

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051019\  
 Data File : BM020257.D  
 Acq On : 11 May 2019 02:06  
 Operator : JU/SJ  
 Sample : K2801-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 RT-3456

Quant Time: May 11 05:54:09 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

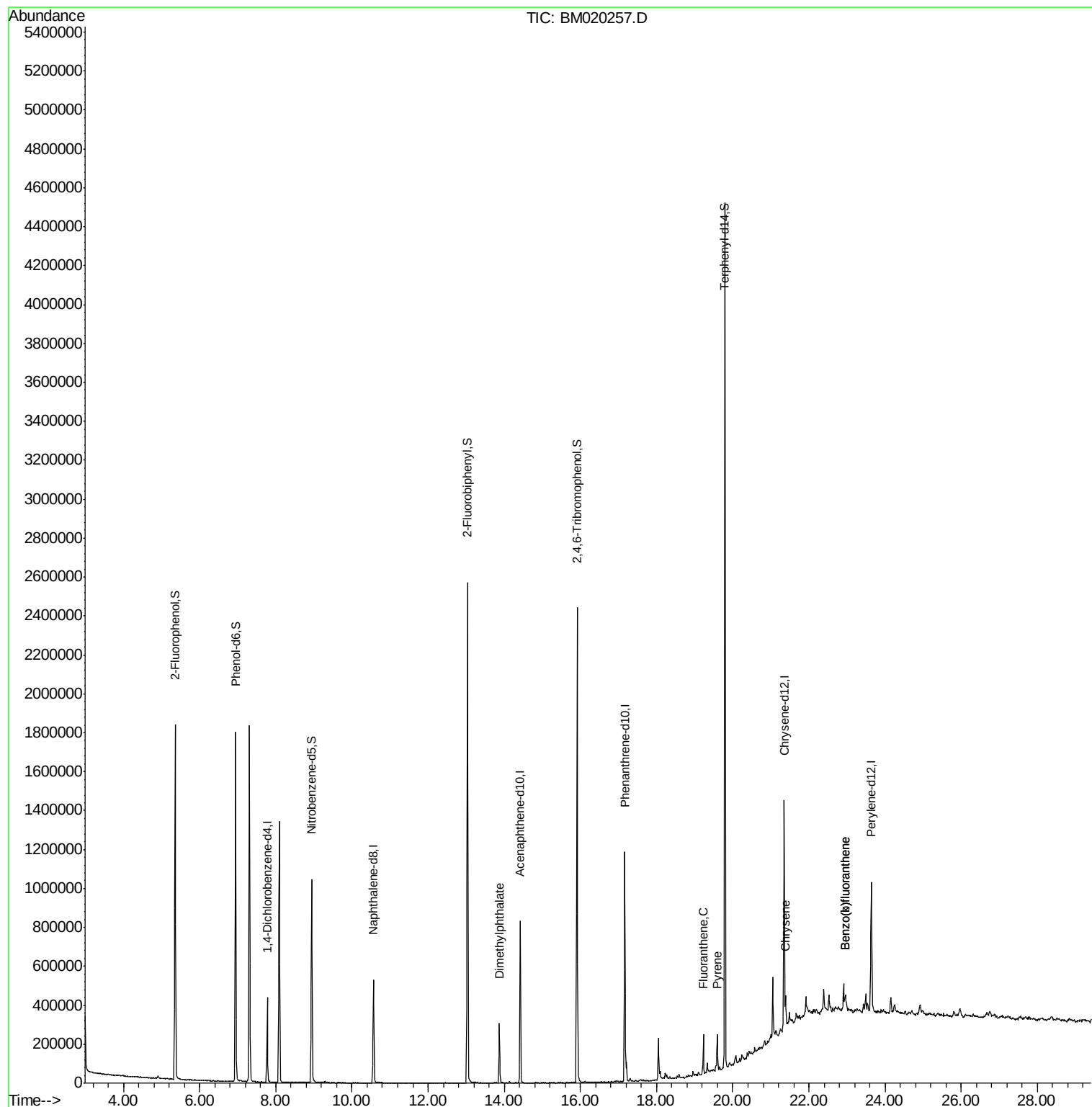
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.78  | 152  | 111333   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.57 | 136  | 427978   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10        | 14.42 | 164  | 277395   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10        | 17.17 | 188  | 664858   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12            | 21.35 | 240  | 517500   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12            | 23.64 | 264  | 506474   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.36  | 112  | 708527   | 104.03 | ng    | -0.01    |
| 7) Phenol-d6                | 6.95  | 99   | 1000129  | 107.48 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.94  | 82   | 689901   | 63.64  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 15.92 | 330  | 477965   | 111.01 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.04 | 172  | 1347577  | 59.77  | ng    | -0.02    |
| 79) Terphenyl-d14           | 19.79 | 244  | 2132375  | 71.87  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 50) Dimethylphthalate       | 13.87 | 163  | 185249   | 7.857  | ng    | 98       |
| 75) Fluoranthene            | 19.23 | 202  | 120229   | 2.589  | ng    | 98       |
| 78) Pyrene                  | 19.59 | 202  | 113858   | 3.277  | ng    | 99       |
| 83) Chrysene                | 21.39 | 228  | 84341    | 2.396  | ng    | 100      |
| 88) Benzo(b)fluoranthene    | 22.95 | 252  | 70122    | 2.097  | ng    | # 88     |
| 89) Benzo(k)fluoranthene    | 22.95 | 252  | 68299    | 2.239  | ng    | # 88     |

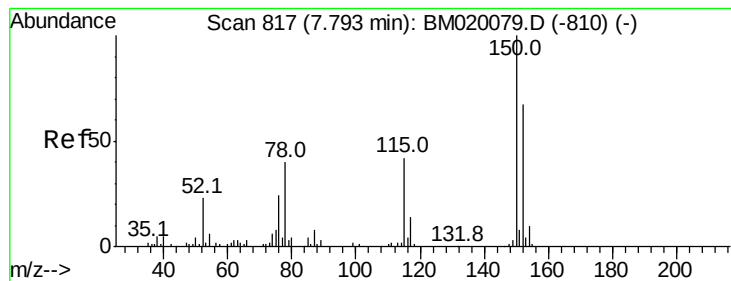
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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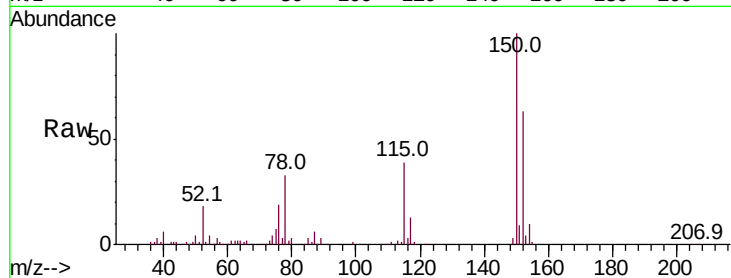


