

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF012119\  
 Data File : BF112168.D  
 Acq On : 21 Jan 2019 19:39  
 Operator : JU/SJ  
 Sample : K1013-06  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-011819-C

Quant Time: Jan 22 00:48:52 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jan 19 01:02:12 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 236203   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 799318   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.89  | 164  | 313843   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.37 | 188  | 566880   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 14.02 | 240  | 493123   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.49 | 264  | 350631   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.50  | 112  | 1428777  | 109.79 | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 1461531  | 89.76  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 1197451  | 103.50 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.68 | 330  | 458208   | 135.34 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.21  | 172  | 2151009  | 100.48 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.96 | 244  | 2253460  | 97.22  | ng    | 0.00     |

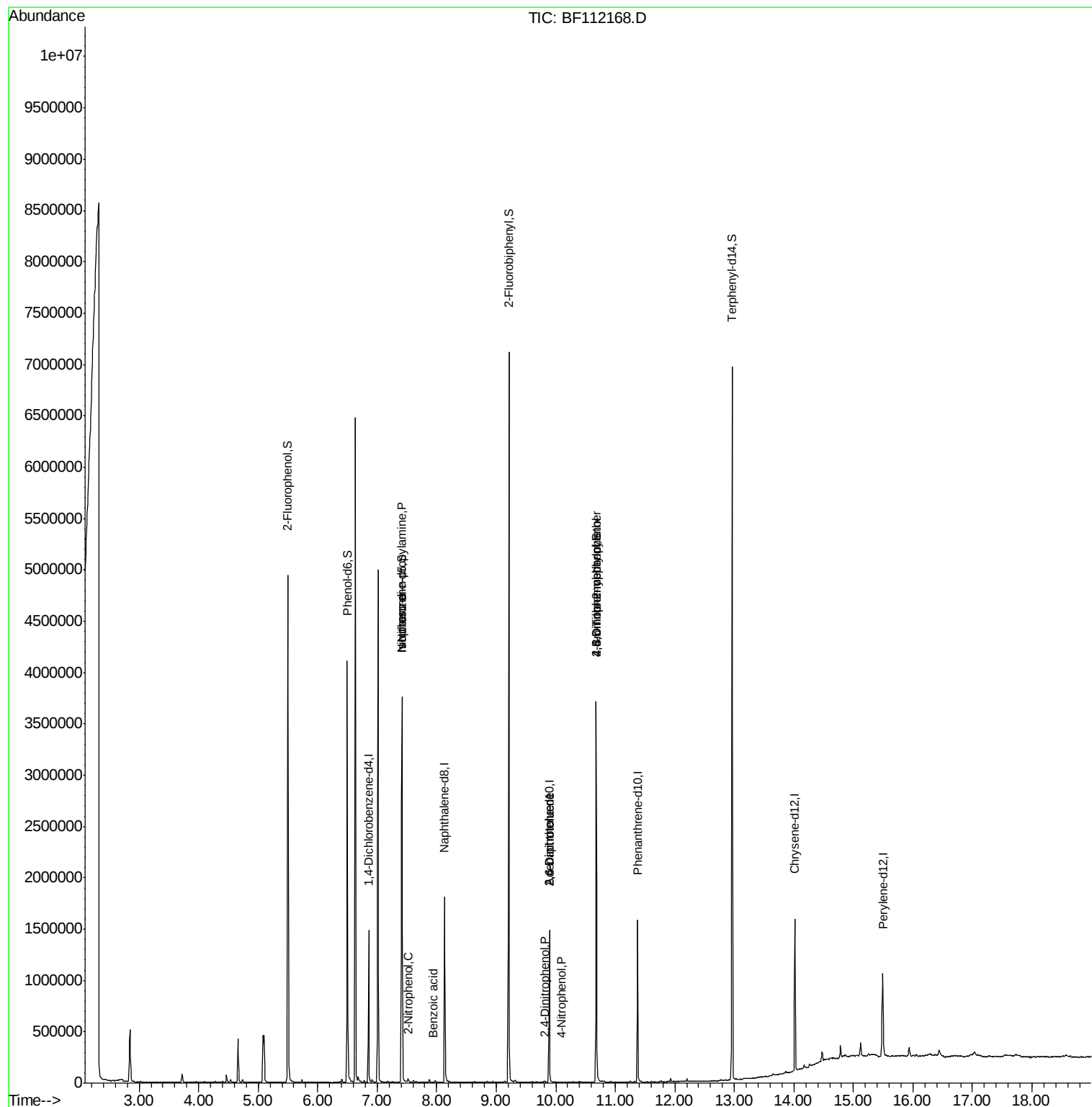
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.40  | 77   | 8193     | Below Cal |       | 91     |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 164870   | 16.621    | ng    | # 76   |
| 25) Isophorone                 | 7.42  | 82   | 1197431  | 53.584    | ng    | # 64   |
| 26) 2-Nitrophenol              | 7.52  | 139  | 323      | 5.726     | ng    | # 39   |
| 32) Benzoic acid               | 7.93  | 122  | 115      | 7.194     | ng    | # 1    |
| 51) 2,6-Dinitrotoluene         | 9.89  | 165  | 40229    | 8.801     | ng    | # 34   |
| 54) 2,4-Dinitrophenol          | 9.82  | 184  | 113      | 7.855     | ng    | # 21   |
| 56) 4-Nitrophenol              | 10.10 | 139  | 402      | 5.757     | ng    | # 12   |
| 57) 2,4-Dinitrotoluene         | 9.89  | 165  | 40229    | 10.783    | ng    | # 32   |
| 65) 4,6-Dinitro-2-methylphenol | 10.68 | 198  | 1000     | 10.404    | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.68 | 248  | 27357    | 4.155     | ng    | # 1    |

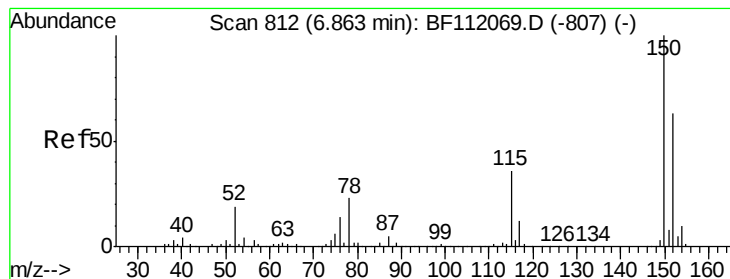
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF012119\  
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Sample : K1013-06  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
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PL-01-011819-C

Quant Time: Jan 22 00:48:52 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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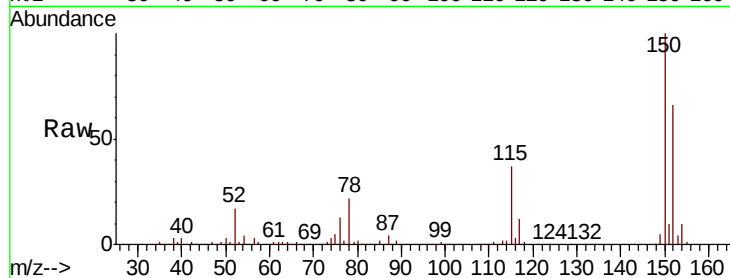


#1

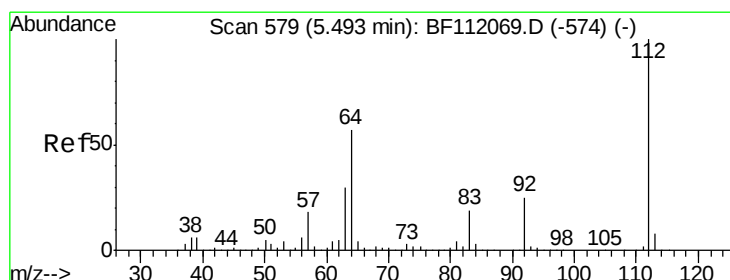
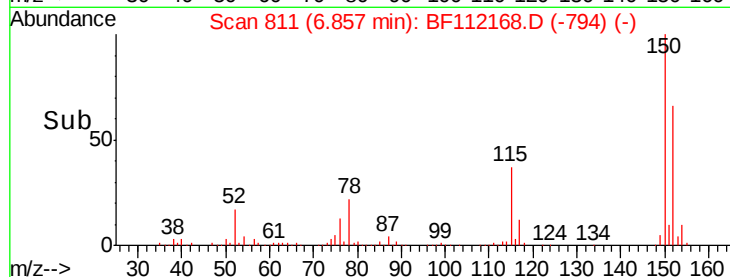
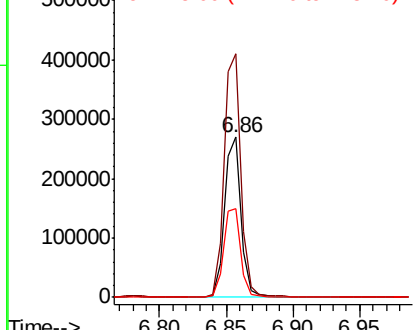
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 811  
Delta R.T. 0.00 min  
Lab File: BF112168.D  
Acq: 21 Jan 2019 19:39

