

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN070119\  
 Data File : BN006666.D  
 Acq On : 01 Jul 2019 18:12  
 Operator : HP/JU  
 Sample : K3504-02  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-001-B199-062019

Quant Time: Jul 02 05:06:22 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN062819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 28 13:47:56 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 4338     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.40 | 136  | 16818    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.27 | 164  | 9458     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.03 | 188  | 19939    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.26 | 240  | 18252    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.49 | 264  | 20501    | 0.40 | ng    | -0.04    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.24  | 112  | 2802     | 0.26 | ng    | 0.00     |
| 5) Phenol-d6                | 6.82  | 99   | 3766     | 0.27 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.81  | 82   | 2370     | 0.21 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10 | 12.00 | 152  | 5975     | 0.23 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.79 | 330  | 1051     | 0.24 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.88 | 172  | 8003     | 0.23 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.08 | 212  | 12398    | 0.21 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.68 | 244  | 8496     | 0.22 | ng    | 0.00     |

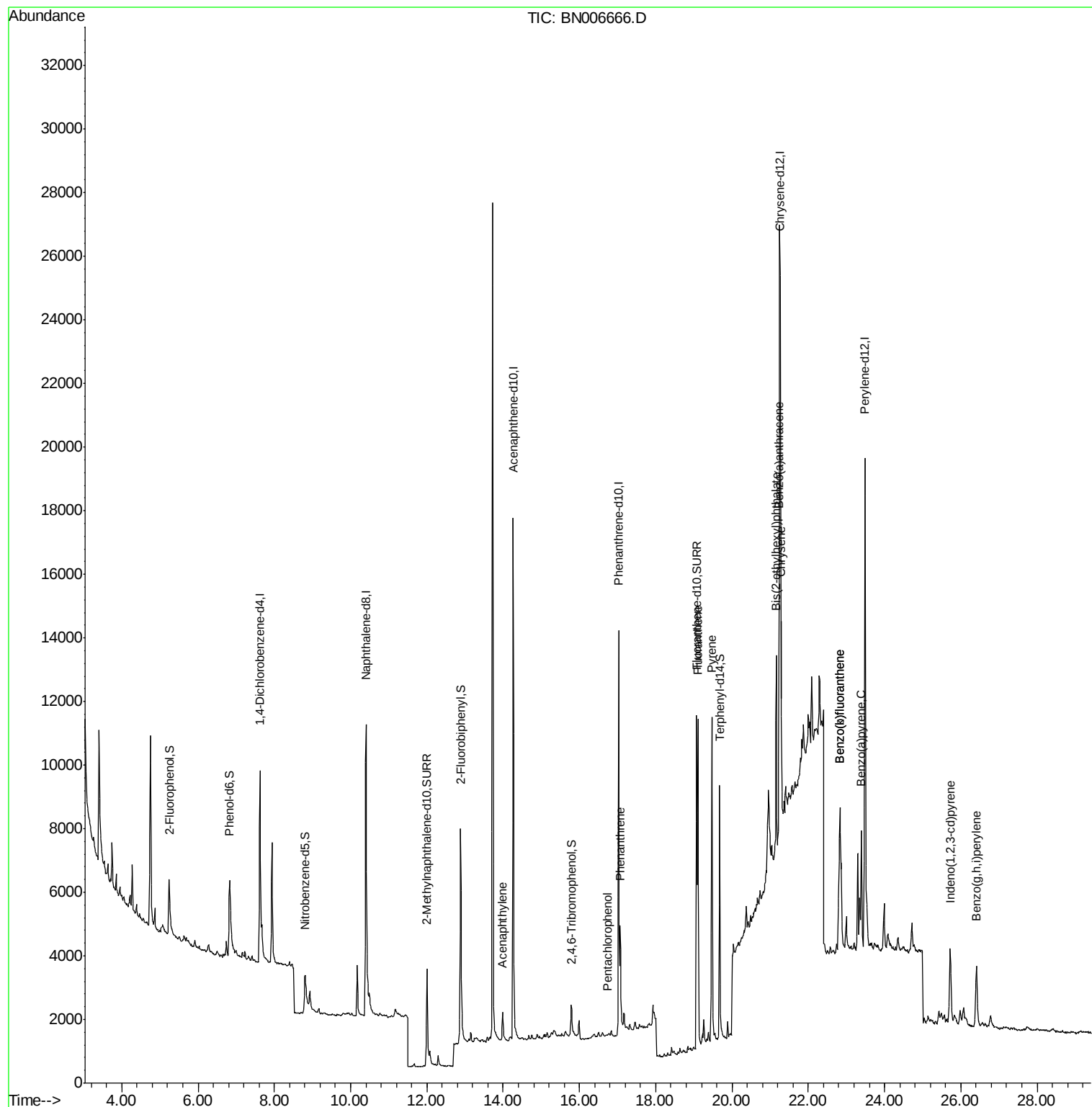
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 16) Acenaphthylene             | 13.99 | 152  | 1433     | 0.032 | ng    | 100    |
| 22) Pentachlorophenol          | 16.74 | 266  | 45       | 0.206 | ng    | # 79   |
| 23) Phenanthrene               | 17.07 | 178  | 3522     | 0.062 | ng    | 97     |
| 26) Fluoranthene               | 19.11 | 202  | 9867     | 0.143 | ng    | 98     |
| 28) Pyrene                     | 19.47 | 202  | 9637     | 0.151 | ng    | 96     |
| 30) Benzo(a)anthracene         | 21.24 | 228  | 5572     | 0.093 | ng    | # 85   |
| 31) Chrysene                   | 21.29 | 228  | 6166     | 0.096 | ng    | # 86   |
| 32) Bis(2-ethylhexyl)phthalate | 21.16 | 149  | 5861     | 0.195 | ng    | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 25.72 | 276  | 3779     | 0.058 | ng    | 98     |
| 35) Benzo(b)fluoranthene       | 22.83 | 252  | 8079     | 0.116 | ng    | # 52   |
| 36) Benzo(k)fluoranthene       | 22.83 | 252  | 8079     | 0.109 | ng    | # 51   |
| 37) Benzo(a)pyrene             | 23.39 | 252  | 5105     | 0.078 | ng    | # 46   |
| 39) Benzo(g,h,i)perylene       | 26.41 | 276  | 4024     | 0.071 | ng    | # 69   |

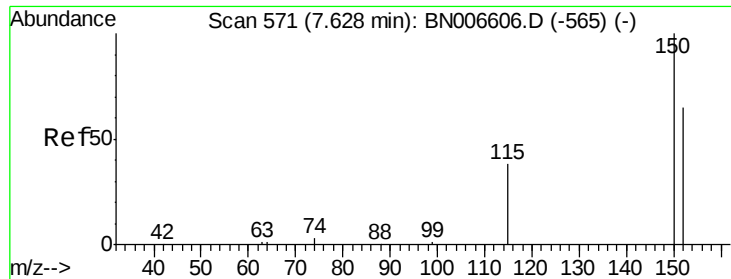
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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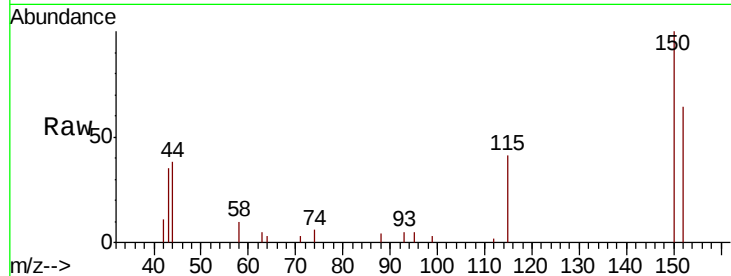


#1

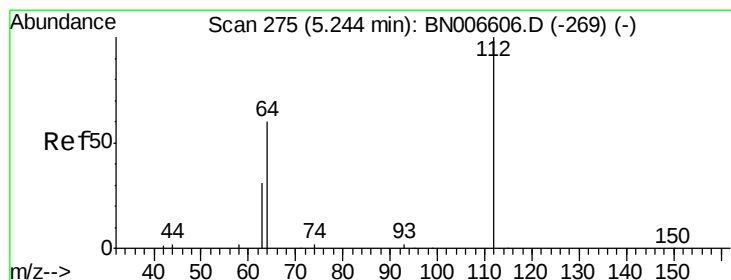
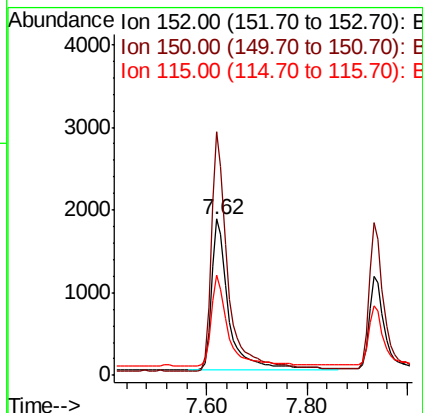
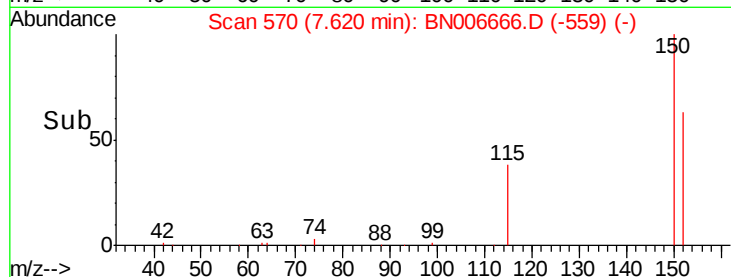
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.62 min Scan# 570  
Delta R.T. -0.01 min  
Lab File: BN006666.D  
Acq: 01 Jul 2019 18:12

Instrument :  
BNA\_N  
ClientSampleId :  
PST-001-B199-062019

Tgt Ion:152 Resp: 4338  
Ion Ratio Lower Upper  
152 100  
150 155.6 122.2 183.2  
115 63.8 50.0 75.0



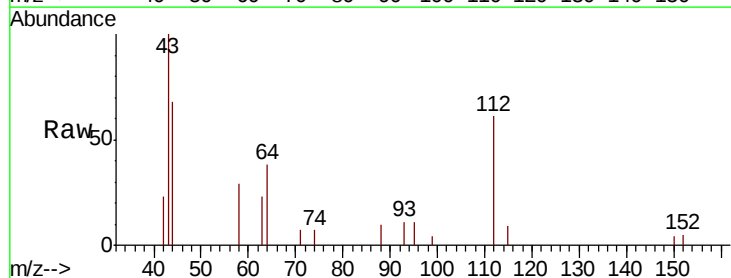
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



