

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\  
 Data File : BM023252.D  
 Acq On : 18 Oct 2019 11:15  
 Operator : JU  
 Sample : K5235-15DL 2X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 BEPB5DL

Manual Integrations  
 APPROVED

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 10/20/2019 8:07:27 PM

Quant Time: Oct 18 15:34:45 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101419MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Oct 18 07:48:41 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 470092   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.44 | 136  | 1852234  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.30 | 164  | 1204972  | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.05 | 188  | 2549076  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.24 | 240  | 2655997  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.46 | 264  | 3207373  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.17  | 96  | 16162   | 1.51  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.83  | 99  | 314293  | 7.68  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67  | 183391  | 7.92  | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.19  | 132 | 265652  | 8.48  | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.36  | 113 | 238150  | 7.24  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.80  | 128 | 122078  | 9.74  | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.52  | 143 | 132861  | 11.13 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.06 | 165 | 268110  | 8.84  | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.57 | 131 | 219949  | 5.96  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.72 | 166 | 820410  | 8.88  | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.99 | 160 | 963552  | 8.90  | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.50 | 143 | 92751   | 6.20  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.30 | 176 | 727300  | 9.24  | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.42 | 200 | 60643   | 6.00  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.14 | 188 | 1130927 | 9.20  | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.44 | 212 | 1280146 | 9.95  | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.31 | 264 | 1528697 | 9.40  | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 6) Phenol                      | 6.86  | 94  | 49454   | 1.171  | ng/ul 98  |
| 45) Dimethylphthalate          | 13.77 | 163 | 274918  | 2.974  | ng/ul 99  |
| 70) Phenanthrene               | 17.09 | 178 | 639719  | 4.472  | ng/ul 98  |
| 72) Anthracene                 | 17.18 | 178 | 200685  | 1.358  | ng/ul 99  |
| 77) Fluoranthene               | 19.11 | 202 | 1549517 | 9.108  | ng/ul 100 |
| 80) Pyrene                     | 19.47 | 202 | 1826587 | 10.978 | ng/ul 99  |
| 83) Benzo(a)anthracene         | 21.23 | 228 | 1103976 | 6.134  | ng/ul 97  |
| 84) Bis(2-ethylhexyl)phthalate | 21.19 | 149 | 2654716 | 28.850 | ng/ul 99  |
| 85) Chrysene                   | 21.28 | 228 | 1136213 | 6.799  | ng/ul 98  |
| 88) Benzo(b)fluoranthene       | 22.80 | 252 | 1453136 | 7.472  | ng/ul 98  |
| 89) Benzo(k)fluoranthene       | 22.83 | 252 | 373268m | 1.999  | ng/ul     |
| 91) Benzo(a)pyrene             | 23.36 | 252 | 1112053 | 5.960  | ng/ul 98  |
| 92) Indeno(1,2,3-cd)pyrene     | 25.67 | 276 | 694306  | 3.128  | ng/ul 97  |
| 93) Dibenzo(a,h)anthracene     | 25.67 | 278 | 207879  | 1.120  | ng/ul# 82 |
| 94) Benzo(g,h,i)perylene       | 26.34 | 276 | 714283  | 3.909  | ng/ul 98  |

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

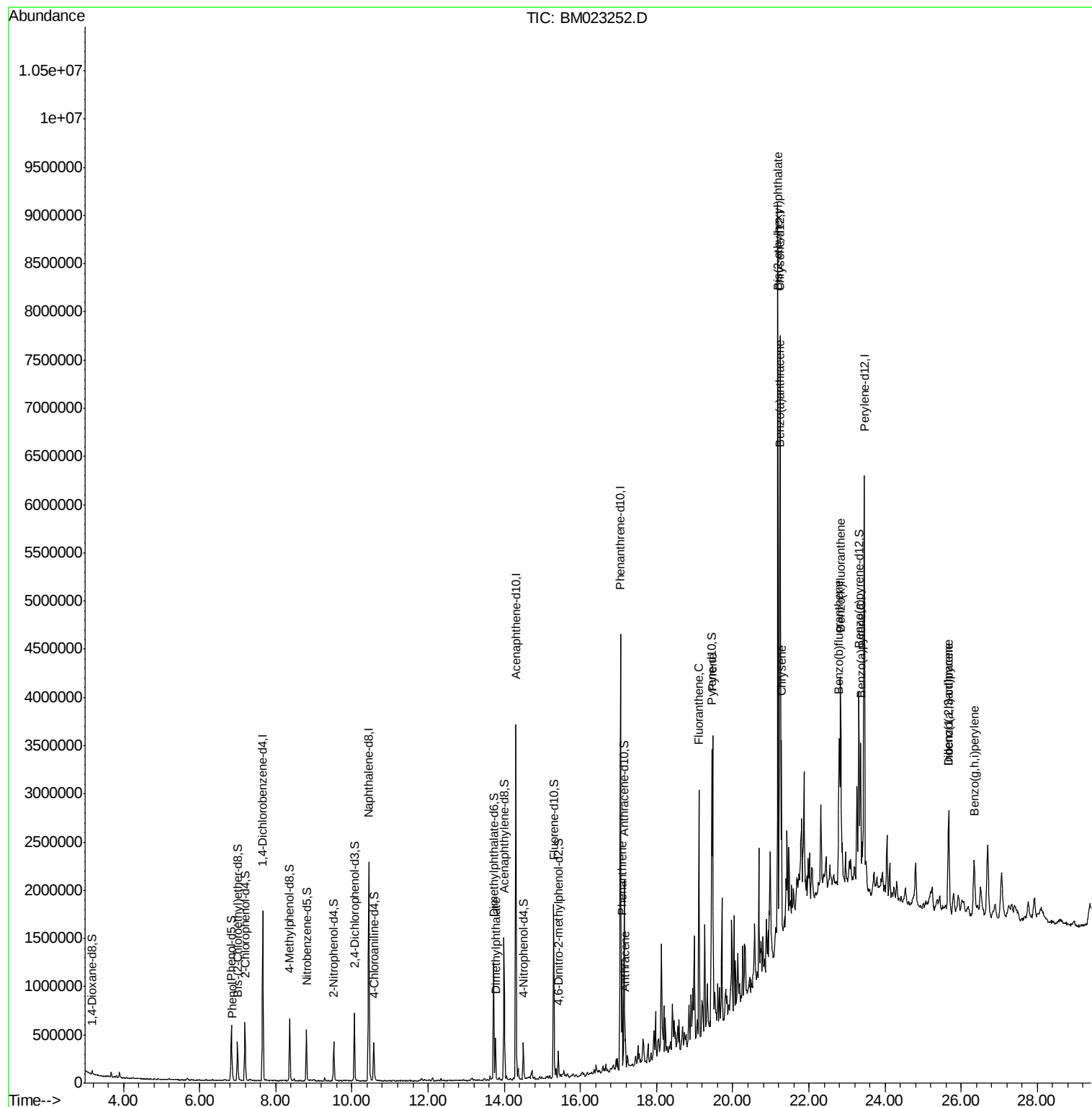
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\  
Data File : BM023252.D  
Acq On : 18 Oct 2019 11:15  
Operator : JU  
Sample : K5235-15DL 2X  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

