

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082520\  
 Data File : BF121440.D  
 Acq On : 25 Aug 2020 21:47  
 Operator : JU/CG  
 Sample : L3788-03 20X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 1794

Quant Time: Aug 26 00:45:04 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 20 04:56:10 2020  
 Response via : Initial Calibration

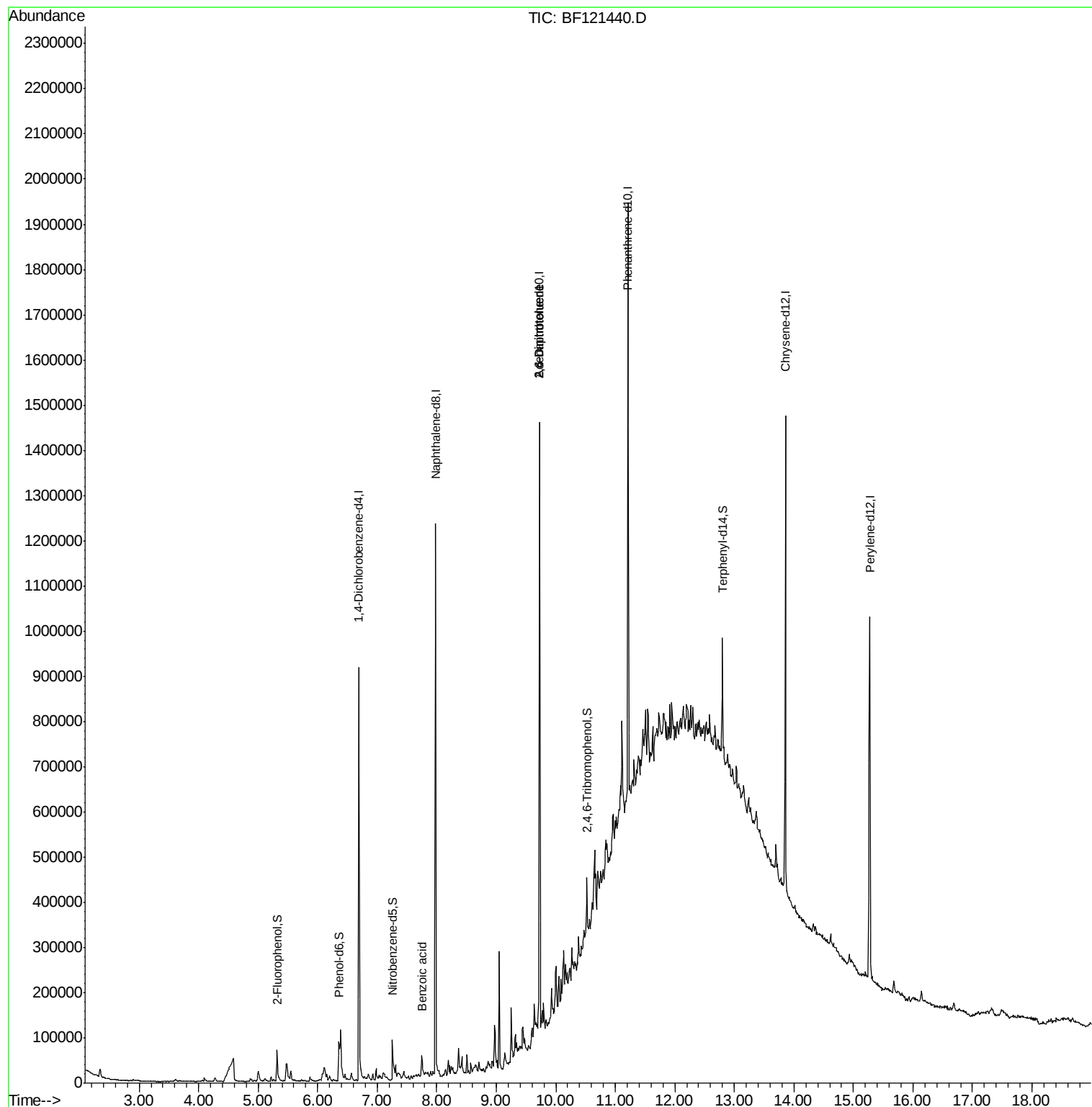
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.69  | 152  | 139435   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.98  | 136  | 555468   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.73  | 164  | 290962   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.22 | 188  | 513421   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 13.86 | 240  | 359671   | 20.00     | ng    | 0.01     |
| 86) Perylene-d12               | 15.27 | 264  | 381421   | 20.00     | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.32  | 112  | 31914    | 3.75      | ng    | 0.02     |
| 7) Phenol-d6                   | 6.36  | 99   | 31663    | 2.92      | ng    | 0.02     |
| 23) Nitrobenzene-d5            | 7.26  | 82   | 30564    | 3.11      | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.52 | 330  | 15311    | 4.52      | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.05  | 172  | 74178    | -9.47     | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.80 | 244  | 73371    | 3.99      | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 20) 3+4-Methylphenols          | 7.14  | 107  | 1178     | Below Cal | #     | 77       |
| 32) Benzoic acid               | 7.75  | 122  | 14379    | 9.206     | ng    | 97       |
| 51) 2,6-Dinitrotoluene         | 9.73  | 165  | 38751    | 8.572     | ng    | # 31     |
| 55) Dibenzofuran               | 9.93  | 168  | 641      | Below Cal | #     | 1        |
| 57) 2,4-Dinitrotoluene         | 9.73  | 165  | 39429    | 7.149     | ng    | # 26     |
| 58) Fluorene                   | 10.29 | 166  | 2433     | Below Cal | #     | 1        |
| 61) 4-Chlorophenyl-phenylether | 10.28 | 204  | 385      | Below Cal | #     | 1        |

