

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM111017\  
 Data File : BM012899.D  
 Acq On : 11 Nov 2017 13:29  
 Operator : SJ/JU  
 Sample : I6317-07  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DAHJ3

Manual Integrations  
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 11/13/2017 4:51:01 PM

Quant Time: Nov 13 01:30:34 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 13 01:07:29 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.79  | 152  | 63947    | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.57 | 136  | 245099   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.42 | 164  | 144158   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.17 | 188  | 318352   | 20.00  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.35 | 240  | 380959   | 20.00  | ng/ul  | 0.00     |
| 22) Perylene-d12            | 23.63 | 264  | 428106   | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 7) Acenaphthylene-d8        | 14.12 | 160  | 253289   | 16.89  | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.42 | 176  | 187973   | 18.33  | ng/ul  | 0.00     |
| 14) Anthracene-d10          | 17.27 | 188  | 275578   | 17.91  | ng/ul  | 0.00     |
| 18) Pyrene-d10              | 19.56 | 212  | 301336   | 17.68  | ng/ul  | 0.00     |
| 25) Benzo(a)pyrene-d12      | 23.49 | 264  | 352951   | 17.46  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 13) Phenanthrene            | 17.22 | 178  | 30569    | 1.738  | ng/ul  | 97       |
| 16) Fluoranthene            | 19.23 | 202  | 82314    | 3.805  | ng/ul# | 94       |
| 19) Pyrene                  | 19.59 | 202  | 73928    | 3.381  | ng/ul# | 94       |
| 20) Benzo(a)anthracene      | 21.34 | 228  | 64828    | 2.766  | ng/ul  | 97       |
| 21) Chrysene                | 21.39 | 228  | 74004m   | 3.533  | ng/ul  |          |
| 23) Benzo(b)fluoranthene    | 22.94 | 252  | 183384   | 7.203  | ng/ul# | 97       |
| 24) Benzo(k)fluoranthene    | 22.99 | 252  | 52872m   | 2.173  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.53 | 252  | 90832    | 3.679  | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.93 | 276  | 83120    | 2.610  | ng/ul  | 96       |
| 29) Benzo(g,h,i)perylene    | 26.64 | 276  | 68843    | 2.590  | ng/ul  | 98       |

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

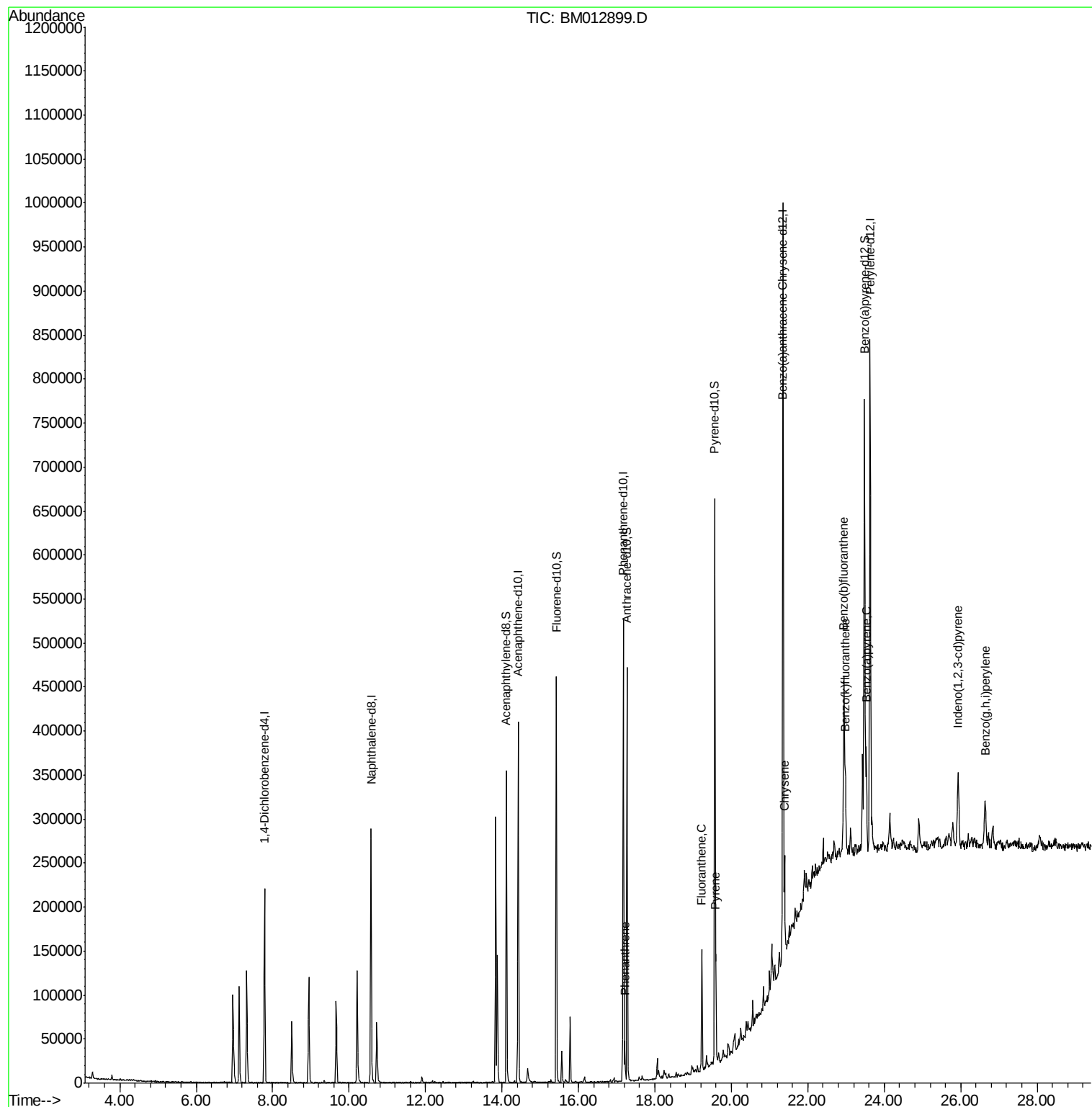
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM111017\  
Data File : BM012899.D  
Acq On : 11 Nov 2017 13:29  
Operator : SJ/JU  
Sample : I6317-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

