

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040119\  
 Data File : BF113589.D  
 Acq On : 2 Apr 2019 4:18  
 Operator : JU/SJ  
 Sample : K2177-05  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 02 05:59:19 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF032519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 26 03:32:08 2019  
 Response via : Initial Calibration

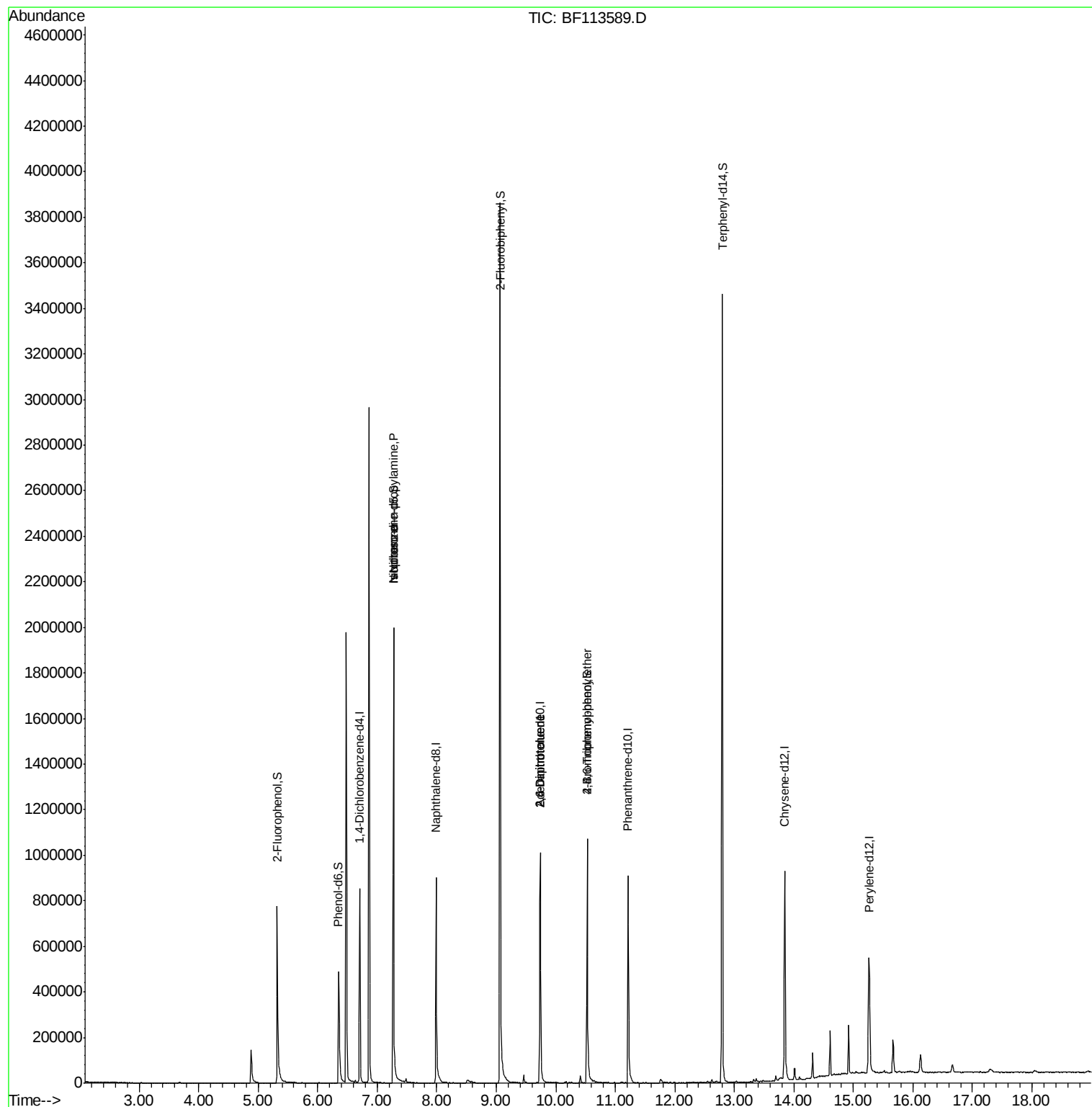
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.70  | 152  | 145176   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.99  | 136  | 528694   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.74  | 164  | 229523   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.22 | 188  | 417137   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 13.84 | 240  | 403288   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.26 | 264  | 262041   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.32  | 112  | 292180   | 32.91  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.35  | 99   | 234337   | 20.86  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.27  | 82   | 778387   | 87.39  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.53 | 330  | 196737   | 69.39  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.06  | 172  | 1409813  | 99.22  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.80 | 244  | 1271683  | 69.50  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.27  | 70   | 99550    | 14.110 | ng    | # 75     |
| 25) Isophorone                 | 7.27  | 82   | 780253   | 45.200 | ng    | # 64     |
| 51) 2,6-Dinitrotoluene         | 9.74  | 165  | 28945    | 7.543  | ng    | # 26     |
| 57) 2,4-Dinitrotoluene         | 9.74  | 165  | 28946    | 5.932  | ng    | # 23     |
| 67) 4-Bromophenyl-phenylether  | 10.53 | 248  | 10783    | 2.372  | ng    | # 1      |

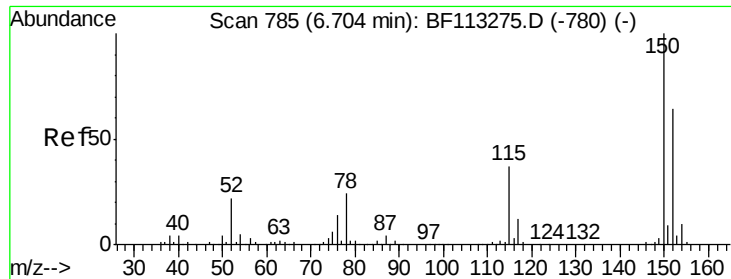
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040119\  
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ALS Vial : 44 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Apr 02 05:59:19 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF032519.M  
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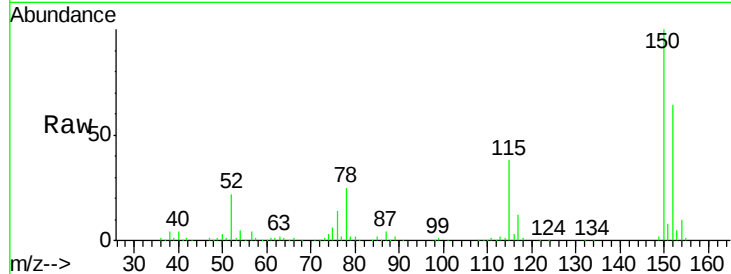


