

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM030320\  
 Data File : BM025295.D  
 Acq On : 05 Mar 2020 19:33  
 Operator : CG/JU  
 Sample : L1543-18  
 Misc :  
 ALS Vial : 91 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Mar 06 02:45:50 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM030320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 04 08:02:03 2020  
 Response via : Initial Calibration

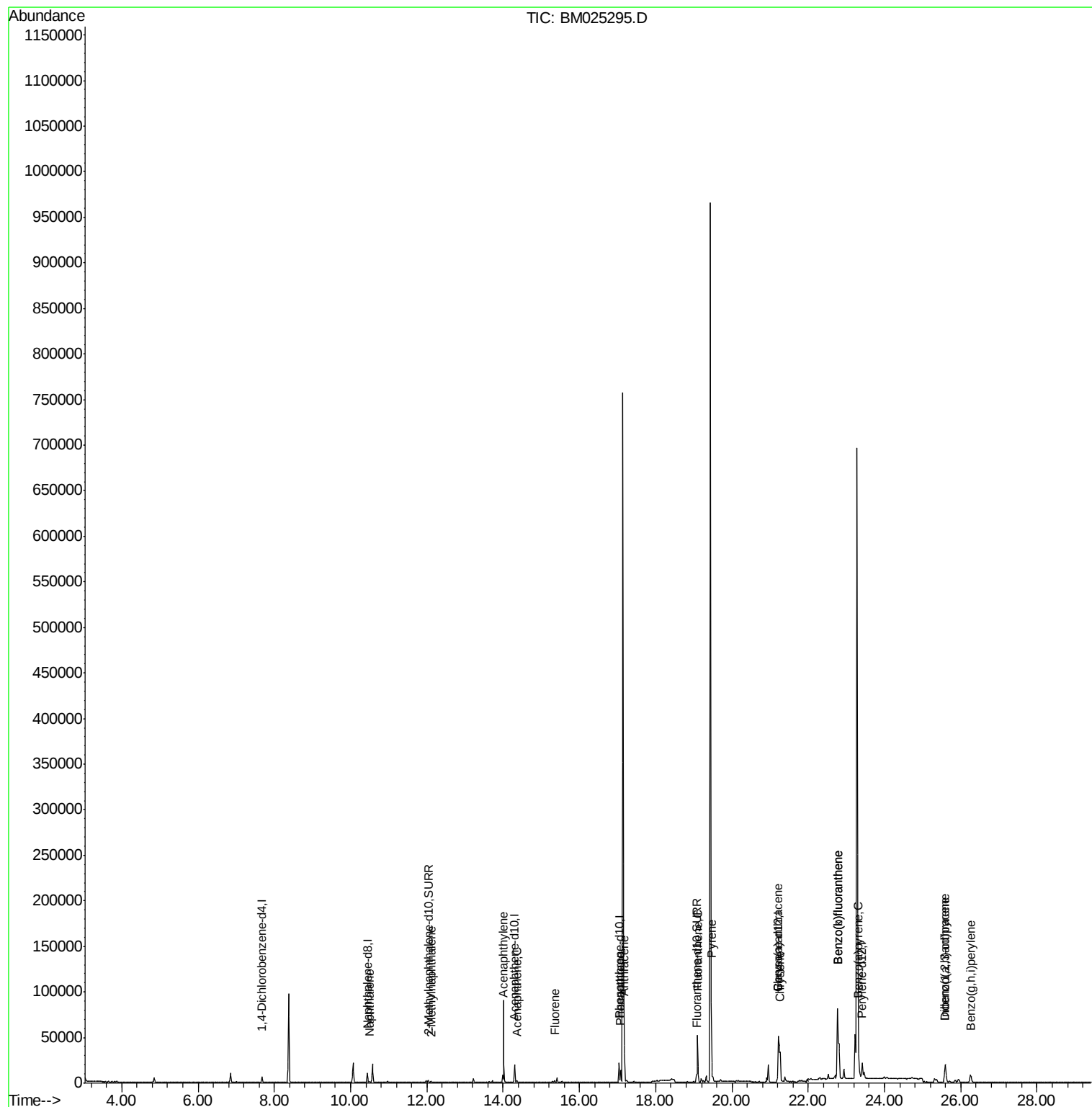
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.67  | 152  | 3331     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.44 | 136  | 14412    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.30 | 164  | 10649    | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.04 | 188  | 25521    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.23 | 240  | 24012    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.42 | 264  | 20995    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.04 | 152  | 3488     | 0.13   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.07 | 212  | 11908    | 0.14   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.49 | 128  | 2131     | 0.049  | ng/ul# | 89       |
| 5) 2-Methylnaphthalene      | 12.11 | 142  | 1014     | 0.032  | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.02 | 152  | 4871     | 0.098  | ng/ul  | 98       |
| 8) Acenaphthene             | 14.36 | 153  | 1486     | 0.038  | ng/ul  | 98       |
| 9) Fluorene                 | 15.35 | 166  | 1806     | 0.037  | ng/ul  | 97       |
| 12) Phenanthrene            | 17.08 | 178  | 13784    | 0.167  | ng/ul  | 97       |
| 13) Anthracene              | 17.17 | 178  | 42933    | 0.588  | ng/ul  | 95       |
| 15) Fluoranthene            | 19.10 | 202  | 46041    | 0.447  | ng/ul  | 95       |
| 17) Pyrene                  | 19.46 | 202  | 56941    | 0.625  | ng/ul  | 95       |
| 18) Benzo(a)anthracene      | 21.21 | 228  | 35734    | 0.405  | ng/ul  | 99       |
| 19) Chrysene                | 21.26 | 228  | 58717    | 0.605  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.77 | 252  | 164495   | 1.958  | ng/ul  | 92       |
| 22) Benzo(k)fluoranthene    | 22.77 | 252  | 164495   | 1.867  | ng/ul# | 93       |
| 23) Benzo(a)pyrene          | 23.32 | 252  | 28884    | 0.410  | ng/ul# | 94       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.59 | 276  | 30048    | 0.342  | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.60 | 278  | 9105     | 0.125  | ng/ul  | 96       |
| 26) Benzo(a,h,i)perylene    | 26.26 | 276  | 17784    | 0.238  | ng/ul# | 93       |

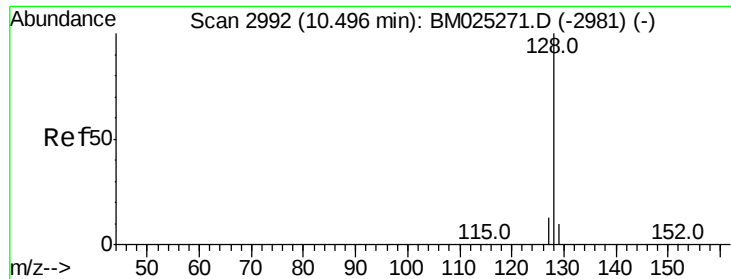
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.049 ng/ul

