

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN082619\  
 Data File : BN007417.D  
 Acq On : 26 Aug 2019 19:37  
 Operator : HP/JU  
 Sample : K4514-04MSD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S602-M-1.0-1.5-082319MSD

Quant Time: Aug 27 05:46:20 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  | 4950     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.15 | 136  | 20120    | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.05 | 164  | 12289    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.80 | 188  | 22911    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.03 | 240  | 21985    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.13 | 264  | 25449    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.04  | 112 | 8070  | 0.47 | ng | 0.00 |
| 5) Phenol-d6                | 6.59  | 99  | 10884 | 0.51 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.53  | 82  | 7843  | 0.45 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.76 | 152 | 21052 | 0.63 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.55 | 330 | 3156  | 0.49 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 12.66 | 172 | 19098 | 0.39 | ng | 0.00 |
| 25) Fluoranthene-d10        | 18.84 | 212 | 30749 | 0.42 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.47 | 244 | 21994 | 0.38 | ng | 0.00 |

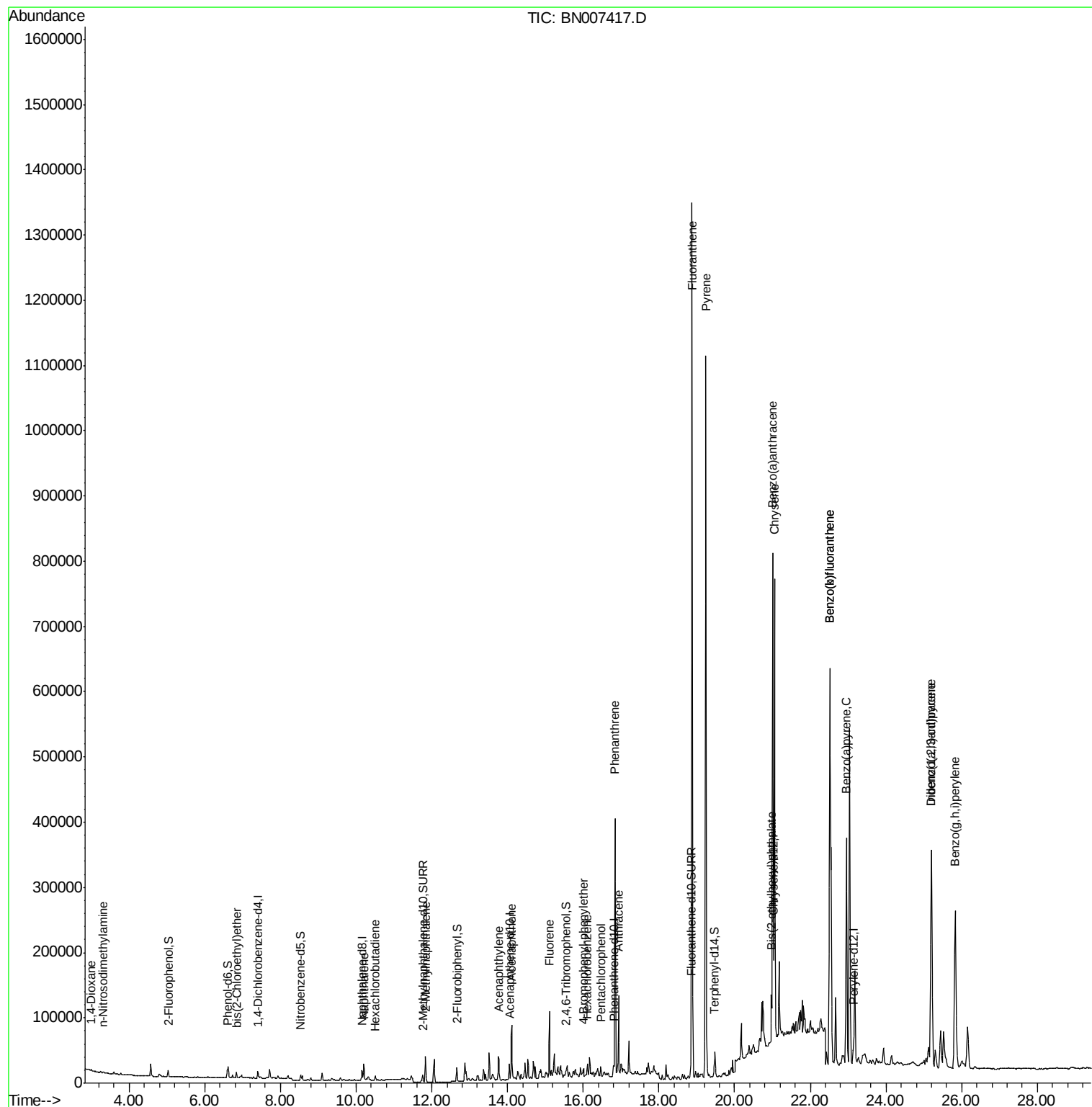
|                                |       |     |         |        |        |      |
|--------------------------------|-------|-----|---------|--------|--------|------|
| Target Compounds               |       |     |         |        | Qvalue |      |
| 2) 1,4-Dioxane                 | 3.01  | 88  | 2409    | 0.293  | ng     | # 93 |
| 3) n-Nitrosodimethylamine      | 3.32  | 42  | 1289    | 0.337  | ng     | # 55 |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93  | 7775    | 0.435  | ng     | 97   |
| 9) Naphthalene                 | 10.20 | 128 | 32083   | 0.558  | ng     | # 90 |
| 10) Hexachlorobutadiene        | 10.51 | 225 | 4941    | 0.420  | ng     | # 98 |
| 12) 2-Methylnaphthalene        | 11.83 | 142 | 28820   | 0.736  | ng     | 97   |
| 16) Acenaphthylene             | 13.76 | 152 | 42605   | 0.586  | ng     | 95   |
| 17) Acenaphthene               | 14.11 | 154 | 42082   | 0.989  | ng     | 99   |
| 18) Fluorene                   | 15.10 | 166 | 51991   | 0.966  | ng     | 97   |
| 20) 4-Bromophenyl-phenylether  | 16.01 | 248 | 4525    | 0.501  | ng     | # 90 |
| 21) Hexachlorobenzene          | 16.11 | 284 | 7027    | 0.458  | ng     | 96   |
| 22) Pentachlorophenol          | 16.46 | 266 | 4857    | 1.018  | ng     | # 63 |
| 23) Phenanthrene               | 16.84 | 178 | 406011  | 5.891  | ng     | 99   |
| 24) Anthracene                 | 16.93 | 178 | 119304  | 1.721  | ng     | # 96 |
| 26) Fluoranthene               | 18.87 | 202 | 1181165 | 13.349 | ng     | 99   |
| 28) Pyrene                     | 19.24 | 202 | 1026500 | 11.607 | ng     | # 94 |
| 30) Benzo(a)anthracene         | 21.00 | 228 | 627054  | 7.263  | ng     | 98   |
| 31) Chrysene                   | 21.06 | 228 | 611292  | 7.335  | ng     | 98   |
| 32) Bis(2-ethylhexyl)phthalate | 20.97 | 149 | 37586   | 0.654  | ng     | 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.20 | 276 | 506582  | 5.046  | ng     | 98   |
| 35) Benzo(b)fluoranthene       | 22.51 | 252 | 933898  | 10.128 | ng     | # 96 |
| 36) Benzo(k)fluoranthene       | 22.51 | 252 | 933898  | 10.248 | ng     | # 93 |
| 37) Benzo(a)pyrene             | 22.95 | 252 | 432536  | 4.929  | ng     | 99   |
| 38) Dibenzo(a,h)anthracene     | 25.21 | 278 | 153331  | 1.751  | ng     | # 89 |
| 39) Benzo(g,h,i)perylene       | 25.83 | 276 | 491882  | 5.639  | ng     | 96   |

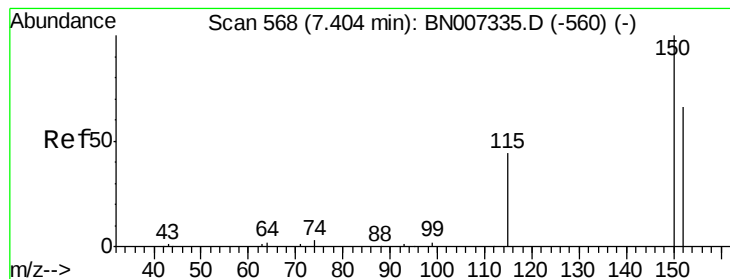
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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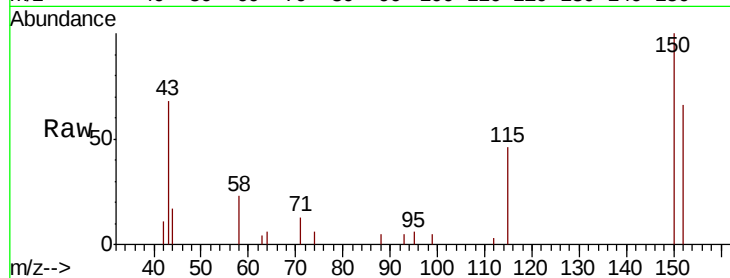


#1

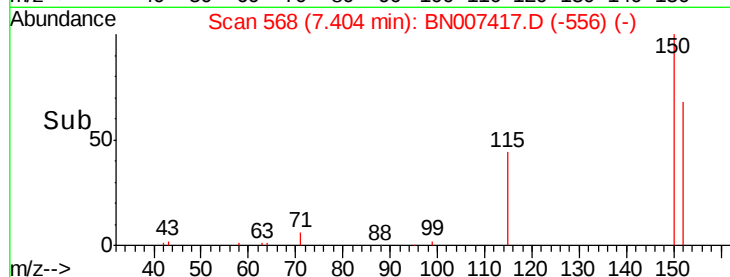
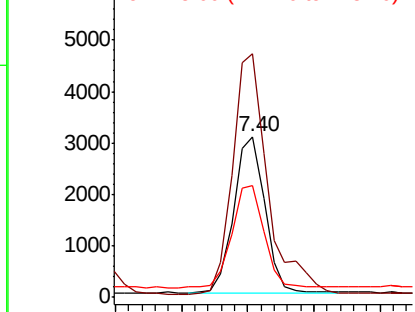
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.40 min Scan# 568  
Delta R.T. -0.00 min  
Lab File: BN007417.D  
Acq: 26 Aug 2019 19:37

Instrument :  
BNA\_N  
ClientSampleId :  
S602-M-1.0-1.5-082319MSD

Tgt Ion: 152 Resp: 4950  
Ion Ratio Lower Upper  
152 100  
150 151.6 109.1 163.7  
115 69.3 59.6 89.4



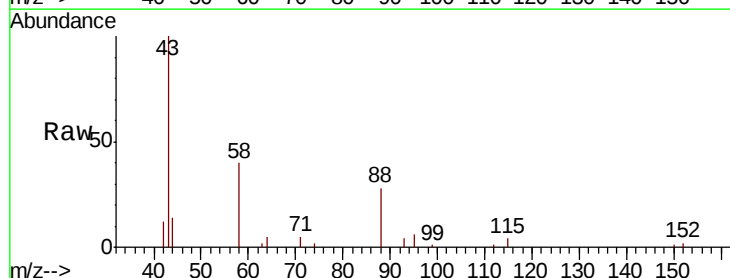
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



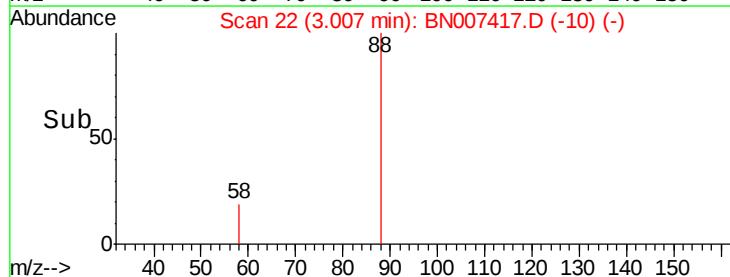
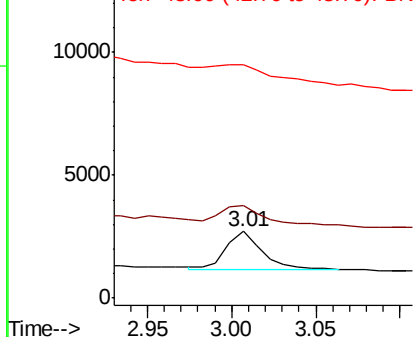
#2

1,4-Dioxane  
Concen: 0.293 ng  
RT: 3.01 min Scan# 22  
Delta R.T. -0.00 min  
Lab File: BN007417.D  
Acq: 26 Aug 2019 19:37

Tgt Ion: 88 Resp: 2409  
Ion Ratio Lower Upper  
88 100  
58 68.7 50.5 75.7  
43 0.0 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: 0.337 ng

