

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071119\  
 Data File : BF115496.D  
 Acq On : 11 Jul 2019 12:48  
 Operator : HP/JU  
 Sample : PB121224BL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121224BL

Quant Time: Jul 12 03:11:23 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 10 16:47:05 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 184836   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.17  | 136  | 724984   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.93  | 164  | 363369   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.42 | 188  | 706496   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.05 | 240  | 504521   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 15.53 | 264  | 451457   | 20.00 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.53  | 112  | 1386780  | 115.92 | ng    | 0.01     |
| 7) Phenol-d6                | 6.53  | 99   | 1784983  | 117.32 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.46  | 82   | 1161895  | 94.69  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.72 | 330  | 532532   | 132.55 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.26  | 172  | 2005628  | 96.85  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.01 | 244  | 2267572  | 92.03  | ng    | 0.00     |

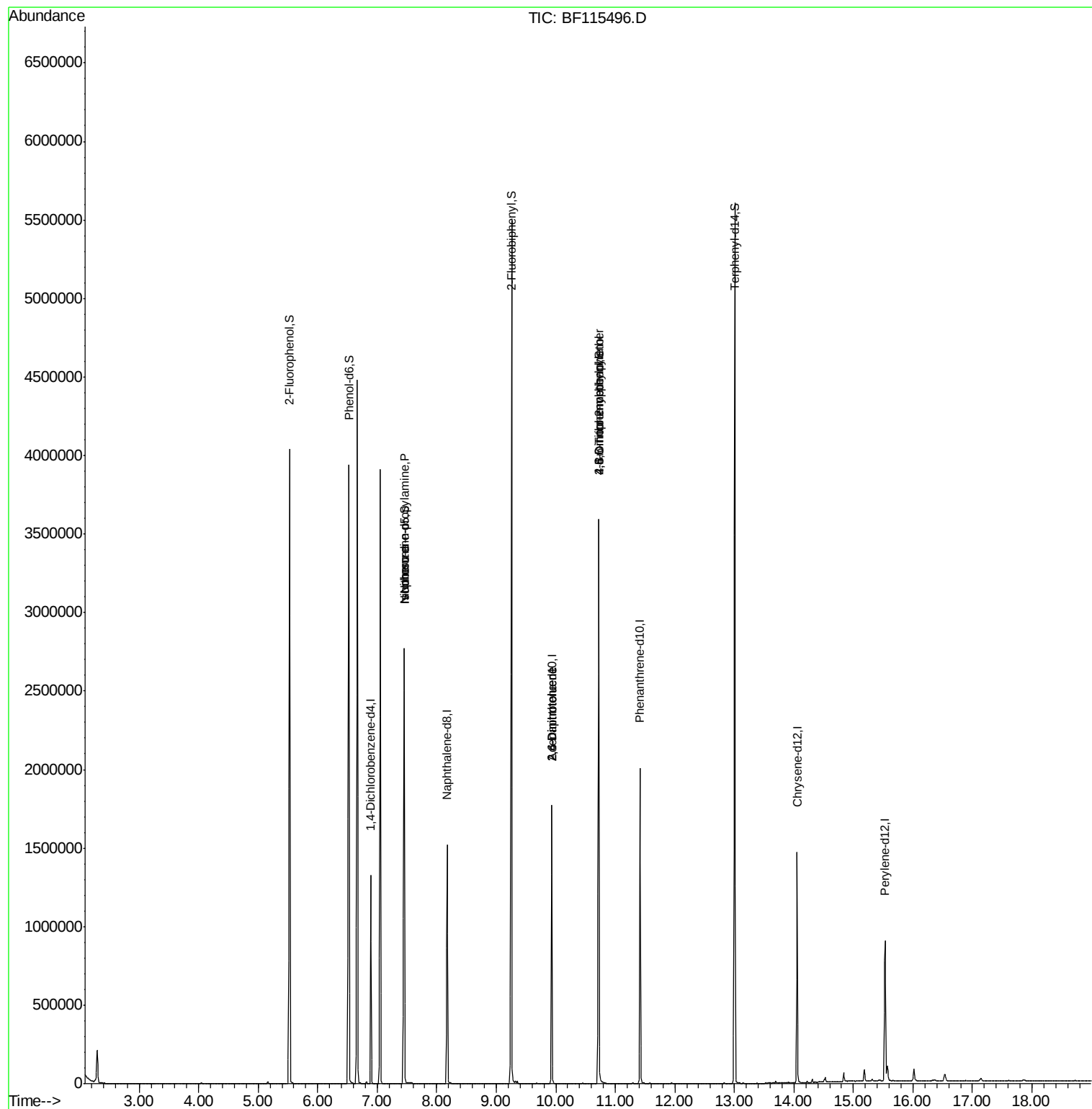
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.53  | 77   | 2782     | Below Cal |       | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 154854   | 15.044    | ng    | # 76   |
| 25) Isophorone                 | 7.46  | 82   | 1142373  | 42.952    | ng    | # 64   |
| 51) 2,6-Dinitrotoluene         | 9.93  | 165  | 46375    | 7.840     | ng    | # 28   |
| 57) 2,4-Dinitrotoluene         | 9.93  | 165  | 46375    | 6.169     | ng    | # 24   |
| 65) 4,6-Dinitro-2-methylphenol | 10.72 | 198  | 1026     | 8.071     | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.72 | 248  | 32215    | 4.064     | ng    | # 1    |

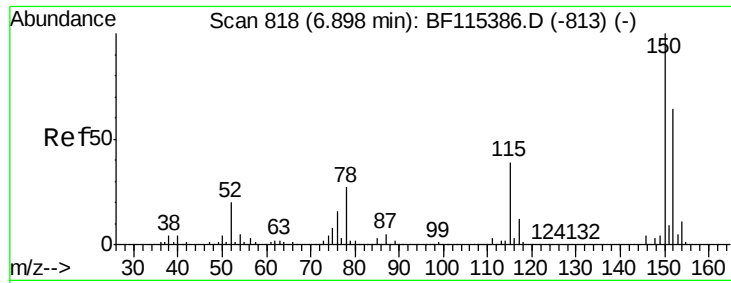
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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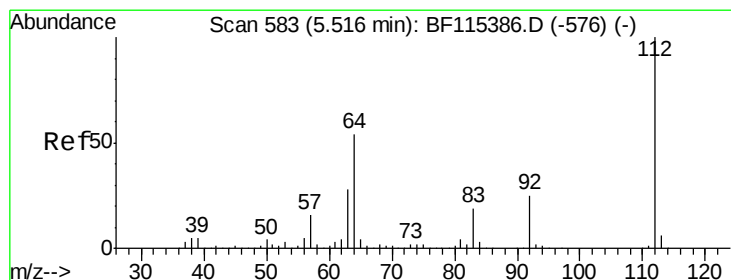
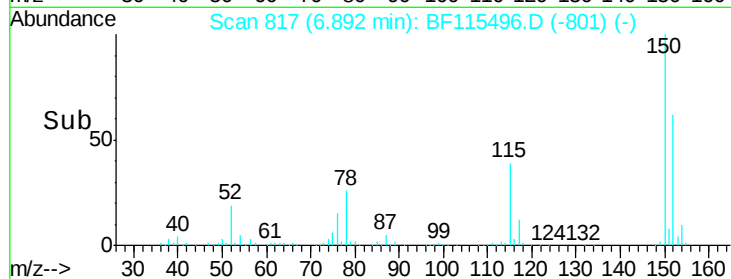
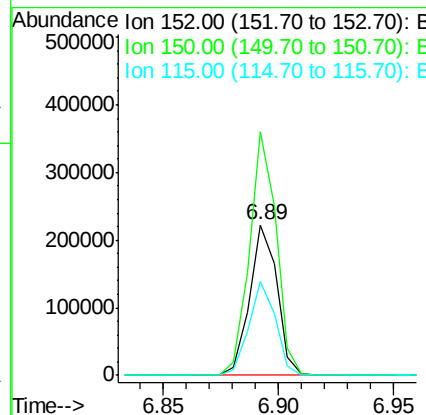
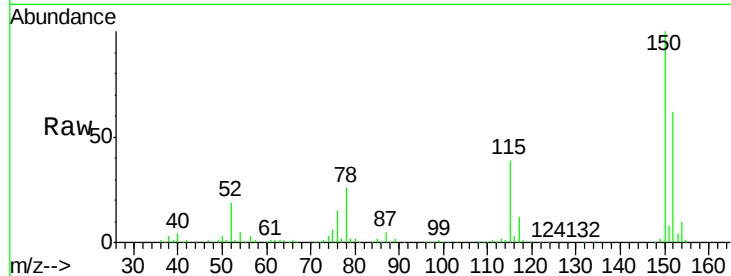


