

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082520\  
 Data File : BN011615.D  
 Acq On : 25 Aug 2020 14:48  
 Operator : CG/JU  
 Sample : L3768-05MS  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CS-3MS

Quant Time: Aug 25 15:23:15 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082420.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 25 03:31:11 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.75  | 152  | 3548     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.54 | 136  | 14802    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.39 | 164  | 9137     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.14 | 188  | 19927    | 0.40 | ng    | 0.00     |
| 29) Chrysene-d12          | 21.33 | 240  | 20360    | 0.40 | ng    | 0.00     |
| 36) Perylene-d12          | 23.60 | 264  | 23801    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.35  | 112  | 5201     | 0.46 | ng    | 0.00     |
| 5) Phenol-d6                | 6.92  | 99   | 7039     | 0.44 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.89  | 82   | 7249     | 0.57 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10 | 12.14 | 152  | 9284     | 0.33 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.88 | 330  | 1849     | 0.37 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.02 | 172  | 20138    | 0.57 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 19.17 | 212  | 20017    | 0.31 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.78 | 244  | 32220    | 0.62 | ng    | 0.00     |

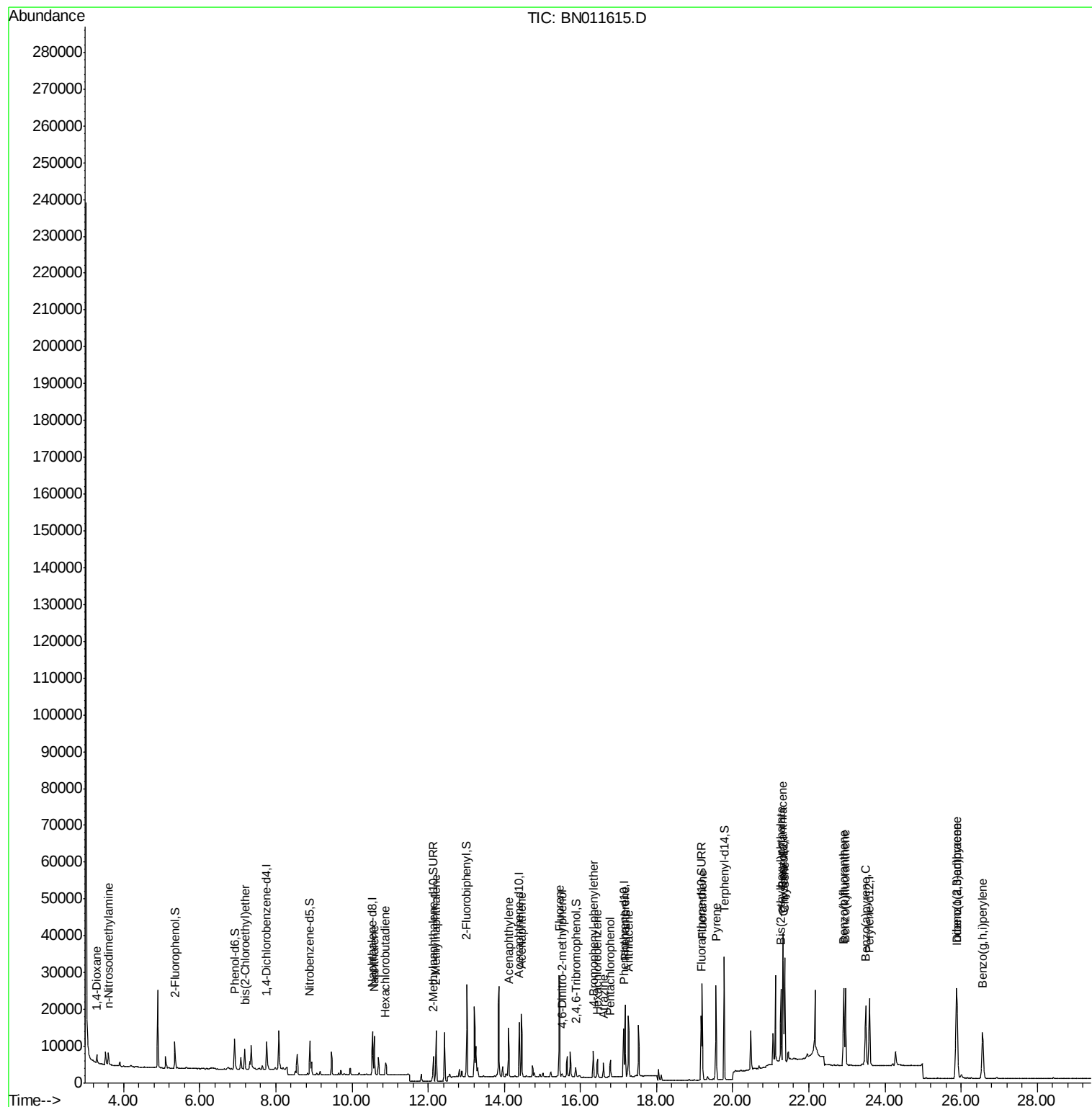
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.30  | 88   | 1387     | 0.252 | ng    | # 1    |
| 3) n-Nitrosodimethylamine      | 3.60  | 42   | 1947     | 0.336 | ng    | # 90   |
| 6) bis(2-Chloroethyl)ether     | 7.18  | 93   | 3717     | 0.326 | ng    | 96     |
| 9) Naphthalene                 | 10.59 | 128  | 13088    | 0.311 | ng    | # 94   |
| 10) Hexachlorobutadiene        | 10.88 | 225  | 2571     | 0.292 | ng    | # 99   |
| 12) 2-Methylnaphthalene        | 12.21 | 142  | 9476     | 0.305 | ng    | 97     |
| 16) Acenaphthylene             | 14.11 | 152  | 14171    | 0.294 | ng    | 99     |
| 17) Acenaphthene               | 14.45 | 154  | 8888     | 0.291 | ng    | 96     |
| 18) Fluorene                   | 15.44 | 166  | 11471    | 0.290 | ng    | 98     |
| 20) 4,6-Dinitro-2-methylphenol | 15.52 | 198  | 639      | 0.278 | ng    | # 37   |
| 21) 4-Bromophenyl-phenylether  | 16.34 | 248  | 3342     | 0.287 | ng    | # 68   |
| 22) Hexachlorobenzene          | 16.45 | 284  | 3988     | 0.297 | ng    | 99     |
| 23) Atrazine                   | 16.61 | 200  | 2849     | 0.248 | ng    | # 92   |
| 24) Pentachlorophenol          | 16.79 | 266  | 2228     | 0.376 | ng    | 93     |
| 25) Phenanthrene               | 17.18 | 178  | 18900    | 0.305 | ng    | 100    |
| 26) Anthracene                 | 17.26 | 178  | 18056    | 0.296 | ng    | 99     |
| 28) Fluoranthene               | 19.20 | 202  | 22623    | 0.302 | ng    | 100    |
| 30) Pvrene                     | 19.57 | 202  | 23544    | 0.326 | ng    | 99     |
| 32) Benzo(a)anthracene         | 21.32 | 228  | 24353    | 0.332 | ng    | 99     |
| 33) Chrysene                   | 21.36 | 228  | 23421    | 0.335 | ng    | 99     |
| 34) Bis(2-ethylhexyl)phthalate | 21.27 | 149  | 15360    | 0.286 | ng    | 95     |
| 35) Indeno(1,2,3-cd)pyrene     | 25.87 | 276  | 31382    | 0.367 | ng    | # 100  |
| 37) Benzo(b)fluoranthene       | 22.91 | 252  | 26478    | 0.307 | ng    | 98     |
| 38) Benzo(k)fluoranthene       | 22.96 | 252  | 25526    | 0.298 | ng    | 98     |
| 39) Benzo(a)pyrene             | 23.50 | 252  | 23566    | 0.293 | ng    | 96     |
| 40) Dibenzo(a,h)anthracene     | 25.89 | 278  | 26264    | 0.313 | ng    | 96     |
| 41) Benzo(g,h,i)perylene       | 26.57 | 276  | 26884    | 0.330 | ng    | 97     |

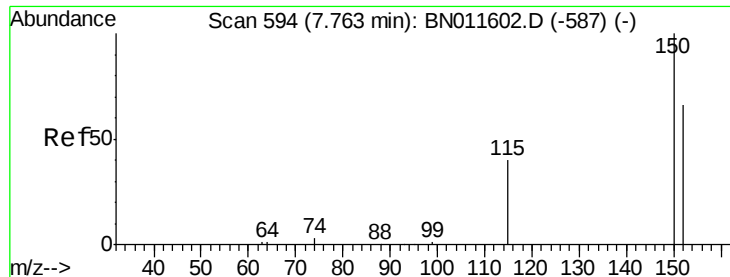
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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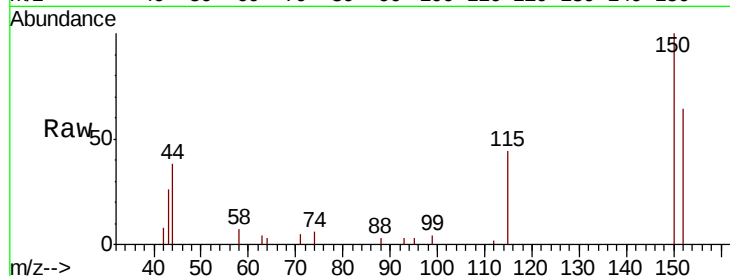


#1

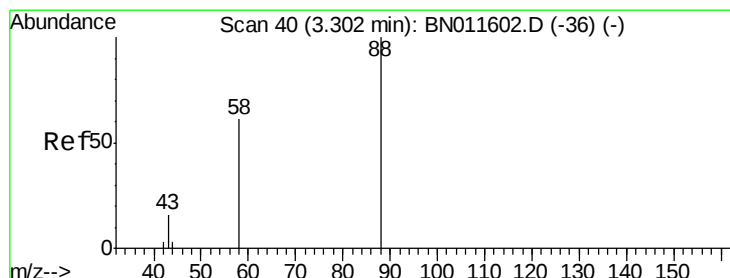
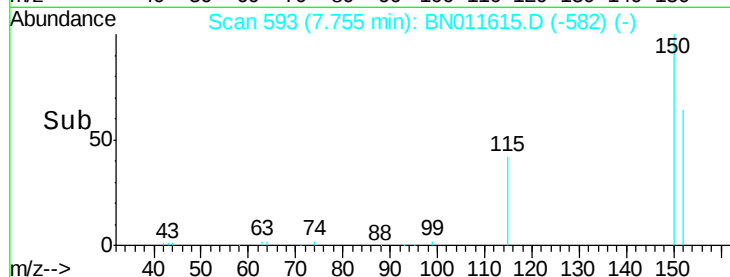
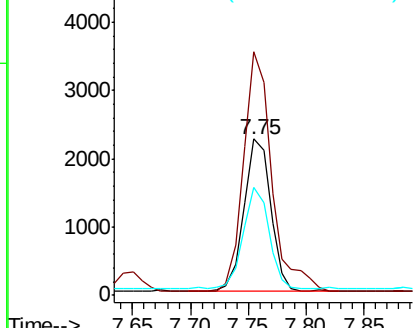
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.75 min Scan# 593  
 Delta R.T. -0.01 min  
 Lab File: BN011615.D  
 Acq: 25 Aug 2020 14:48

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CS-3MS

Tot Ion:152 Resp: 3548  
 Ion Ratio Lower Upper  
 152 100  
 150 155.8 112.4 168.6  
 115 68.7 56.9 85.3



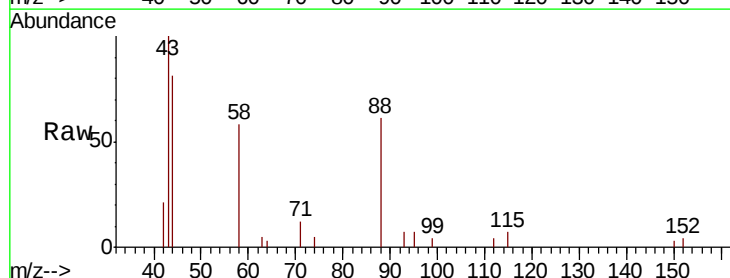
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



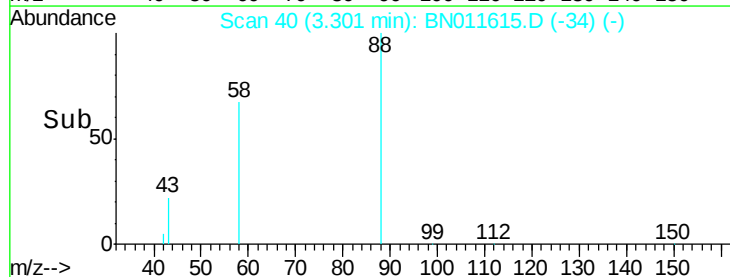
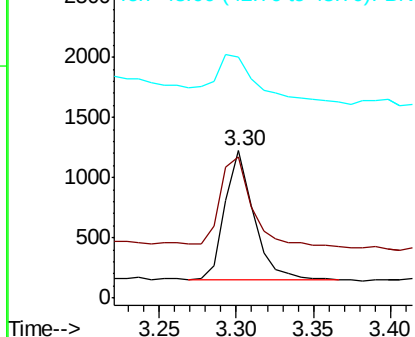
#2

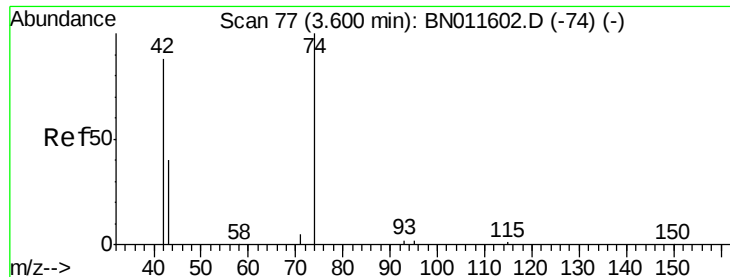
1,4-Dioxane  
 Concen: 0.252 ng  
 RT: 3.30 min Scan# 40  
 Delta R.T. -0.00 min  
 Lab File: BN011615.D  
 Acq: 25 Aug 2020 14:48

Tgt Ion: 88 Resp: 1387  
 Ion Ratio Lower Upper  
 88 100  
 58 76.0 3.0 4.4#  
 43 54.6 0.0 0.0#



Abundance Ion 88.00 (87.70 to 88.70): BN0  
 Ion 58.00 (57.70 to 58.70): BN0  
 Ion 43.00 (42.70 to 43.70): BN0





