

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060120\  
 Data File : BF120466.D  
 Acq On : 1 Jun 2020 13:04  
 Operator : JU/CG  
 Sample : L2792-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM32-COMP-2020-0-6

Quant Time: Jun 01 13:46:42 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 29 12:39:43 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.84  | 152  | 242982   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.12  | 136  | 863465   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.87  | 164  | 397111   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.36 | 188  | 638262   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.00 | 240  | 494543   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.45 | 264  | 565234   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.46  | 112 | 1267266 | 99.39  | ng | 0.00 |
| 7) Phenol-d6             | 6.47  | 99  | 1613283 | 102.66 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.40  | 82  | 1052410 | 79.73  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.66 | 330 | 385989  | 104.91 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 9.20  | 172 | 1854295 | 79.23  | ng | 0.00 |
| 79) Terphenyl-d14        | 12.94 | 244 | 1622308 | 73.00  | ng | 0.00 |

## Target Compounds

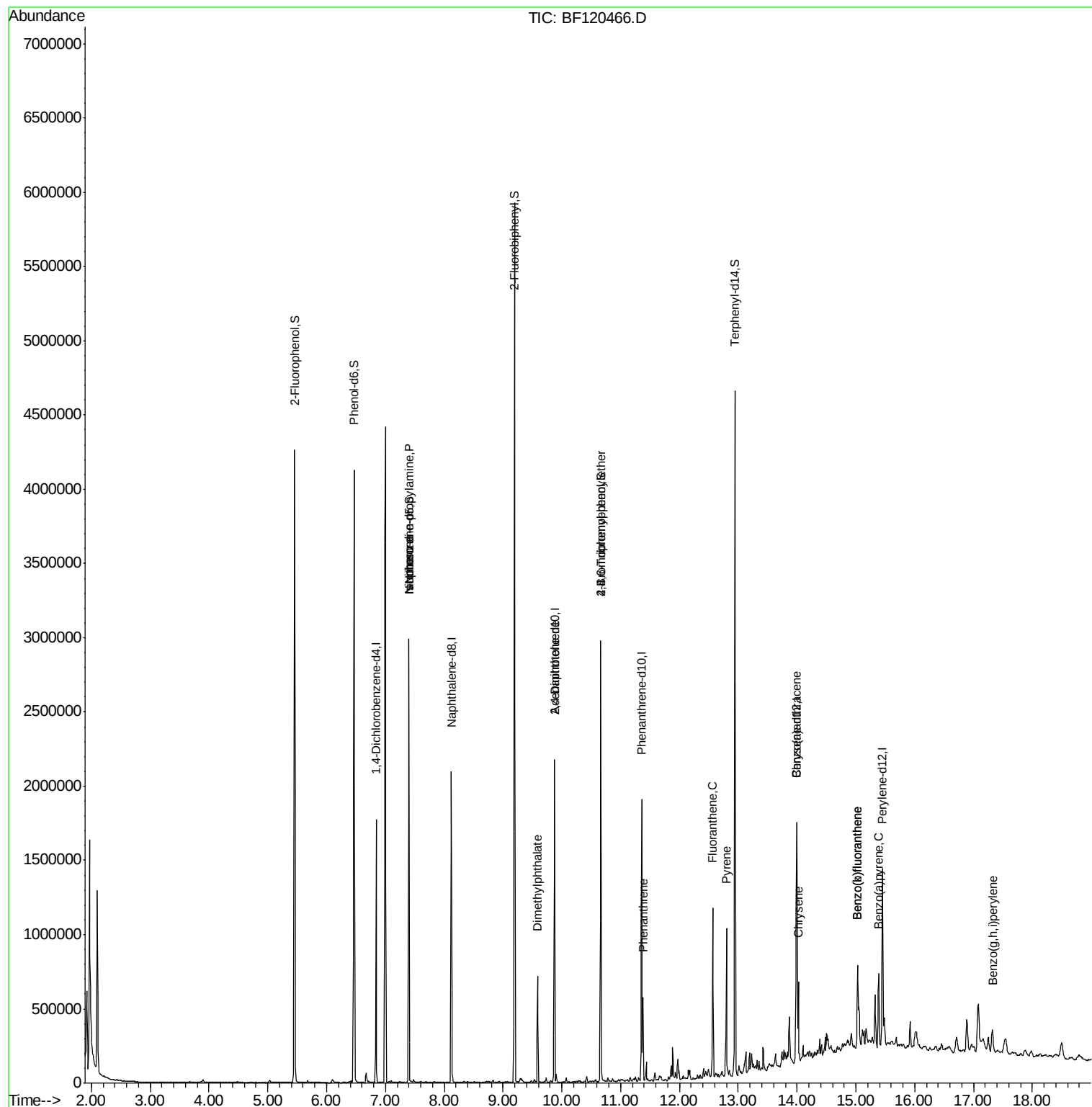
|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70  | 139972  | 14.012 | ng | # 78   |
| 25) Isophorone                 | 7.40  | 82  | 1047693 | 39.490 | ng | # 64   |
| 50) Dimethylphthalate          | 9.59  | 163 | 249034  | 10.031 | ng | 99     |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165 | 50357   | 7.132  | ng | # 22   |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248 | 22720   | 3.526  | ng | # 1    |
| 71) Phenanthrene               | 11.38 | 178 | 188796  | 6.713  | ng | 97     |
| 75) Fluoranthene               | 12.57 | 202 | 406817  | 13.443 | ng | 97     |
| 78) Pyrene                     | 12.80 | 202 | 384189  | 11.171 | ng | 98     |
| 81) Benzo(a)anthracene         | 13.99 | 228 | 219530  | 8.283  | ng | 97     |
| 83) Chrysene                   | 14.02 | 228 | 211105  | 7.597  | ng | 97     |
| 88) Benzo(b)fluoranthene       | 15.03 | 252 | 418511  | 13.331 | ng | 97     |
| 89) Benzo(k)fluoranthene       | 15.03 | 252 | 418511  | 14.279 | ng | 98     |
| 90) Benzo(a)pyrene             | 15.39 | 252 | 234209  | 8.529  | ng | 99     |
| 92) Benzo(a,h,i)perylene       | 17.32 | 276 | 137652  | 5.537  | ng | 96     |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060120\  
Data File : BF120466.D  
Acq On : 1 Jun 2020 13:04  
Operator : JU/CG  
Sample : L2792-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
NM32-COMP-2020-0-6

Quant Time: Jun 01 13:46:42 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 29 12:39:43 2020  
Response via : Initial Calibration



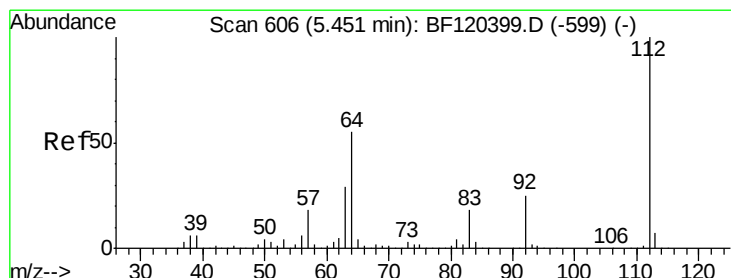
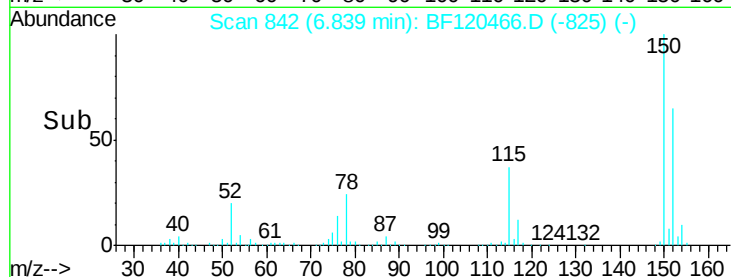
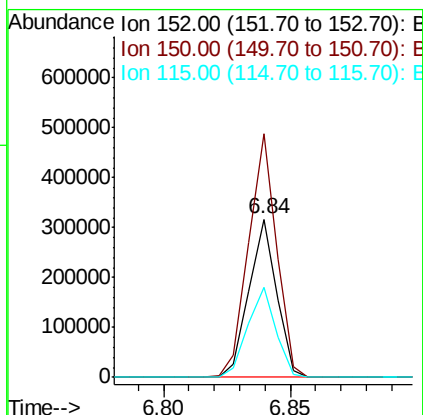
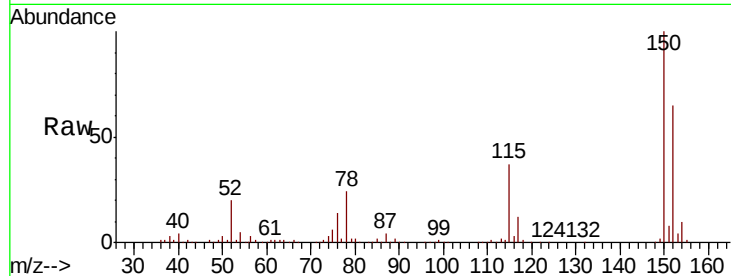


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.84 min Scan# 842  
Delta R.T. -0.00 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