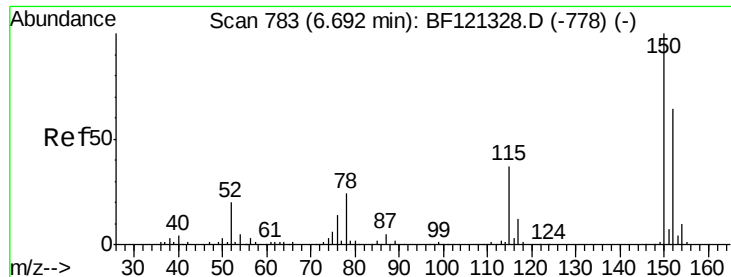
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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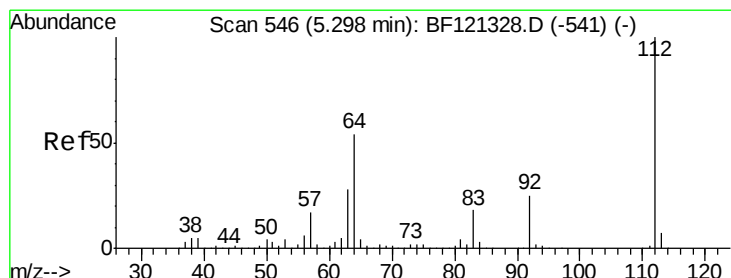
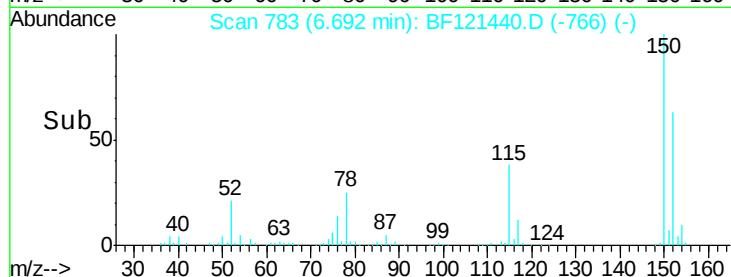
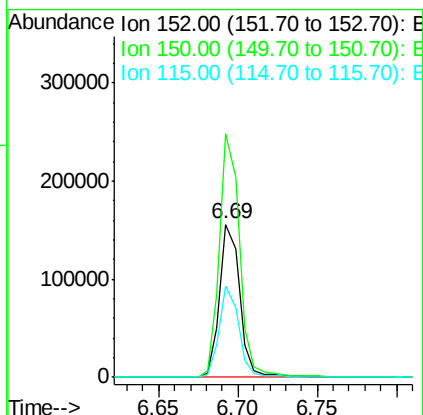
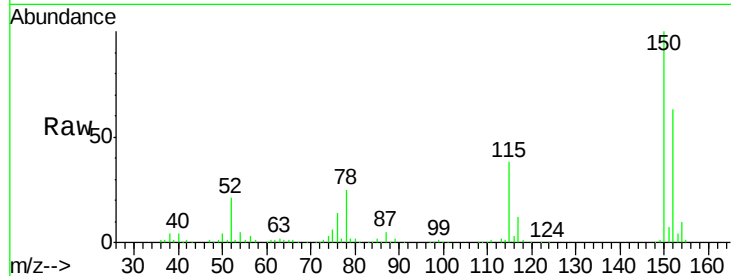