#3

n-Nitrosodimethylamine

Concen: 0.336 ng

RT: 3.60 min Scan# 77

Delta R.T. -0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

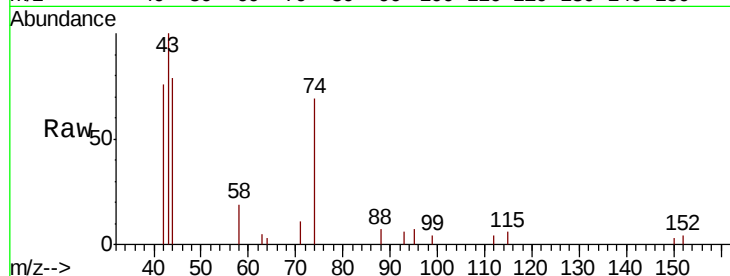
Tot Ion: 42 Resp: 1947

Ion Ratio Lower Upper

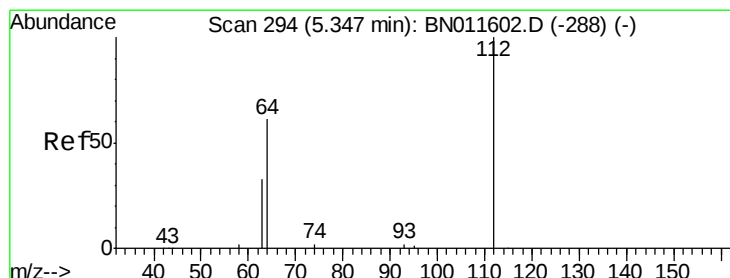
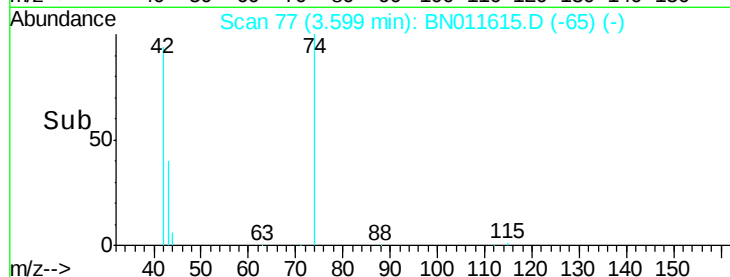
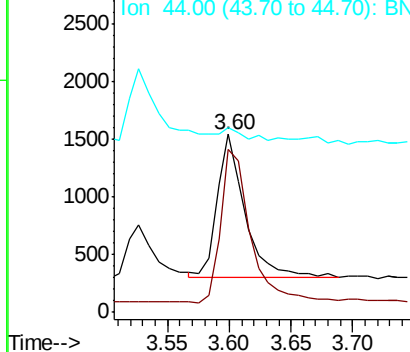
42 100

74 112.9 0.0 0.0#

44 6.5 8.2 12.4#



Abundance Ion 42.00 (41.70 to 42.70): BN0  
Ion 74.00 (73.70 to 74.70): BN0  
Ion 44.00 (43.70 to 44.70): BN0



#4

2-Fluorophenol

Concen: 0.458 ng

RT: 5.35 min Scan# 294

Delta R.T. -0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

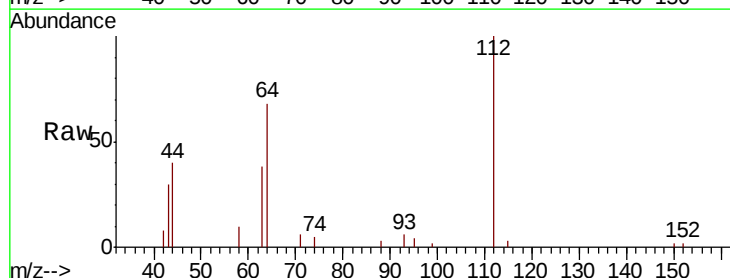
Tgt Ion: 112 Resp: 5201

Ion Ratio Lower Upper

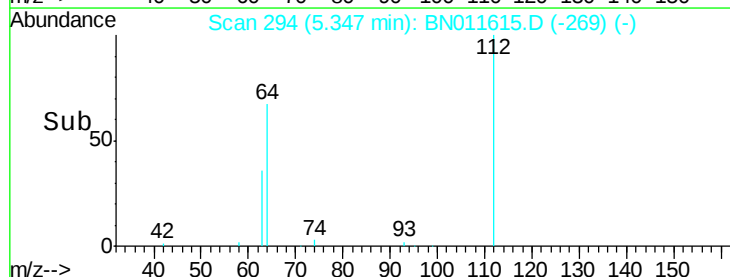
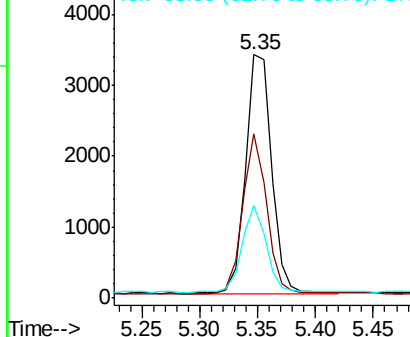
112 100

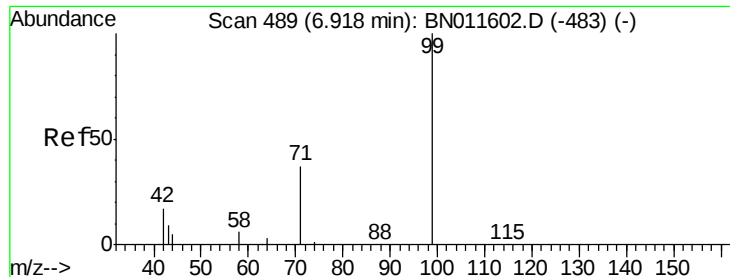
64 61.9 49.6 74.4

63 33.7 26.4 39.6



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BN0  
Ion 63.00 (62.70 to 63.70): BN0





#5

Phenol-d6

Concen: 0.439 ng

RT: 6.92 min Scan# 489

Delta R.T. -0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

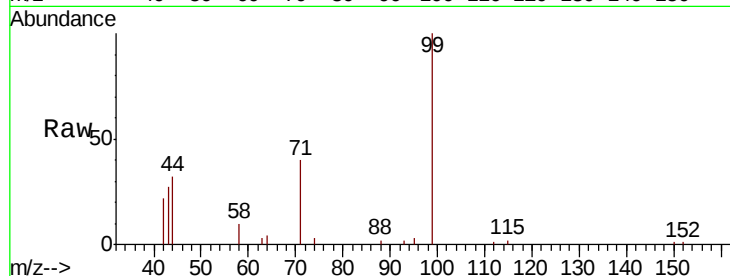
Tot Ion: 99 Resp: 7039

Ion Ratio Lower Upper

99 100

42 21.1 0.0 0.0#

71 38.5 0.0 0.0#



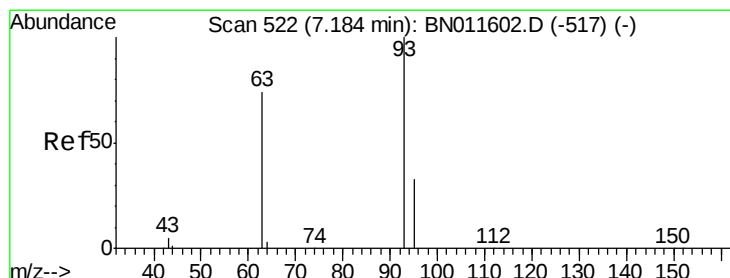
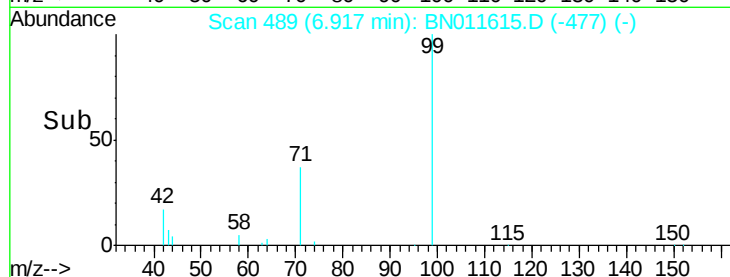
Abundance Ion 99.00 (98.70 to 99.70): BN011615.D (-477) (-)

Ion 42.00 (41.70 to 42.70): BN011615.D (-477) (-)

Ion 71.00 (70.70 to 71.70): BN011615.D (-477) (-)

6.92

Time--> 6.80 6.90 7.00



#6

bis(2-Chloroethyl)ether

Concen: 0.326 ng

RT: 7.18 min Scan# 522

Delta R.T. -0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

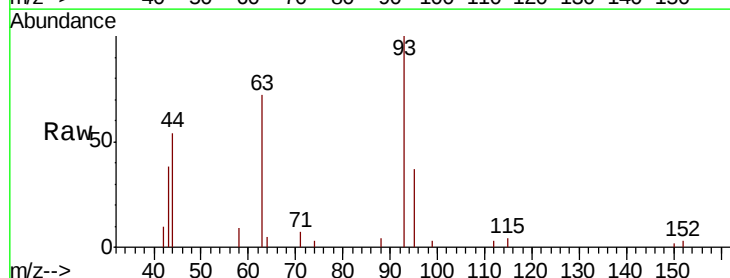
Tgt Ion: 93 Resp: 3717

Ion Ratio Lower Upper

93 100

63 75.4 57.8 86.8

95 33.2 28.3 42.5



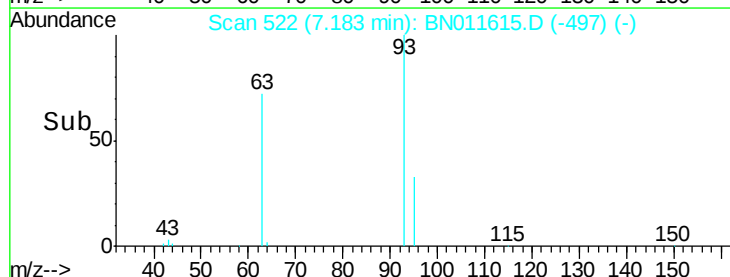
Abundance Ion 93.00 (92.70 to 93.70): BN011615.D (-497) (-)

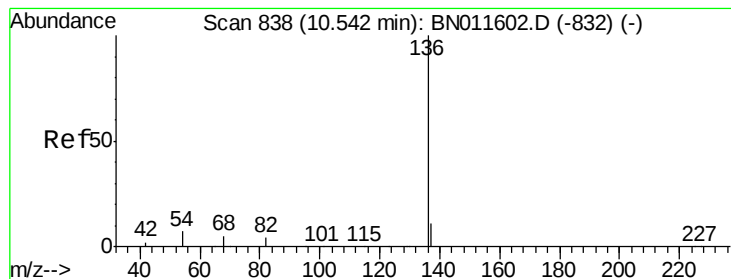
Ion 63.00 (62.70 to 63.70): BN011615.D (-497) (-)

Ion 95.00 (94.70 to 95.70): BN011615.D (-497) (-)

7.18

Time--> 7.10 7.15 7.20 7.25





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.54 min Scan# 838

Delta R.T. -0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

Tot Ion:136 Resp: 14802

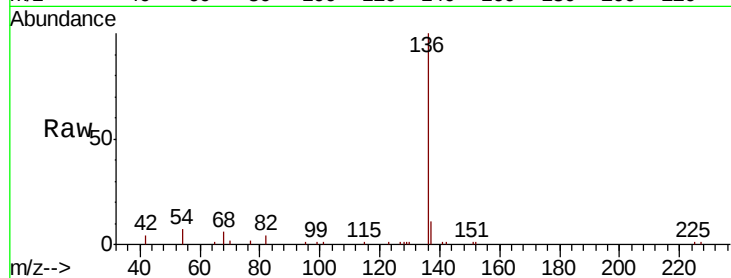
Ion Ratio Lower Upper

136 100

137 11.5 11.5 17.3#

54 6.8 11.9 17.9#

68 5.6 12.3 18.5#

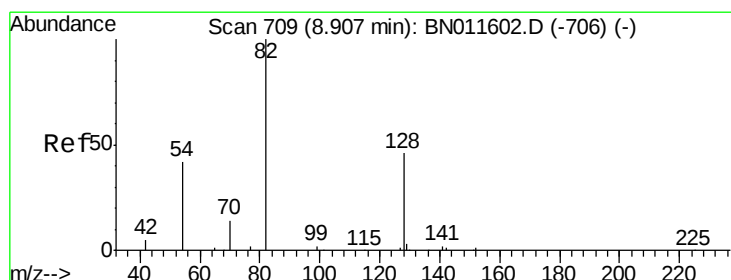
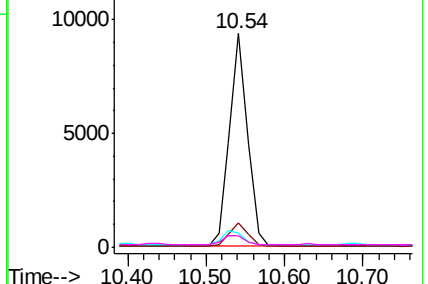
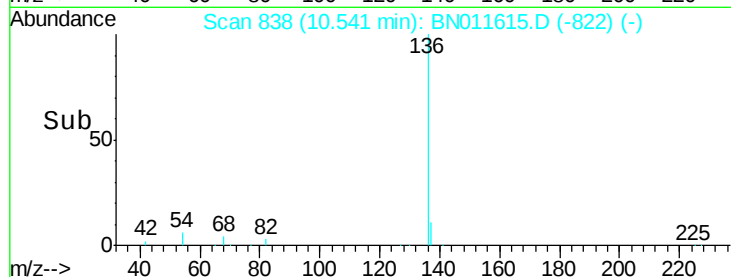


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.566 ng

RT: 8.89 min Scan# 708

Delta R.T. -0.01 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

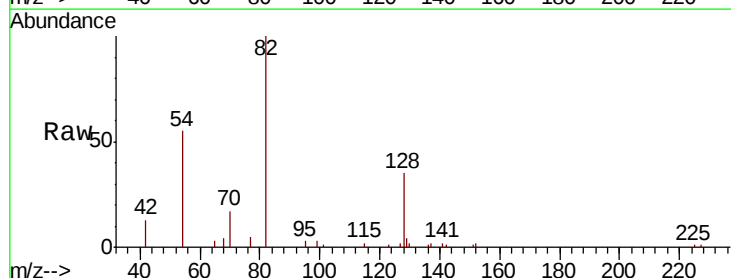
Tgt Ion: 82 Resp: 7249

Ion Ratio Lower Upper

82 100

128 34.8 31.1 46.7

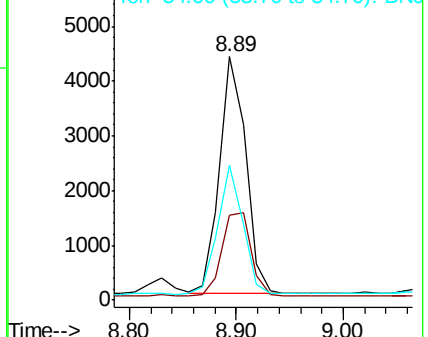
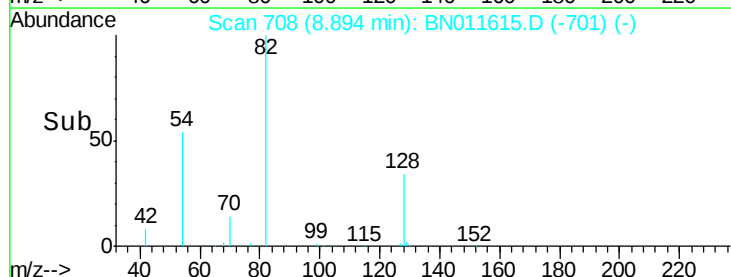
54 55.2 37.1 55.7