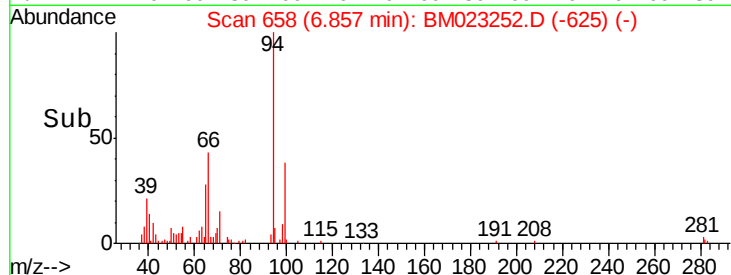
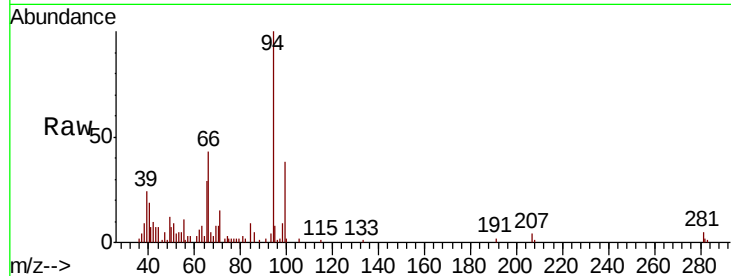
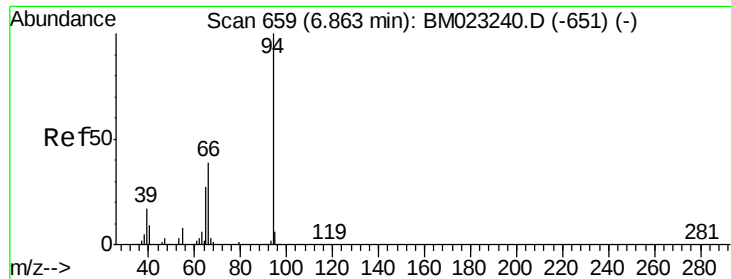
Instrument :  
BNA\_M  
ClientSampled :  
BEPB5DL

Manual Integrations  
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Quant Time: Oct 18 15:34:45 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101419MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Oct 18 07:48:41 2019  
Response via : Initial Calibration





#6

Phenol

Concen: 1.171 ng/ul

RT: 6.86 min Scan# 658

Delta R.T. -0.01 min

Lab File: BM023252.D

Acq: 18 Oct 2019 11:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 94    | Resp: | 49454 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 28.9  | 23.7  | 35.5  |
| 66        | 43.0  | 32.9  | 49.3  |

Instrument :

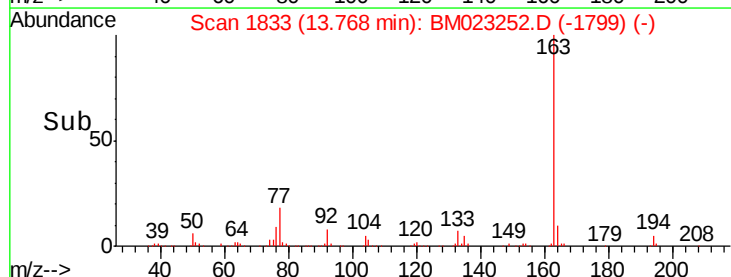
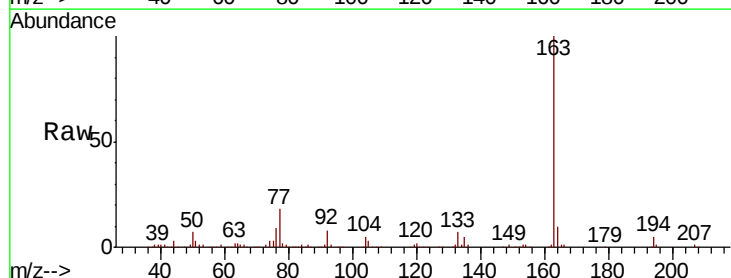
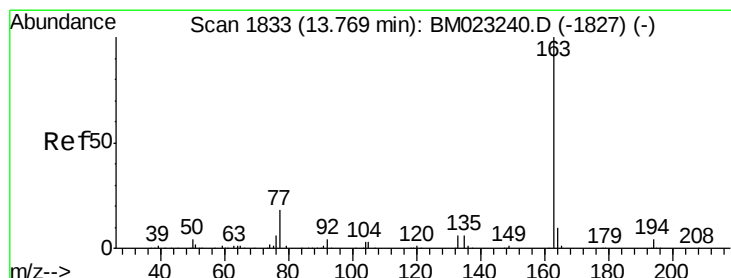
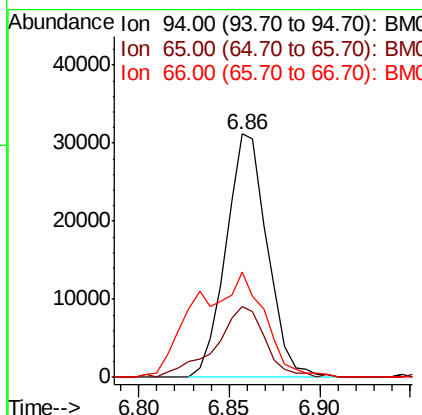
BNA\_M

ClientSampleId :

