

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082719\  
 Data File : BN007432.D  
 Acq On : 27 Aug 2019 12:36  
 Operator : HP/JU  
 Sample : PB122534BSD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Aug 28 05:39:31 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Aug 24 00:38:17 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.40  | 152  | 4967     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.15 | 136  | 20099    | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.05 | 164  | 10898    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.80 | 188  | 26734    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.03 | 240  | 30363    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.13 | 264  | 30187    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.03  | 112  | 5750     | 0.33 | ng    | 0.00     |
| 5) Phenol-d6                | 6.59  | 99   | 6948     | 0.31 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.53  | 82   | 6109     | 0.35 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.76 | 152  | 11485    | 0.34 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.55 | 330  | 2268     | 0.40 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.66 | 172  | 15548    | 0.35 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 18.84 | 212  | 30531    | 0.35 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.47 | 244  | 22509    | 0.28 | ng    | 0.00     |

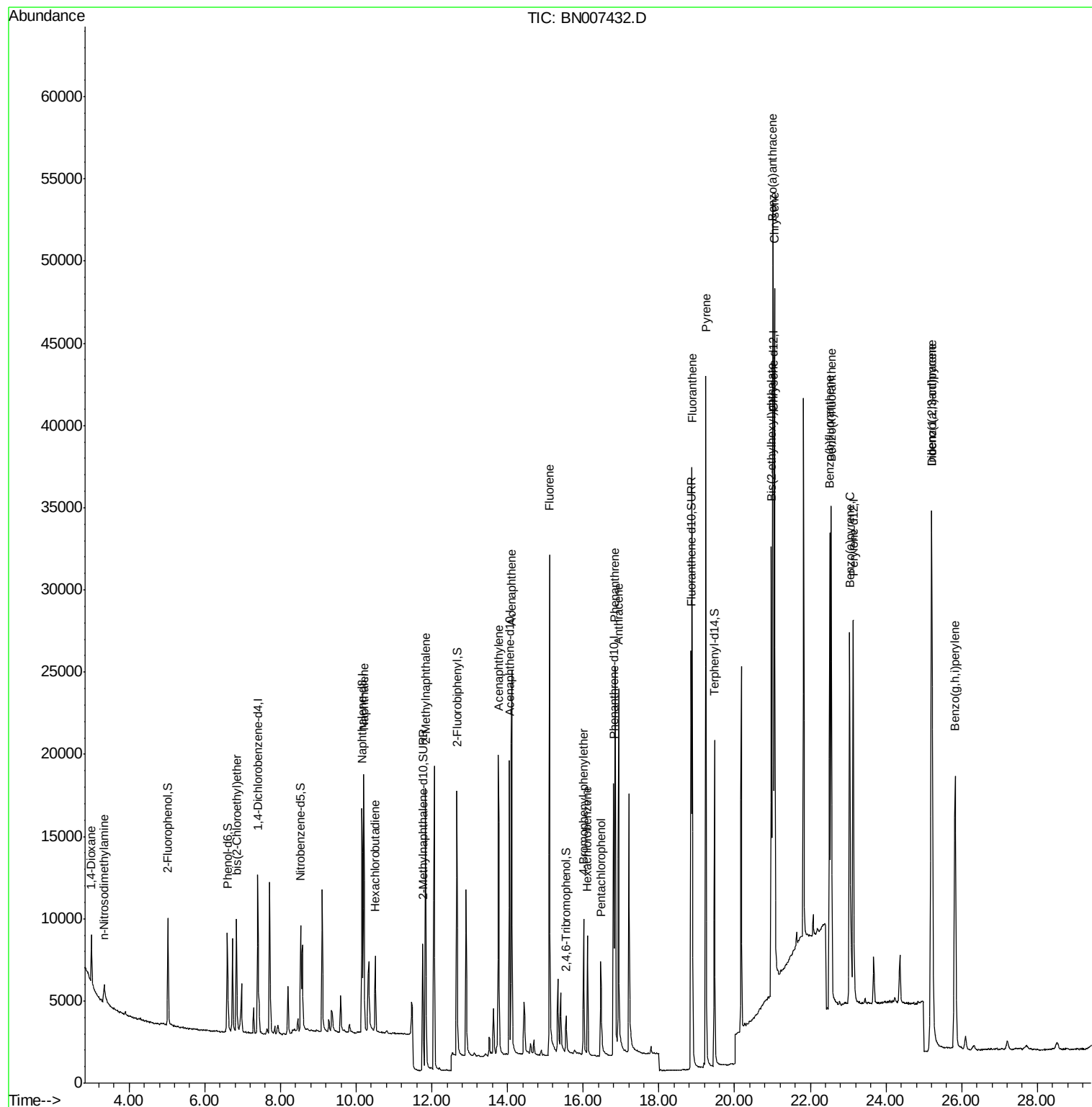
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.01  | 88   | 2684     | 0.325 | ng    | # 81   |
| 3) n-Nitrosodimethylamine      | 3.33  | 42   | 1029     | 0.268 | ng    | # 84   |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93   | 6141     | 0.342 | ng    | 95     |
| 9) Naphthalene                 | 10.20 | 128  | 20338    | 0.354 | ng    | # 91   |
| 10) Hexachlorobutadiene        | 10.51 | 225  | 3871     | 0.329 | ng    | # 99   |
| 12) 2-Methylnaphthalene        | 11.83 | 142  | 13453    | 0.344 | ng    | 96     |
| 16) Acenaphthylene             | 13.76 | 152  | 22394    | 0.347 | ng    | 99     |
| 17) Acenaphthene               | 14.11 | 154  | 13278    | 0.352 | ng    | 97     |
| 18) Fluorene                   | 15.10 | 166  | 16750    | 0.351 | ng    | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.01 | 248  | 3803     | 0.361 | ng    | 94     |
| 21) Hexachlorobenzene          | 16.11 | 284  | 6250     | 0.349 | ng    | 95     |
| 22) Pentachlorophenol          | 16.46 | 266  | 4056     | 0.728 | ng    | # 62   |
| 23) Phenanthrene               | 16.84 | 178  | 27900    | 0.347 | ng    | 99     |
| 24) Anthracene                 | 16.93 | 178  | 25953    | 0.321 | ng    | 99     |
| 26) Fluoranthene               | 18.88 | 202  | 37103    | 0.359 | ng    | 99     |
| 28) Pyrene                     | 19.24 | 202  | 38912    | 0.319 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.00 | 228  | 36434    | 0.306 | ng    | 99     |
| 31) Chrysene                   | 21.06 | 228  | 36360    | 0.316 | ng    | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 20.97 | 149  | 23792    | 0.289 | ng    | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 25.20 | 276  | 42320    | 0.305 | ng    | 97     |
| 35) Benzo(b)fluoranthene       | 22.51 | 252  | 36920    | 0.338 | ng    | 99     |
| 36) Benzo(k)fluoranthene       | 22.55 | 252  | 37100    | 0.343 | ng    | 96     |
| 37) Benzo(a)pyrene             | 23.04 | 252  | 34905    | 0.335 | ng    | 99     |
| 38) Dibenzo(a,h)anthracene     | 25.21 | 278  | 34019    | 0.328 | ng    | 97     |
| 39) Benzo(g,h,i)perylene       | 25.83 | 276  | 34596    | 0.334 | ng    | 98     |

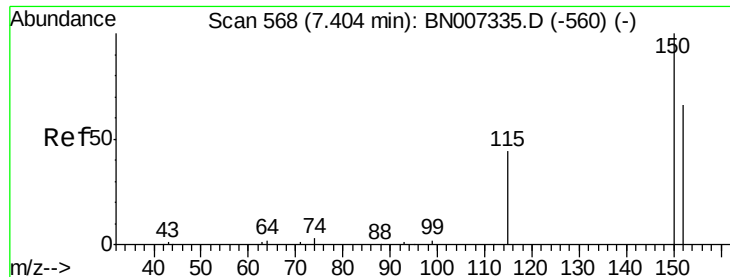
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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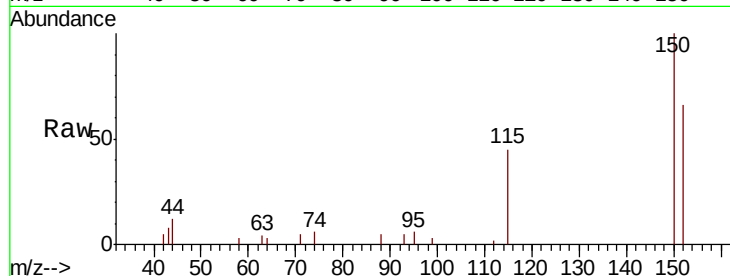


#1

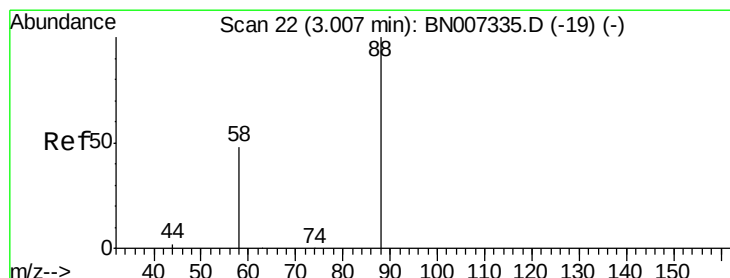
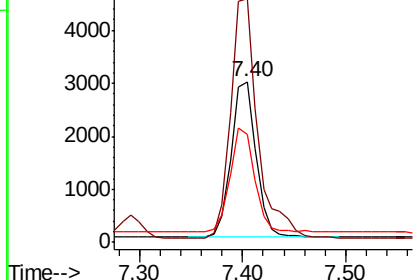
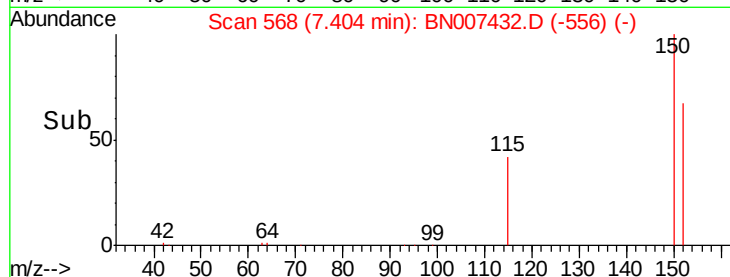
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.40 min Scan# 568  
Delta R.T. -0.00 min  
Lab File: BN007432.D  
Acq: 27 Aug 2019 12:36

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:152 Resp: 4967  
Ion Ratio Lower Upper  
152 100  
150 151.3 109.1 163.7  
115 67.5 59.6 89.4



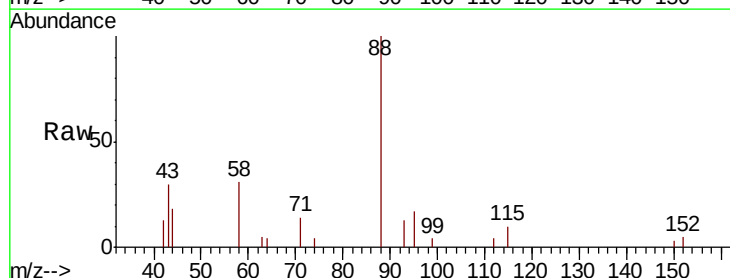
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



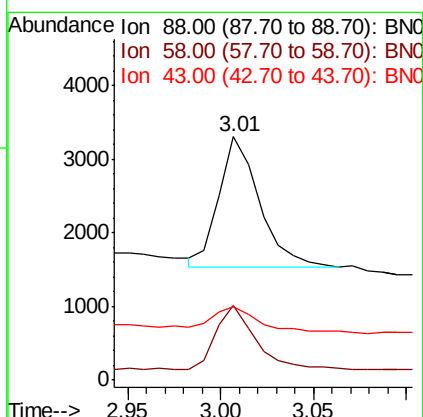
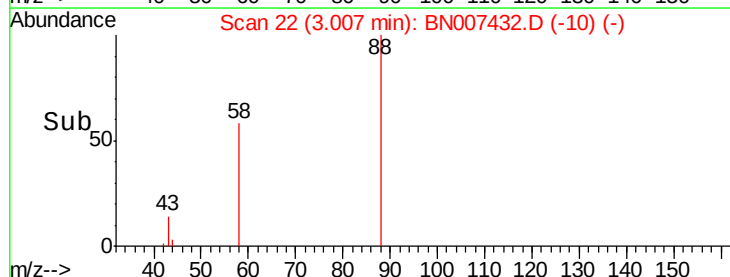
#2

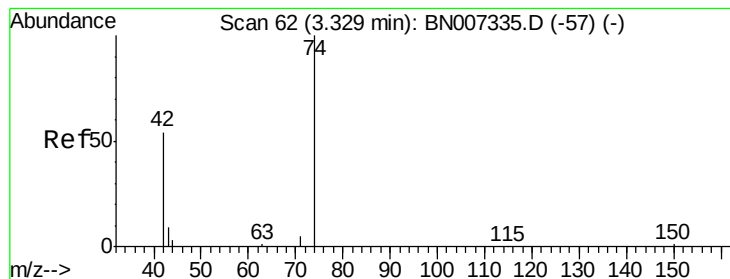
1,4-Dioxane  
Concen: 0.325 ng  
RT: 3.01 min Scan# 22  
Delta R.T. -0.00 min  
Lab File: BN007432.D  
Acq: 27 Aug 2019 12:36

Tgt Ion: 88 Resp: 2684  
Ion Ratio Lower Upper  
88 100  
58 48.2 50.5 75.7#  
43 22.8 0.0 0.0#