#1

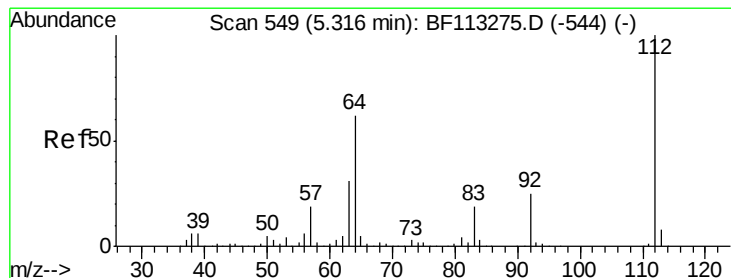
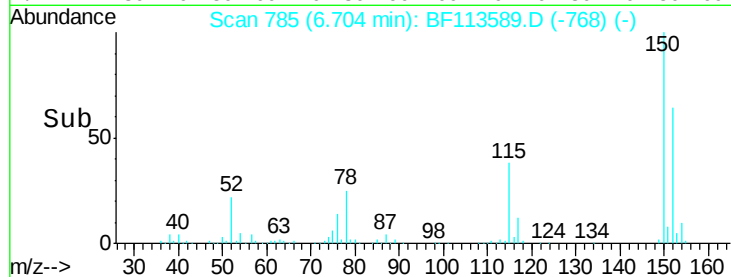
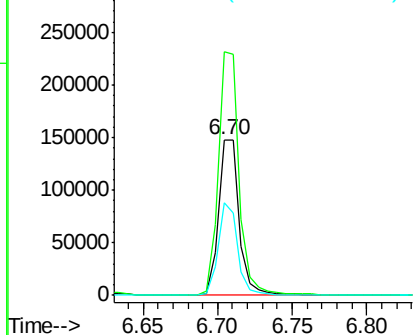
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.70 min Scan# 785  
Delta R.T. 0.00 min  
Lab File: BF113589.D  
Acq: 2 Apr 2019 4:18

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 145176  
Ion Ratio Lower Upper  
152 100  
150 156.7 124.7 187.1  
115 59.8 46.0 69.0



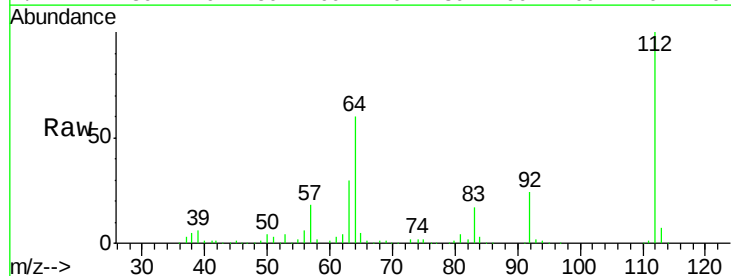
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



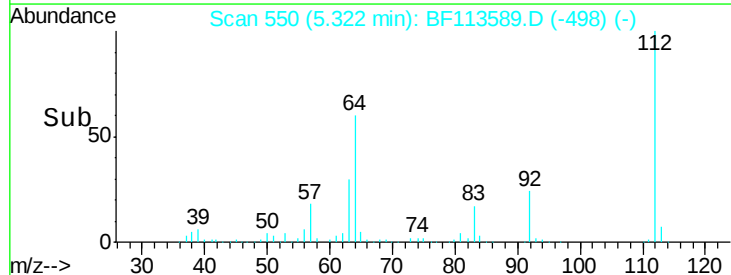
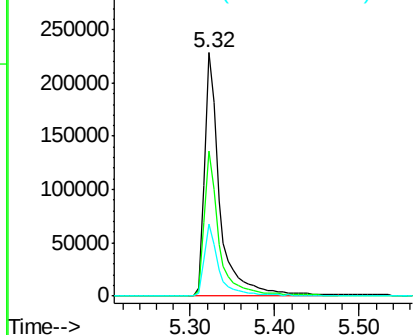
#5

2-Fluorophenol  
Concen: 32.908 ng  
RT: 5.32 min Scan# 550  
Delta R.T. 0.01 min  
Lab File: BF113589.D  
Acq: 2 Apr 2019 4:18

Tgt Ion:112 Resp: 292180  
Ion Ratio Lower Upper  
112 100  
64 59.8 49.2 73.8  
63 29.7 24.9 37.3



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: 20.863 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF113589.D

Acq: 2 Apr 2019 4:18

Instrument :

BNA\_F

ClientSampleId :

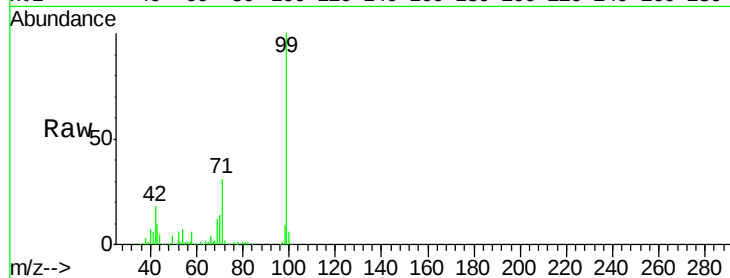
Tot Ion: 99 Resp: 234337

Ion Ratio Lower Upper

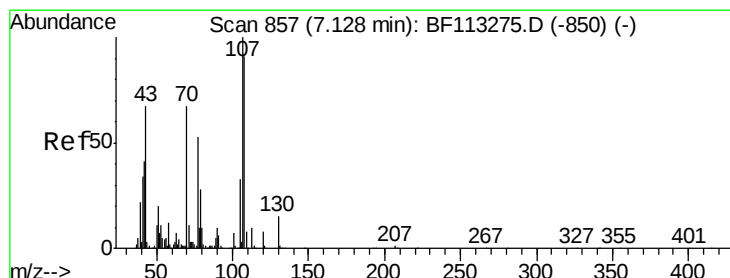
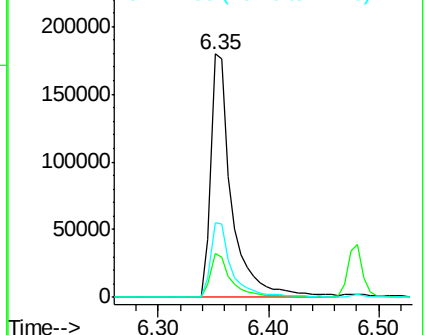
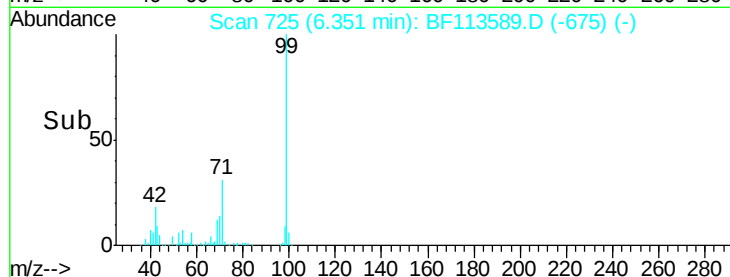
99 100