BEPB5DL

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#45

Dimethylphthalate

Concen: 2.974 ng/ul

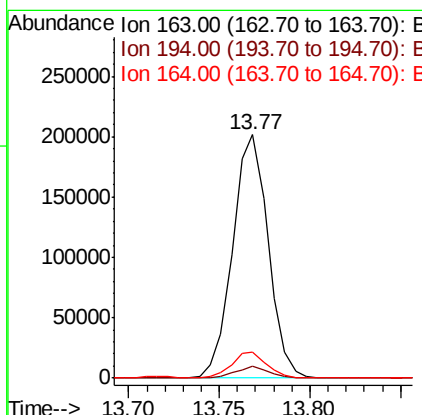
RT: 13.77 min Scan# 1833

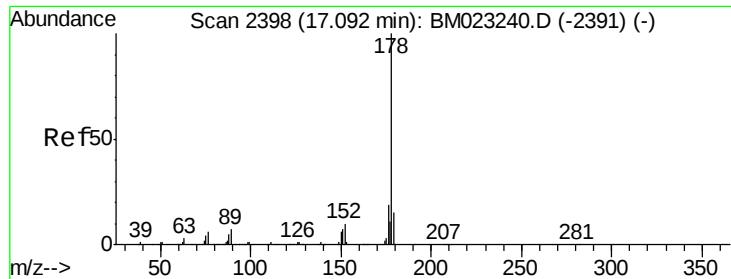
Delta R.T. -0.00 min

Lab File: BM023252.D

Acq: 18 Oct 2019 11:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 274918 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.7   | 3.5   | 5.3    |
| 164       | 10.5  | 8.0   | 12.0   |





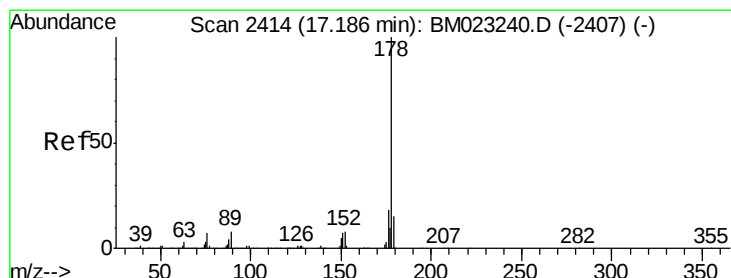
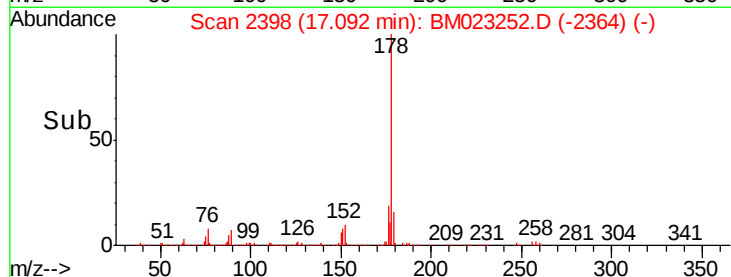
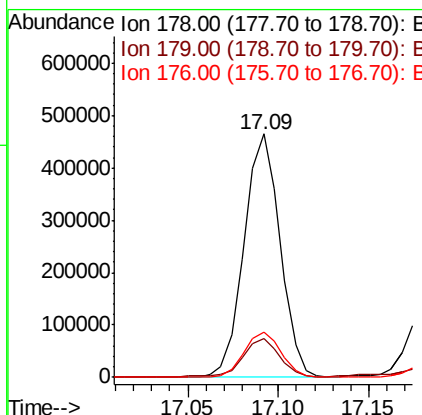
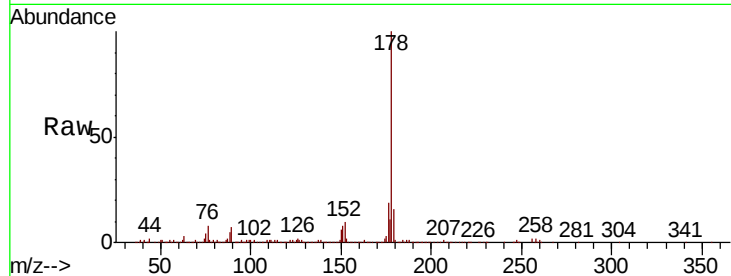
#70  
Phenanthrene  
Concen: 4.472 ng/ul  
RT: 17.09 min Scan# 2398  
Delta R.T. -0.00 min  
Lab File: BM023252.D  
Acq: 18 Oct 2019 11:15

Instrument :  
BNA\_M  
ClientSampleId :  
BEPB5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.0  | 12.3  | 18.5  |
| 176     | 18.6  | 15.5  | 23.3  |

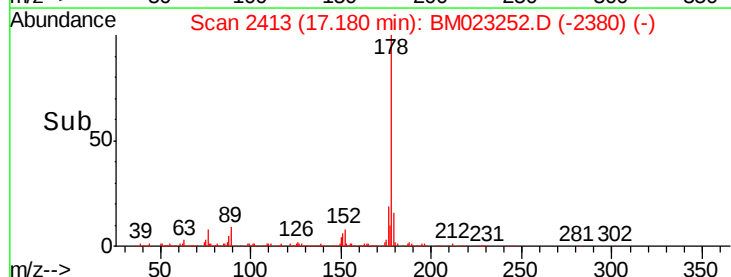
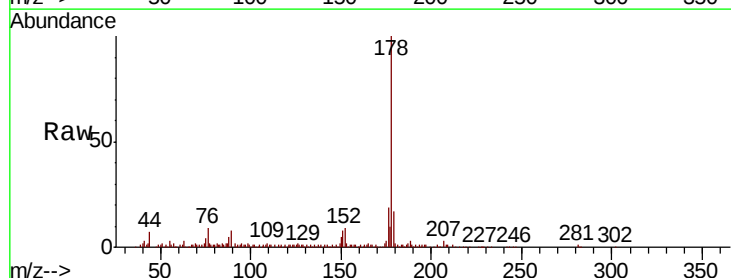
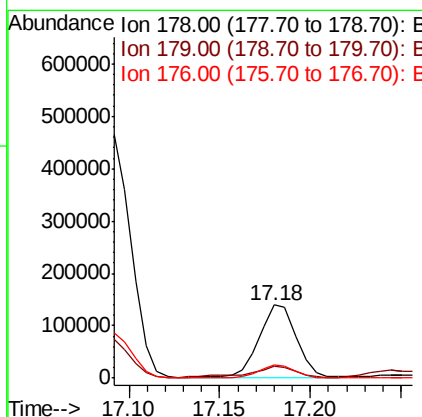
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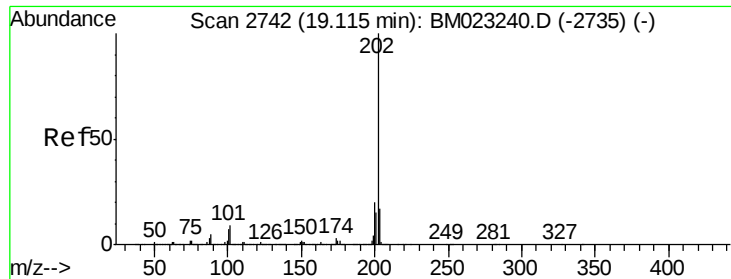
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#72  
Anthracene  
Concen: 1.358 ng/ul  
RT: 17.18 min Scan# 2413  
Delta R.T. -0.01 min  
Lab File: BM023252.D  
Acq: 18 Oct 2019 11:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.5  | 12.3  | 18.5  |
| 176     | 18.9  | 15.0  | 22.4  |





