

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF110518\  
 Data File : BF110478.D  
 Acq On : 5 Nov 2018 21:12  
 Operator : JU/SJ  
 Sample : J5815-03  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HL-R47183-RT

Quant Time: Nov 06 00:55:55 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF102318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 01 16:06:12 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.95  | 152  | 97454    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.24  | 136  | 389852   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 10.00 | 164  | 155571   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.49 | 188  | 236203   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.13 | 240  | 180200   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.66 | 264  | 134336   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.58  | 112  | 414828   | 69.32 | ng    | 0.00     |
| 7) Phenol-d6                | 6.58  | 99   | 534584   | 69.84 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 331062   | 50.37 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.79 | 330  | 94141    | 61.09 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.31  | 172  | 593783   | 59.93 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.07 | 244  | 407452   | 47.02 | ng    | 0.00     |

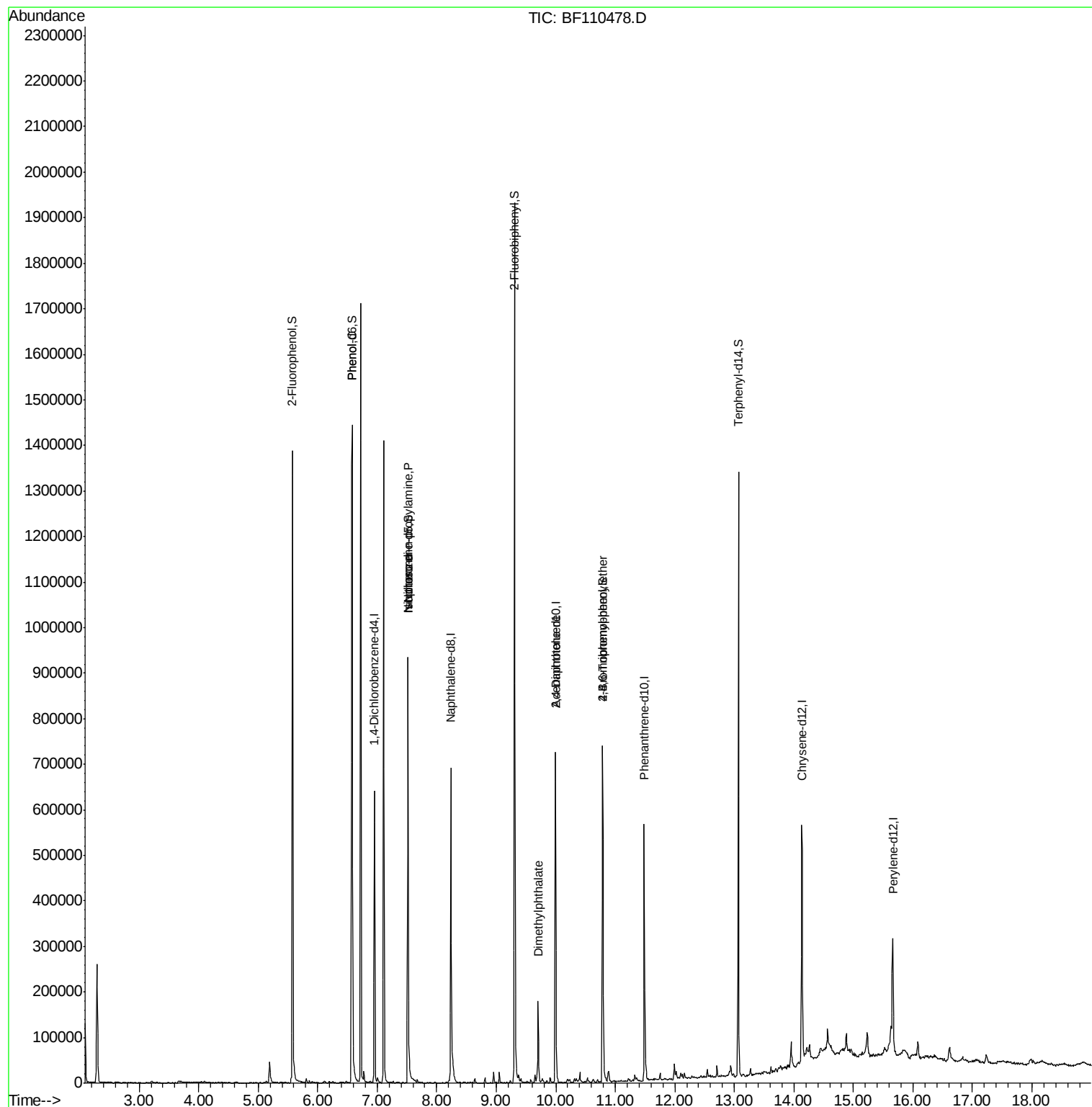
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.57  | 77   | 1132     | Below Cal |       | # 1    |
| 10) Phenol                     | 6.59  | 94   | 40653    | 4.968     | ng    | # 76   |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 43707    | 8.900     | ng    | # 78   |
| 25) Isophorone                 | 7.52  | 82   | 331060   | 29.548    | ng    | # 67   |
| 50) Dimethylphthalate          | 9.70  | 163  | 87029    | 7.578     | ng    | # 99   |
| 57) 2,4-Dinitrotoluene         | 10.00 | 165  | 19954    | 6.351     | ng    | # 19   |
| 67) 4-Bromophenyl-phenylether  | 10.79 | 248  | 5565     | 2.172     | ng    | # 1    |
| 77) Benzidine                  | 13.07 | 184  | 5092     | Below Cal |       | # 97   |

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

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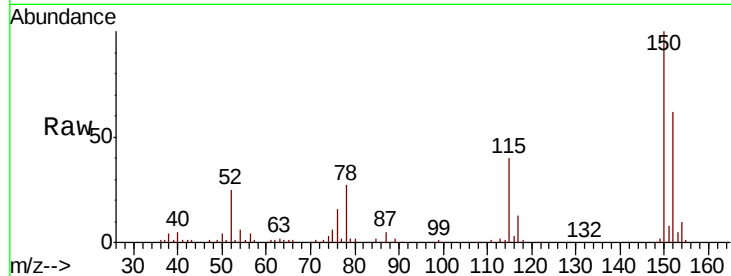




