

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM111017\  
 Data File : BM012913.D  
 Acq On : 11 Nov 2017 21:47  
 Operator : SJ/JU  
 Sample : I6317-09MSD  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DAHJ3MSD

Manual Integrations  
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 11/13/2017 4:49:43 PM

Quant Time: Nov 13 02:58:54 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 13 02:06:47 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.79  | 152  | 83338    | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.57 | 136  | 313348   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.42 | 164  | 186021   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.17 | 188  | 438414   | 20.00  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.35 | 240  | 536806   | 20.00  | ng/ul  | 0.00     |
| 22) Perylene-d12            | 23.63 | 264  | 604424   | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 7) Acenaphthylene-d8        | 14.12 | 160  | 96731    | 5.00   | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.42 | 176  | 79674    | 6.02   | ng/ul  | 0.00     |
| 14) Anthracene-d10          | 17.27 | 188  | 137739   | 6.50   | ng/ul  | 0.00     |
| 18) Pyrene-d10              | 19.56 | 212  | 173271   | 7.21   | ng/ul  | 0.00     |
| 25) Benzo(a)pyrene-d12      | 23.48 | 264  | 201112   | 7.05   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 9) Acenaphthene             | 14.49 | 153  | 68877    | 5.463  | ng/ul  | 96       |
| 13) Phenanthrene            | 17.21 | 178  | 26634    | 1.100  | ng/ul  | 99       |
| 16) Fluoranthene            | 19.23 | 202  | 64636    | 2.170  | ng/ul# | 92       |
| 19) Pyrene                  | 19.59 | 202  | 267739   | 8.689  | ng/ul# | 95       |
| 20) Benzo(a)anthracene      | 21.33 | 228  | 49749m   | 1.506  | ng/ul  |          |
| 21) Chrysene                | 21.39 | 228  | 54159m   | 1.835  | ng/ul  |          |
| 23) Benzo(b)fluoranthene    | 22.94 | 252  | 124521   | 3.464  | ng/ul  | 96       |
| 26) Benzo(a)pyrene          | 23.53 | 252  | 62571    | 1.795  | ng/ul  | 97       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.93 | 276  | 59110    | 1.315  | ng/ul# | 92       |
| 29) Benzo(g,h,i)perylene    | 26.63 | 276  | 49914    | 1.330  | ng/ul# | 94       |

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

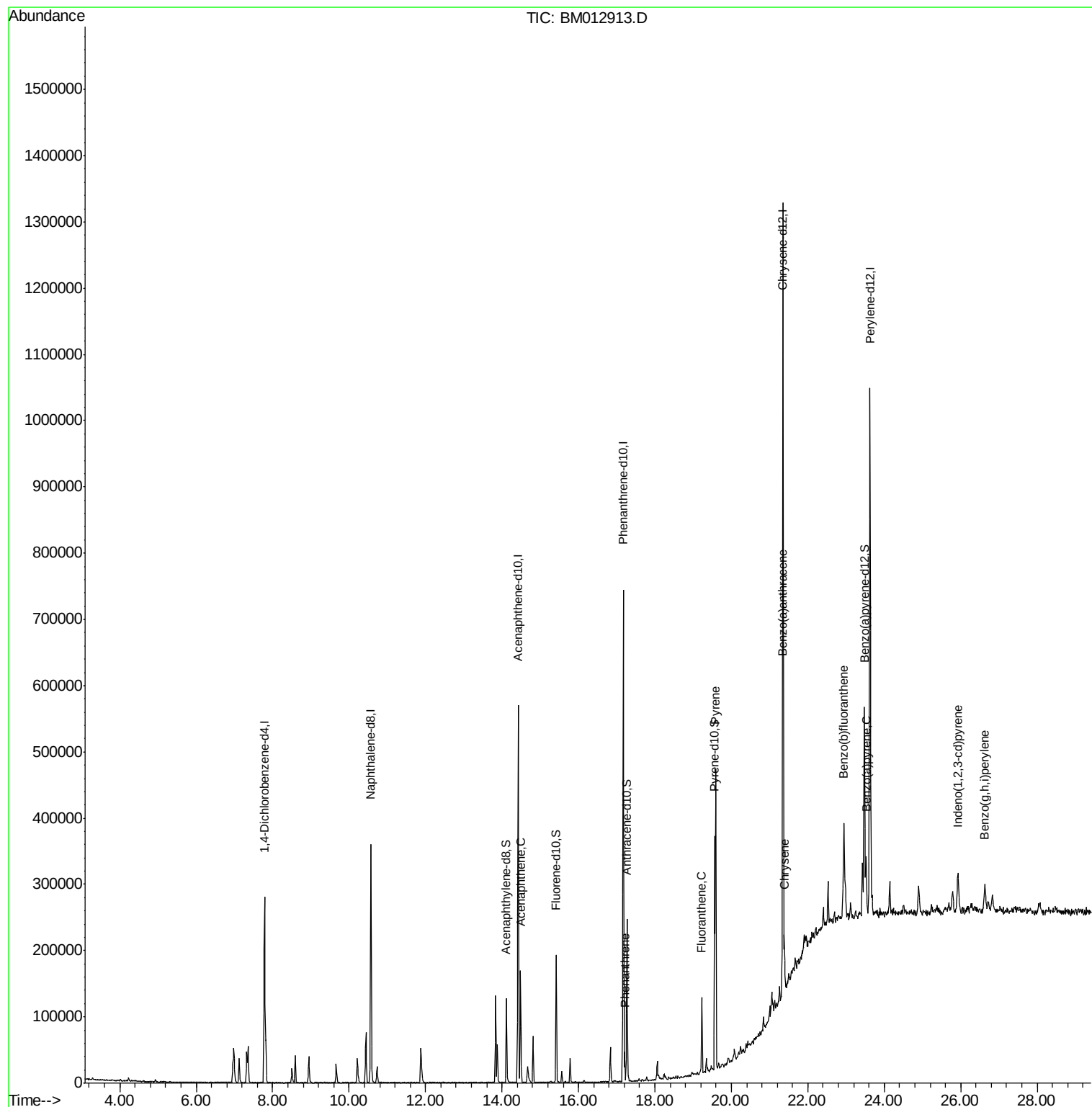
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM111017\  
Data File : BM012913.D  
Acq On : 11 Nov 2017 21:47  
Operator : SJ/JU  
Sample : I6317-09MSD  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

