

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061319\  
 Data File : BM020934.D  
 Acq On : 13 Jun 2019 18:39  
 Operator : HP/JU  
 Sample : AR1248 50PPM  
 Misc : GCMS CONFIRMATION  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Jun 14 02:29:06 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM060619MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Jun 09 01:02:58 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 0.00  | 152  | 0        | 0.00  | ng/ul | -7.81    |
| 18) Naphthalene-d8        | 0.00  | 136  | 0        | 0.00  | ng/ul | -10.60   |
| 35) Acenaphthene-d10      | 0.00  | 164  | 0        | 0.00  | ng/ul | -14.45   |
| 61) Phenanthrene-d10      | 17.18 | 188  | 371      | 20.00 | ng/ul | -0.01    |
| 77) Chrysene-d12          | 21.37 | 240  | 2123     | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.65 | 264  | 1294     | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |      |       |       |       |
|--------------------------------|-------|-----|------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.29  | 96  | 396  | 0.00  | ng/uL | -0.02 |
| 5) Phenol-d5                   | 0.00  | 99  | 0    | 0.00  | ng/ul |       |
| 7) Bis-(2-Chloroethyl)ether-d  | 0.00  | 67  | 0    | 0.00  | ng/ul |       |
| 9) 2-Chlorophenol-d4           | 0.00  | 132 | 0    | 0.00  | ng/ul |       |
| 13) 4-Methylphenol-d8          | 0.00  | 113 | 0    | 0.00  | ng/ul |       |
| 19) Nitrobenzene-d5            | 0.00  | 128 | 0    | 0.00  | ng/ul |       |
| 22) 2-Nitrophenol-d4           | 0.00  | 143 | 0    | 0.00  | ng/ul |       |
| 26) 2,4-Dichlorophenol-d3      | 0.00  | 165 | 0    | 0.00  | ng/ul |       |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0    | 0.00  | ng/ul |       |
| 43) Dimethylphthalate-d6       | 0.00  | 166 | 0    | 0.00  | ng/ul |       |
| 46) Acenaphthylene-d8          | 0.00  | 160 | 0    | 0.00  | ng/ul |       |
| 51) 4-Nitrophenol-d4           | 0.00  | 143 | 0    | 0.00  | ng/ul |       |
| 57) Fluorene-d10               | 0.00  | 176 | 0    | 0.00  | ng/ul |       |
| 62) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0    | 0.00  | ng/ul |       |
| 70) Anthracene-d10             | 17.21 | 188 | 433  | 26.72 | ng/ul | -0.08 |
| 78) Pyrene-d10                 | 19.58 | 212 | 1023 | 9.97  | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.50 | 264 | 1739 | 29.57 | ng/ul | -0.01 |

## Target Compounds

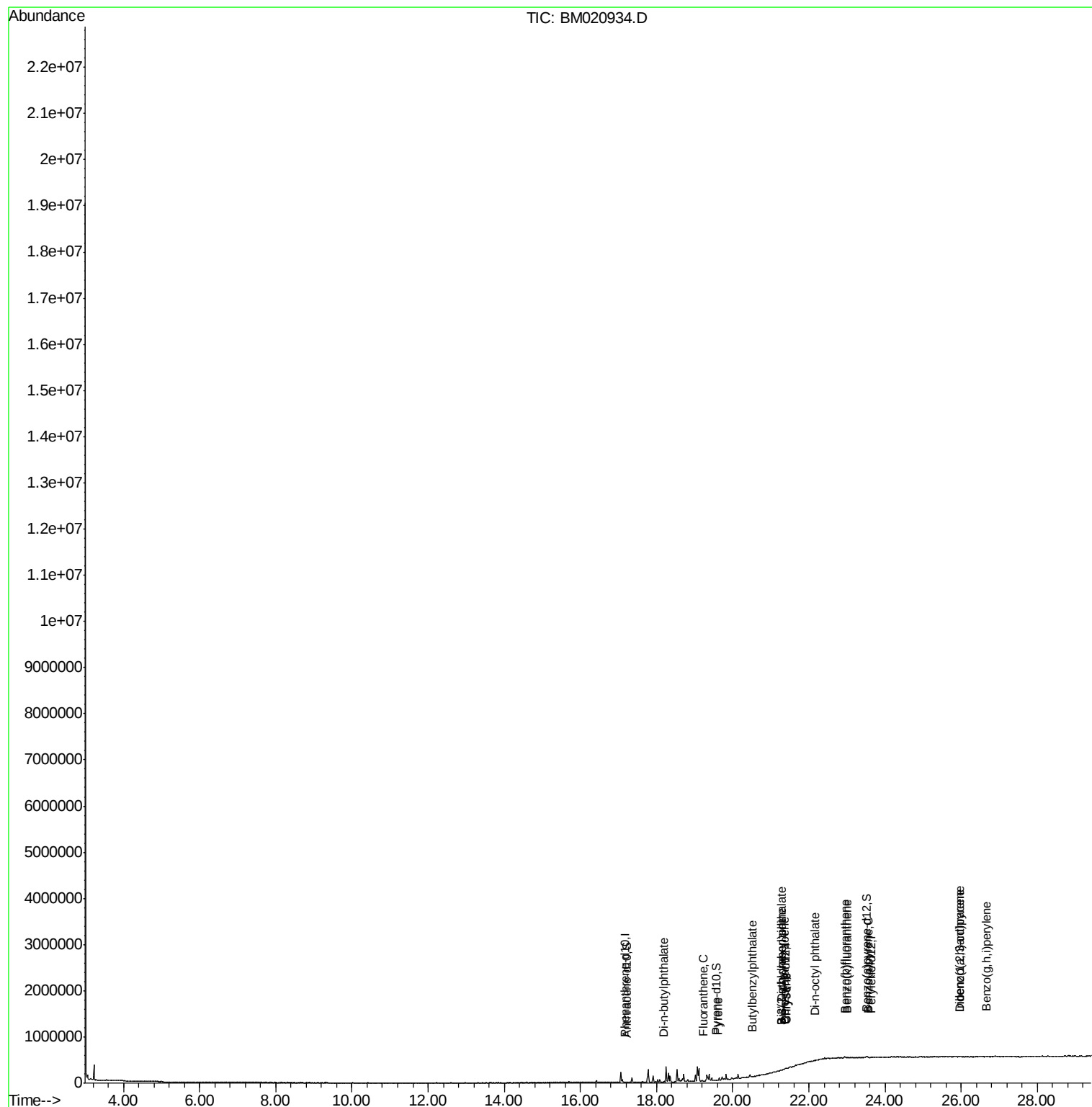
|                                |       |     |      |        | Ovalue |     |
|--------------------------------|-------|-----|------|--------|--------|-----|
| 75) Di-n-butylphthalate        | 18.20 | 149 | 618  | 29.701 | ng/ul# | 1   |
| 76) Fluoranthene               | 19.24 | 202 | 615  | 28.742 | ng/ul# | 75  |
| 79) Pyrene                     | 19.61 | 202 | 722  | 5.509  | ng/ul# | 71  |
| 80) Butylbenzylphthalate       | 20.50 | 149 | 72   | 1.348  | ng/ul# | 90  |
| 81) 3,3'-Dichlorobenzidine     | 21.29 | 252 | 801  | 17.022 | ng/ul# | 14  |
| 82) Benzo(a)anthracene         | 21.36 | 228 | 978  | 7.385  | ng/ul# | 52  |
| 83) Bis(2-ethylhexyl)phthalate | 21.29 | 149 | 501  | 5.562  | ng/ul# | 53  |
| 84) Chrysene                   | 21.40 | 228 | 1307 | 10.636 | ng/ul# | 71  |
| 86) Di-n-octyl phthalate       | 22.16 | 149 | 724  | 9.438  | ng/ul  | 100 |
| 87) Benzo(b)fluoranthene       | 22.96 | 252 | 2973 | 39.495 | ng/ul# | 18  |
| 88) Benzo(k)fluoranthene       | 23.02 | 252 | 860  | 11.953 | ng/ul# | 1   |
| 90) Benzo(a)pyrene             | 23.54 | 252 | 1120 | 15.639 | ng/ul# | 23  |
| 91) Indeno(1,2,3-cd)pyrene     | 25.95 | 276 | 5092 | 60.200 | ng/ul  | 96  |
| 92) Dibenzo(a,h)anthracene     | 25.96 | 278 | 2715 | 37.882 | ng/ul# | 74  |
| 93) Benzo(g,h,i)perylene       | 26.66 | 276 | 3691 | 53.786 | ng/ul# | 92  |

