

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN082019\  
 Data File : BN007272.D  
 Acq On : 20 Aug 2019 19:39  
 Operator : HP/JU  
 Sample : K4409-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S300-J-1.5-2.0-081919

Quant Time: Aug 20 20:10:05 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN082019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Aug 20 18:52:43 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.41  | 152  | 5471     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.16 | 136  | 20418    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.06 | 164  | 11838    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.80 | 188  | 28223    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.03 | 240  | 29594    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.14 | 264  | 32886    | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| 4) 2-Fluorophenol           | 5.04  | 112 | 3893  | 0.23 | ng | 0.00 |
| 5) Phenol-d6                | 6.60  | 99  | 4998  | 0.26 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.54  | 82  | 3699  | 0.24 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.77 | 152 | 8596  | 0.24 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.55 | 330 | 1687  | 0.25 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 12.68 | 172 | 11300 | 0.22 | ng | 0.00 |
| 25) Fluoranthene-d10        | 18.85 | 212 | 19392 | 0.22 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.47 | 244 | 14070 | 0.19 | ng | 0.00 |

#### Target Compounds

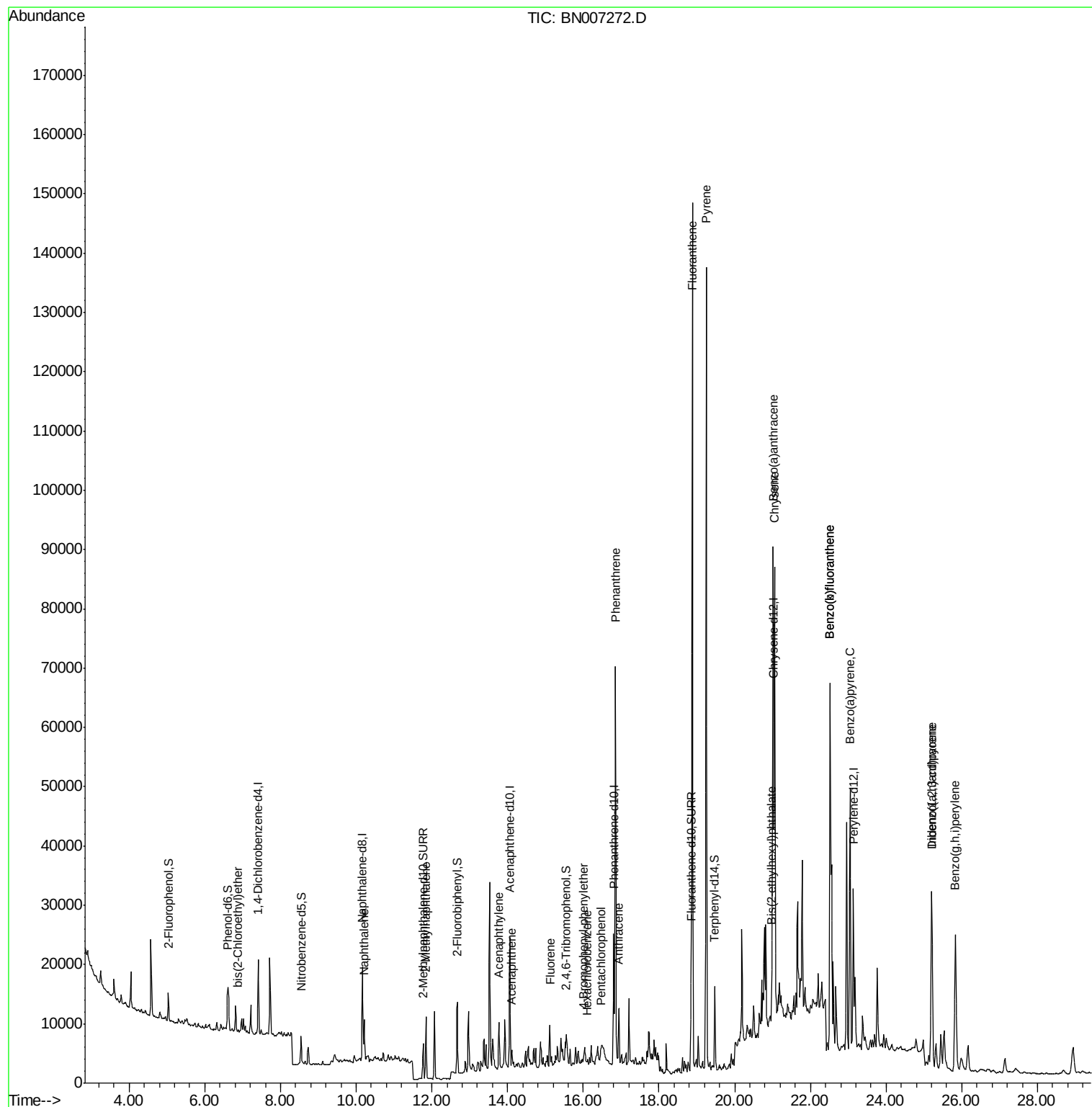
|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 6) bis(2-Chloroethyl)ether     | 6.86  | 93  | 107    | 0.007 | ng | # 32   |
| 9) Naphthalene                 | 10.22 | 128 | 7475   | 0.129 | ng | 96     |
| 12) 2-Methylnaphthalene        | 11.84 | 142 | 7474   | 0.187 | ng | 98     |
| 16) Acenaphthylene             | 13.77 | 152 | 8582   | 0.137 | ng | # 95   |
| 17) Acenaphthene               | 14.11 | 154 | 1551   | 0.039 | ng | # 88   |
| 18) Fluorene                   | 15.12 | 166 | 2918   | 0.056 | ng | # 94   |
| 20) 4-Bromophenyl-phenylether  | 16.01 | 248 | 141    | 0.009 | ng | # 1    |
| 21) Hexachlorobenzene          | 16.10 | 284 | 18     | 0.001 | ng | # 5    |
| 22) Pentachlorophenol          | 16.46 | 266 | 78     | 0.010 | ng | # 64   |
| 23) Phenanthrene               | 16.85 | 178 | 66878  | 0.756 | ng | 100    |
| 24) Anthracene                 | 16.93 | 178 | 10208  | 0.128 | ng | # 95   |
| 26) Fluoranthene               | 18.88 | 202 | 130856 | 1.221 | ng | 100    |
| 28) Pyrene                     | 19.25 | 202 | 125931 | 1.138 | ng | 96     |
| 30) Benzo(a)anthracene         | 21.02 | 228 | 68939  | 0.626 | ng | # 90   |
| 31) Chrysene                   | 21.06 | 228 | 70652  | 0.629 | ng | 97     |
| 32) Bis(2-ethylhexyl)phthalate | 20.98 | 149 | 6788   | 0.154 | ng | # 97   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.20 | 276 | 46746  | 0.346 | ng | 98     |
| 35) Benzo(b)fluoranthene       | 22.52 | 252 | 97509  | 0.795 | ng | 98     |
| 36) Benzo(k)fluoranthene       | 22.52 | 252 | 97509  | 0.812 | ng | 98     |
| 37) Benzo(a)pyrene             | 23.04 | 252 | 62809  | 0.568 | ng | 98     |
| 38) Dibenzo(a,h)anthracene     | 25.21 | 278 | 12306  | 0.106 | ng | # 77   |
| 39) Benzo(g,h,i)perylene       | 25.83 | 276 | 46374  | 0.395 | ng | 98     |

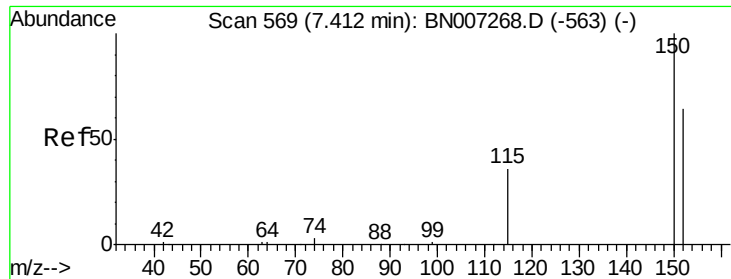
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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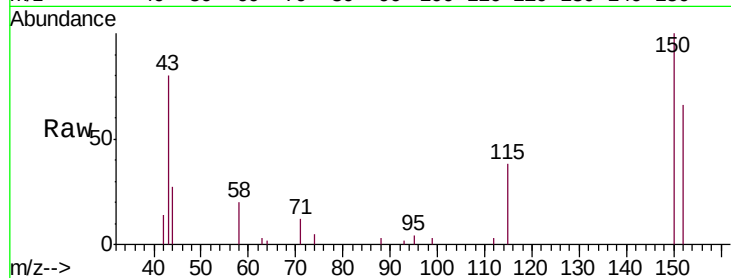


#1

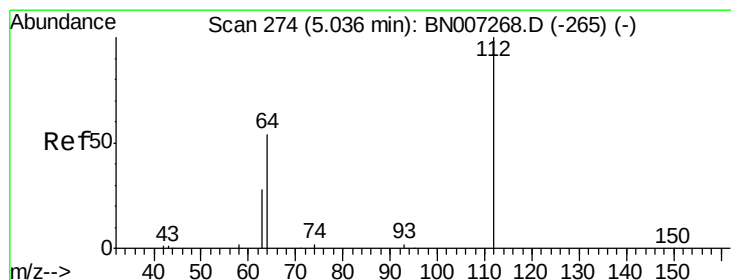
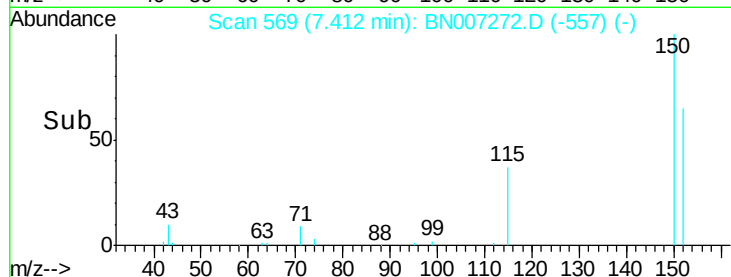
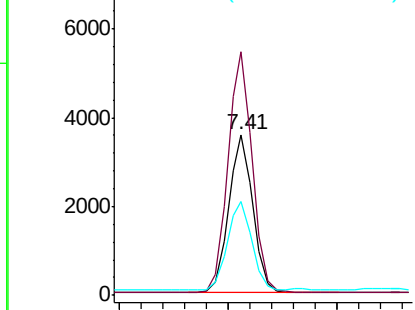
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.41 min Scan# 569  
 Delta R.T. 0.00 min  
 Lab File: BN007272.D  
 Acq: 20 Aug 2019 19:39

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S300-J-1.5-2.0-081919

Tgt Ion:152 Resp: 5471  
 Ion Ratio Lower Upper  
 152 100  
 150 151.4 123.8 185.8  
 115 58.1 47.3 70.9



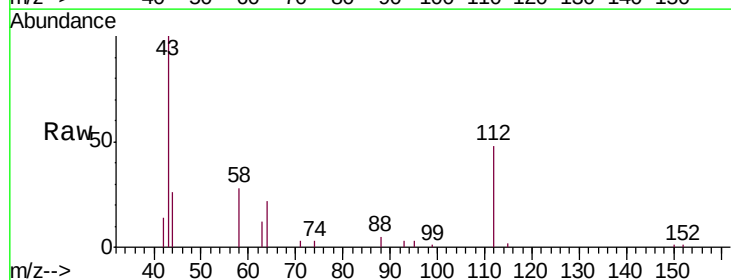
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



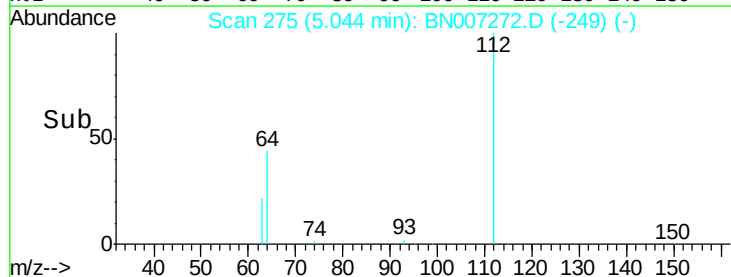
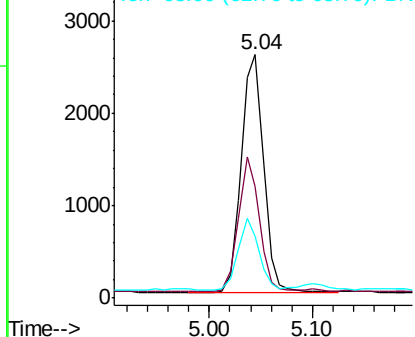
#4

