

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072320\  
 Data File : BF120989.D  
 Acq On : 23 Jul 2020 19:23  
 Operator : JU/CG  
 Sample : PB130431BL  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 24 00:46:20 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 16 14:20:32 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.81  | 152  | 149883   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 559383   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.85  | 164  | 297413   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.33 | 188  | 596494   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.96 | 240  | 501380   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.41 | 264  | 449858   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.43  | 112  | 1114241  | 121.87 | ng    | 0.01     |
| 7) Phenol-d6                | 6.45  | 99   | 1351406  | 114.43 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 852972   | 88.23  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 427783   | 131.40 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.17  | 172  | 1637932  | 82.23  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.92 | 244  | 1696515  | 73.55  | ng    | 0.00     |

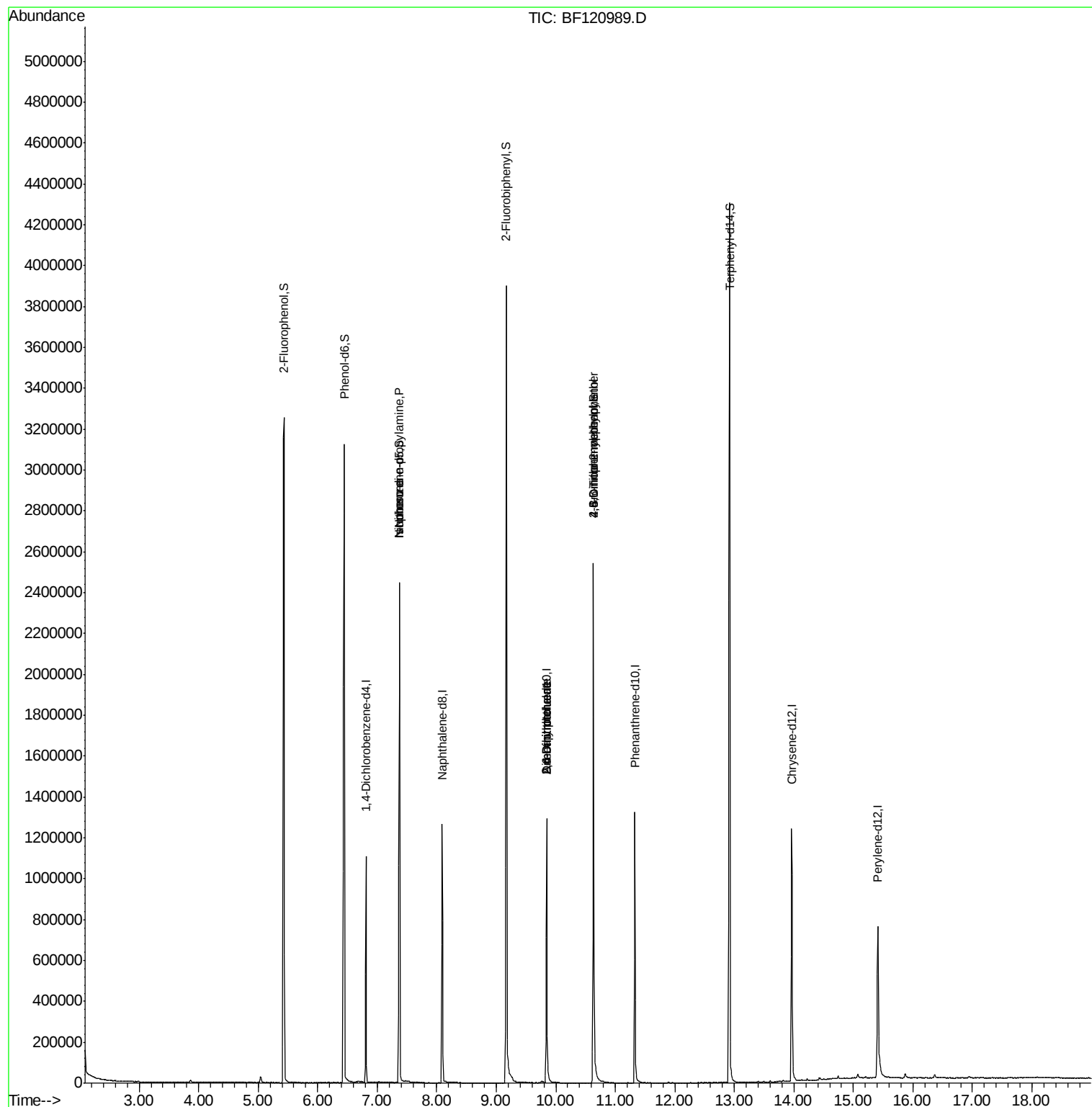
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.45  | 77   | 1837     | Below Cal | #     | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 112149   | 16.700    | ng    | # 76   |
| 25) Isophorone                 | 7.37  | 82   | 849567   | 44.033    | ng    | # 63   |
| 50) Dimethylphthalate          | 9.85  | 163  | 54803    | 2.554     | ng    | # 1    |
| 51) 2,6-Dinitrotoluene         | 9.85  | 165  | 37581    | 8.153     | ng    | # 24   |
| 57) 2,4-Dinitrotoluene         | 9.85  | 165  | 37837    | 6.250     | ng    | # 27   |
| 65) 4,6-Dinitro-2-methylphenol | 10.63 | 198  | 677      | 4.023     | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.63 | 248  | 24508    | 3.685     | ng    | # 1    |

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

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Sample : PB130431BL  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jul 24 00:46:20 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M  
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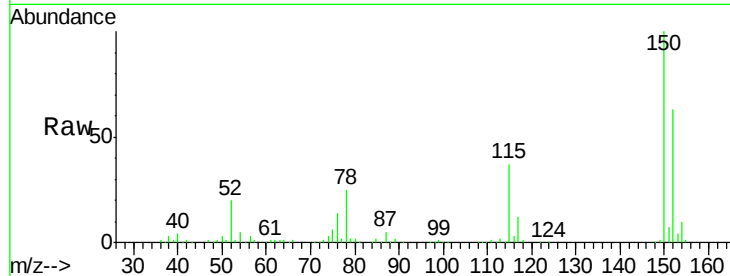


#1

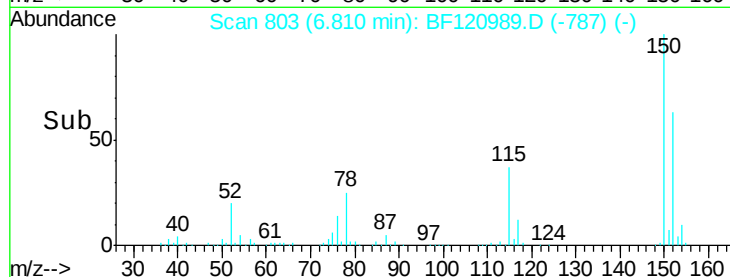
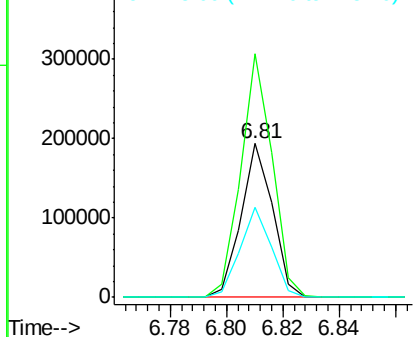
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.81 min Scan# 803  
Delta R.T. -0.01 min  
Lab File: BF120989.D  
Acq: 23 Jul 2020 19:23