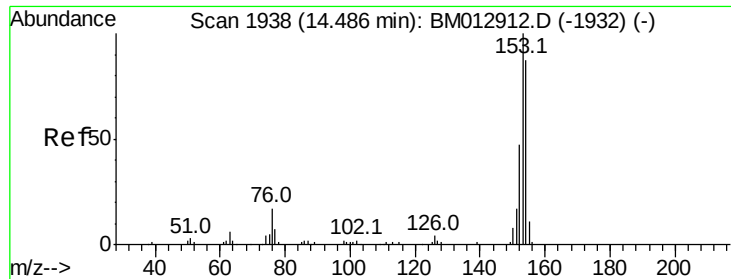
Instrument :  
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Quant Time: Nov 13 02:58:54 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111017MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Nov 13 02:06:47 2017  
Response via : Initial Calibration





#9

Acenaphthene

Concen: 5.463 ng/ul

RT: 14.49 min Scan# 1938

Delta R.T. -0.00 min

Lab File: BM012913.D

Acq: 11 Nov 2017 21:47

Instrument :

BNA\_M

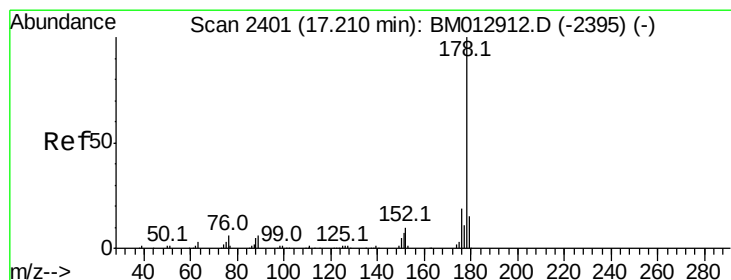
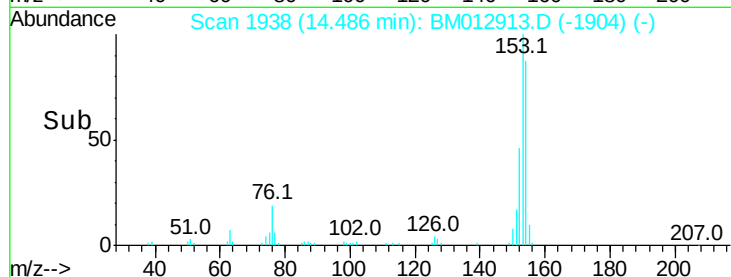
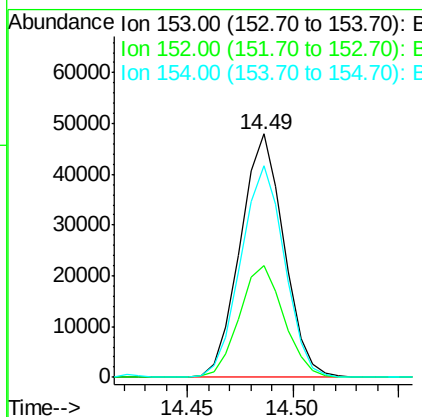
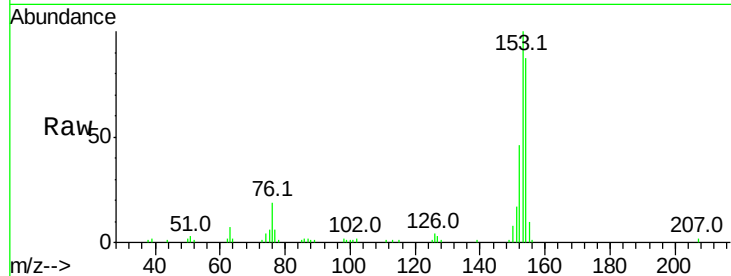
ClientSampleId :

DAHJ3MSD

|             |       |            |
|-------------|-------|------------|