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



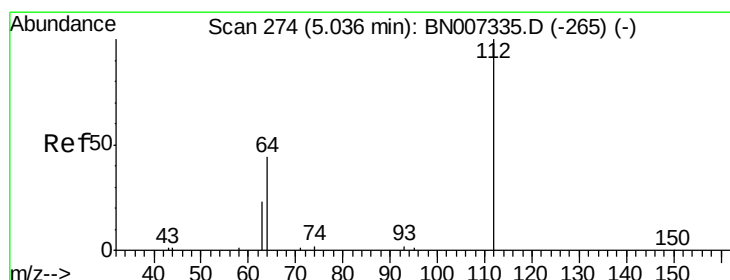
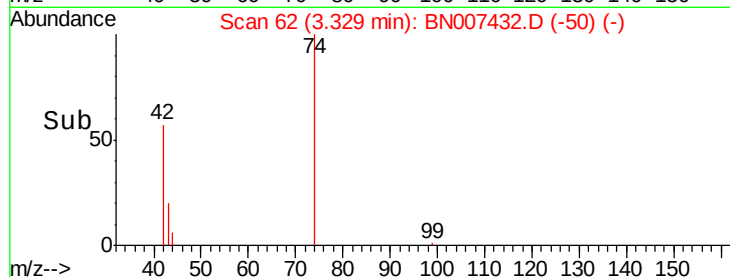
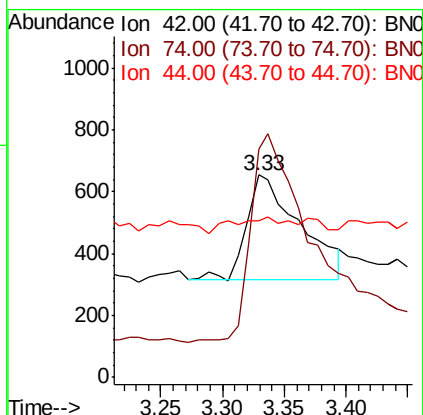
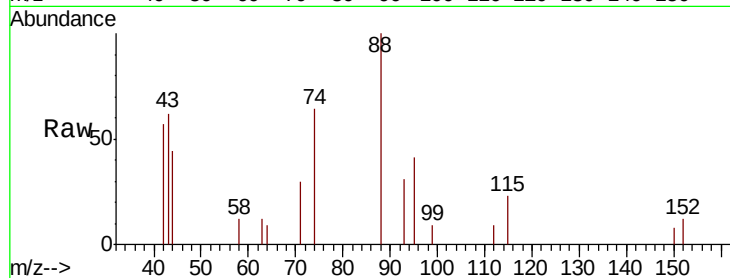


#3

n-Nitrosodimethylamine  
 Concen: 0.268 ng  
 RT: 3.33 min Scan# 62  
 Delta R.T. -0.00 min  
 Lab File: BN007432.D  
 Acq: 27 Aug 2019 12:36

Instrument :  
 BNA\_N  
 ClientSampleId :

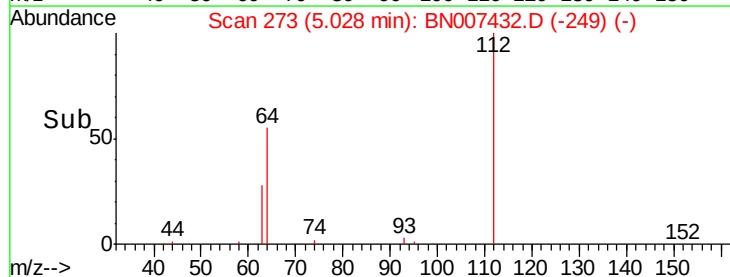
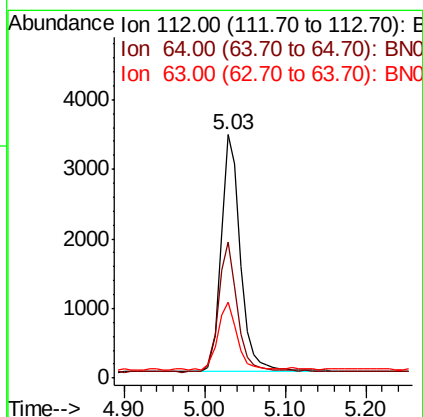
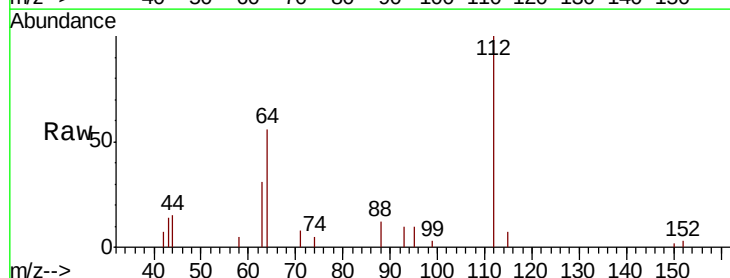
Tot Ion: 42 Resp: 1029  
 Ion Ratio Lower Upper  
 42 100  
 74 204.8 144.7 217.1  
 44 4.9 3.2 4.8#

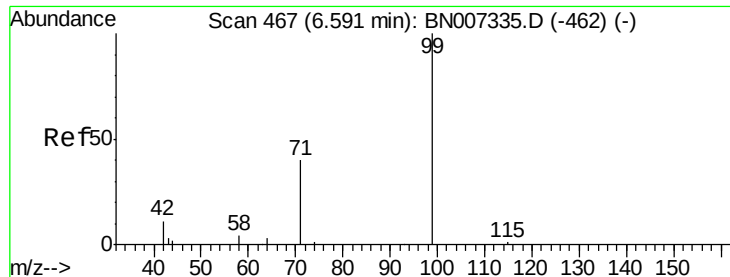


#4

2-Fluorophenol  
 Concen: 0.328 ng  
 RT: 5.03 min Scan# 273  
 Delta R.T. -0.01 min  
 Lab File: BN007432.D  
 Acq: 27 Aug 2019 12:36

Tgt Ion: 112 Resp: 5750  
 Ion Ratio Lower Upper  
 112 100  
 64 54.1 42.3 63.5  
 63 27.4 23.6 35.4





#5

Phenol-d6

Concen: 0.310 ng

RT: 6.59 min Scan# 467

Delta R.T. 0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Instrument :

BNA\_N

ClientSampled :

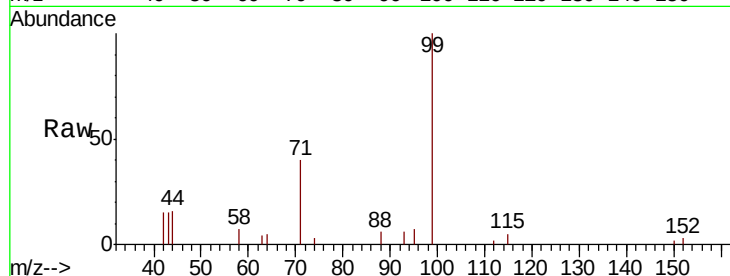
Tot Ion: 99 Resp: 6948

Ion Ratio Lower Upper

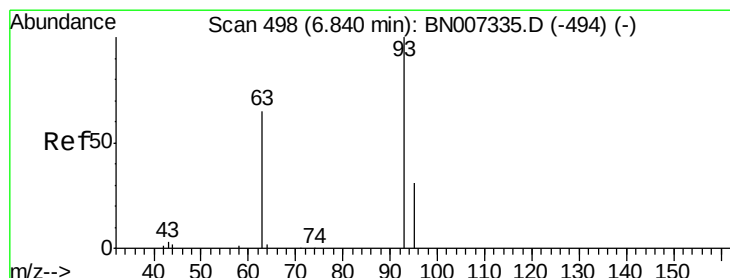
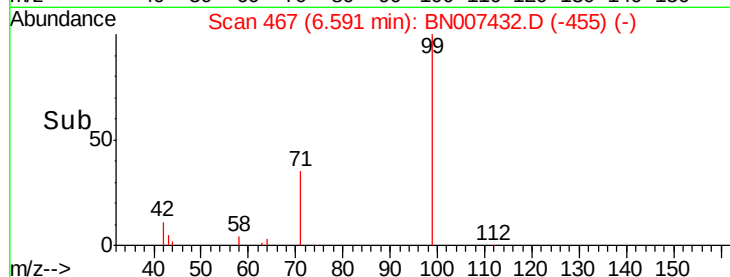
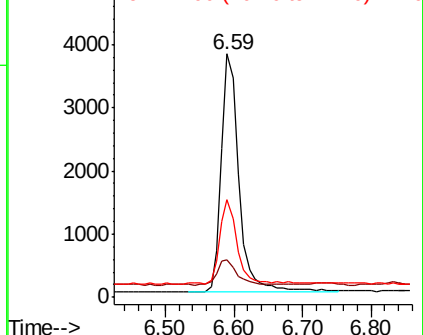
99 100

42 11.7 11.2 16.8

71 34.1 31.8 47.8



Abundance Ion 99.00 (98.70 to 99.70): BN0  
Ion 42.00 (41.70 to 42.70): BN0  
Ion 71.00 (70.70 to 71.70): BN0



#6

bis(2-Chloroethyl)ether

Concen: 0.342 ng

RT: 6.84 min Scan# 498

Delta R.T. -0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

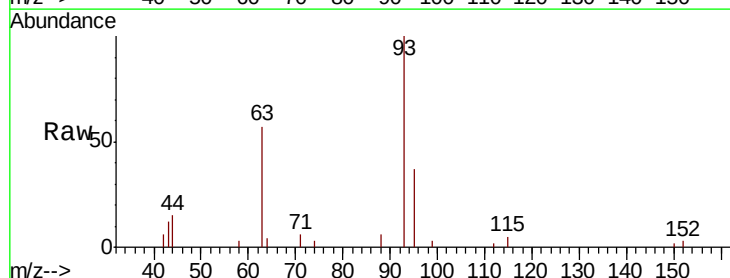
Tgt Ion: 93 Resp: 6141

Ion Ratio Lower Upper

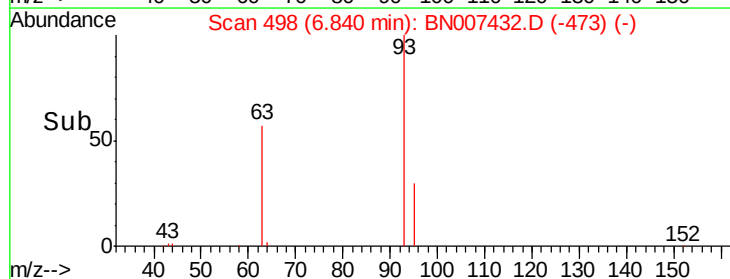
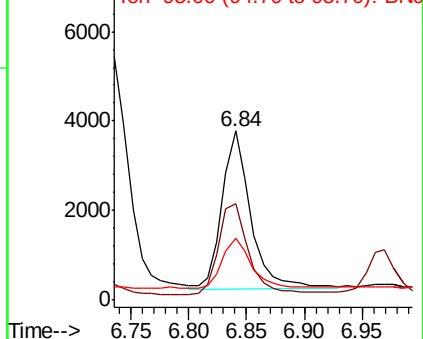
93 100

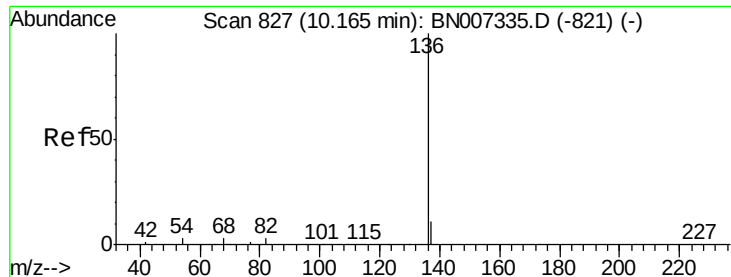
63 61.1 51.9 77.9

95 31.3 27.7 41.5



Abundance Ion 93.00 (92.70 to 93.70): BN0  
Ion 63.00 (62.70 to 63.70): BN0  
Ion 95.00 (94.70 to 95.70): BN0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 826

Delta R.T. -0.01 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Instrument :

BNA\_N

ClientSampleId :

Tot Ion:136 Resp: 20099

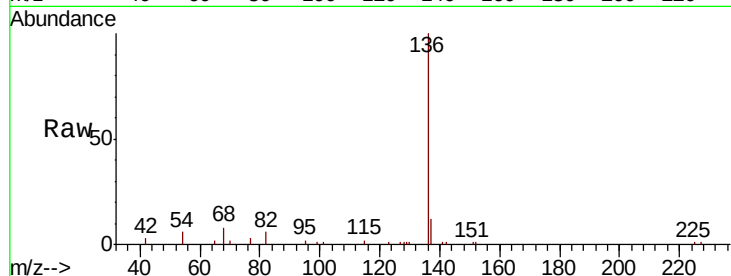
Ion Ratio Lower Upper

136 100

137 11.5 12.9 19.3#

54 6.0 8.6 12.8#

68 7.7 17.0 25.4#

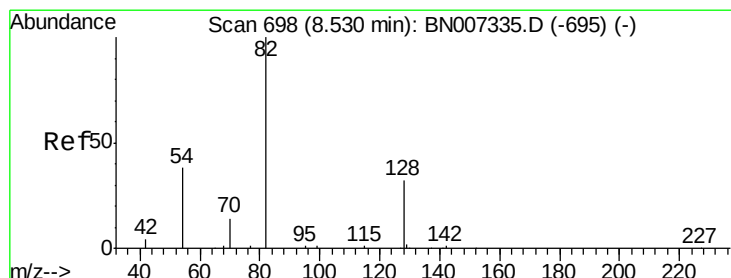
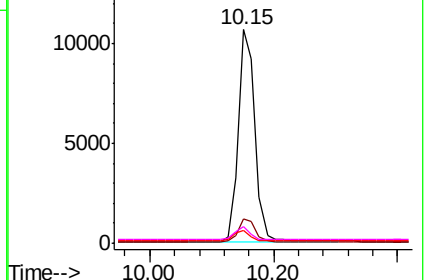
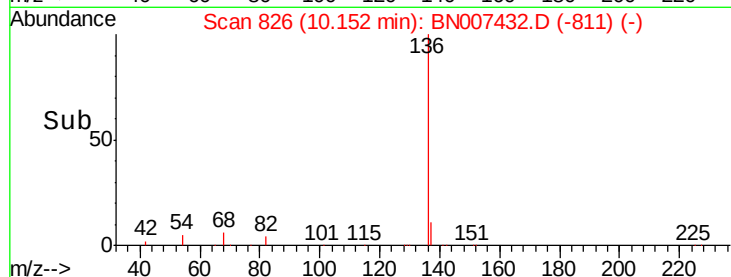