Instrument :  
BNA\_F  
ClientSampleId :  
NM32-COMP-2020-0-6

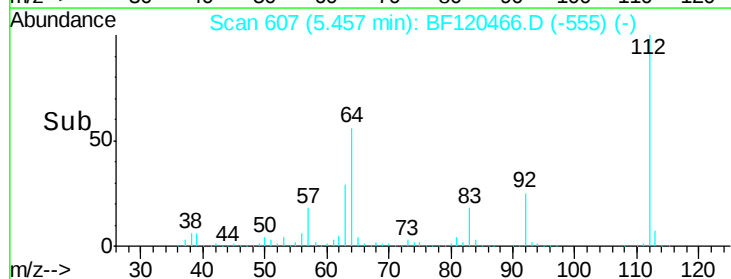
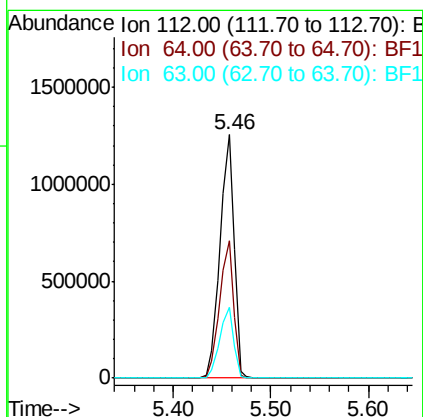
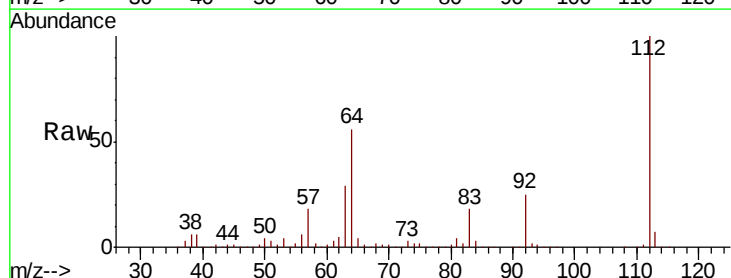
Tot Ion:152 Resp: 242982  
Ion Ratio Lower Upper  
152 100  
150 154.1 126.5 189.7  
115 57.0 47.6 71.4

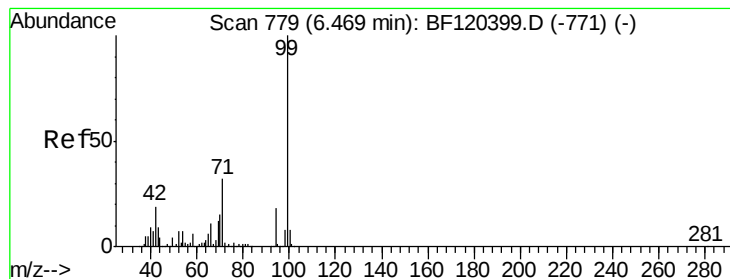


#5

2-Fluorophenol  
Concen: 99.394 ng  
RT: 5.46 min Scan# 607  
Delta R.T. 0.01 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

Tgt Ion:112 Resp: 1267266  
Ion Ratio Lower Upper  
112 100  
64 56.3 44.3 66.5  
63 29.3 22.9 34.3





#7

Phenol-d6

Concen: 102.657 ng

RT: 6.47 min Scan# 779

Delta R.T. -0.00 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

Instrument :

BNA\_F

ClientSampleId :

NM32-COMP-2020-0-6

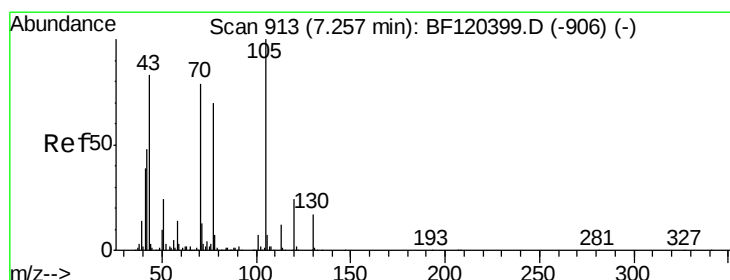
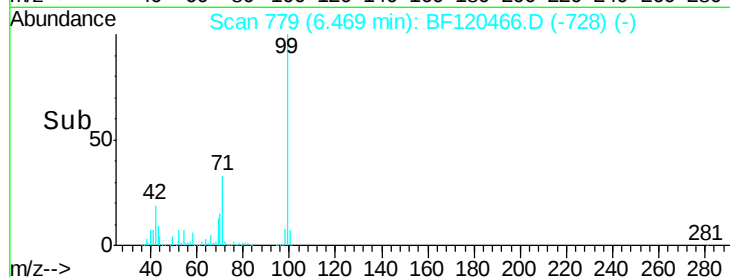
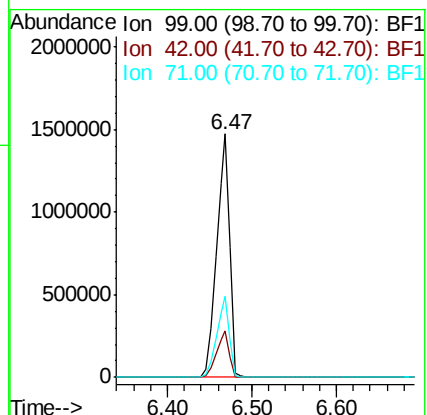
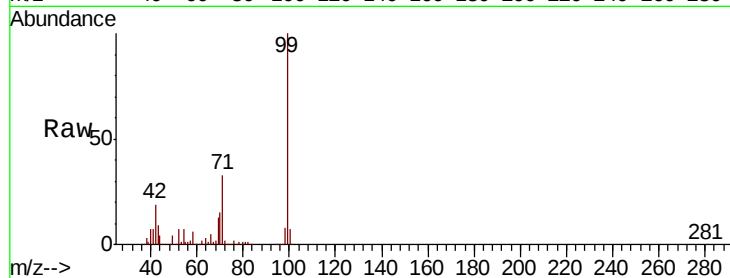
Tot Ion: 99 Resp: 1613283

Ion Ratio Lower Upper

99 100

42 19.2 15.2 22.8

71 33.1 25.6 38.4



#19

n-Nitroso-di-n-propylamine

Concen: 14.012 ng

RT: 7.40 min Scan# 937

Delta R.T. 0.14 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

Tgt Ion: 70 Resp: 139972

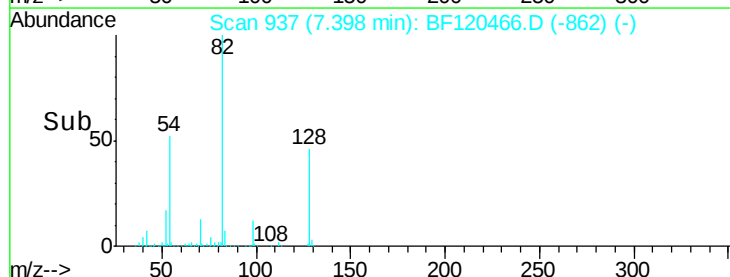
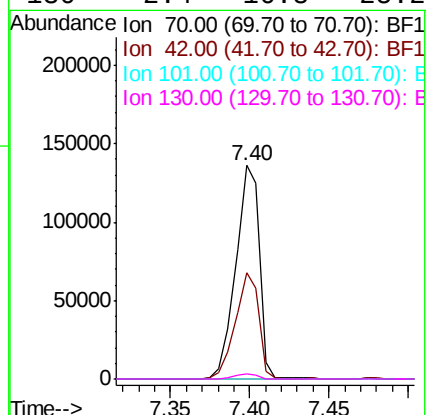
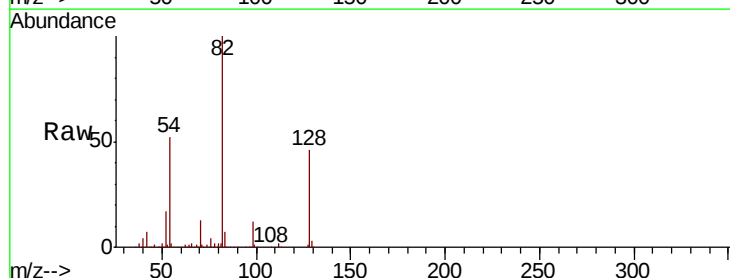
Ion Ratio Lower Upper

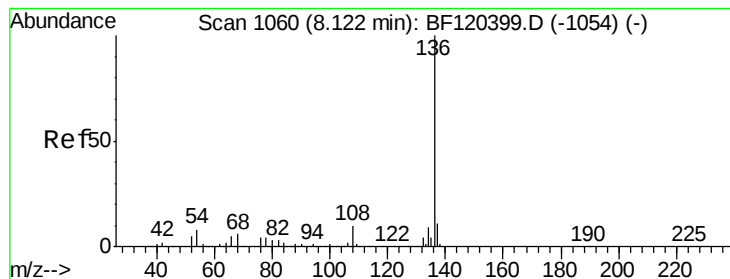
70 100

42 49.8 48.9 73.3

101 0.0 7.4 11.2#

130 2.4 16.8 25.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1060

Delta R.T. -0.00 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

Instrument :

BNA\_F

ClientSampleId :