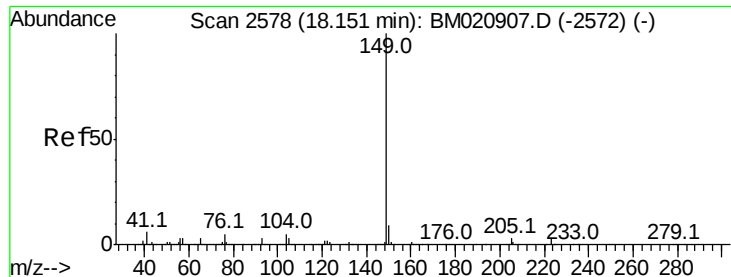
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : AR1248 50PPM  
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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :

Quant Time: Jun 14 02:29:06 2019  
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Quant Title : SVOA CALIBRATION  
QLast Update : Sun Jun 09 01:02:58 2019  
Response via : Initial Calibration

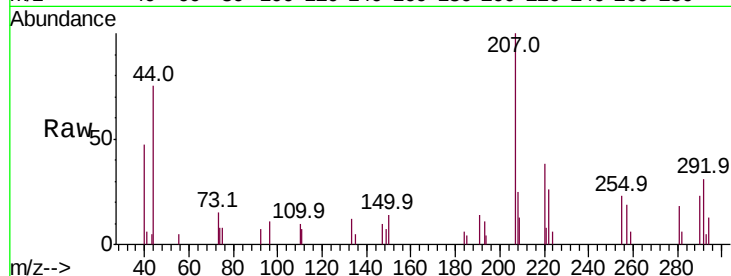




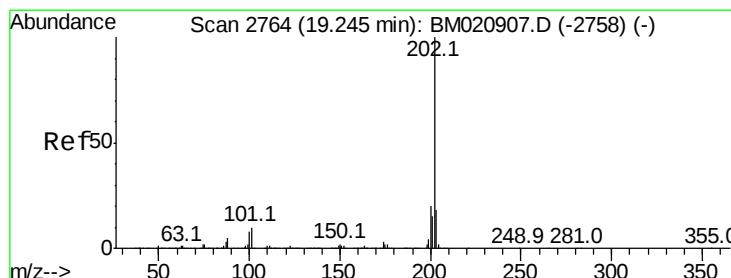
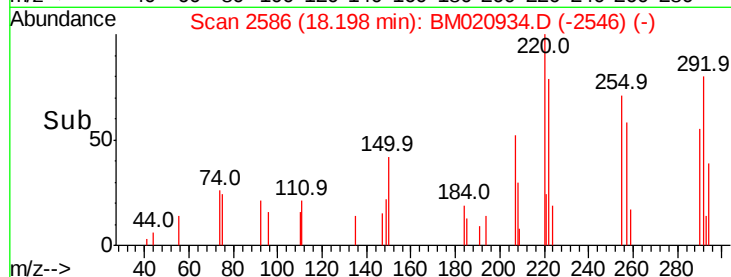
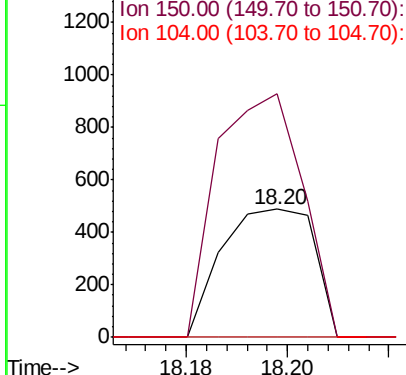
#75  
Di-n-butylphthalate  
Concen: 29.701 ng/ul  
RT: 18.20 min Scan# 2586  
Delta R.T. 0.04 min  
Lab File: BM020934.D  
Acq: 13 Jun 2019 18:39

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:149 Resp: 618  
Ion Ratio Lower Upper  
149 100  
150 189.8 7.3 10.9#  
104 0.0 4.0 6.0#

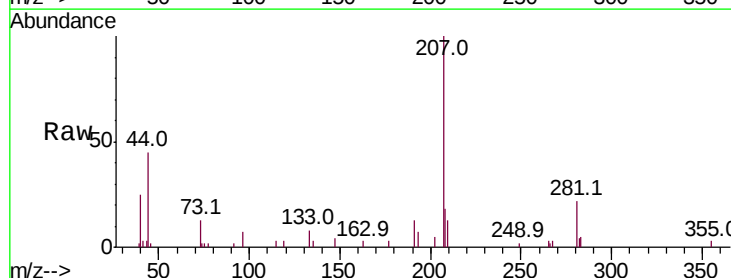


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 104.00 (103.70 to 104.70): E