42 18.1 14.8 22.2

71 30.6 24.9 37.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 14.110 ng

RT: 7.27 min Scan# 882

Delta R.T. 0.15 min

Lab File: BF113589.D

Acq: 2 Apr 2019 4:18

Tgt Ion: 70 Resp: 99550

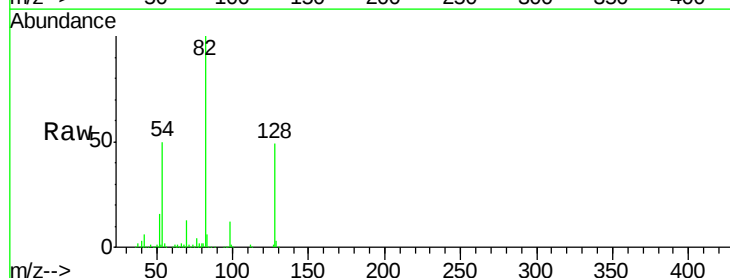
Ion Ratio Lower Upper

70 100

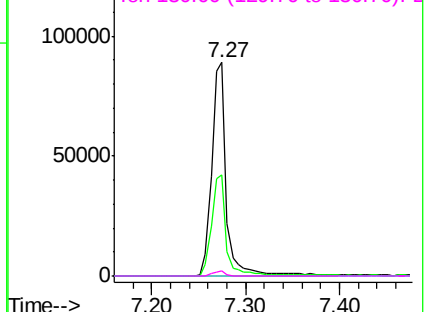
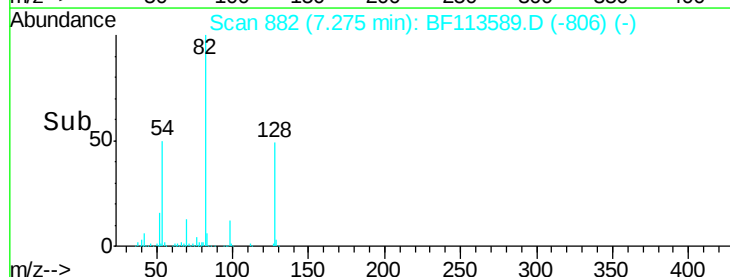
42 47.2 48.4 72.6#

101 0.0 7.8 11.8#

130 2.3 18.2 27.4#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1

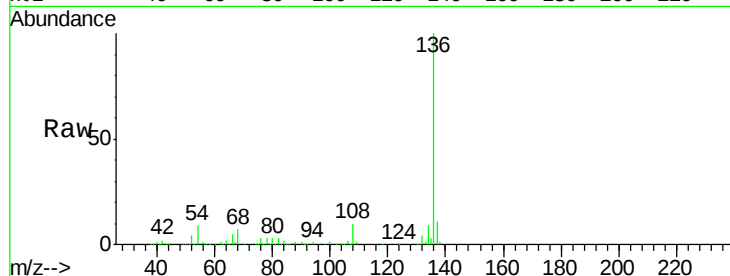




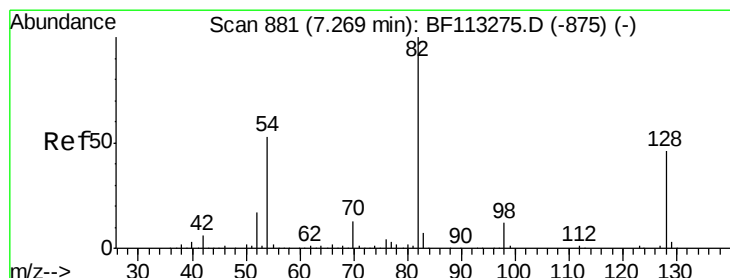
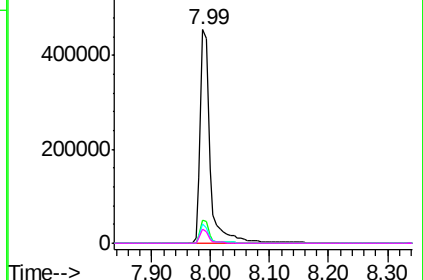
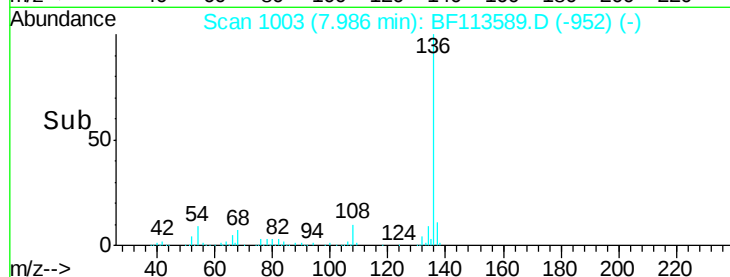
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.99 min Scan# 1003  
Delta R.T. 0.00 min  
Lab File: BF113589.D  
Acq: 2 Apr 2019 4:18

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 528694      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.9  | 8.9 13.3    |
| 54          | 8.8   | 7.0 10.6    |
| 68          | 6.5   | 4.8 7.2     |