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 149883  
Ion Ratio Lower Upper  
152 100  
150 158.4 125.0 187.6  
115 58.9 47.0 70.4



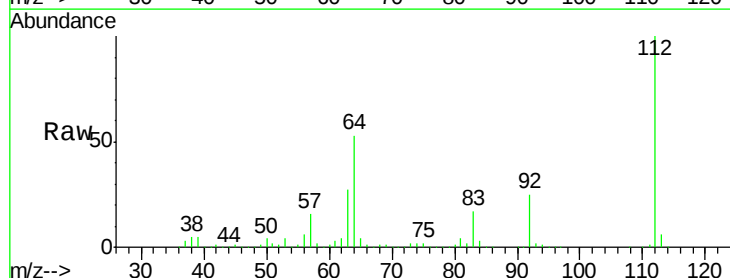
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



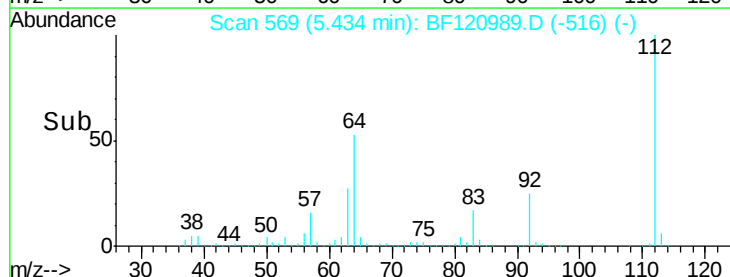
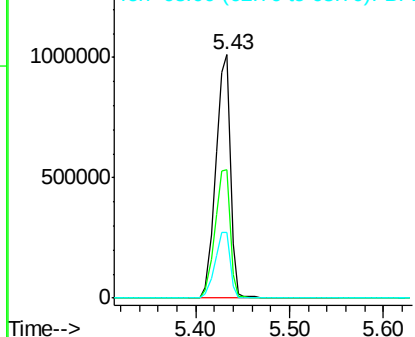
#5

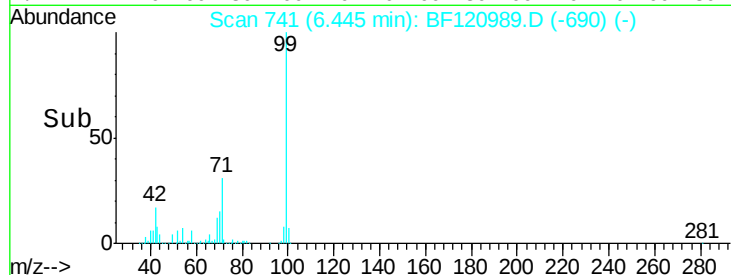
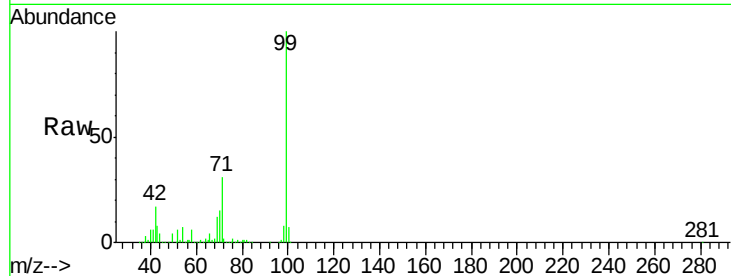
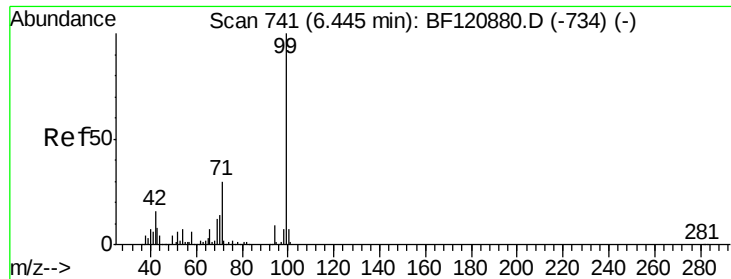
2-Fluorophenol  
Concen: 121.871 ng  
RT: 5.43 min Scan# 569  
Delta R.T. 0.01 min  
Lab File: BF120989.D  
Acq: 23 Jul 2020 19:23

Tgt Ion:112 Resp: 1114241  
Ion Ratio Lower Upper  
112 100  
64 52.8 41.3 61.9  
63 27.2 21.1 31.7



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 114.427 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.00 min

Lab File: BF120989.D

Acq: 23 Jul 2020 19:23

Instrument :

BNA\_F

ClientSampleId :

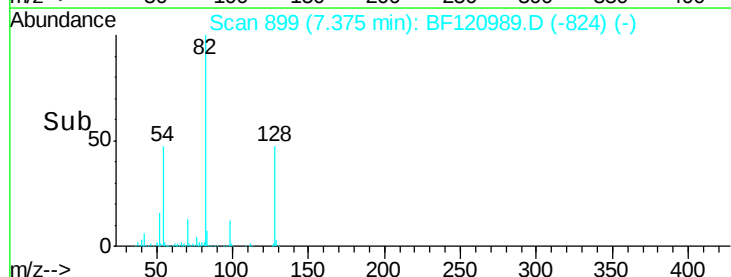
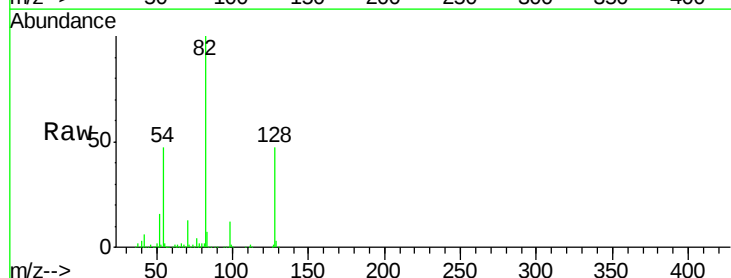
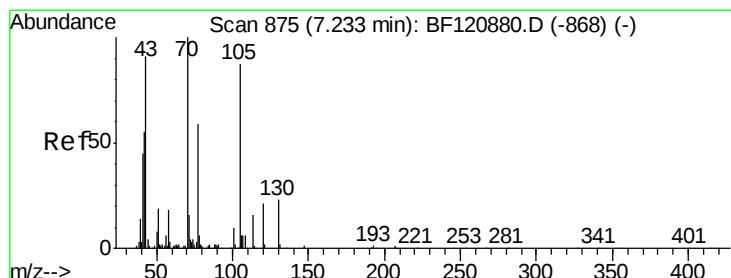
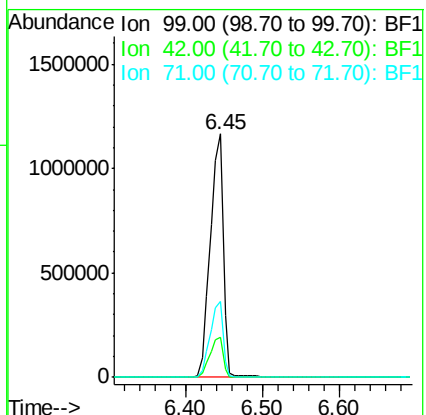
Tot Ion: 99 Resp: 1351406