| Tot Ion:153 | Resp: | 68877      |
| Ion Ratio   | Lower | Upper      |
| 153         | 100   |            |
| 152         | 46.0  | 39.0 58.6  |
| 154         | 86.8  | 66.8 100.2 |

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#13

Phenanthrene

Concen: 1.100 ng/ul

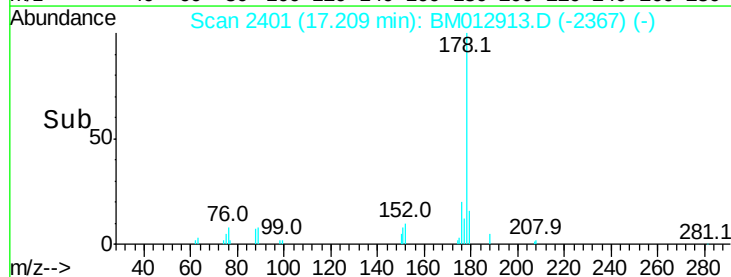
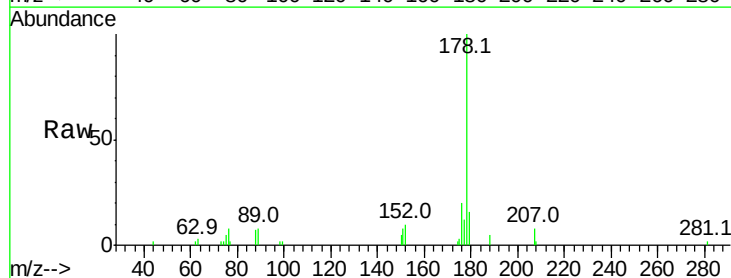
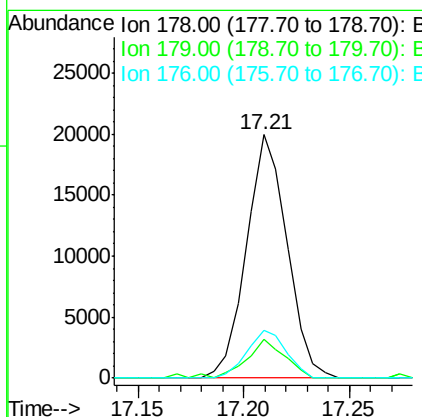
RT: 17.21 min Scan# 2401

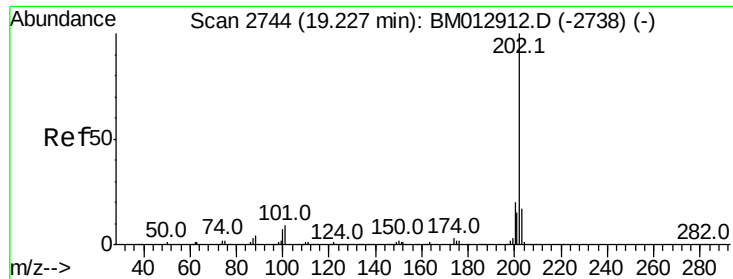
Delta R.T. -0.00 min

Lab File: BM012913.D

Acq: 11 Nov 2017 21:47

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 26634     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.7  | 12.3 18.5 |
| 176         | 19.6  | 15.1 22.7 |





