

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072220\  
 Data File : BM026843.D  
 Acq On : 22 Jul 2020 21:43  
 Operator : JU/CG  
 Sample : L3184-13RX  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EO-03-072020RX

Quant Time: Jul 23 02:38:31 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM070820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 22 14:16:10 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.30  | 152  | 126752   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.05 | 136  | 465551   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 13.96 | 164  | 226703   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 16.72 | 188  | 415218   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 20.95 | 240  | 423674   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 23.02 | 264  | 460274   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 4.94  | 112  | 706505   | 93.42 | ng    | 0.00     |
| 7) Phenol-d6                | 6.52  | 99   | 928518   | 77.06 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.45  | 82   | 616172   | 56.47 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.47 | 330  | 216389   | 65.53 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.57 | 172  | 1054156  | 61.83 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.39 | 244  | 1153387  | 53.58 | ng    | 0.00     |

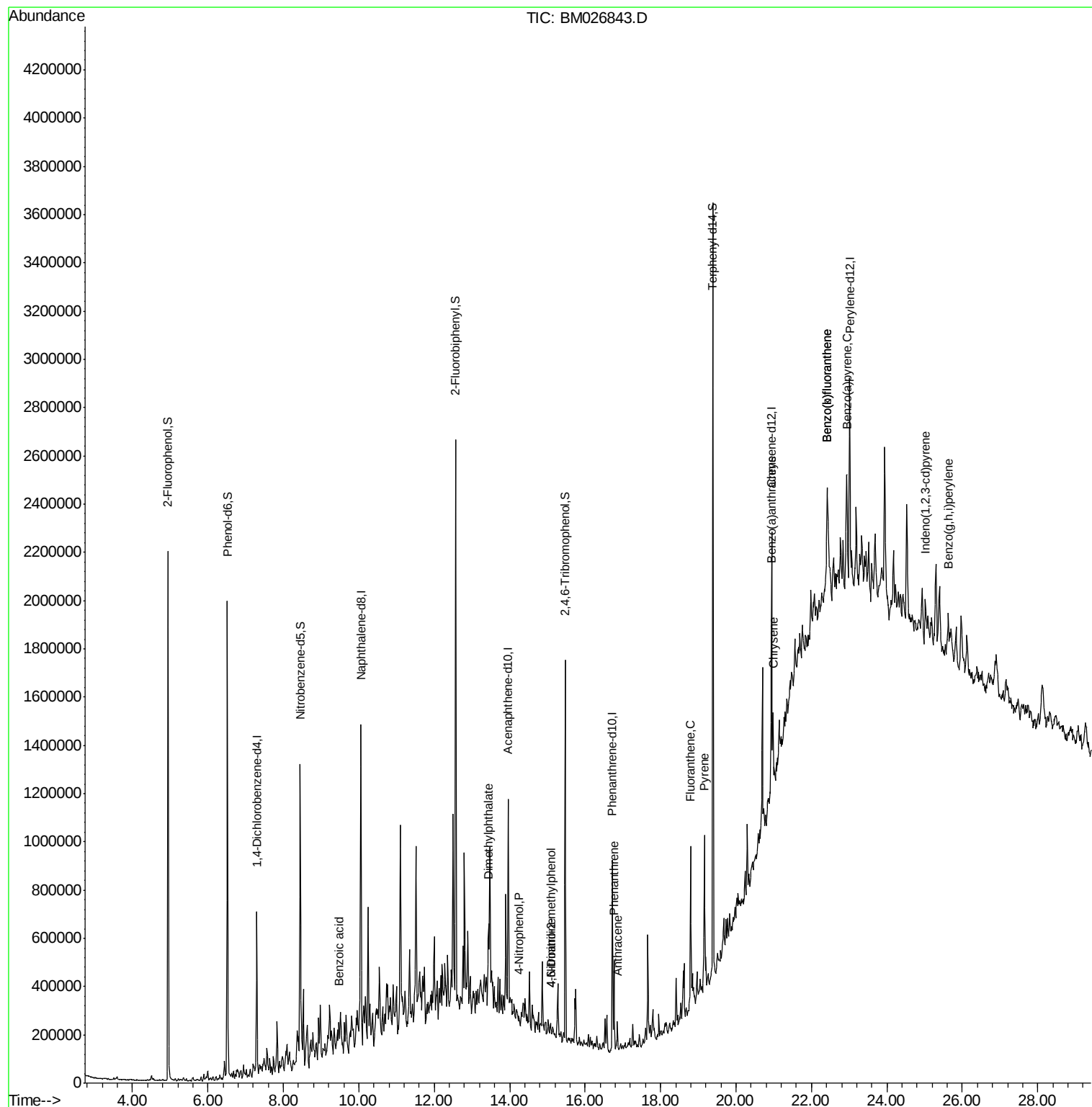
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 32) Benzoic acid               | 9.49  | 122  | 486      | 7.168  | ng    | # 1    |
| 50) Dimethylphthalate          | 13.44 | 163  | 130809   | 6.746  | ng    | 97     |
| 56) 4-Nitrophenol              | 14.26 | 139  | 966      | 4.156  | ng    | # 1    |
| 62) 4-Nitroaniline             | 15.11 | 138  | 275      | 3.192  | ng    | 91     |
| 65) 4,6-Dinitro-2-methylphenol | 15.11 | 198  | 55       | 4.550  | ng    | # 1    |
| 71) Phenanthrene               | 16.77 | 178  | 193429   | 7.891  | ng    | 98     |
| 72) Anthracene                 | 16.85 | 178  | 64247    | 2.633  | ng    | 96     |
| 75) Fluoranthene               | 18.79 | 202  | 374133   | 12.392 | ng    | 97     |
| 78) Pyrene                     | 19.17 | 202  | 363942   | 13.636 | ng    | 98     |
| 81) Benzo(a)anthracene         | 20.93 | 228  | 185358   | 6.513  | ng    | # 94   |
| 83) Chrysene                   | 20.98 | 228  | 170259   | 6.147  | ng    | # 94   |
| 87) Indeno(1,2,3-cd)pyrene     | 25.02 | 276  | 119269   | 3.640  | ng    | 95     |
| 88) Benzo(b)fluoranthene       | 22.42 | 252  | 317470   | 10.468 | ng    | # 75   |
| 89) Benzo(k)fluoranthene       | 22.42 | 252  | 317632   | 10.677 | ng    | # 75   |
| 90) Benzo(a)pyrene             | 22.93 | 252  | 182653   | 6.488  | ng    | # 85   |
| 92) Benzo(g,h,i)perylene       | 25.62 | 276  | 123771   | 4.856  | ng    | 92     |

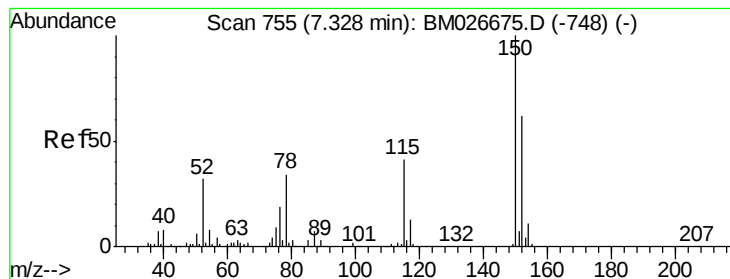
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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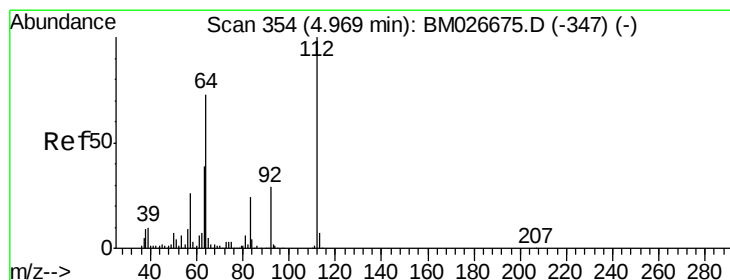
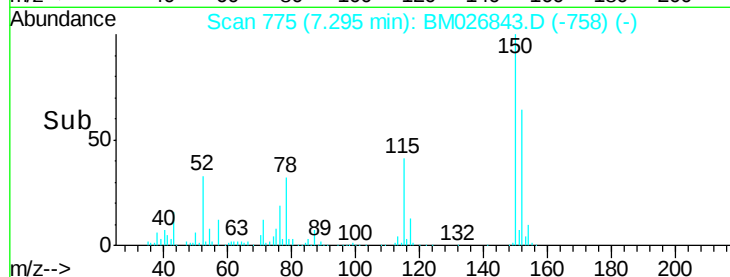
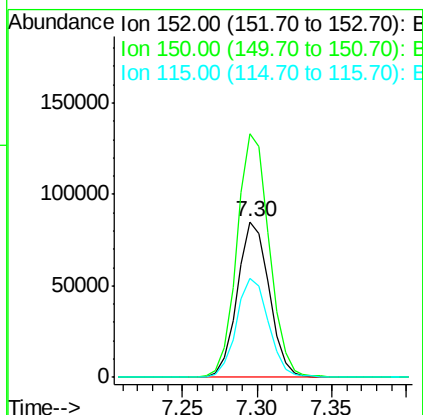
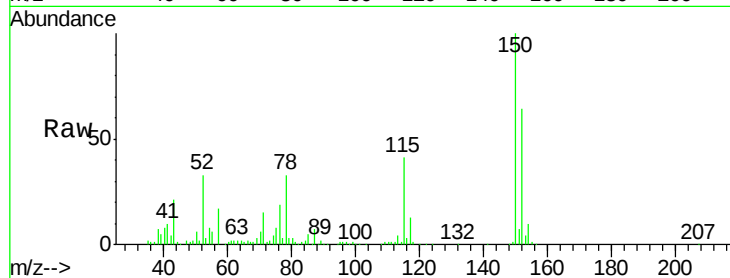




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.30 min Scan# 775  
 Delta R.T. -0.00 min  
 Lab File: BM026843.D  
 Acq: 22 Jul 2020 21:43