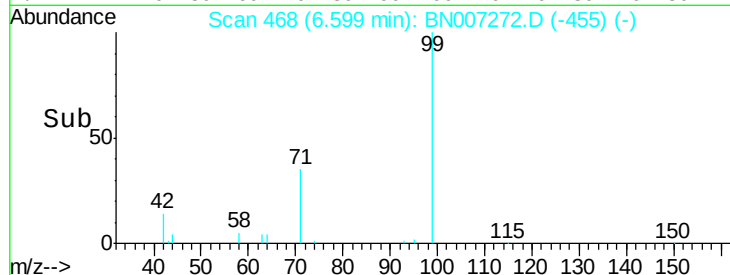
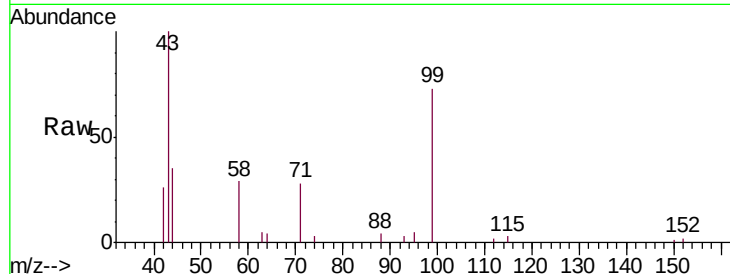
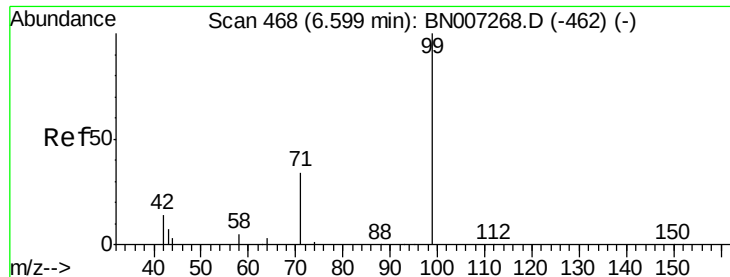
2-Fluorophenol  
 Concen: 0.233 ng  
 RT: 5.04 min Scan# 275  
 Delta R.T. 0.01 min  
 Lab File: BN007272.D  
 Acq: 20 Aug 2019 19:39

Tgt Ion:112 Resp: 3893  
 Ion Ratio Lower Upper  
 112 100  
 64 52.0 41.8 62.8  
 63 27.8 22.6 34.0



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: 0.255 ng

RT: 6.60 min Scan# 468

Delta R.T. 0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

Instrument :

BNA\_N

ClientSampleId :

S300-J-1.5-2.0-081919

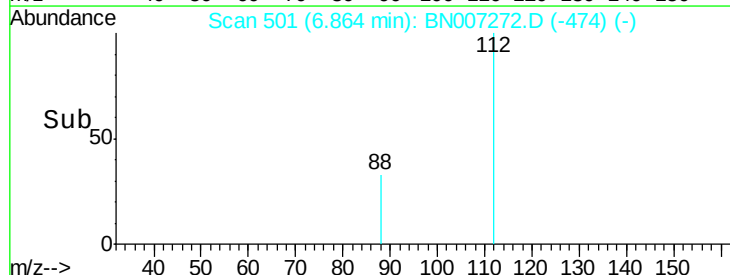
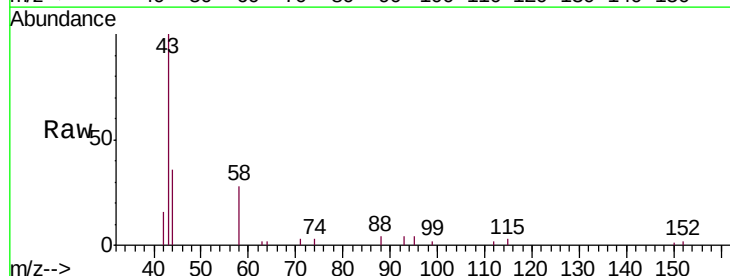
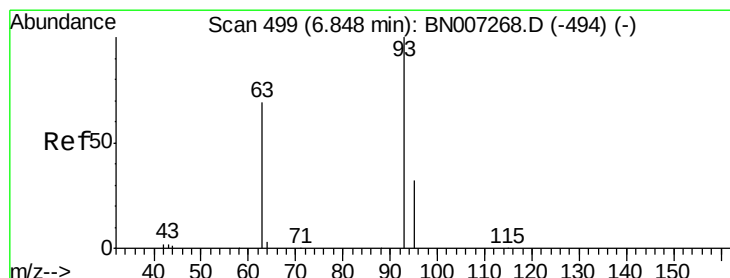
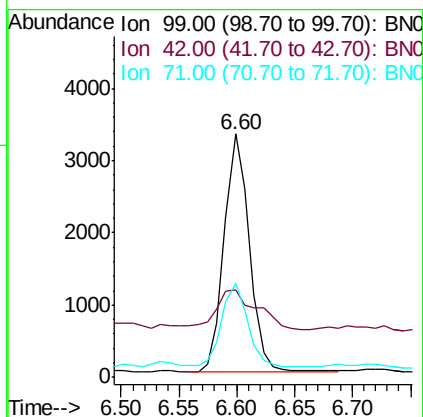
Tgt Ion: 99 Resp: 4998

Ion Ratio Lower Upper

99 100

42 29.1 14.3 21.5#

71 36.7 27.3 40.9



#6

bis(2-Chloroethyl)ether

Concen: 0.007 ng

RT: 6.86 min Scan# 501

Delta R.T. 0.02 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

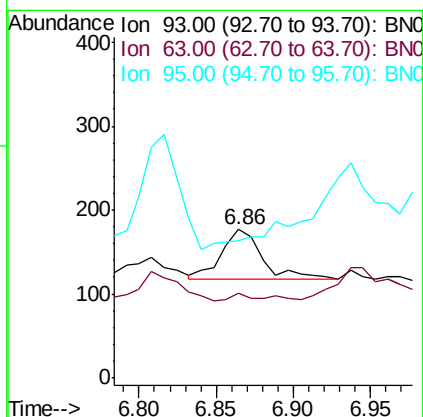
Tgt Ion: 93 Resp: 107

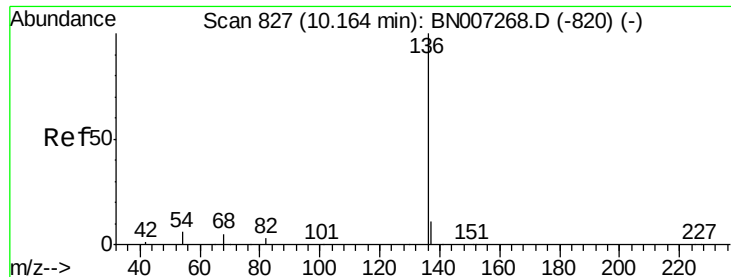
Ion Ratio Lower Upper

93 100

63 9.3 54.4 81.6#

95 0.0 25.5 38.3#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.16 min Scan# 827

Delta R.T. 0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

Instrument :

BNA\_N

ClientSampleId :

S300-J-1.5-2.0-081919

Tgt Ion:136 Resp: 20418

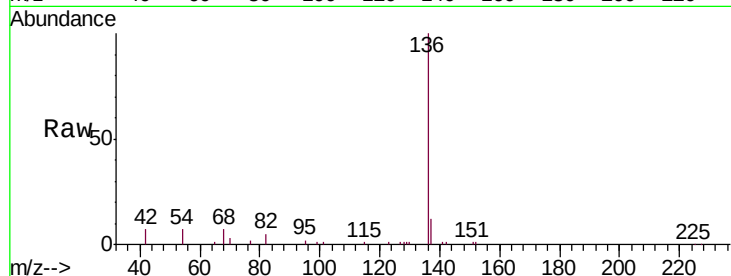
Ion Ratio Lower Upper

136 100

137 11.6 9.1 13.7

54 7.4 5.9 8.9

68 7.4 5.6 8.4

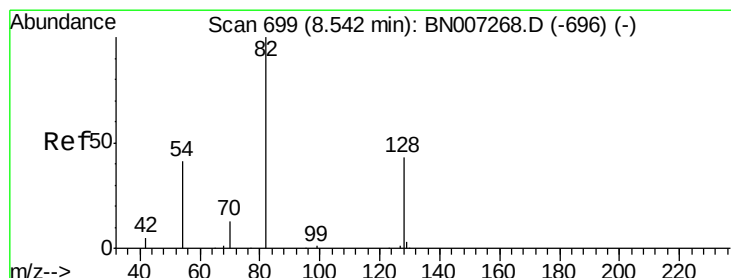
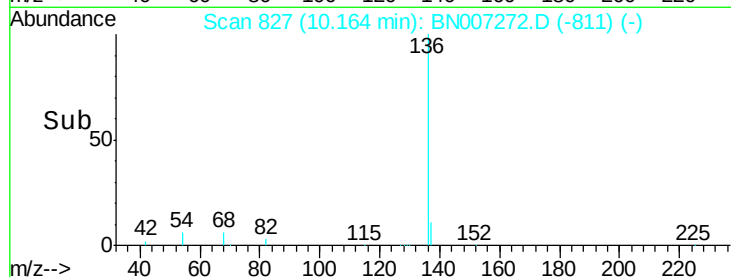
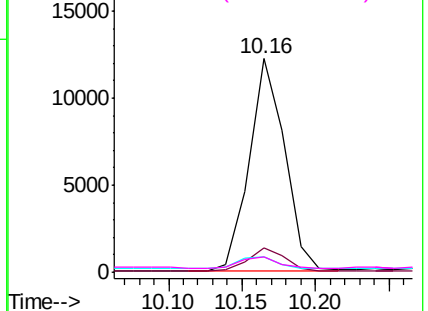


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.236 ng

RT: 8.54 min Scan# 699

Delta R.T. 0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

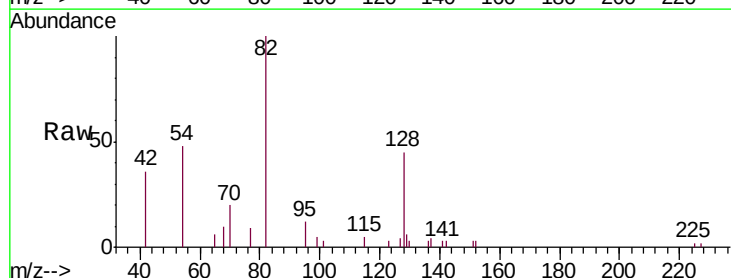
Tgt Ion: 82 Resp: 3699

Ion Ratio Lower Upper

82 100

128 45.2 35.8 53.6

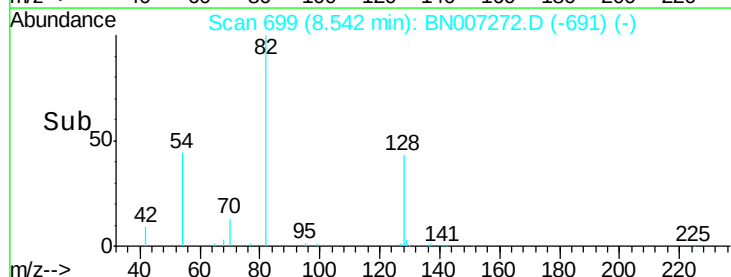
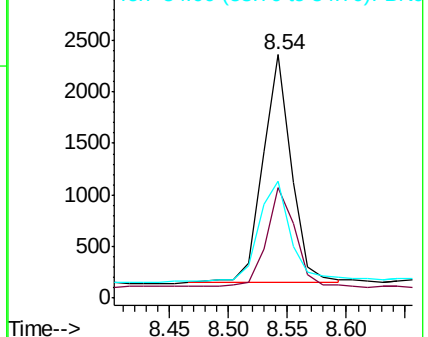
54 47.9 34.7 52.1

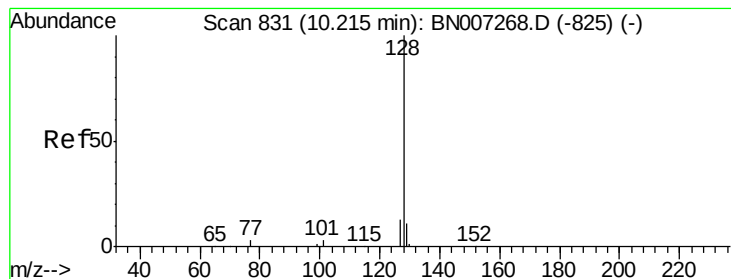


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.129 ng

RT: 10.22 min Scan# 831

Delta R.T. 0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

Instrument :

BNA\_N

ClientSampleId :

S300-J-1.5-2.0-081919

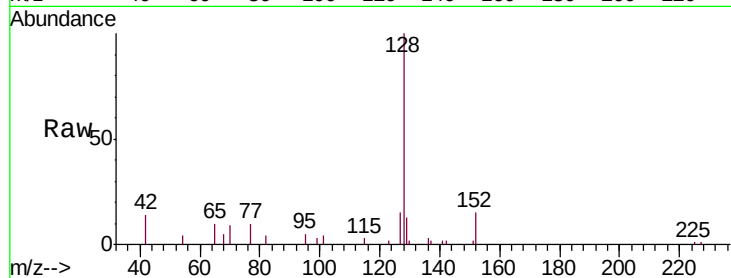
Tgt Ion:128 Resp: 7475

Ion Ratio Lower Upper

128 100

129 12.9 9.1 13.7

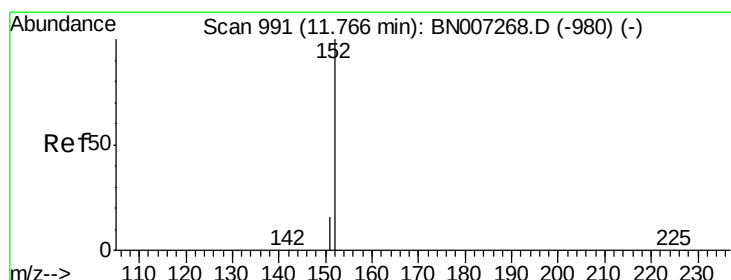
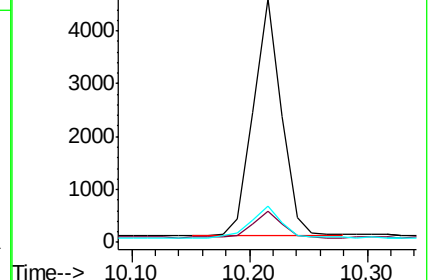
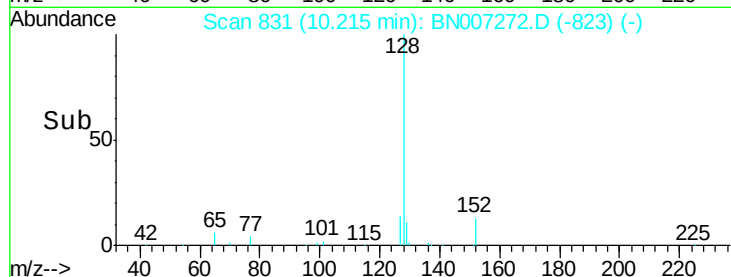
127 15.1 10.6 16.0



