

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN040119\  
 Data File : BN005041.D  
 Acq On : 01 Apr 2019 10:33  
 Operator : JU/SJ  
 Sample : PB118407BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Apr 01 12:09:24 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN032819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 29 03:42:17 2019  
 Response via : Initial Calibration

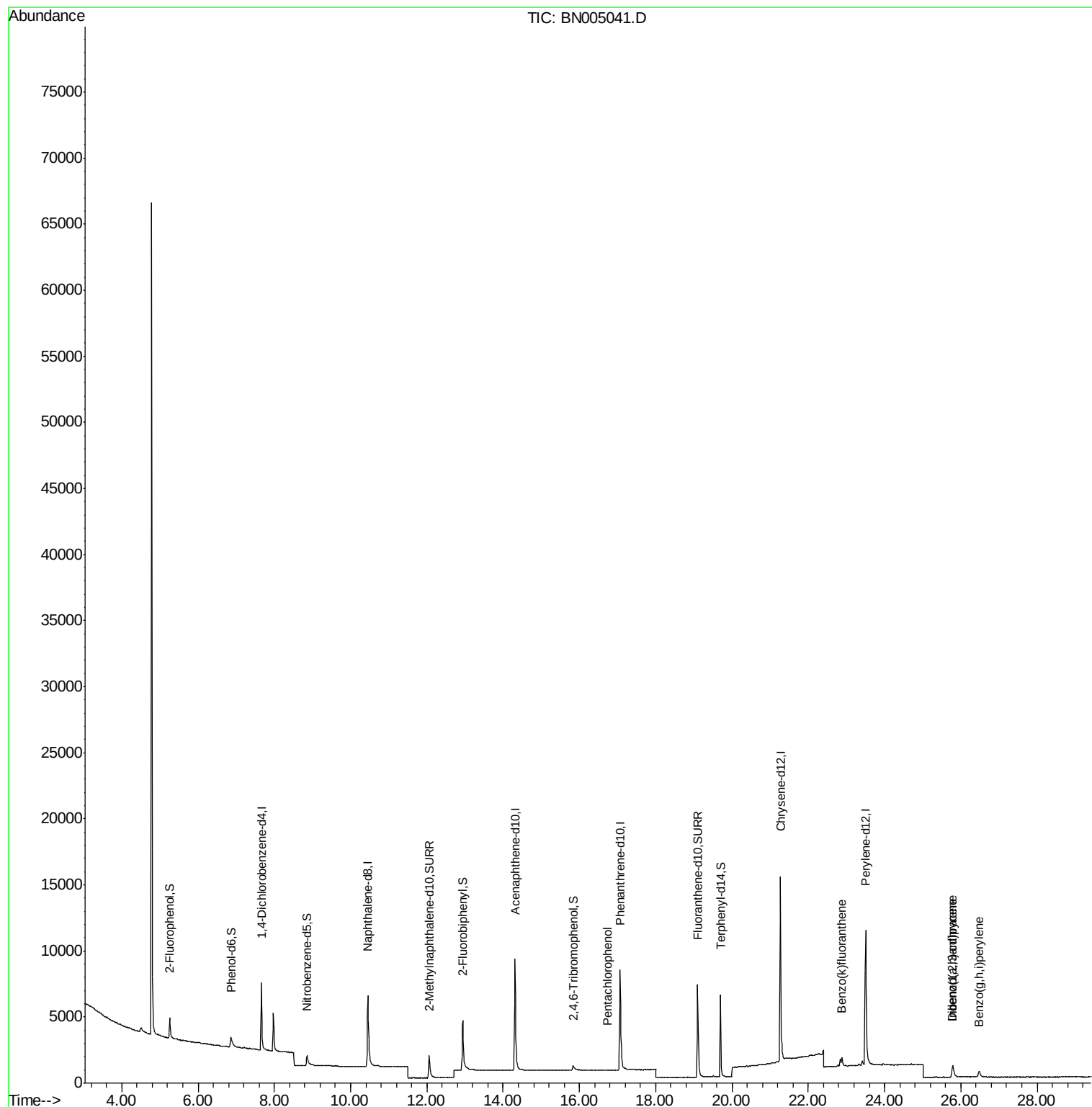
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.66  | 152  | 2858     | 0.40  | ng    | 0.00        |
| 7) Naphthalene-d8           | 10.45 | 136  | 11400    | 0.40  | ng    | 0.01        |
| 13) Acenaphthene-d10        | 14.31 | 164  | 6428     | 0.40  | ng    | 0.01        |
| 19) Phenanthrene-d10        | 17.07 | 188  | 15037    | 0.40  | ng    | 0.01        |
| 27) Chrysene-d12            | 21.27 | 240  | 16777    | 0.40  | ng    | 0.01        |
| 34) Perylene-d12            | 23.50 | 264  | 17122    | 0.40  | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |       |       |             |
| 4) 2-Fluorophenol           | 5.26  | 112  | 1802     | 0.25  | ng    | 0.00        |
| 5) Phenol-d6                | 6.86  | 99   | 1827     | 0.22  | ng    | 0.02        |
| 8) Nitrobenzene-d5          | 8.86  | 82   | 1352     | 0.20  | ng    | 0.03        |
| 11) 2-Methylnaphthalene-d10 | 12.06 | 152  | 4221     | 0.24  | ng    | 0.02        |
| 14) 2,4,6-Tribromophenol    | 15.84 | 330  | 616      | 0.17  | ng    | 0.02        |
| 15) 2-Fluorobiphenyl        | 12.94 | 172  | 5940     | 0.24  | ng    | 0.02        |
| 25) Fluoranthene-d10        | 19.11 | 212  | 10826    | 0.25  | ng    | 0.00        |
| 29) Terphenyl-d14           | 19.70 | 244  | 7690     | 0.22  | ng    | 0.00        |
| Target Compounds            |       |      |          |       |       |             |
| 22) Pentachlorophenol       | 16.74 | 266  | 1        | 0.090 | ng    | Qvalue # 63 |
| 33) Indeno(1,2,3-cd)pyrene  | 25.78 | 276  | 1284     | 0.022 | ng    | # 99        |
| 36) Benzo(k)fluoranthene    | 22.88 | 252  | 1132     | 0.021 | ng    | # 29        |
| 38) Dibenzo(a,h)anthracene  | 25.79 | 278  | 1214     | 0.025 | ng    | # 45        |
| 39) Benzo(g,h,i)perylene    | 26.48 | 276  | 1207     | 0.025 | ng    | # 70        |

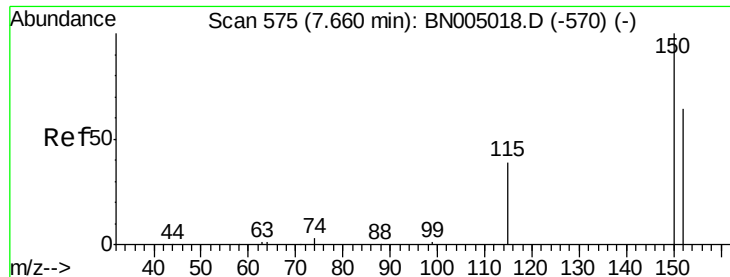
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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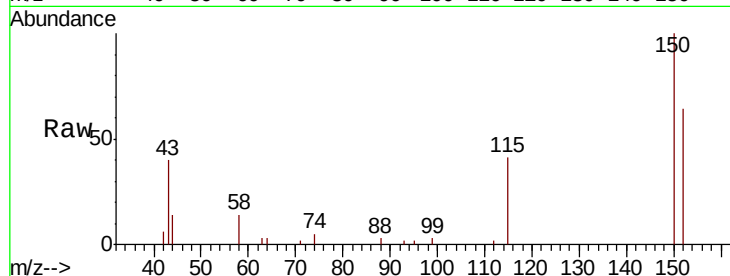


