

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122819\  
 Data File : BF118369.D  
 Acq On : 28 Dec 2019 17:05  
 Operator : JU  
 Sample : K6434-05  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 29 07:02:48 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 24 15:58:52 2019  
 Response via : Initial Calibration

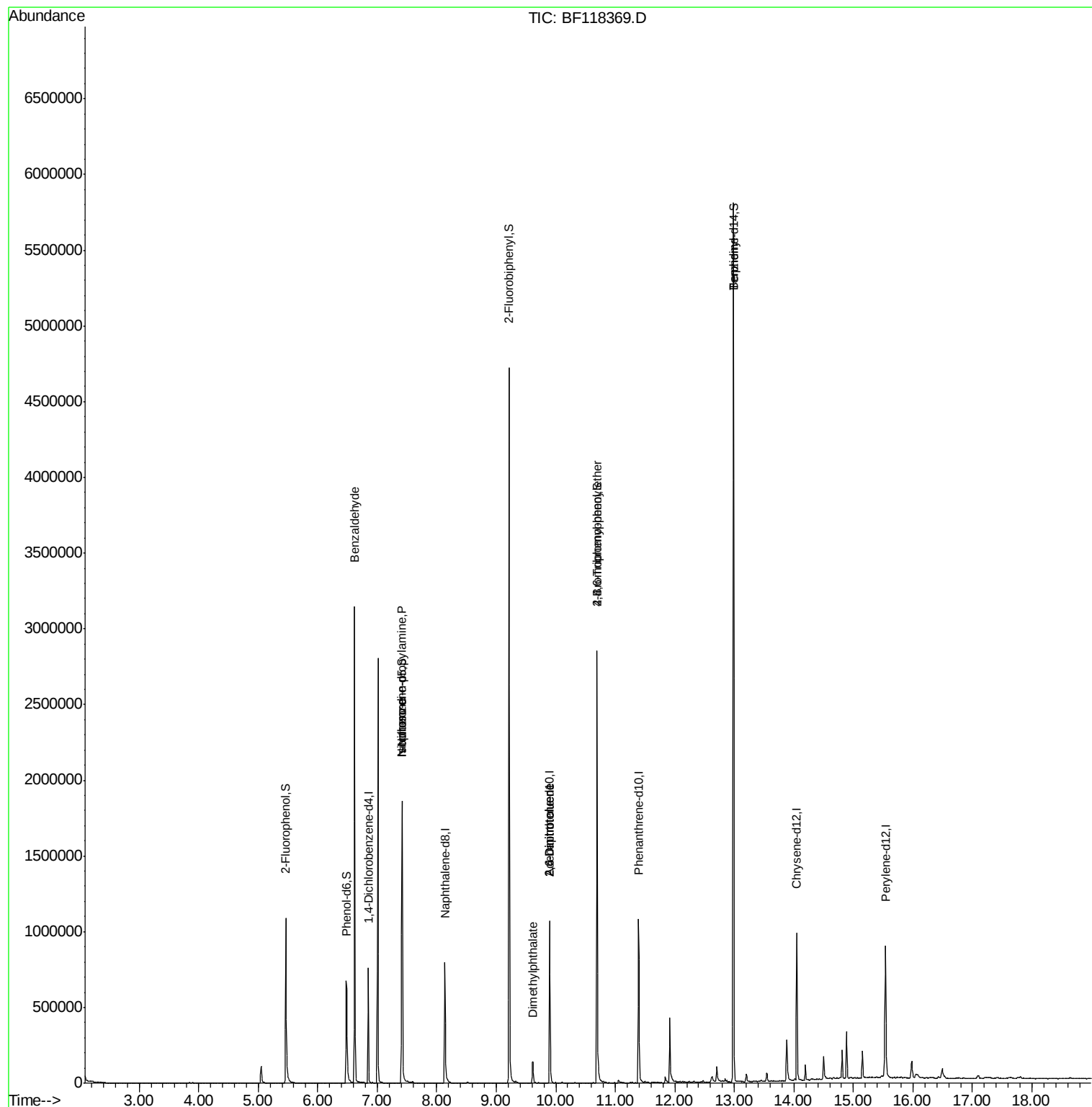
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 110408   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.14  | 136  | 428708   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.90  | 164  | 224824   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.39 | 188  | 441594   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.04 | 240  | 364125   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.54 | 264  | 368885   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 392803   | 60.73  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.48  | 99   | 303638   | 37.84  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.42  | 82   | 704329   | 93.97  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 423621   | 152.58 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.22  | 172  | 1398930  | 94.98  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.99 | 244  | 1948290  | 88.77  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.62  | 77   | 18784    | 3.993  | ng    | # 72     |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 96151    | 19.452 | ng    | # 76     |
| 25) Isophorone                 | 7.42  | 82   | 704325   | 53.917 | ng    | # 62     |
| 50) Dimethylphthalate          | 9.62  | 163  | 77826    | 4.612  | ng    | # 98     |
| 51) 2,6-Dinitrotoluene         | 9.90  | 165  | 28671    | 7.880  | ng    | # 24     |
| 57) 2,4-Dinitrotoluene         | 9.90  | 165  | 28671    | 5.897  | ng    | # 28     |
| 67) 4-Bromophenyl-phenylether  | 10.70 | 248  | 25884    | 5.009  | ng    | # 1      |
| 77) Benzydine                  | 12.99 | 184  | 26300    | 2.636  | ng    | # 93     |

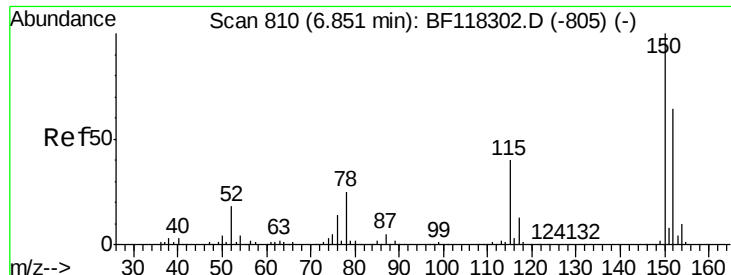
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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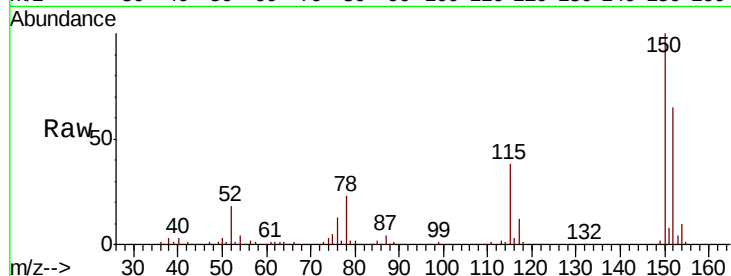




