

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032119\  
 Data File : BN004879.D  
 Acq On : 22 Mar 2019 08:20  
 Operator : JU/SJ  
 Sample : K2013-10  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PST-026-B118-031819

Quant Time: Mar 22 22:21:32 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN032019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 20 16:06:20 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.70  | 152  | 2358     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.48 | 136  | 10866    | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.33 | 164  | 6931     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.09 | 188  | 17657    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.29 | 240  | 23389    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.54 | 264  | 25545    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.29  | 112 | 3180  | 0.50 | ng | 0.00  |
| 5) Phenol-d6                | 6.87  | 99  | 4381  | 0.55 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 8.86  | 82  | 2885  | 0.40 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.08 | 152 | 7486  | 0.39 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.84 | 330 | 2760  | 0.58 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 12.95 | 172 | 11927 | 0.42 | ng | -0.01 |
| 25) Fluoranthene-d10        | 19.13 | 212 | 22359 | 0.38 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.72 | 244 | 23805 | 0.50 | ng | 0.00  |

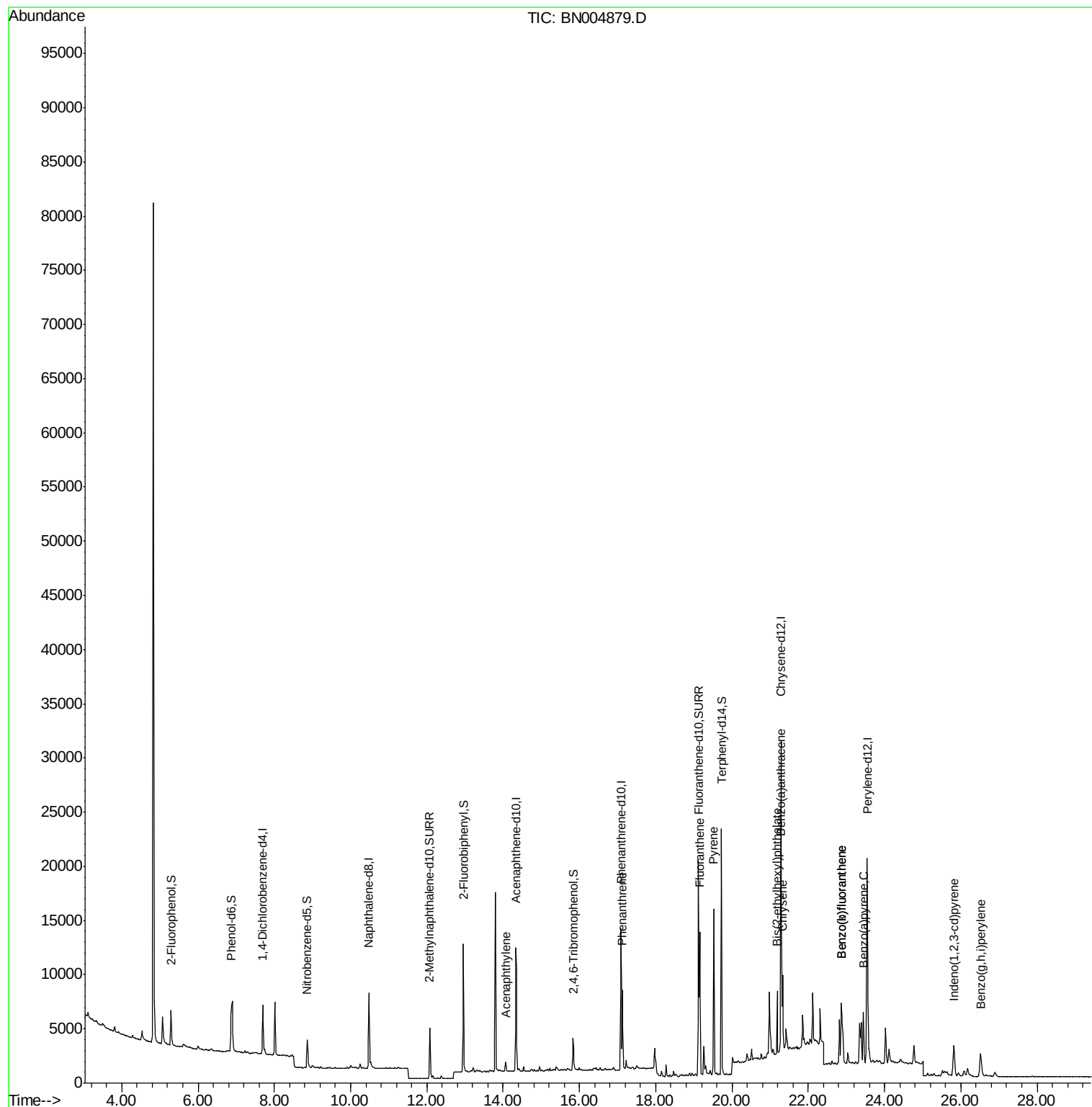
|                                |       |     |       |       |        |      |
|--------------------------------|-------|-----|-------|-------|--------|------|
| Target Compounds               |       |     |       |       | Qvalue |      |
| 16) Acenaphthylene             | 14.07 | 152 | 1166  | 0.033 | ng     | 99   |
| 23) Phenanthrene               | 17.13 | 178 | 7369  | 0.129 | ng     | 99   |
| 26) Fluoranthene               | 19.16 | 202 | 11468 | 0.157 | ng     | # 96 |
| 28) Pyrene                     | 19.52 | 202 | 13600 | 0.191 | ng     | 97   |
| 30) Benzo(a)anthracene         | 21.28 | 228 | 6475  | 0.084 | ng     | 91   |
| 31) Chrysene                   | 21.33 | 228 | 7306  | 0.090 | ng     | 95   |
| 32) Bis(2-ethylhexyl)phthalate | 21.18 | 149 | 4788  | 0.156 | ng     | 98   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.82 | 276 | 4423  | 0.038 | ng     | 99   |
| 35) Benzo(b)fluoranthene       | 22.87 | 252 | 8577  | 0.093 | ng     | # 72 |
| 36) Benzo(k)fluoranthene       | 22.87 | 252 | 8577  | 0.094 | ng     | # 72 |
| 37) Benzo(a)pyrene             | 23.45 | 252 | 6455  | 0.076 | ng     | # 81 |
| 39) Benzo(a,h,i)perylene       | 26.52 | 276 | 4767  | 0.048 | ng     | # 91 |

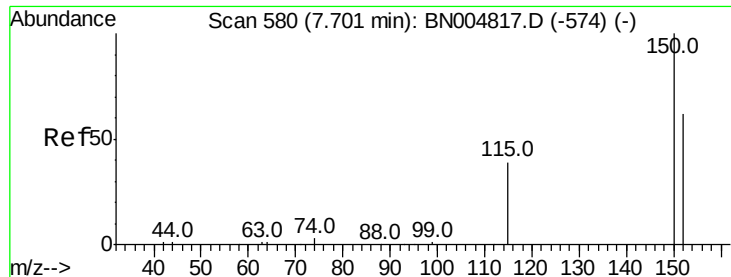
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032119\  
Data File : BN004879.D  
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Sample : K2013-10  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
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PST-026-B118-031819

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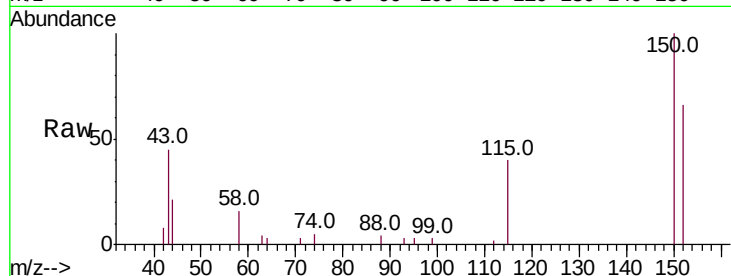


#1

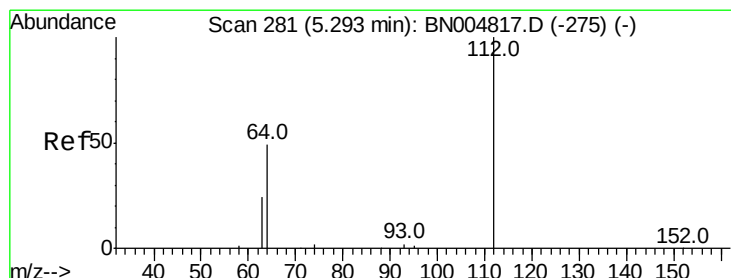
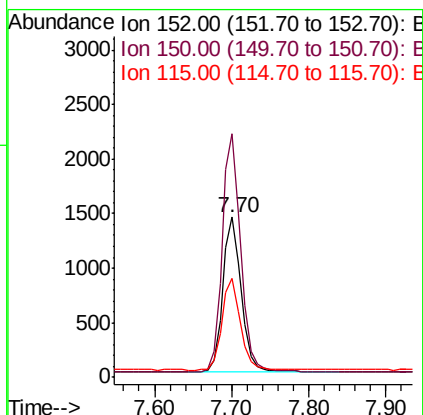
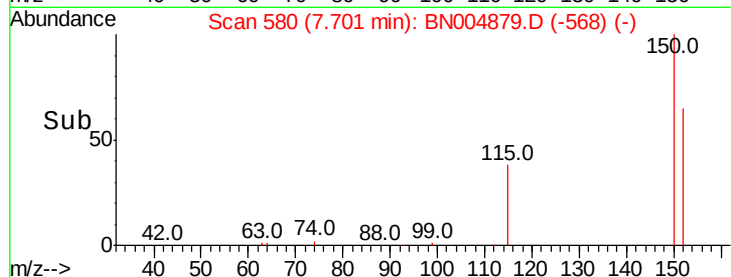
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.70 min Scan# 580  
Delta R.T. 0.00 min  
Lab File: BN004879.D  
Acq: 22 Mar 2019 08:20