RT: 3.32 min Scan# 61

Delta R.T. -0.01 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

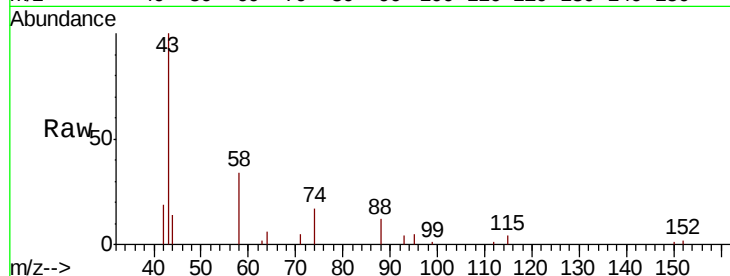
Tgt Ion: 42 Resp: 1289

Ion Ratio Lower Upper

42 100

74 245.8 144.7 217.1#

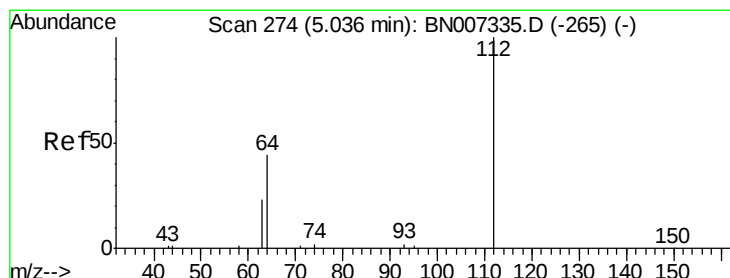
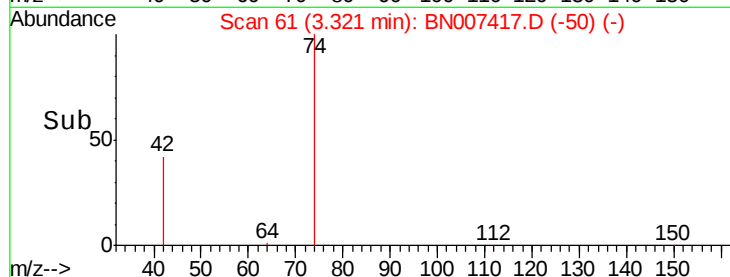
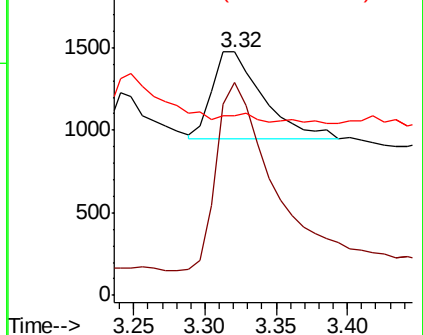
44 1.8 3.2 4.8#



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: 0.475 ng

RT: 5.04 min Scan# 274

Delta R.T. 0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

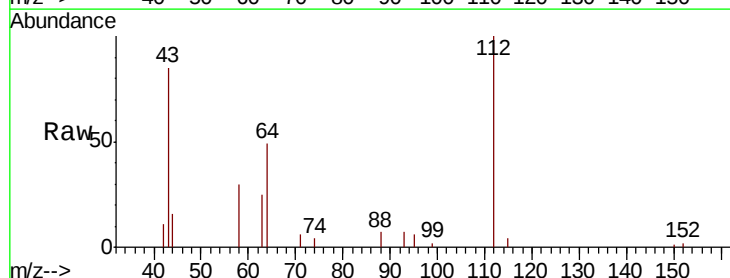
Tgt Ion: 112 Resp: 8070

Ion Ratio Lower Upper

112 100

64 52.4 42.3 63.5

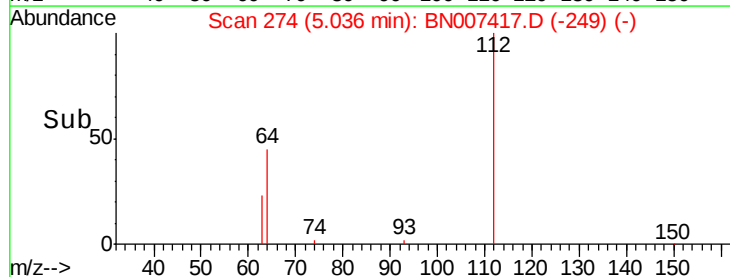
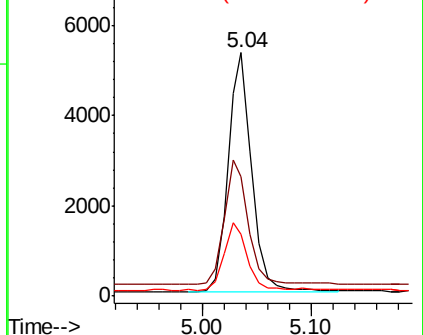
63 27.1 23.6 35.4



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: 0.506 ng

RT: 6.59 min Scan# 467

Delta R.T. 0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

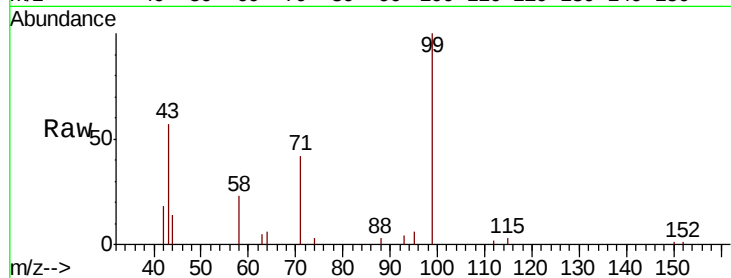
Tgt Ion: 99 Resp: 10884

Ion Ratio Lower Upper

99 100

42 18.6 11.2 16.8#

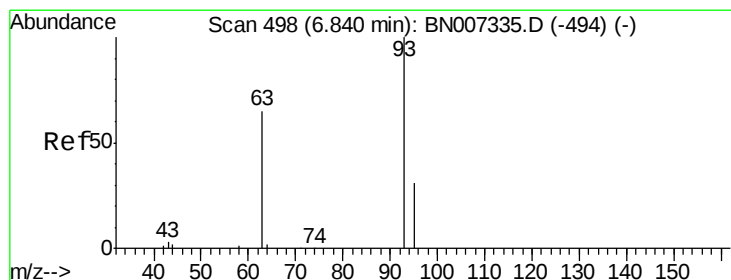
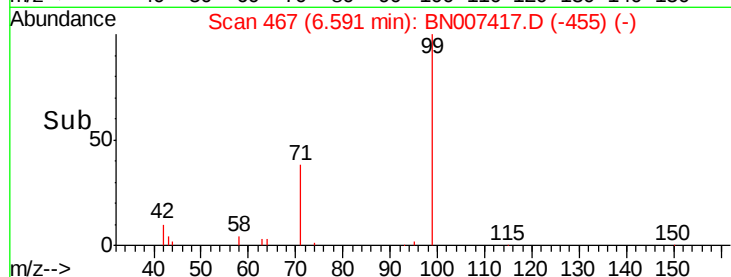
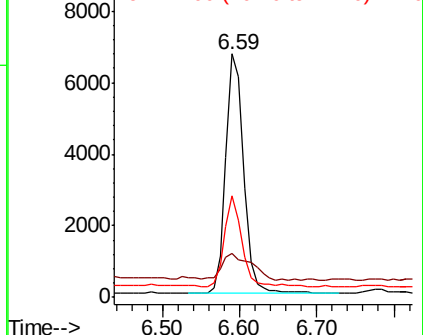
71 36.6 31.8 47.8



Abundance Ion 99.00 (98.70 to 99.70): BN007417.D (-462) (-)

Ion 42.00 (41.70 to 42.70): BN007417.D (-462) (-)

Ion 71.00 (70.70 to 71.70): BN007417.D (-462) (-)



#6

bis(2-Chloroethyl)ether

Concen: 0.435 ng

RT: 6.84 min Scan# 498

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

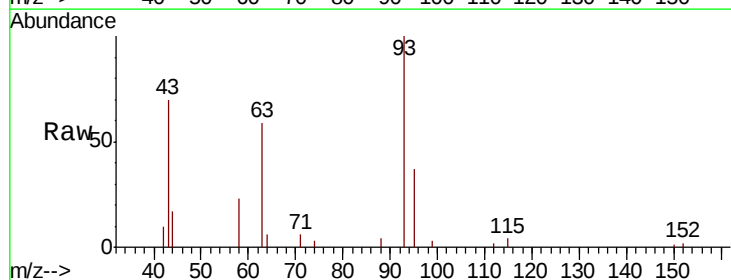
Tgt Ion: 93 Resp: 7775

Ion Ratio Lower Upper

93 100

63 62.0 51.9 77.9

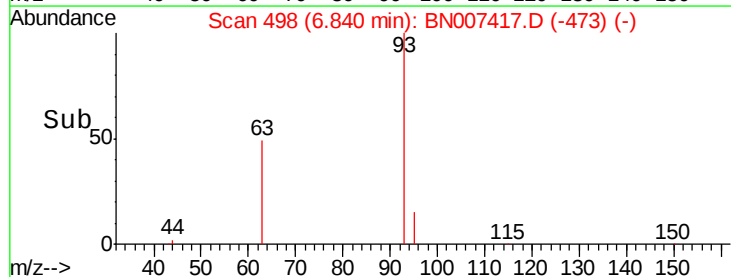
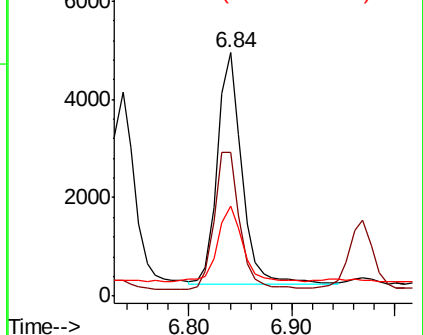
95 33.3 27.7 41.5

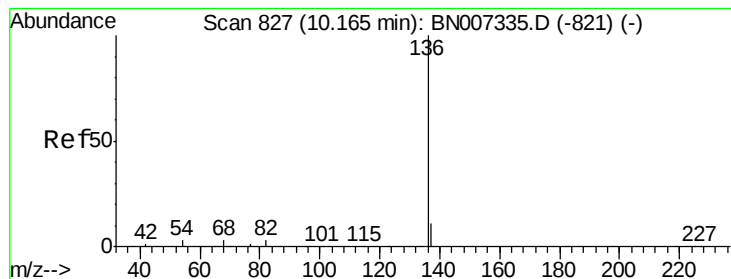


Abundance Ion 93.00 (92.70 to 93.70): BN007417.D (-494) (-)

Ion 63.00 (62.70 to 63.70): BN007417.D (-494) (-)

Ion 95.00 (94.70 to 95.70): BN007417.D (-494) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 826

Delta R.T. -0.01 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

Tgt Ion: 136 Resp: 20120

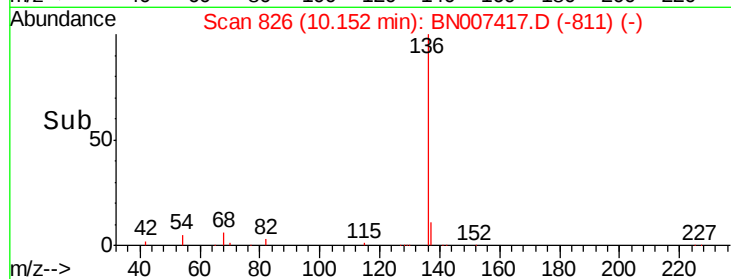
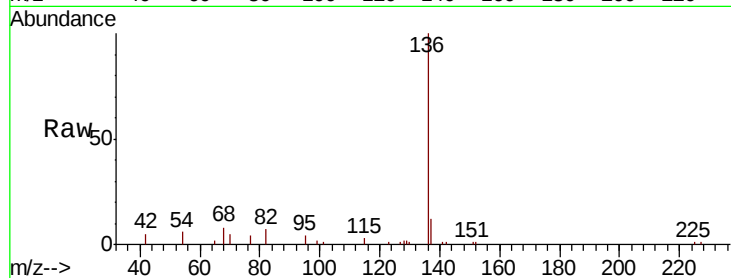
Ion Ratio Lower Upper

136 100

137 11.8 12.9 19.3#

54 6.4 8.6 12.8#

68 8.1 17.0 25.4#

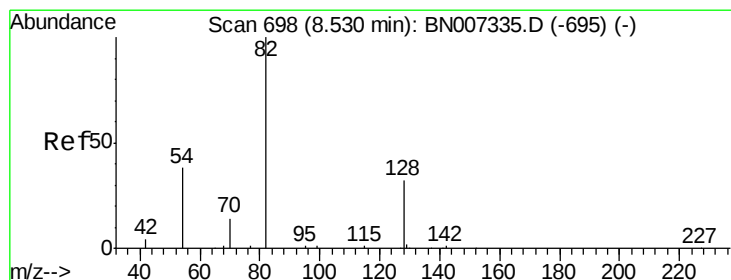
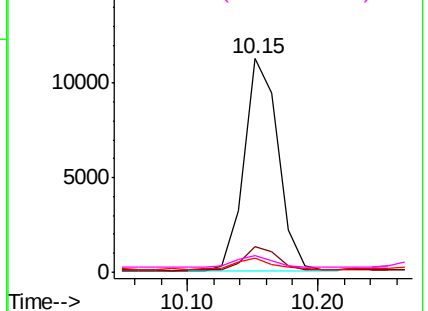


