

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050619\  
 Data File : BM020162.D  
 Acq On : 07 May 2019 10:03  
 Operator : JU/SJ  
 Sample : K2672-18 10X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: May 07 11:22:04 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 01 03:58:37 2019  
 Response via : Initial Calibration

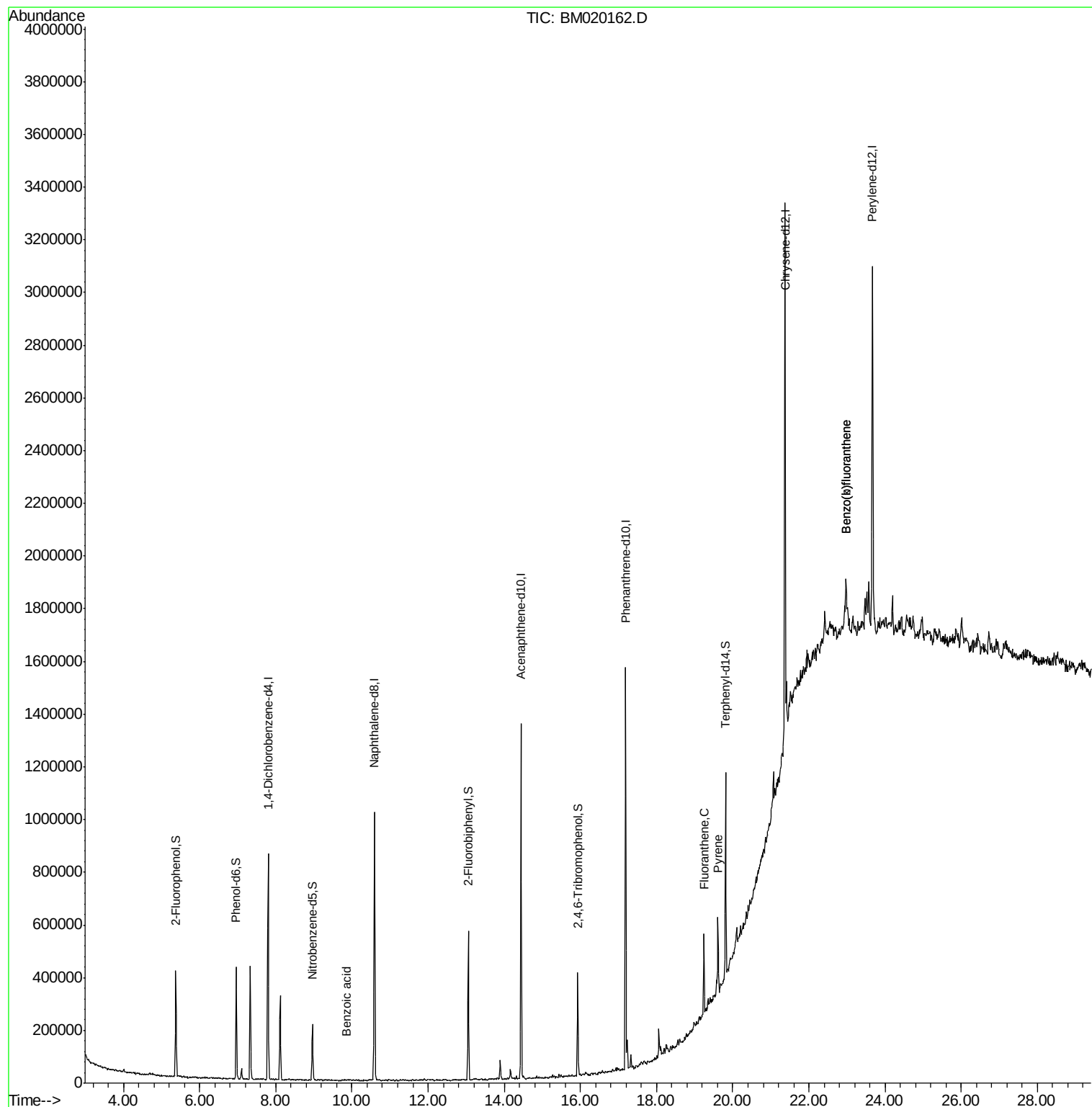
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.80  | 152  | 214152   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.59 | 136  | 767703   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.44 | 164  | 403008   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.19 | 188  | 888763   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.37 | 240  | 871356   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 23.67 | 264  | 1021248  | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.38  | 112  | 156062   | 11.91 | ng    | 0.00     |
| 7) Phenol-d6                | 6.96  | 99   | 218656   | 12.22 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 8.96  | 82   | 130412   | 6.71  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.93 | 330  | 67330    | 10.76 | ng    | 0.01     |
| 45) 2-Fluorobiphenyl        | 13.06 | 172  | 263284   | 8.04  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.81 | 244  | 350650   | 7.02  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 32) Benzoic acid            | 9.86  | 122  | 137      | 6.627 | ng    | # 7      |
| 75) Fluoranthene            | 19.24 | 202  | 172884   | 2.785 | ng    | 97       |
| 78) Pyrene                  | 19.61 | 202  | 168666   | 2.883 | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 22.97 | 252  | 162429   | 2.409 | ng    | # 86     |
| 89) Benzo(k)fluoranthene    | 22.97 | 252  | 159710   | 2.596 | ng    | # 87     |

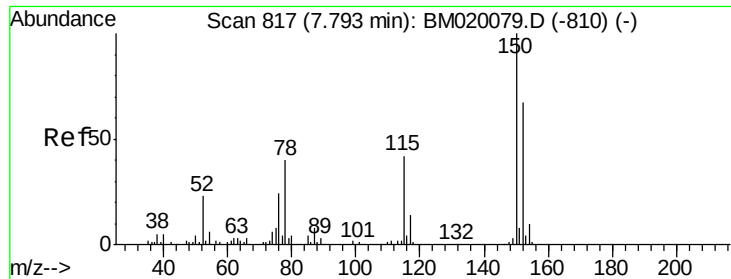
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M  
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Response via : Initial Calibration