NM32-COMP-2020-0-6

Tot Ion:136 Resp: 863465

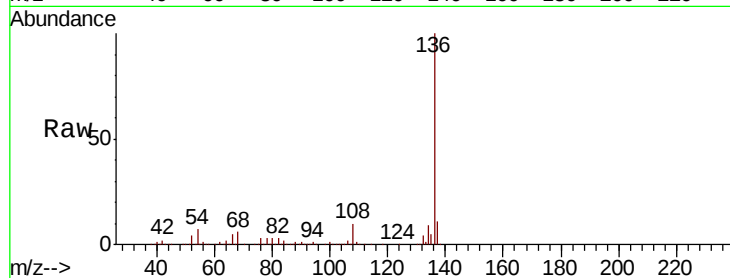
Ion Ratio Lower Upper

136 100

137 10.9 9.1 13.7

54 7.3 6.7 10.1

68 5.5 5.0 7.4

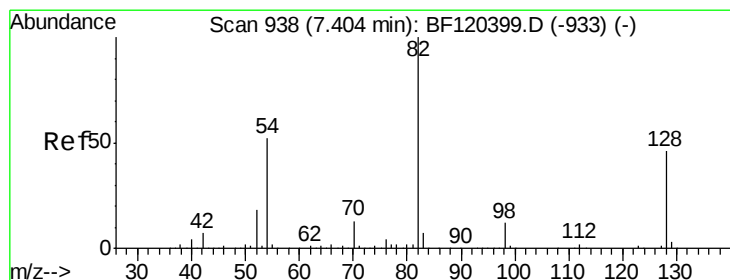
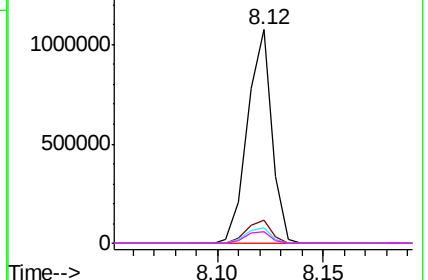
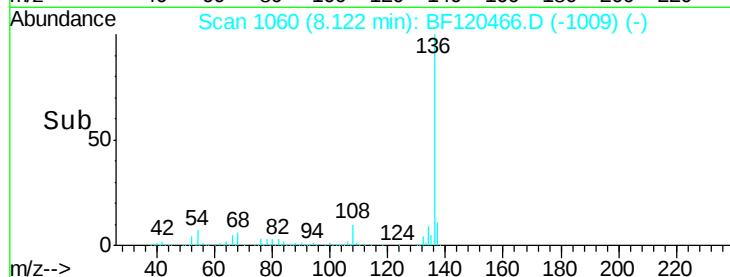


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 79.727 ng

RT: 7.40 min Scan# 937

Delta R.T. -0.01 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

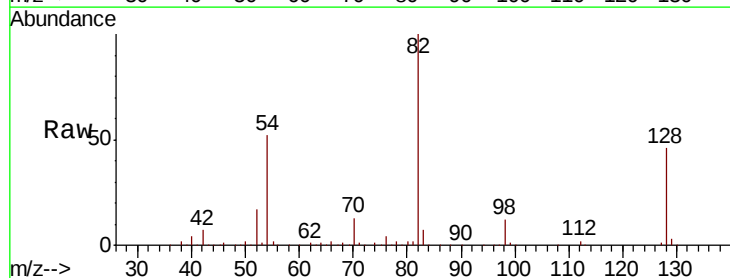
Tgt Ion: 82 Resp: 1052410

Ion Ratio Lower Upper

82 100

128 45.9 36.8 55.2

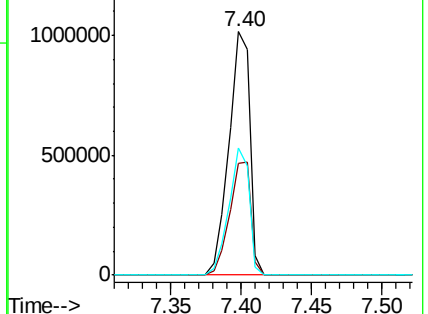
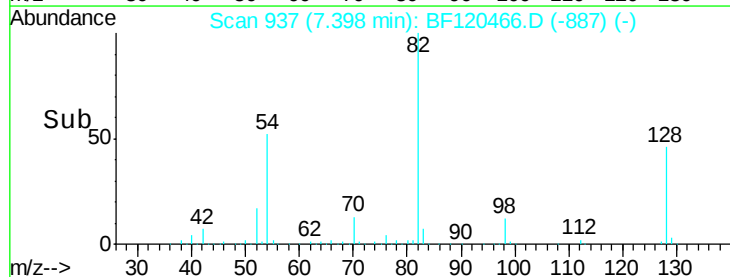
54 52.0 41.6 62.4



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 39.490 ng

RT: 7.40 min Scan# 937

Delta R.T. -0.26 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

Instrument :

BNA\_F

ClientSampleId :

NM32-COMP-2020-0-6

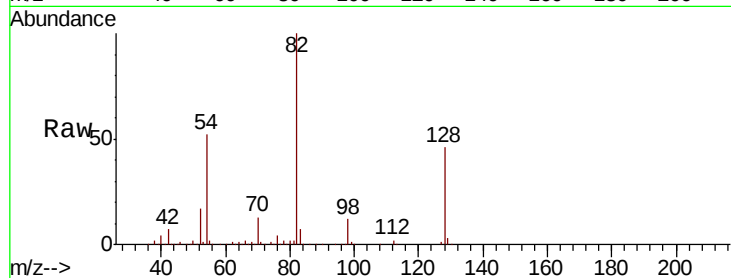
Tot Ion: 82 Resp: 1047693

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

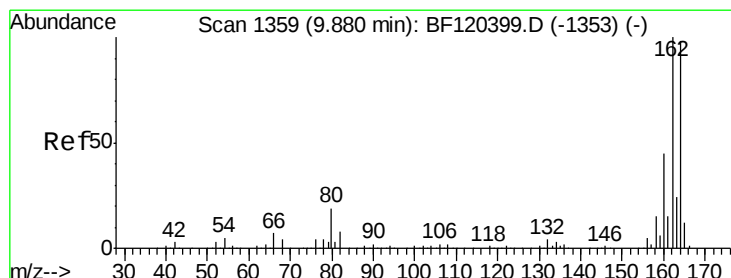
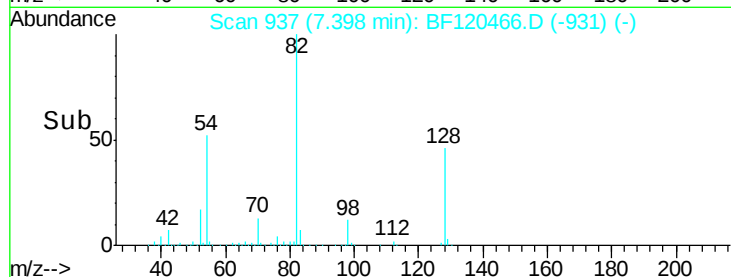
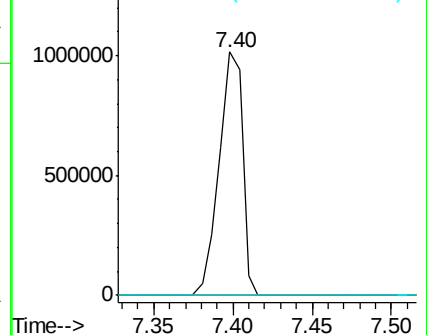
138 0.0 15.0 22.4#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1358

Delta R.T. -0.00 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

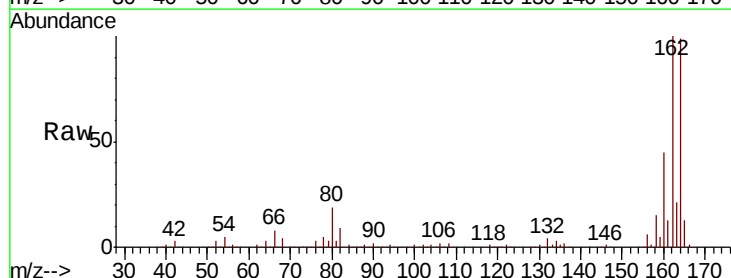
Tgt Ion:164 Resp: 397111

Ion Ratio Lower Upper

164 100

162 100.5 81.3 121.9

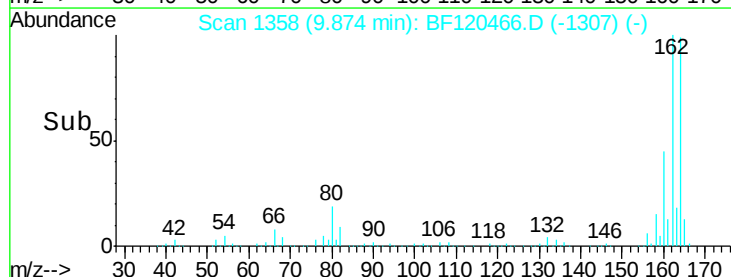
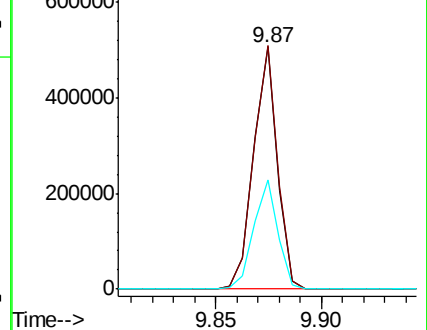
160 45.2 36.9 55.3