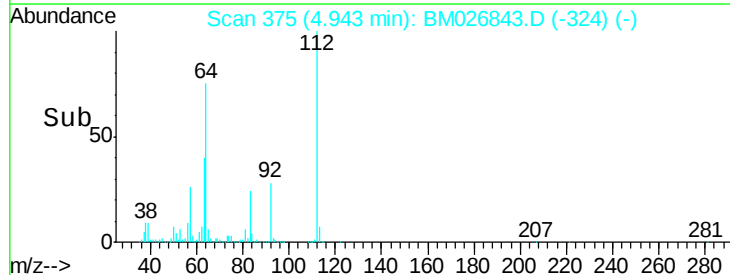
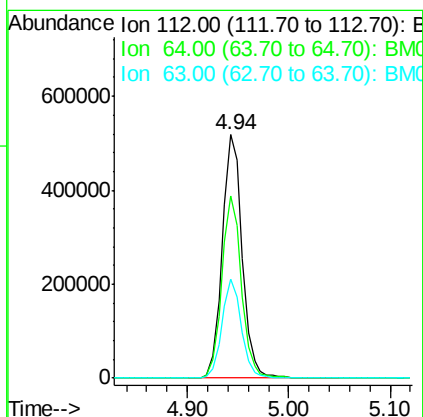
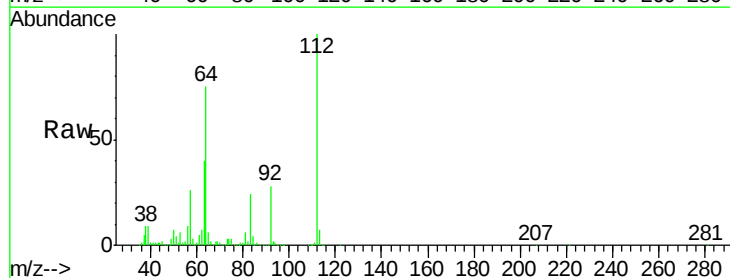
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EO-03-072020RX

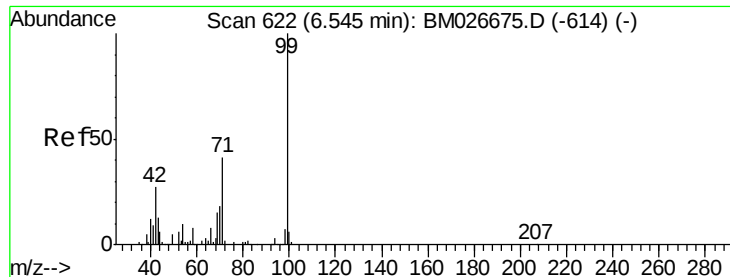
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 128.1 | 192.1 |
| 115     | 63.8  | 52.2  | 78.4  |



#5  
 2-Fluorophenol  
 Concen: 93.424 ng  
 RT: 4.94 min Scan# 375  
 Delta R.T. 0.00 min  
 Lab File: BM026843.D  
 Acq: 22 Jul 2020 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 74.9  | 58.4  | 87.6  |
| 63      | 40.5  | 31.5  | 47.3  |





#7

Phenol-d6

Concen: 77.063 ng

RT: 6.52 min Scan# 643

Delta R.T. 0.01 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

Instrument :

BNA\_M

ClientSampleId :

EO-03-072020RX

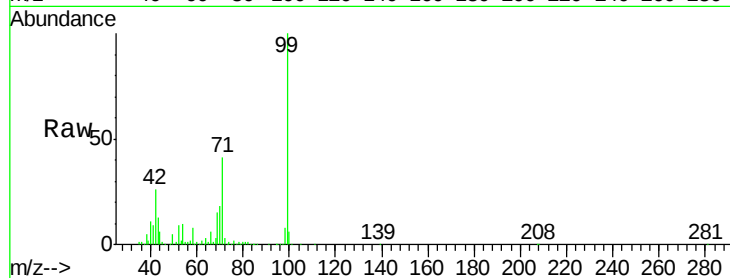
Tot Ion: 99 Resp: 928518

Ion Ratio Lower Upper

99 100

42 25.5 21.7 32.5

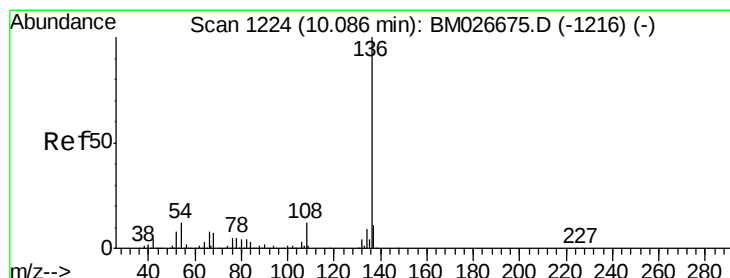
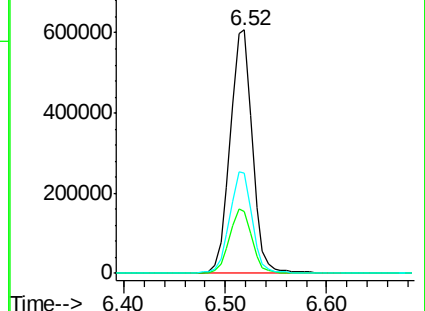
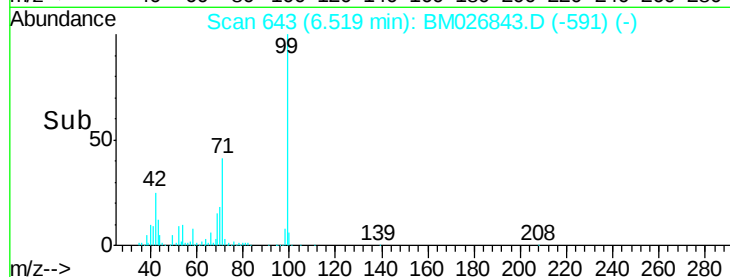
71 41.0 33.2 49.8



Abundance Ion 99.00 (98.70 to 99.70): BM026675.D (-614) (-)

Ion 42.00 (41.70 to 42.70): BM026675.D (-614) (-)

Ion 71.00 (70.70 to 71.70): BM026675.D (-614) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.05 min Scan# 1244

Delta R.T. 0.01 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

Tgt Ion: 136 Resp: 465551

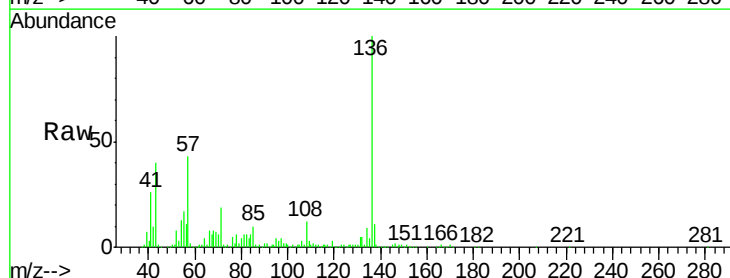
Ion Ratio Lower Upper

136 100

137 10.8 8.6 12.8

54 13.3 9.8 14.6

68 8.2 5.8 8.6

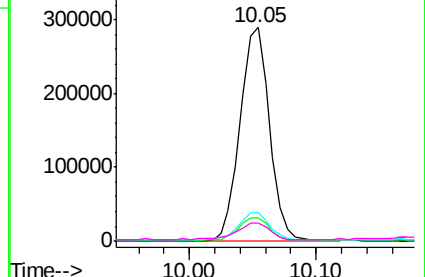
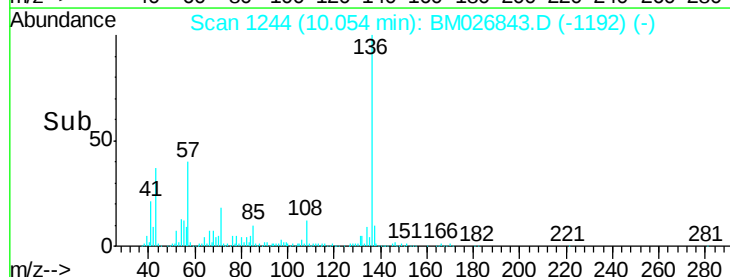


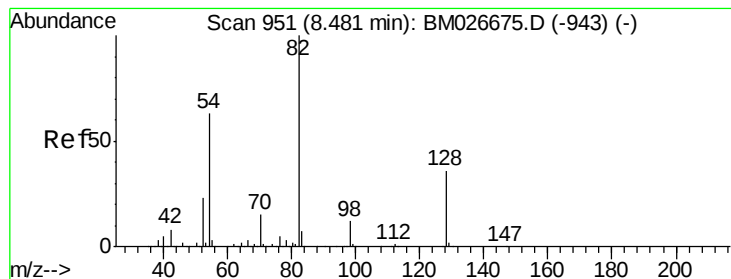
Abundance Ion 136.00 (135.70 to 136.70): BM026675.D (-1216) (-)

Ion 137.00 (136.70 to 137.70): BM026675.D (-1216) (-)

Ion 54.00 (53.70 to 54.70): BM026675.D (-1216) (-)

Ion 68.00 (67.70 to 68.70): BM026675.D (-1216) (-)





#23

Nitrobenzene-d5

Concen: 56.466 ng

RT: 8.45 min Scan# 971

Delta R.T. -0.00 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

Instrument :

BNA\_M

ClientSampleId :

EO-03-072020RX

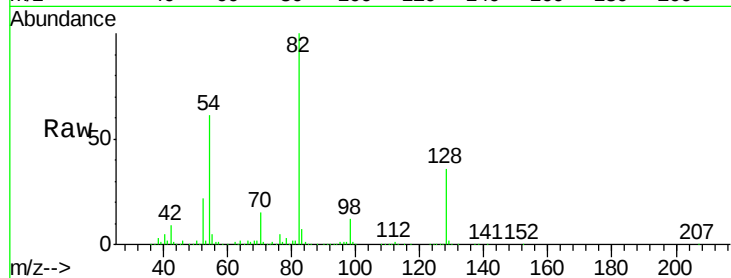
Tot Ion: 82 Resp: 616172

Ion Ratio Lower Upper

82 100

128 36.2 29.1 43.7

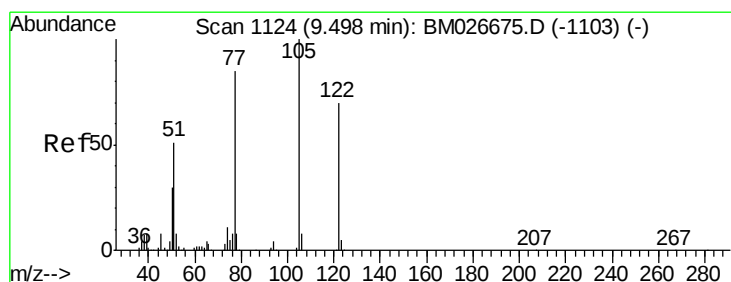
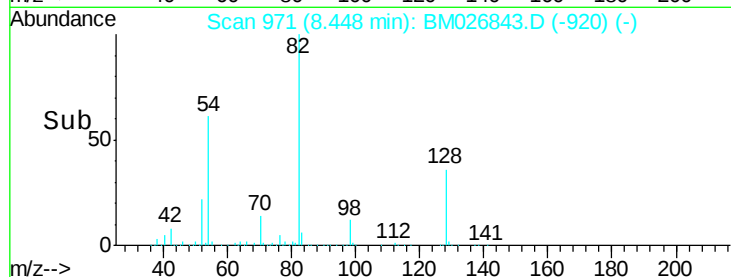
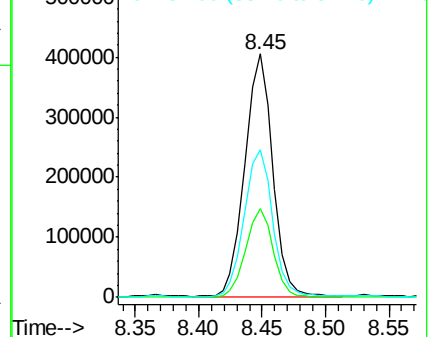
54 60.7 50.2 75.4