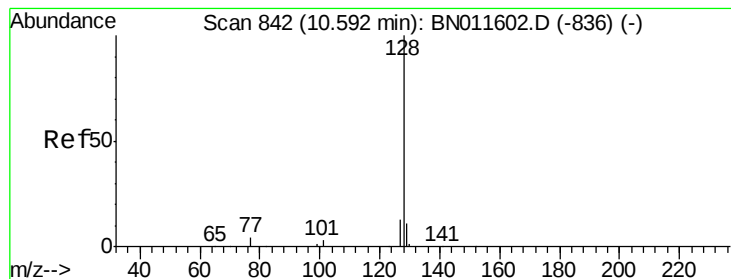


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.311 ng

RT: 10.59 min Scan# 842

Delta R.T. -0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

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ClientSampleId :

CS-3MS

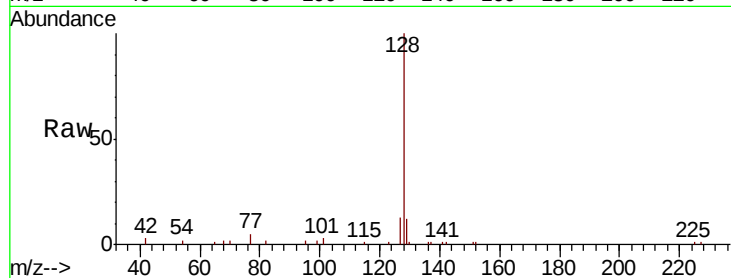
Tot Ion:128 Resp: 13088

Ion Ratio Lower Upper

128 100

129 11.9 11.0 16.4

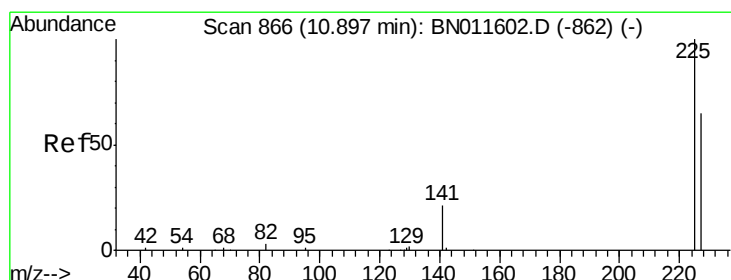
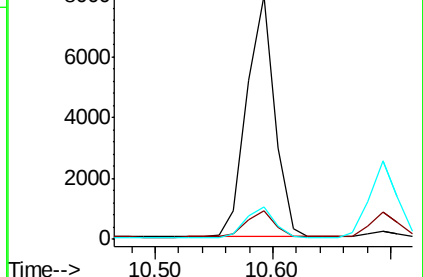
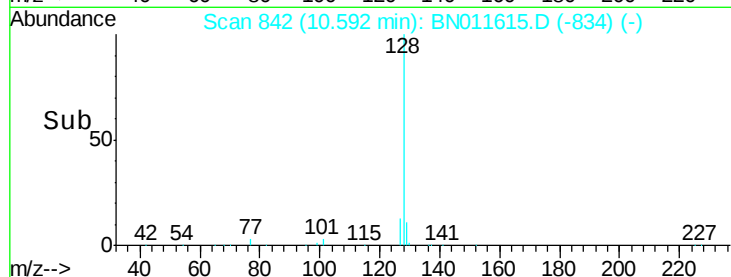
127 13.5 13.5 20.3#



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



#10

Hexachlorobutadiene

Concen: 0.292 ng

RT: 10.88 min Scan# 865

Delta R.T. -0.01 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

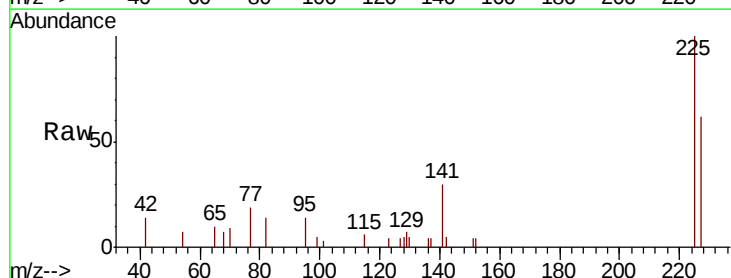
Tgt Ion:225 Resp: 2571

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

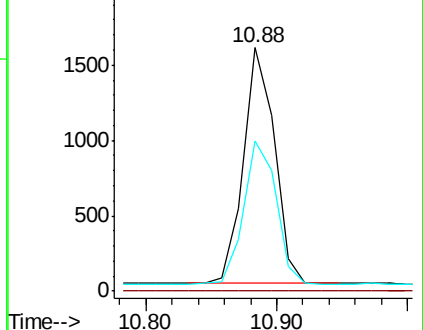
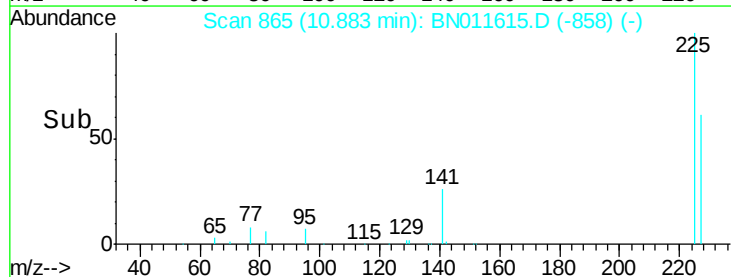
227 63.2 50.2 75.2

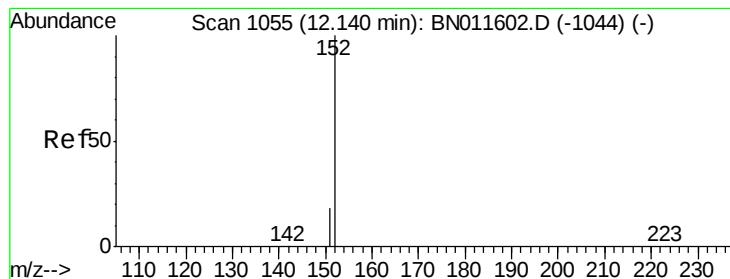


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.331 ng

RT: 12.14 min Scan# 1054

Delta R.T. -0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

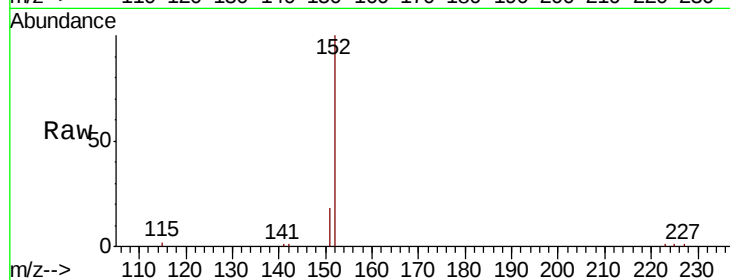
CS-3MS

Tot Ion:152 Resp: 9284

Ion Ratio Lower Upper

152 100

151 17.9 16.4 24.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

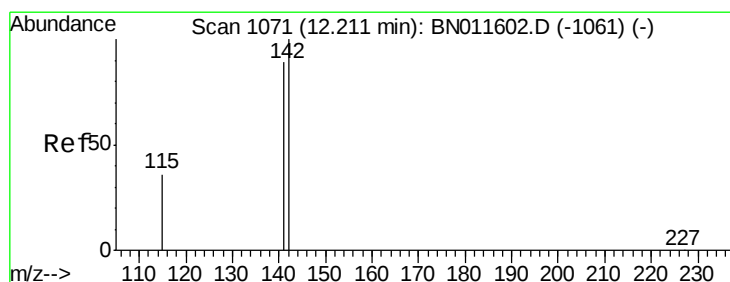
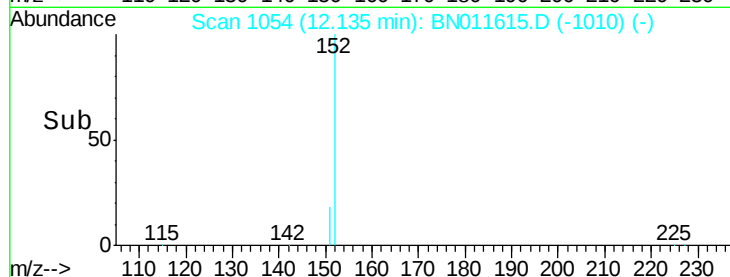
6000

4000

2000

0

Time--> 12.00 12.10 12.20



#12

2-Methylnaphthalene

Concen: 0.305 ng

RT: 12.21 min Scan# 1071

Delta R.T. -0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

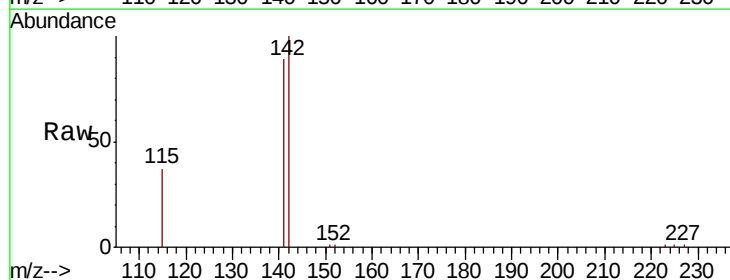
Tgt Ion:142 Resp: 9476

Ion Ratio Lower Upper

142 100

141 88.7 72.7 109.1

115 37.2 32.7 49.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

8000

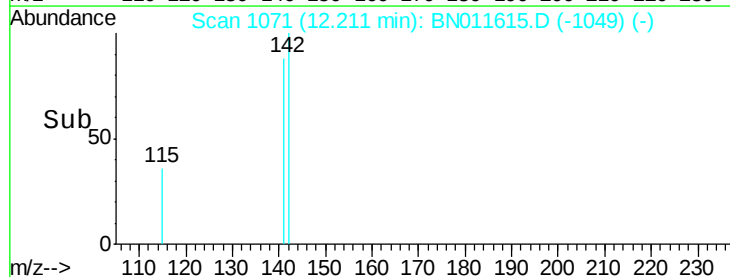
6000

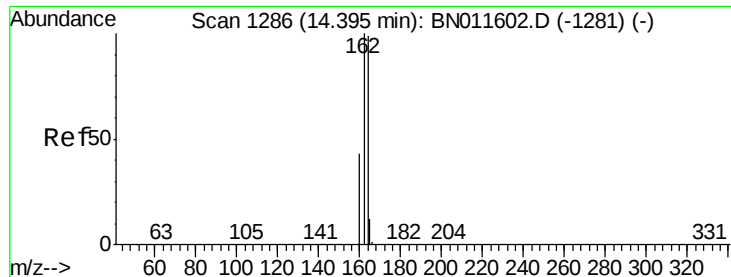
4000

2000

0

Time--> 12.15 12.20 12.25





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.39 min Scan# 1286

Delta R.T. -0.01 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

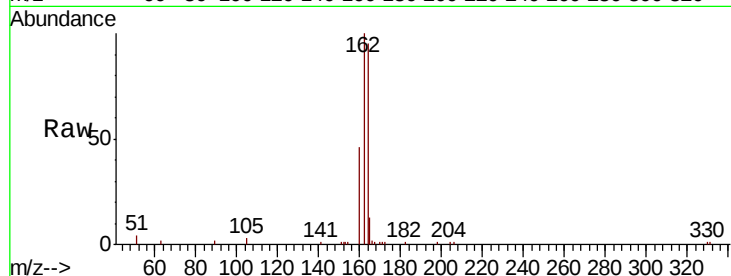
Tot Ion:164 Resp: 9137

Ion Ratio Lower Upper

164 100

162 105.3 80.8 121.2

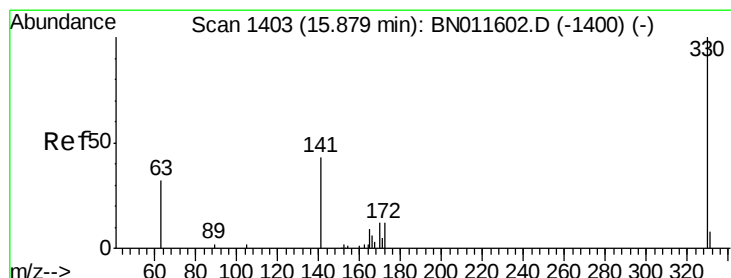
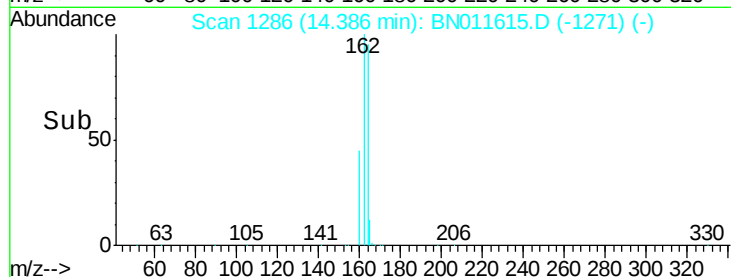
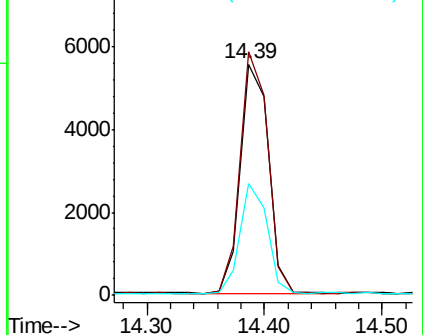
160 48.4 35.6 53.4



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



#14

2,4,6-Tribromophenol

Concen: 0.368 ng

RT: 15.88 min Scan# 1404

Delta R.T. 0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

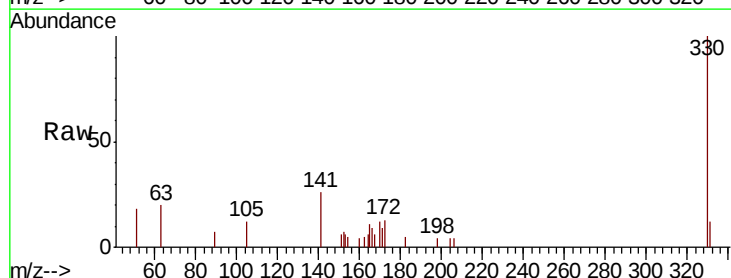
Tgt Ion:330 Resp: 1849

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

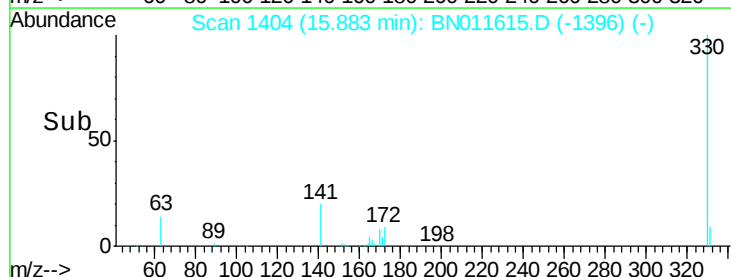
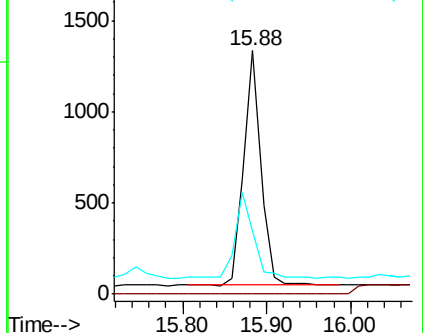
141 39.6 29.4 44.2