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.448 ng

RT: 8.53 min Scan# 698

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

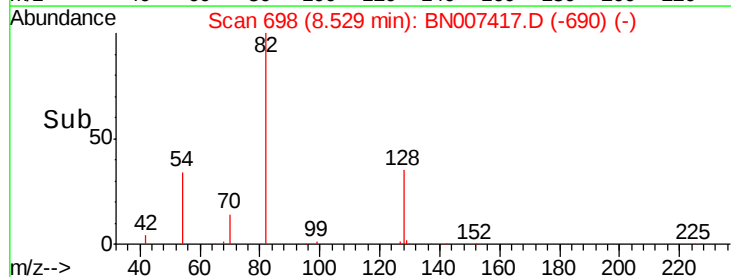
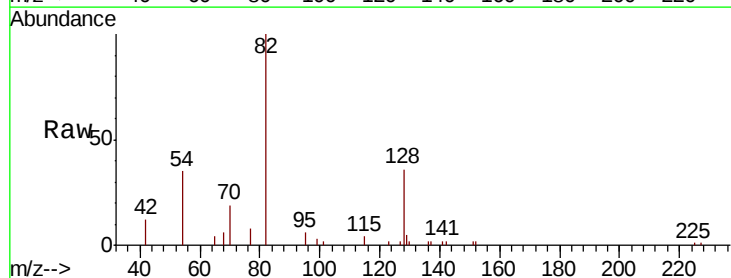
Tgt Ion: 82 Resp: 7843

Ion Ratio Lower Upper

82 100

128 35.6 19.7 29.5#

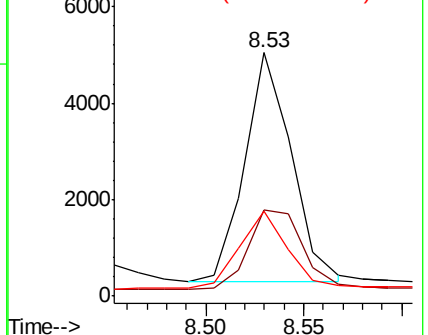
54 35.1 25.8 38.6

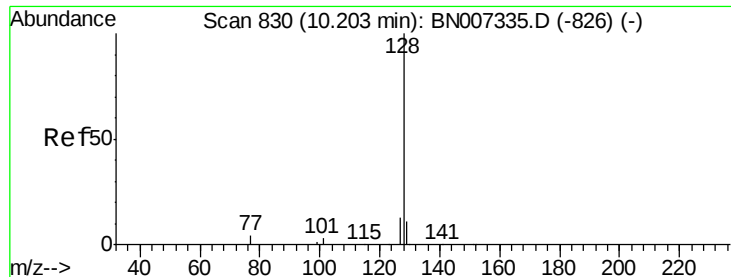


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.558 ng

RT: 10.20 min Scan# 830

Delta R.T. -0.00 min

Lab File: BN007417.D

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ClientSampleId :

S602-M-1.0-1.5-082319MSD

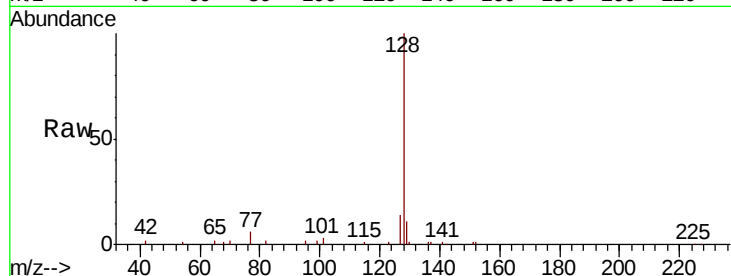
Tgt Ion:128 Resp: 32083

Ion Ratio Lower Upper

128 100

129 11.4 11.1 16.7

127 13.6 15.5 23.3#

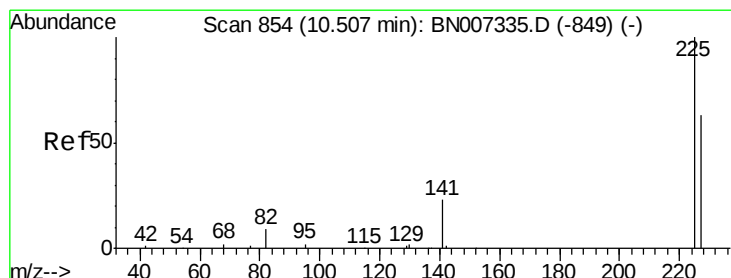
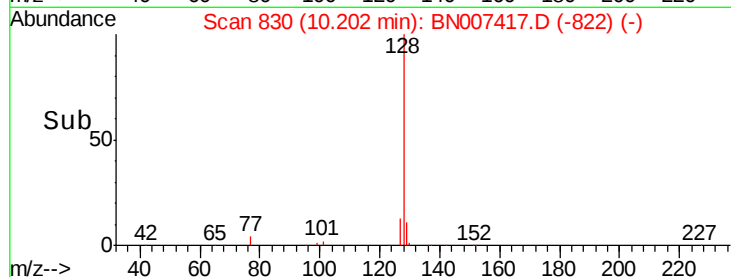
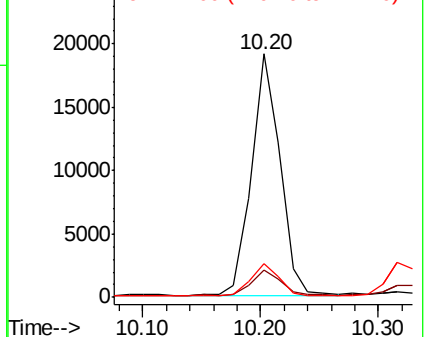


Abundance

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: 0.420 ng

RT: 10.51 min Scan# 854

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

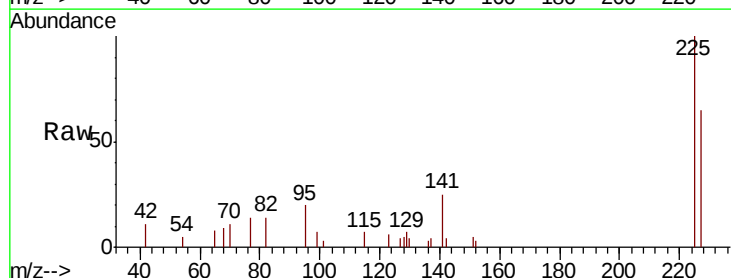
Tgt Ion:225 Resp: 4941

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.0 50.7 76.1

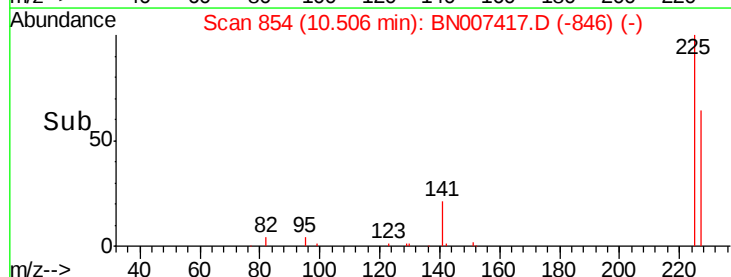
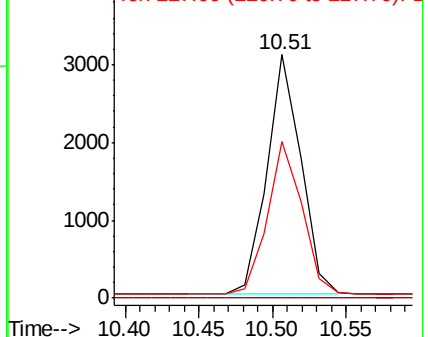


Abundance

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: 0.630 ng

RT: 11.76 min Scan# 989

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

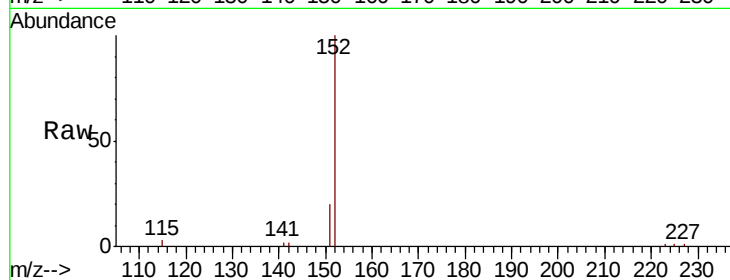
S602-M-1.0-1.5-082319MSD

Tgt Ion:152 Resp: 21052

Ion Ratio Lower Upper

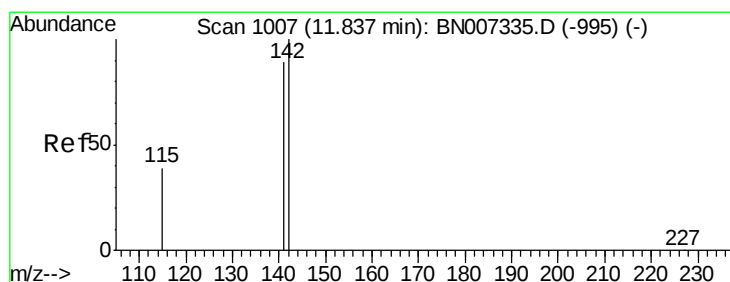
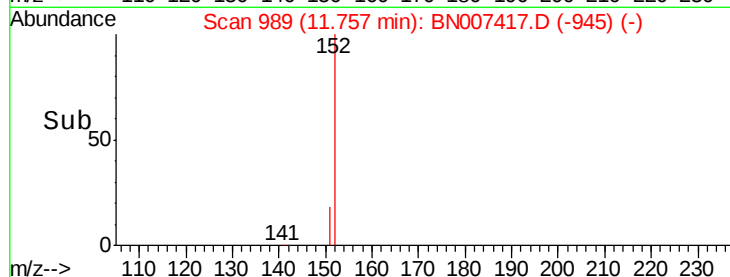
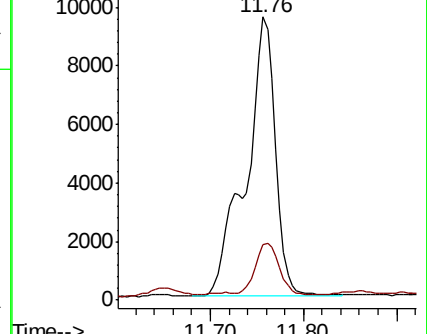
152 100

151 15.1 16.2 24.2#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.736 ng

RT: 11.83 min Scan# 1006

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

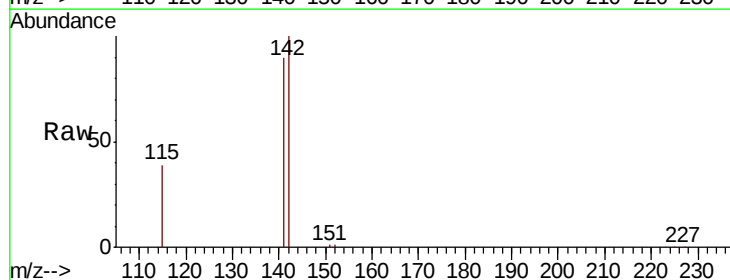
Tgt Ion:142 Resp: 28820

Ion Ratio Lower Upper

142 100

141 90.3 72.8 109.2

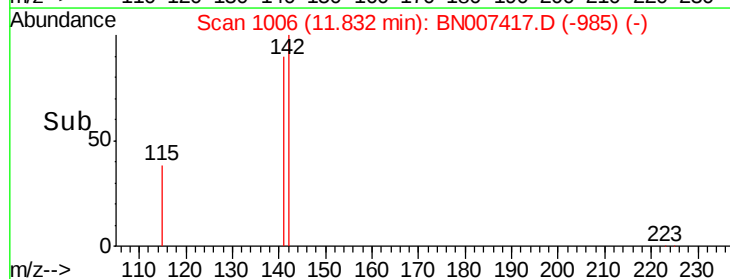
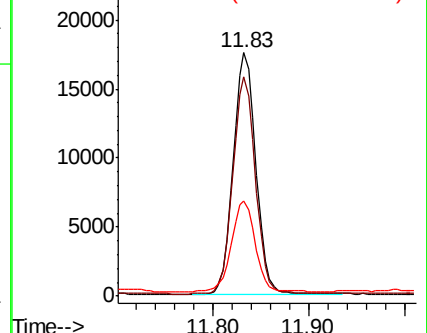
115 39.3 35.2 52.8



