

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122819\  
 Data File : BF118366.D  
 Acq On : 28 Dec 2019 15:40  
 Operator : JU  
 Sample : K6434-03  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 29 07:02:18 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

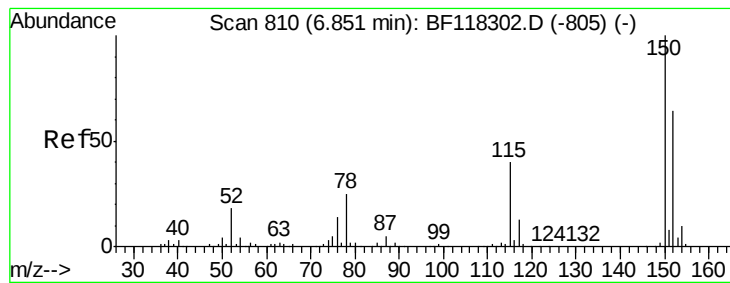
| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 111928   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.14  | 136  | 416538   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.90  | 164  | 227026   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.39 | 188  | 434107   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.04 | 240  | 350056   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.54 | 264  | 348894   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.47  | 112  | 252892   | 38.57  | ng    | 0.00     |
| 7) Phenol-d6                | 6.49  | 99   | 194348   | 23.89  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 703591   | 96.61  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.69 | 330  | 289969   | 103.43 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.22  | 172  | 1427586  | 95.99  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.99 | 244  | 1729761  | 81.98  | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.62  | 77   | 12024    | 2.521  | ng    | # 74   |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 93870    | 18.733 | ng    | # 76   |
| 25) Isophorone                 | 7.42  | 82   | 703587   | 55.434 | ng    | # 62   |
| 50) Dimethylphthalate          | 9.61  | 163  | 84405    | 4.953  | ng    | # 99   |
| 51) 2,6-Dinitrotoluene         | 9.90  | 165  | 28448    | 7.743  | ng    | # 27   |
| 57) 2,4-Dinitrotoluene         | 9.90  | 165  | 28448    | 5.795  | ng    | # 30   |
| 67) 4-Bromophenyl-phenylether  | 10.69 | 248  | 17695    | 3.483  | ng    | # 1    |
| 77) Benzidine                  | 12.99 | 184  | 23622    | 2.463  | ng    | # 95   |

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



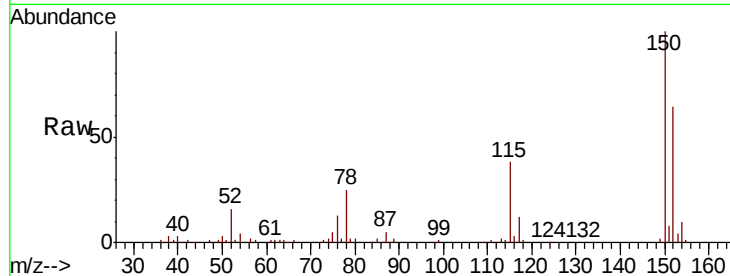


#1

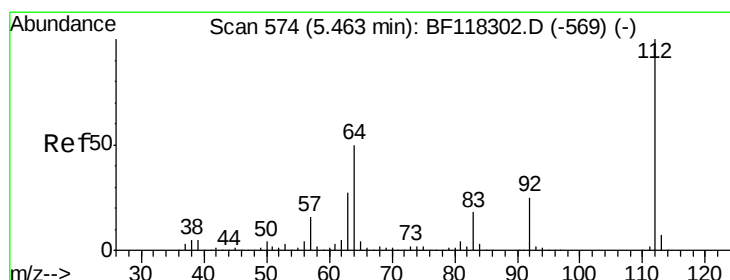
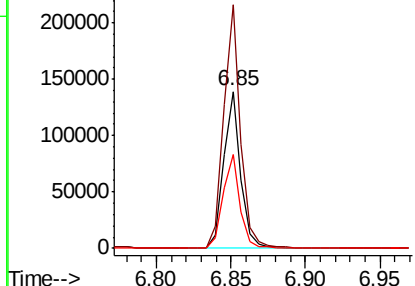
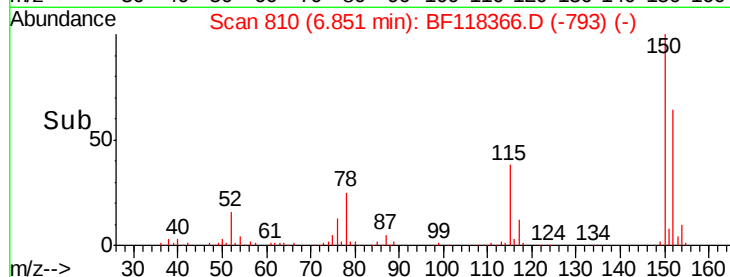
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. -0.00 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 111928  
Ion Ratio Lower Upper  
152 100  
150 155.2 125.4 188.2  
115 59.6 50.2 75.4



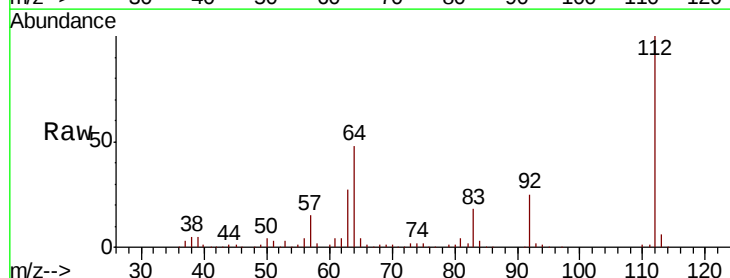
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



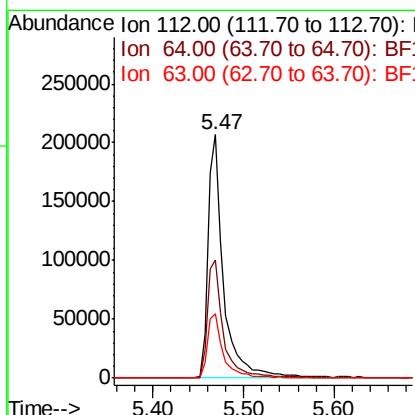
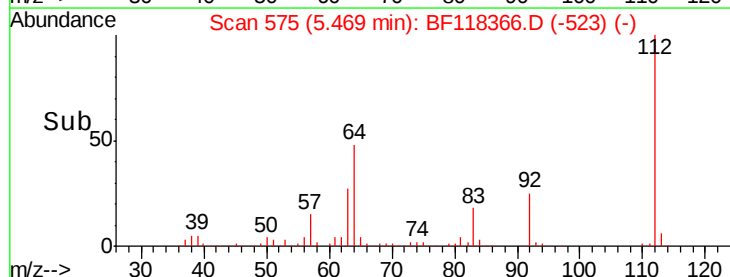
#5