Abundance Ion 82.00 (81.70 to 82.70): BM026675.D (-943) (-)

Ion 128.00 (127.70 to 128.70): BM026675.D (-943) (-)

Ion 54.00 (53.70 to 54.70): BM026675.D (-943) (-)



#32

Benzoic acid

Concen: 7.168 ng

RT: 9.49 min Scan# 1148

Delta R.T. 0.02 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

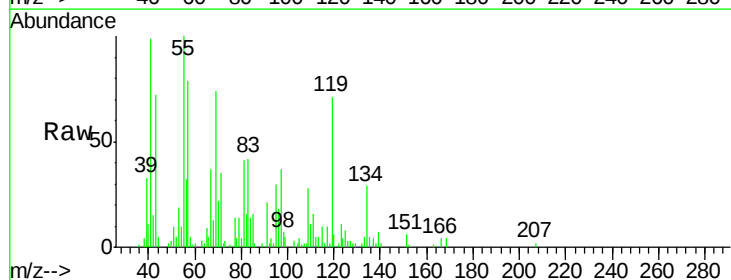
Tgt Ion: 122 Resp: 486

Ion Ratio Lower Upper

122 100

105 182.3 120.9 160.9#

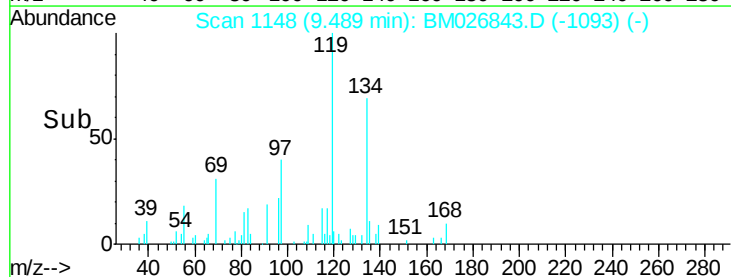
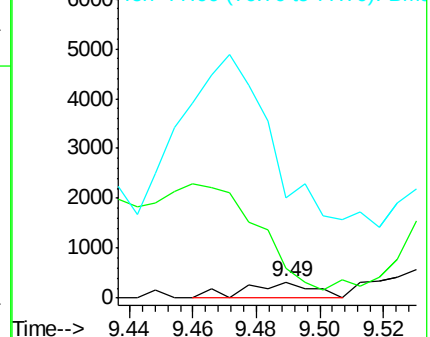
77 612.5 100.0 140.0#

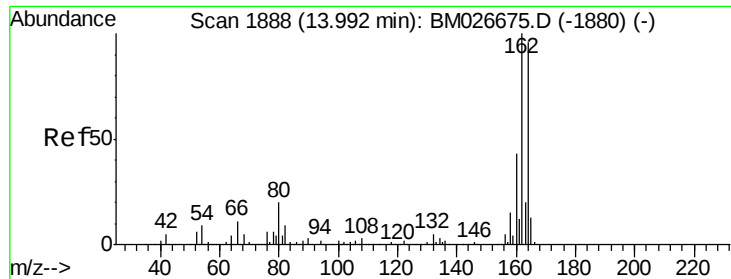


Abundance Ion 122.00 (121.70 to 122.70): BM026675.D (-1103) (-)

Ion 105.00 (104.70 to 105.70): BM026675.D (-1103) (-)

Ion 77.00 (76.70 to 77.70): BM026675.D (-1103) (-)





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 13.96 min Scan# 1908

Delta R.T. 0.00 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

Instrument :

BNA\_M

ClientSampleId :

EO-03-072020RX

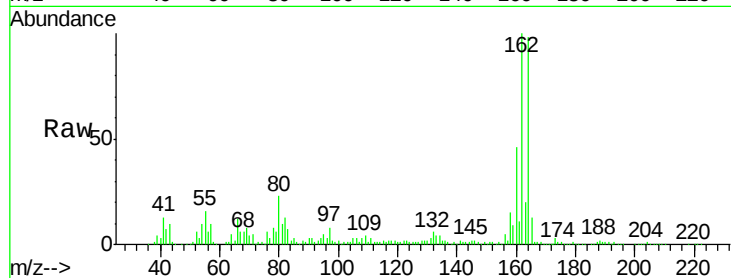
Tot Ion:164 Resp: 226703

Ion Ratio Lower Upper

164 100

162 101.6 83.7 125.5

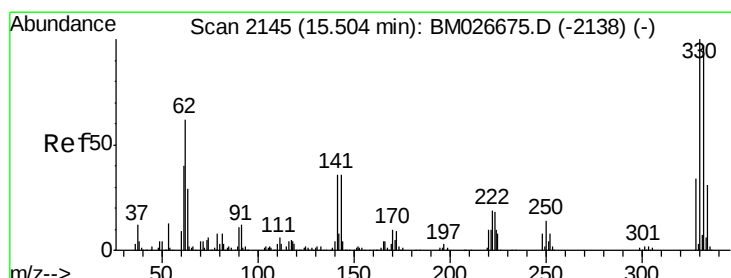
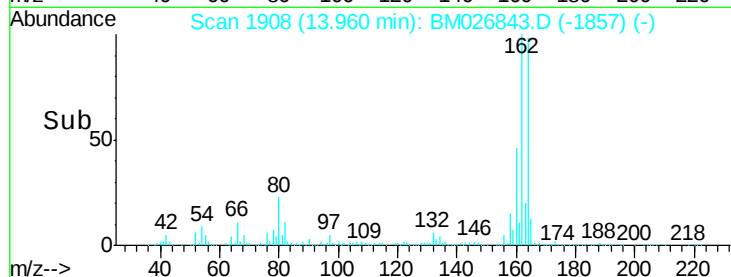
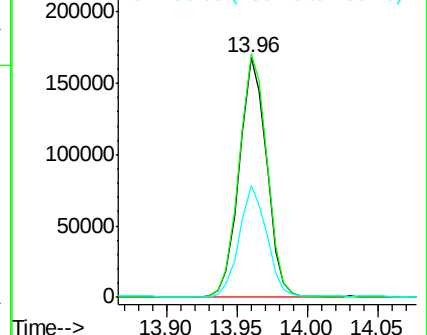
160 46.6 36.2 54.2



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: 65.525 ng

RT: 15.47 min Scan# 2165

Delta R.T. 0.00 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

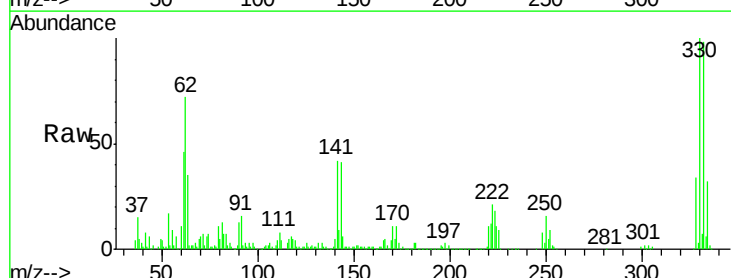
Tgt Ion:330 Resp: 216389

Ion Ratio Lower Upper

330 100

332 98.3 77.5 116.3

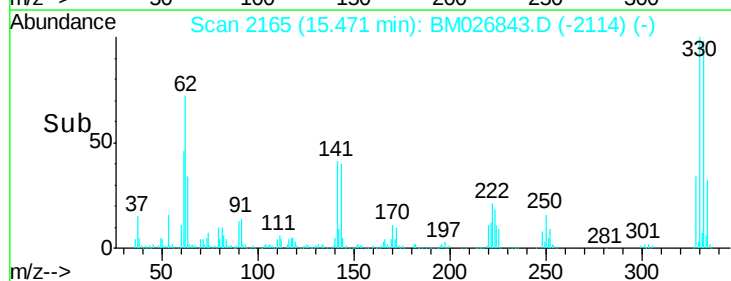
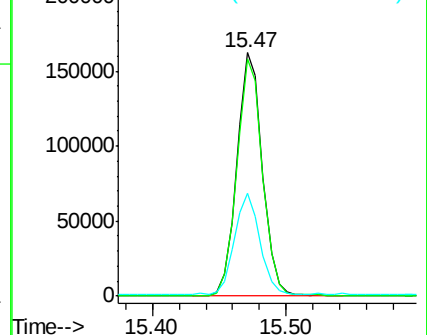
141 41.1 32.4 48.6

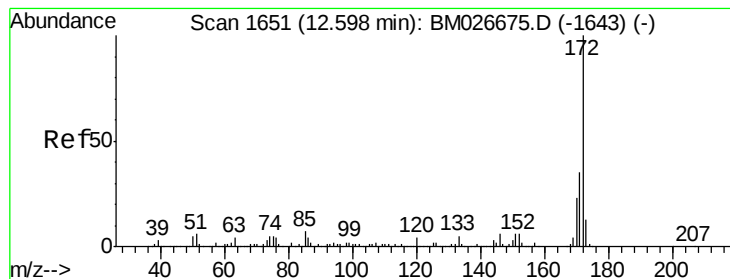


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 61.827 ng

RT: 12.57 min Scan# 1671

Delta R.T. 0.00 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

Instrument :

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ClientSampleId :

EO-03-072020RX

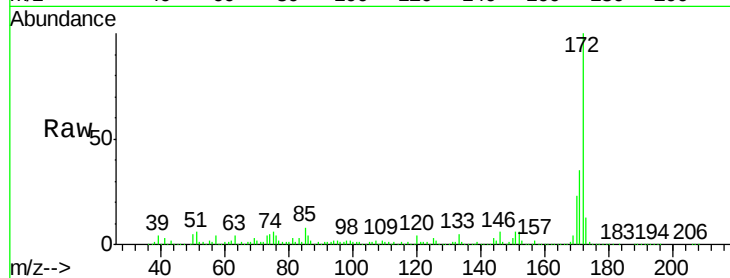
Tot Ion:172 Resp: 1054156

Ion Ratio Lower Upper

172 100

171 34.6 27.8 41.6

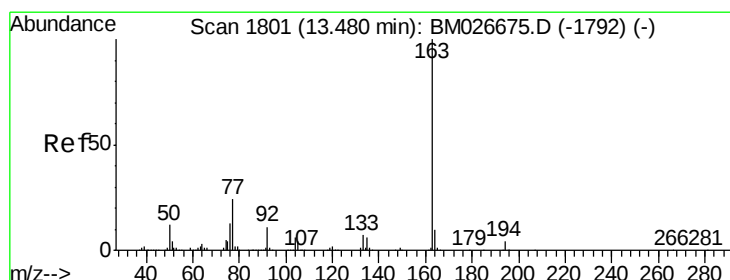
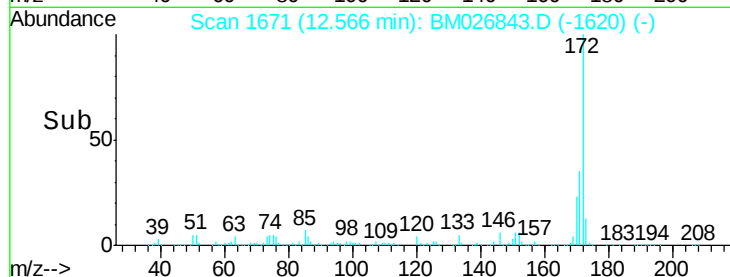
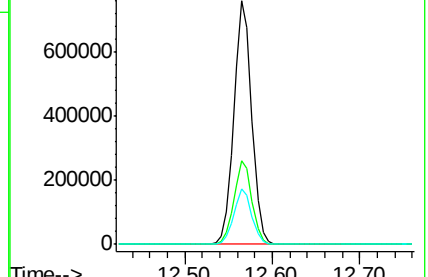
170 22.5 18.5 27.7