#77

Fluoranthene

Concen: 9.108 ng/ul

RT: 19.11 min Scan# 2741

Delta R.T. -0.01 min

Lab File: BM023252.D

Acq: 18 Oct 2019 11:15

Instrument :

BNA\_M

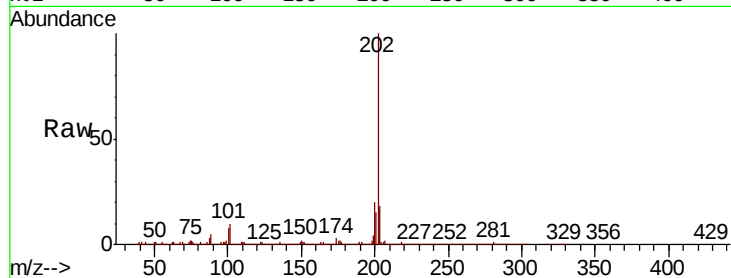
ClientSampleId :

BEPB5DL

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1549517 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 9.8   | 7.8   | 11.8    |
| 100       | 7.7   | 6.1   | 9.1     |

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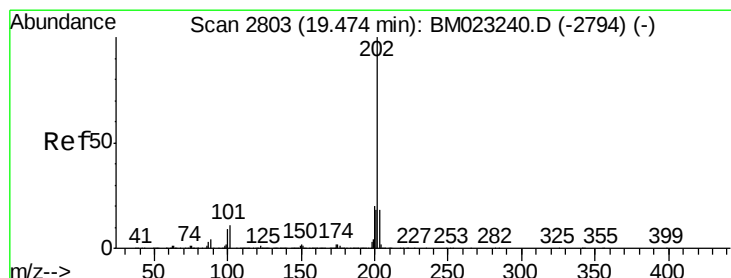
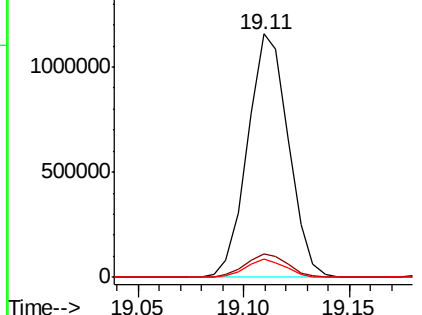
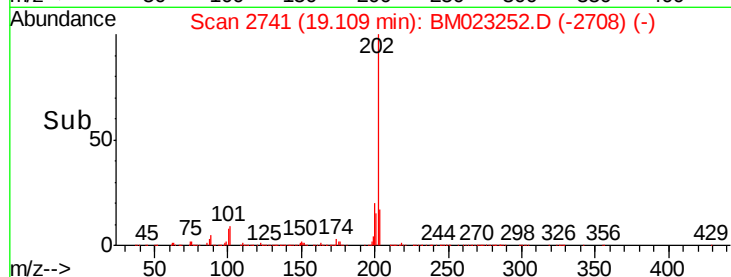


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#80

Pyrene

Concen: 10.978 ng/ul

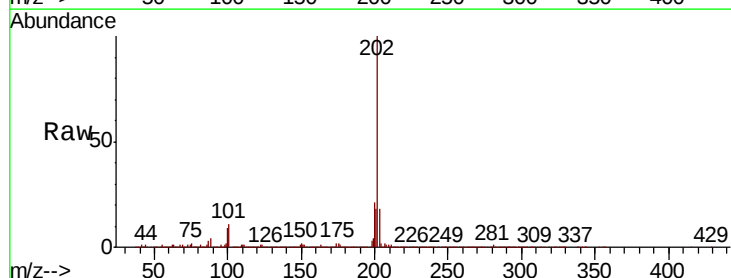
RT: 19.47 min Scan# 2803

Delta R.T. -0.00 min

Lab File: BM023252.D

Acq: 18 Oct 2019 11:15

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1826587 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 11.1  | 9.1   | 13.7    |
| 100       | 9.3   | 7.5   | 11.3    |

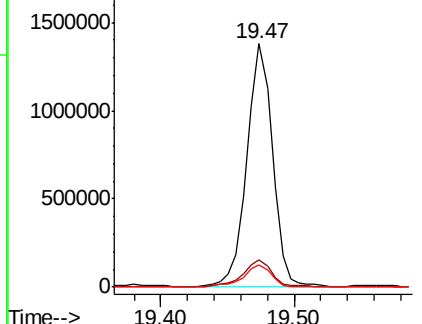
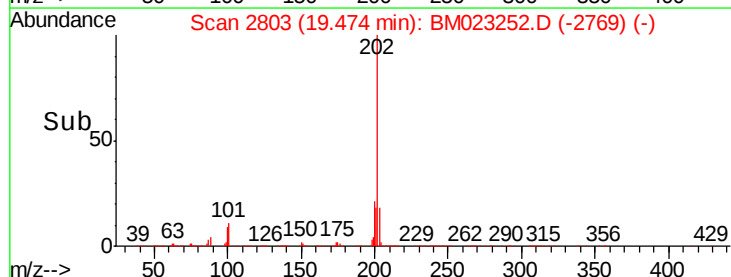


