

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
 Data File : BF115687.D  
 Acq On : 19 Jul 2019 22:16  
 Operator : HP/JU  
 Sample : K3868-12  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 20 03:59:49 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  | 227746   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 902971   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.92  | 164  | 439819   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.40 | 188  | 733724   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.04 | 240  | 416552   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.52 | 264  | 366761   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.53  | 112  | 1474245  | 105.88 | ng    | 0.02     |
| 7) Phenol-d6                | 6.52  | 99   | 1714585  | 97.05  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 1406770  | 90.59  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.71 | 330  | 582119   | 113.39 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.24  | 172  | 2396011  | 95.35  | ng    | -0.01    |
| 79) Terphenyl-d14           | 13.00 | 244  | 2370781  | 105.02 | ng    | 0.00     |

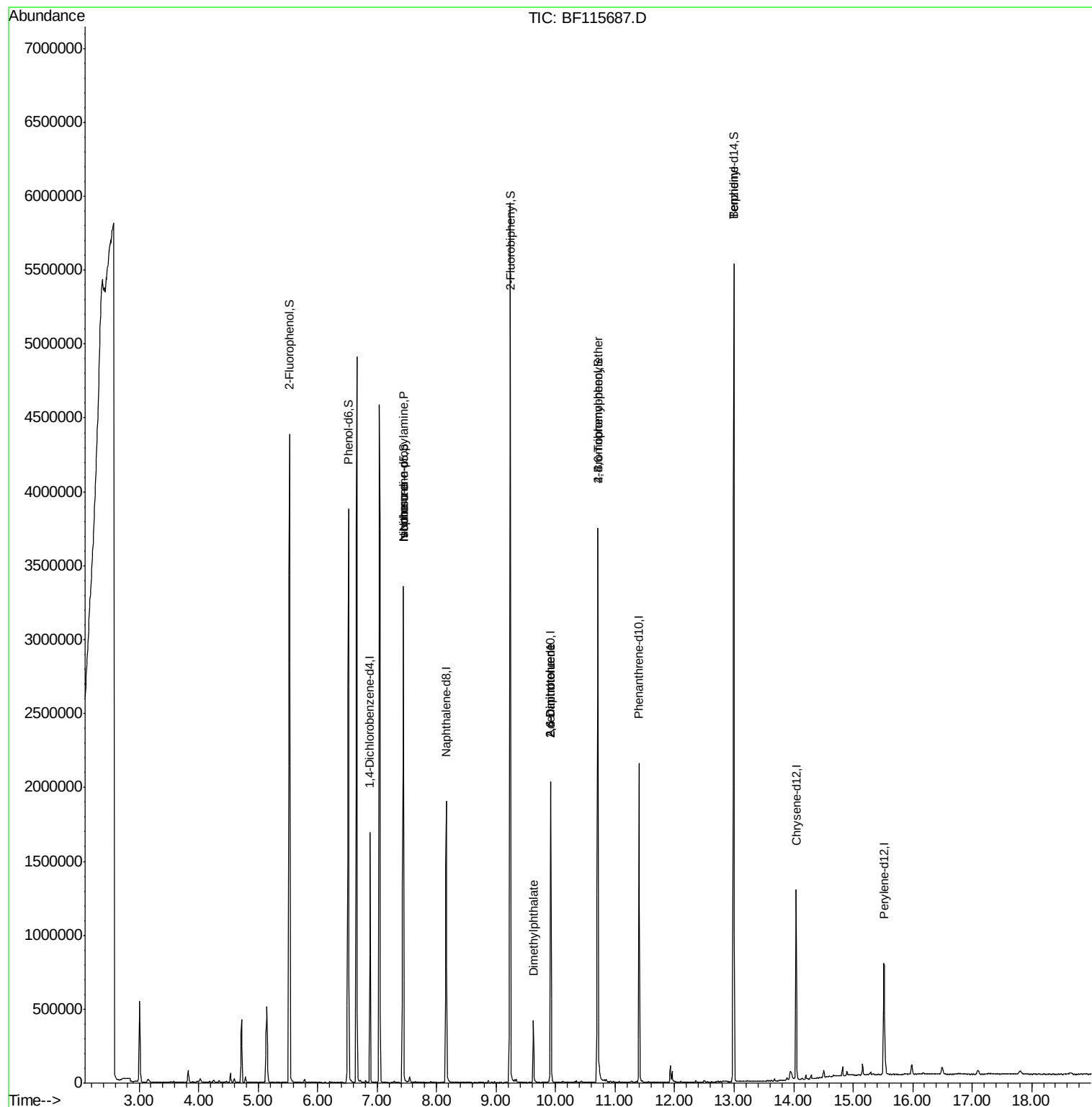
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 190921   | 16.570 | ng    | # 77   |
| 25) Isophorone                 | 7.45  | 82   | 1385049  | 44.572 | ng    | # 64   |
| 50) Dimethylphthalate          | 9.63  | 163  | 168766   | 5.100  | ng    | # 98   |
| 51) 2,6-Dinitrotoluene         | 9.92  | 165  | 57149    | 7.600  | ng    | # 27   |
| 57) 2,4-Dinitrotoluene         | 9.92  | 165  | 57149    | 5.866  | ng    | # 24   |
| 67) 4-Bromophenyl-phenylether  | 10.71 | 248  | 35212    | 4.200  | ng    | # 1    |
| 77) Benzidine                  | 12.99 | 184  | 30716    | 2.082  | ng    | # 94   |

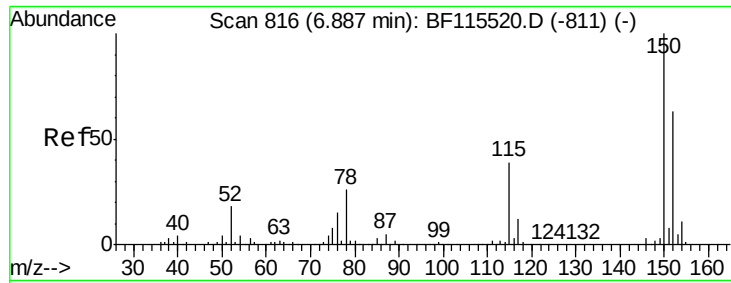
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

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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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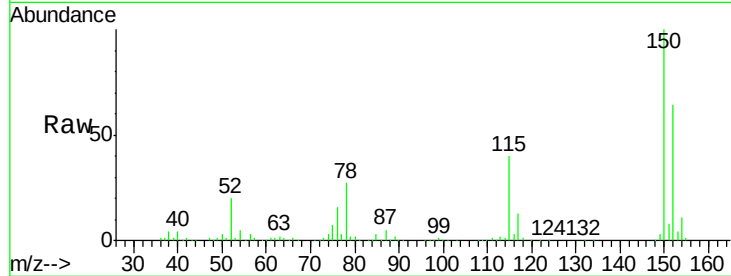