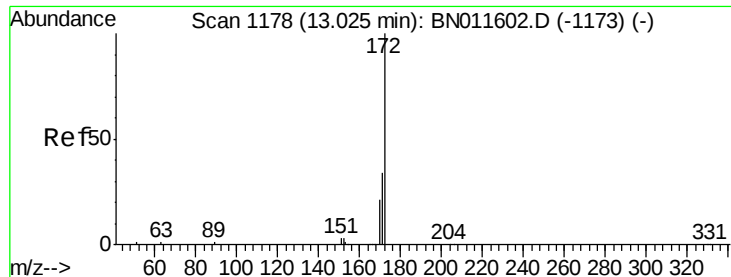


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

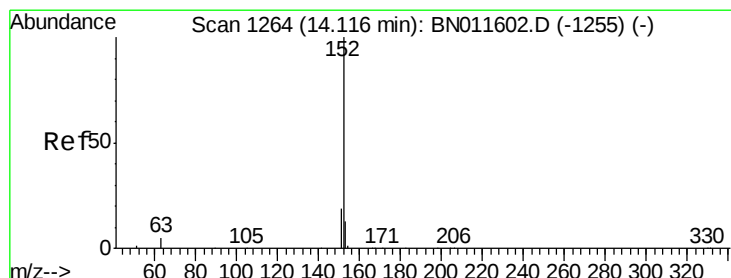
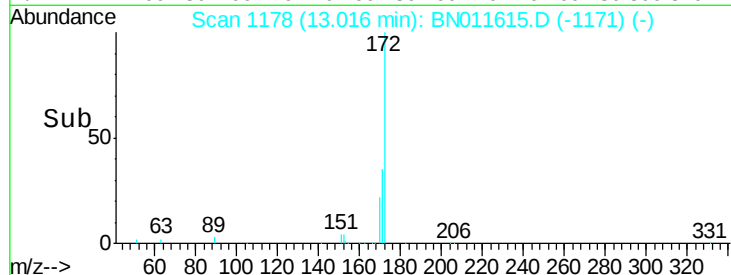
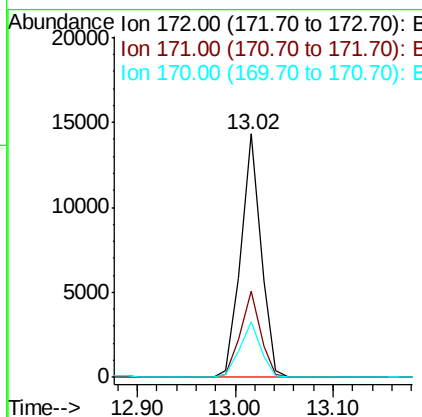
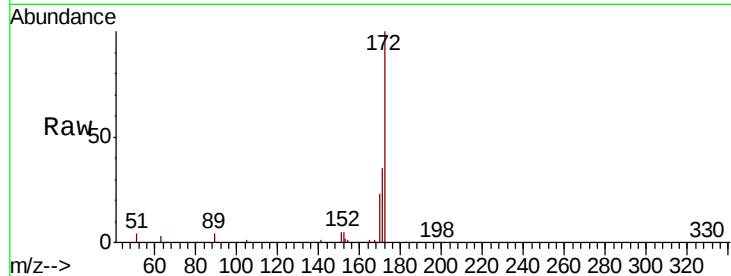




#15  
2-Fluorobiphenyl  
Concen: 0.566 ng  
RT: 13.02 min Scan# 1178  
Delta R.T. -0.01 min  
Lab File: BN011615.D  
Acq: 25 Aug 2020 14:48

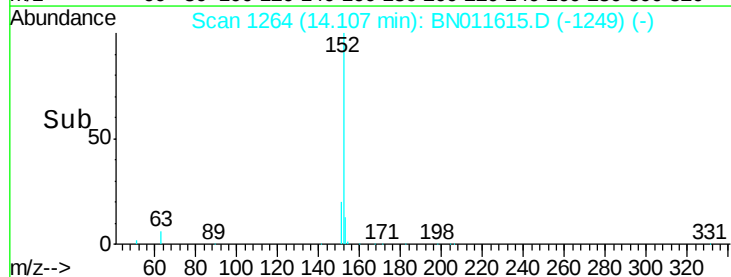
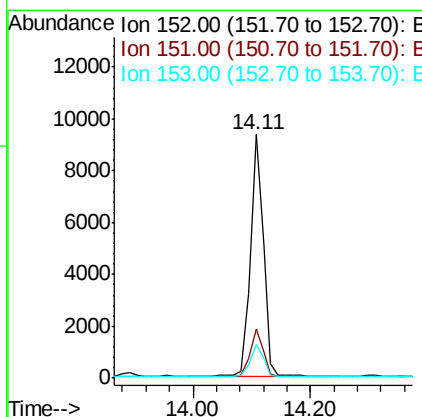
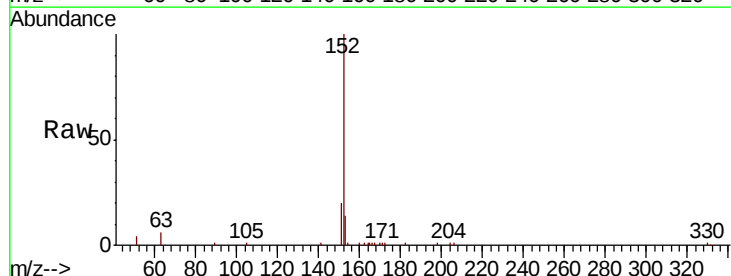
Instrument :  
BNA\_N  
ClientSampleId :  
CS-3MS

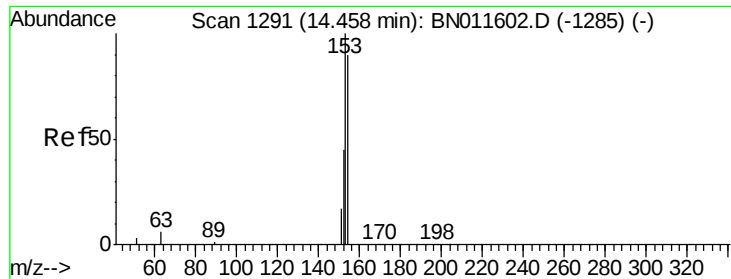
Tot Ion:172 Resp: 20138  
Ion Ratio Lower Upper  
172 100  
171 35.3 28.6 42.8  
170 22.8 18.2 27.2



#16  
Acenaphthylene  
Concen: 0.294 ng  
RT: 14.11 min Scan# 1264  
Delta R.T. -0.01 min  
Lab File: BN011615.D  
Acq: 25 Aug 2020 14:48

Tgt Ion:152 Resp: 14171  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.2 24.2  
153 13.4 11.0 16.4

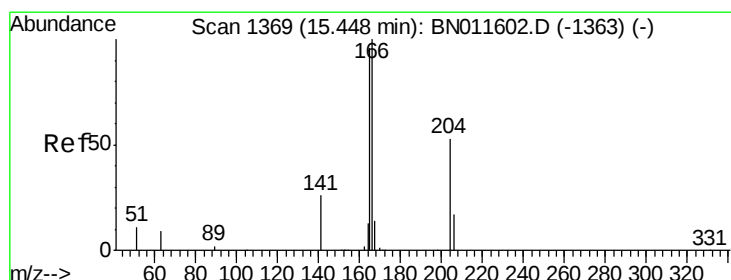
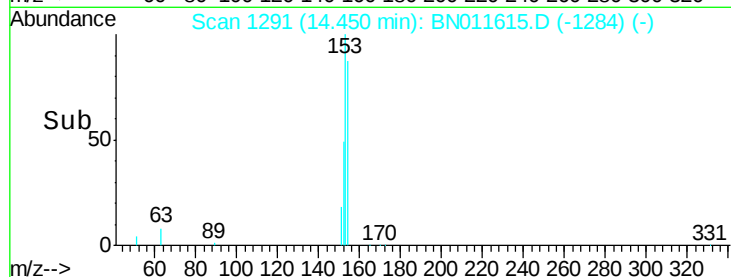
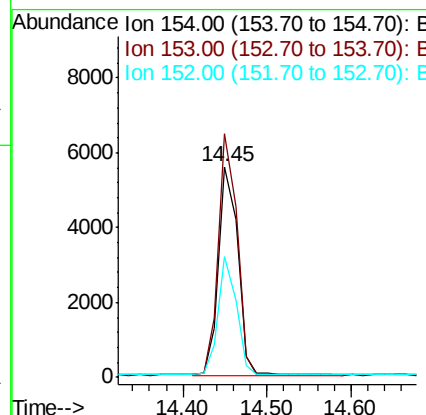
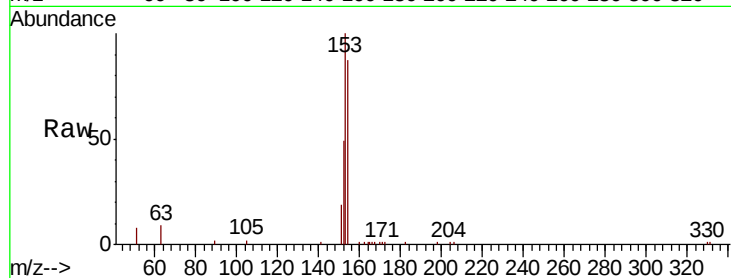




#17  
Acenaphthene  
Concen: 0.291 ng  
RT: 14.45 min Scan# 1291  
Delta R.T. -0.01 min  
Lab File: BN011615.D  
Acq: 25 Aug 2020 14:48

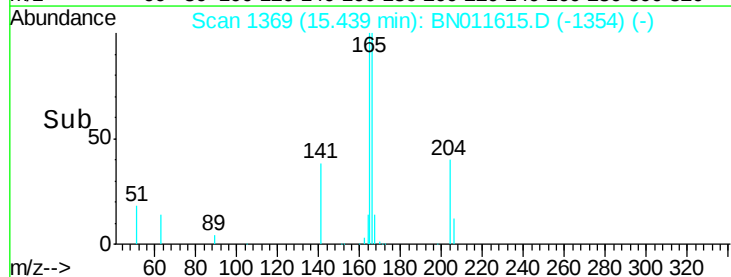
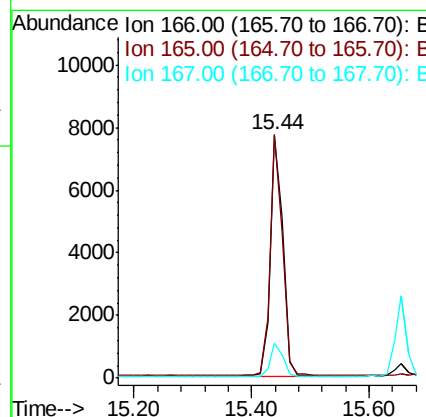
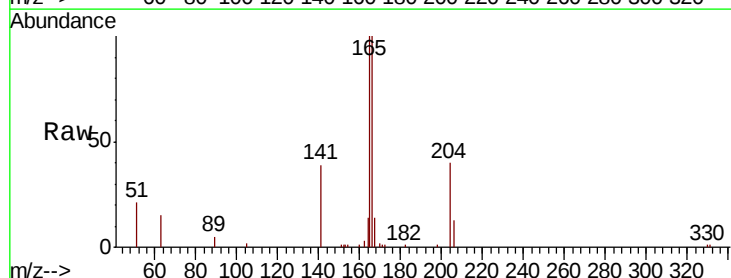
Instrument :  
BNA\_N  
ClientSampleId :  
CS-3MS

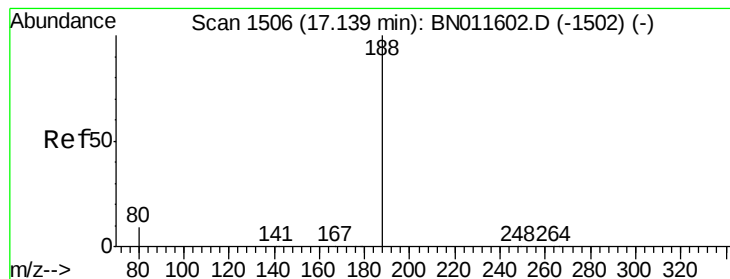
Tot Ion:154 Resp: 8888  
Ion Ratio Lower Upper  
154 100  
153 111.6 86.6 130.0  
152 53.1 40.1 60.1



#18  
Fluorene  
Concen: 0.290 ng  
RT: 15.44 min Scan# 1369  
Delta R.T. -0.01 min  
Lab File: BN011615.D  
Acq: 25 Aug 2020 14:48

Tgt Ion:166 Resp: 11471  
Ion Ratio Lower Upper  
166 100  
165 98.5 77.4 116.2  
167 13.9 11.5 17.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.14 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

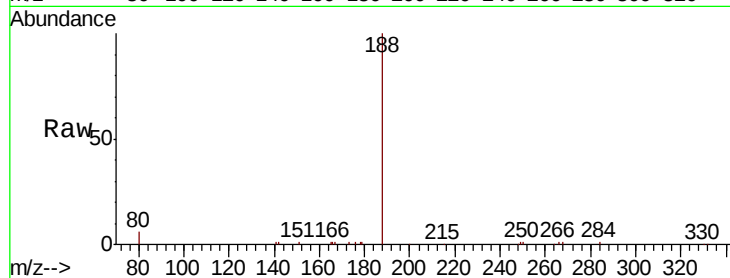
Tot Ion:188 Resp: 19927

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

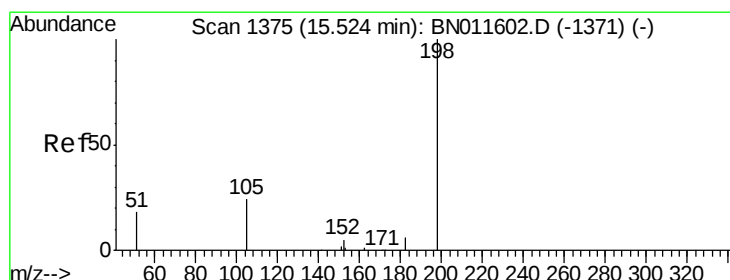
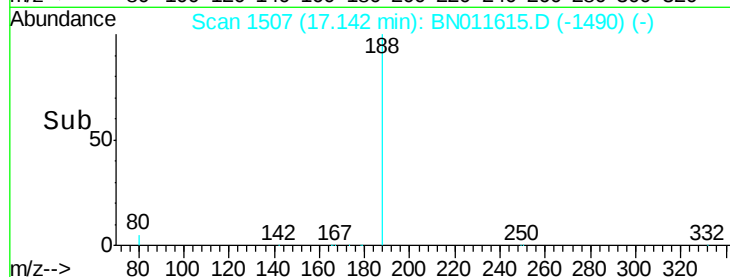
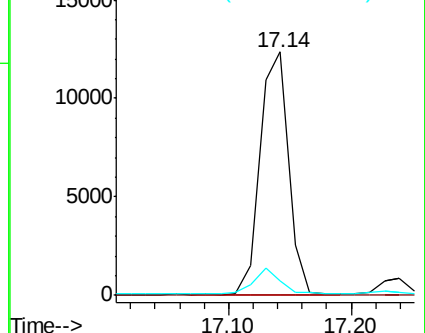
80 5.9 9.2 13.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#20

