

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
 Data File : BF115686.D  
 Acq On : 19 Jul 2019 21:48  
 Operator : HP/JU  
 Sample : K3868-10  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 20 01:42:00 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 12 14:03:52 2019  
 Response via : Initial Calibration

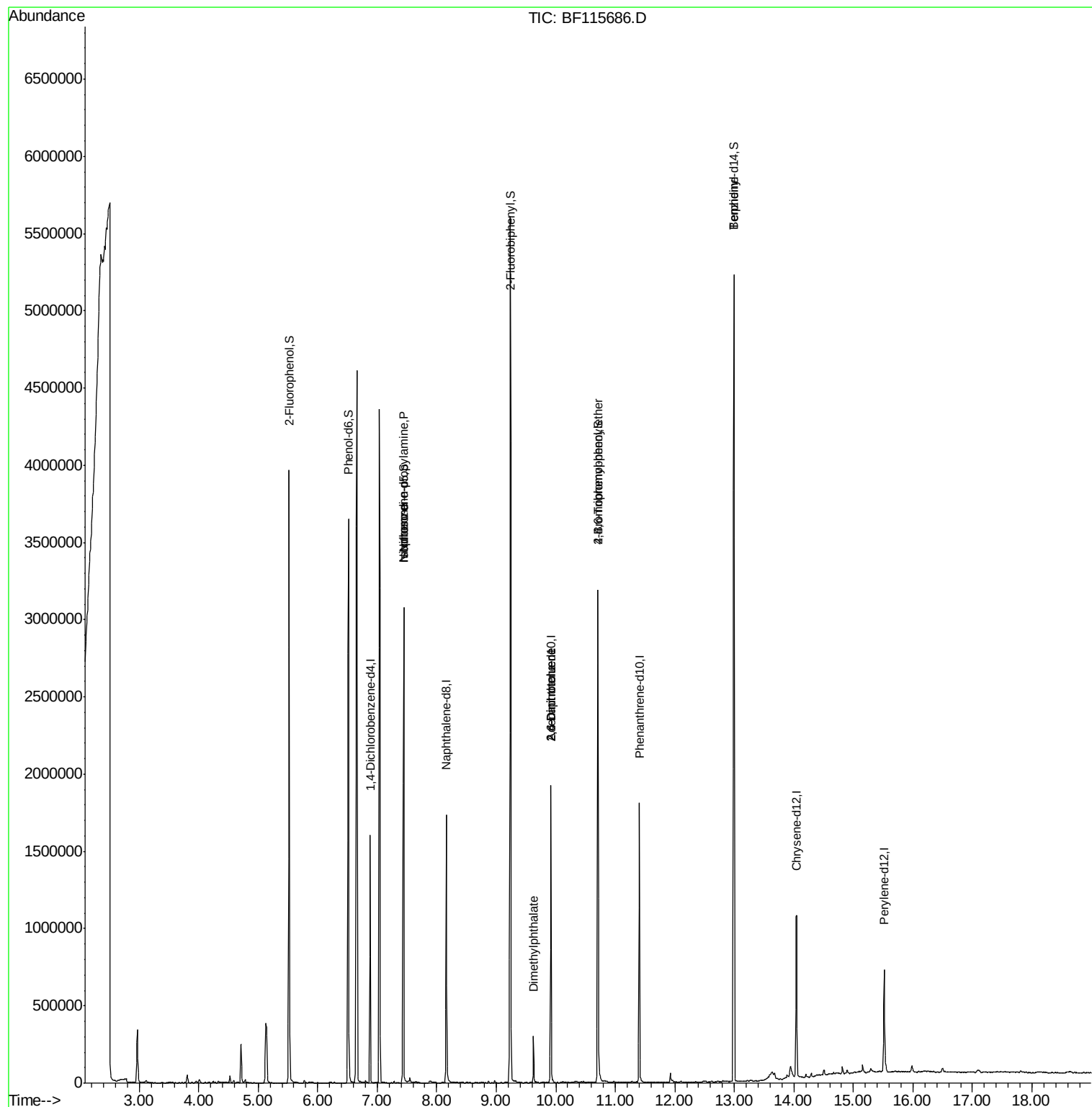
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.88  | 152  | 208655   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.16  | 136  | 809517   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.92  | 164  | 385071   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.40 | 188  | 619883   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.04 | 240  | 361412   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.52 | 264  | 319578   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.52  | 112  | 1288488  | 101.01 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.52  | 99   | 1550081  | 95.77  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 1226468  | 88.10  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.71 | 330  | 458986   | 102.12 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.24  | 172  | 2087319  | 94.88  | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.99 | 244  | 1989065  | 101.55 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 164151   | 15.550 | ng    | # 78     |
| 25) Isophorone                 | 7.45  | 82   | 1211085  | 43.473 | ng    | # 64     |
| 50) Dimethylphthalate          | 9.63  | 163  | 120548   | 4.161  | ng    | # 98     |
| 51) 2,6-Dinitrotoluene         | 9.92  | 165  | 49152    | 7.465  | ng    | # 27     |
| 57) 2,4-Dinitrotoluene         | 9.92  | 165  | 49152    | 5.762  | ng    | # 24     |
| 67) 4-Bromophenyl-phenylether  | 10.71 | 248  | 28156    | 3.975  | ng    | # 1      |
| 77) Benzidine                  | 12.99 | 184  | 25914    | 2.024  | ng    | # 94     |

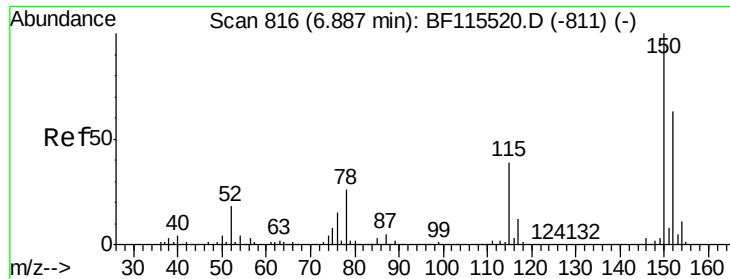
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 12 14:03:52 2019  
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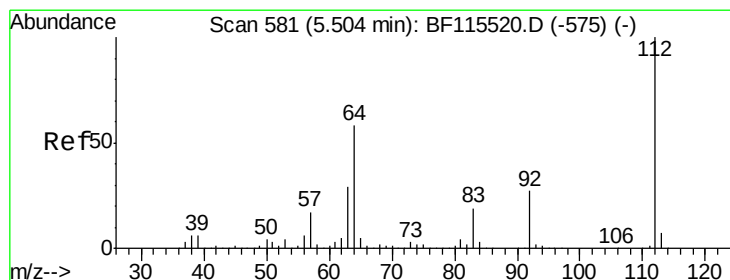
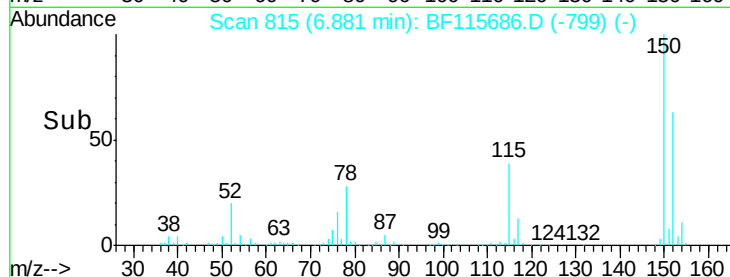
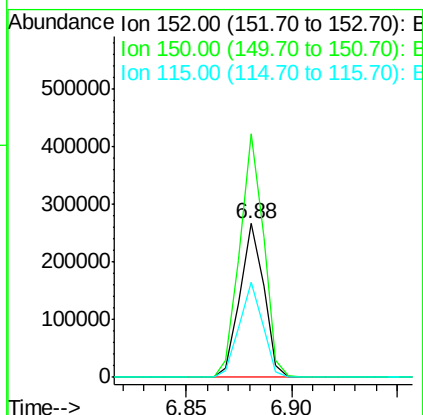
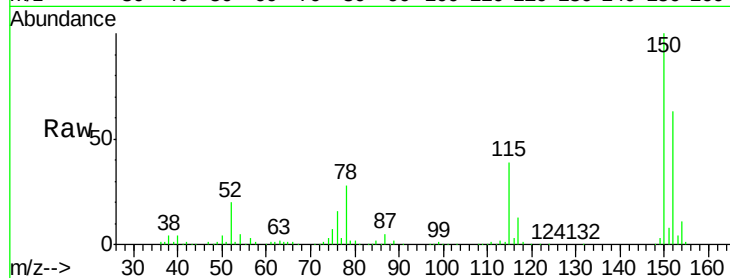