#1

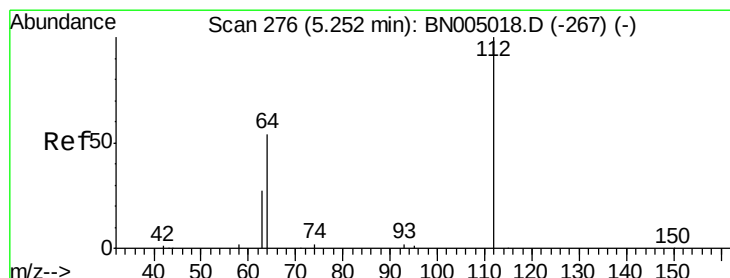
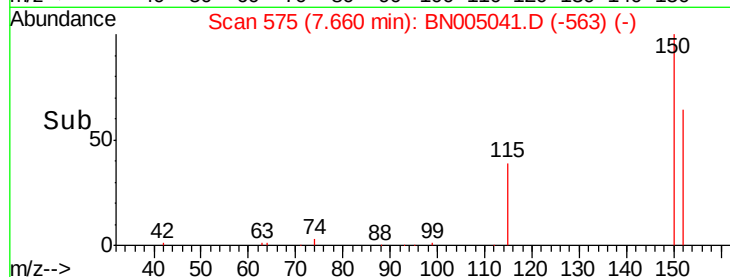
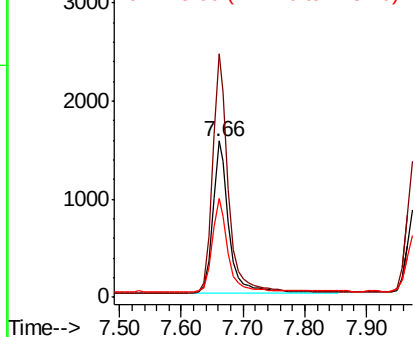
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.66 min Scan# 575  
Delta R.T. 0.00 min  
Lab File: BN005041.D  
Acq: 01 Apr 2019 10:33

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:152 Resp: 2858  
Ion Ratio Lower Upper  
152 100  
150 155.5 123.4 185.2  
115 63.0 50.0 75.0



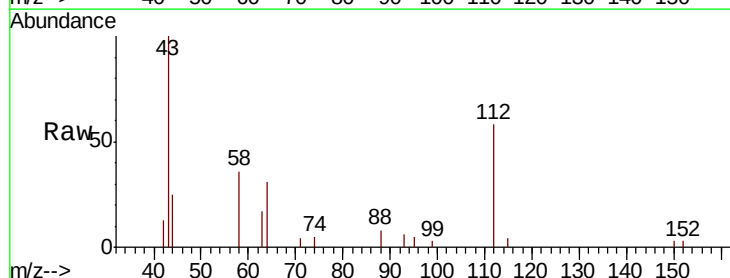
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



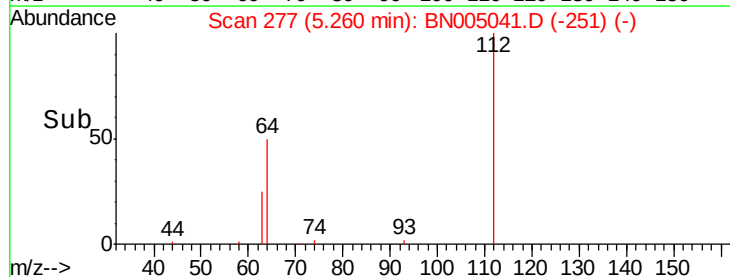
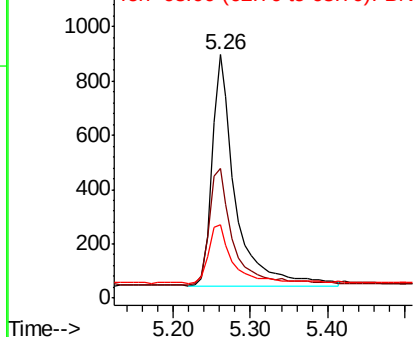
#4

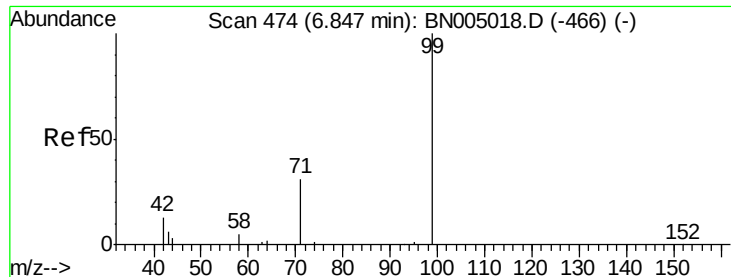
2-Fluorophenol  
Concen: 0.253 ng  
RT: 5.26 min Scan# 277  
Delta R.T. 0.01 min  
Lab File: BN005041.D  
Acq: 01 Apr 2019 10:33

Tgt Ion:112 Resp: 1802  
Ion Ratio Lower Upper  
112 100  
64 53.0 41.9 62.9  
63 27.0 21.5 32.3



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: 0.216 ng

RT: 6.86 min Scan# 476

Delta R.T. 0.02 min

Lab File: BN005041.D

Acq: 01 Apr 2019 10:33

Instrument :

BNA\_N

ClientSampleId :

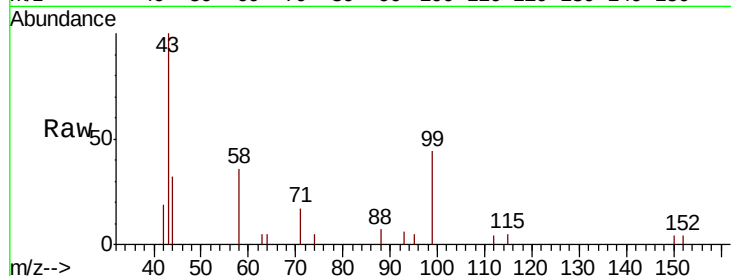
Tot Ion: 99 Resp: 1827

Ion Ratio Lower Upper

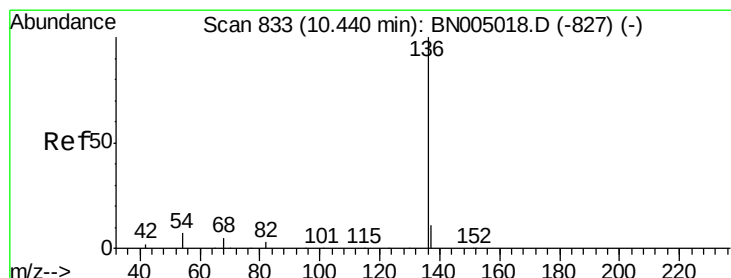
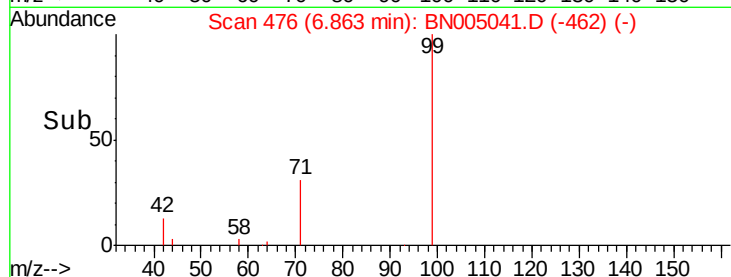
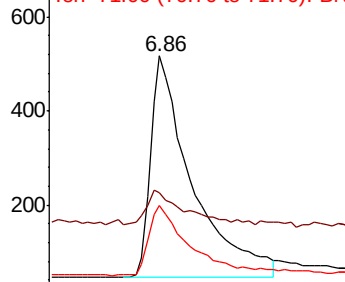
99 100