RT: 10.49 min Scan# 2990

Delta R.T. -0.00 min

Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

Instrument :

BNA\_M

ClientSampleId :

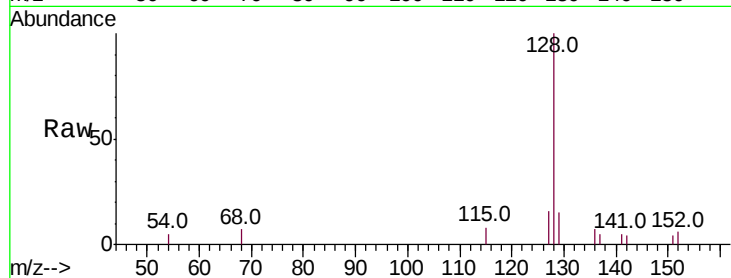
Tot Ion:128 Resp: 2131

Ion Ratio Lower Upper

128 100

129 15.0 17.0 25.6#

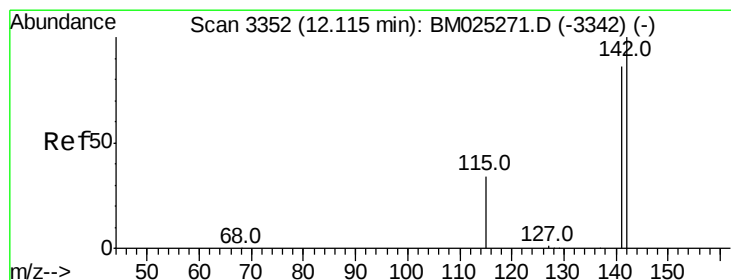
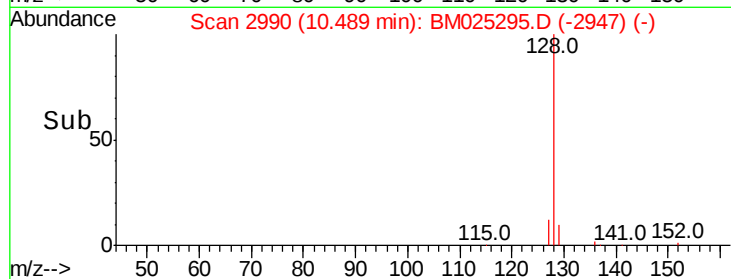
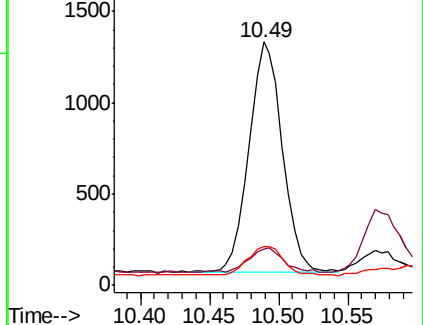
127 15.8 15.7 23.5



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.032 ng/ul

RT: 12.11 min Scan# 3350

Delta R.T. -0.00 min

Lab File: BM025295.D

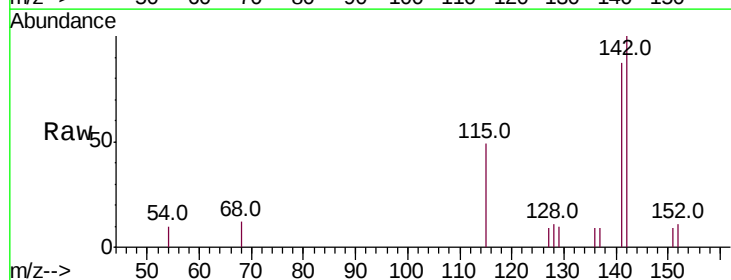
Acq: 05 Mar 2020 19:33

Tgt Ion:142 Resp: 1014

Ion Ratio Lower Upper

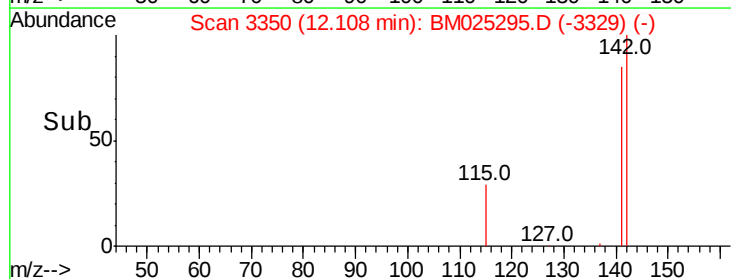
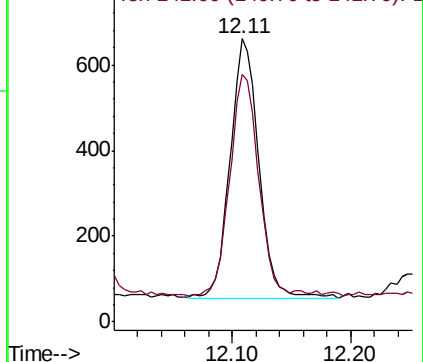
142 100

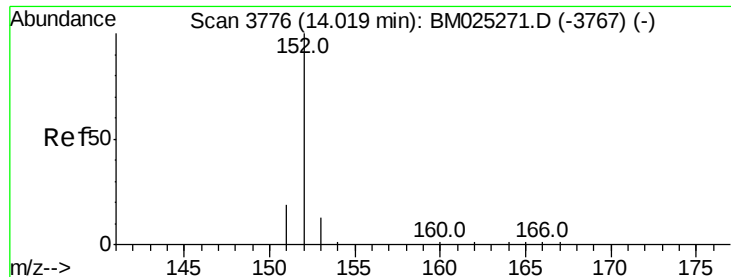
141 87.1 69.8 104.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.098 ng/ul

RT: 14.02 min Scan# 3775

Delta R.T. -0.00 min

Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

Instrument :

BNA\_M

ClientSampleId :