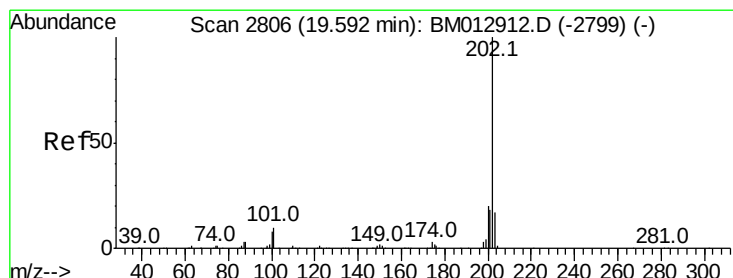
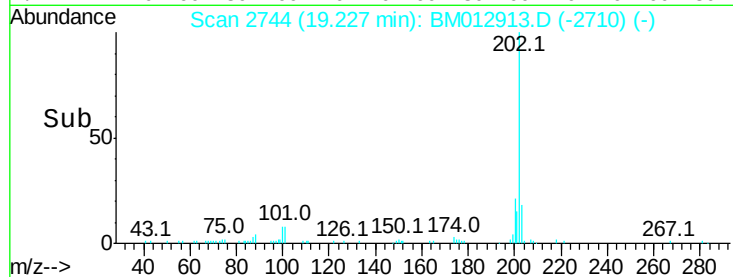
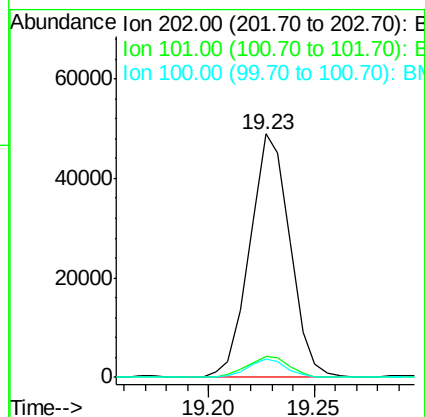
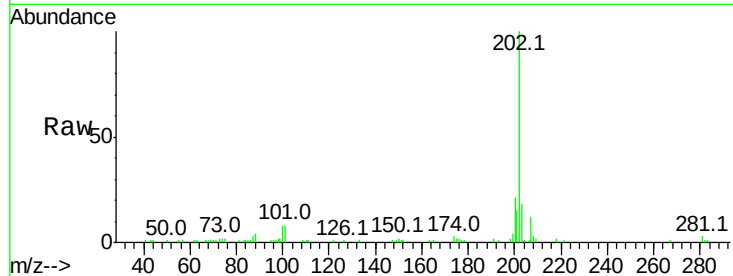
#16  
 Fluoranthene  
 Concen: 2.170 ng/ul  
 RT: 19.23 min Scan# 2744  
 Delta R.T. -0.00 min  
 Lab File: BM012913.D  
 Acq: 11 Nov 2017 21:47

Instrument :  
 BNA\_M  
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 64636 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.3   | 9.9   | 14.9# |
| 100       | 7.6   | 7.4   | 11.0  |

