan# 3157

Delta R.T. 0.01 min

Lab File: BE097882.D

Acq: 12 Oct 2018 11:43

Instrument :

BNA\_E

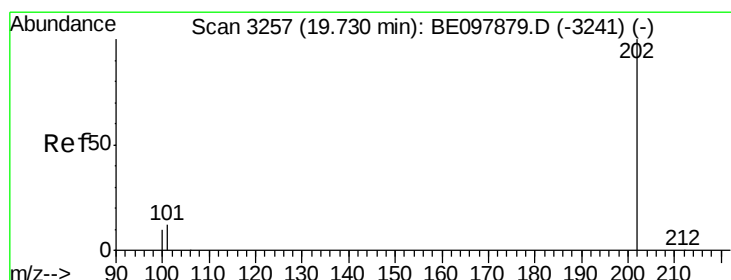
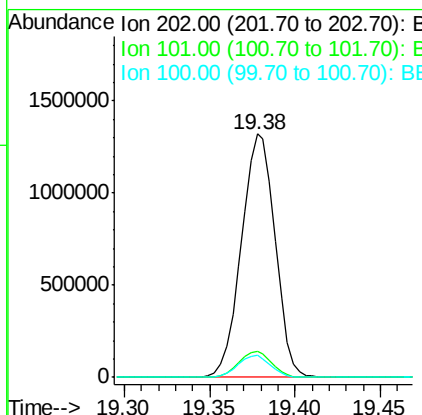
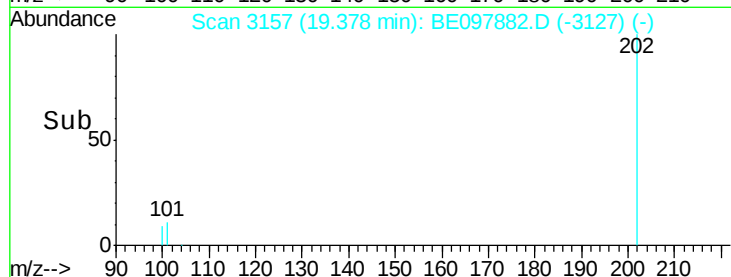
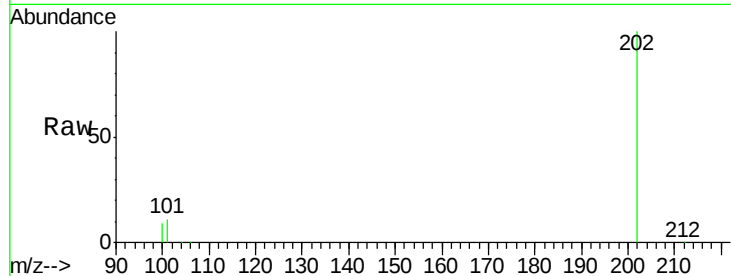
ClientSampleId :

JLC16

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1805417 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 10.8  | 0.0   | 29.3    |
| 100       | 8.9   | 0.0   | 27.5    |