42 14.9 12.2 18.2

71 30.8 26.1 39.1



Abundance Ion 99.00 (98.70 to 99.70): BN005041.D (-462) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.45 min Scan# 834

Delta R.T. 0.01 min

Lab File: BN005041.D

Acq: 01 Apr 2019 10:33

Tgt Ion: 136 Resp: 11400

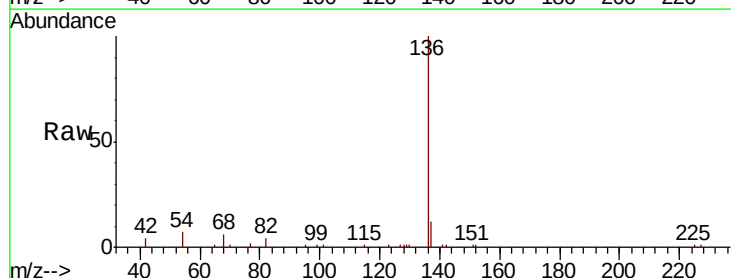
Ion Ratio Lower Upper

136 100

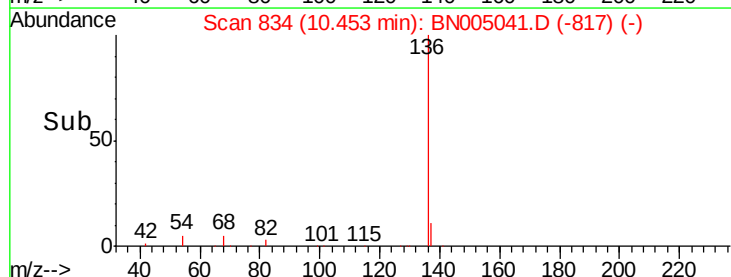
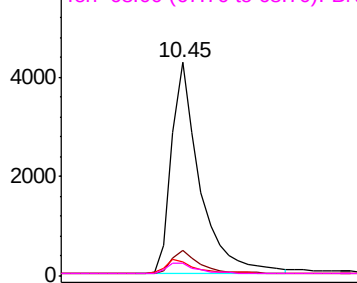
137 11.7 9.2 13.8

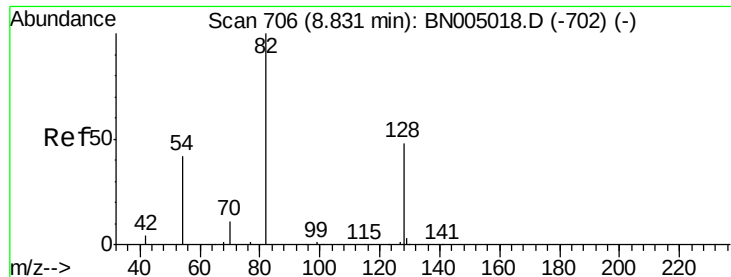
54 6.6 6.0 9.0

68 5.9 5.0 7.6



Abundance Ion 136.00 (135.70 to 136.70): BN005041.D (-817) (-)





#8

Nitrobenzene-d5

Concen: 0.205 ng

RT: 8.86 min Scan# 708

Delta R.T. 0.03 min

Lab File: BN005041.D

Acq: 01 Apr 2019 10:33

Instrument :

BNA\_N

ClientSampleId :

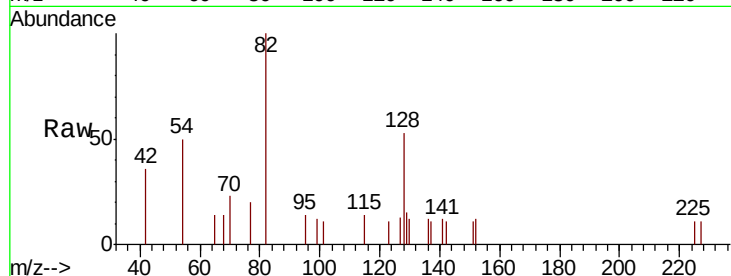
Tot Ion: 82 Resp: 1352

Ion Ratio Lower Upper

82 100

128 52.7 40.5 60.7

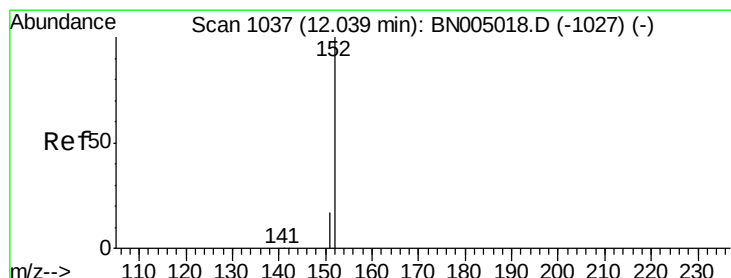
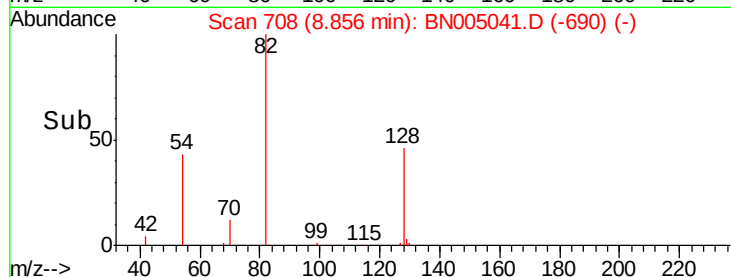
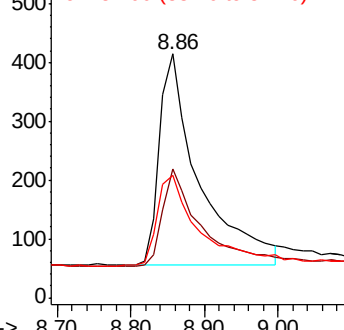
54 50.2 35.7 53.5



Abundance Ion 82.00 (81.70 to 82.70): BN0

Ion 128.00 (127.70 to 128.70): BN0

Ion 54.00 (53.70 to 54.70): BN0



#11

2-Methylnaphthalene-d10

Concen: 0.239 ng

RT: 12.06 min Scan# 1042

Delta R.T. 0.02 min

Lab File: BN005041.D

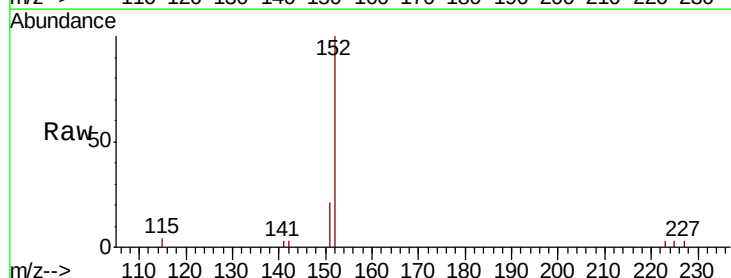
Acq: 01 Apr 2019 10:33

Tgt Ion: 152 Resp: 4221

Ion Ratio Lower Upper

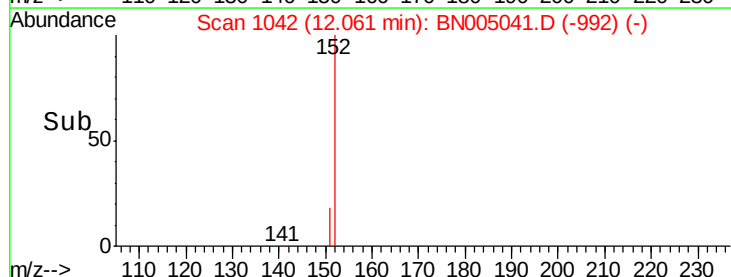
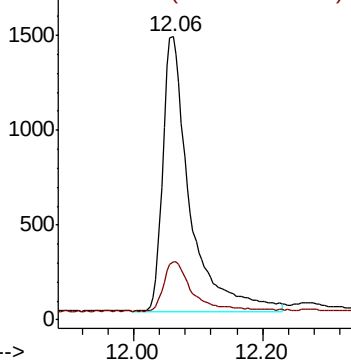
152 100