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: 6.746 ng

RT: 13.44 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

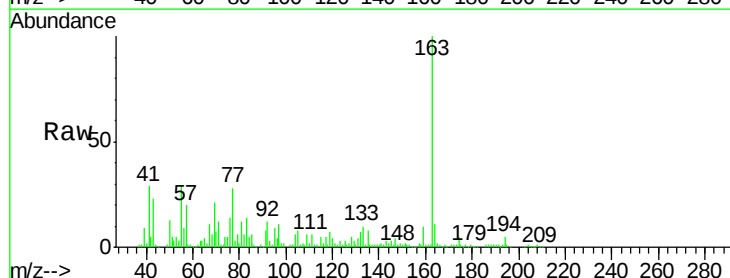
Tgt Ion:163 Resp: 130809

Ion Ratio Lower Upper

163 100

194 4.7 3.4 5.2

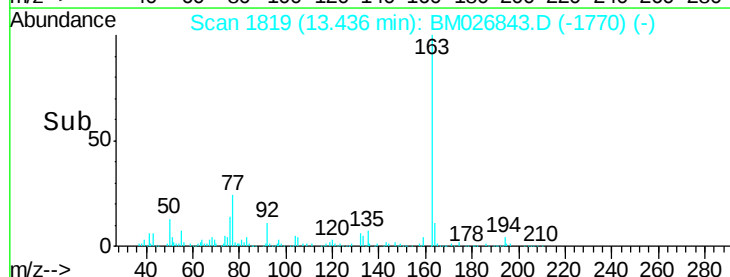
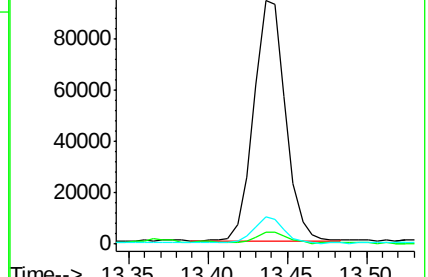
164 11.1 7.8 11.6

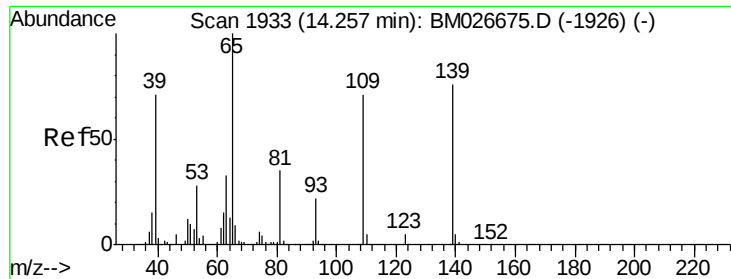


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#56

4-Nitrophenol

Concen: 4.156 ng

RT: 14.26 min Scan# 1959

Delta R.T. 0.02 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

Instrument :

BNA\_M

ClientSampleId :

EO-03-072020RX

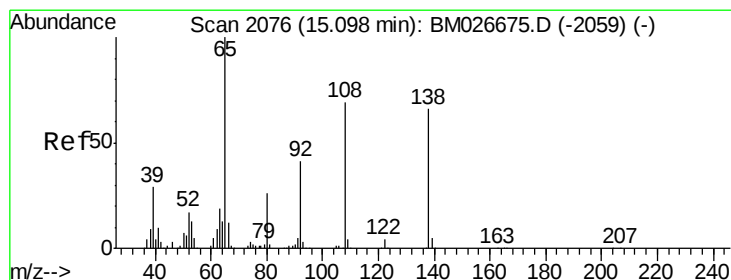
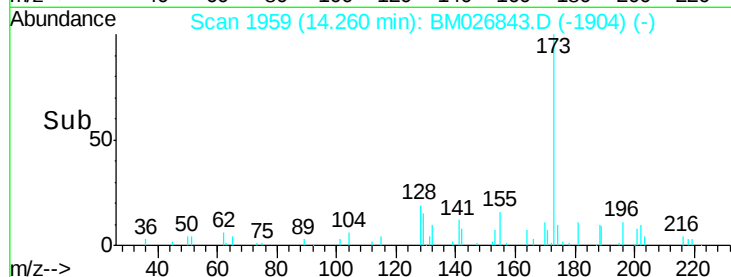
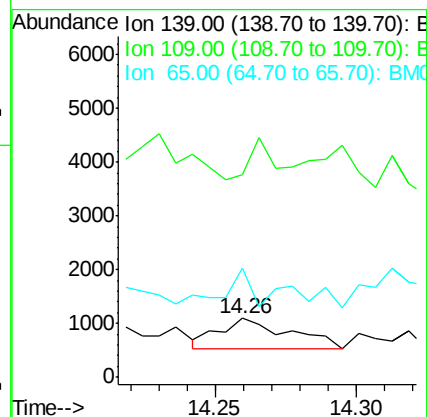
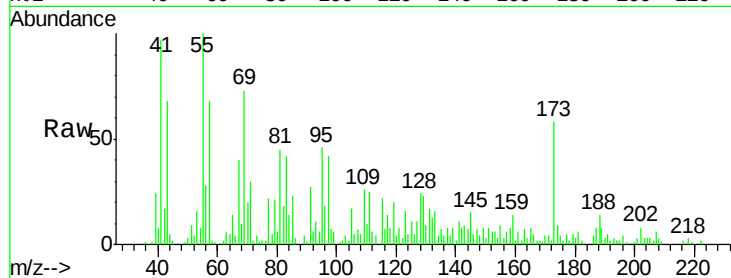
Tot Ion:139 Resp: 966

Ion Ratio Lower Upper

139 100

109 344.4 73.7 113.7#

65 184.6 111.5 151.5#



#62

4-Nitroaniline

Concen: 3.192 ng

RT: 15.11 min Scan# 2103

Delta R.T. 0.04 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

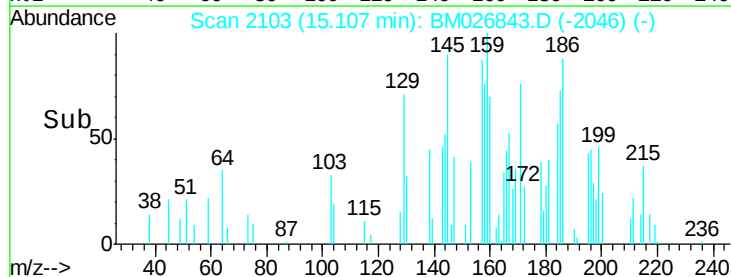
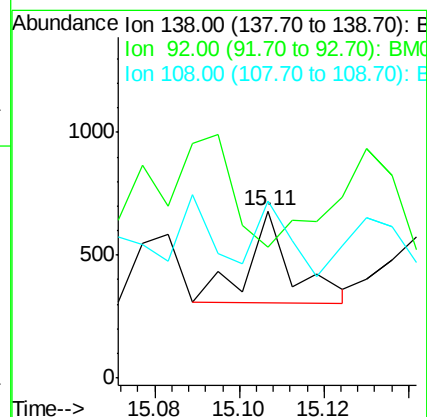
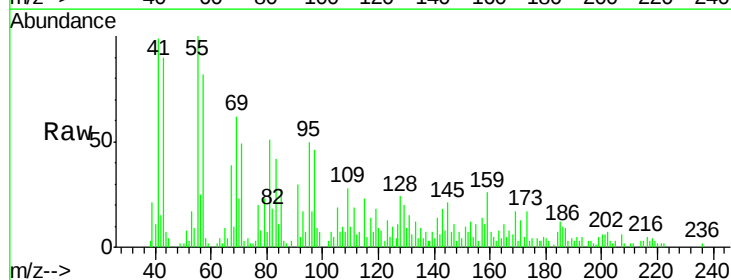
Tgt Ion:138 Resp: 275

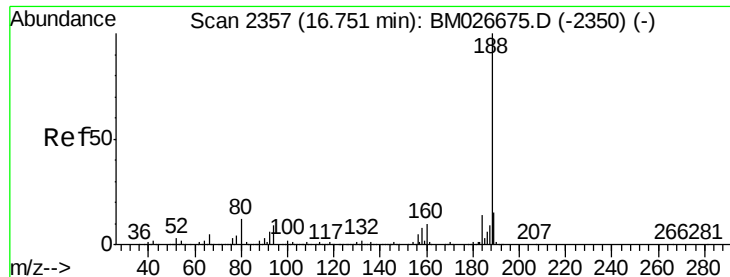
Ion Ratio Lower Upper

138 100

92 78.6 41.5 81.5

108 106.0 84.8 124.8

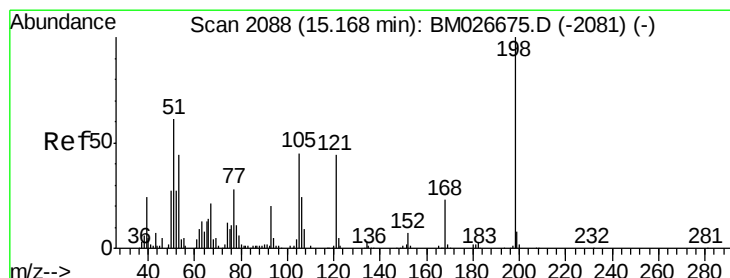
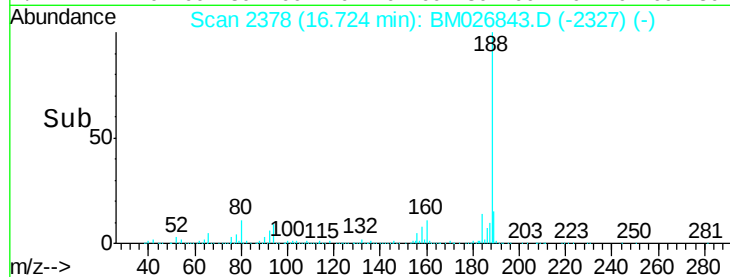
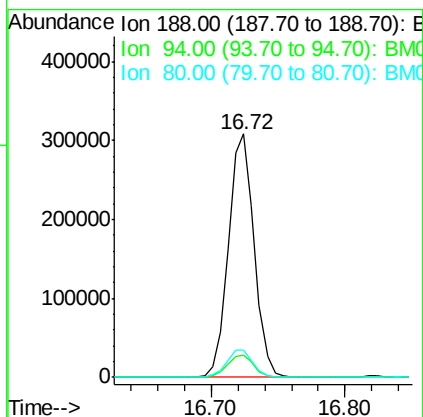
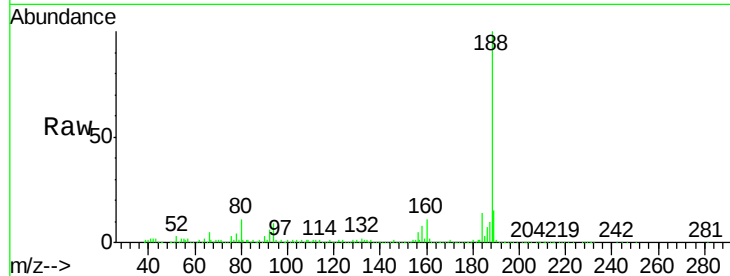