#1

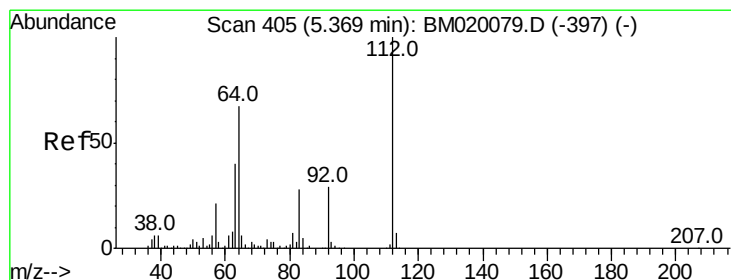
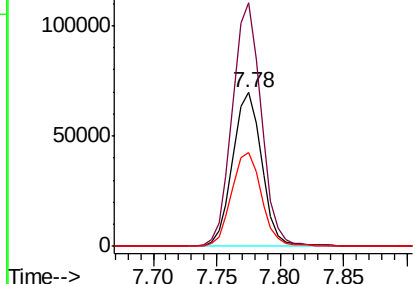
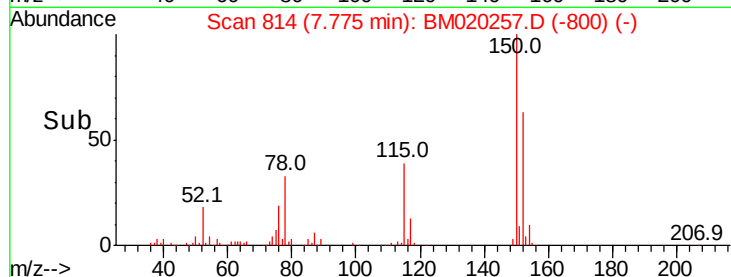
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.78 min Scan# 814  
Delta R.T. -0.02 min  
Lab File: BM020257.D  
Acq: 11 May 2019 02:06

Instrument :  
BNA\_M  
ClientSampled :  
RT-3456

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.3 | 119.8 | 179.8 |
| 115     | 61.1  | 50.8  | 76.2  |



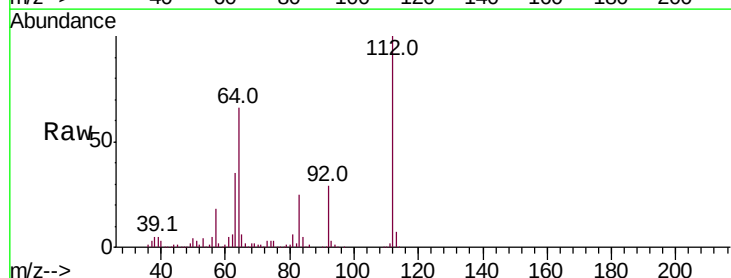
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



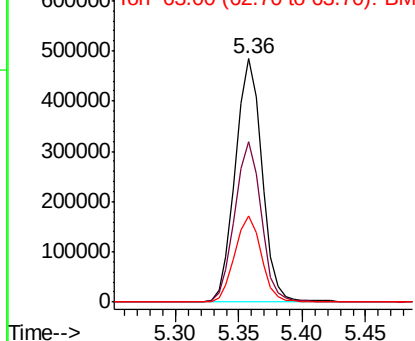
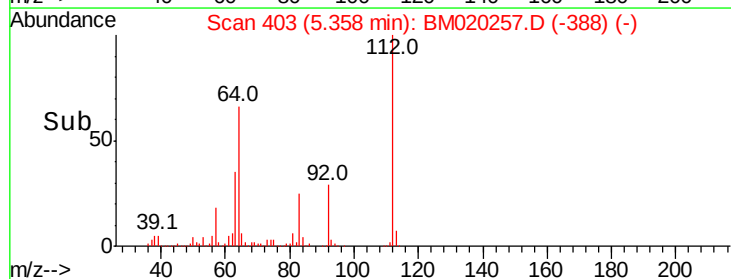
#5

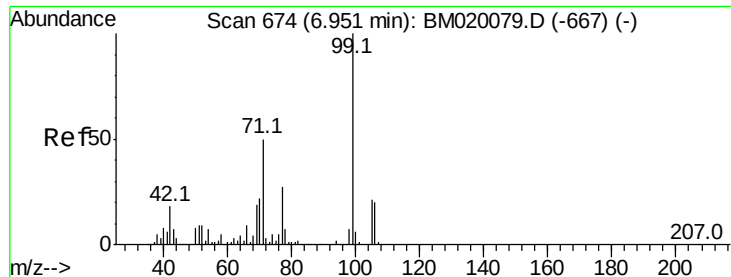
2-Fluorophenol  
Concen: 104.026 ng  
RT: 5.36 min Scan# 403  
Delta R.T. -0.01 min  
Lab File: BM020257.D  
Acq: 11 May 2019 02:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 65.9  | 53.8  | 80.6  |
| 63      | 35.2  | 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: 107.485 ng

RT: 6.95 min Scan# 673

Delta R.T. -0.01 min

Lab File: BM020257.D

Acq: 11 May 2019 02:06

Instrument :

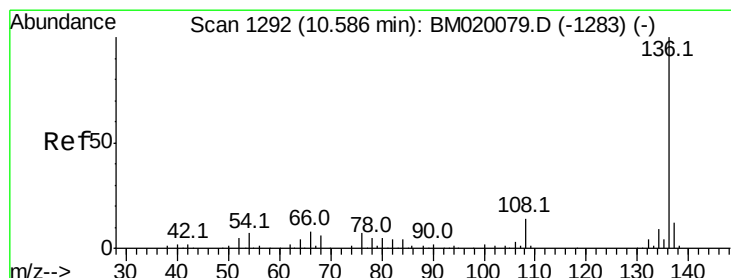
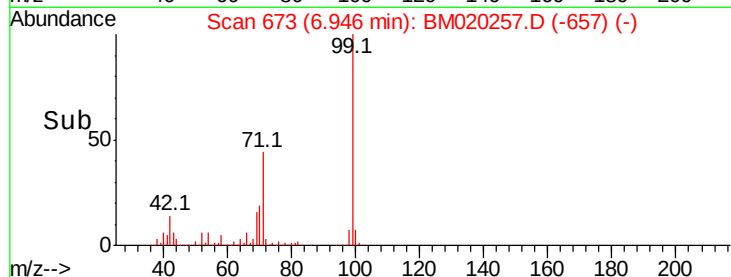
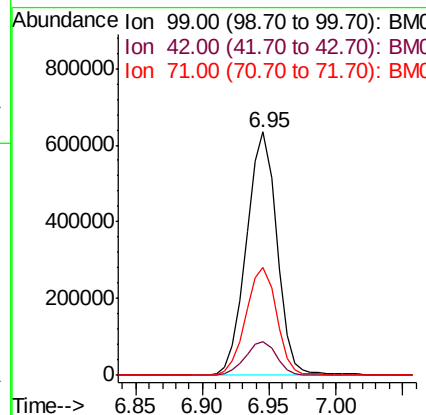
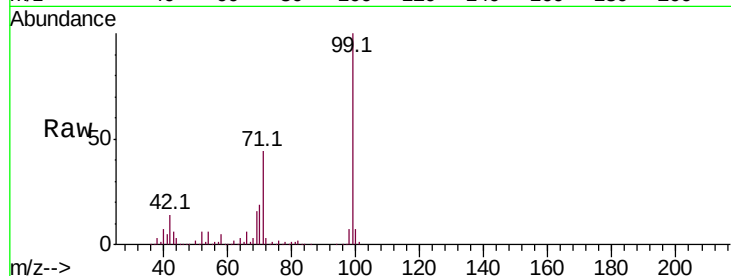
BNA\_M