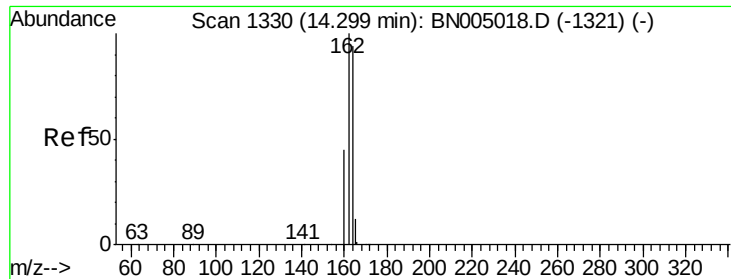
151 19.5 15.3 22.9



Abundance Ion 152.00 (151.70 to 152.70): BN0

Ion 151.00 (150.70 to 151.70): BN0

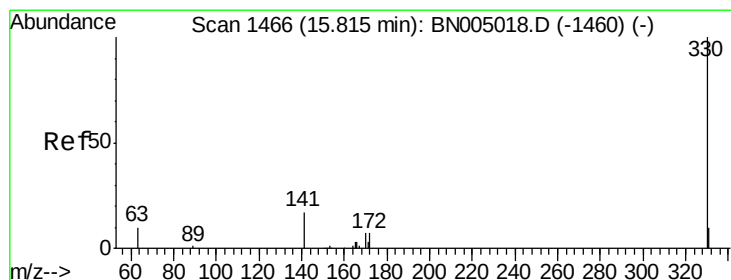
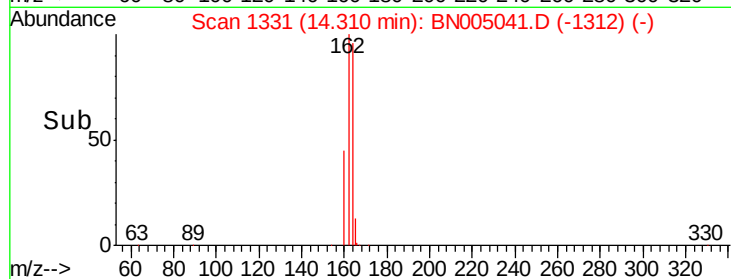
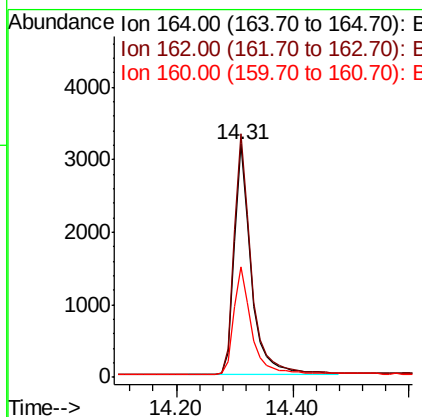
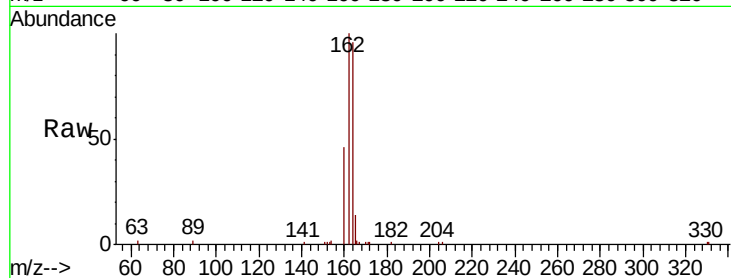




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.31 min Scan# 1331  
 Delta R.T. 0.01 min  
 Lab File: BN005041.D  
 Acq: 01 Apr 2019 10:33

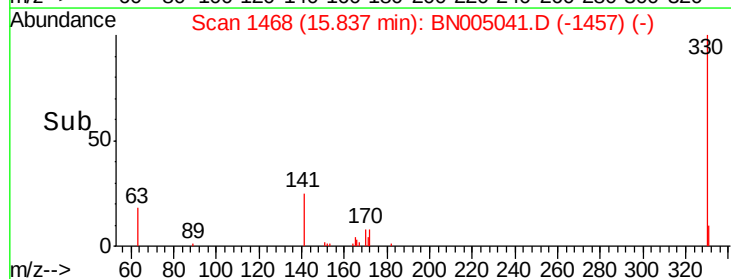
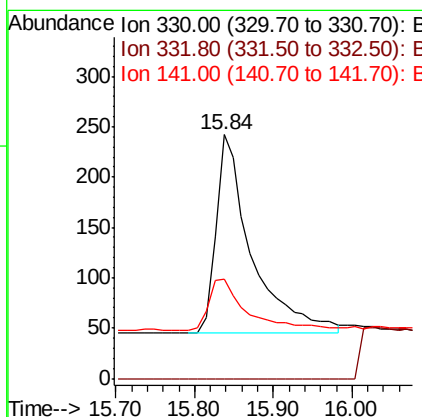
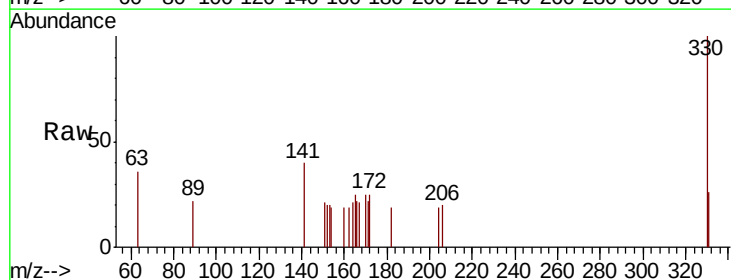
Instrument :  
 BNA\_N  
 ClientSampleId :

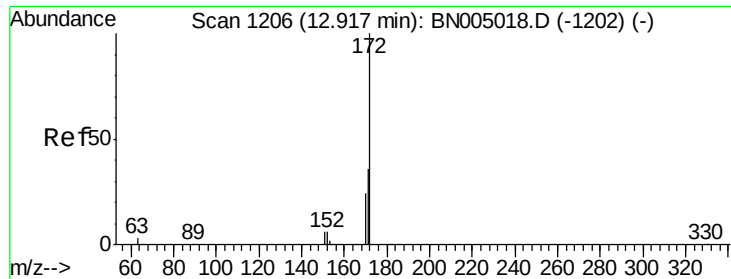
Tot Ion:164 Resp: 6428  
 Ion Ratio Lower Upper  
 164 100  
 162 104.5 85.3 127.9  
 160 47.6 39.2 58.8



#14  
 2,4,6-Tribromophenol  
 Concen: 0.171 ng  
 RT: 15.84 min Scan# 1468  
 Delta R.T. 0.02 min  
 Lab File: BN005041.D  
 Acq: 01 Apr 2019 10:33

Tgt Ion:330 Resp: 616  
 Ion Ratio Lower Upper  
 330 100  
 332 0.0 0.0 0.0  
 141 26.9 21.3 31.9