#1

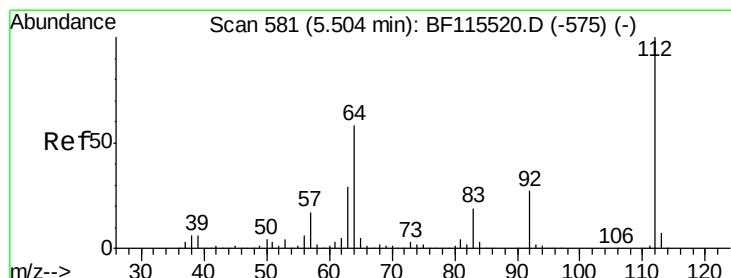
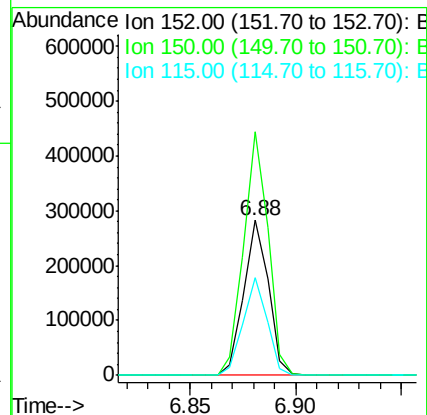
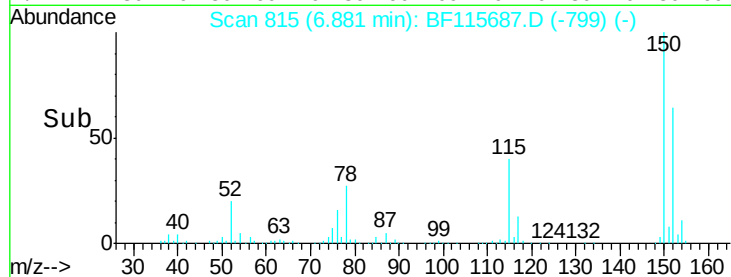
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.01 min  
Lab File: BF115687.D  
Acq: 19 Jul 2019 22:16

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 227746  
Ion Ratio Lower Upper  
152 100  
150 156.8 129.7 194.5  
115 62.6 48.2 72.4



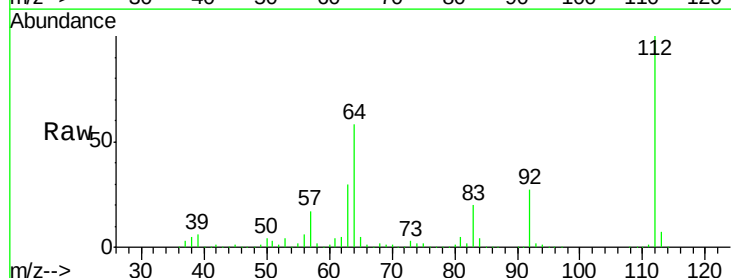
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



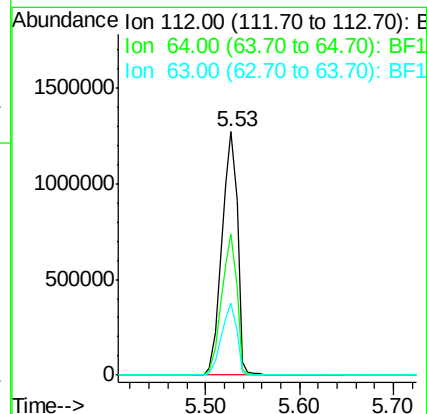
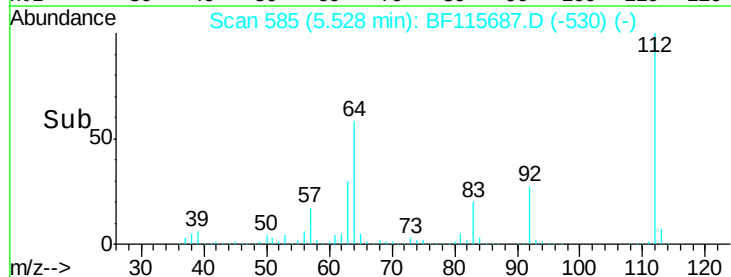
#5

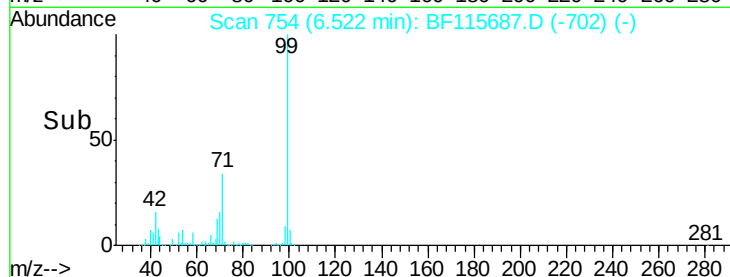
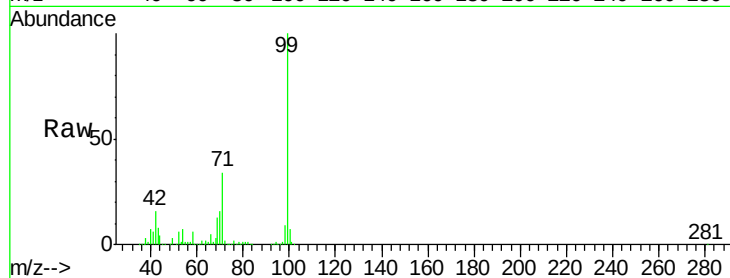
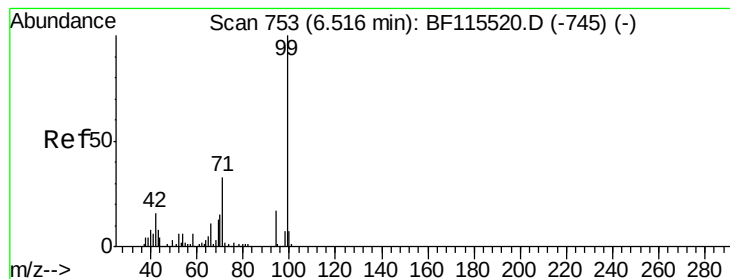
2-Fluorophenol  
Concen: 105.883 ng  
RT: 5.53 min Scan# 585  
Delta R.T. 0.02 min  
Lab File: BF115687.D  
Acq: 19 Jul 2019 22:16

Tgt Ion:112 Resp: 1474245  
Ion Ratio Lower Upper  
112 100  
64 58.1 46.8 70.2  
63 29.8 24.1 36.1



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: 97.049 ng

RT: 6.52 min Scan# 754

Delta R.T. 0.01 min

Lab File: BF115687.D

Acq: 19 Jul 2019 22:16

Instrument :

BNA\_F

ClientSampleId :