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



#11

2-Methylnaphthalene-d10

Concen: 0.244 ng

RT: 11.77 min Scan# 991

Delta R.T. 0.00 min

Lab File: BN007272.D

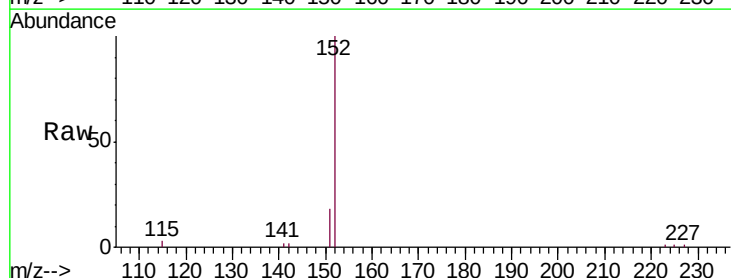
Acq: 20 Aug 2019 19:39

Tgt Ion:152 Resp: 8596

Ion Ratio Lower Upper

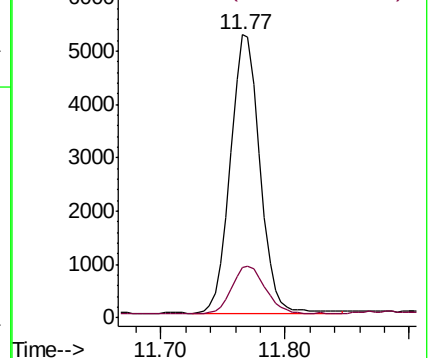
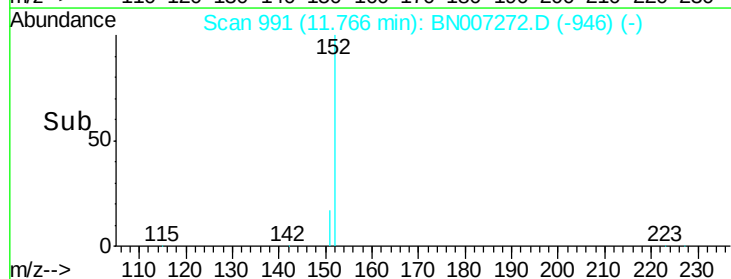
152 100

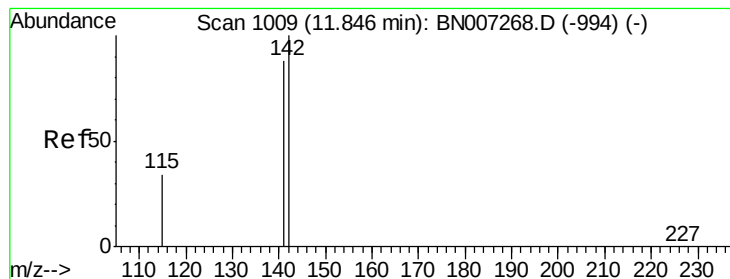
151 19.4 15.2 22.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.187 ng

RT: 11.84 min Scan# 1008

Delta R.T. -0.00 min

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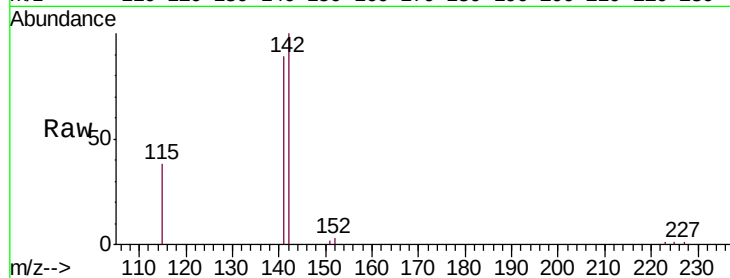
Tgt Ion:142 Resp: 7474

Ion Ratio Lower Upper

142 100

141 89.4 70.7 106.1

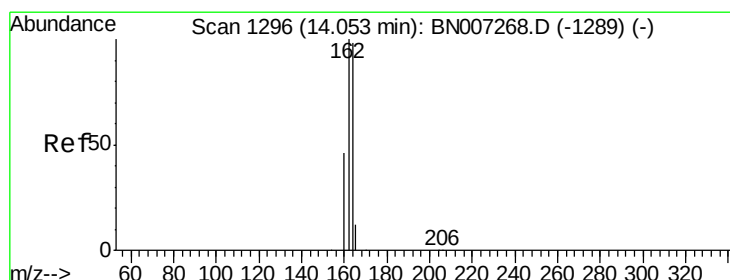
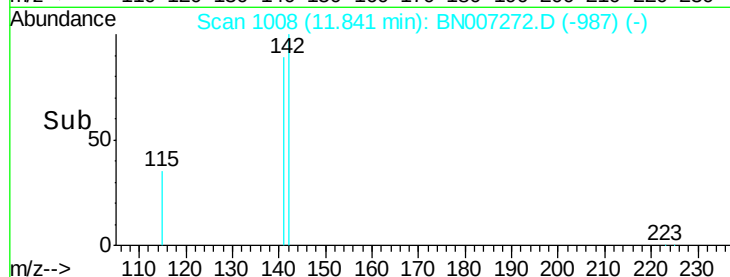
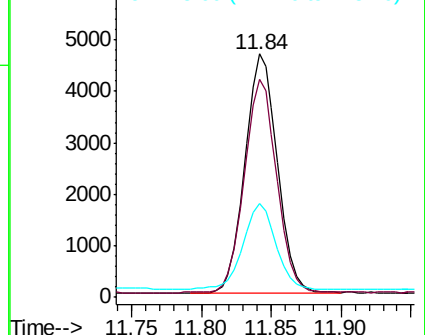
115 38.3 28.1 42.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.06 min Scan# 1297

Delta R.T. 0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

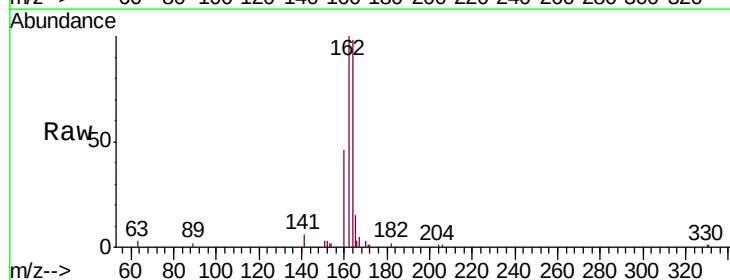
Tgt Ion:164 Resp: 11838

Ion Ratio Lower Upper

164 100

162 101.6 82.0 123.0

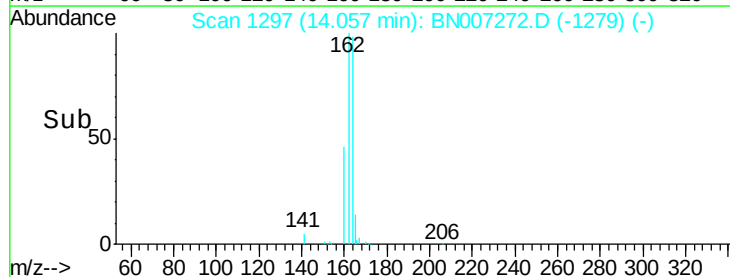
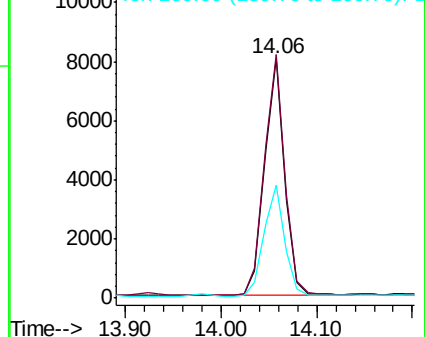
160 47.1 38.2 57.4

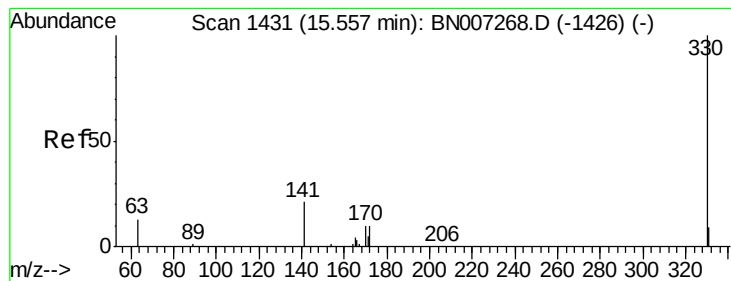


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#14

2,4,6-Tribromophenol

Concen: 0.254 ng

RT: 15.55 min Scan# 1431

Delta R.T. -0.01 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

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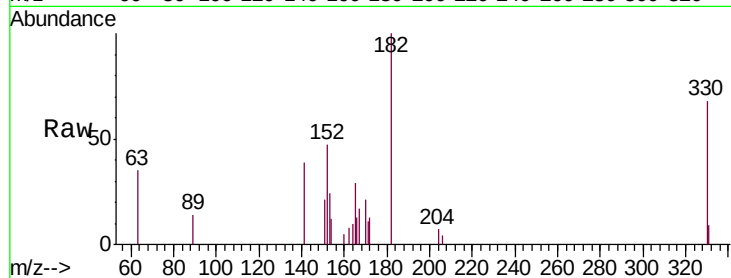
Tgt Ion:330 Resp: 1687

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

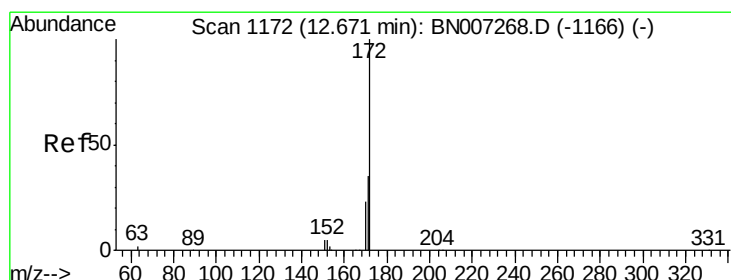
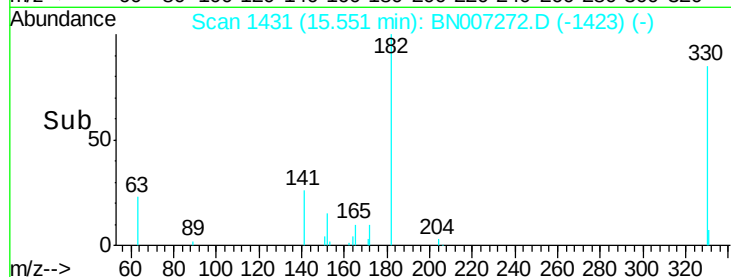
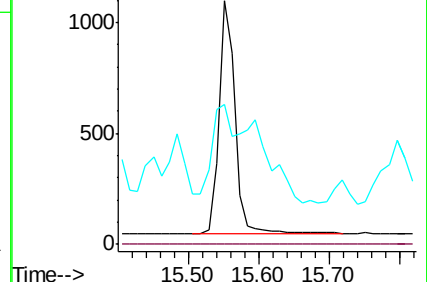
141 56.7 30.3 45.5#



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: 0.223 ng

RT: 12.68 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

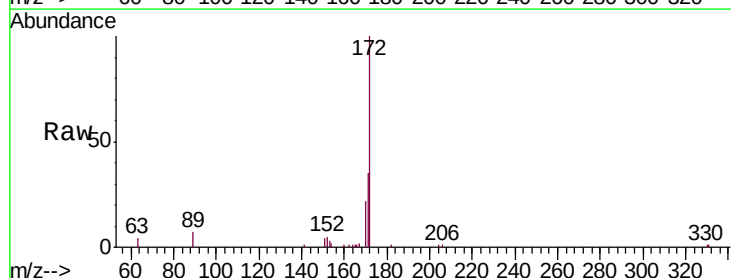
Tgt Ion:172 Resp: 11300

Ion Ratio Lower Upper

172 100

171 34.7 28.6 43.0

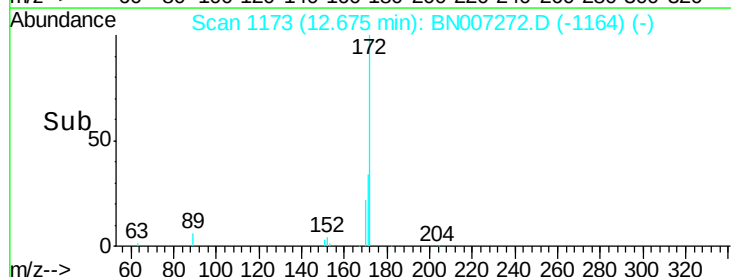
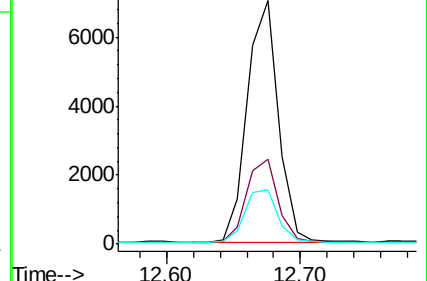
170 22.2 18.7 28.1