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.01 min  
Lab File: BF115686.D  
Acq: 19 Jul 2019 21:48

Instrument :  
BNA\_F  
ClientSampleId :

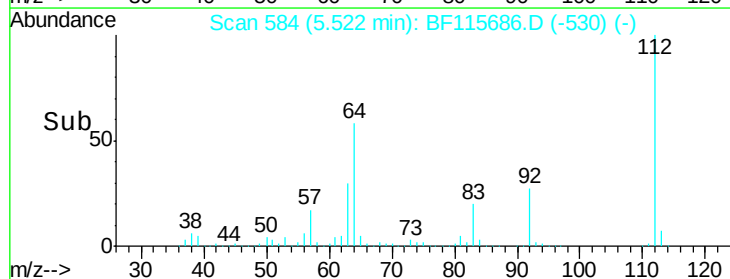
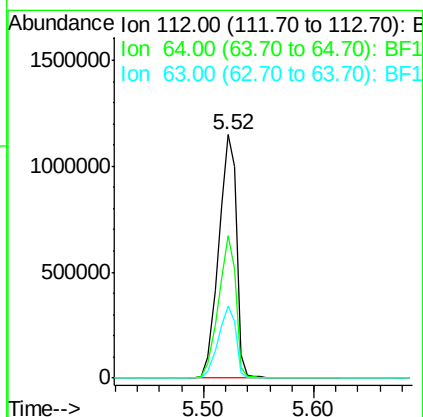
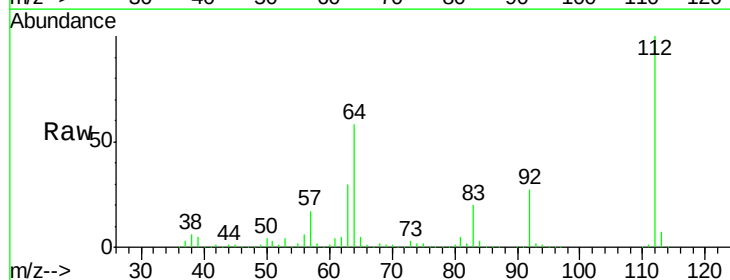
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.6 | 129.7 | 194.5 |
| 115     | 62.1  | 48.2  | 72.4  |

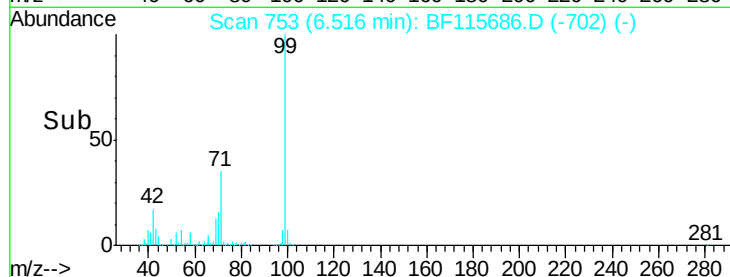
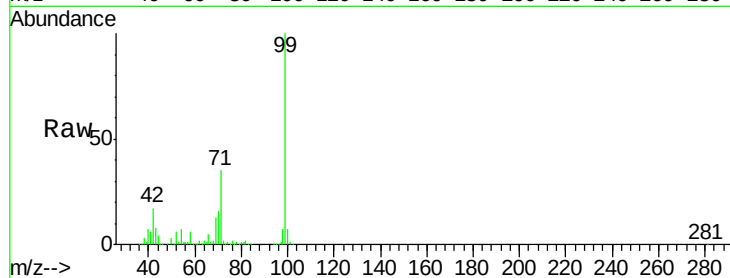
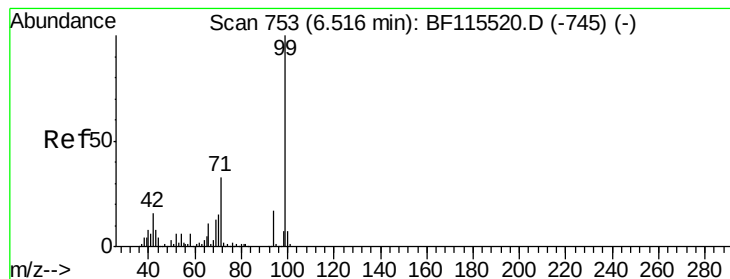


#5

2-Fluorophenol  
Concen: 101.008 ng  
RT: 5.52 min Scan# 584  
Delta R.T. 0.02 min  
Lab File: BF115686.D  
Acq: 19 Jul 2019 21:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.3  | 46.8  | 70.2  |
| 63      | 29.8  | 24.1  | 36.1  |





#7

Phenol-d6

Concen: 95.766 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.00 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

Instrument :

BNA\_F

ClientSampleId :