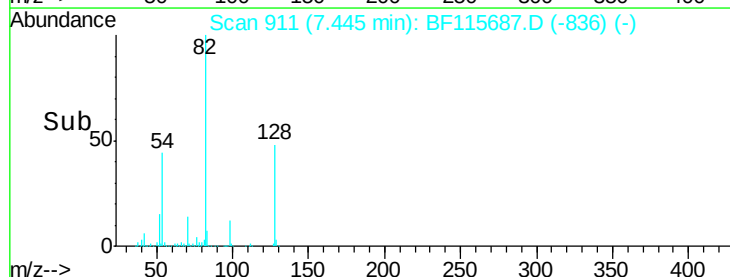
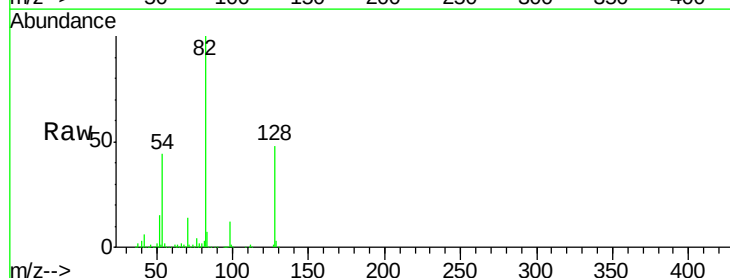
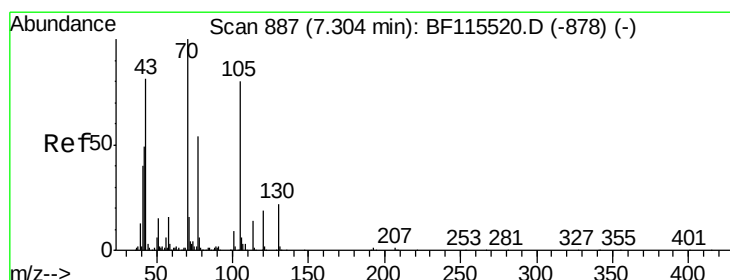
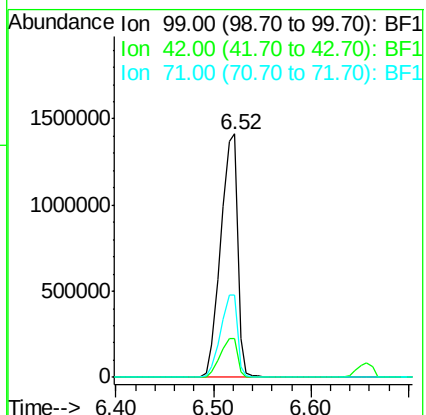
Tot Ion: 99 Resp: 1714585

Ion Ratio Lower Upper

99 100

42 16.0 13.6 20.4

71 34.0 28.5 42.7



#19

n-Nitroso-di-n-propylamine

Concen: 16.570 ng

RT: 7.45 min Scan# 911

Delta R.T. 0.14 min

Lab File: BF115687.D

Acq: 19 Jul 2019 22:16

Tgt Ion: 70 Resp: 190921

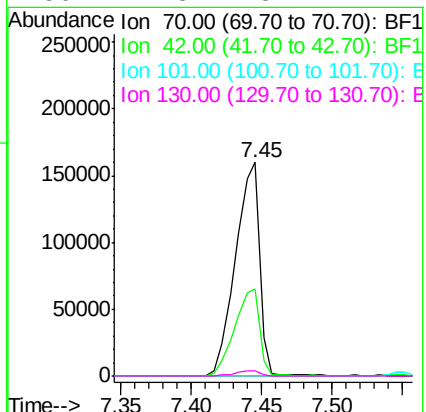
Ion Ratio Lower Upper

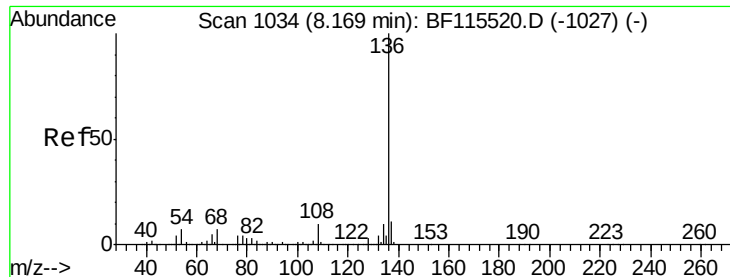
70 100

42 41.0 39.6 59.4

101 0.0 8.1 12.1#

130 2.3 18.2 27.2#

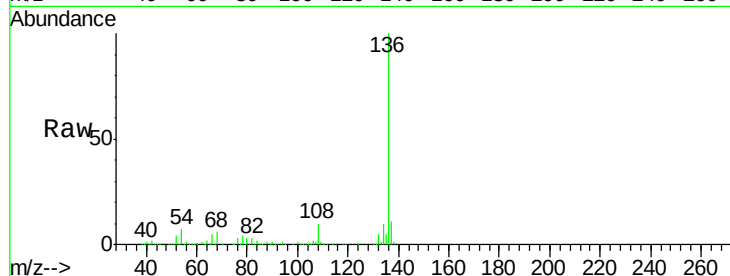




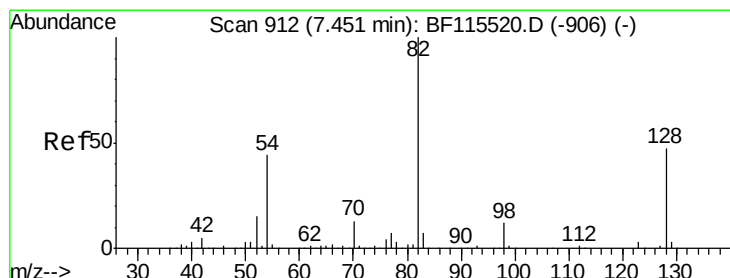
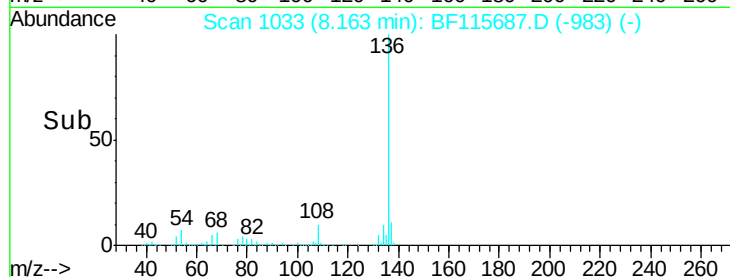
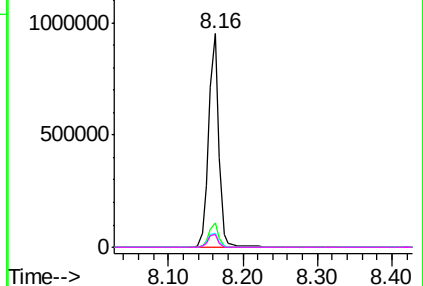
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BF115687.D  
Acq: 19 Jul 2019 22:16

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 902971      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.4  | 9.0 13.4    |
| 54          | 6.7   | 5.6 8.4     |
| 68          | 6.1   | 5.0 7.6     |

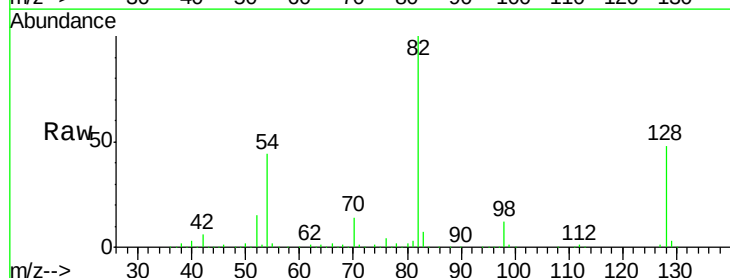


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

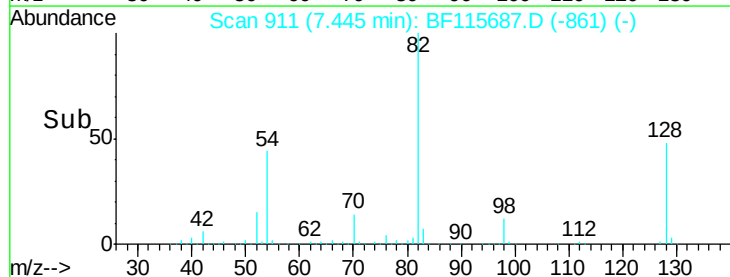
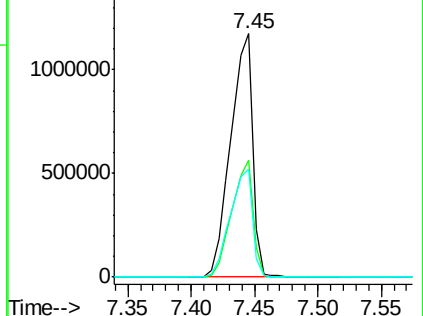