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

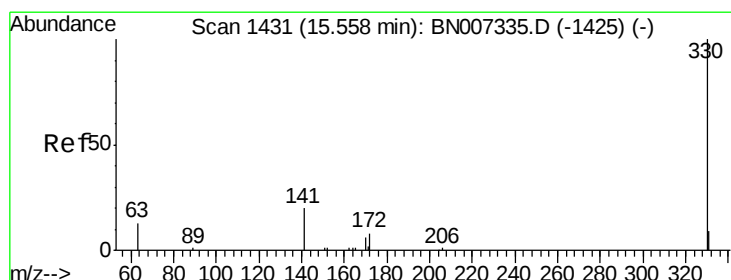
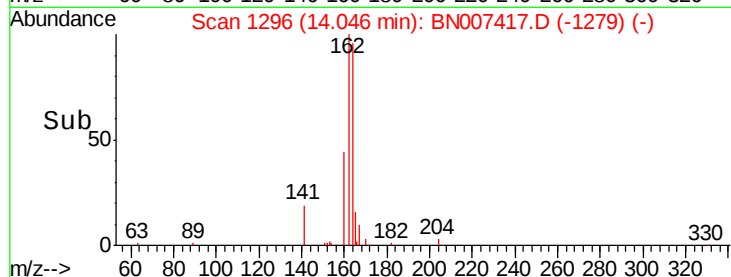
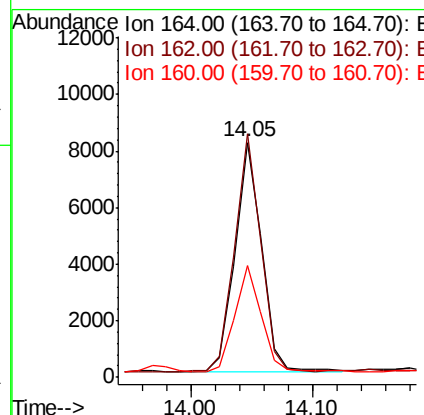
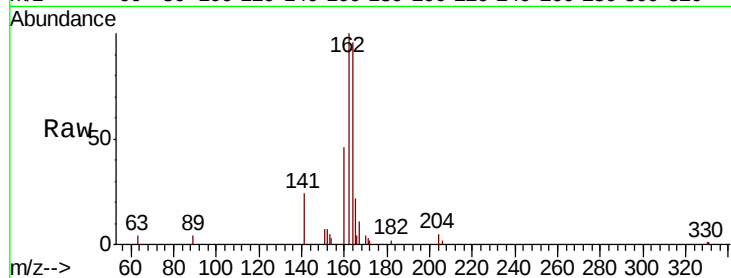




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.05 min Scan# 1296  
Delta R.T. -0.01 min  
Lab File: BN007417.D  
Acq: 26 Aug 2019 19:37

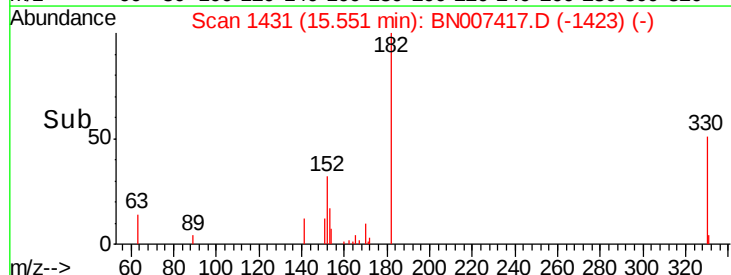
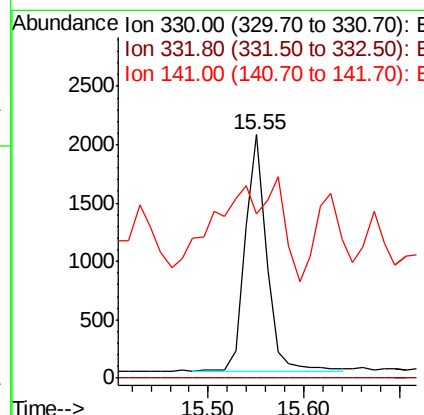
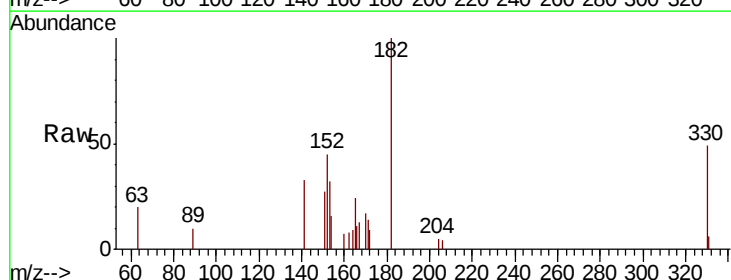
Instrument :  
BNA\_N  
ClientSampleId :  
S602-M-1.0-1.5-082319MSD

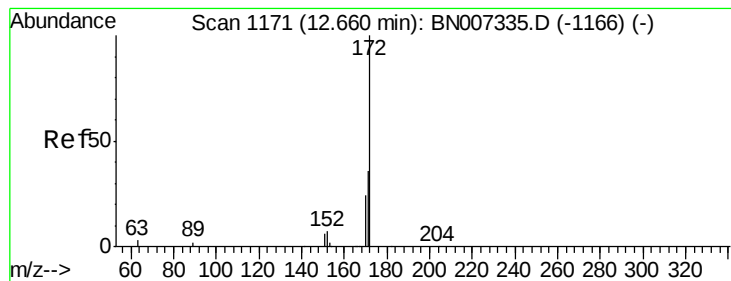
Tgt Ion:164 Resp: 12289  
Ion Ratio Lower Upper  
164 100  
162 103.7 83.5 125.3  
160 47.5 38.2 57.4



#14  
2,4,6-Tribromophenol  
Concen: 0.491 ng  
RT: 15.55 min Scan# 1431  
Delta R.T. -0.01 min  
Lab File: BN007417.D  
Acq: 26 Aug 2019 19:37

Tgt Ion:330 Resp: 3156  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 0.0 26.9 40.3#





#15

2-Fluorobiphenyl

Concen: 0.385 ng

RT: 12.66 min Scan# 1172

Delta R.T. 0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

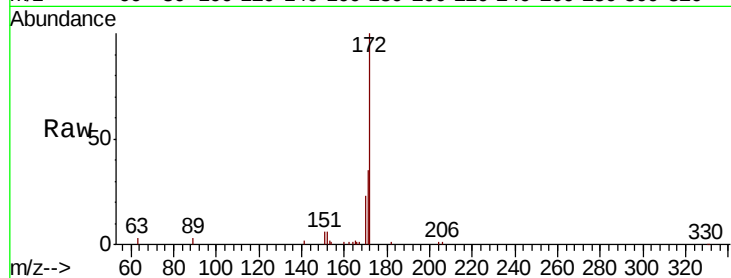
Tgt Ion:172 Resp: 19098

Ion Ratio Lower Upper

172 100

171 34.9 30.3 45.5

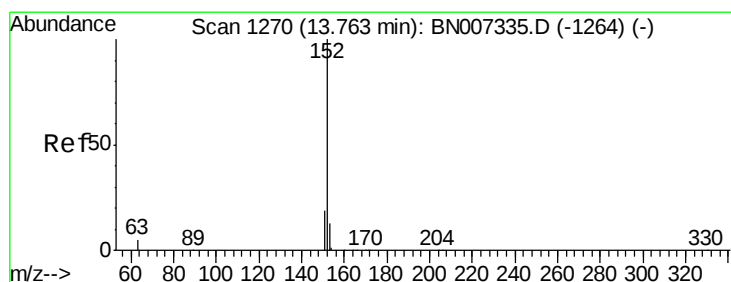
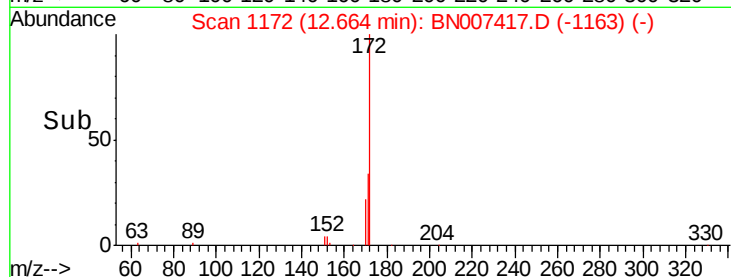
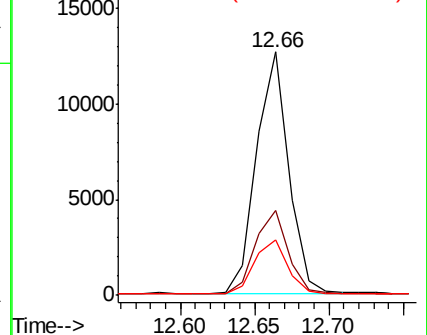
170 23.0 20.7 31.1



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



#16

Acenaphthylene

Concen: 0.586 ng

RT: 13.76 min Scan# 1270

Delta R.T. -0.01 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

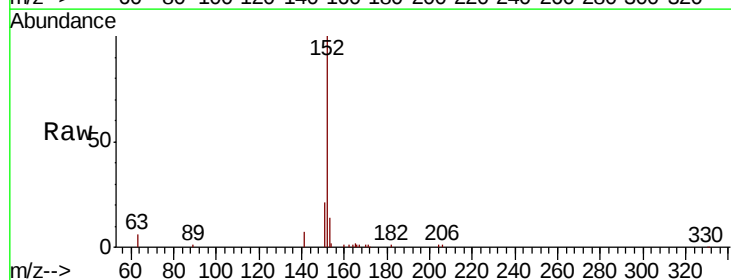
Tgt Ion:152 Resp: 42605

Ion Ratio Lower Upper

152 100

151 22.4 16.1 24.1

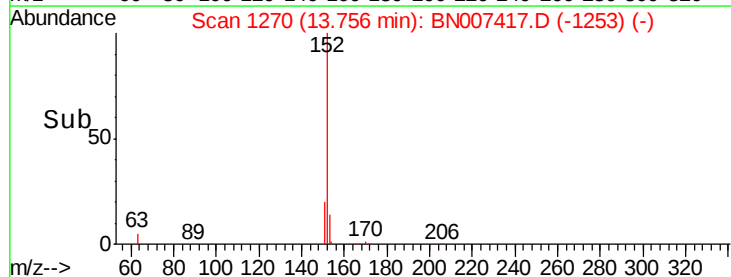
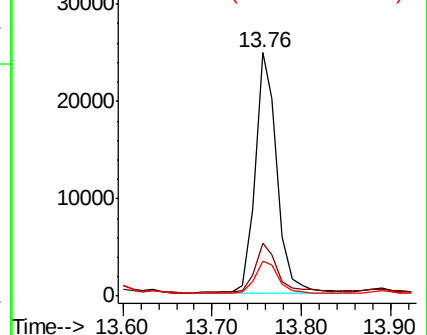
153 15.2 10.6 15.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.989 ng

RT: 14.11 min Scan# 1302

Delta R.T. 0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

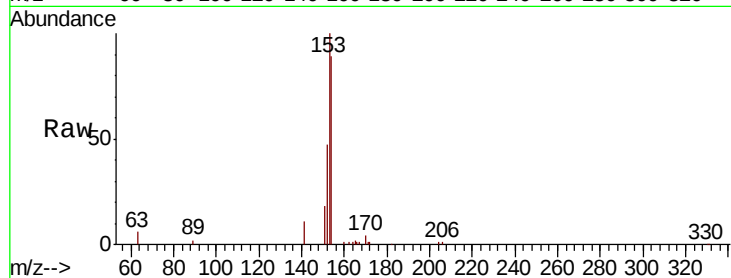
Tgt Ion:154 Resp: 42082

Ion Ratio Lower Upper

154 100

153 114.4 92.8 139.2

152 54.3 43.8 65.8

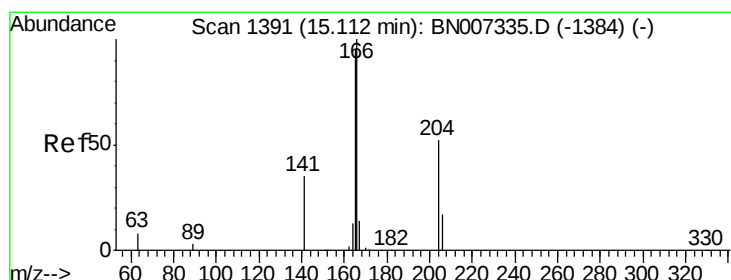
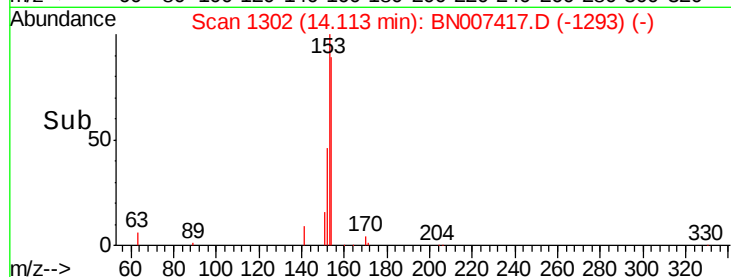
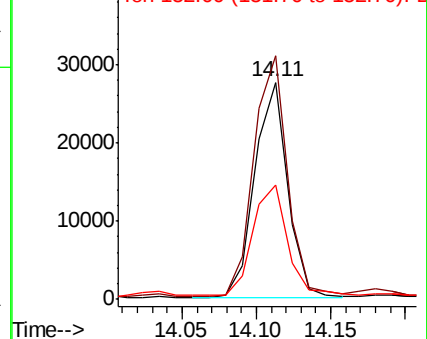