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.69 min Scan# 783  
Delta R.T. 0.00 min  
Lab File: BF121440.D  
Acq: 25 Aug 2020 21:47

Instrument :  
BNA\_F  
ClientSampleId :  
1794

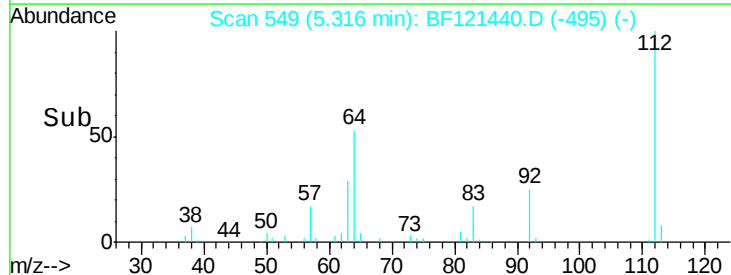
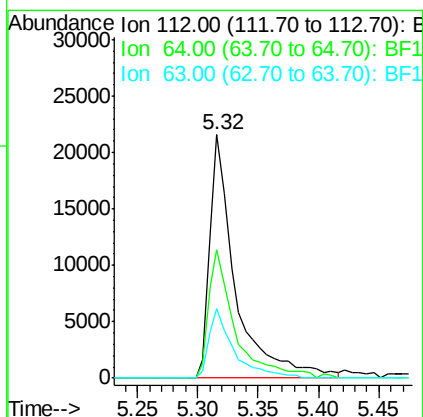
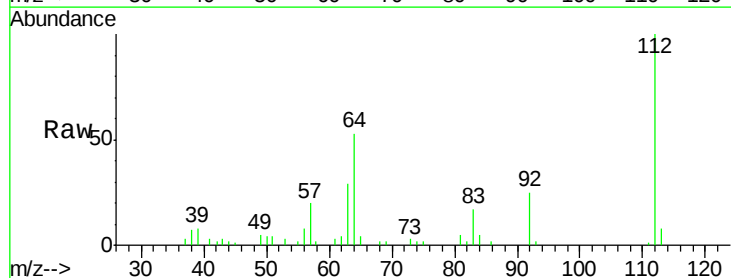
Tot Ion:152 Resp: 139435  
Ion Ratio Lower Upper  
152 100  
150 158.9 124.8 187.2  
115 59.8 46.1 69.1

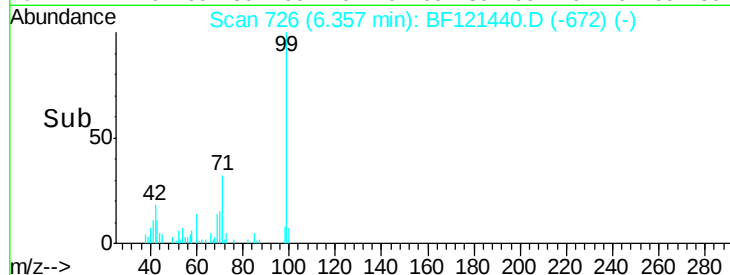
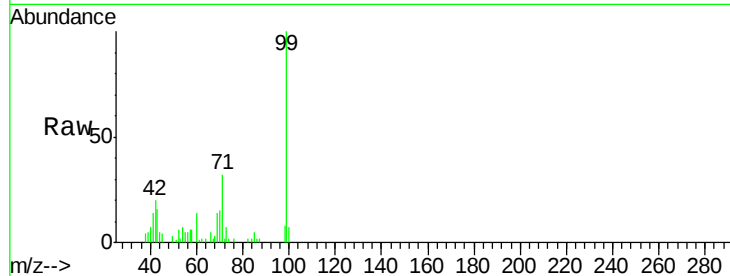