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.349 ng

RT: 8.53 min Scan# 698

Delta R.T. -0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

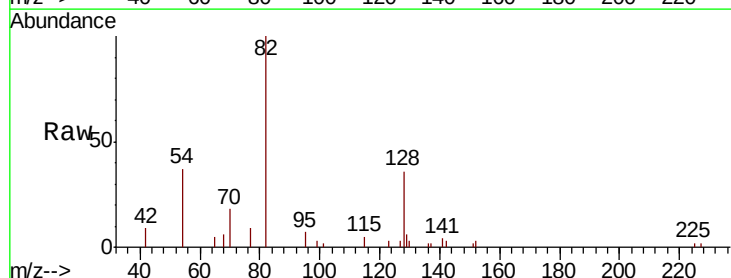
Tgt Ion: 82 Resp: 6109

Ion Ratio Lower Upper

82 100

128 36.1 19.7 29.5#

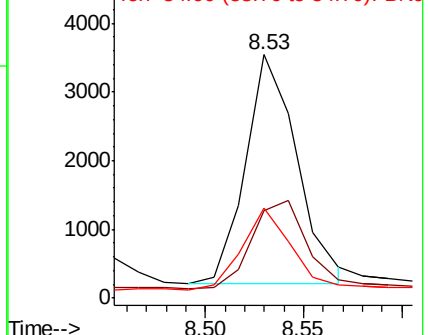
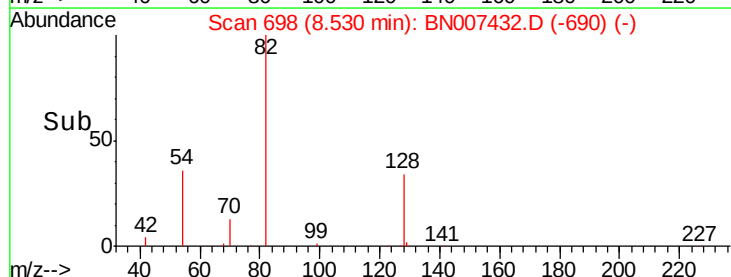
54 37.0 25.8 38.6

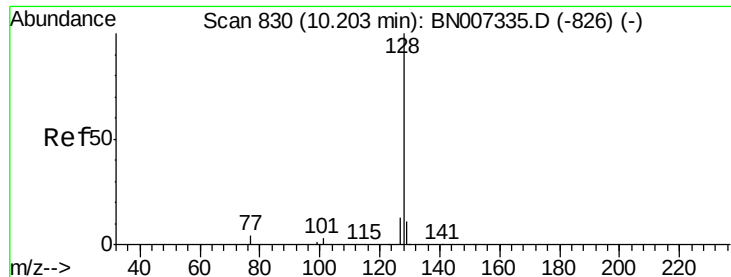


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.354 ng

RT: 10.20 min Scan# 830

Delta R.T. -0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Instrument :

BNA\_N

ClientSampleId :

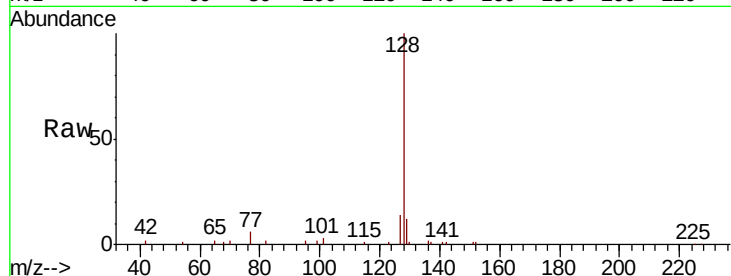
Tot Ion:128 Resp: 20338

Ion Ratio Lower Upper

128 100

129 12.1 11.1 16.7

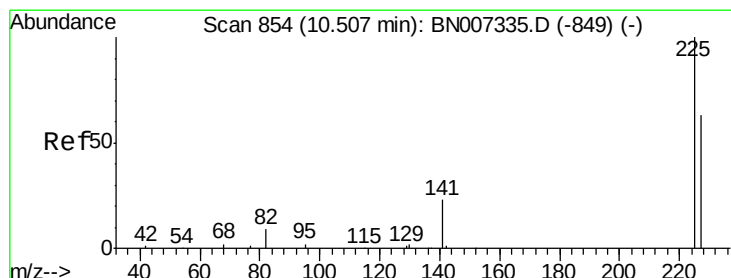
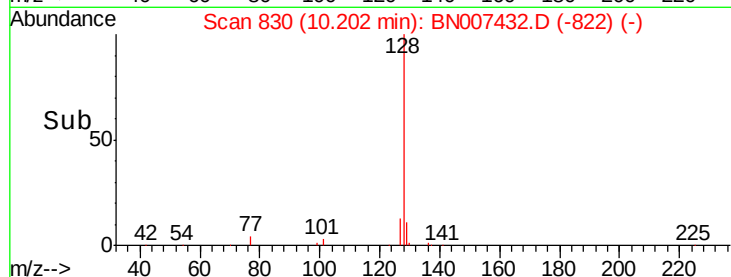
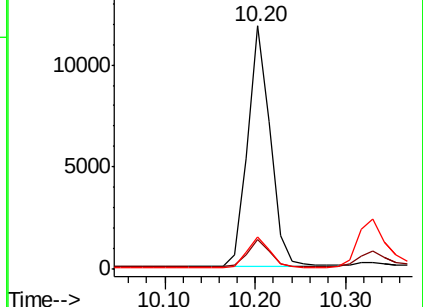
127 13.5 15.5 23.3#



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: 0.329 ng

RT: 10.51 min Scan# 854

Delta R.T. -0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

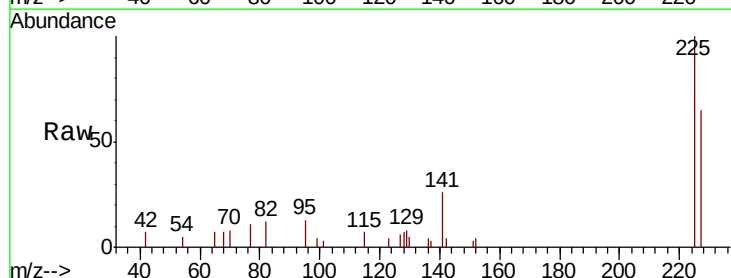
Tgt Ion:225 Resp: 3871

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

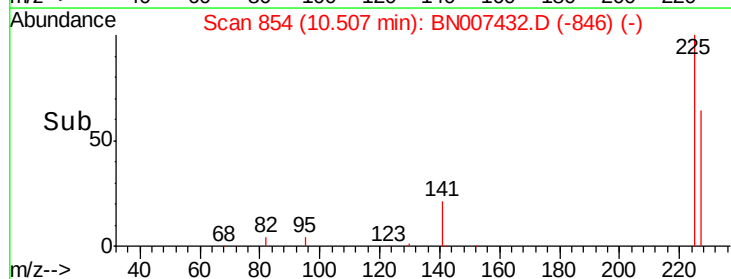
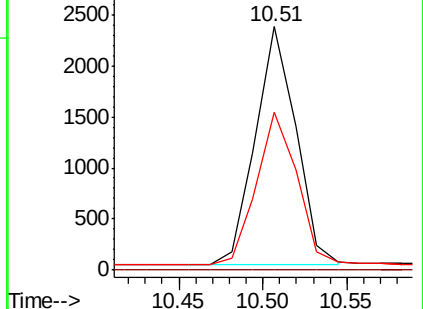
227 64.0 50.7 76.1

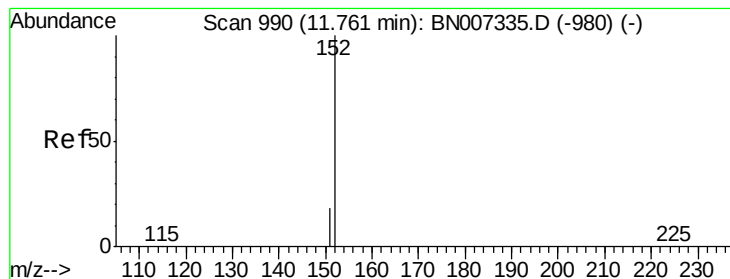


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.344 ng

RT: 11.76 min Scan# 989

Delta R.T. -0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Instrument :

BNA\_N

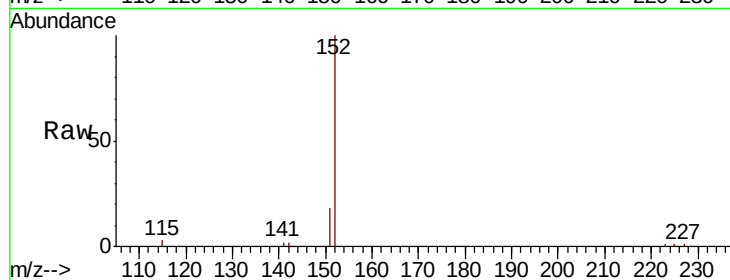
ClientSampleId :

Tot Ion:152 Resp: 11485

Ion Ratio Lower Upper

152 100

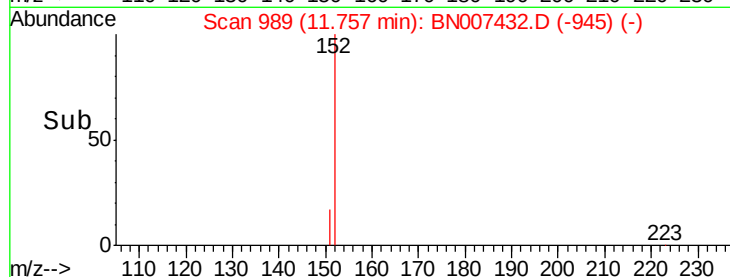
151 19.0 16.2 24.2



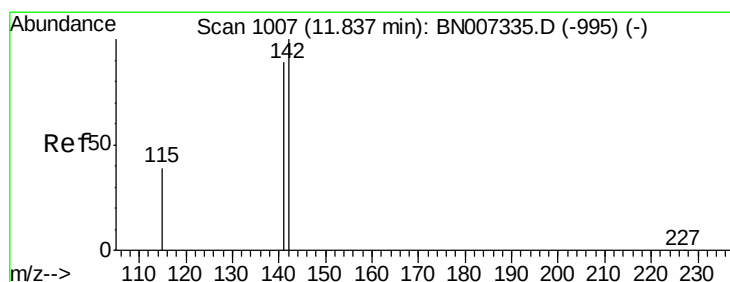
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.76



Time-->



#12

2-Methylnaphthalene

Concen: 0.344 ng

RT: 11.83 min Scan# 1006

Delta R.T. -0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

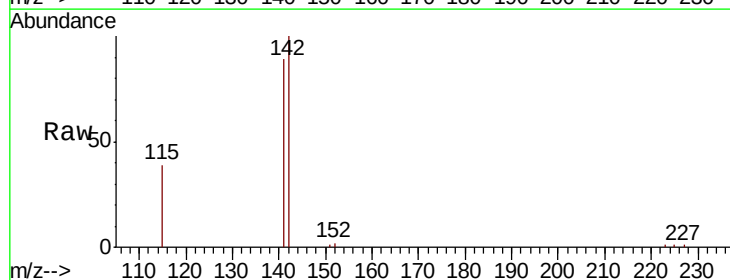
Tgt Ion:142 Resp: 13453

Ion Ratio Lower Upper

142 100

141 89.1 72.8 109.2

115 38.6 35.2 52.8

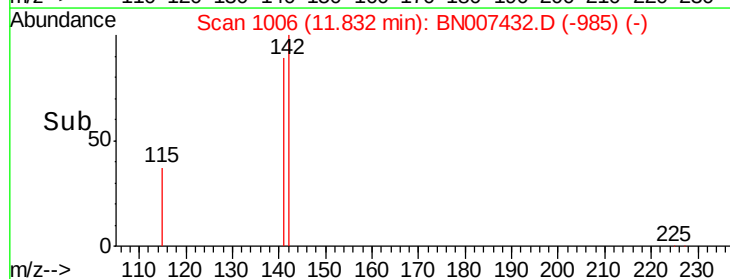


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

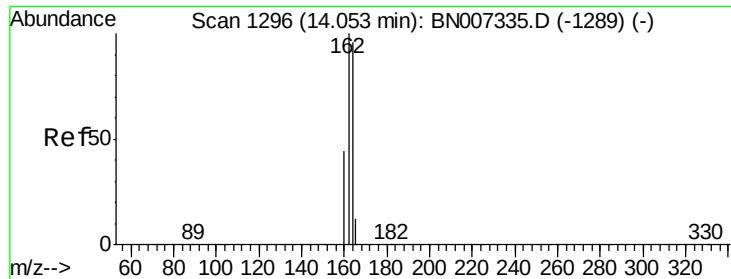
Ion 115.00 (114.70 to 115.70): E

11.83



Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.05 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Instrument :

BNA\_N

ClientSampleId :

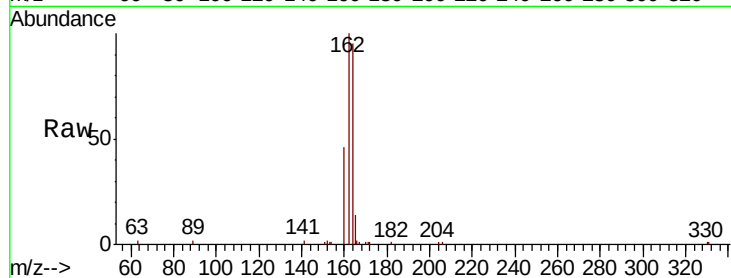
Tot Ion:164 Resp: 10898

Ion Ratio Lower Upper

164 100

162 105.0 83.5 125.3

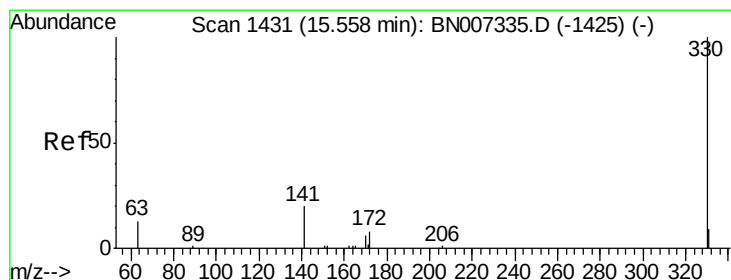
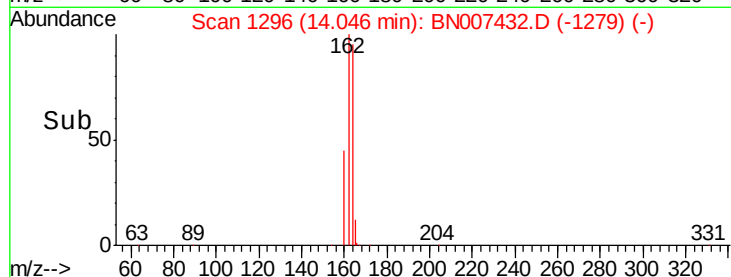
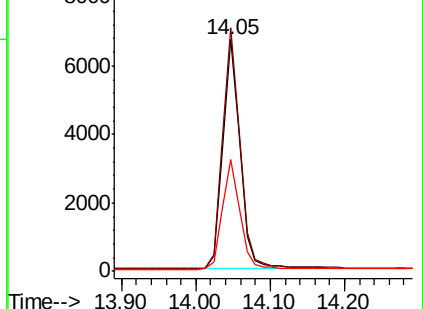
160 48.0 38.2 57.4