Abundance

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: 0.966 ng

RT: 15.10 min Scan# 1391

Delta R.T. -0.01 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

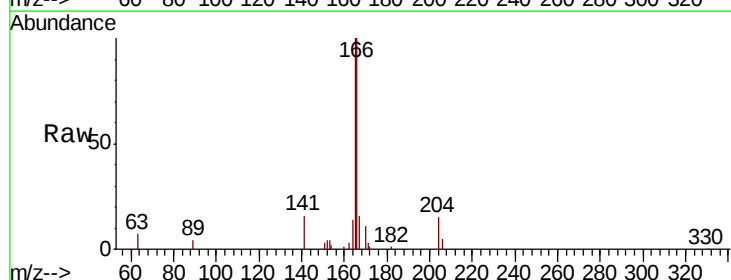
Tgt Ion:166 Resp: 51991

Ion Ratio Lower Upper

166 100

165 101.7 79.0 118.4

167 15.3 10.6 15.8

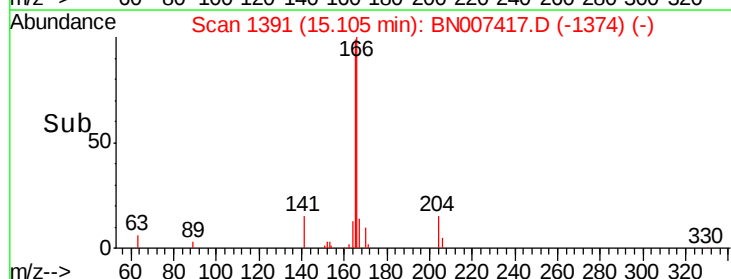
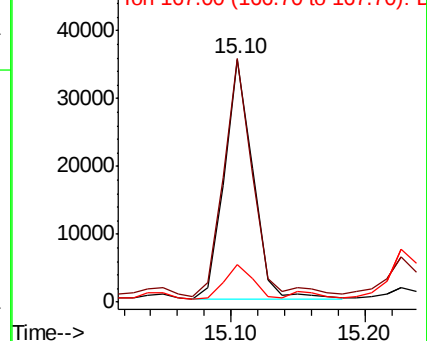


Abundance

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: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

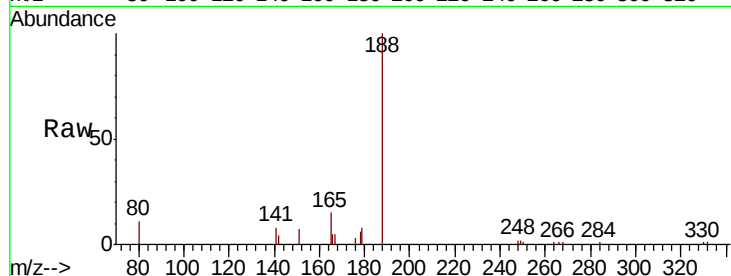
Tgt Ion:188 Resp: 22911

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

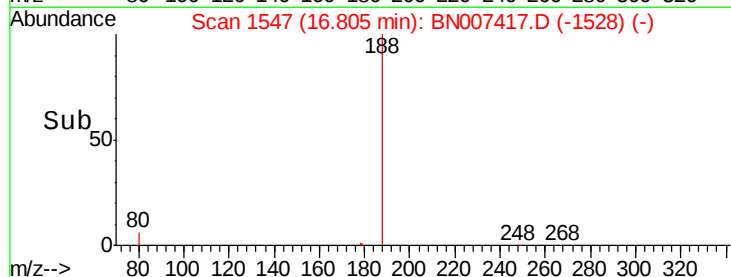
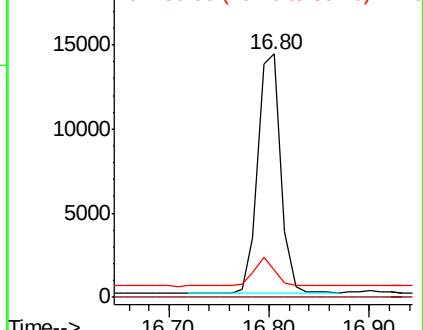
80 11.2 11.8 17.8#



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: 0.501 ng

RT: 16.01 min Scan# 1472

Delta R.T. -0.01 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

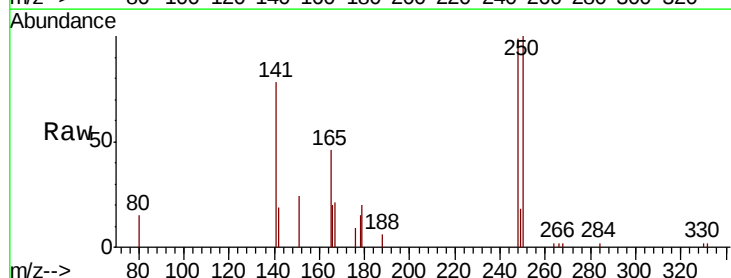
Tgt Ion:248 Resp: 4525

Ion Ratio Lower Upper

248 100

250 101.0 85.0 127.6

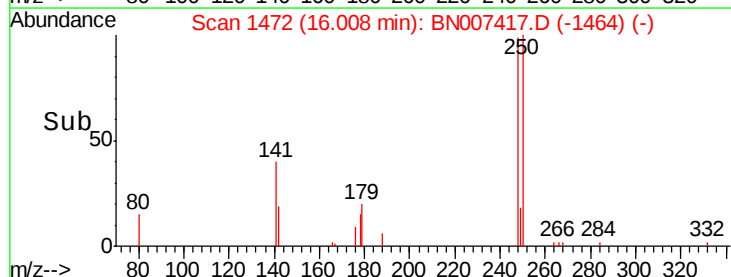
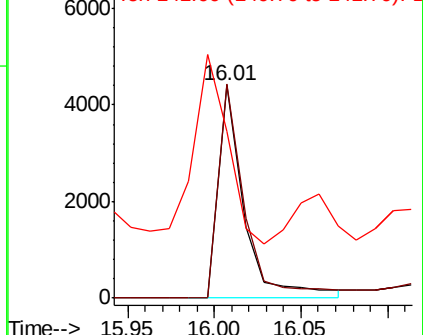
141 78.8 51.7 77.5#



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: 0.458 ng

RT: 16.11 min Scan# 1482

Delta R.T. -0.01 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

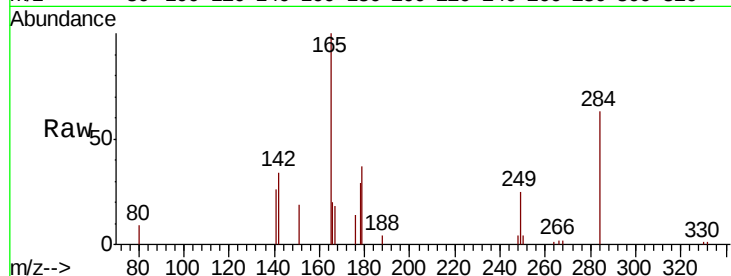
Instrument :

BNA\_N

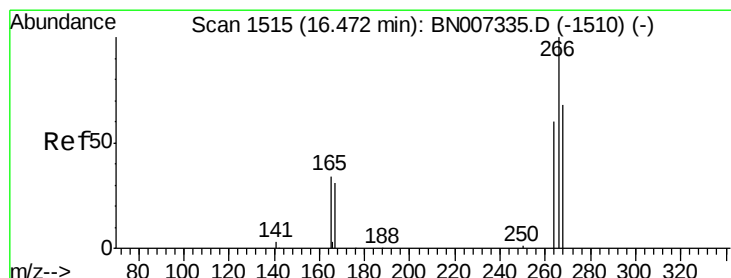
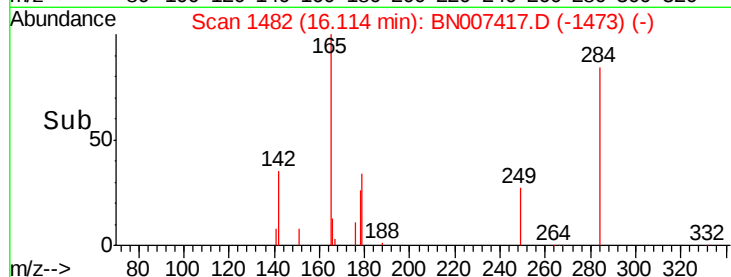
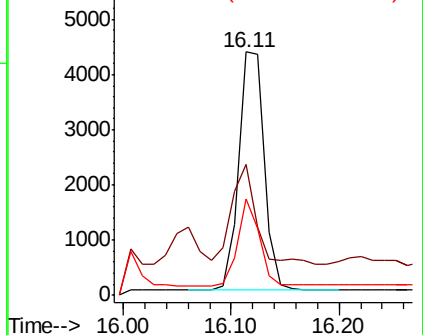
ClientSampleId :

S602-M-1.0-1.5-082319MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 284   | Resp: | 7027  |
| Ion      | Ratio | Lower | Upper |
| 284      | 100   |       |       |
| 142      | 39.8  | 29.0  | 43.6  |
| 249      | 31.4  | 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: 1.018 ng

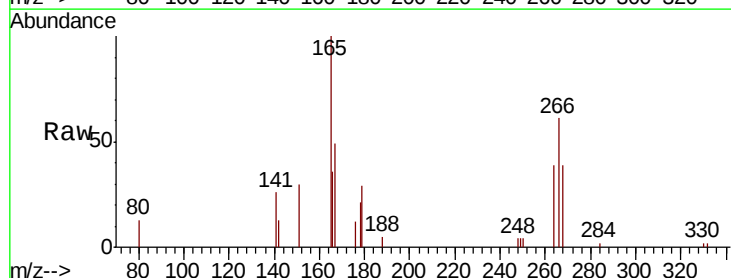
RT: 16.46 min Scan# 1515

Delta R.T. -0.01 min

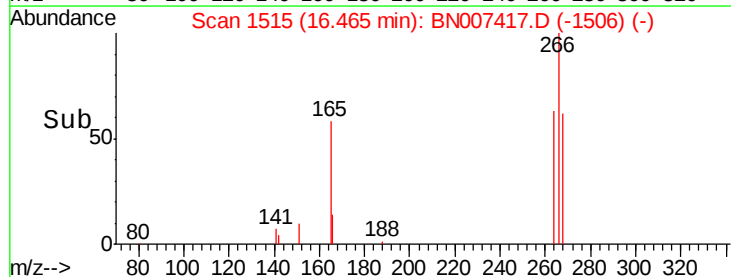
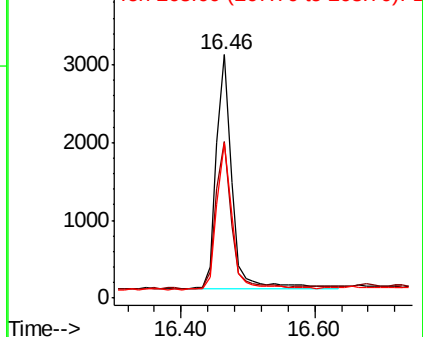
Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 266   | Resp: | 4857   |
| Ion      | Ratio | Lower | Upper  |
| 266      | 100   |       |        |
| 264      | 64.5  | 57.8  | 86.8   |
| 268      | 63.9  | 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: 5.891 ng

RT: 16.84 min Scan# 1550

Delta R.T. -0.01 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

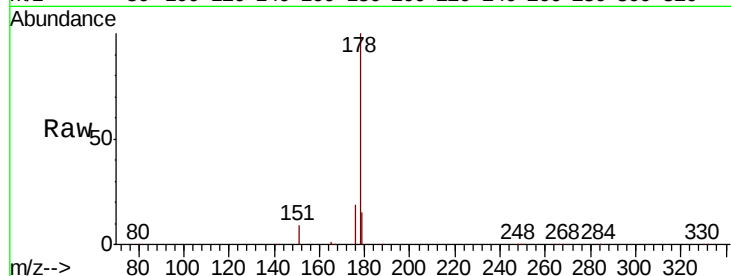
Tgt Ion:178 Resp: 406011

Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

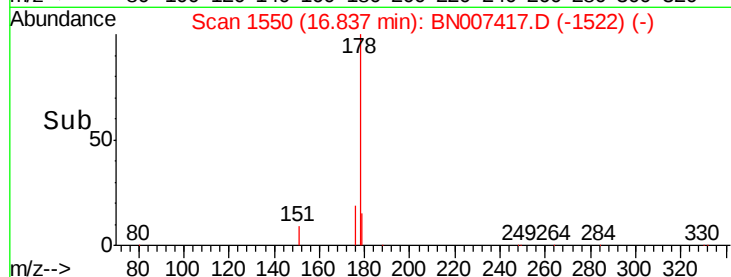
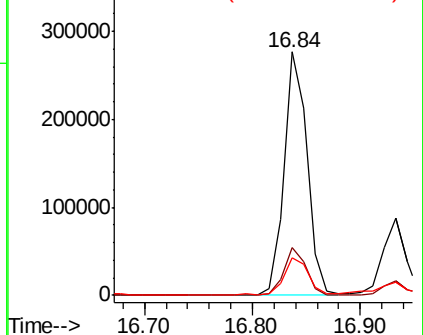
179 16.0 12.6 19.0