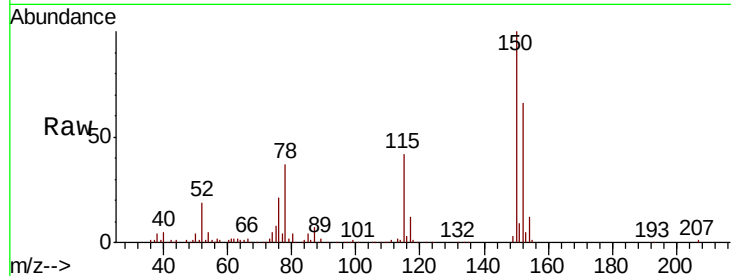


#1

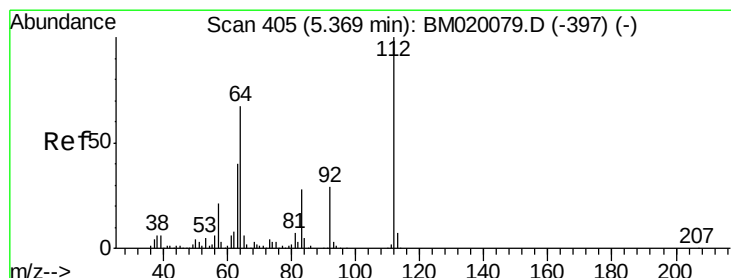
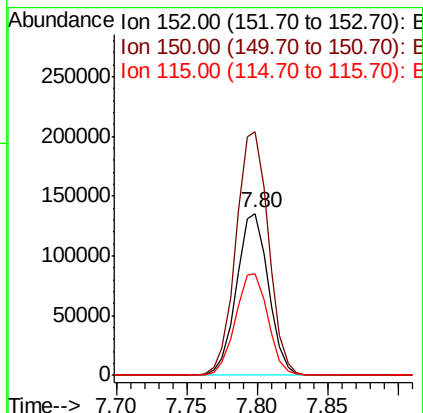
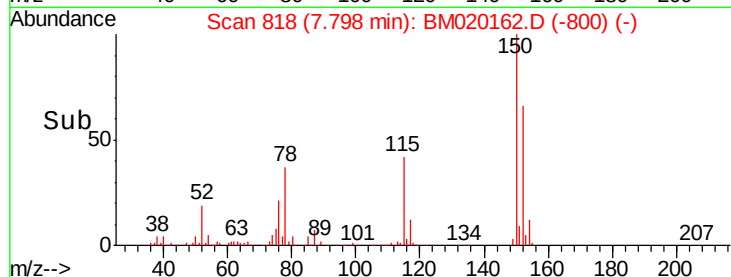
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.80 min Scan# 818  
Delta R.T. 0.01 min  
Lab File: BM020162.D  
Acq: 07 May 2019 10:03

Instrument :  
BNA\_M  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.4 | 119.8 | 179.8 |
| 115     | 62.8  | 50.8  | 76.2  |



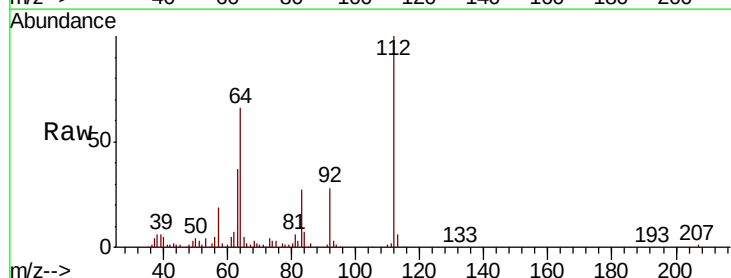
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



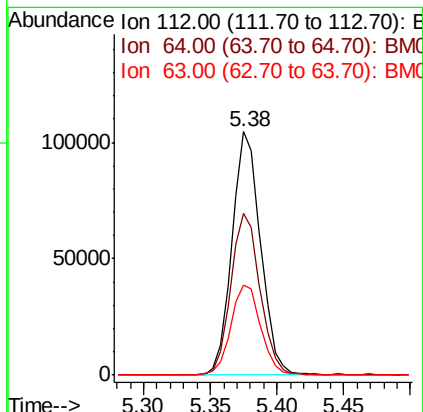
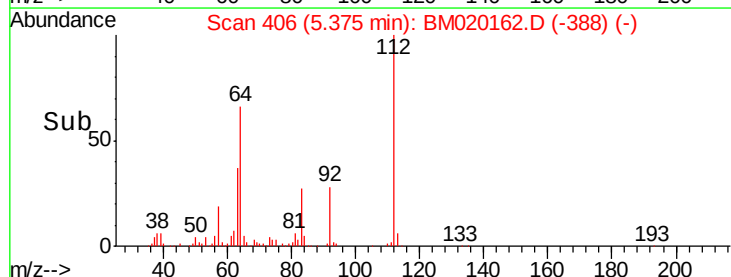
#5

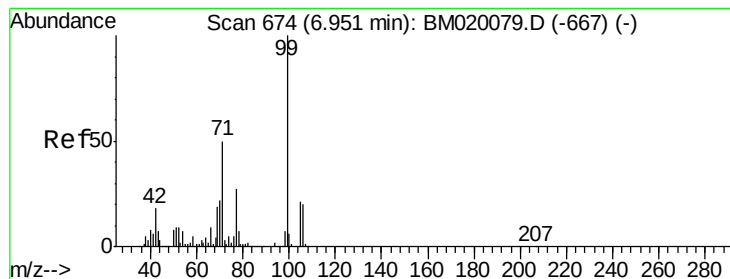
2-Fluorophenol  
Concen: 11.912 ng  
RT: 5.38 min Scan# 406  
Delta R.T. 0.01 min  
Lab File: BM020162.D  
Acq: 07 May 2019 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.3  | 53.8  | 80.6  |
| 63      | 37.0  | 32.3  | 48.5  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BM0  
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 12.217 ng

RT: 6.96 min Scan# 676

Delta R.T. 0.01 min

Lab File: BM020162.D

Acq: 07 May 2019 10:03

Instrument :

BNA\_M

ClientSampleId :