4,6-Dinitro-2-methylphenol

Concen: 0.278 ng

RT: 15.52 min Scan# 1375

Delta R.T. -0.01 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

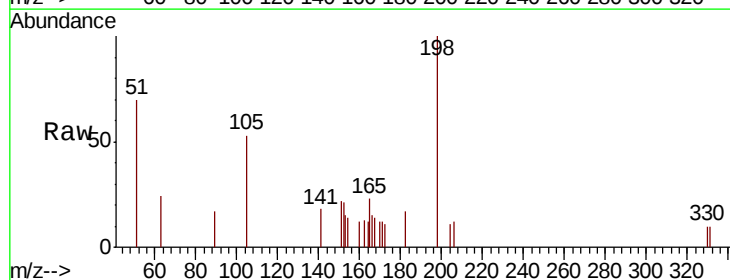
Tgt Ion:198 Resp: 639

Ion Ratio Lower Upper

198 100

51 69.5 99.6 149.4#

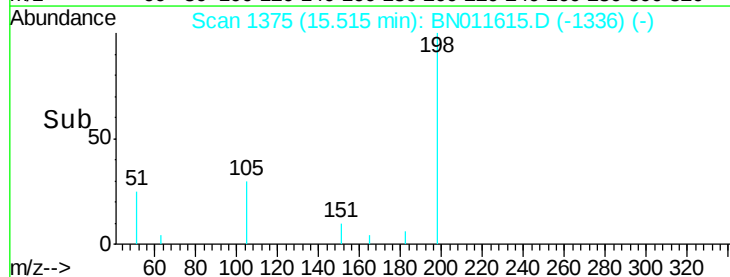
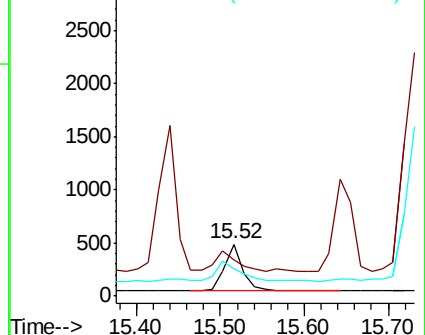
105 53.1 118.8 178.2#

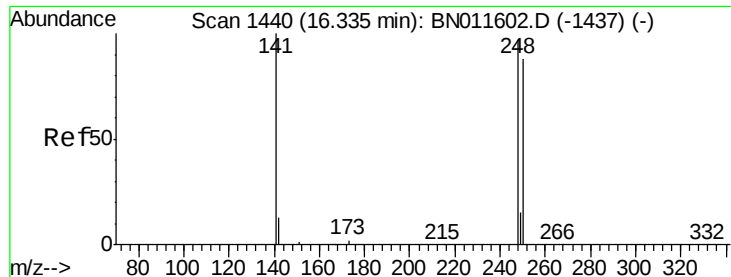


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BNC

Ion 105.00 (104.70 to 105.70): E





#21

4-Bromophenyl-phenylether

Concen: 0.287 ng

RT: 16.34 min Scan# 1441

Delta R.T. 0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

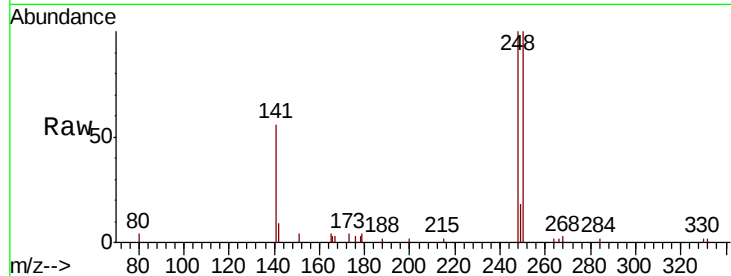
Tot Ion:248 Resp: 3342

Ion Ratio Lower Upper

248 100

250 100.3 73.4 110.2

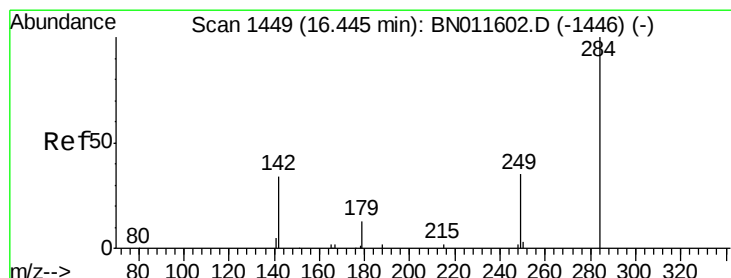
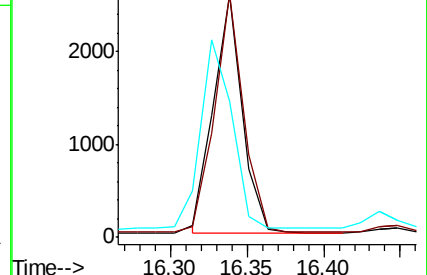
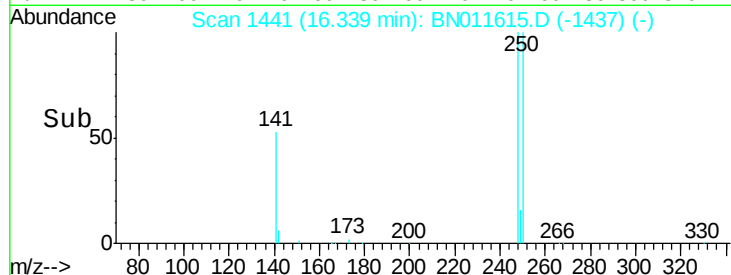
141 55.9 88.5 132.7#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#22

Hexachlorobenzene

Concen: 0.297 ng

RT: 16.45 min Scan# 1450

Delta R.T. 0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

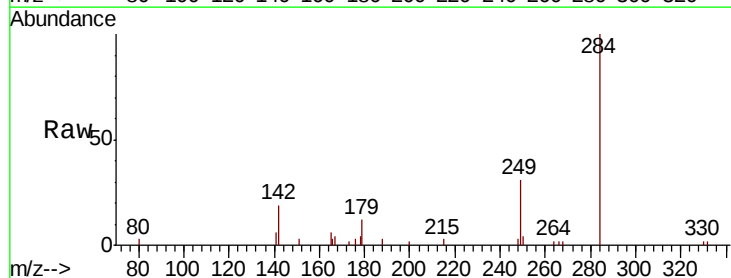
Tgt Ion:284 Resp: 3988

Ion Ratio Lower Upper

284 100

142 34.4 27.3 40.9

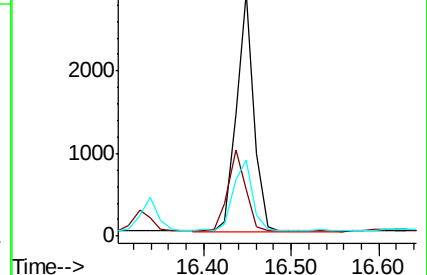
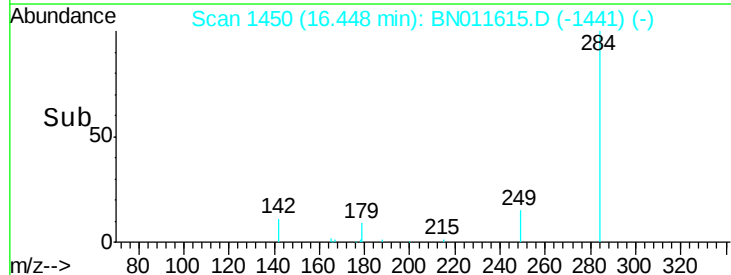
249 31.9 25.2 37.8

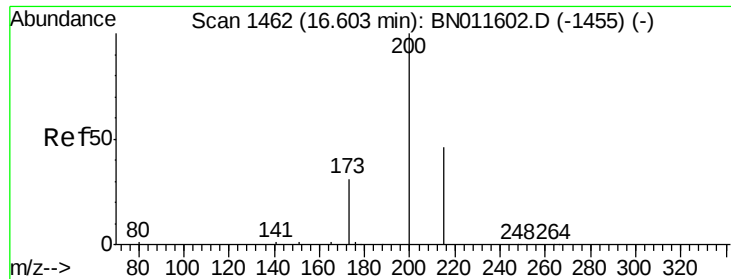


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

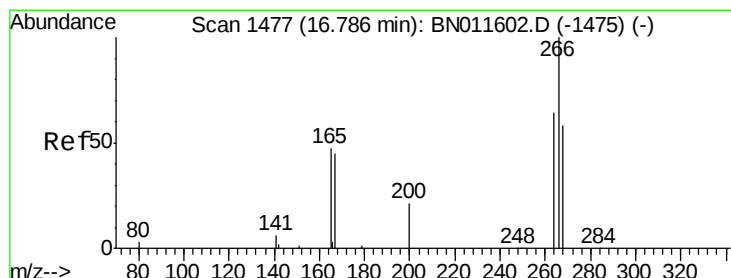
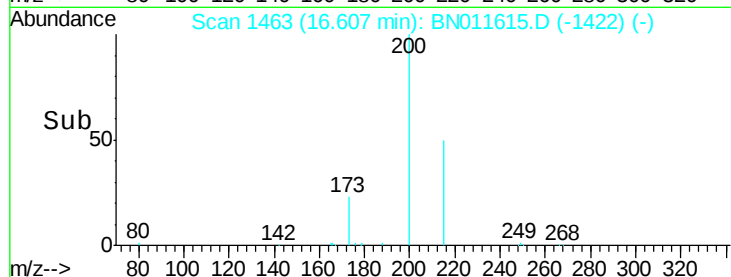
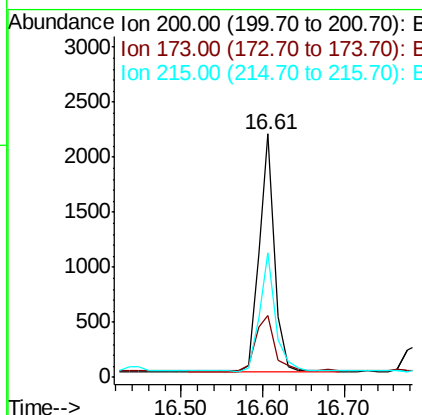
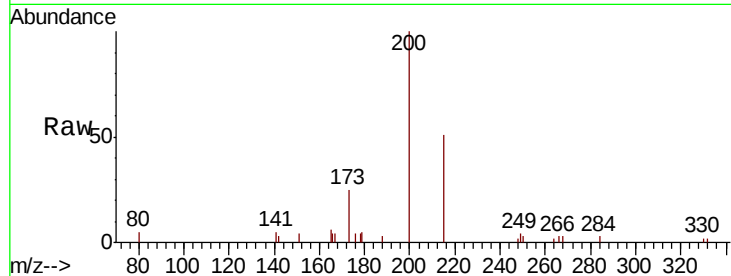




#23  
Atrazine  
Concen: 0.248 ng  
RT: 16.61 min Scan# 1463  
Delta R.T. 0.00 min  
Lab File: BN011615.D  
Acq: 25 Aug 2020 14:48

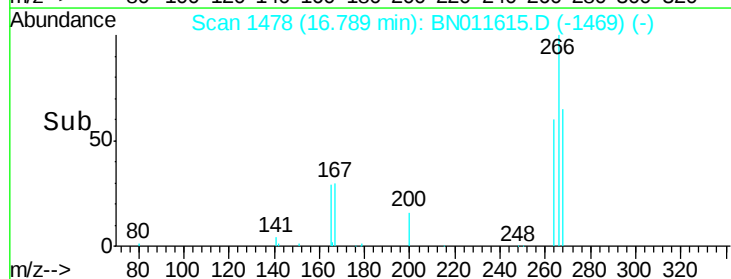
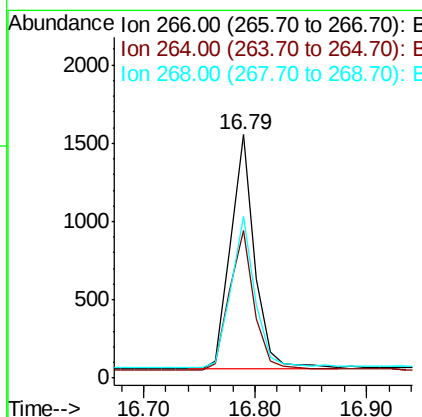
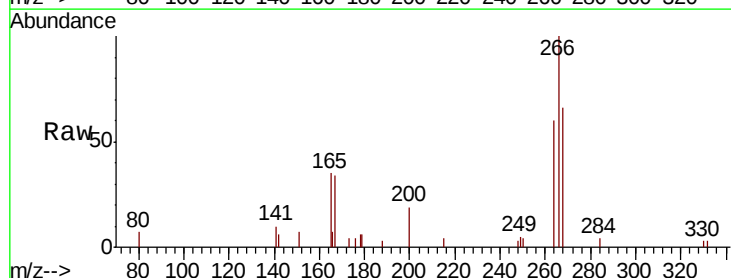
Instrument :  
BNA\_N  
ClientSampleId :  
CS-3MS

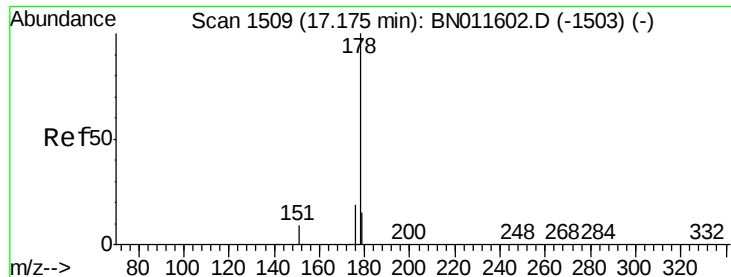
Tot Ion:200 Resp: 2849  
Ion Ratio Lower Upper  
200 100  
173 25.5 28.2 42.4#  
215 51.1 39.8 59.6



#24  
Pentachlorophenol  
Concen: 0.376 ng  
RT: 16.79 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: BN011615.D  
Acq: 25 Aug 2020 14:48

Tgt Ion:266 Resp: 2228  
Ion Ratio Lower Upper  
266 100  
264 63.6 48.1 72.1  
268 68.3 48.4 72.6