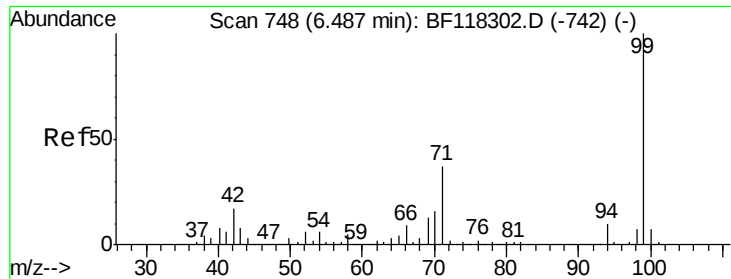
2-Fluorophenol  
Concen: 38.568 ng  
RT: 5.47 min Scan# 575  
Delta R.T. 0.01 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

Tgt Ion:112 Resp: 252892  
Ion Ratio Lower Upper  
112 100  
64 48.4 39.7 59.5  
63 26.6 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: 23.893 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.00 min

Lab File: BF118366.D

Acq: 28 Dec 2019 15:40

Instrument :

BNA\_F

ClientSampleId :

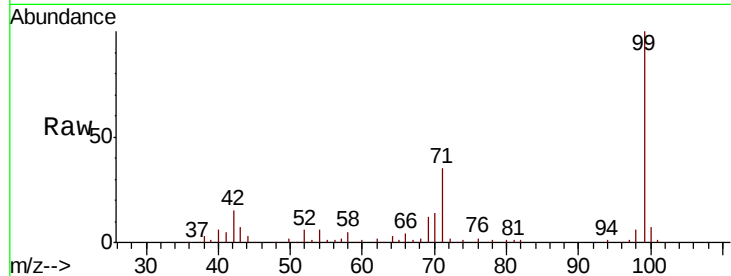
Tot Ion: 99 Resp: 194348

Ion Ratio Lower Upper

99 100

42 14.8 13.5 20.3

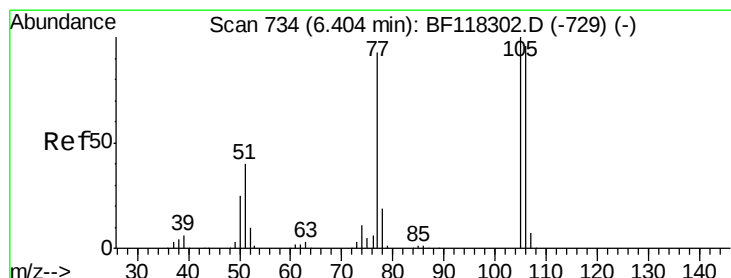
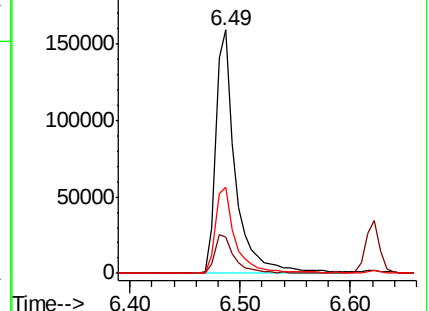
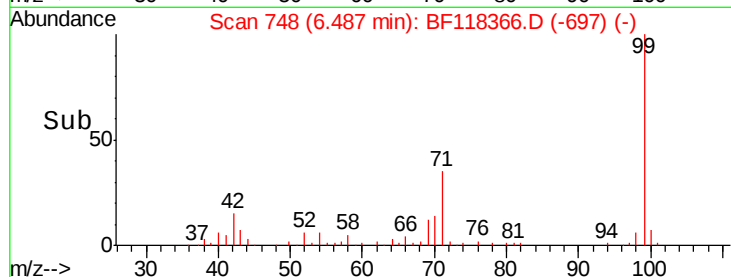
71 35.2 29.4 44.2



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: 2.521 ng

RT: 6.62 min Scan# 771

Delta R.T. 0.22 min

Lab File: BF118366.D

Acq: 28 Dec 2019 15:40

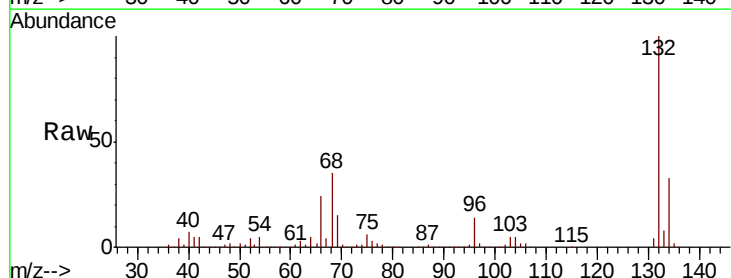
Tgt Ion: 77 Resp: 12024

Ion Ratio Lower Upper

77 100

105 84.4 87.5 127.5#

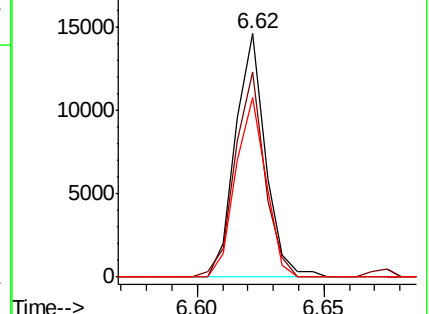
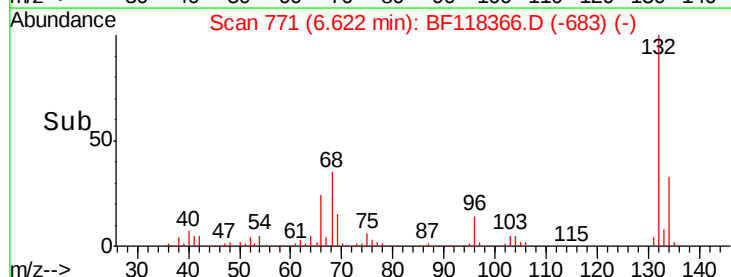
106 73.8 83.6 123.6#

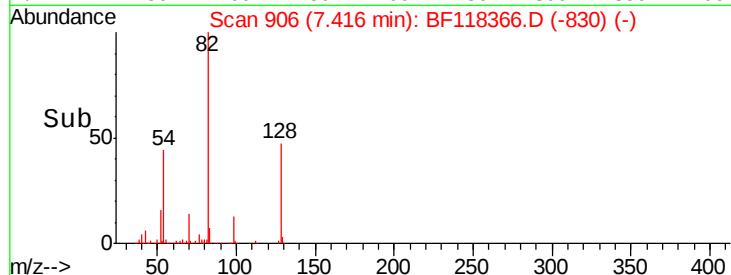
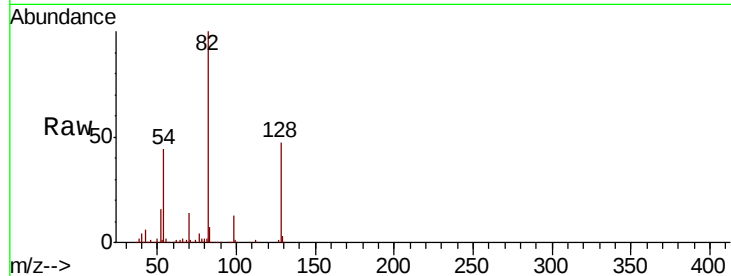
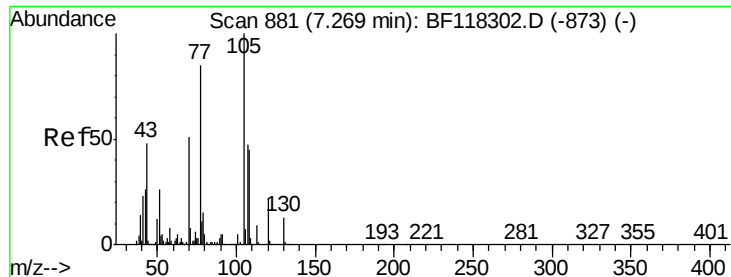