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: 1.721 ng

RT: 16.93 min Scan# 1559

Delta R.T. 0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

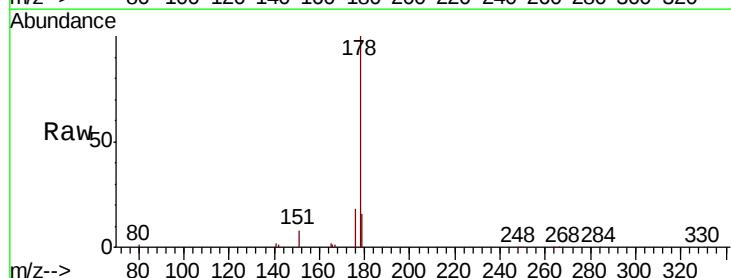
Tgt Ion:178 Resp: 119304

Ion Ratio Lower Upper

178 100

176 18.4 14.9 22.3

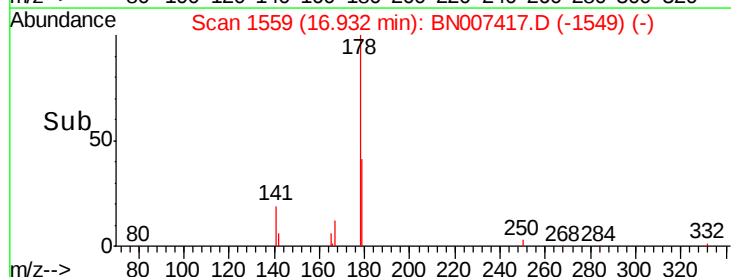
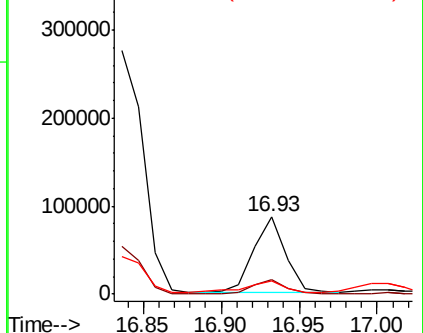
179 18.7 12.4 18.6#

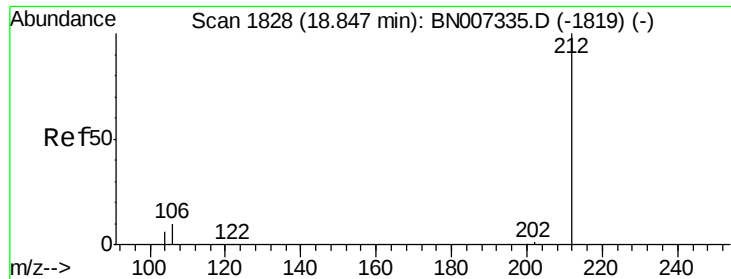


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.417 ng

RT: 18.84 min Scan# 1829

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

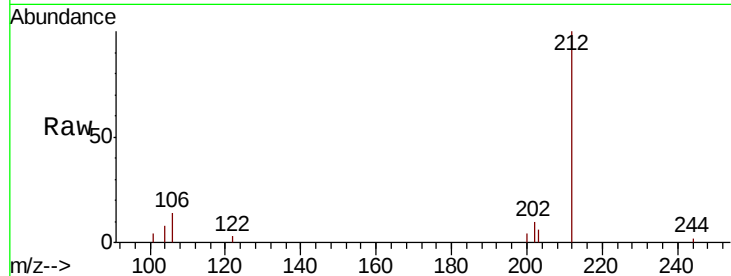
Tgt Ion:212 Resp: 30749

Ion Ratio Lower Upper

212 100

106 11.9 9.0 13.4

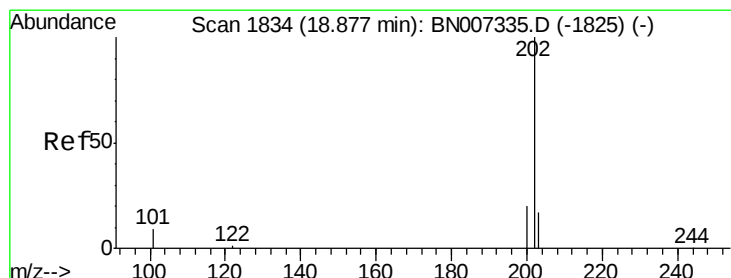
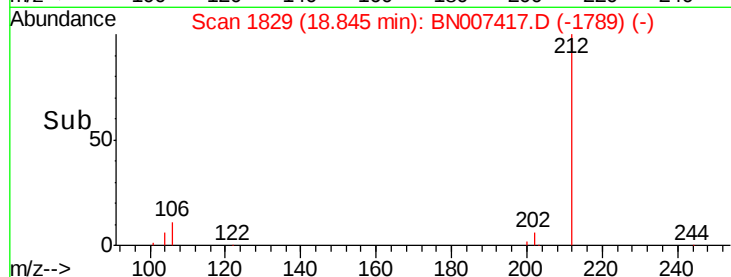
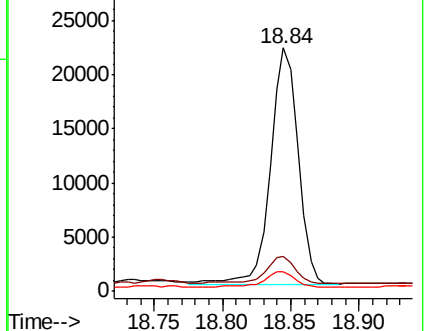
104 7.5 5.4 8.2



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



#26

Fluoranthene

Concen: 13.349 ng

RT: 18.87 min Scan# 1835

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

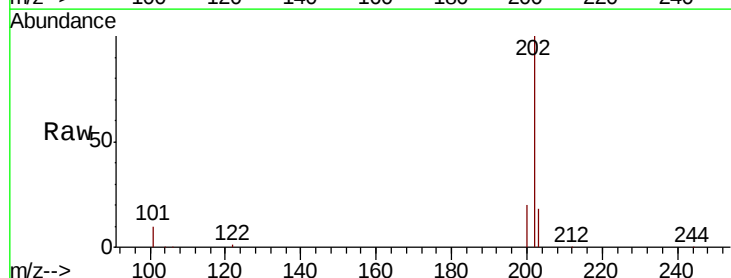
Tgt Ion:202 Resp: 1181165

Ion Ratio Lower Upper

202 100

101 9.8 7.7 11.5

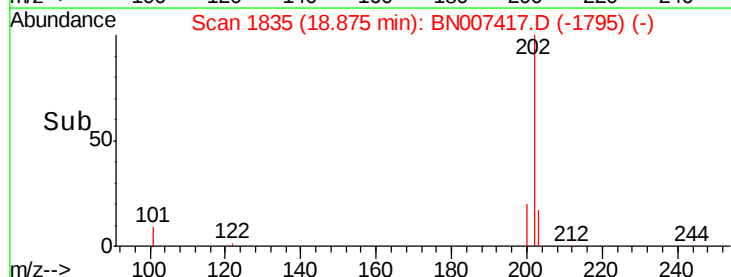
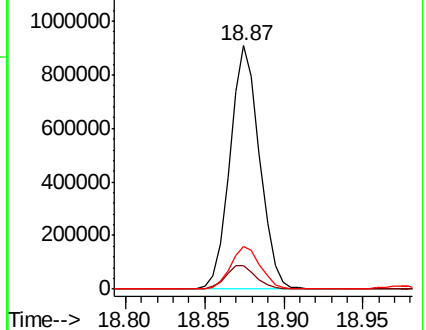
203 17.5 13.7 20.5



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

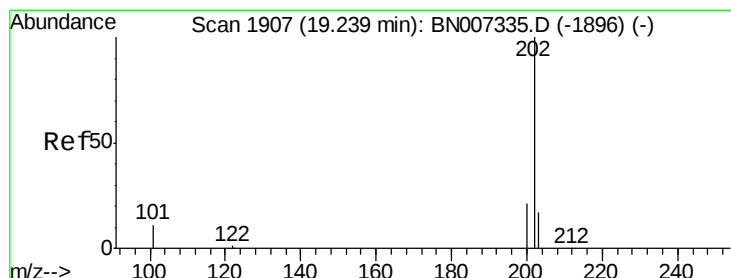
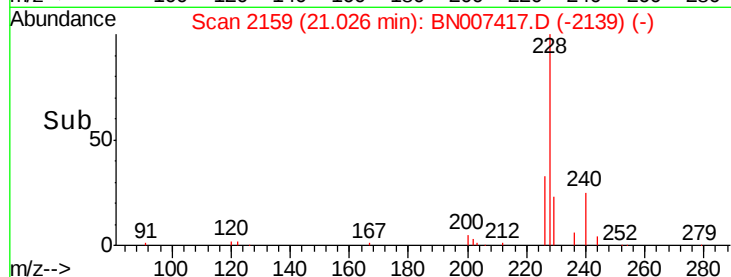
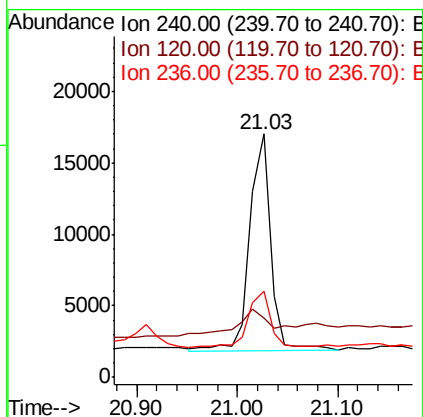
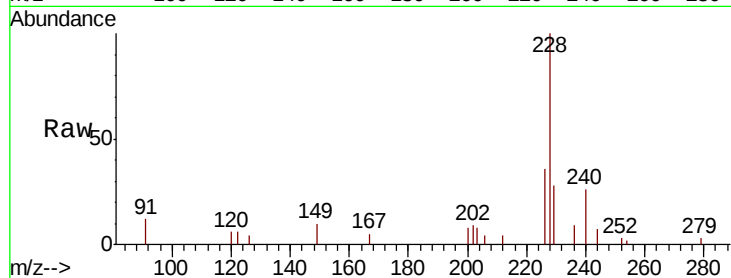




#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.03 min Scan# 2159  
Delta R.T. 0.01 min  
Lab File: BN007417.D  
Acq: 26 Aug 2019 19:37

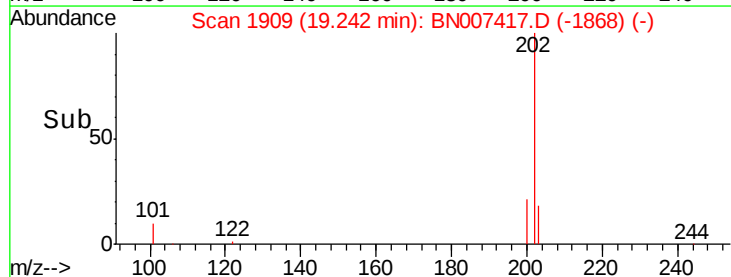
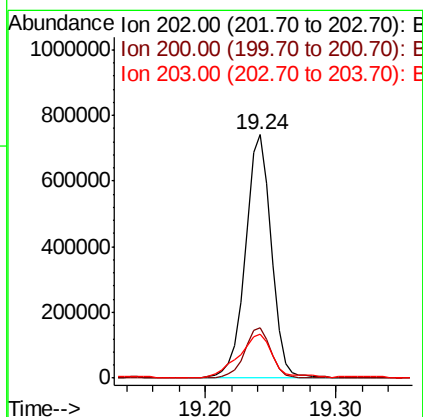
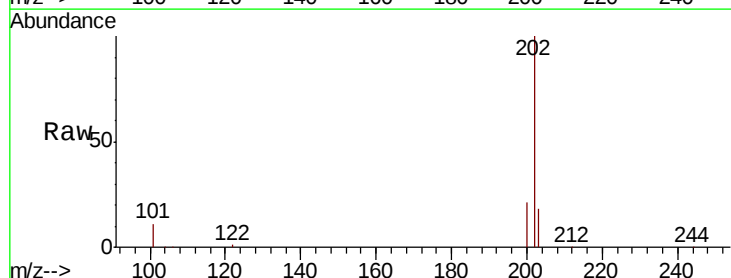
Instrument :  
BNA\_N  
ClientSampleId :  
S602-M-1.0-1.5-082319MSD

Tgt Ion: 240 Resp: 21985  
Ion Ratio Lower Upper  
240 100  
120 24.2 9.6 14.4#  
236 35.5 22.2 33.2#



#28  
Pyrene  
Concen: 11.607 ng  
RT: 19.24 min Scan# 1909  
Delta R.T. 0.00 min  
Lab File: BN007417.D  
Acq: 26 Aug 2019 19:37