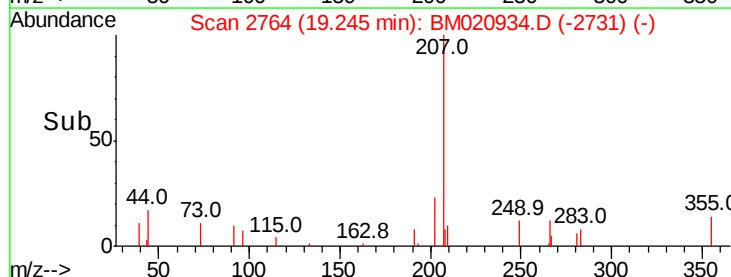
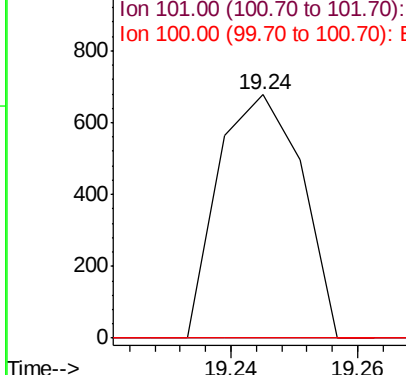


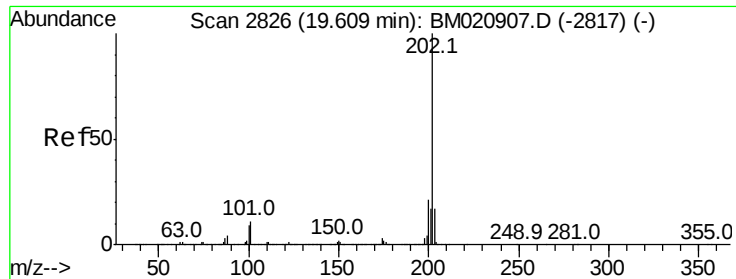
#76  
Fluoranthene  
Concen: 28.742 ng/ul  
RT: 19.24 min Scan# 2764  
Delta R.T. -0.01 min  
Lab File: BM020934.D  
Acq: 13 Jun 2019 18:39

Tgt Ion:202 Resp: 615  
Ion Ratio Lower Upper  
202 100  
101 0.0 7.9 11.9#  
100 0.0 6.2 9.4#



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): E

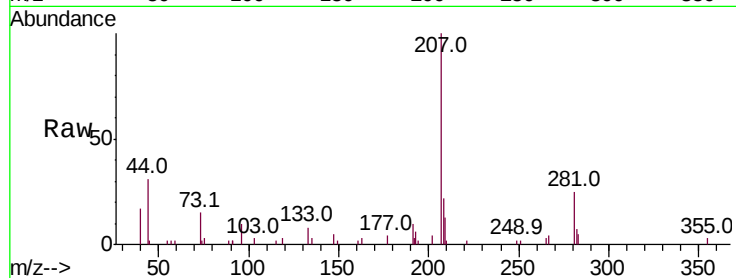




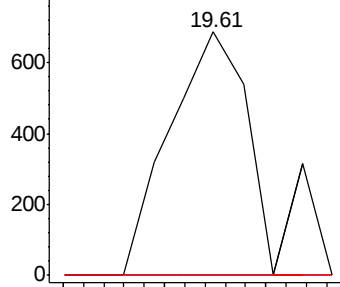
#79  
Pvrene  
Concen: 5.509 ng/ul  
RT: 19.61 min Scan# 2826  
Delta R.T. -0.01 min  
Lab File: BM020934.D  
Acq: 13 Jun 2019 18:39

Instrument :  
BNA\_M  
ClientSampleId :

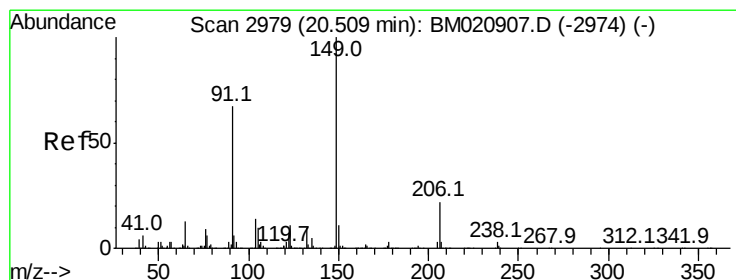
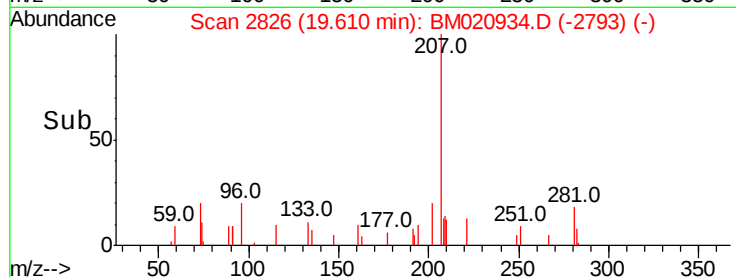
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 0.0   | 9.8   | 14.6# |
| 100     | 0.0   | 8.0   | 12.0# |



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

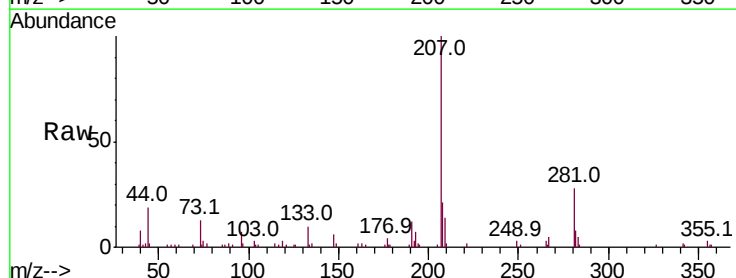


Time--> 19.58 19.60 19.62

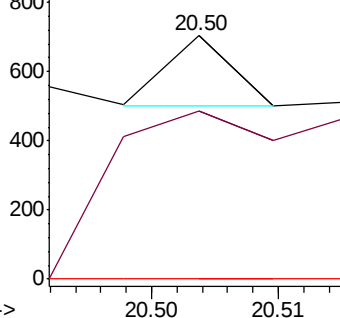


#80  
Butylbenzylphthalate  
Concen: 1.348 ng/ul  
RT: 20.50 min Scan# 2978  
Delta R.T. -0.01 min  
Lab File: BM020934.D  
Acq: 13 Jun 2019 18:39