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#17

Pyrene

Concen: 46.178 ng/ul

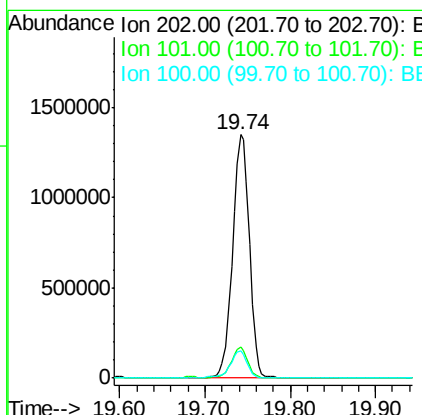
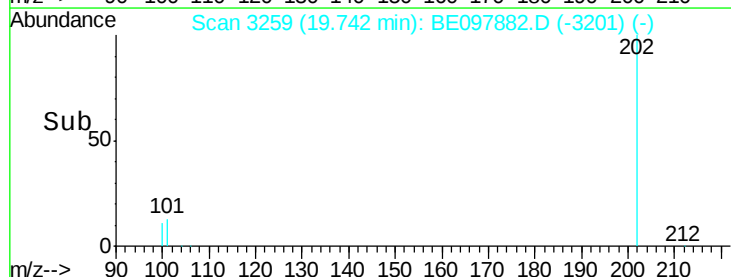
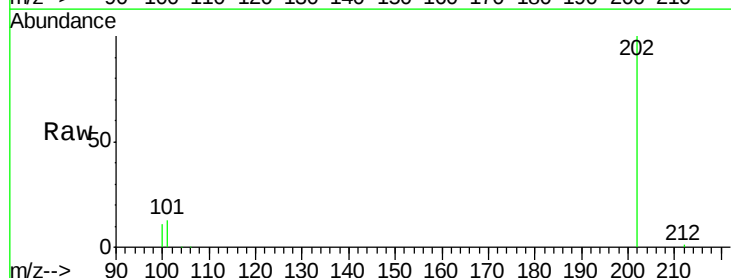
RT: 19.74 min Scan# 3259

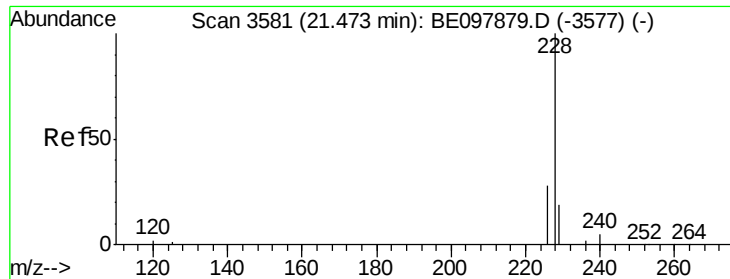
Delta R.T. 0.01 min

Lab File: BE097882.D

Acq: 12 Oct 2018 11:43

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 2251399 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 12.7  | 8.8   | 13.2    |
| 100       | 11.1  | 7.9   | 11.9    |





#18

Benzo(a)anthracene

Concen: 32.238 ng/ul

RT: 21.49 min Scan# 3583

Delta R.T. 0.01 min

Lab File: BE097882.D

Acq: 12 Oct 2018 11:43

Instrument :

BNA\_E

ClientSampleId :