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.72 min Scan# 2378  
Delta R.T. -0.00 min  
Lab File: BM026843.D  
Acq: 22 Jul 2020 21:43

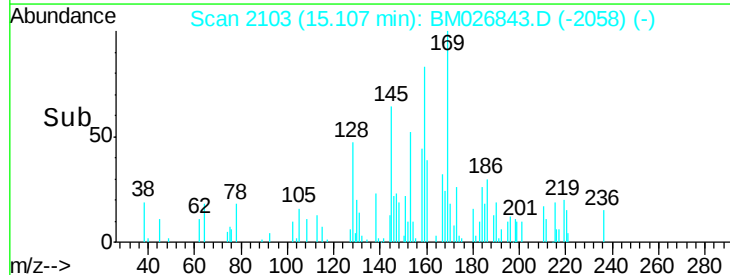
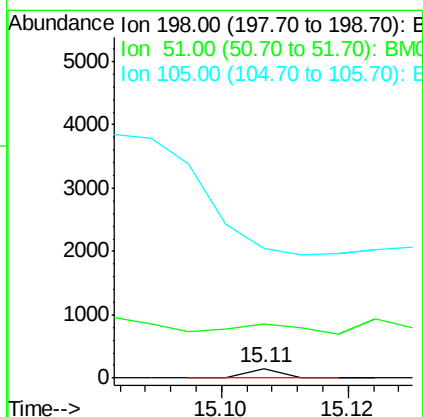
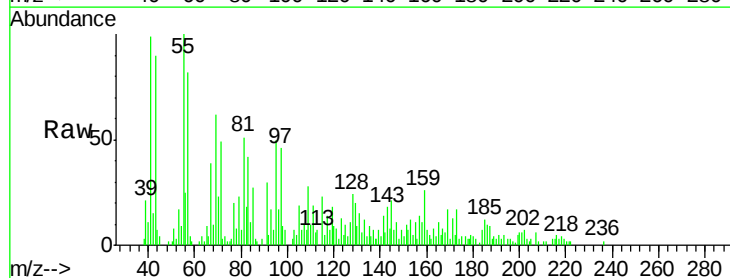
Instrument :  
BNA\_M  
ClientSampleId :  
EO-03-072020RX

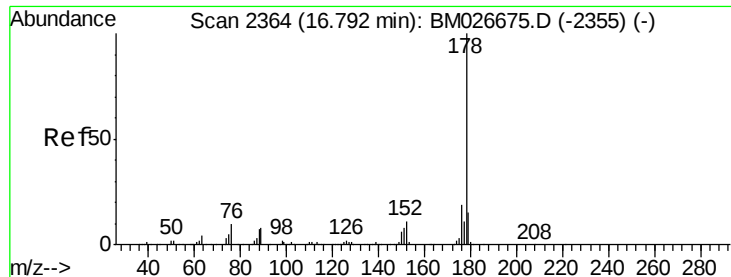
Tot Ion:188 Resp: 415218  
Ion Ratio Lower Upper  
188 100  
94 9.3 7.4 11.0  
80 11.0 9.3 13.9



#65  
4,6-Dinitro-2-methylphenol  
Concen: 4.550 ng  
RT: 15.11 min Scan# 2103  
Delta R.T. -0.04 min  
Lab File: BM026843.D  
Acq: 22 Jul 2020 21:43

Tgt Ion:198 Resp: 55  
Ion Ratio Lower Upper  
198 100  
51 546.2 42.0 82.0#  
105 1317.3 24.9 64.9#

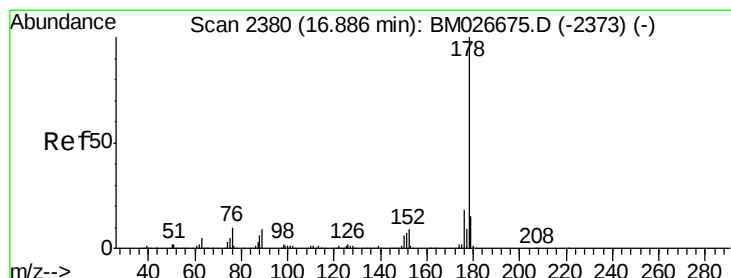
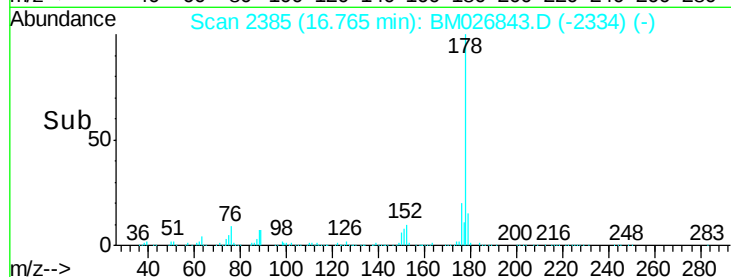
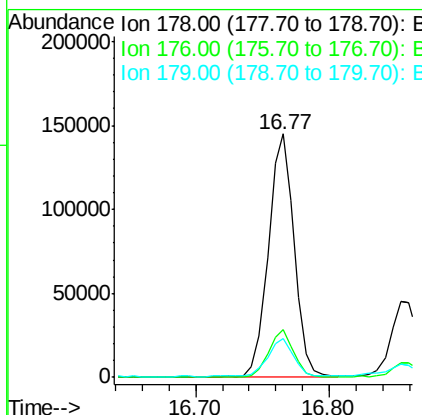
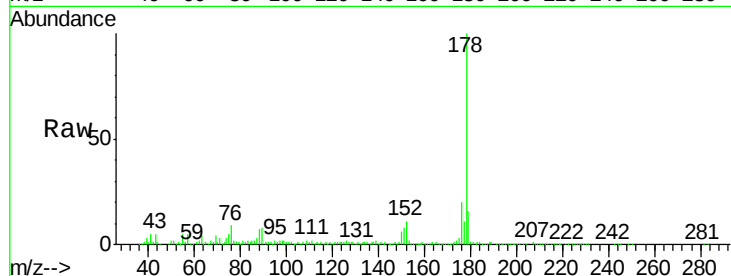




#71  
Phenanthrene  
Concen: 7.891 ng  
RT: 16.77 min Scan# 2385  
Delta R.T. 0.00 min  
Lab File: BM026843.D  
Acq: 22 Jul 2020 21:43

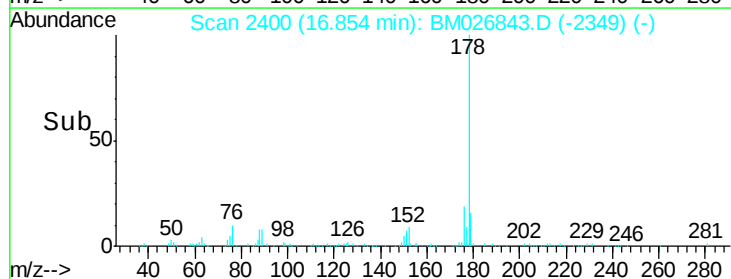
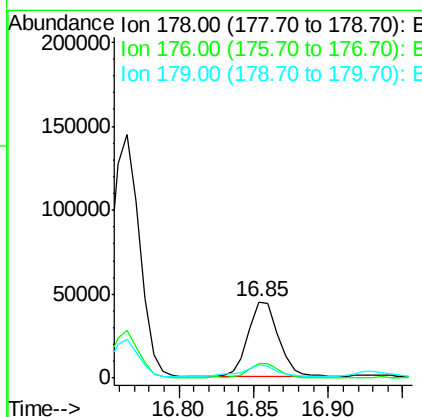
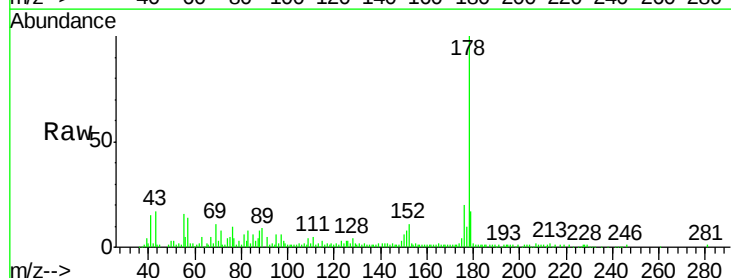
Instrument :  
BNA\_M  
ClientSampleId :  
EO-03-072020RX

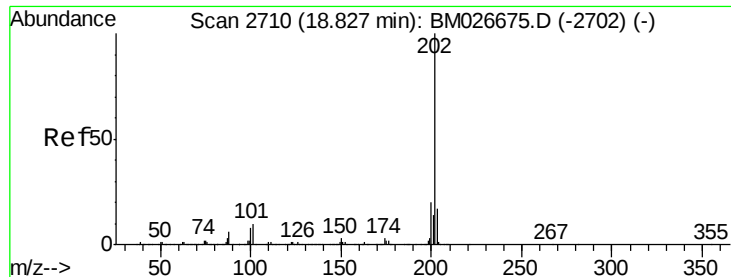
Tot Ion:178 Resp: 193429  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.0 22.6  
179 15.8 12.1 18.1



#72  
Anthracene  
Concen: 2.633 ng  
RT: 16.85 min Scan# 2400  
Delta R.T. -0.00 min  
Lab File: BM026843.D  
Acq: 22 Jul 2020 21:43

Tgt Ion:178 Resp: 64247  
Ion Ratio Lower Upper  
178 100  
176 19.6 14.7 22.1  
179 17.1 12.1 18.1