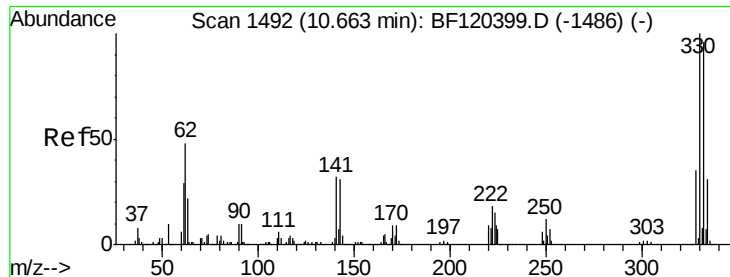


Abundance Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1

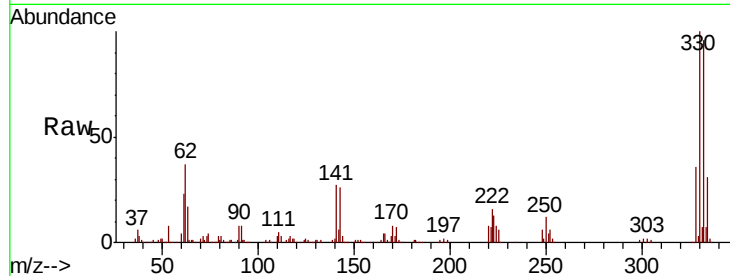




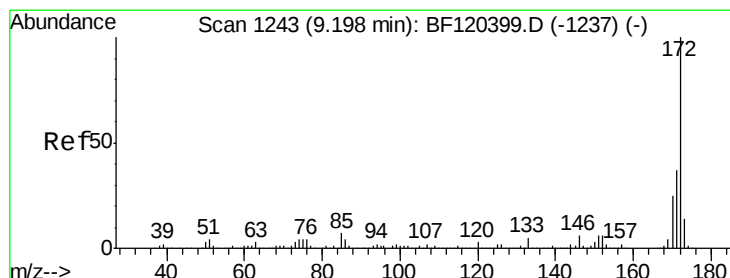
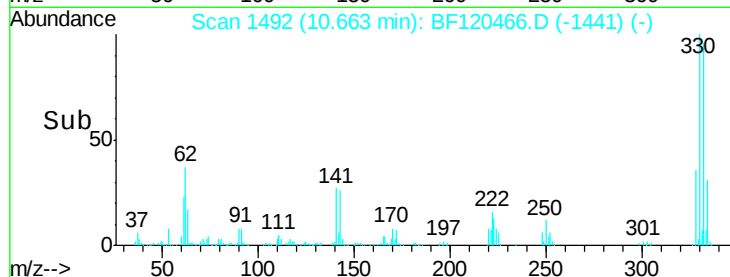
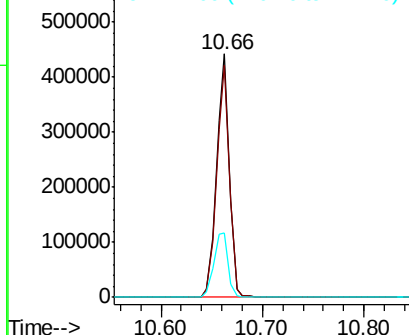
#42  
 2,4,6-Tribromophenol  
 Concen: 104.905 ng  
 RT: 10.66 min Scan# 1492  
 Delta R.T. -0.00 min  
 Lab File: BF120466.D  
 Acq: 1 Jun 2020 13:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM32-COMP-2020-0-6

Tot Ion:330 Resp: 385989  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 77.0 115.6  
 141 30.0 25.3 37.9

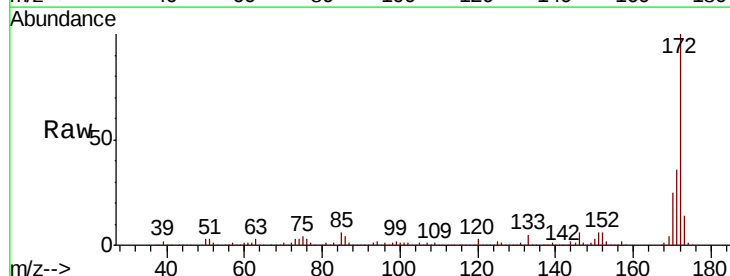


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

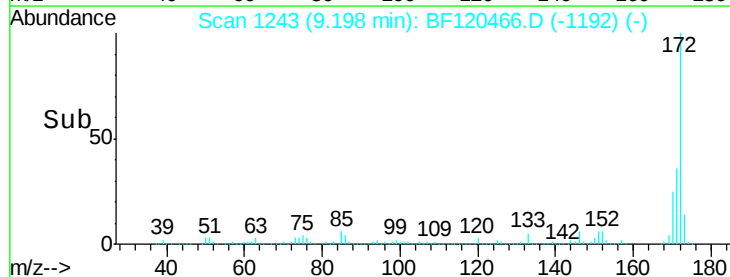
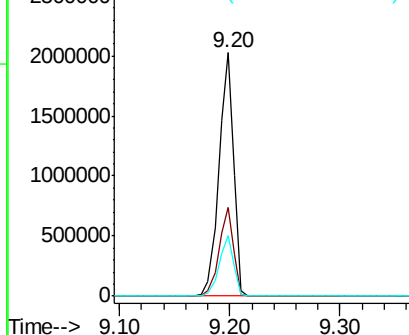


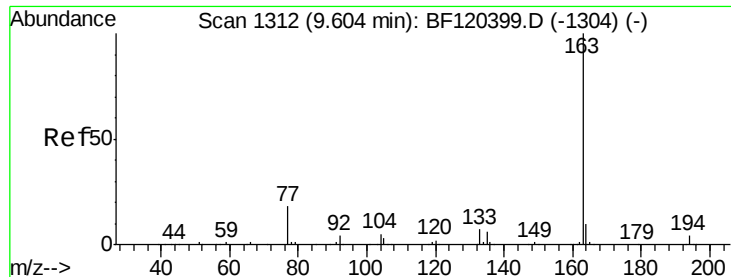
#45  
 2-Fluorobiphenyl  
 Concen: 79.226 ng  
 RT: 9.20 min Scan# 1243  
 Delta R.T. -0.00 min  
 Lab File: BF120466.D  
 Acq: 1 Jun 2020 13:04

Tgt Ion:172 Resp: 1854295  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 29.7 44.5  
 170 24.7 19.9 29.9



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

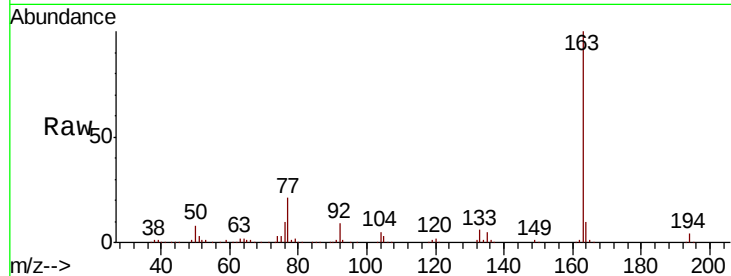




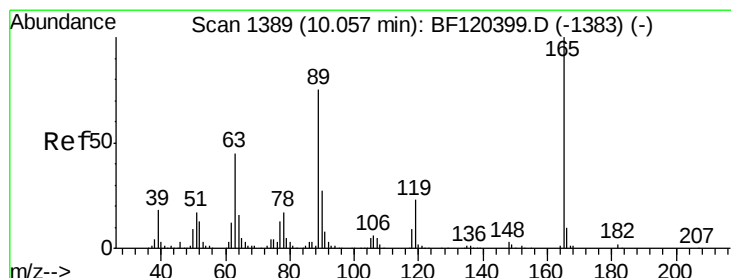
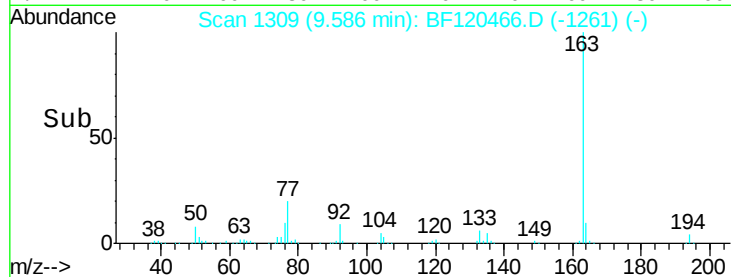
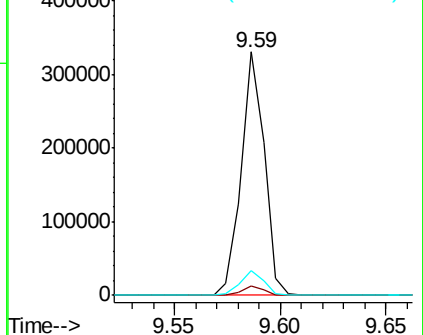
#50  
Dimethylphthalate  
Concen: 10.031 ng  
RT: 9.59 min Scan# 1309  
Delta R.T. -0.02 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

Instrument :  
BNA\_F  
ClientSampleId :  
NM32-COMP-2020-0-6

Tot Ion:163 Resp: 249034  
Ion Ratio Lower Upper  
163 100  
194 3.7 3.3 4.9  
164 10.0 8.3 12.5

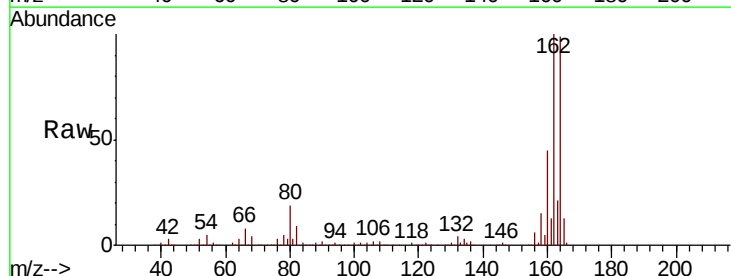


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

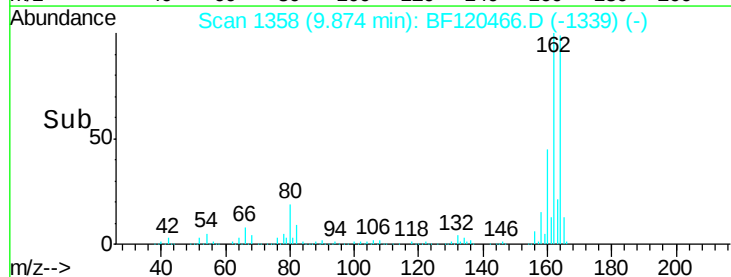
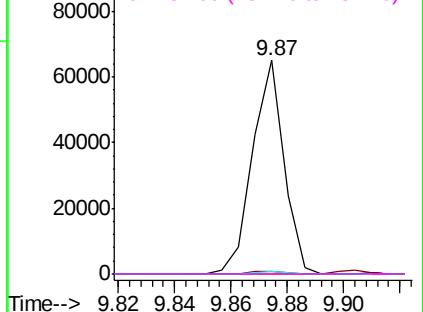