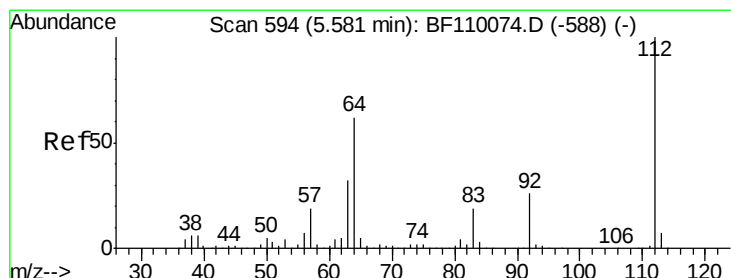
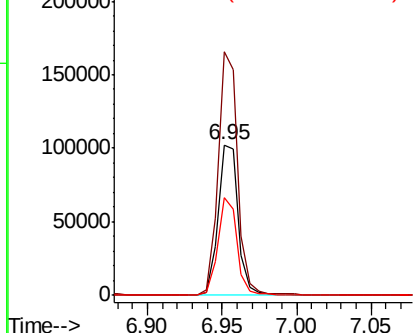
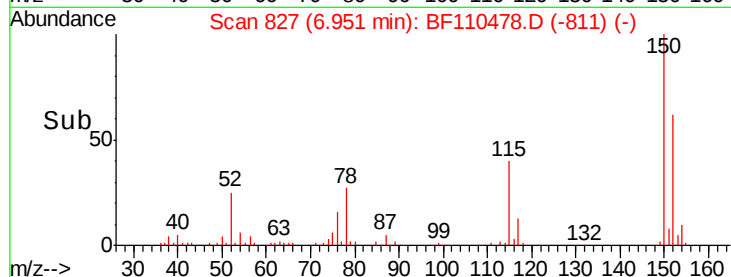
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.95 min Scan# 827  
 Delta R.T. -0.01 min  
 Lab File: BF110478.D  
 Acq: 5 Nov 2018 21:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HL-R47183-RT

Tgt Ion:152 Resp: 97454  
 Ion Ratio Lower Upper  
 152 100  
 150 161.8 122.7 184.1  
 115 64.8 49.1 73.7

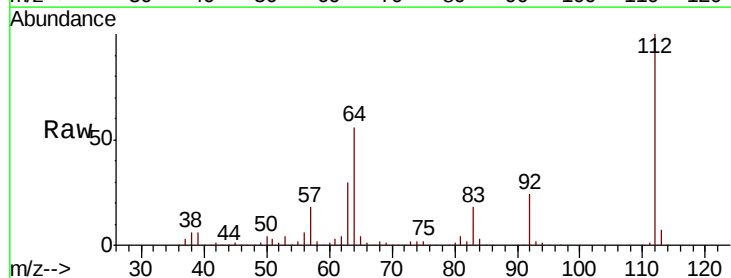


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

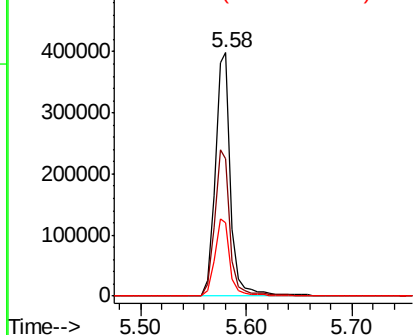
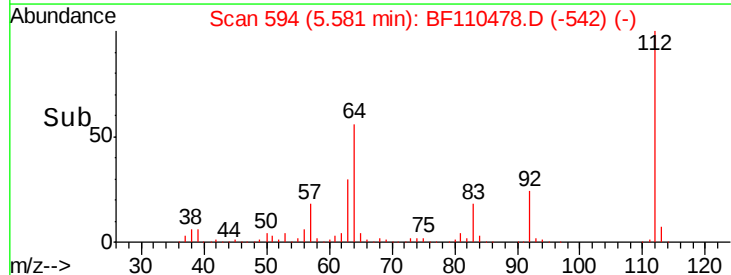


#5  
 2-Fluorophenol  
 Concen: 69.318 ng  
 RT: 5.58 min Scan# 594  
 Delta R.T. 0.01 min  
 Lab File: BF110478.D  
 Acq: 5 Nov 2018 21:12

Tgt Ion:112 Resp: 414828  
 Ion Ratio Lower Upper  
 112 100  
 64 56.3 44.1 66.1  
 63 30.3 23.7 35.5



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: 69.838 ng

RT: 6.58 min Scan# 764

Delta R.T. 0.00 min

Lab File: BF110478.D

Acq: 5 Nov 2018 21:12

Instrument :

BNA\_F

ClientSampleId :