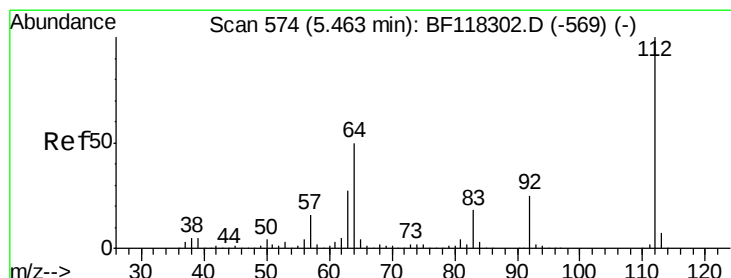
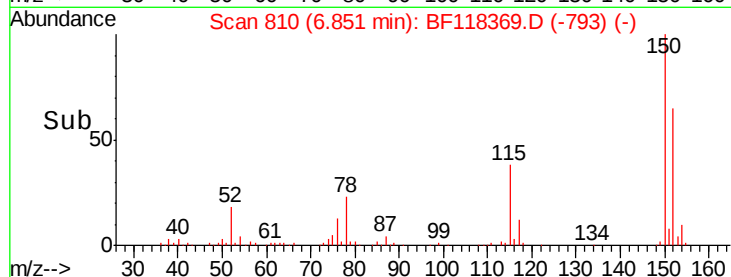
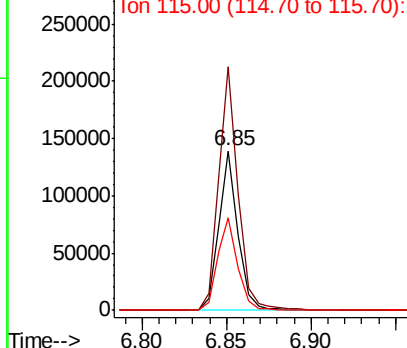
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.85 min Scan# 810  
 Delta R.T. -0.00 min  
 Lab File: BF118369.D  
 Acq: 28 Dec 2019 17:05

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 110408  
 Ion Ratio Lower Upper  
 152 100  
 150 152.9 125.4 188.2  
 115 58.2 50.2 75.4

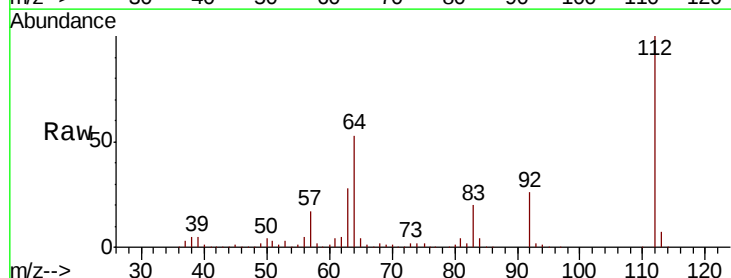


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

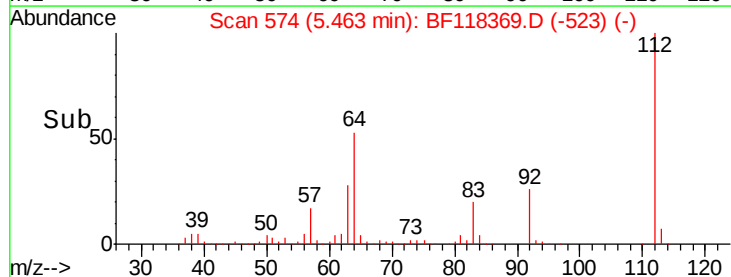
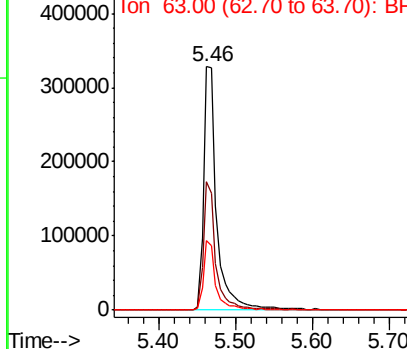


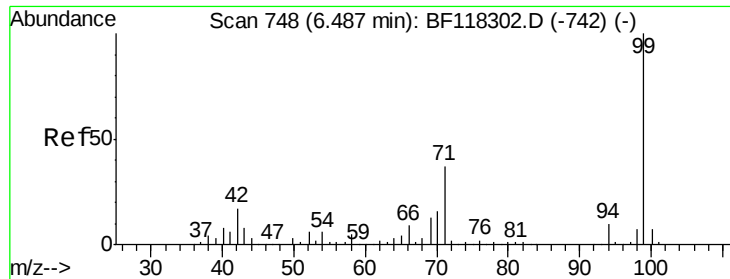
#5  
 2-Fluorophenol  
 Concen: 60.730 ng  
 RT: 5.46 min Scan# 574  
 Delta R.T. -0.00 min  
 Lab File: BF118369.D  
 Acq: 28 Dec 2019 17:05

Tgt Ion:112 Resp: 392803  
 Ion Ratio Lower Upper  
 112 100  
 64 52.9 39.7 59.5  
 63 28.3 21.7 32.5



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: 37.843 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF118369.D

Acq: 28 Dec 2019 17:05

Instrument :

BNA\_F

ClientSampleId :

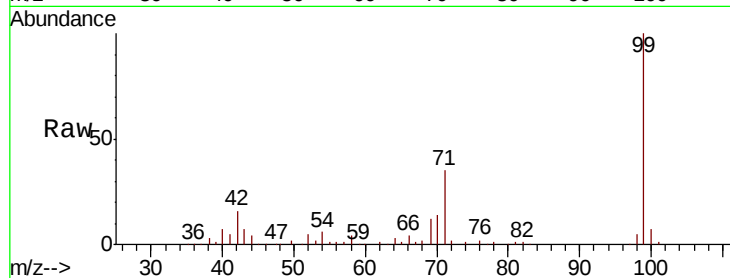
Tot Ion: 99 Resp: 303638

Ion Ratio Lower Upper

99 100

42 16.3 13.5 20.3

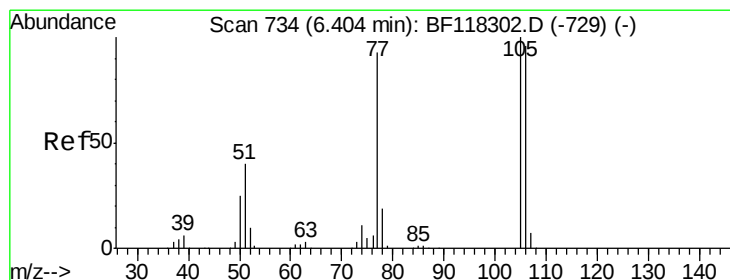
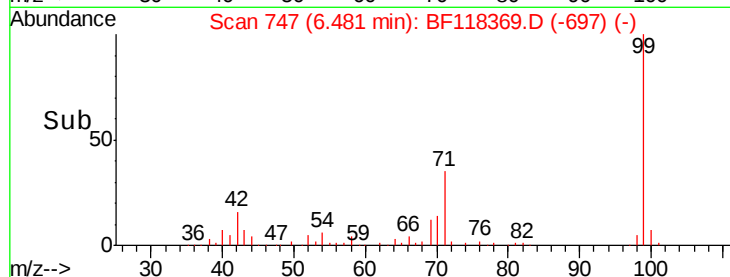
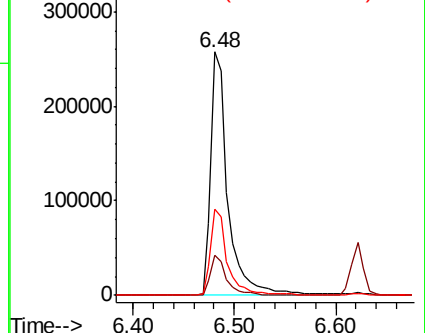
71 35.2 29.4 44.2