Ion Ratio Lower Upper

99 100

42 16.5 13.1 19.7

71 31.3 24.2 36.4



#19

n-Nitroso-di-n-propylamine

Concen: 16.700 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.14 min

Lab File: BF120989.D

Acq: 23 Jul 2020 19:23

Tgt Ion: 70 Resp: 112149

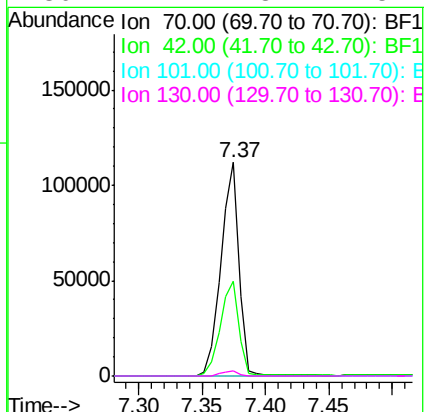
Ion Ratio Lower Upper

70 100

42 44.1 44.0 66.0

101 0.0 7.8 11.6#

130 2.4 18.7 28.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF120989.D

Acq: 23 Jul 2020 19:23

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 559383

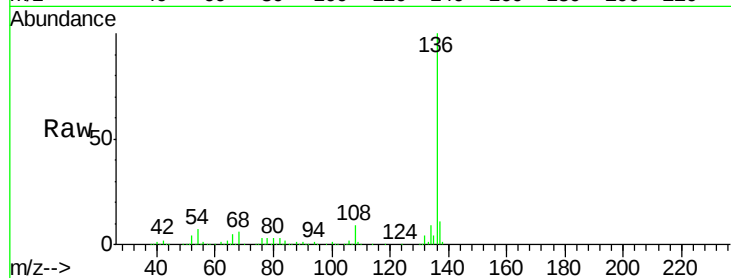
Ion Ratio Lower Upper

136 100

137 11.1 9.3 13.9

54 7.0 6.3 9.5

68 5.8 5.0 7.4

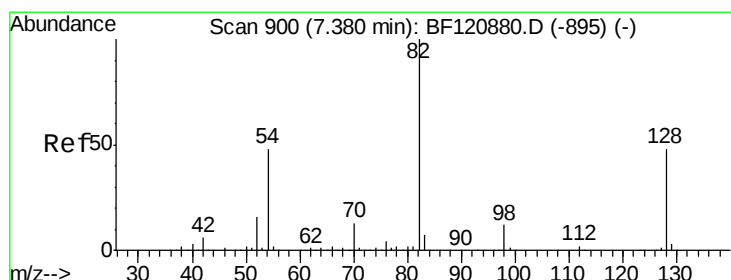
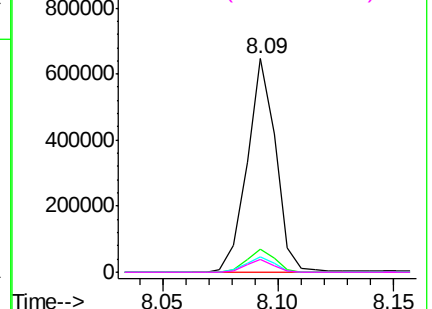
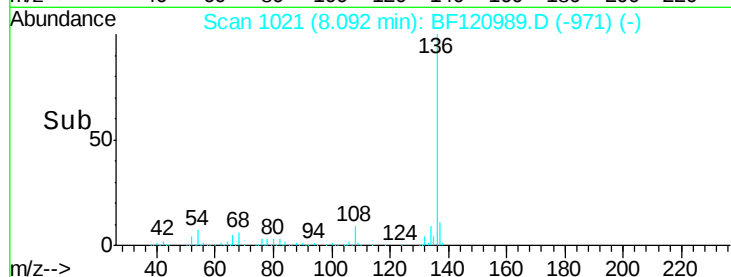


Abundance Ion 136.00 (135.70 to 136.70): E

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: 88.232 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.01 min

Lab File: BF120989.D

Acq: 23 Jul 2020 19:23

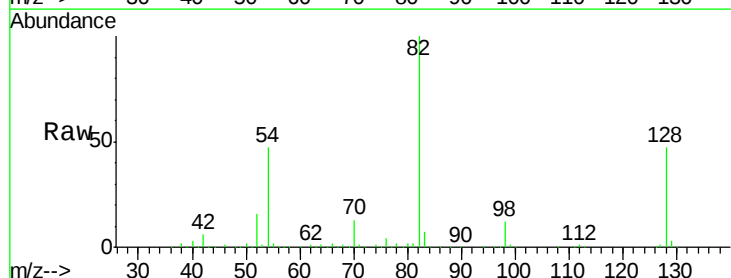
Tgt Ion: 82 Resp: 852972

Ion Ratio Lower Upper

82 100

128 46.6 38.2 57.4

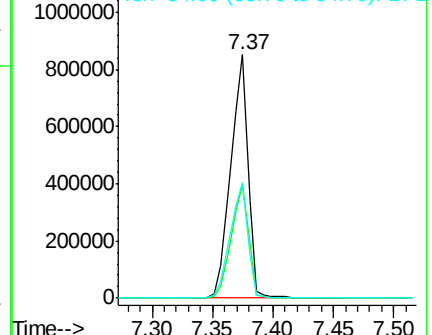
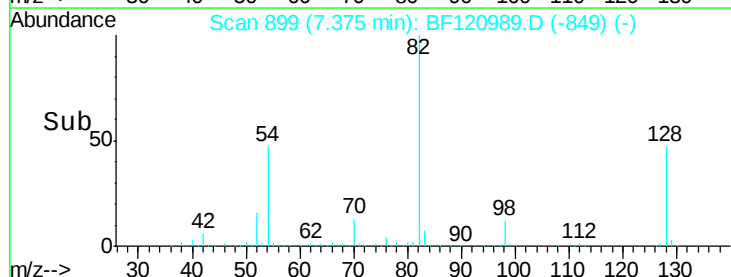
54 47.4 38.7 58.1