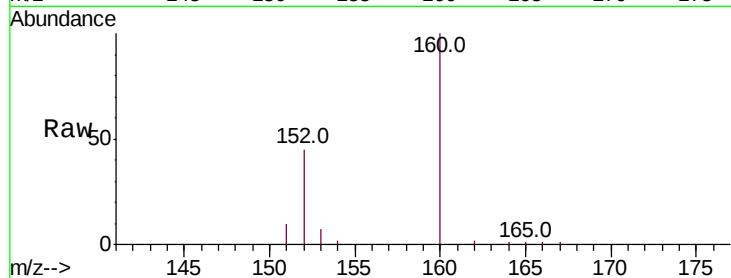
Tot Ion:152 Resp: 4871

Ion Ratio Lower Upper

152 100

151 21.6 17.8 26.8

153 15.4 13.3 19.9

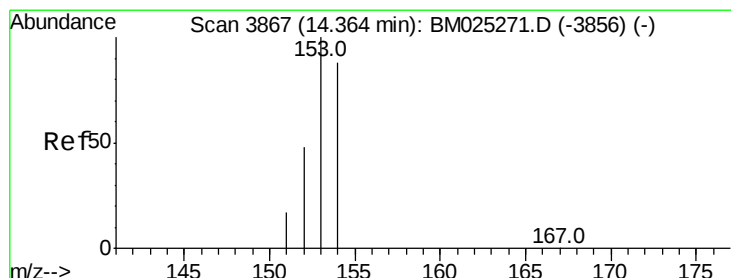
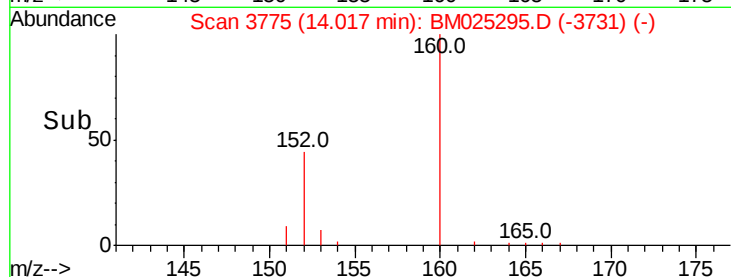
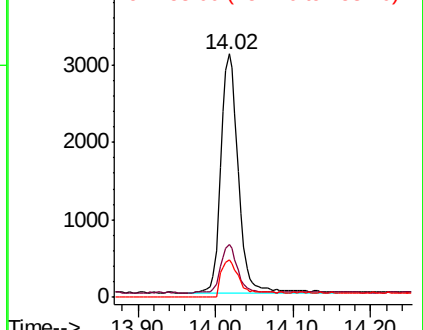


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#8

Acenaphthene

Concen: 0.038 ng/ul

RT: 14.36 min Scan# 3866

Delta R.T. -0.00 min

Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

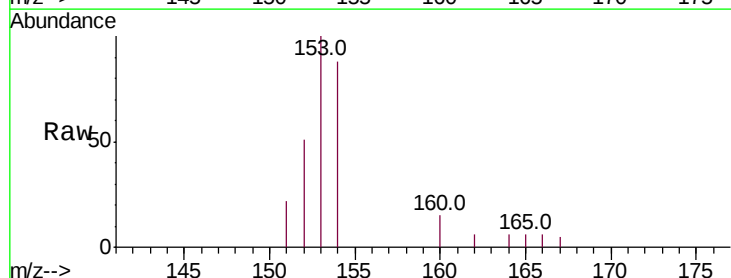
Tgt Ion:153 Resp: 1486

Ion Ratio Lower Upper

153 100

152 51.5 40.0 60.0

154 87.6 71.0 106.6

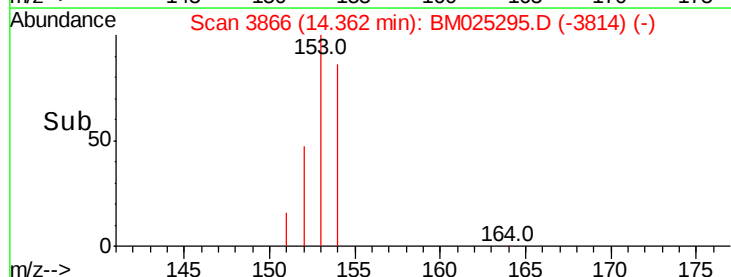
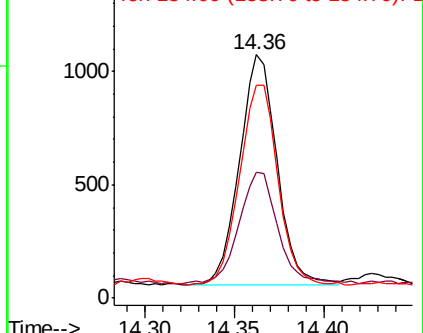


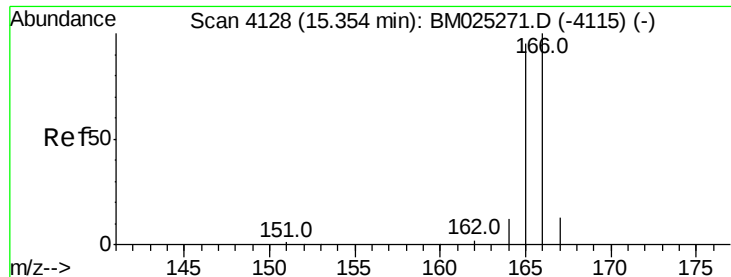
Abundance

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.037 ng/ul

RT: 15.35 min Scan# 4127

Delta R.T. -0.00 min

Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

Instrument :

BNA\_M

ClientSampleId :

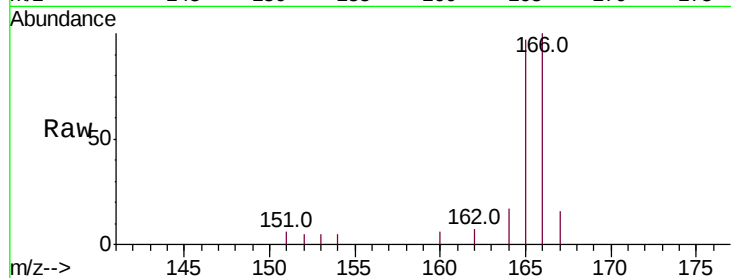
Tot Ion:166 Resp: 1806

Ion Ratio Lower Upper

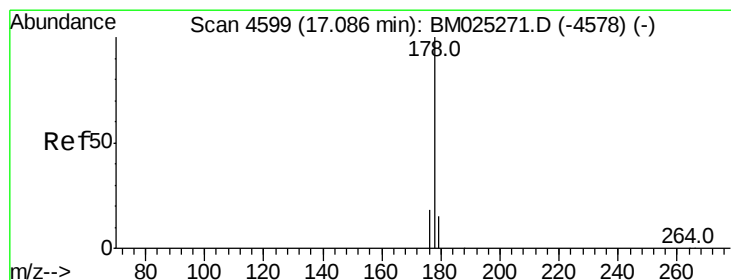
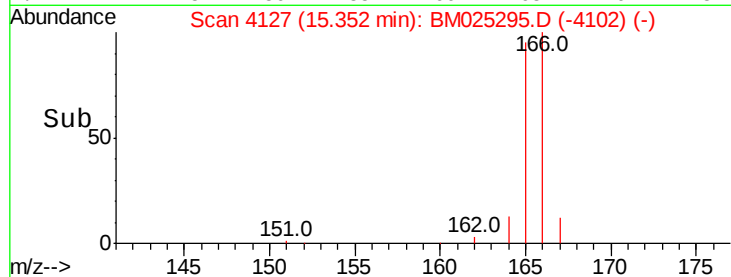
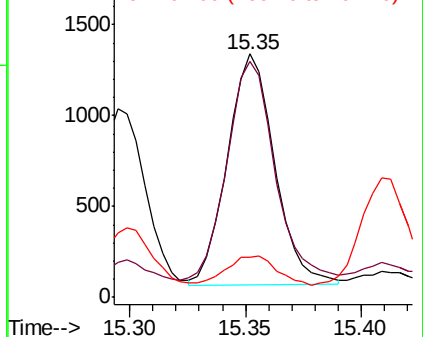
166 100