HL-R47183-RT

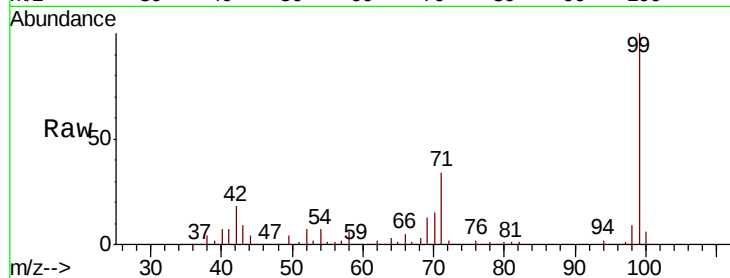
Tgt Ion: 99 Resp: 534584

Ion Ratio Lower Upper

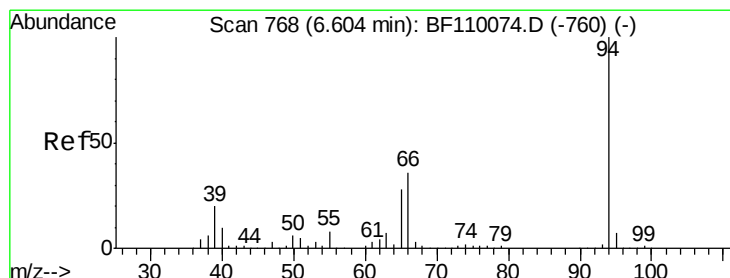
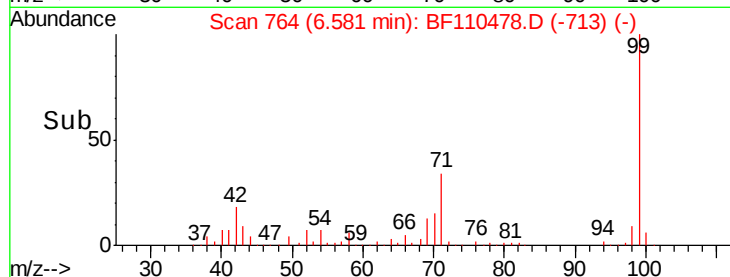
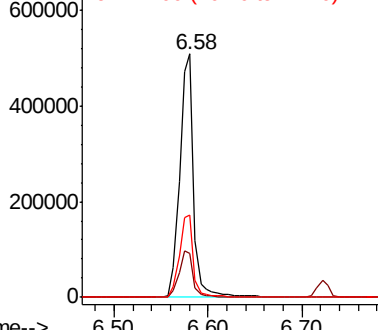
99 100

42 18.2 15.8 23.6

71 33.7 28.0 42.0



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



#10

Phenol

Concen: 4.968 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF110478.D

Acq: 5 Nov 2018 21:12

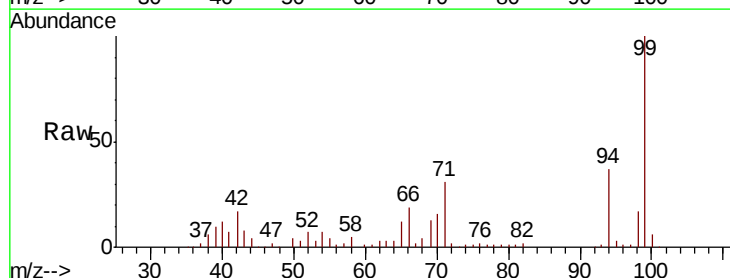
Tgt Ion: 94 Resp: 40653

Ion Ratio Lower Upper

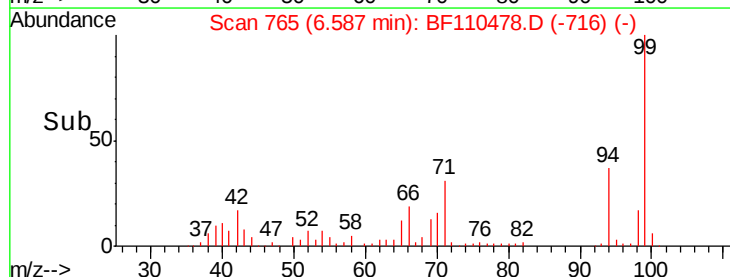
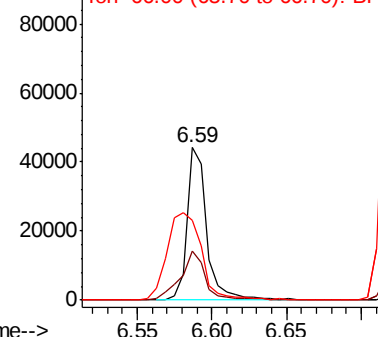
94 100

65 32.0 25.3 65.3

66 52.4 54.5 94.5#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

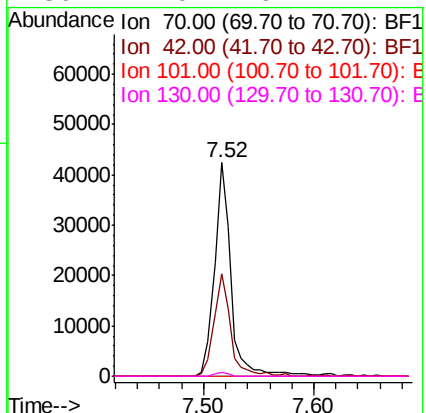
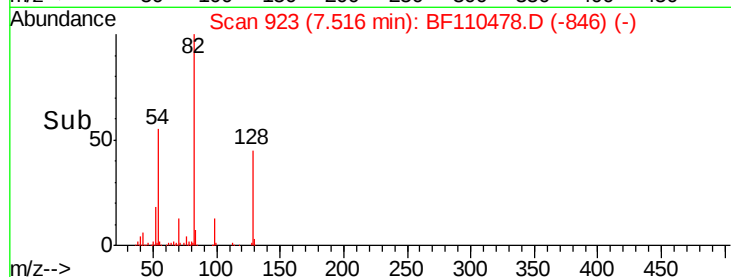
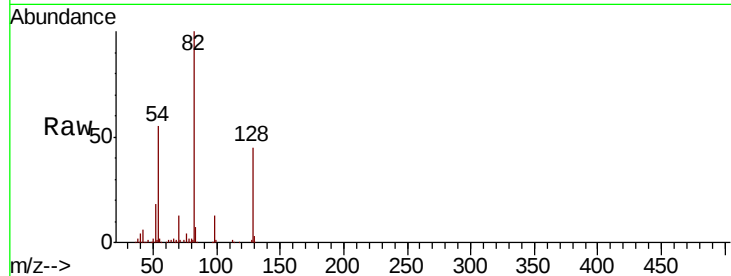




#19  
n-Nitroso-di-n-propylamine  
Concen: 8.900 ng  
RT: 7.52 min Scan# 923  
Delta R.T. 0.15 min  
Lab File: BF110478.D  
Acq: 5 Nov 2018 21:12