ClientSampleId :

RT-3456

Tot Ion: 99 Resp: 1000129

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 14.1  | 14.2  | 21.2# |
| 71  | 44.1  | 40.3  | 60.5  |



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.57 min Scan# 1289

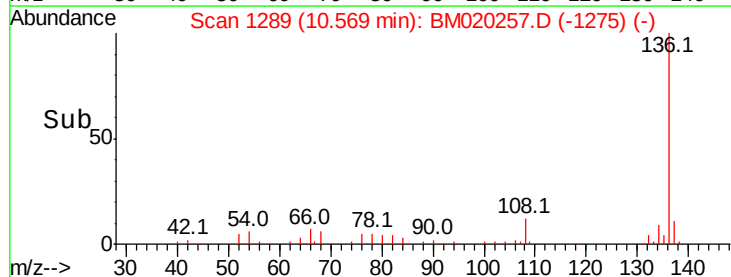
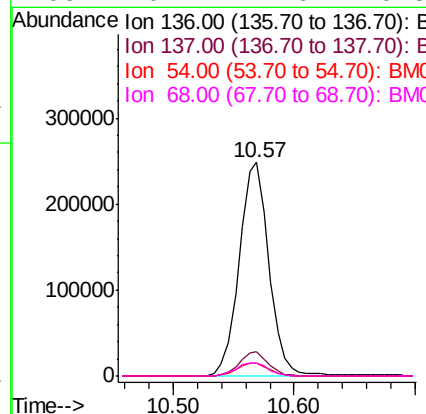
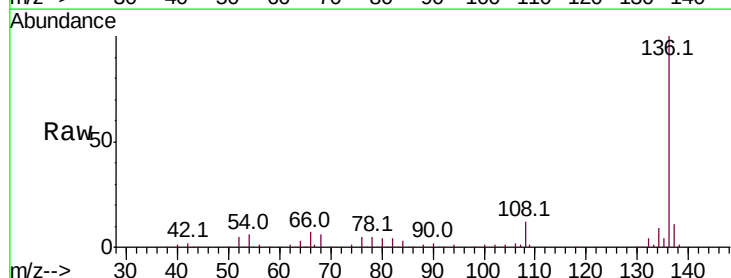
Delta R.T. -0.02 min

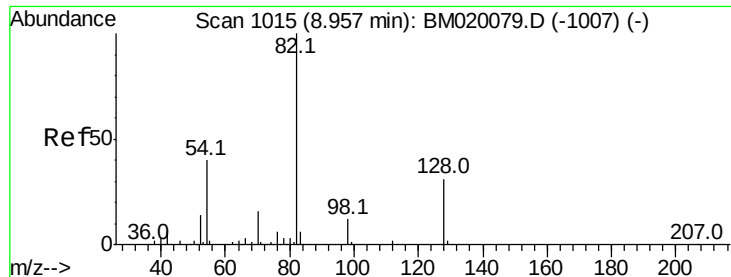
Lab File: BM020257.D

Acq: 11 May 2019 02:06

Tgt Ion: 136 Resp: 427978

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.2  | 9.6   | 14.4  |
| 54  | 6.0   | 5.5   | 8.3   |
| 68  | 6.1   | 4.6   | 6.8   |

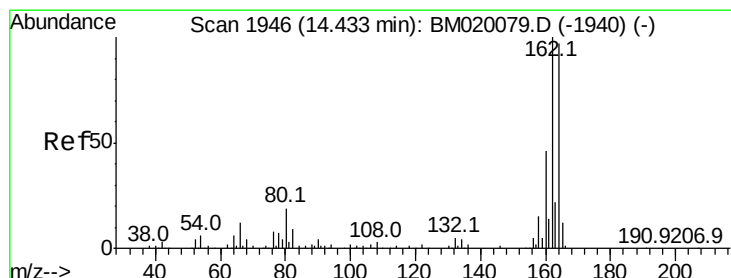
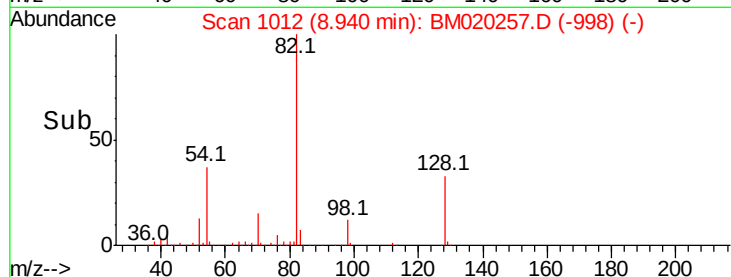
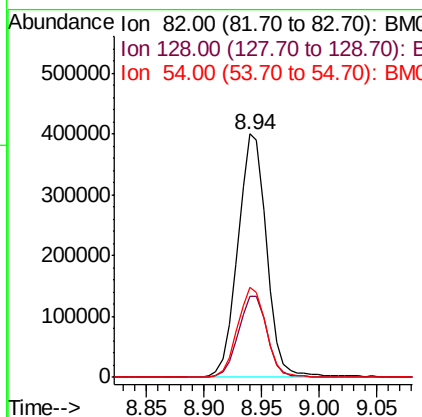
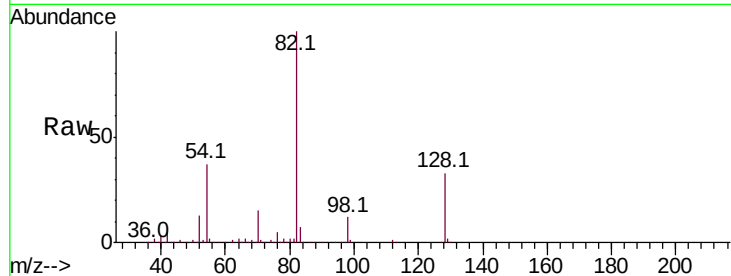




#23  
Nitrobenzene-d5  
Concen: 63.642 ng  
RT: 8.94 min Scan# 1012  
Delta R.T. -0.02 min  
Lab File: BM020257.D  
Acq: 11 May 2019 02:06