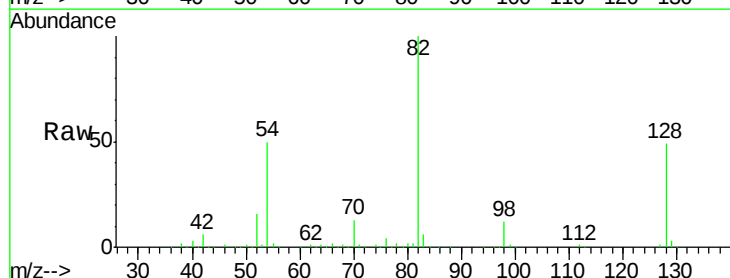


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

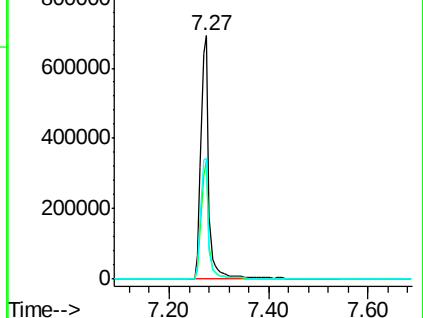
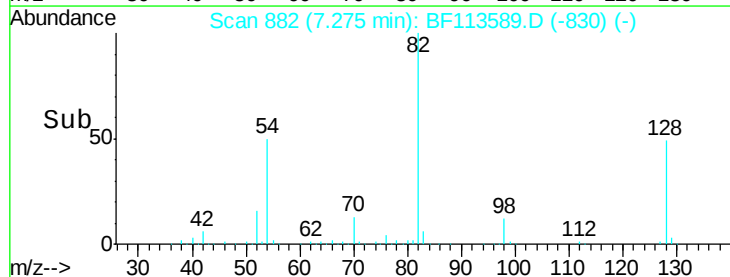


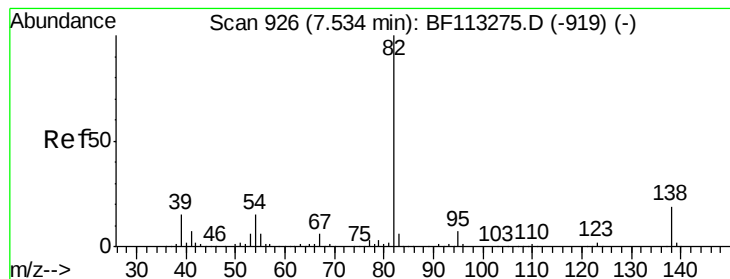
#23  
Nitrobenzene-d5  
Concen: 87.386 ng  
RT: 7.27 min Scan# 882  
Delta R.T. 0.01 min  
Lab File: BF113589.D  
Acq: 2 Apr 2019 4:18

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 778387      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 48.7  | 36.5 54.7   |
| 54          | 49.5  | 42.2 63.2   |



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: 45.200 ng

RT: 7.27 min Scan# 882

Delta R.T. -0.26 min

Lab File: BF113589.D

Acq: 2 Apr 2019 4:18

Instrument :

BNA\_F

ClientSampled :

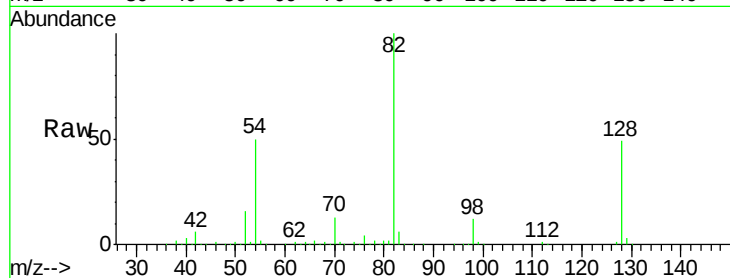
Tot Ion: 82 Resp: 780253

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

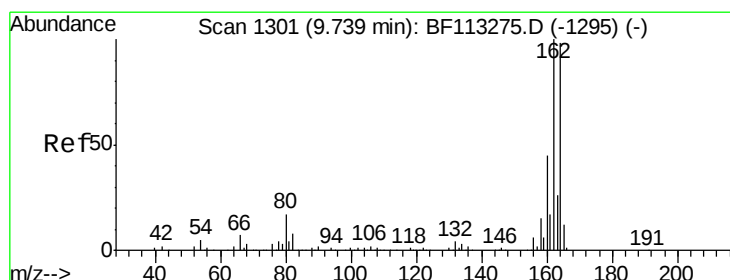
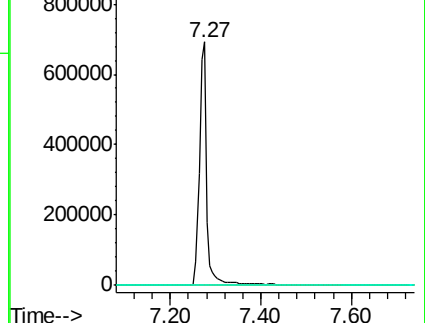
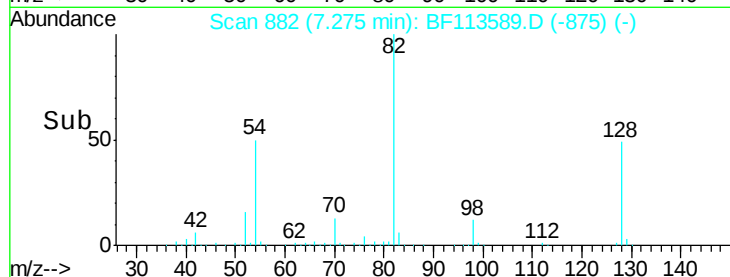
138 0.0 15.2 22.8#



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: 9.74 min Scan# 1301

Delta R.T. 0.00 min

Lab File: BF113589.D

Acq: 2 Apr 2019 4:18

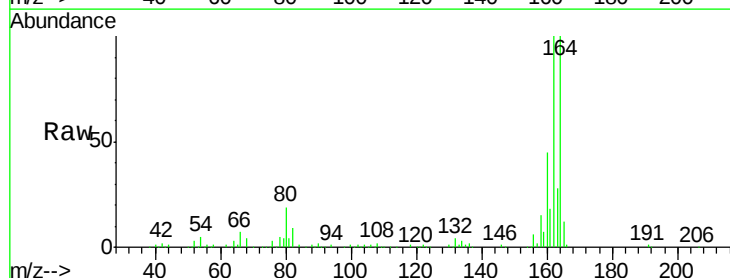
Tgt Ion:164 Resp: 229523

Ion Ratio Lower Upper

164 100

162 100.2 81.8 122.6

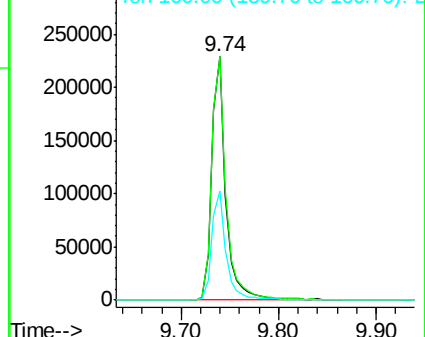
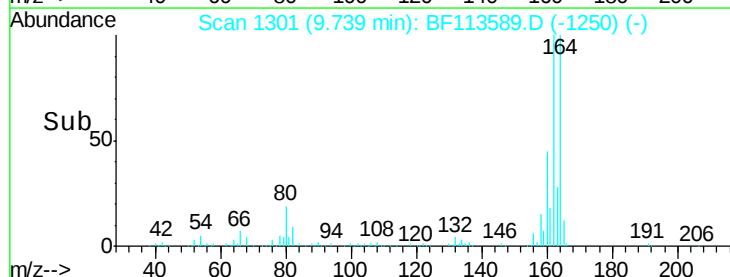
160 44.9 36.4 54.6