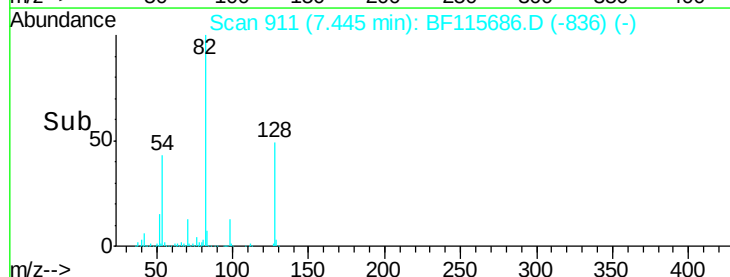
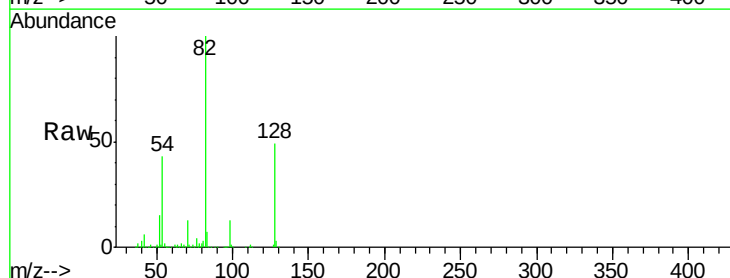
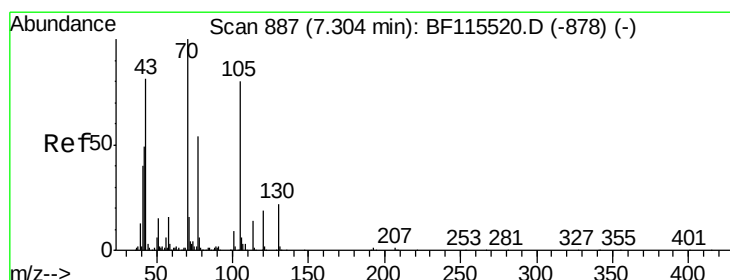
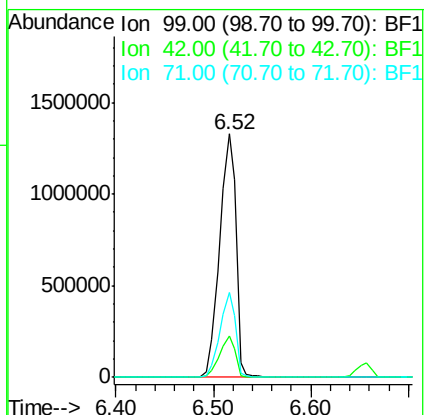
Tot Ion: 99 Resp: 1550081

Ion Ratio Lower Upper

99 100

42 17.0 13.6 20.4

71 34.6 28.5 42.7



#19

n-Nitroso-di-n-propylamine

Concen: 15.550 ng

RT: 7.45 min Scan# 911

Delta R.T. 0.14 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

Tgt Ion: 70 Resp: 164151

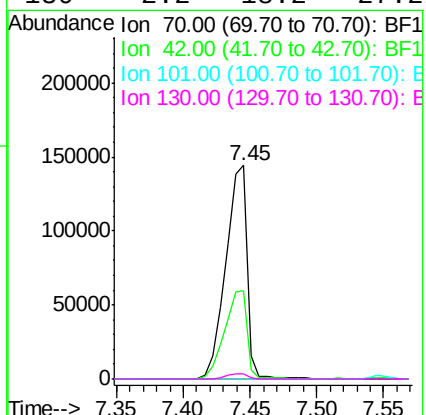
Ion Ratio Lower Upper

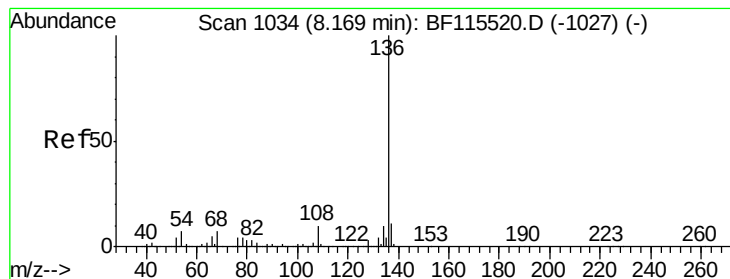
70 100

42 41.6 39.6 59.4

101 0.0 8.1 12.1#

130 2.2 18.2 27.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 809517

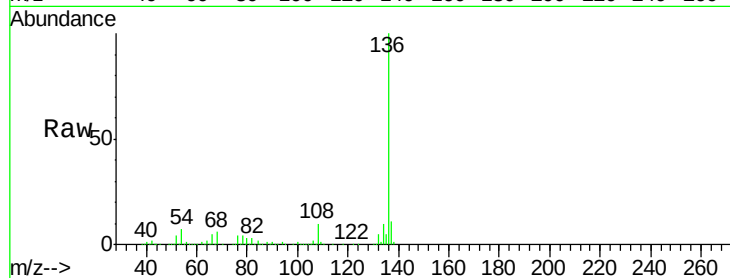
Ion Ratio Lower Upper

136 100

137 11.5 9.0 13.4

54 6.6 5.6 8.4

68 6.2 5.0 7.6

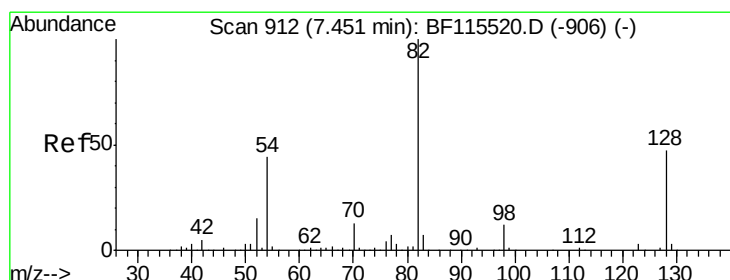
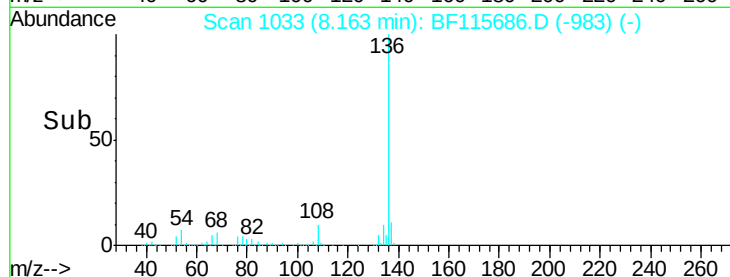
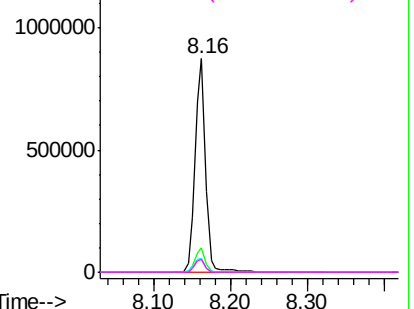


Abundance Ion 136.00 (135.70 to 136.70): E

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: 88.096 ng

RT: 7.45 min Scan# 911

Delta R.T. -0.01 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

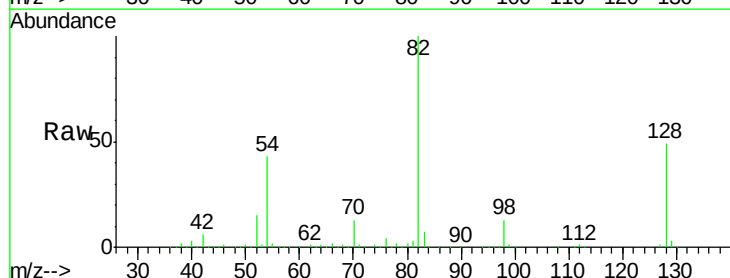
Tgt Ion: 82 Resp: 1226468

Ion Ratio Lower Upper

82 100

128 48.6 38.6 57.8

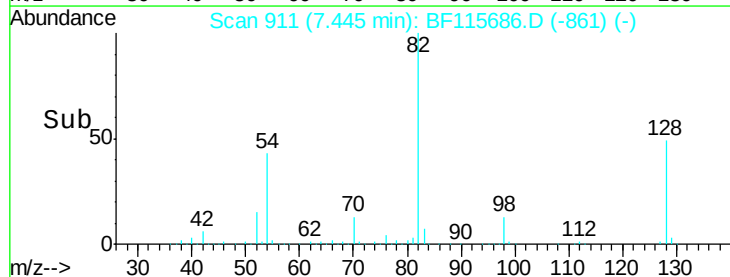
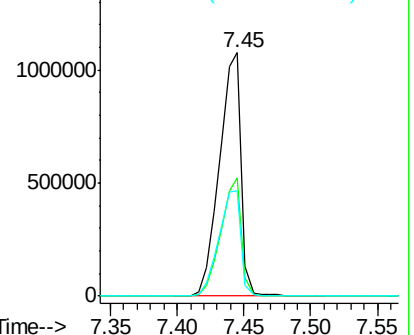
54 43.4 35.6 53.4