#25

Phenanthrene

Concen: 0.305 ng

RT: 17.18 min Scan# 1510

Delta R.T. 0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

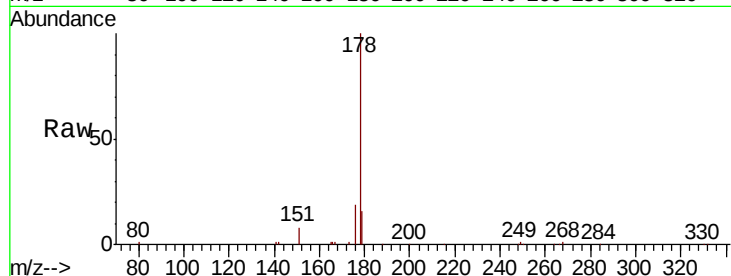
Tot Ion:178 Resp: 18900

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.4

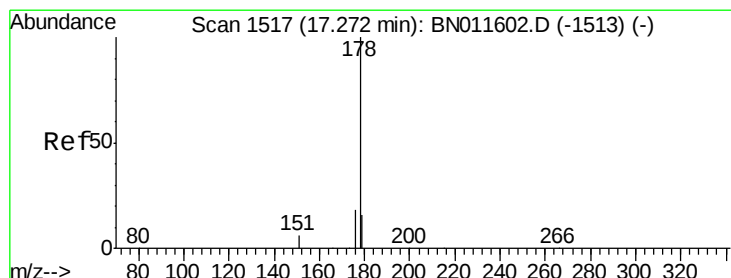
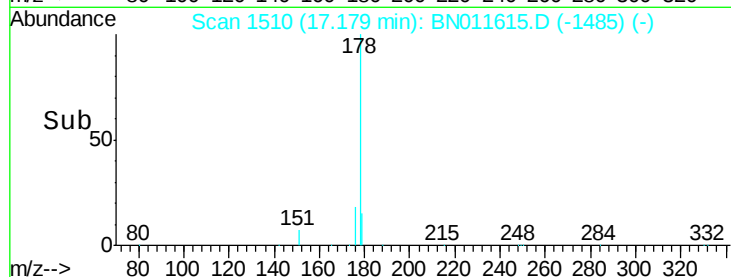
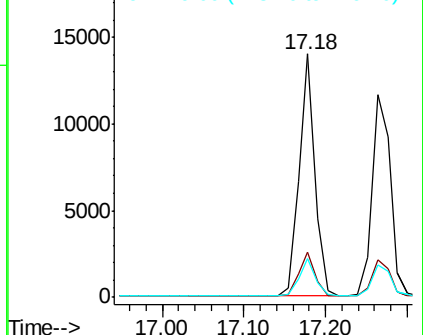
179 15.8 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#26

Anthracene

Concen: 0.296 ng

RT: 17.26 min Scan# 1517

Delta R.T. -0.01 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

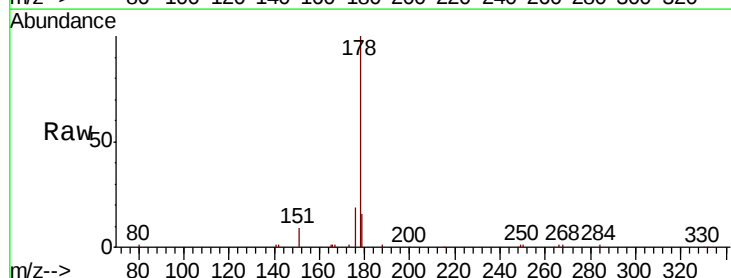
Tgt Ion:178 Resp: 18056

Ion Ratio Lower Upper

178 100

176 17.9 14.6 21.8

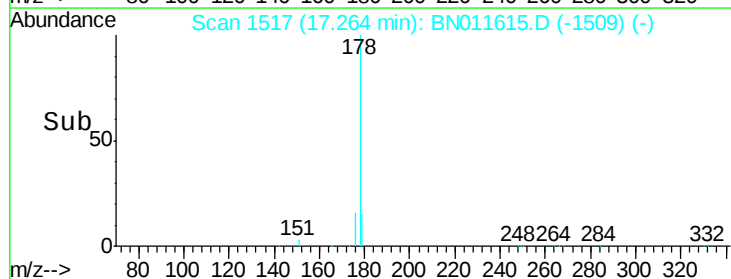
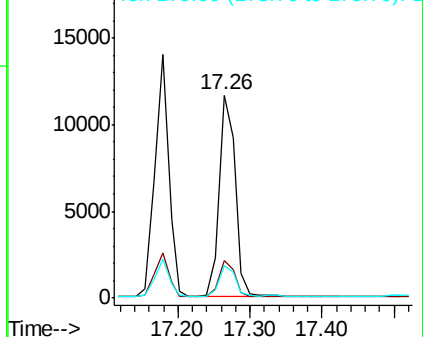
179 15.2 12.5 18.7

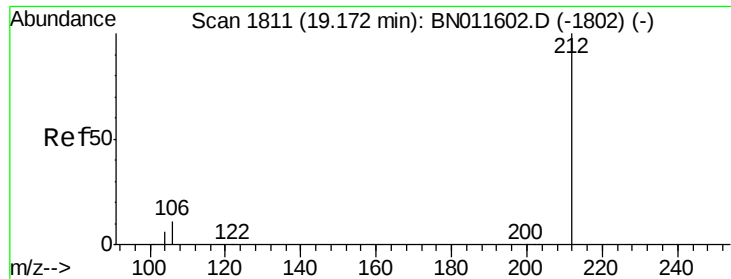


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

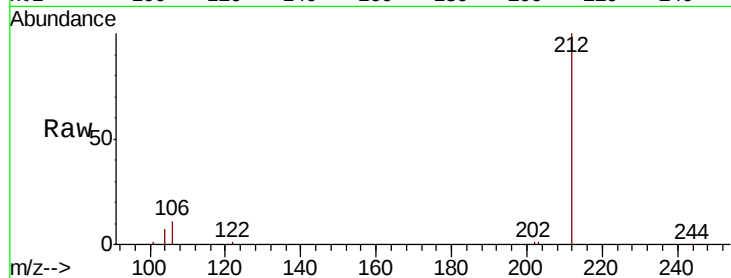




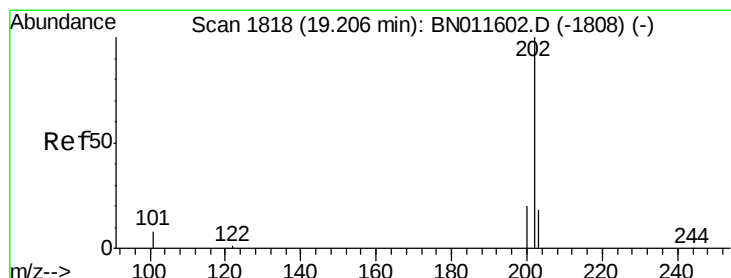
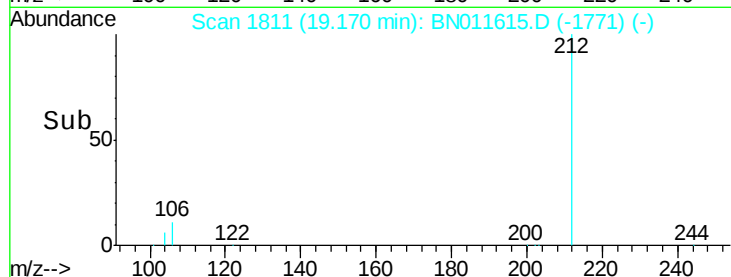
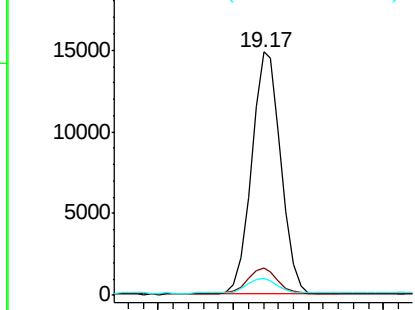
#27  
 Fluoranthene-d10  
 Concen: 0.308 ng  
 RT: 19.17 min Scan# 1811  
 Delta R.T. -0.00 min  
 Lab File: BN011615.D  
 Acq: 25 Aug 2020 14:48

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CS-3MS

Tot Ion:212 Resp: 20017  
 Ion Ratio Lower Upper  
 212 100  
 106 10.6 8.9 13.3  
 104 6.1 5.3 7.9

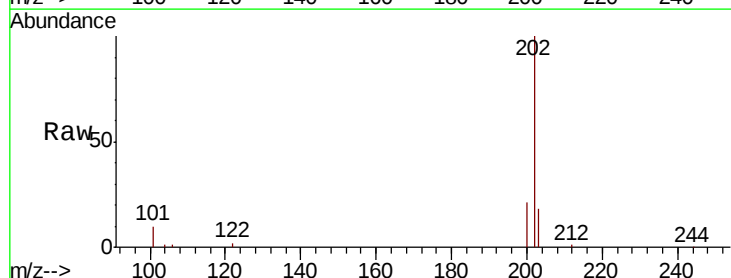


Abundance Ion 212.00 (211.70 to 212.70): E  
 Ion 106.00 (105.70 to 106.70): E  
 Ion 104.00 (103.70 to 104.70): E

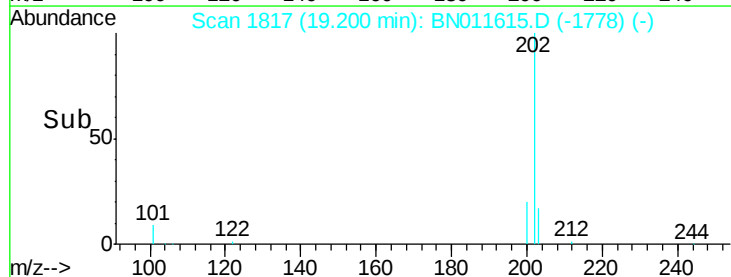
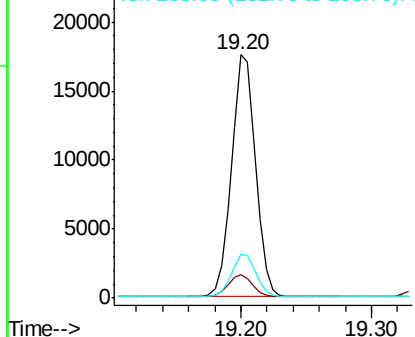


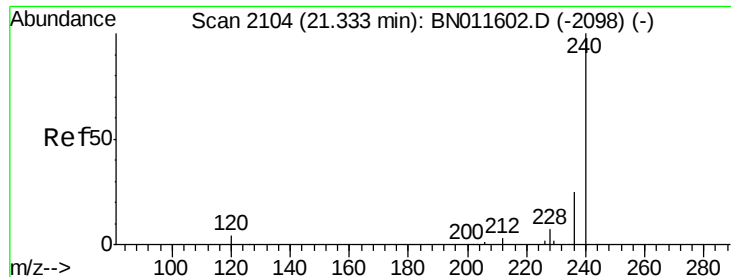
#28  
 Fluoranthene  
 Concen: 0.302 ng  
 RT: 19.20 min Scan# 1817  
 Delta R.T. -0.01 min  
 Lab File: BN011615.D  
 Acq: 25 Aug 2020 14:48

Tgt Ion:202 Resp: 22623  
 Ion Ratio Lower Upper  
 202 100  
 101 9.4 7.7 11.5  
 203 17.4 13.9 20.9



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

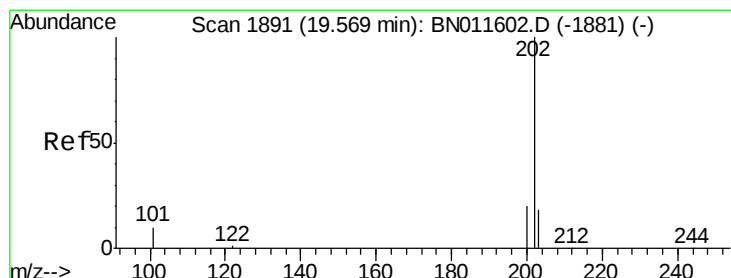
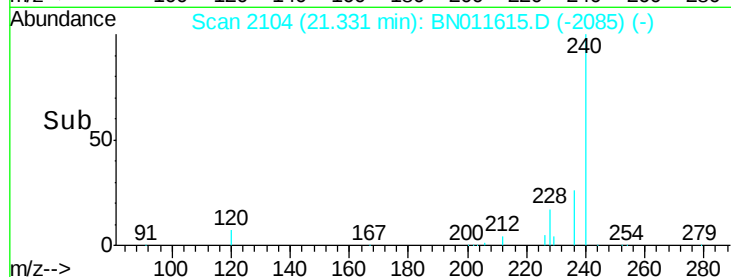
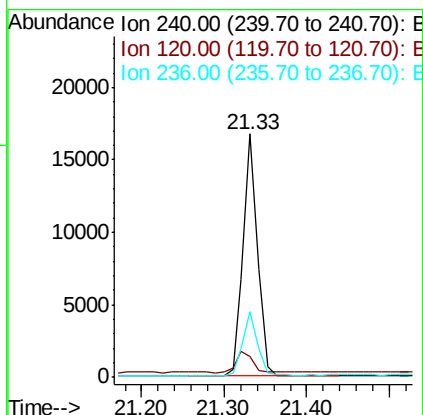
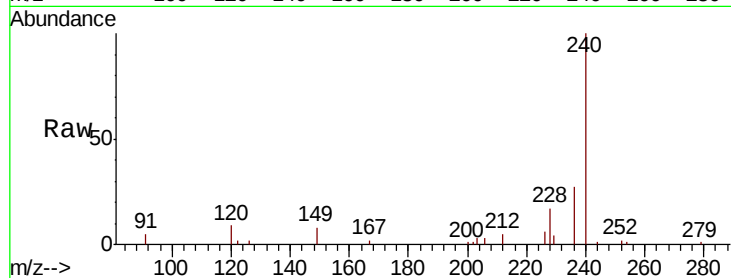




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.33 min Scan# 2104  
Delta R.T. -0.00 min  
Lab File: BN011615.D  
Acq: 25 Aug 2020 14:48

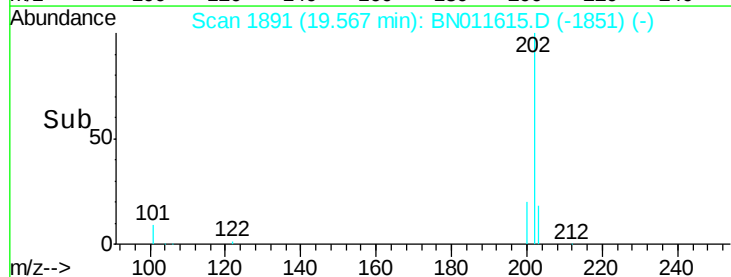
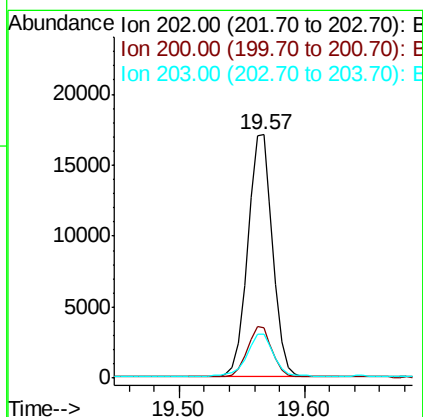
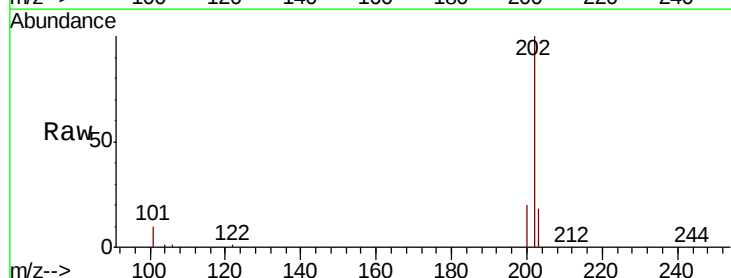
Instrument :  
BNA\_N  
ClientSampleId :  
CS-3MS