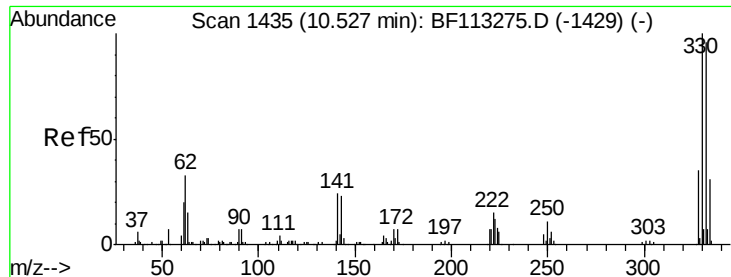


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

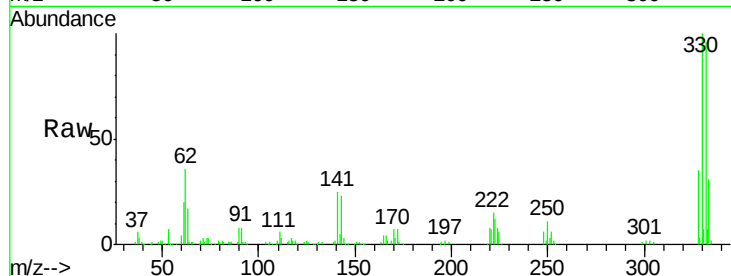




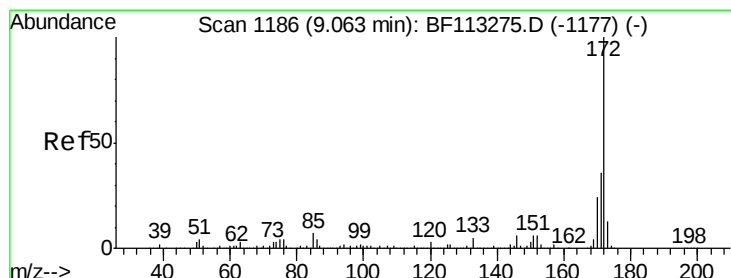
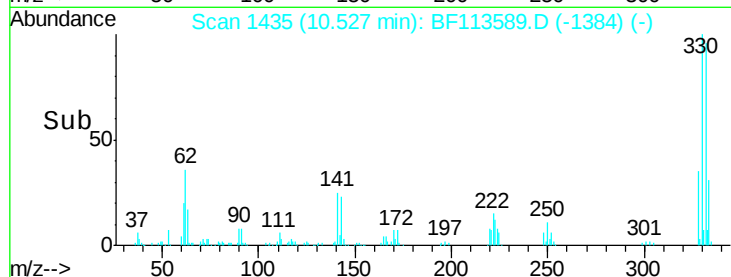
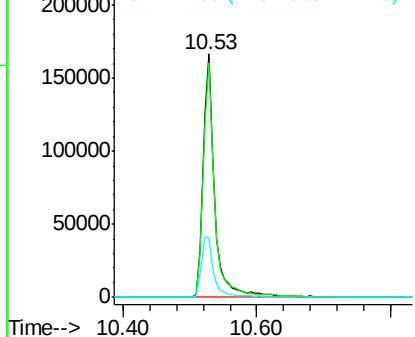
#42  
 2,4,6-Tribromophenol  
 Concen: 69.393 ng  
 RT: 10.53 min Scan# 1435  
 Delta R.T. 0.00 min  
 Lab File: BF113589.D  
 Acq: 2 Apr 2019 4:18

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 196737  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 77.8 116.6  
 141 26.9 22.7 34.1

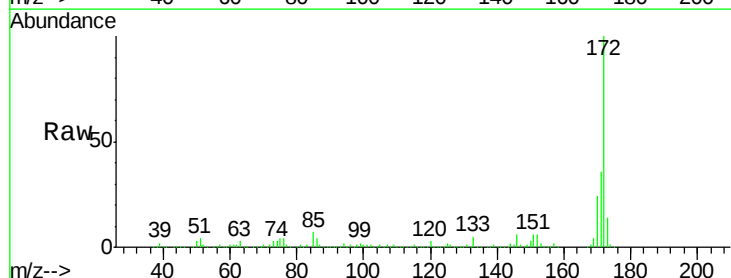


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

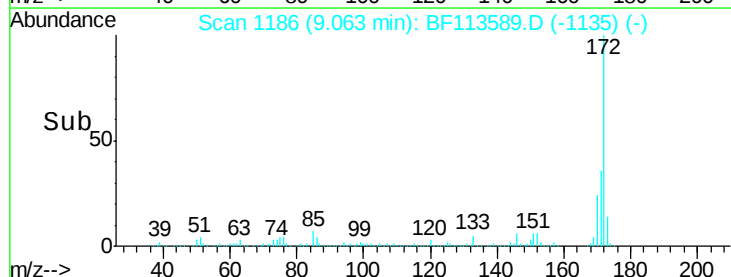
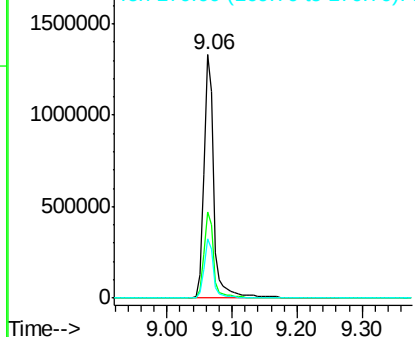


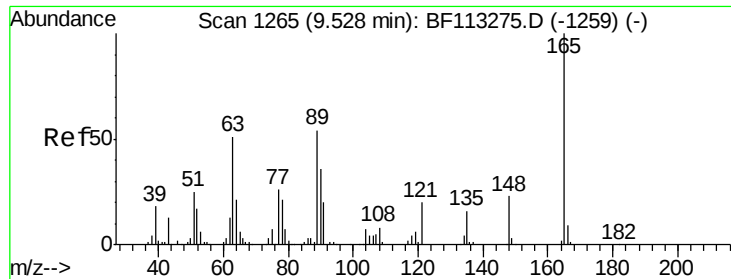
#45  
 2-Fluorobiphenyl  
 Concen: 99.224 ng  
 RT: 9.06 min Scan# 1186  
 Delta R.T. 0.00 min  
 Lab File: BF113589.D  
 Acq: 2 Apr 2019 4:18