JLC16

Tgt Ion:228 Resp: 1595237

Ion Ratio Lower Upper

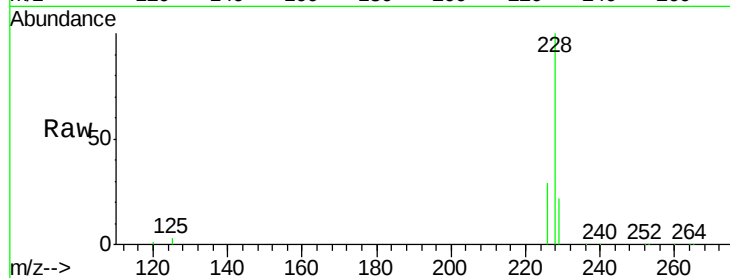
228 100

229 21.7 16.4 24.6

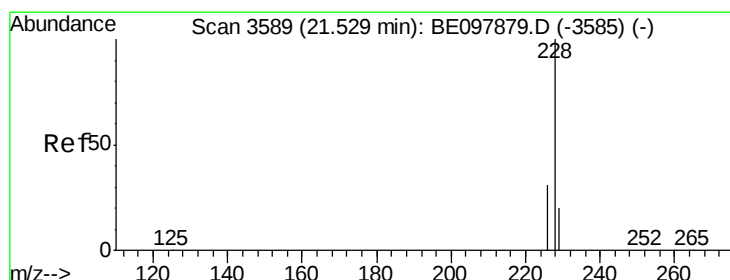
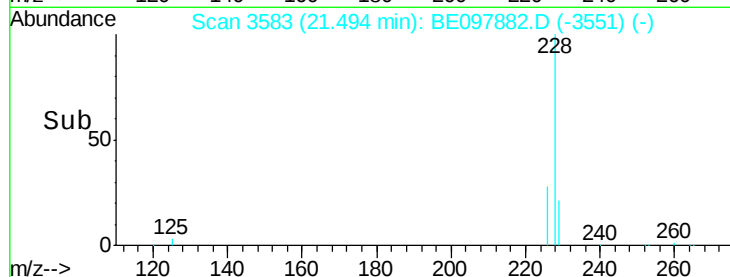
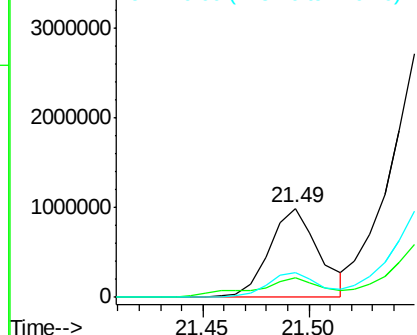
226 28.5 21.5 32.3

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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E



#19

Chrysene

Concen: 168.027 ng/ul

RT: 21.56 min Scan# 3593

Delta R.T. 0.03 min

Lab File: BE097882.D

Acq: 12 Oct 2018 11:43

Tgt Ion:228 Resp: 7470555

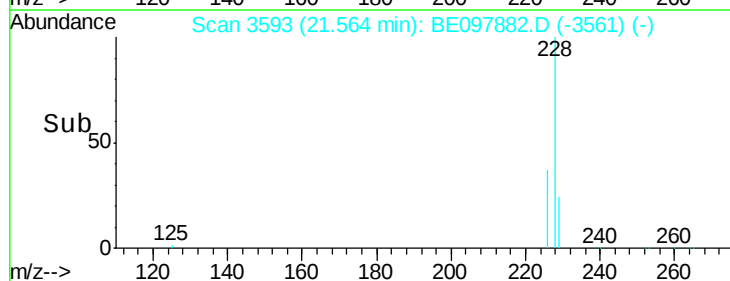
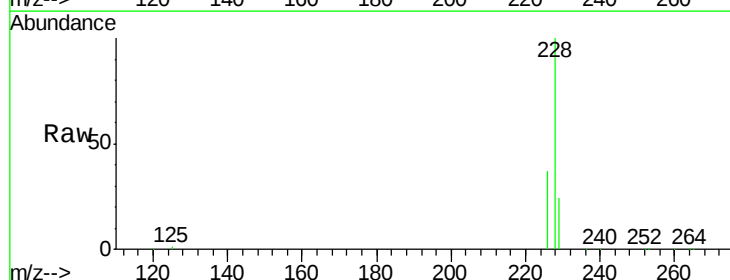
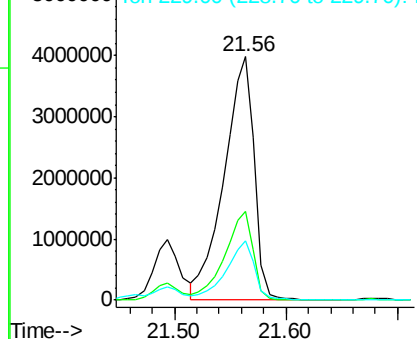
Ion Ratio Lower Upper