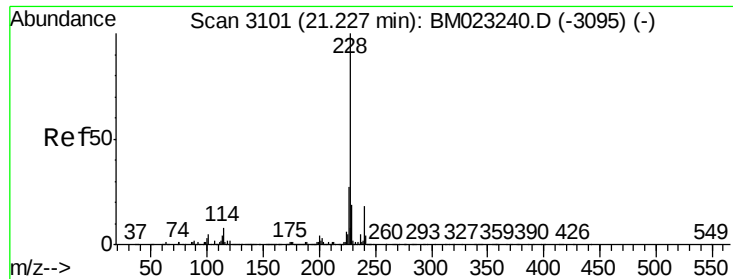
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





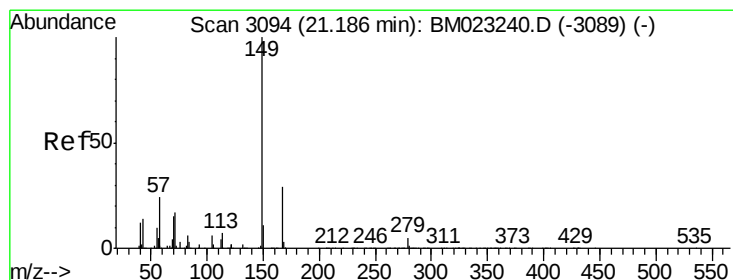
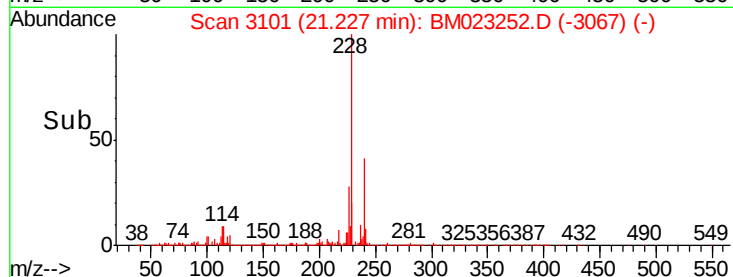
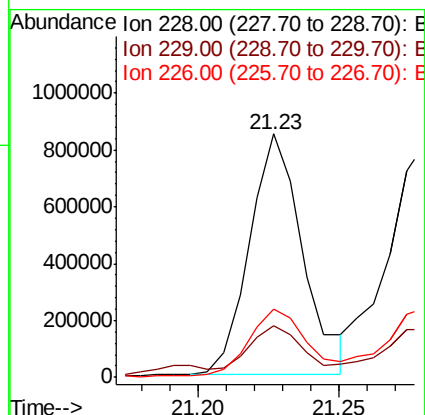
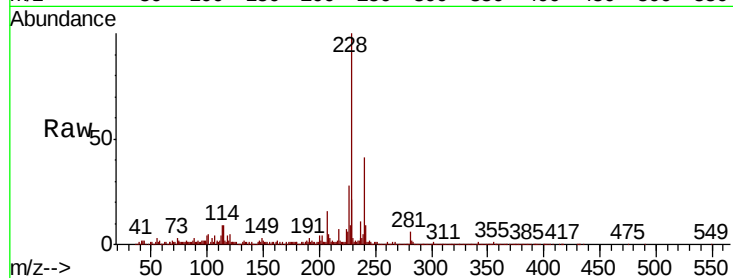
#83  
Benzo(a)anthracene  
Concen: 6.134 ng/ul  
RT: 21.23 min Scan# 3101  
Delta R.T. -0.00 min  
Lab File: BM023252.D  
Acq: 18 Oct 2019 11:15

Instrument :  
BNA\_M  
ClientSampleId :  
BEPB5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.2  | 15.7  | 23.5  |
| 226     | 28.1  | 21.6  | 32.4  |

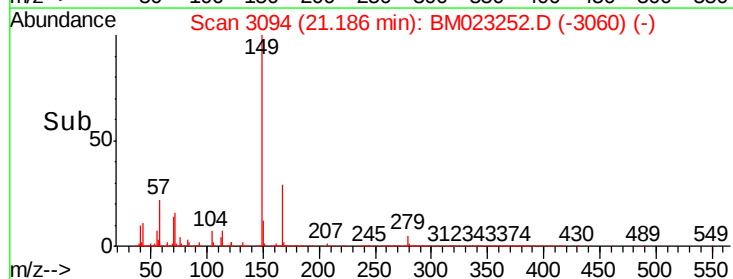
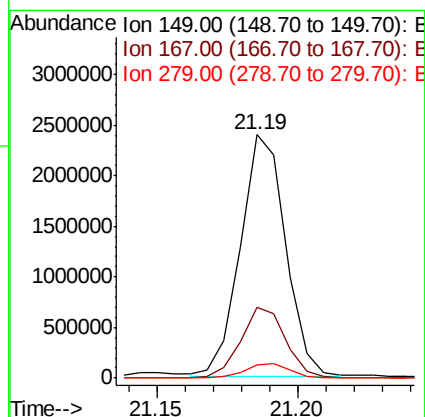
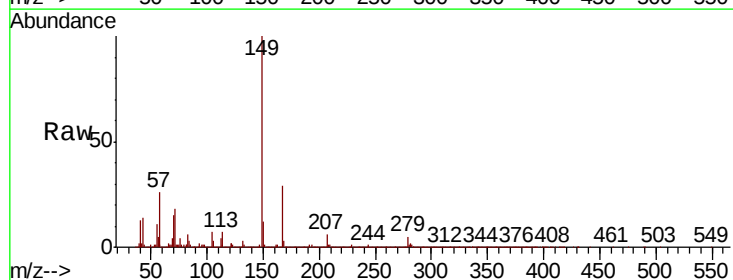
Manual Integrations  
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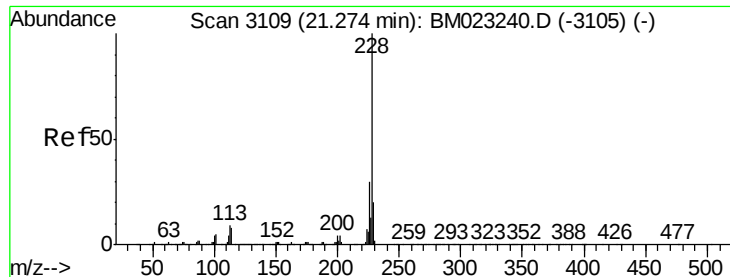
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10/20/2019 8:07:27 PM