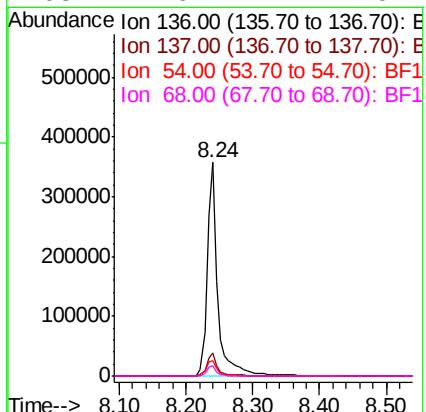
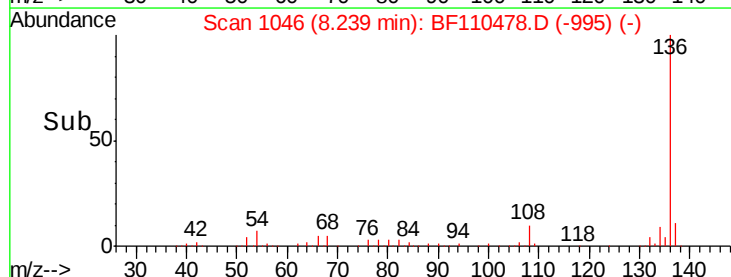
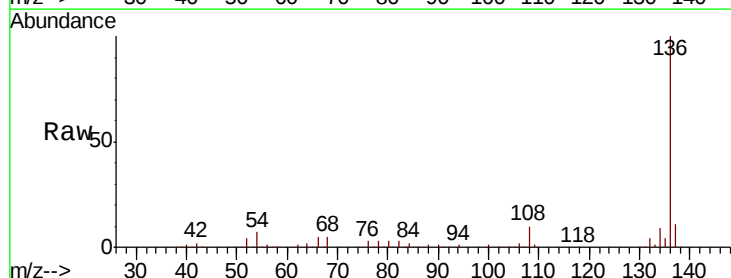
Instrument :  
BNA\_F  
ClientSampleId :  
HL-R47183-RT

Tgt Ion: 70 Resp: 43707  
Ion Ratio Lower Upper  
70 100  
42 47.9 47.4 71.2  
101 0.0 7.3 10.9#  
130 2.0 16.2 24.2#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.24 min Scan# 1046  
Delta R.T. 0.00 min  
Lab File: BF110478.D  
Acq: 5 Nov 2018 21:12

Tgt Ion: 136 Resp: 389852  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.8 13.2  
54 7.4 5.4 8.2  
68 4.6 4.2 6.2

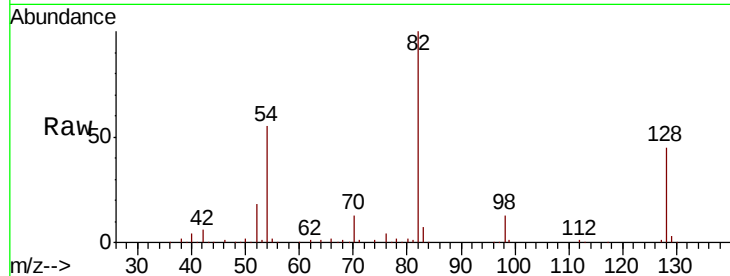




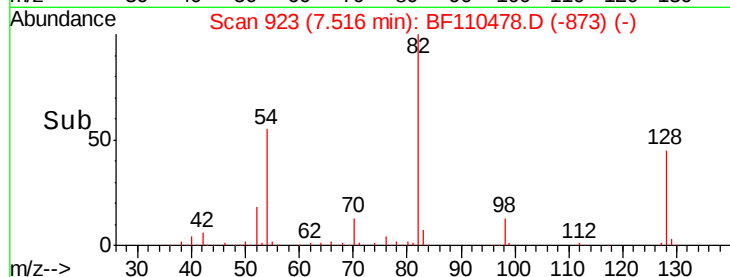
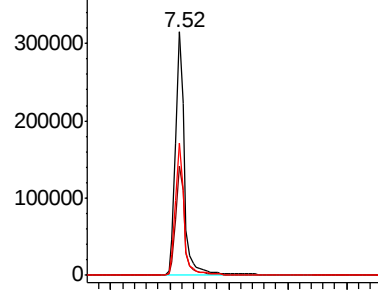
#23  
 Nitrobenzene-d5  
 Concen: 50.369 ng  
 RT: 7.52 min Scan# 923  
 Delta R.T. -0.01 min  
 Lab File: BF110478.D  
 Acq: 5 Nov 2018 21:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HL-R47183-RT

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.9  | 34.2  | 51.2  |
| 54      | 54.6  | 38.6  | 58.0  |

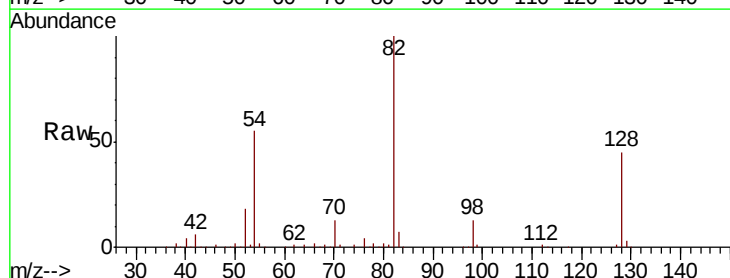


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

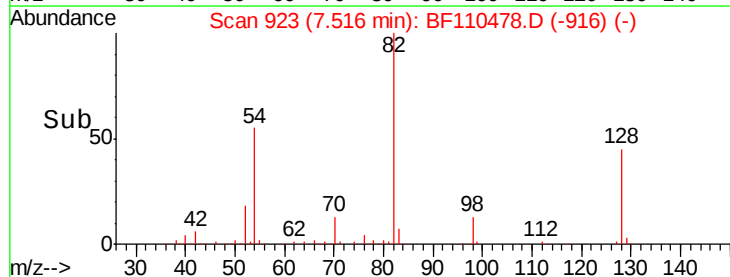
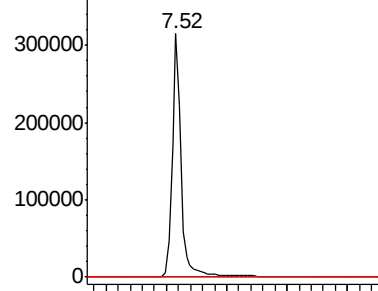


#25  
 Isophorone  
 Concen: 29.548 ng  
 RT: 7.52 min Scan# 923  
 Delta R.T. -0.26 min  
 Lab File: BF110478.D  
 Acq: 5 Nov 2018 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 5.7   | 8.5#  |
| 138     | 0.0   | 13.2  | 19.8# |