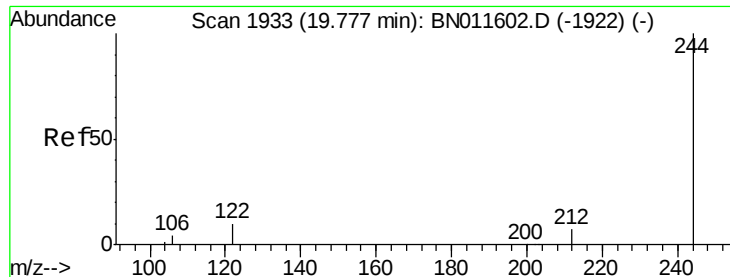
Tot Ion:240 Resp: 20360  
Ion Ratio Lower Upper  
240 100  
120 8.8 6.0 9.0  
236 27.1 20.8 31.2



#30  
Pyrene  
Concen: 0.326 ng  
RT: 19.57 min Scan# 1891  
Delta R.T. -0.00 min  
Lab File: BN011615.D  
Acq: 25 Aug 2020 14:48

Tgt Ion:202 Resp: 23544  
Ion Ratio Lower Upper  
202 100  
200 20.6 16.3 24.5  
203 18.4 14.2 21.4





#31

Terphenyl-d14

Concen: 0.619 ng

RT: 19.78 min Scan# 1933

Delta R.T. -0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

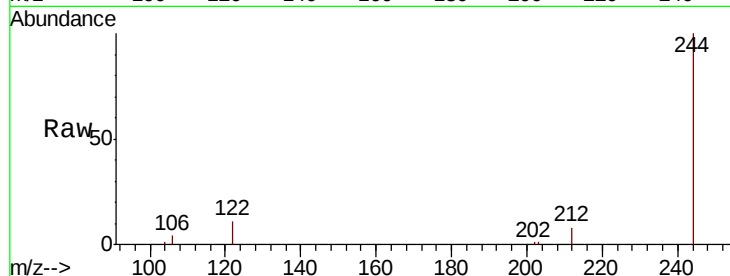
Tot Ion:244 Resp: 32220

Ion Ratio Lower Upper

244 100

212 7.8 6.5 9.7

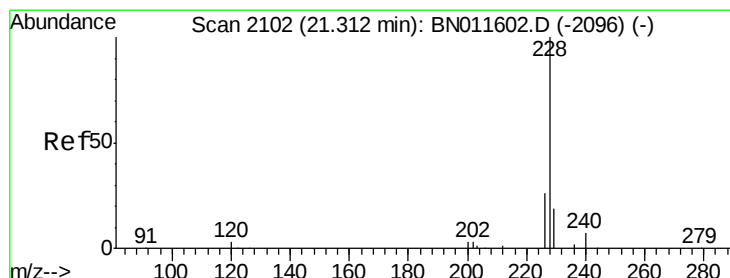
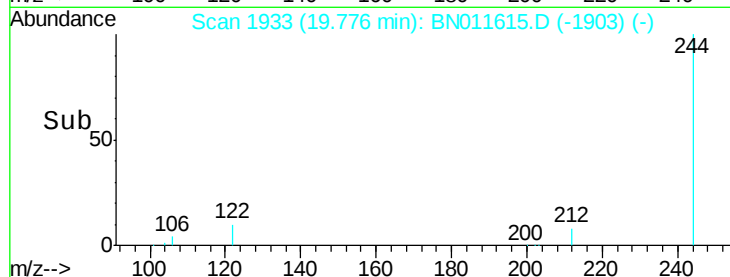
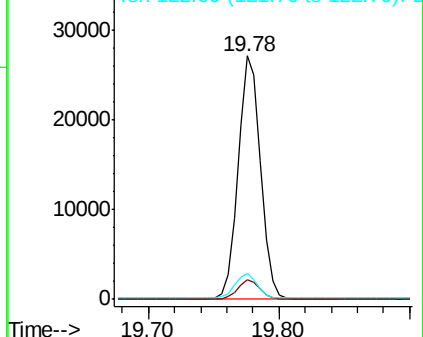
122 10.6 9.5 14.3



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



#32

Benzo(a)anthracene

Concen: 0.332 ng

RT: 21.32 min Scan# 2103

Delta R.T. 0.01 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

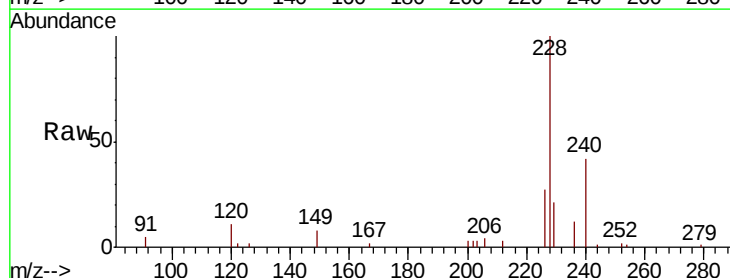
Tgt Ion:228 Resp: 24353

Ion Ratio Lower Upper

228 100

226 26.7 21.2 31.8

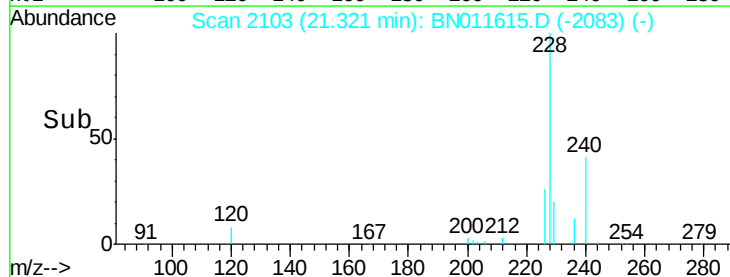
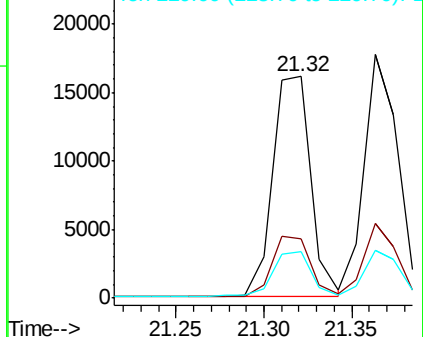
229 21.2 15.8 23.8

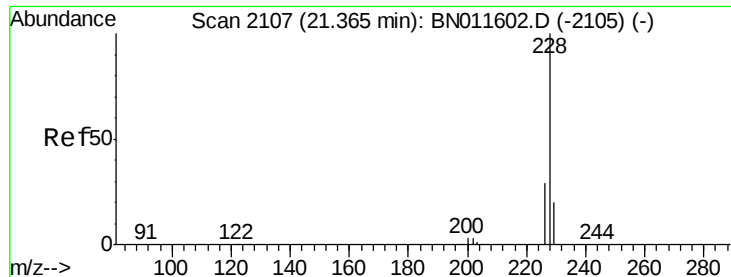


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Chrysene

Concen: 0.335 ng

RT: 21.36 min Scan# 2107

Delta R.T. -0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

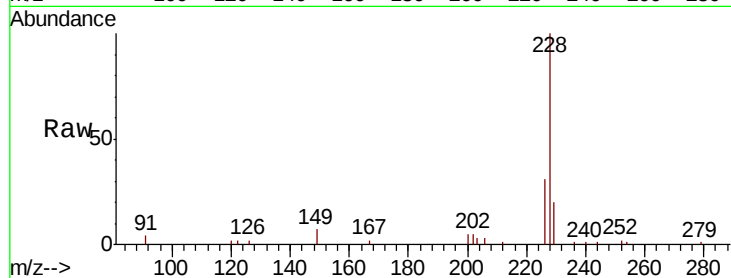
Tot Ion:228 Resp: 23421

Ion Ratio Lower Upper

228 100

226 30.5 23.6 35.4

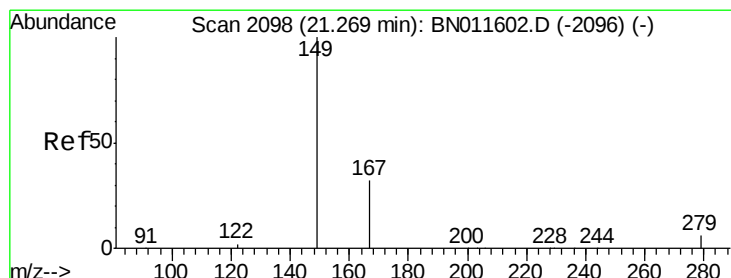
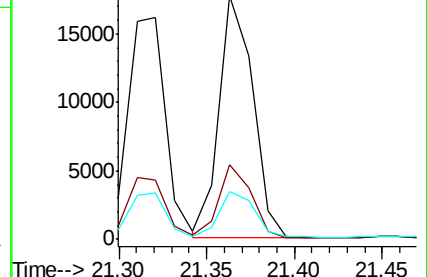
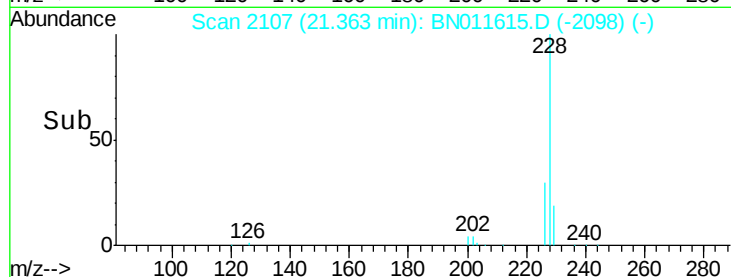
229 19.7 16.0 24.0



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



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.286 ng

RT: 21.27 min Scan# 2098

Delta R.T. -0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

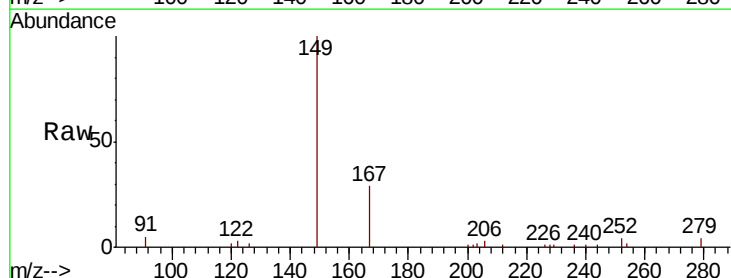
Tgt Ion:149 Resp: 15360

Ion Ratio Lower Upper

149 100

167 28.7 20.6 31.0

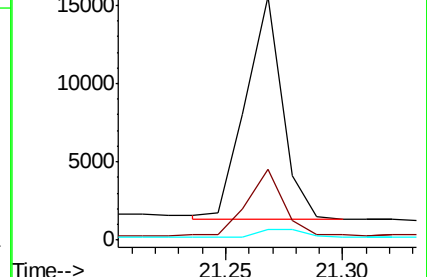
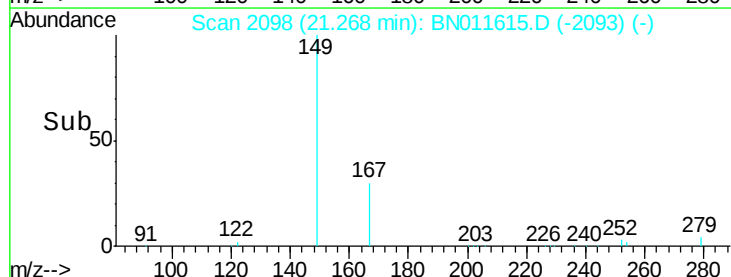
279 5.0 3.8 5.8

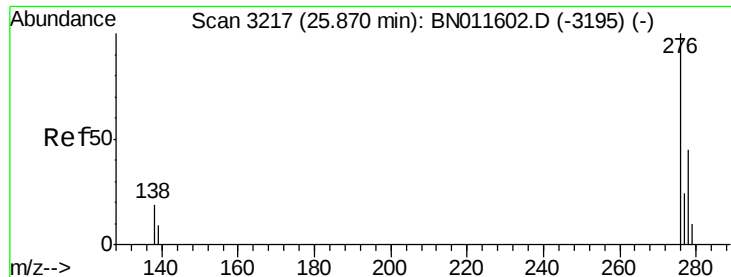


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

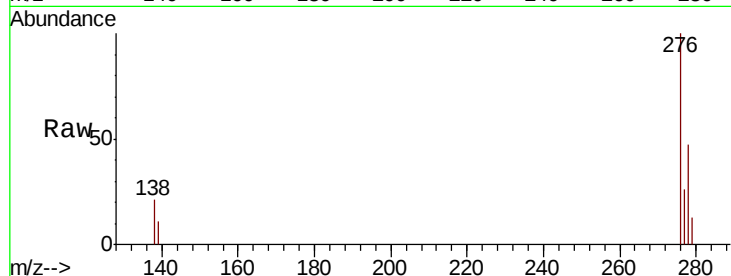




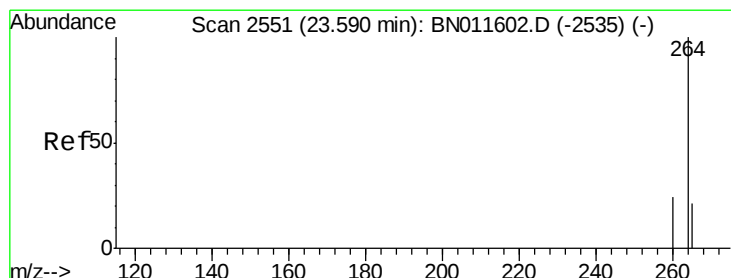
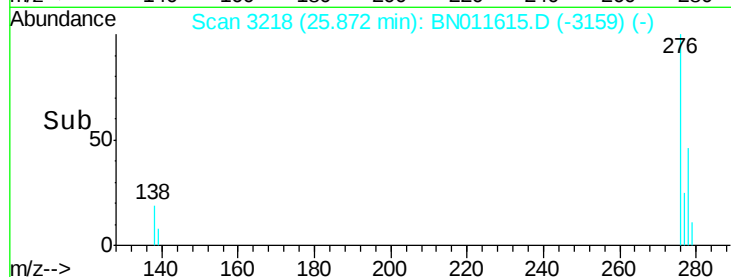
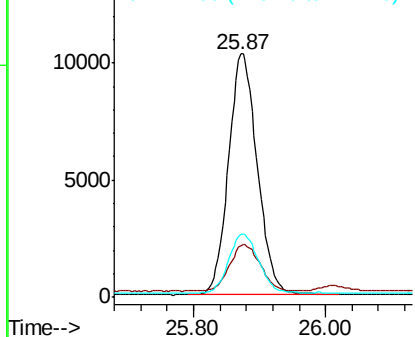
#35  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.367 ng  
 RT: 25.87 min Scan# 3218  
 Delta R.T. 0.00 min  
 Lab File: BN011615.D  
 Acq: 25 Aug 2020 14:48