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

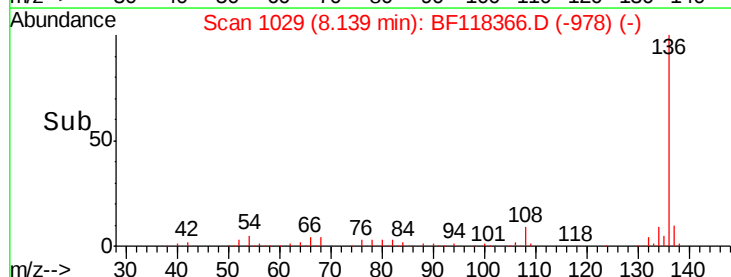
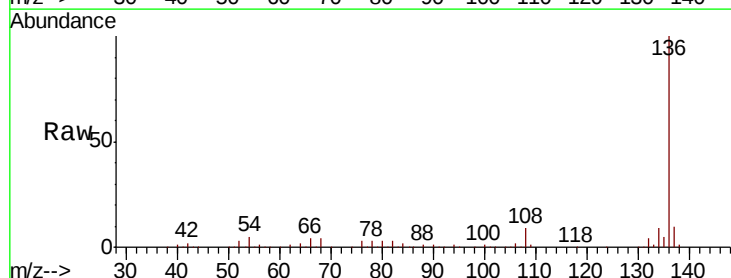
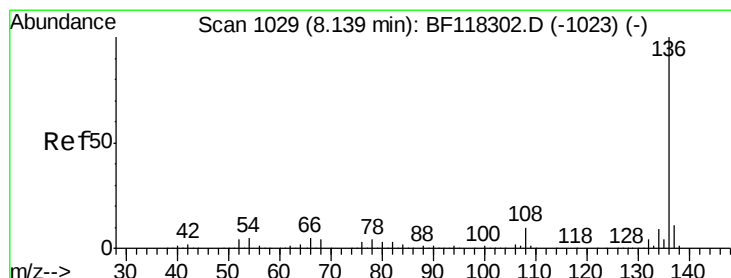
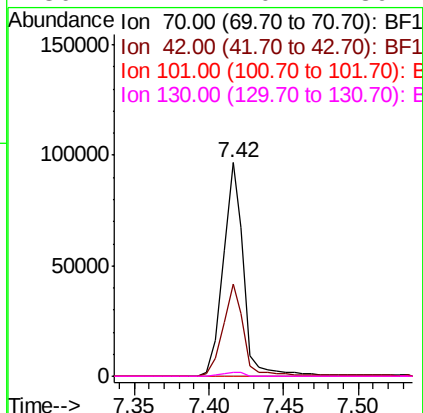




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.733 ng  
RT: 7.42 min Scan# 906  
Delta R.T. 0.15 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

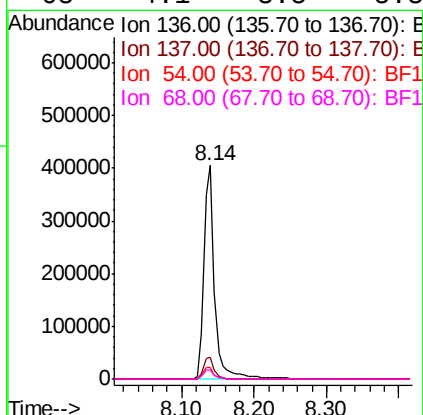
Instrument :  
BNA\_F  
ClientSampleId :

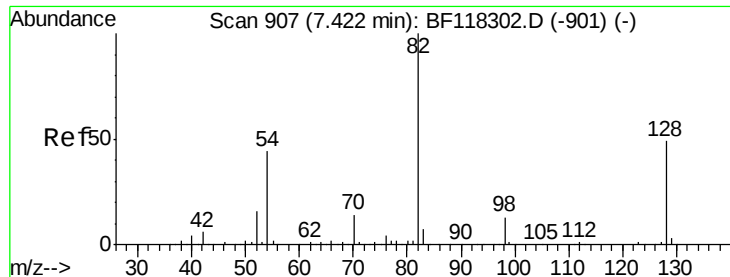
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 42.9  | 41.1  | 61.7  |
| 101     | 0.0   | 8.3   | 12.5# |
| 130     | 2.1   | 20.1  | 30.1# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.14 min Scan# 1029  
Delta R.T. -0.00 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.2  | 8.9   | 13.3  |
| 54      | 5.2   | 4.2   | 6.4   |
| 68      | 4.1   | 3.5   | 5.3   |

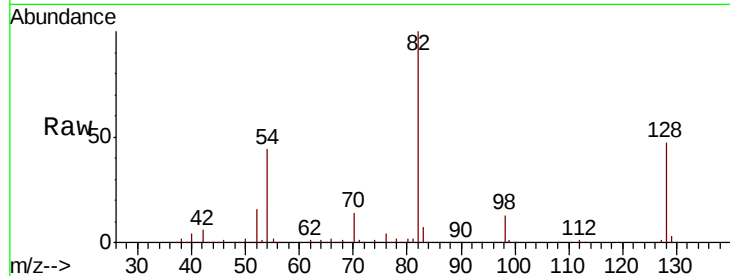




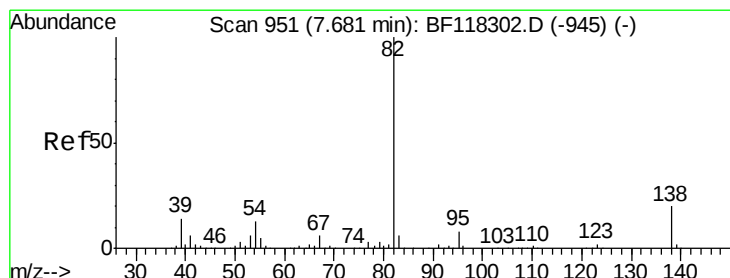
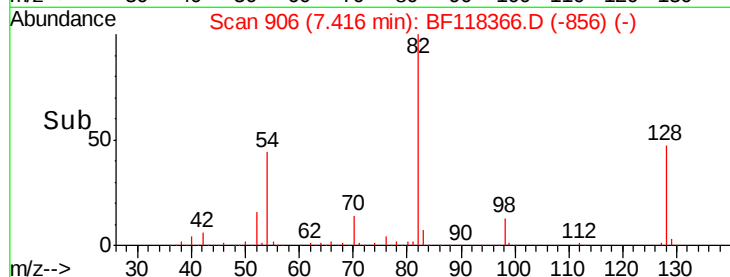
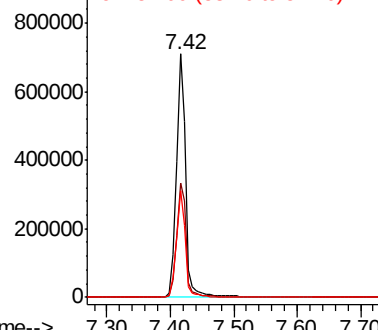
#23  
Nitrobenzene-d5  
Concen: 96.610 ng  
RT: 7.42 min Scan# 906  
Delta R.T. -0.01 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 82 Resp: 703591  
Ion Ratio Lower Upper  
82 100  
128 46.7 39.6 59.4  
54 43.8 34.9 52.3