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: 10.00 min Scan# 1345

Delta R.T. 0.00 min

Lab File: BF110478.D

Acq: 5 Nov 2018 21:12

Instrument :

BNA\_F

ClientSampleId :

HL-R47183-RT

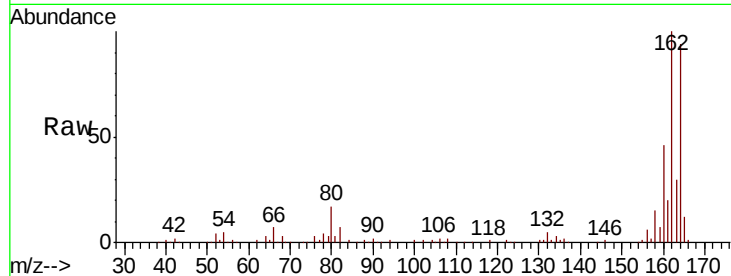
Tgt Ion:164 Resp: 155571

Ion Ratio Lower Upper

164 100

162 106.8 83.0 124.6

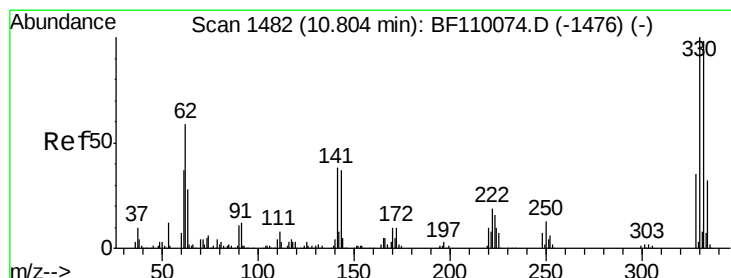
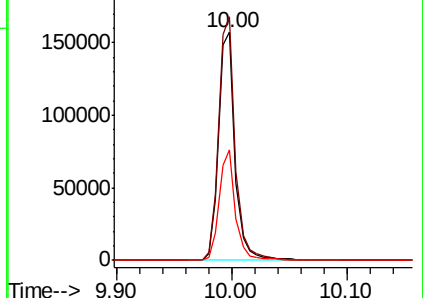
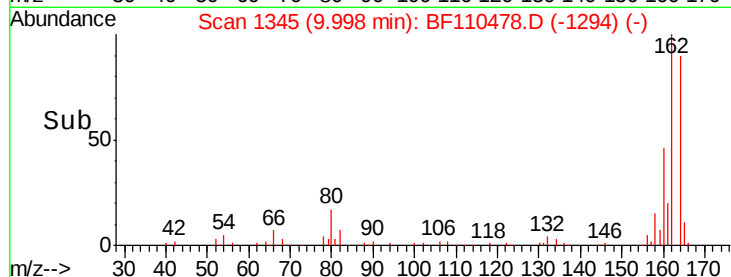
160 48.7 37.0 55.6



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: 61.090 ng

RT: 10.79 min Scan# 1479

Delta R.T. -0.01 min

Lab File: BF110478.D

Acq: 5 Nov 2018 21:12

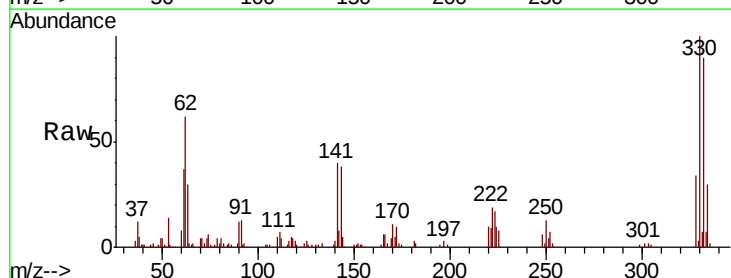
Tgt Ion:330 Resp: 94141

Ion Ratio Lower Upper

330 100

332 91.1 77.1 115.7

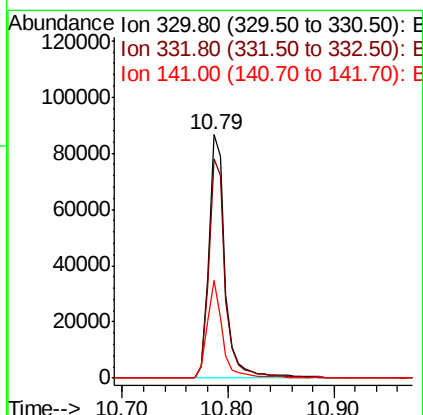
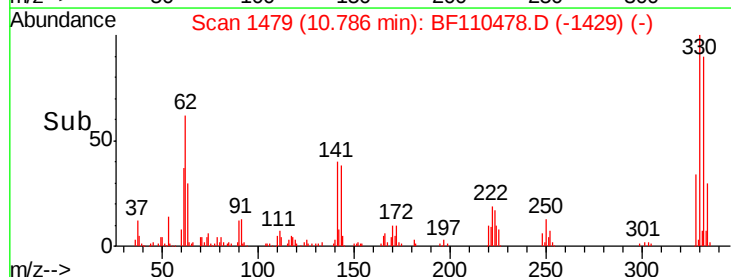
141 36.9 27.0 40.4