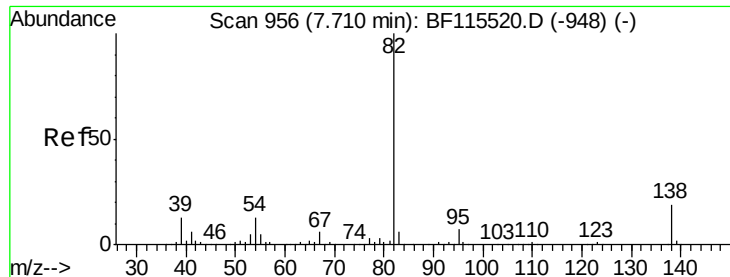
#23  
Nitrobenzene-d5  
Concen: 90.589 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: BF115687.D  
Acq: 19 Jul 2019 22:16

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 1406770     |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 47.9  | 38.6 57.8   |
| 54          | 44.1  | 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: 44.572 ng

RT: 7.45 min Scan# 911

Delta R.T. -0.26 min

Lab File: BF115687.D

Acq: 19 Jul 2019 22:16

Instrument :

BNA\_F

ClientSampleId :

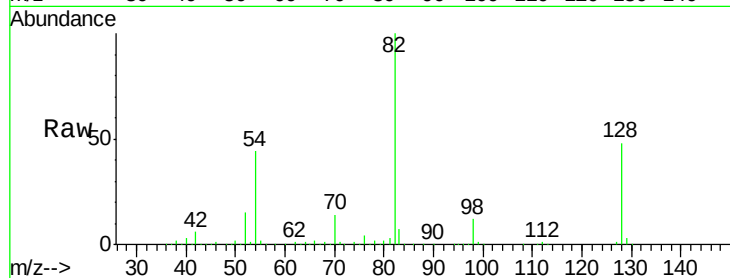
Tot Ion: 82 Resp: 1385049

Ion Ratio Lower Upper

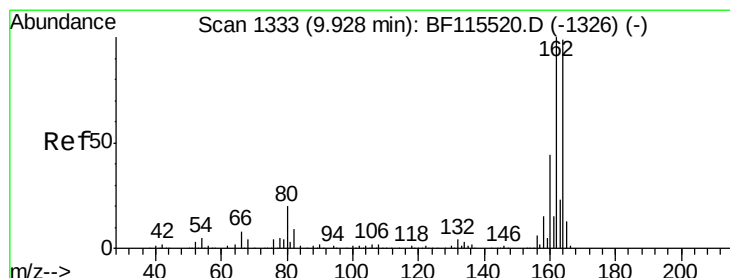
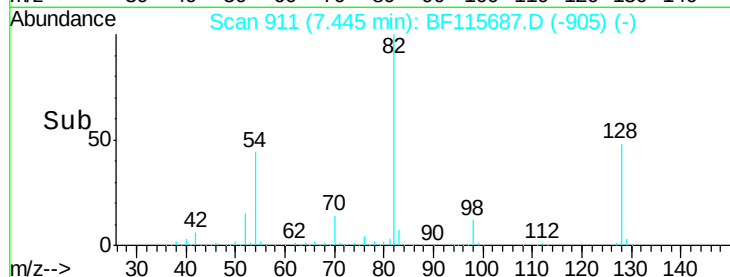
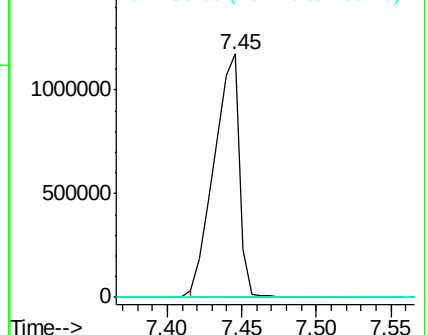
82 100

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: BF115687.D

Acq: 19 Jul 2019 22:16

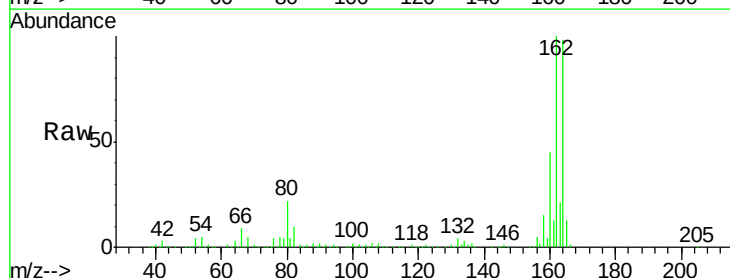
Tgt Ion:164 Resp: 439819

Ion Ratio Lower Upper

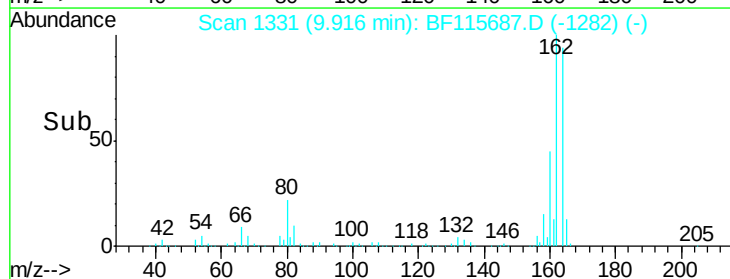
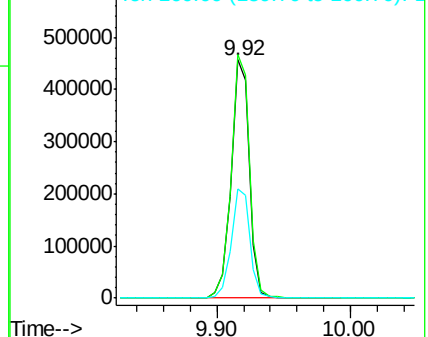
164 100