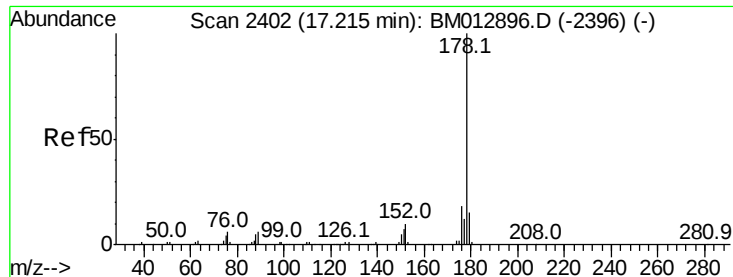
Instrument :  
BNA\_M  
ClientSampleId :  
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11/13/2017 4:51:01 PM

Quant Time: Nov 13 01:30:34 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Nov 13 01:07:29 2017  
Response via : Initial Calibration





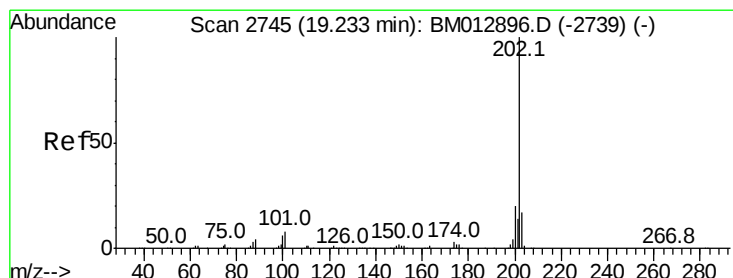
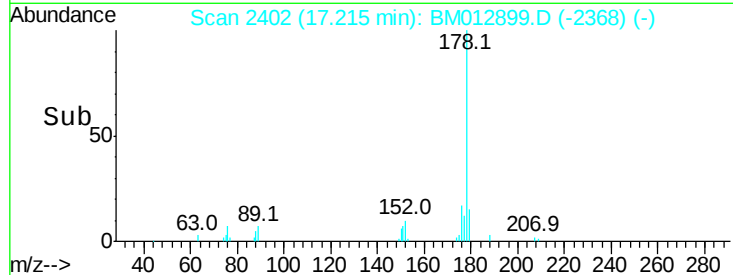
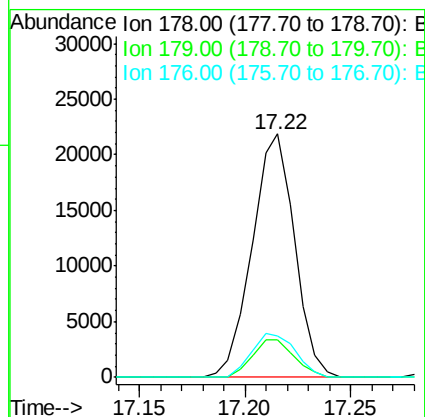
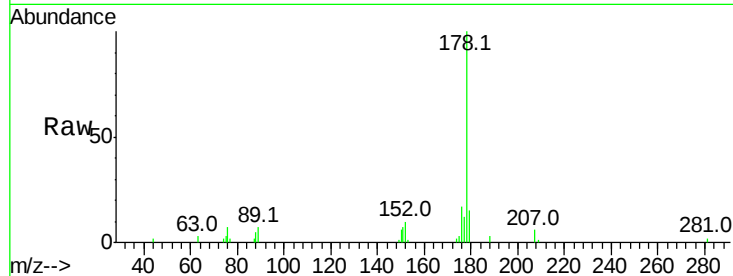
#13  
Phenanthrene  
Concen: 1.738 ng/ul  
RT: 17.22 min Scan# 2402  
Delta R.T. 0.00 min  
Lab File: BM012899.D  
Acq: 11 Nov 2017 13:29