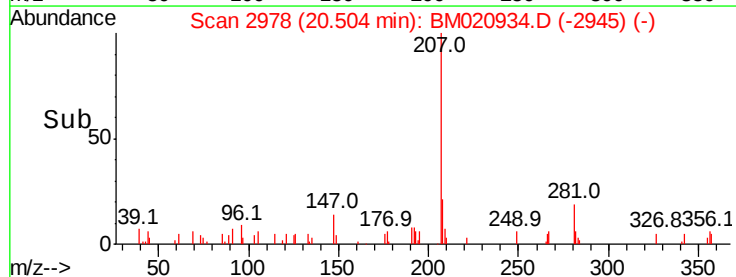
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 69.3  | 55.8  | 83.6  |
| 206     | 0.0   | 16.2  | 24.4# |

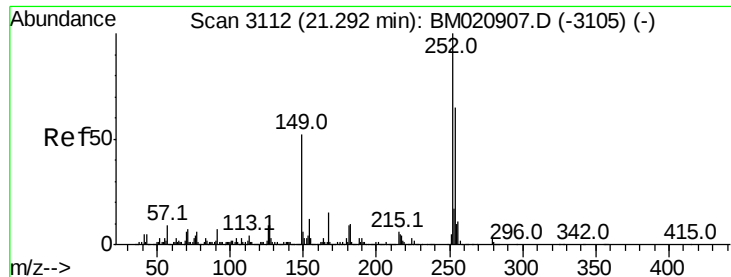


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 91.00 (90.70 to 91.70): B  
Ion 206.00 (205.70 to 206.70): E



Time--> 20.50 20.51

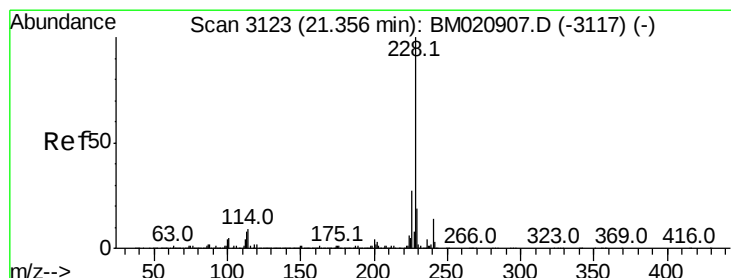
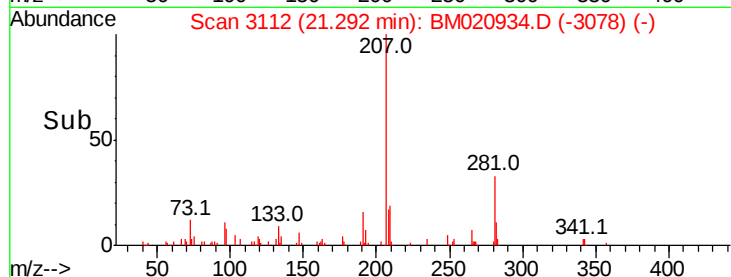
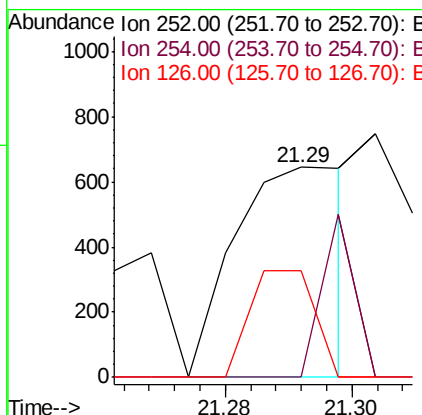
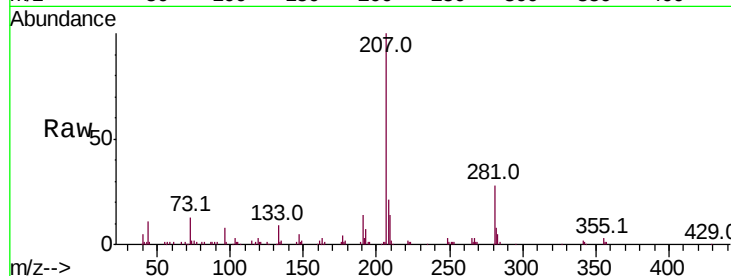




#81  
 3,3'-Dichlorobenzidine  
 Concen: 17.022 ng/ul  
 RT: 21.29 min Scan# 3112  
 Delta R.T. 0.00 min  
 Lab File: BM020934.D  
 Acq: 13 Jun 2019 18:39

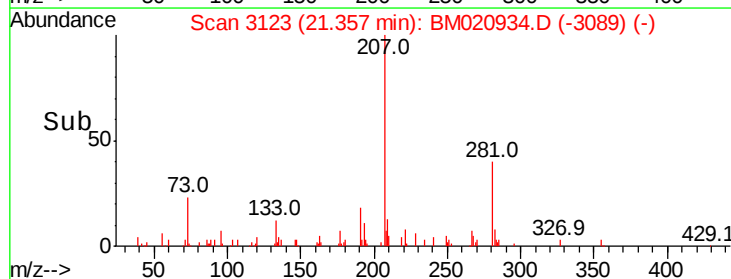
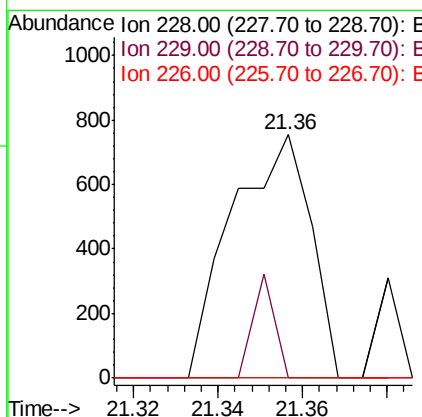
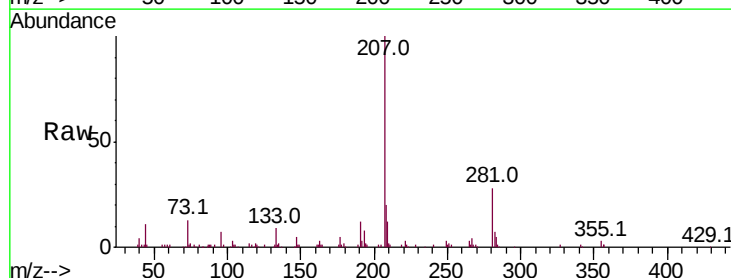
Instrument :  
 BNA\_M  
 ClientSampleId :