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-011819-C

Tgt Ion:152 Resp: 236203  
Ion Ratio Lower Upper  
152 100  
150 152.4 127.4 191.0  
115 55.9 45.5 68.3



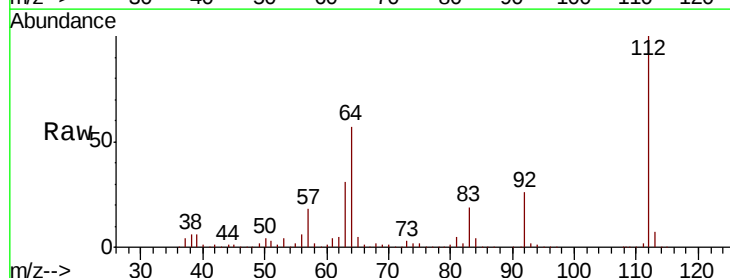
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



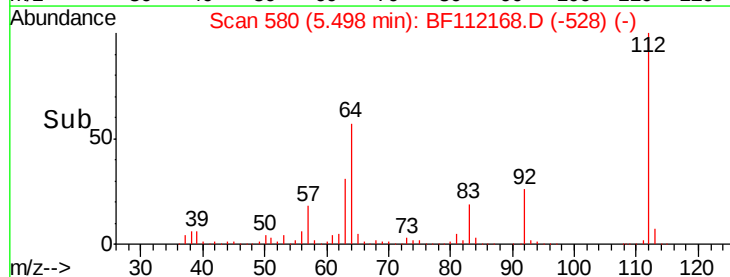
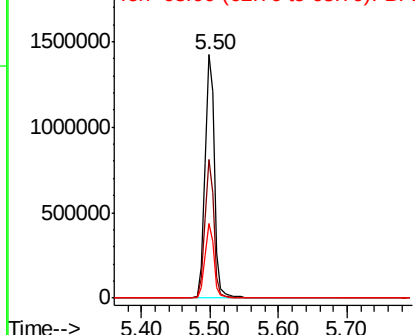
#5

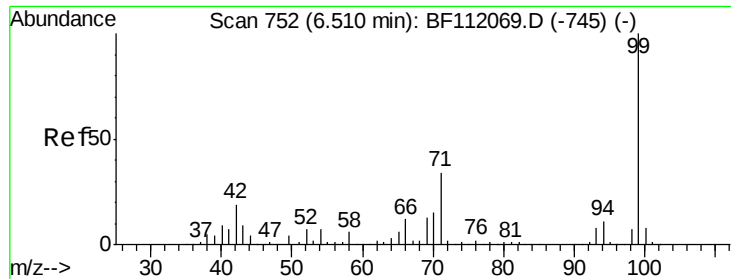
2-Fluorophenol  
Concen: 109.790 ng  
RT: 5.50 min Scan# 580  
Delta R.T. 0.01 min  
Lab File: BF112168.D  
Acq: 21 Jan 2019 19:39

Tgt Ion:112 Resp: 1428777  
Ion Ratio Lower Upper  
112 100  
64 56.8 45.7 68.5  
63 30.6 23.6 35.4



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: 89.763 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF112168.D

Acq: 21 Jan 2019 19:39

Instrument :

BNA\_F

ClientSampleId :

PL-01-011819-C

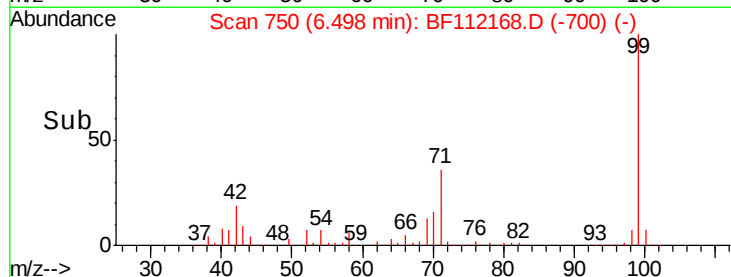
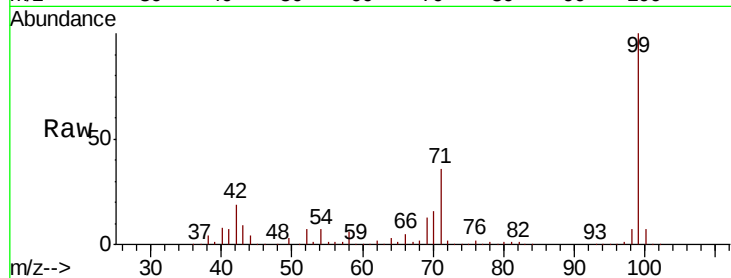
Tgt Ion: 99 Resp: 1461531

Ion Ratio Lower Upper

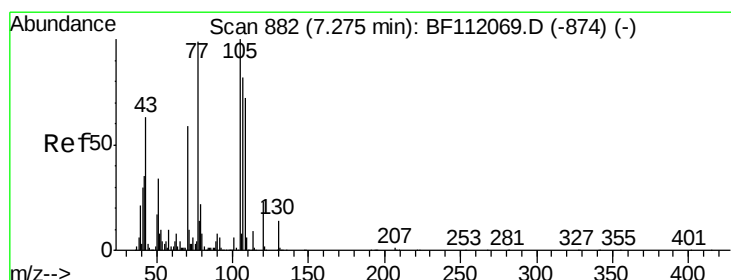
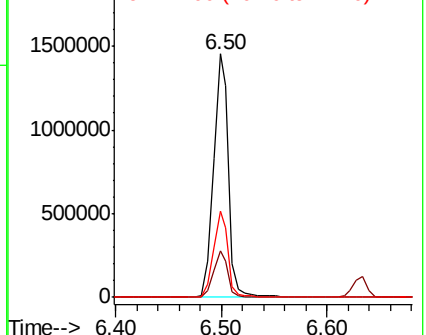
99 100

42 18.9 15.1 22.7

71 35.7 26.9 40.3



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: 16.621 ng

RT: 7.42 min Scan# 906

Delta R.T. 0.14 min

Lab File: BF112168.D

Acq: 21 Jan 2019 19:39

Tgt Ion: 70 Resp: 164870

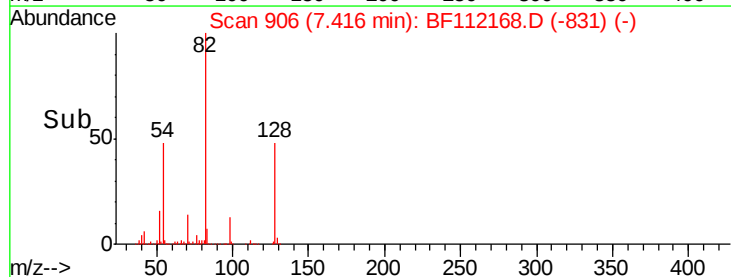
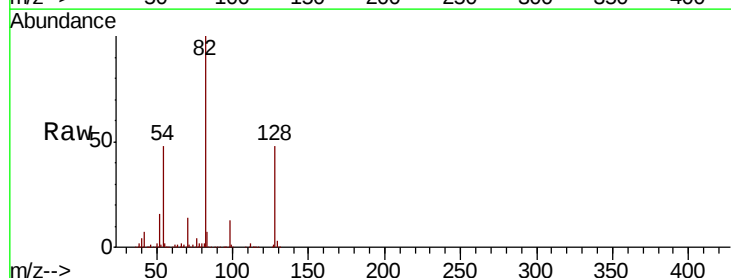
Ion Ratio Lower Upper