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 817  
Delta R.T. -0.01 min  
Lab File: BF115496.D  
Acq: 11 Jul 2019 12:48

Instrument :  
BNA\_F  
ClientSampleId :  
PB121224BL

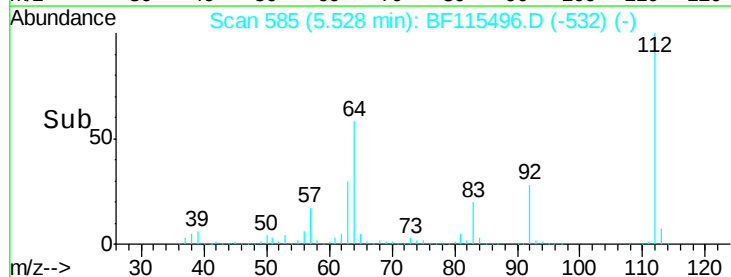
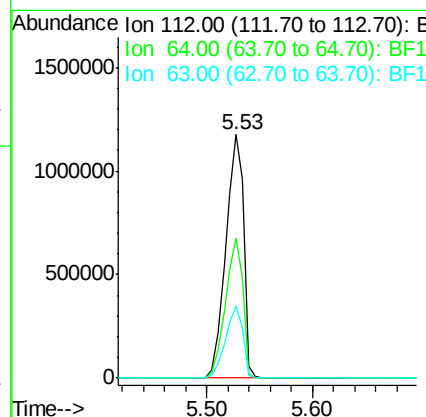
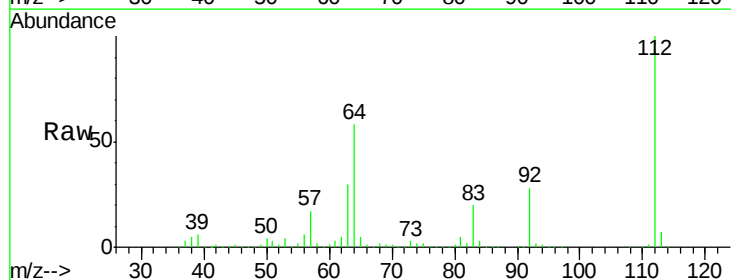
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.6 | 127.4 | 191.2 |
| 115     | 62.4  | 46.2  | 69.4  |

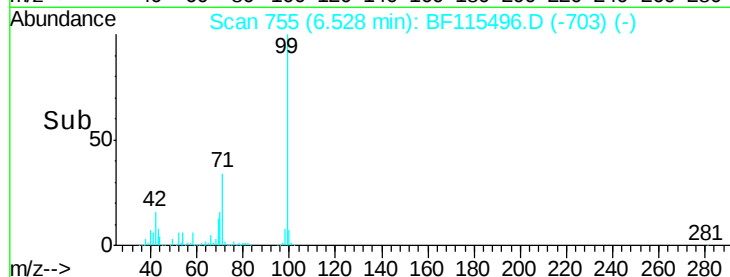
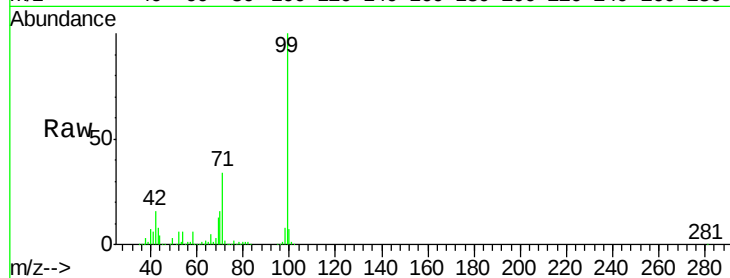
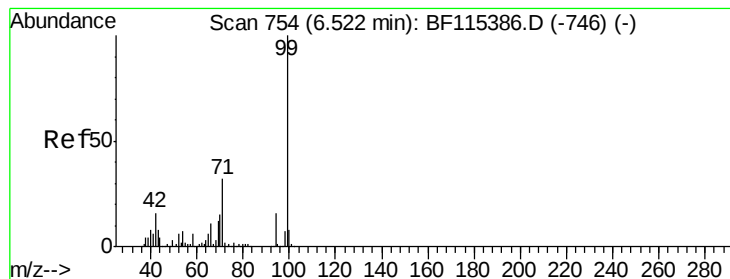


#5

2-Fluorophenol  
Concen: 115.920 ng  
RT: 5.53 min Scan# 585  
Delta R.T. 0.01 min  
Lab File: BF115496.D  
Acq: 11 Jul 2019 12:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.6  | 44.2  | 66.2  |
| 63      | 29.8  | 22.1  | 33.1  |





#7

Phenol-d6

Concen: 117.319 ng

RT: 6.53 min Scan# 755

Delta R.T. 0.01 min

Lab File: BF115496.D

Acq: 11 Jul 2019 12:48

Instrument :

BNA\_F

ClientSampleId :