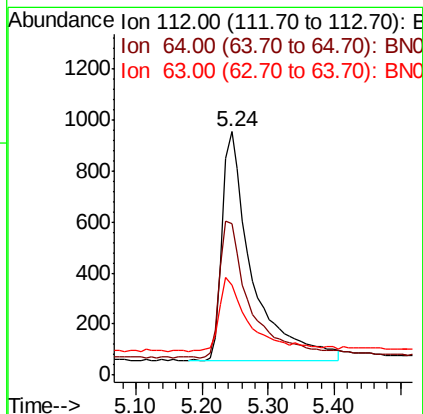
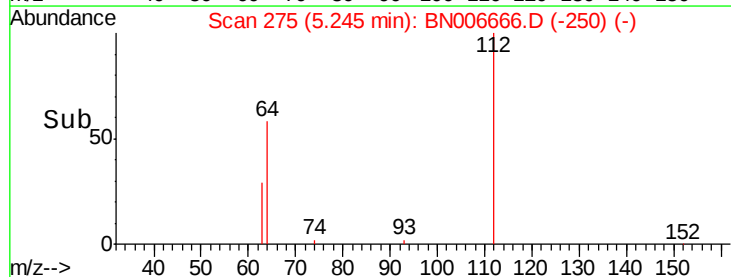
#4

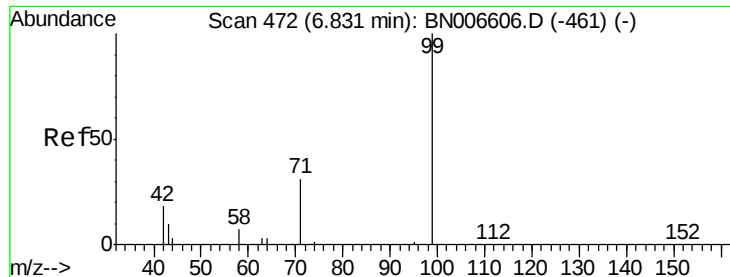
2-Fluorophenol  
Concen: 0.263 ng  
RT: 5.24 min Scan# 275  
Delta R.T. 0.00 min  
Lab File: BN006666.D  
Acq: 01 Jul 2019 18:12

Tgt Ion:112 Resp: 2802  
Ion Ratio Lower Upper  
112 100  
64 61.9 48.9 73.3  
63 32.5 24.3 36.5



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





#5

Phenol-d6

Concen: 0.267 ng

RT: 6.82 min Scan# 471

Delta R.T. -0.01 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

Instrument :

BNA\_N

ClientSampleId :

PST-001-B199-062019

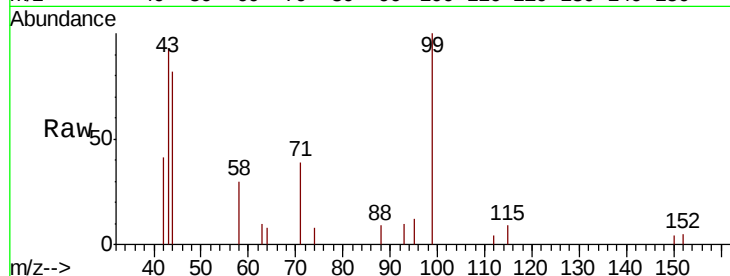
Tgt Ion: 99 Resp: 3766

Ion Ratio Lower Upper

99 100

42 22.1 16.4 24.6

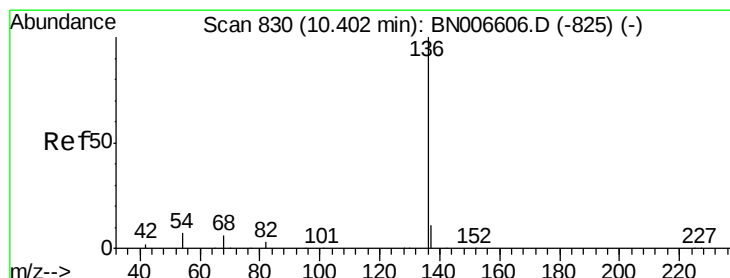
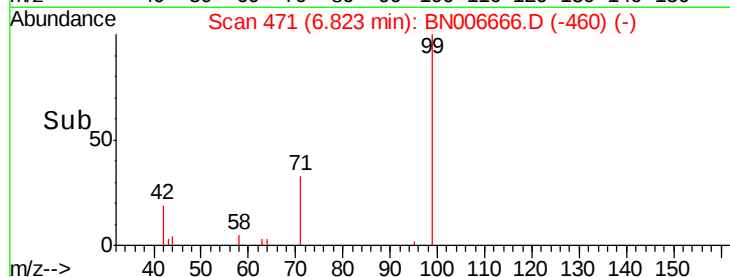
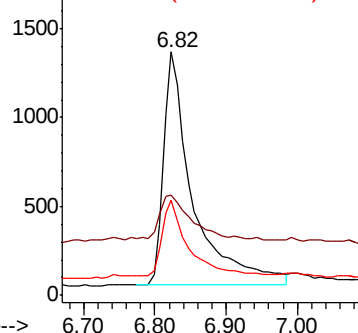
71 29.1 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BN006666.D (-461) (-)

Ion 42.00 (41.70 to 42.70): BN006666.D (-461) (-)

Ion 71.00 (70.70 to 71.70): BN006666.D (-461) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.40 min Scan# 830

Delta R.T. 0.00 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

Tgt Ion: 136 Resp: 16818

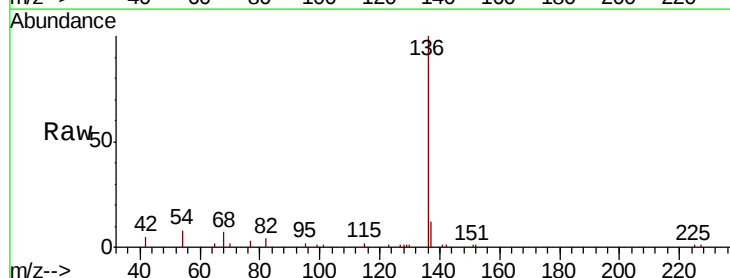
Ion Ratio Lower Upper

136 100

137 11.6 9.3 13.9

54 8.2 6.7 10.1

68 6.6 5.3 7.9

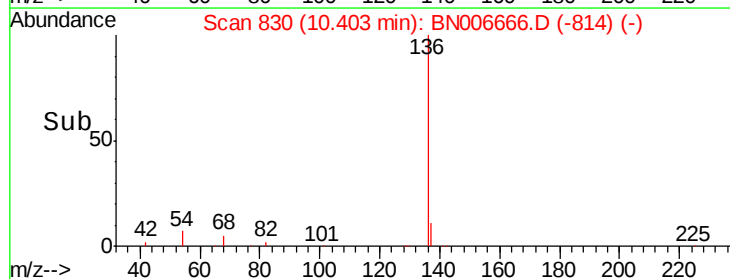
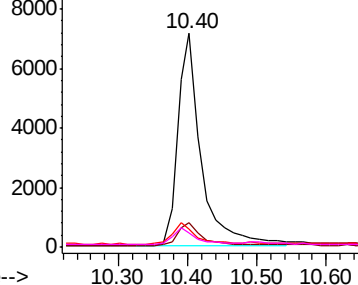


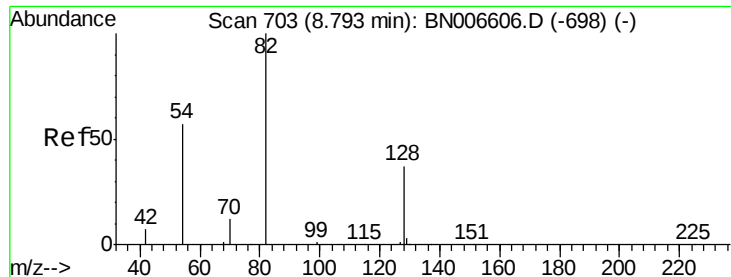
Abundance Ion 136.00 (135.70 to 136.70): BN006666.D (-825) (-)

Ion 137.00 (136.70 to 137.70): BN006666.D (-825) (-)

Ion 54.00 (53.70 to 54.70): BN006666.D (-825) (-)

Ion 68.00 (67.70 to 68.70): BN006666.D (-825) (-)





#8

Nitrobenzene-d5

Concen: 0.210 ng

RT: 8.81 min Scan# 704

Delta R.T. 0.01 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

Instrument :

BNA\_N

ClientSampleId :

PST-001-B199-062019

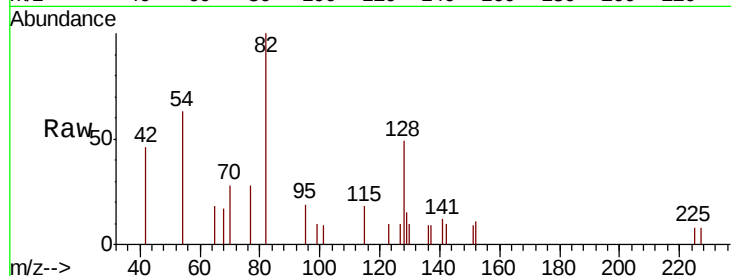
Tgt Ion: 82 Resp: 2370

Ion Ratio Lower Upper

82 100

128 49.0 32.6 49.0#

54 63.1 48.2 72.4

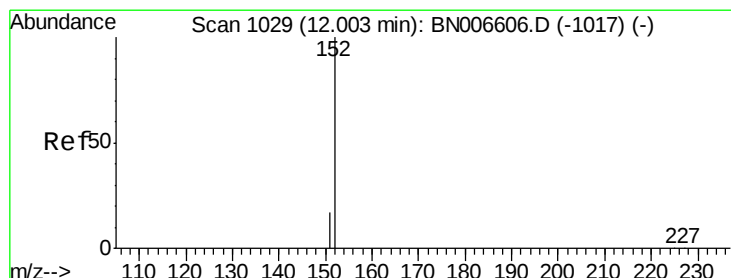
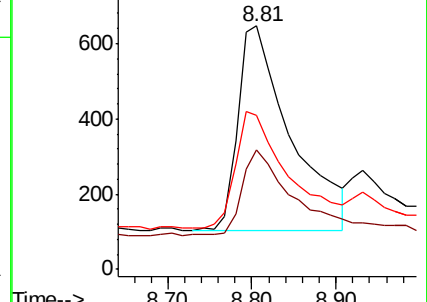
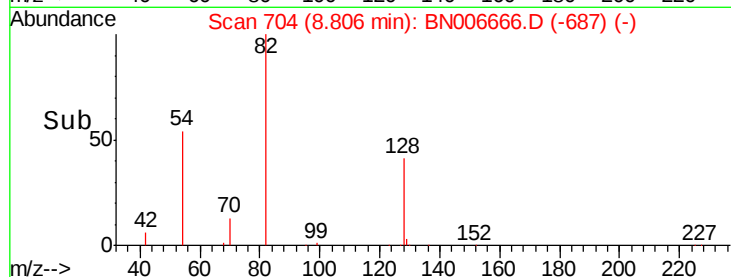