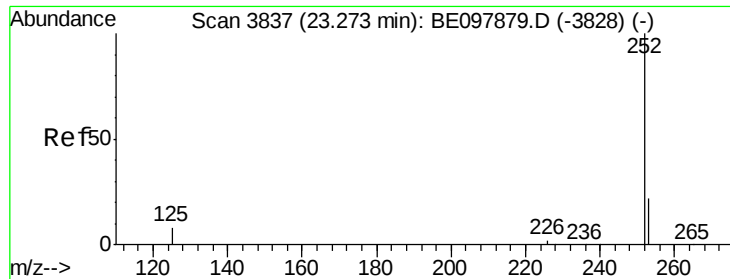
228 100

226 36.7 23.0 34.4#

229 24.3 15.5 23.3#

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





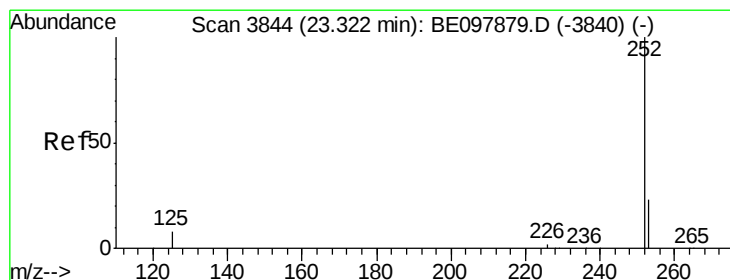
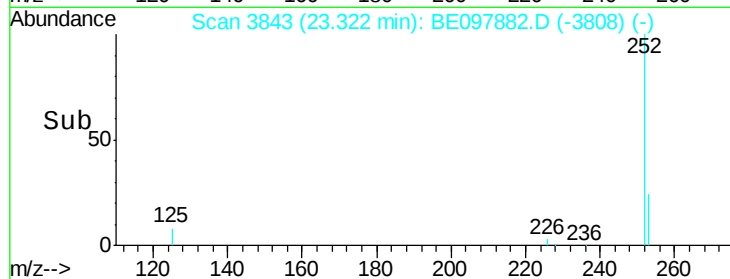
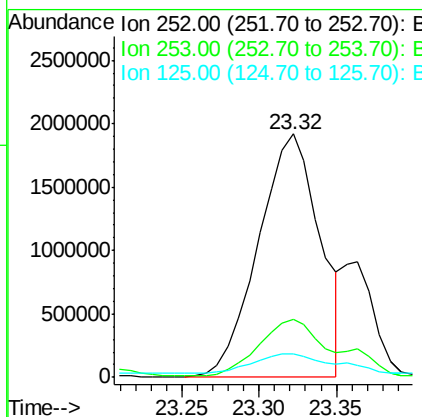
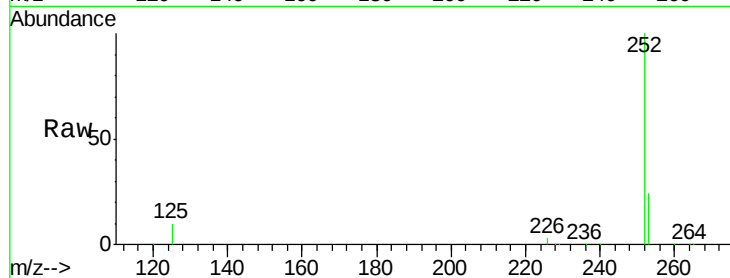
#21  
Benzo(b)fluoranthene  
Concen: 99.806 ng/ul m  
RT: 23.32 min Scan# 3843  
Delta R.T. 0.05 min  
Lab File: BE097882.D  
Acq: 12 Oct 2018 11:43

Instrument :  
BNA\_E  
ClientSampleId :  
JLC16

Tgt Ion:252 Resp: 5351672  
Ion Ratio Lower Upper  
252 100  
253 23.9 0.0 47.0  
125 9.9 0.0 18.2