PB121224BL

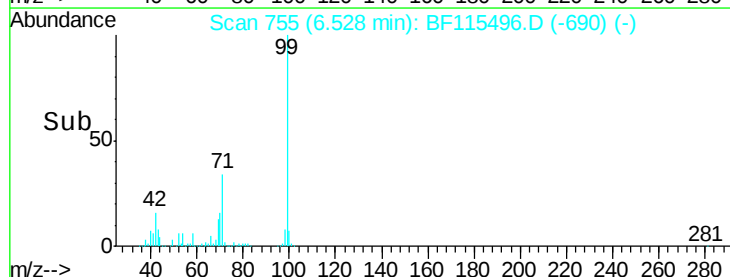
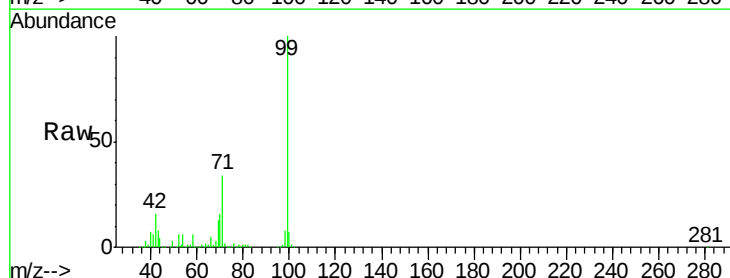
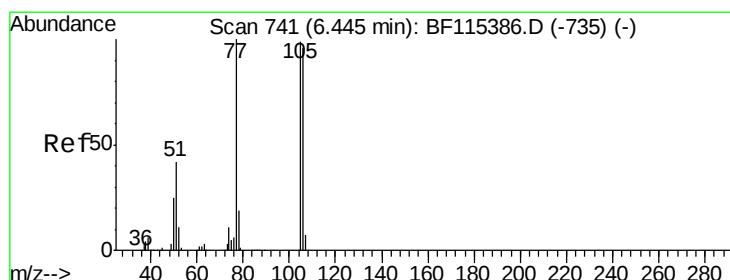
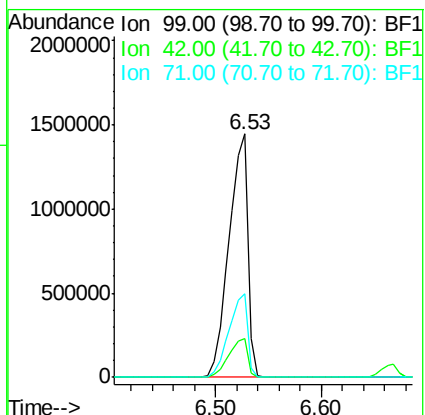
Tot Ion: 99 Resp: 1784983

Ion Ratio Lower Upper

99 100

42 15.9 12.8 19.2

71 34.5 26.5 39.7



#9

Benzaldehyde

Concen: Below Cal

RT: 6.53 min Scan# 755

Delta R.T. 0.08 min

Lab File: BF115496.D

Acq: 11 Jul 2019 12:48

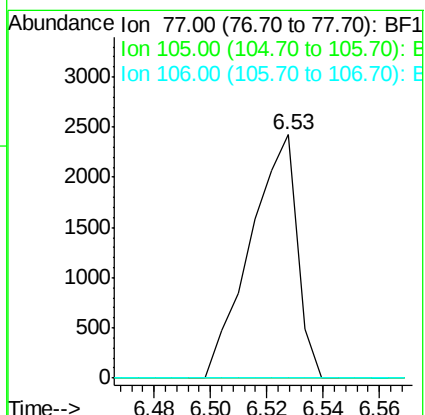
Tgt Ion: 77 Resp: 2782

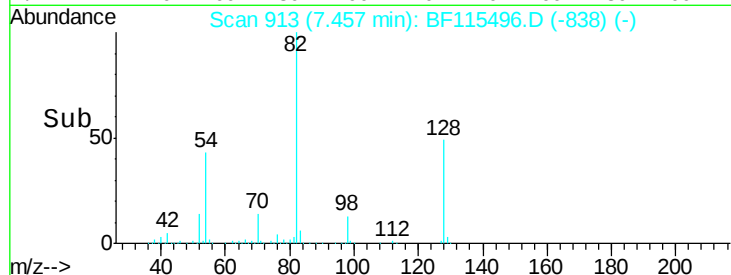
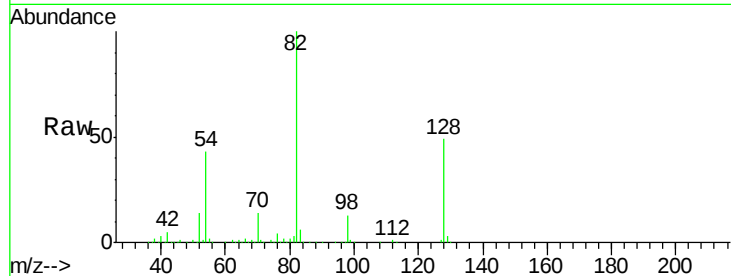
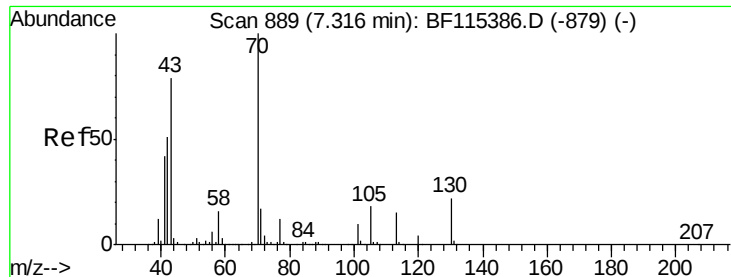
Ion Ratio Lower Upper

77 100

105 0.0 82.9 122.9#

106 0.0 77.8 117.8#

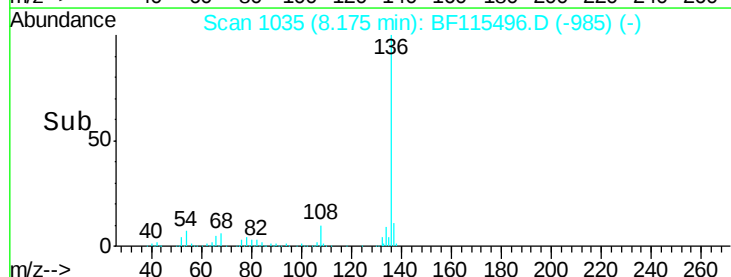
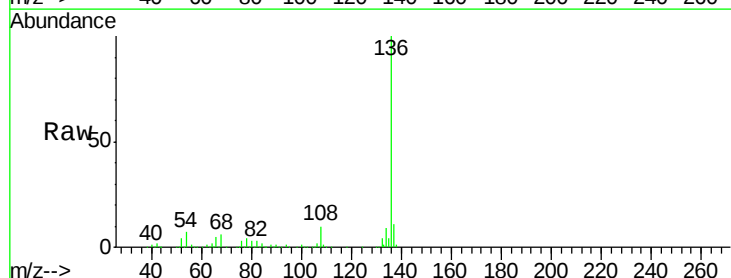
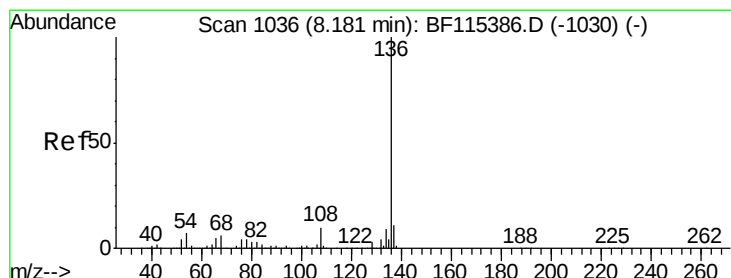
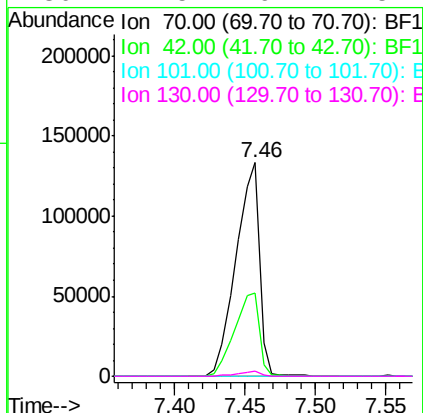




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.044 ng  
RT: 7.46 min Scan# 913  
Delta R.T. 0.14 min  
Lab File: BF115496.D  
Acq: 11 Jul 2019 12:48