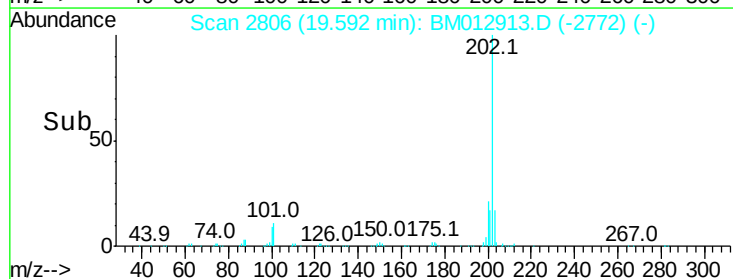
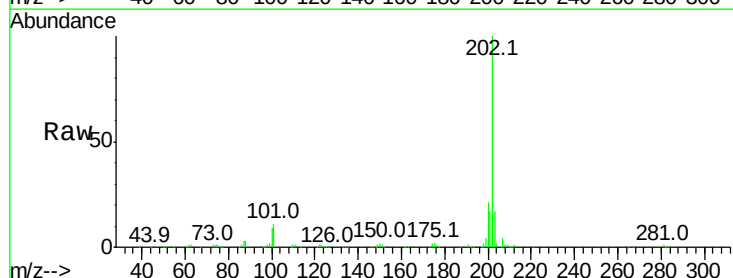
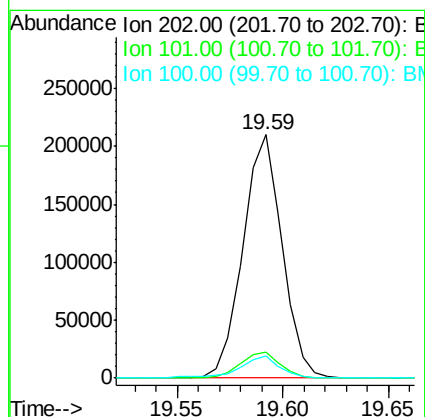
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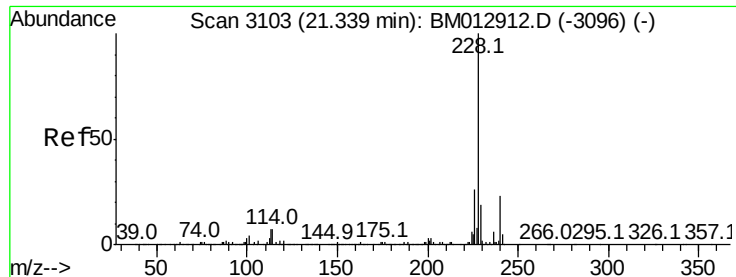
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#19  
 Pyrene  
 Concen: 8.689 ng/ul  
 RT: 19.59 min Scan# 2806  
 Delta R.T. -0.00 min  
 Lab File: BM012913.D  
 Acq: 11 Nov 2017 21:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 267739 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.8  | 11.0  | 16.4#  |
| 100       | 9.0   | 8.1   | 12.1   |





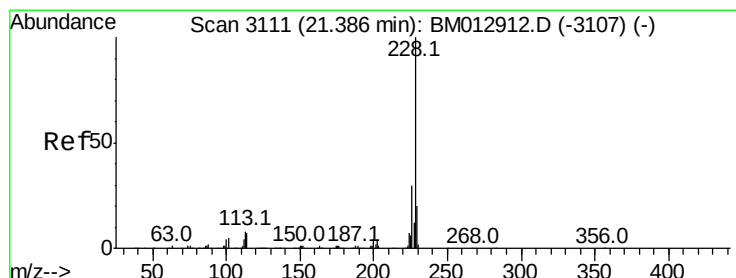
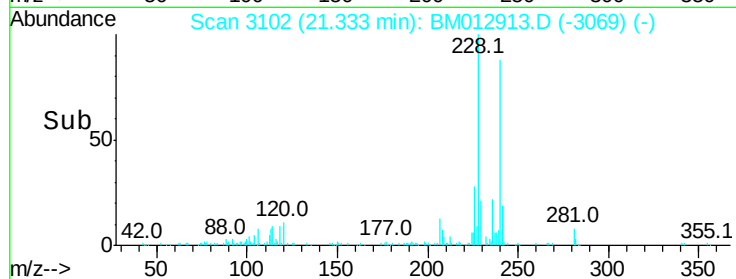
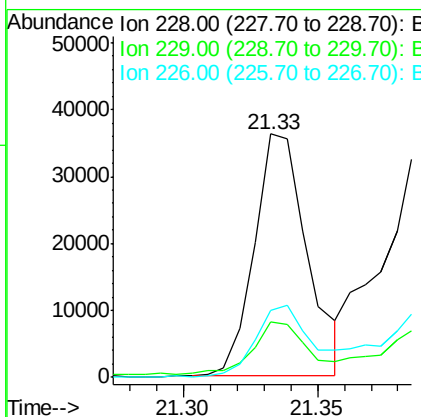
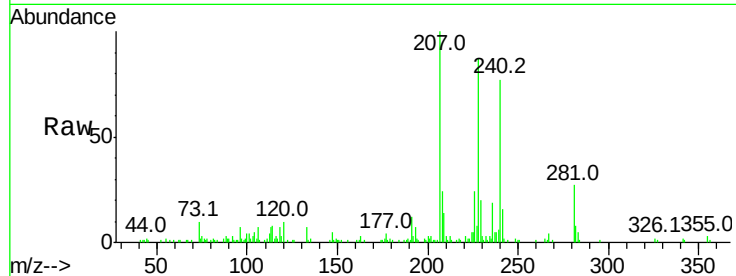
#20  
Benzo(a)anthracene  
Concen: 1.506 ng/ul m  
RT: 21.33 min Scan# 3102  
Delta R.T. -0.01 min  
Lab File: BM012913.D  
Acq: 11 Nov 2017 21:47