Abundance Ion 82.00 (81.70 to 82.70): BN006666.D (-698) (-)

Ion 128.00 (127.70 to 128.70): BN006666.D (-698) (-)

Ion 54.00 (53.70 to 54.70): BN006666.D (-698) (-)

Time-->



#11

2-Methylnaphthalene-d10

Concen: 0.226 ng

RT: 12.00 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BN006666.D

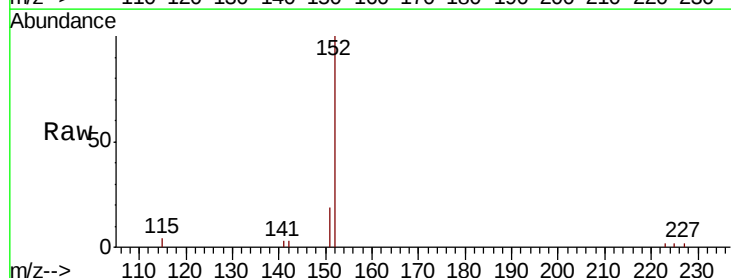
Acq: 01 Jul 2019 18:12

Tgt Ion: 152 Resp: 5975

Ion Ratio Lower Upper

152 100

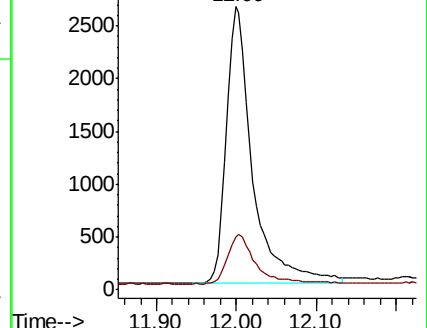
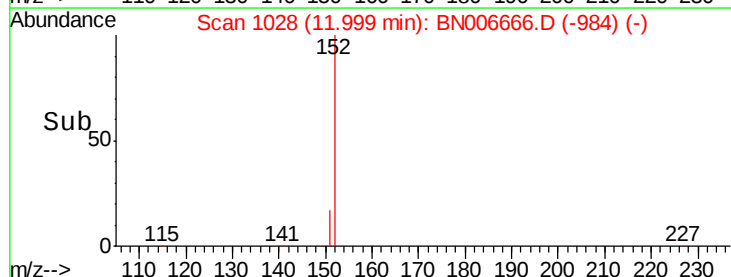
151 19.6 15.0 22.4

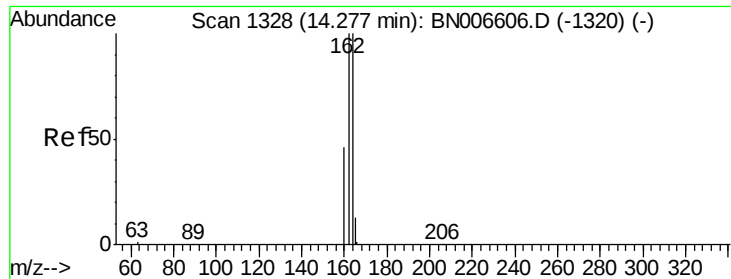


Abundance Ion 152.00 (151.70 to 152.70): BN006666.D (-984) (-)

Ion 151.00 (150.70 to 151.70): BN006666.D (-984) (-)

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.27 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

Instrument :

BNA\_N

ClientSampleId :

PST-001-B199-062019

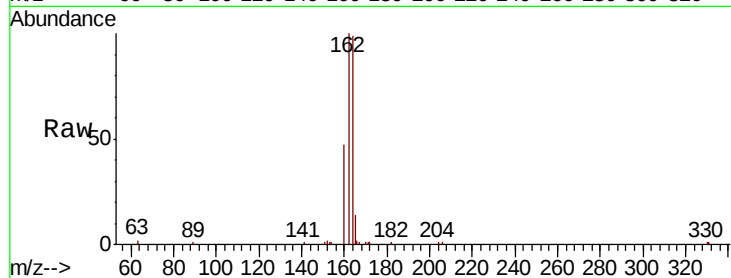
Tgt Ion:164 Resp: 9458

Ion Ratio Lower Upper

164 100

162 101.5 80.0 120.0

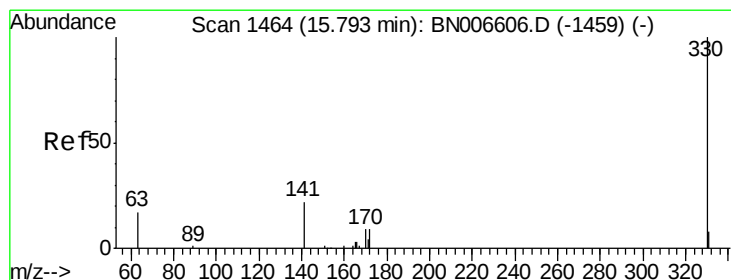
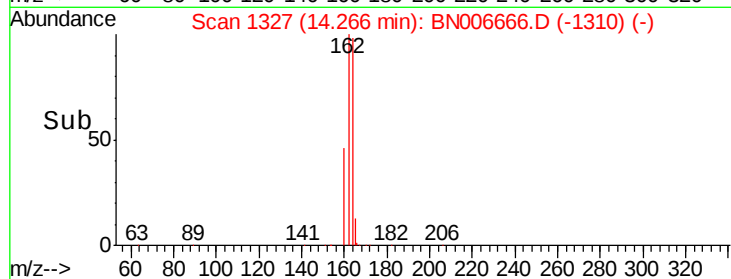
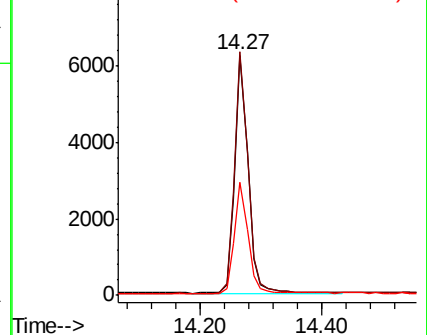
160 47.2 37.0 55.4



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: 0.236 ng

RT: 15.79 min Scan# 1464

Delta R.T. 0.00 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

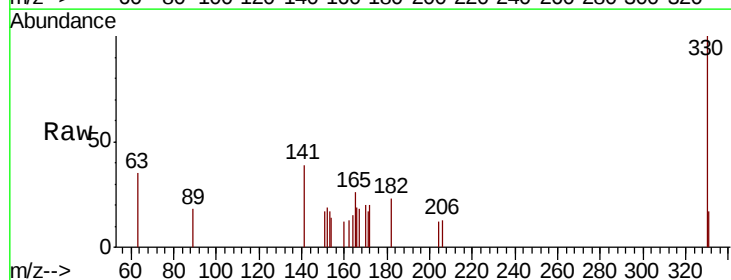
Tgt Ion:330 Resp: 1051

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

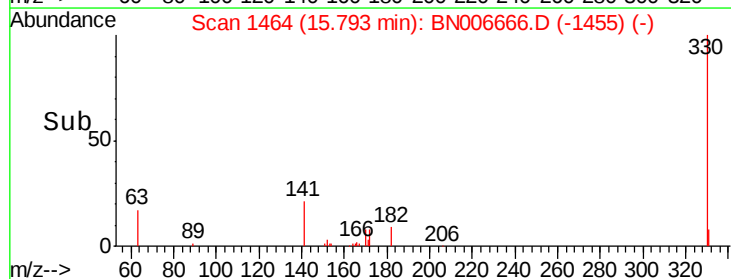
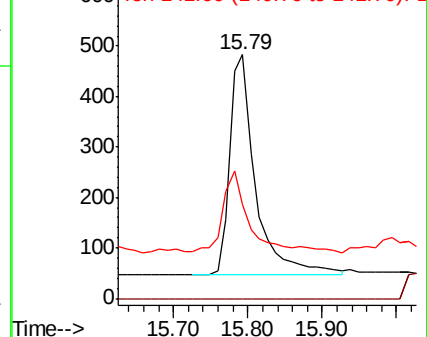
141 37.8 26.5 39.7