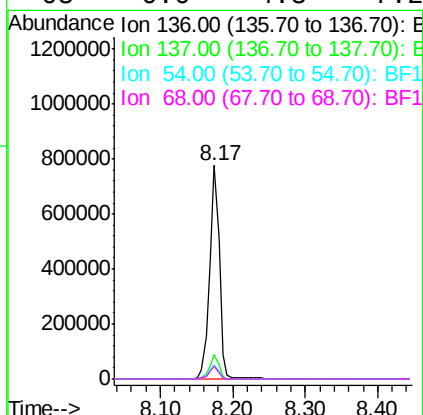
Instrument :  
BNA\_F  
ClientSampleId :  
PB121224BL

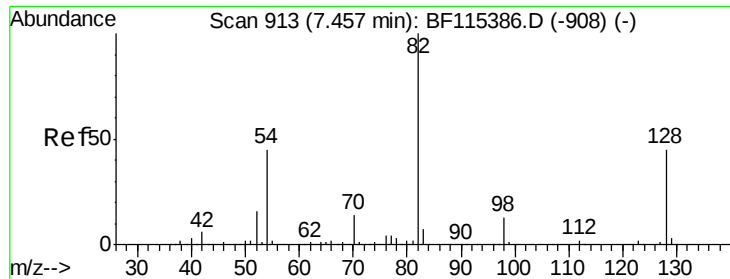
Tot Ion: 70 Resp: 154854  
Ion Ratio Lower Upper  
70 100  
42 39.1 38.5 57.7  
101 0.0 8.0 12.0#  
130 2.5 19.1 28.7#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.17 min Scan# 1035  
Delta R.T. -0.01 min  
Lab File: BF115496.D  
Acq: 11 Jul 2019 12:48

Tgt Ion: 136 Resp: 724984  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.8 13.2  
54 6.7 5.4 8.0  
68 6.0 4.8 7.2

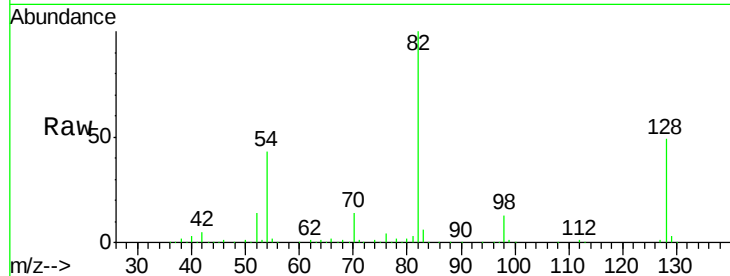




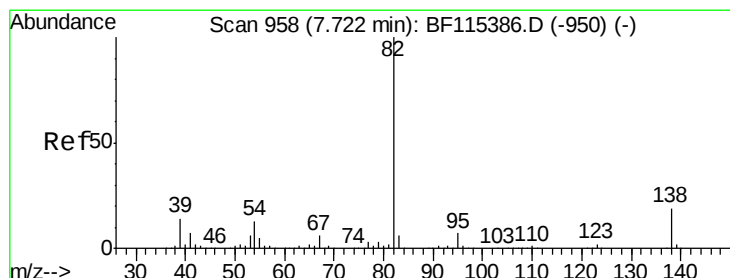
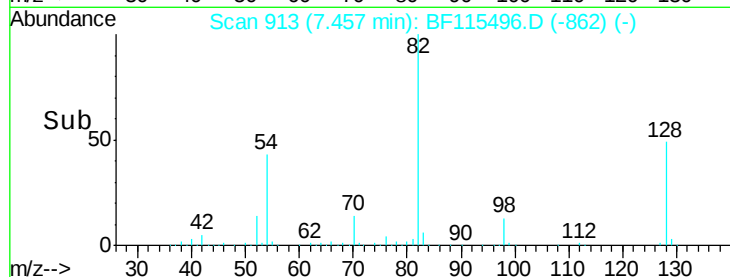
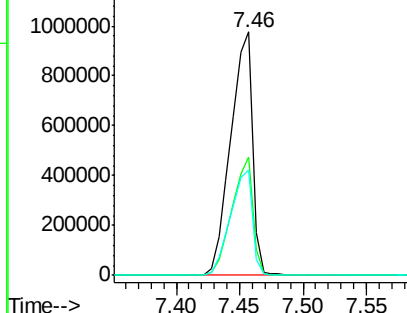
#23  
Nitrobenzene-d5  
Concen: 94.690 ng  
RT: 7.46 min Scan# 913  
Delta R.T. -0.00 min  
Lab File: BF115496.D  
Acq: 11 Jul 2019 12:48

Instrument :  
BNA\_F  
ClientSampleId :  
PB121224BL

Tot Ion: 82 Resp: 1161895  
Ion Ratio Lower Upper  
82 100  
128 48.8 36.7 55.1  
54 43.0 35.6 53.4

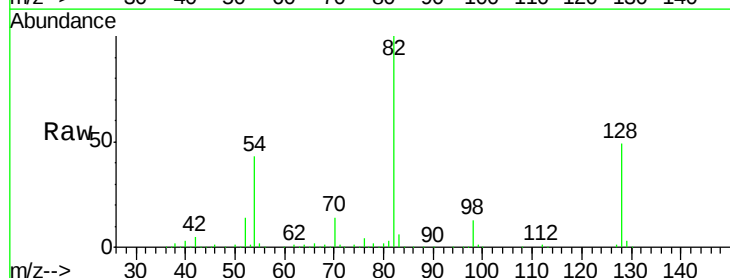


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

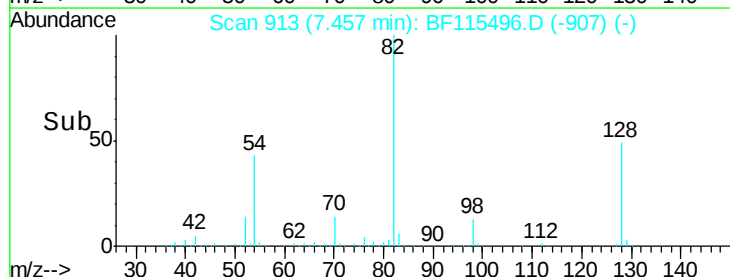
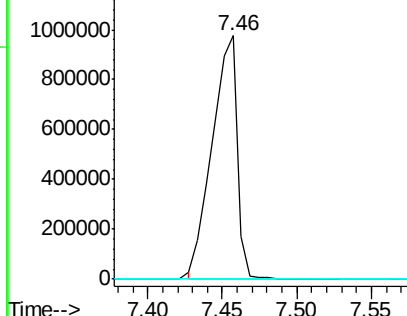


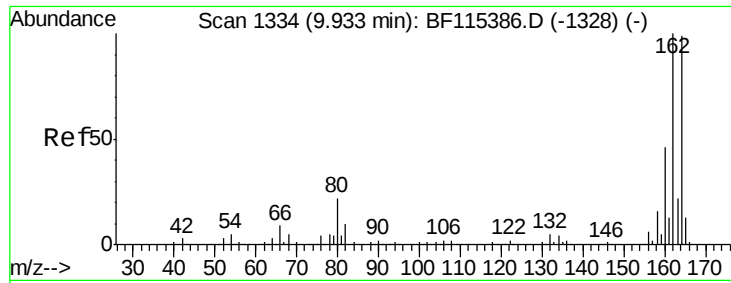
#25  
Isophorone  
Concen: 42.952 ng  
RT: 7.46 min Scan# 913  
Delta R.T. -0.26 min  
Lab File: BF115496.D  
Acq: 11 Jul 2019 12:48