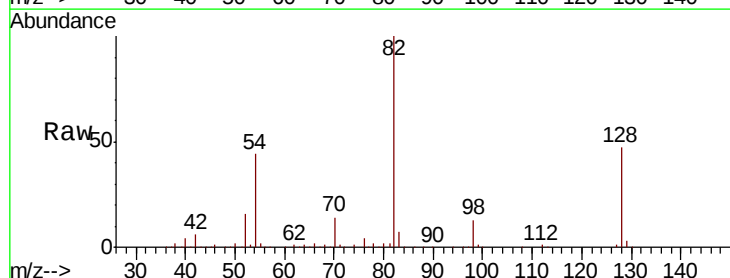


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

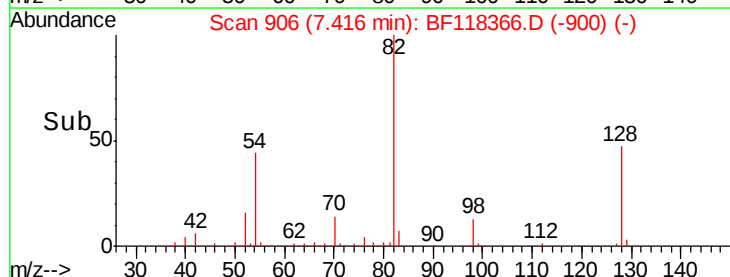
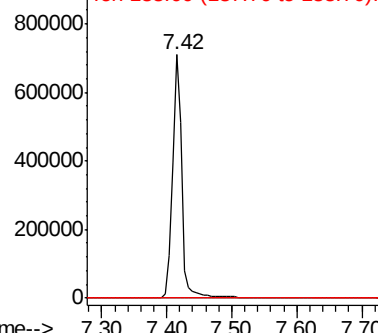


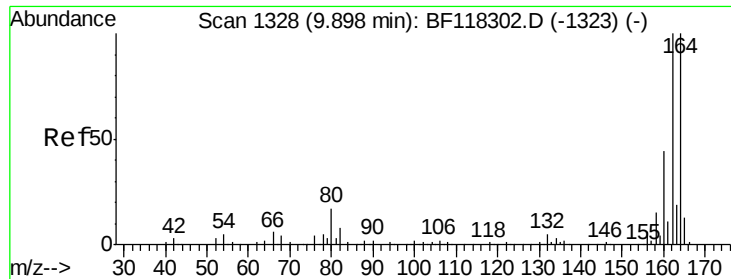
#25  
Isophorone  
Concen: 55.434 ng  
RT: 7.42 min Scan# 906  
Delta R.T. -0.26 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

Tgt Ion: 82 Resp: 703587  
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

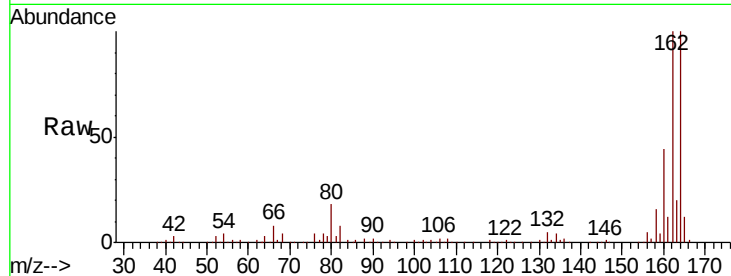




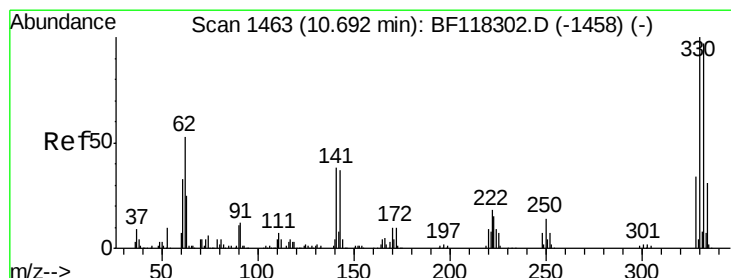
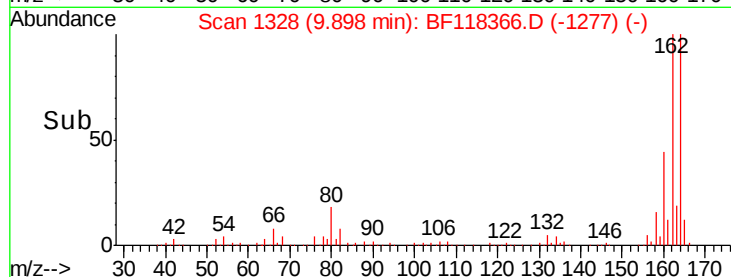
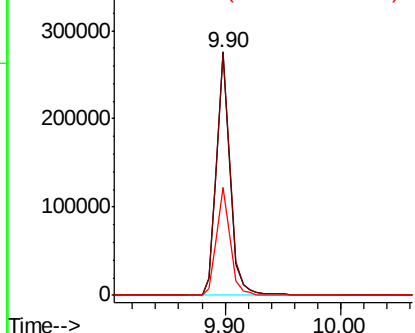
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. -0.00 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 227026  
Ion Ratio Lower Upper  
164 100  
162 99.7 80.0 120.0  
160 44.4 34.8 52.2

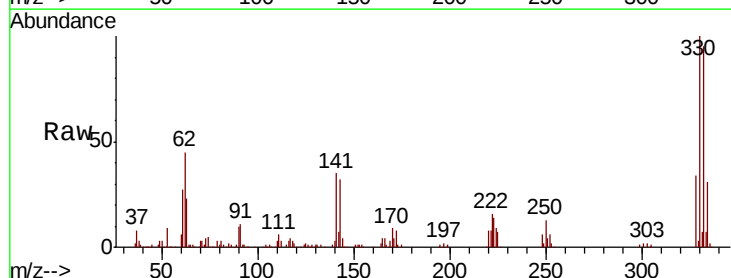


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

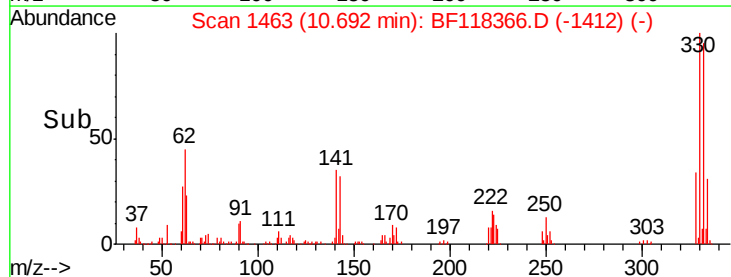
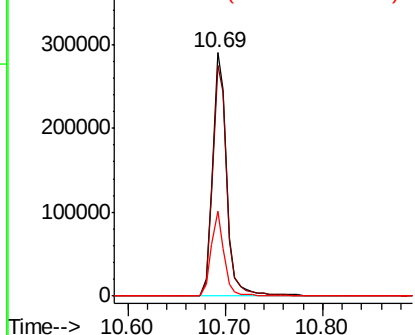