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#9

Benzaldehyde

Concen: 3.993 ng

RT: 6.62 min Scan# 771

Delta R.T. 0.22 min

Lab File: BF118369.D

Acq: 28 Dec 2019 17:05

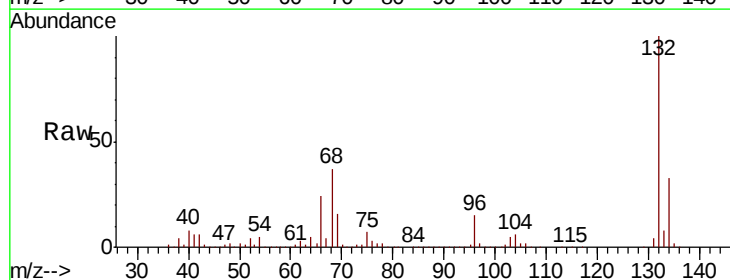
Tgt Ion: 77 Resp: 18784

Ion Ratio Lower Upper

77 100

105 77.9 87.5 127.5#

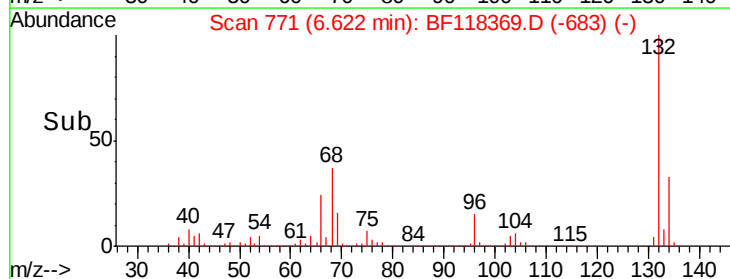
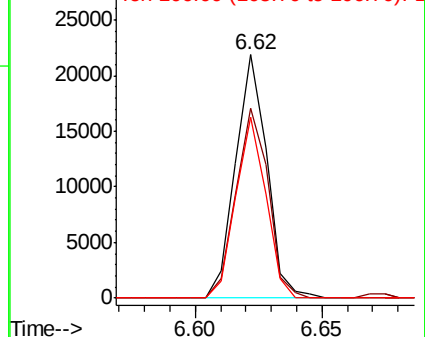
106 74.4 83.6 123.6#

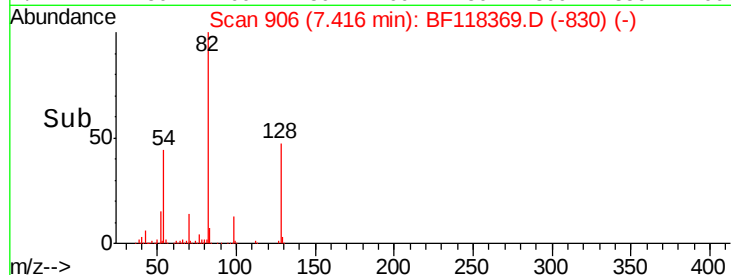
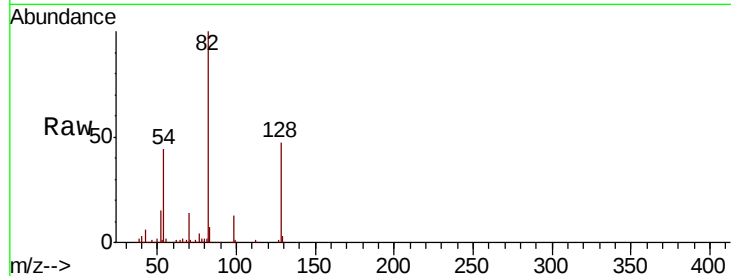


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

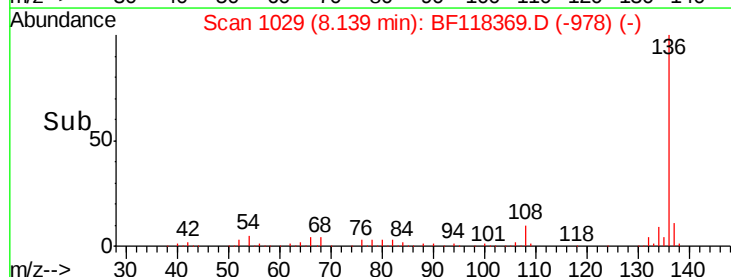
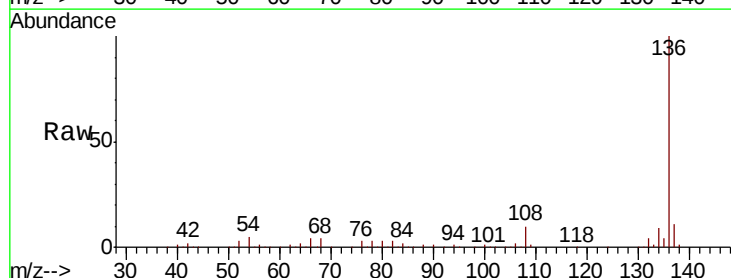
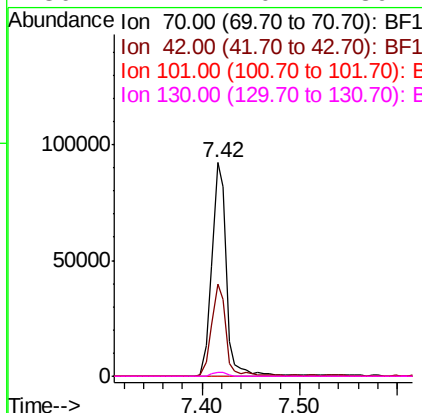




#19  
n-Nitroso-di-n-propylamine  
Concen: 19.452 ng  
RT: 7.42 min Scan# 906  
Delta R.T. 0.15 min  
Lab File: BF118369.D  
Acq: 28 Dec 2019 17:05

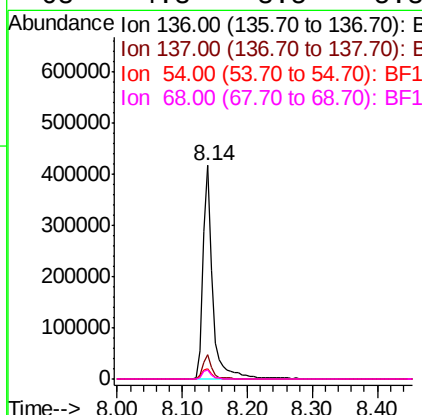
Instrument :  
BNA\_F  
ClientSampleId :

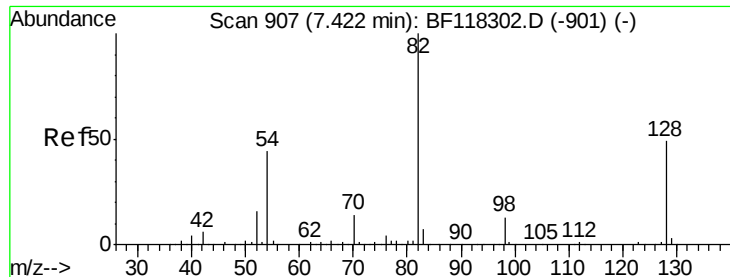
Tot Ion: 70 Resp: 96151  
Ion Ratio Lower Upper  
70 100  
42 43.1 41.1 61.7  
101 0.0 8.3 12.5#  
130 1.7 20.1 30.1#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.14 min Scan# 1029  
Delta R.T. -0.00 min  
Lab File: BF118369.D  
Acq: 28 Dec 2019 17:05

Tgt Ion: 136 Resp: 428708  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.9 13.3  
54 4.9 4.2 6.4  
68 4.3 3.5 5.3