70 100

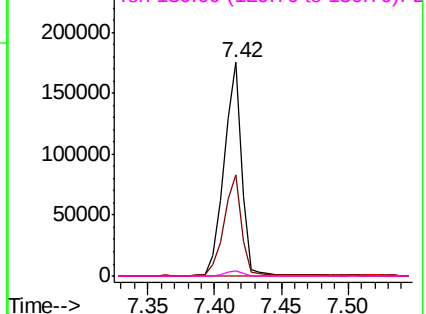
42 47.6 47.6 71.4#

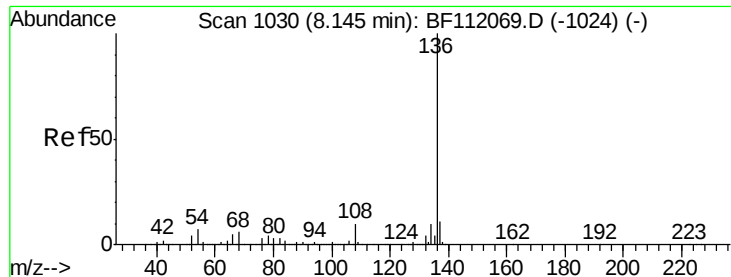
101 0.0 7.9 11.9#

130 2.2 18.4 27.6#



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

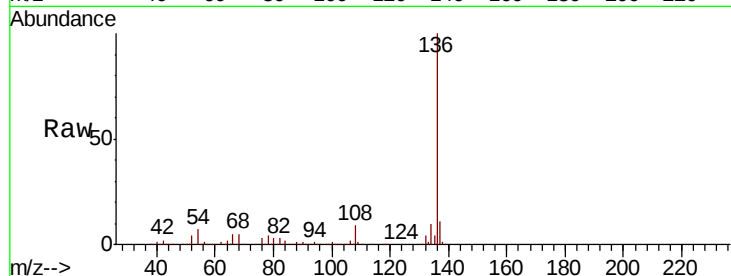




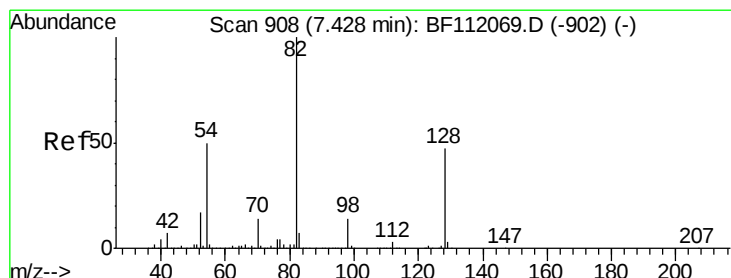
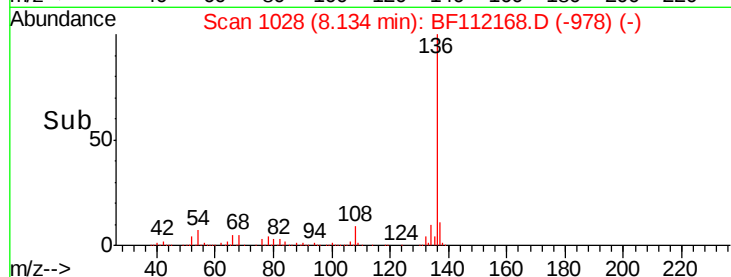
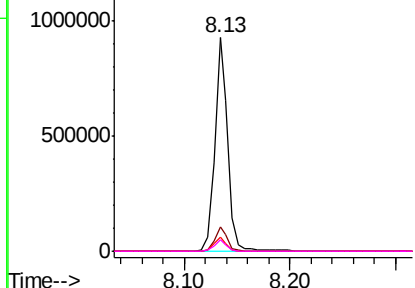
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1028  
Delta R.T. -0.01 min  
Lab File: BF112168.D  
Acq: 21 Jan 2019 19:39

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-011819-C

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 799318 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 9.1   | 13.7   |
| 54       | 6.6   | 5.9   | 8.9    |
| 68       | 5.3   | 5.1   | 7.7    |

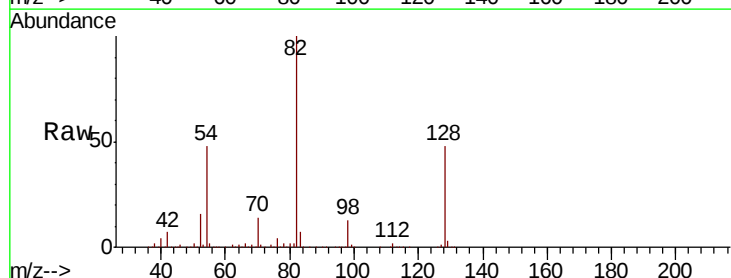


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

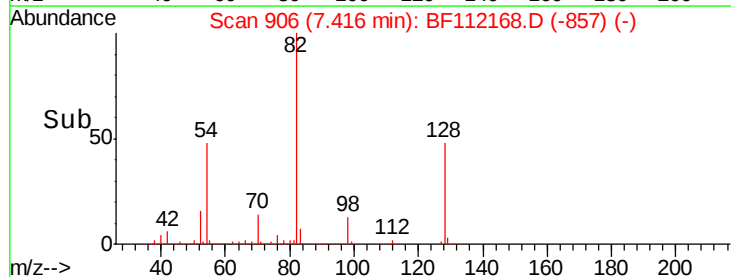
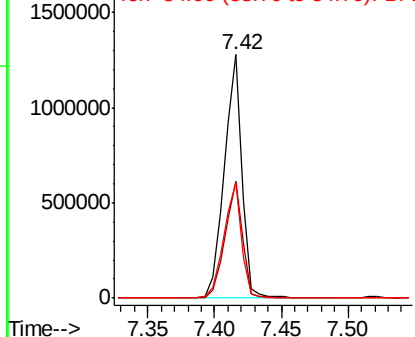


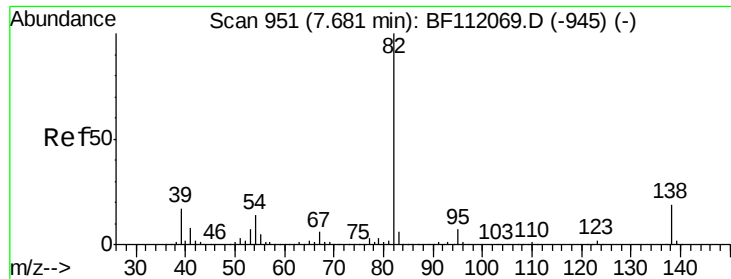
#23  
Nitrobenzene-d5  
Concen: 103.502 ng  
RT: 7.42 min Scan# 906  
Delta R.T. -0.01 min  
Lab File: BF112168.D  
Acq: 21 Jan 2019 19:39

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1197451 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 47.8  | 37.8  | 56.8    |
| 54       | 47.7  | 39.7  | 59.5    |



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

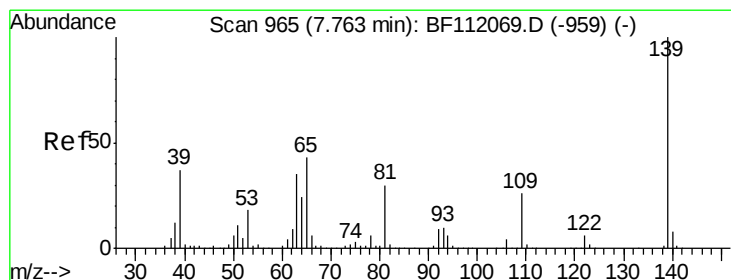
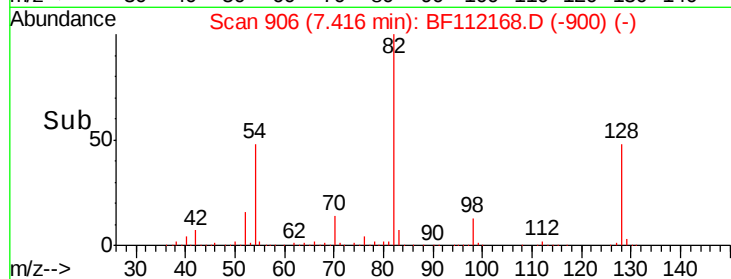
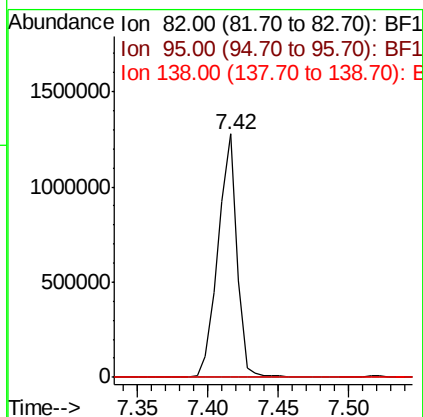
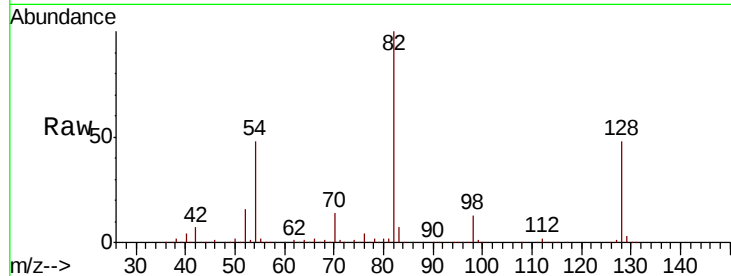