#5

2-Fluorophenol  
Concen: 3.753 ng  
RT: 5.32 min Scan# 549  
Delta R.T. 0.02 min  
Lab File: BF121440.D  
Acq: 25 Aug 2020 21:47

Tgt Ion:112 Resp: 31914  
Ion Ratio Lower Upper  
112 100  
64 52.9 43.5 65.3  
63 28.7 22.0 33.0





#7

Phenol-d6

Concen: 2.917 ng

RT: 6.36 min Scan# 726

Delta R.T. 0.02 min

Lab File: BF121440.D

Acq: 25 Aug 2020 21:47

Instrument :

BNA\_F

ClientSampleId :

1794

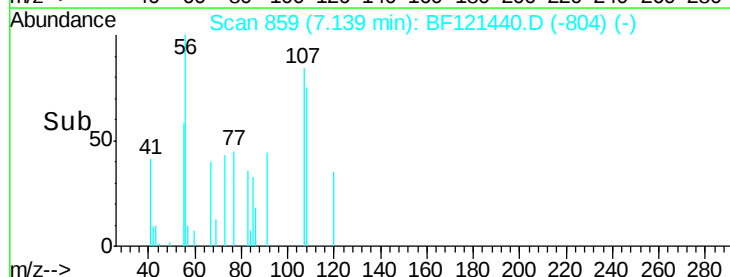
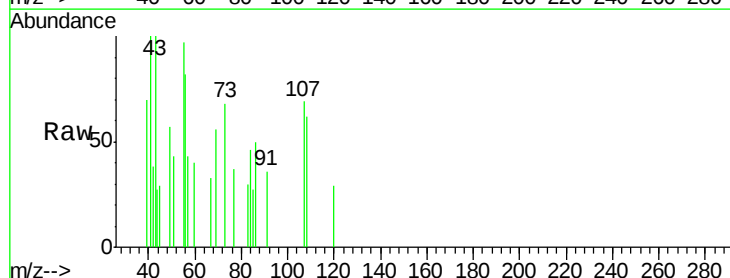
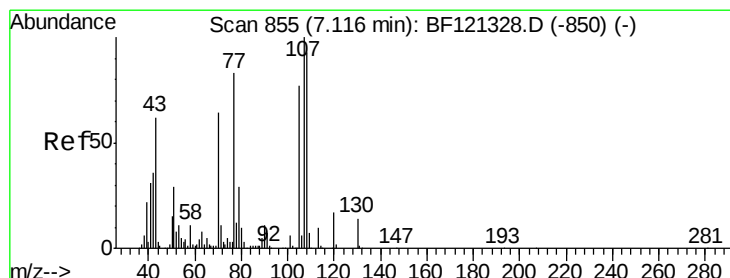
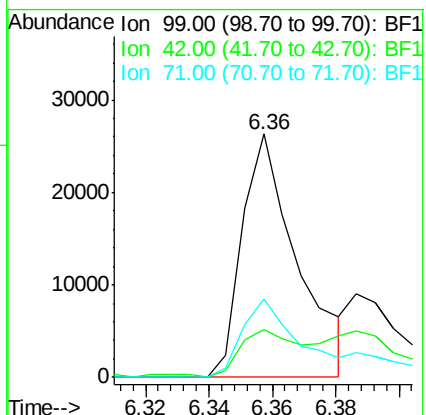
Tot Ion: 99 Resp: 31663