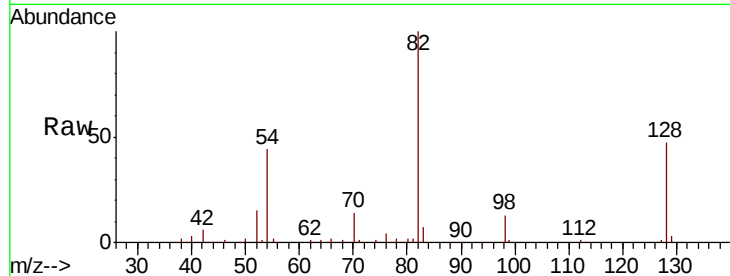




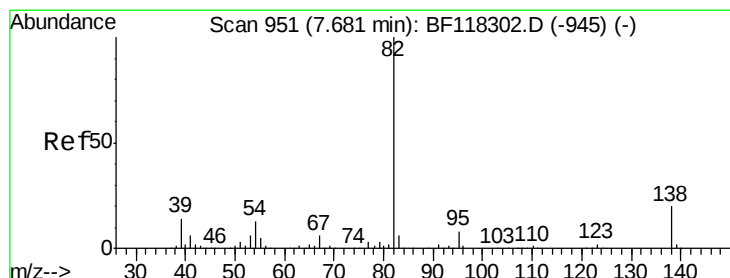
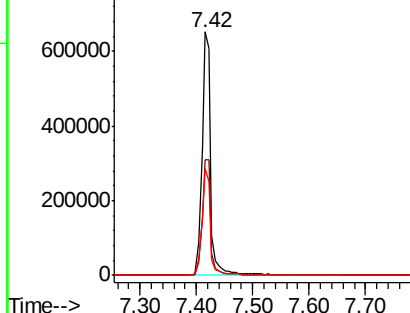
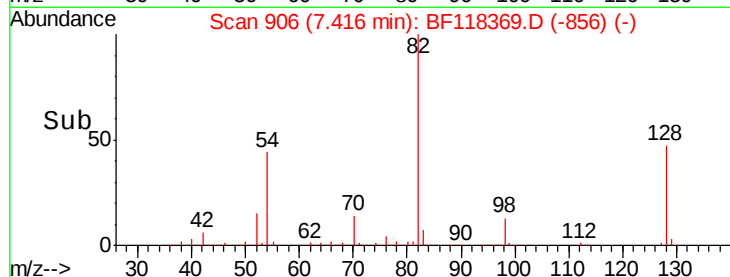
#23  
Nitrobenzene-d5  
Concen: 93.966 ng  
RT: 7.42 min Scan# 906  
Delta R.T. -0.01 min  
Lab File: BF118369.D  
Acq: 28 Dec 2019 17:05

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 82 Resp: 704329  
Ion Ratio Lower Upper  
82 100  
128 47.3 39.6 59.4  
54 43.8 34.9 52.3

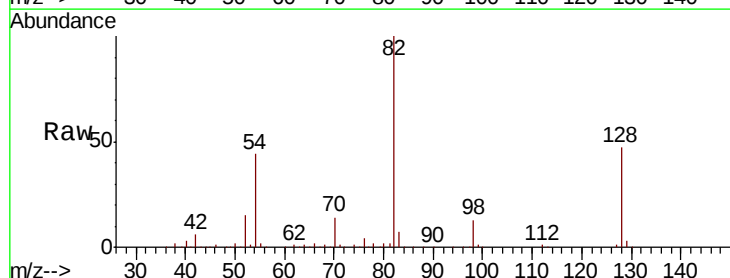


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

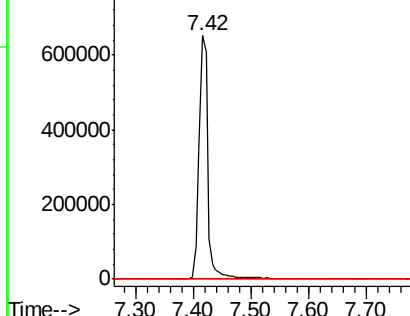
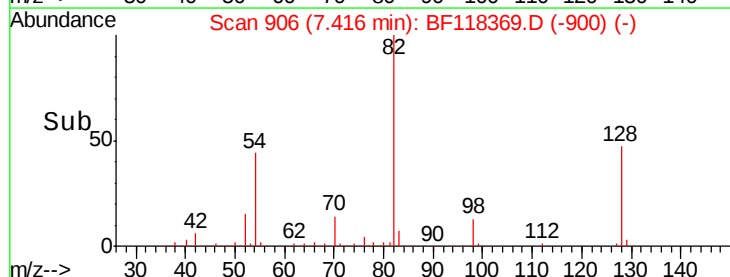


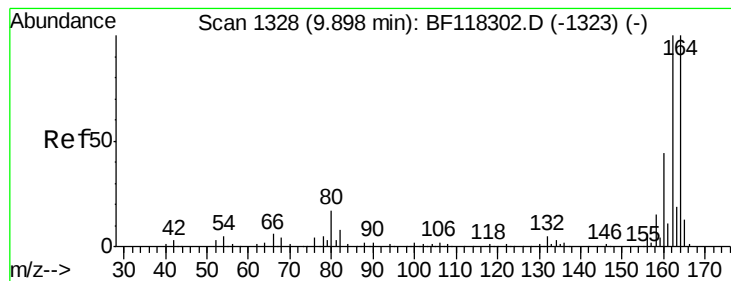
#25  
Isophorone  
Concen: 53.917 ng  
RT: 7.42 min Scan# 906  
Delta R.T. -0.26 min  
Lab File: BF118369.D  
Acq: 28 Dec 2019 17:05

Tgt Ion: 82 Resp: 704325  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.3 9.5#  
138 0.0 16.2 24.2#



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: 9.90 min Scan# 1328

Delta R.T. -0.00 min

Lab File: BF118369.D

Acq: 28 Dec 2019 17:05

Instrument :

BNA\_F

ClientSampleId :

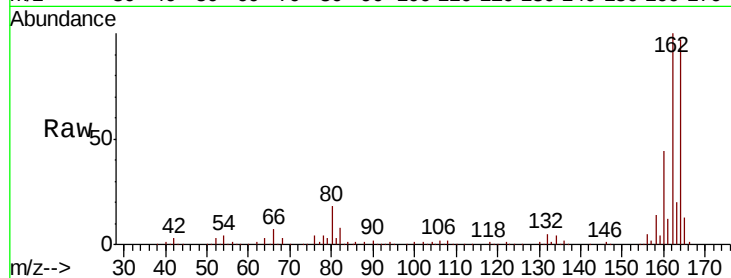
Tot Ion:164 Resp: 224824

Ion Ratio Lower Upper

164 100

162 103.3 80.0 120.0

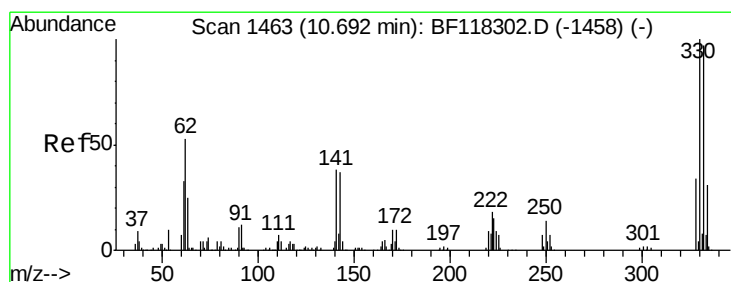
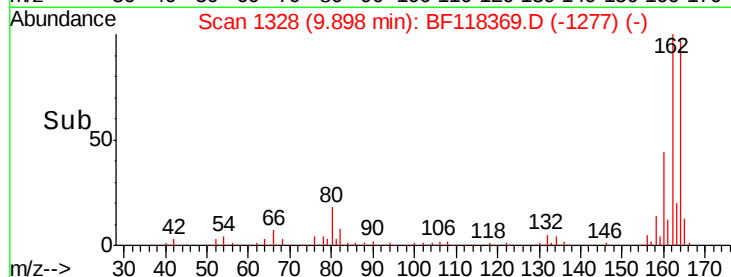
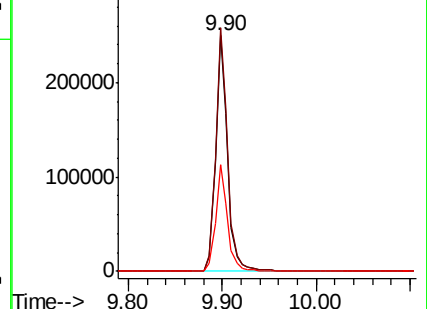
160 45.0 34.8 52.2