Instrument :  
BNA\_N  
ClientSampleId :  
PST-026-B118-031819

Tot Ion:152 Resp: 2358  
Ion Ratio Lower Upper  
152 100  
150 152.3 126.2 189.4  
115 61.6 52.6 79.0



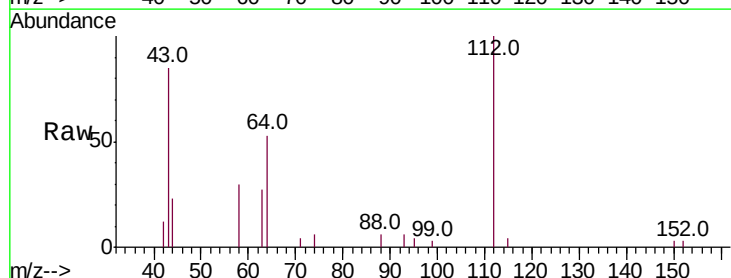
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



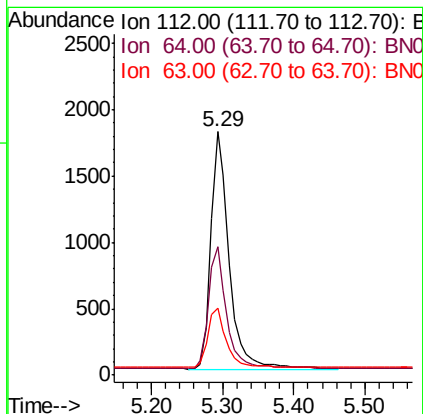
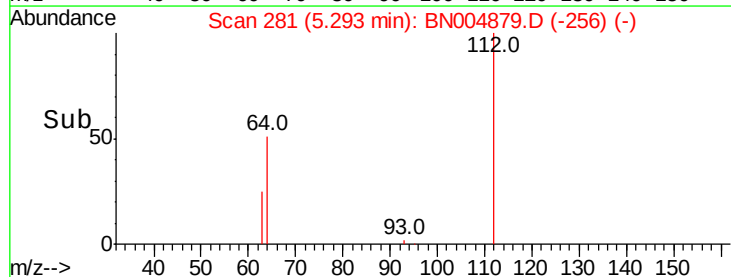
#4

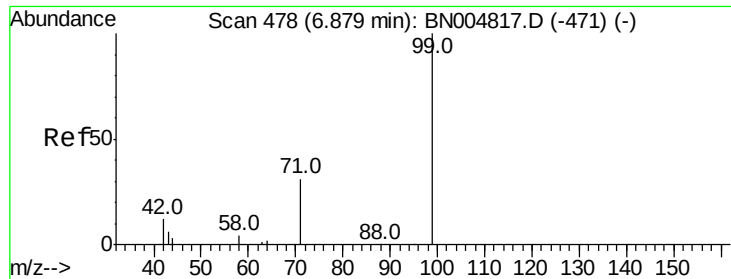
2-Fluorophenol  
Concen: 0.496 ng  
RT: 5.29 min Scan# 281  
Delta R.T. 0.00 min  
Lab File: BN004879.D  
Acq: 22 Mar 2019 08:20

Tgt Ion:112 Resp: 3180  
Ion Ratio Lower Upper  
112 100  
64 51.1 40.0 60.0  
63 25.3 20.2 30.2



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: 0.549 ng

RT: 6.87 min Scan# 477

Delta R.T. -0.01 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Instrument :

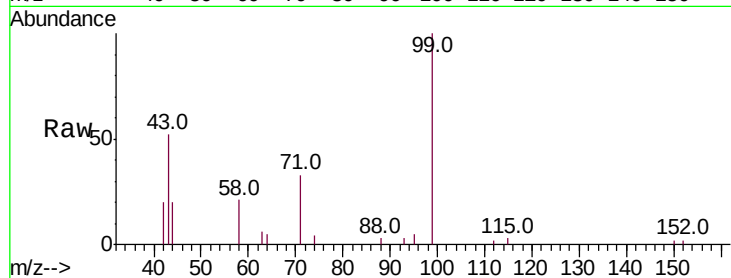
BNA\_N

ClientSampleId :

PST-026-B118-031819

Tot Ion: 99 Resp: 4381

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 20.3  | 12.7  | 19.1# |
| 71  | 31.8  | 26.6  | 40.0  |



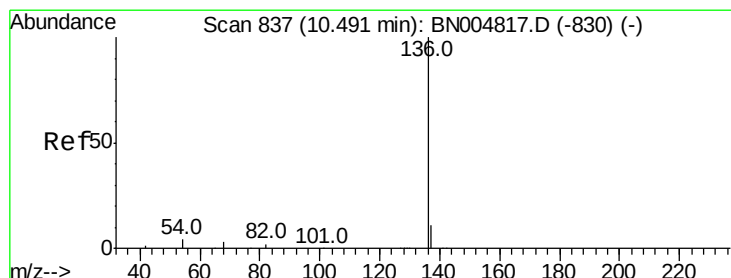
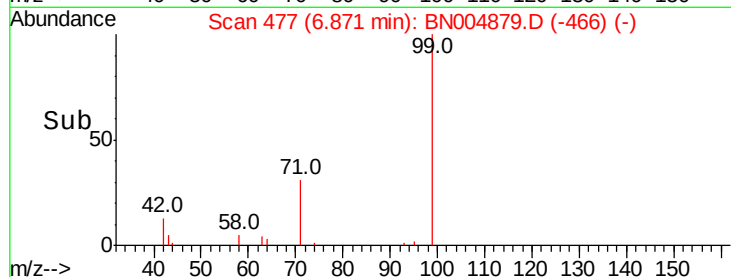
Abundance Ion 99.00 (98.70 to 99.70): BN004817.D (-471) (-)

Ion 42.00 (41.70 to 42.70): BN004817.D (-471) (-)

Ion 71.00 (70.70 to 71.70): BN004817.D (-471) (-)

6.87

Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.48 min Scan# 836

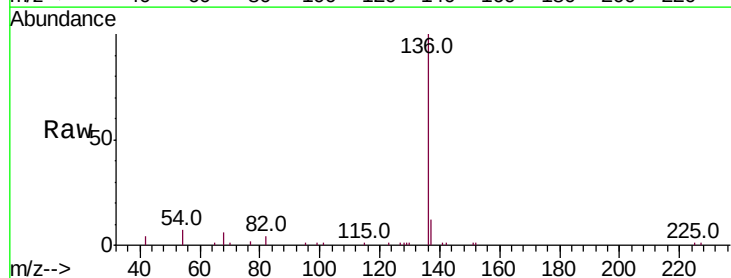
Delta R.T. -0.01 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Tgt Ion: 136 Resp: 10866

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.8  | 9.6   | 14.4  |
| 54  | 7.5   | 4.2   | 6.2#  |
| 68  | 6.5   | 3.9   | 5.9#  |



Abundance Ion 136.00 (135.70 to 136.70): BN004817.D (-830) (-)

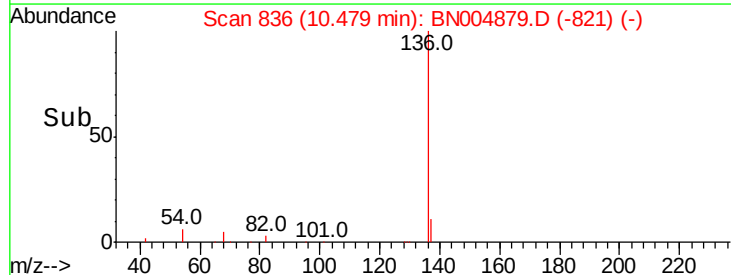
Ion 137.00 (136.70 to 137.70): BN004817.D (-830) (-)

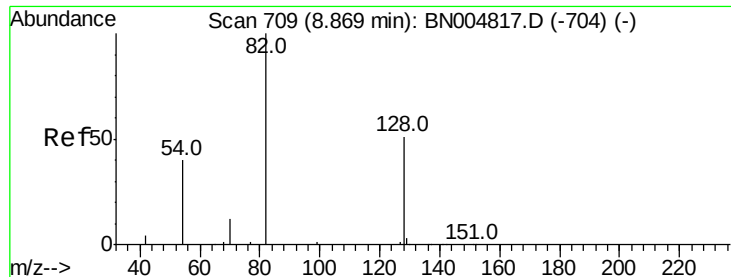
Ion 54.00 (53.70 to 54.70): BN004817.D (-830) (-)

Ion 68.00 (67.70 to 68.70): BN004817.D (-830) (-)

10.48

Time-->





#8

Nitrobenzene-d5

Concen: 0.401 ng

RT: 8.86 min Scan# 708

Delta R.T. -0.01 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Instrument :

BNA\_N

ClientSampleId :