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: 44.033 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.26 min

Lab File: BF120989.D

Acq: 23 Jul 2020 19:23

Instrument :

BNA\_F

ClientSampleId :

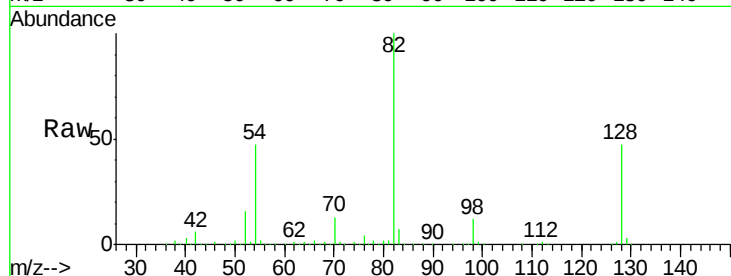
Tot Ion: 82 Resp: 849567

Ion Ratio Lower Upper

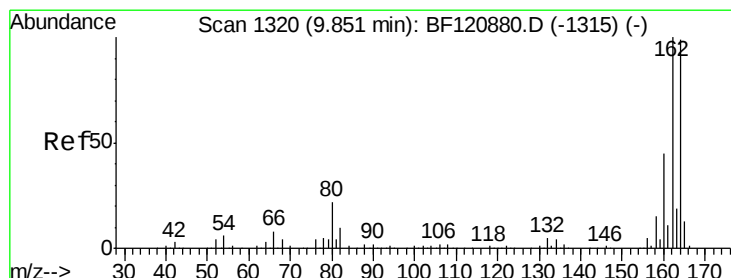
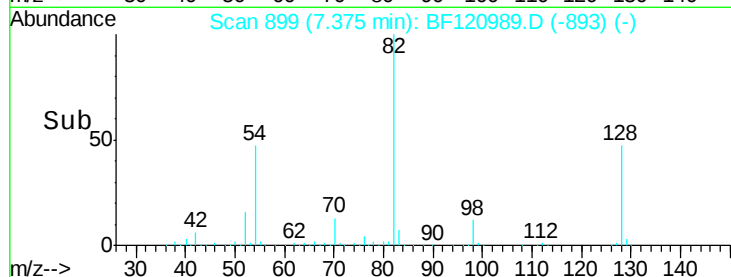
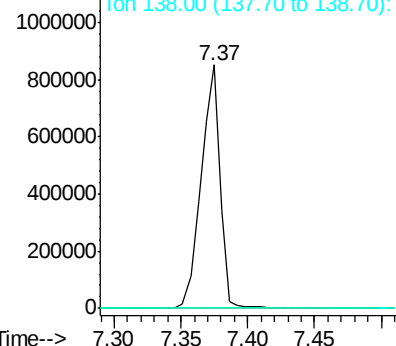
82 100

95 0.0 5.5 8.3#

138 0.0 15.6 23.4#



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: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF120989.D

Acq: 23 Jul 2020 19:23

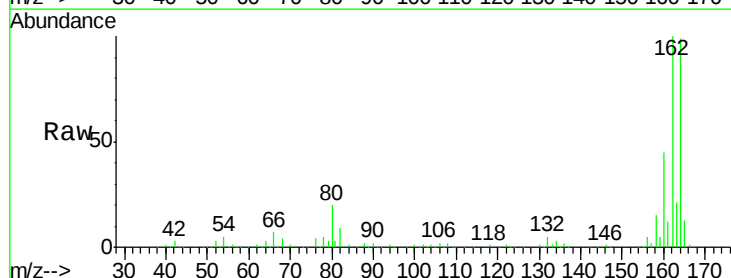
Tgt Ion: 164 Resp: 297413

Ion Ratio Lower Upper

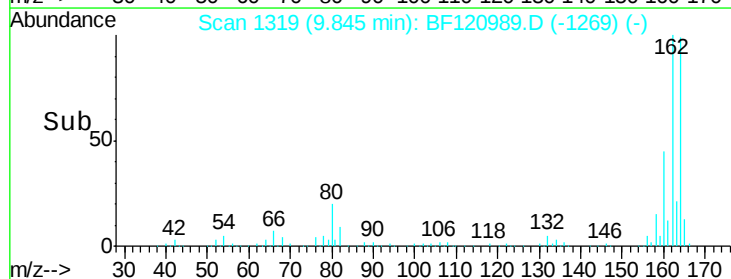
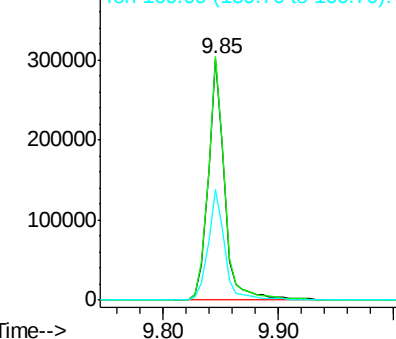
164 100

162 101.0 81.2 121.8

160 45.9 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: 131.404 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.01 min

Lab File: BF120989.D

Acq: 23 Jul 2020 19:23

Instrument :

BNA\_F

ClientSampled :