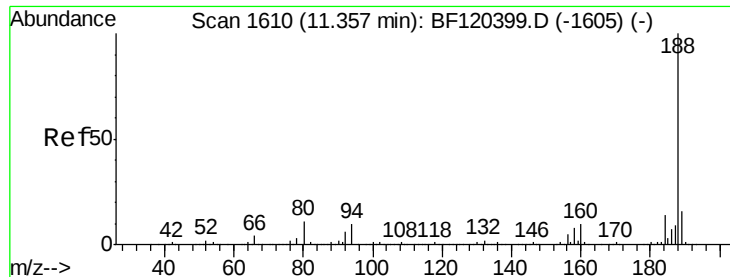
#57  
2,4-Dinitrotoluene  
Concen: 7.132 ng  
RT: 9.87 min Scan# 1358  
Delta R.T. -0.19 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

Tgt Ion:165 Resp: 50357  
Ion Ratio Lower Upper  
165 100  
63 1.3 35.9 53.9#  
89 1.1 60.0 90.0#  
182 0.0 2.0 3.0#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

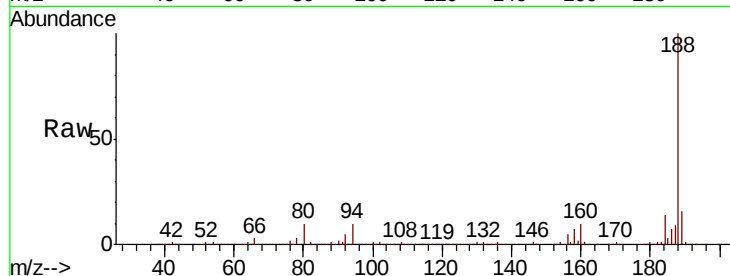




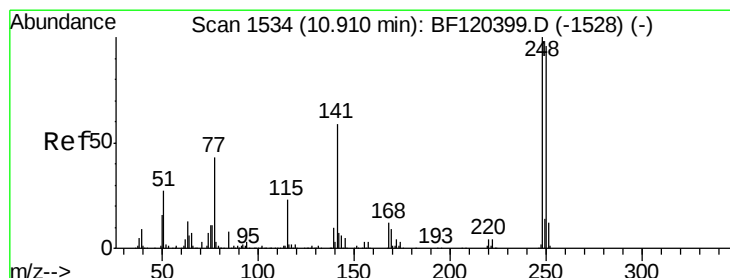
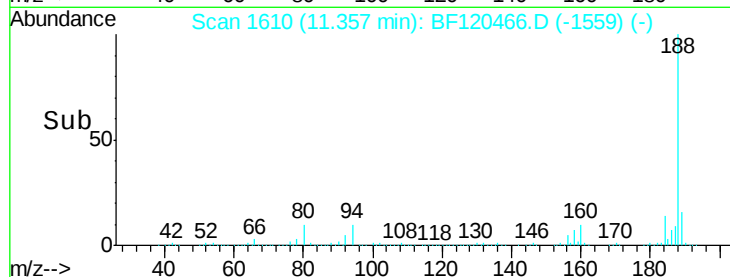
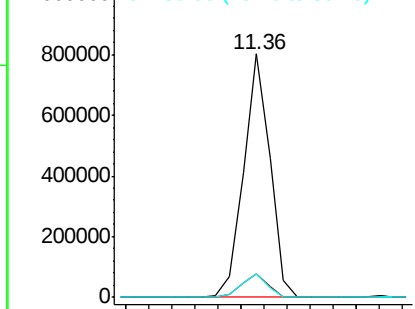
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1610  
Delta R.T. -0.00 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

Instrument :  
BNA\_F  
ClientSampleId :  
NM32-COMP-2020-0-6

Tot Ion:188 Resp: 638262  
Ion Ratio Lower Upper  
188 100  
94 9.7 7.9 11.9  
80 9.5 8.6 13.0

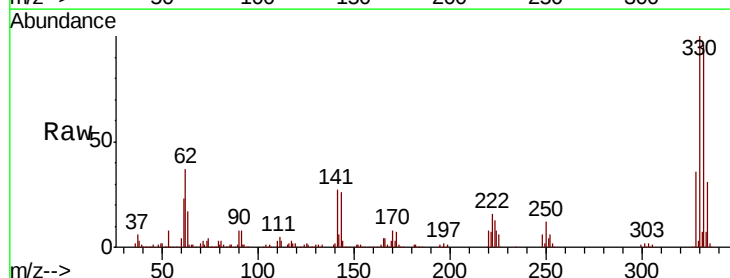


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

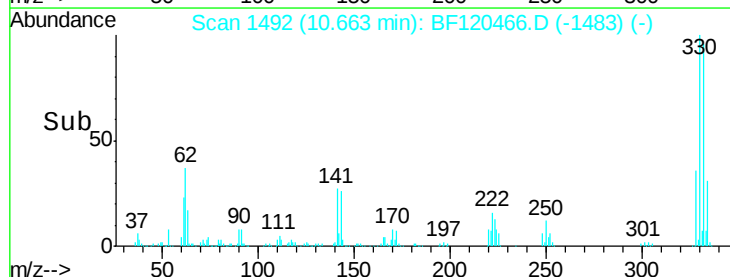
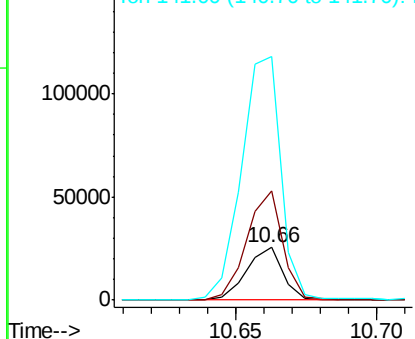


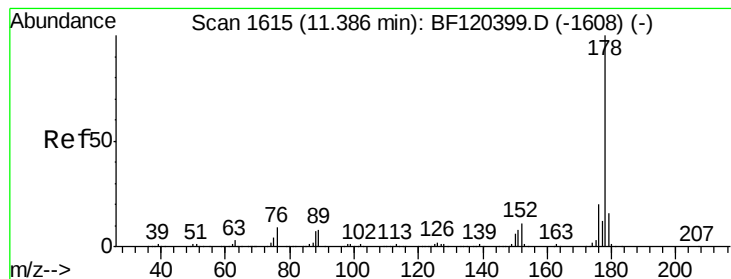
#67  
4-Bromophenyl-phenylether  
Concen: 3.526 ng  
RT: 10.66 min Scan# 1492  
Delta R.T. -0.25 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

Tgt Ion:248 Resp: 22720  
Ion Ratio Lower Upper  
248 100  
250 207.8 76.5 114.7#  
141 463.5 47.2 70.8#



Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 6.713 ng

RT: 11.38 min Scan# 1614

Delta R.T. -0.01 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

Instrument :

BNA\_F

ClientSampleId :

NM32-COMP-2020-0-6

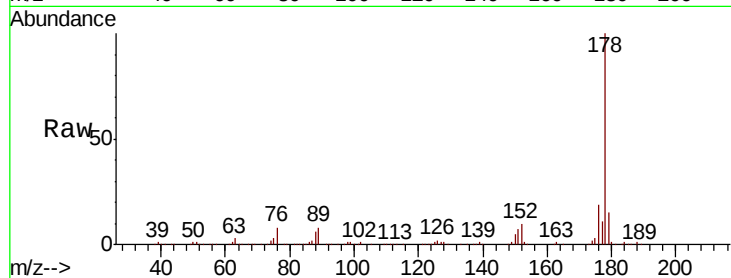
Tot Ion:178 Resp: 188796

Ion Ratio Lower Upper

178 100

176 18.5 16.4 24.6

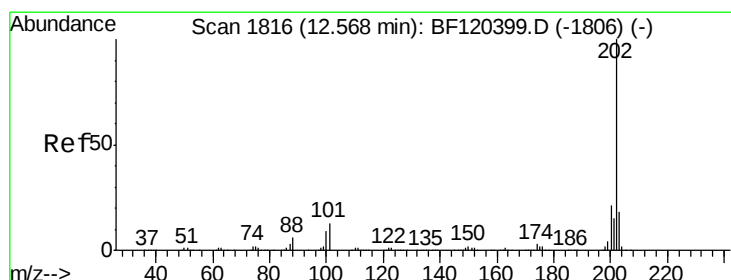
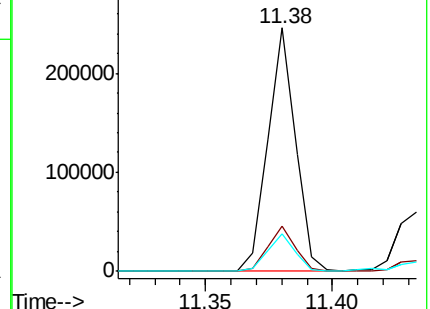
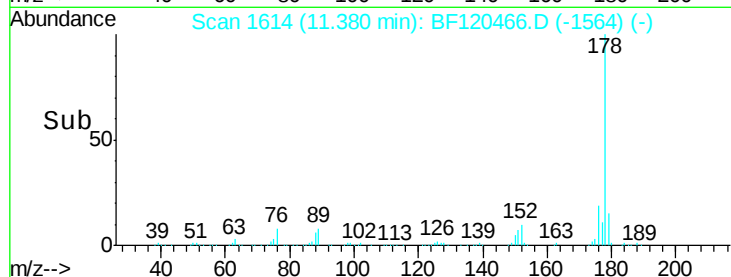
179 15.5 13.0 19.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 13.443 ng