PST-026-B118-031819

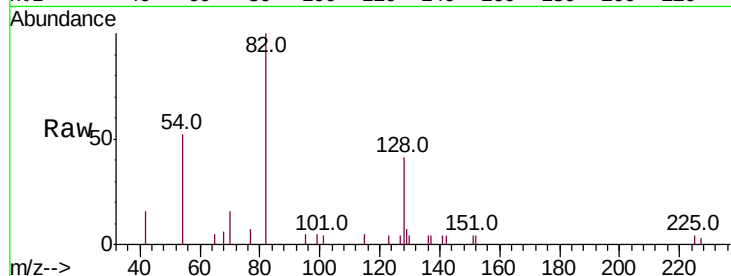
Tot Ion: 82 Resp: 2885

Ion Ratio Lower Upper

82 100

128 41.0 43.0 64.6#

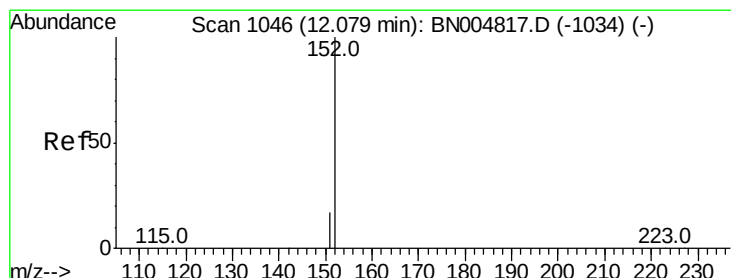
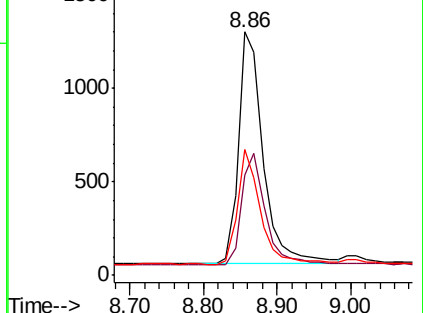
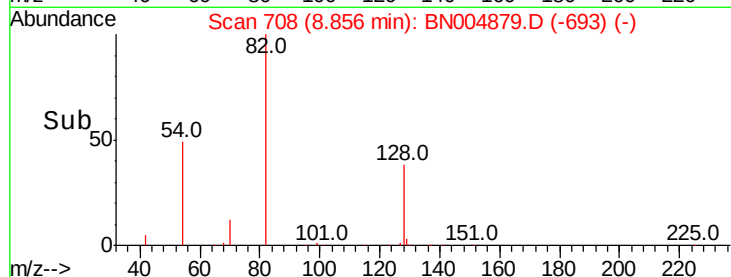
54 51.5 35.3 52.9



Abundance Ion 82.00 (81.70 to 82.70): BN004879.D (-693) (-)

Ion 128.00 (127.70 to 128.70): BN004879.D (-693) (-)

Ion 54.00 (53.70 to 54.70): BN004879.D (-693) (-)



#11

2-Methylnaphthalene-d10

Concen: 0.395 ng

RT: 12.08 min Scan# 1046

Delta R.T. 0.00 min

Lab File: BN004879.D

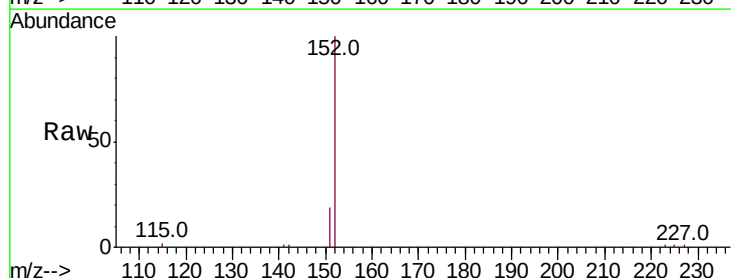
Acq: 22 Mar 2019 08:20

Tgt Ion: 152 Resp: 7486

Ion Ratio Lower Upper

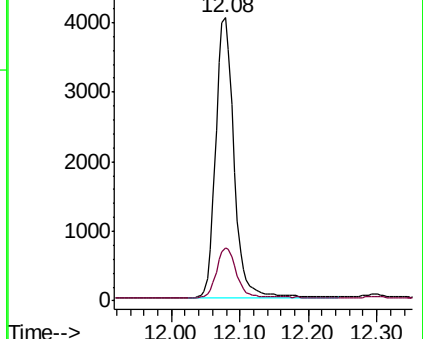
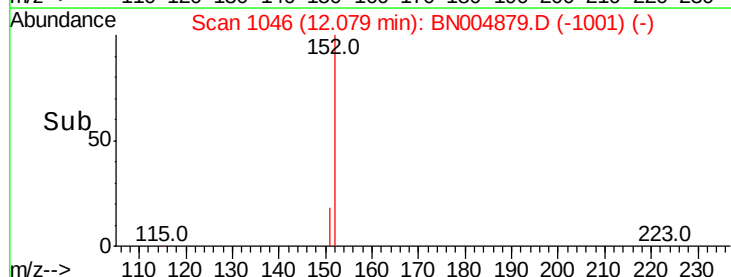
152 100

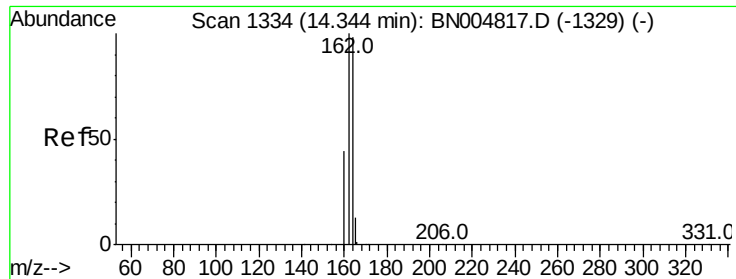
151 19.0 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BN004879.D (-1001) (-)

Ion 151.00 (150.70 to 151.70): BN004879.D (-1001) (-)





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.33 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Instrument :

BNA\_N

ClientSampleId :

PST-026-B118-031819

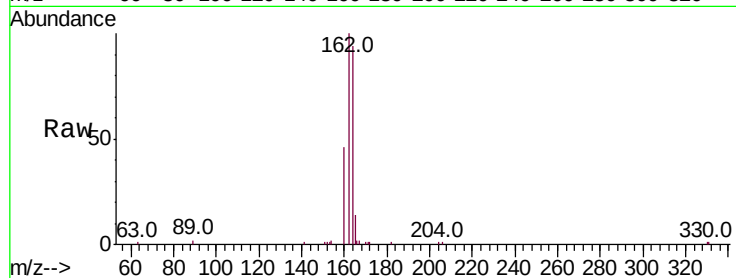
Tot Ion:164 Resp: 6931

Ion Ratio Lower Upper

164 100

162 106.4 81.9 122.9

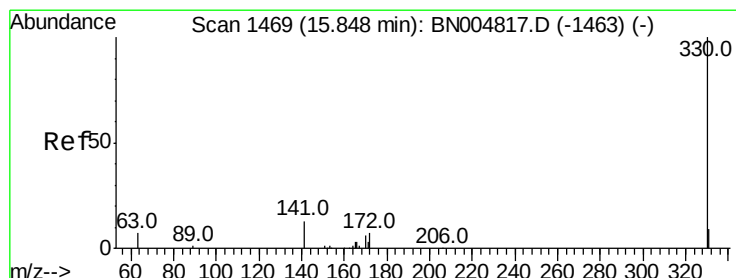
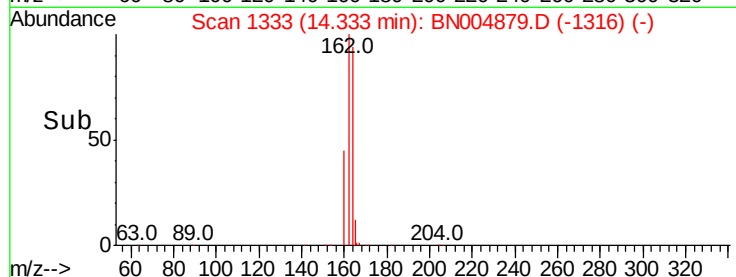
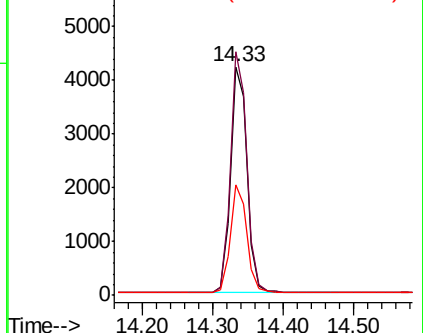
160 48.4 36.6 54.8



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: 0.577 ng

RT: 15.84 min Scan# 1468

Delta R.T. -0.01 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

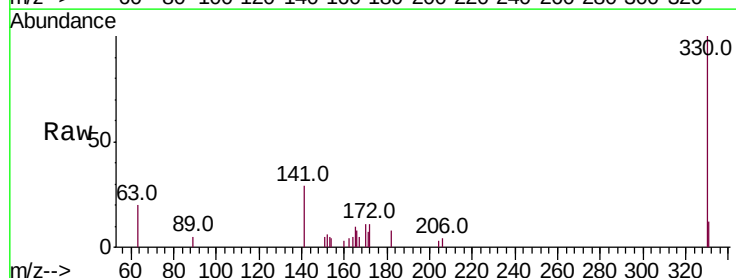
Tgt Ion:330 Resp: 2760

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

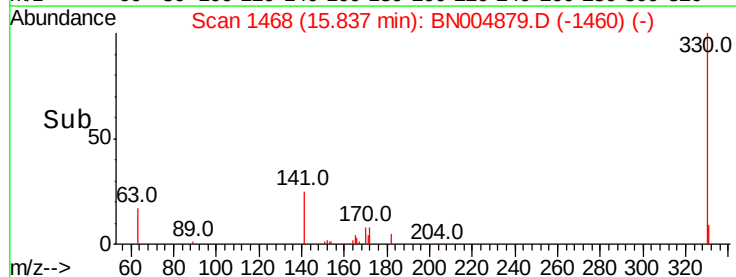
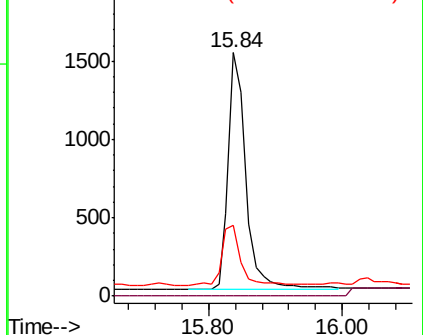
141 28.3 20.9 31.3