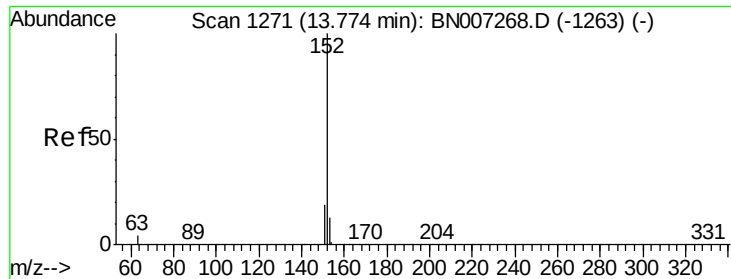
Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E







#16

Acenaphthylene

Concen: 0.137 ng

RT: 13.77 min Scan# 1271

Delta R.T. -0.01 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

Instrument :

BNA\_N

ClientSampleId :

S300-J-1.5-2.0-081919

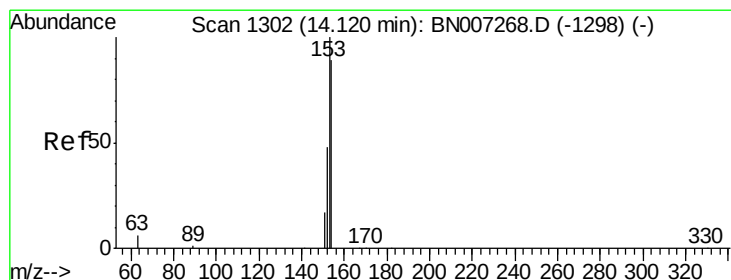
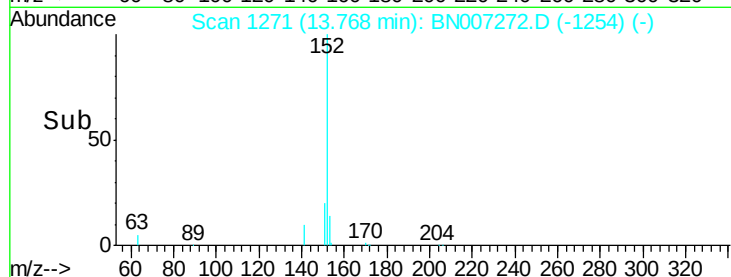
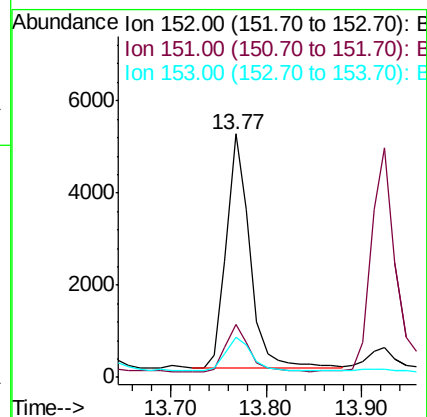
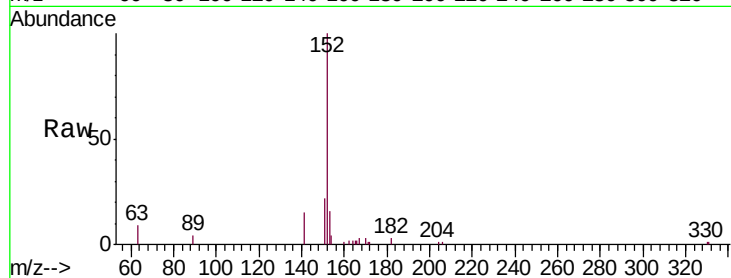
Tgt Ion:152 Resp: 8582

Ion Ratio Lower Upper

152 100

151 20.8 15.4 23.2

153 15.9 10.1 15.1#



#17

Acenaphthene

Concen: 0.039 ng

RT: 14.11 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

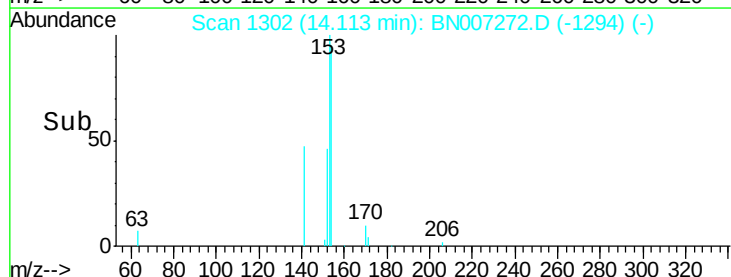
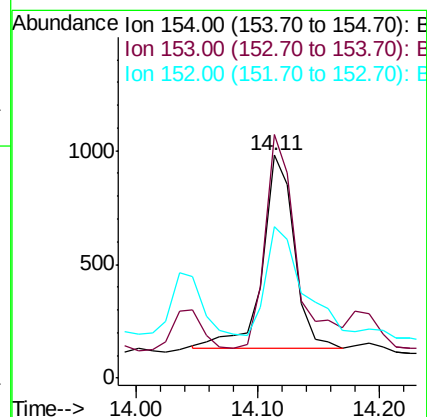
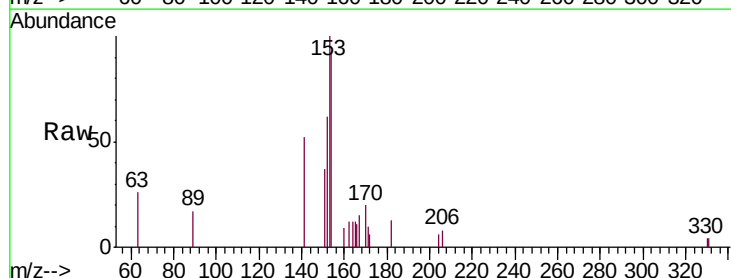
Tgt Ion:154 Resp: 1551

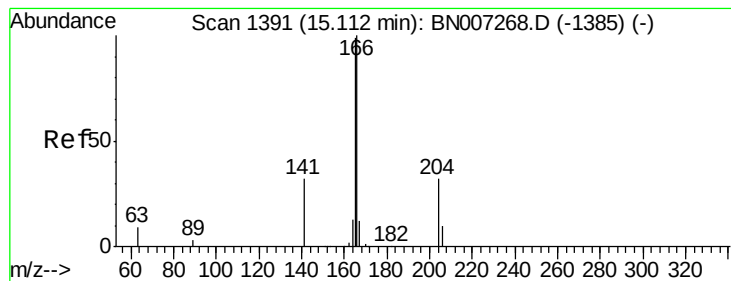
Ion Ratio Lower Upper

154 100

153 110.2 89.9 134.9

152 77.2 43.9 65.9#





#18

Fluorene

Concen: 0.056 ng

RT: 15.12 min Scan# 1392

Delta R.T. 0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

Instrument :

BNA\_N

ClientSampleId :

S300-J-1.5-2.0-081919

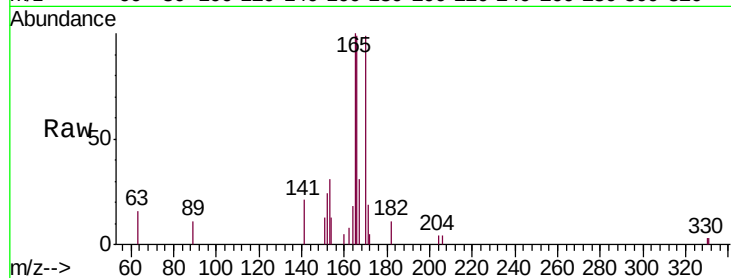
Tgt Ion:166 Resp: 2918

Ion Ratio Lower Upper

166 100

165 103.2 78.3 117.5

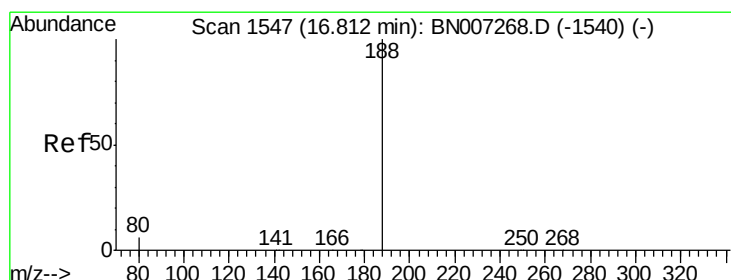
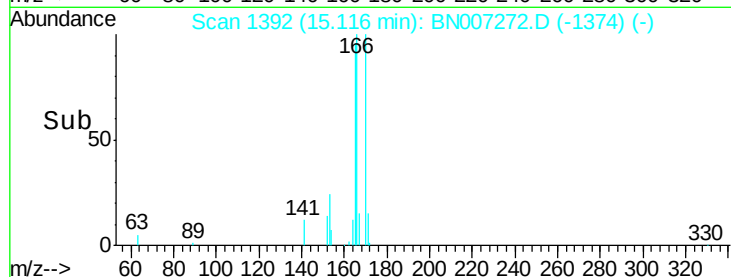
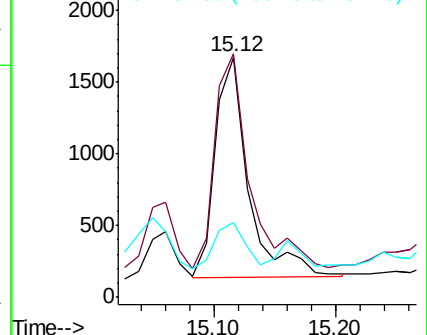
167 19.0 11.1 16.7#



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. -0.01 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

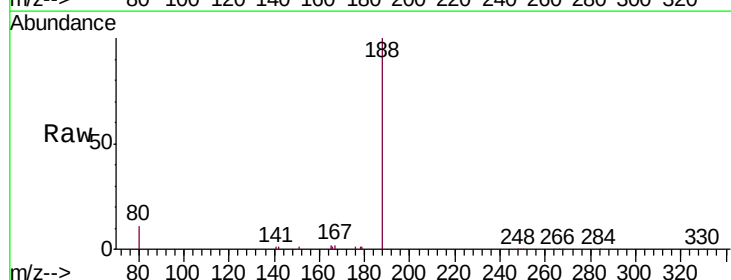
Tgt Ion:188 Resp: 28223

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

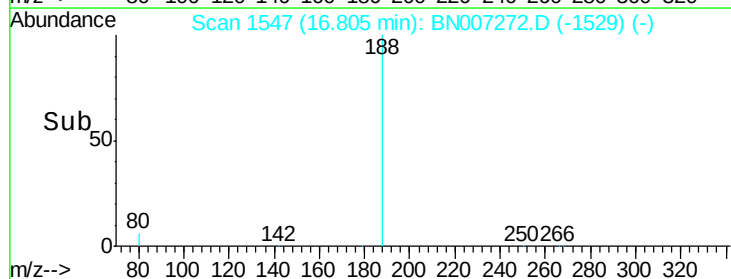
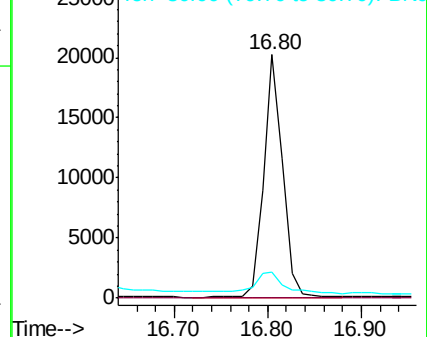
80 10.8 5.2 7.8#

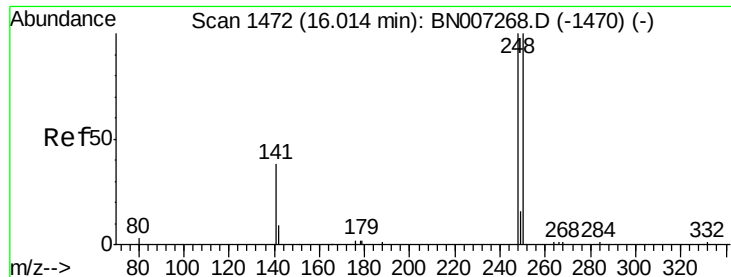


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC

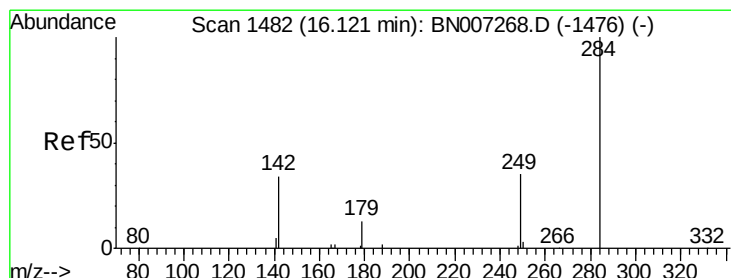
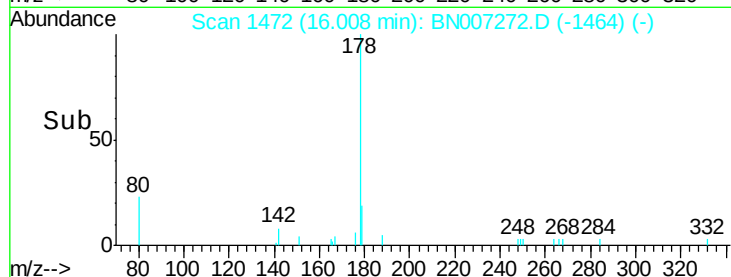
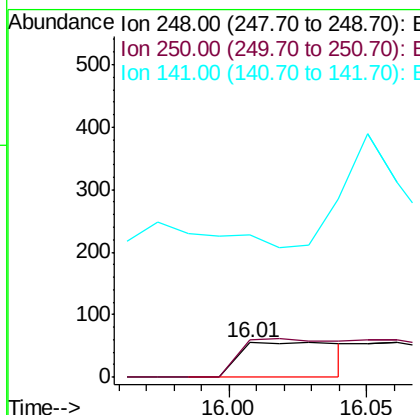
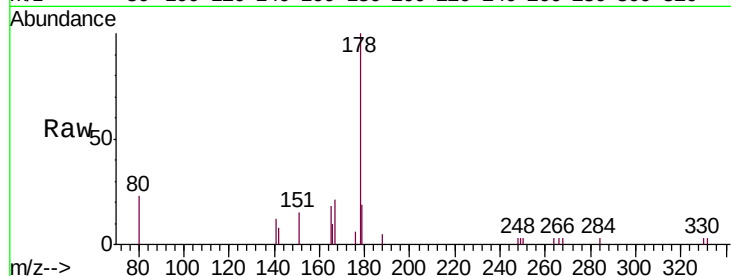