Instrument :  
BNA\_M  
ClientSampleId :  
DAHJ3MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.7  | 15.7  | 23.5  |
| 226     | 27.5  | 21.1  | 31.7  |

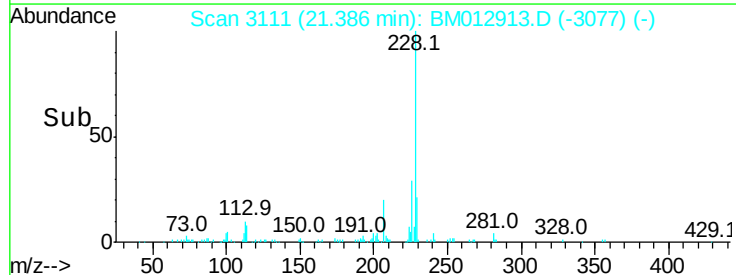
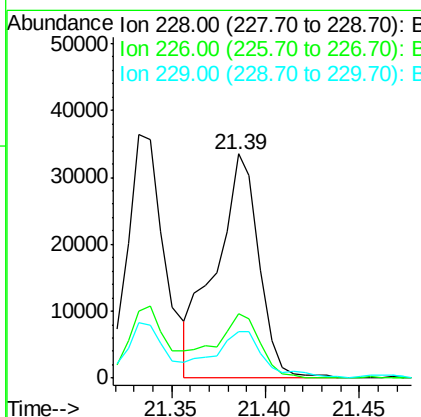
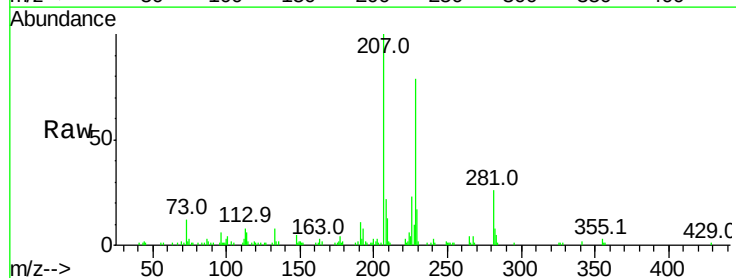
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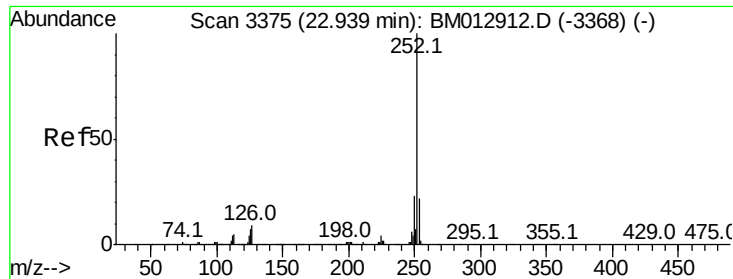
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#21  
Chrysene  
Concen: 1.835 ng/ul m  
RT: 21.39 min Scan# 3111  
Delta R.T. -0.00 min  
Lab File: BM012913.D  
Acq: 11 Nov 2017 21:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.8  | 24.5  | 36.7  |
| 229     | 20.8  | 15.8  | 23.8  |