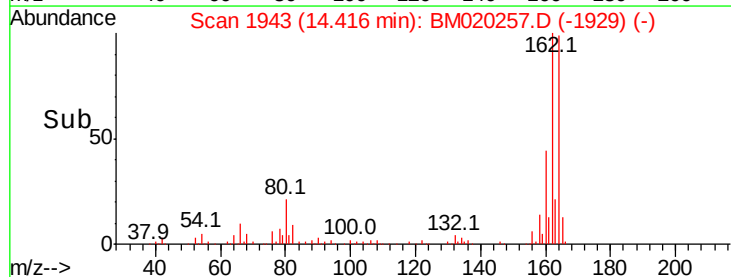
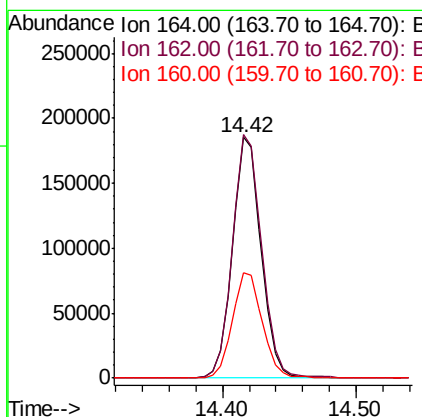
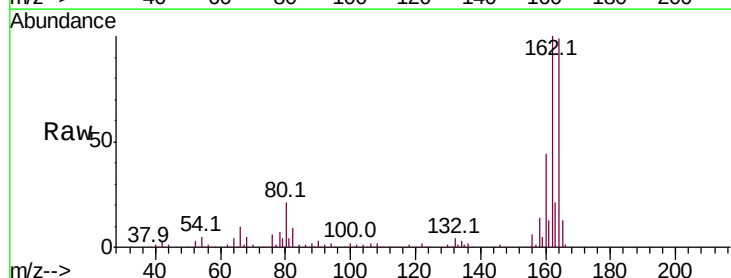
Instrument :  
BNA\_M  
ClientSampleId :  
RT-3456

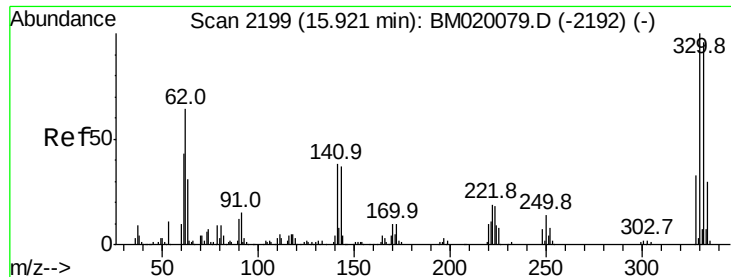
| Tot Ion   | 82   | Resp  | 689901 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 33.4 | 25.2  | 37.8   |
| 54        | 36.8 | 31.9  | 47.9   |



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.42 min Scan# 1943  
Delta R.T. -0.02 min  
Lab File: BM020257.D  
Acq: 11 May 2019 02:06

| Tgt Ion   | 164   | Resp  | 277395 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 162       | 101.0 | 82.2  | 123.2  |
| 160       | 44.0  | 37.6  | 56.4   |

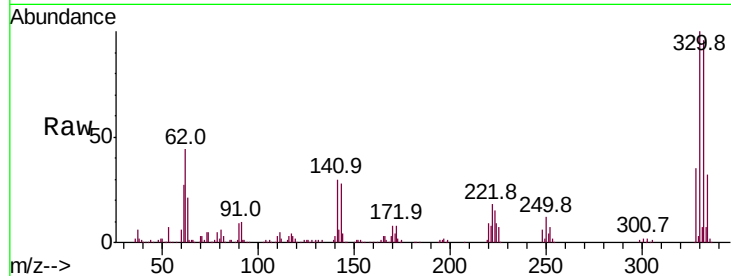




#42  
 2,4,6-Tribromophenol  
 Concen: 111.008 ng  
 RT: 15.92 min Scan# 2198  
 Delta R.T. -0.01 min  
 Lab File: BM020257.D  
 Acq: 11 May 2019 02:06

Instrument :  
 BNA\_M  
 ClientSampleId :  
 RT-3456

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.9  | 76.8  | 115.2 |
| 141     | 31.8  | 29.2  | 43.8  |

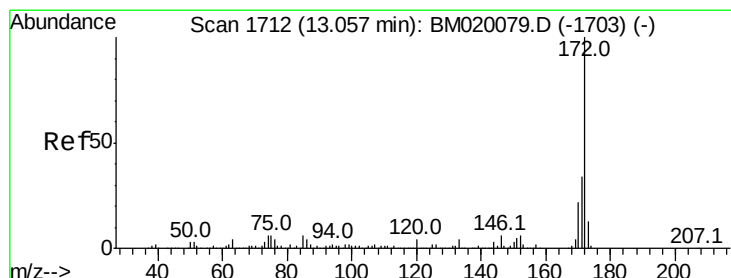
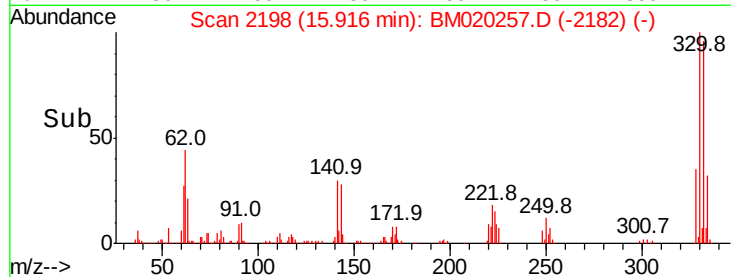
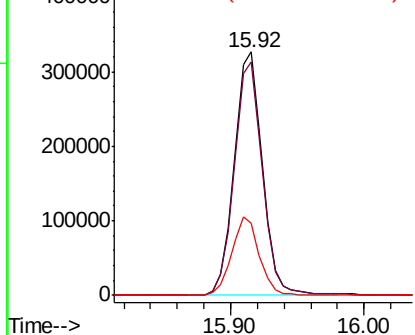


Abundance

Ion 329.80 (329.50 to 330.50): E

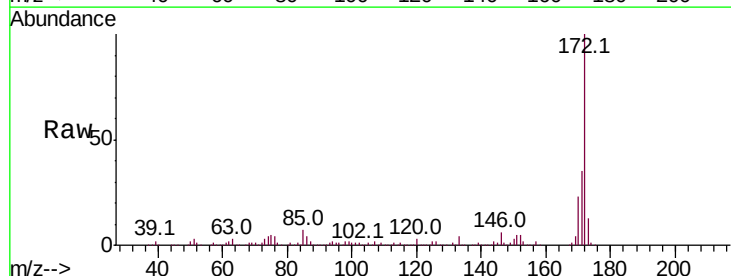
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 59.771 ng  
 RT: 13.04 min Scan# 1709  
 Delta R.T. -0.02 min  
 Lab File: BM020257.D  
 Acq: 11 May 2019 02:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.1  | 27.3  | 40.9  |
| 170     | 22.9  | 17.9  | 26.9  |