165 96.9 80.0 120.0

167 16.5 13.7 20.5



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E



#12

Phenanthrene

Concen: 0.167 ng/ul

RT: 17.08 min Scan# 4598

Delta R.T. -0.00 min

Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

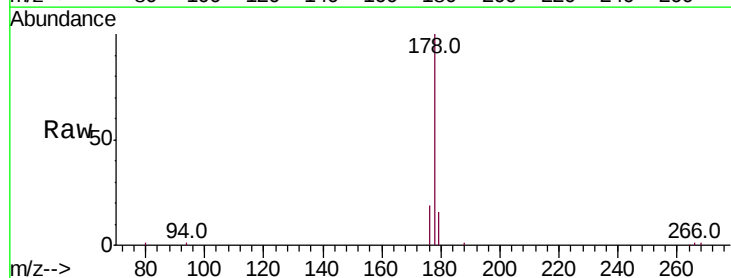
Tgt Ion:178 Resp: 13784

Ion Ratio Lower Upper

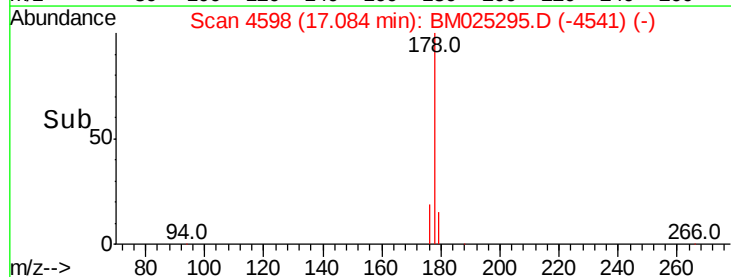
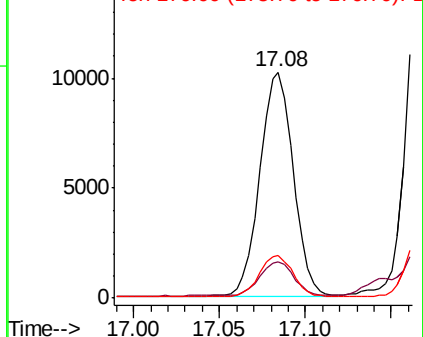
178 100

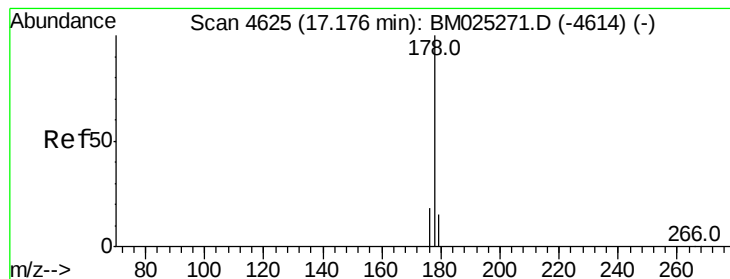
179 16.1 14.0 21.0

176 19.1 16.6 24.8



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E





#13

Anthracene

Concen: 0.588 ng/ul

RT: 17.17 min Scan# 4624

Delta R.T. -0.00 min

Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

Instrument :

BNA\_M

ClientSampleId :

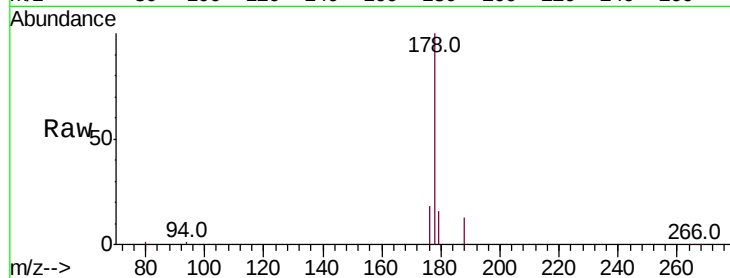
Tot Ion:178 Resp: 42933

Ion Ratio Lower Upper

178 100

179 15.5 14.1 21.1

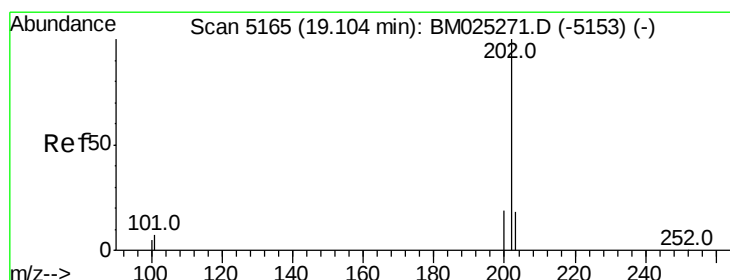
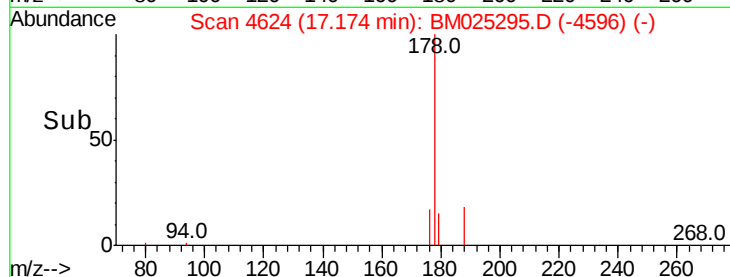
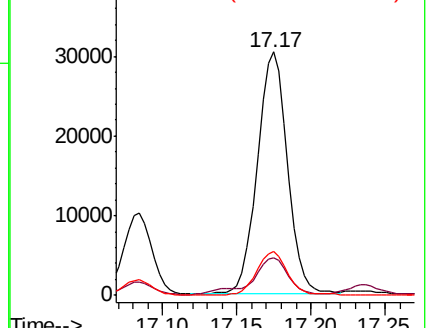
176 18.0 16.2 24.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#15