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

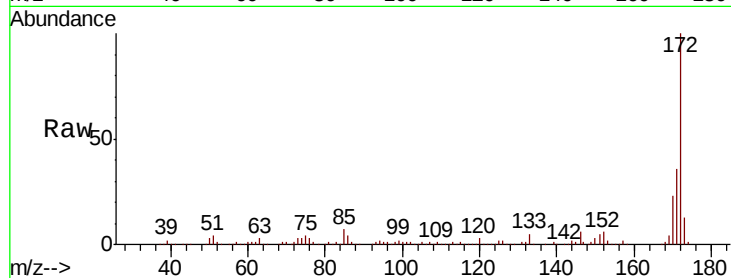




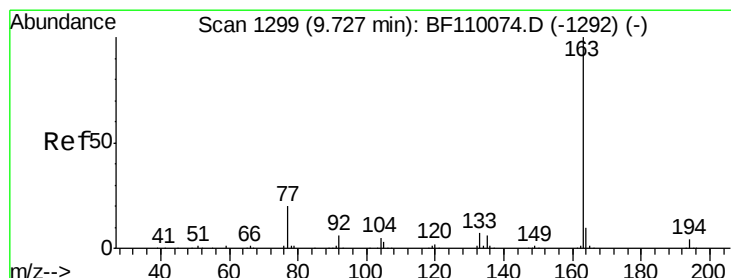
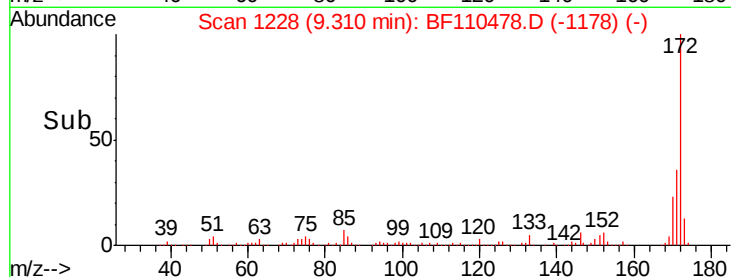
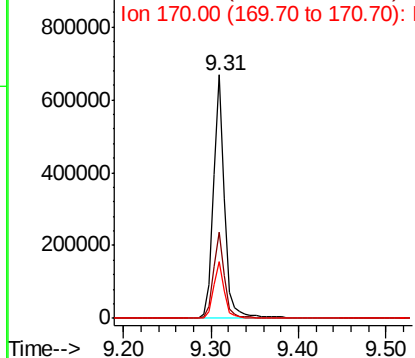
#45  
 2-Fluorobiphenyl  
 Concen: 59.934 ng  
 RT: 9.31 min Scan# 1228  
 Delta R.T. -0.01 min  
 Lab File: BF110478.D  
 Acq: 5 Nov 2018 21:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HL-R47183-RT

Tgt Ion:172 Resp: 593783  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 28.6 43.0  
 170 23.4 19.7 29.5

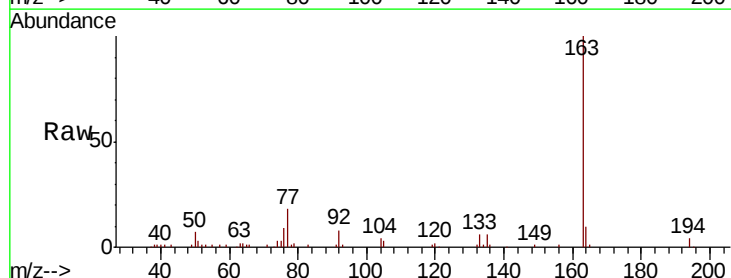


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

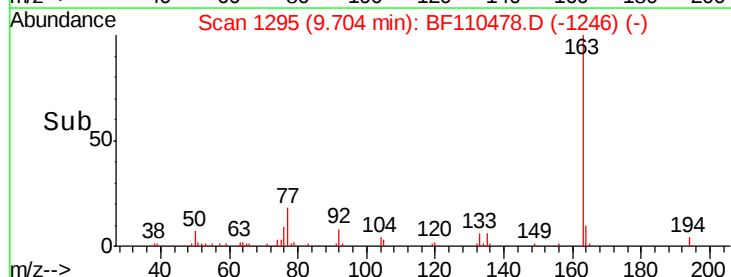
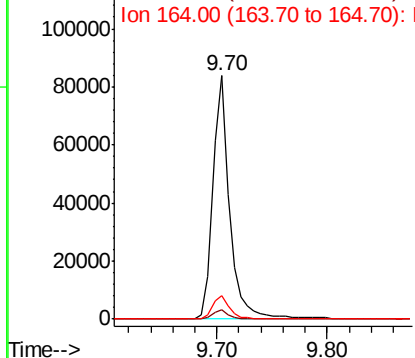


#50  
 Dimethylphthalate  
 Concen: 7.578 ng  
 RT: 9.70 min Scan# 1295  
 Delta R.T. -0.01 min  
 Lab File: BF110478.D  
 Acq: 5 Nov 2018 21:12

Tgt Ion:163 Resp: 87029  
 Ion Ratio Lower Upper  
 163 100  
 194 3.7 3.2 4.8  
 164 9.6 8.1 12.1



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

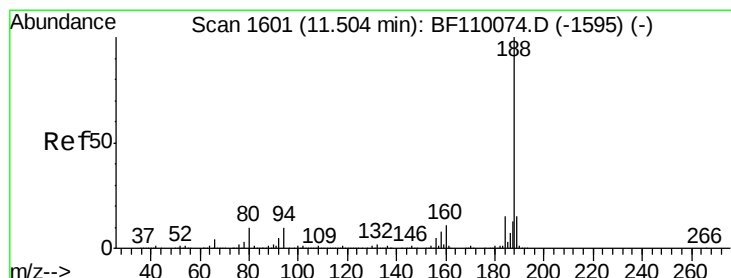
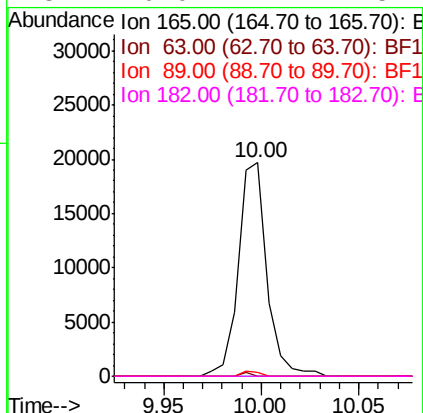
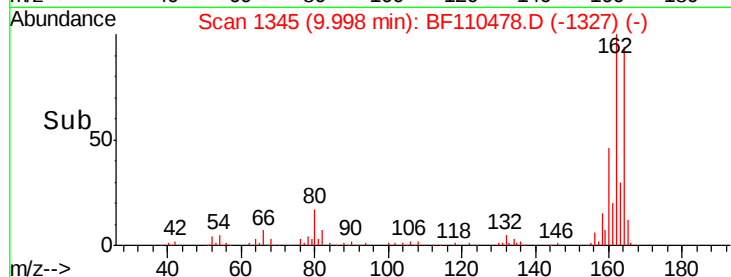
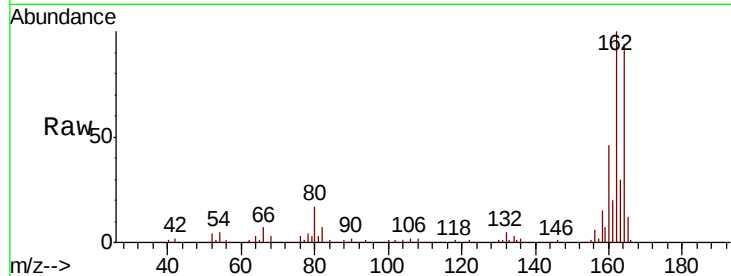