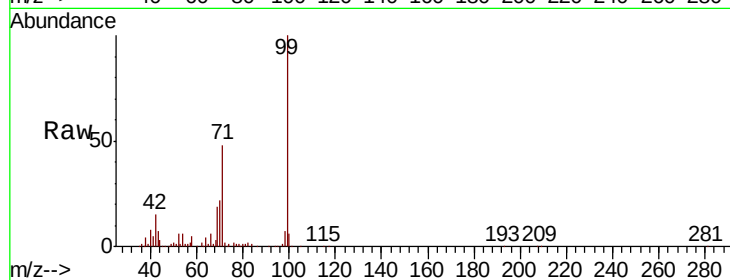
Tot Ion: 99 Resp: 218656

Ion Ratio Lower Upper

99 100

42 15.1 14.2 21.2

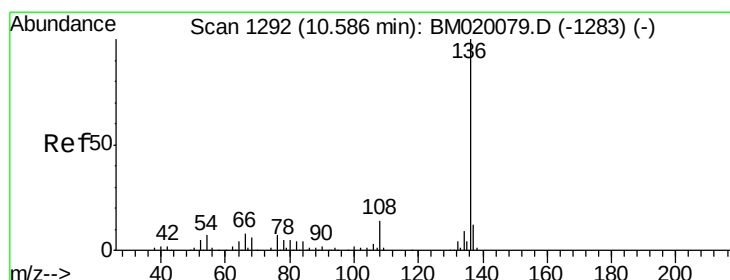
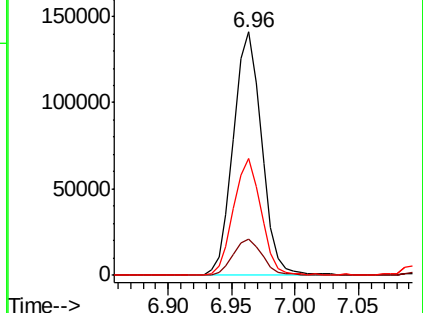
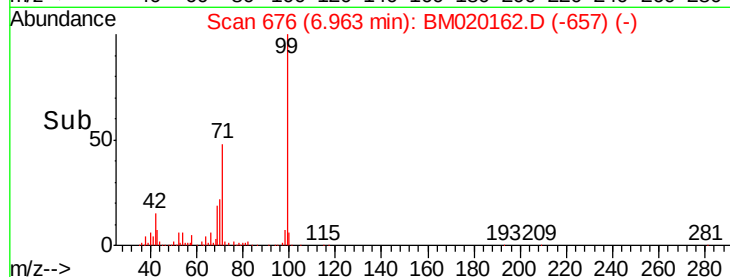
71 47.9 40.3 60.5



Abundance Ion 99.00 (98.70 to 99.70): BM020162.D (-657) (-)

Ion 42.00 (41.70 to 42.70): BM020162.D (-657) (-)

Ion 71.00 (70.70 to 71.70): BM020162.D (-657) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.59 min Scan# 1293

Delta R.T. 0.01 min

Lab File: BM020162.D

Acq: 07 May 2019 10:03

Tgt Ion: 136 Resp: 767703

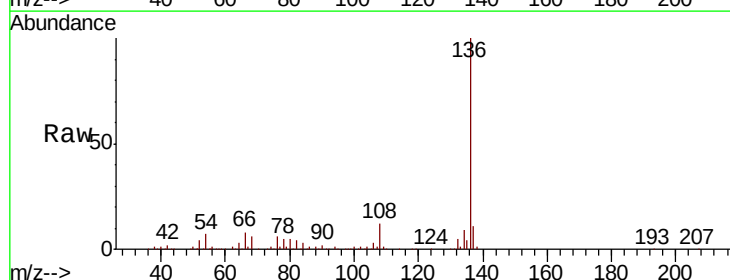
Ion Ratio Lower Upper

136 100

137 10.7 9.6 14.4

54 6.7 5.5 8.3

68 6.5 4.6 6.8

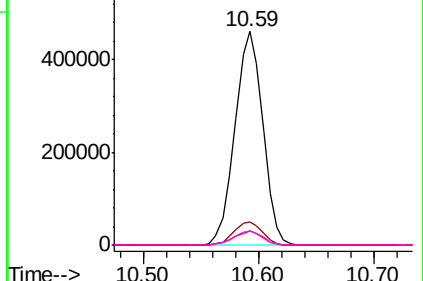
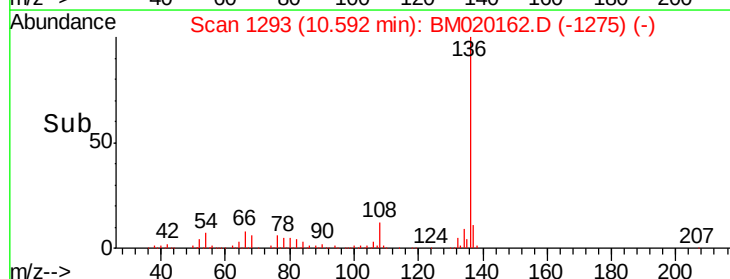


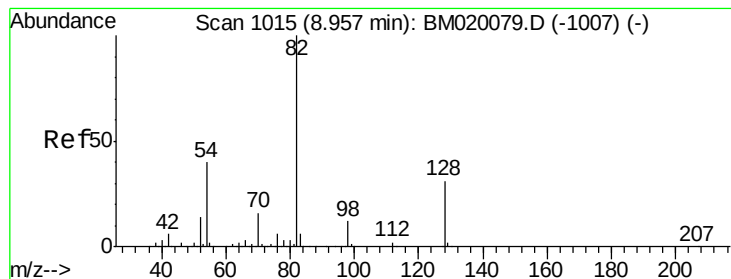
Abundance Ion 136.00 (135.70 to 136.70): BM020162.D (-1275) (-)

Ion 137.00 (136.70 to 137.70): BM020162.D (-1275) (-)

Ion 54.00 (53.70 to 54.70): BM020162.D (-1275) (-)

Ion 68.00 (67.70 to 68.70): BM020162.D (-1275) (-)





#23

Nitrobenzene-d5

Concen: 6.707 ng

RT: 8.96 min Scan# 1016

Delta R.T. 0.01 min

Lab File: BM020162.D

Acq: 07 May 2019 10:03

Instrument :

BNA\_M

ClientSampleId :

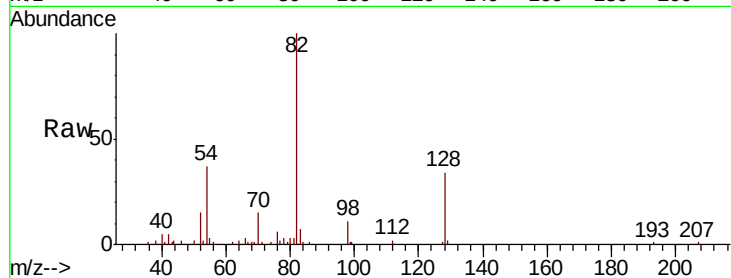
Tot Ion: 82 Resp: 130412

Ion Ratio Lower Upper

82 100

128 34.2 25.2 37.8

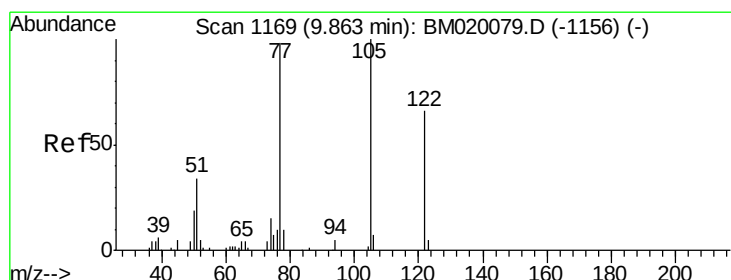
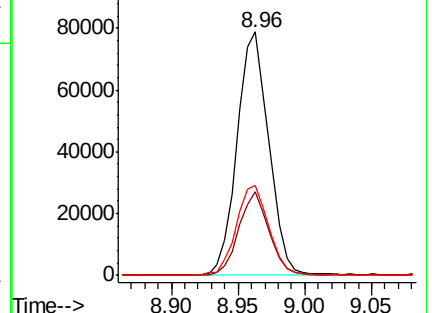
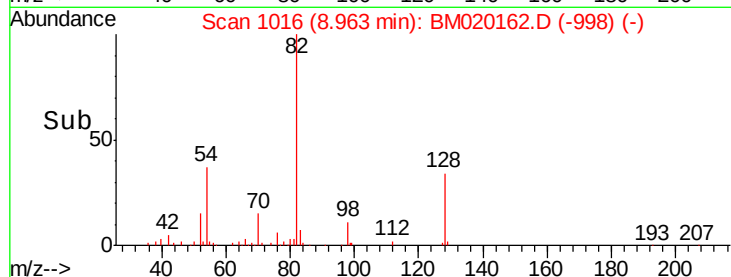
54 36.7 31.9 47.9