Ion Ratio Lower Upper

99 100

42 19.5 13.5 20.3

71 32.4 25.2 37.8



#20

3+4-Methylphenols

Concen: Below Cal

RT: 7.14 min Scan# 859

Delta R.T. 0.02 min

Lab File: BF121440.D

Acq: 25 Aug 2020 21:47

Tgt Ion: 107 Resp: 1178

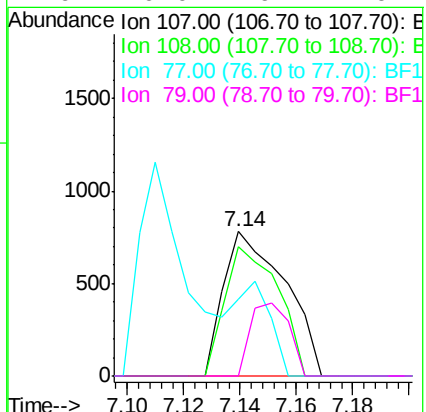
Ion Ratio Lower Upper

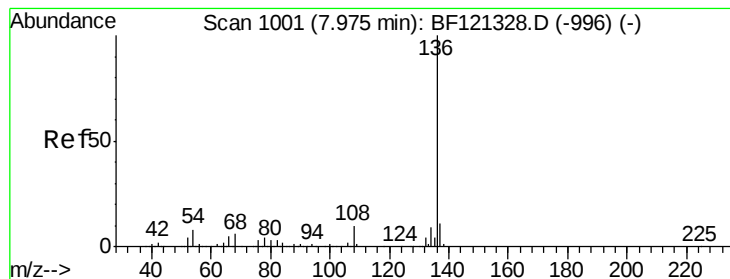
107 100

108 89.9 72.6 112.6

77 53.3 63.8 103.8#

79 0.0 9.1 49.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.98 min Scan# 1002

Delta R.T. 0.01 min

Lab File: BF121440.D

Acq: 25 Aug 2020 21:47

Instrument :

BNA\_F

ClientSampleId :

1794

Tot Ion:136 Resp: 555468

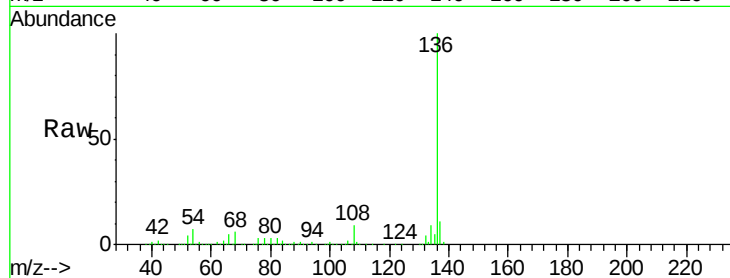
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 7.1 6.1 9.1

68 5.9 5.0 7.4

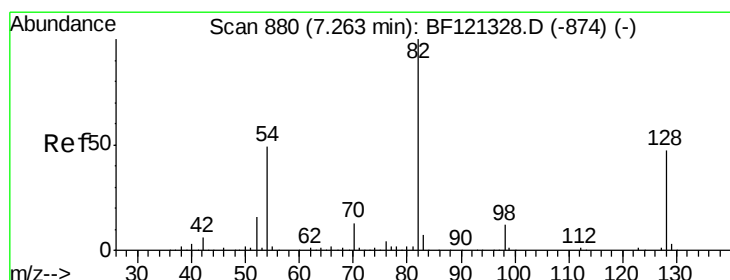
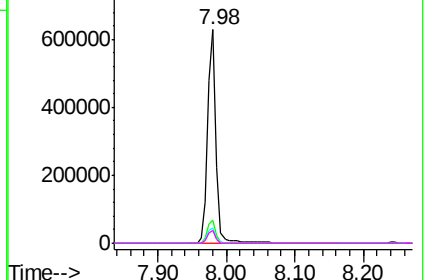
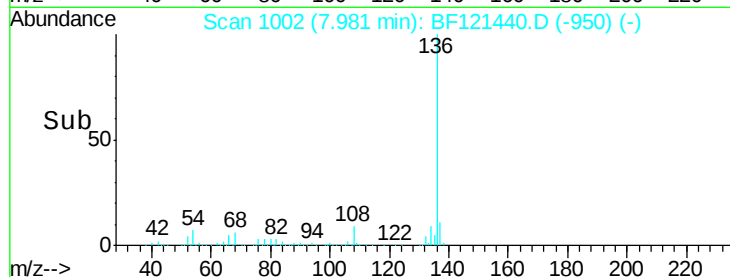


Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.112 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.01 min

Lab File: BF121440.D

Acq: 25 Aug 2020 21:47

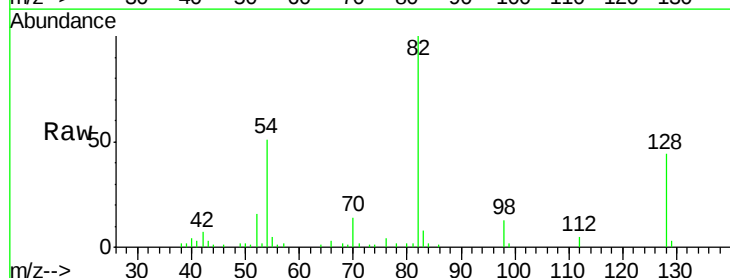
Tgt Ion: 82 Resp: 30564

Ion Ratio Lower Upper

82 100

128 43.8 37.9 56.9

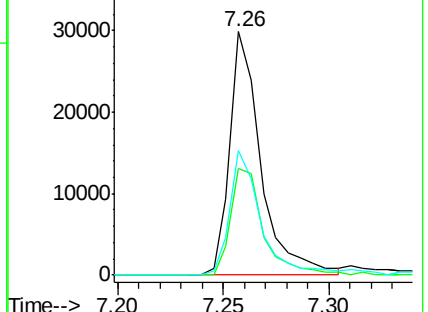
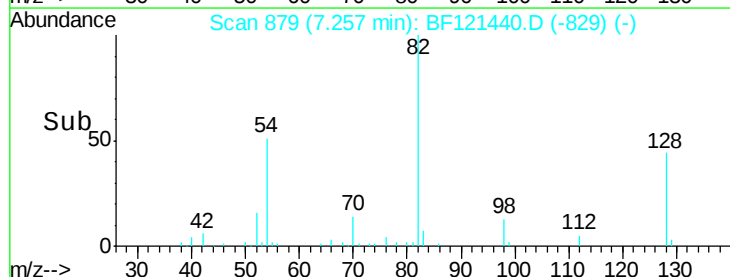
54 51.2 39.0 58.4