Instrument :  
BNA\_M  
ClientSampled :  
DAHJ3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.2  | 12.3  | 18.5  |
| 176     | 16.8  | 15.1  | 22.7  |

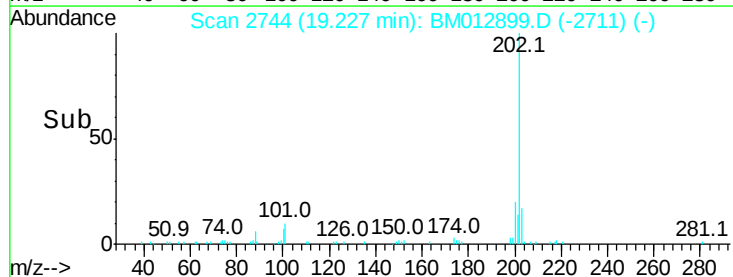
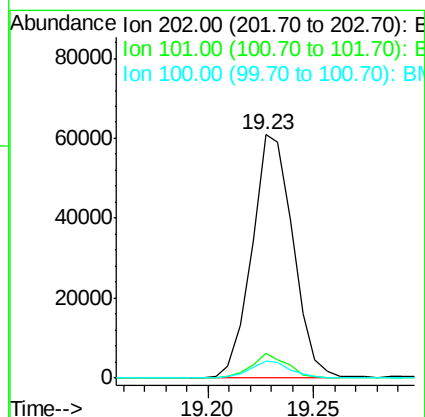
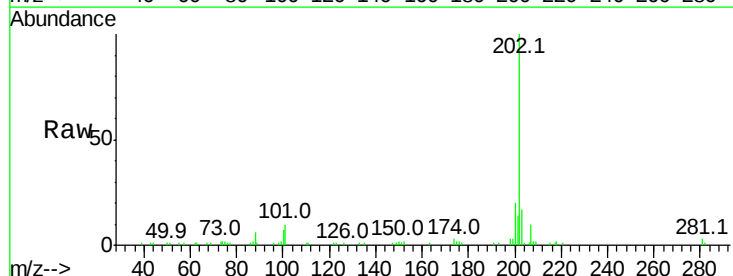
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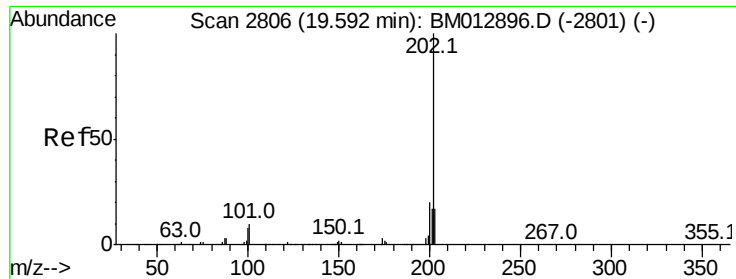
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#16  
Fluoranthene  
Concen: 3.805 ng/ul  
RT: 19.23 min Scan# 2744  
Delta R.T. -0.01 min  
Lab File: BM012899.D  
Acq: 11 Nov 2017 13:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.2  | 9.9   | 14.9  |
| 100     | 7.3   | 7.4   | 11.0# |