RT: 12.57 min Scan# 1816

Delta R.T. -0.01 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

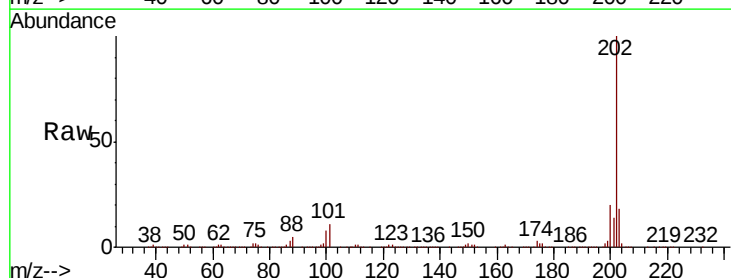
Tgt Ion:202 Resp: 406817

Ion Ratio Lower Upper

202 100

101 10.9 0.0 32.6

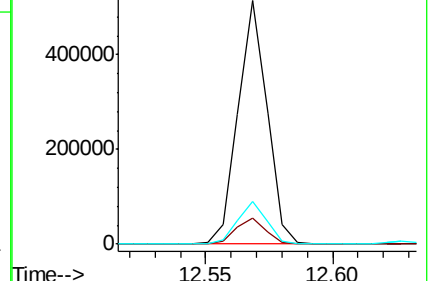
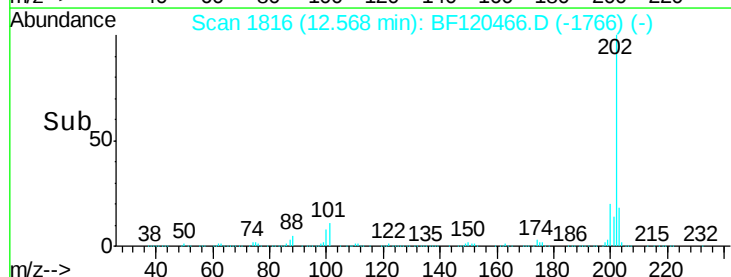
203 17.6 0.0 38.4

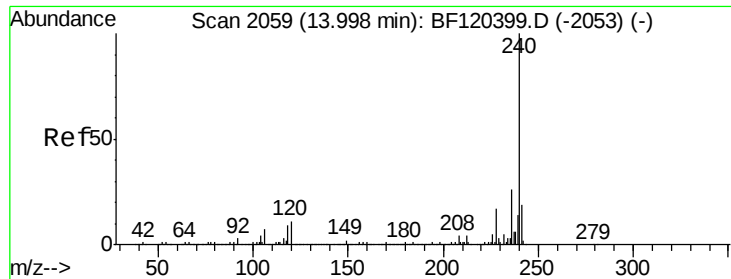


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

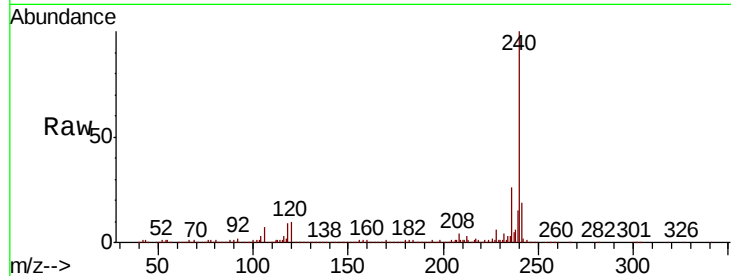




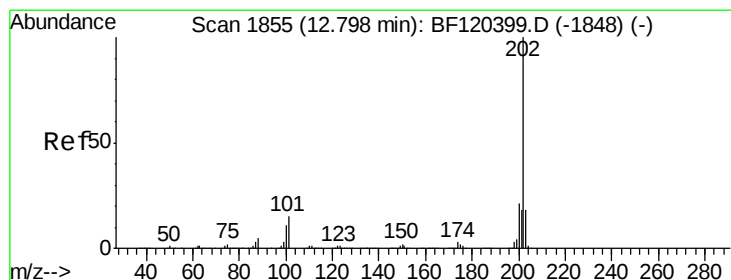
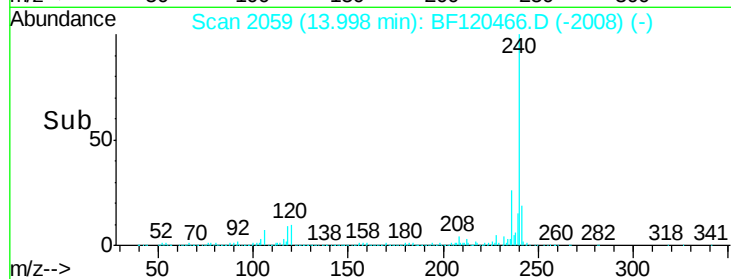
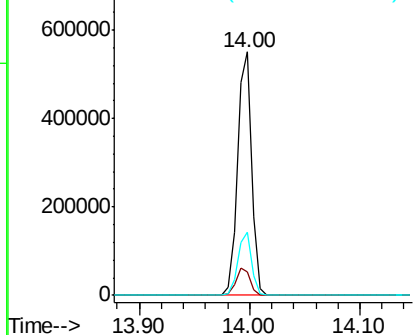
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.00 min Scan# 2059  
Delta R.T. -0.00 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

Instrument :  
BNA\_F  
ClientSampleId :  
NM32-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.8   | 8.8   | 13.2  |
| 236     | 25.9  | 21.0  | 31.4  |

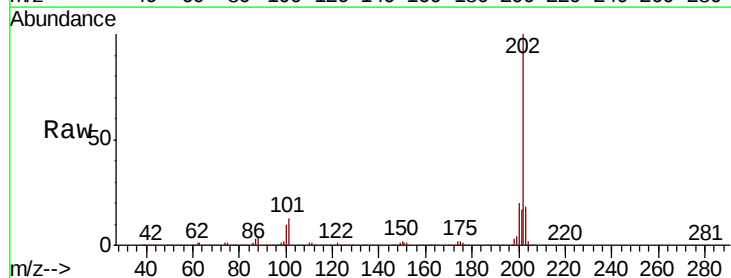


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

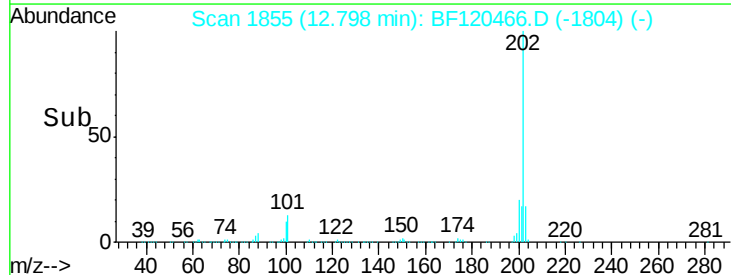
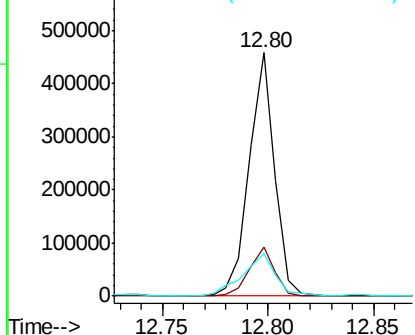


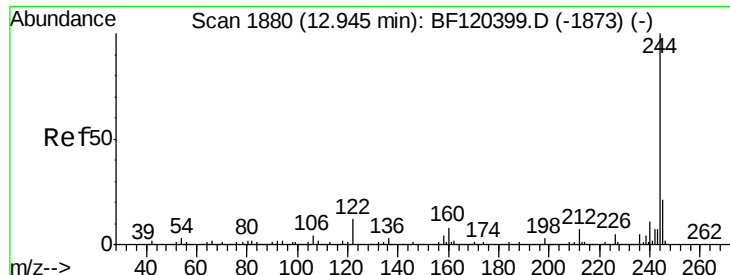
#78  
Pyrene  
Concen: 11.171 ng  
RT: 12.80 min Scan# 1855  
Delta R.T. -0.00 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.2  | 17.0  | 25.4  |
| 203     | 17.7  | 14.7  | 22.1  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 72.997 ng

RT: 12.94 min Scan# 1880

Delta R.T. -0.00 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

Instrument :

BNA\_F

ClientSampleId :

NM32-COMP-2020-0-6

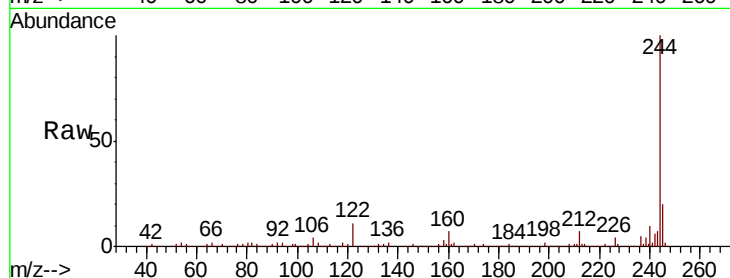
Tot Ion:244 Resp: 1622308

Ion Ratio Lower Upper

244 100

212 6.7 5.9 8.9

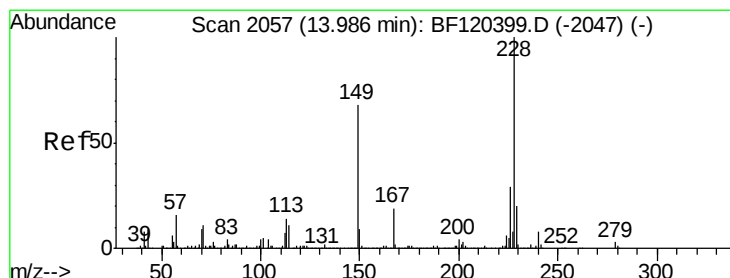
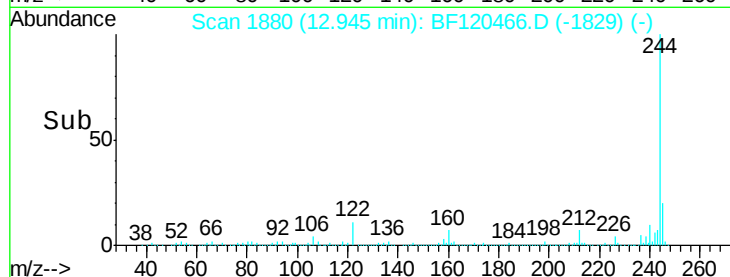
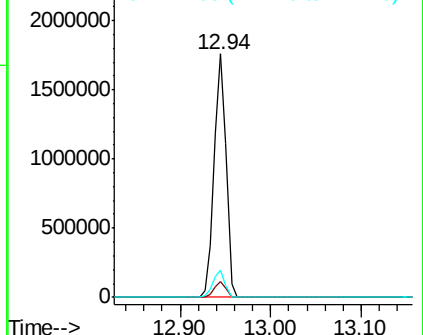
122 11.1 9.2 13.8