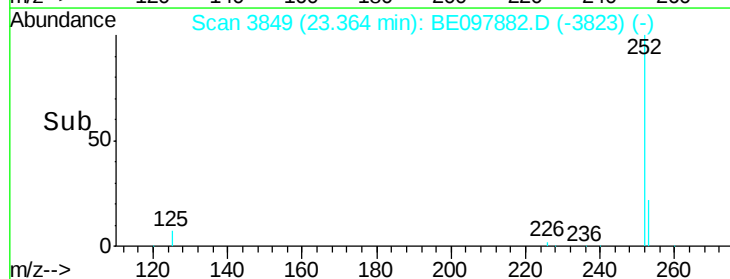
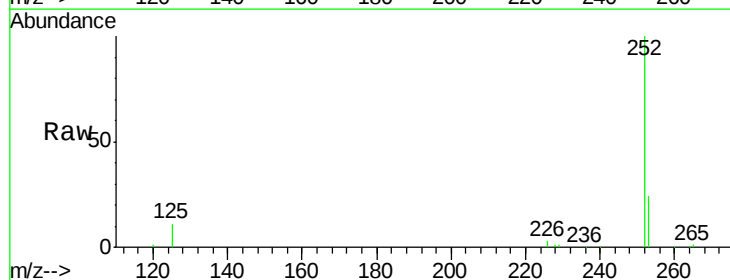
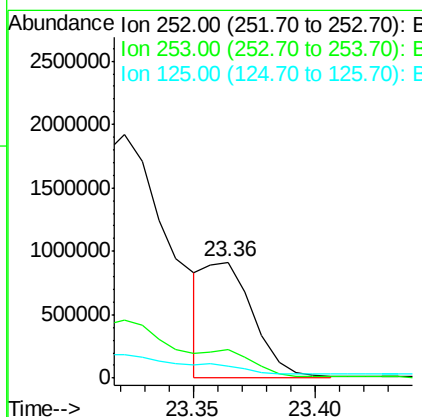
Manual Integrations  
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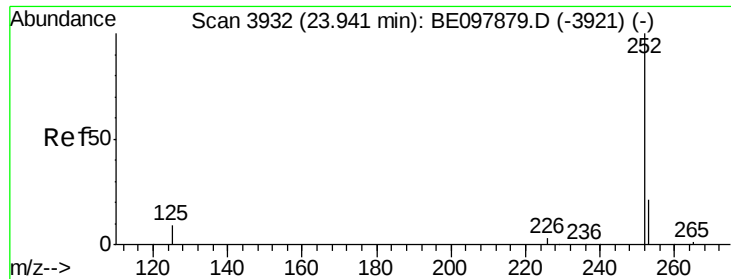
Sohil  
10/15/2018 3:55:29 PM



#22  
Benzo(k)fluoranthene  
Concen: 22.226 ng/ul m  
RT: 23.36 min Scan# 3849  
Delta R.T. 0.04 min  
Lab File: BE097882.D  
Acq: 12 Oct 2018 11:43

Tgt Ion:252 Resp: 1275710  
Ion Ratio Lower Upper  
252 100  
253 24.3 17.8 26.6  
125 10.8 9.4 14.0





#23

Benzo(a)pyrene

Concen: 16.578 ng/ul m

RT: 23.99 min Scan# 3938

Delta R.T. 0.04 min

Lab File: BE097882.D

Acq: 12 Oct 2018 11:43

Instrument :

BNA\_E

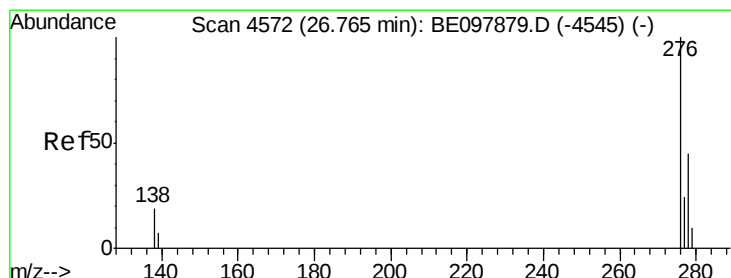
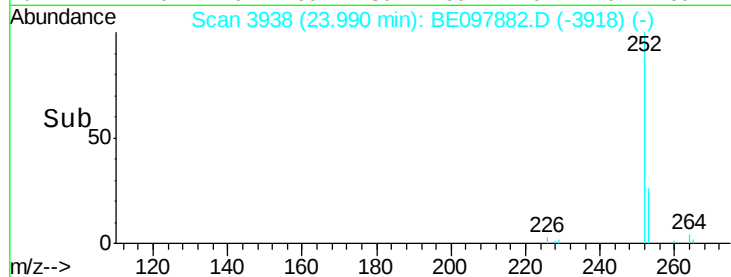
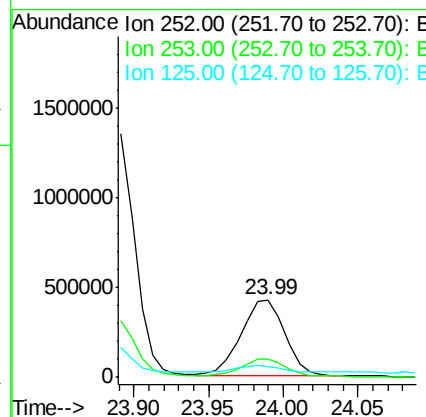
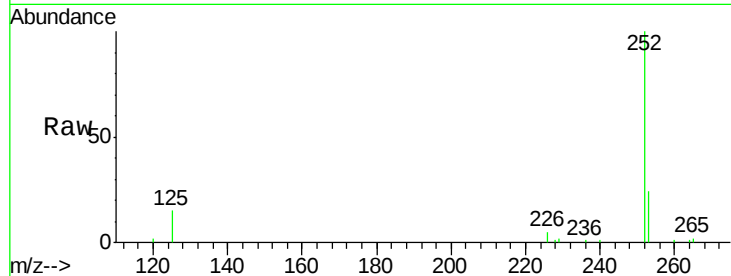
ClientSampleId :