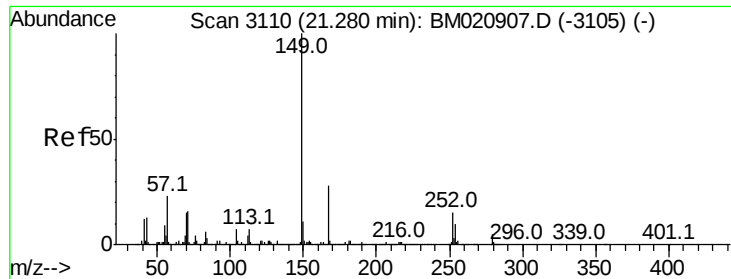
Tot Ion:252 Resp: 801  
 Ion Ratio Lower Upper  
 252 100  
 254 0.0 51.0 76.6#  
 126 50.5 7.4 11.2#



#82  
 Benzo(a)anthracene  
 Concen: 7.385 ng/ul  
 RT: 21.36 min Scan# 3123  
 Delta R.T. 0.00 min  
 Lab File: BM020934.D  
 Acq: 13 Jun 2019 18:39

Tgt Ion:228 Resp: 978  
 Ion Ratio Lower Upper  
 228 100  
 229 0.0 15.6 23.4#  
 226 0.0 21.4 32.2#

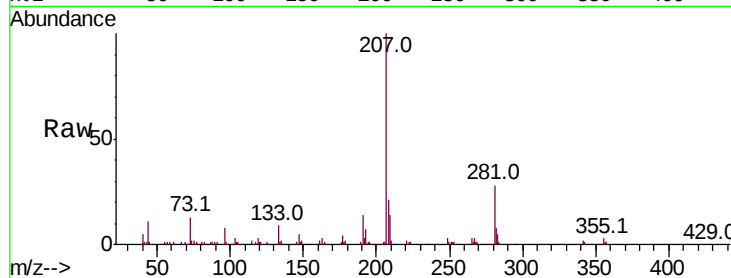




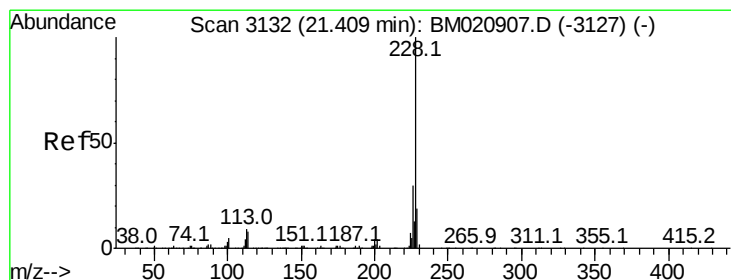
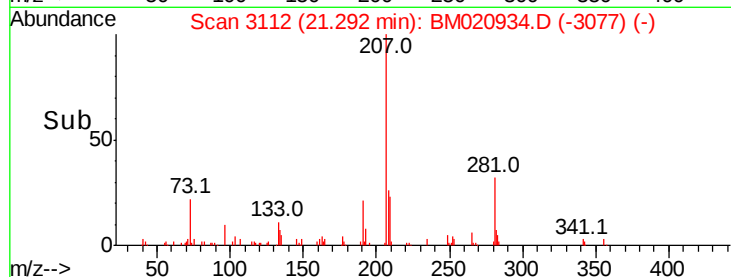
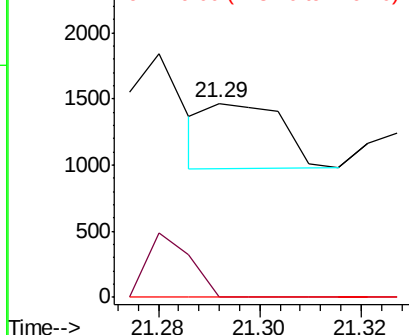
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 5.562 ng/ul  
 RT: 21.29 min Scan# 3112  
 Delta R.T. 0.01 min  
 Lab File: BM020934.D  
 Acq: 13 Jun 2019 18:39

Instrument :  
 BNA\_M  
 ClientSampled :

Tot Ion:149 Resp: 501  
 Ion Ratio Lower Upper  
 149 100  
 167 0.0 21.9 32.9#  
 279 0.0 4.1 6.1#

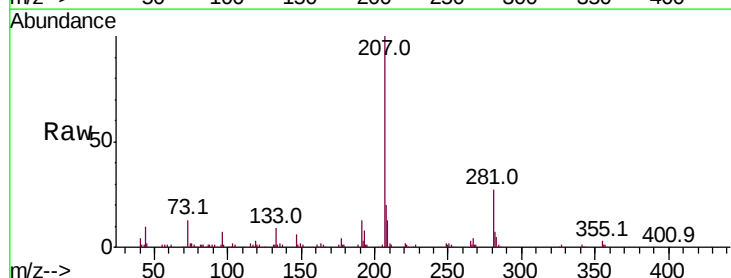


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

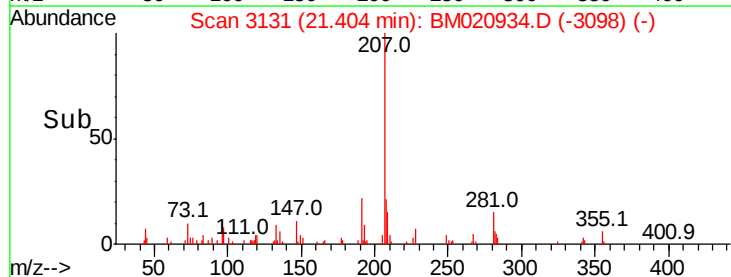
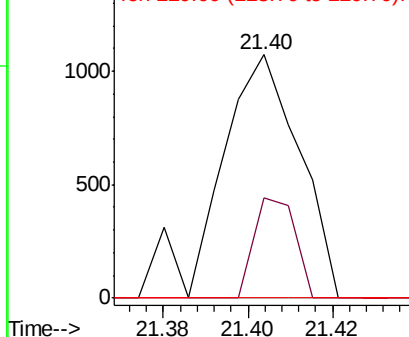