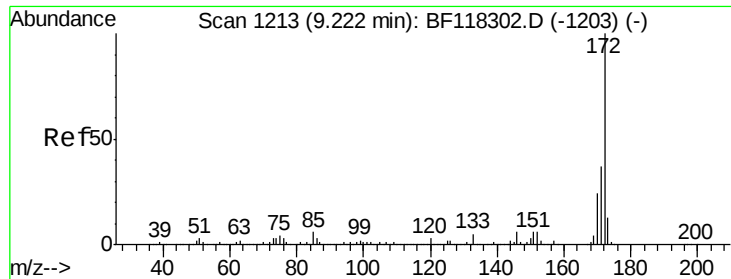
#42  
2,4,6-Tribromophenol  
Concen: 103.427 ng  
RT: 10.69 min Scan# 1463  
Delta R.T. -0.00 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

Tgt Ion:330 Resp: 289969  
Ion Ratio Lower Upper  
330 100  
332 95.9 76.6 114.8  
141 32.7 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

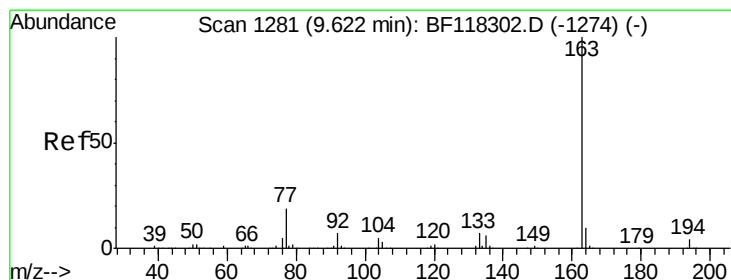
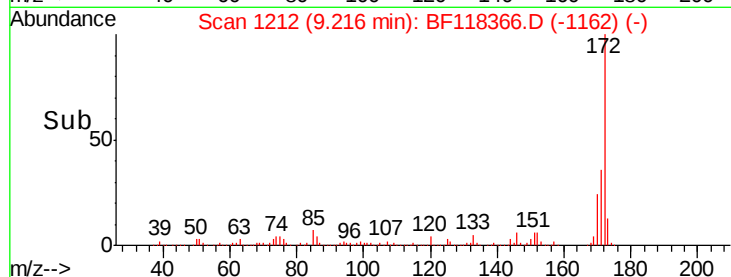
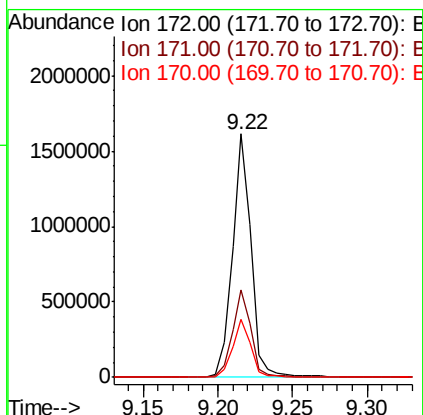
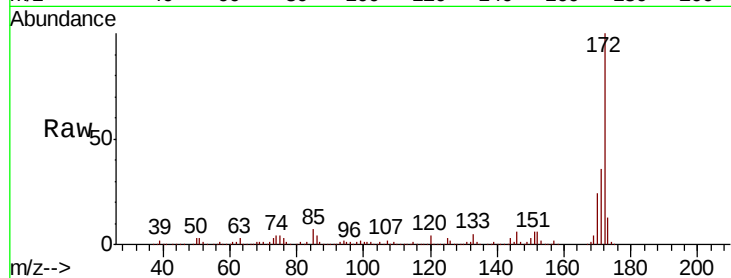




#45  
2-Fluorobiphenyl  
Concen: 95.988 ng  
RT: 9.22 min Scan# 1212  
Delta R.T. -0.01 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

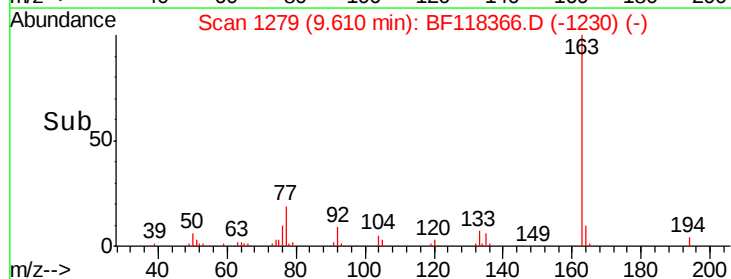
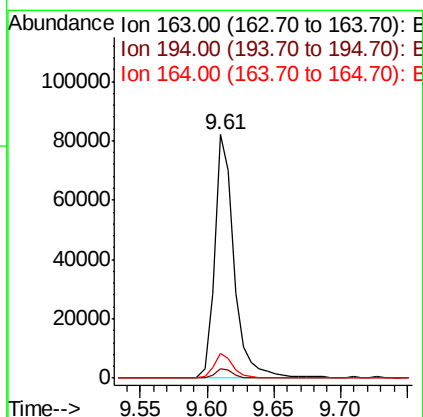
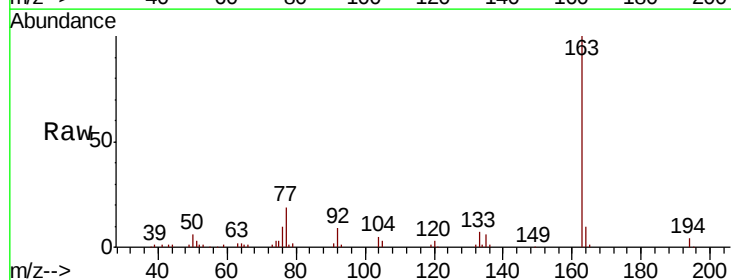
Instrument :  
BNA\_F  
ClientSampleId :

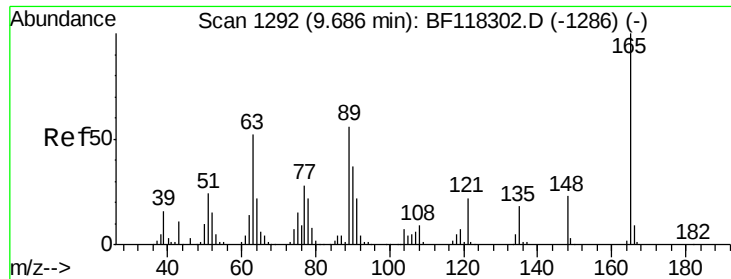
Tot Ion:172 Resp: 1427586  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.3 43.9  
170 23.7 19.2 28.8



#50  
Dimethylphthalate  
Concen: 4.953 ng  
RT: 9.61 min Scan# 1279  
Delta R.T. -0.01 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