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



#42

2,4,6-Tribromophenol

Concen: 152.579 ng

RT: 10.70 min Scan# 1464

Delta R.T. 0.01 min

Lab File: BF118369.D

Acq: 28 Dec 2019 17:05

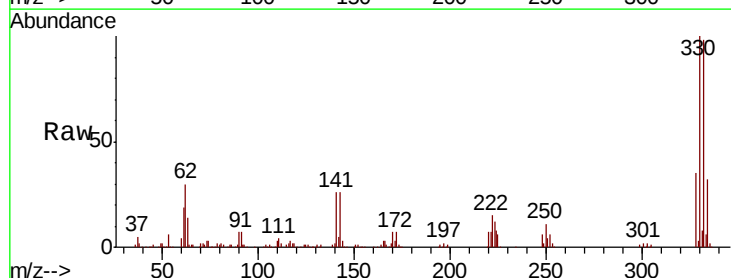
Tgt Ion:330 Resp: 423621

Ion Ratio Lower Upper

330 100

332 97.0 76.6 114.8

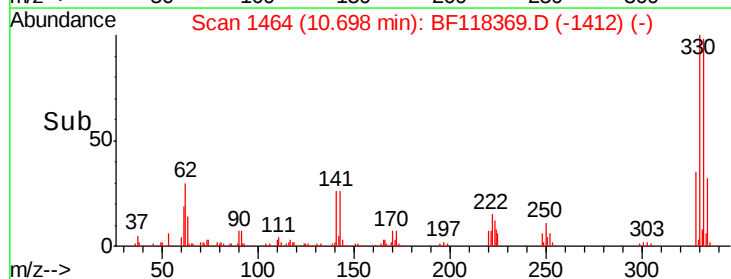
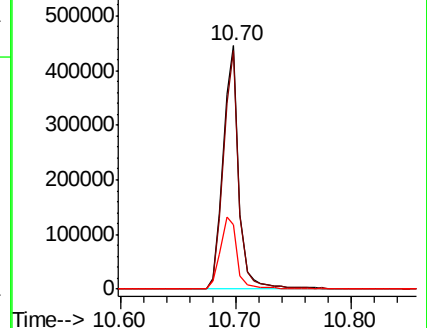
141 31.7 26.0 39.0

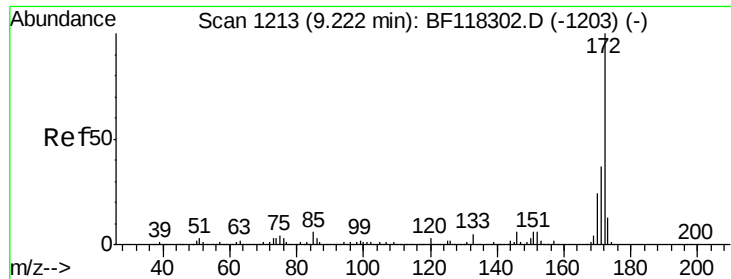


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

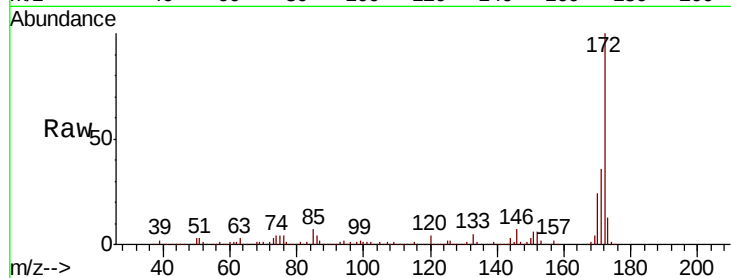




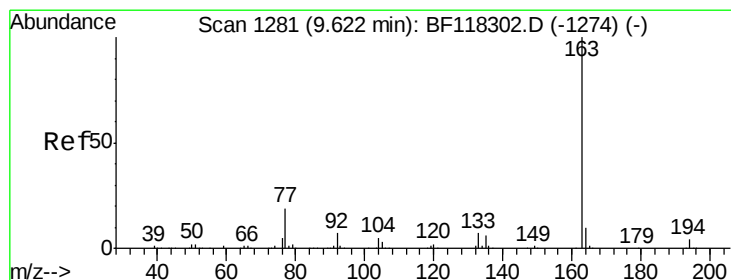
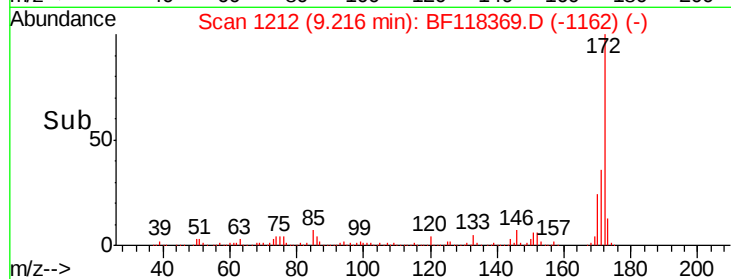
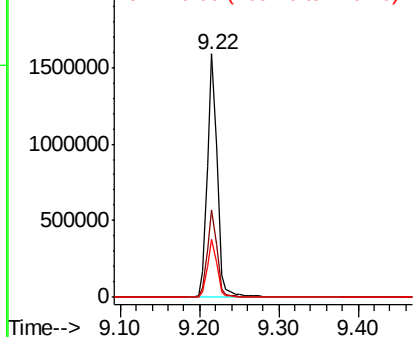
#45  
2-Fluorobiphenyl  
Concen: 94.982 ng  
RT: 9.22 min Scan# 1212  
Delta R.T. -0.01 min  
Lab File: BF118369.D  
Acq: 28 Dec 2019 17:05

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1398930  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.3 43.9  
170 24.0 19.2 28.8