Abundance Ion 82.00 (81.70 to 82.70): BM020162.D (-998) (-)

Ion 128.00 (127.70 to 128.70): BM020162.D (-998) (-)

Ion 54.00 (53.70 to 54.70): BM020162.D (-998) (-)



#32

Benzoic acid

Concen: 6.627 ng

RT: 9.86 min Scan# 1168

Delta R.T. -0.00 min

Lab File: BM020162.D

Acq: 07 May 2019 10:03

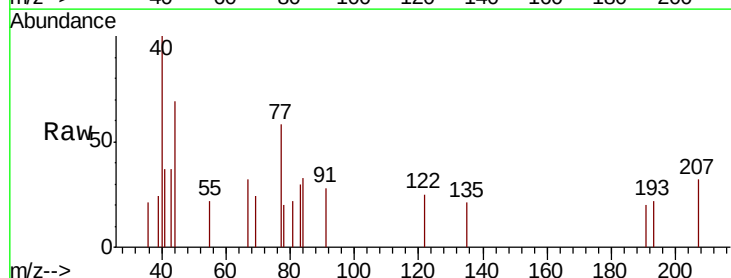
Tgt Ion: 122 Resp: 137

Ion Ratio Lower Upper

122 100

105 0.0 122.5 162.5#

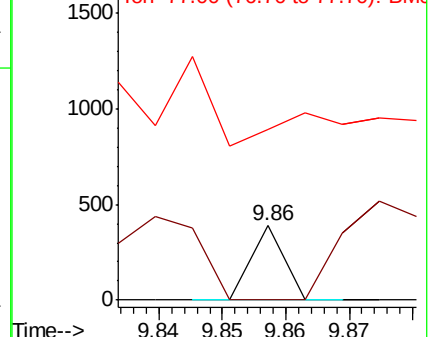
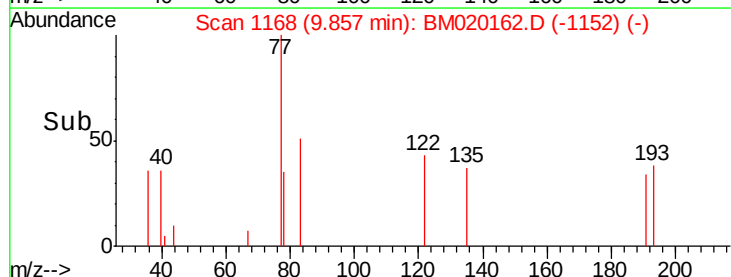
77 230.1 123.3 163.3#

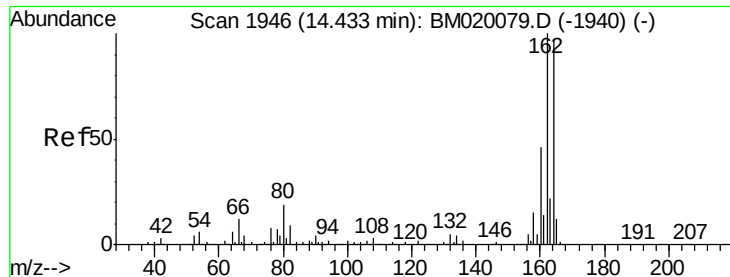


Abundance Ion 122.00 (121.70 to 122.70): BM020162.D (-1152) (-)

Ion 105.00 (104.70 to 105.70): BM020162.D (-1152) (-)

Ion 77.00 (76.70 to 77.70): BM020162.D (-1152) (-)





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.44 min Scan# 1947

Delta R.T. 0.01 min

Lab File: BM020162.D

Acq: 07 May 2019 10:03

Instrument :

BNA\_M

ClientSampleId :

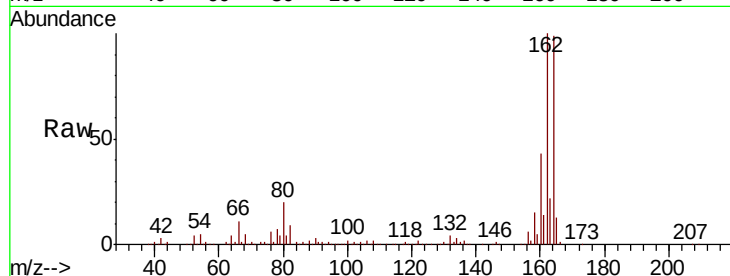
Tot Ion:164 Resp: 403008

Ion Ratio Lower Upper

164 100

162 101.4 82.2 123.2

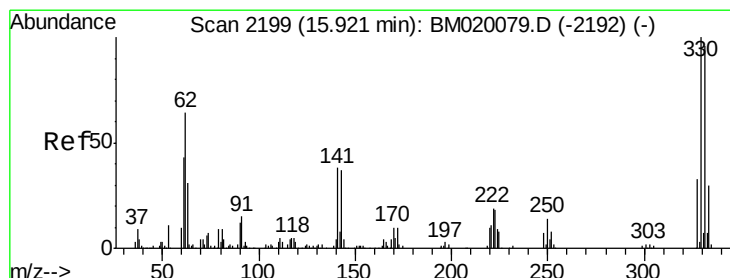
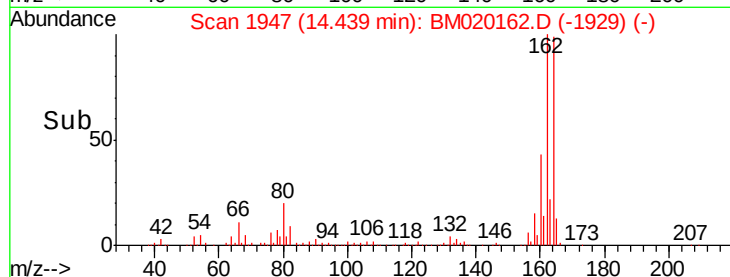
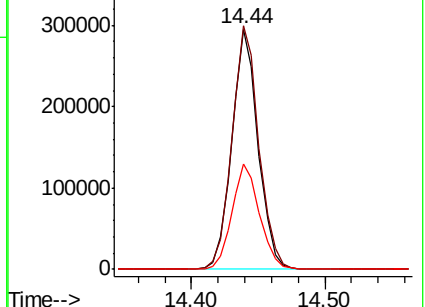
160 43.9 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 10.763 ng