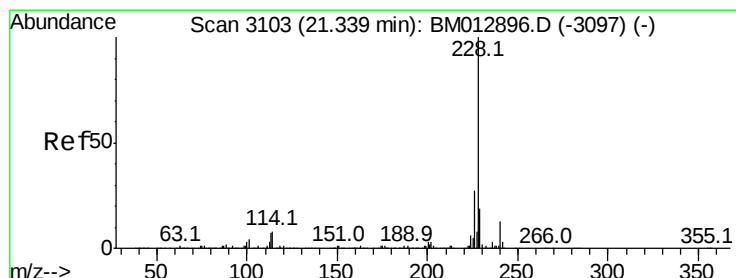
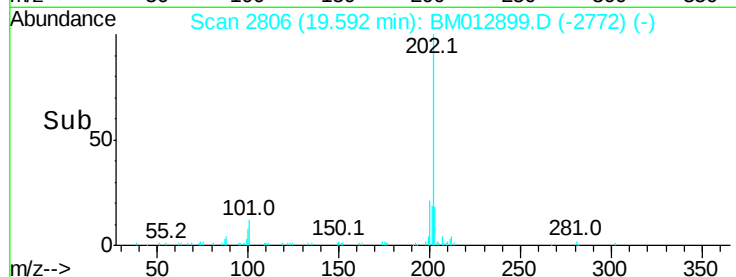
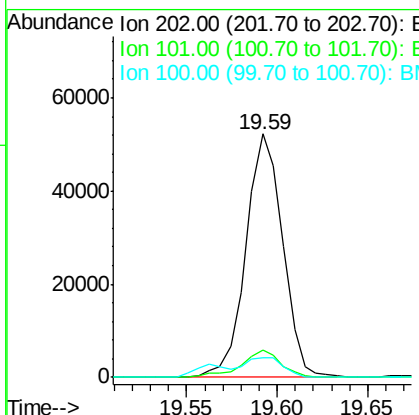
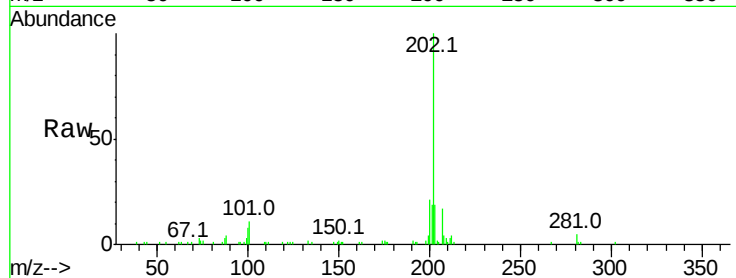
#19  
Pvrene  
Concen: 3.381 ng/ul  
RT: 19.59 min Scan# 2806  
Delta R.T. 0.00 min  
Lab File: BM012899.D  
Acq: 11 Nov 2017 13:29

Instrument :  
BNA\_M  
ClientSampleId :  
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| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.2  | 11.0       | 16.4  |
| 100     | 8.1   | 8.1        | 12.1# |