#25  
Isophorone  
Concen: 53.584 ng  
RT: 7.42 min Scan# 906  
Delta R.T. -0.26 min  
Lab File: BF112168.D  
Acq: 21 Jan 2019 19:39

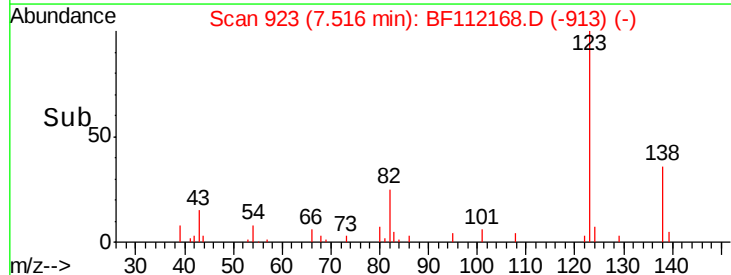
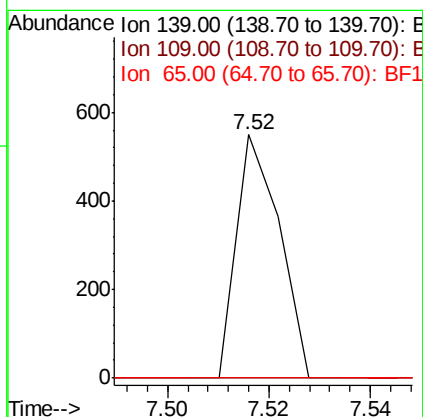
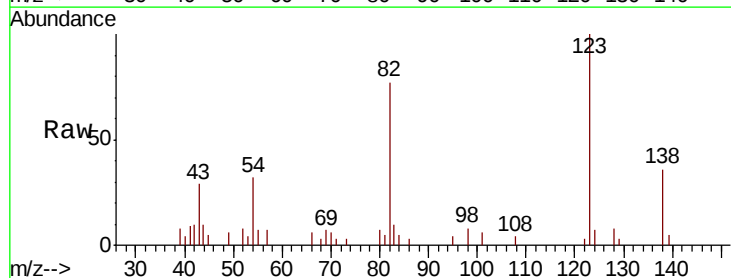
Instrument :  
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PL-01-011819-C

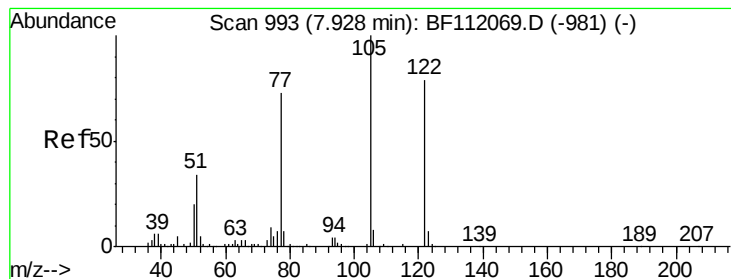
Tgt Ion: 82 Resp: 1197431  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 15.4 23.0#



#26  
2-Nitrophenol  
Concen: 5.726 ng  
RT: 7.52 min Scan# 923  
Delta R.T. -0.24 min  
Lab File: BF112168.D  
Acq: 21 Jan 2019 19:39

Tgt Ion: 139 Resp: 323  
Ion Ratio Lower Upper  
139 100  
109 0.0 20.8 31.2#  
65 0.0 34.4 51.6#





#32

Benzoic acid

Concen: 7.194 ng

RT: 7.93 min Scan# 994

Delta R.T. -0.01 min

Lab File: BF112168.D

Acq: 21 Jan 2019 19:39

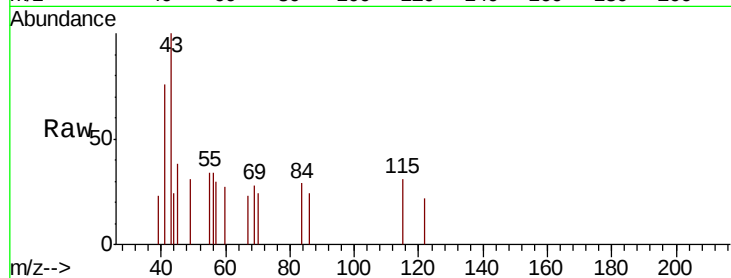
Instrument :

BNA\_F

ClientSampleId :

PL-01-011819-C

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 101.2 | 141.2# |
| 77      | 0.0   | 70.4  | 110.4# |

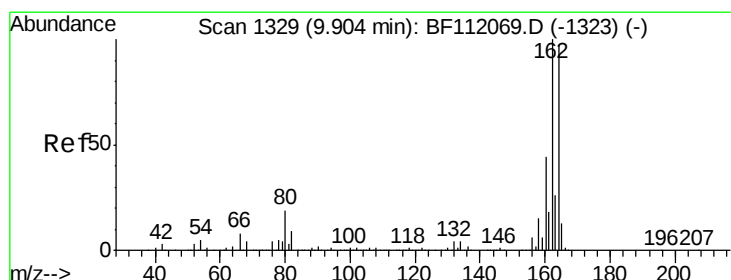
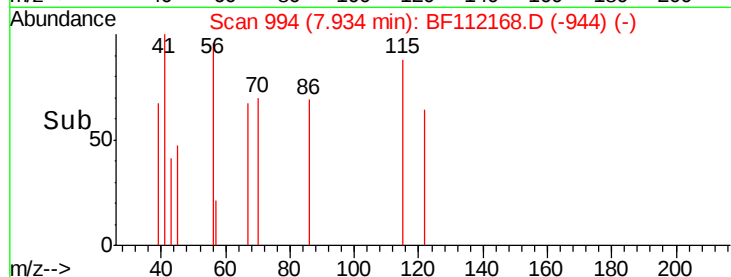
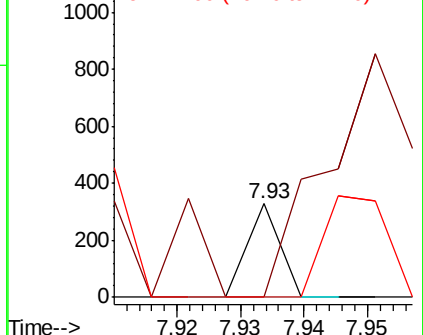


Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

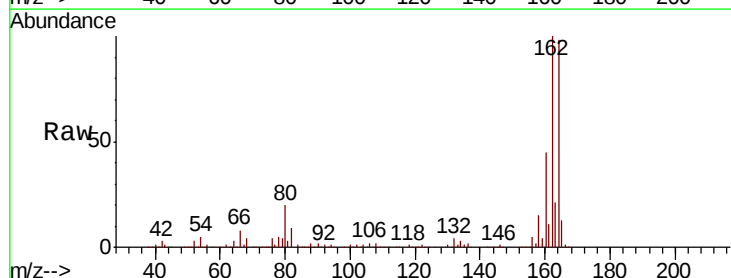
RT: 9.89 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BF112168.D

Acq: 21 Jan 2019 19:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.5 | 82.2  | 123.4 |
| 160     | 46.0  | 36.2  | 54.4  |

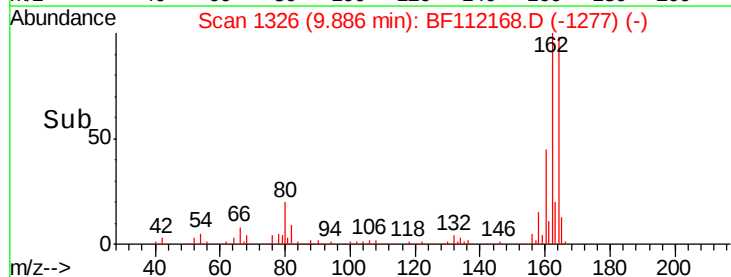
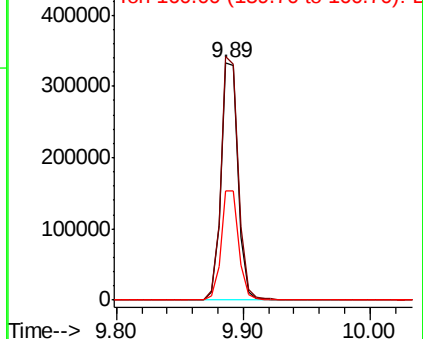