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: 0.398 ng

RT: 15.55 min Scan# 1431

Delta R.T. -0.01 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

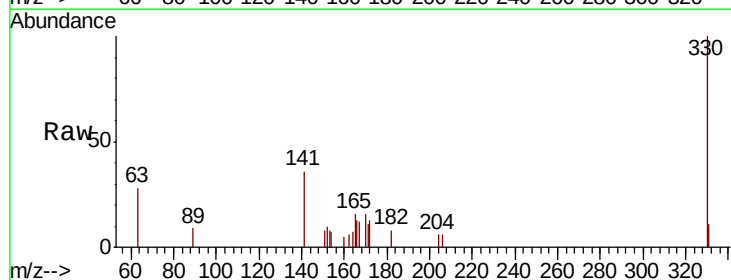
Tgt Ion:330 Resp: 2268

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

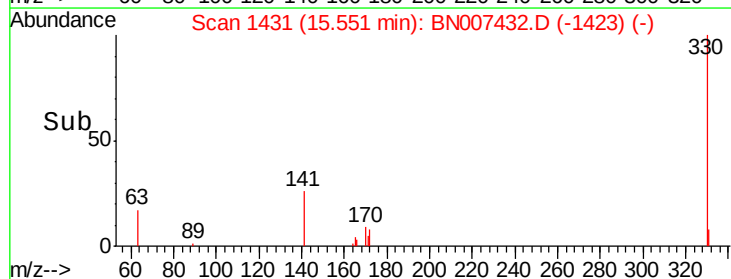
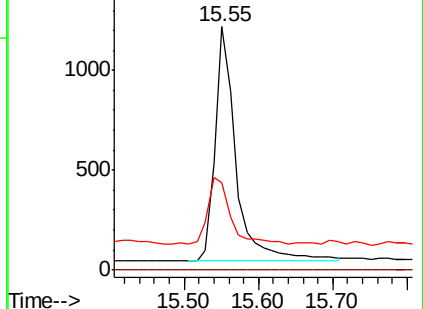
141 32.5 26.9 40.3

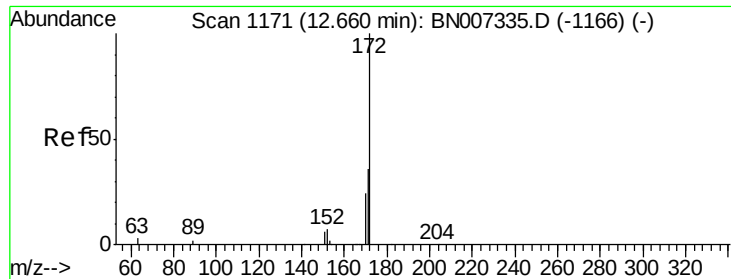


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

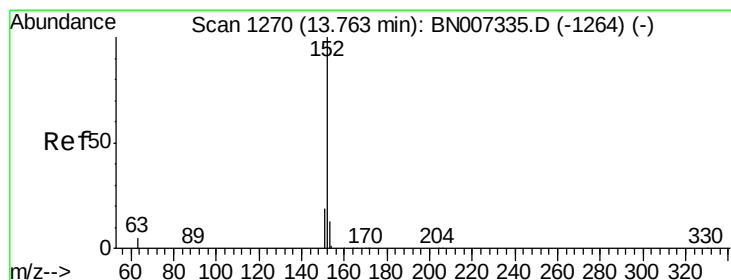
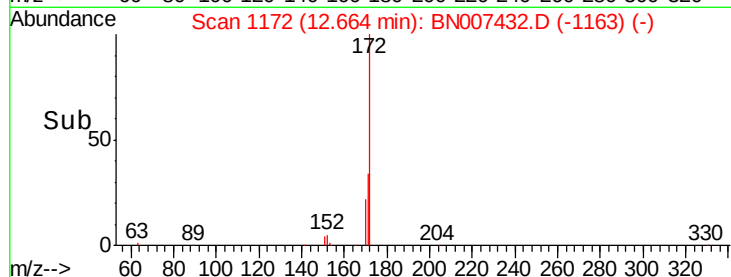
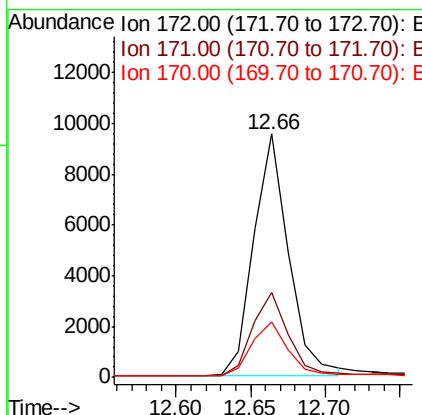
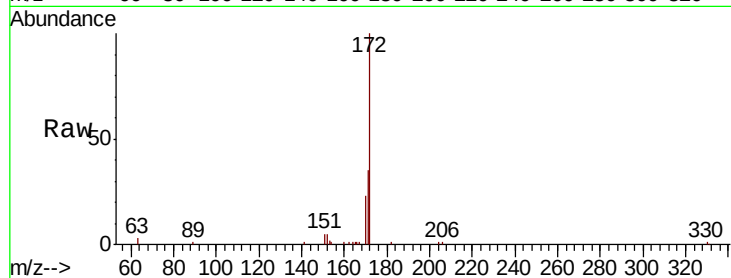




#15  
2-Fluorobiphenyl  
Concen: 0.354 ng  
RT: 12.66 min Scan# 1172  
Delta R.T. 0.00 min  
Lab File: BN007432.D  
Acq: 27 Aug 2019 12:36

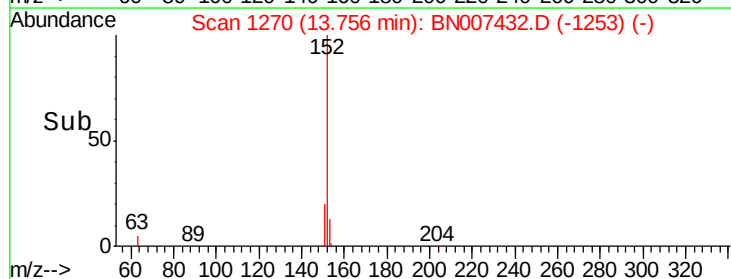
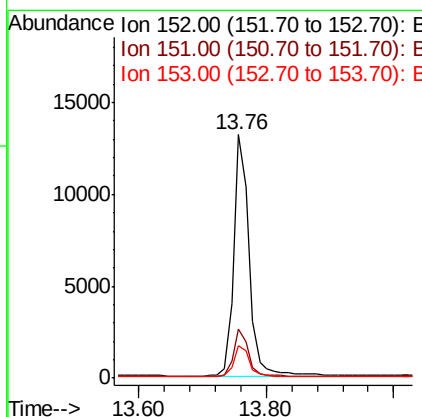
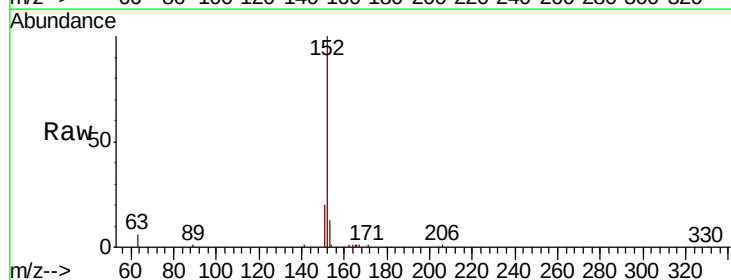
Instrument :  
BNA\_N  
ClientSampleId :

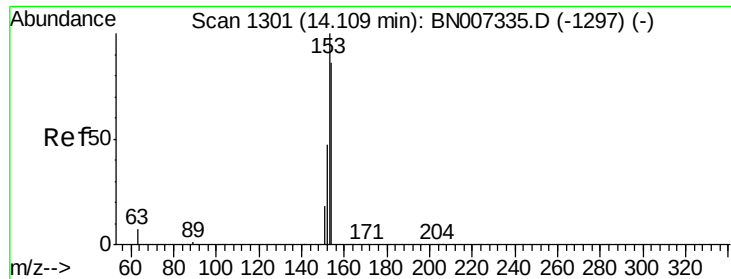
Tot Ion:172 Resp: 15548  
Ion Ratio Lower Upper  
172 100  
171 35.0 30.3 45.5  
170 23.0 20.7 31.1



#16  
Acenaphthylene  
Concen: 0.347 ng  
RT: 13.76 min Scan# 1270  
Delta R.T. -0.01 min  
Lab File: BN007432.D  
Acq: 27 Aug 2019 12:36

Tgt Ion:152 Resp: 22394  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.1 24.1  
153 12.8 10.6 15.8





#17

Acenaphthene

Concen: 0.352 ng

RT: 14.11 min Scan# 1302

Delta R.T. 0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Instrument :

BNA\_N

ClientSampleId :

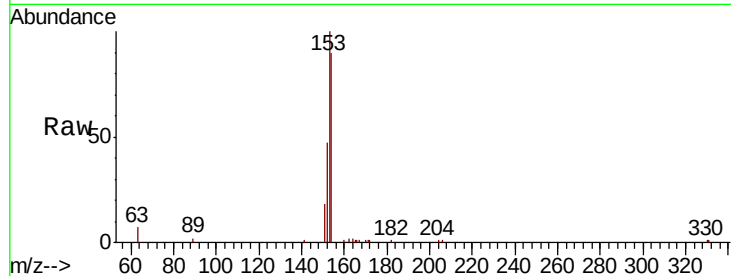
Tot Ion:154 Resp: 13278

Ion Ratio Lower Upper

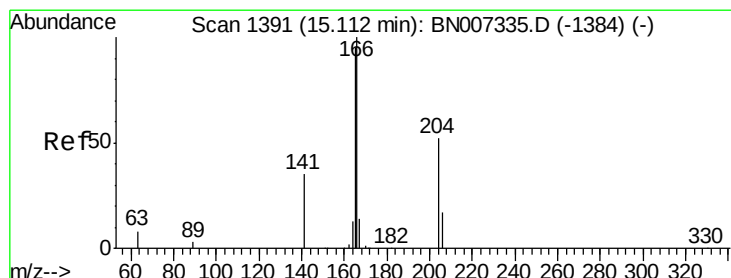
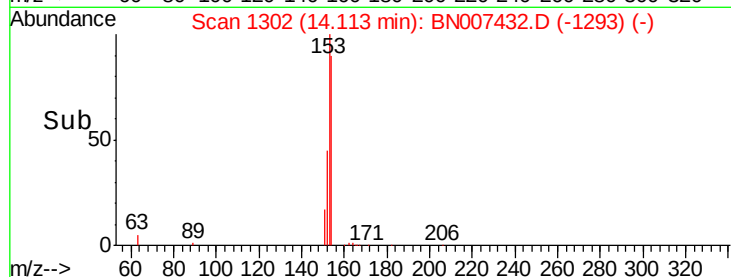
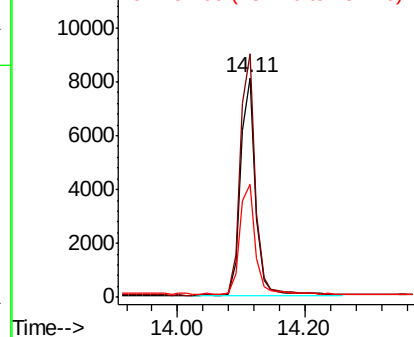
154 100

153 112.4 92.8 139.2

152 52.4 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.351 ng

RT: 15.10 min Scan# 1391

Delta R.T. -0.01 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

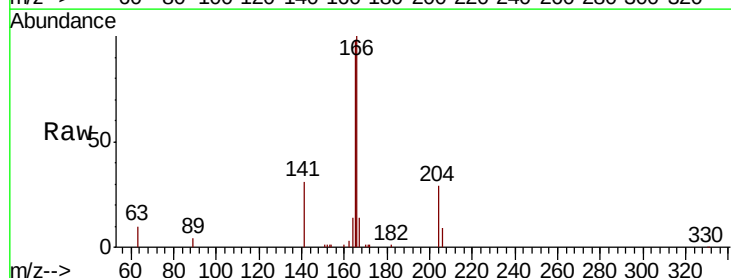
Tgt Ion:166 Resp: 16750

Ion Ratio Lower Upper

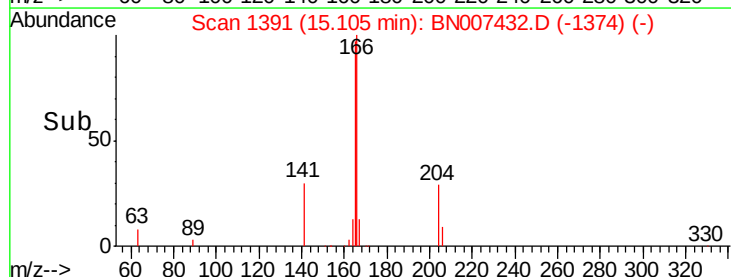
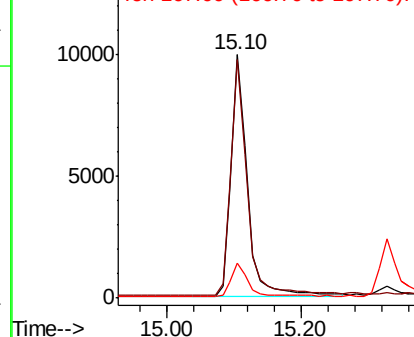
166 100

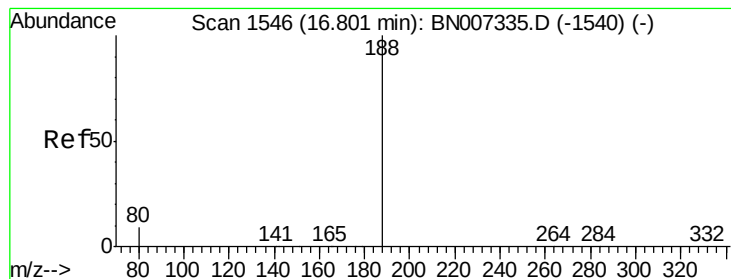
165 96.9 79.0 118.4

167 13.5 10.6 15.8



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.80 min Scan# 1547

Delta R.T. 0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Instrument :