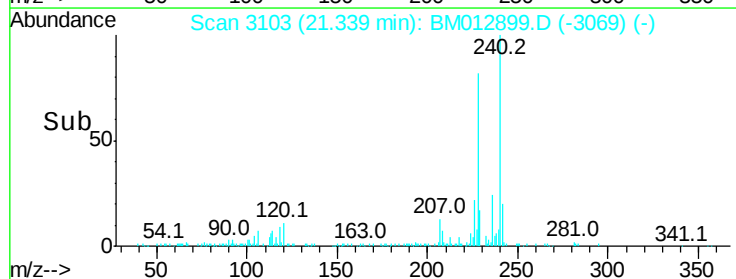
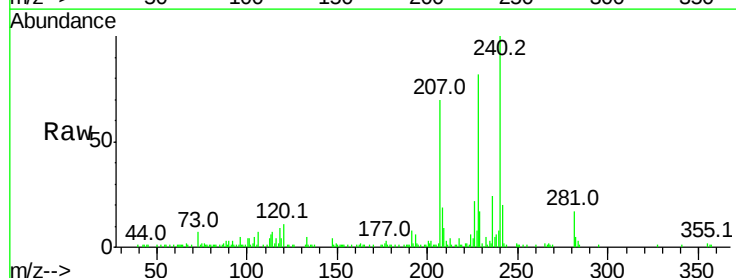
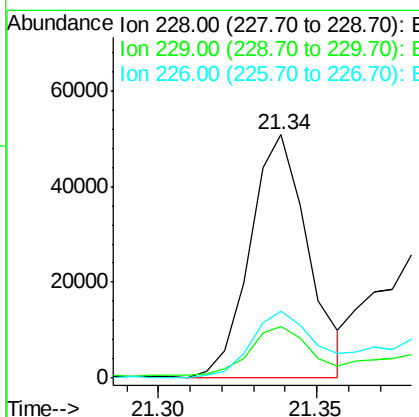
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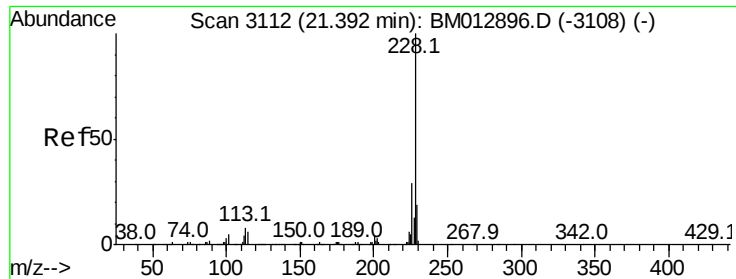
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#20  
Benzo(a)anthracene  
Concen: 2.766 ng/ul  
RT: 21.34 min Scan# 3103  
Delta R.T. 0.00 min  
Lab File: BM012899.D  
Acq: 11 Nov 2017 13:29

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 21.4  | 15.7       | 23.5  |
| 226     | 27.5  | 21.1       | 31.7  |





#21

Chrysene

Concen: 3.533 ng/ul m

RT: 21.39 min Scan# 3112

Delta R.T. 0.00 min

Lab File: BM012899.D

Acq: 11 Nov 2017 13:29

Instrument :

BNA\_M

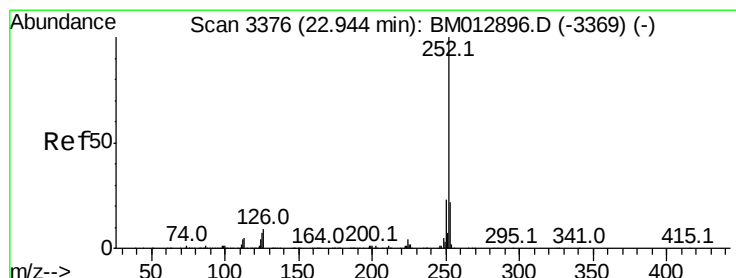
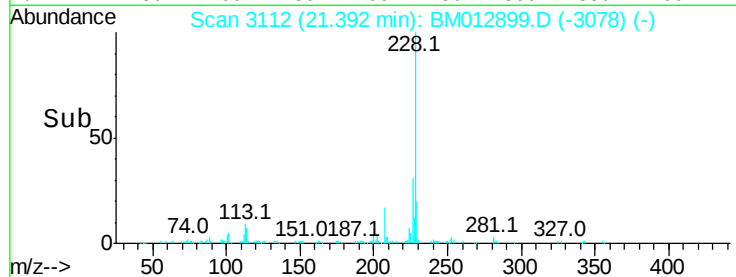
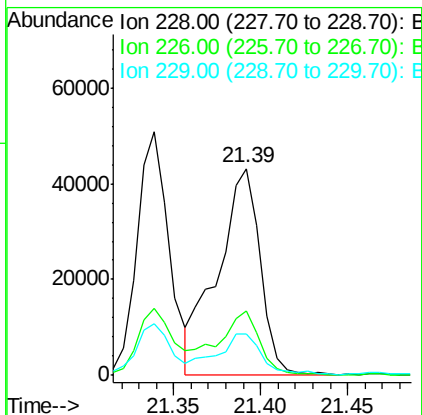
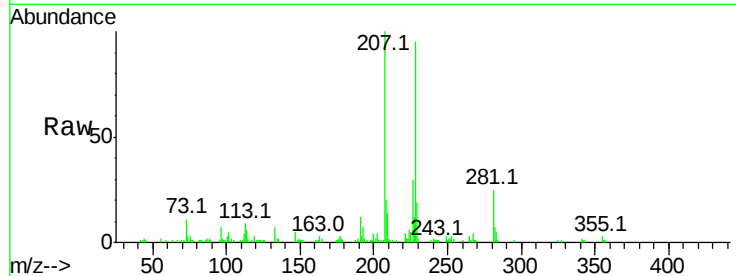
ClientSampleId :