Fluoranthene

Concen: 0.447 ng/ul

RT: 19.10 min Scan# 5164

Delta R.T. -0.00 min

Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

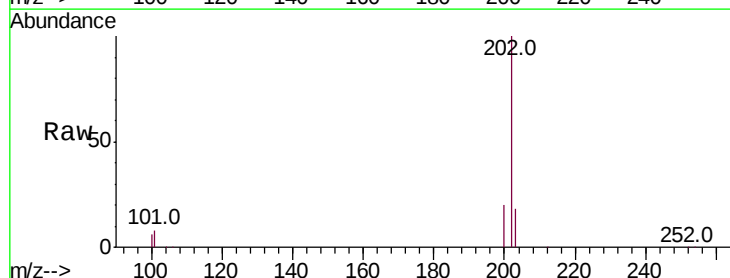
Tgt Ion:202 Resp: 46041

Ion Ratio Lower Upper

202 100

101 7.9 0.0 29.4

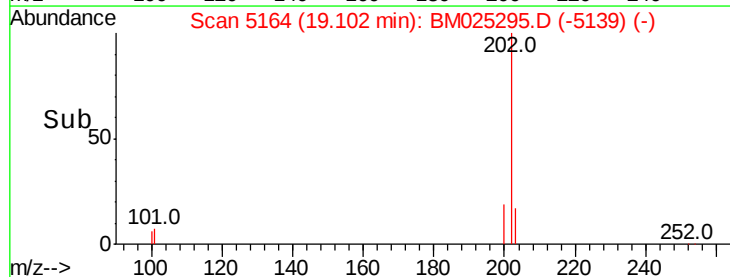
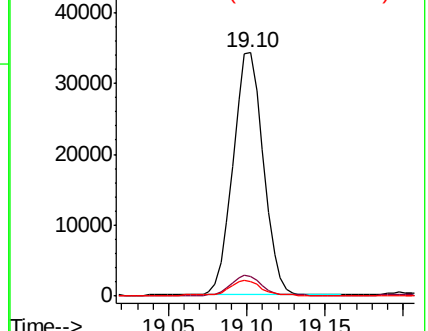
100 5.8 0.0 28.0

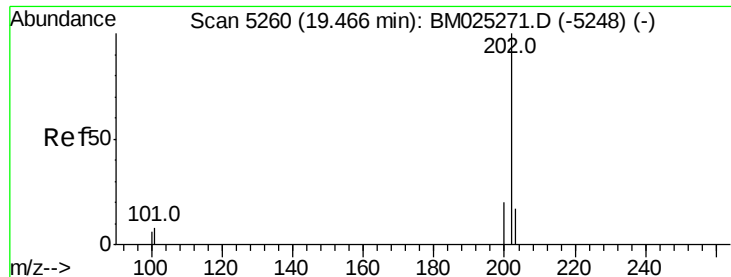


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#17

Pvrene

Concen: 0.625 ng/ul

RT: 19.46 min Scan# 5259

Delta R.T. -0.00 min

Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

Instrument :

BNA\_M

ClientSampleId :

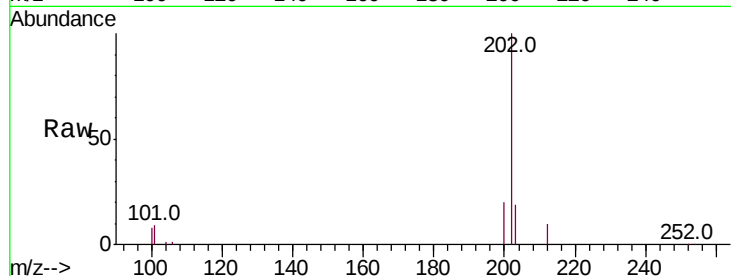
Tot Ion:202 Resp: 56941

Ion Ratio Lower Upper

202 100

101 9.0 8.7 13.1

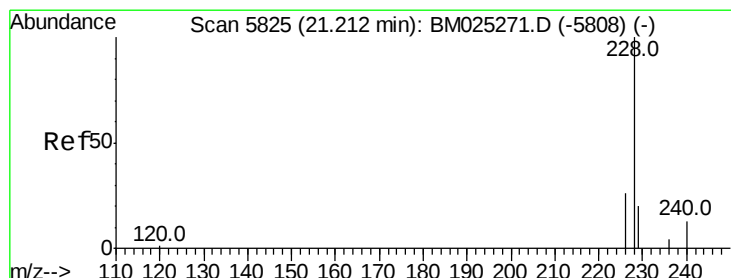
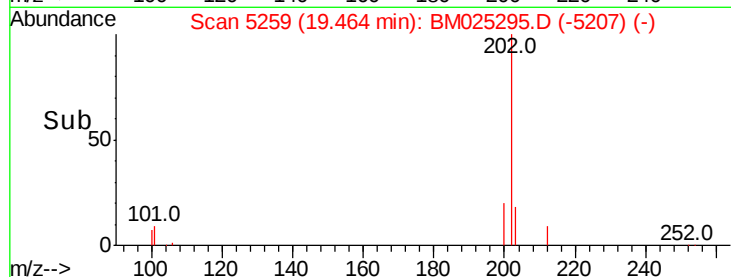
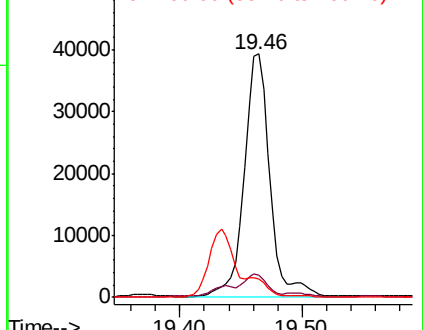
100 7.5 7.3 10.9



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



#18

Benzo(a)anthracene

Concen: 0.405 ng/ul

RT: 21.21 min Scan# 5824

Delta R.T. -0.00 min

Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

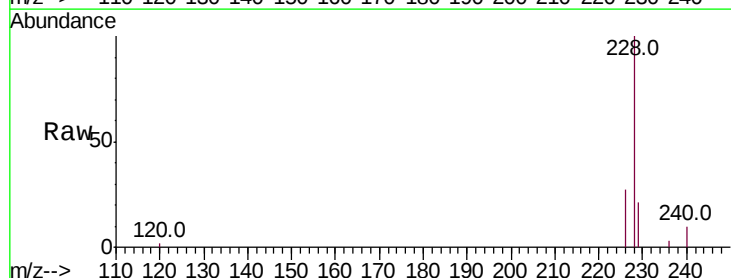
Tgt Ion:228 Resp: 35734

Ion Ratio Lower Upper

228 100

229 21.3 16.6 25.0

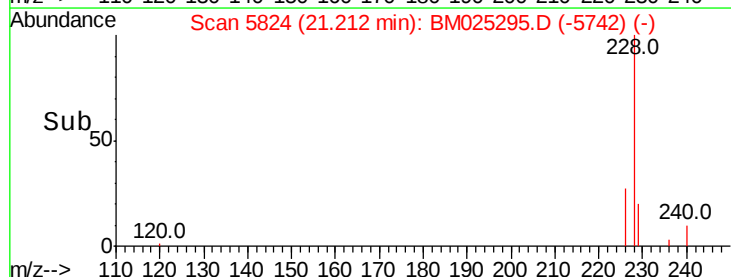
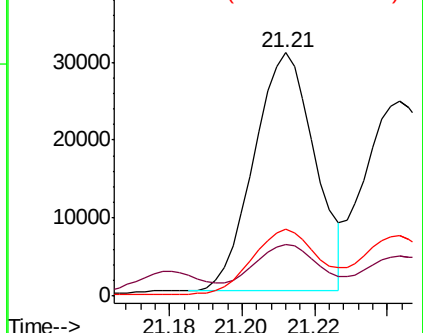
226 27.3 21.9 32.9