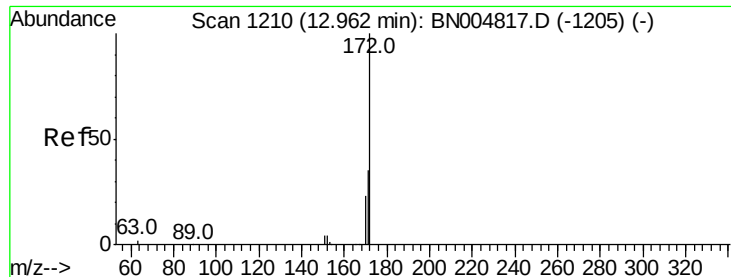


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

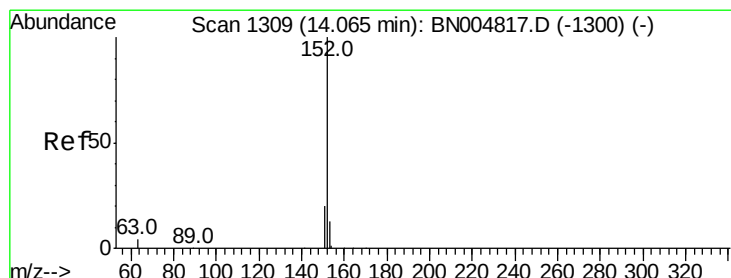
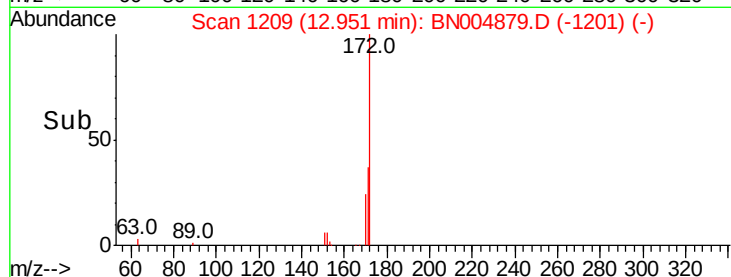
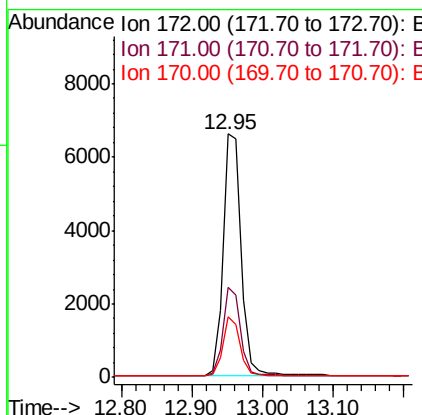
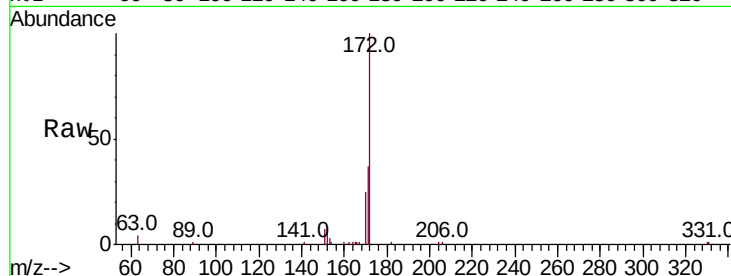




#15  
2-Fluorobiphenyl  
Concen: 0.416 ng  
RT: 12.95 min Scan# 1209  
Delta R.T. -0.01 min  
Lab File: BN004879.D  
Acq: 22 Mar 2019 08:20

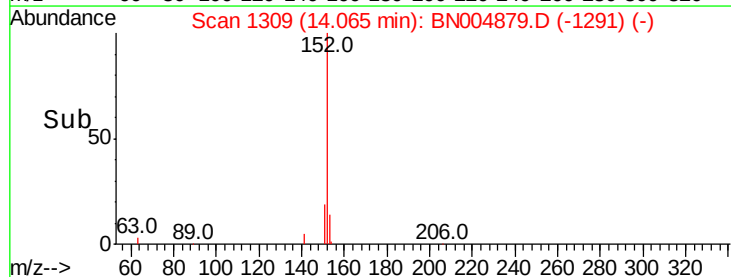
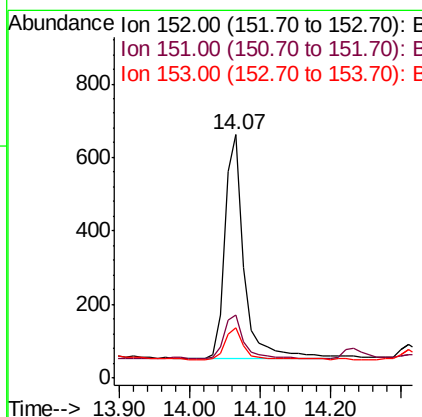
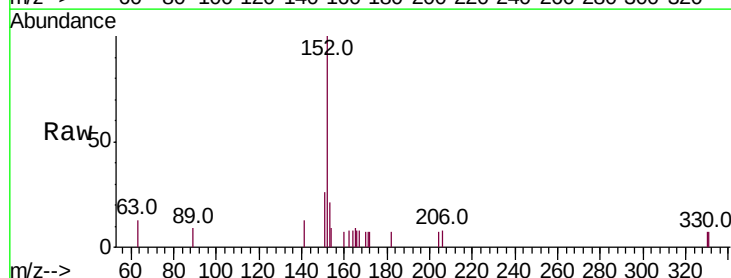
Instrument :  
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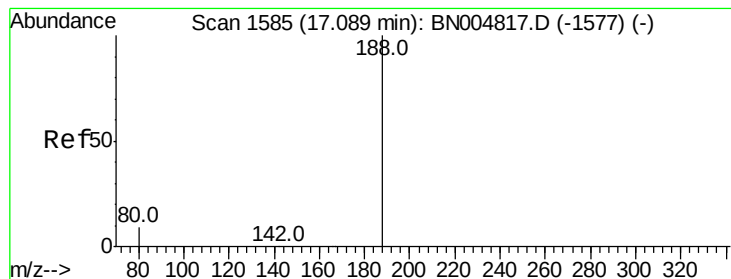
Tot Ion:172 Resp: 11927  
Ion Ratio Lower Upper  
172 100  
171 37.0 28.7 43.1  
170 24.9 18.7 28.1



#16  
Acenaphthylene  
Concen: 0.033 ng  
RT: 14.07 min Scan# 1309  
Delta R.T. 0.00 min  
Lab File: BN004879.D  
Acq: 22 Mar 2019 08:20

Tgt Ion:152 Resp: 1166  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.1 24.1  
153 14.2 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.09 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Instrument :

BNA\_N

ClientSampleId :

PST-026-B118-031819

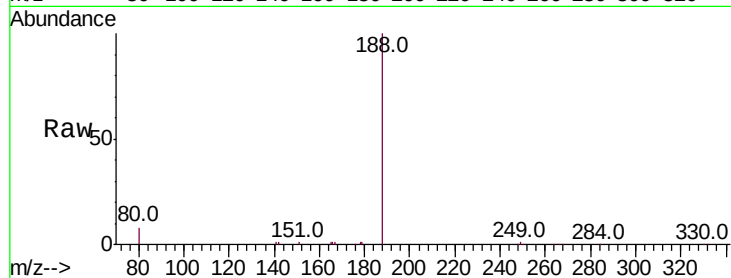
Tot Ion:188 Resp: 17657

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 0.0   | 0.0   | 0.0   |
| 80  | 8.4   | 7.4   | 11.2  |

188 100

94 0.0 0.0 0.0

80 8.4 7.4 11.2



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

17.09

15000

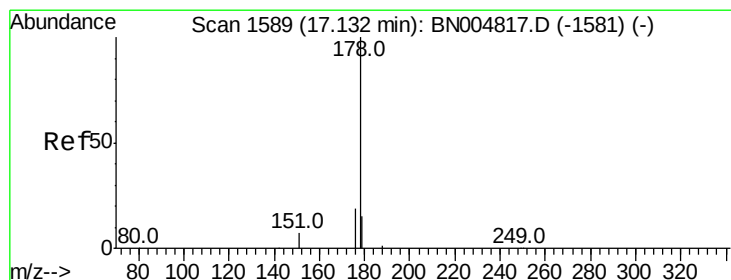
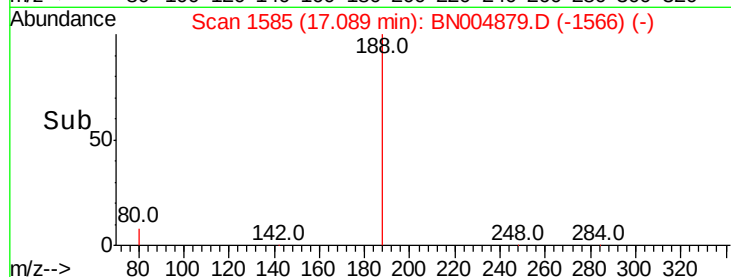
10000