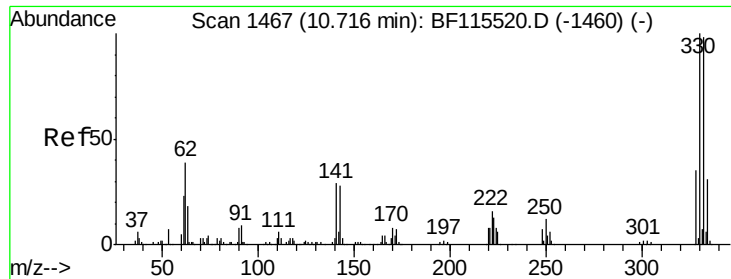
162 102.2 82.9 124.3

160 45.9 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

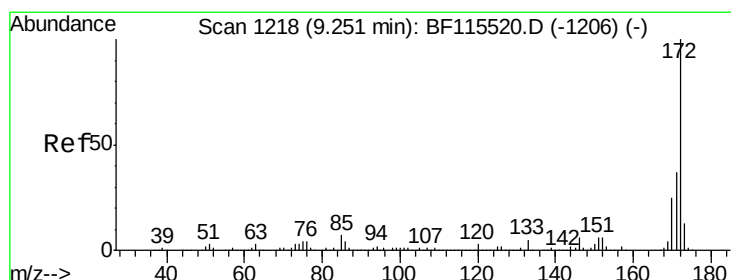
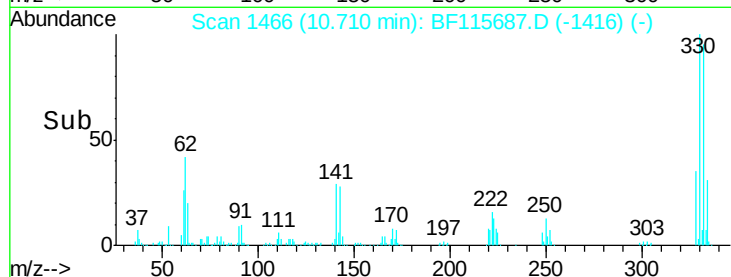
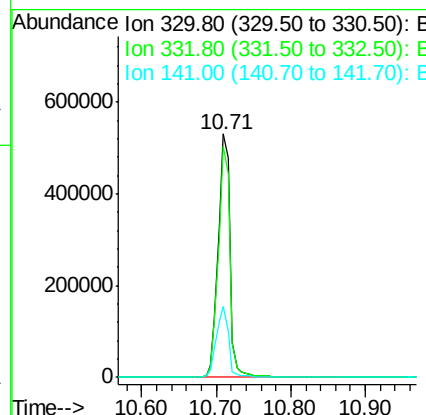
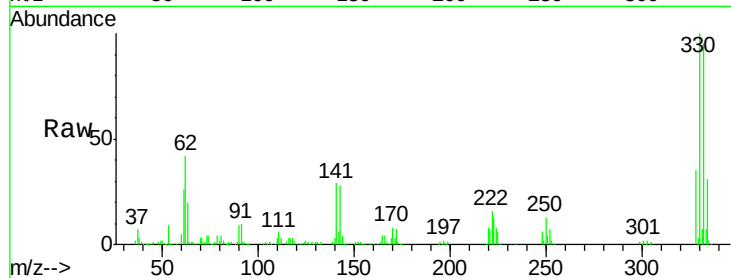




#42  
 2,4,6-Tribromophenol  
 Concen: 113.391 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.01 min  
 Lab File: BF115687.D  
 Acq: 19 Jul 2019 22:16

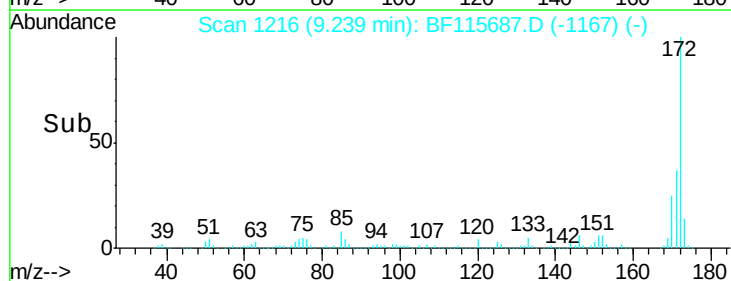
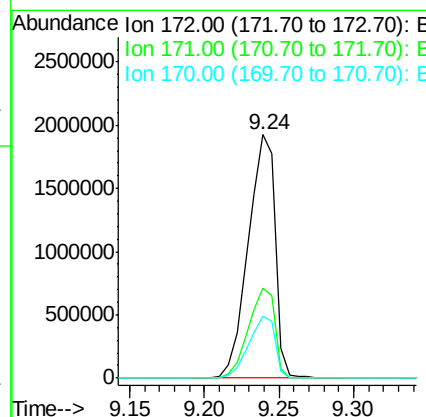
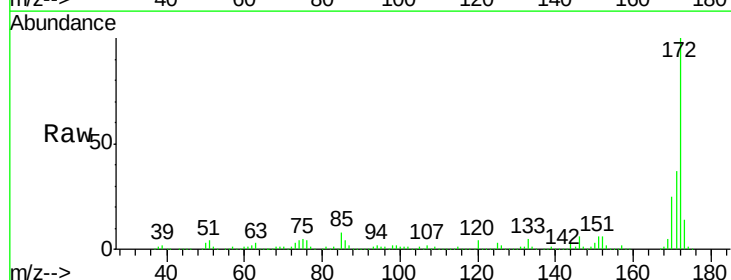
Instrument :  
 BNA\_F  
 ClientSampleId :

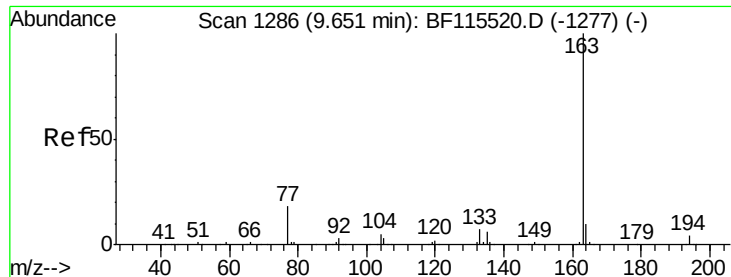
Tot Ion:330 Resp: 582119  
 Ion Ratio Lower Upper  
 330 100  
 332 93.9 77.4 116.2  
 141 30.1 22.4 33.6



#45  
 2-Fluorobiphenyl  
 Concen: 95.351 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF115687.D  
 Acq: 19 Jul 2019 22:16

Tgt Ion:172 Resp: 2396011  
 Ion Ratio Lower Upper  
 172 100  
 171 36.9 30.6 46.0  
 170 25.2 20.5 30.7

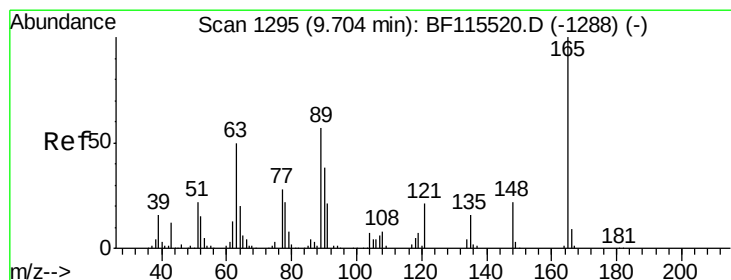
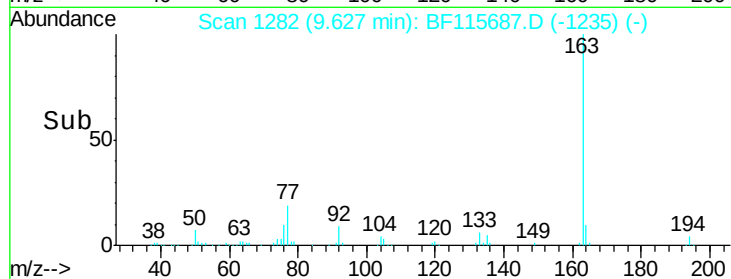
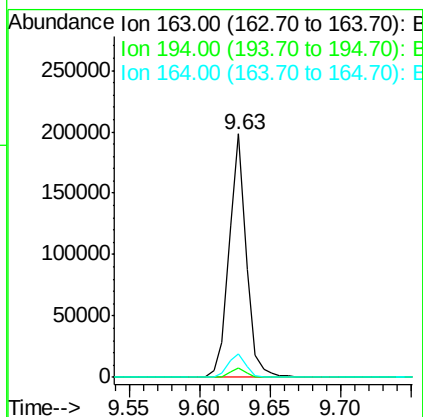
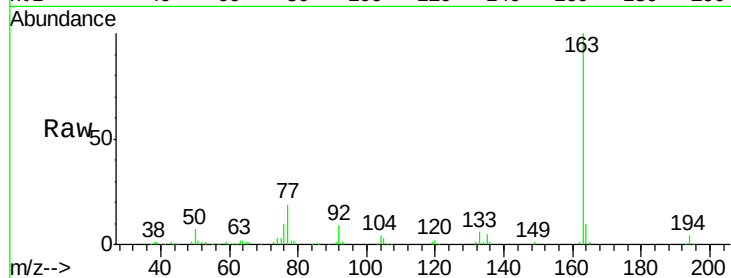