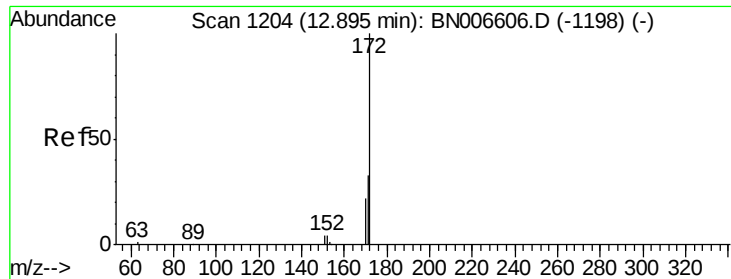


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

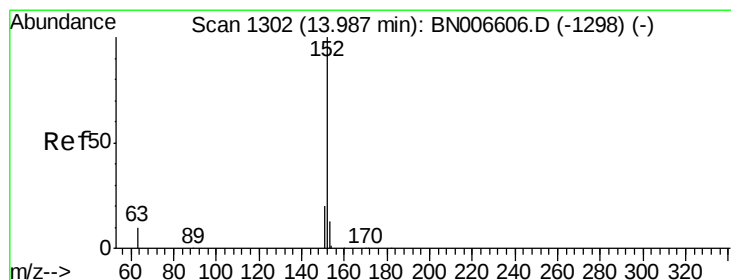
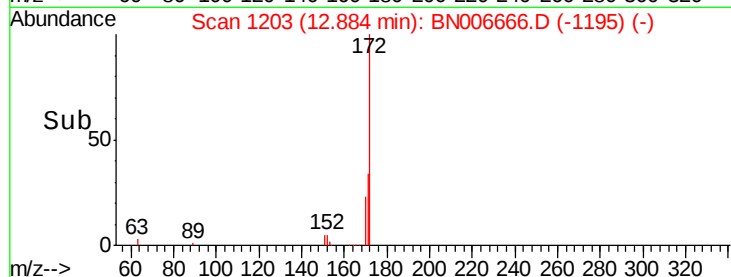
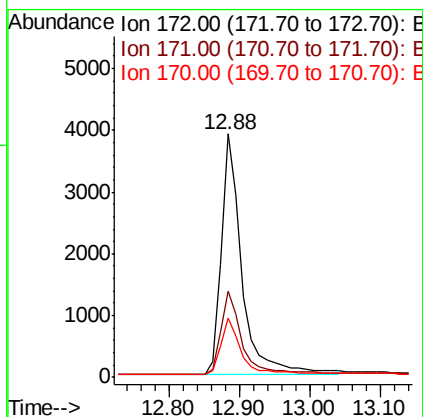
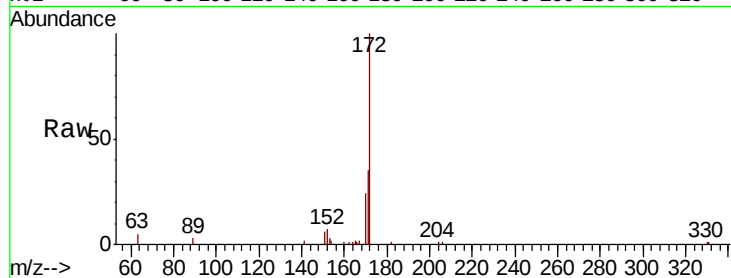




#15  
2-Fluorobiphenyl  
Concen: 0.228 ng  
RT: 12.88 min Scan# 1203  
Delta R.T. -0.01 min  
Lab File: BN006666.D  
Acq: 01 Jul 2019 18:12

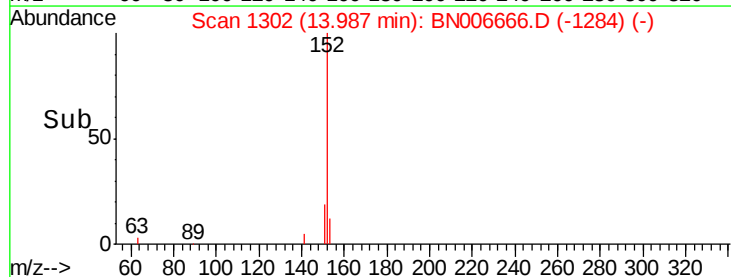
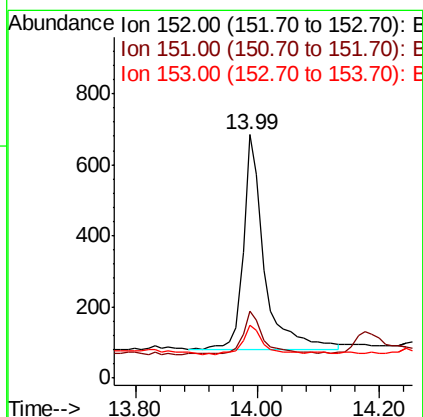
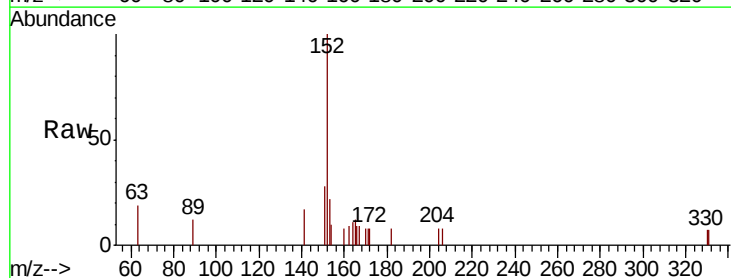
Instrument :  
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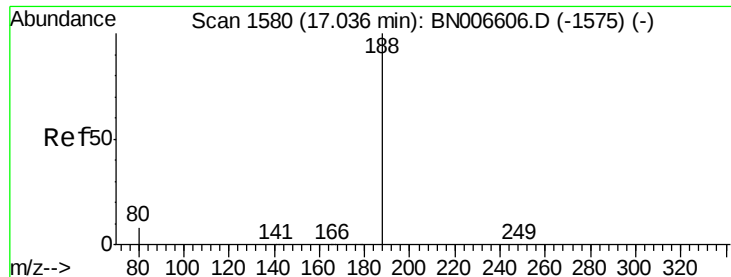
Tgt Ion:172 Resp: 8003  
Ion Ratio Lower Upper  
172 100  
171 35.3 27.0 40.4  
170 24.3 17.7 26.5



#16  
Acenaphthylene  
Concen: 0.032 ng  
RT: 13.99 min Scan# 1302  
Delta R.T. 0.00 min  
Lab File: BN006666.D  
Acq: 01 Jul 2019 18:12

Tgt Ion:152 Resp: 1433  
Ion Ratio Lower Upper  
152 100  
151 19.2 15.6 23.4  
153 13.2 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.03 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

Instrument :

BNA\_N

ClientSampleId :

PST-001-B199-062019

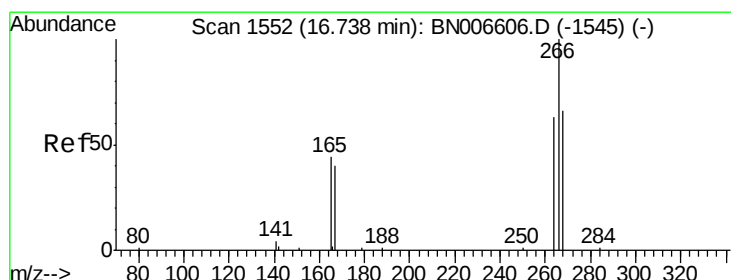
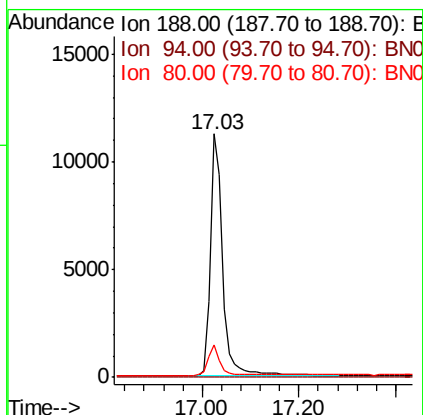
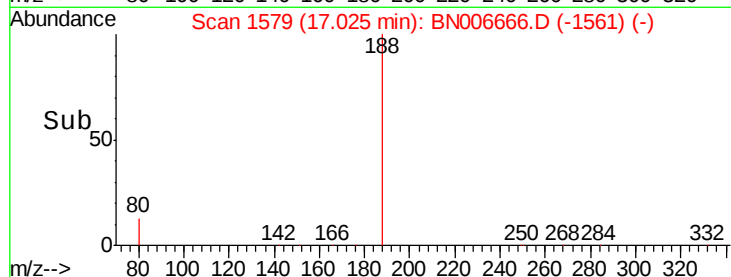
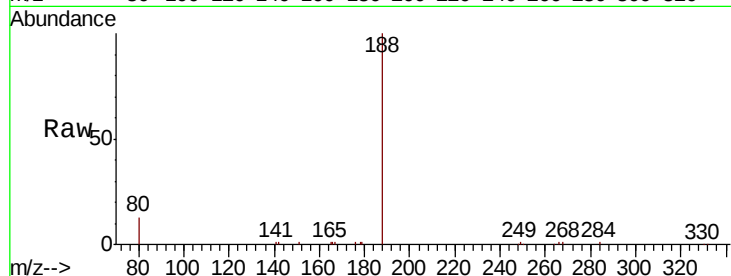
Tgt Ion:188 Resp: 19939

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.5 7.1 10.7#



#22

Pentachlorophenol

Concen: 0.206 ng

RT: 16.74 min Scan# 1552

Delta R.T. 0.00 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

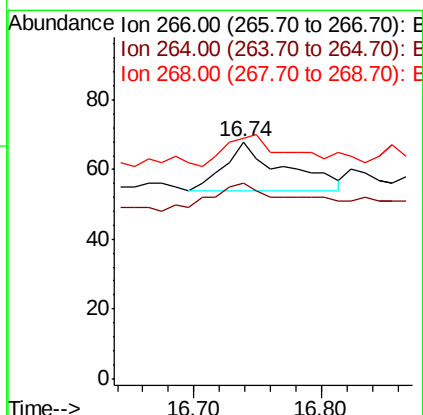
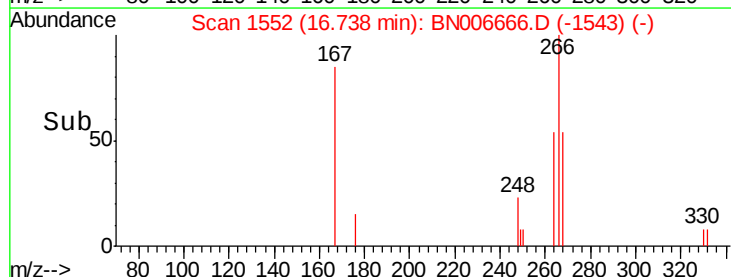
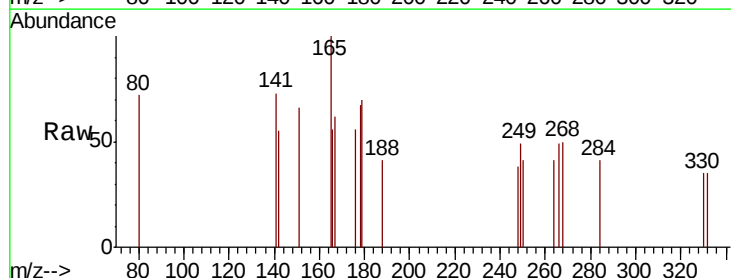
Tgt Ion:266 Resp: 45