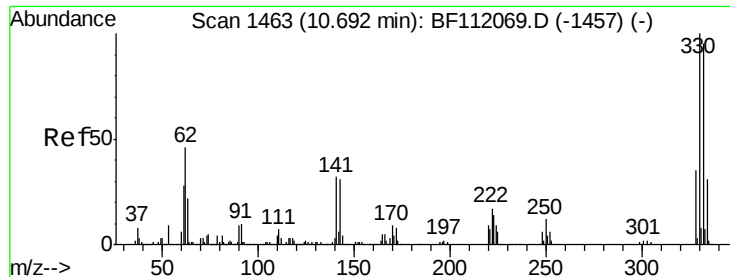
Abundance

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

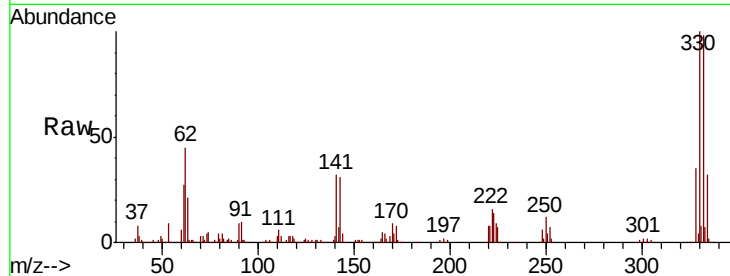




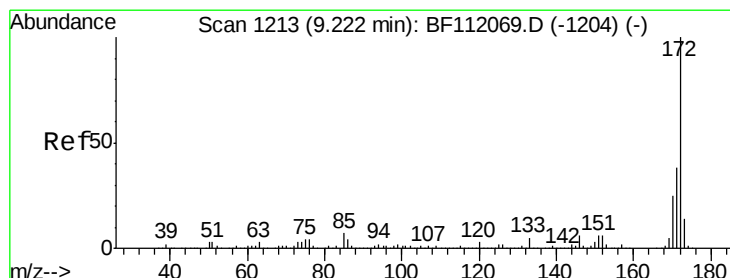
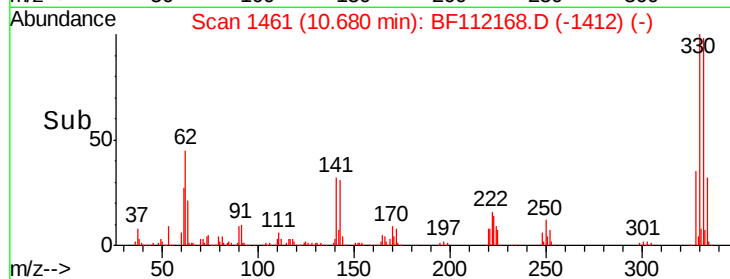
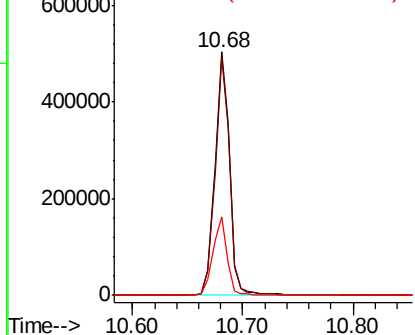
#42  
 2,4,6-Tribromophenol  
 Concen: 135.337 ng  
 RT: 10.68 min Scan# 1461  
 Delta R.T. -0.01 min  
 Lab File: BF112168.D  
 Acq: 21 Jan 2019 19:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-011819-C

Tgt Ion:330 Resp: 458208  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 76.6 114.8  
 141 30.9 24.3 36.5

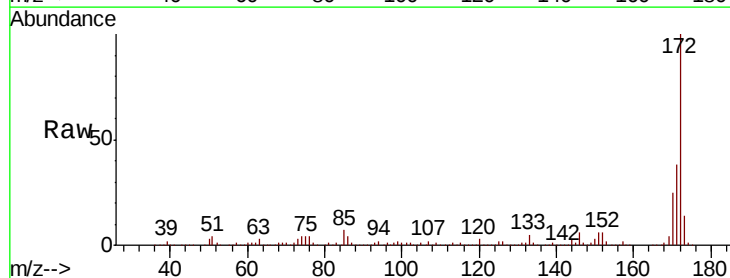


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

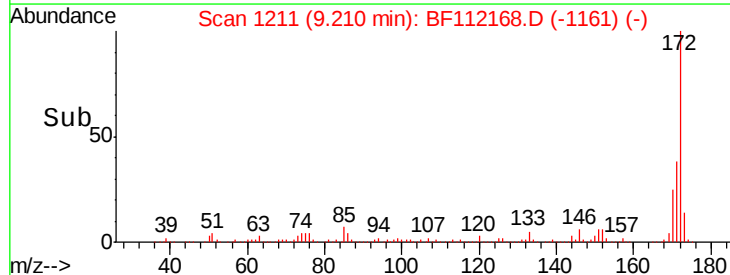
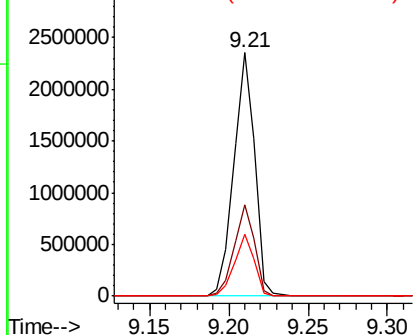


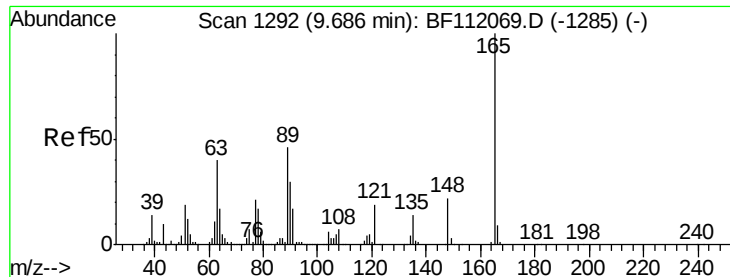
#45  
 2-Fluorobiphenyl  
 Concen: 100.484 ng  
 RT: 9.21 min Scan# 1211  
 Delta R.T. -0.01 min  
 Lab File: BF112168.D  
 Acq: 21 Jan 2019 19:39

Tgt Ion:172 Resp: 2151009  
 Ion Ratio Lower Upper  
 172 100  
 171 37.7 30.5 45.7  
 170 25.3 20.2 30.4



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

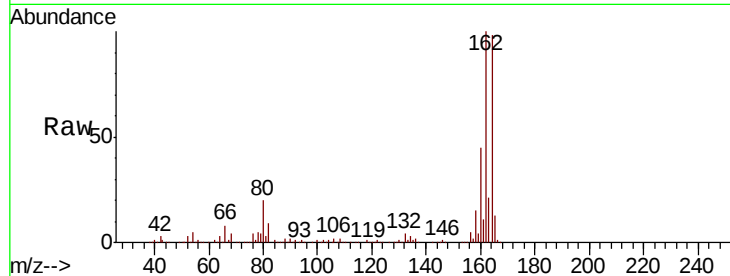




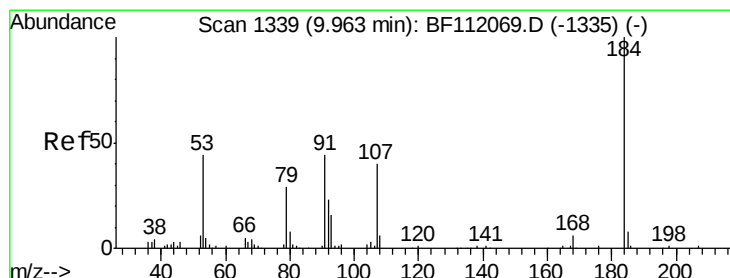
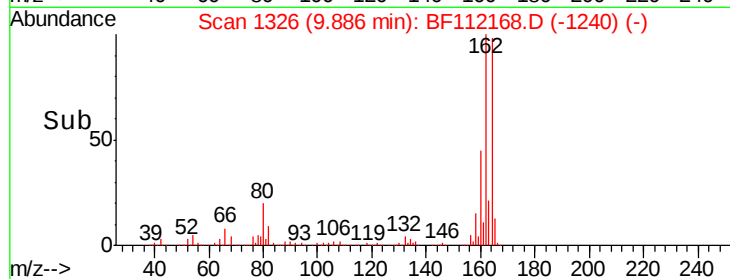
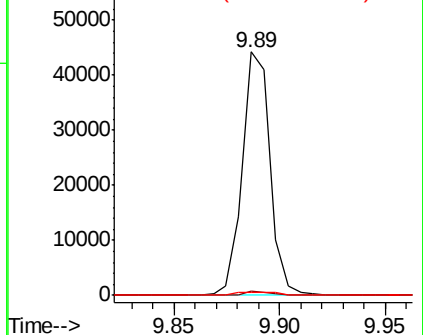
#51  
 2,6-Dinitrotoluene  
 Concen: 8.801 ng  
 RT: 9.89 min Scan# 1326  
 Delta R.T. 0.21 min  
 Lab File: BF112168.D  
 Acq: 21 Jan 2019 19:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-011819-C