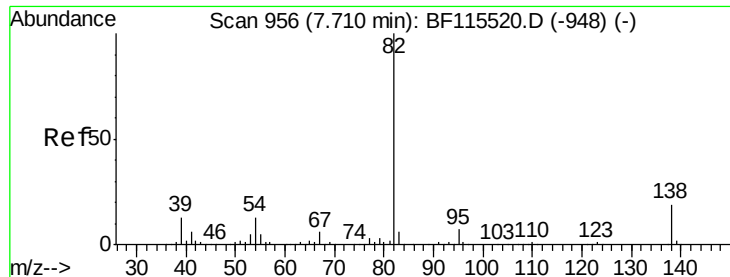


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 43.473 ng

RT: 7.45 min Scan# 911

Delta R.T. -0.26 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

Instrument :

BNA\_F

ClientSampled :

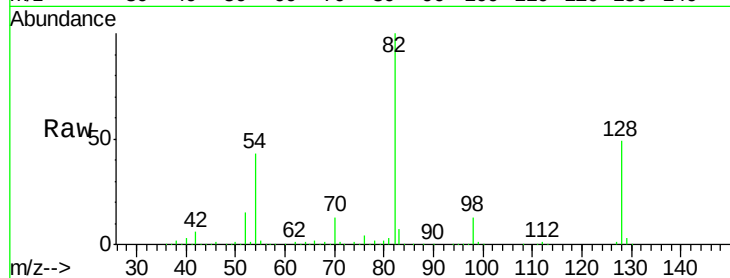
Tot Ion: 82 Resp: 1211085

Ion Ratio Lower Upper

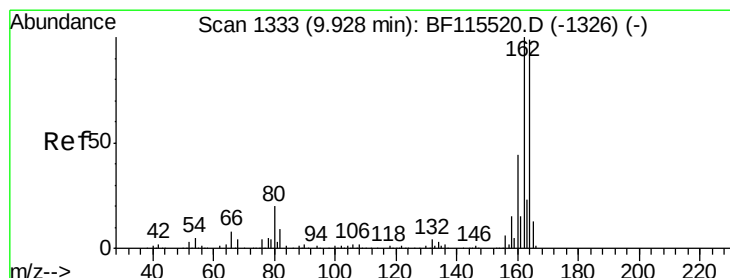
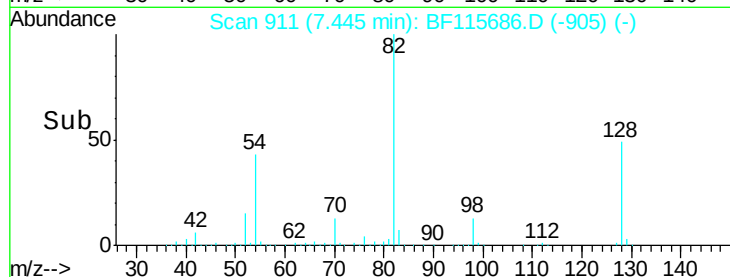
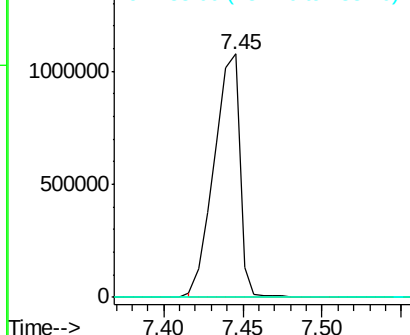
82 100

95 0.0 5.5 8.3#

138 0.0 14.9 22.3#



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: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

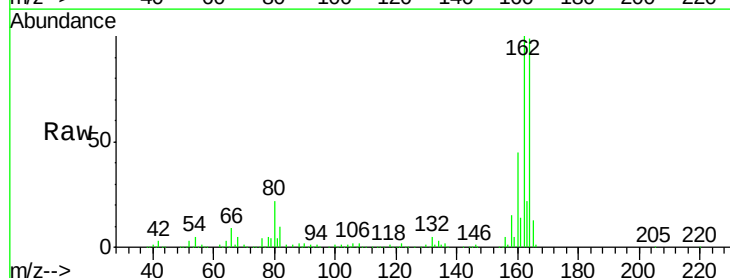
Tgt Ion: 164 Resp: 385071

Ion Ratio Lower Upper

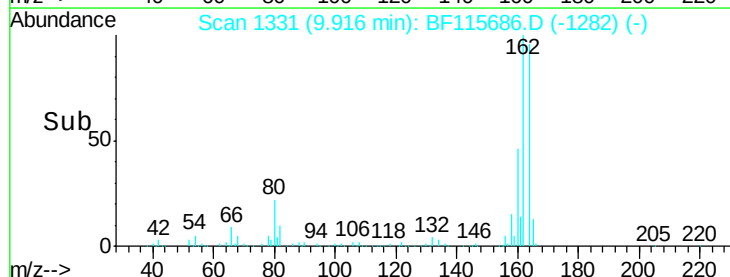
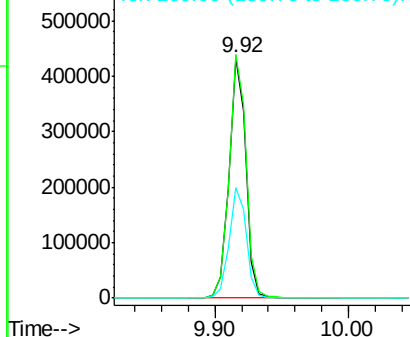
164 100