#50  
Dimethylphthalate  
Concen: 5.100 ng  
RT: 9.63 min Scan# 1282  
Delta R.T. -0.02 min  
Lab File: BF115687.D  
Acq: 19 Jul 2019 22:16

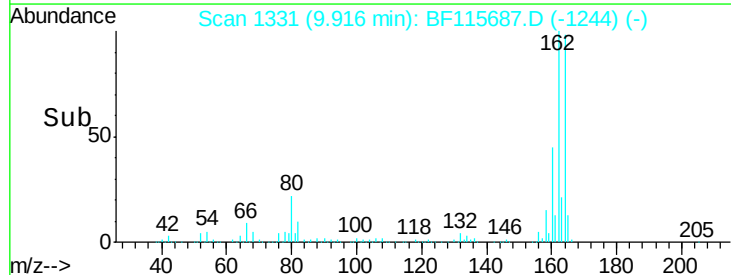
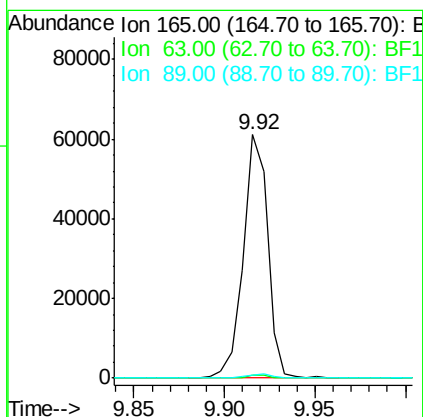
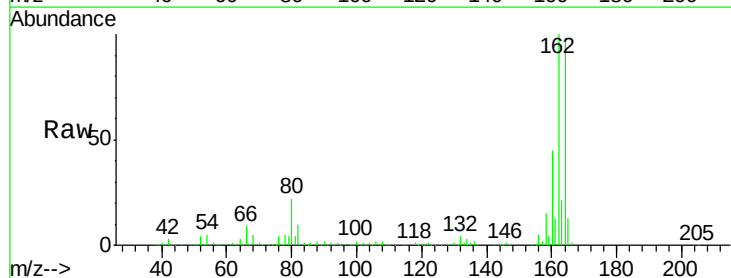
Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:163 Resp: 168766  
Ion Ratio Lower Upper  
163 100  
194 3.7 3.3 4.9  
164 9.8 8.7 13.1

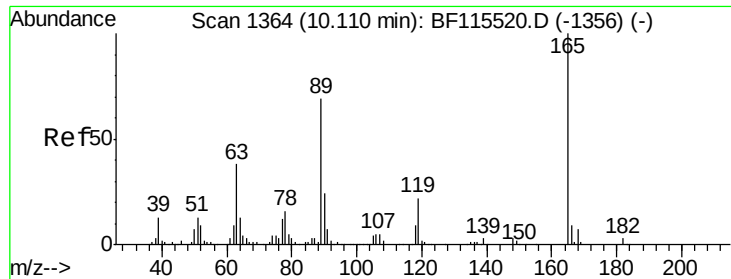


#51  
2,6-Dinitrotoluene  
Concen: 7.600 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. 0.21 min  
Lab File: BF115687.D  
Acq: 19 Jul 2019 22:16

Tgt Ion:165 Resp: 57149  
Ion Ratio Lower Upper  
165 100  
63 1.0 40.6 61.0#  
89 1.2 43.9 65.9#



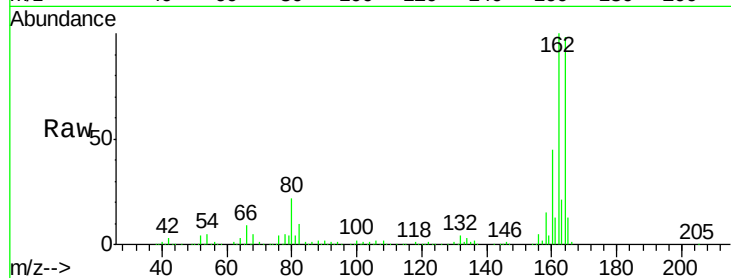




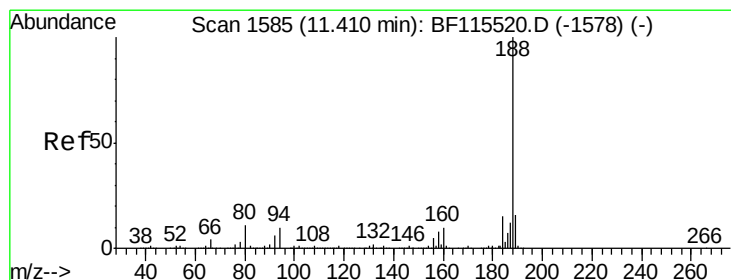
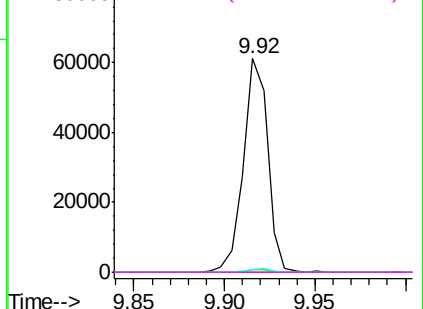
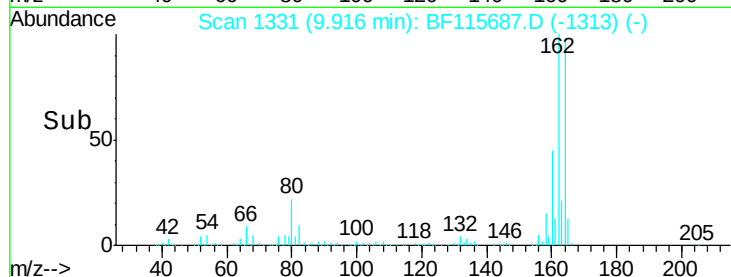
#57  
 2,4-Dinitrotoluene  
 Concen: 5.866 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.19 min  
 Lab File: BF115687.D  
 Acq: 19 Jul 2019 22:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 57149  
 Ion Ratio Lower Upper  
 165 100  
 63 1.0 34.9 52.3#  
 89 1.2 57.5 86.3#  
 182 0.0 2.2 3.4#