BNA\_N

ClientSampleId :

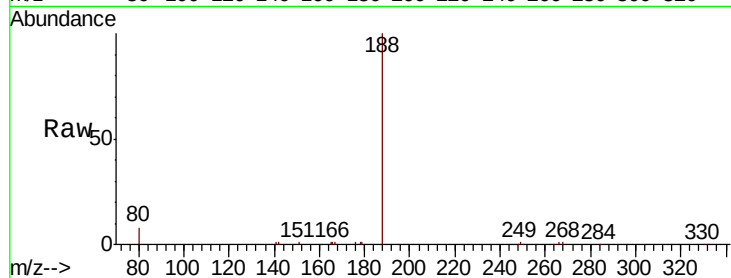
Tot Ion:188 Resp: 26734

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

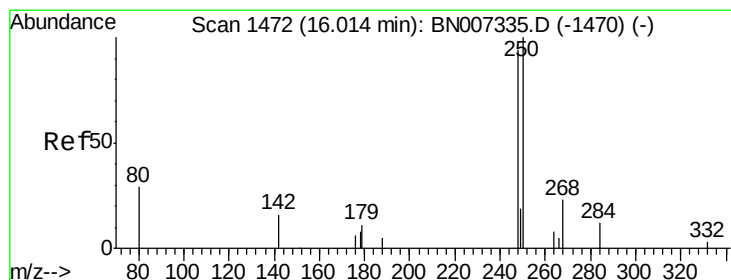
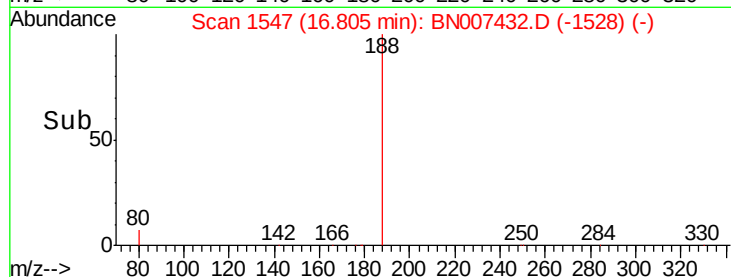
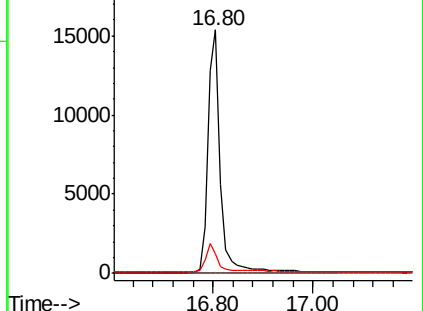
80 8.2 11.8 17.8#



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-Bromophenyl-phenylether

Concen: 0.361 ng

RT: 16.01 min Scan# 1472

Delta R.T. -0.01 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

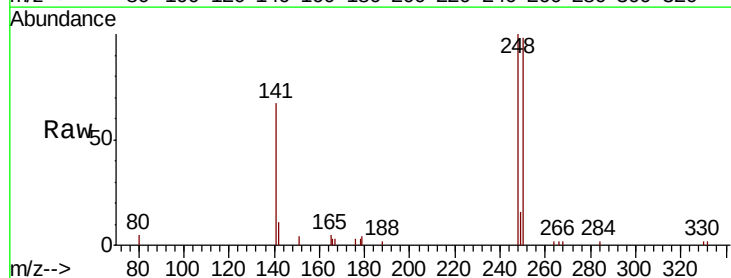
Tgt Ion:248 Resp: 3803

Ion Ratio Lower Upper

248 100

250 98.0 85.0 127.6

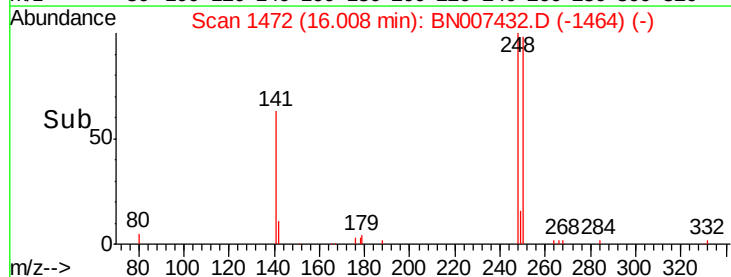
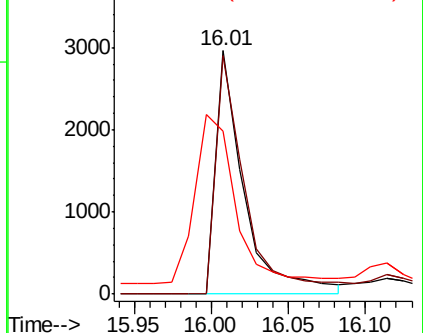
141 67.0 51.7 77.5

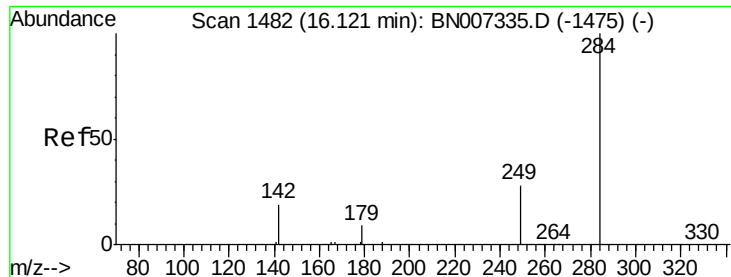


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

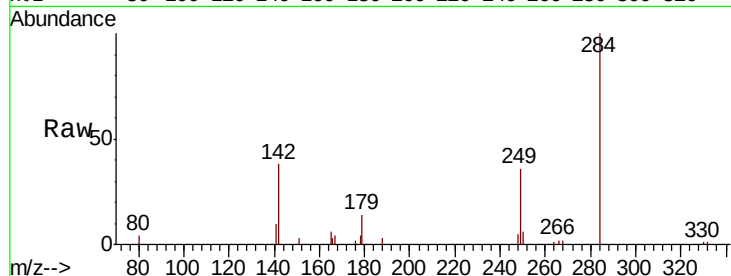




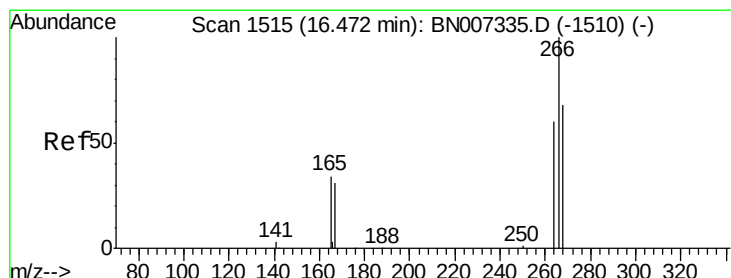
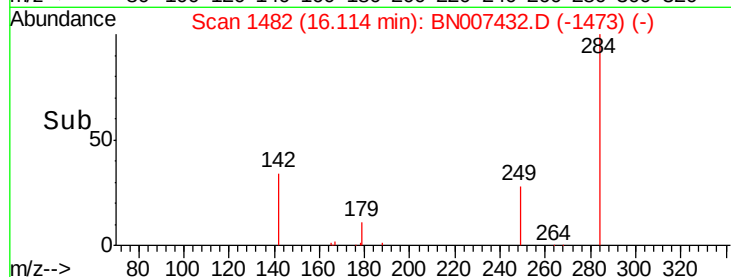
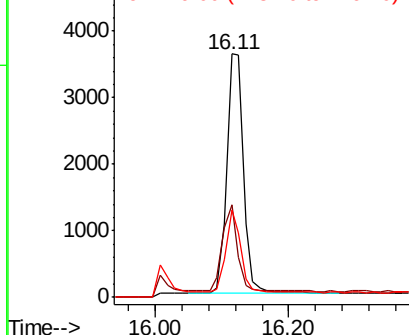
#21  
Hexachlorobenzene  
Concen: 0.349 ng  
RT: 16.11 min Scan# 1482  
Delta R.T. -0.01 min  
Lab File: BN007432.D  
Acq: 27 Aug 2019 12:36

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:284 Resp: 6250  
Ion Ratio Lower Upper  
284 100  
142 31.5 29.0 43.6  
249 30.4 24.9 37.3

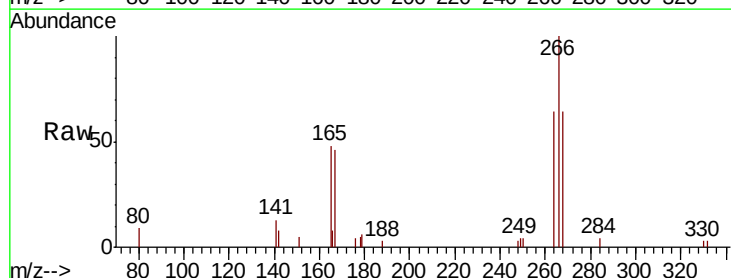


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

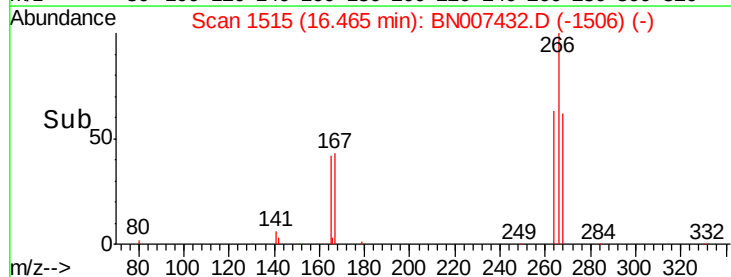
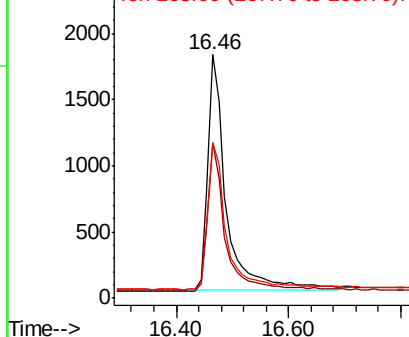


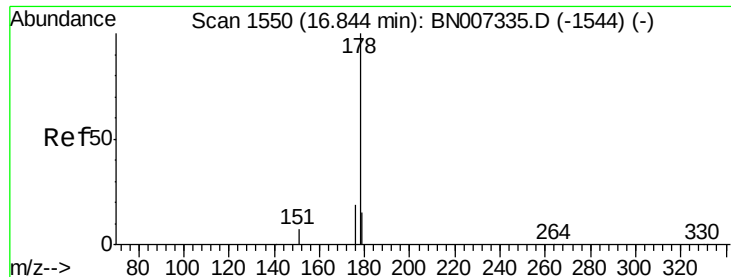
#22  
Pentachlorophenol  
Concen: 0.728 ng  
RT: 16.46 min Scan# 1515  
Delta R.T. -0.01 min  
Lab File: BN007432.D  
Acq: 27 Aug 2019 12:36

Tgt Ion:266 Resp: 4056  
Ion Ratio Lower Upper  
266 100  
264 63.8 57.8 86.8  
268 63.6 99.7 149.5#



Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.347 ng

RT: 16.84 min Scan# 1550

Delta R.T. -0.01 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

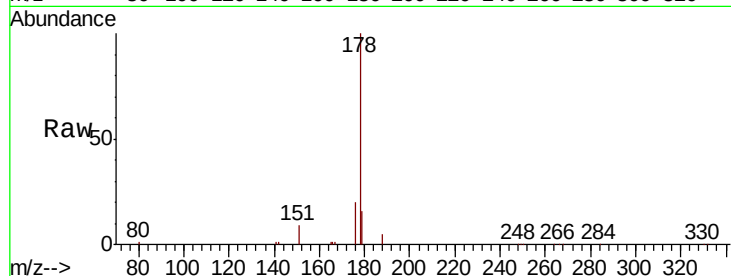
Instrument :

BNA\_N

ClientSampleId :

Tot Ion:178 Resp: 27900

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.0  | 15.3  | 22.9  |
| 179 | 15.3  | 12.6  | 19.0  |

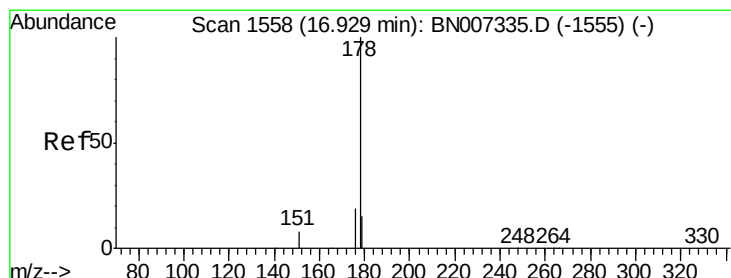
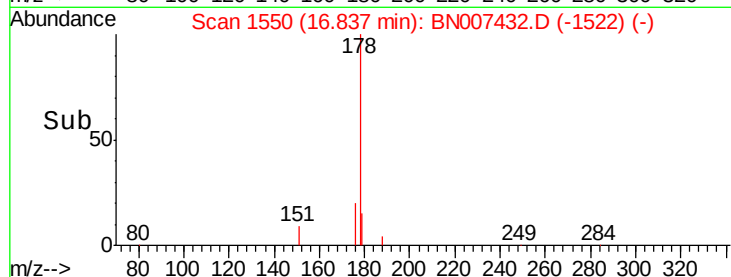
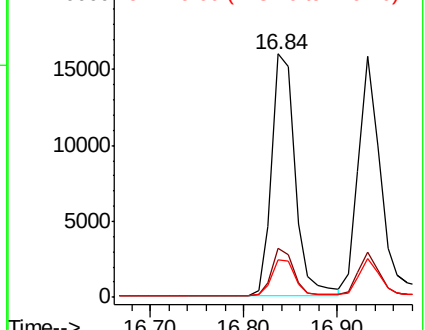


Abundance

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



#24

Anthracene

Concen: 0.321 ng

RT: 16.93 min Scan# 1559

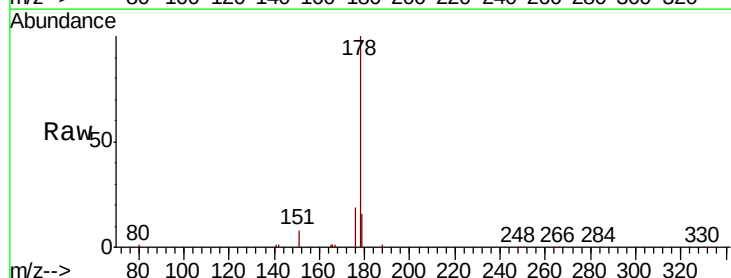
Delta R.T. 0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Tgt Ion:178 Resp: 25953