#75

Fluoranthene

Concen: 12.392 ng

RT: 18.79 min Scan# 2730

Delta R.T. -0.01 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

Instrument :

BNA\_M

ClientSampleId :

EO-03-072020RX

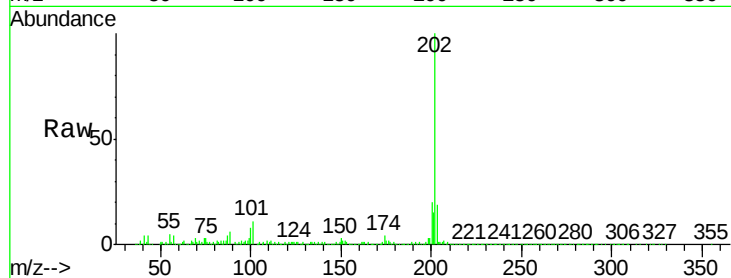
Tot Ion:202 Resp: 374133

Ion Ratio Lower Upper

202 100

101 10.9 0.0 30.1

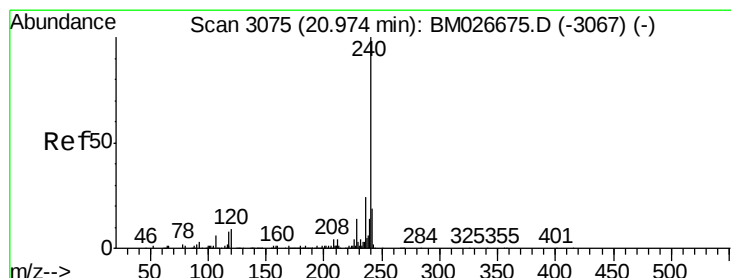
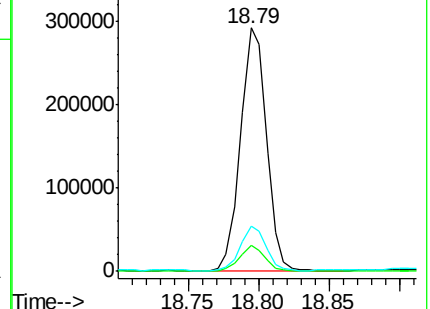
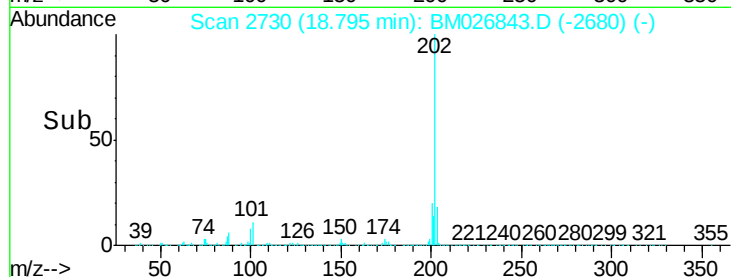
203 18.6 0.0 37.2



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: 20.95 min Scan# 3096

Delta R.T. -0.00 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

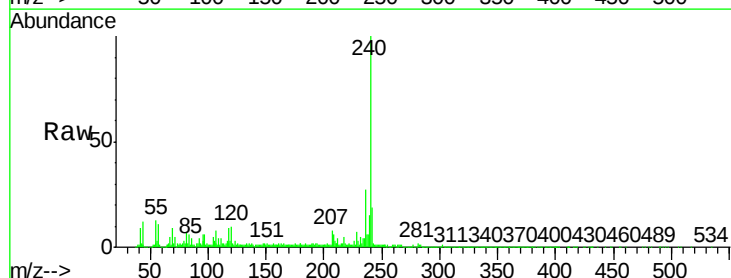
Tgt Ion:240 Resp: 423674

Ion Ratio Lower Upper

240 100

120 9.7 7.3 10.9

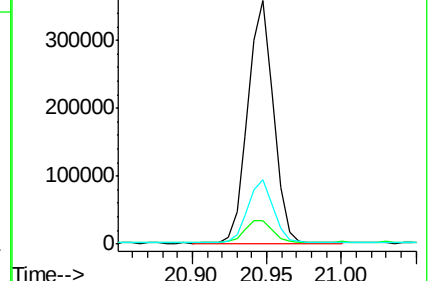
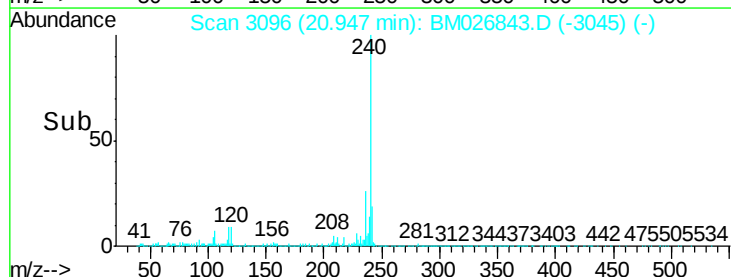
236 26.6 19.4 29.2

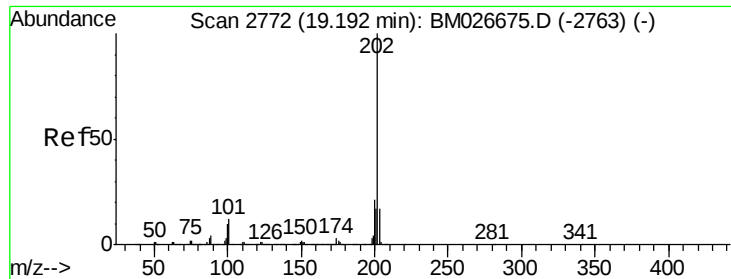


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 13.636 ng

RT: 19.17 min Scan# 2793

Delta R.T. -0.00 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

Instrument :

BNA\_M

ClientSampleId :

EO-03-072020RX

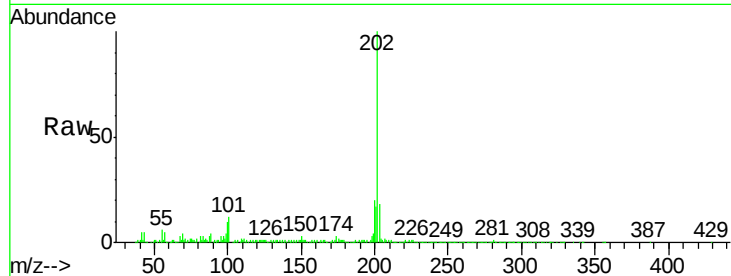
Tot Ion:202 Resp: 363942

Ion Ratio Lower Upper

202 100

200 20.1 16.6 24.8

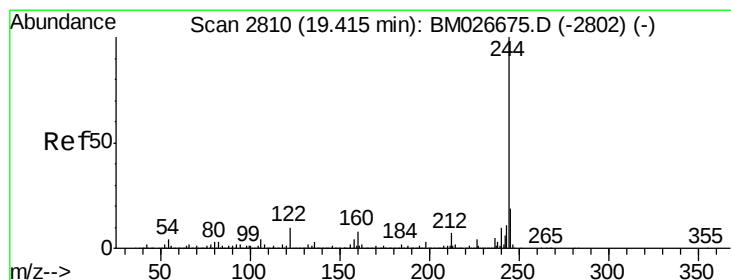
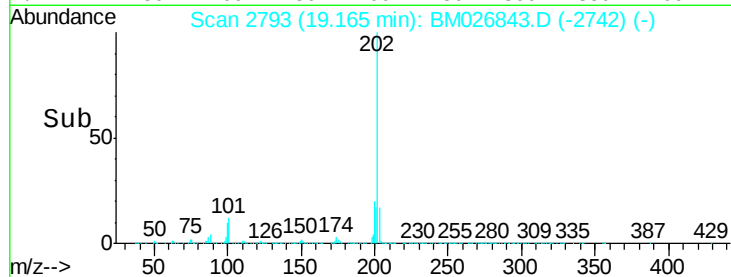
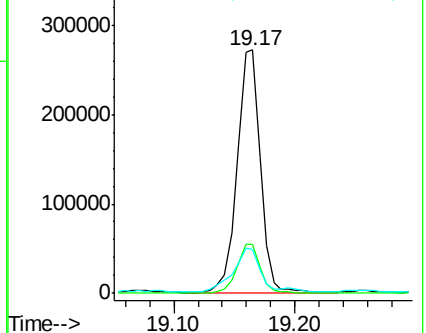
203 18.0 13.7 20.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 53.576 ng

RT: 19.39 min Scan# 2831

Delta R.T. -0.00 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

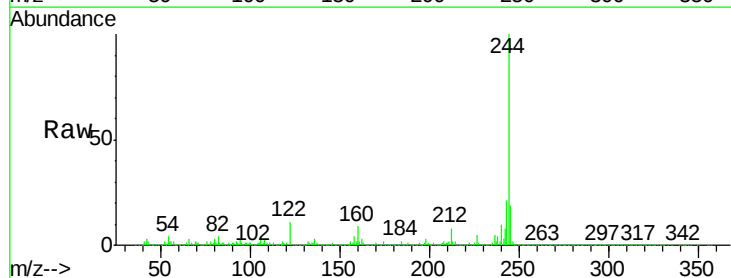
Tgt Ion:244 Resp: 1153387

Ion Ratio Lower Upper

244 100

212 8.1 5.9 8.9

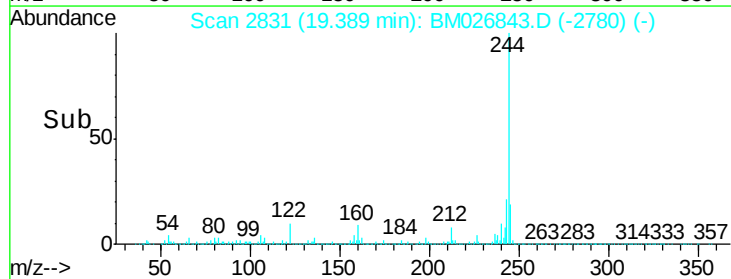
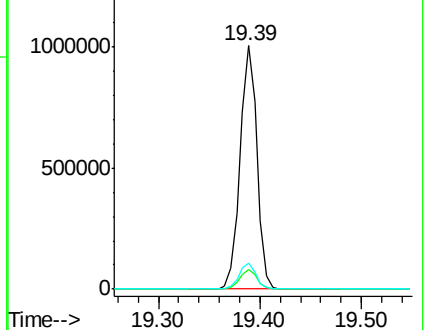
122 10.5 8.2 12.4

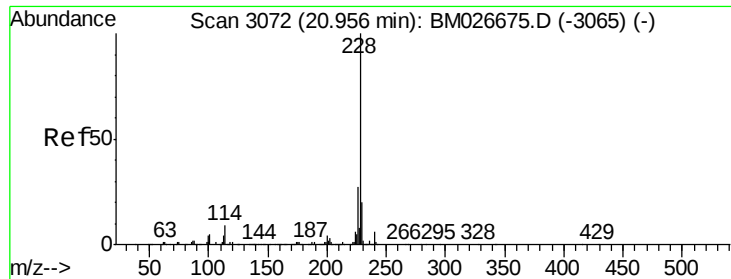


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 6.513 ng

RT: 20.93 min Scan# 3093

Delta R.T. -0.01 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

Instrument :