#20  
4-Bromophenyl-phenylether  
Concen: 0.009 ng  
RT: 16.01 min Scan# 1472  
Delta R.T. -0.01 min  
Lab File: BN007272.D  
Acq: 20 Aug 2019 19:39

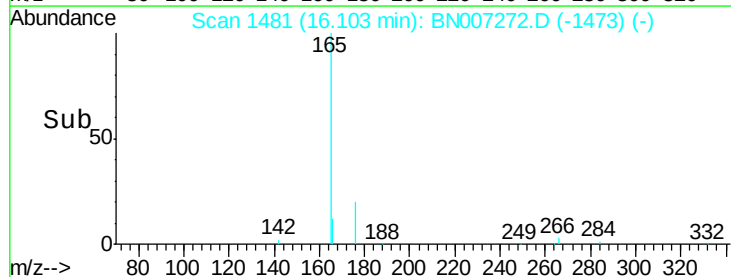
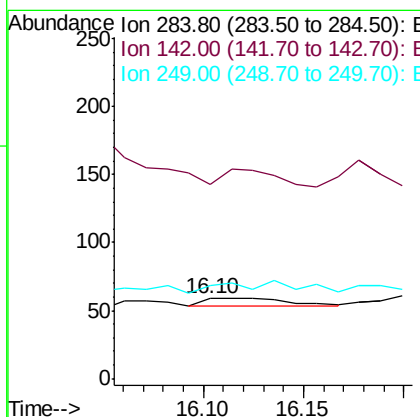
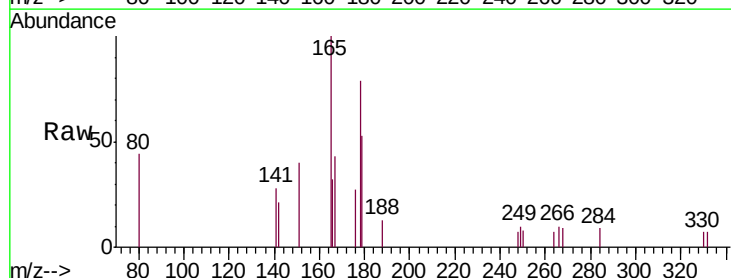
Instrument :  
BNA\_N  
ClientSampleId :  
S300-J-1.5-2.0-081919

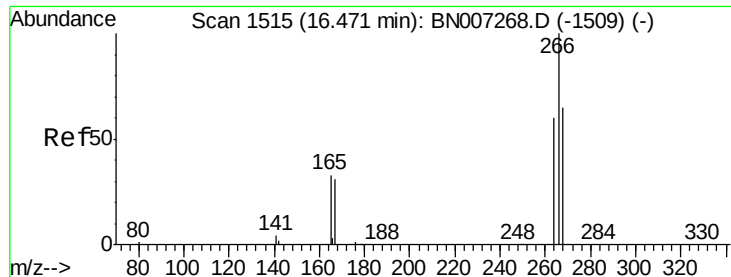
Tgt Ion:248 Resp: 141  
Ion Ratio Lower Upper  
248 100  
250 109.1 79.6 119.4  
141 412.7 45.1 67.7#



#21  
Hexachlorobenzene  
Concen: 0.001 ng  
RT: 16.10 min Scan# 1481  
Delta R.T. -0.02 min  
Lab File: BN007272.D  
Acq: 20 Aug 2019 19:39

Tgt Ion:284 Resp: 18  
Ion Ratio Lower Upper  
284 100  
142 122.2 29.5 44.3#  
249 55.6 26.2 39.4#

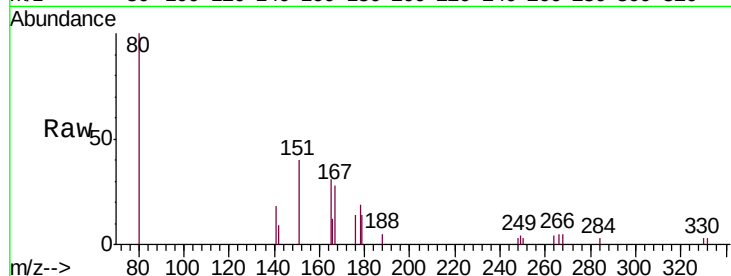




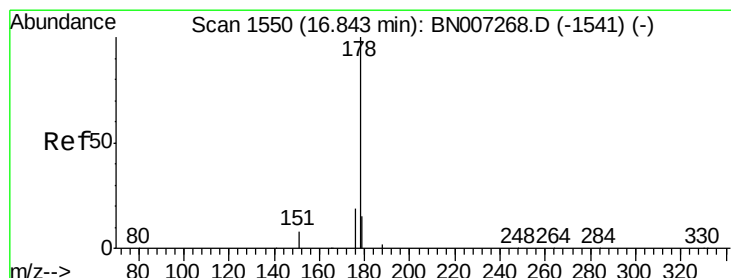
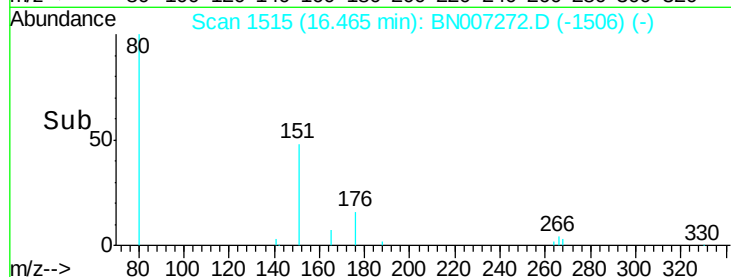
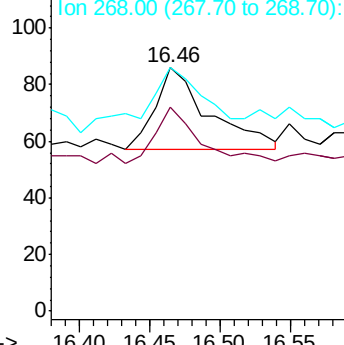
#22  
 Pentachlorophenol  
 Concen: 0.010 ng  
 RT: 16.46 min Scan# 1515  
 Delta R.T. -0.01 min  
 Lab File: BN007272.D  
 Acq: 20 Aug 2019 19:39

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S300-J-1.5-2.0-081919

Tgt Ion: 266 Resp: 78  
 Ion Ratio Lower Upper  
 266 100  
 264 83.7 48.7 73.1#  
 268 100.0 53.5 80.3#

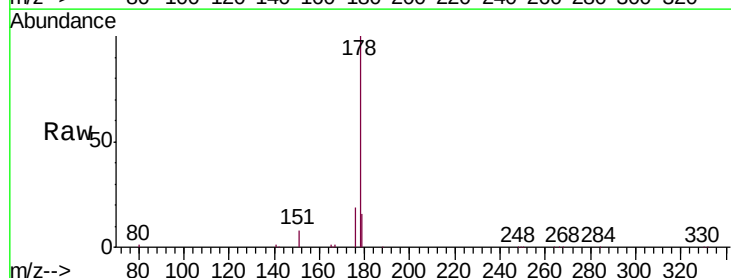


Abundance Ion 266.00 (265.70 to 266.70): E  
 Ion 264.00 (263.70 to 264.70): E  
 Ion 268.00 (267.70 to 268.70): E

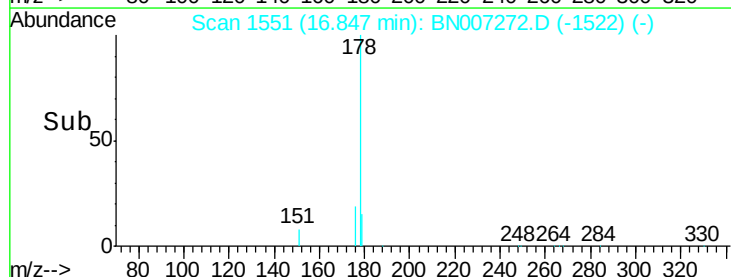
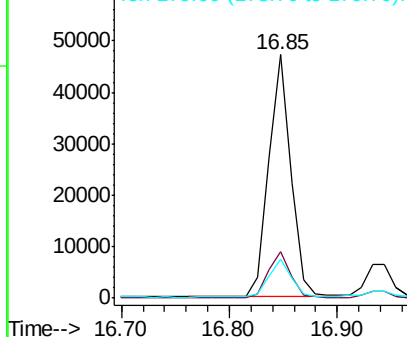


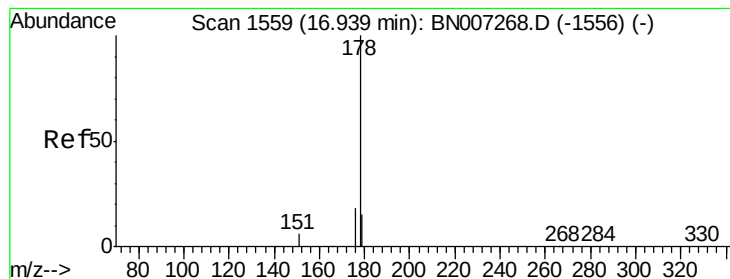
#23  
 Phenanthrene  
 Concen: 0.756 ng  
 RT: 16.85 min Scan# 1551  
 Delta R.T. 0.00 min  
 Lab File: BN007272.D  
 Acq: 20 Aug 2019 19:39

Tgt Ion: 178 Resp: 66878  
 Ion Ratio Lower Upper  
 178 100  
 176 18.8 15.2 22.8  
 179 15.5 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.128 ng

RT: 16.93 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

Instrument :

BNA\_N

ClientSampleId :

S300-J-1.5-2.0-081919

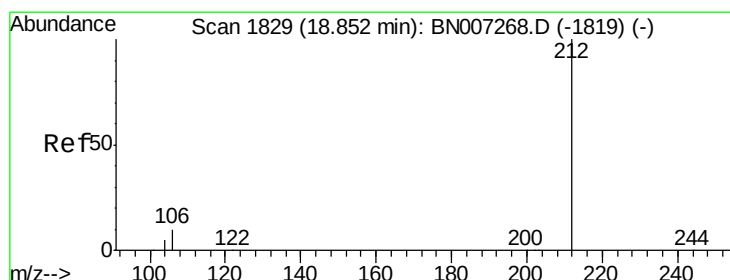
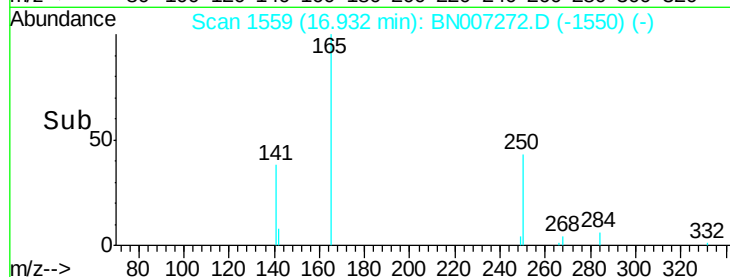
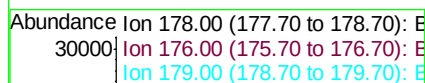
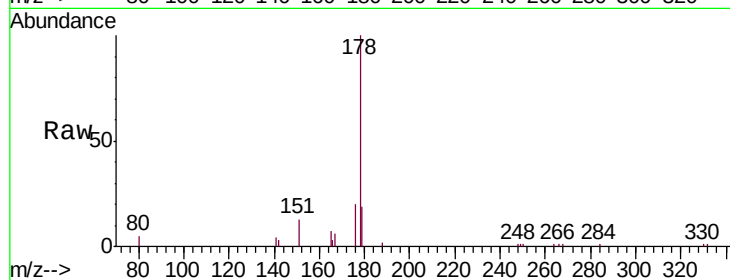
Tgt Ion:178 Resp: 10208