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



#81

Benzo(a)anthracene

Concen: 8.283 ng

RT: 13.99 min Scan# 2057

Delta R.T. -0.00 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

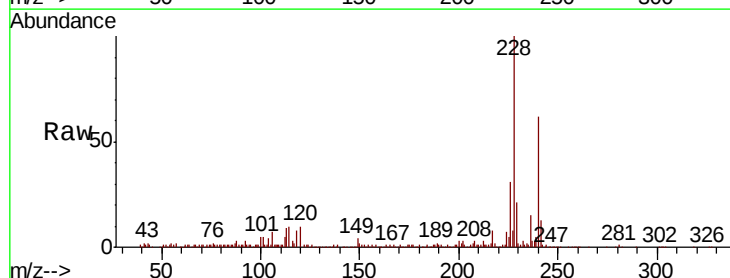
Tgt Ion:228 Resp: 219530

Ion Ratio Lower Upper

228 100

226 30.5 23.0 34.4

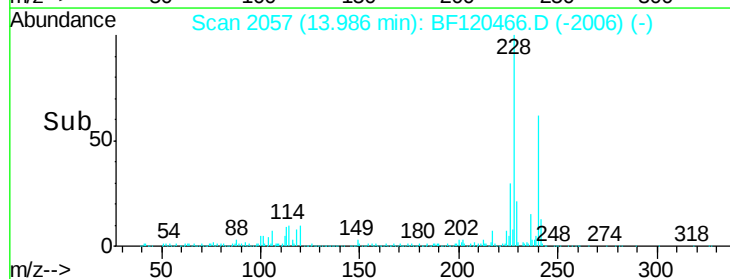
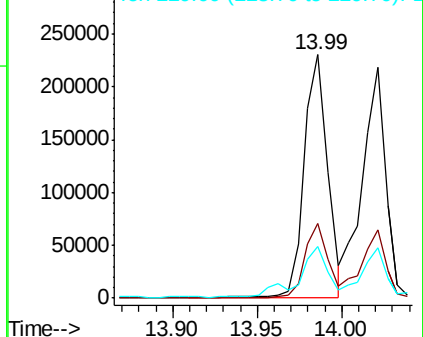
229 21.0 16.2 24.4

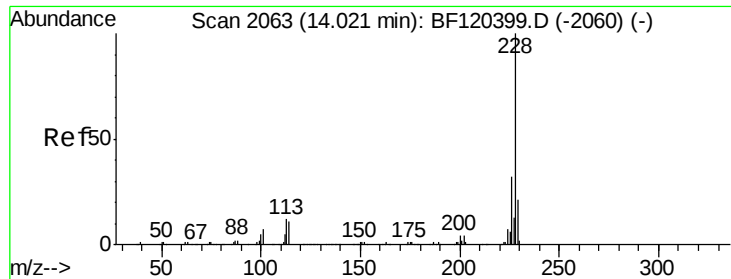


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

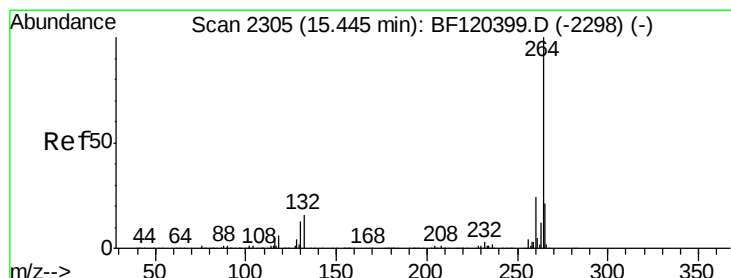
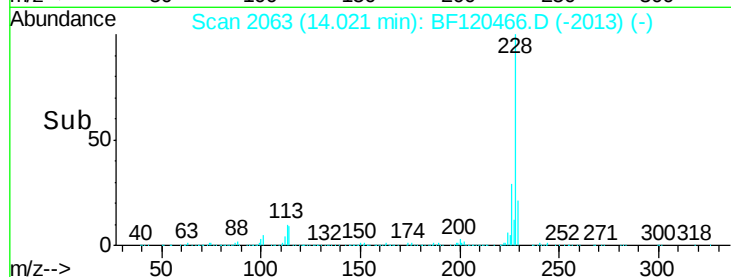
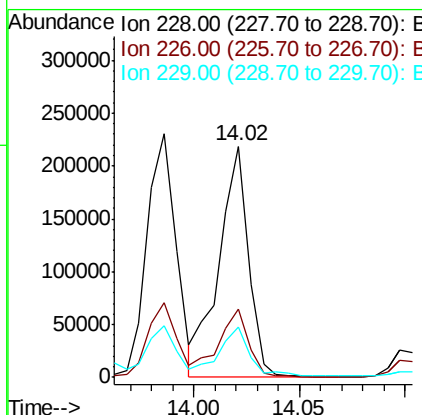
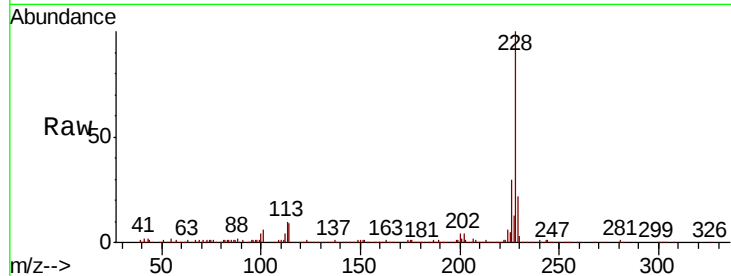




#83  
Chrysene  
Concen: 7.597 ng  
RT: 14.02 min Scan# 2063  
Delta R.T. -0.01 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

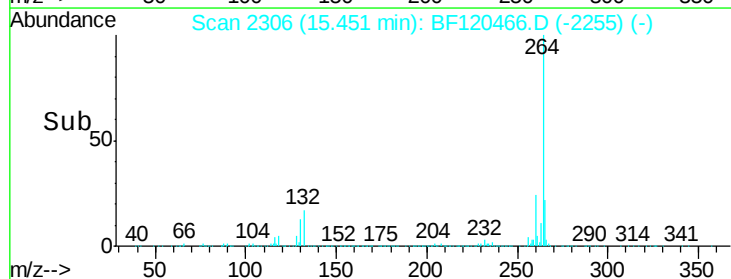
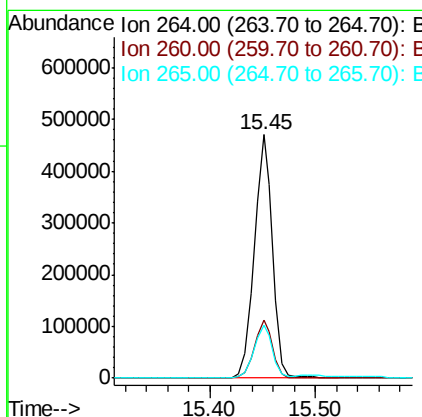
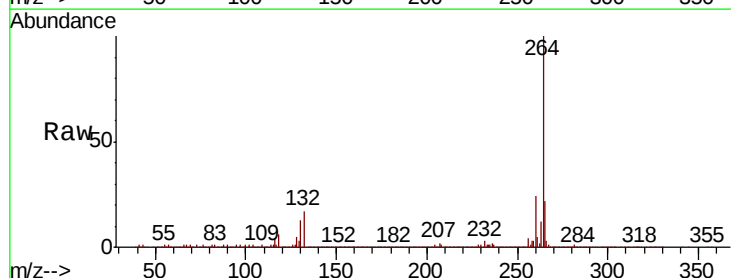
Instrument :  
BNA\_F  
ClientSampleId :  
NM32-COMP-2020-0-6

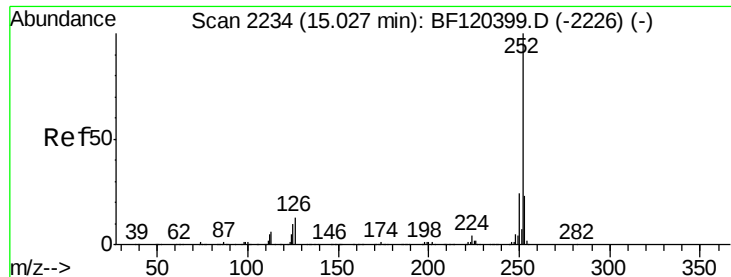
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 25.6  | 38.4  |
| 229     | 21.8  | 16.6  | 25.0  |



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.45 min Scan# 2306  
Delta R.T. -0.00 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 19.2  | 28.8  |
| 265     | 21.9  | 16.9  | 25.3  |