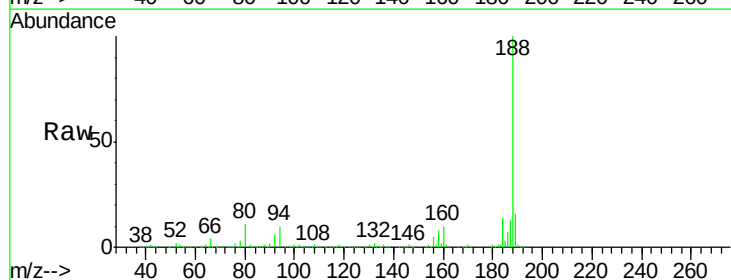


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

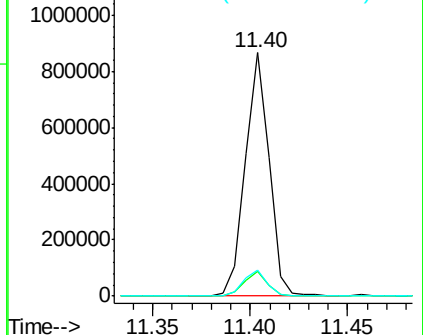
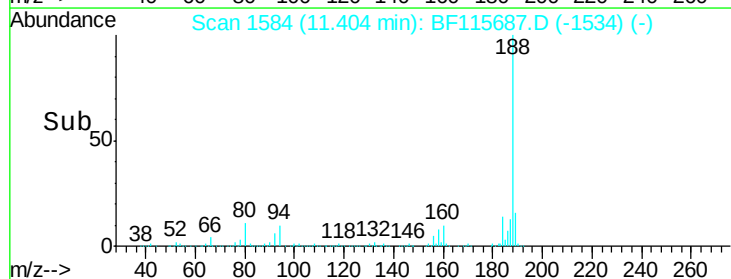


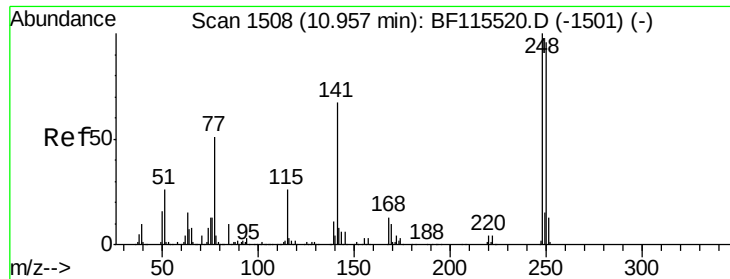
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF115687.D  
 Acq: 19 Jul 2019 22:16

Tgt Ion:188 Resp: 733724  
 Ion Ratio Lower Upper  
 188 100  
 94 10.1 7.8 11.6  
 80 10.6 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

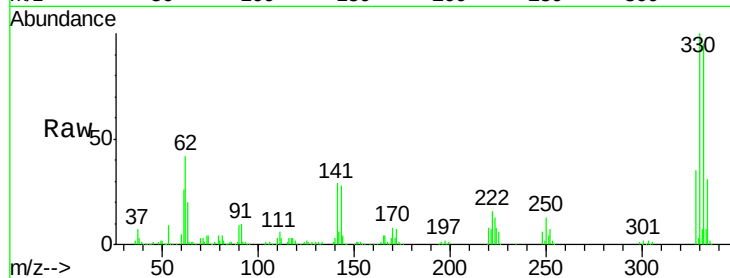




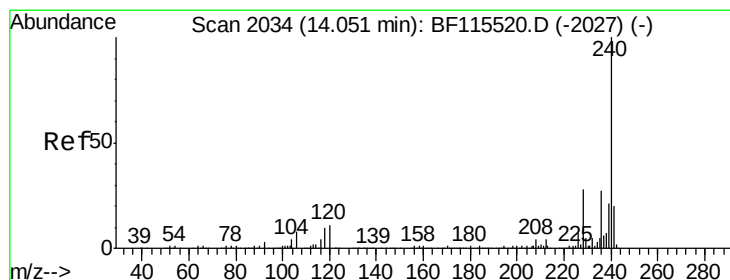
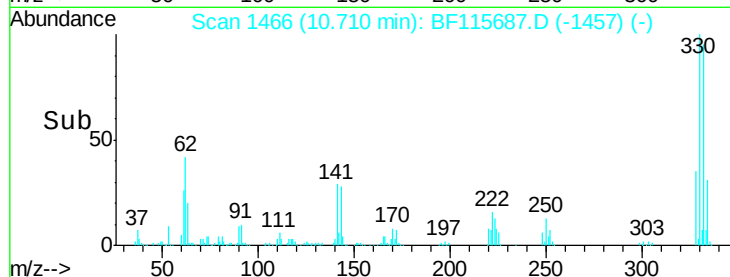
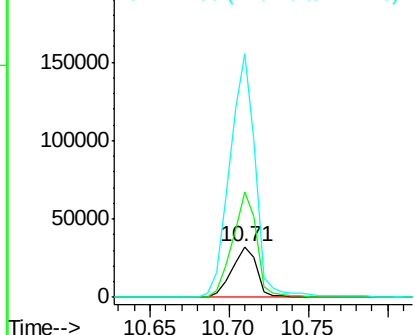
#67  
4-Bromophenyl-phenylether  
Concen: 4.200 ng  
RT: 10.71 min Scan# 1466  
Delta R.T. -0.25 min  
Lab File: BF115687.D  
Acq: 19 Jul 2019 22:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 35212  
Ion Ratio Lower Upper  
248 100  
250 209.0 78.0 117.0#  
141 480.4 57.7 86.5#

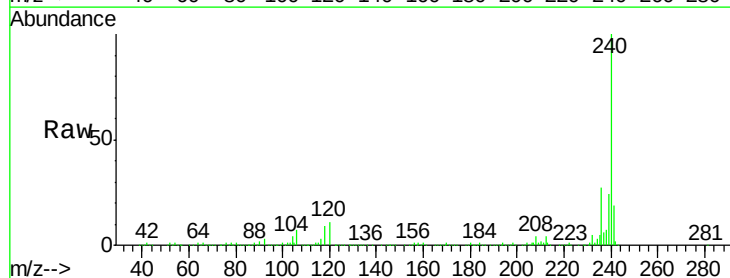


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

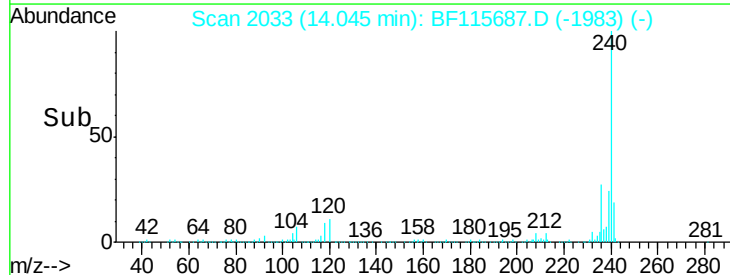
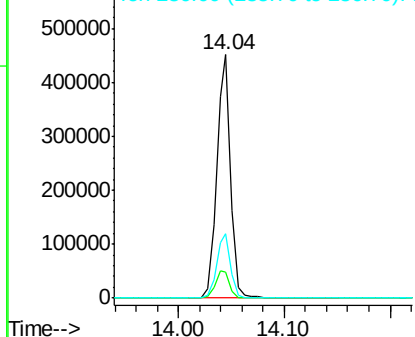