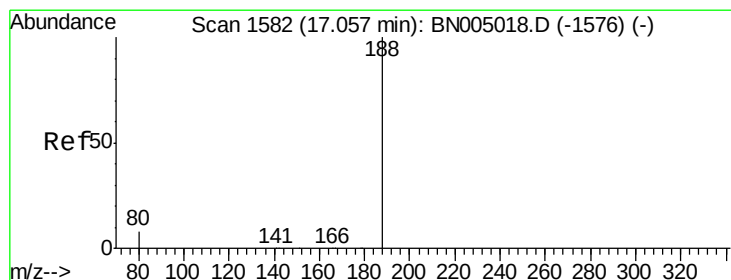
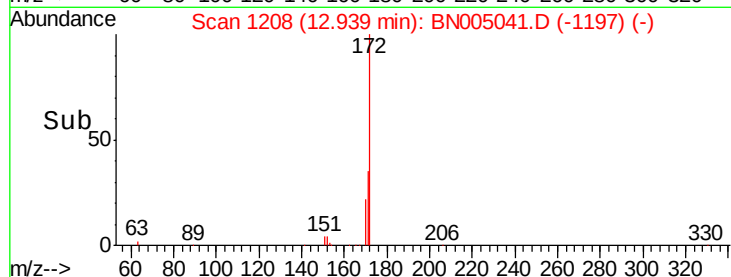
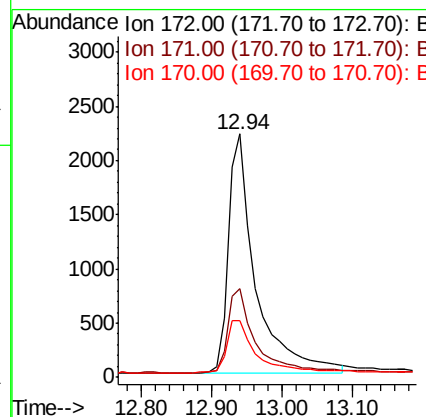
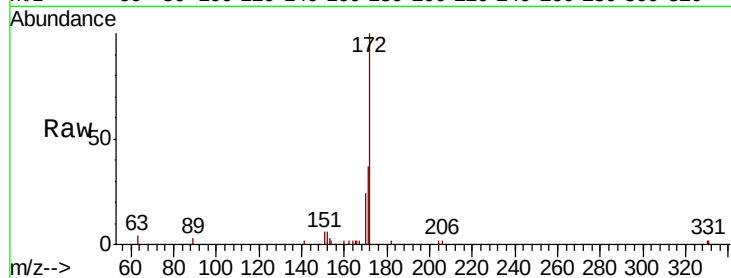




#15  
2-Fluorobiphenyl  
Concen: 0.245 ng  
RT: 12.94 min Scan# 1208  
Delta R.T. 0.02 min  
Lab File: BN005041.D  
Acq: 01 Apr 2019 10:33

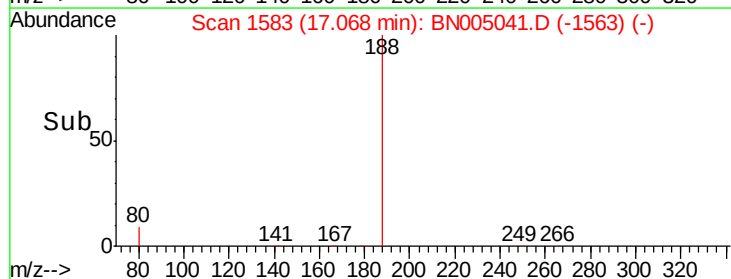
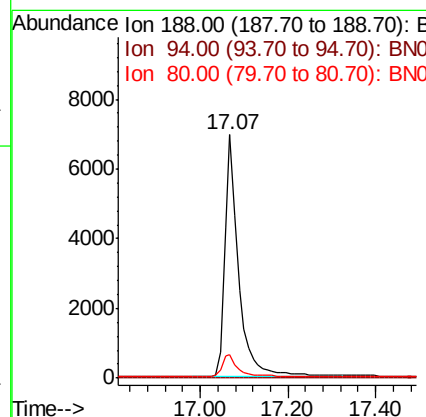
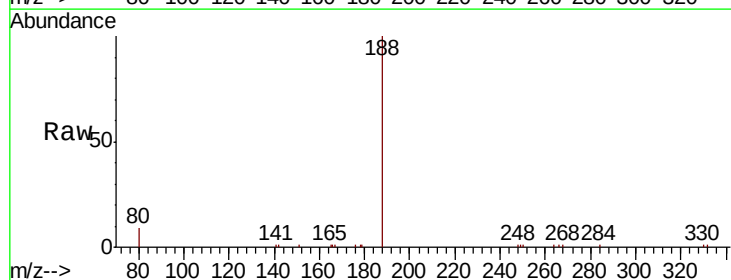
Instrument :  
BNA\_N  
ClientSampleId :

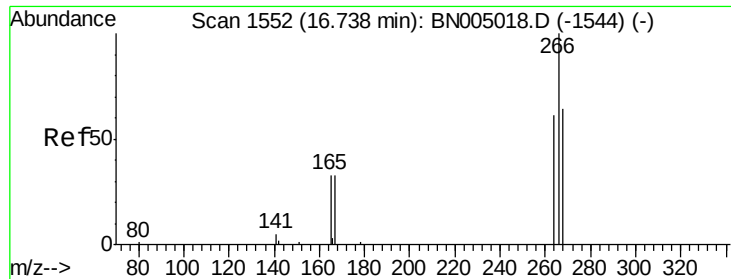
Tot Ion:172 Resp: 5940  
Ion Ratio Lower Upper  
172 100  
171 36.7 29.4 44.0  
170 23.6 20.0 30.0



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.07 min Scan# 1583  
Delta R.T. 0.01 min  
Lab File: BN005041.D  
Acq: 01 Apr 2019 10:33

Tgt Ion:188 Resp: 15037  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.4 6.9 10.3

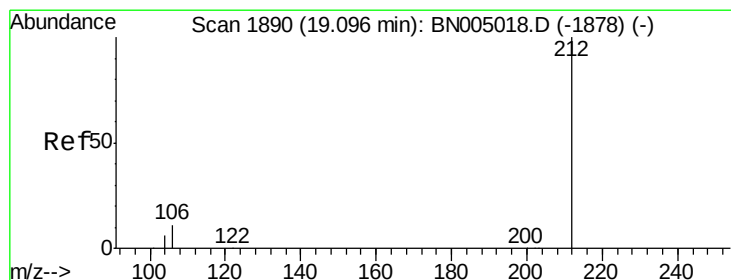
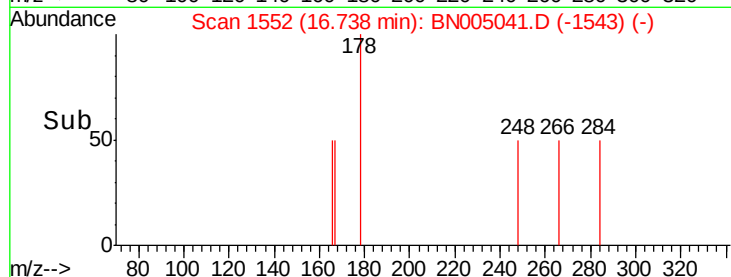
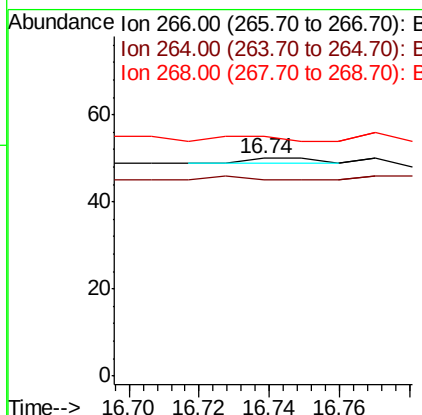
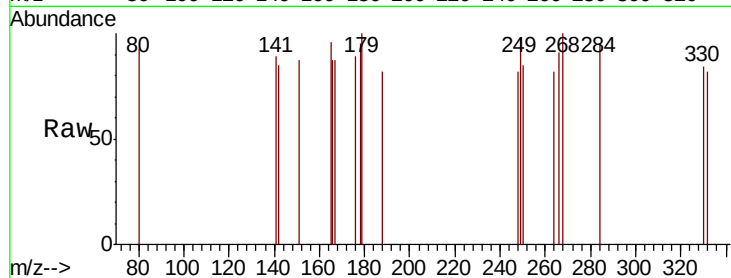