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 28.850 ng/ul  
RT: 21.19 min Scan# 3094  
Delta R.T. -0.00 min  
Lab File: BM023252.D  
Acq: 18 Oct 2019 11:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.9  | 22.5  | 33.7  |
| 279     | 5.3   | 4.0   | 6.0   |





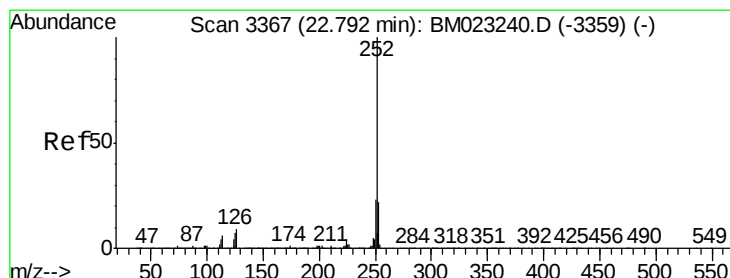
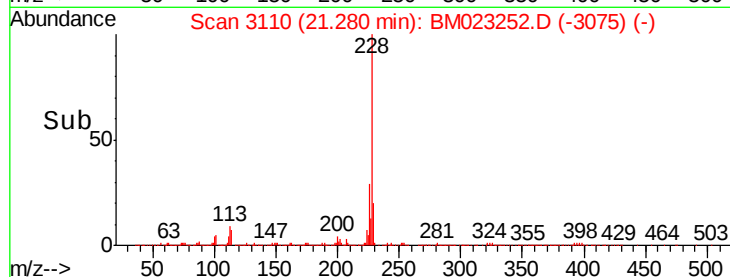
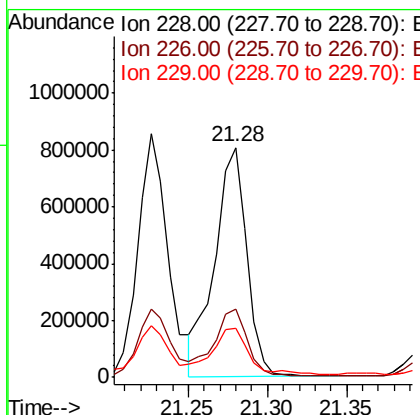
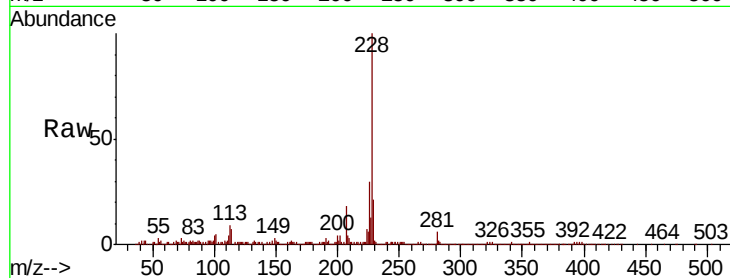
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Chrysene  
Concen: 6.799 ng/ul  
RT: 21.28 min Scan# 3110  
Delta R.T. 0.01 min  
Lab File: BM023252.D  
Acq: 18 Oct 2019 11:15

Instrument :  
BNA\_M  
ClientSampleId :  
BEPB5DL

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 228     | 100  |       |       |       |
| 226     | 29.6 | 23.8  | 35.6  |       |
| 229     | 21.3 | 15.5  | 23.3  |       |

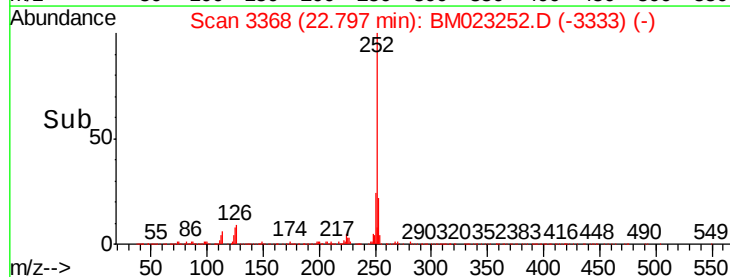
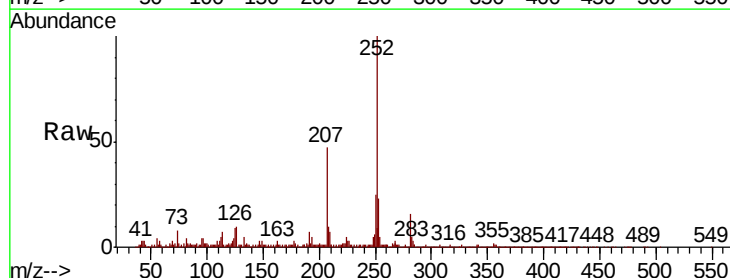
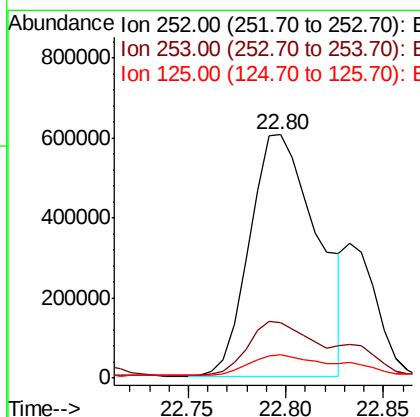
Manual Integrations  
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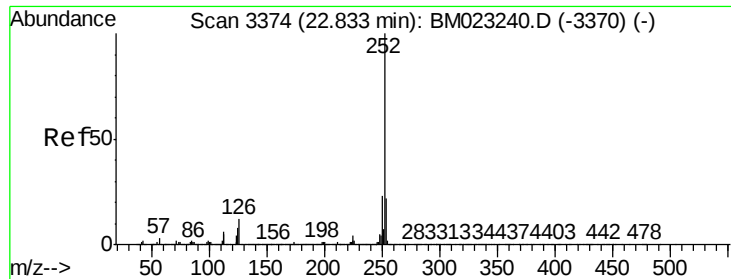
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#88  
Benzo(b)fluoranthene  
Concen: 7.472 ng/ul  
RT: 22.80 min Scan# 3368  
Delta R.T. 0.01 min  
Lab File: BM023252.D  
Acq: 18 Oct 2019 11:15

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 252     | 100  |       |       |       |
| 253     | 22.7 | 17.6  | 26.4  |       |
| 125     | 9.4  | 6.4   | 9.6   |       |