DAHJ3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 74004 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.2  | 24.5  | 36.7  |
| 229       | 19.9  | 15.8  | 23.8  |

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#23

Benzo(b)fluoranthene

Concen: 7.203 ng/ul

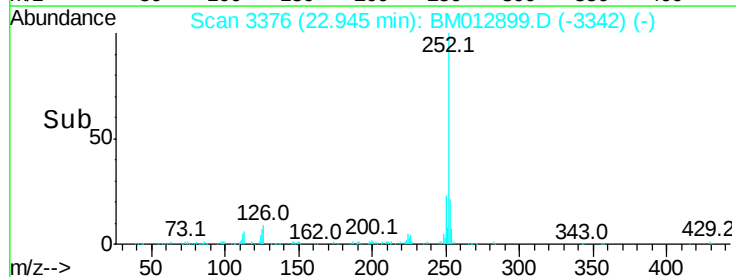
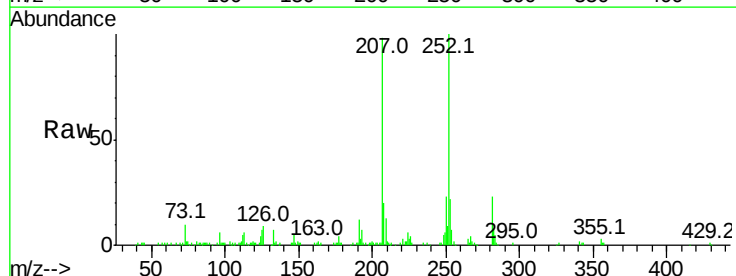
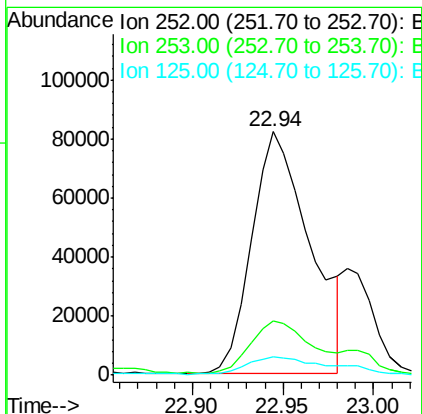
RT: 22.94 min Scan# 3376

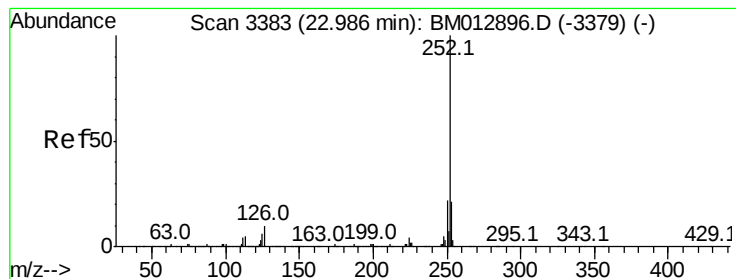
Delta R.T. 0.00 min

Lab File: BM012899.D

Acq: 11 Nov 2017 13:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 183384 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.0  | 18.0  | 27.0   |
| 125       | 7.5   | 8.0   | 12.0#  |





#24

Benzo(k)fluoranthene

Concen: 2.173 ng/ul m

RT: 22.99 min Scan# 3383

Delta R.T. 0.00 min

Lab File: BM012899.D

Acq: 11 Nov 2017 13:29

Instrument :