Ion Ratio Lower Upper

178 100

176 18.5 14.3 21.5

179 19.1 12.3 18.5#



#25

Fluoranthene-d10

Concen: 0.217 ng

RT: 18.85 min Scan# 1830

Delta R.T. -0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

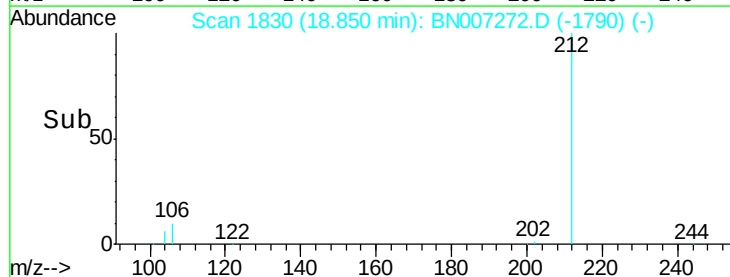
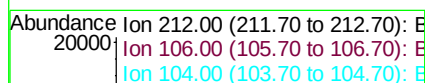
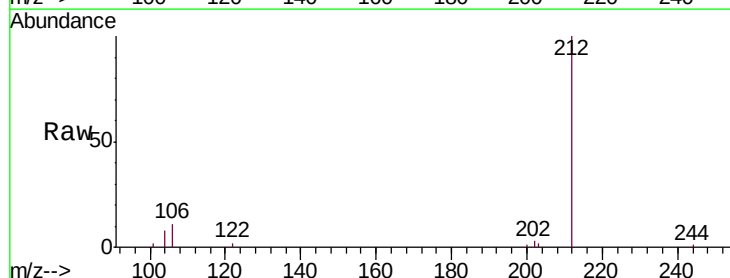
Tgt Ion:212 Resp: 19392

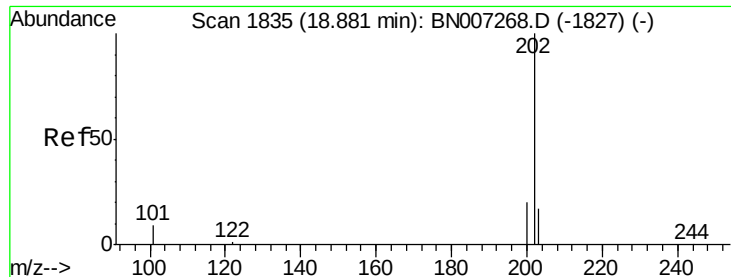
Ion Ratio Lower Upper

212 100

106 11.4 8.2 12.4

104 6.3 4.7 7.1

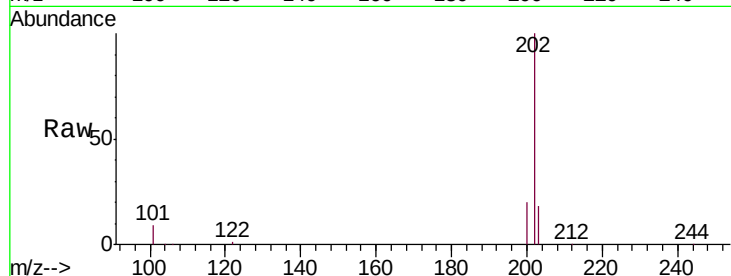




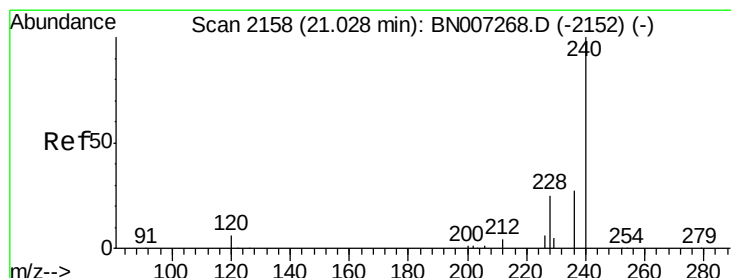
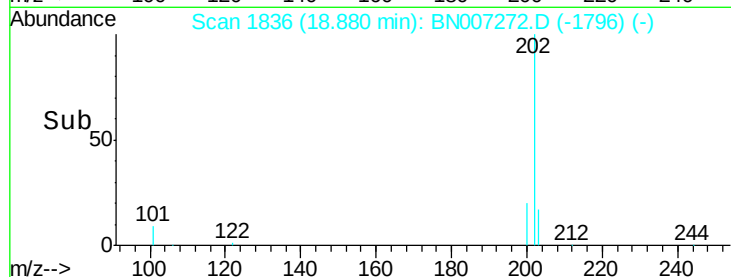
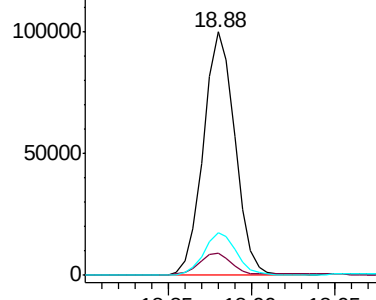
#26  
Fluoranthene  
Concen: 1.221 ng  
RT: 18.88 min Scan# 1836  
Delta R.T. -0.00 min  
Lab File: BN007272.D  
Acq: 20 Aug 2019 19:39

Instrument :  
BNA\_N  
ClientSampleId :  
S300-J-1.5-2.0-081919

Tgt Ion: 202 Resp: 130856  
Ion Ratio Lower Upper  
202 100  
101 9.0 7.2 10.8  
203 17.5 13.8 20.6

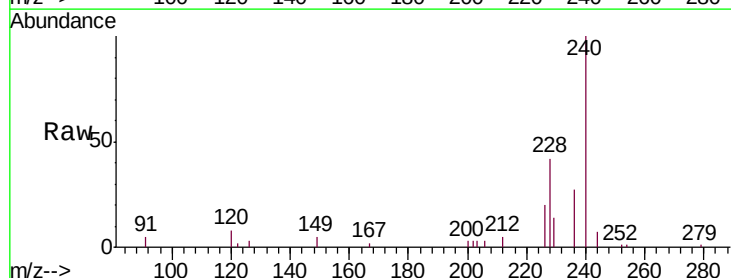


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

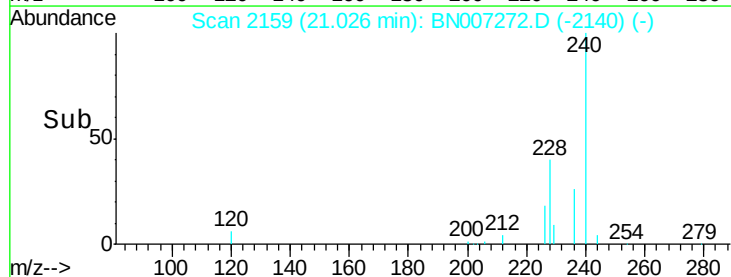
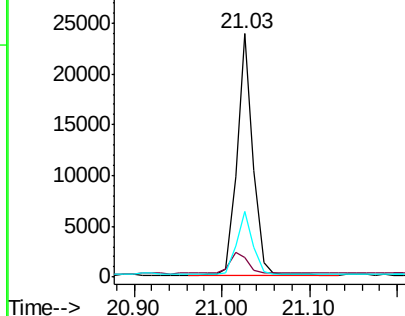


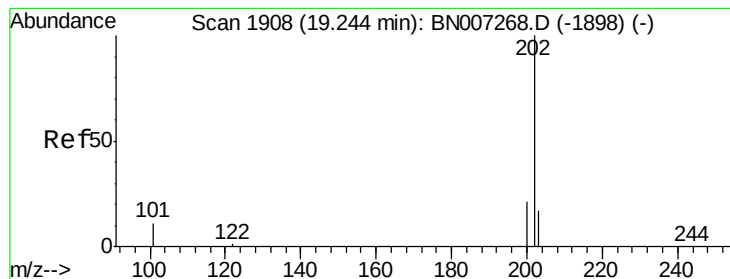
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.03 min Scan# 2159  
Delta R.T. -0.00 min  
Lab File: BN007272.D  
Acq: 20 Aug 2019 19:39

Tgt Ion: 240 Resp: 29594  
Ion Ratio Lower Upper  
240 100  
120 8.0 5.6 8.4  
236 27.0 21.6 32.4



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: 1.138 ng

RT: 19.25 min Scan# 1910

Delta R.T. 0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

Instrument :

BNA\_N

ClientSampleId :

S300-J-1.5-2.0-081919

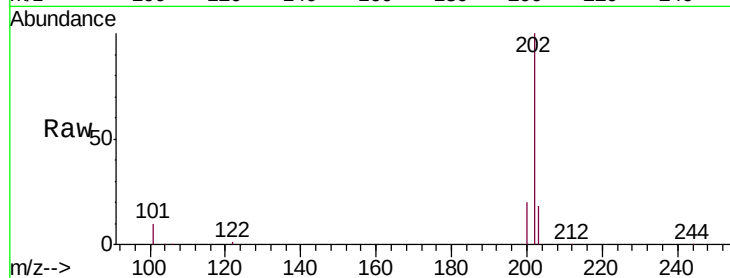
Tgt Ion:202 Resp: 125931

Ion Ratio Lower Upper

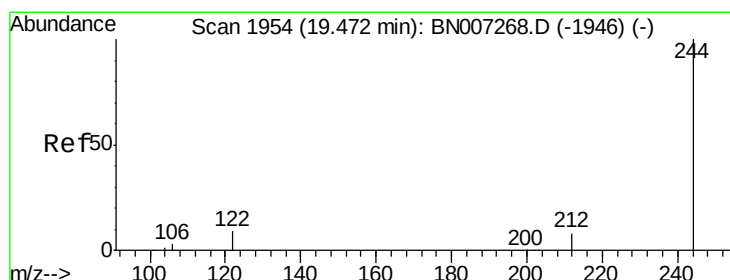
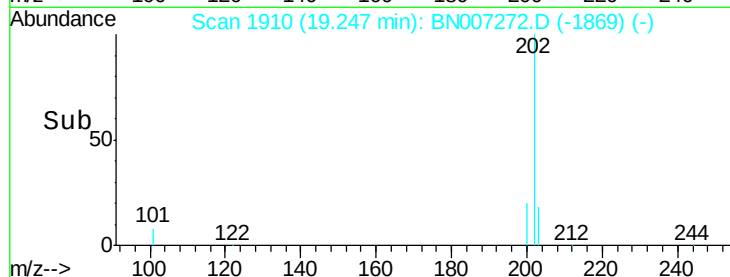
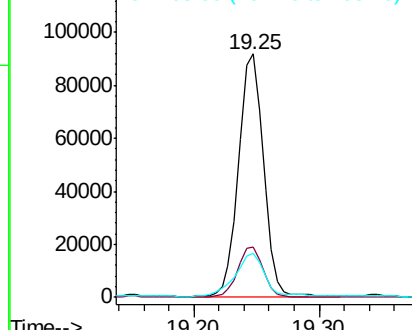
202 100

200 20.8 16.7 25.1

203 20.8 13.9 20.9



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: 0.190 ng

RT: 19.47 min Scan# 1955

Delta R.T. -0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

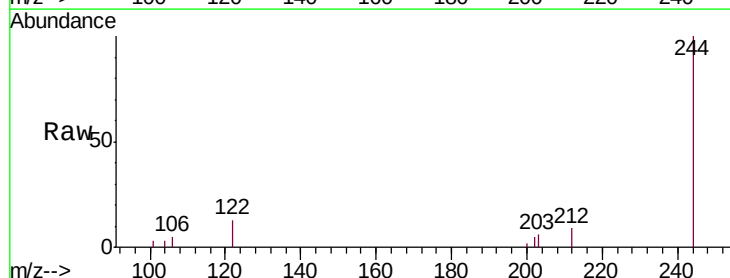
Tgt Ion:244 Resp: 14070

Ion Ratio Lower Upper

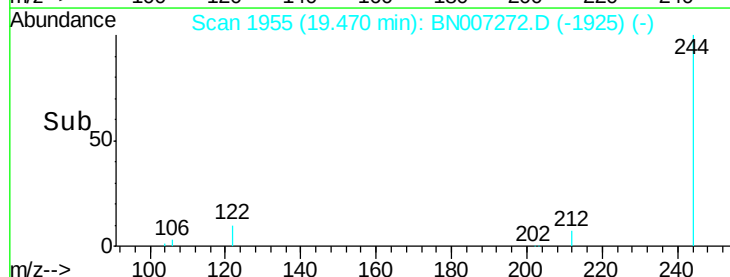
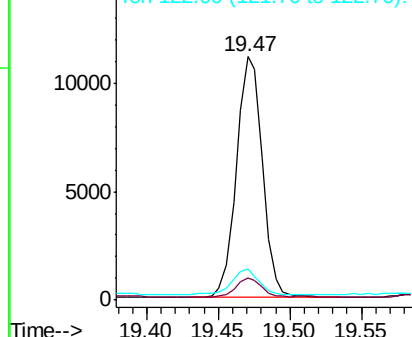
244 100

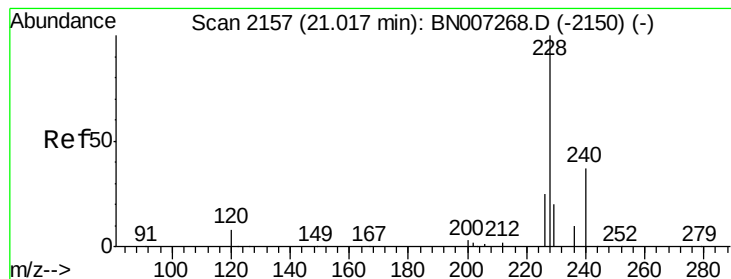
212 9.0 6.5 9.7

122 12.6 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: 0.626 ng

RT: 21.02 min Scan# 2158

Delta R.T. -0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

Instrument :

BNA\_N

ClientSampleId :