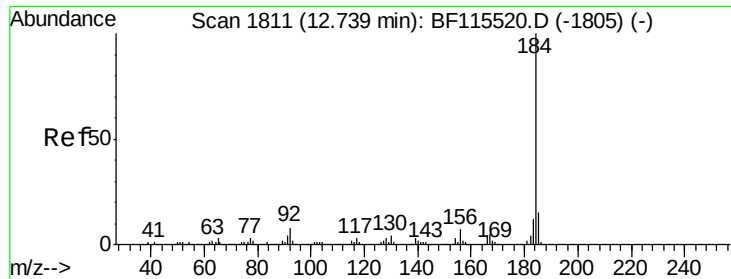
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.04 min Scan# 2033  
Delta R.T. -0.01 min  
Lab File: BF115687.D  
Acq: 19 Jul 2019 22:16

Tgt Ion:240 Resp: 416552  
Ion Ratio Lower Upper  
240 100  
120 10.6 8.6 13.0  
236 26.6 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: 2.082 ng

RT: 12.99 min Scan# 1854

Delta R.T. 0.25 min

Lab File: BF115687.D

Acq: 19 Jul 2019 22:16

Instrument :

BNA\_F

ClientSampleId :

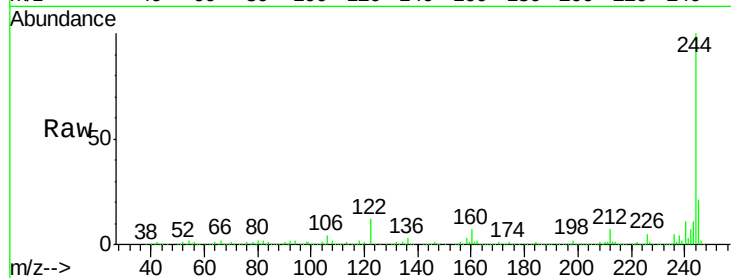
Tot Ion:184 Resp: 30716

Ion Ratio Lower Upper

184 100

185 16.6 12.0 18.0

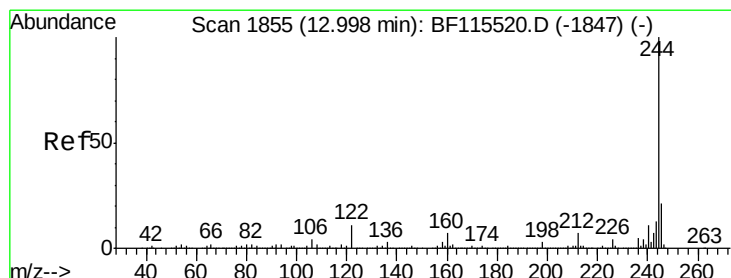
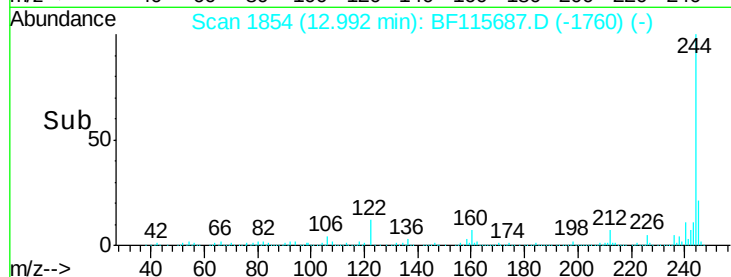
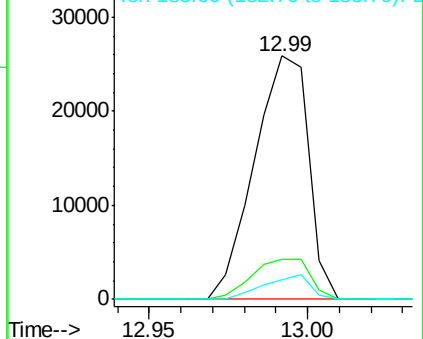
183 8.2 9.3 13.9#



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: 105.017 ng

RT: 13.00 min Scan# 1855

Delta R.T. -0.00 min

Lab File: BF115687.D

Acq: 19 Jul 2019 22:16

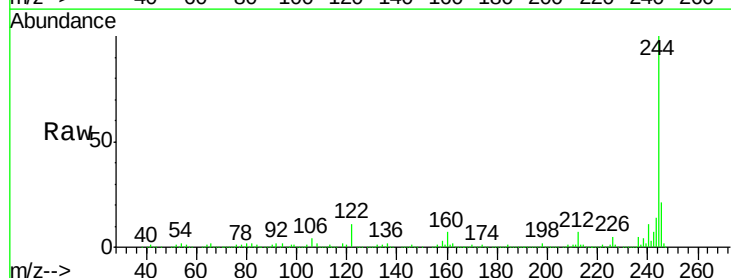
Tgt Ion:244 Resp: 2370781

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

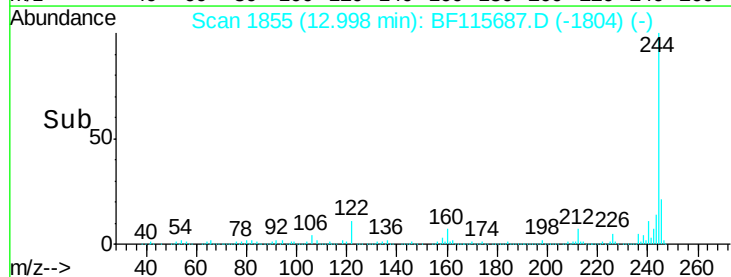
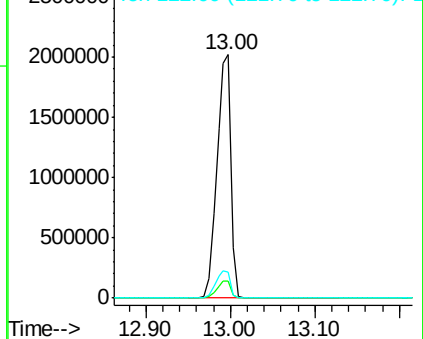
122 10.6 8.6 12.8

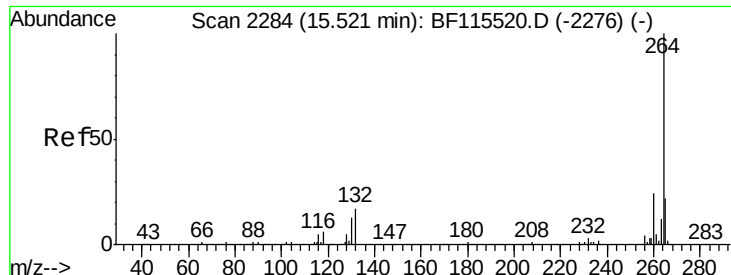


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

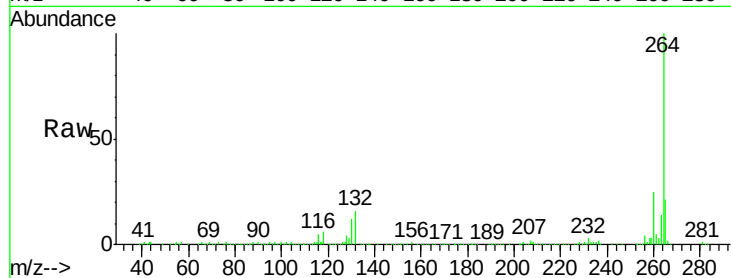




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.52 min Scan# 2284  
Delta R.T. -0.00 min  
Lab File: BF115687.D  
Acq: 19 Jul 2019 22:16

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.8  | 19.8  | 29.8  |
| 265     | 21.4  | 17.7  | 26.5  |



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