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.0  | 14.9  | 22.3  |
| 179 | 15.6  | 12.4  | 18.6  |

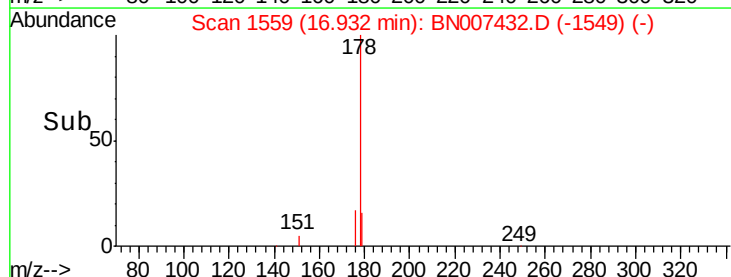
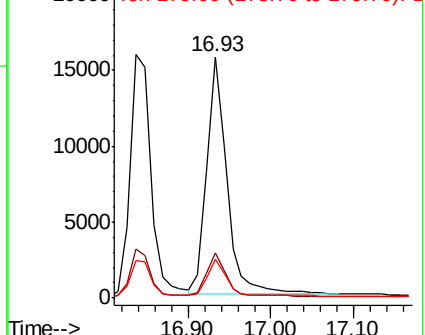


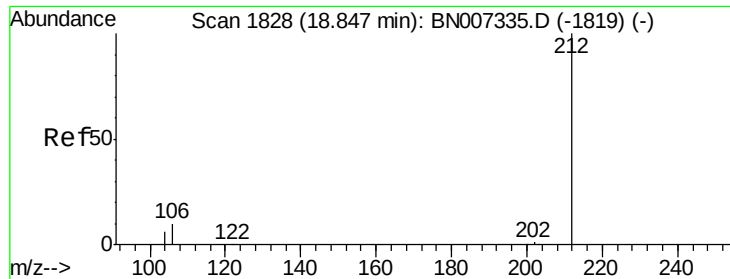
Abundance

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

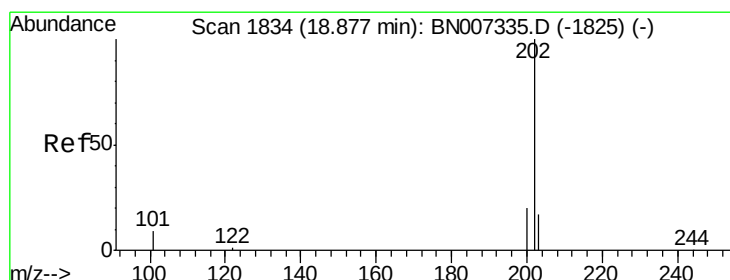
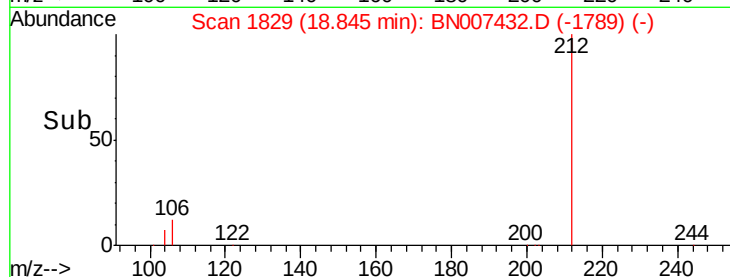
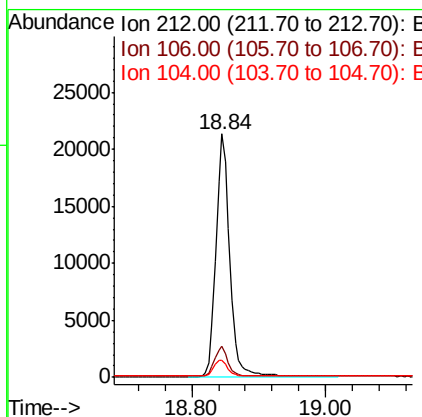
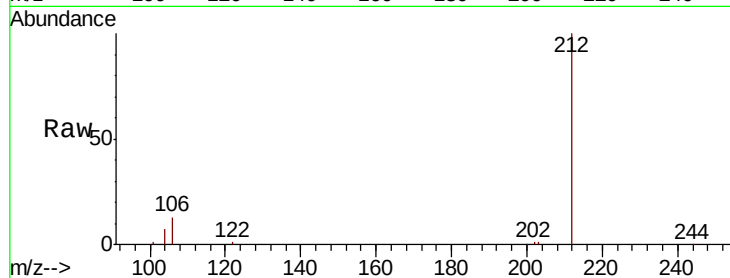




#25  
 Fluoranthene-d10  
 Concen: 0.355 ng  
 RT: 18.84 min Scan# 1829  
 Delta R.T. -0.00 min  
 Lab File: BN007432.D  
 Acq: 27 Aug 2019 12:36

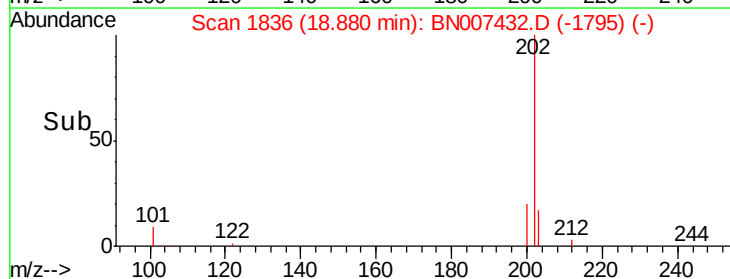
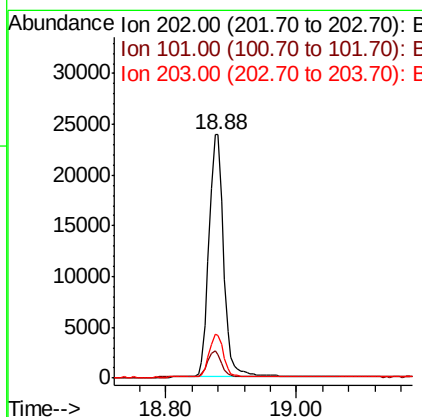
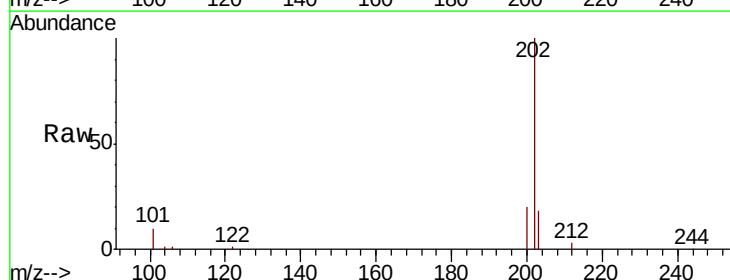
Instrument :  
 BNA\_N  
 ClientSampled :

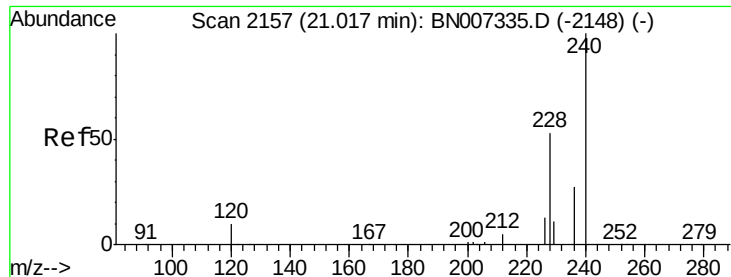
Tot Ion:212 Resp: 30531  
 Ion Ratio Lower Upper  
 212 100  
 106 12.1 9.0 13.4  
 104 6.8 5.4 8.2



#26  
 Fluoranthene  
 Concen: 0.359 ng  
 RT: 18.88 min Scan# 1836  
 Delta R.T. 0.00 min  
 Lab File: BN007432.D  
 Acq: 27 Aug 2019 12:36

Tgt Ion:202 Resp: 37103  
 Ion Ratio Lower Upper  
 202 100  
 101 10.1 7.7 11.5  
 203 17.0 13.7 20.5





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.03 min Scan# 2159

Delta R.T. 0.01 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Instrument :

BNA\_N

ClientSampled :

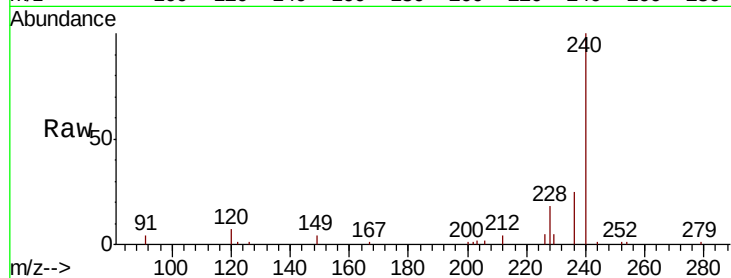
Tot Ion:240 Resp: 30363

Ion Ratio Lower Upper

240 100

120 7.1 9.6 14.4#

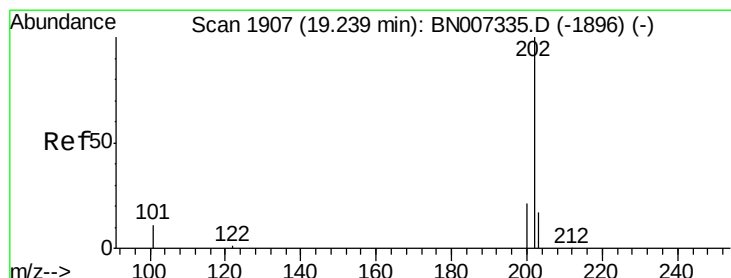
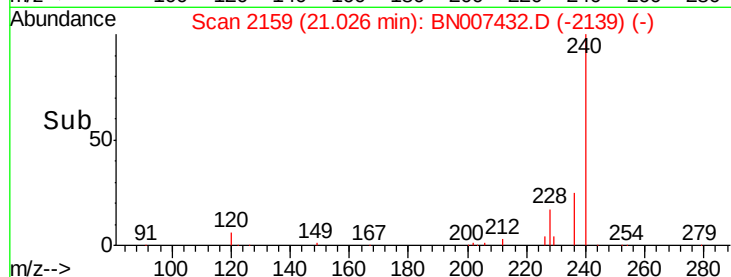
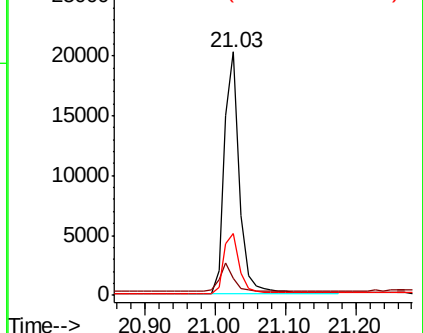
236 25.5 22.2 33.2



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



#28

Pyrene

Concen: 0.319 ng

RT: 19.24 min Scan# 1909

Delta R.T. 0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

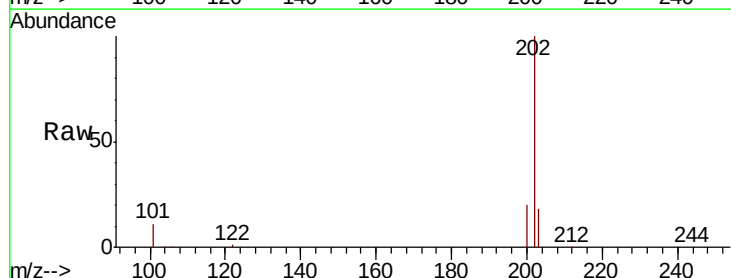
Tgt Ion:202 Resp: 38912

Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

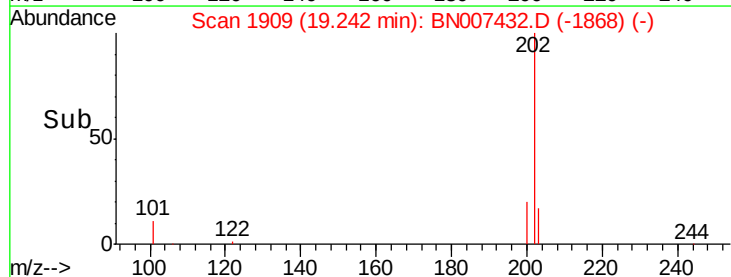
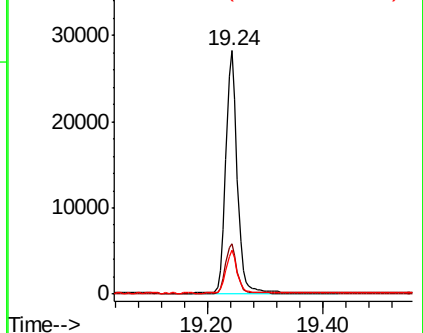
203 17.5 14.2 21.4



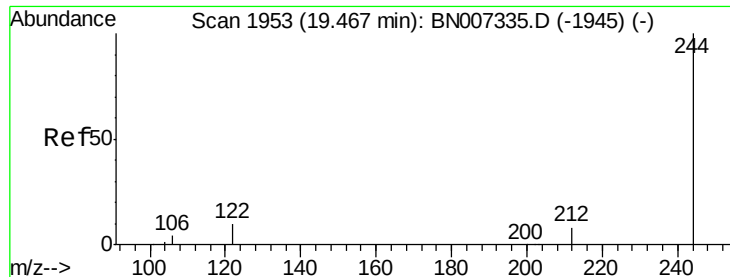
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.283 ng

RT: 19.47 min Scan# 1954

Delta R.T. -0.00 min

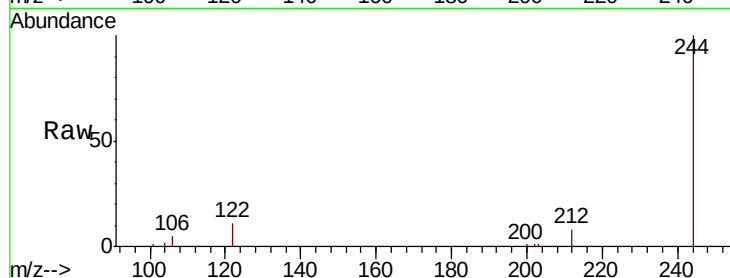
Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Instrument :