5000

0

Time-->

17.00 17.10 17.20



#23

Phenanthrene

Concen: 0.129 ng

RT: 17.13 min Scan# 1589

Delta R.T. 0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

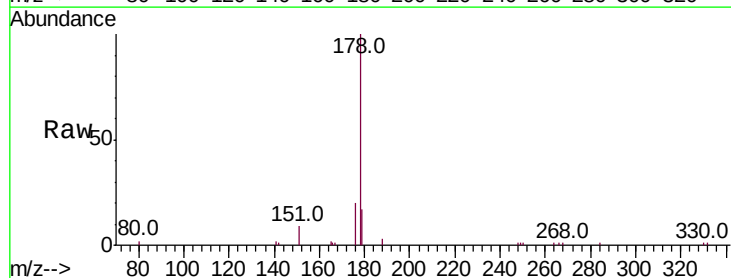
Tgt Ion:178 Resp: 7369

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.6  | 14.9  | 22.3  |
| 179 | 15.7  | 12.1  | 18.1  |

178 100

176 18.6 14.9 22.3

179 15.7 12.1 18.1



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

17.13

6000

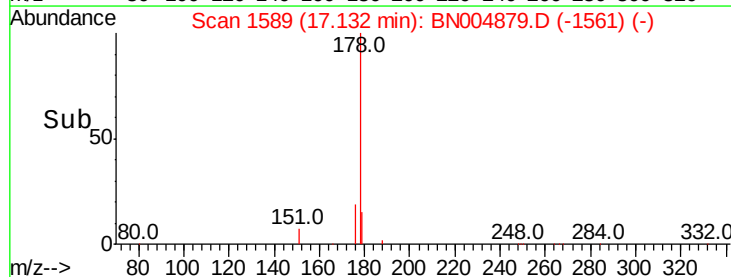
4000

2000

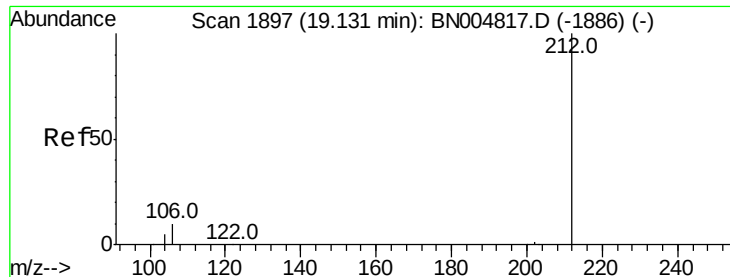
0

Time-->

17.00 17.10 17.20







#25

Fluoranthene-d10

Concen: 0.378 ng

RT: 19.13 min Scan# 1896

Delta R.T. -0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Instrument :

BNA\_N

ClientSampleId :

PST-026-B118-031819

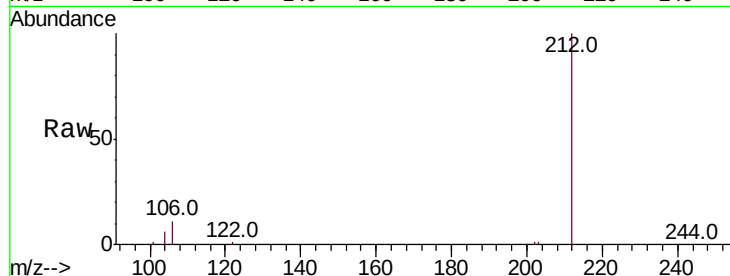
Tot Ion:212 Resp: 22359

Ion Ratio Lower Upper

212 100

106 11.6 8.6 13.0

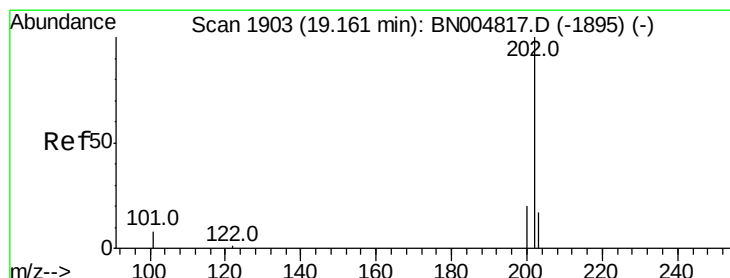
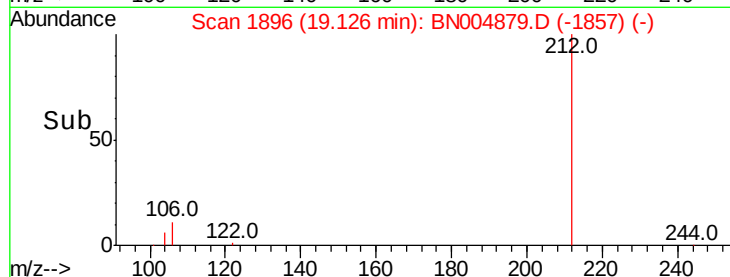
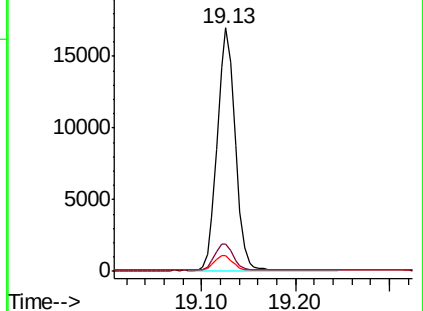
104 6.3 4.7 7.1



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: 0.157 ng

RT: 19.16 min Scan# 1902

Delta R.T. -0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

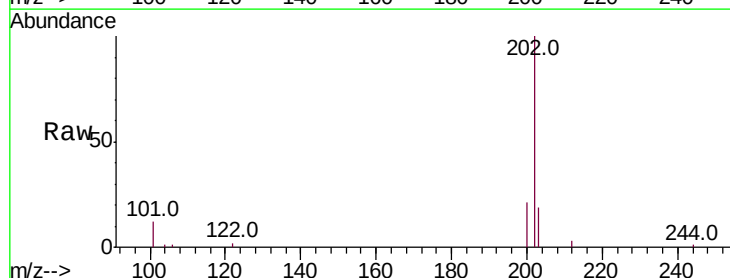
Tgt Ion:202 Resp: 11468

Ion Ratio Lower Upper

202 100

101 13.2 7.5 11.3#

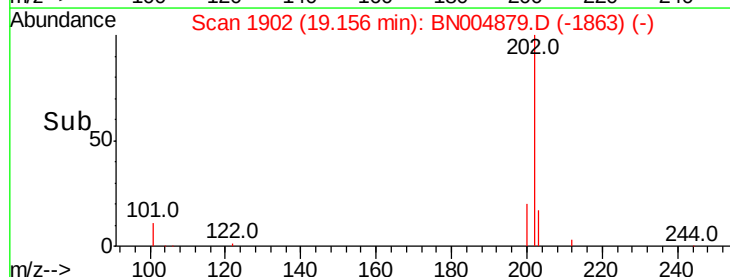
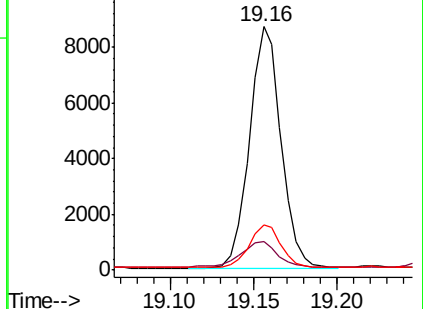
203 17.8 13.8 20.6

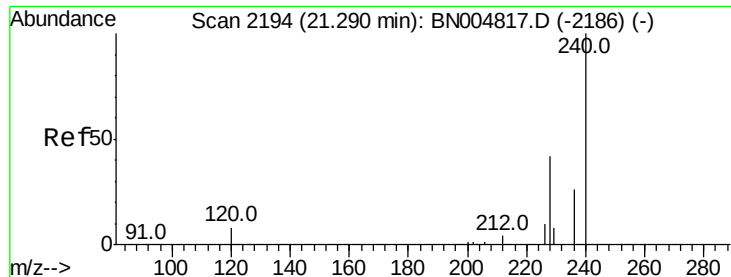


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.29 min Scan# 2194

Delta R.T. 0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Instrument :

BNA\_N

ClientSampleId :

PST-026-B118-031819

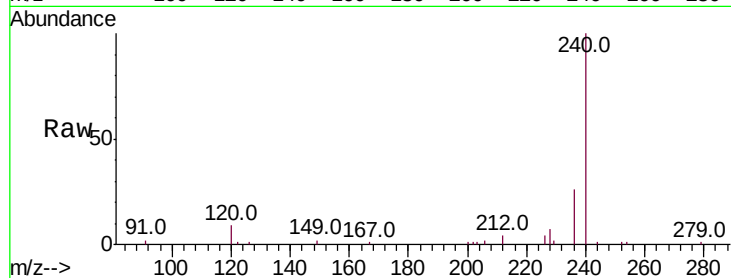
Tot Ion:240 Resp: 23389

Ion Ratio Lower Upper

240 100

120 8.8 7.2 10.8

236 26.3 20.9 31.3

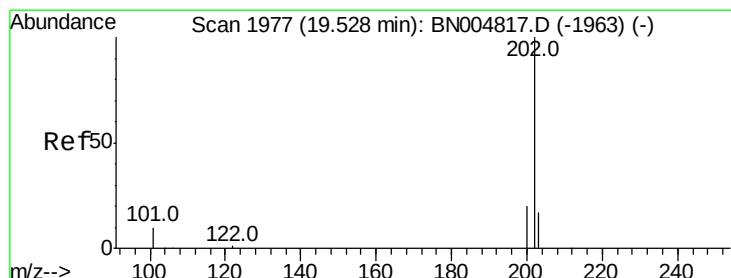
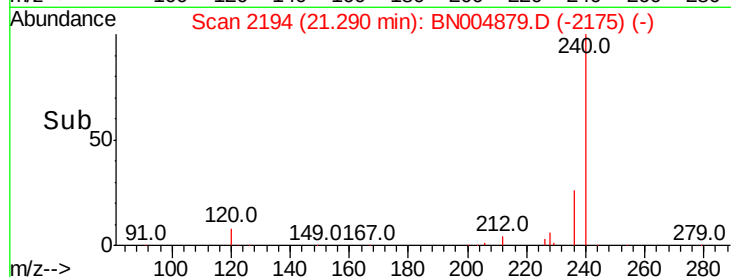
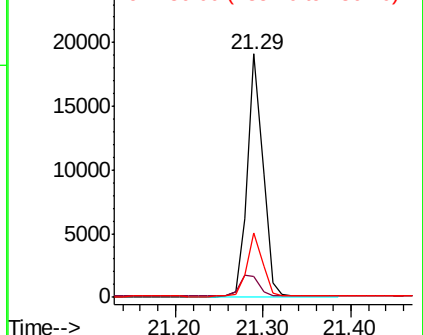