BNA\_M

ClientSampleId :

EO-03-072020RX

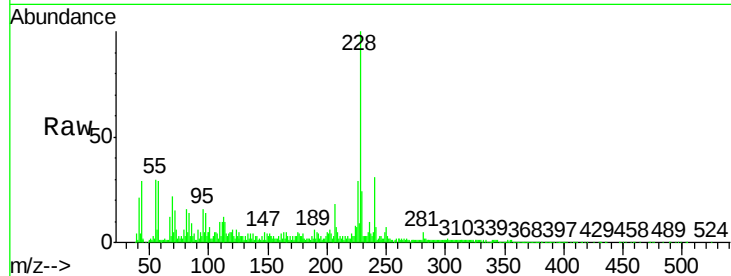
Tot Ion:228 Resp: 185358

Ion Ratio Lower Upper

228 100

226 28.7 21.4 32.2

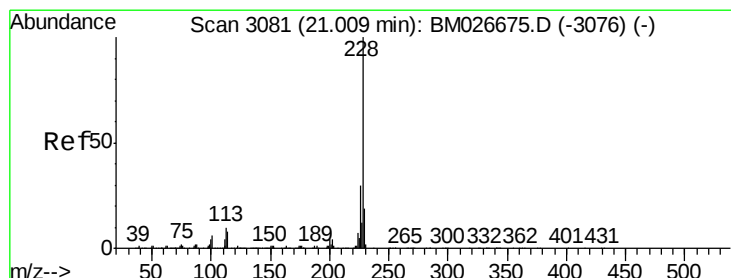
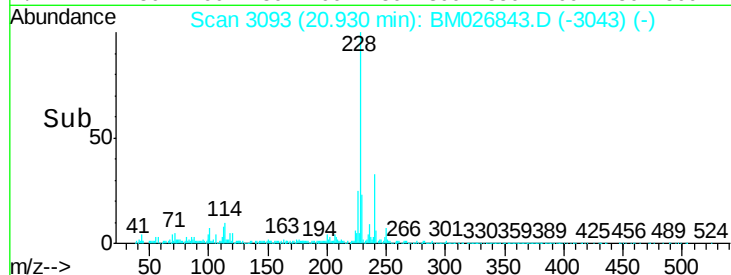
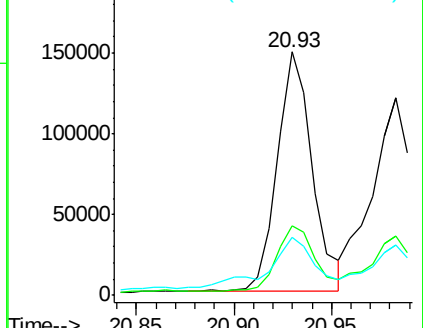
229 23.8 15.6 23.4#



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



#83

Chrysene

Concen: 6.147 ng

RT: 20.98 min Scan# 3102

Delta R.T. -0.01 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

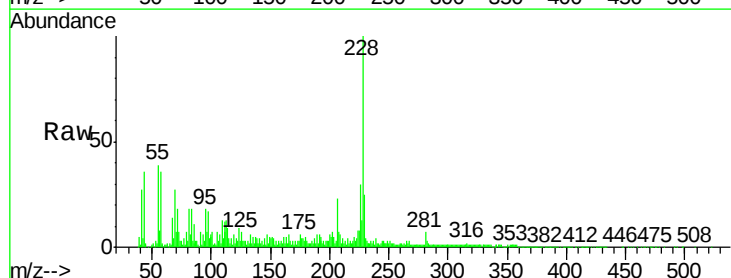
Tgt Ion:228 Resp: 170259

Ion Ratio Lower Upper

228 100

226 30.3 23.7 35.5

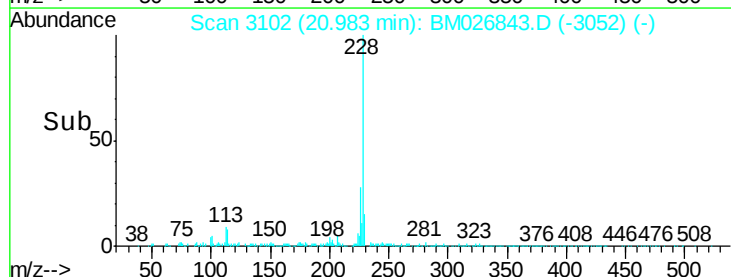
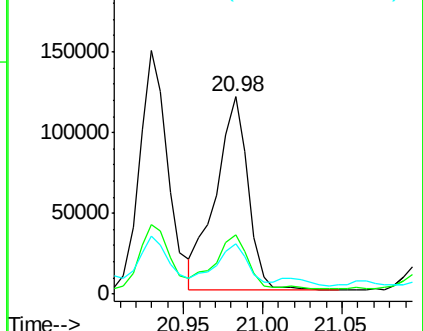
229 25.4 15.4 23.0#

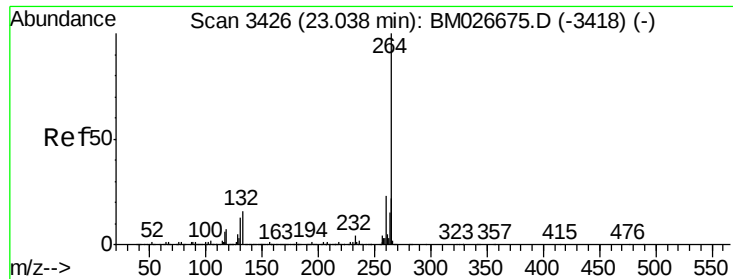


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

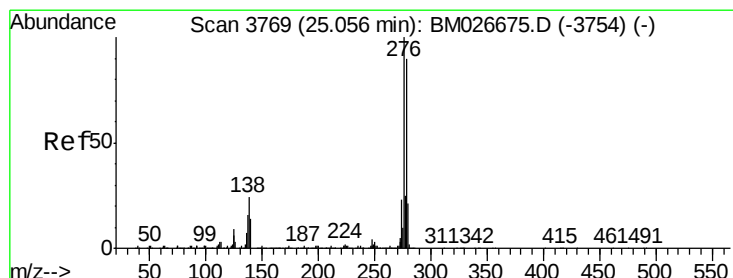
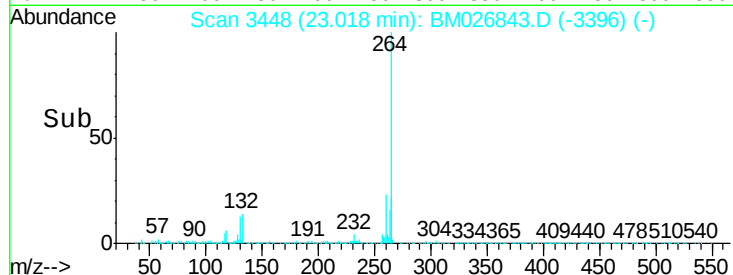
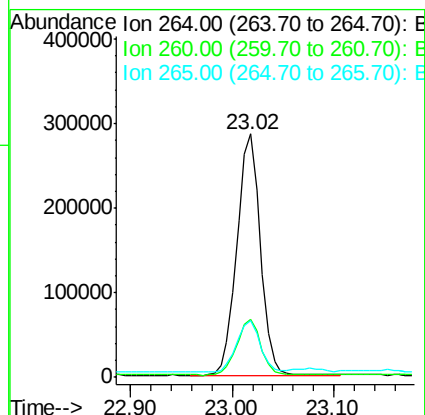
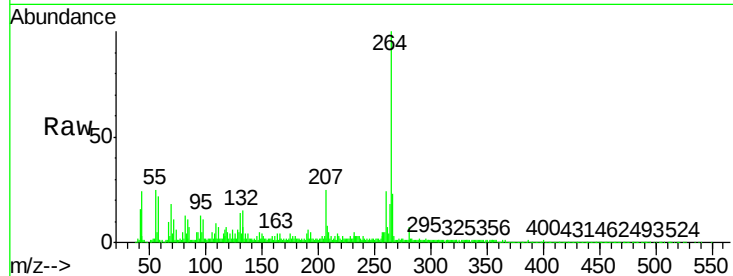




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 23.02 min Scan# 3448  
Delta R.T. 0.01 min  
Lab File: BM026843.D  
Acq: 22 Jul 2020 21:43

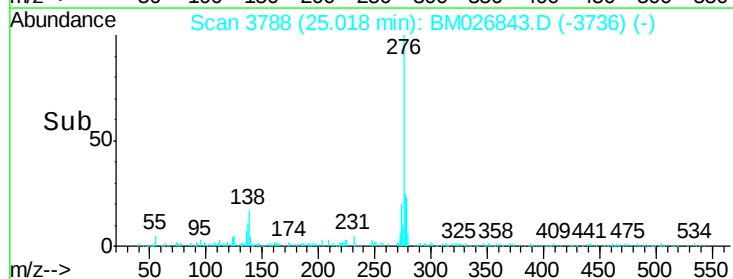
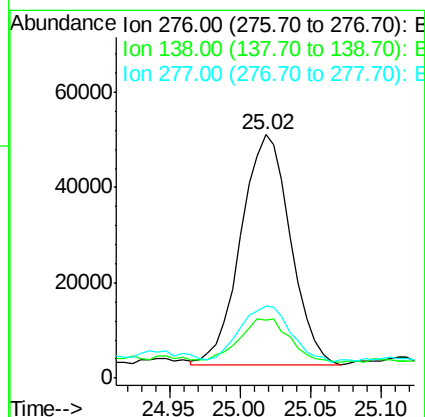
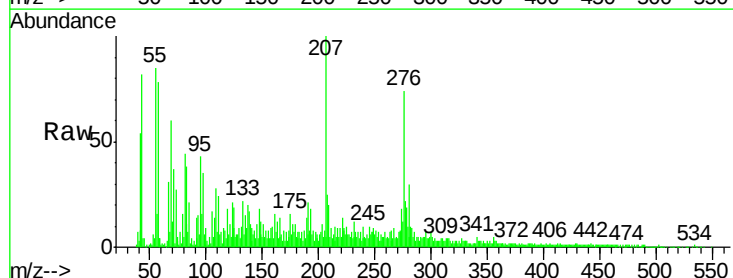
Instrument :  
BNA\_M  
ClientSampleId :  
EO-03-072020RX