Tgt Ion:165 Resp: 40229  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 33.8 50.8#  
 89 1.3 36.9 55.3#

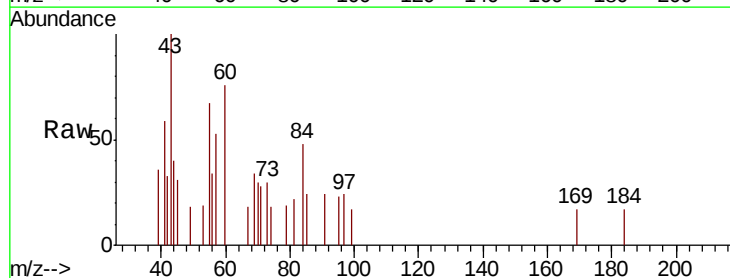


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

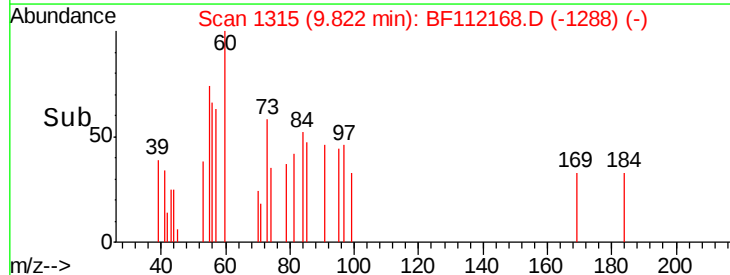
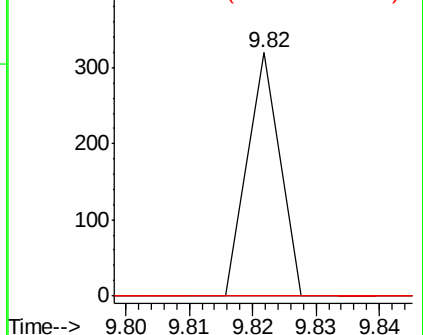


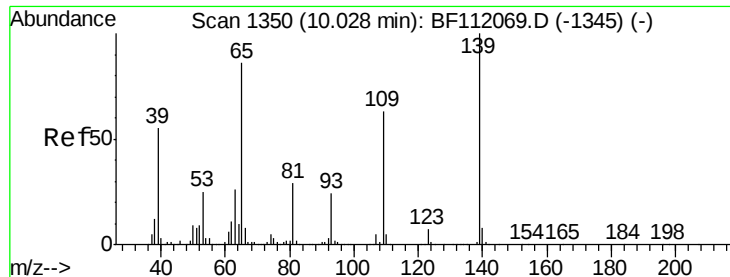
#54  
 2,4-Dinitrophenol  
 Concen: 7.855 ng  
 RT: 9.82 min Scan# 1315  
 Delta R.T. -0.14 min  
 Lab File: BF112168.D  
 Acq: 21 Jan 2019 19:39

Tgt Ion:184 Resp: 113  
 Ion Ratio Lower Upper  
 184 100  
 63 0.0 47.1 70.7#  
 154 0.0 48.9 73.3#



Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 154.00 (153.70 to 154.70): E





#56

4-Nitrophenol

Concen: 5.757 ng

RT: 10.10 min Scan# 1362

Delta R.T. 0.07 min

Lab File: BF112168.D

Acq: 21 Jan 2019 19:39

Instrument :

BNA\_F

ClientSampleId :

PL-01-011819-C

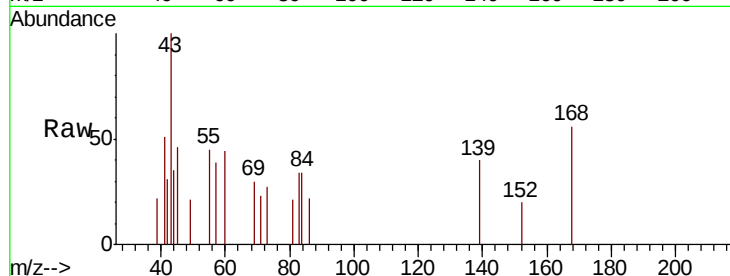
Tgt Ion:139 Resp: 402

Ion Ratio Lower Upper

139 100

109 0.0 42.8 82.8#

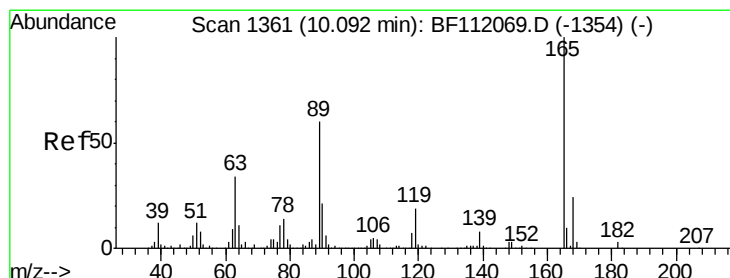
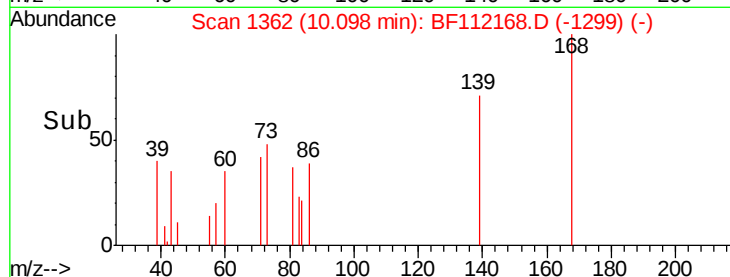
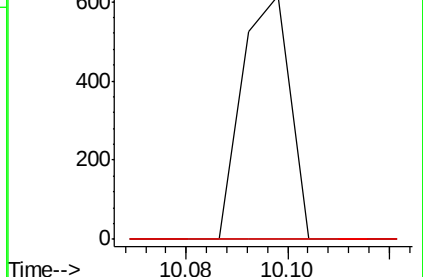
65 0.0 66.1 106.1#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57

2,4-Dinitrotoluene

Concen: 10.783 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.20 min

Lab File: BF112168.D

Acq: 21 Jan 2019 19:39

Tgt Ion:165 Resp: 40229

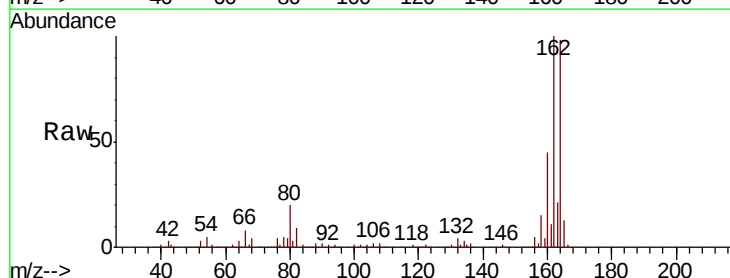
Ion Ratio Lower Upper

165 100

63 1.7 27.9 41.9#

89 1.3 47.9 71.9#

182 0.0 2.2 3.4#

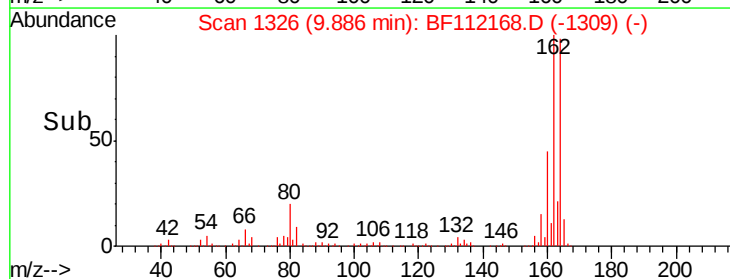
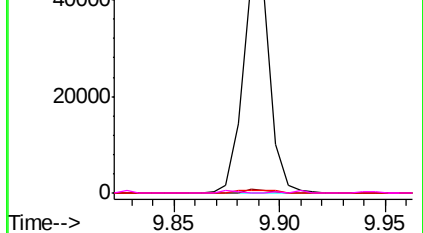