#22  
 Pentachlorophenol  
 Concen: 0.090 ng  
 RT: 16.74 min Scan# 1552  
 Delta R.T. 0.00 min  
 Lab File: BN005041.D  
 Acq: 01 Apr 2019 10:33

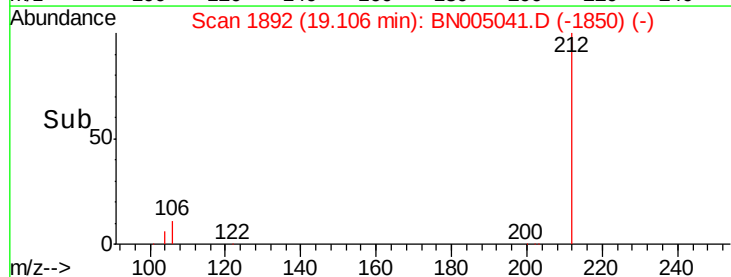
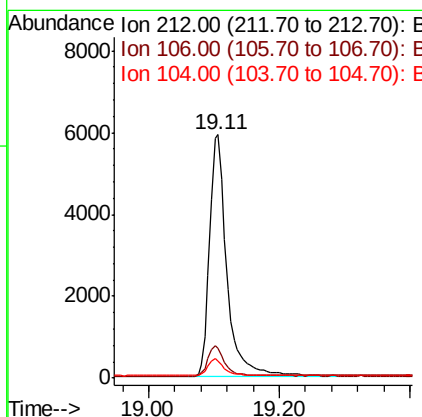
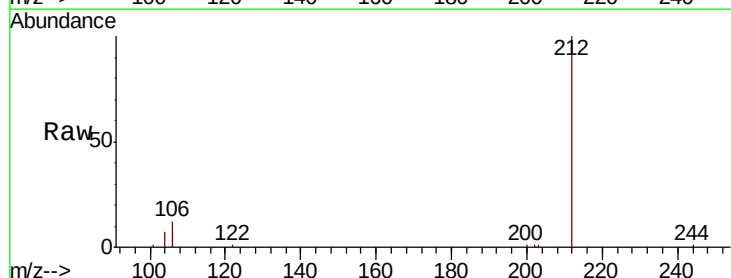
Instrument :  
 BNA\_N  
 ClientSampleId :

Tot Ion:266 Resp: 1  
 Ion Ratio Lower Upper  
 266 100  
 264 90.0 53.4 80.0#  
 268 110.0 58.9 88.3#

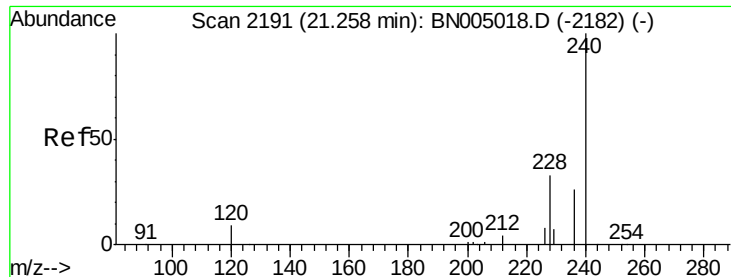


#25  
 Fluoranthene-d10  
 Concen: 0.252 ng  
 RT: 19.11 min Scan# 1892  
 Delta R.T. 0.01 min  
 Lab File: BN005041.D  
 Acq: 01 Apr 2019 10:33

Tgt Ion:212 Resp: 10826  
 Ion Ratio Lower Upper  
 212 100  
 106 12.1 9.4 14.2  
 104 6.6 5.4 8.0



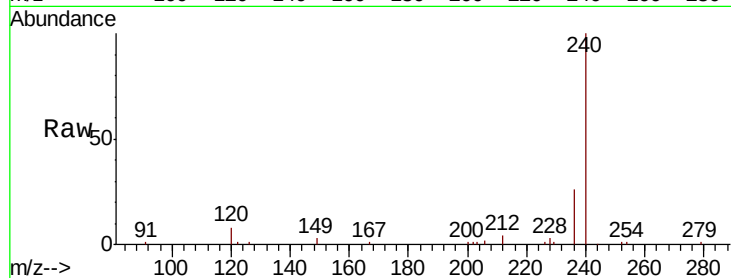




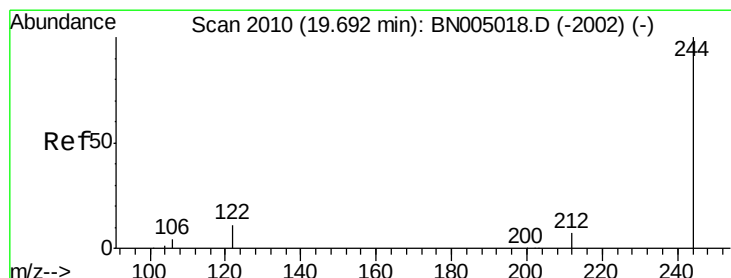
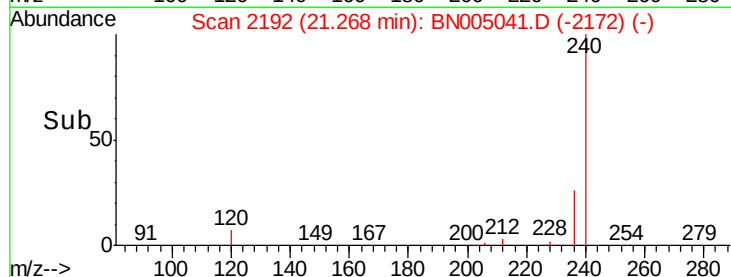
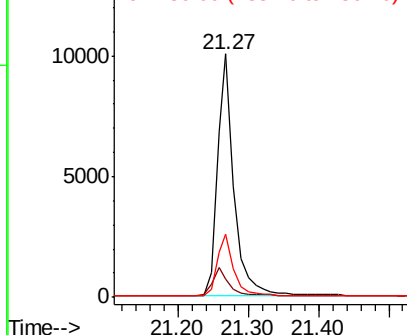
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.27 min Scan# 2192  
Delta R.T. 0.01 min  
Lab File: BN005041.D  
Acq: 01 Apr 2019 10:33

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:240 Resp: 16777  
Ion Ratio Lower Upper  
240 100  
120 7.7 7.4 11.0  
236 25.9 21.0 31.6

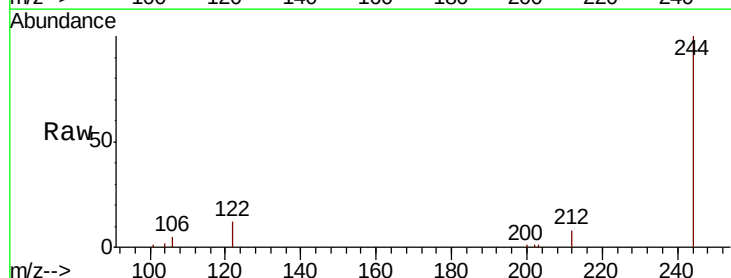


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

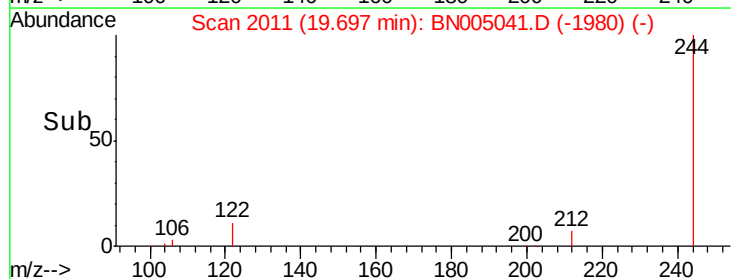
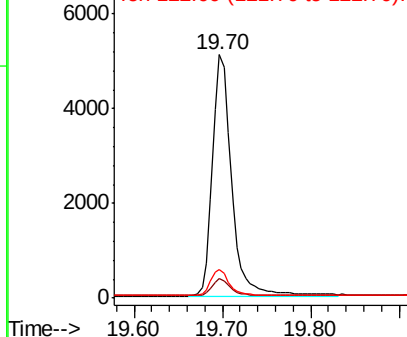