BNA\_N

ClientSampleId :



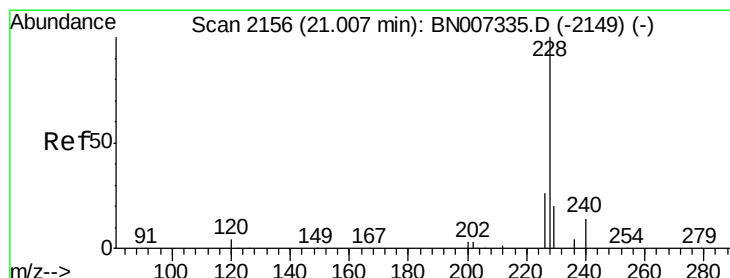
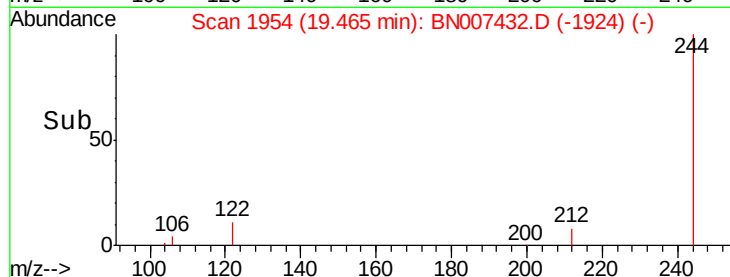
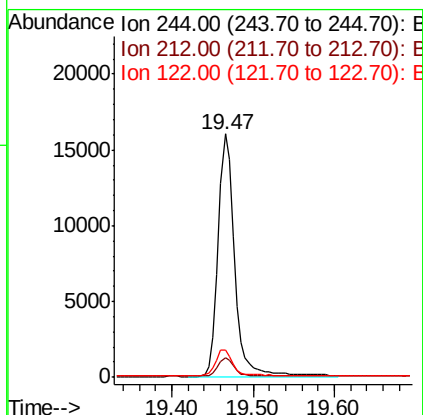
Tot Ion:244 Resp: 22509

Ion Ratio Lower Upper

244 100

212 8.0 7.0 10.6

122 11.4 9.6 14.4



#30

Benzo(a)anthracene

Concen: 0.306 ng

RT: 21.00 min Scan# 2157

Delta R.T. -0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

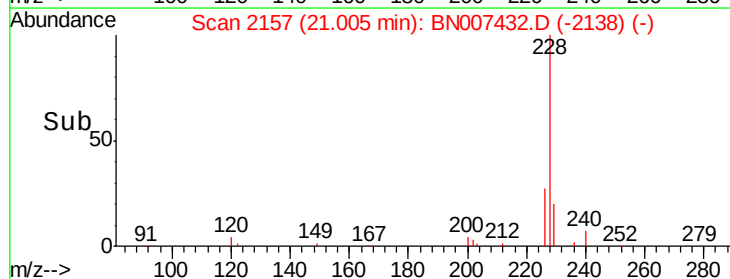
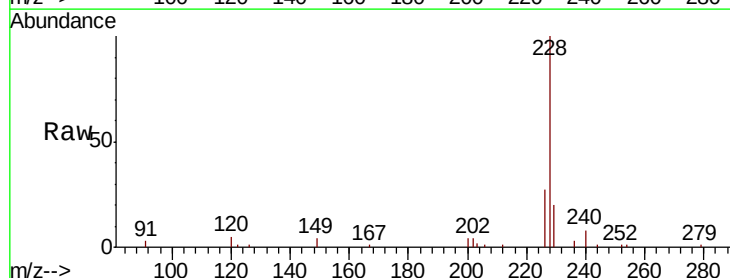
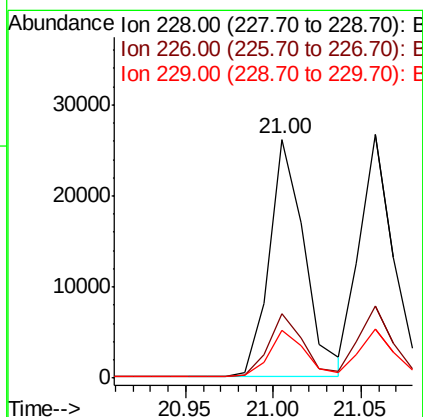
Tgt Ion:228 Resp: 36434

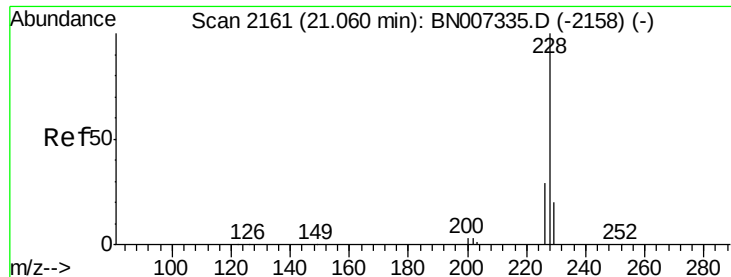
Ion Ratio Lower Upper

228 100

226 27.2 21.3 31.9

229 20.2 16.1 24.1





#31

Chrysene

Concen: 0.316 ng

RT: 21.06 min Scan# 2162

Delta R.T. -0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

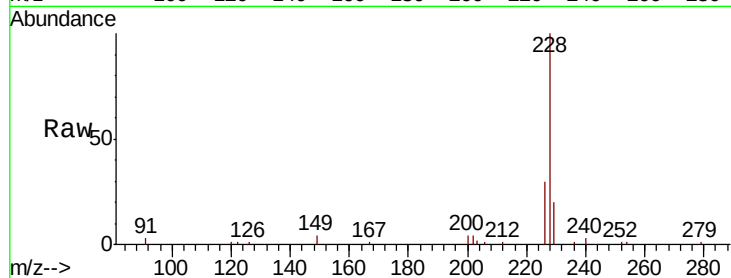
Instrument :

BNA\_N

ClientSampleId :

Tot Ion:228 Resp: 36360

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.7  | 23.5  | 35.3  |
| 229 | 20.0  | 16.6  | 24.8  |

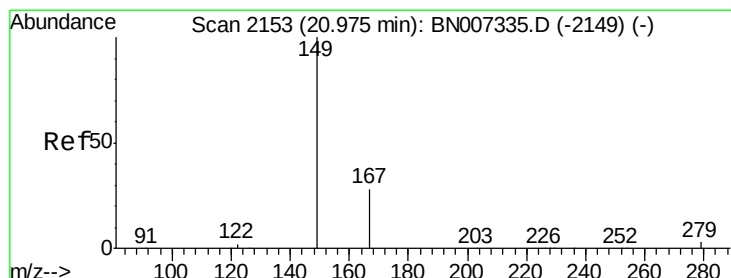
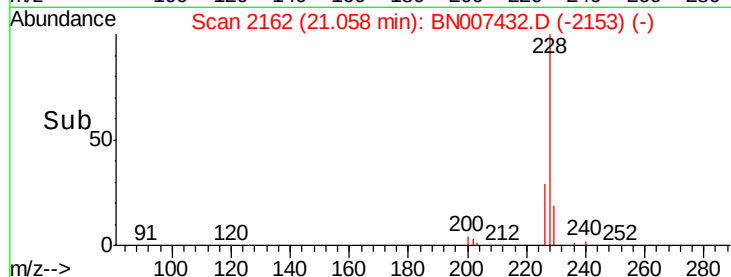
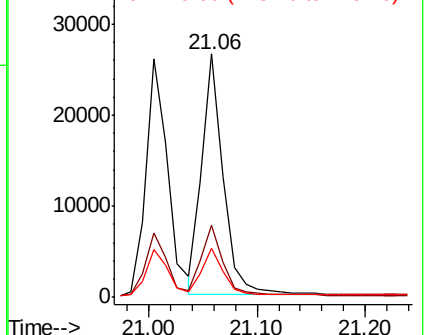


Abundance

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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.289 ng

RT: 20.97 min Scan# 2154

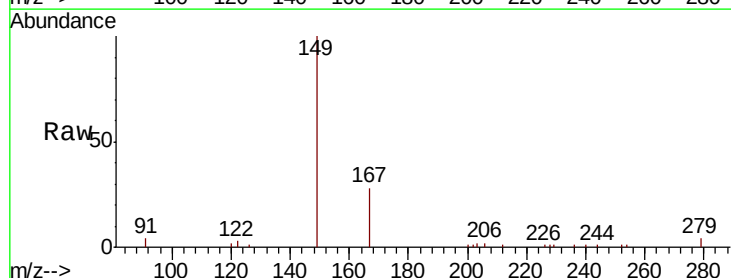
Delta R.T. -0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Tgt Ion:149 Resp: 23792

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 28.1  | 22.8  | 34.2  |
| 279 | 4.4   | 3.5   | 5.3   |

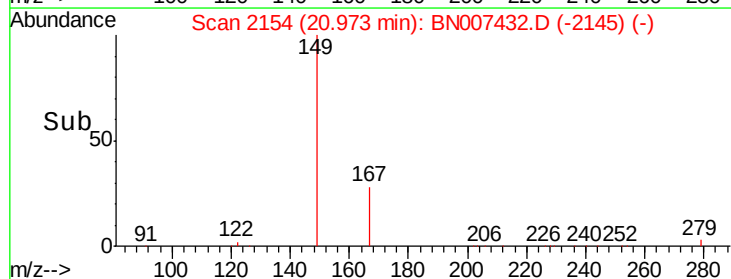
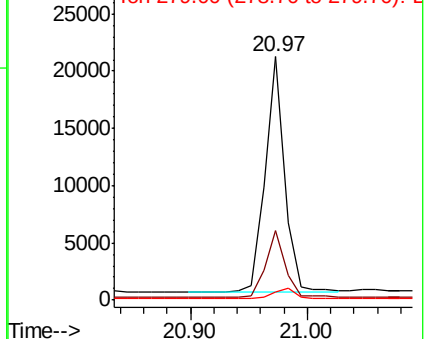


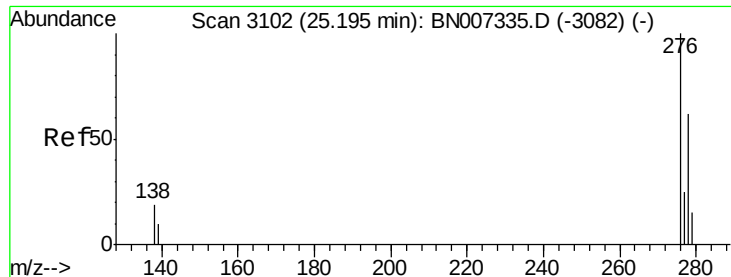
Abundance

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

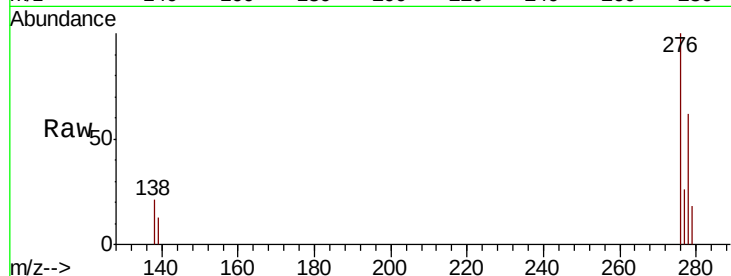




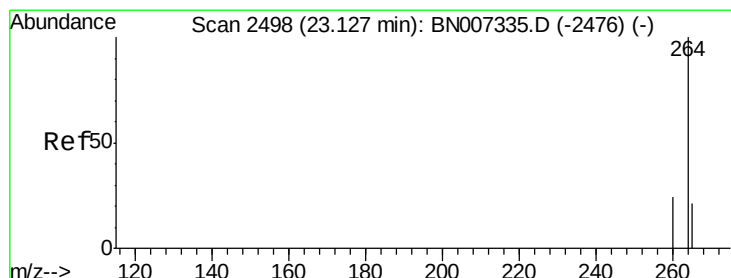
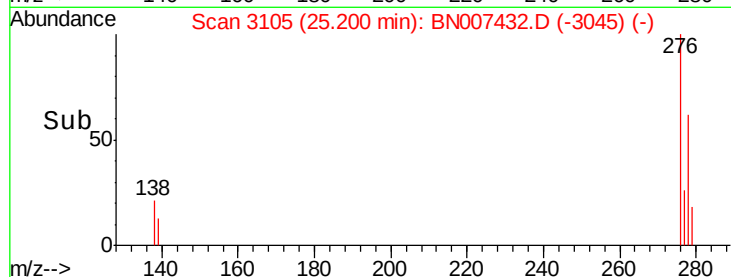
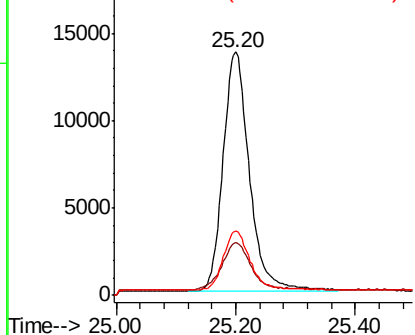
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.305 ng  
 RT: 25.20 min Scan# 3105  
 Delta R.T. 0.01 min  
 Lab File: BN007432.D  
 Acq: 27 Aug 2019 12:36

Instrument :  
 BNA\_N  
 ClientSampleId :

Tot Ion:276 Resp: 42320  
 Ion Ratio Lower Upper  
 276 100  
 138 21.4 15.1 22.7  
 277 24.7 19.7 29.5