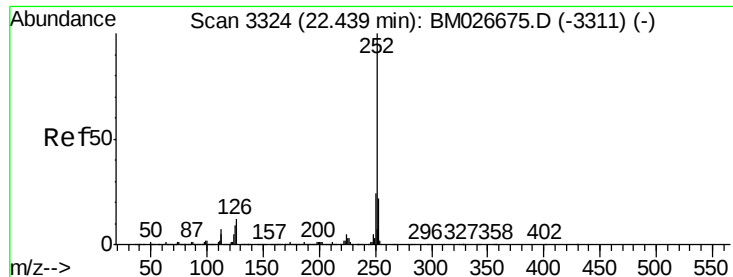
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:264 | Resp: | 460274    |
| Ion Ratio   | Lower | Upper     |
| 264         | 100   |           |
| 260         | 24.1  | 18.2 27.2 |
| 265         | 23.3  | 17.6 26.4 |



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.640 ng  
RT: 25.02 min Scan# 3788  
Delta R.T. 0.01 min  
Lab File: BM026843.D  
Acq: 22 Jul 2020 21:43

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:276 | Resp: | 119269    |
| Ion Ratio   | Lower | Upper     |
| 276         | 100   |           |
| 138         | 19.0  | 18.4 27.6 |
| 277         | 23.6  | 20.0 30.0 |





#88

Benzo(b)fluoranthene

Concen: 10.468 ng

RT: 22.42 min Scan# 3346

Delta R.T. -0.00 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

Instrument :

BNA\_M

ClientSampleId :

EO-03-072020RX

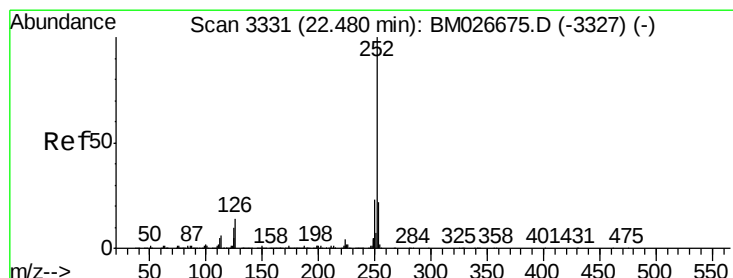
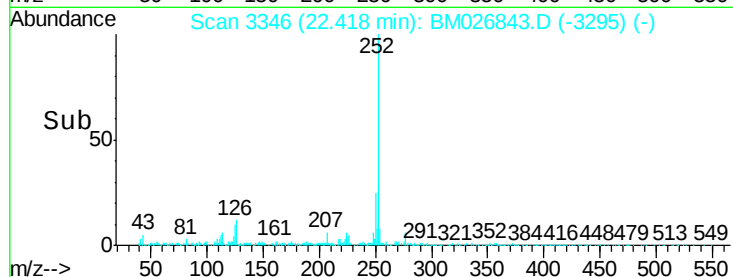
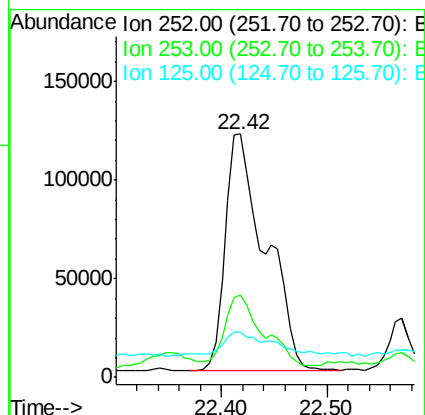
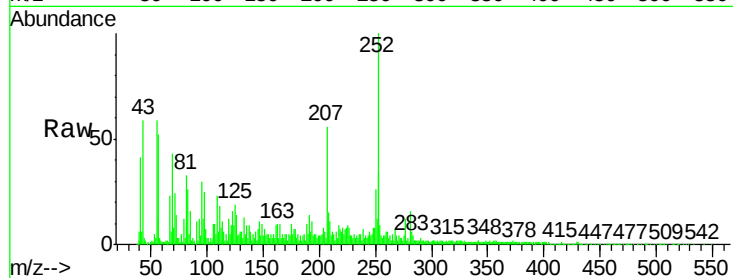
Tot Ion:252 Resp: 317470

Ion Ratio Lower Upper

252 100

253 33.9 17.5 26.3#

125 18.8 7.5 11.3#



#89

Benzo(k)fluoranthene

Concen: 10.677 ng

RT: 22.42 min Scan# 3346

Delta R.T. -0.04 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

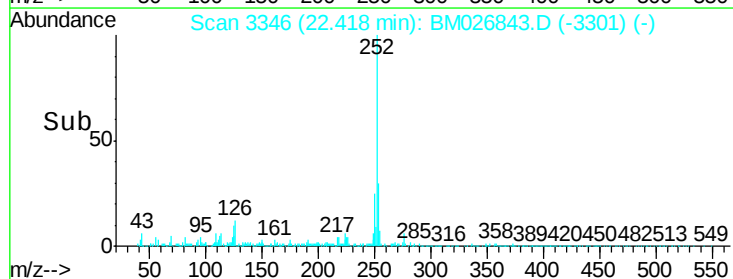
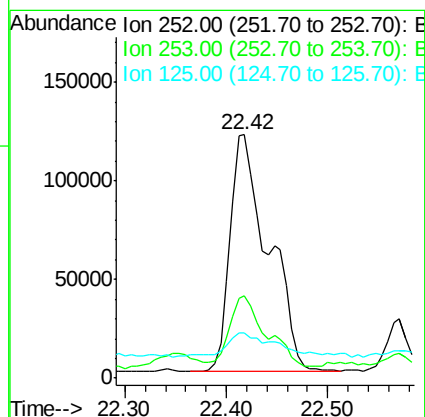
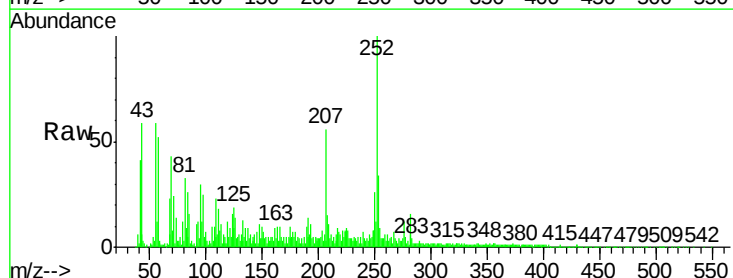
Tgt Ion:252 Resp: 317632

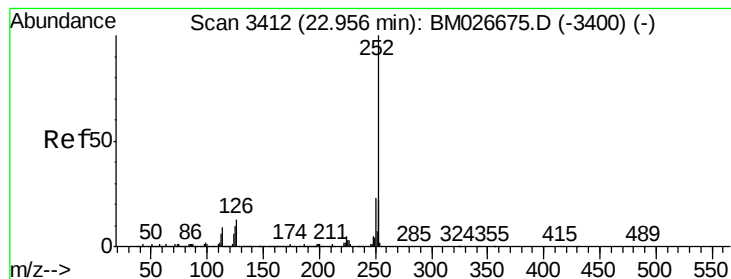
Ion Ratio Lower Upper

252 100

253 33.9 17.5 26.3#

125 18.8 7.8 11.8#





#90

Benzo(a)pyrene

Concen: 6.488 ng

RT: 22.93 min Scan# 3433

Delta R.T. 0.00 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

Instrument :

BNA\_M

ClientSampleId :

EO-03-072020RX

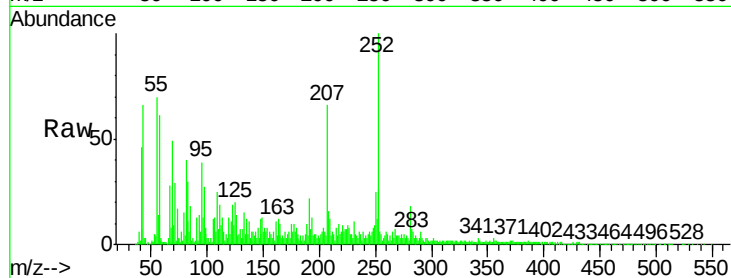
Tot Ion:252 Resp: 182653

Ion Ratio Lower Upper

252 100

253 26.2 17.4 26.2#

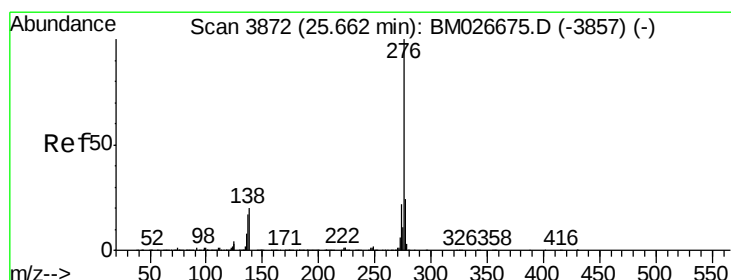
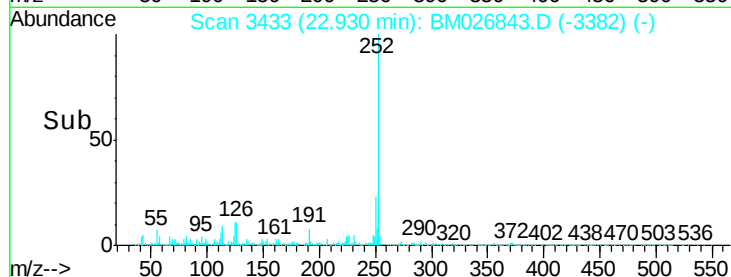
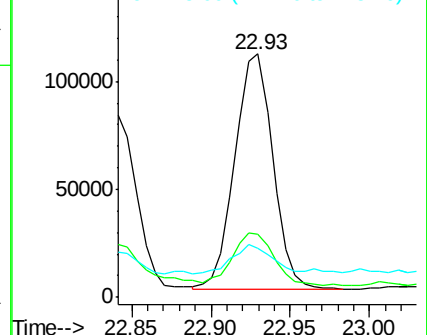
125 20.2 8.2 12.4#



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



#92

Benzo(g,h,i)perylene

Concen: 4.856 ng

RT: 25.62 min Scan# 3891

Delta R.T. 0.01 min

Lab File: BM026843.D

Acq: 22 Jul 2020 21:43

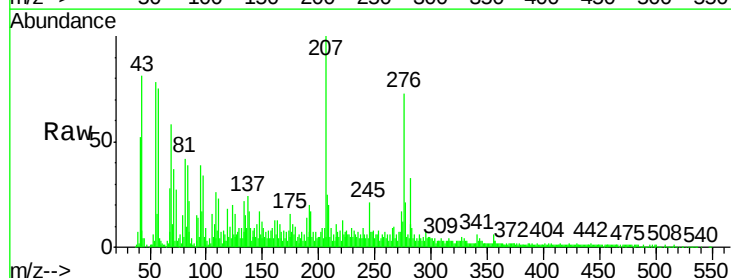
Tgt Ion:276 Resp: 123771

Ion Ratio Lower Upper

276 100

277 28.6 19.1 28.7

138 22.7 15.8 23.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