Abundance

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: 0.191 ng

RT: 19.52 min Scan# 1976

Delta R.T. -0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

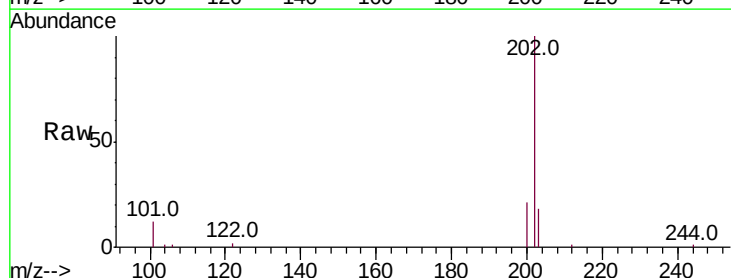
Tgt Ion:202 Resp: 13600

Ion Ratio Lower Upper

202 100

200 20.6 16.3 24.5

203 20.1 14.0 21.0

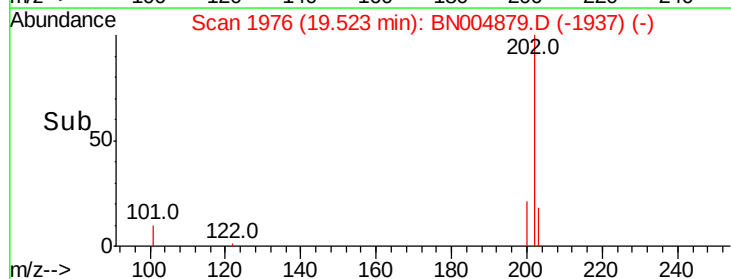
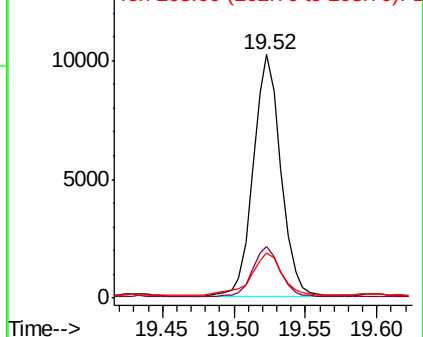


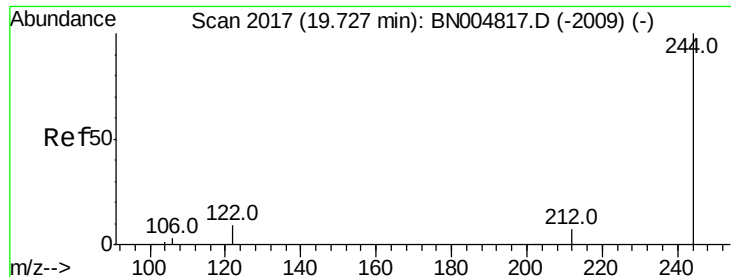
Abundance

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: 0.497 ng

RT: 19.72 min Scan# 2016

Delta R.T. -0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Instrument :

BNA\_N

ClientSampleId :

PST-026-B118-031819

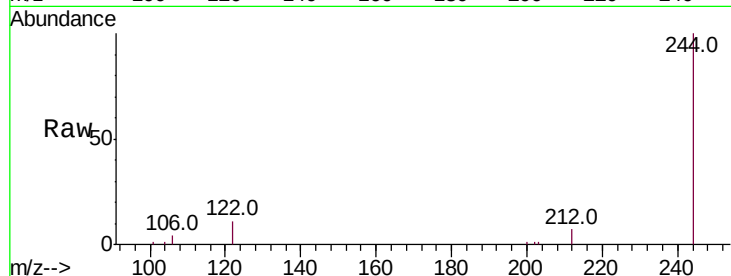
Tot Ion:244 Resp: 23805

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.6

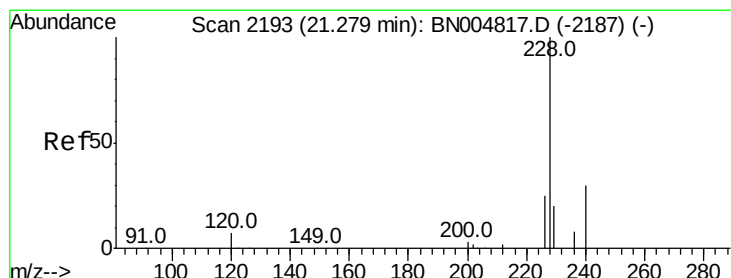
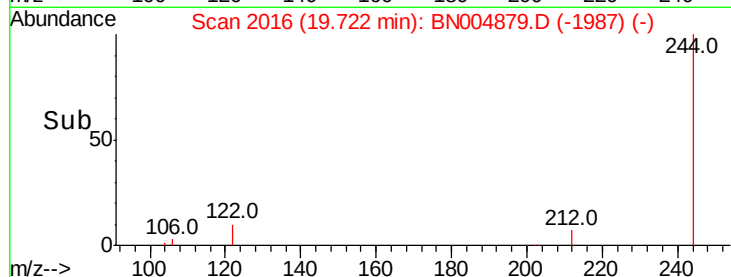
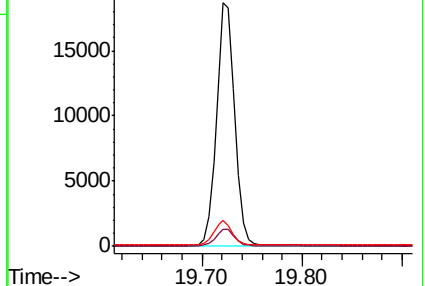
122 10.7 7.9 11.9



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: 0.084 ng

RT: 21.28 min Scan# 2193

Delta R.T. 0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

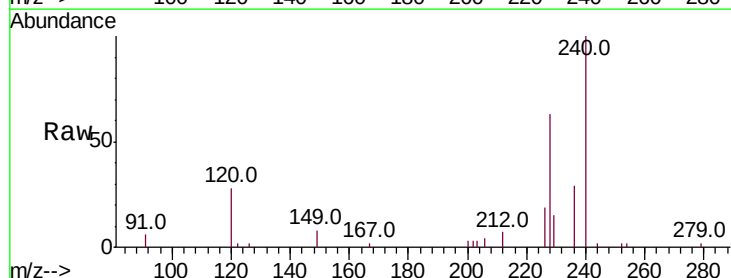
Tgt Ion:228 Resp: 6475

Ion Ratio Lower Upper

228 100

226 30.6 20.6 31.0

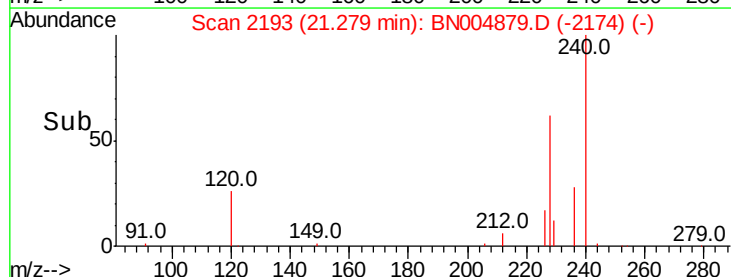
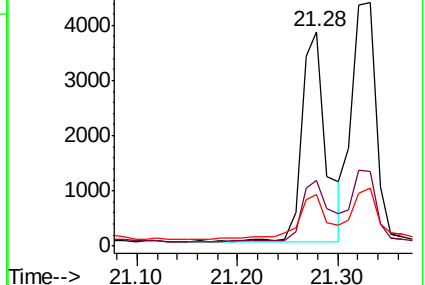
229 24.0 16.2 24.4

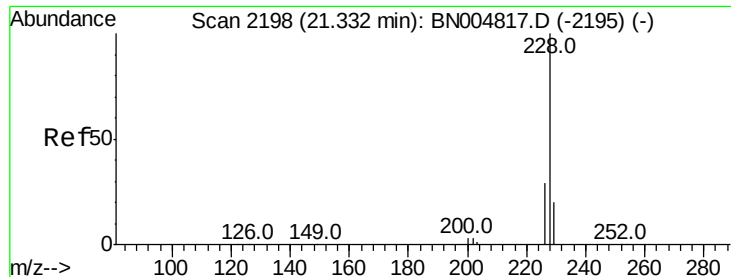


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.090 ng

RT: 21.33 min Scan# 2198

Delta R.T. 0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Instrument :