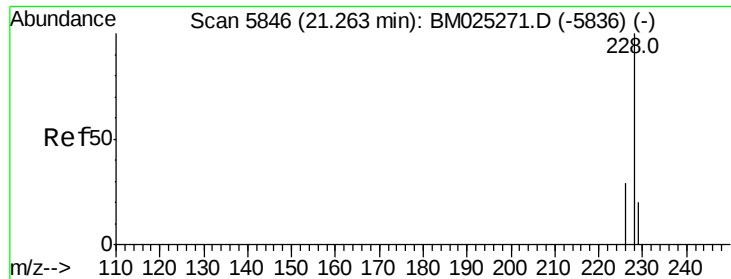


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 0.605 ng/ul

RT: 21.26 min Scan# 5845

Delta R.T. -0.00 min

Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

Instrument :

BNA\_M

ClientSampleId :

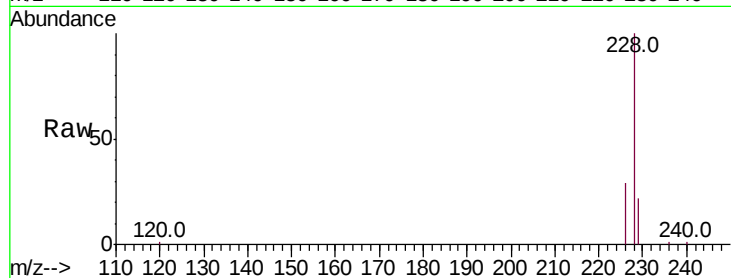
Tot Ion:228 Resp: 58717

Ion Ratio Lower Upper

228 100

226 29.2 23.8 35.8

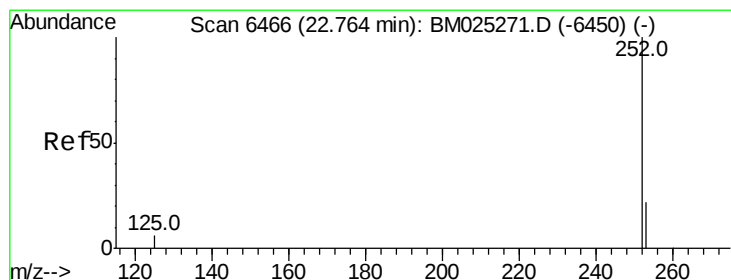
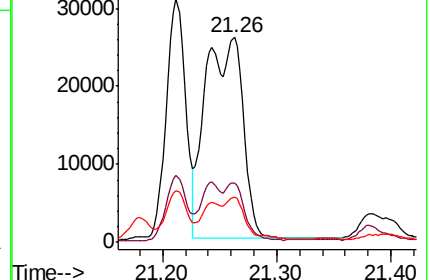
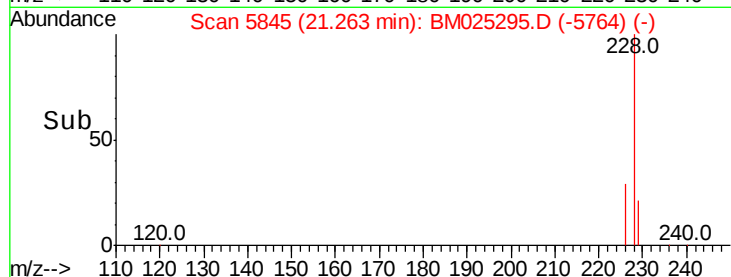
229 21.9 16.9 25.3



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



#21

Benzo(b)fluoranthene

Concen: 1.958 ng/ul

RT: 22.77 min Scan# 6466

Delta R.T. -0.00 min

Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

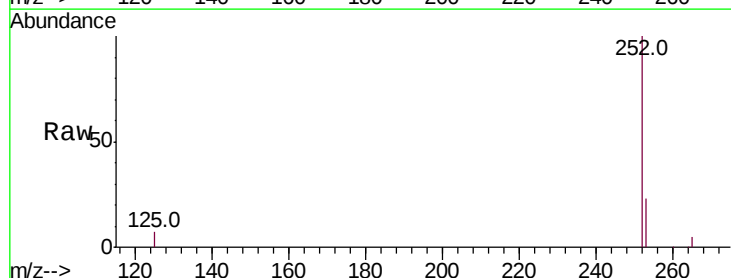
Tgt Ion:252 Resp: 164495

Ion Ratio Lower Upper

252 100

253 23.2 0.0 49.8

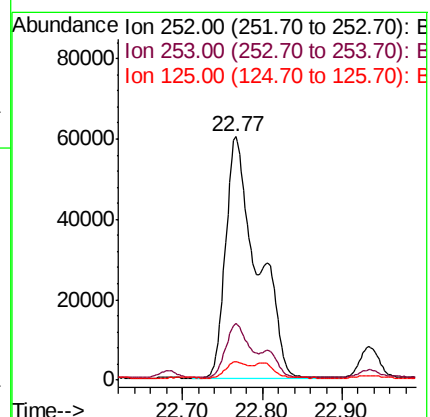
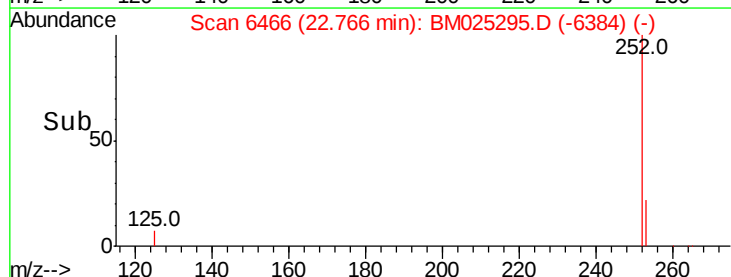
125 7.4 0.0 28.6