Tgt Ion: 82 Resp: 1142373  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.4 8.2#  
138 0.0 15.1 22.7#



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

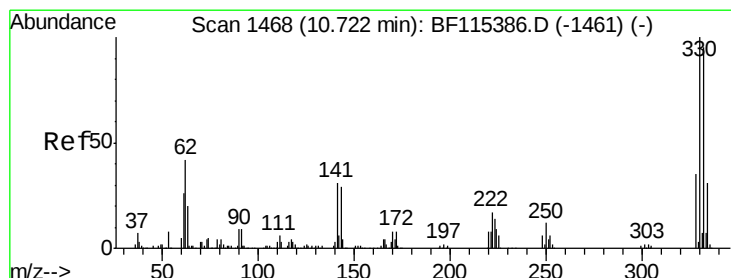
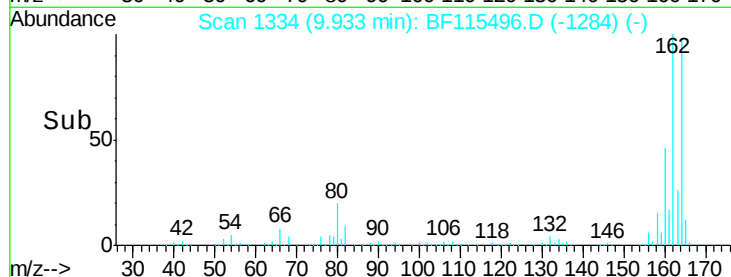
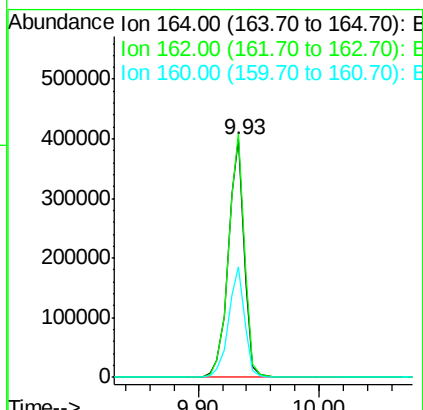
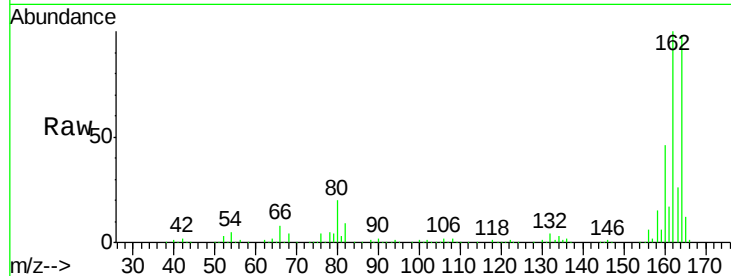




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.93 min Scan# 1334  
 Delta R.T. -0.01 min  
 Lab File: BF115496.D  
 Acq: 11 Jul 2019 12:48

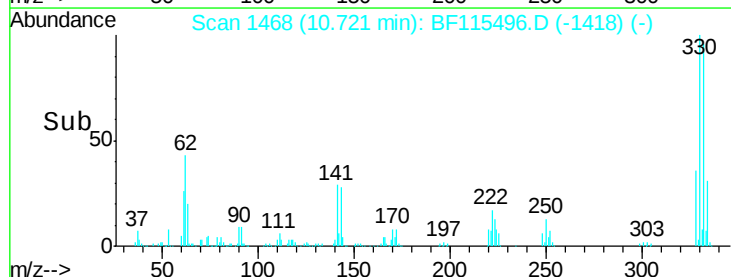
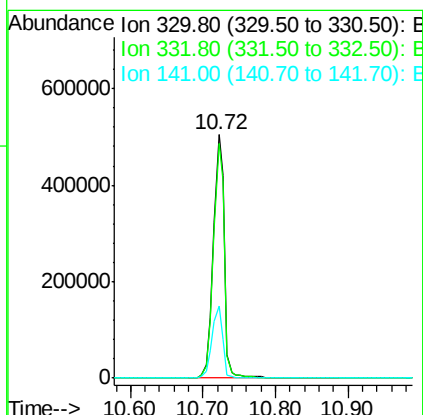
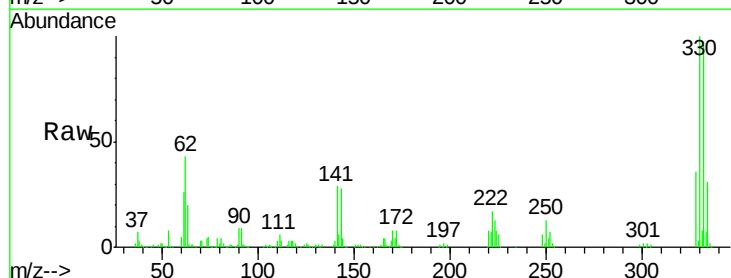
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121224BL

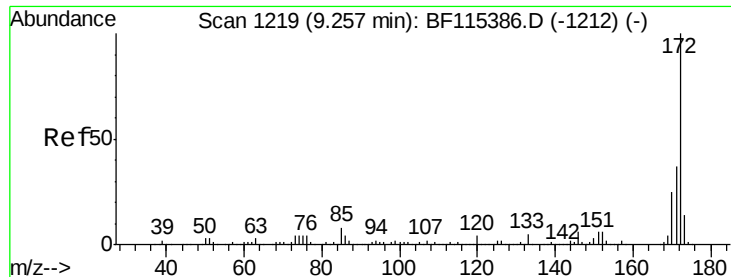
Tot Ion:164 Resp: 363369  
 Ion Ratio Lower Upper  
 164 100  
 162 102.3 82.3 123.5  
 160 46.7 37.2 55.8



#42  
 2,4,6-Tribromophenol  
 Concen: 132.548 ng  
 RT: 10.72 min Scan# 1468  
 Delta R.T. -0.01 min  
 Lab File: BF115496.D  
 Acq: 11 Jul 2019 12:48

Tgt Ion:330 Resp: 532532  
 Ion Ratio Lower Upper  
 330 100  
 332 96.0 77.4 116.0  
 141 29.4 24.7 37.1