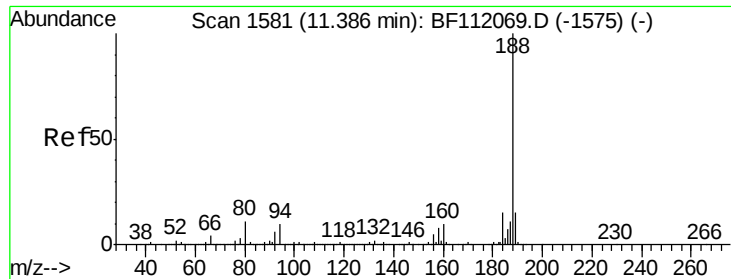
Abundance Ion 165.00 (164.70 to 165.70): E

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

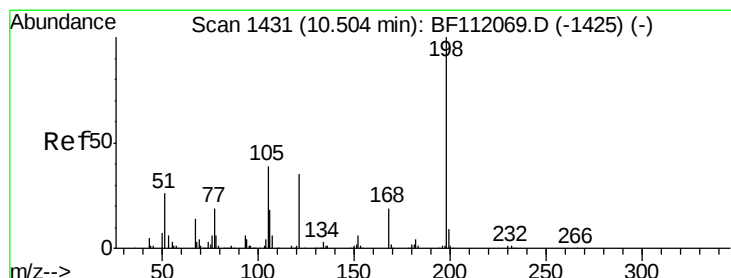
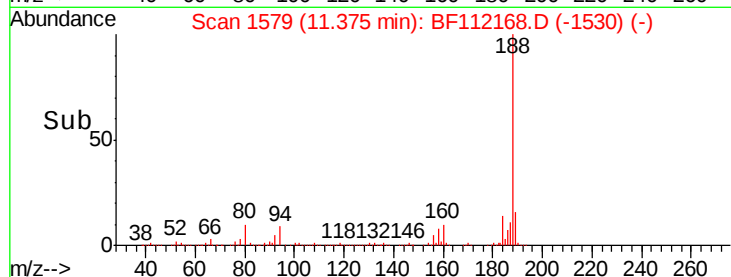
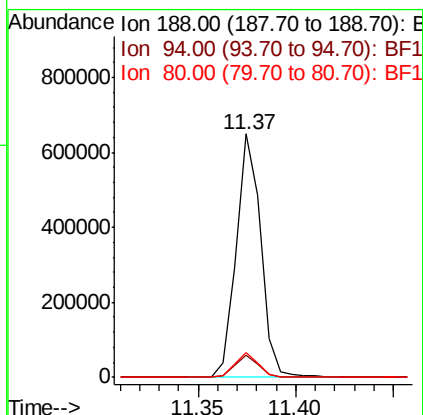
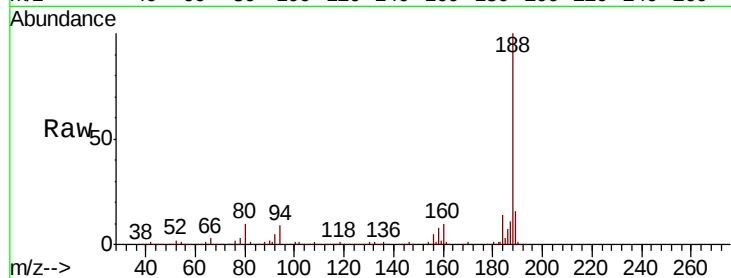




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.37 min Scan# 1579  
Delta R.T. -0.01 min  
Lab File: BF112168.D  
Acq: 21 Jan 2019 19:39

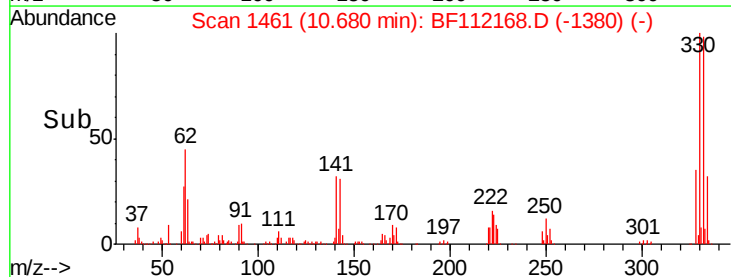
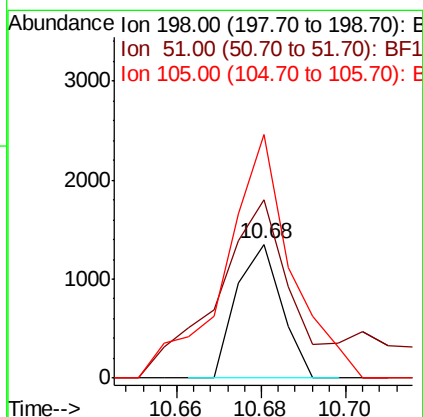
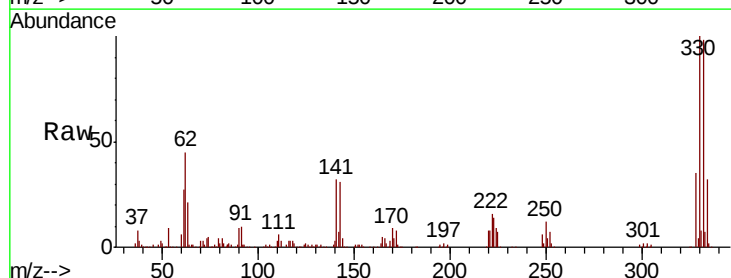
Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-011819-C

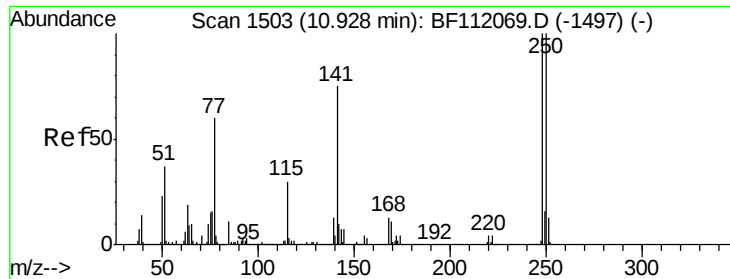
Tgt Ion:188 Resp: 566880  
Ion Ratio Lower Upper  
188 100  
94 9.1 8.2 12.2  
80 9.9 8.9 13.3



#65  
4,6-Dinitro-2-methylphenol  
Concen: 10.404 ng  
RT: 10.68 min Scan# 1461  
Delta R.T. 0.18 min  
Lab File: BF112168.D  
Acq: 21 Jan 2019 19:39

Tgt Ion:198 Resp: 1000  
Ion Ratio Lower Upper  
198 100  
51 132.7 17.2 57.2#  
105 181.8 21.9 61.9#