RT: 15.93 min Scan# 2201

Delta R.T. 0.01 min

Lab File: BM020162.D

Acq: 07 May 2019 10:03

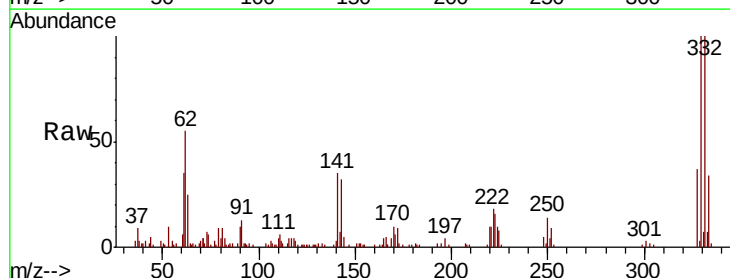
Tgt Ion:330 Resp: 67330

Ion Ratio Lower Upper

330 100

332 97.8 76.8 115.2

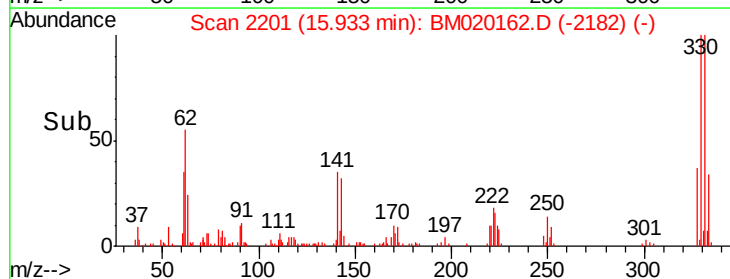
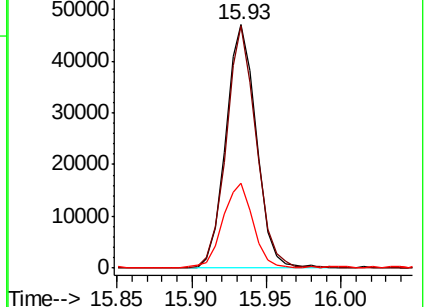
141 35.0 29.2 43.8

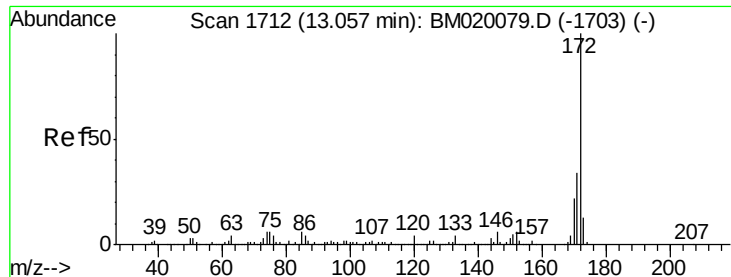


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

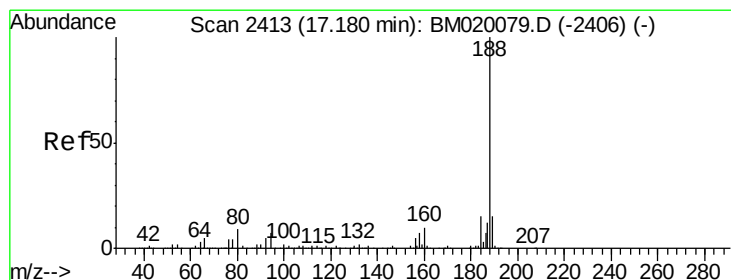
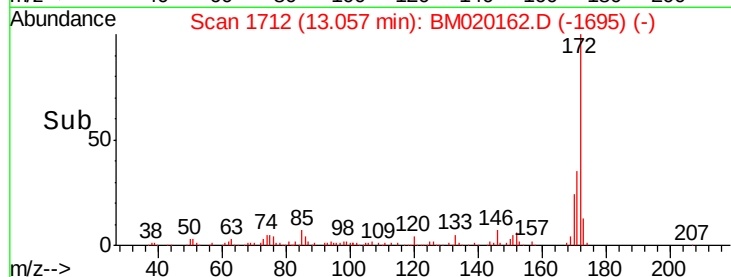
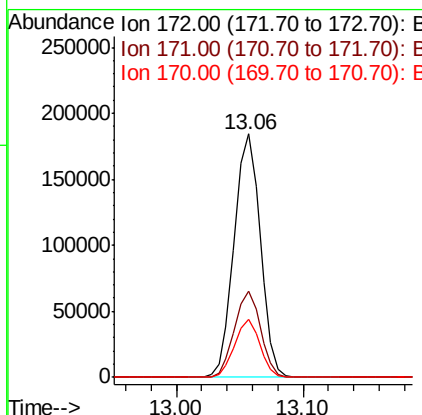
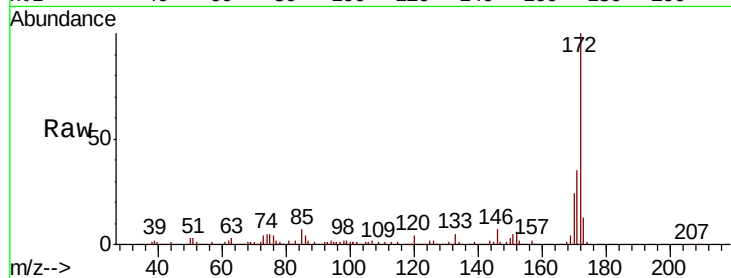




#45  
 2-Fluorobiphenyl  
 Concen: 8.038 ng  
 RT: 13.06 min Scan# 1712  
 Delta R.T. 0.00 min  
 Lab File: BM020162.D  
 Acq: 07 May 2019 10:03