Tgt Ion:172 Resp: 1409813  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 29.0 43.6  
 170 24.3 19.5 29.3



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: 7.543 ng

RT: 9.74 min Scan# 1301

Delta R.T. 0.21 min

Lab File: BF113589.D

Acq: 2 Apr 2019 4:18

Instrument :

BNA\_F

ClientSampleId :

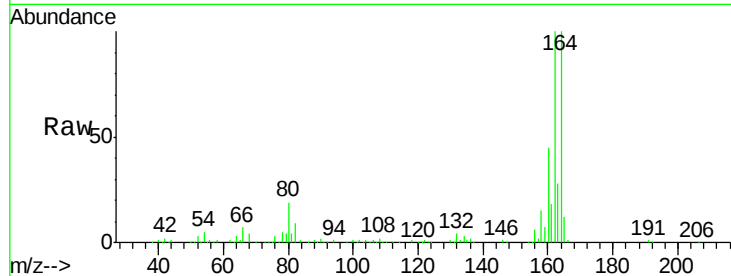
Tot Ion:165 Resp: 28945

Ion Ratio Lower Upper

165 100

63 1.3 43.4 65.0#

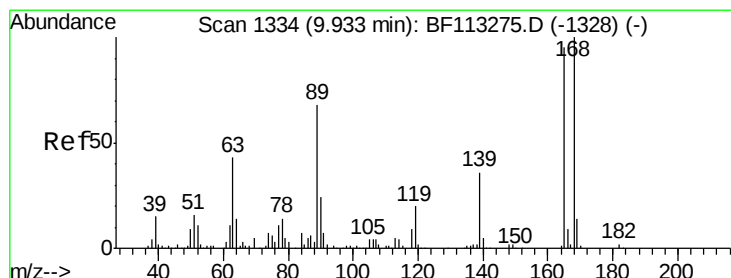
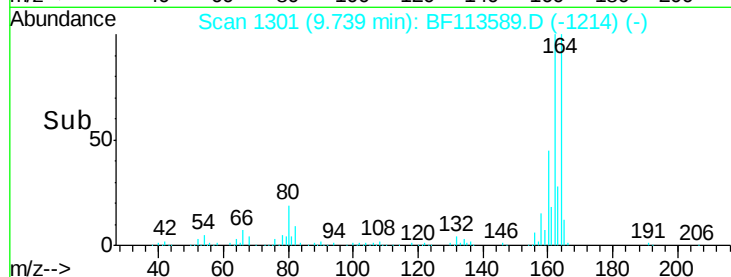
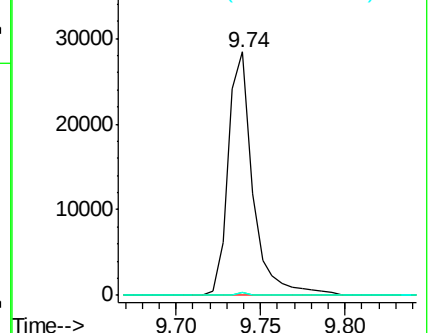
89 1.2 43.1 64.7#



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: 5.932 ng

RT: 9.74 min Scan# 1301

Delta R.T. -0.19 min

Lab File: BF113589.D

Acq: 2 Apr 2019 4:18

Tgt Ion:165 Resp: 28946

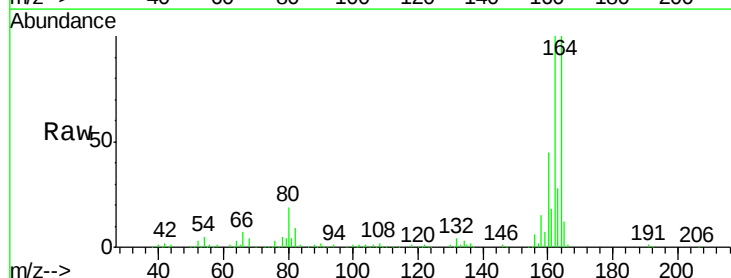
Ion Ratio Lower Upper

165 100

63 1.3 37.5 56.3#

89 1.2 57.4 86.2#

182 0.0 2.0 3.0#

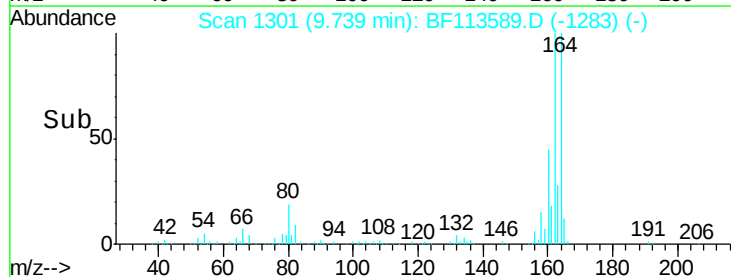
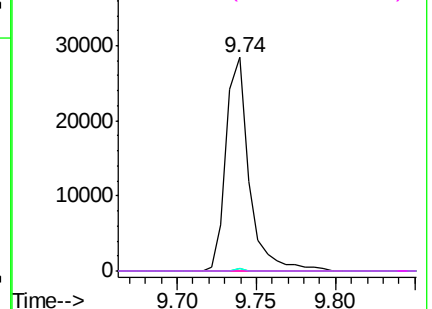


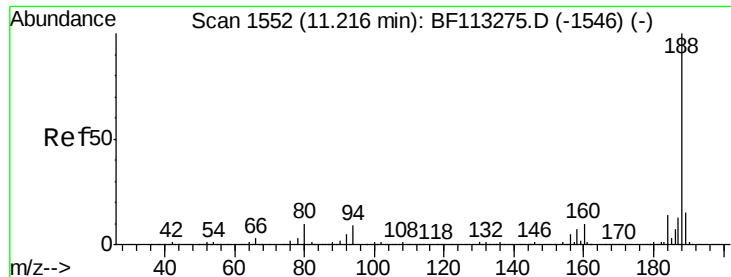
Abundance Ion 165.00 (164.70 to 165.70): E