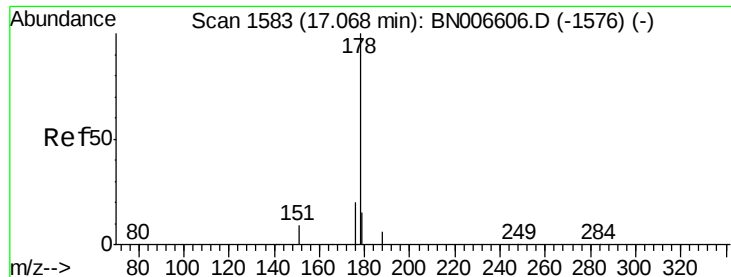
Ion Ratio Lower Upper

266 100

264 82.4 56.2 84.4

268 101.5 63.0 94.4#





#23

Phenanthrene

Concen: 0.062 ng

RT: 17.07 min Scan# 1583

Delta R.T. 0.00 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

Instrument :

BNA\_N

ClientSampleId :

PST-001-B199-062019

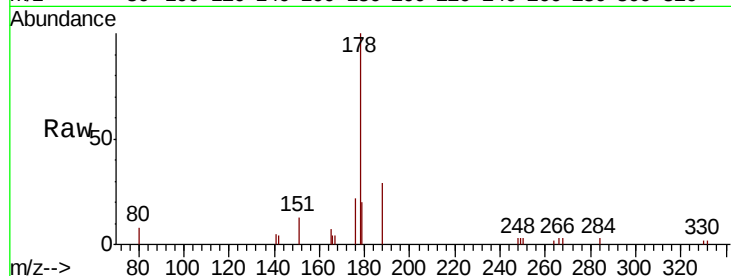
Tgt Ion:178 Resp: 3522

Ion Ratio Lower Upper

178 100

176 19.8 15.3 22.9

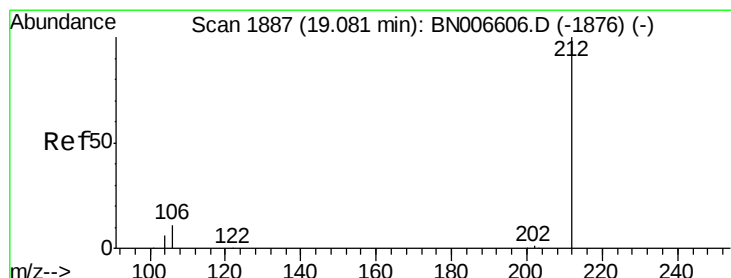
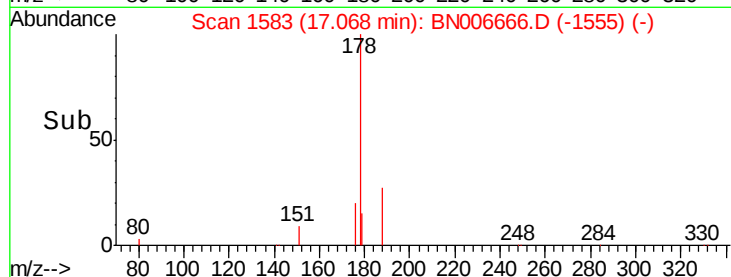
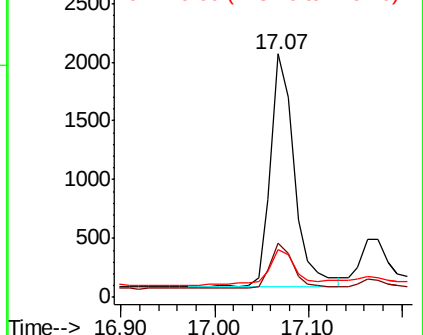
179 17.6 12.2 18.4



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: 0.212 ng

RT: 19.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

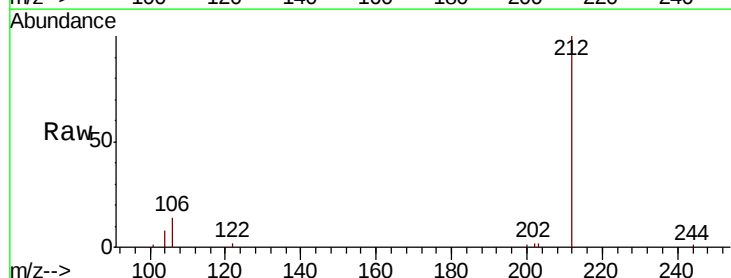
Tgt Ion:212 Resp: 12398

Ion Ratio Lower Upper

212 100

106 14.0 10.6 15.8

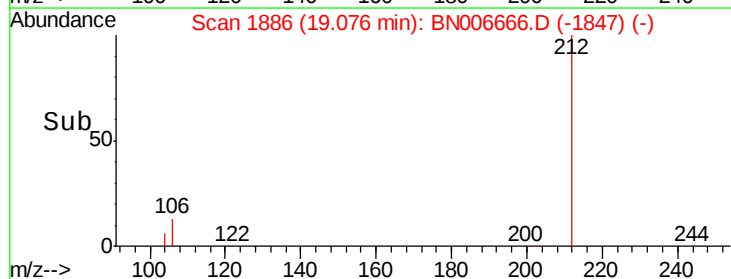
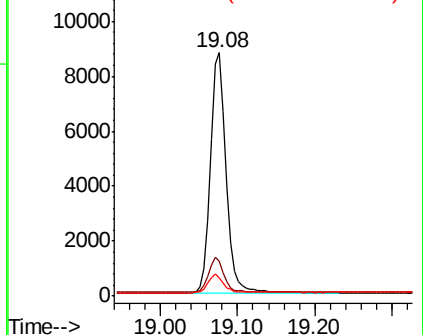
104 8.1 5.8 8.6

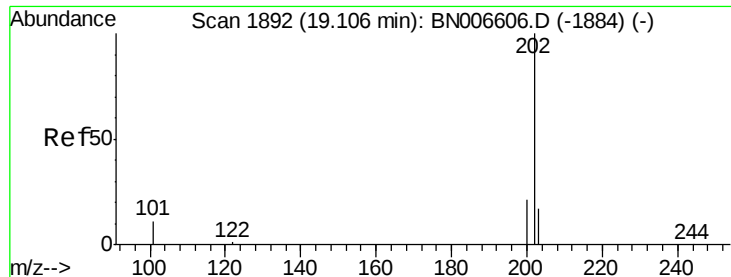


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

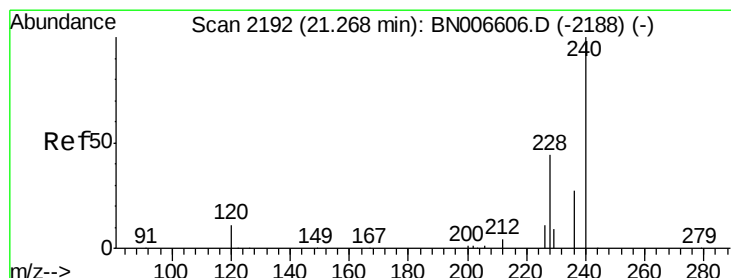
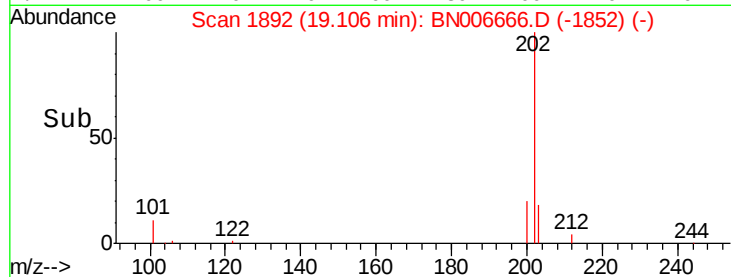
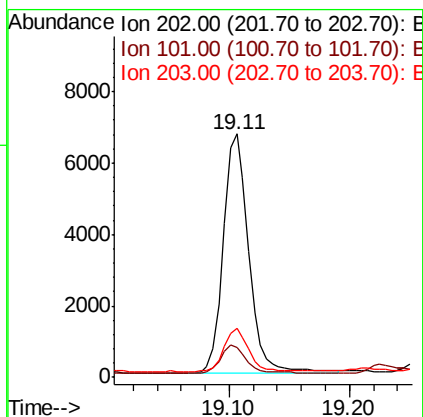
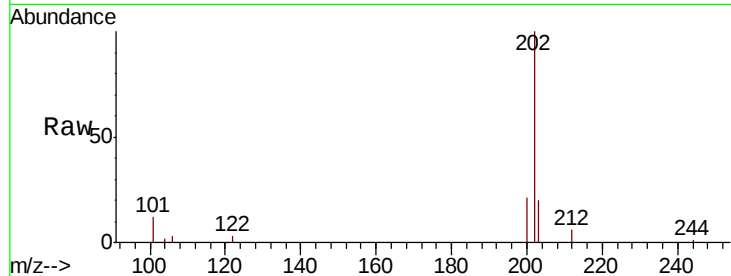




#26  
 Fluoranthene  
 Concen: 0.143 ng  
 RT: 19.11 min Scan# 1892  
 Delta R.T. 0.00 min  
 Lab File: BN006666.D  
 Acq: 01 Jul 2019 18:12

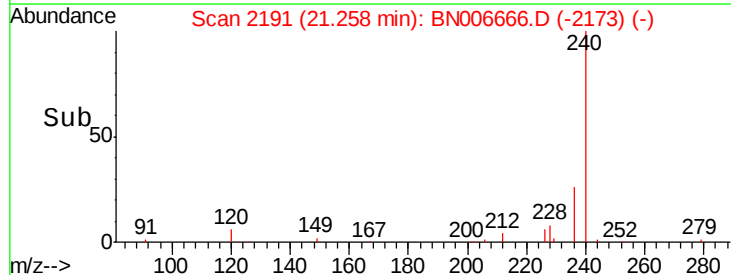
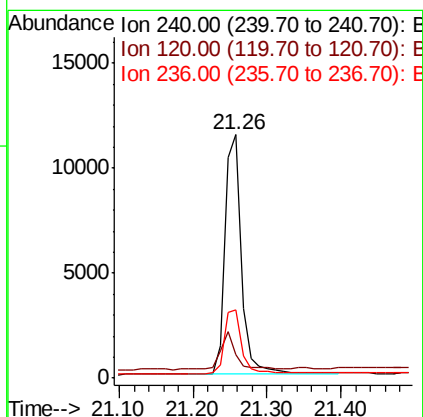
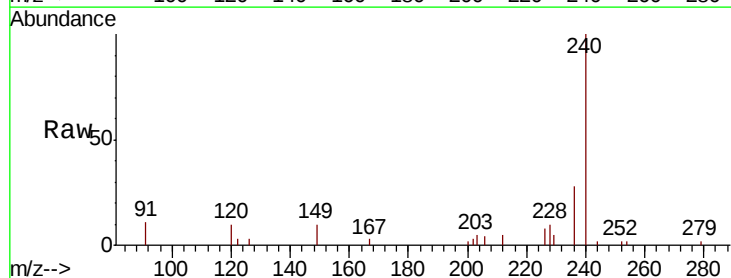
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-001-B199-062019