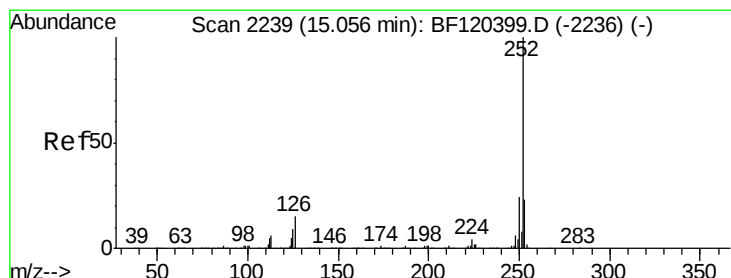
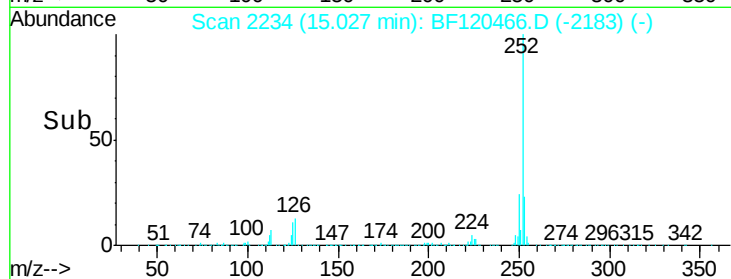
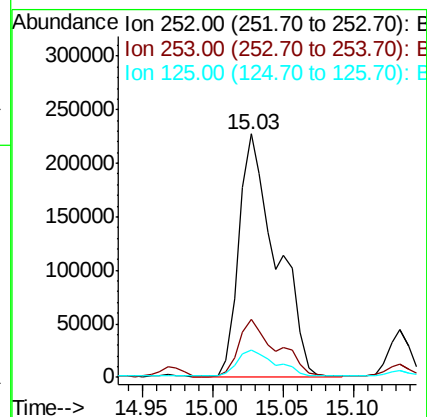
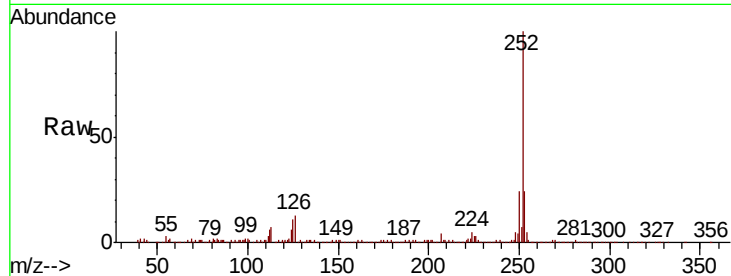




#88  
Benzo(b)fluoranthene  
Concen: 13.331 ng  
RT: 15.03 min Scan# 2234  
Delta R.T. -0.00 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

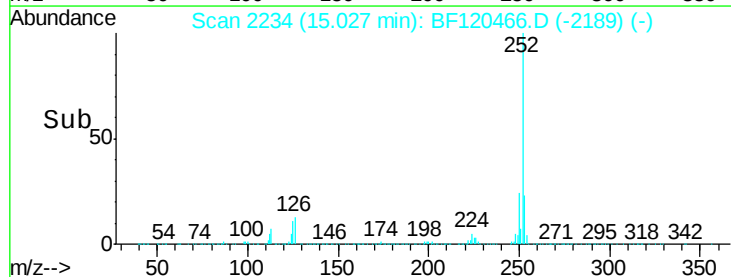
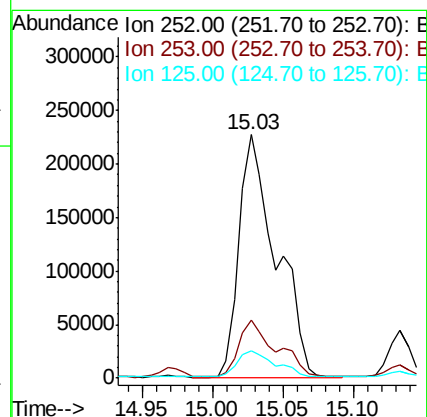
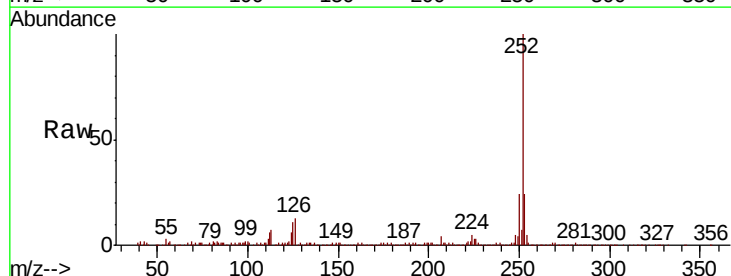
Instrument :  
BNA\_F  
ClientSampleId :  
NM32-COMP-2020-0-6

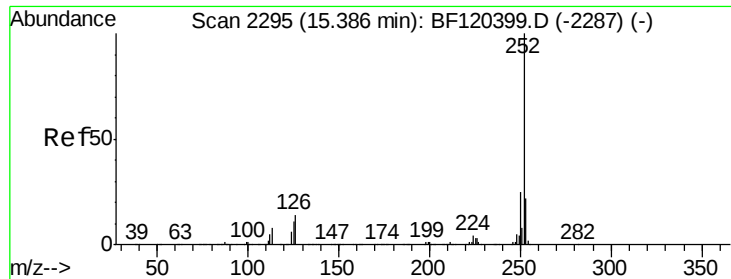
Tot Ion:252 Resp: 418511  
Ion Ratio Lower Upper  
252 100  
253 23.7 18.1 27.1  
125 11.2 7.8 11.8



#89  
Benzo(k)fluoranthene  
Concen: 14.279 ng  
RT: 15.03 min Scan# 2234  
Delta R.T. -0.04 min  
Lab File: BF120466.D  
Acq: 1 Jun 2020 13:04

Tgt Ion:252 Resp: 418511  
Ion Ratio Lower Upper  
252 100  
253 23.7 18.5 27.7  
125 11.2 8.0 12.0





#90

Benzo(a)pyrene

Concen: 8.529 ng

RT: 15.39 min Scan# 2295

Delta R.T. -0.01 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

Instrument :

BNA\_F

ClientSampleId :

NM32-COMP-2020-0-6

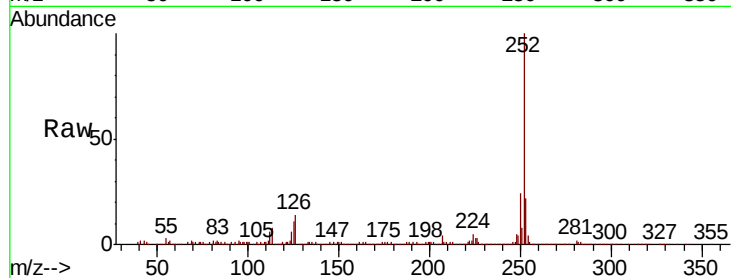
Tot Ion:252 Resp: 234209

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

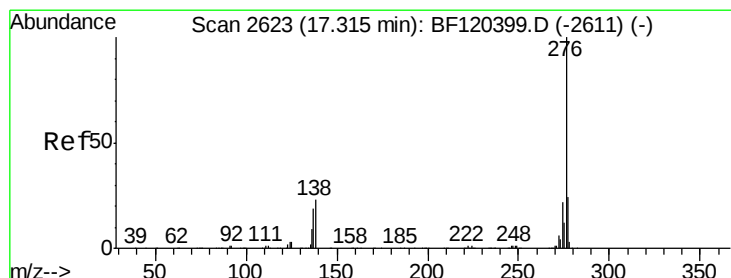
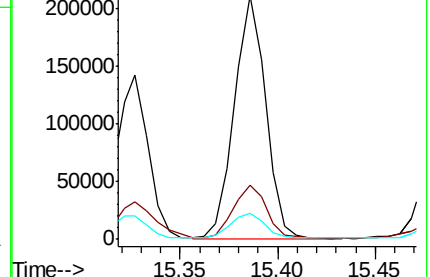
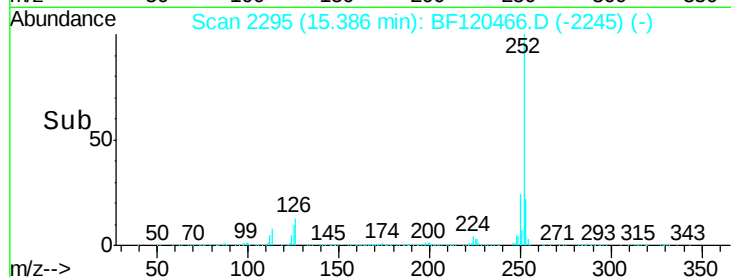
125 10.6 8.7 13.1



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



#92

Benzo(g,h,i)perylene

Concen: 5.537 ng

RT: 17.32 min Scan# 2624

Delta R.T. -0.01 min

Lab File: BF120466.D

Acq: 1 Jun 2020 13:04

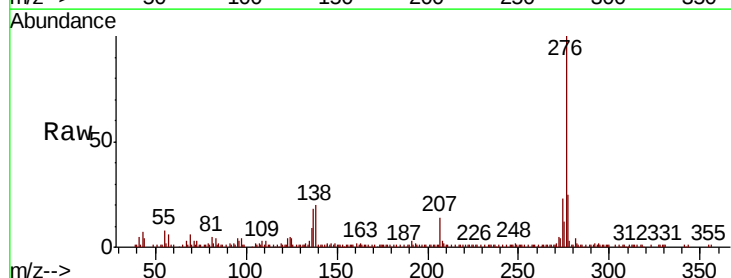
Tgt Ion:276 Resp: 137652

Ion Ratio Lower Upper

276 100

277 25.0 19.5 29.3

138 19.6 18.1 27.1



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