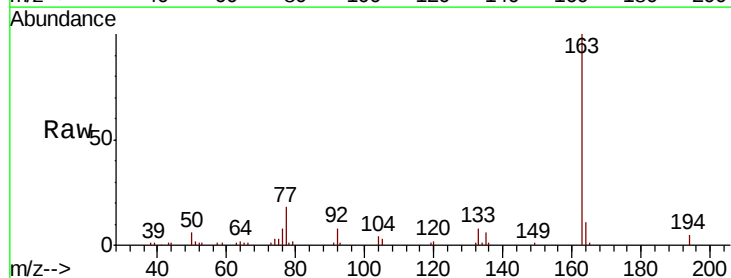


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

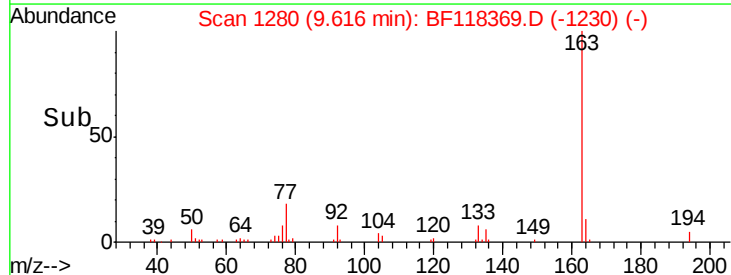
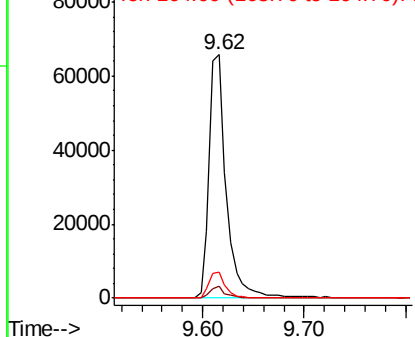


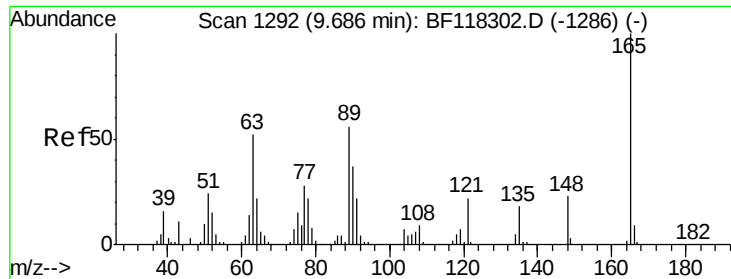
#50  
Dimethylphthalate  
Concen: 4.612 ng  
RT: 9.62 min Scan# 1280  
Delta R.T. -0.01 min  
Lab File: BF118369.D  
Acq: 28 Dec 2019 17:05

Tgt Ion:163 Resp: 77826  
Ion Ratio Lower Upper  
163 100  
194 4.8 3.2 4.8  
164 10.6 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: 7.880 ng

RT: 9.90 min Scan# 1328

Delta R.T. 0.21 min

Lab File: BF118369.D

Acq: 28 Dec 2019 17:05

Instrument :

BNA\_F

ClientSampleId :

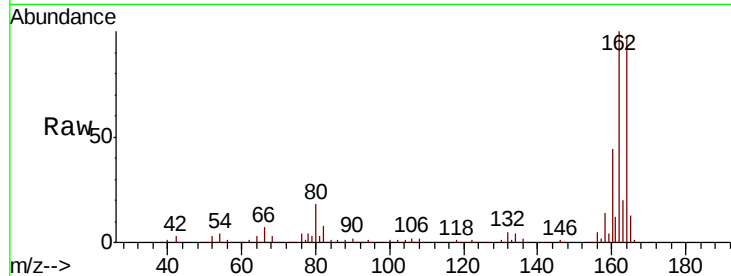
Tot Ion:165 Resp: 28671

Ion Ratio Lower Upper

165 100

63 0.0 42.2 63.4#

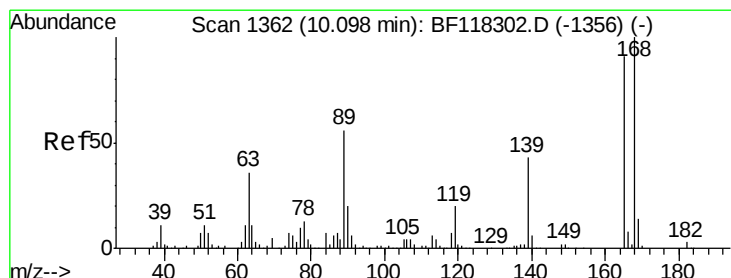
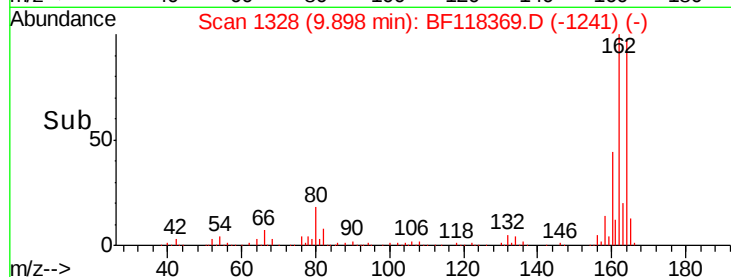
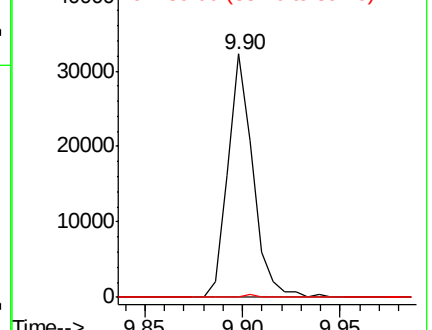
89 0.0 44.4 66.6#



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



#57

2,4-Dinitrotoluene

Concen: 5.897 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.20 min

Lab File: BF118369.D

Acq: 28 Dec 2019 17:05

Tgt Ion:165 Resp: 28671

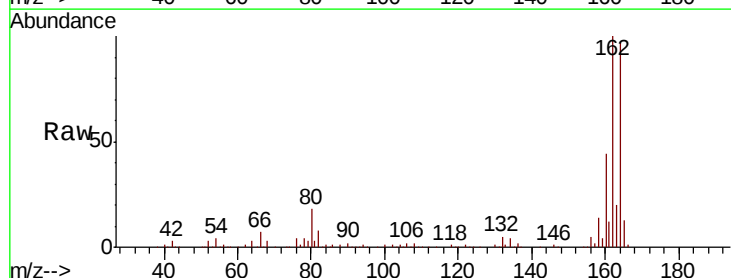
Ion Ratio Lower Upper

165 100

63 0.0 32.0 48.0#

89 0.0 49.3 73.9#

182 0.0 2.4 3.6#

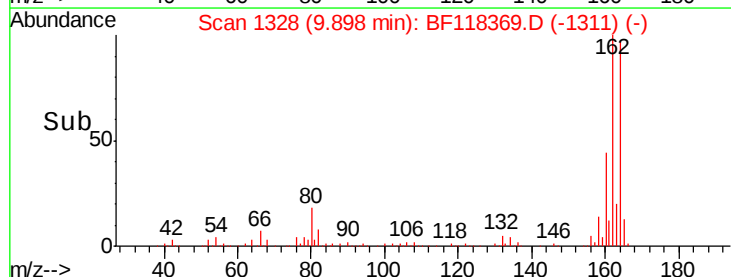
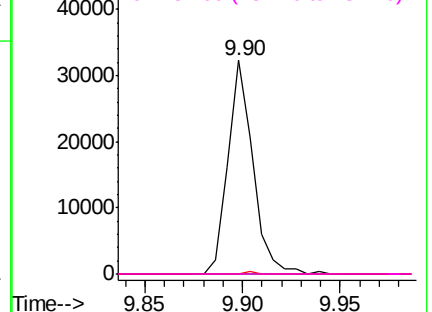