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

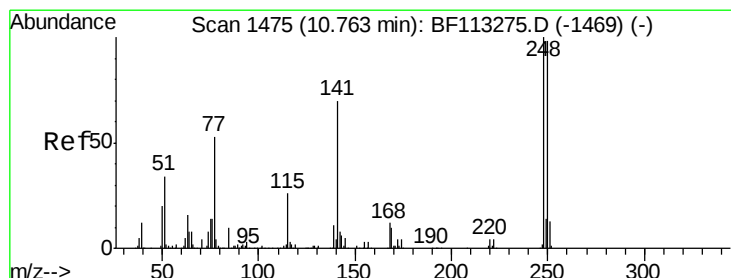
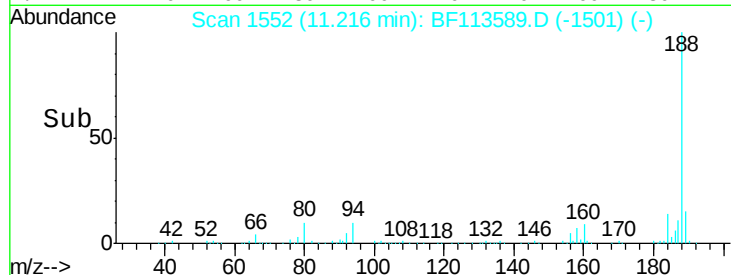
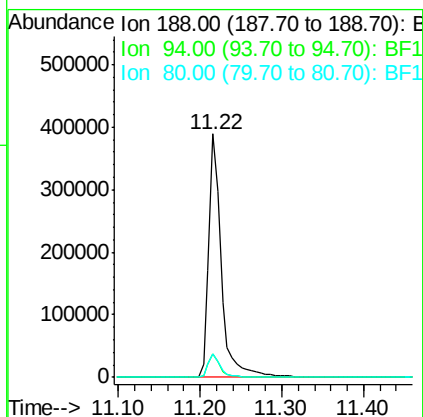
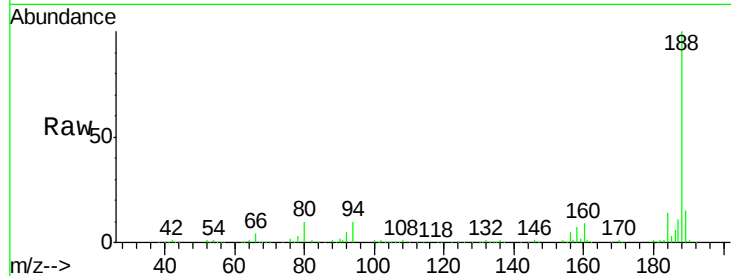




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.22 min Scan# 1552  
 Delta R.T. 0.00 min  
 Lab File: BF113589.D  
 Acq: 2 Apr 2019 4:18

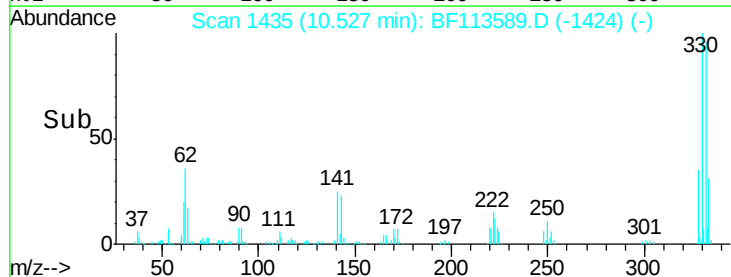
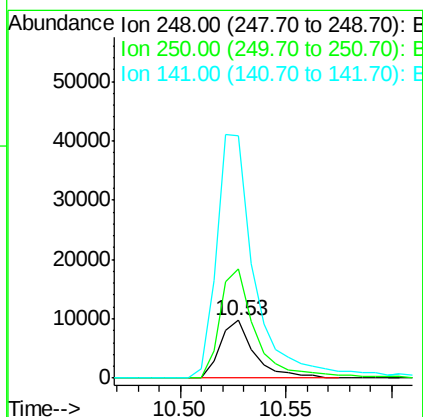
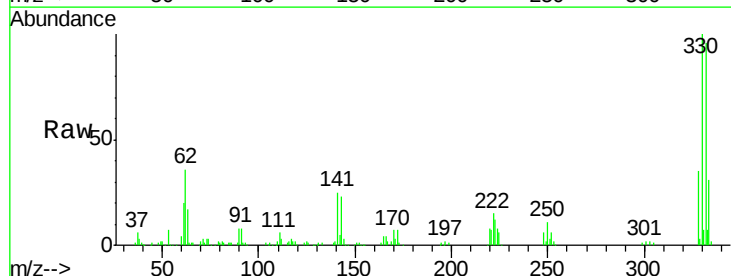
Instrument :  
 BNA\_F  
 ClientSampleId :

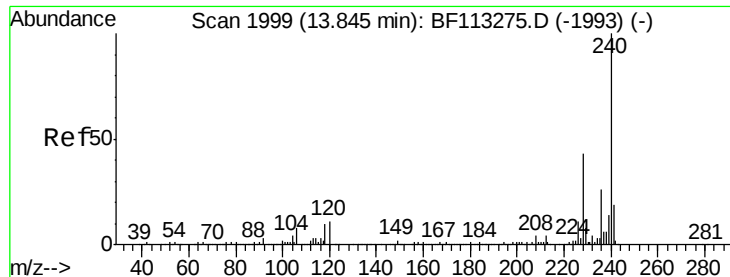
Tot Ion:188 Resp: 417137  
 Ion Ratio Lower Upper  
 188 100  
 94 9.7 7.0 10.6  
 80 9.5 7.7 11.5



#67  
 4-Bromophenyl-phenylether  
 Concen: 2.372 ng  
 RT: 10.53 min Scan# 1435  
 Delta R.T. -0.24 min  
 Lab File: BF113589.D  
 Acq: 2 Apr 2019 4:18

Tgt Ion:248 Resp: 10783  
 Ion Ratio Lower Upper  
 248 100  
 250 189.2 78.3 117.5#  
 141 418.7 56.2 84.4#





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1999

Delta R.T. 0.00 min

Lab File: BF113589.D

Acq: 2 Apr 2019 4:18

Instrument :

BNA\_F

ClientSampleId :