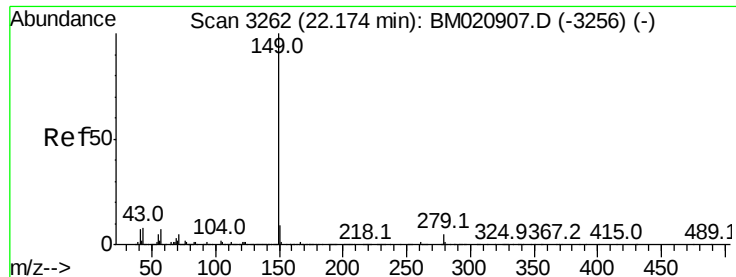
#84  
 Chrysene  
 Concen: 10.636 ng/ul  
 RT: 21.40 min Scan# 3131  
 Delta R.T. -0.01 min  
 Lab File: BM020934.D  
 Acq: 13 Jun 2019 18:39

Tgt Ion:228 Resp: 1307  
 Ion Ratio Lower Upper  
 228 100  
 226 41.1 24.4 36.6#  
 229 0.0 16.2 24.2#



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

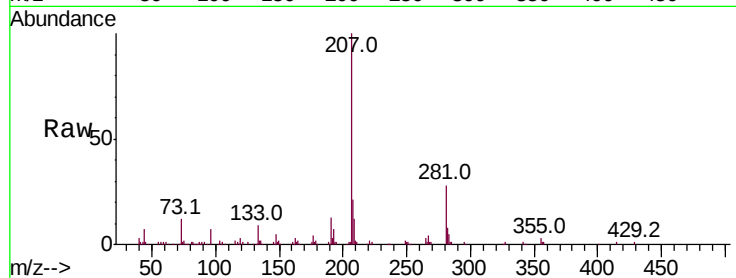




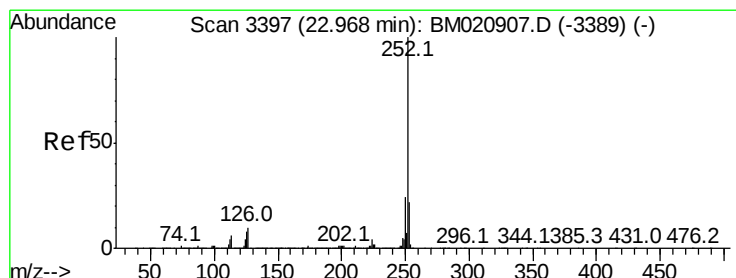
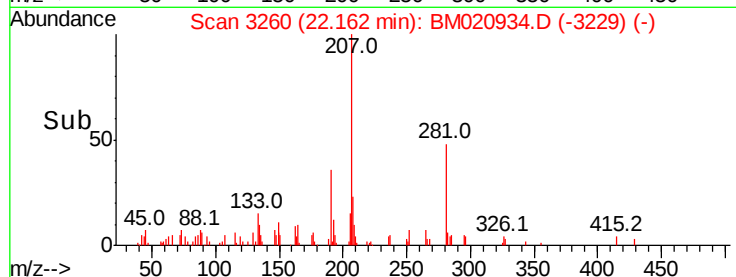
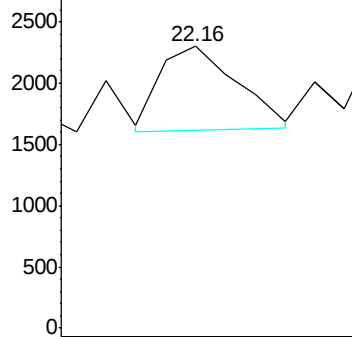
#86  
Di-n-octyl phthalate  
Concen: 9.438 ng/ul  
RT: 22.16 min Scan# 3260  
Delta R.T. -0.02 min  
Lab File: BM020934.D  
Acq: 13 Jun 2019 18:39

Instrument :  
BNA\_M  
ClientSampled :

Tgt Ion:149 Resp: 724

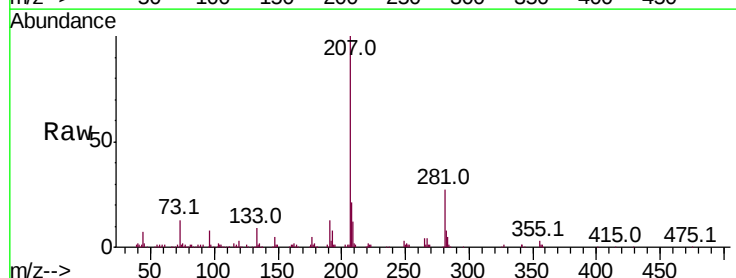


Abundance Ion 149.00 (148.70 to 149.70): E



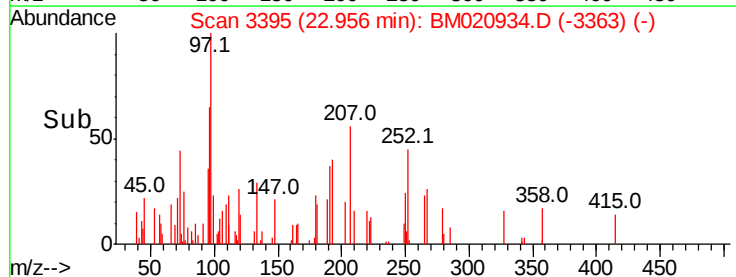
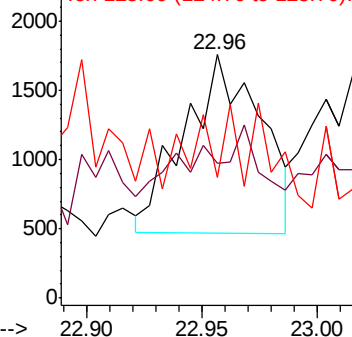
#87  
Benzo(b)fluoranthene  
Concen: 39.495 ng/ul  
RT: 22.96 min Scan# 3395  
Delta R.T. -0.01 min  
Lab File: BM020934.D  
Acq: 13 Jun 2019 18:39

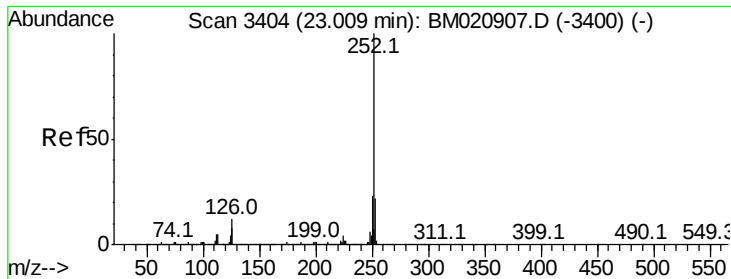
Tgt Ion:252 Resp: 2973  
Ion Ratio Lower Upper  
252 100  
253 55.3 17.6 26.4#  
125 49.3 7.3 10.9#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 11.953 ng/ul

RT: 23.02 min Scan# 3405

Delta R.T. 0.00 min

Lab File: BM020934.D

Acq: 13 Jun 2019 18:39

Instrument :