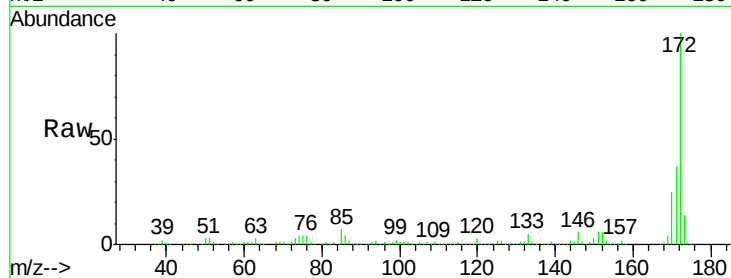




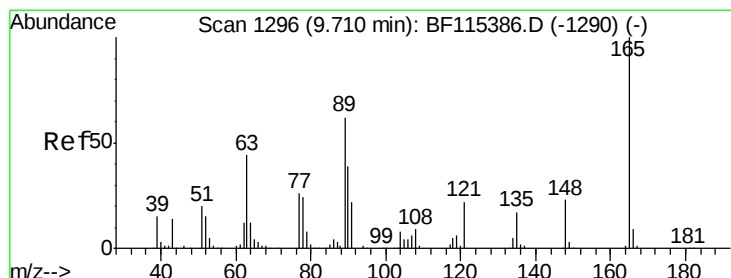
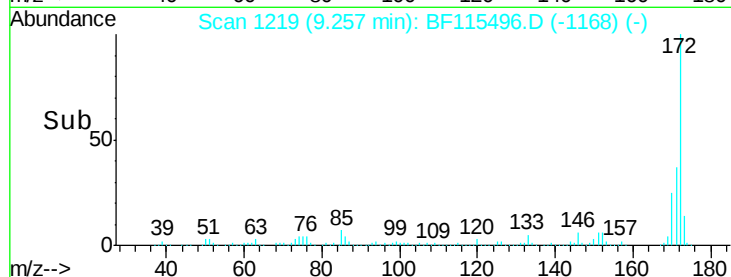
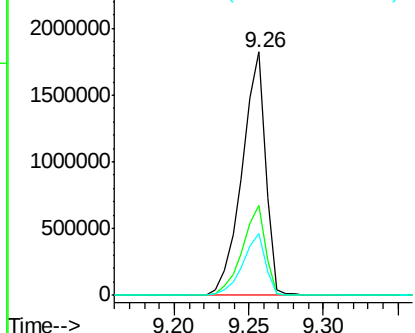
#45  
 2-Fluorobiphenyl  
 Concen: 96.854 ng  
 RT: 9.26 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: BF115496.D  
 Acq: 11 Jul 2019 12:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121224BL

Tot Ion:172 Resp: 2005628  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 29.8 44.8  
 170 25.3 20.0 30.0

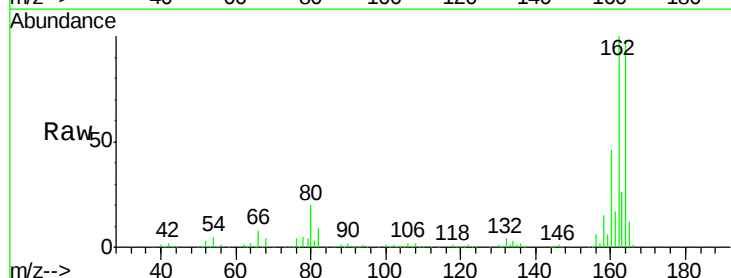


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

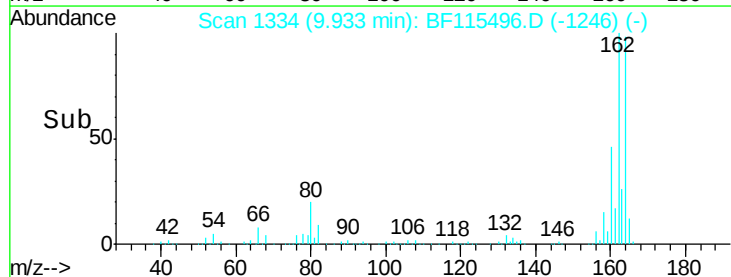
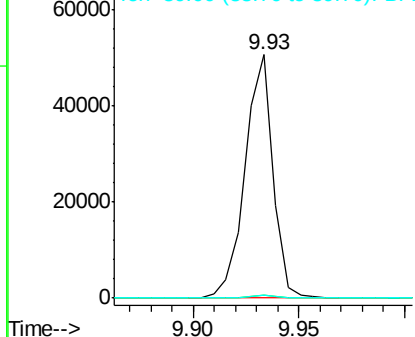


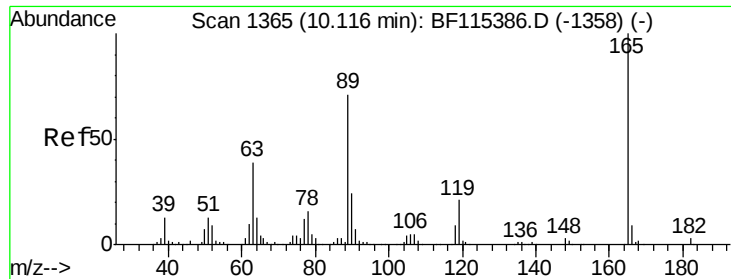
#51  
 2,6-Dinitrotoluene  
 Concen: 7.840 ng  
 RT: 9.93 min Scan# 1334  
 Delta R.T. 0.22 min  
 Lab File: BF115496.D  
 Acq: 11 Jul 2019 12:48

Tgt Ion:165 Resp: 46375  
 Ion Ratio Lower Upper  
 165 100  
 63 1.0 39.7 59.5#  
 89 1.4 42.8 64.2#



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

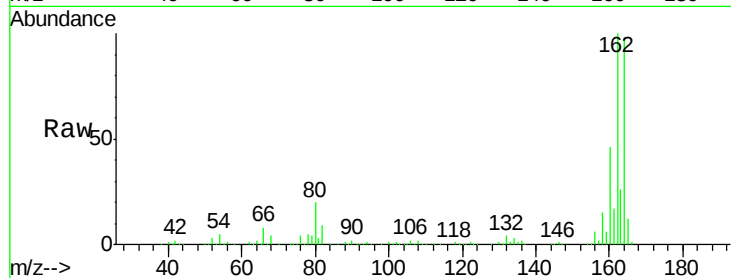




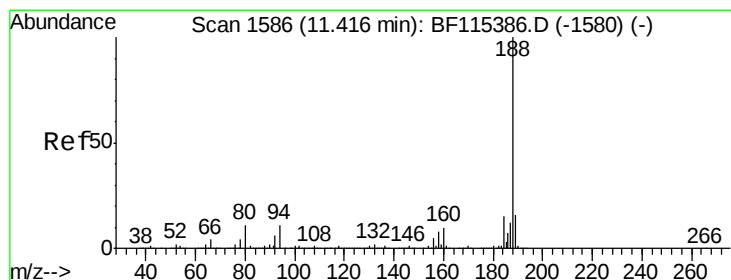
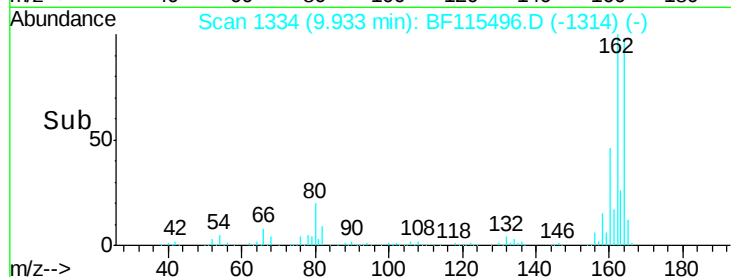
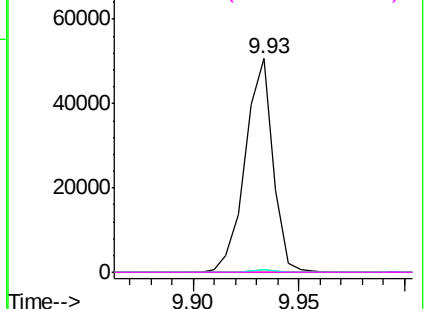
#57  
 2,4-Dinitrotoluene  
 Concen: 6.169 ng  
 RT: 9.93 min Scan# 1334  
 Delta R.T. -0.18 min  
 Lab File: BF115496.D  
 Acq: 11 Jul 2019 12:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121224BL