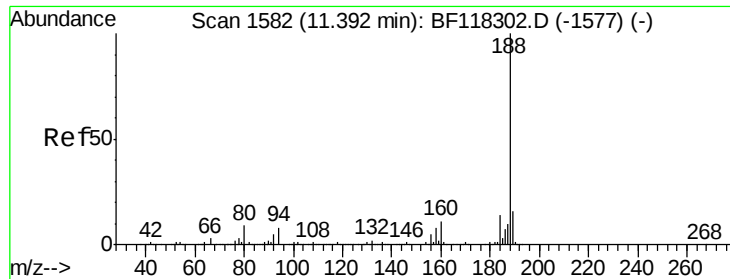
Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.39 min Scan# 1582

Delta R.T. -0.00 min

Lab File: BF118369.D

Acq: 28 Dec 2019 17:05

Instrument :

BNA\_F

ClientSampleId :

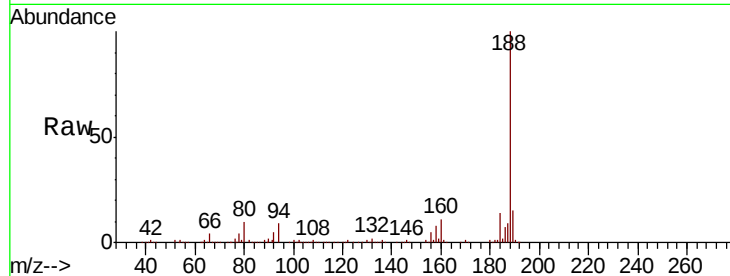
Tot Ion:188 Resp: 441594

Ion Ratio Lower Upper

188 100

94 8.6 6.7 10.1

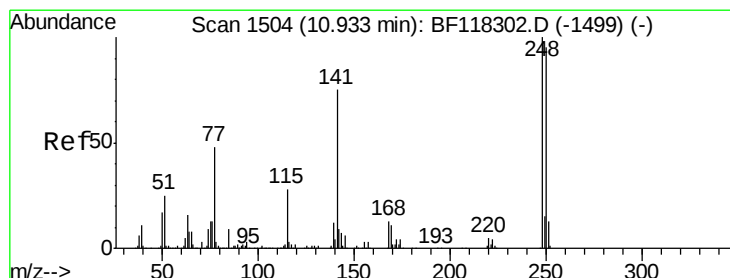
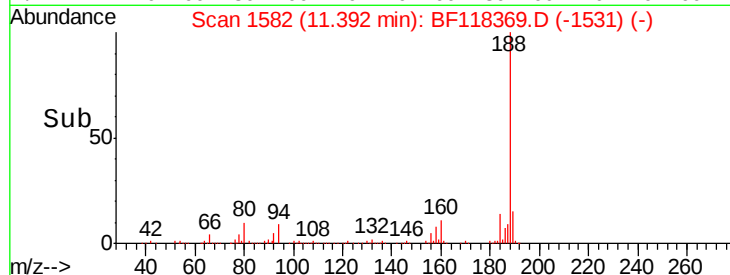
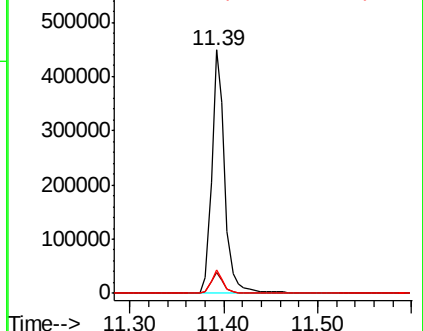
80 9.5 7.2 10.8



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: 5.009 ng

RT: 10.70 min Scan# 1464

Delta R.T. -0.24 min

Lab File: BF118369.D

Acq: 28 Dec 2019 17:05

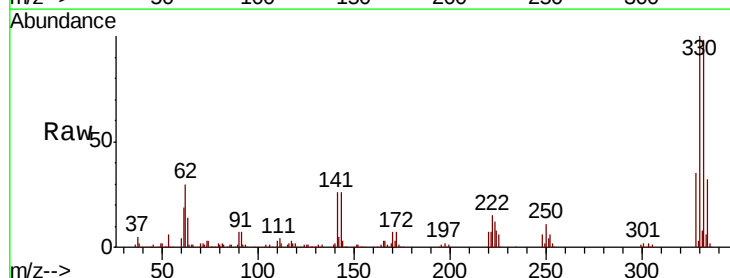
Tgt Ion:248 Resp: 25884

Ion Ratio Lower Upper

248 100

250 199.1 76.4 114.6#

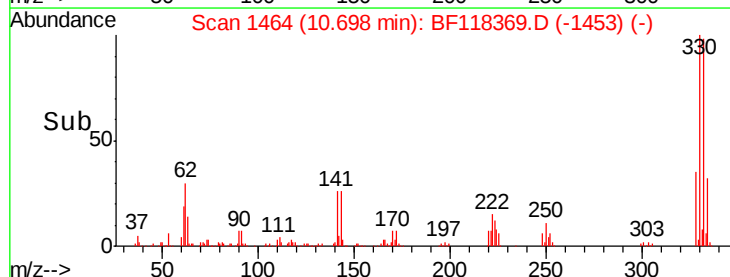
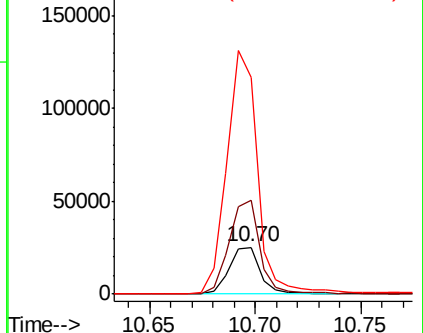
141 462.1 60.2 90.2#

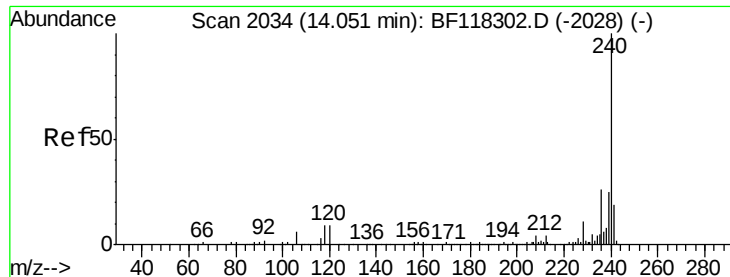


Abundance Ion 248.00 (247.70 to 248.70): E

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: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF118369.D

Acq: 28 Dec 2019 17:05

Instrument :

BNA\_F

ClientSampleId :