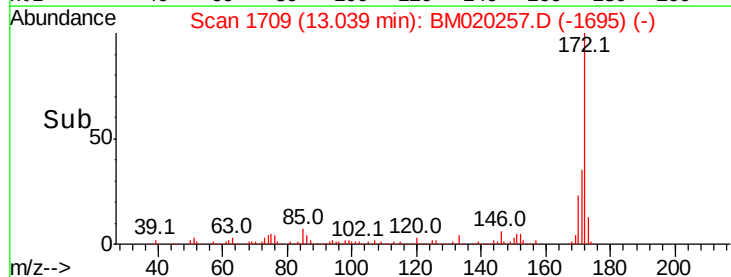
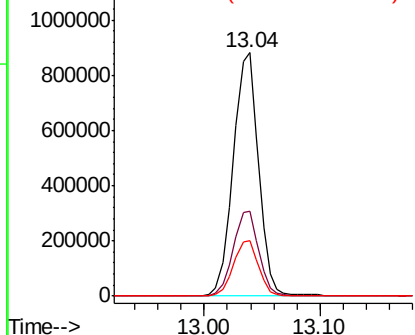


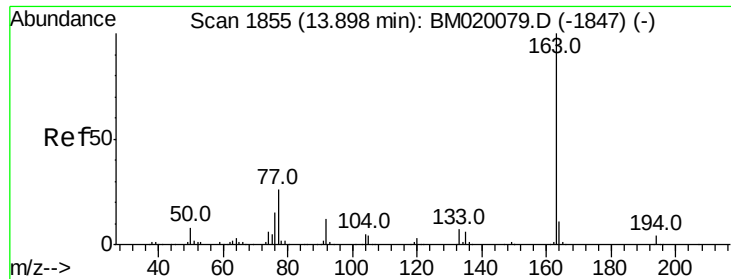
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 7.857 ng

RT: 13.87 min Scan# 1851

Delta R.T. -0.02 min

Lab File: BM020257.D

Acq: 11 May 2019 02:06

Instrument :

BNA\_M

ClientSampleId :

RT-3456

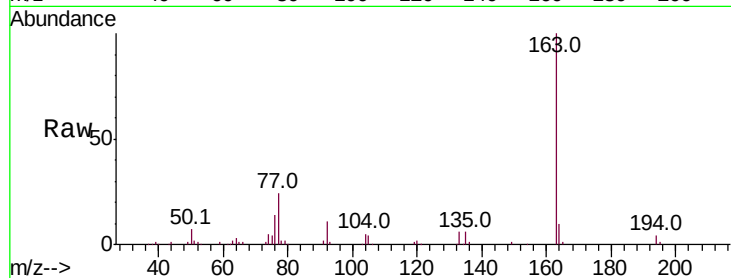
Tot Ion:163 Resp: 185249

Ion Ratio Lower Upper

163 100

194 4.3 3.6 5.4

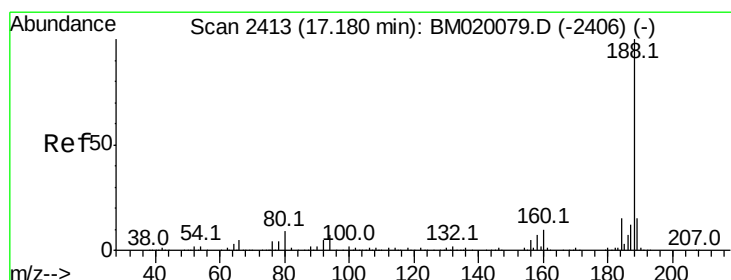
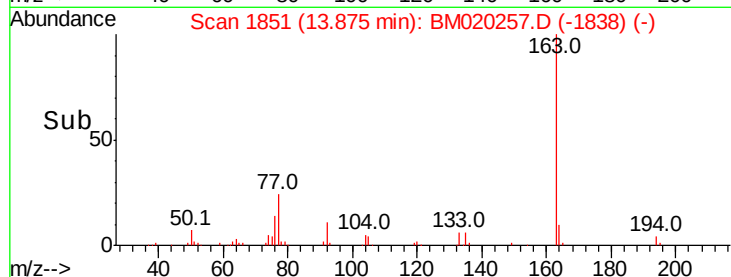
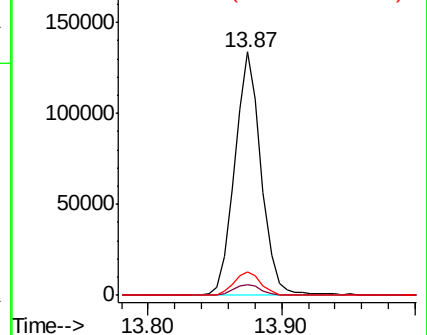
164 9.7 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.17 min Scan# 2411

Delta R.T. -0.01 min

Lab File: BM020257.D

Acq: 11 May 2019 02:06

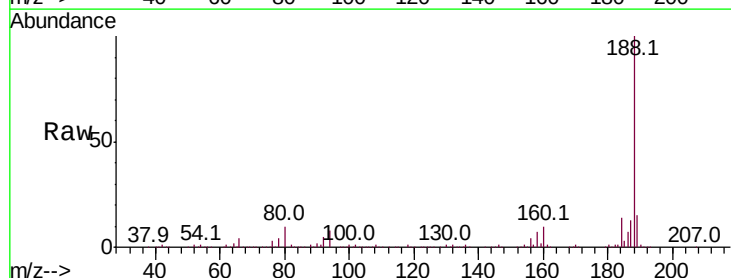
Tgt Ion:188 Resp: 664858

Ion Ratio Lower Upper

188 100

94 7.5 5.8 8.6

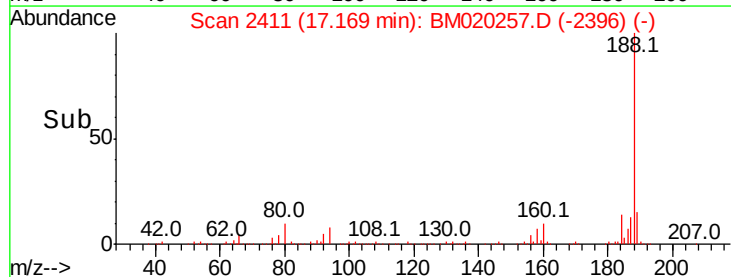
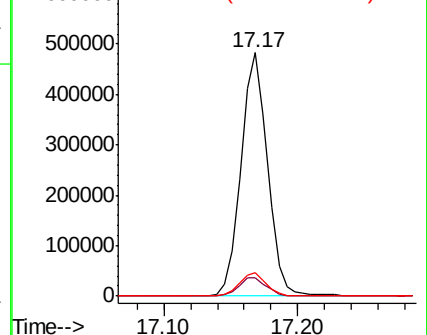
80 9.6 7.4 11.2

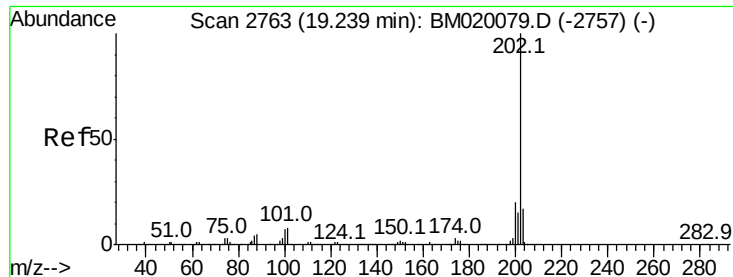


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0





#75

Fluoranthene

Concen: 2.589 ng

RT: 19.23 min Scan# 2761

Delta R.T. -0.01 min

Lab File: BM020257.D

Acq: 11 May 2019 02:06

Instrument :