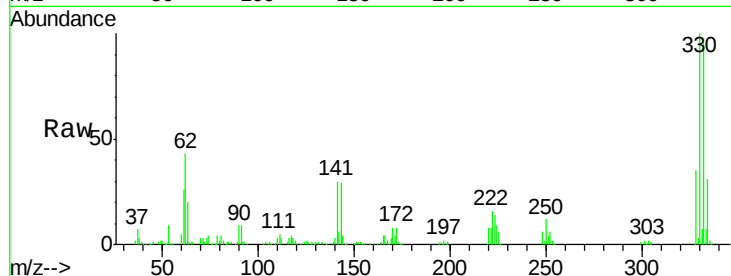
Tot Ion:330 Resp: 427783

Ion Ratio Lower Upper

330 100

332 95.8 75.5 113.3

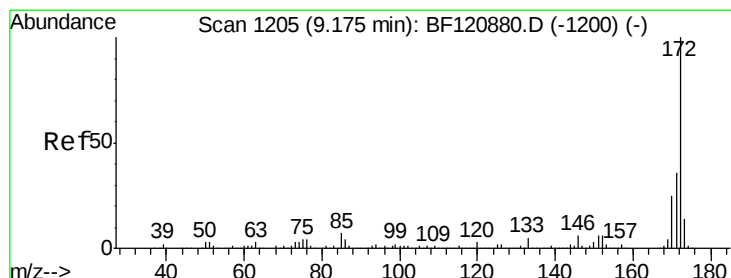
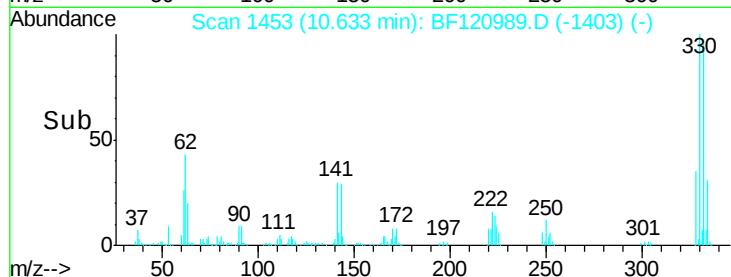
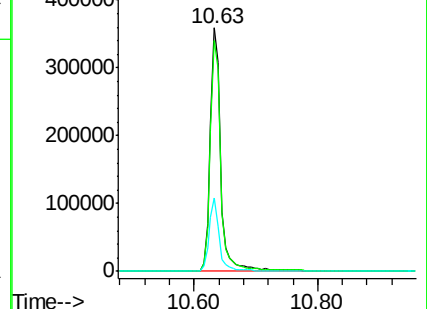
141 29.9 25.7 38.5



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: 82.226 ng

RT: 9.17 min Scan# 1204

Delta R.T. -0.01 min

Lab File: BF120989.D

Acq: 23 Jul 2020 19:23

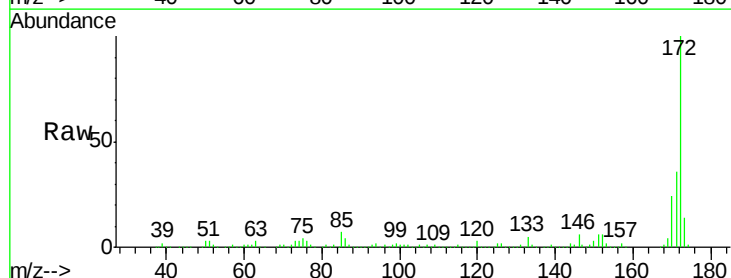
Tgt Ion:172 Resp: 1637932

Ion Ratio Lower Upper

172 100

171 36.1 29.0 43.4

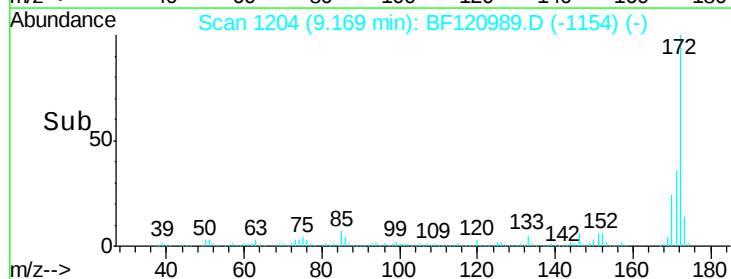
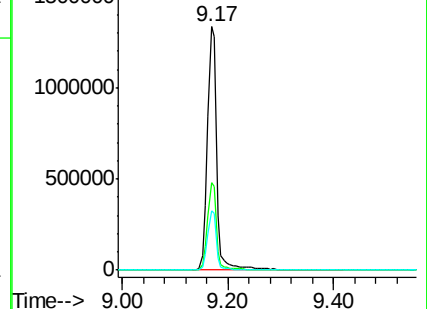
170 24.1 19.6 29.4

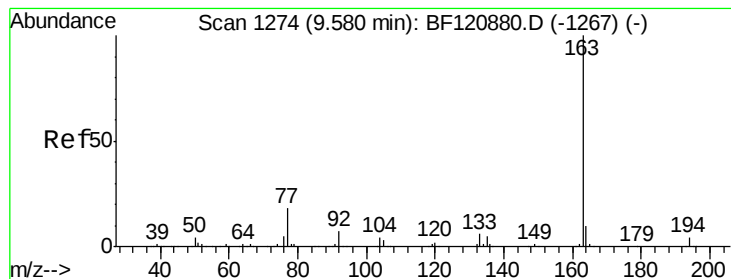


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 2.554 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.26 min

Lab File: BF120989.D

Acq: 23 Jul 2020 19:23

Instrument :

BNA\_F

ClientSampleId :

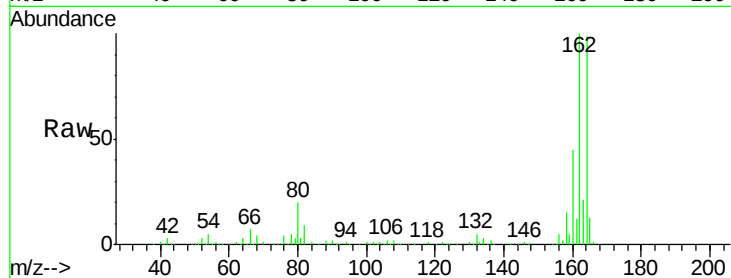
Tot Ion:163 Resp: 54803

Ion Ratio Lower Upper

163 100

194 0.0 3.2 4.8#

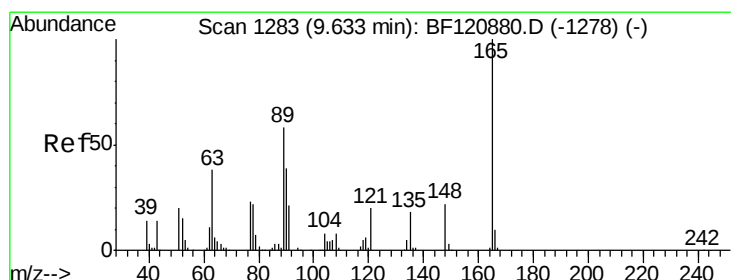
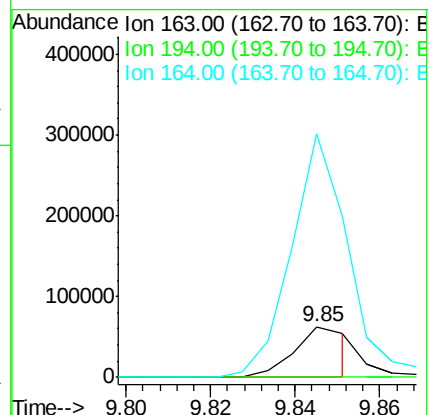
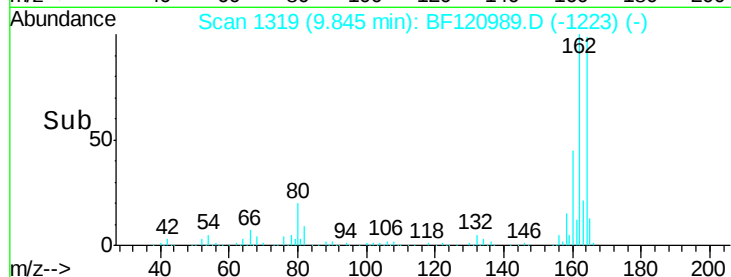
164 481.4 7.9 11.9#