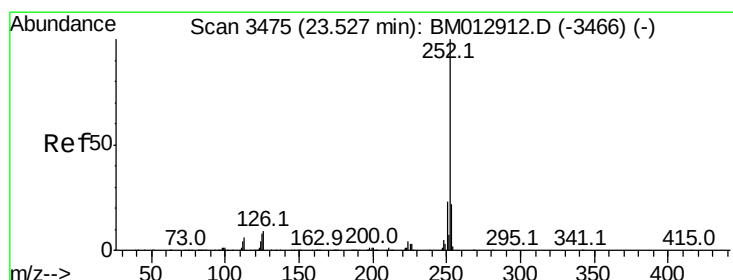
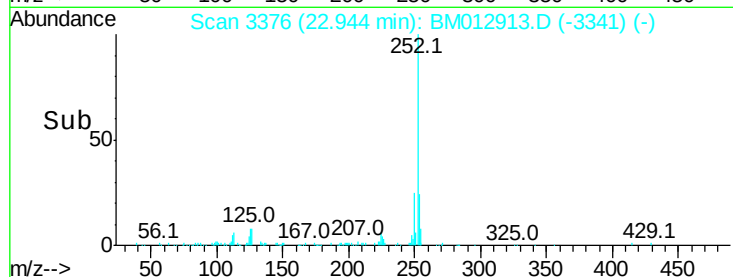
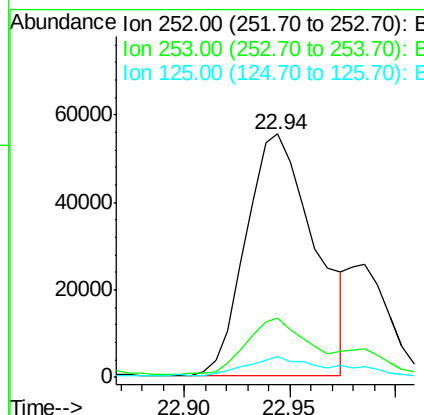
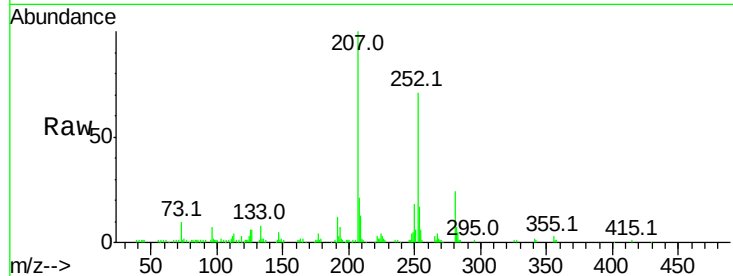
#23  
Benzo(b)fluoranthene  
Concen: 3.464 ng/ul  
RT: 22.94 min Scan# 3376  
Delta R.T. 0.01 min  
Lab File: BM012913.D  
Acq: 11 Nov 2017 21:47

Instrument :  
BNA\_M  
ClientSampleId :  
DAHJ3MSD

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 24.5  | 18.0       | 27.0  |
| 125     | 8.7   | 8.0        | 12.0  |

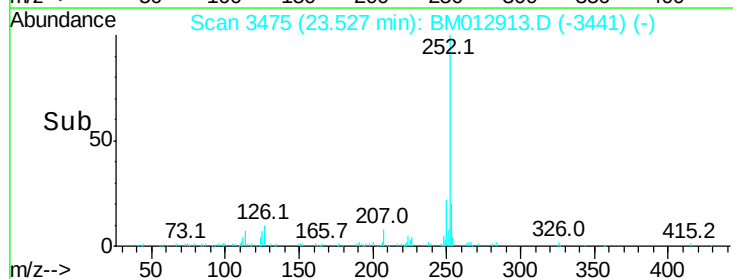
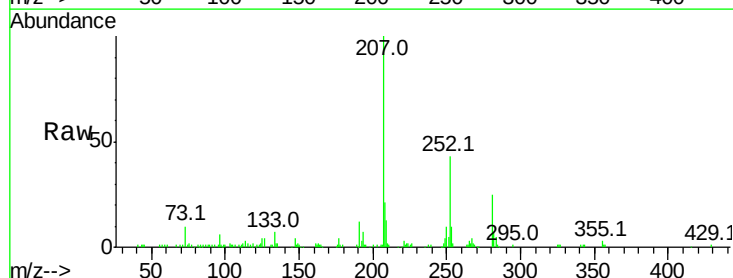
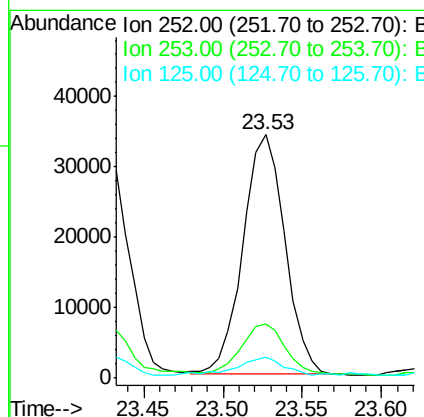
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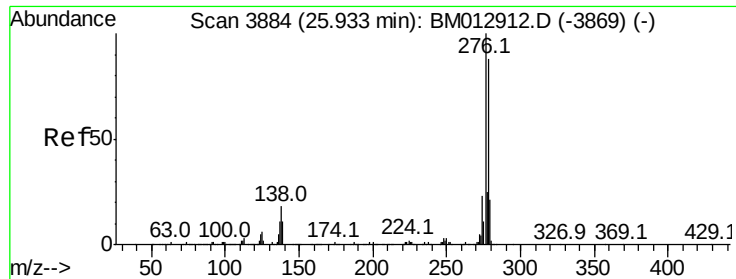
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#26  
Benzo(a)pyrene  
Concen: 1.795 ng/ul  
RT: 23.53 min Scan# 3475  
Delta R.T. -0.00 min  
Lab File: BM012913.D  
Acq: 11 Nov 2017 21:47