BNA\_M

ClientSampleId :

RT-3456

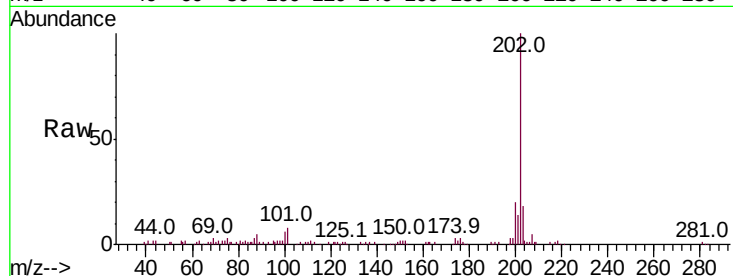
Tot Ion:202 Resp: 120229

Ion Ratio Lower Upper

202 100

101 7.8 0.0 28.4

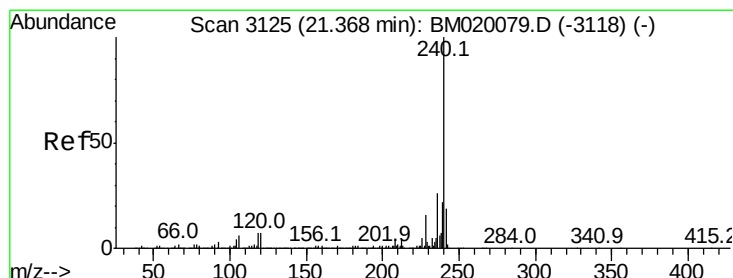
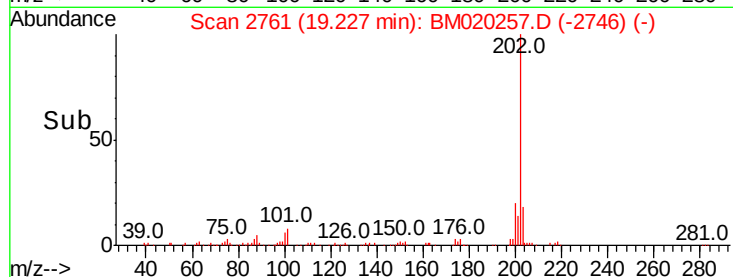
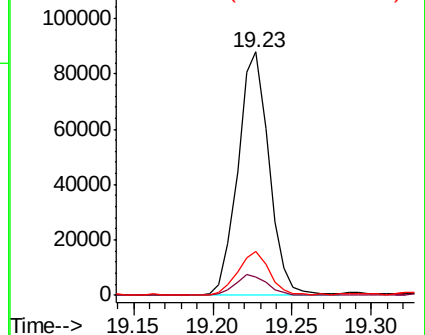
203 18.3 0.0 37.4



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: 21.35 min Scan# 3122

Delta R.T. -0.02 min

Lab File: BM020257.D

Acq: 11 May 2019 02:06

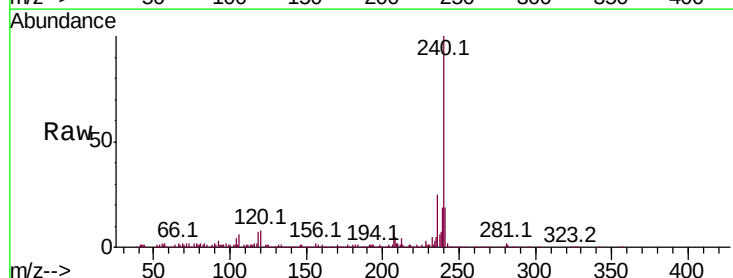
Tgt Ion:240 Resp: 517500

Ion Ratio Lower Upper

240 100

120 8.2 5.6 8.4

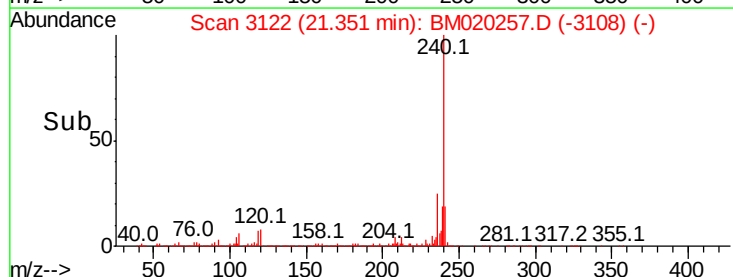
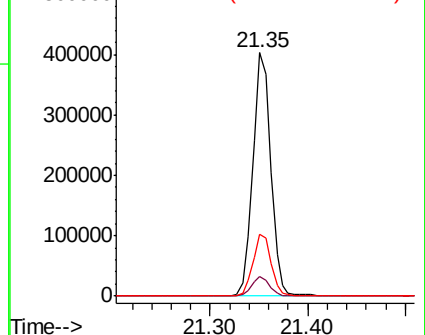
236 25.2 20.9 31.3



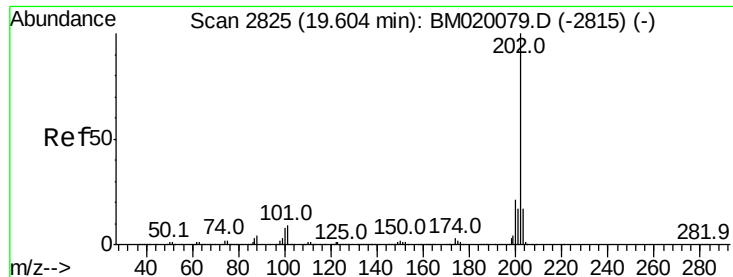
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