JLC16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 872725 |       |       |
| 253     | 23.6  | 18.2   | 27.4  |       |
| 125     | 14.6  | 8.3    | 12.5# |       |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 25.422 ng/ul m

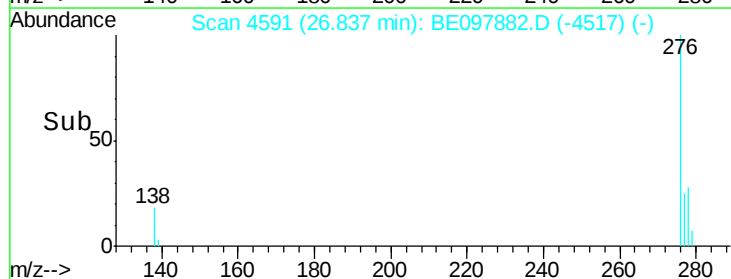
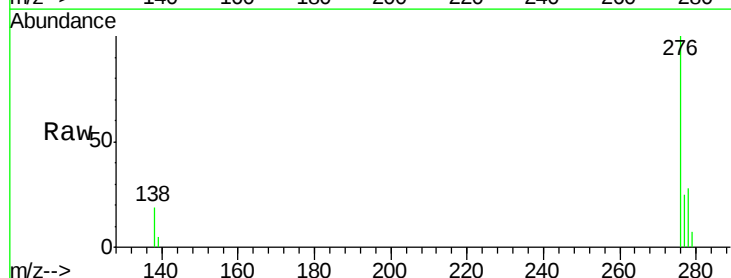
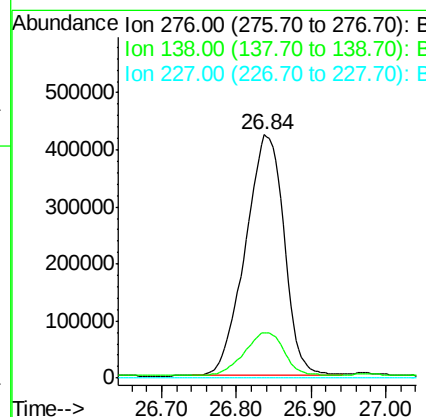
RT: 26.84 min Scan# 4591