S300-J-1.5-2.0-081919

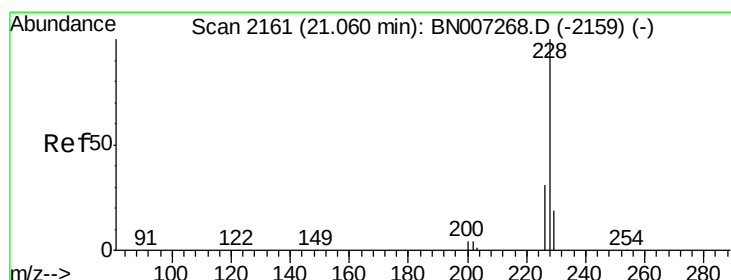
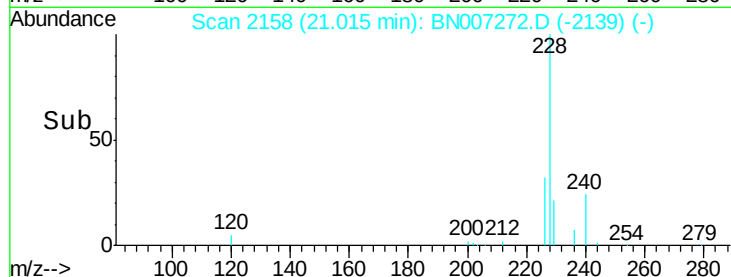
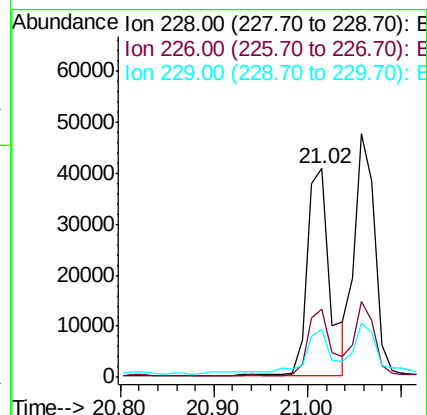
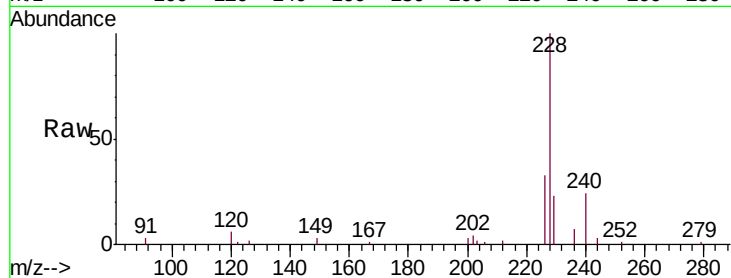
Tgt Ion:228 Resp: 68939

Ion Ratio Lower Upper

228 100

226 32.9 20.6 30.8#

229 23.0 16.9 25.3



#31

Chrysene

Concen: 0.629 ng

RT: 21.06 min Scan# 2162

Delta R.T. -0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

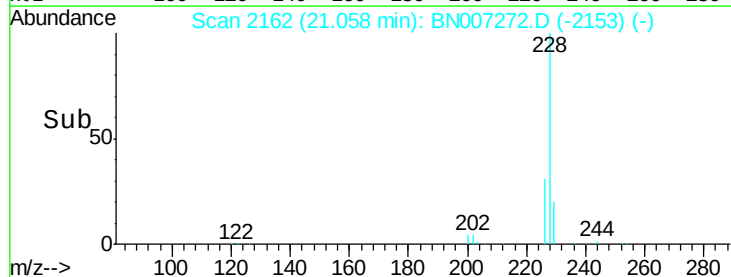
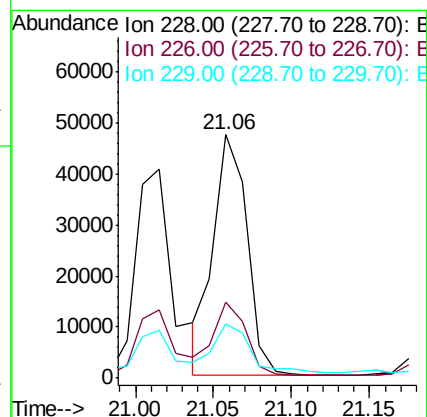
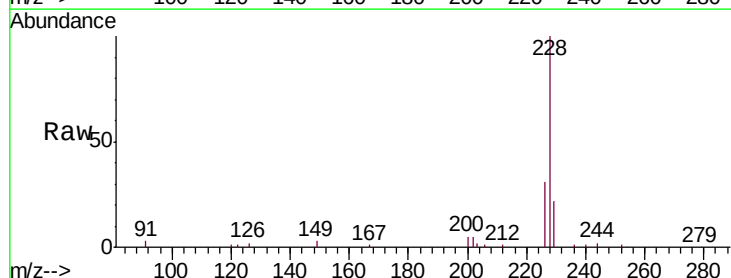
Tgt Ion:228 Resp: 70652

Ion Ratio Lower Upper

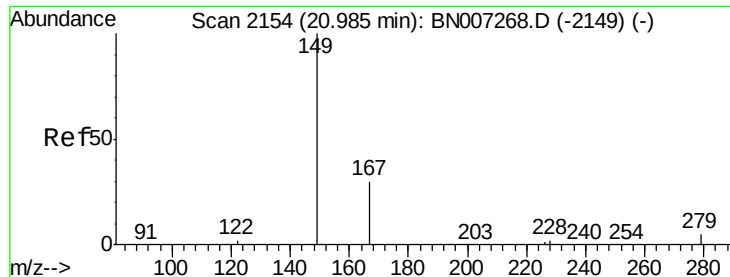
228 100

226 31.1 24.6 36.8

229 22.1 15.6 23.4



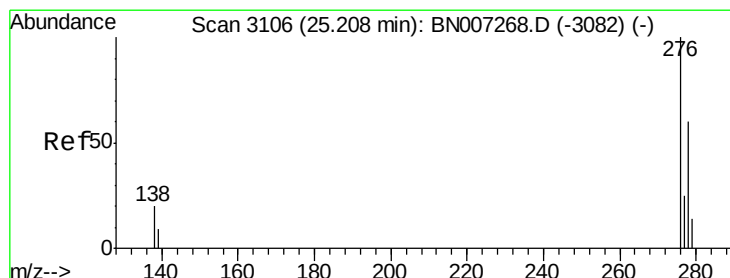
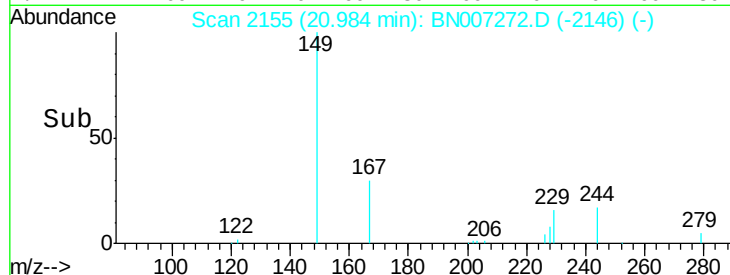
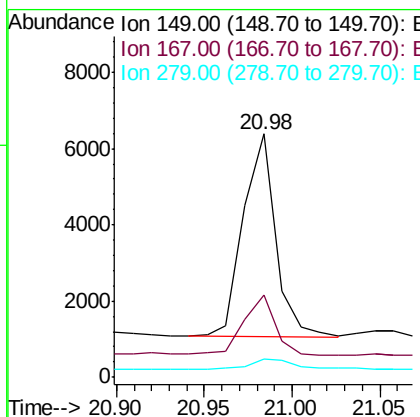
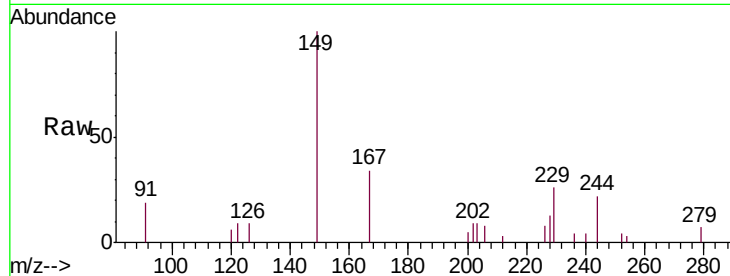




#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.154 ng  
 RT: 20.98 min Scan# 2155  
 Delta R.T. -0.00 min  
 Lab File: BN007272.D  
 Acq: 20 Aug 2019 19:39

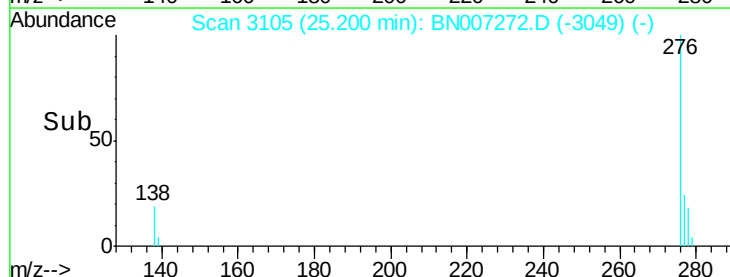
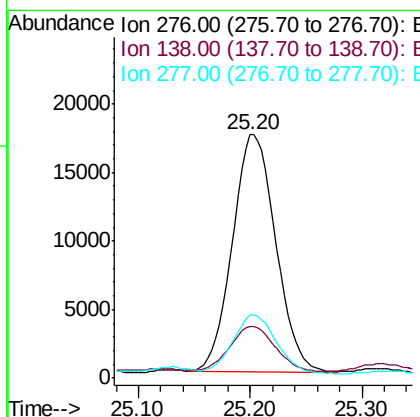
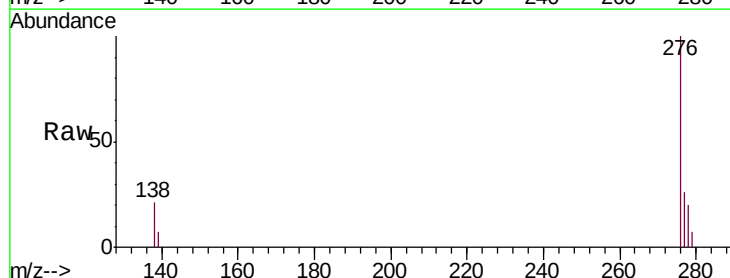
Instrument :  
 BNA\_N  
 ClientSampleId :  
 S300-J-1.5-2.0-081919

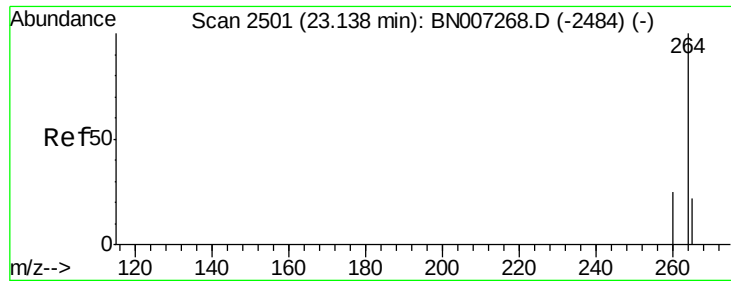
Tgt Ion:149 Resp: 6788  
 Ion Ratio Lower Upper  
 149 100  
 167 28.6 23.8 35.6  
 279 8.3 3.8 5.8#



#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.346 ng  
 RT: 25.20 min Scan# 3105  
 Delta R.T. -0.01 min  
 Lab File: BN007272.D  
 Acq: 20 Aug 2019 19:39

Tgt Ion:276 Resp: 46746  
 Ion Ratio Lower Upper  
 276 100  
 138 19.5 17.1 25.7  
 277 24.7 20.1 30.1

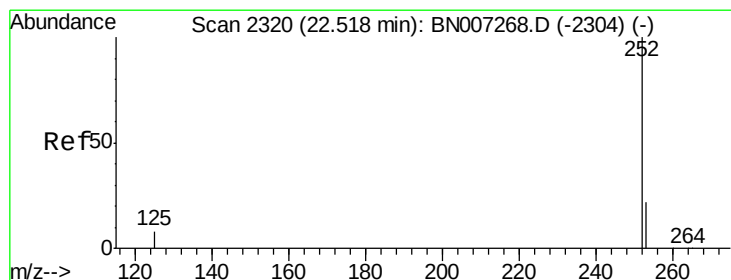
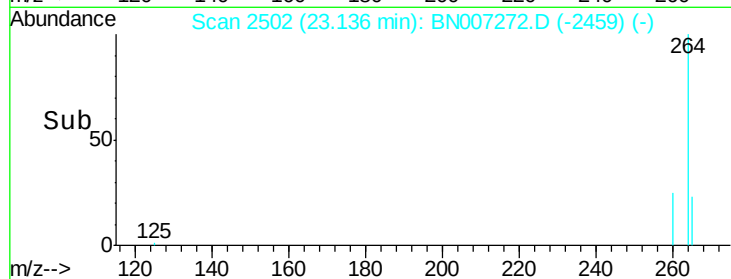
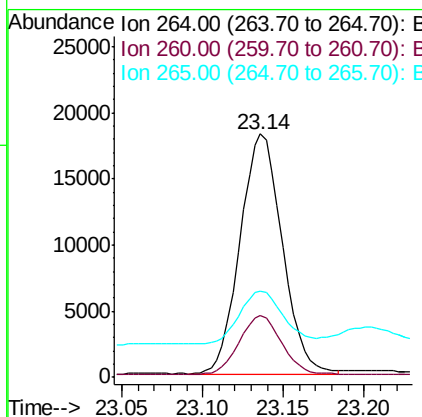
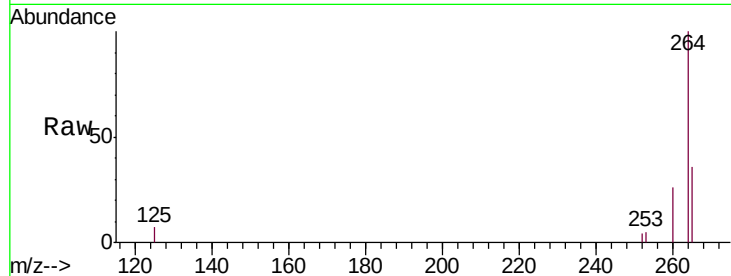