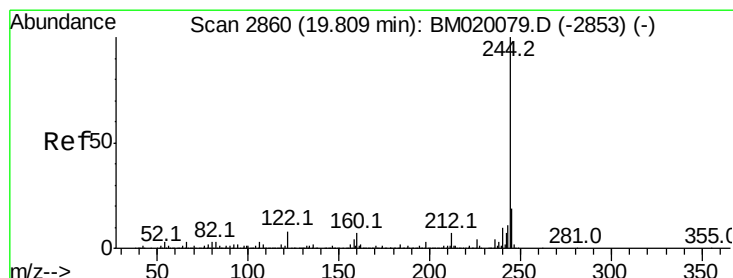
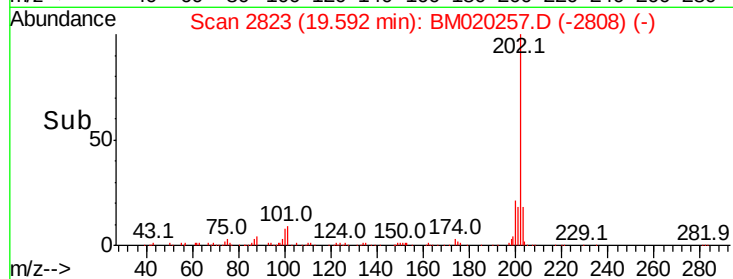
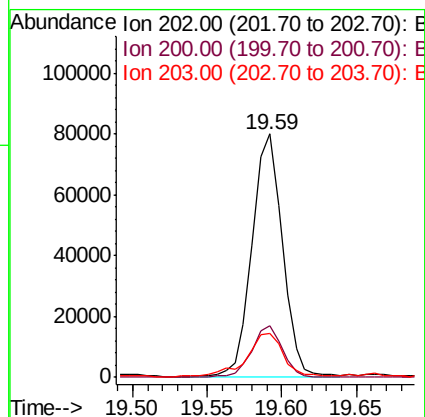
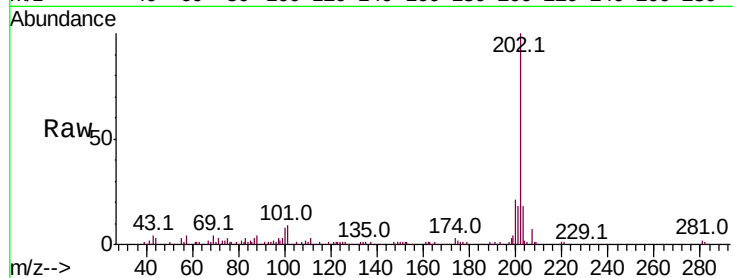




#78  
Pvrene  
Concen: 3.277 ng  
RT: 19.59 min Scan# 2823  
Delta R.T. -0.01 min  
Lab File: BM020257.D  
Acq: 11 May 2019 02:06

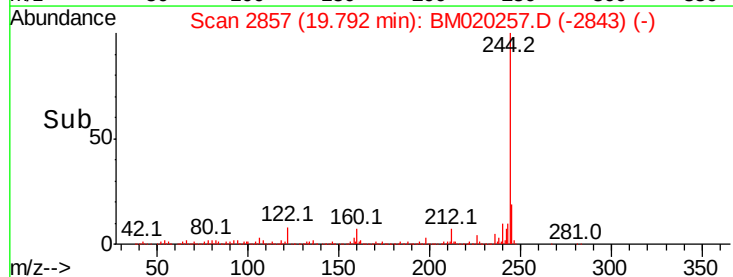
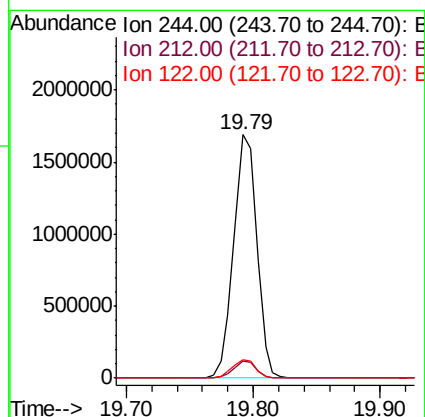
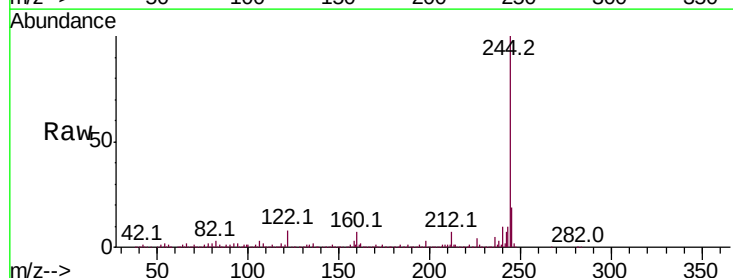
Instrument :  
BNA\_M  
ClientSampleId :  
RT-3456

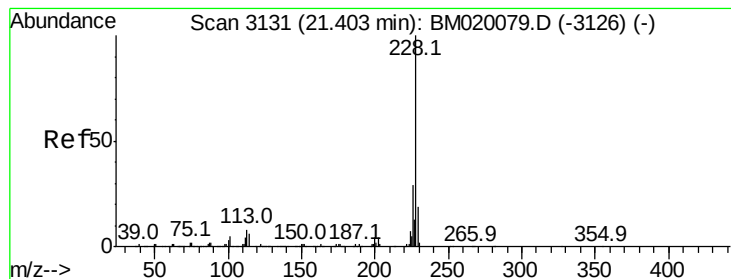
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.0  | 16.5  | 24.7  |
| 203     | 18.0  | 13.9  | 20.9  |



#79  
Terphenyl-d14  
Concen: 71.871 ng  
RT: 19.79 min Scan# 2857  
Delta R.T. -0.02 min  
Lab File: BM020257.D  
Acq: 11 May 2019 02:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 5.7   | 8.5   |
| 122     | 7.7   | 6.2   | 9.2   |





#83

Chrysene

Concen: 2.396 ng

RT: 21.39 min Scan# 3128

Delta R.T. -0.02 min

Lab File: BM020257.D

Acq: 11 May 2019 02:06

Instrument :

BNA\_M

ClientSampleId :

RT-3456

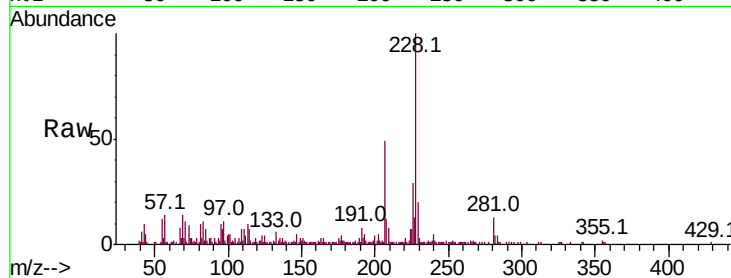
Tot Ion:228 Resp: 84341

Ion Ratio Lower Upper

228 100

226 28.5 23.0 34.6

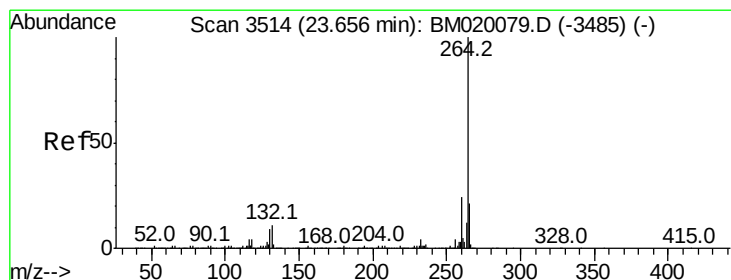
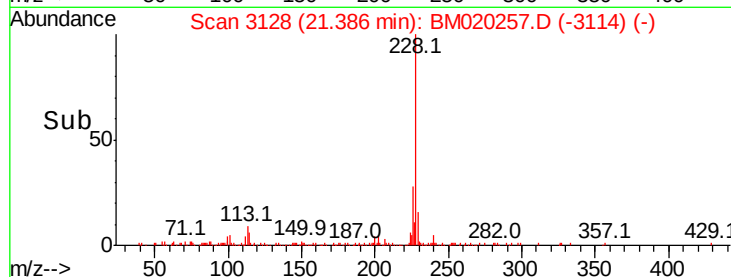
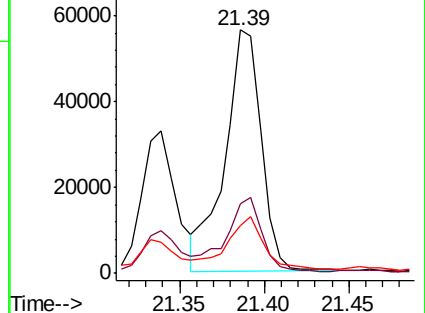
229 19.6 15.5 23.3