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 46375      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 1.0   | 33.0 49.4# |
| 89          | 1.4   | 58.5 87.7# |
| 182         | 0.0   | 2.1 3.1#   |

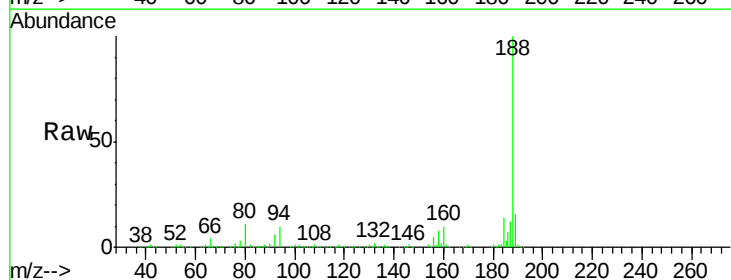


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

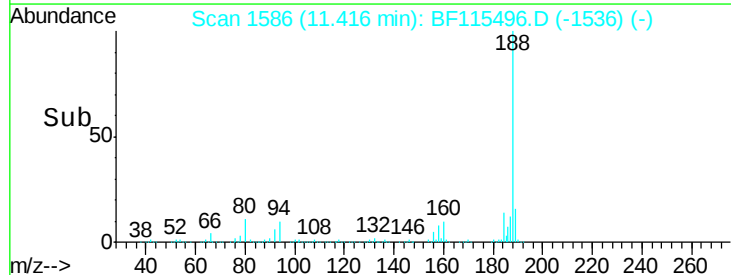
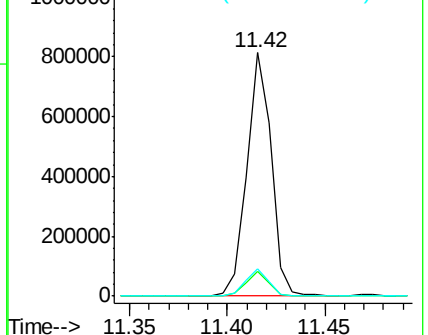


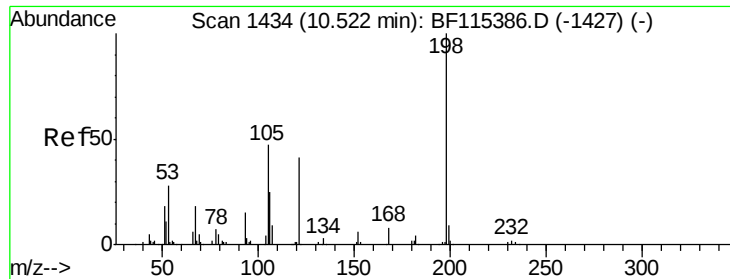
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.42 min Scan# 1586  
 Delta R.T. -0.01 min  
 Lab File: BF115496.D  
 Acq: 11 Jul 2019 12:48

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 706496   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 10.4  | 7.8 11.8 |
| 80          | 11.2  | 8.4 12.6 |



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: 8.071 ng

RT: 10.72 min Scan# 1468

Delta R.T. 0.19 min

Lab File: BF115496.D

Acq: 11 Jul 2019 12:48

Instrument :

BNA\_F

ClientSampleId :

PB121224BL

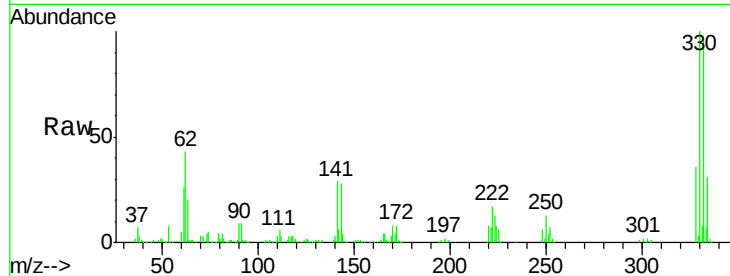
Tot Ion:198 Resp: 1026

Ion Ratio Lower Upper

198 100

51 152.8 20.7 60.7#

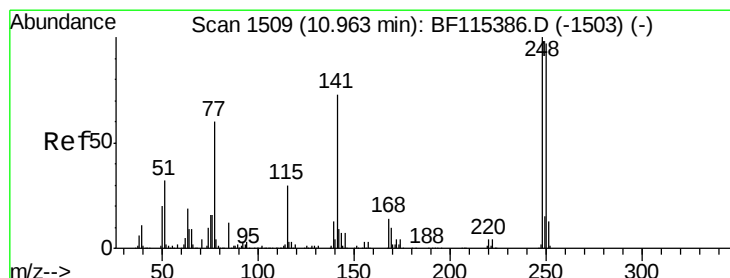
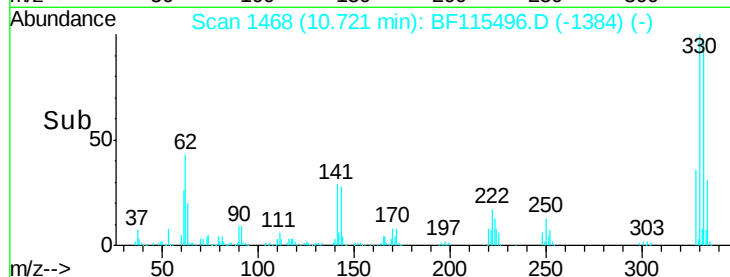
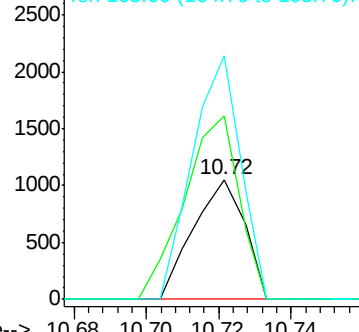
105 203.3 25.3 65.3#



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: 4.064 ng

RT: 10.72 min Scan# 1468

Delta R.T. -0.25 min

Lab File: BF115496.D

Acq: 11 Jul 2019 12:48

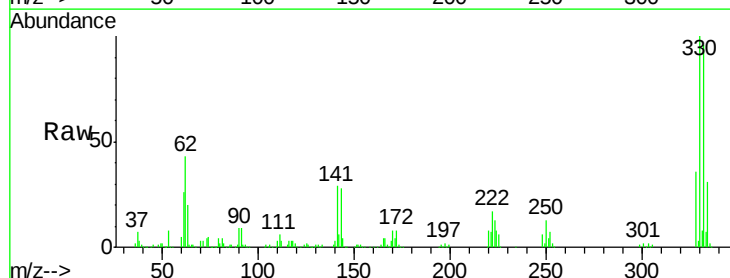
Tgt Ion:248 Resp: 32215

Ion Ratio Lower Upper

248 100

250 202.0 78.3 117.5#

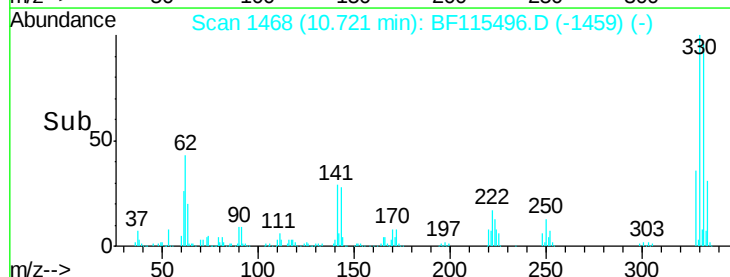
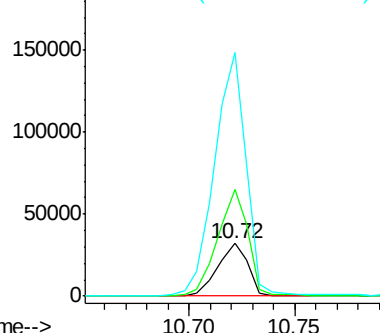
141 463.1 52.2 78.2#