Tgt Ion:163 Resp: 84405  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.2 4.8  
164 10.2 7.9 11.9

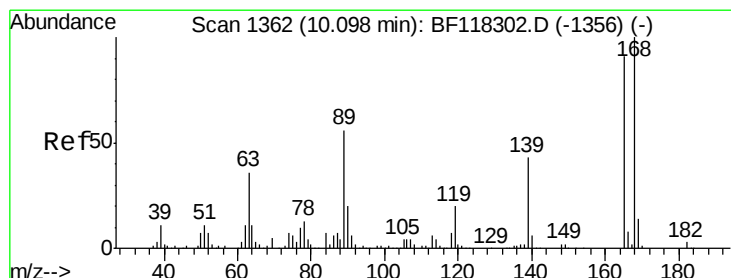
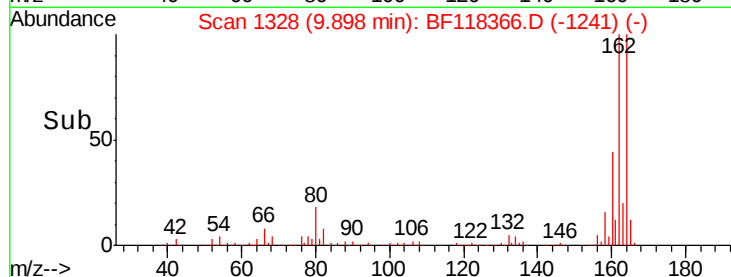
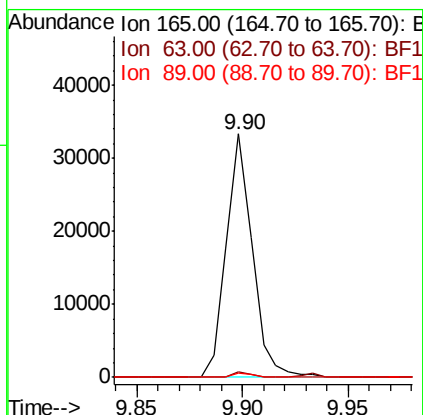
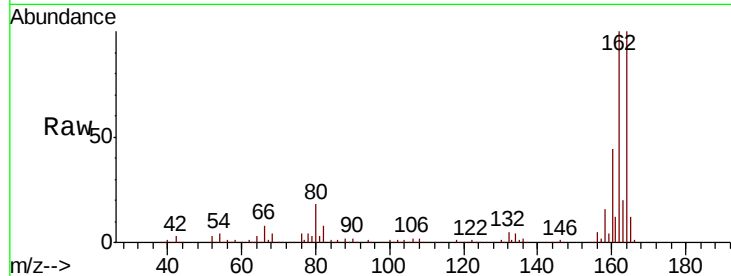




#51  
 2,6-Dinitrotoluene  
 Concen: 7.743 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. 0.21 min  
 Lab File: BF118366.D  
 Acq: 28 Dec 2019 15:40

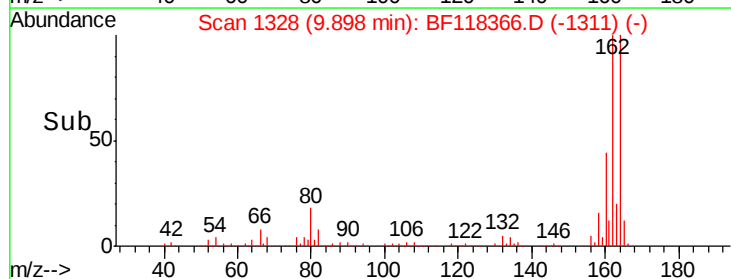
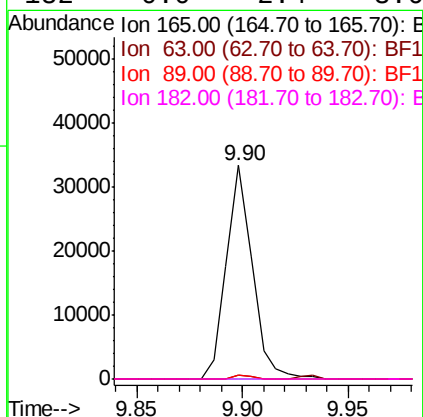
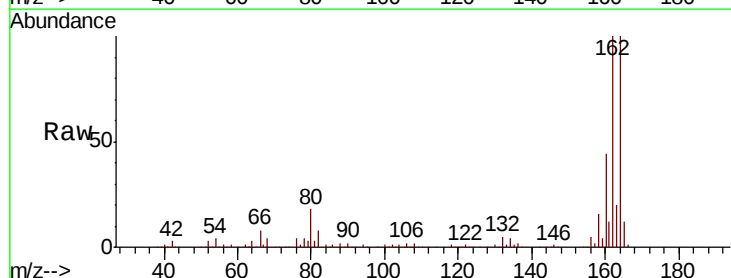
Instrument :  
 BNA\_F  
 ClientSampleId :

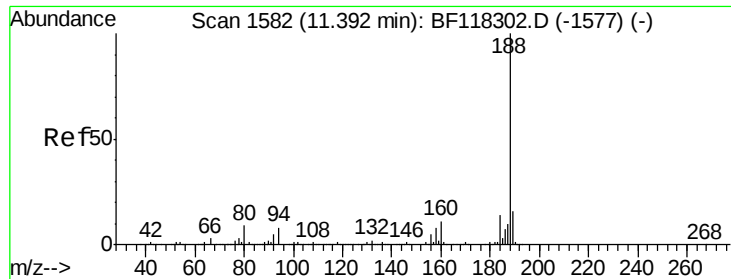
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.1   | 42.2  | 63.4# |
| 89      | 1.7   | 44.4  | 66.6# |



#57  
 2,4-Dinitrotoluene  
 Concen: 5.795 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.20 min  
 Lab File: BF118366.D  
 Acq: 28 Dec 2019 15:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.1   | 32.0  | 48.0# |
| 89      | 1.7   | 49.3  | 73.9# |
| 182     | 0.0   | 2.4   | 3.6#  |