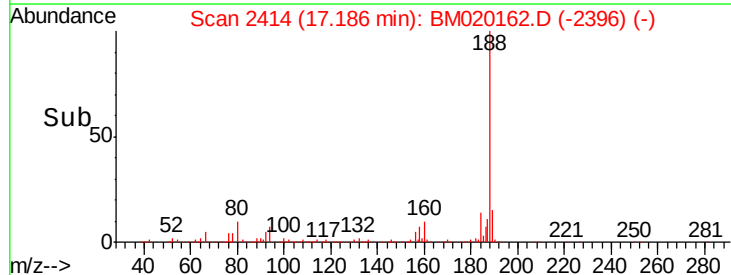
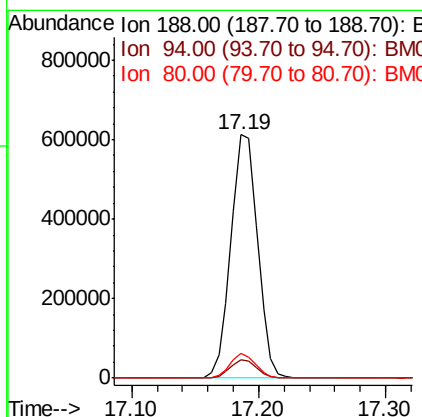
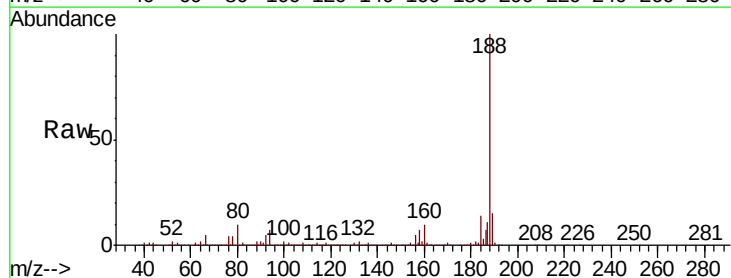
Instrument :  
 BNA\_M  
 ClientSampled :

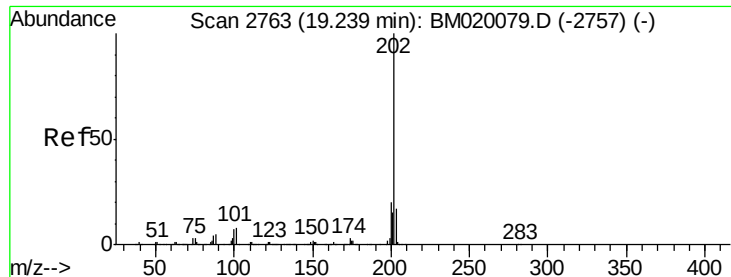
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.2  | 27.3  | 40.9  |
| 170     | 23.7  | 17.9  | 26.9  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.19 min Scan# 2414  
 Delta R.T. 0.01 min  
 Lab File: BM020162.D  
 Acq: 07 May 2019 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.3   | 5.8   | 8.6   |
| 80      | 10.1  | 7.4   | 11.2  |





#75

Fluoranthene

Concen: 2.785 ng

RT: 19.24 min Scan# 2764

Delta R.T. 0.01 min

Lab File: BM020162.D

Acq: 07 May 2019 10:03

Instrument :

BNA\_M

ClientSampleId :

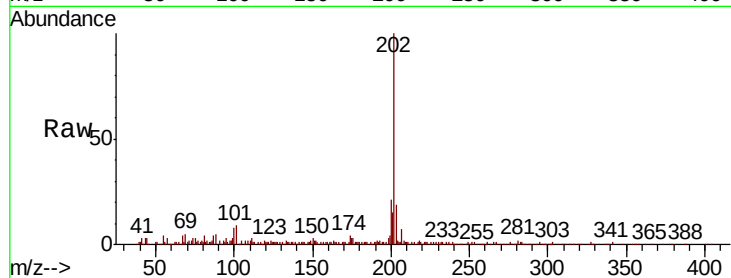
Tot Ion:202 Resp: 172884

Ion Ratio Lower Upper

202 100

101 8.7 0.0 28.4

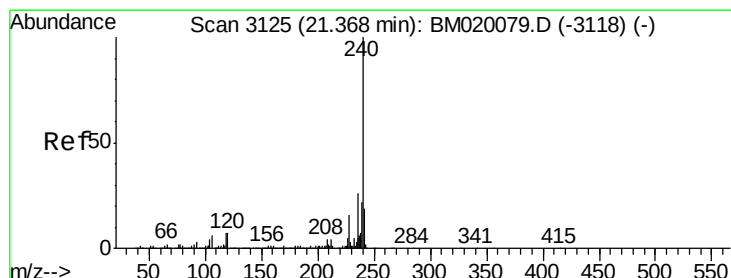
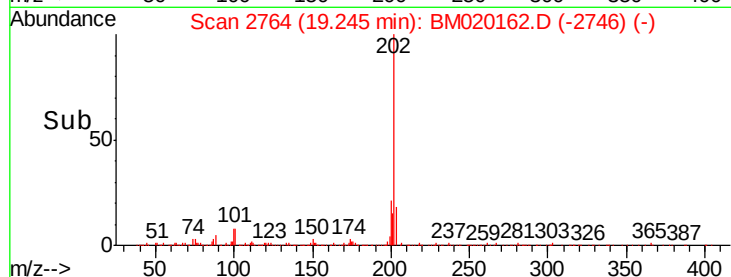
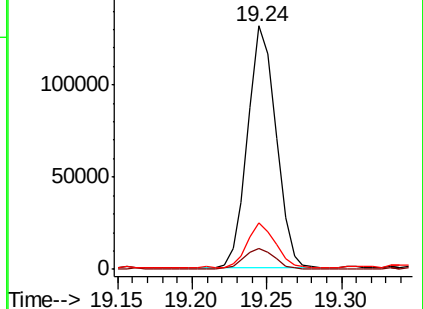
203 19.2 0.0 37.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.37 min Scan# 3126

Delta R.T. 0.01 min

Lab File: BM020162.D

Acq: 07 May 2019 10:03

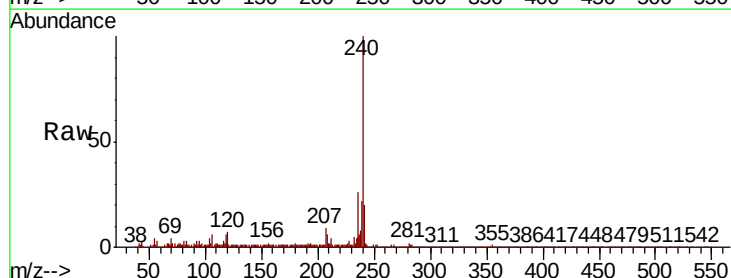
Tgt Ion:240 Resp: 871356

Ion Ratio Lower Upper

240 100

120 7.2 5.6 8.4

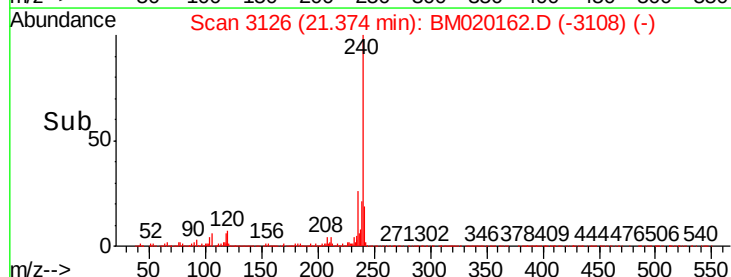
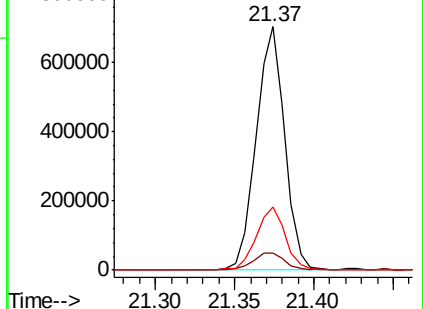
236 25.8 20.9 31.3