Tgt Ion: 202 Resp: 1026500  
Ion Ratio Lower Upper  
202 100  
200 20.8 16.6 25.0  
203 23.5 14.2 21.4#





#29

Terphenyl-d14

Concen: 0.382 ng

RT: 19.47 min Scan# 1954

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

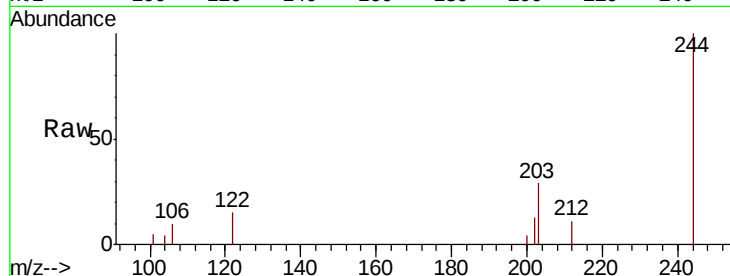
Tgt Ion:244 Resp: 21994

Ion Ratio Lower Upper

244 100

212 11.4 7.0 10.6#

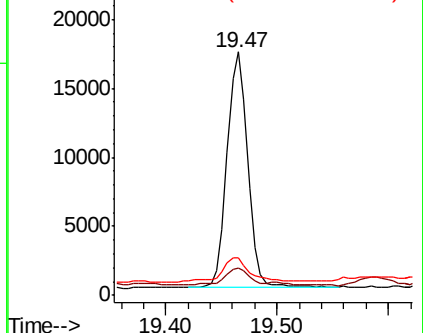
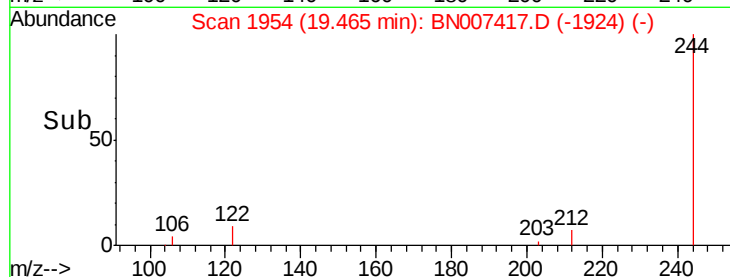
122 15.2 9.6 14.4#



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



#30

Benzo(a)anthracene

Concen: 7.263 ng

RT: 21.00 min Scan# 2157

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

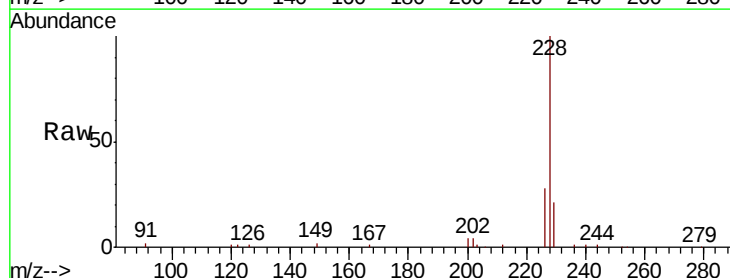
Tgt Ion:228 Resp: 627054

Ion Ratio Lower Upper

228 100

226 27.9 21.3 31.9

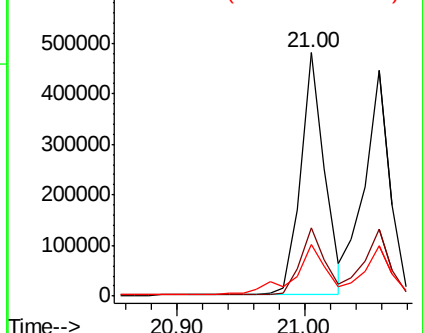
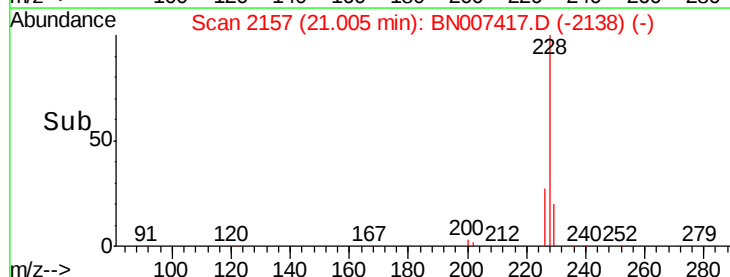
229 21.0 16.1 24.1

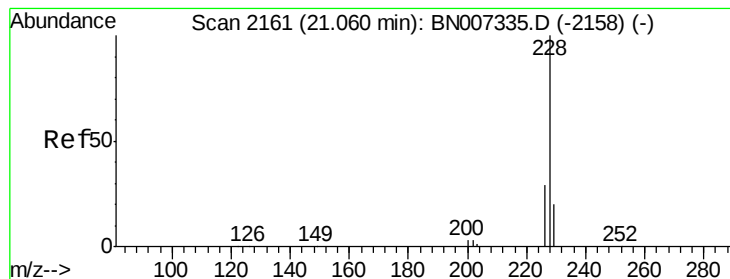


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 7.335 ng

RT: 21.06 min Scan# 2162

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

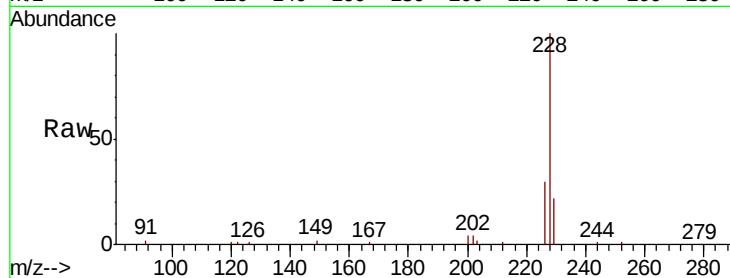
Tgt Ion:228 Resp: 611292

Ion Ratio Lower Upper

228 100

226 30.0 23.5 35.3

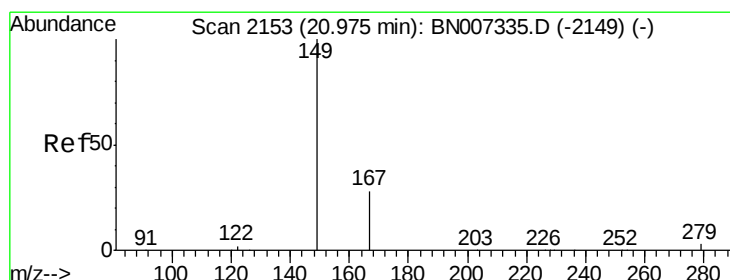
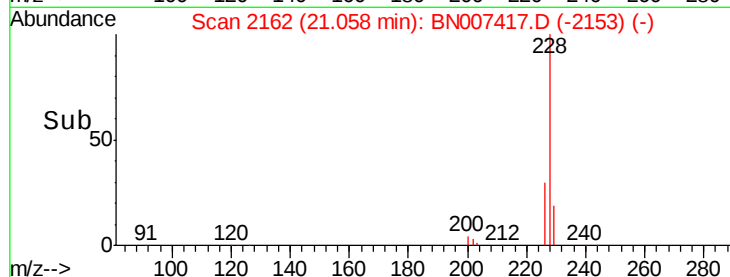
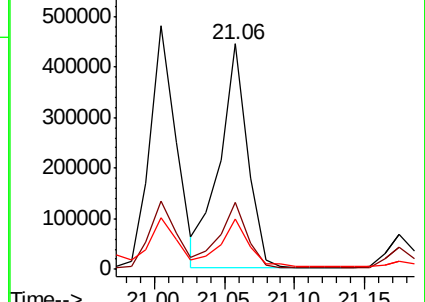
229 22.1 16.6 24.8



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: 0.654 ng

RT: 20.97 min Scan# 2154

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

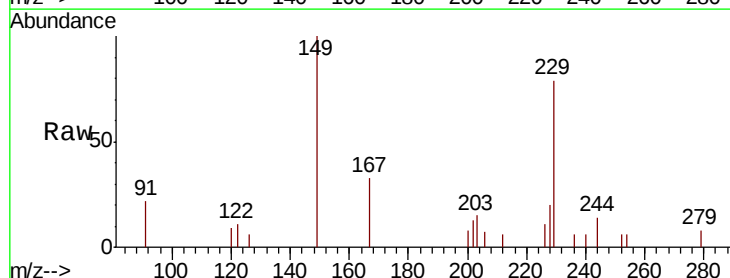
Tgt Ion:149 Resp: 37586

Ion Ratio Lower Upper

149 100

167 29.2 22.8 34.2

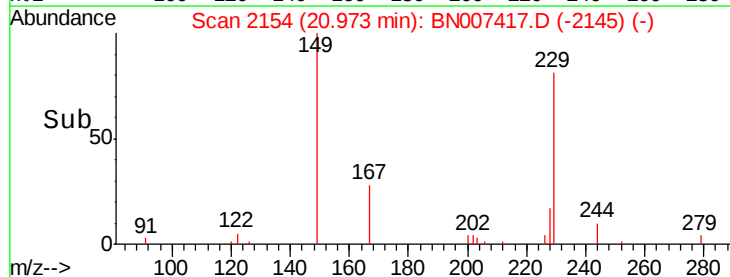
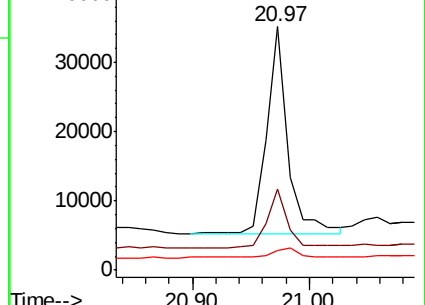
279 5.2 3.5 5.3



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: 5.046 ng

RT: 25.20 min Scan# 3105

Delta R.T. 0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

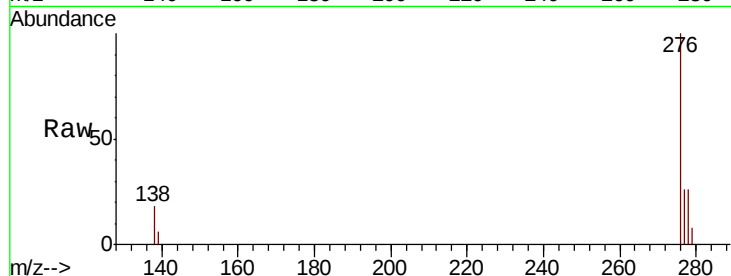
Tgt Ion: 276 Resp: 506582

Ion Ratio Lower Upper

276 100

138 17.0 15.1 22.7

277 24.6 19.7 29.5

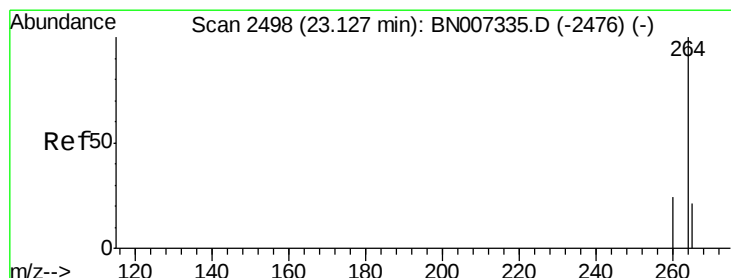
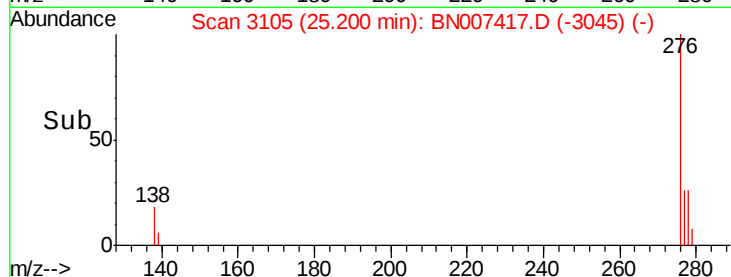
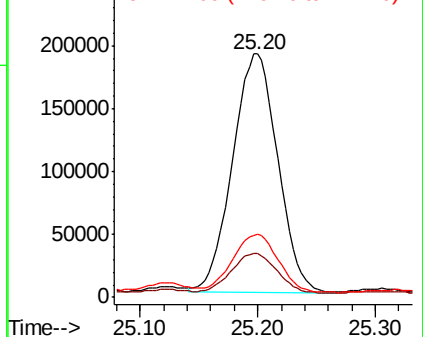


Abundance

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. 0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