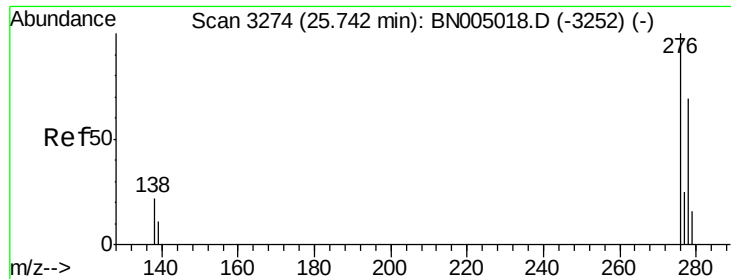
#29  
Terphenyl-d14  
Concen: 0.223 ng  
RT: 19.70 min Scan# 2011  
Delta R.T. 0.01 min  
Lab File: BN005041.D  
Acq: 01 Apr 2019 10:33

Tgt Ion:244 Resp: 7690  
Ion Ratio Lower Upper  
244 100  
212 7.8 5.9 8.9  
122 11.8 9.0 13.4



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.022 ng

RT: 25.78 min Scan# 3286

Delta R.T. 0.04 min

Lab File: BN005041.D

Acq: 01 Apr 2019 10:33

Instrument :

BNA\_N

ClientSampleId :

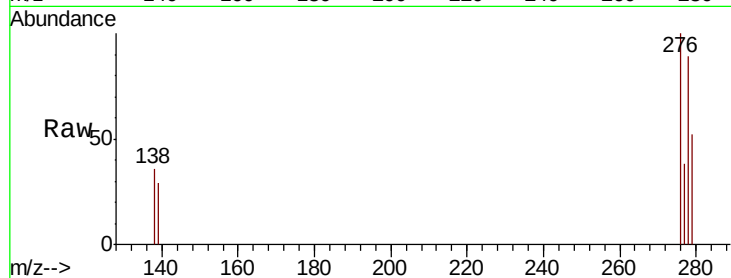
Tot Ion:276 Resp: 1284

Ion Ratio Lower Upper

276 100

138 22.3 18.2 27.2

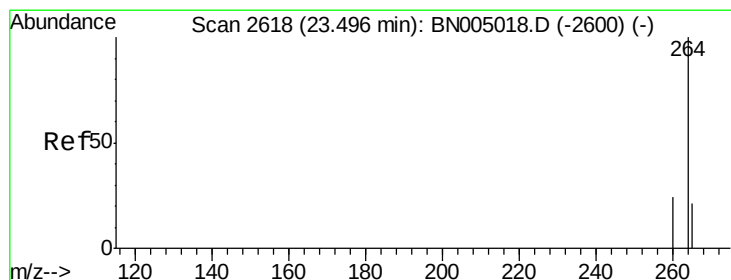
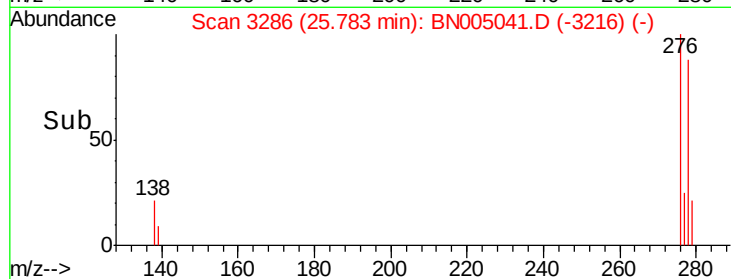
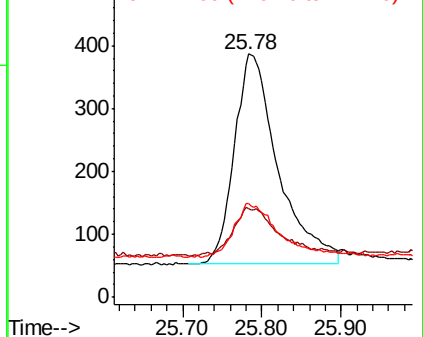
277 25.9 20.3 30.5



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: 23.50 min Scan# 2620

Delta R.T. 0.01 min

Lab File: BN005041.D

Acq: 01 Apr 2019 10:33

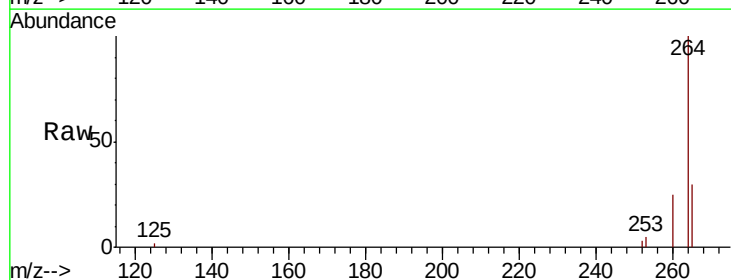
Tgt Ion:264 Resp: 17122

Ion Ratio Lower Upper

264 100

260 24.7 19.4 29.0

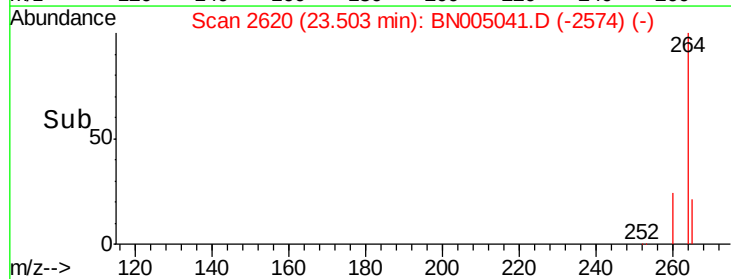
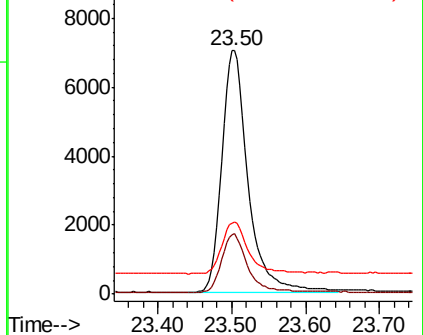
265 29.6 22.5 33.7