BNA\_M

ClientSampled :

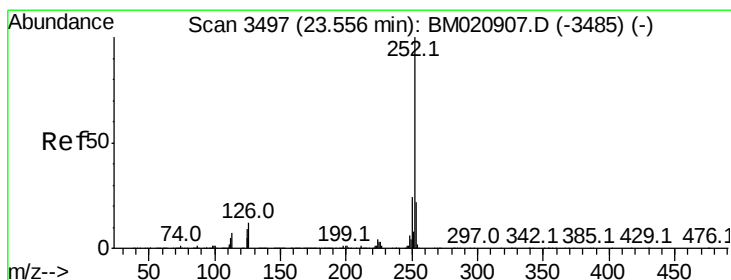
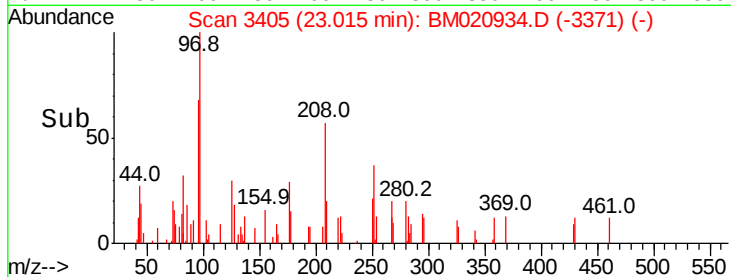
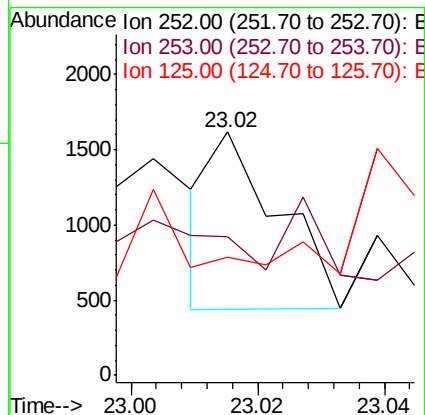
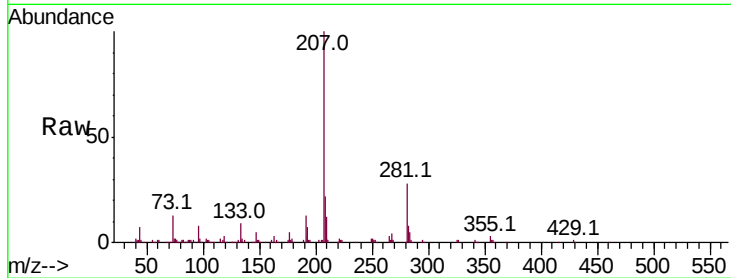
Tot Ion:252 Resp: 860

Ion Ratio Lower Upper

252 100

253 57.0 17.6 26.4#

125 68.8 7.3 10.9#



#90

Benzo(a)pyrene

Concen: 15.639 ng/ul

RT: 23.54 min Scan# 3495

Delta R.T. -0.01 min

Lab File: BM020934.D

Acq: 13 Jun 2019 18:39

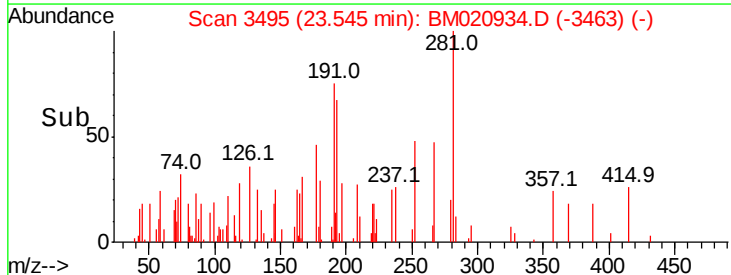
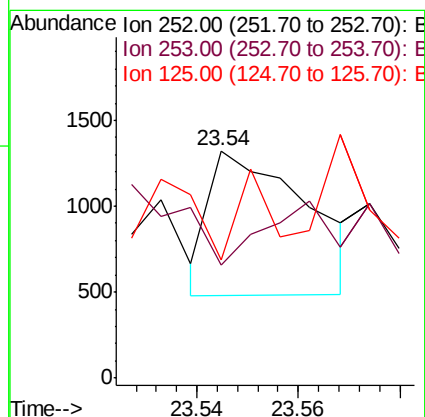
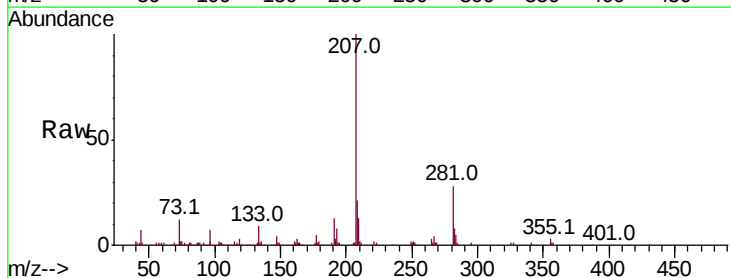
Tgt Ion:252 Resp: 1120