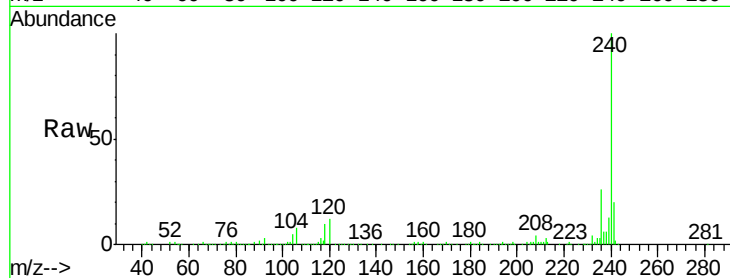
Tot Ion:240 Resp: 403288

Ion Ratio Lower Upper

240 100

120 11.7 8.8 13.2

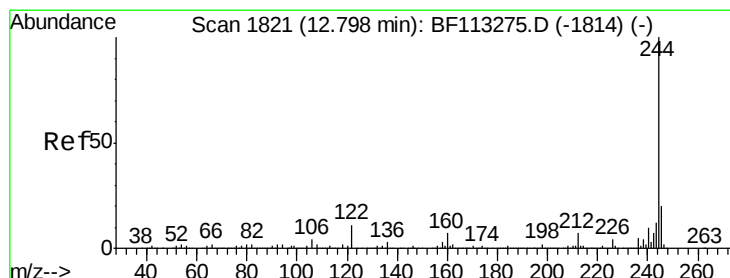
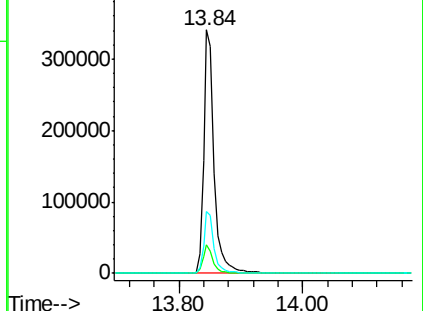
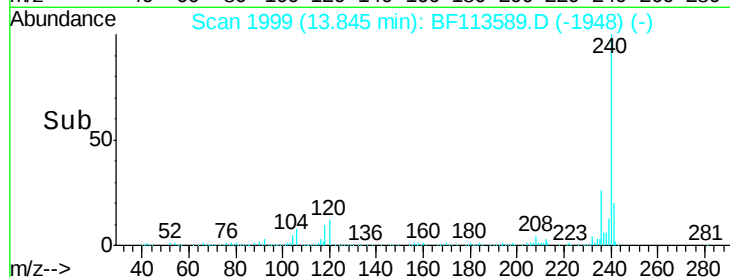
236 25.5 20.9 31.3



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: 69.504 ng

RT: 12.80 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BF113589.D

Acq: 2 Apr 2019 4:18

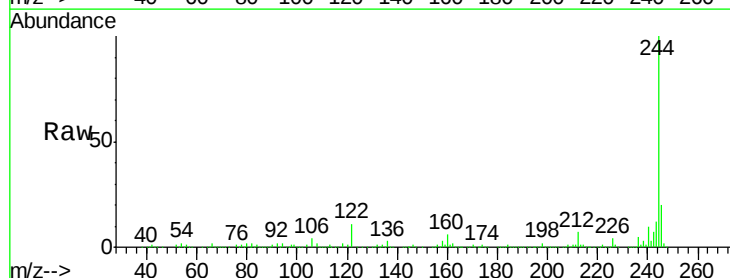
Tgt Ion:244 Resp: 1271683

Ion Ratio Lower Upper

244 100

212 6.6 5.5 8.3

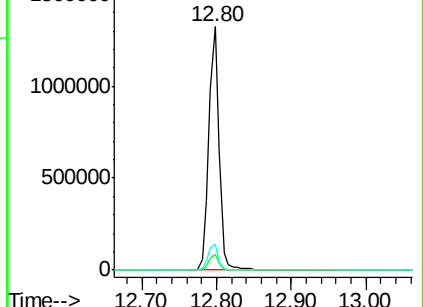
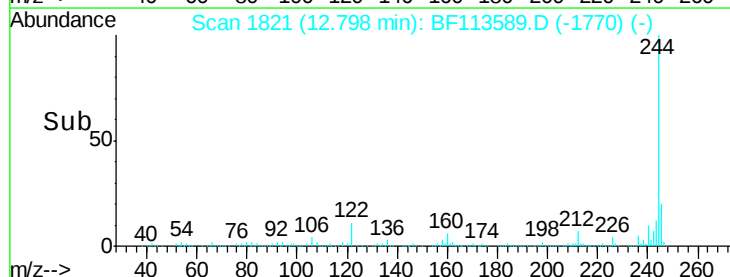
122 10.7 8.6 13.0

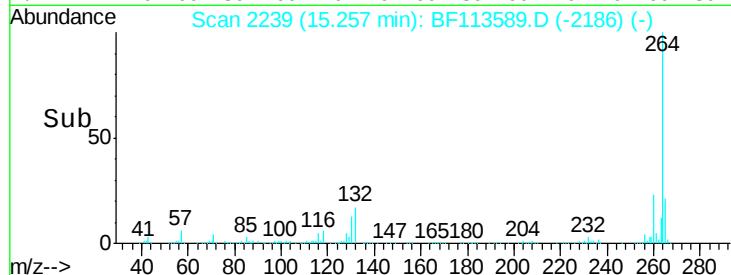
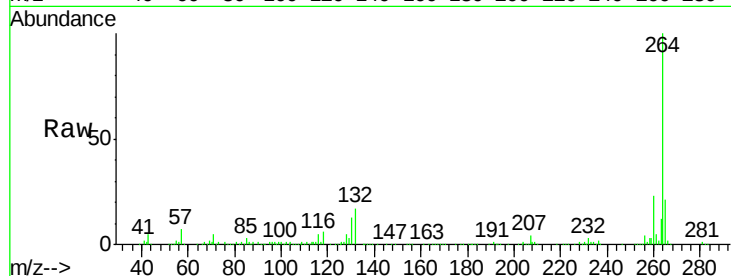
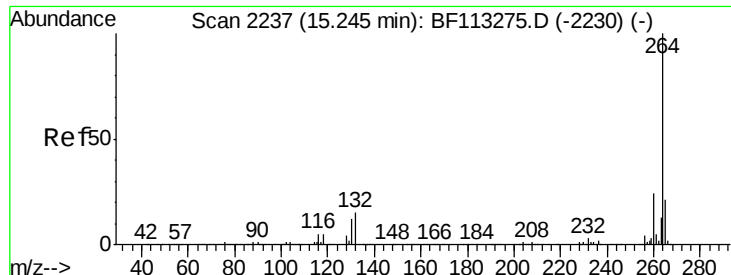


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.26 min Scan# 2239  
 Delta R.T. 0.01 min  
 Lab File: BF113589.D  
 Acq: 2 Apr 2019 4:18

Instrument :  
 BNA\_F  
 ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:264 | Resp: | 262041    |
| Ion Ratio   | Lower | Upper     |
| 264         | 100   |           |
| 260         | 23.1  | 19.1 28.7 |
| 265         | 21.2  | 17.1 25.7 |