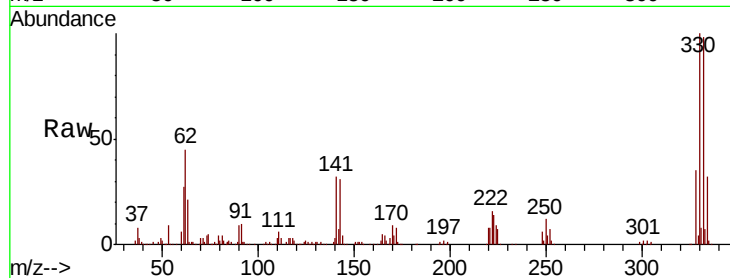




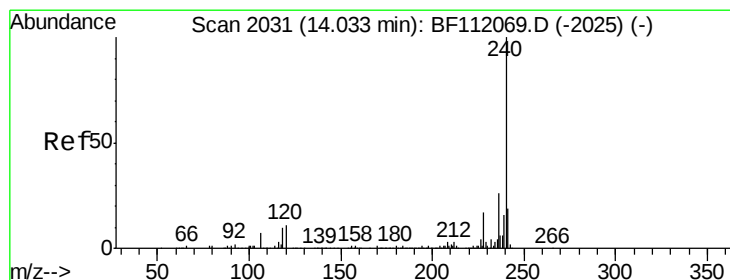
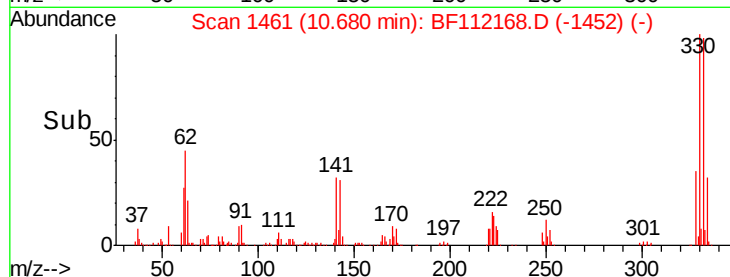
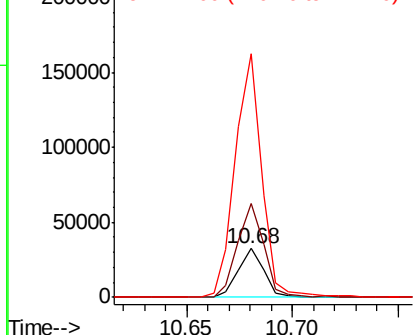
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.155 ng  
 RT: 10.68 min Scan# 1461  
 Delta R.T. -0.25 min  
 Lab File: BF112168.D  
 Acq: 21 Jan 2019 19:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-011819-C

Tgt Ion:248 Resp: 27357  
 Ion Ratio Lower Upper  
 248 100  
 250 191.9 79.7 119.5#  
 141 497.3 60.3 90.5#

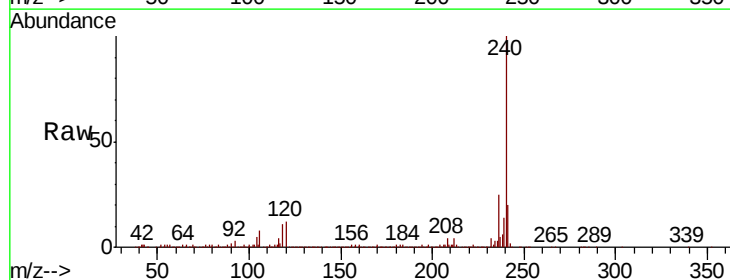


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

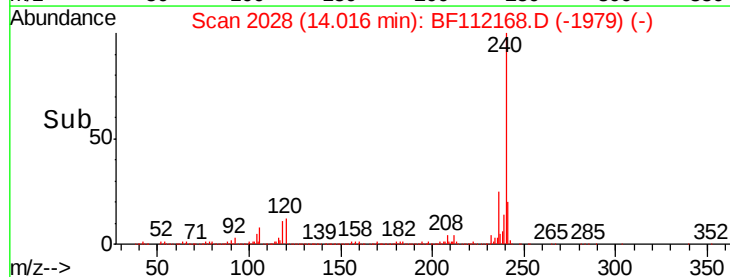
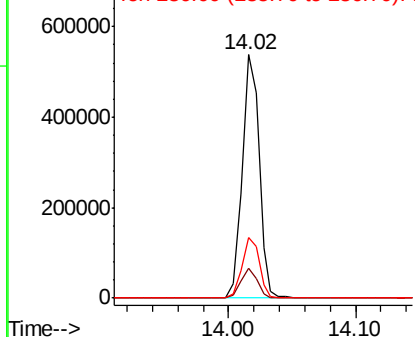


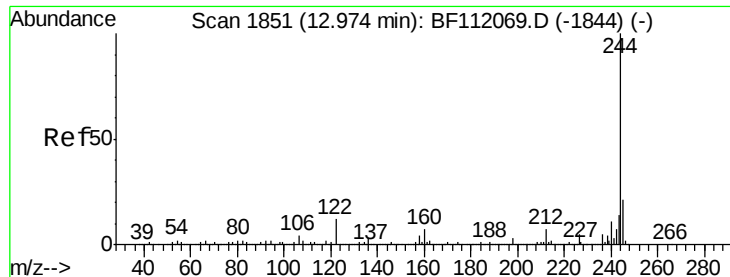
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.02 min Scan# 2028  
 Delta R.T. -0.01 min  
 Lab File: BF112168.D  
 Acq: 21 Jan 2019 19:39

Tgt Ion:240 Resp: 493123  
 Ion Ratio Lower Upper  
 240 100  
 120 12.1 9.0 13.6  
 236 25.1 20.7 31.1



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: 97.216 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF112168.D

Acq: 21 Jan 2019 19:39

Instrument :

BNA\_F

ClientSampleId :

PL-01-011819-C

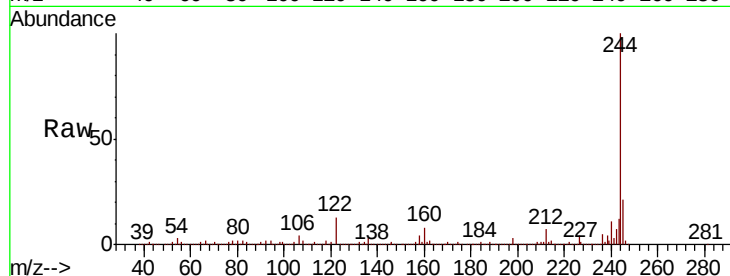
Tgt Ion:244 Resp: 2253460

Ion Ratio Lower Upper

244 100

212 7.4 5.9 8.9

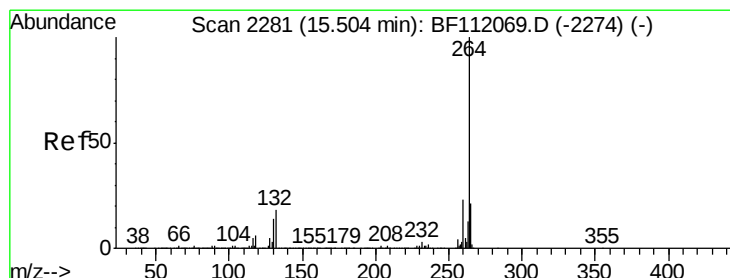
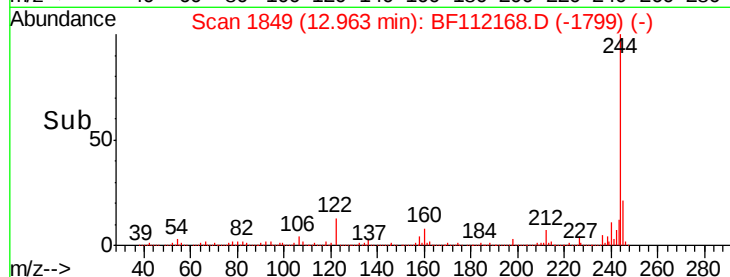
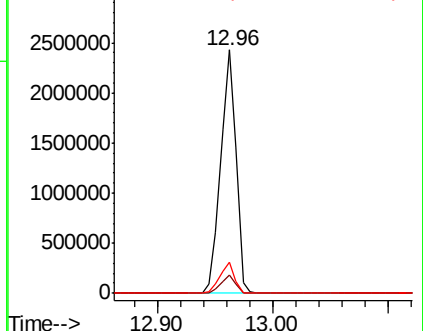
122 12.7 9.8 14.6



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: 15.49 min Scan# 2279

Delta R.T. -0.01 min

Lab File: BF112168.D

Acq: 21 Jan 2019 19:39

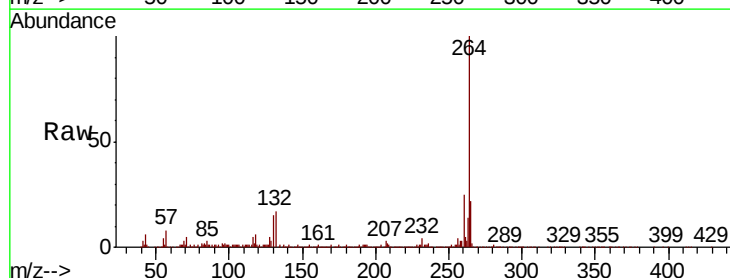
Tgt Ion:264 Resp: 350631

Ion Ratio Lower Upper

264 100

260 24.7 18.2 27.2

265 22.3 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