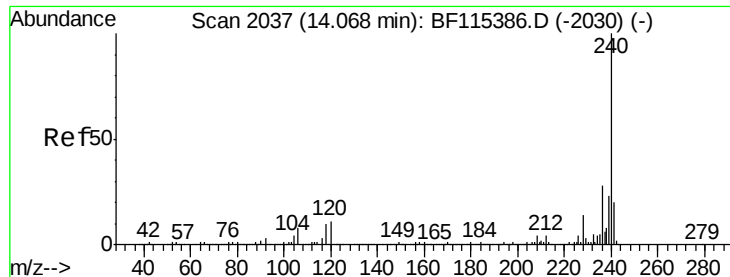


Abundance Ion 248.00 (247.70 to 248.70): E

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: 14.05 min Scan# 2034

Delta R.T. -0.02 min

Lab File: BF115496.D

Acq: 11 Jul 2019 12:48

Instrument :

BNA\_F

ClientSampleId :

PB121224BL

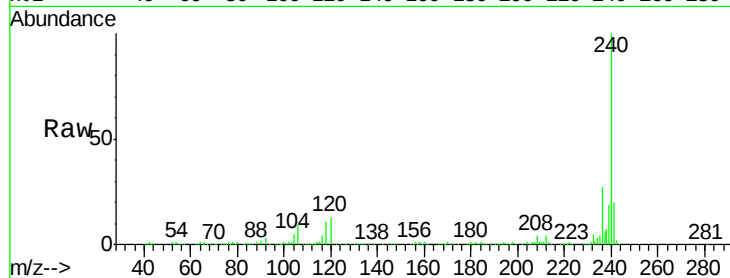
Tot Ion:240 Resp: 504521

Ion Ratio Lower Upper

240 100

120 13.2 10.2 15.4

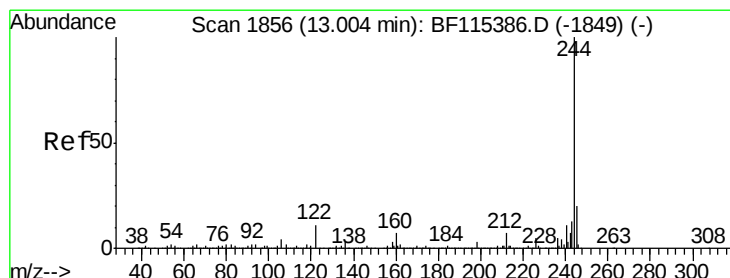
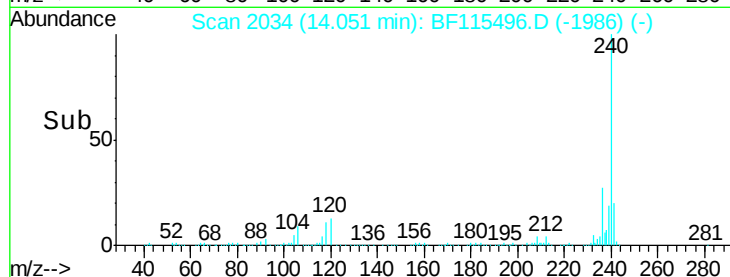
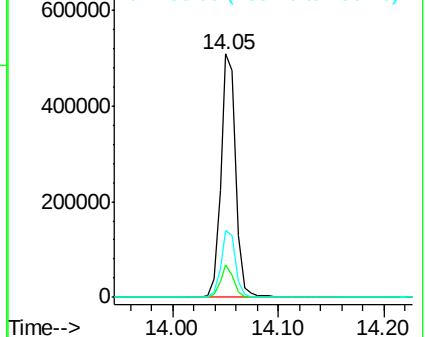
236 27.4 21.1 31.7



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



#79

Terphenyl-d14

Concen: 92.025 ng

RT: 13.01 min Scan# 1857

Delta R.T. -0.00 min

Lab File: BF115496.D

Acq: 11 Jul 2019 12:48

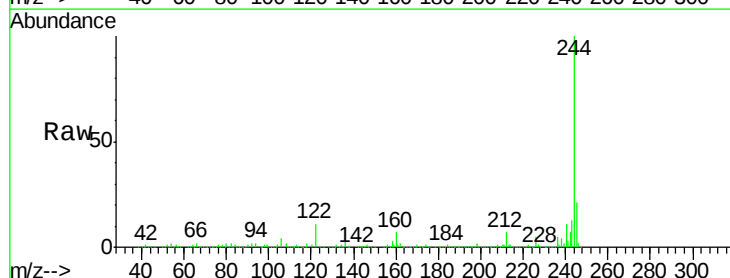
Tgt Ion:244 Resp: 2267572

Ion Ratio Lower Upper

244 100

212 7.1 5.7 8.5

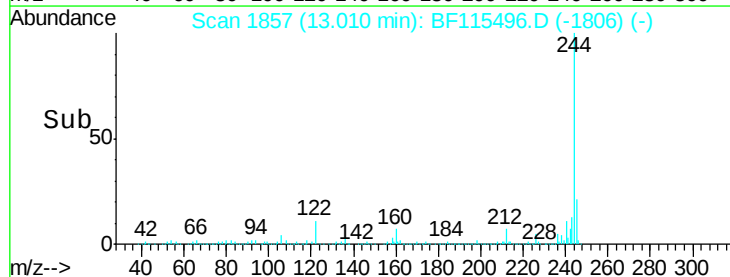
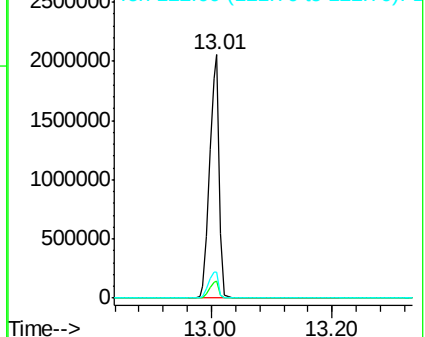
122 10.6 9.1 13.7

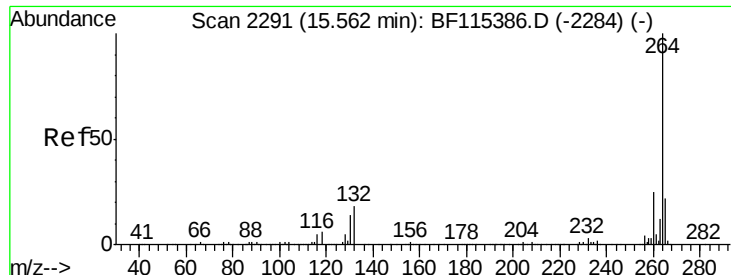


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.53 min Scan# 2286  
 Delta R.T. -0.03 min  
 Lab File: BF115496.D  
 Acq: 11 Jul 2019 12:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB121224BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 20.1  | 30.1  |
| 265     | 21.8  | 17.8  | 26.6  |