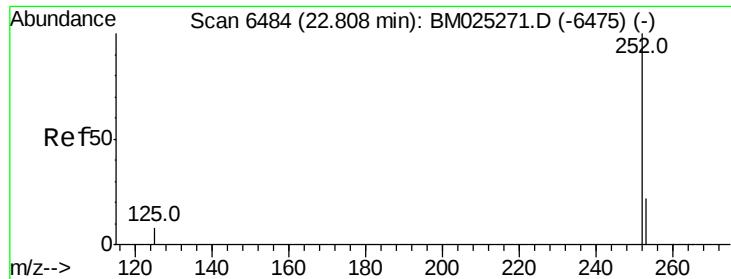


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

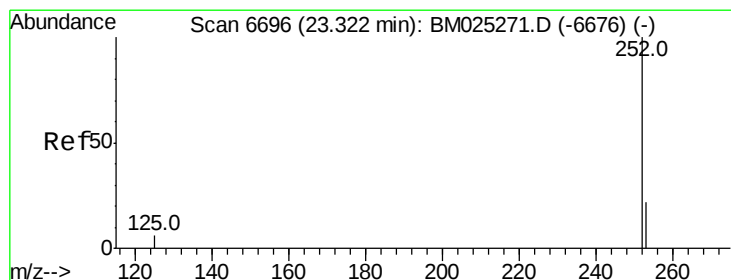
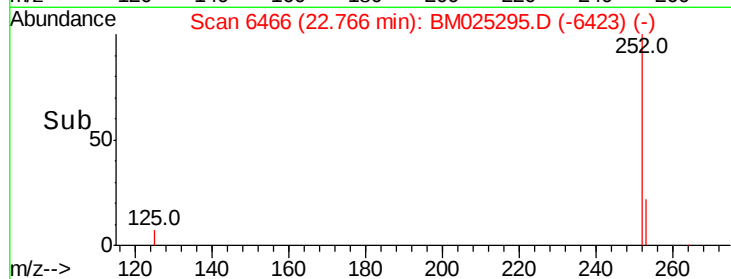
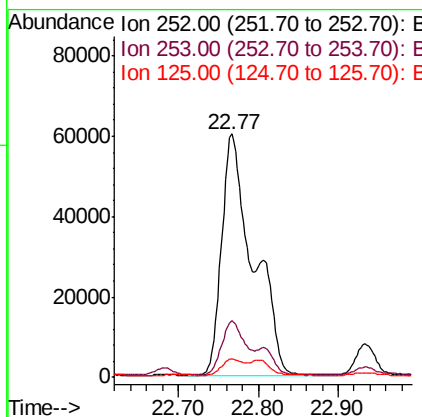
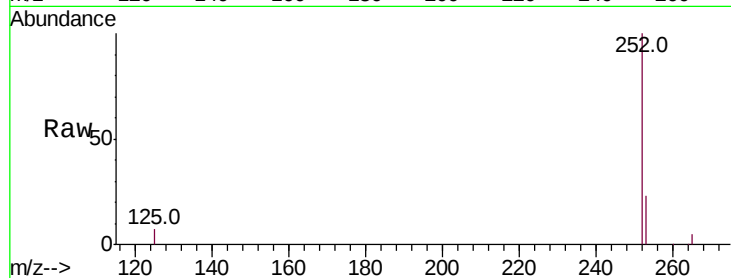




#22  
Benzo(k)fluoranthene  
Concen: 1.867 ng/ul  
RT: 22.77 min Scan# 6466  
Delta R.T. -0.05 min  
Lab File: BM025295.D  
Acq: 05 Mar 2020 19:33

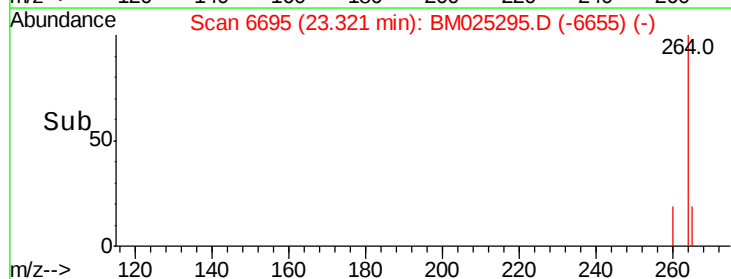
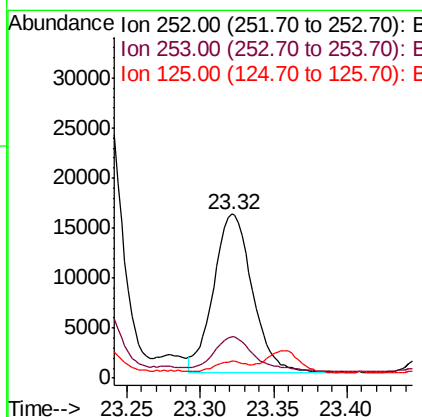
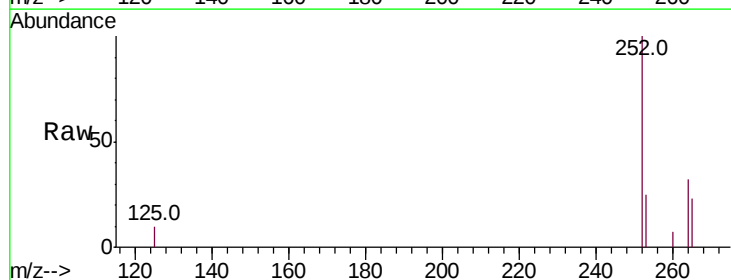
Instrument :  
BNA\_M  
ClientSampleId :

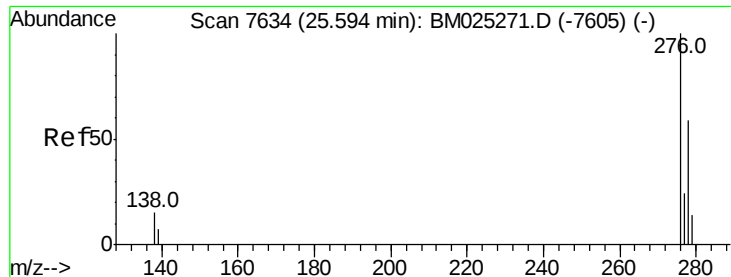
Tot Ion:252 Resp: 164495  
Ion Ratio Lower Upper  
252 100  
253 23.2 19.4 29.0  
125 7.4 10.7 16.1#



#23  
Benzo(a)pyrene  
Concen: 0.410 ng/ul  
RT: 23.32 min Scan# 6695  
Delta R.T. -0.00 min  
Lab File: BM025295.D  
Acq: 05 Mar 2020 19:33

Tgt Ion:252 Resp: 28884  
Ion Ratio Lower Upper  
252 100  
253 25.3 20.3 30.5  
125 10.1 13.0 19.4#