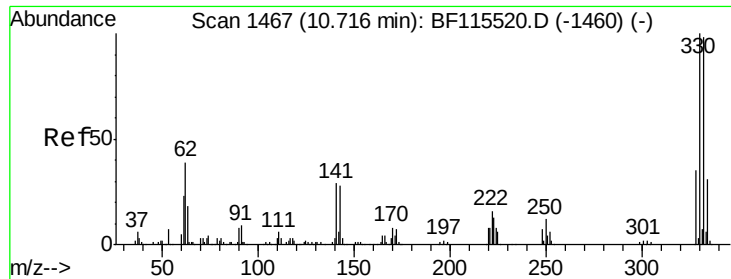
162 101.3 82.9 124.3

160 46.0 36.8 55.2



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

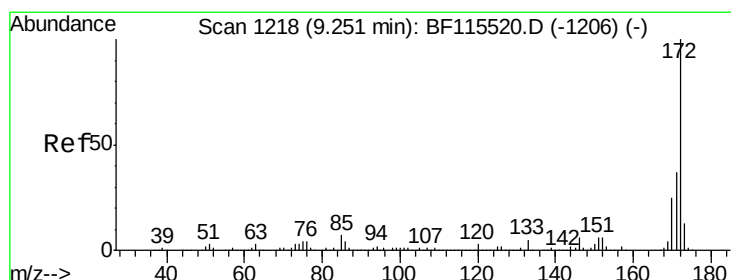
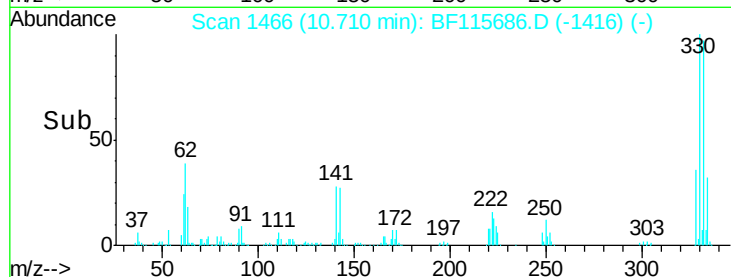
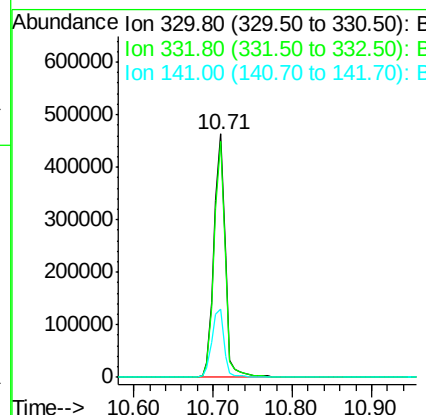
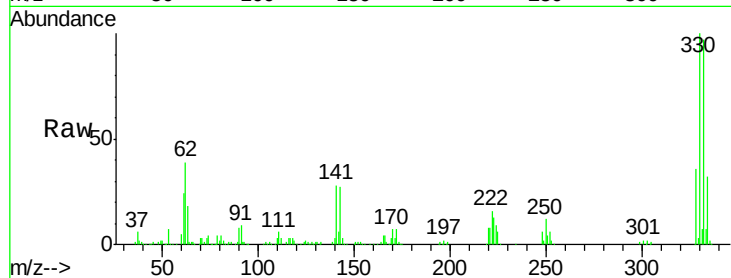




#42  
 2,4,6-Tribromophenol  
 Concen: 102.117 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.01 min  
 Lab File: BF115686.D  
 Acq: 19 Jul 2019 21:48

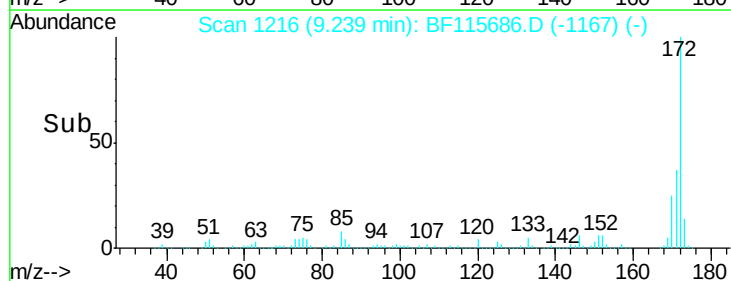
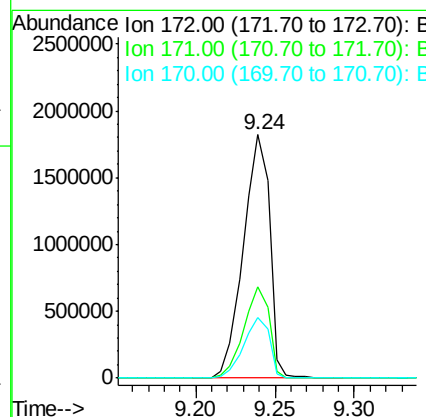
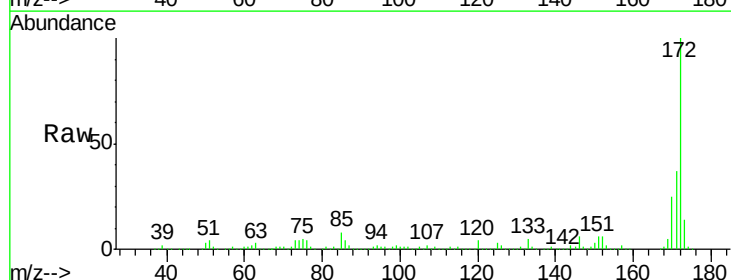
Instrument :  
 BNA\_F  
 ClientSampleId :

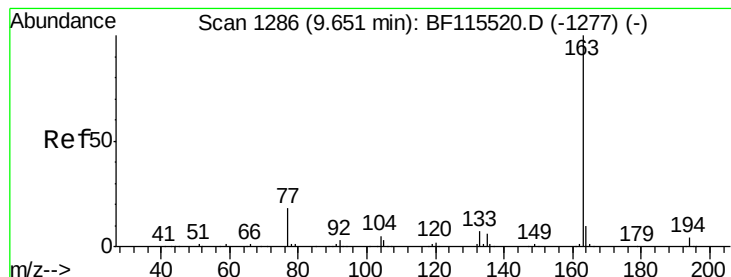
Tot Ion:330 Resp: 458986  
 Ion Ratio Lower Upper  
 330 100  
 332 95.3 77.4 116.2  
 141 30.9 22.4 33.6



#45  
 2-Fluorobiphenyl  
 Concen: 94.876 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF115686.D  
 Acq: 19 Jul 2019 21:48

Tgt Ion:172 Resp: 2087319  
 Ion Ratio Lower Upper  
 172 100  
 171 37.2 30.6 46.0  
 170 24.9 20.5 30.7





#50

Dimethylphthalate

Concen: 4.161 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

Instrument :

BNA\_F

ClientSampleId :

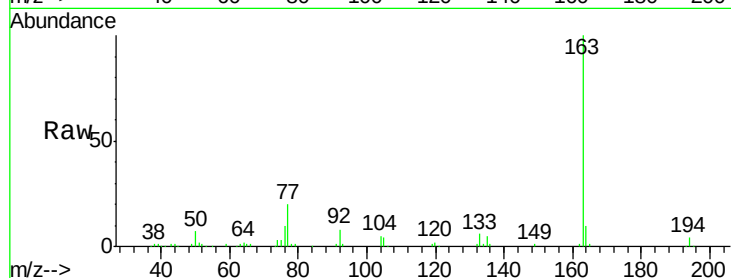
Tot Ion:163 Resp: 120548

Ion Ratio Lower Upper

163 100

194 3.6 3.3 4.9

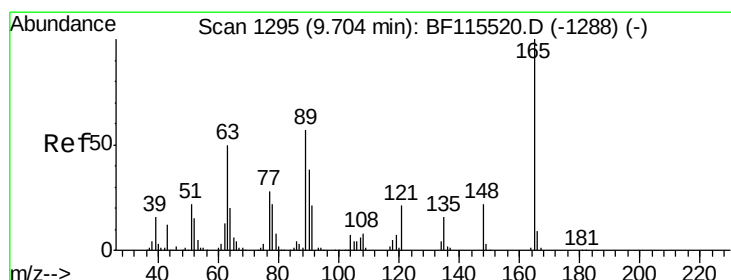
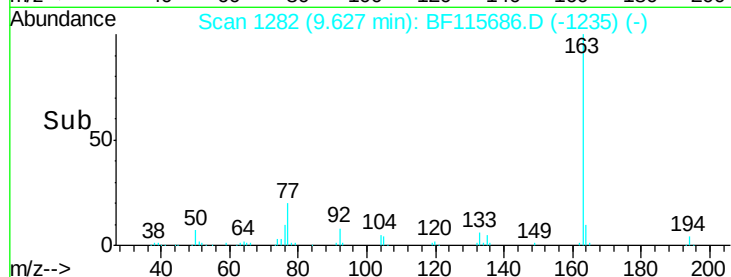
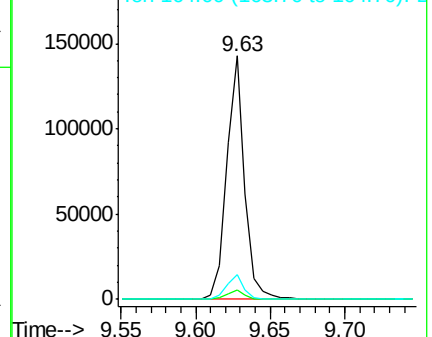
164 10.1 8.7 13.1