BNA\_M

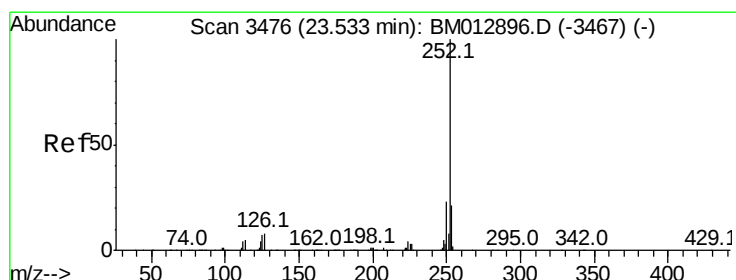
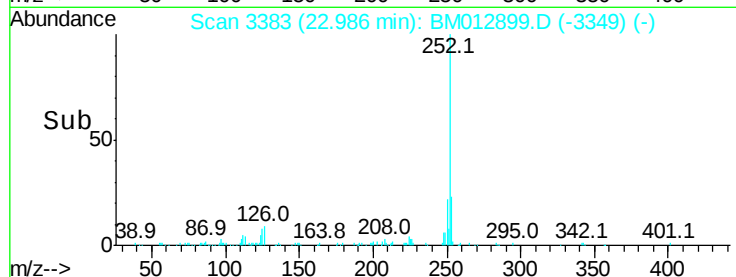
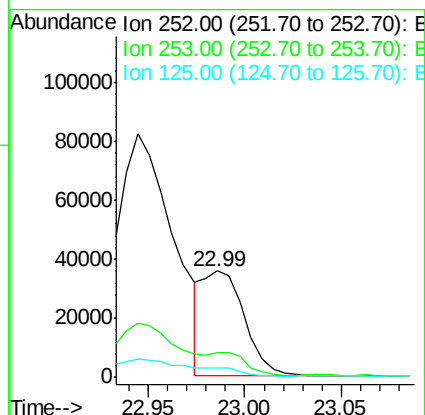
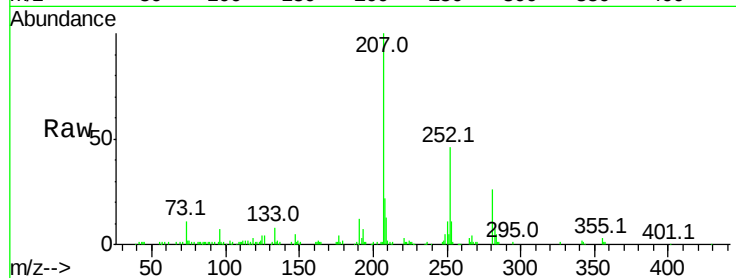
ClientSampled :

DAHJ3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 52872 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.7  | 18.0  | 27.0  |
| 125       | 9.4   | 8.1   | 12.1  |

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#26

Benzo(a)pyrene

Concen: 3.679 ng/ul

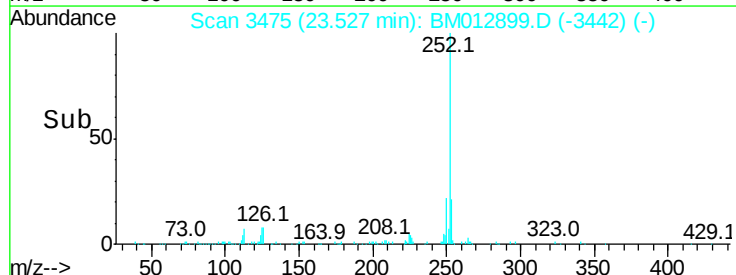
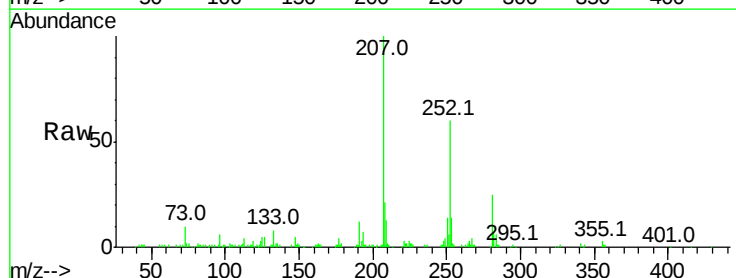
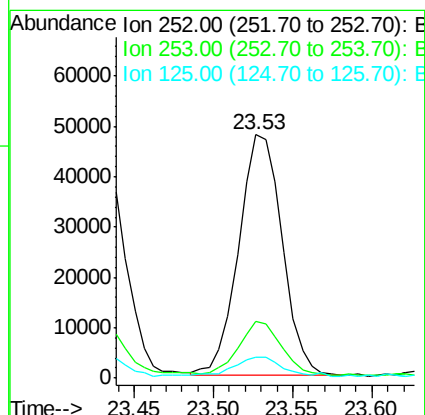
RT: 23.53 min Scan# 3475