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 23.64 min Scan# 3511

Delta R.T. -0.02 min

Lab File: BM020257.D

Acq: 11 May 2019 02:06

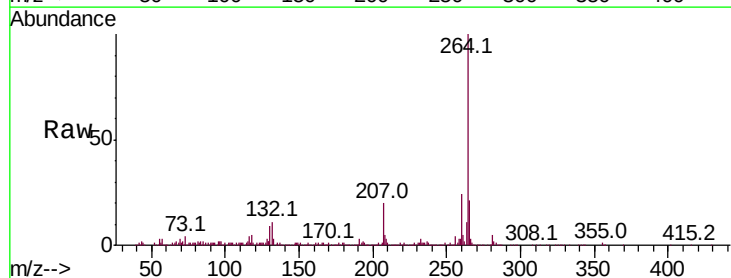
Tgt Ion:264 Resp: 506474

Ion Ratio Lower Upper

264 100

260 23.5 19.2 28.8

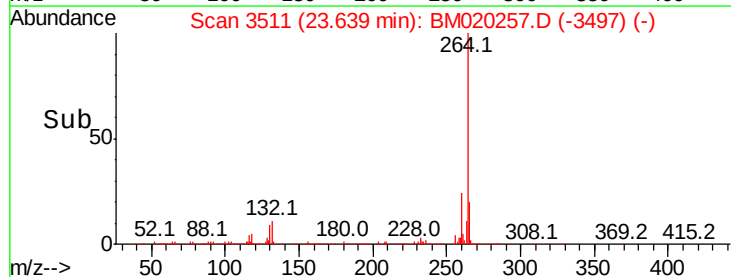
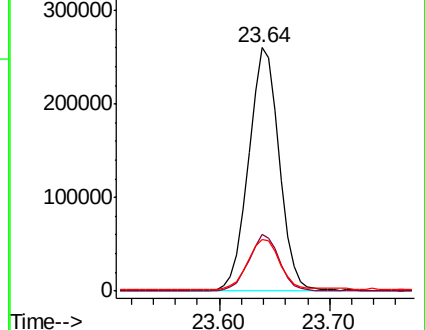
265 21.0 16.9 25.3

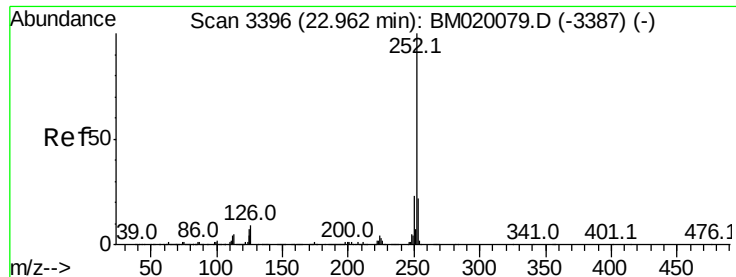


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

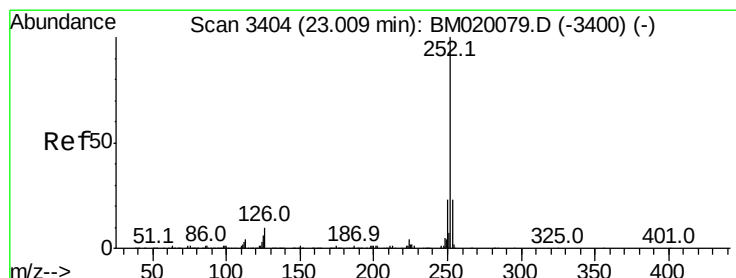
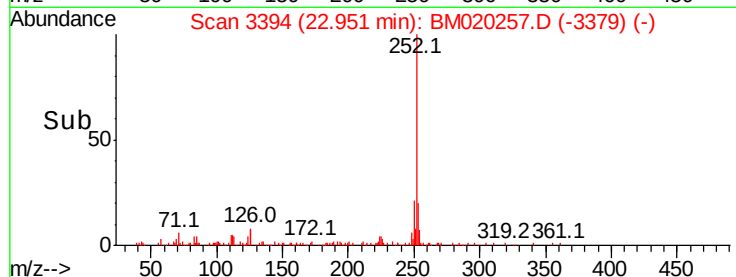
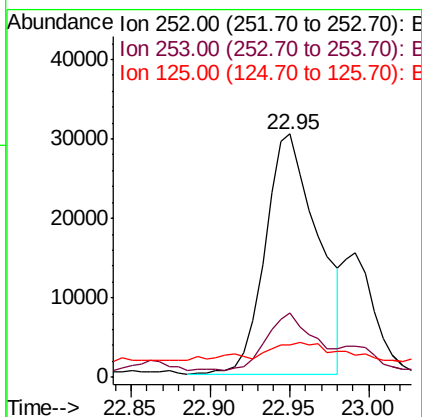
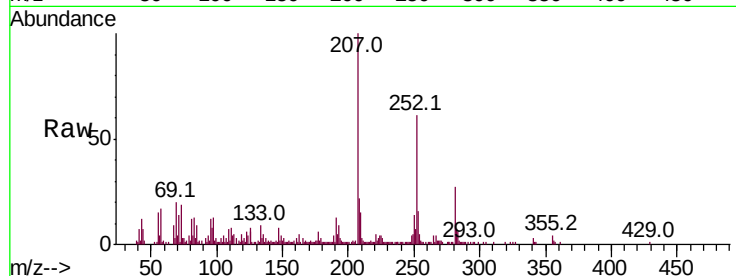




#88  
Benzo(b)fluoranthene  
Concen: 2.097 ng  
RT: 22.95 min Scan# 3394  
Delta R.T. -0.01 min  
Lab File: BM020257.D  
Acq: 11 May 2019 02:06

Instrument :  
BNA\_M  
ClientSampleId :  
RT-3456

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.6  | 17.5  | 26.3# |
| 125     | 13.5  | 5.4   | 8.2#  |



#89  
Benzo(k)fluoranthene  
Concen: 2.239 ng  
RT: 22.95 min Scan# 3394  
Delta R.T. -0.06 min  
Lab File: BM020257.D  
Acq: 11 May 2019 02:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.6  | 17.8  | 26.8  |
| 125     | 13.5  | 5.4   | 8.0#  |