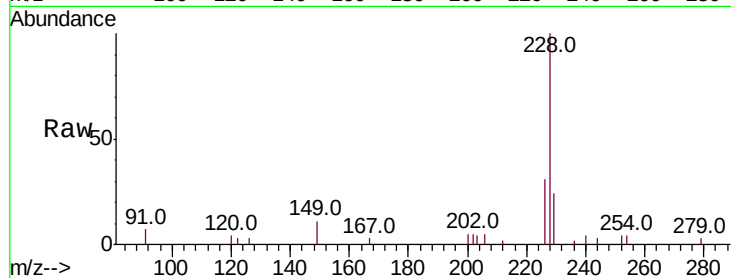
BNA\_N

ClientSampleId :

PST-026-B118-031819

Tot Ion:228 Resp: 7306

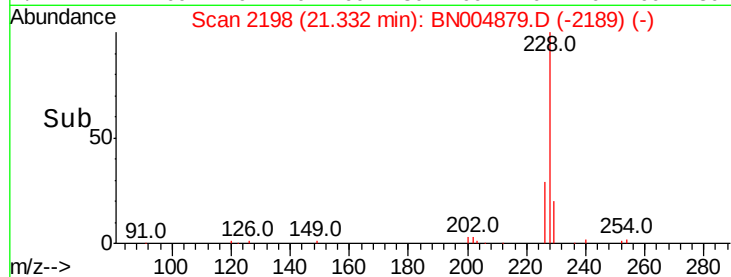
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.6  | 23.0  | 34.6  |
| 229 | 23.9  | 16.2  | 24.2  |



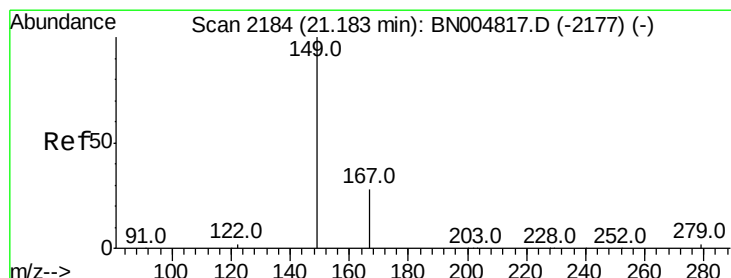
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.156 ng

RT: 21.18 min Scan# 2184

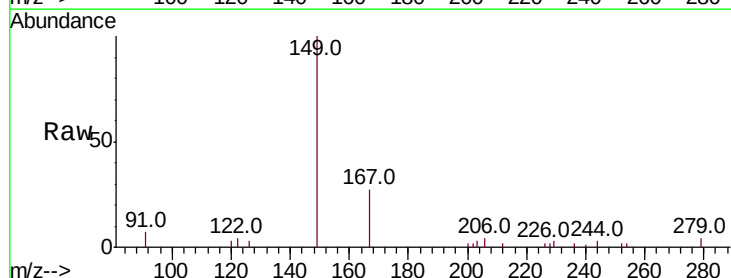
Delta R.T. 0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Tgt Ion:149 Resp: 4788

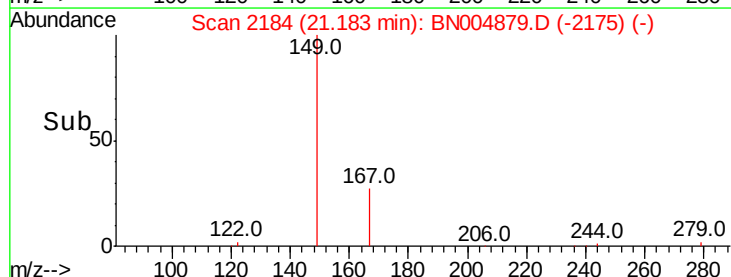
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 27.8  | 23.0  | 34.4  |
| 279 | 5.8   | 4.6   | 6.8   |



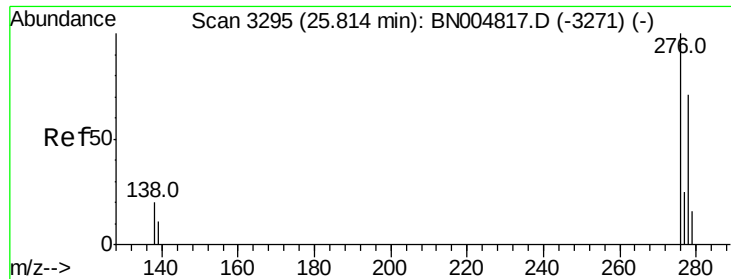
Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.038 ng

RT: 25.82 min Scan# 3297

Delta R.T. 0.01 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Instrument :

BNA\_N

ClientSampleId :

PST-026-B118-031819

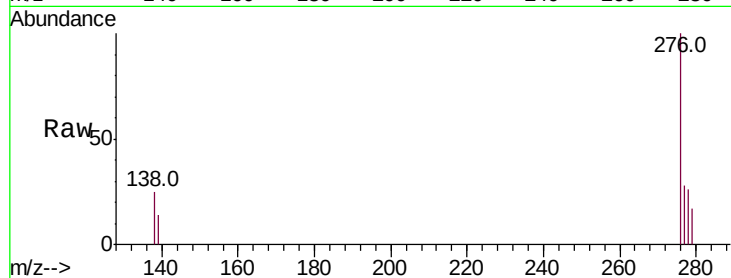
Tot Ion:276 Resp: 4423

Ion Ratio Lower Upper

276 100

138 20.9 16.6 24.8

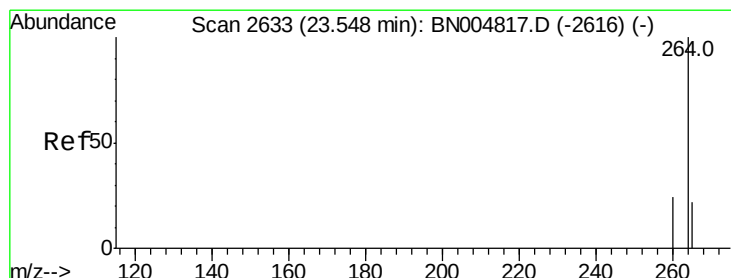
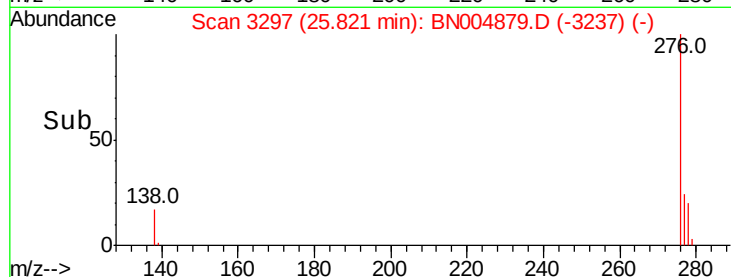
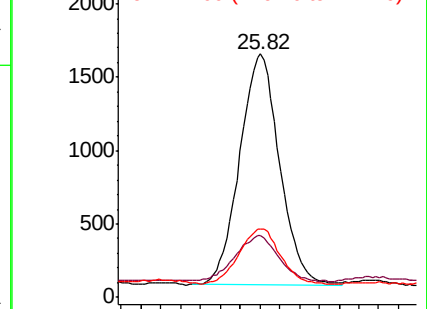
277 24.7 20.3 30.5



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: 23.54 min Scan# 2632

Delta R.T. -0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

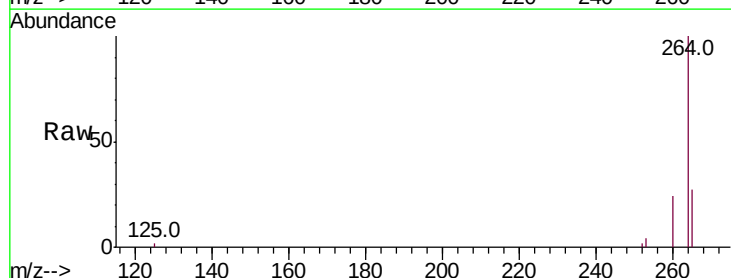
Tgt Ion:264 Resp: 25545

Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

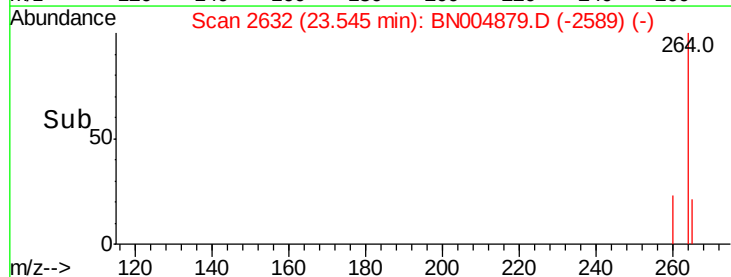
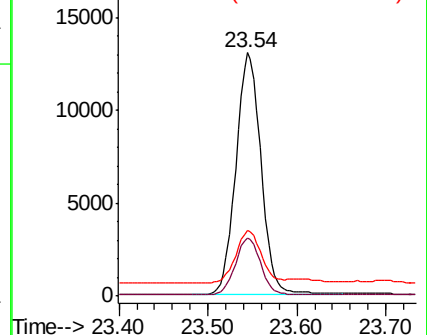
265 26.8 23.1 34.7

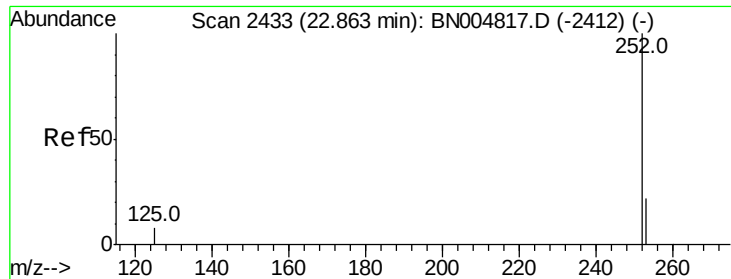


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.093 ng

RT: 22.87 min Scan# 2435

Delta R.T. 0.01 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Instrument :