#34  
**Perylene-d12**  
 Concen: 0.400 ng  
 RT: 23.14 min Scan# 2502  
 Delta R.T. -0.00 min  
 Lab File: BN007272.D  
 Acq: 20 Aug 2019 19:39

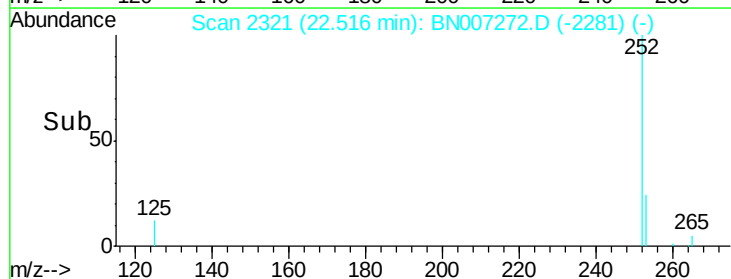
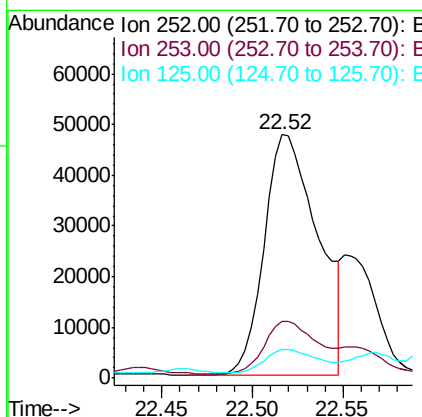
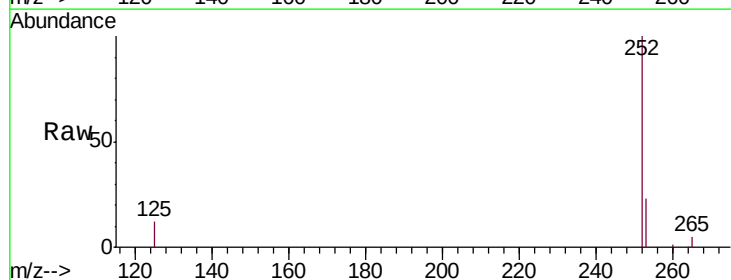
Instrument :  
 BNA\_N  
 ClientSampleId :  
 S300-J-1.5-2.0-081919

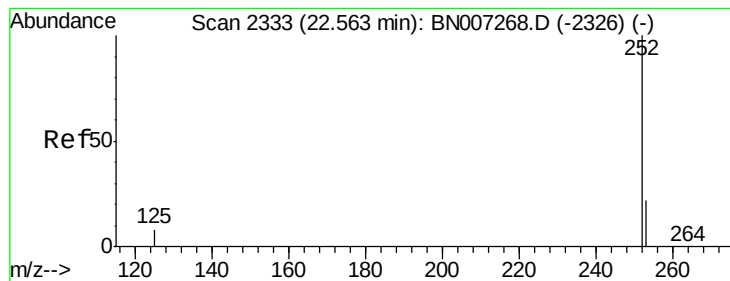
Tgt Ion:264 Resp: 32886  
 Ion Ratio Lower Upper  
 264 100  
 260 25.6 20.1 30.1  
 265 35.6 29.0 43.6



#35  
**Benzo(b)fluoranthene**  
 Concen: 0.795 ng  
 RT: 22.52 min Scan# 2321  
 Delta R.T. -0.00 min  
 Lab File: BN007272.D  
 Acq: 20 Aug 2019 19:39

Tgt Ion:252 Resp: 97509  
 Ion Ratio Lower Upper  
 252 100  
 253 23.3 18.5 27.7  
 125 11.6 7.8 11.6





#36

Benzo(k)fluoranthene

Concen: 0.812 ng

RT: 22.52 min Scan# 2321

Delta R.T. -0.05 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

Instrument :

BNA\_N

ClientSampleId :

S300-J-1.5-2.0-081919

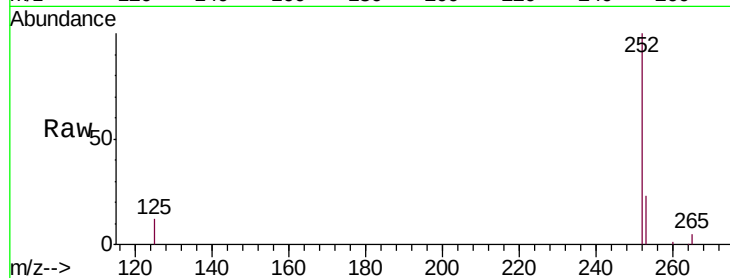
Tgt Ion:252 Resp: 97509

Ion Ratio Lower Upper

252 100

253 23.3 18.4 27.6

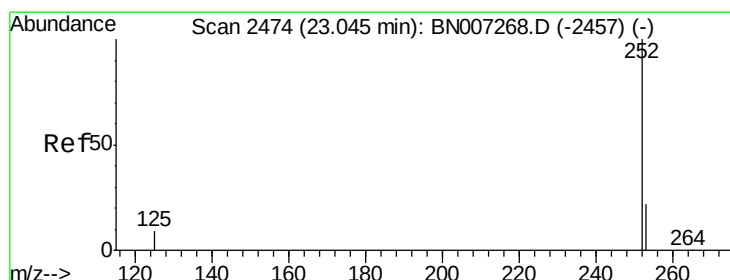
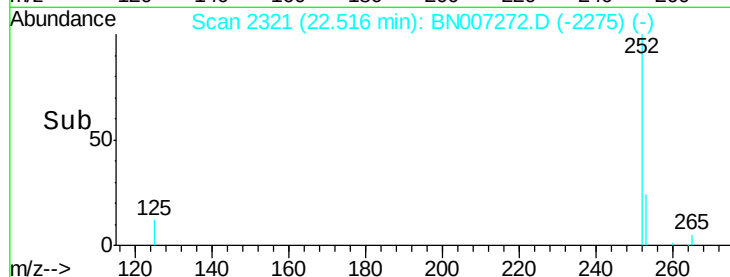
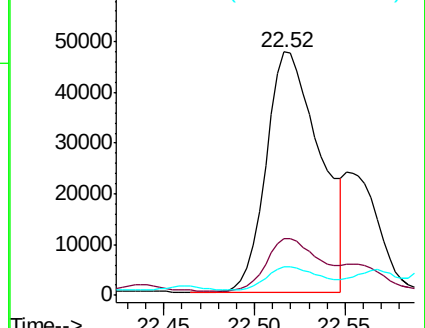
125 11.6 8.0 12.0



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



#37

Benzo(a)pyrene

Concen: 0.568 ng

RT: 23.04 min Scan# 2475

Delta R.T. -0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

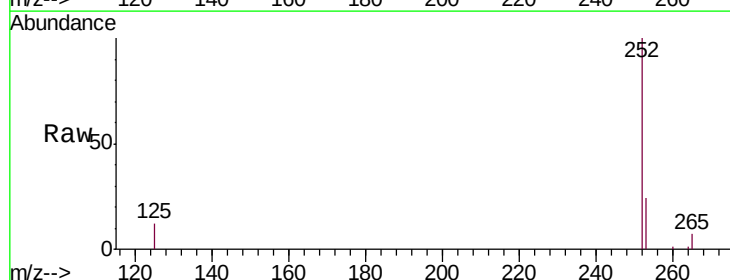
Tgt Ion:252 Resp: 62809

Ion Ratio Lower Upper

252 100

253 24.0 18.7 28.1

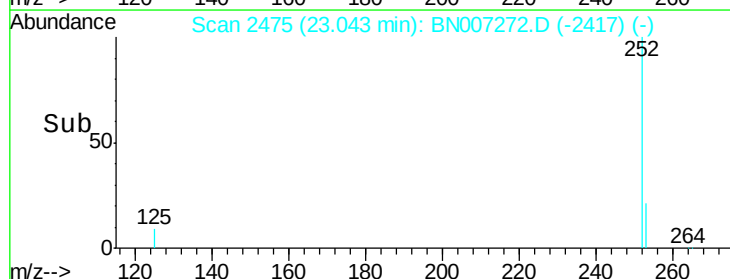
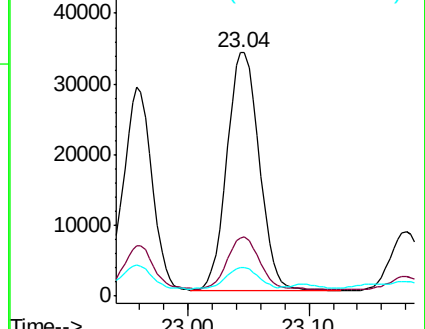
125 11.7 8.7 13.1

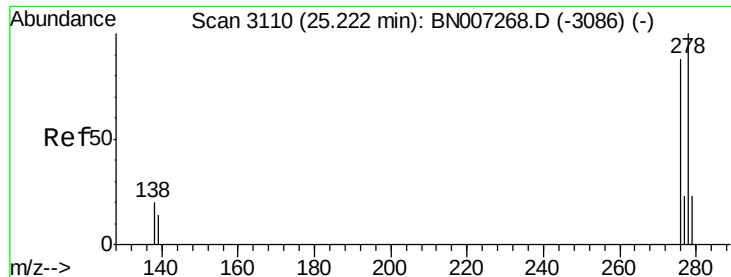


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.106 ng

RT: 25.21 min Scan# 3109

Delta R.T. -0.01 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

Instrument :

BNA\_N

ClientSampleId :

S300-J-1.5-2.0-081919

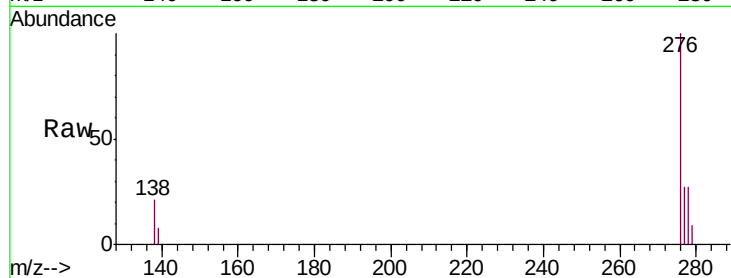
Tgt Ion: 278 Resp: 12306

Ion Ratio Lower Upper

278 100

139 28.4 11.8 17.8#

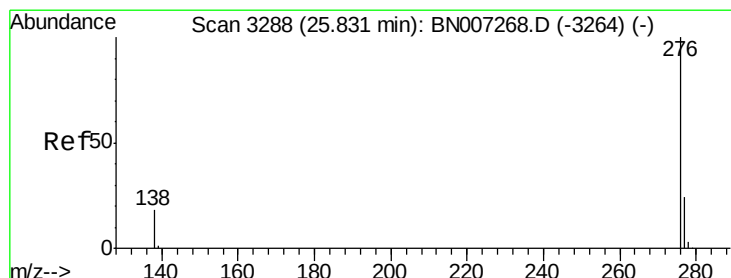
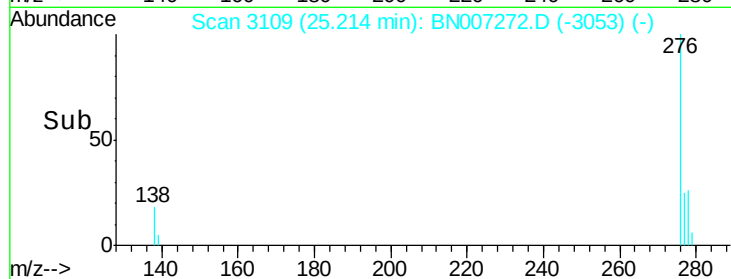
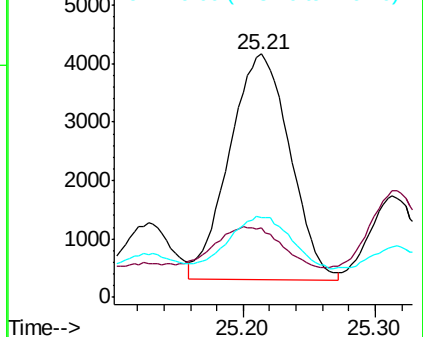
279 33.0 19.8 29.6#



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: 0.395 ng

RT: 25.83 min Scan# 3289

Delta R.T. -0.00 min

Lab File: BN007272.D

Acq: 20 Aug 2019 19:39

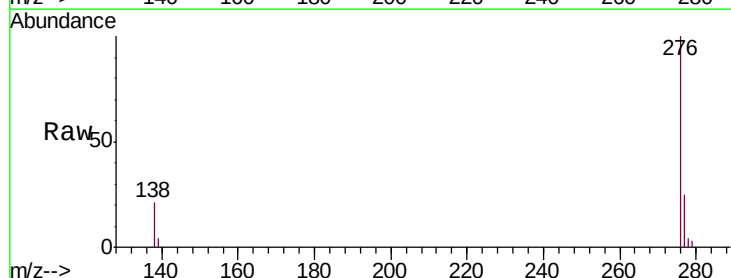
Tgt Ion: 276 Resp: 46374

Ion Ratio Lower Upper

276 100

277 25.1 19.5 29.3

138 20.8 15.3 22.9



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