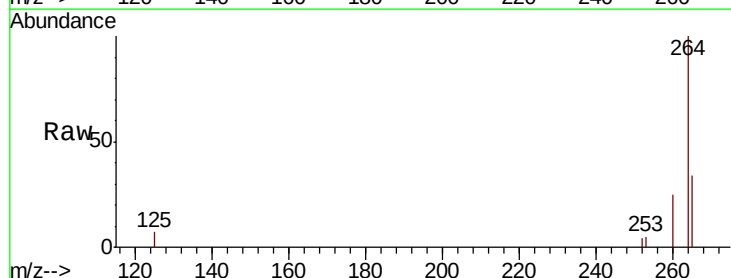


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

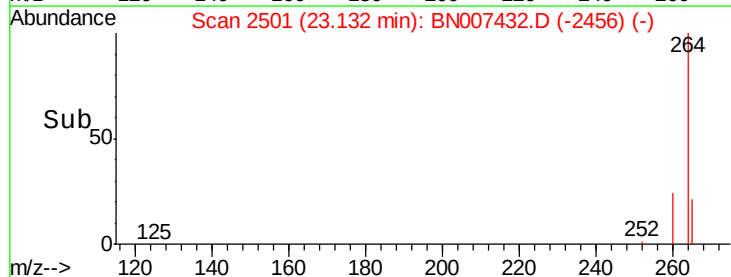
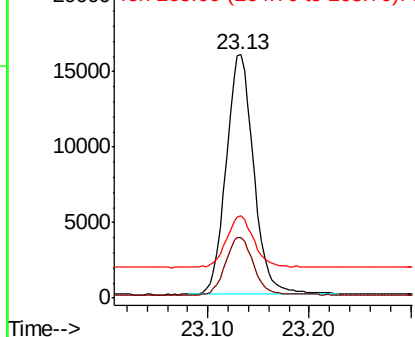


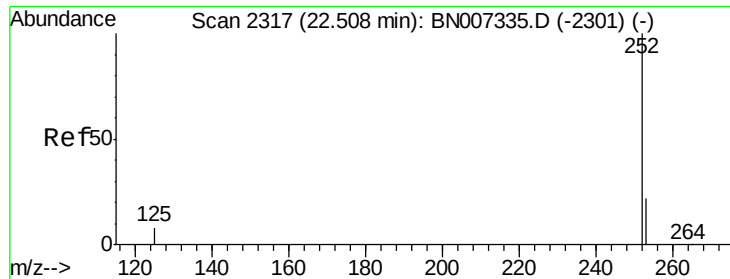
#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.13 min Scan# 2501  
 Delta R.T. 0.01 min  
 Lab File: BN007432.D  
 Acq: 27 Aug 2019 12:36

Tgt Ion:264 Resp: 30187  
 Ion Ratio Lower Upper  
 264 100  
 260 24.7 19.7 29.5  
 265 33.7 29.9 44.9



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

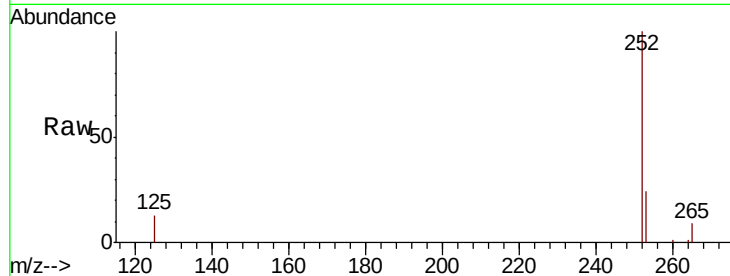




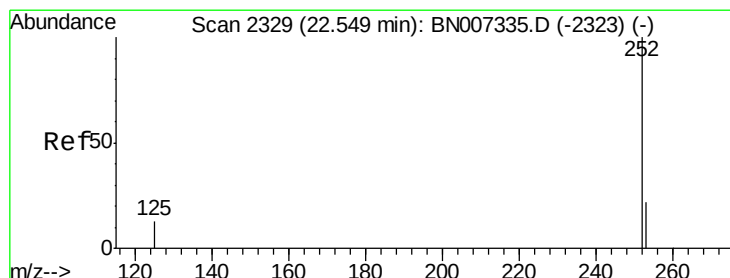
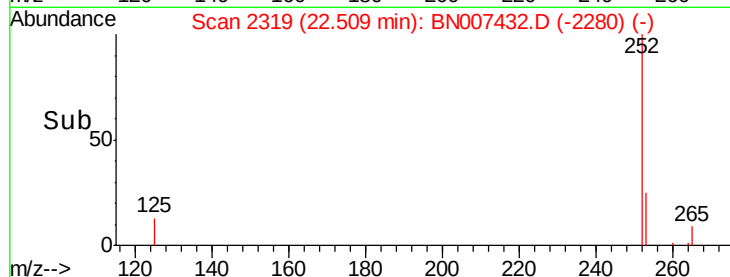
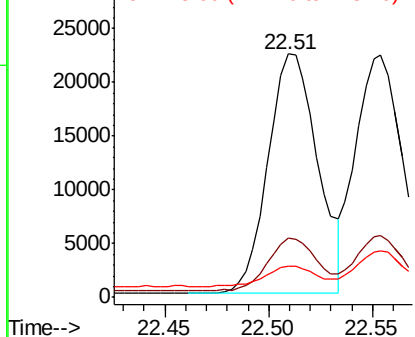
#35  
Benzo(b)fluoranthene  
Concen: 0.338 ng  
RT: 22.51 min Scan# 2319  
Delta R.T. 0.00 min  
Lab File: BN007432.D  
Acq: 27 Aug 2019 12:36

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:252 Resp: 36920  
Ion Ratio Lower Upper  
252 100  
253 24.3 19.2 28.8  
125 12.7 10.6 16.0

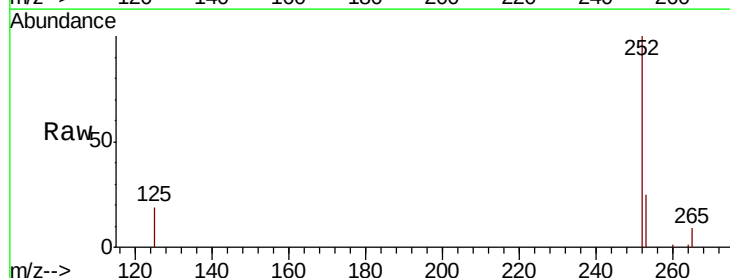


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

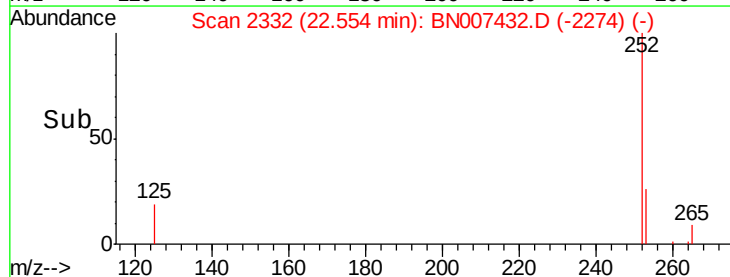
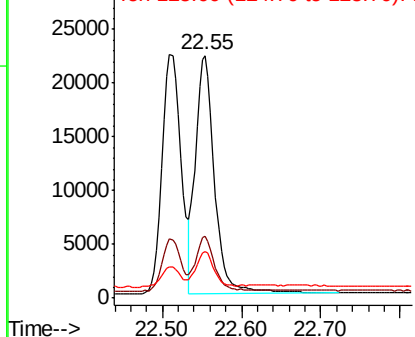


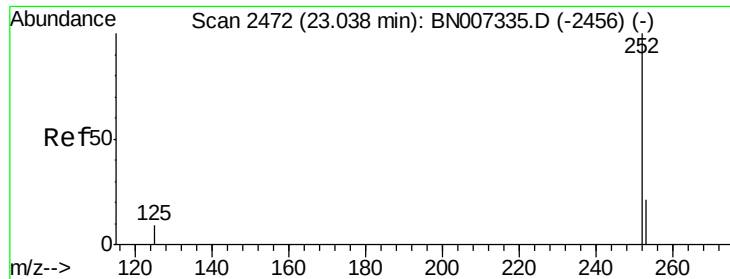
#36  
Benzo(k)fluoranthene  
Concen: 0.343 ng  
RT: 22.55 min Scan# 2332  
Delta R.T. 0.01 min  
Lab File: BN007432.D  
Acq: 27 Aug 2019 12:36

Tgt Ion:252 Resp: 37100  
Ion Ratio Lower Upper  
252 100  
253 25.3 19.4 29.2  
125 19.1 13.1 19.7



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





#37

Benzo(a)pyrene

Concen: 0.335 ng

RT: 23.04 min Scan# 2474

Delta R.T. 0.00 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Instrument :

BNA\_N

ClientSampleId :

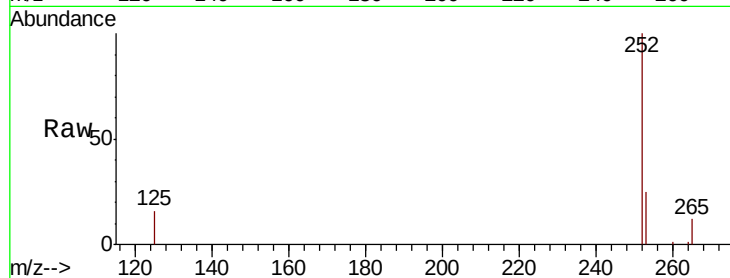
Tot Ion:252 Resp: 34905

Ion Ratio Lower Upper

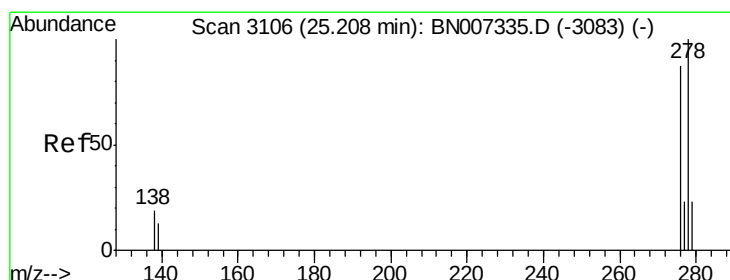
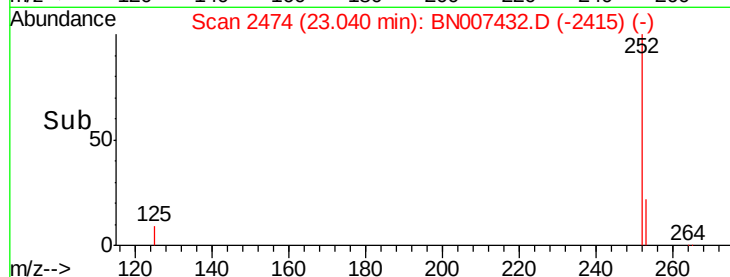
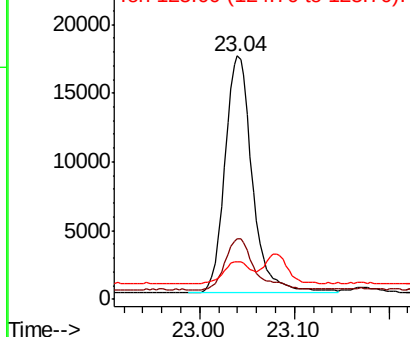
252 100

253 24.9 19.5 29.3

125 15.6 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



#38

Dibenzo(a,h)anthracene

Concen: 0.328 ng

RT: 25.21 min Scan# 3109

Delta R.T. 0.01 min

Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

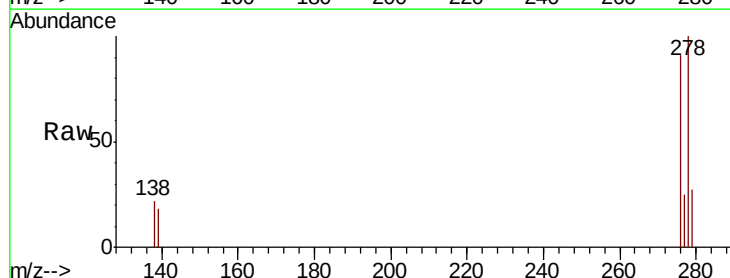
Tgt Ion:278 Resp: 34019

Ion Ratio Lower Upper

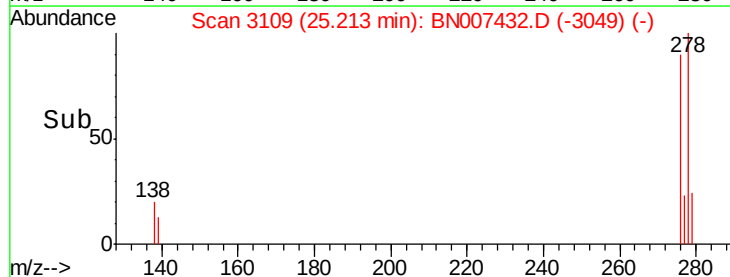
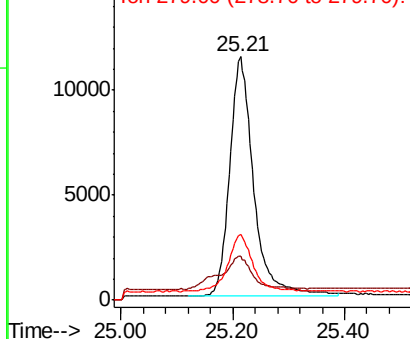
278 100

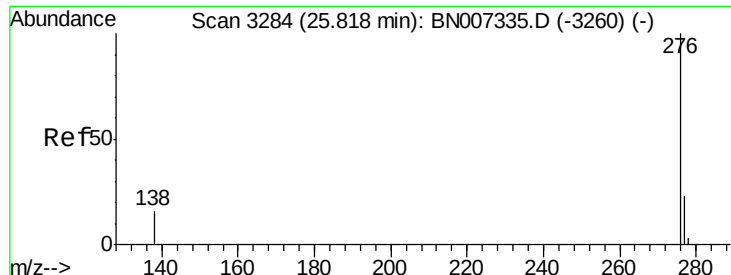
139 17.8 13.7 20.5

279 26.9 20.2 30.4



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





#39

Benzo(a,h,i)perylene

Concen: 0.334 ng

RT: 25.83 min Scan# 3288

Delta R.T. 0.01 min

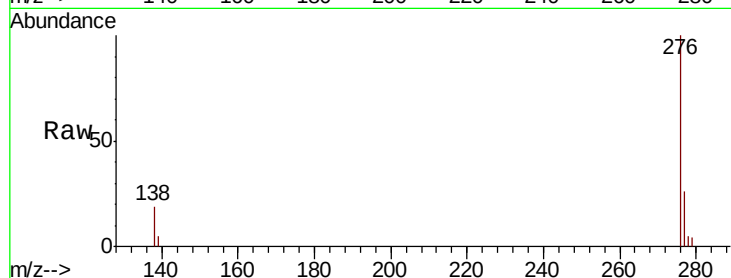
Lab File: BN007432.D

Acq: 27 Aug 2019 12:36

Instrument :

BNA\_N

ClientSampleId :



Tot Ion: 276 Resp: 34596

Ion Ratio Lower Upper

276 100

277 25.6 19.6 29.4

138 19.5 16.3 24.5

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