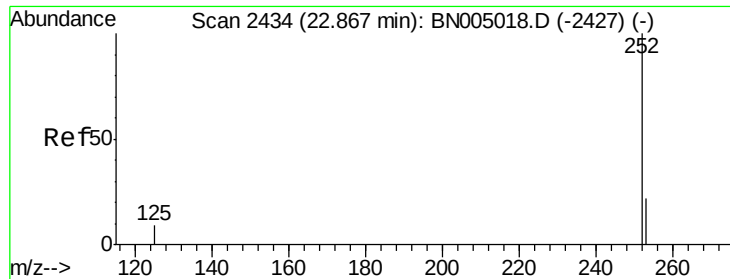


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

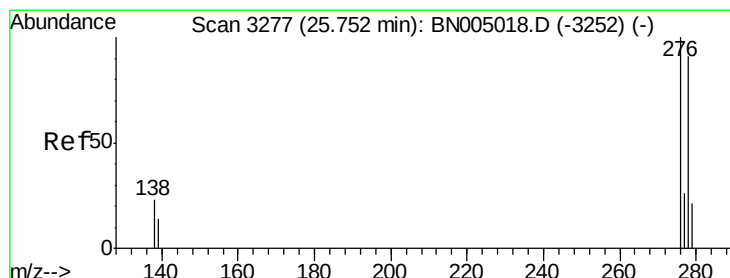
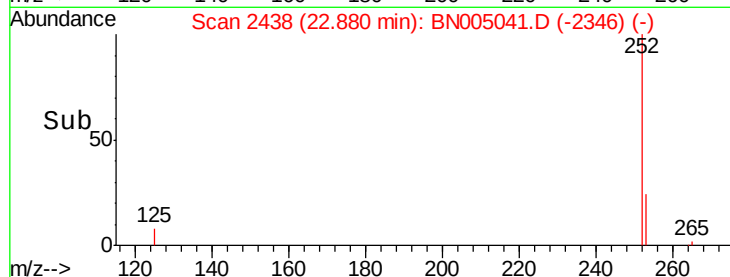
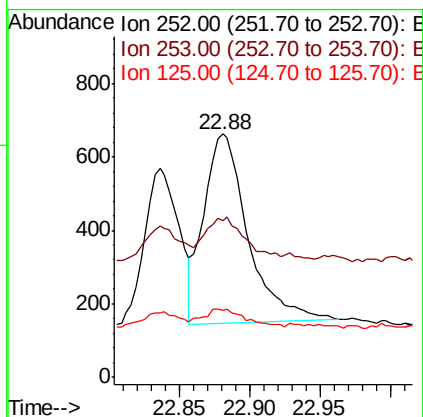
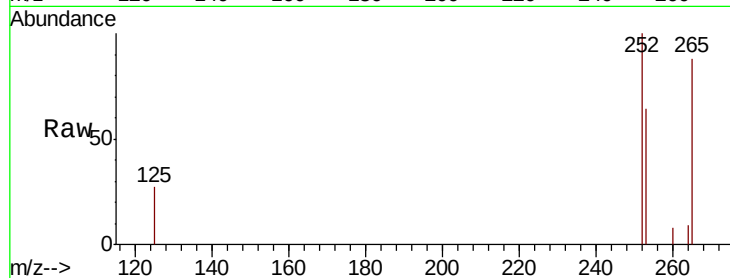




#36  
Benzo(k)fluoranthene  
Concen: 0.021 ng  
RT: 22.88 min Scan# 2438  
Delta R.T. 0.01 min  
Lab File: BN005041.D  
Acq: 01 Apr 2019 10:33

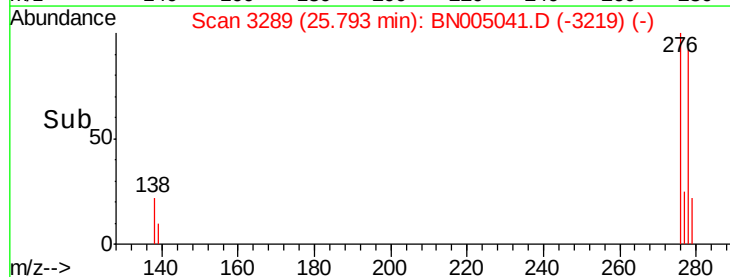
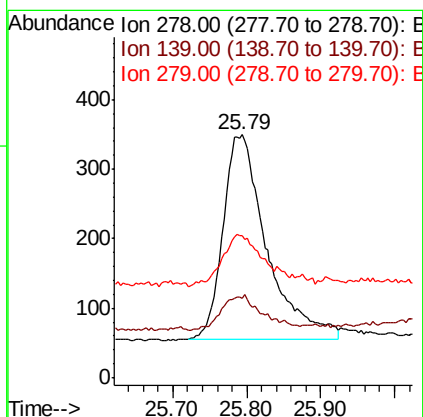
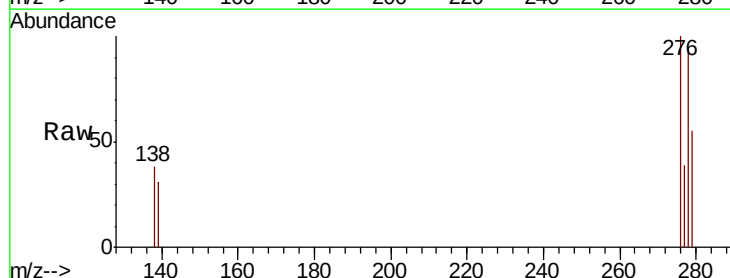
Instrument :  
BNA\_N  
ClientSampled :

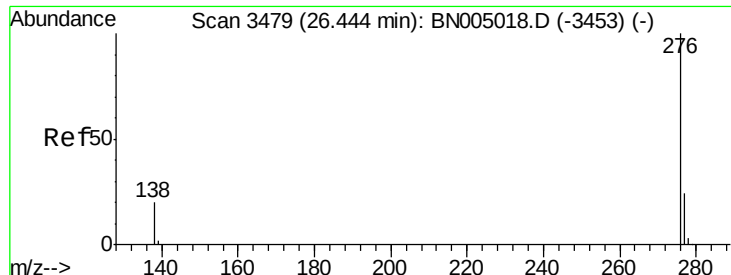
Tot Ion:252 Resp: 1132  
Ion Ratio Lower Upper  
252 100  
253 64.1 19.3 28.9#  
125 27.3 8.2 12.2#



#38  
Dibenzo(a,h)anthracene  
Concen: 0.025 ng  
RT: 25.79 min Scan# 3289  
Delta R.T. 0.04 min  
Lab File: BN005041.D  
Acq: 01 Apr 2019 10:33

Tgt Ion:278 Resp: 1214  
Ion Ratio Lower Upper  
278 100  
139 32.9 13.1 19.7#  
279 58.6 20.2 30.2#





#39

Benzo(a,h,i)perylene

Concen: 0.025 ng

RT: 26.48 min Scan# 3489

Delta R.T. 0.03 min

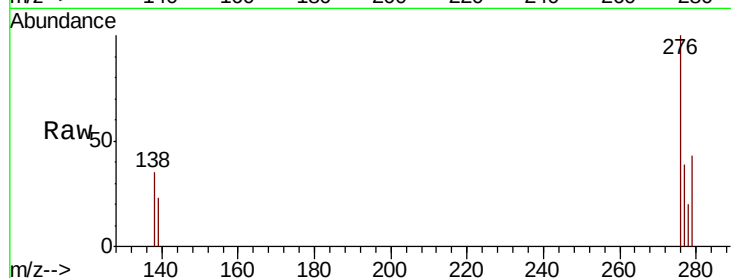
Lab File: BN005041.D

Acq: 01 Apr 2019 10:33

Instrument :

BNA\_N

ClientSampleId :



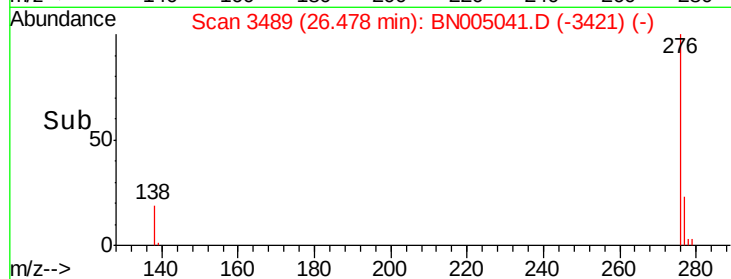
Tot Ion: 276 Resp: 1207

Ion Ratio Lower Upper

276 100

277 38.9 19.8 29.6#

138 35.1 16.4 24.6#



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