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: 7.465 ng

RT: 9.92 min Scan# 1331

Delta R.T. 0.21 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

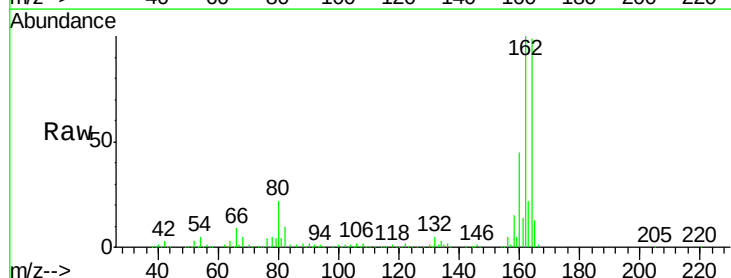
Tgt Ion:165 Resp: 49152

Ion Ratio Lower Upper

165 100

63 1.3 40.6 61.0#

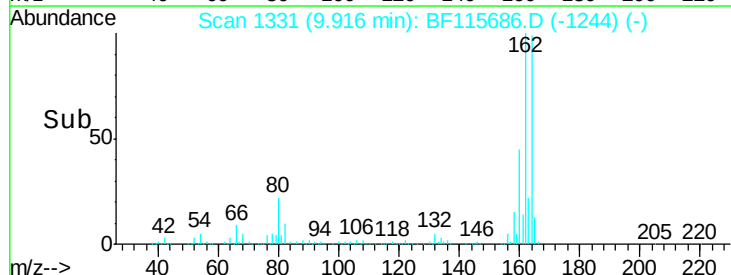
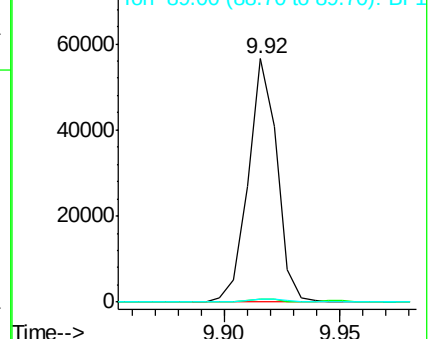
89 1.2 43.9 65.9#



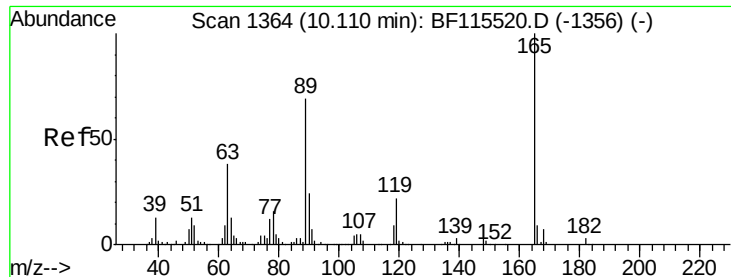
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1







#57

2,4-Dinitrotoluene

Concen: 5.762 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.19 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 49152

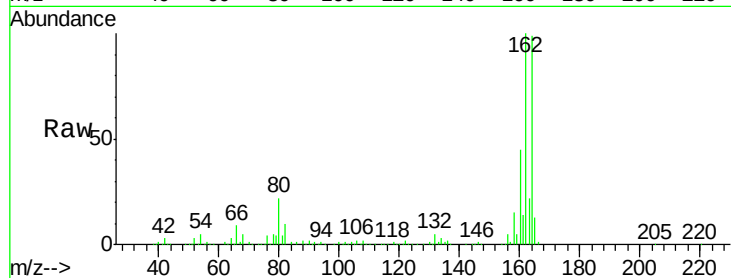
Ion Ratio Lower Upper

165 100

63 1.3 34.9 52.3#

89 1.2 57.5 86.3#

182 0.0 2.2 3.4#

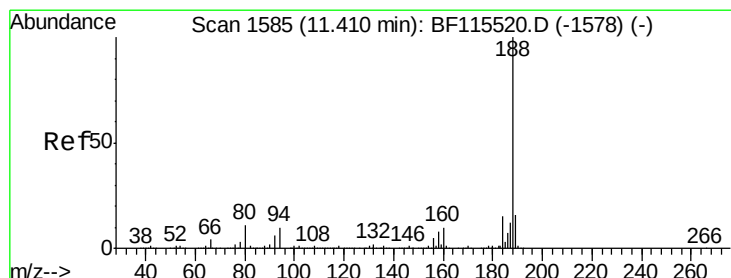
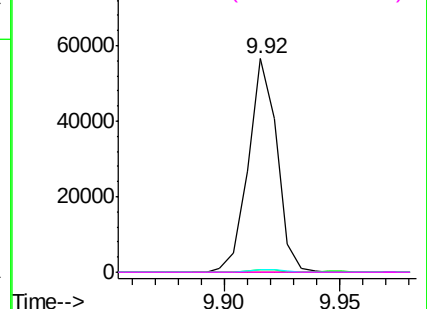
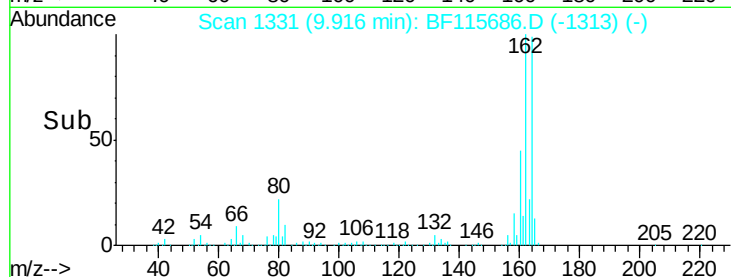