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



#51

2,6-Dinitrotoluene

Concen: 8.153 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.21 min

Lab File: BF120989.D

Acq: 23 Jul 2020 19:23

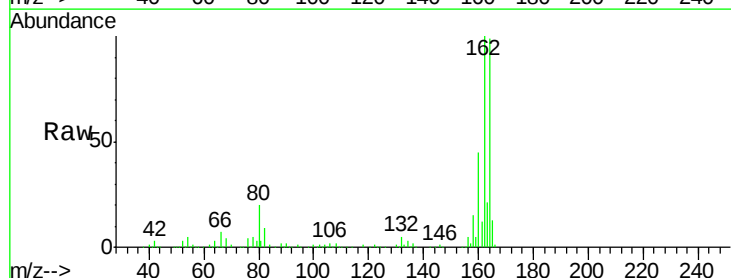
Tgt Ion:165 Resp: 37581

Ion Ratio Lower Upper

165 100

63 1.1 45.4 68.2#

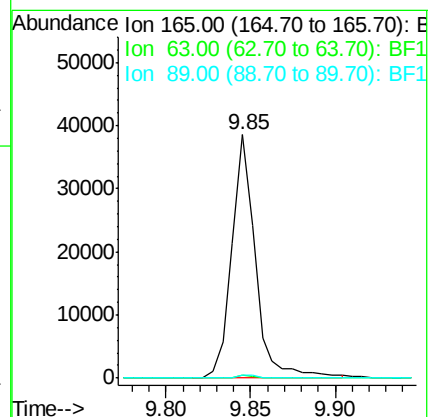
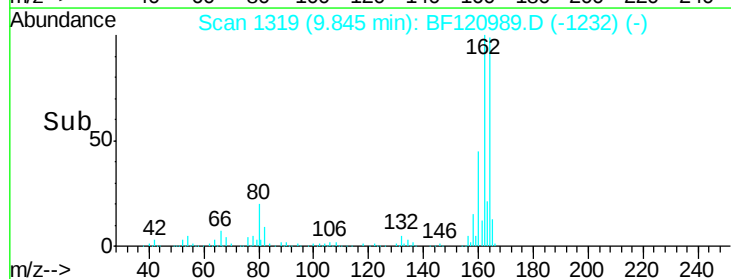
89 1.0 47.0 70.4#

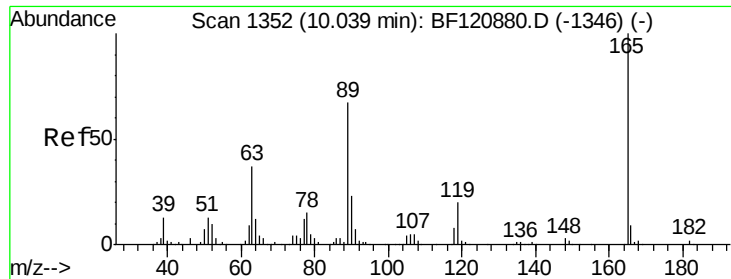


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

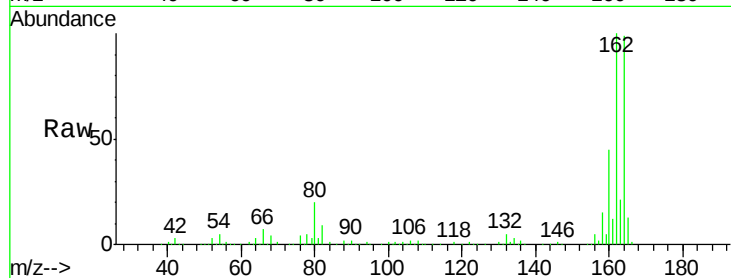




#57  
 2,4-Dinitrotoluene  
 Concen: 6.250 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.19 min  
 Lab File: BF120989.D  
 Acq: 23 Jul 2020 19:23

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 29.4  | 44.2# |
| 89      | 1.0   | 53.4  | 80.0# |
| 182     | 0.0   | 1.8   | 2.6#  |

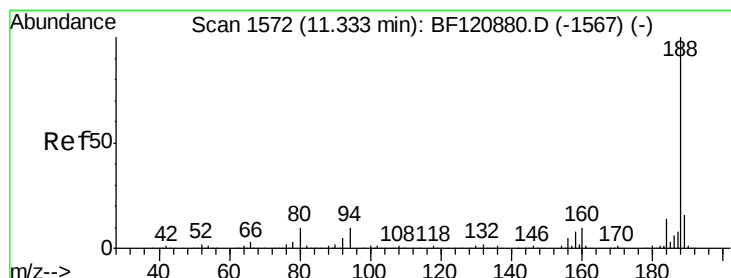
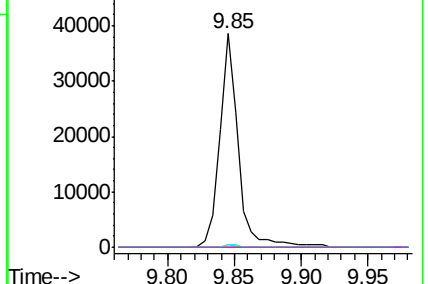
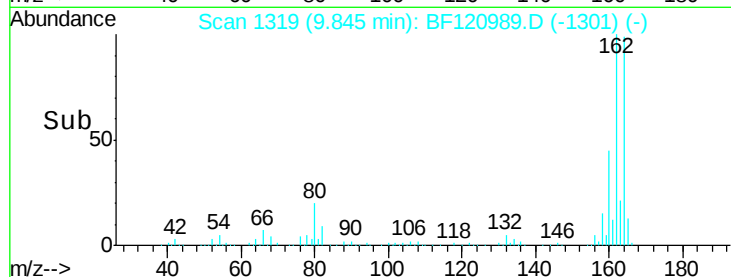


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

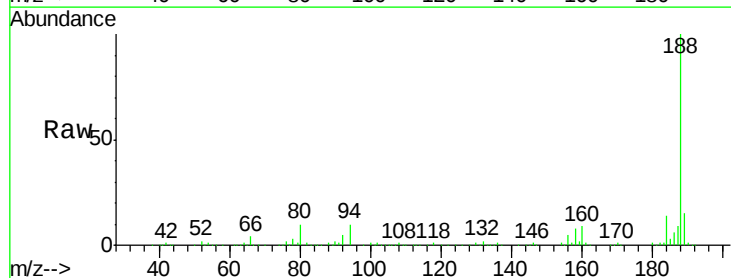
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1571  
 Delta R.T. -0.01 min  
 Lab File: BF120989.D  
 Acq: 23 Jul 2020 19:23