#57  
2,4-Dinitrotoluene  
Concen: 6.351 ng  
RT: 10.00 min Scan# 1345  
Delta R.T. -0.19 min  
Lab File: BF110478.D  
Acq: 5 Nov 2018 21:12

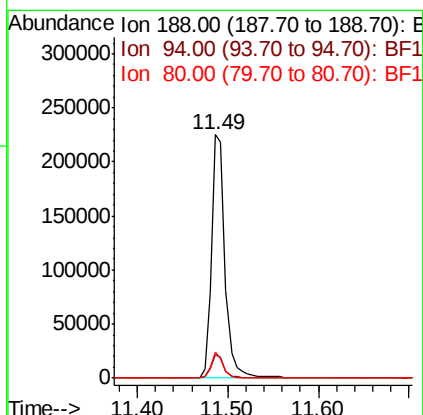
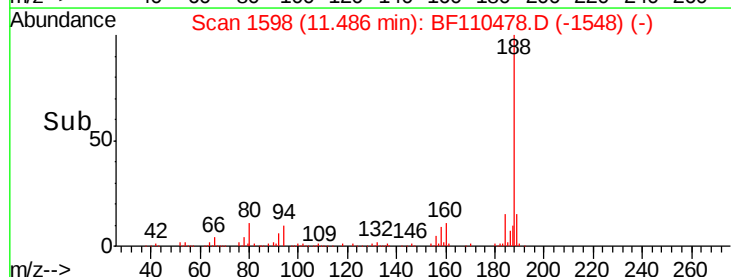
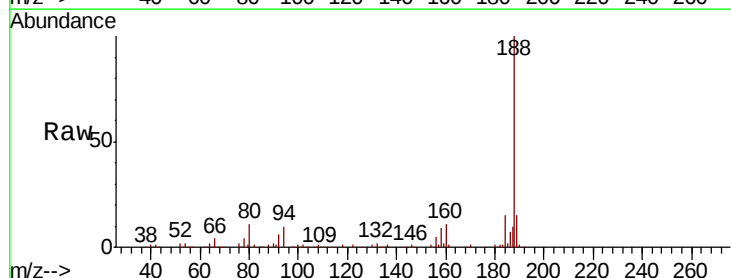
Instrument :  
BNA\_F  
ClientSampleId :  
HL-R47183-RT

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 19954 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 44.8  | 67.2# |
| 89       | 2.0   | 62.2  | 93.4# |
| 182      | 0.0   | 2.1   | 3.1#  |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.49 min Scan# 1598  
Delta R.T. -0.01 min  
Lab File: BF110478.D  
Acq: 5 Nov 2018 21:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 236203 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.8   | 7.2   | 10.8   |
| 80       | 10.6  | 7.9   | 11.9   |

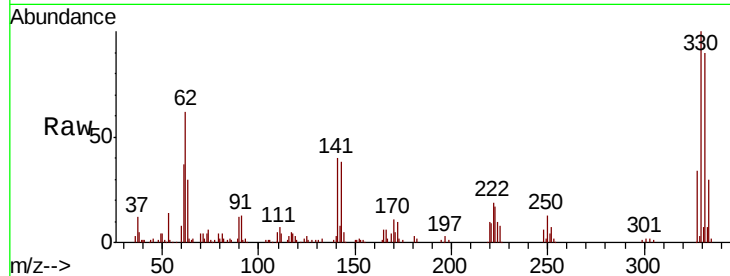




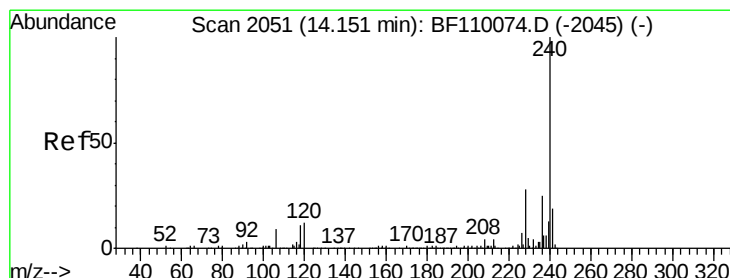
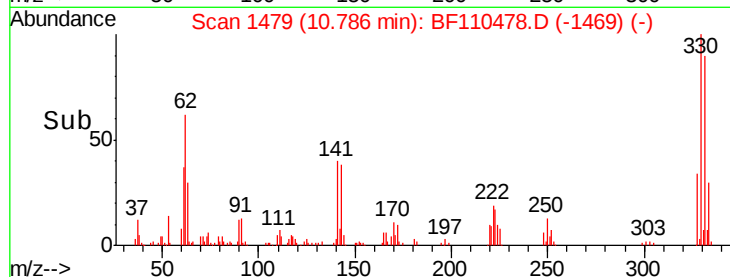
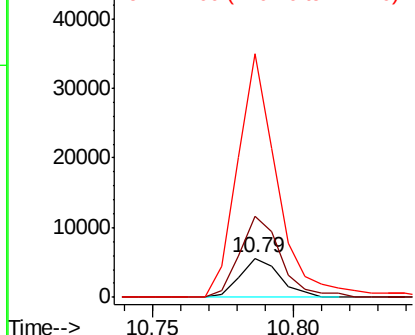
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.172 ng  
 RT: 10.79 min Scan# 1479  
 Delta R.T. -0.24 min  
 Lab File: BF110478.D  
 Acq: 5 Nov 2018 21:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HL-R47183-RT