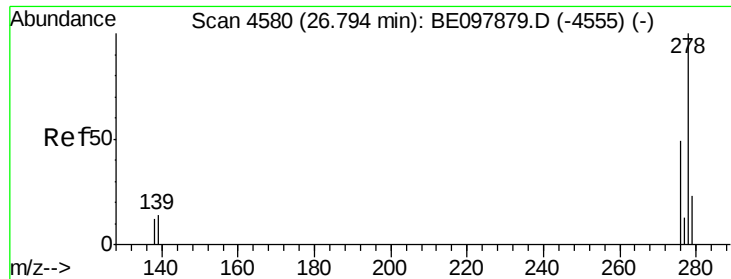
Delta R.T. 0.06 min

Lab File: BE097882.D

Acq: 12 Oct 2018 11:43

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 276     | 100   | 1519292 |       |       |
| 138     | 17.5  | 0.0     | 0.0#  |       |
| 227     | 0.0   | 0.0     | 0.0   |       |





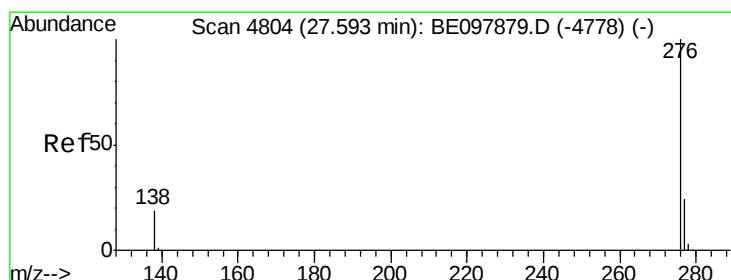
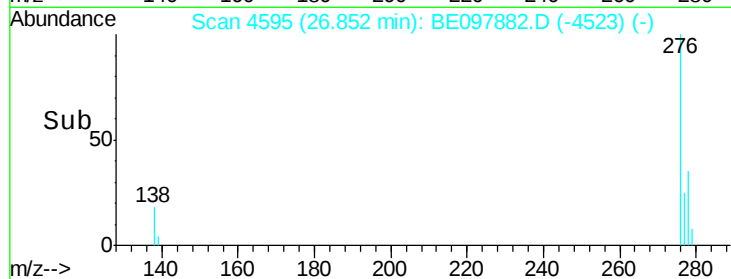
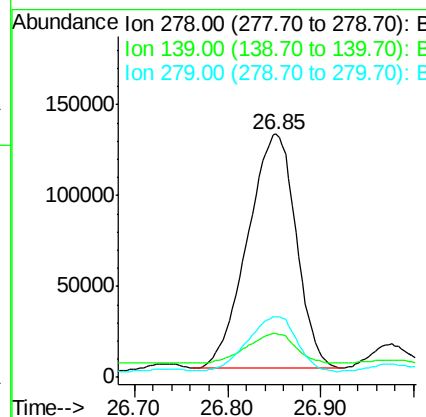
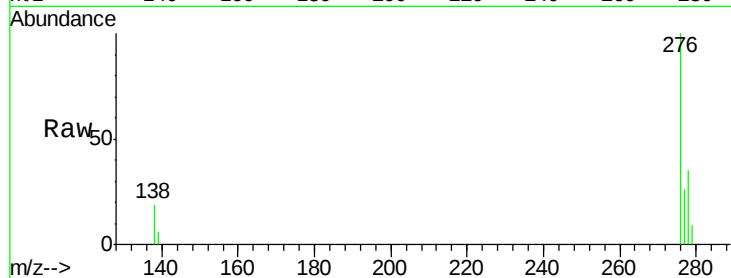
#25  
Dibenzo(a,h)anthracene  
Concen: 9.473 ng/ul m  
RT: 26.85 min Scan# 4595  
Delta R.T. 0.06 min  
Lab File: BE097882.D  
Acq: 12 Oct 2018 11:43

Instrument :  
BNA\_E  
ClientSampleId :  
JLC16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.0  | 10.9  | 16.3# |
| 279     | 24.7  | 18.8  | 28.2  |

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#26  
Benzo(g,h,i)perylene  
Concen: 33.906 ng/ul  
RT: 27.70 min Scan# 4832  
Delta R.T. 0.10 min  
Lab File: BE097882.D  
Acq: 12 Oct 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.6  | 14.3  | 21.5  |
| 277     | 24.4  | 19.5  | 29.3  |