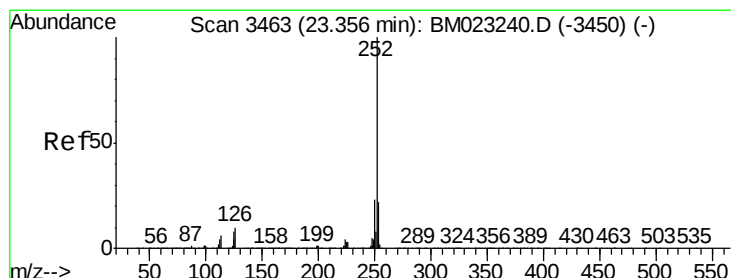
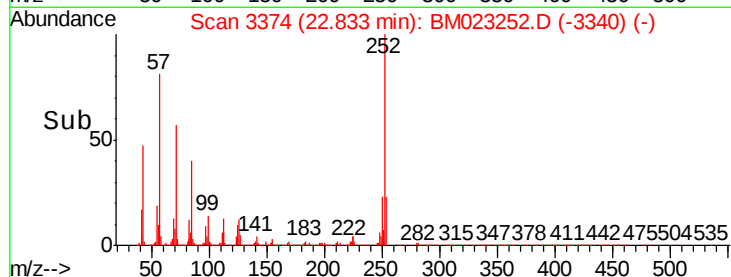
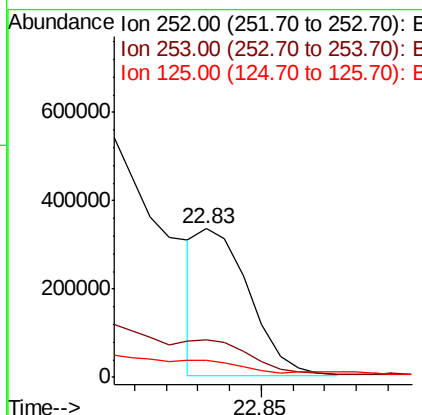
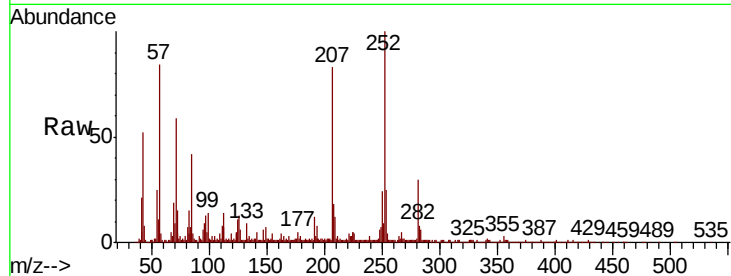
#89  
Benzo(k)fluoranthene  
Concen: 1.999 ng/ul m  
RT: 22.83 min Scan# 3374  
Delta R.T. -0.00 min  
Lab File: BM023252.D  
Acq: 18 Oct 2019 11:15

Instrument :  
BNA\_M  
ClientSampleId :  
BEPB5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.5  | 17.4  | 26.0  |
| 125     | 11.5  | 6.5   | 9.7   |

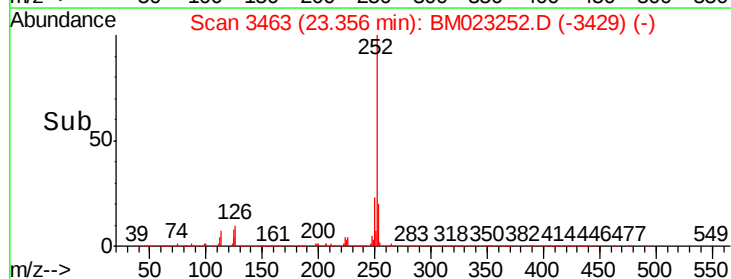
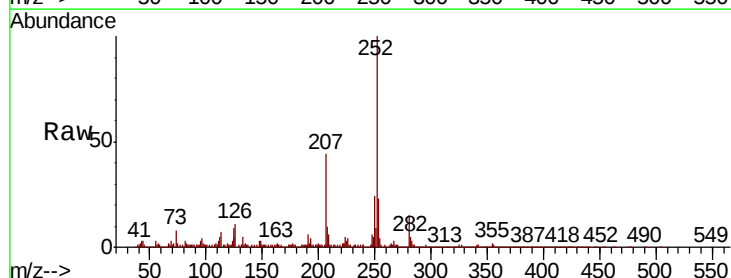
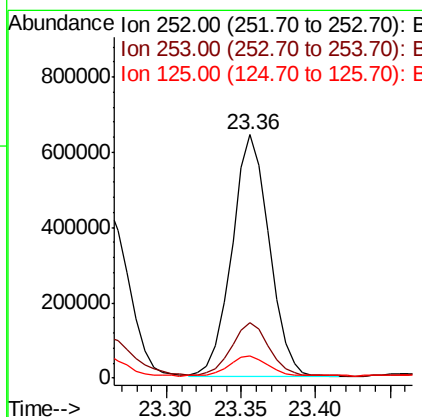
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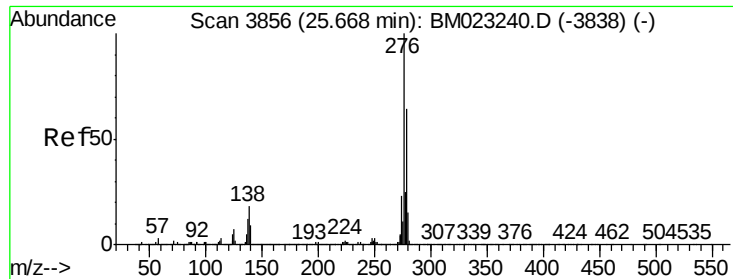
mohammad  
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#91  
Benzo(a)pyrene  
Concen: 5.960 ng/ul  
RT: 23.36 min Scan# 3463  
Delta R.T. -0.00 min  
Lab File: BM023252.D  
Acq: 18 Oct 2019 11:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.2  | 25.8  |
| 125     | 9.2   | 7.4   | 11.0  |