Tgt Ion:248 Resp: 5565  
 Ion Ratio Lower Upper  
 248 100  
 250 207.3 79.4 119.2#  
 141 627.2 55.9 83.9#

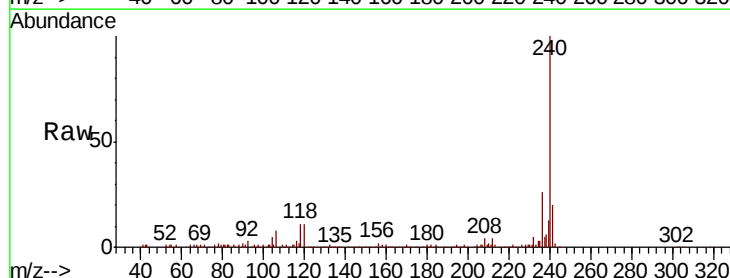


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

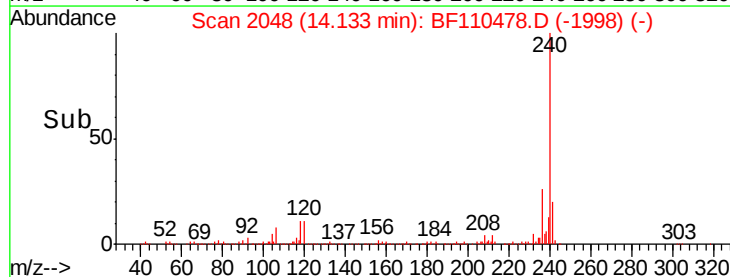
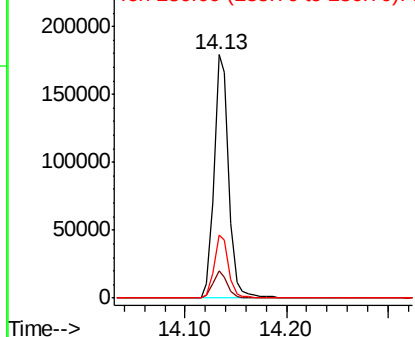


#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.13 min Scan# 2048  
 Delta R.T. -0.01 min  
 Lab File: BF110478.D  
 Acq: 5 Nov 2018 21:12

Tgt Ion:240 Resp: 180200  
 Ion Ratio Lower Upper  
 240 100  
 120 11.1 8.3 12.5  
 236 25.9 21.2 31.8



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: 47.025 ng

RT: 13.07 min Scan# 1867

Delta R.T. -0.01 min

Lab File: BF110478.D

Acq: 5 Nov 2018 21:12

Instrument :

BNA\_F

ClientSampleId :

HL-R47183-RT

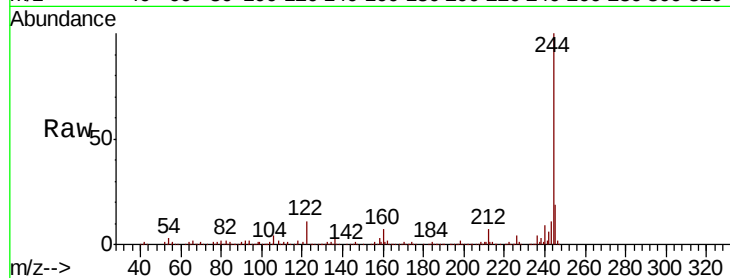
Tgt Ion:244 Resp: 407452

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.8

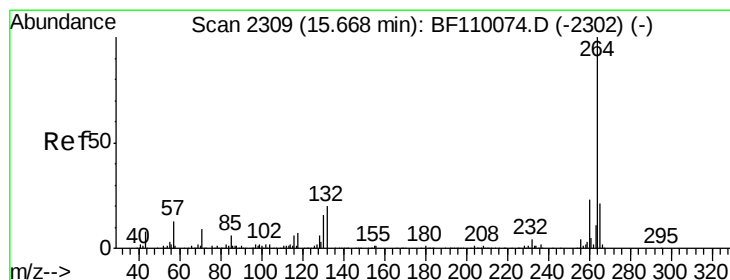
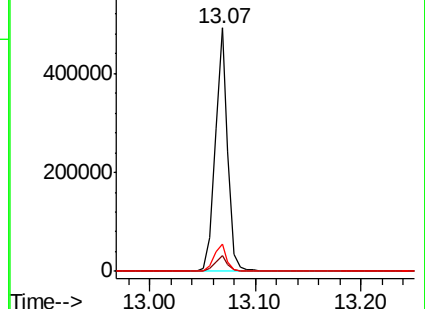
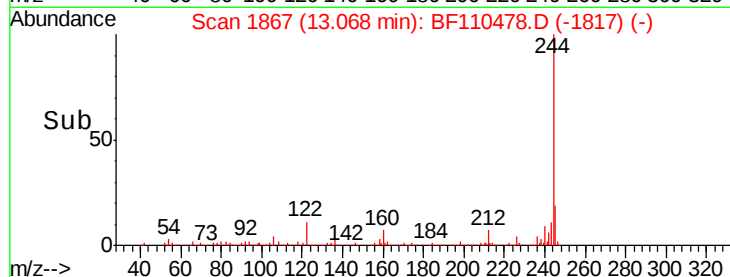
122 11.0 8.7 13.1



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: 15.66 min Scan# 2308

Delta R.T. 0.01 min

Lab File: BF110478.D

Acq: 5 Nov 2018 21:12

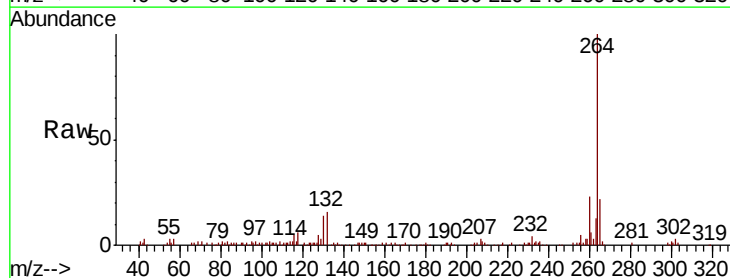
Tgt Ion:264 Resp: 134336

Ion Ratio Lower Upper

264 100

260 23.4 18.7 28.1

265 21.5 16.7 25.1



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