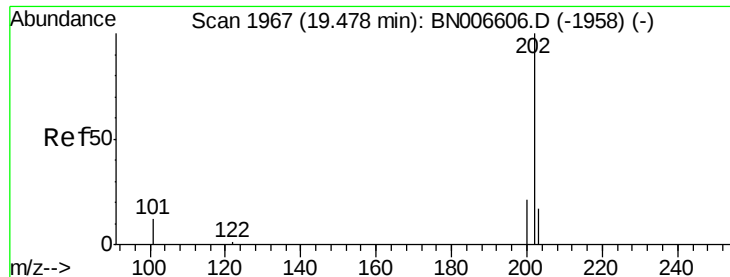
Tgt Ion: 202 Resp: 9867  
 Ion Ratio Lower Upper  
 202 100  
 101 12.6 8.9 13.3  
 203 17.1 13.6 20.4



#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.26 min Scan# 2191  
 Delta R.T. -0.01 min  
 Lab File: BN006666.D  
 Acq: 01 Jul 2019 18:12

Tgt Ion: 240 Resp: 18252  
 Ion Ratio Lower Upper  
 240 100  
 120 9.8 9.9 14.9#  
 236 27.9 22.2 33.4





#28

Pyrene

Concen: 0.151 ng

RT: 19.47 min Scan# 1966

Delta R.T. -0.00 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

Instrument :

BNA\_N

ClientSampleId :

PST-001-B199-062019

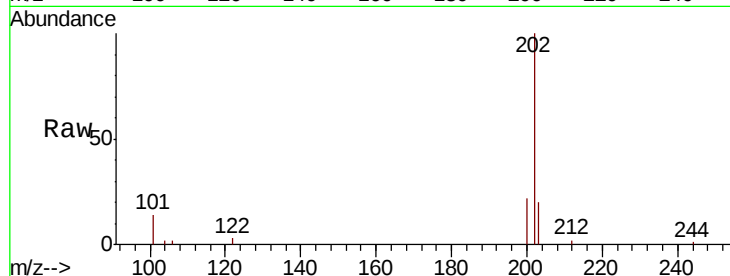
Tgt Ion:202 Resp: 9637

Ion Ratio Lower Upper

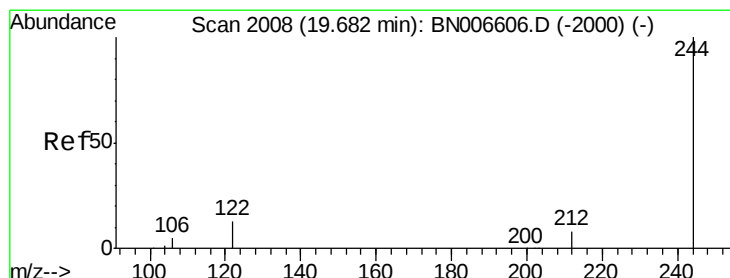
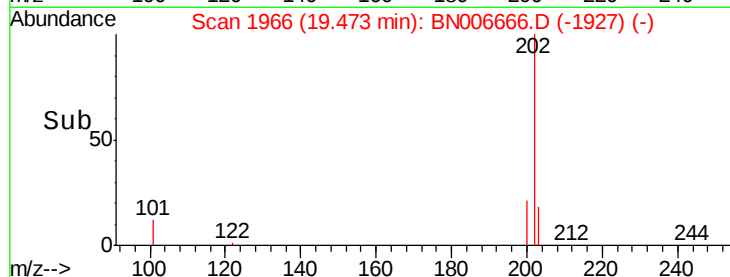
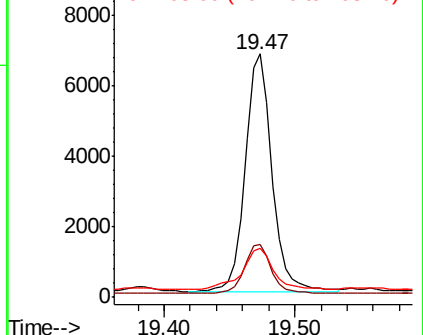
202 100

200 21.1 16.7 25.1

203 21.0 14.1 21.1



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: 0.222 ng

RT: 19.68 min Scan# 2007

Delta R.T. -0.00 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

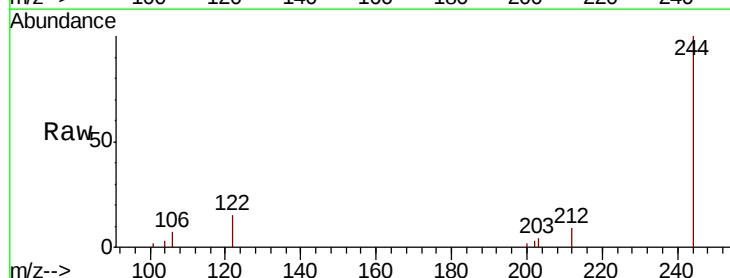
Tgt Ion:244 Resp: 8496

Ion Ratio Lower Upper

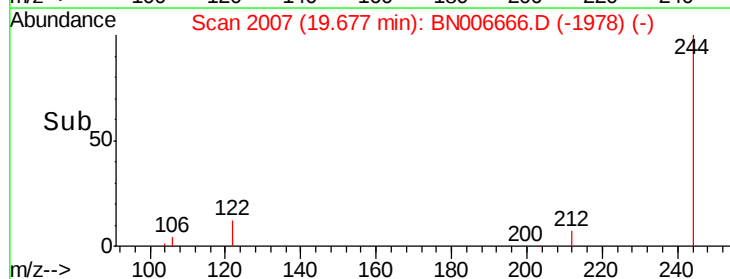
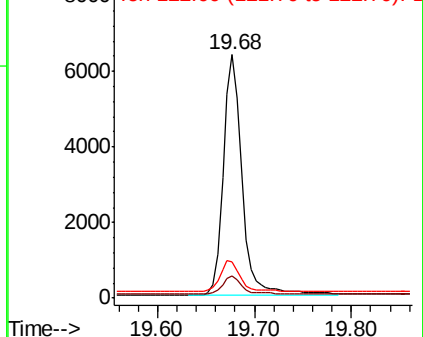
244 100

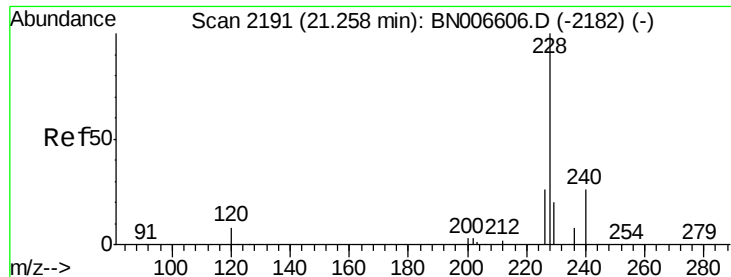
212 9.0 6.7 10.1

122 15.0 11.0 16.6



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: 0.093 ng

RT: 21.24 min Scan# 2189

Delta R.T. -0.02 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

Instrument :

BNA\_N

ClientSampleId :

PST-001-B199-062019

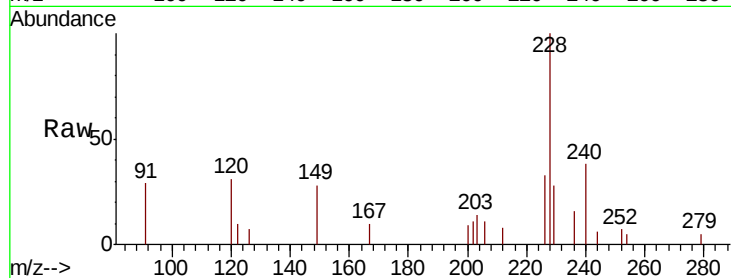
Tgt Ion:228 Resp: 5572

Ion Ratio Lower Upper

228 100

226 33.0 21.2 31.8#

229 28.0 16.1 24.1#

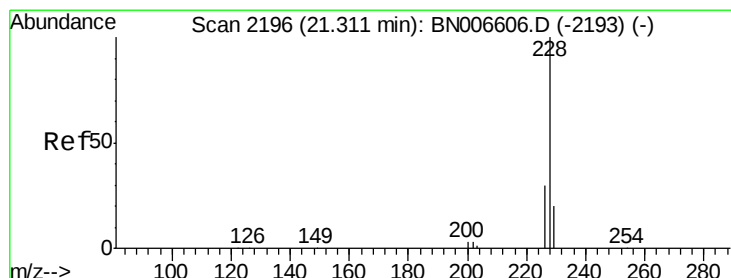
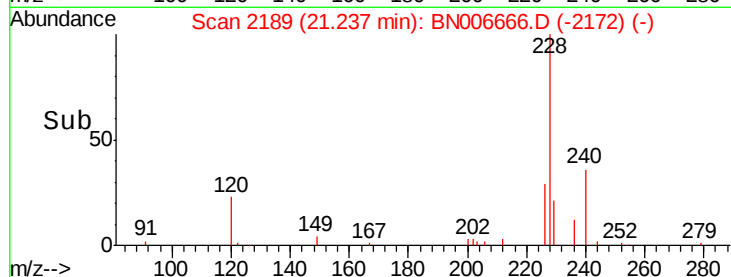
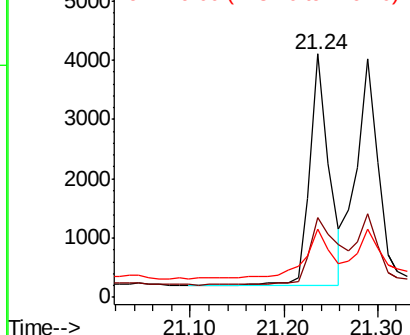