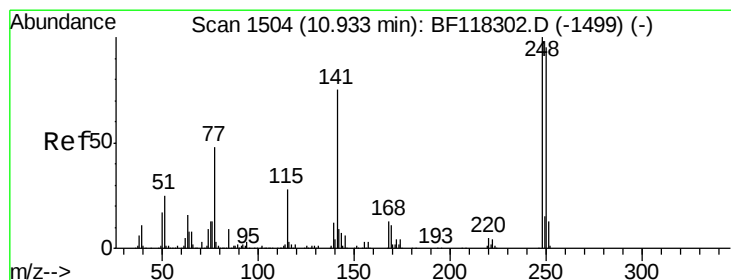
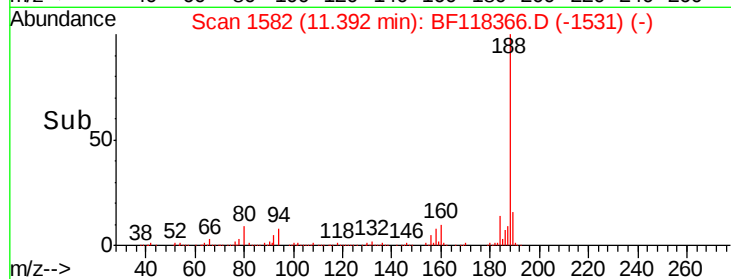
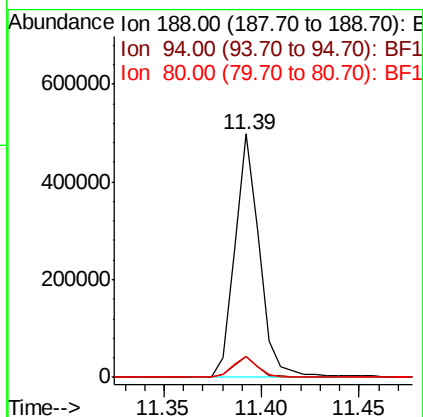
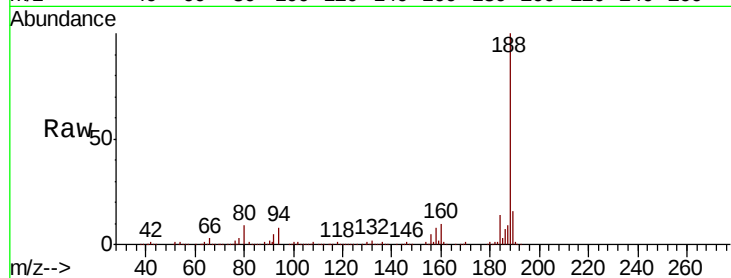




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.39 min Scan# 1582  
Delta R.T. -0.00 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

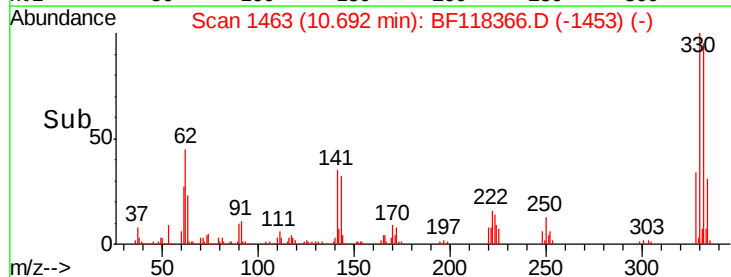
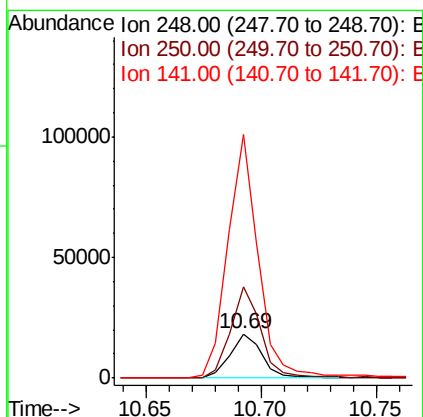
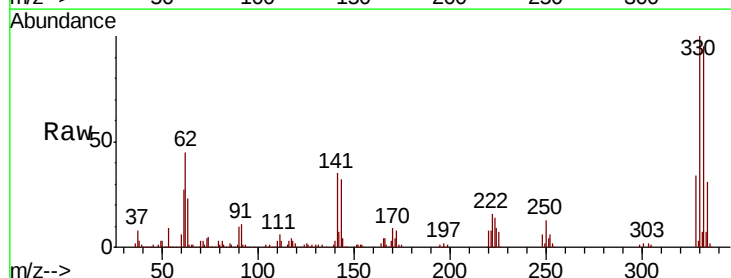
Instrument :  
BNA\_F  
ClientSampleId :

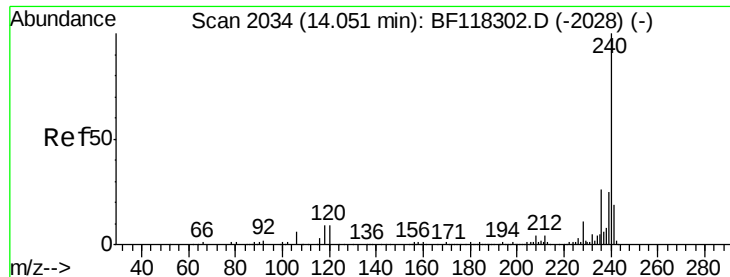
Tot Ion:188 Resp: 434107  
Ion Ratio Lower Upper  
188 100  
94 8.4 6.7 10.1  
80 8.8 7.2 10.8



#67  
4-Bromophenyl-phenylether  
Concen: 3.483 ng  
RT: 10.69 min Scan# 1463  
Delta R.T. -0.24 min  
Lab File: BF118366.D  
Acq: 28 Dec 2019 15:40

Tgt Ion:248 Resp: 17695  
Ion Ratio Lower Upper  
248 100  
250 208.2 76.4 114.6#  
141 553.2 60.2 90.2#





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF118366.D

Acq: 28 Dec 2019 15:40

Instrument :

BNA\_F

ClientSampleId :

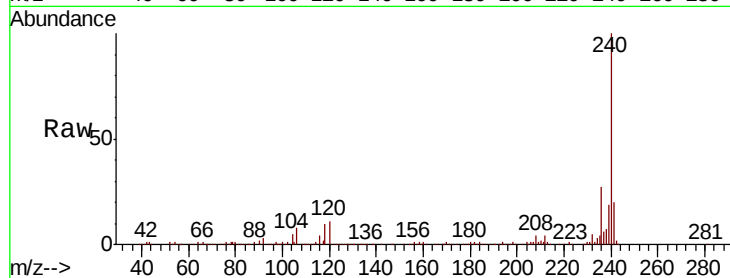
Tot Ion:240 Resp: 350056

Ion Ratio Lower Upper

240 100

120 11.3 7.1 10.7#

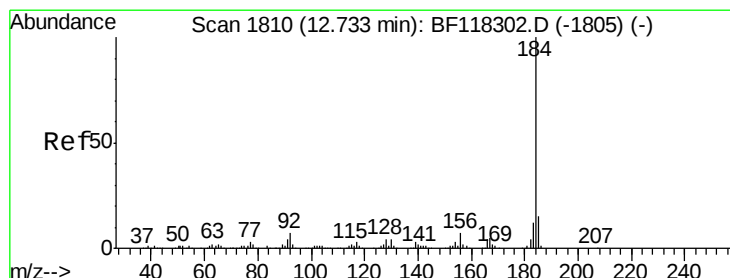
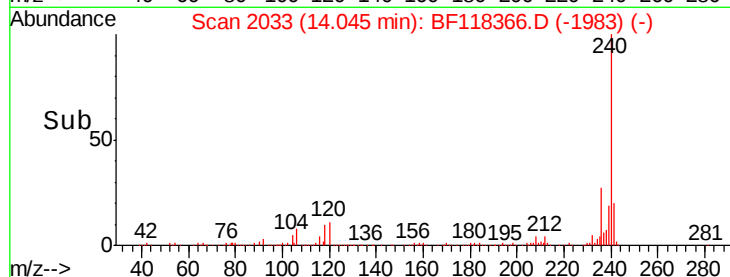
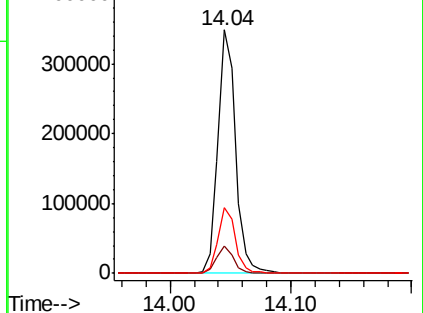
236 27.1 21.0 31.6