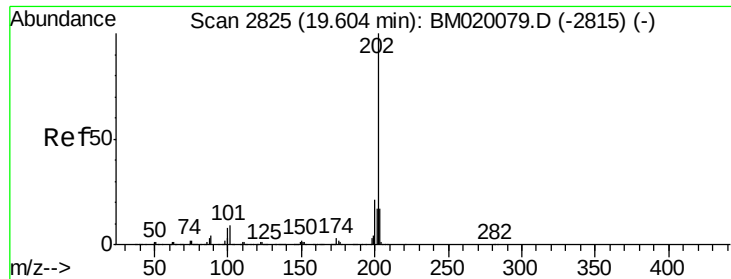
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



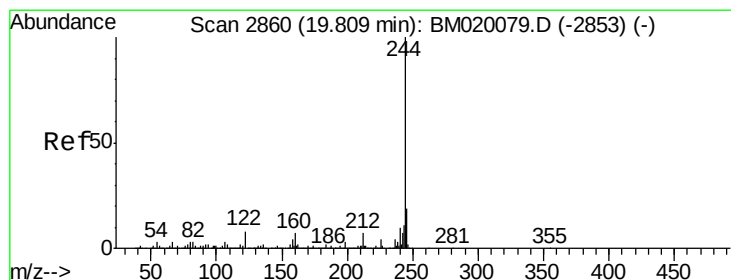
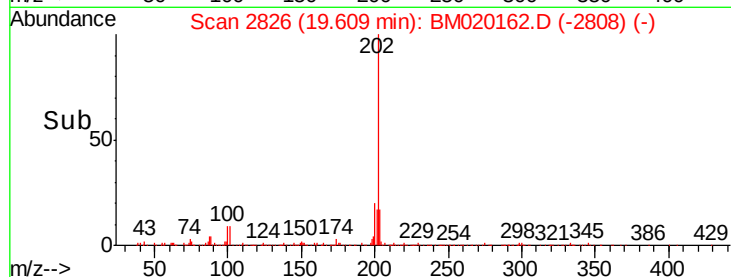
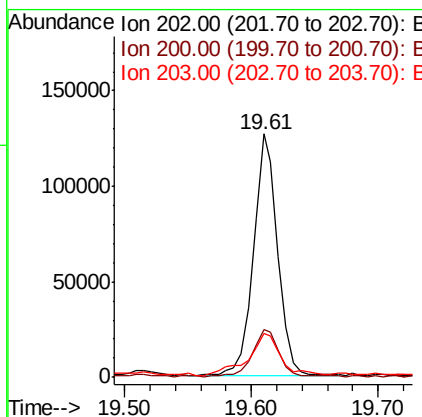
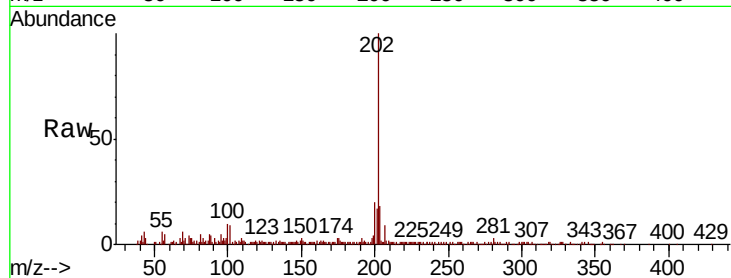




#78  
 Pvrene  
 Concen: 2.883 ng  
 RT: 19.61 min Scan# 2826  
 Delta R.T. 0.01 min  
 Lab File: BM020162.D  
 Acq: 07 May 2019 10:03

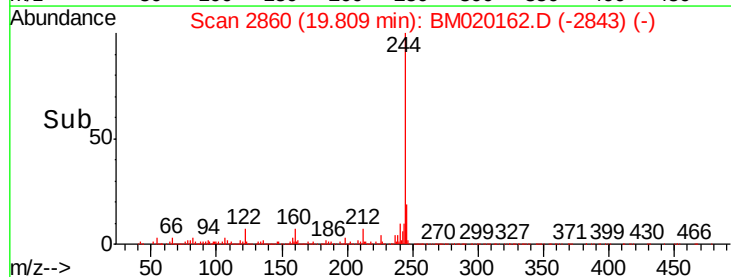
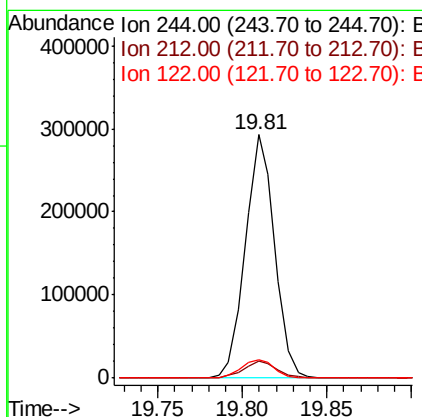
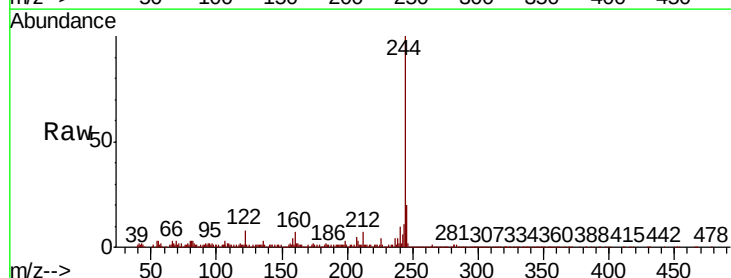
Instrument :  
 BNA\_M  
 ClientSampleId :

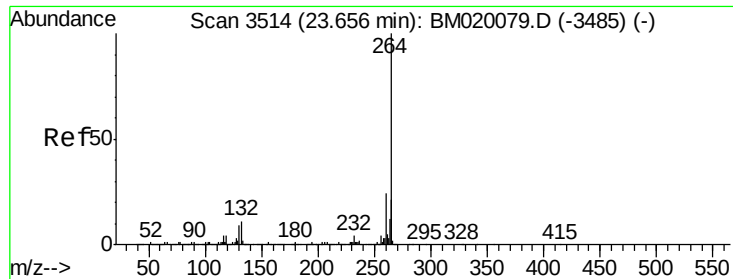
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.6  | 16.5  | 24.7  |
| 203     | 18.2  | 13.9  | 20.9  |