Abundance

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: 0.096 ng

RT: 21.29 min Scan# 2194

Delta R.T. -0.02 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

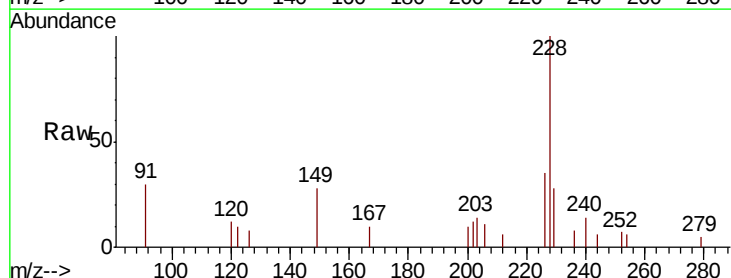
Tgt Ion:228 Resp: 6166

Ion Ratio Lower Upper

228 100

226 35.2 23.8 35.6

229 28.5 15.9 23.9#

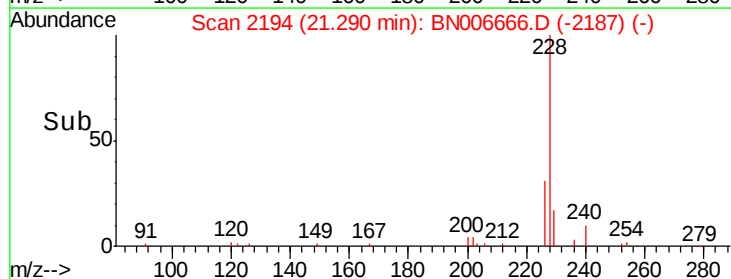
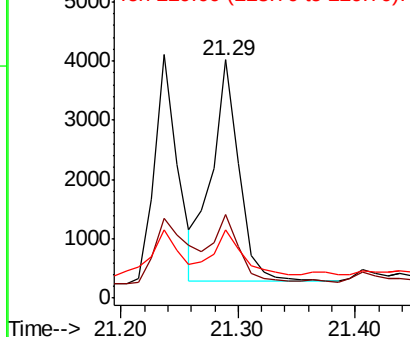


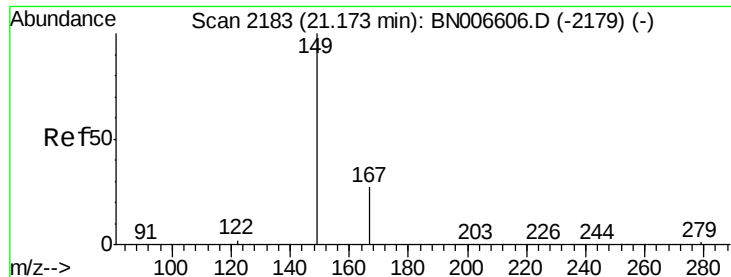
Abundance

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: 0.195 ng

RT: 21.16 min Scan# 2182

Delta R.T. -0.01 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

Instrument :

BNA\_N

ClientSampleId :

PST-001-B199-062019

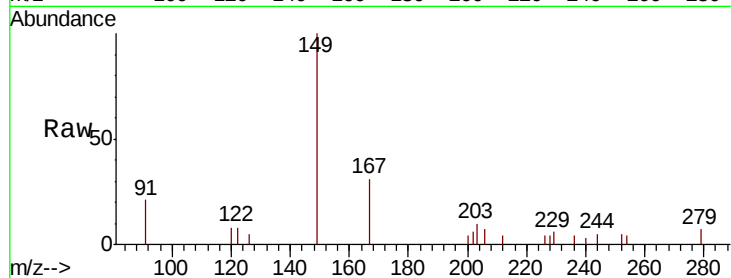
Tgt Ion:149 Resp: 5861

Ion Ratio Lower Upper

149 100

167 27.8 22.9 34.3

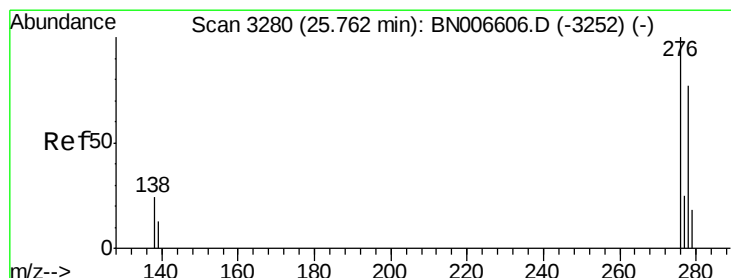
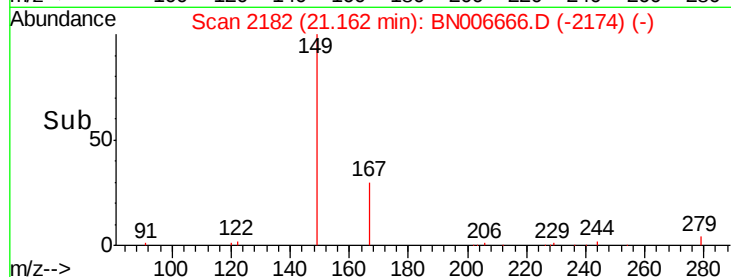
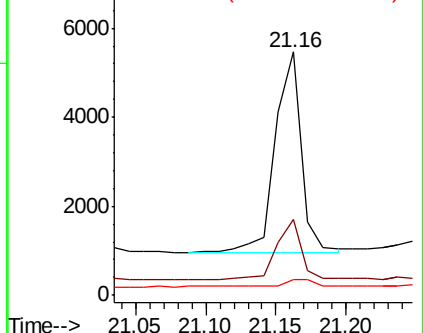
279 4.6 3.3 4.9



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: 0.058 ng

RT: 25.72 min Scan# 3269

Delta R.T. -0.04 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

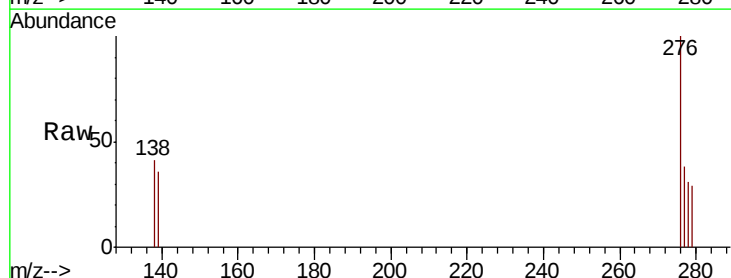
Tgt Ion:276 Resp: 3779

Ion Ratio Lower Upper

276 100

138 24.3 19.3 28.9

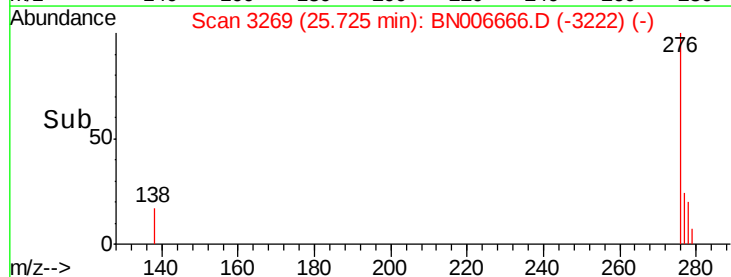
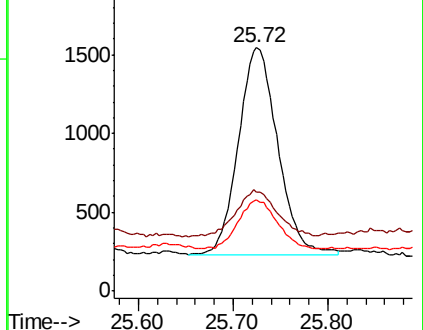
277 23.4 19.9 29.9

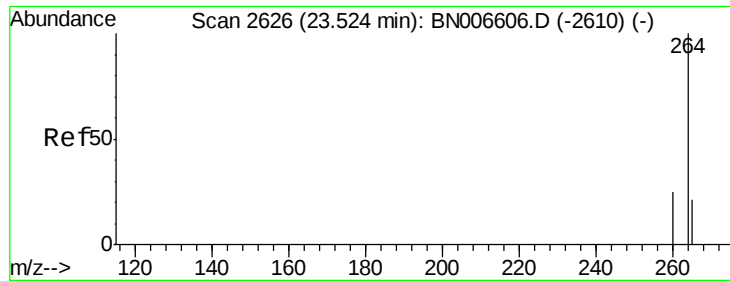


Abundance Ion 276.00 (275.70 to 276.70): E

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: 23.49 min Scan# 2615

Delta R.T. -0.04 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

Instrument :

BNA\_N

ClientSampleId :

PST-001-B199-062019

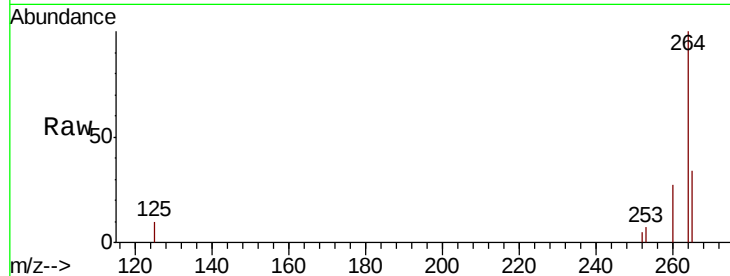
Tgt Ion:264 Resp: 20501

Ion Ratio Lower Upper

264 100

260 26.9 20.2 30.2

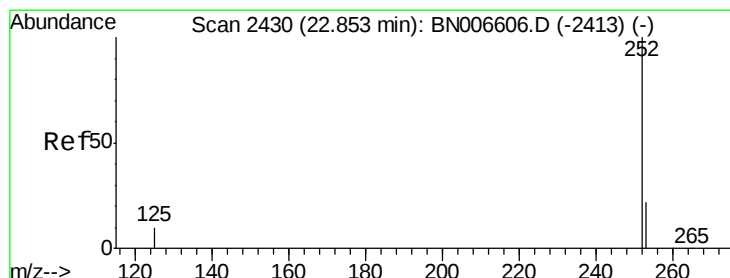
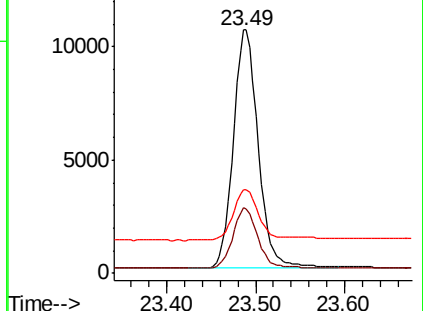
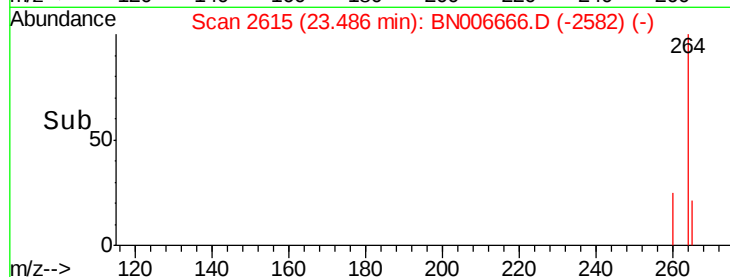
265 34.1 23.3 34.9