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CS-3MS

Tot Ion:276 Resp: 31382  
 Ion Ratio Lower Upper  
 276 100  
 138 20.5 0.0 0.0#  
 277 25.2 0.0 0.0#

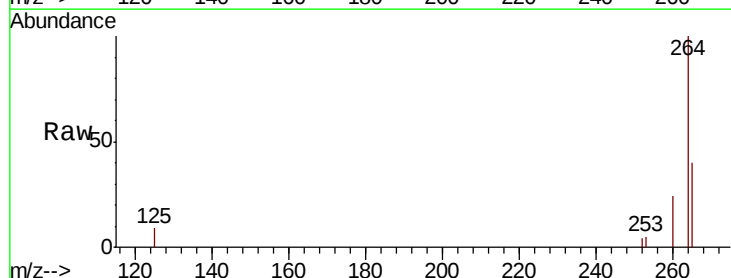


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

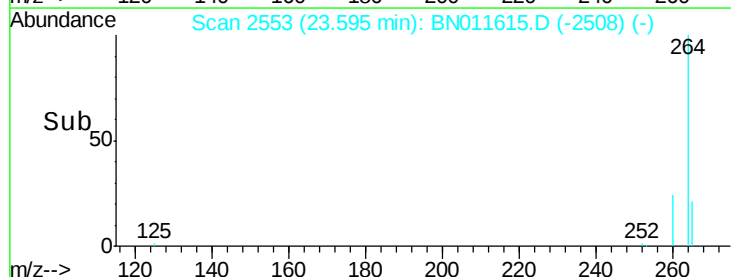
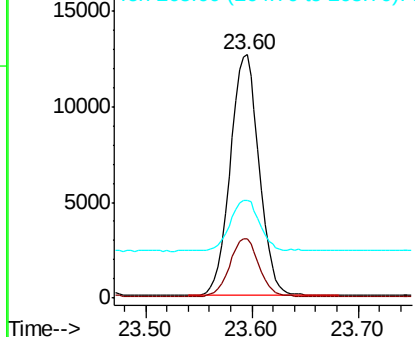


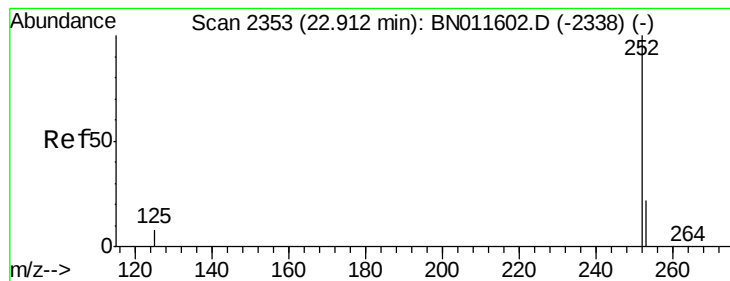
#36  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.60 min Scan# 2553  
 Delta R.T. 0.01 min  
 Lab File: BN011615.D  
 Acq: 25 Aug 2020 14:48

Tgt Ion:264 Resp: 23801  
 Ion Ratio Lower Upper  
 264 100  
 260 24.2 19.6 29.4  
 265 39.9 40.7 61.1#



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





#37

Benzo(b)fluoranthene

Concen: 0.307 ng

RT: 22.91 min Scan# 2354

Delta R.T. 0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

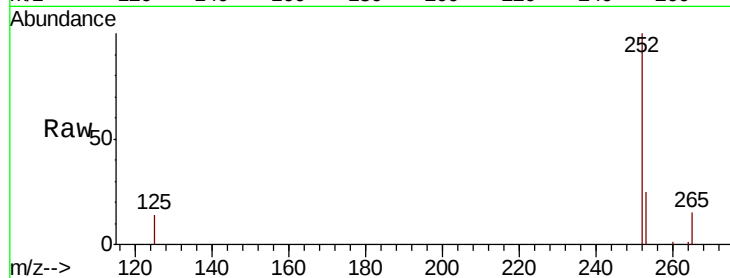
Tot Ion:252 Resp: 26478

Ion Ratio Lower Upper

252 100

253 24.7 21.0 31.6

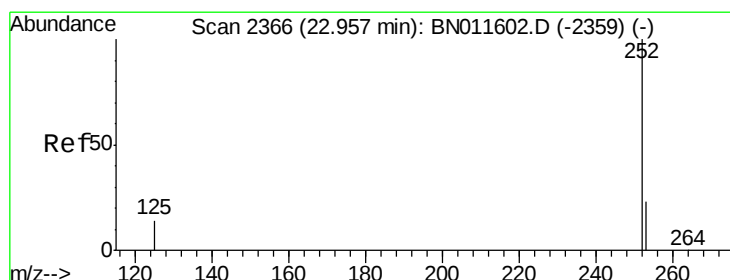
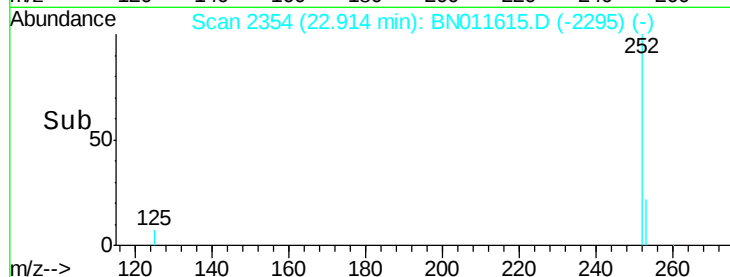
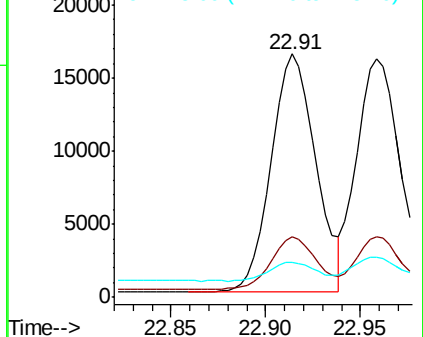
125 14.3 11.0 16.6



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



#38

Benzo(k)fluoranthene

Concen: 0.298 ng

RT: 22.96 min Scan# 2367

Delta R.T. 0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

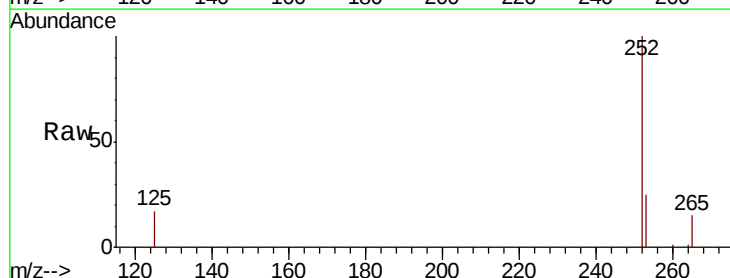
Tgt Ion:252 Resp: 25526

Ion Ratio Lower Upper

252 100

253 25.4 21.2 31.8

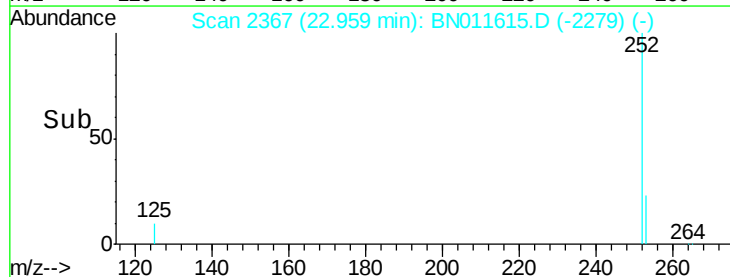
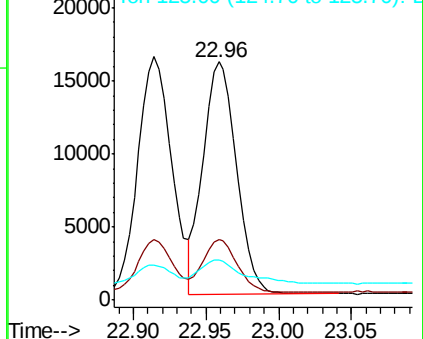
125 16.9 14.6 21.8

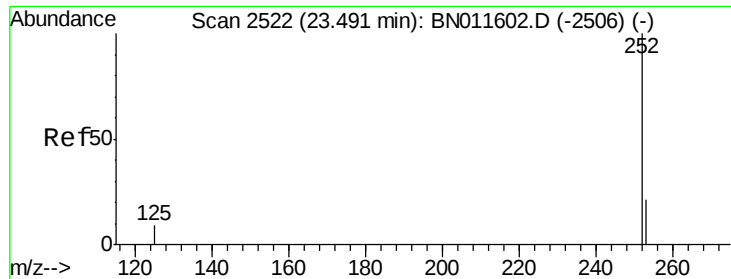


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Benzo(a)pyrene

Concen: 0.293 ng

RT: 23.50 min Scan# 2524

Delta R.T. 0.01 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

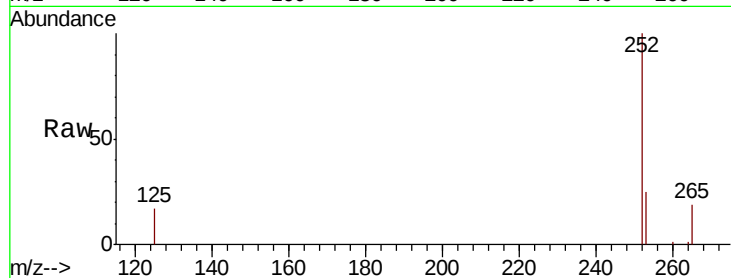
Tot Ion:252 Resp: 23566

Ion Ratio Lower Upper

252 100

253 25.0 21.2 31.8

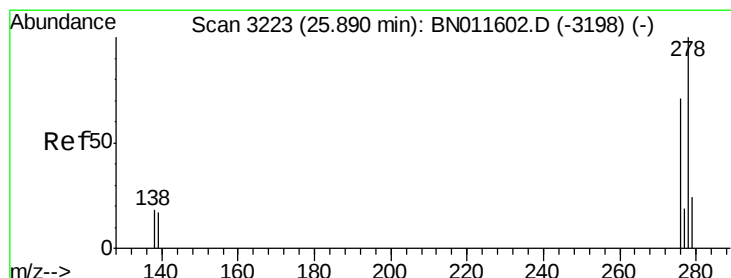
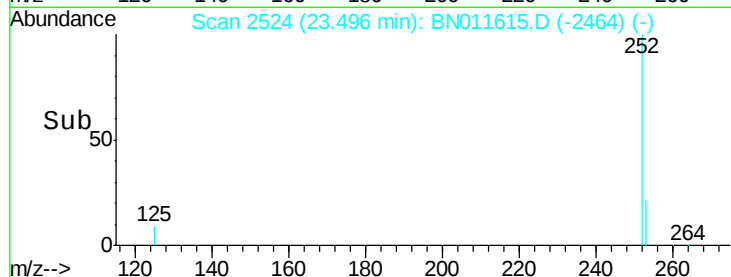
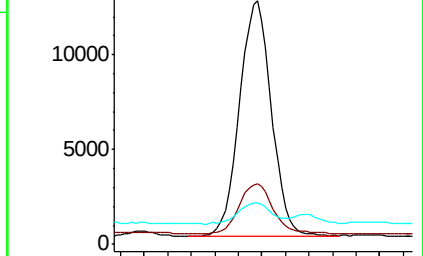
125 17.1 12.1 18.1



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



#40

Dibenzo(a,h)anthracene

Concen: 0.313 ng

RT: 25.89 min Scan# 3224

Delta R.T. 0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

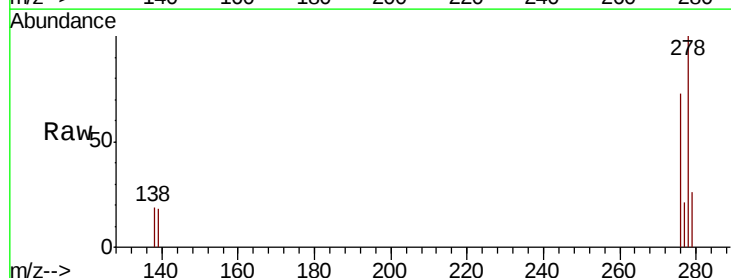
Tgt Ion:278 Resp: 26264

Ion Ratio Lower Upper

278 100

139 17.6 16.6 25.0

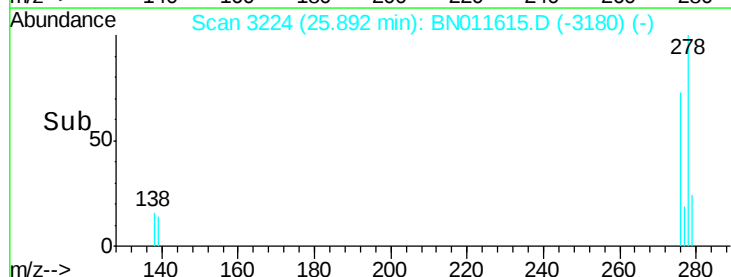
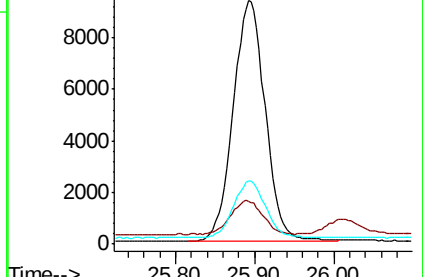
279 26.1 21.4 32.2

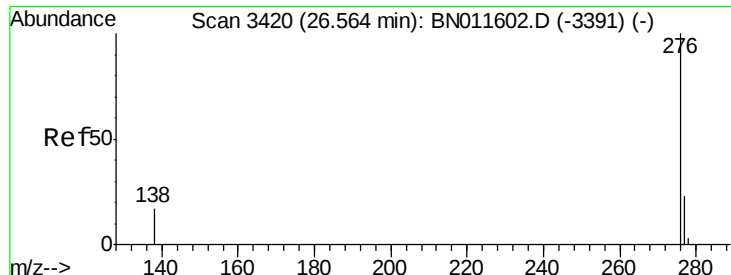


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#41

Benzo(a,h,i)perylene

Concen: 0.330 ng

RT: 26.57 min Scan# 3421

Delta R.T. 0.00 min

Lab File: BN011615.D

Acq: 25 Aug 2020 14:48

Instrument :

BNA\_N

ClientSampleId :

CS-3MS

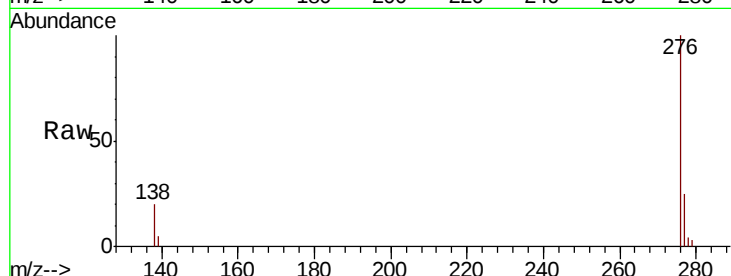
Tot Ion: 276 Resp: 26884

Ion Ratio Lower Upper

276 100

277 25.4 20.5 30.7

138 19.6 17.8 26.6



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