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: 2.463 ng

RT: 12.99 min Scan# 1853

Delta R.T. 0.25 min

Lab File: BF118366.D

Acq: 28 Dec 2019 15:40

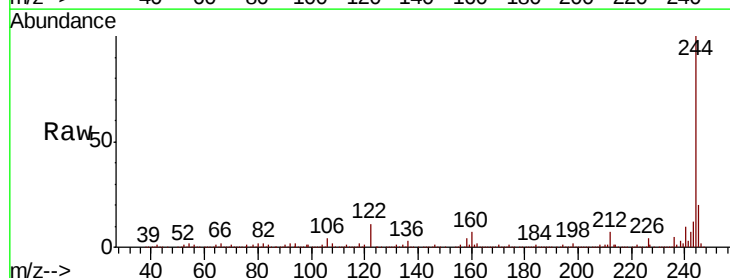
Tgt Ion:184 Resp: 23622

Ion Ratio Lower Upper

184 100

185 18.7 12.3 18.5#

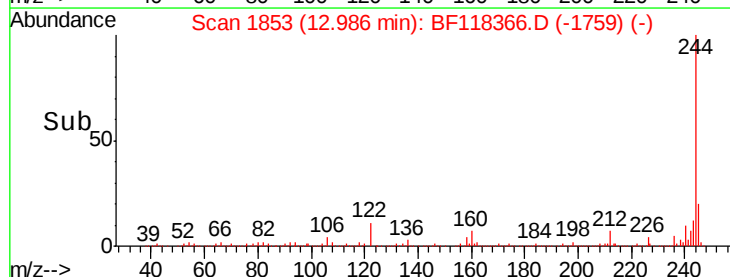
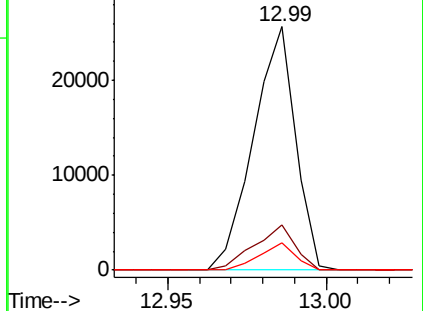
183 11.4 9.4 14.2

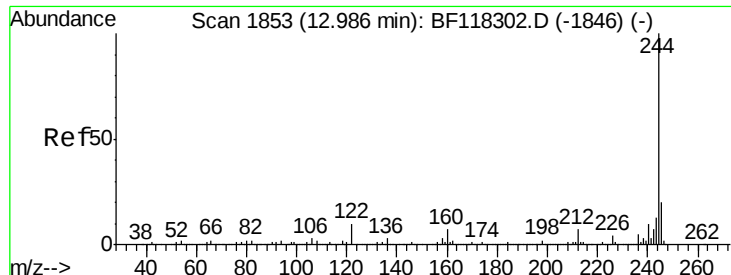


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 81.979 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.00 min

Lab File: BF118366.D

Acq: 28 Dec 2019 15:40

Instrument :

BNA\_F

ClientSampleId :

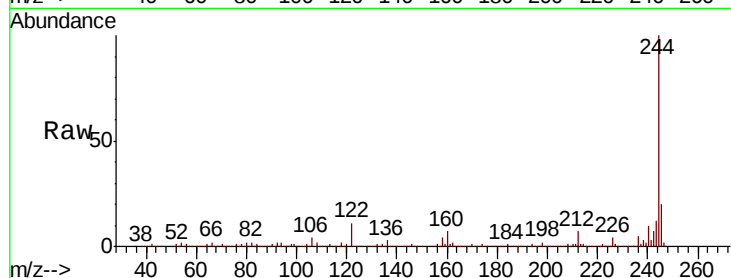
Tot Ion:244 Resp: 1729761

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.2

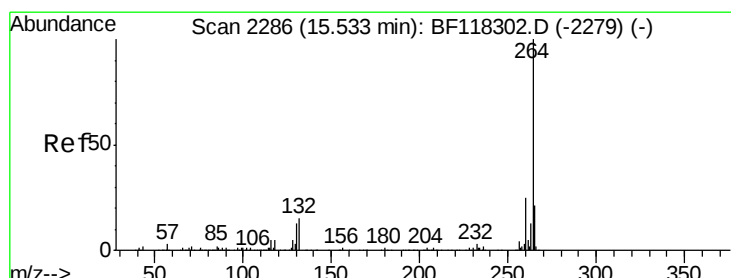
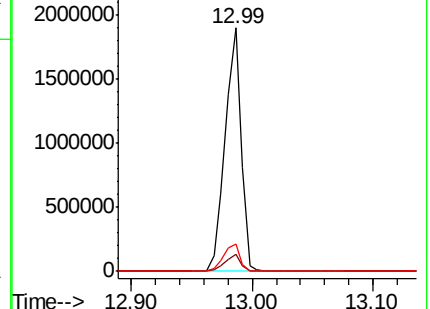
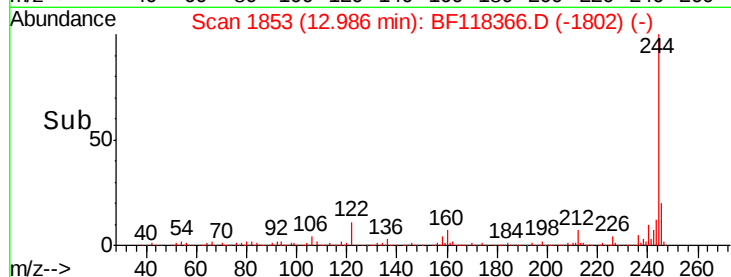
122 11.3 7.8 11.8



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.54 min Scan# 2287

Delta R.T. 0.01 min

Lab File: BF118366.D

Acq: 28 Dec 2019 15:40

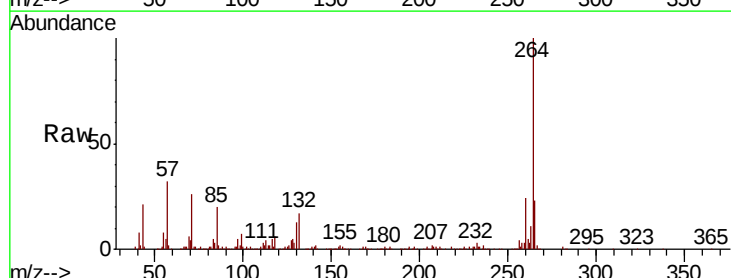
Tgt Ion:264 Resp: 348894

Ion Ratio Lower Upper

264 100

260 24.1 19.8 29.6

265 22.7 17.0 25.4



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