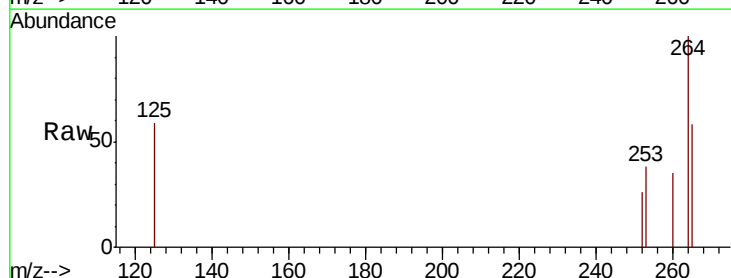
Tgt Ion: 264 Resp: 25449

Ion Ratio Lower Upper

264 100

260 35.5 19.7 29.5#

265 57.6 29.9 44.9#

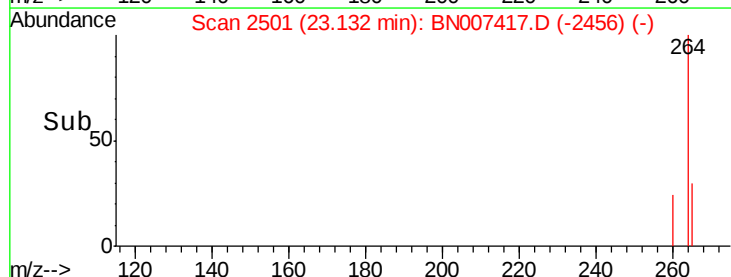
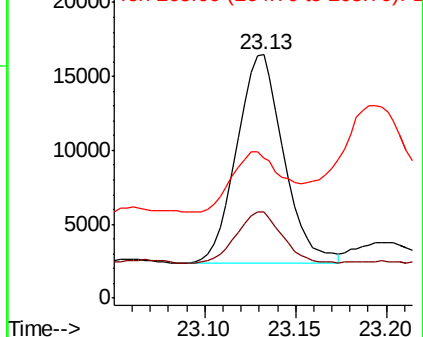


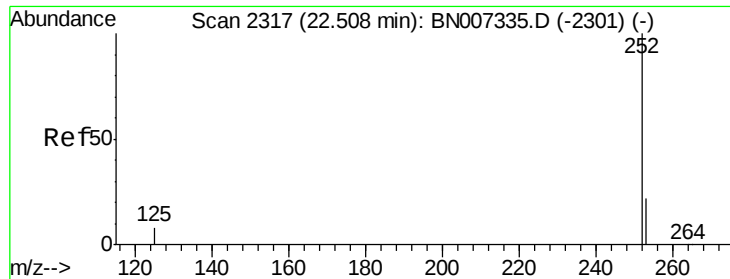
Abundance

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: 10.128 ng

RT: 22.51 min Scan# 2320

Delta R.T. 0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

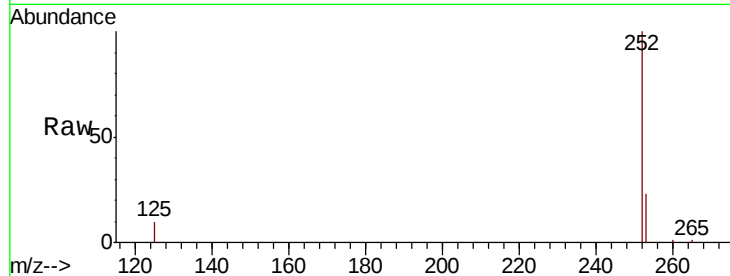
Tgt Ion:252 Resp: 933898

Ion Ratio Lower Upper

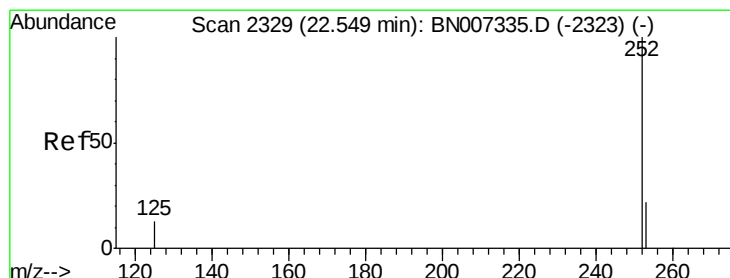
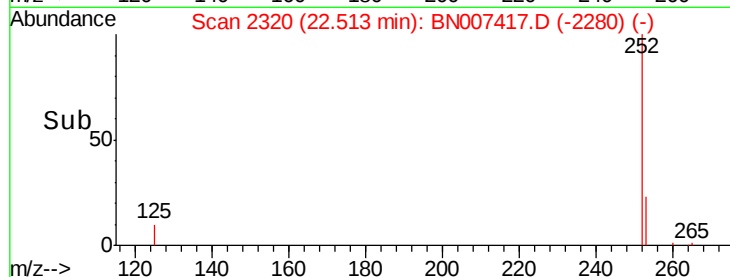
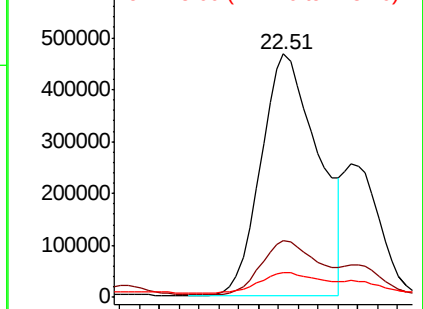
252 100

253 23.2 19.2 28.8

125 10.3 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: 10.248 ng

RT: 22.51 min Scan# 2320

Delta R.T. -0.04 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

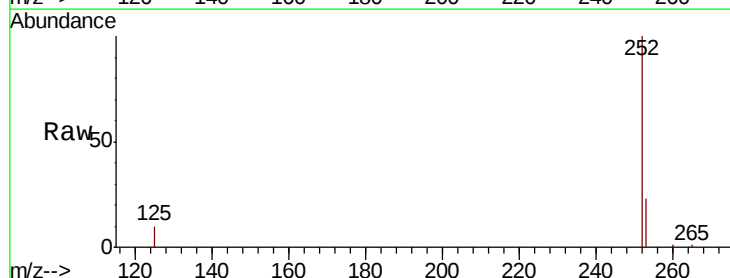
Tgt Ion:252 Resp: 933898

Ion Ratio Lower Upper

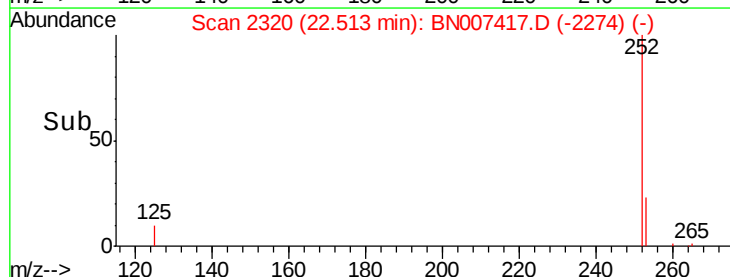
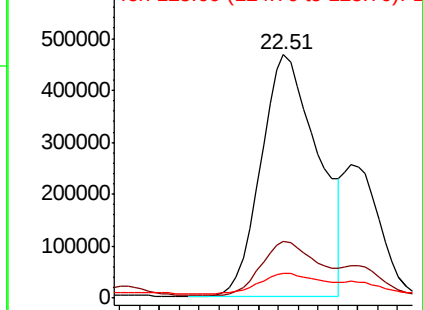
252 100

253 23.2 19.4 29.2

125 10.3 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: 4.929 ng

RT: 22.95 min Scan# 2448

Delta R.T. -0.09 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD

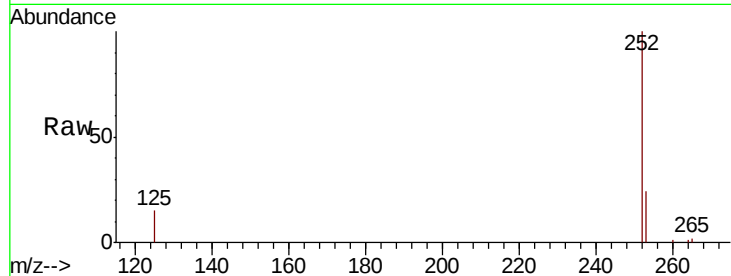
Tgt Ion: 252 Resp: 432536

Ion Ratio Lower Upper

252 100

253 24.2 19.5 29.3

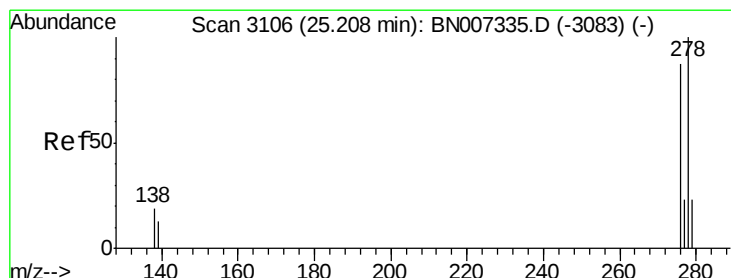
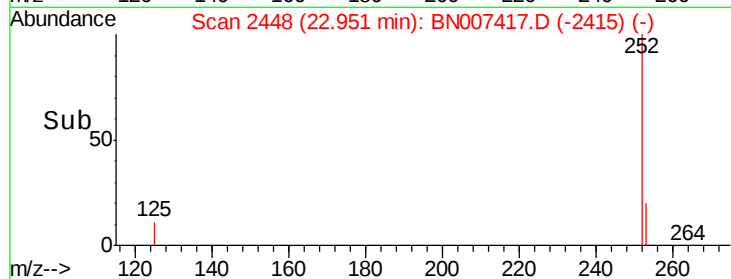
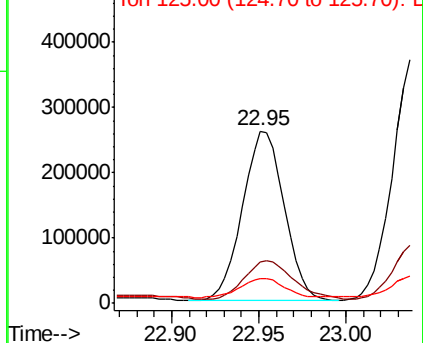
125 14.7 12.1 18.1



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: 1.751 ng

RT: 25.21 min Scan# 3107

Delta R.T. -0.00 min

Lab File: BN007417.D

Acq: 26 Aug 2019 19:37

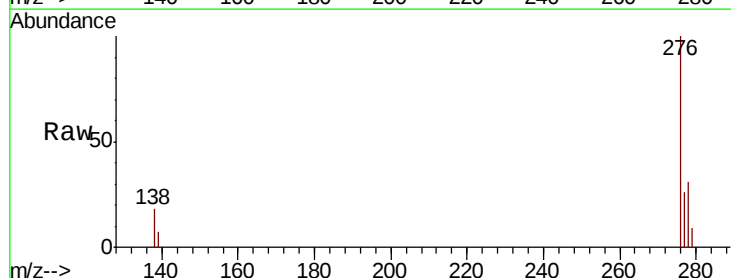
Tgt Ion: 278 Resp: 153331

Ion Ratio Lower Upper

278 100

139 22.3 13.7 20.5#

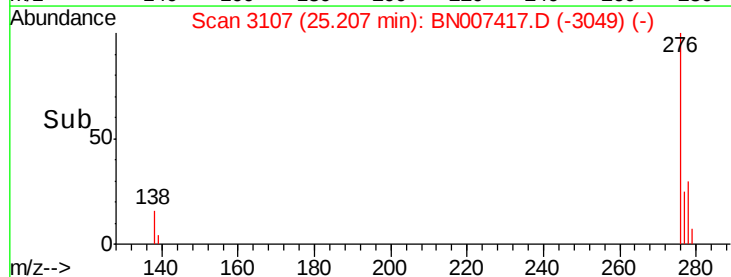
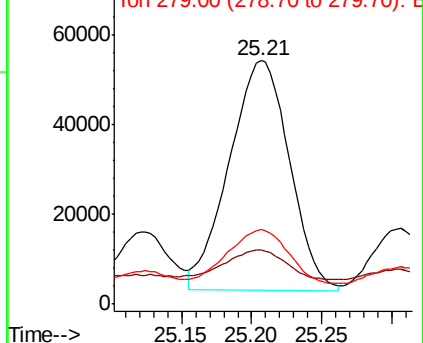
279 30.5 20.2 30.4#



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(g,h,i)perylene

Concen: 5.639 ng

RT: 25.83 min Scan# 3289

Delta R.T. 0.01 min

Lab File: BN007417.D

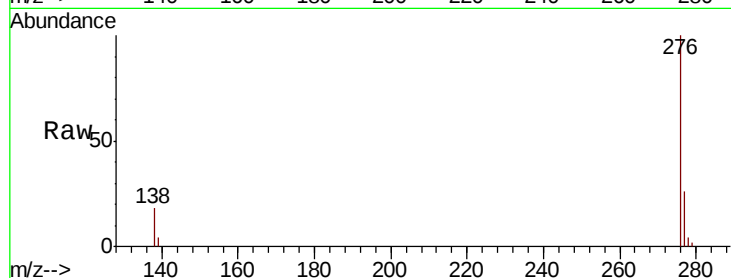
Acq: 26 Aug 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

S602-M-1.0-1.5-082319MSD



Tgt Ion: 276 Resp: 491882

Ion Ratio Lower Upper

276 100

277 25.7 19.6 29.4

138 18.0 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