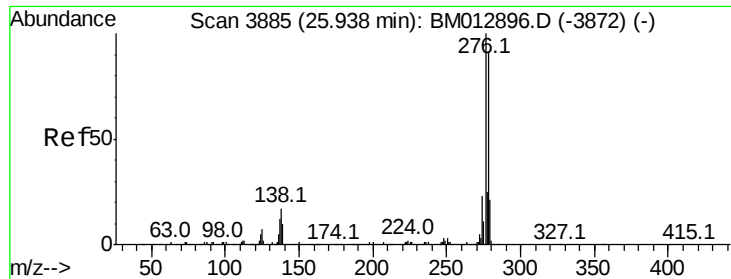
Delta R.T. -0.01 min

Lab File: BM012899.D

Acq: 11 Nov 2017 13:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 90832 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.1  | 17.2  | 25.8  |
| 125       | 8.4   | 8.2   | 12.4  |





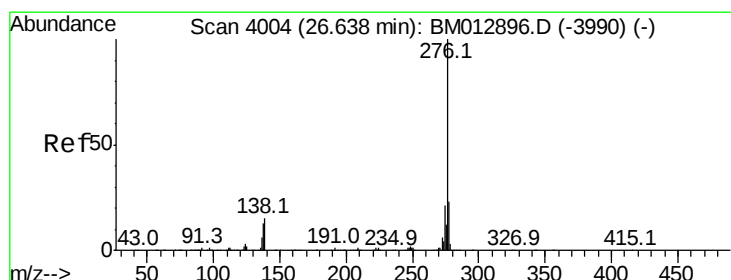
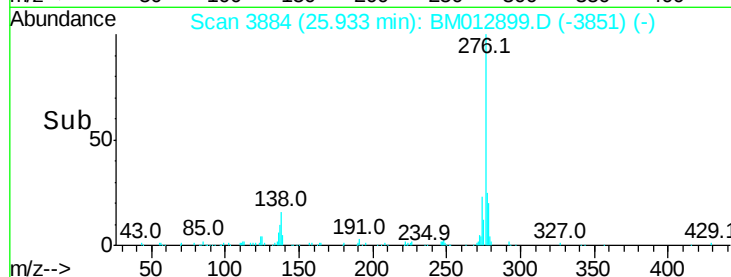
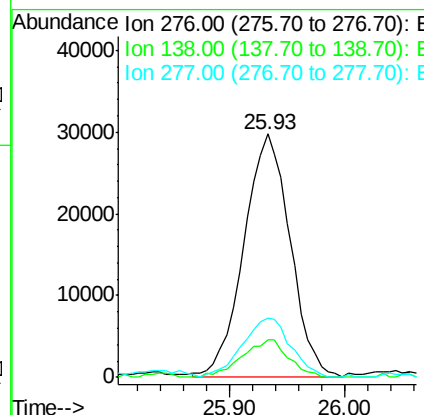
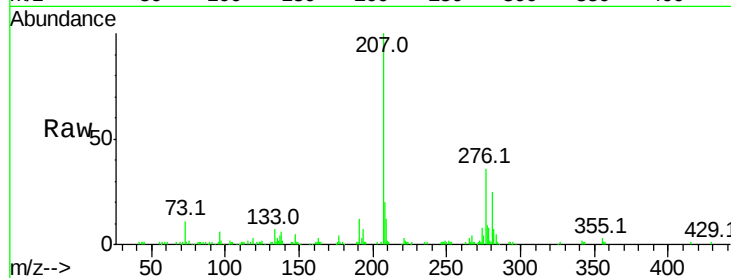
#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.610 ng/ul  
 RT: 25.93 min Scan# 3884  
 Delta R.T. -0.01 min  
 Lab File: BM012899.D  
 Acq: 11 Nov 2017 13:29

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DAHJ3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.0  | 14.4  | 21.6  |
| 277     | 24.5  | 18.0  | 27.0  |

Manual Integrations  
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#29  
 Benzo(g,h,i)perylene  
 Concen: 2.590 ng/ul  
 RT: 26.64 min Scan# 4005  
 Delta R.T. 0.01 min  
 Lab File: BM012899.D  
 Acq: 11 Nov 2017 13:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.0  | 15.3  | 22.9  |
| 277     | 23.5  | 19.0  | 28.4  |