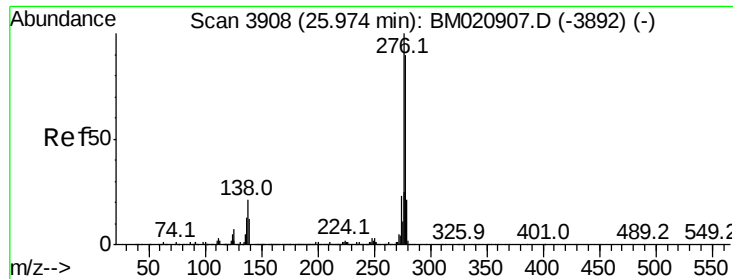
Ion Ratio Lower Upper

252 100

253 49.7 17.0 25.6#

125 52.1 8.2 12.4#



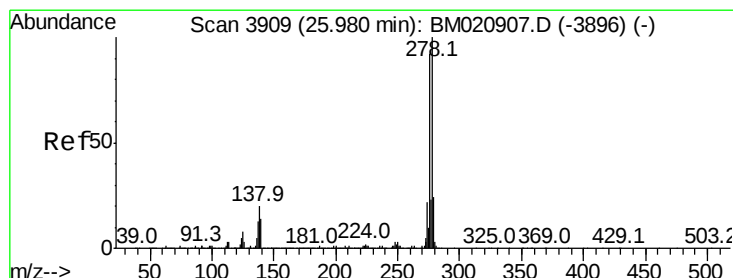
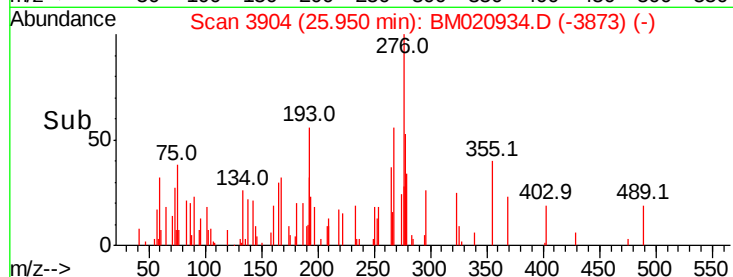
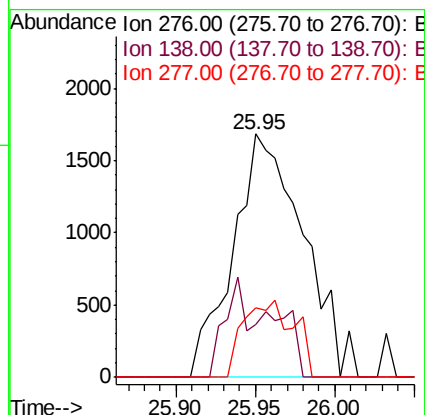
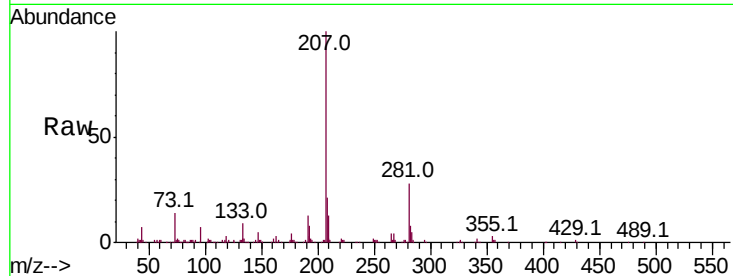


#91

Indeno(1,2,3-cd)pyrene  
Concen: 60.200 ng/ul  
RT: 25.95 min Scan# 3904  
Delta R.T. -0.02 min  
Lab File: BM020934.D  
Acq: 13 Jun 2019 18:39

Instrument :  
BNA\_M  
ClientSampleId :

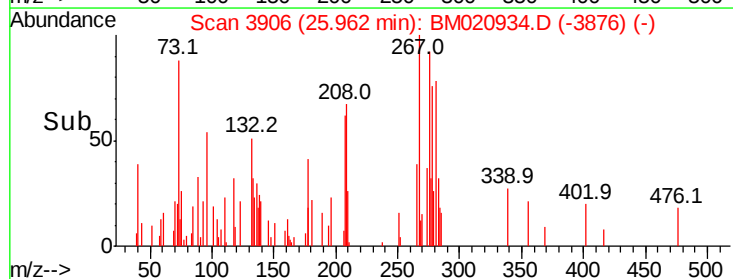
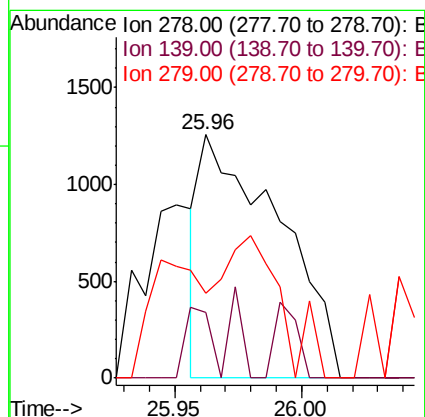
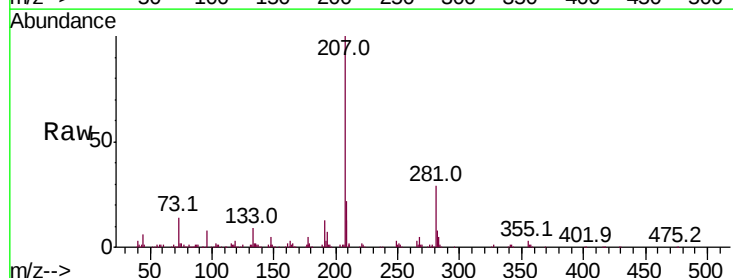
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.8  | 17.8  | 26.8  |
| 277     | 28.4  | 20.0  | 30.0  |

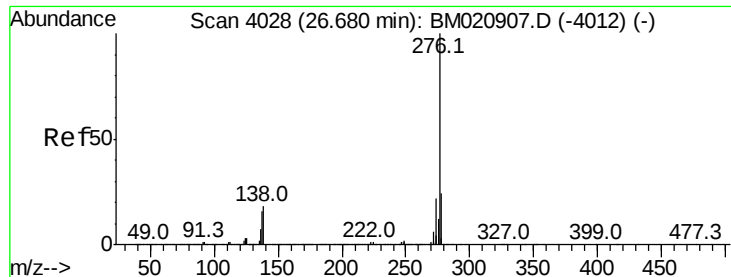


#92

Dibenzo(a,h)anthracene  
Concen: 37.882 ng/ul  
RT: 25.96 min Scan# 3906  
Delta R.T. -0.02 min  
Lab File: BM020934.D  
Acq: 13 Jun 2019 18:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 27.1  | 11.6  | 17.4# |
| 279     | 34.8  | 18.6  | 28.0# |





#93

Benzo(a,h,i)perylene

Concen: 53.786 ng/ul

RT: 26.66 min Scan# 4024

Delta R.T. -0.03 min

Lab File: BM020934.D

Acq: 13 Jun 2019 18:39

Instrument :

BNA\_M

ClientSampleId :

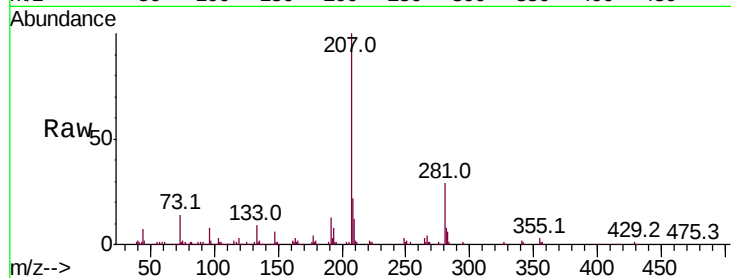
Tot Ion:276 Resp: 3691

Ion Ratio Lower Upper

276 100

138 26.6 16.6 25.0#

277 22.2 19.6 29.4



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