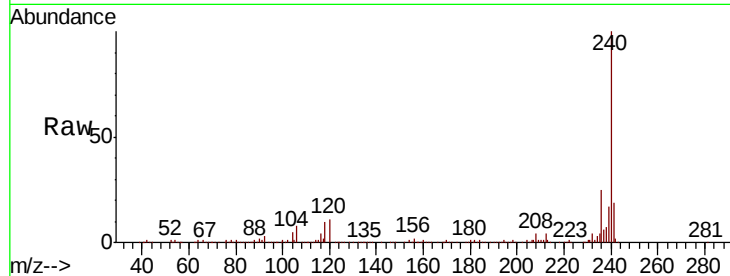
Tot Ion:240 Resp: 364125

Ion Ratio Lower Upper

240 100

120 11.2 7.1 10.7#

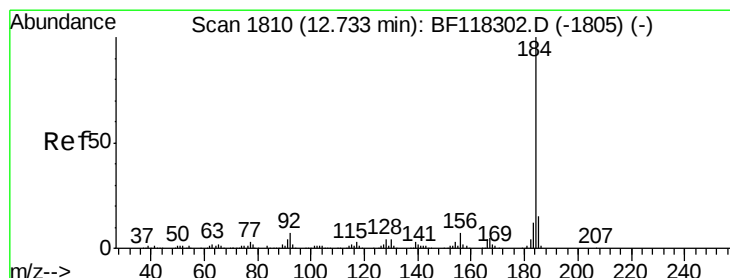
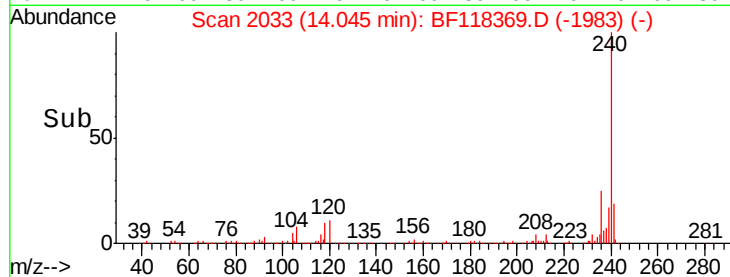
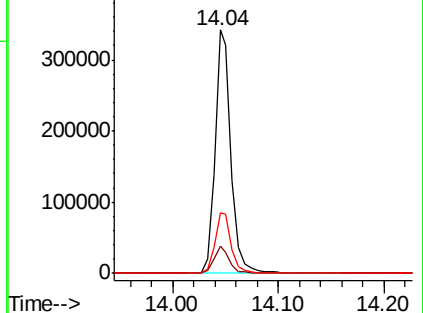
236 24.8 21.0 31.6



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



#77

Benzidine

Concen: 2.636 ng

RT: 12.99 min Scan# 1853

Delta R.T. 0.25 min

Lab File: BF118369.D

Acq: 28 Dec 2019 17:05

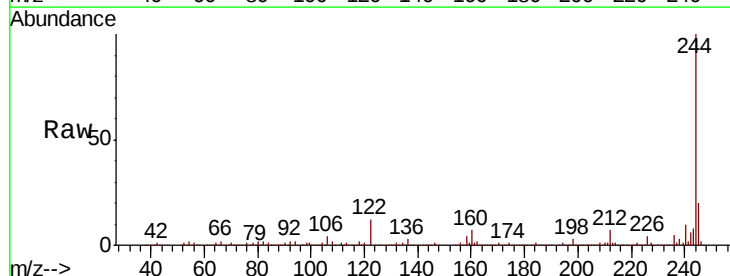
Tgt Ion:184 Resp: 26300

Ion Ratio Lower Upper

184 100

185 16.2 12.3 18.5

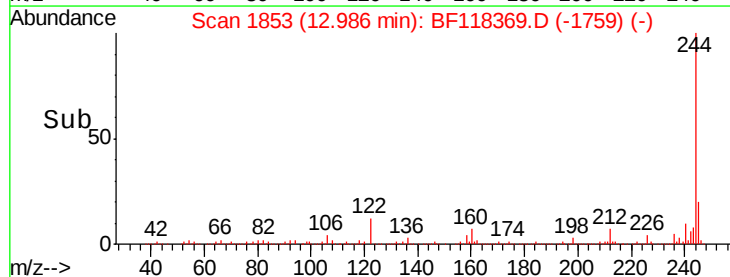
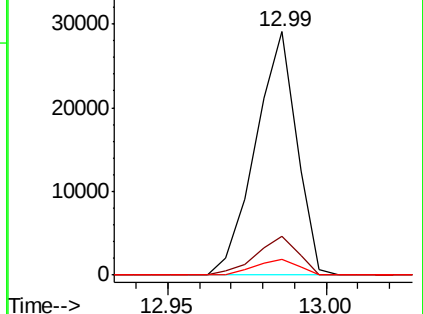
183 6.6 9.4 14.2#

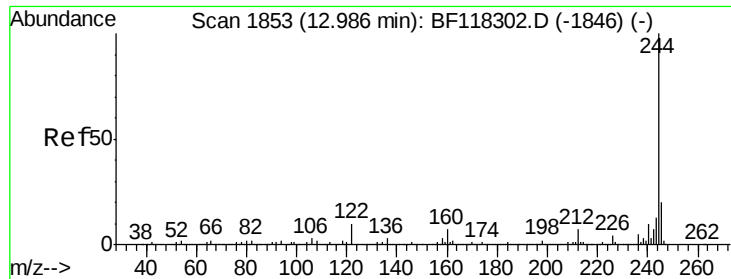


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

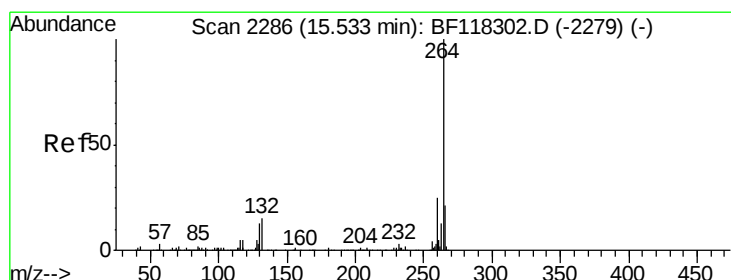
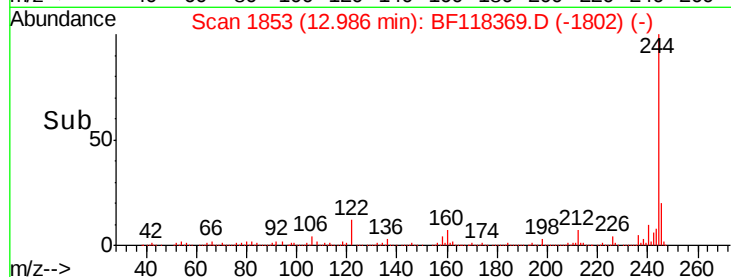
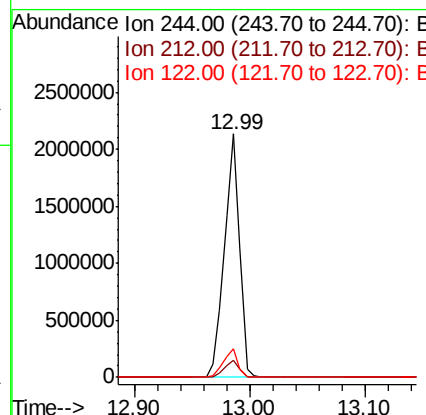
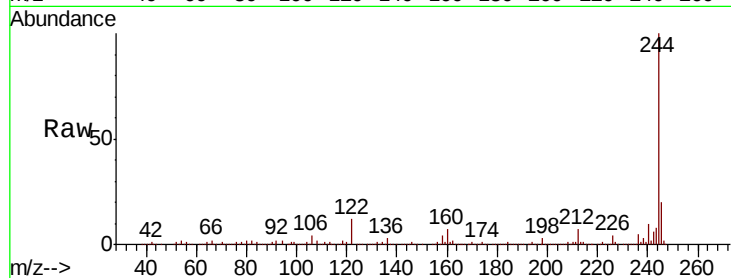




#79  
 Terphenyl-d14  
 Concen: 88.768 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. -0.00 min  
 Lab File: BF118369.D  
 Acq: 28 Dec 2019 17:05

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 1948290  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.4 8.2  
 122 11.8 7.8 11.8#



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.54 min Scan# 2287  
 Delta R.T. 0.01 min  
 Lab File: BF118369.D  
 Acq: 28 Dec 2019 17:05

Tgt Ion:264 Resp: 368885  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 19.8 29.6  
 265 22.0 17.0 25.4