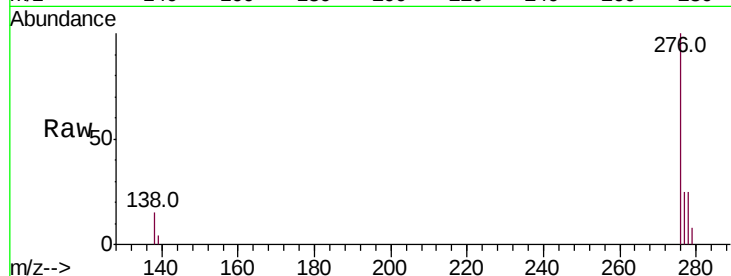


#24

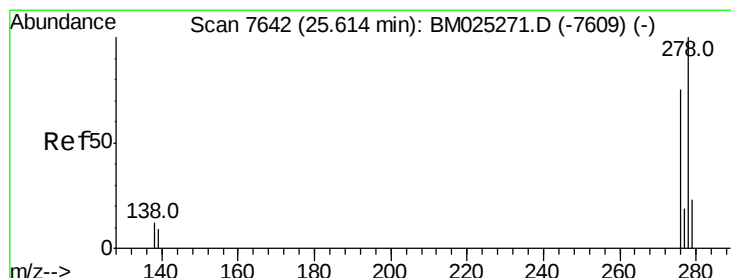
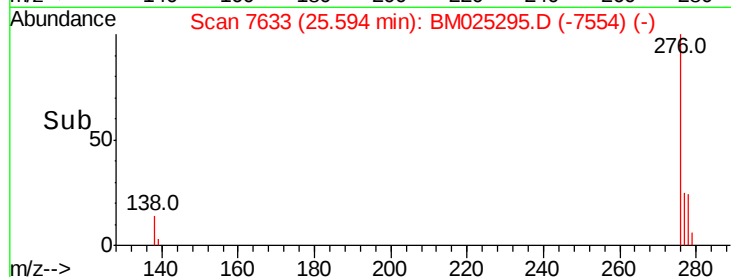
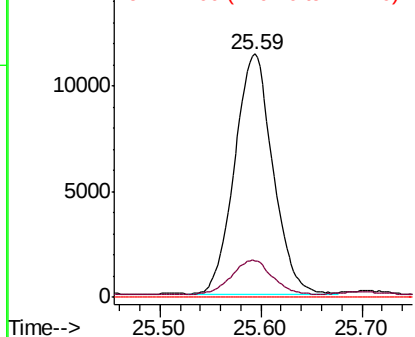
Indeno(1,2,3-cd)pyrene  
Concen: 0.342 ng/u1  
RT: 25.59 min Scan# 7633  
Delta R.T. -0.01 min  
Lab File: BM025295.D  
Acq: 05 Mar 2020 19:33

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:276 Resp: 30048  
Ion Ratio Lower Upper  
276 100  
138 14.8 0.0 0.0#  
227 0.0 0.0 0.0



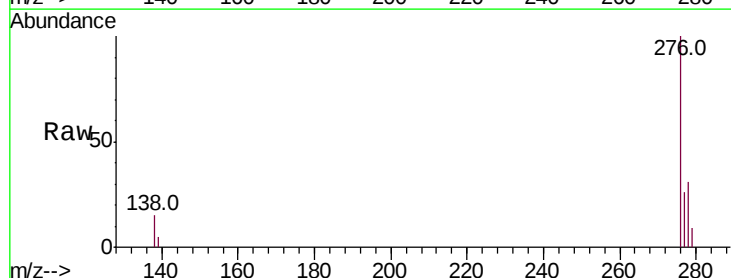
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E



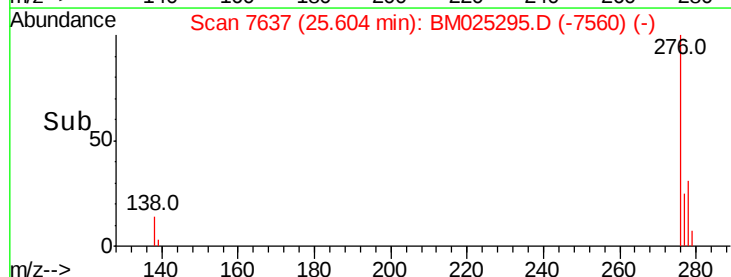
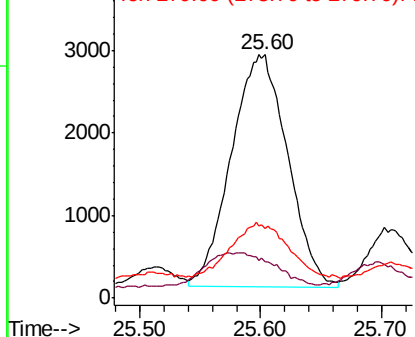
#25

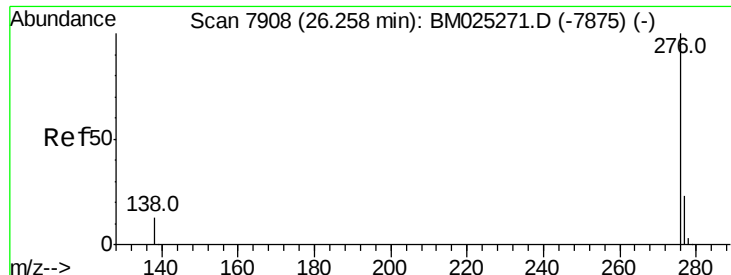
Dibenzo(a,h)anthracene  
Concen: 0.125 ng/u1  
RT: 25.60 min Scan# 7637  
Delta R.T. -0.01 min  
Lab File: BM025295.D  
Acq: 05 Mar 2020 19:33

Tgt Ion:278 Resp: 9105  
Ion Ratio Lower Upper  
278 100  
139 14.8 13.2 19.8  
279 28.6 21.0 31.4



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#26

Benzo(a,h,i)perylene

Concen: 0.238 ng/ul

RT: 26.26 min Scan# 7907

Delta R.T. -0.00 min

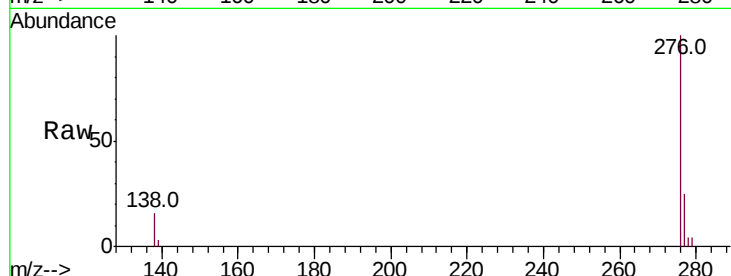
Lab File: BM025295.D

Acq: 05 Mar 2020 19:33

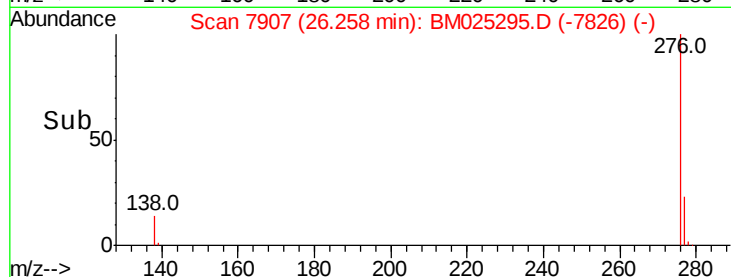
Instrument :

BNA\_M

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 276   | Resp: | 17784 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 16.0  | 17.9  | 26.9# |
| 277      | 24.9  | 20.5  | 30.7  |



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