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

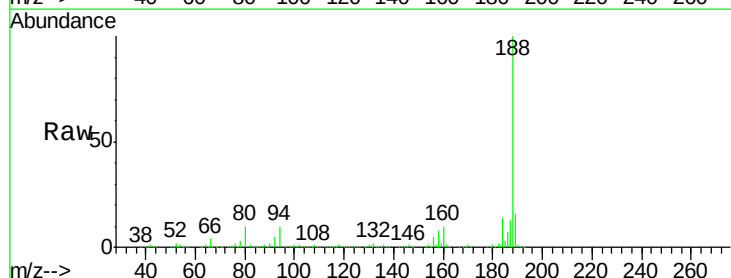
Tgt Ion:188 Resp: 619883

Ion Ratio Lower Upper

188 100

94 9.8 7.8 11.6

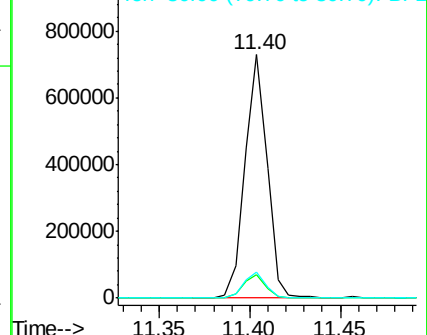
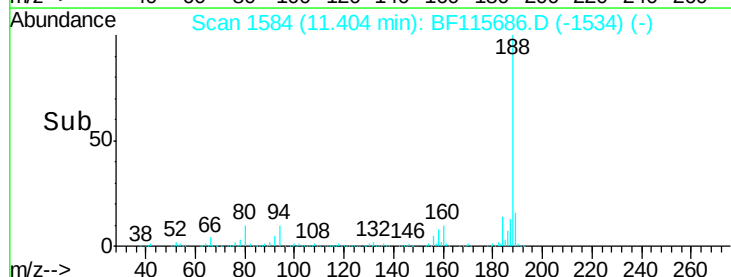
80 10.5 8.6 13.0

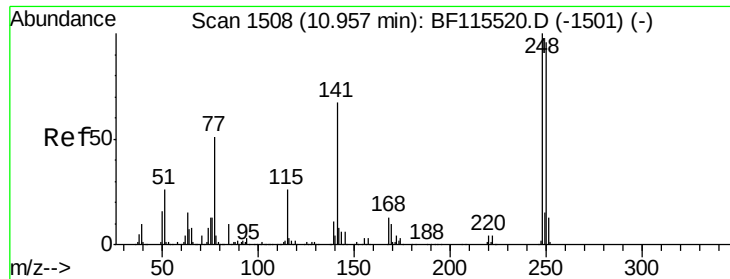


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

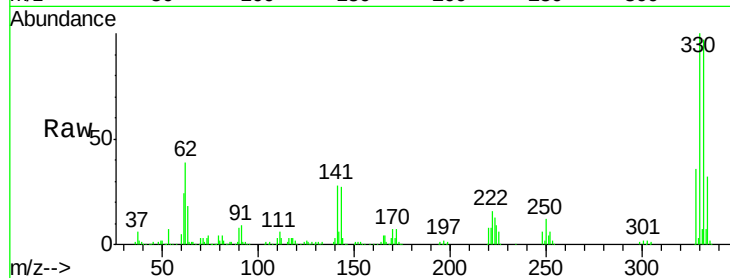




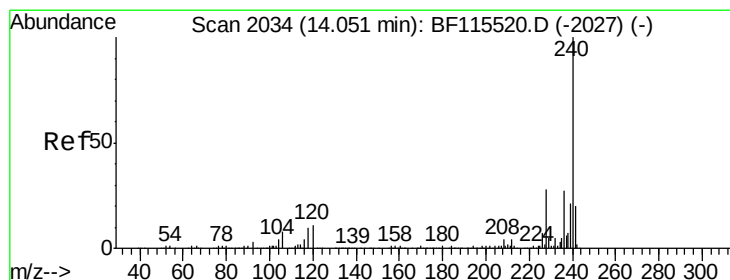
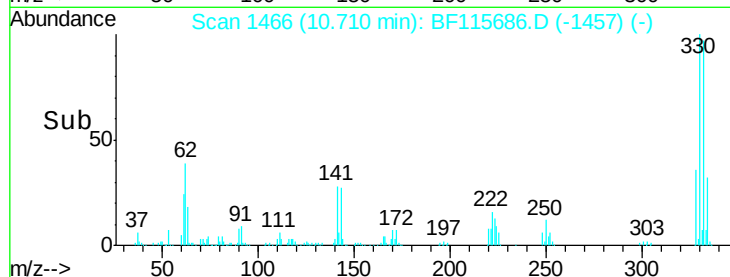
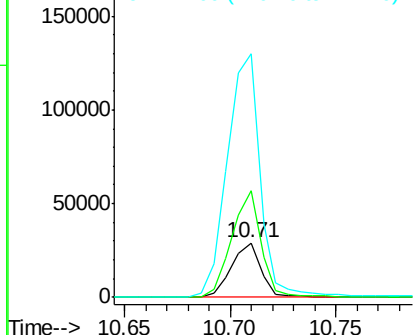
#67  
4-Bromophenyl-phenylether  
Concen: 3.975 ng  
RT: 10.71 min Scan# 1466  
Delta R.T. -0.25 min  
Lab File: BF115686.D  
Acq: 19 Jul 2019 21:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 28156  
Ion Ratio Lower Upper  
248 100  
250 196.6 78.0 117.0#  
141 449.7 57.7 86.5#

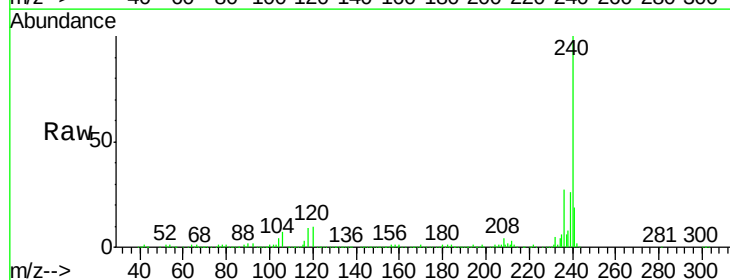


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

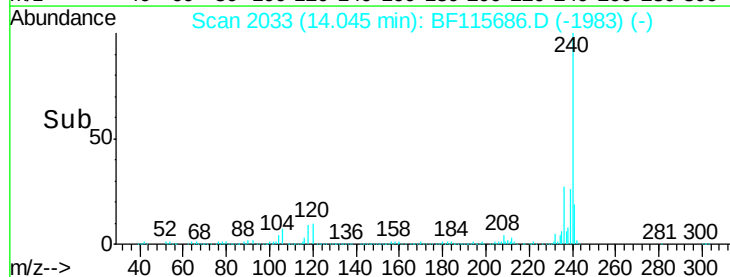
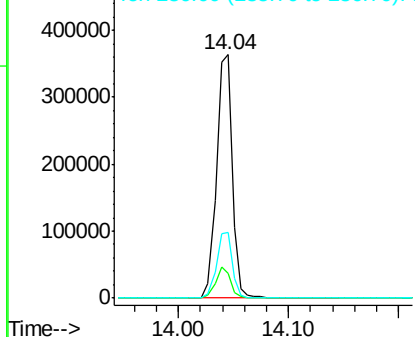


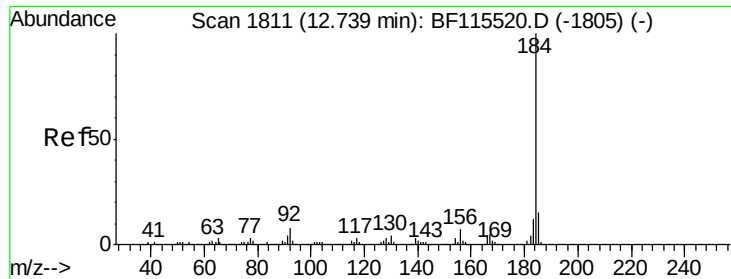
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.04 min Scan# 2033  
Delta R.T. -0.01 min  
Lab File: BF115686.D  
Acq: 19 Jul 2019 21:48