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 22.3  | 17.2       | 25.8  |
| 125     | 8.4   | 8.2        | 12.4  |





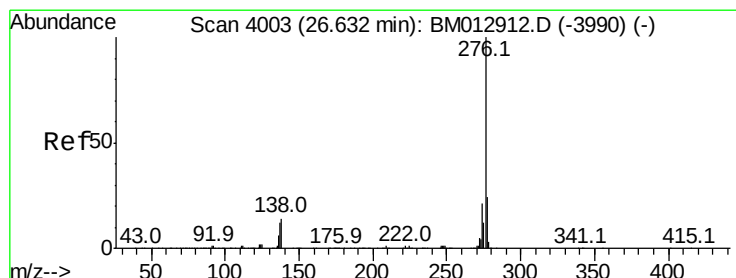
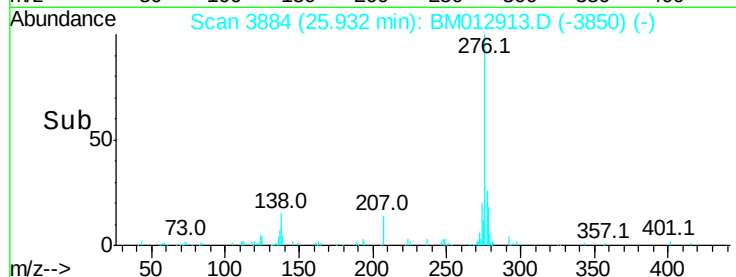
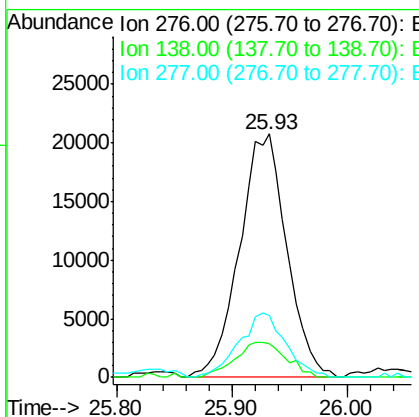
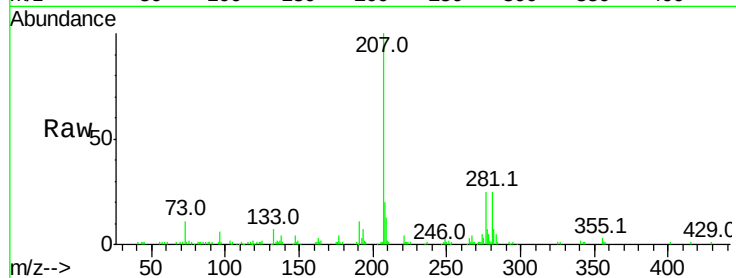
#27  
Indeno(1,2,3-cd)pyrene  
Concen: 1.315 ng/ul  
RT: 25.93 min Scan# 3884  
Delta R.T. -0.00 min  
Lab File: BM012913.D  
Acq: 11 Nov 2017 21:47

Instrument :  
BNA\_M  
ClientSampleId :  
DAHJ3MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.1  | 14.4  | 21.6# |
| 277     | 25.7  | 18.0  | 27.0  |

Manual Integrations  
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#29  
Benzo(g,h,i)perylene  
Concen: 1.330 ng/ul  
RT: 26.63 min Scan# 4003  
Delta R.T. -0.00 min  
Lab File: BM012913.D  
Acq: 11 Nov 2017 21:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 13.8  | 15.3  | 22.9# |
| 277     | 24.6  | 19.0  | 28.4  |