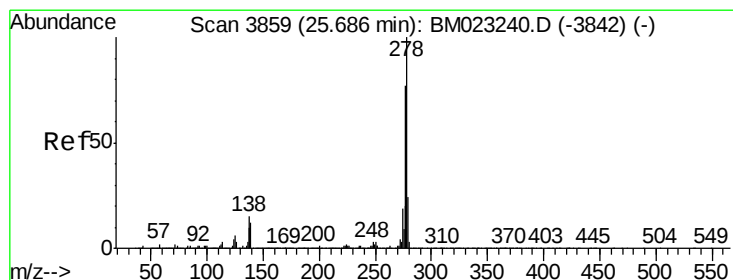
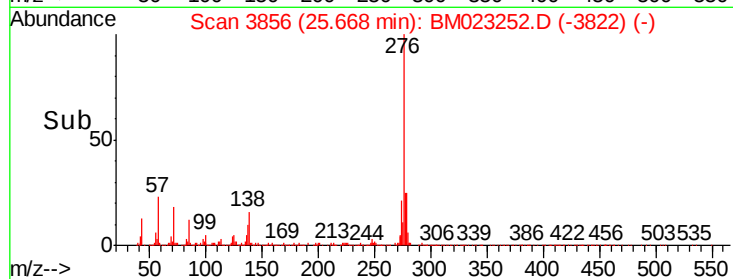
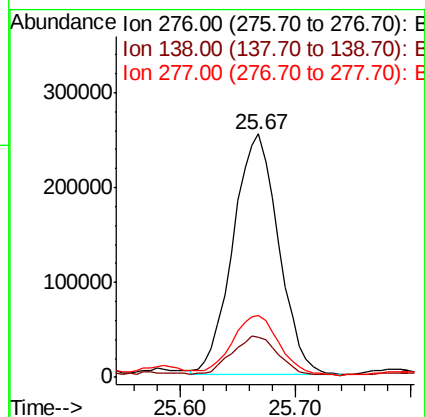
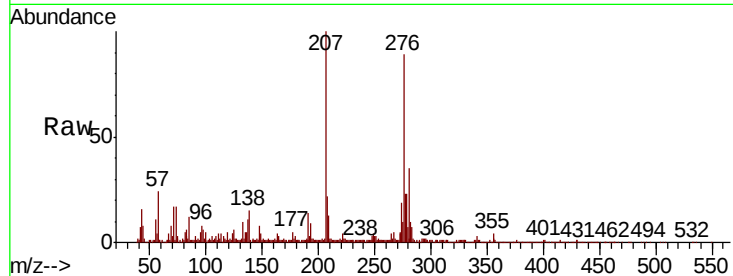
#92  
Indeno(1,2,3-cd)pyrene  
Concen: 3.128 ng/ul  
RT: 25.67 min Scan# 3856  
Delta R.T. -0.00 min  
Lab File: BM023252.D  
Acq: 18 Oct 2019 11:15

Instrument :  
BNA\_M  
ClientSampleId :  
BEPB5DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 694306 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 16.5  | 14.9  | 22.3   |
| 277       | 25.6  | 19.8  | 29.8   |

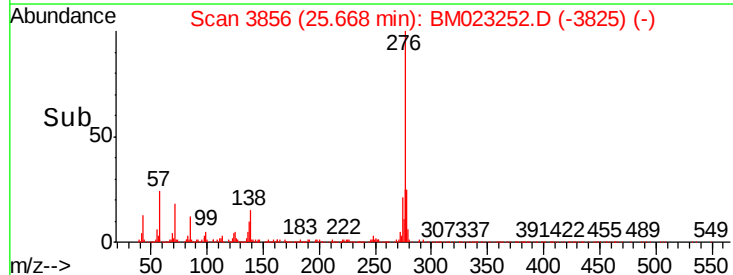
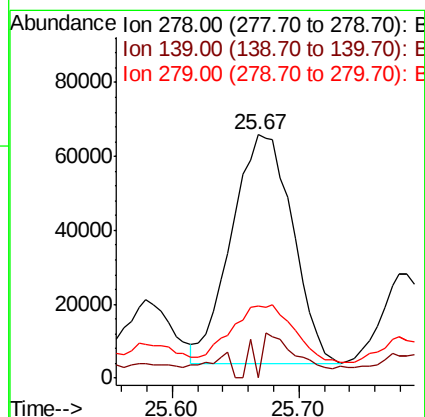
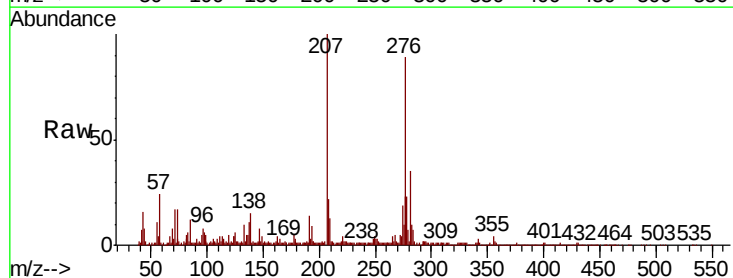
Manual Integrations  
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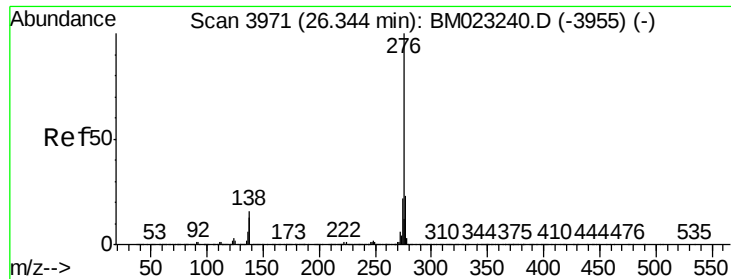
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#93  
Dibenzo(a,h)anthracene  
Concen: 1.120 ng/ul  
RT: 25.67 min Scan# 3856  
Delta R.T. -0.02 min  
Lab File: BM023252.D  
Acq: 18 Oct 2019 11:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 207879 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 0.0   | 10.0  | 15.0#  |
| 279       | 29.9  | 19.4  | 29.0#  |





#94

Benzo(a,h,i)perylene

Concen: 3.909 ng/ul

RT: 26.34 min Scan# 3970

Delta R.T. -0.01 min

Lab File: BM023252.D

Acq: 18 Oct 2019 11:15

Instrument :

BNA\_M

ClientSampleId :

BEPB5DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 714283 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 16.5  | 14.4  | 21.6   |
| 277       | 24.0  | 19.4  | 29.2   |

Manual Integrations  
APPROVED

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