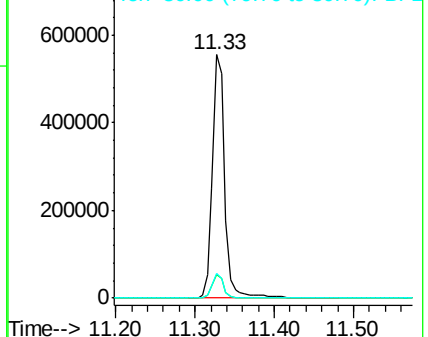
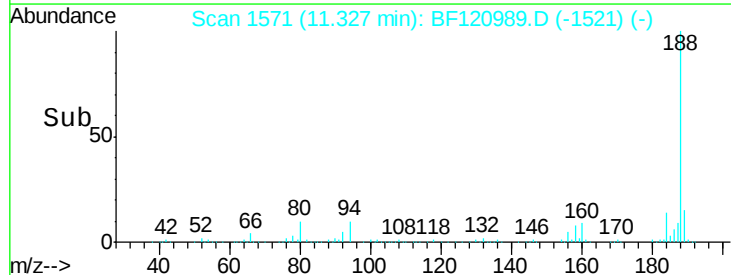
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.8   | 8.0   | 12.0  |
| 80      | 10.3  | 8.3   | 12.5  |

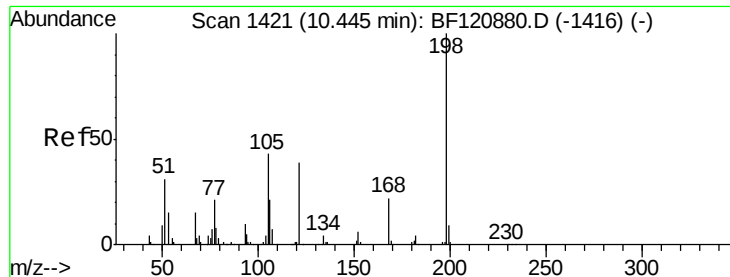


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

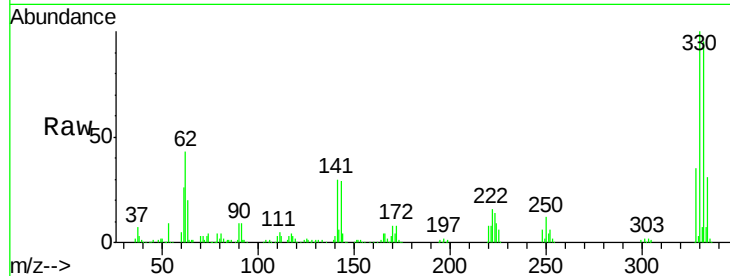




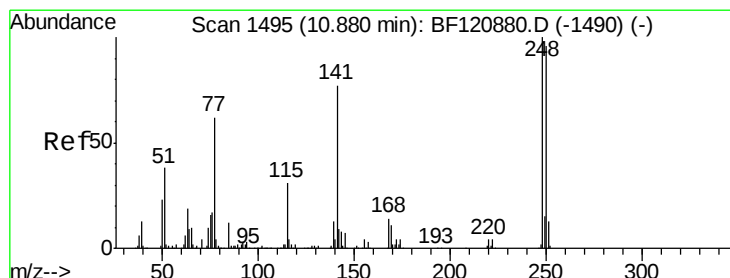
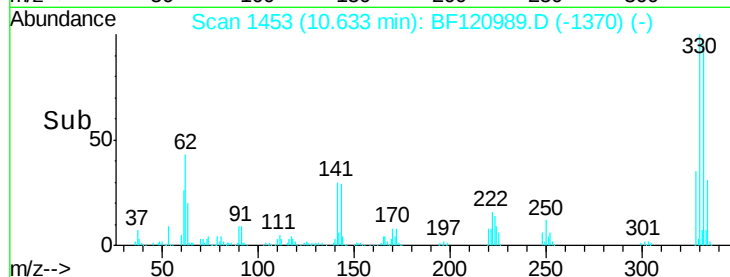
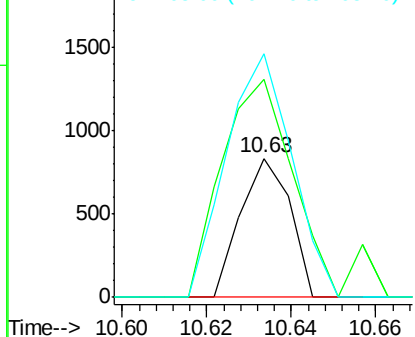
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 4.023 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. 0.19 min  
 Lab File: BF120989.D  
 Acq: 23 Jul 2020 19:23

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:198 Resp: 677  
 Ion Ratio Lower Upper  
 198 100  
 51 156.6 19.5 59.5#  
 105 175.2 24.4 64.4#

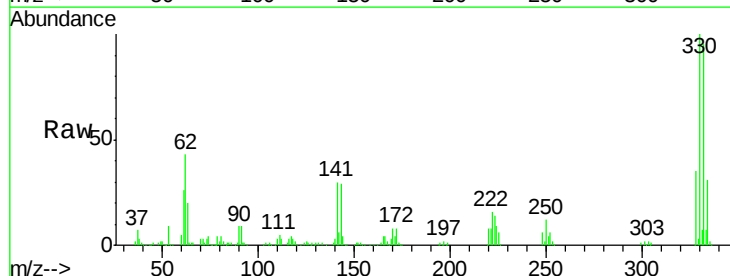


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

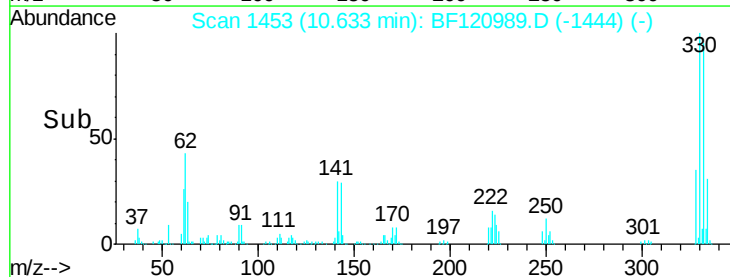
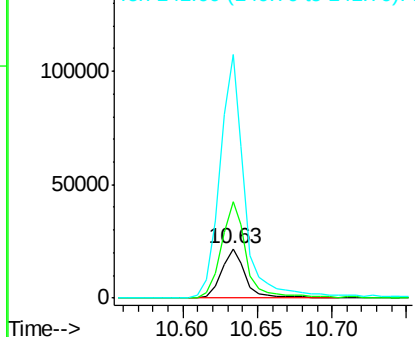


#67  
 4-Bromophenyl-phenylether  
 Concen: 3.685 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. -0.25 min  
 Lab File: BF120989.D  
 Acq: 23 Jul 2020 19:23

Tgt Ion:248 Resp: 24508  
 Ion Ratio Lower Upper  
 248 100  
 250 196.3 77.1 115.7#  
 141 493.0 61.2 91.8#