#79  
 Terphenyl-d14  
 Concen: 7.019 ng  
 RT: 19.81 min Scan# 2860  
 Delta R.T. 0.00 min  
 Lab File: BM020162.D  
 Acq: 07 May 2019 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 5.7   | 8.5   |
| 122     | 7.6   | 6.2   | 9.2   |



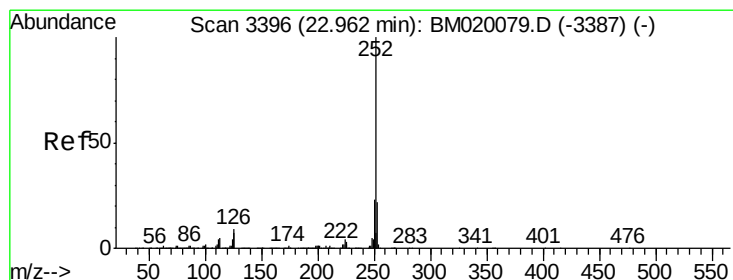
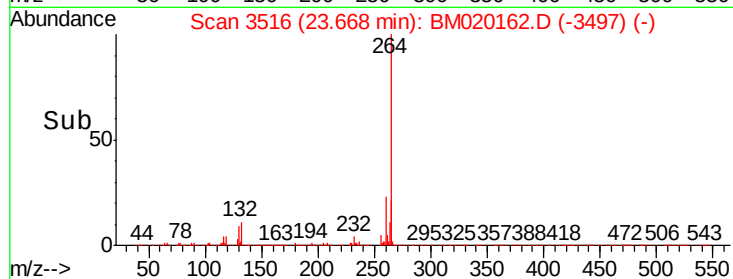
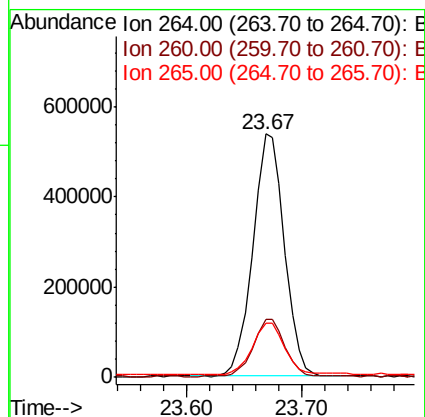
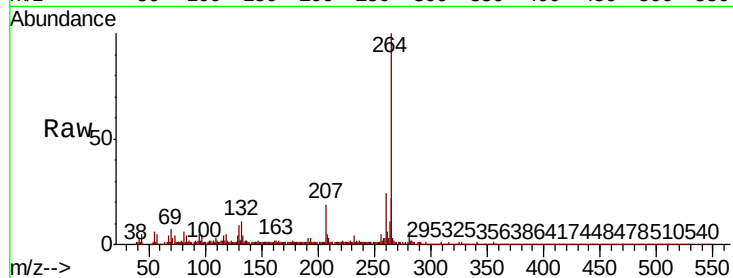


#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 23.67 min Scan# 3516  
Delta R.T. 0.01 min  
Lab File: BM020162.D  
Acq: 07 May 2019 10:03

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:264 Resp: 1021248  

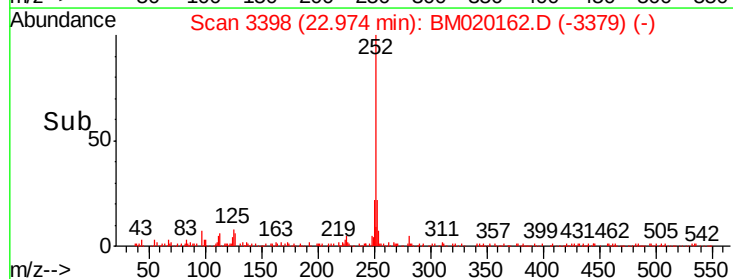
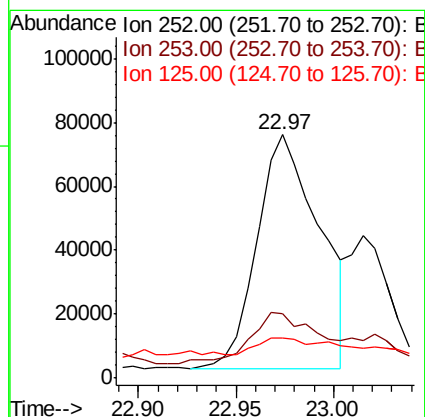
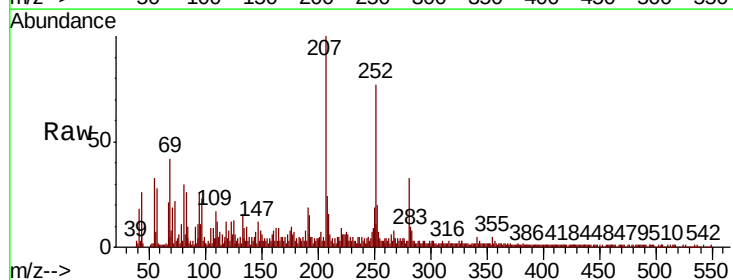
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.7  | 19.2  | 28.8  |
| 265 | 22.1  | 16.9  | 25.3  |

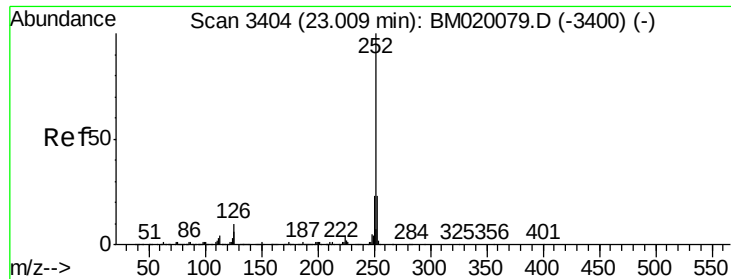


#88  
Benzo(b)fluoranthene  
Concen: 2.409 ng  
RT: 22.97 min Scan# 3398  
Delta R.T. 0.01 min  
Lab File: BM020162.D  
Acq: 07 May 2019 10:03

Tgt Ion:252 Resp: 162429  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 26.3  | 17.5  | 26.3# |
| 125 | 16.4  | 5.4   | 8.2#  |





#89

Benzo(k)fluoranthene

Concen: 2.596 ng

RT: 22.97 min Scan# 3398

Delta R.T. -0.04 min

Lab File: BM020162.D

Acq: 07 May 2019 10:03

Instrument :

BNA\_M

ClientSampleId :

Tot Ion:252 Resp: 159710

Ion Ratio Lower Upper

252 100

253 26.3 17.8 26.8

125 16.4 5.4 8.0#