BNA\_N

ClientSampleId :

PST-026-B118-031819

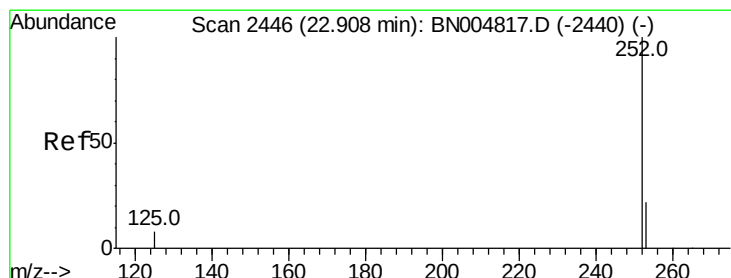
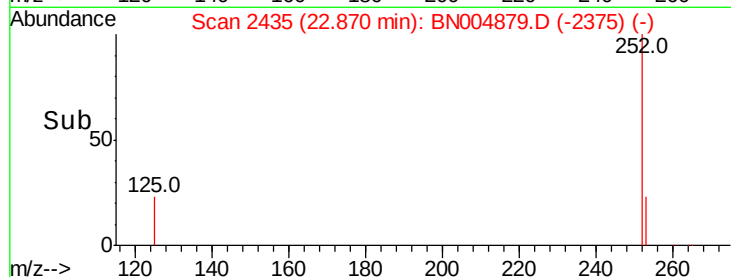
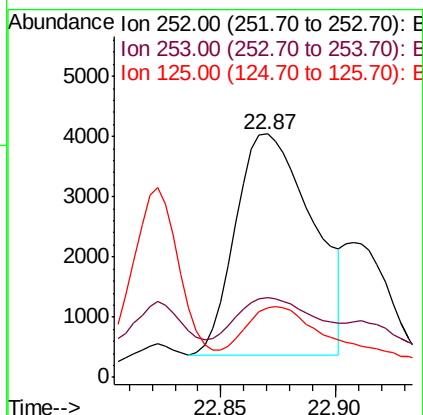
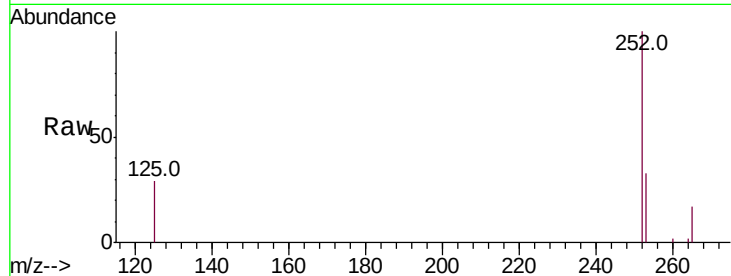
Tot Ion:252 Resp: 8577

Ion Ratio Lower Upper

252 100

253 32.8 19.0 28.4#

125 28.8 7.4 11.2#



#36

Benzo(k)fluoranthene

Concen: 0.094 ng

RT: 22.87 min Scan# 2435

Delta R.T. -0.04 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

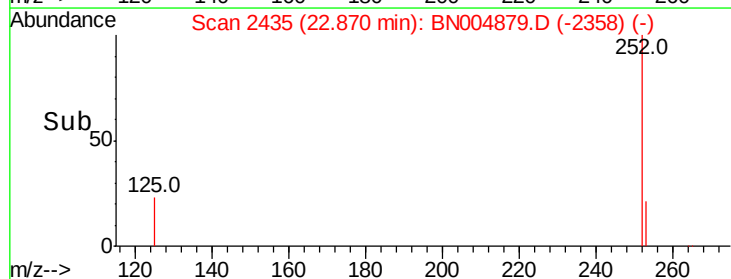
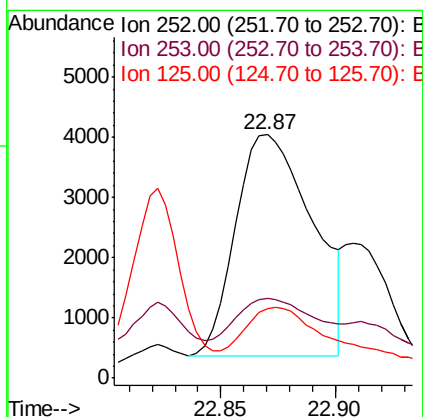
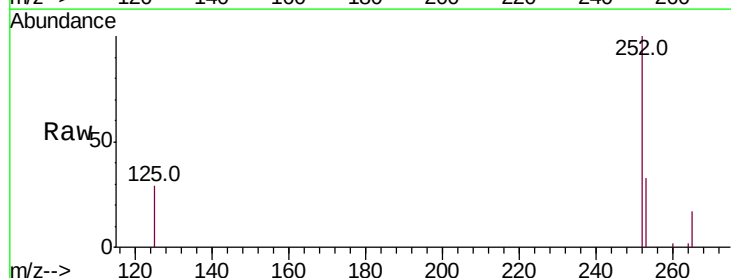
Tgt Ion:252 Resp: 8577

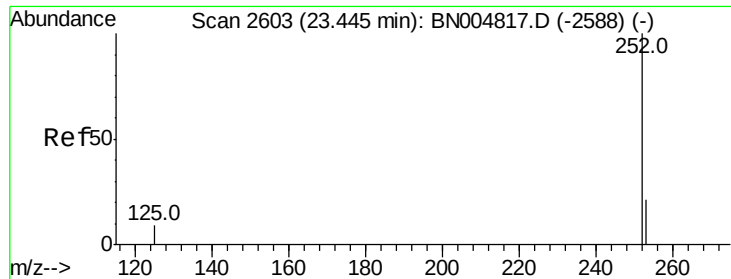
Ion Ratio Lower Upper

252 100

253 32.8 19.3 28.9#

125 28.8 7.4 11.0#





#37

Benzo(a)pyrene

Concen: 0.076 ng

RT: 23.45 min Scan# 2603

Delta R.T. 0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

Instrument :

BNA\_N

ClientSampleId :

PST-026-B118-031819

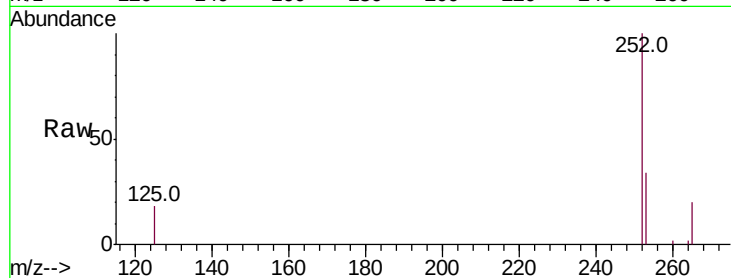
Tot Ion:252 Resp: 6455

Ion Ratio Lower Upper

252 100

253 33.7 19.7 29.5#

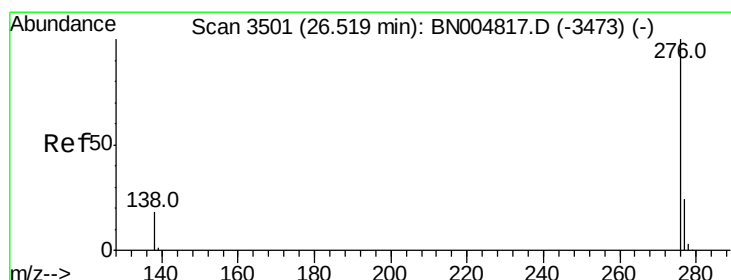
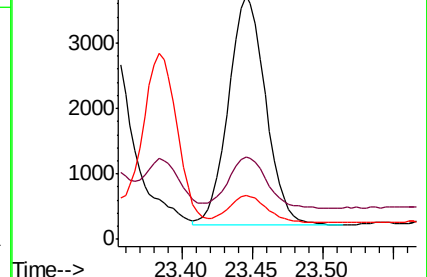
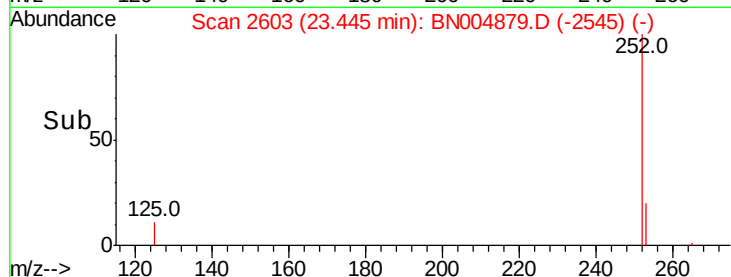
125 17.9 8.3 12.5#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.048 ng

RT: 26.52 min Scan# 3501

Delta R.T. 0.00 min

Lab File: BN004879.D

Acq: 22 Mar 2019 08:20

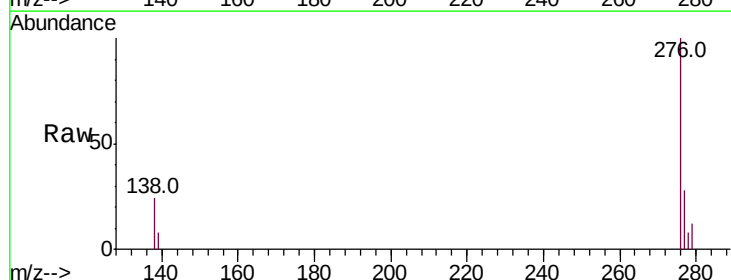
Tgt Ion:276 Resp: 4767

Ion Ratio Lower Upper

276 100

277 27.6 19.7 29.5

138 24.4 14.6 22.0#



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