Tgt Ion:240 Resp: 361412  
Ion Ratio Lower Upper  
240 100  
120 10.2 8.6 13.0  
236 27.1 21.3 31.9



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: 2.024 ng

RT: 12.99 min Scan# 1854

Delta R.T. 0.25 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

Instrument :

BNA\_F

ClientSampleId :

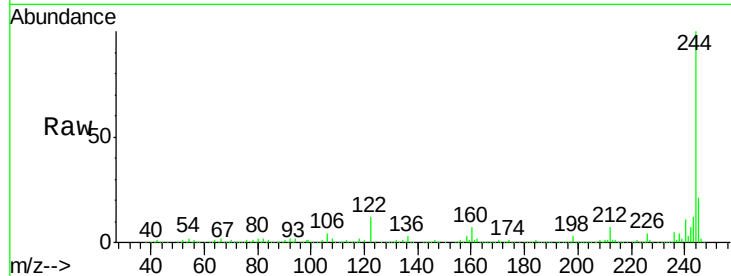
Tot Ion:184 Resp: 25914

Ion Ratio Lower Upper

184 100

185 16.3 12.0 18.0

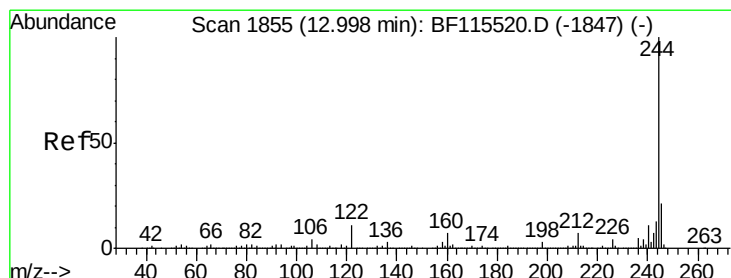
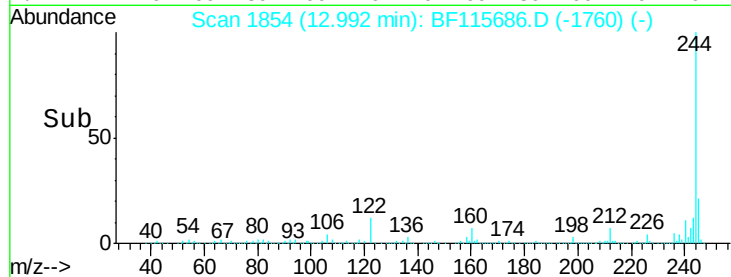
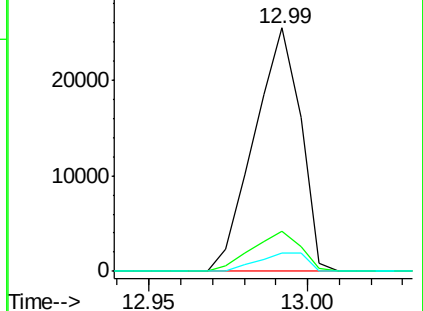
183 7.7 9.3 13.9#



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: 101.551 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF115686.D

Acq: 19 Jul 2019 21:48

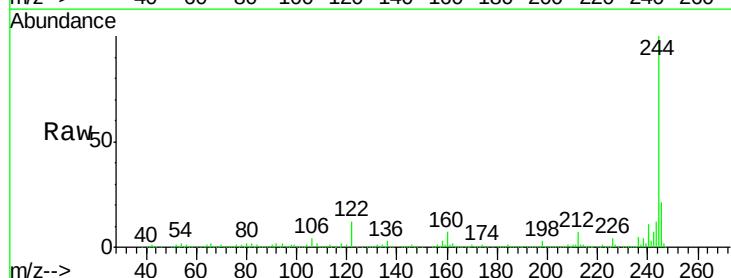
Tgt Ion:244 Resp: 1989065

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

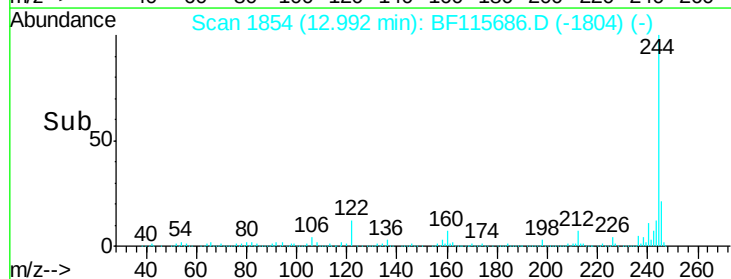
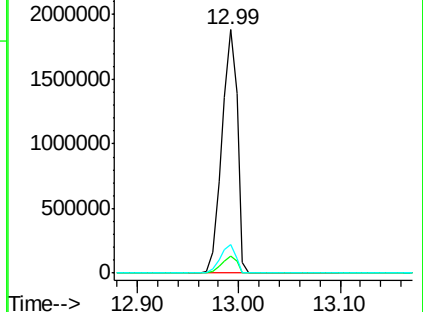
122 11.6 8.6 12.8

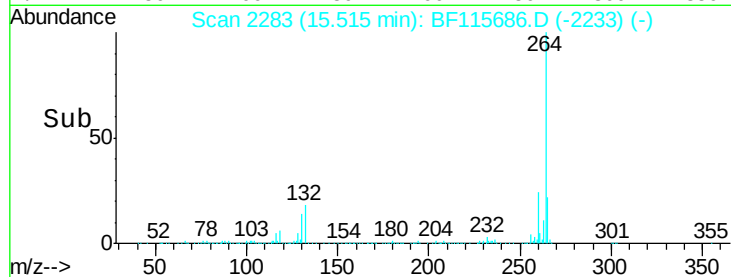
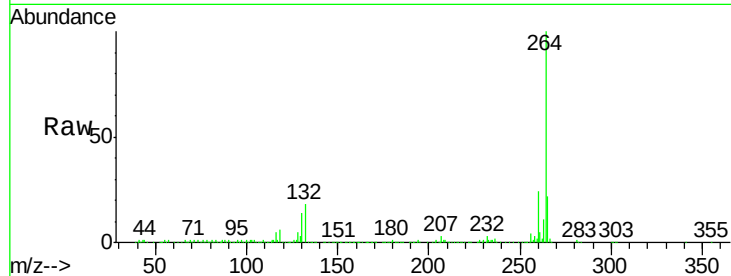
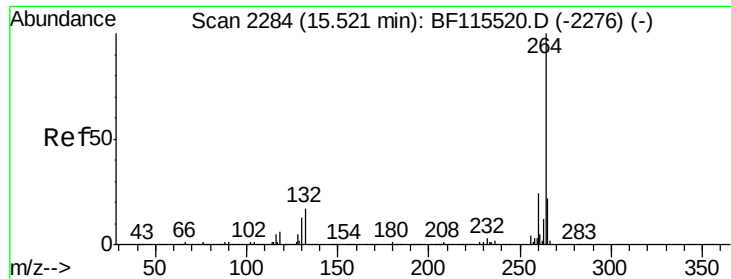


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.52 min Scan# 2283  
 Delta R.T. -0.01 min  
 Lab File: BF115686.D  
 Acq: 19 Jul 2019 21:48

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.8  | 29.8  |
| 265     | 21.9  | 17.7  | 26.5  |