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

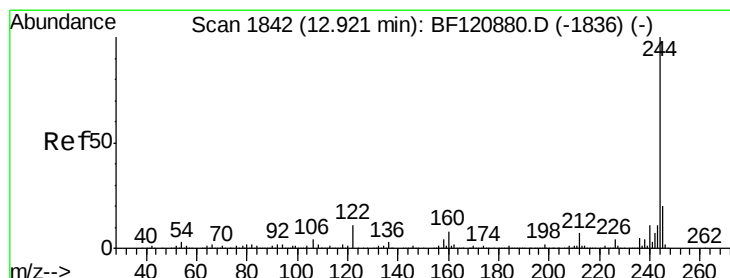
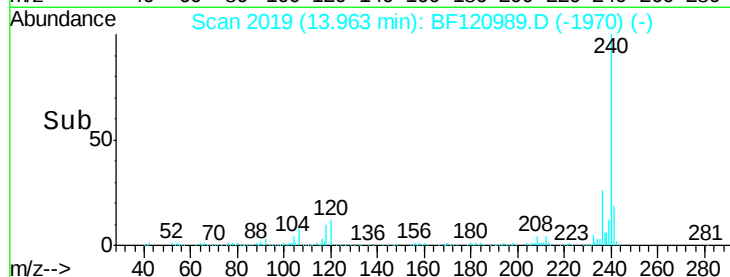
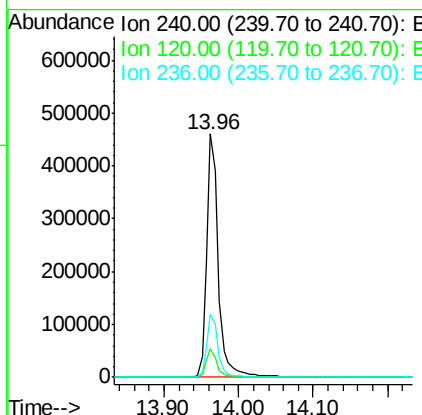
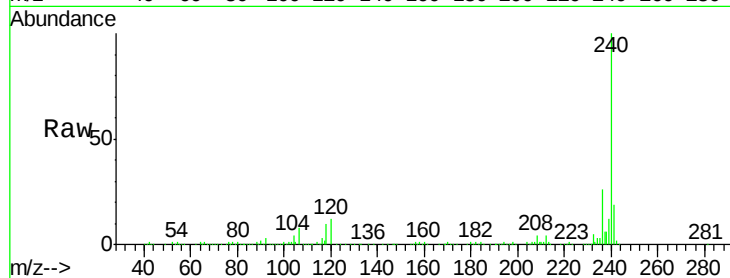




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. -0.01 min  
Lab File: BF120989.D  
Acq: 23 Jul 2020 19:23

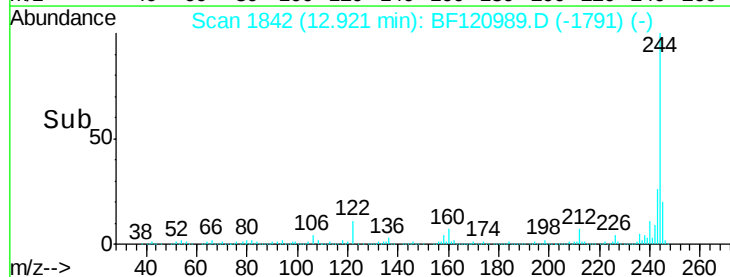
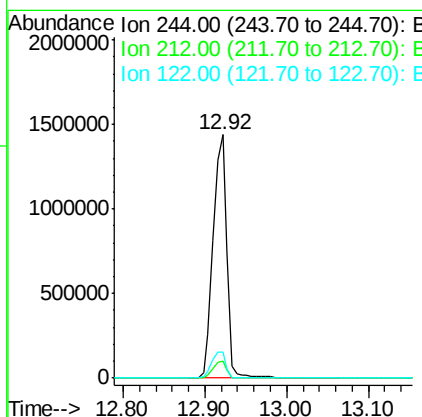
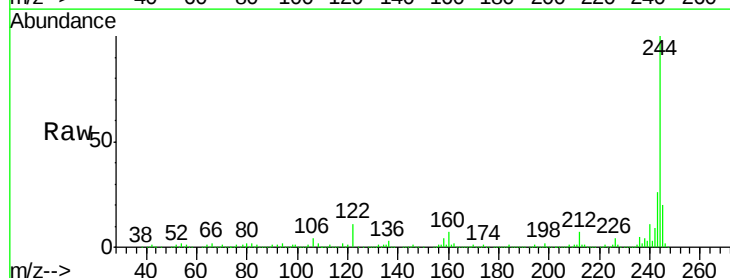
Instrument :  
BNA\_F  
ClientSampleId :

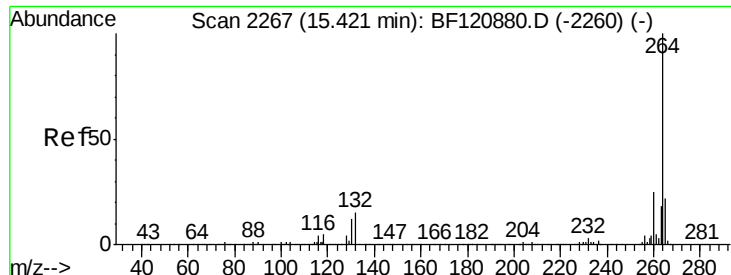
Tot Ion:240 Resp: 501380  
Ion Ratio Lower Upper  
240 100  
120 11.6 9.0 13.4  
236 26.0 21.7 32.5



#79  
Terphenyl-d14  
Concen: 73.554 ng  
RT: 12.92 min Scan# 1842  
Delta R.T. 0.00 min  
Lab File: BF120989.D  
Acq: 23 Jul 2020 19:23

Tgt Ion:244 Resp: 1696515  
Ion Ratio Lower Upper  
244 100  
212 7.1 5.6 8.4  
122 10.7 8.9 13.3

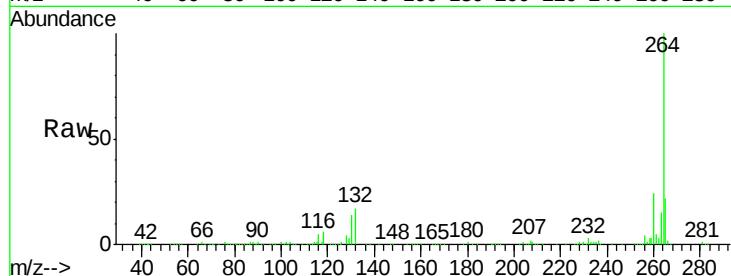




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.41 min Scan# 2265  
 Delta R.T. -0.01 min  
 Lab File: BF120989.D  
 Acq: 23 Jul 2020 19:23

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 20.0  | 30.0  |
| 265     | 22.0  | 17.4  | 26.2  |



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