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: 0.116 ng

RT: 22.83 min Scan# 2422

Delta R.T. -0.03 min

Lab File: BN006666.D

Acq: 01 Jul 2019 18:12

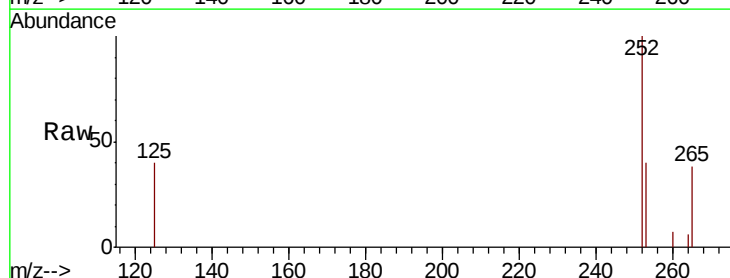
Tgt Ion:252 Resp: 8079

Ion Ratio Lower Upper

252 100

253 40.0 18.4 27.6#

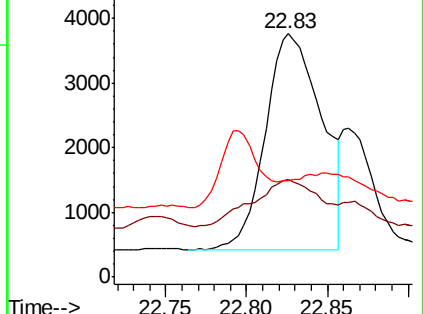
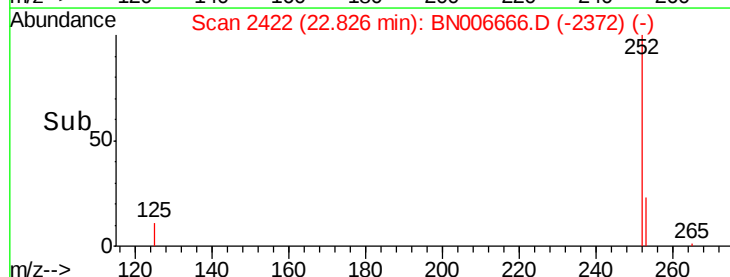
125 39.7 8.7 13.1#

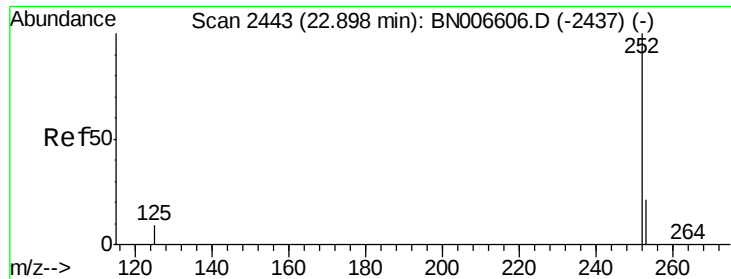


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

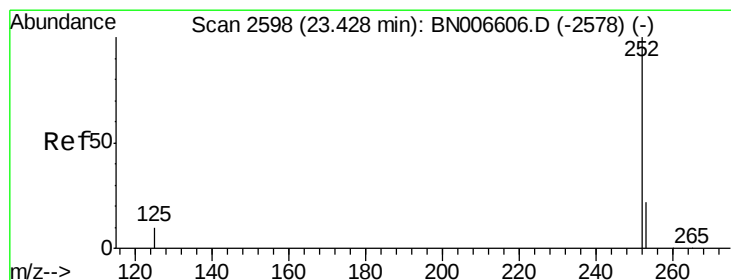
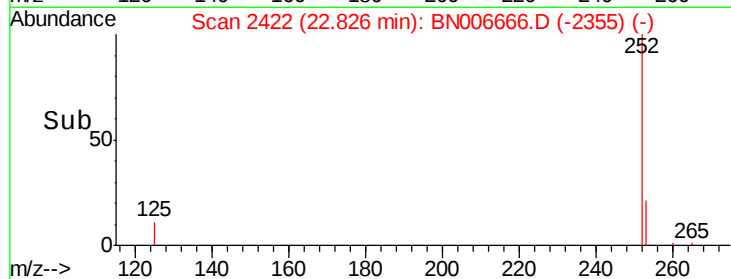
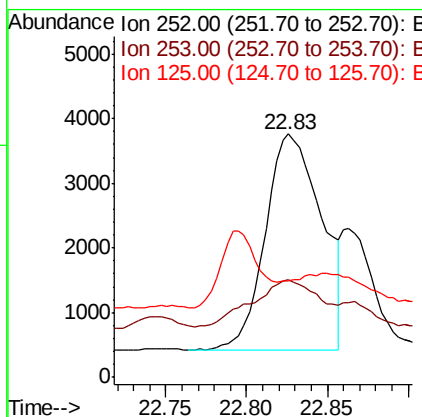
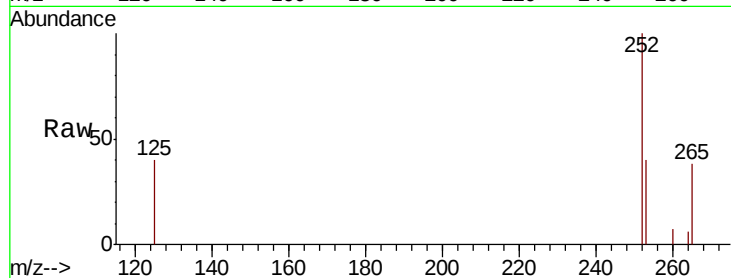




#36  
Benzo(k)fluoranthene  
Concen: 0.109 ng  
RT: 22.83 min Scan# 2422  
Delta R.T. -0.07 min  
Lab File: BN006666.D  
Acq: 01 Jul 2019 18:12

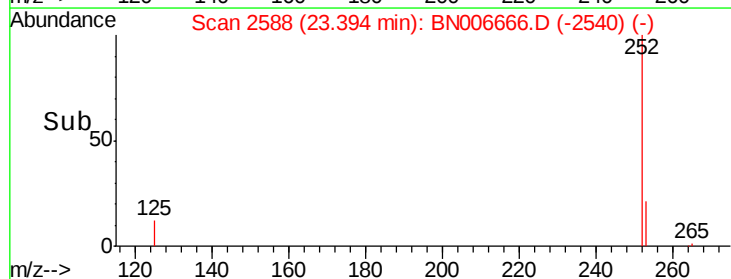
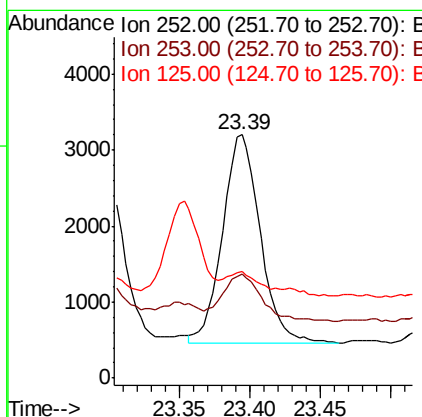
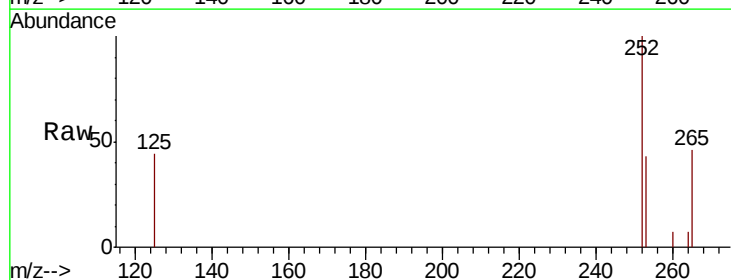
Instrument :  
BNA\_N  
ClientSampleId :  
PST-001-B199-062019

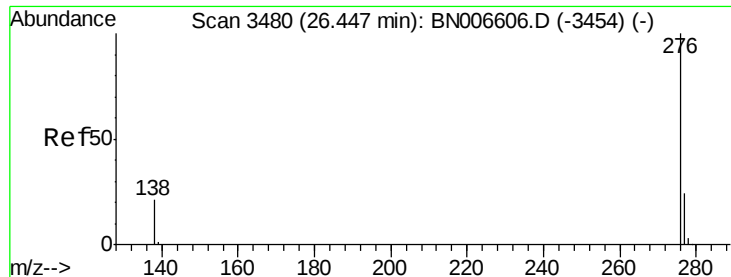
Tgt Ion: 252 Resp: 8079  
Ion Ratio Lower Upper  
252 100  
253 40.0 18.3 27.5#  
125 39.7 8.4 12.6#



#37  
Benzo(a)pyrene  
Concen: 0.078 ng  
RT: 23.39 min Scan# 2588  
Delta R.T. -0.03 min  
Lab File: BN006666.D  
Acq: 01 Jul 2019 18:12

Tgt Ion: 252 Resp: 5105  
Ion Ratio Lower Upper  
252 100  
253 42.9 18.8 28.2#  
125 43.9 9.4 14.2#





#39

Benzo(g,h,i)perylene

Concen: 0.071 ng

RT: 26.41 min Scan# 3470

Delta R.T. -0.03 min

Lab File: BN006666.D

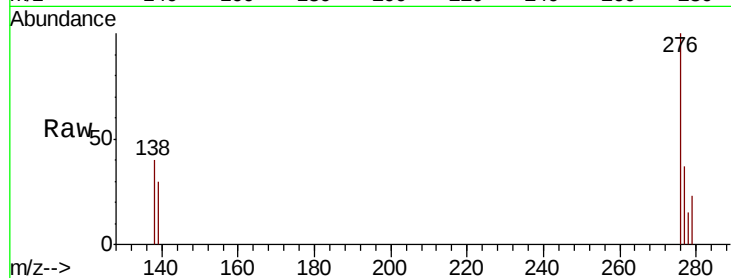
Acq: 01 Jul 2019 18:12

Instrument :

BNA\_N

ClientSampleId :

PST-001-B199-062019



Tgt Ion: 276 Resp: 4024

Ion Ratio Lower Upper

276 100

277 37.0 19.6 29.4#

138 39.8 17.7 26.5#