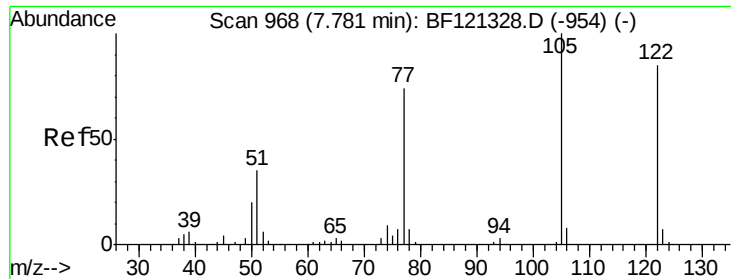


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

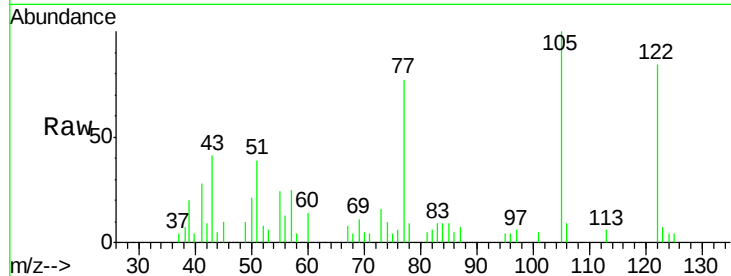




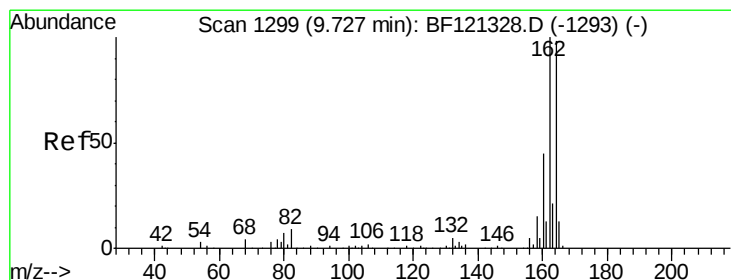
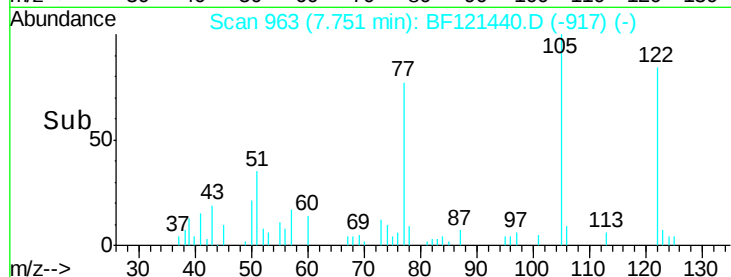
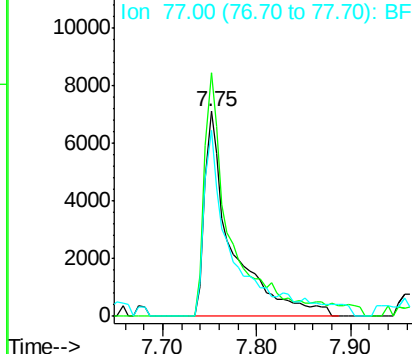
#32  
Benzoic acid  
Concen: 9.206 ng  
RT: 7.75 min Scan# 963  
Delta R.T. -0.03 min  
Lab File: BF121440.D  
Acq: 25 Aug 2020 21:47

Instrument :  
BNA\_F  
ClientSampleId :  
1794

Tot Ion:122 Resp: 14379  
Ion Ratio Lower Upper  
122 100  
105 118.9 96.7 136.7  
77 91.0 66.7 106.7

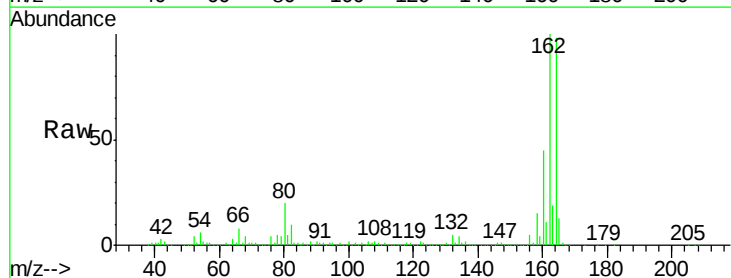


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF1

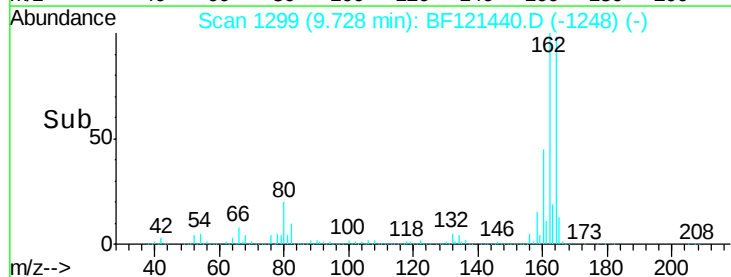
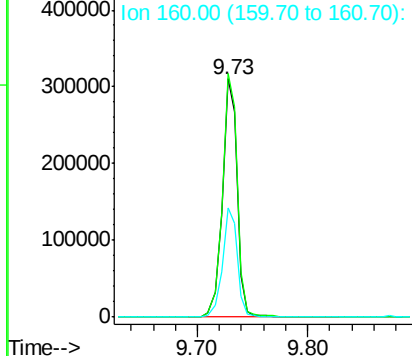


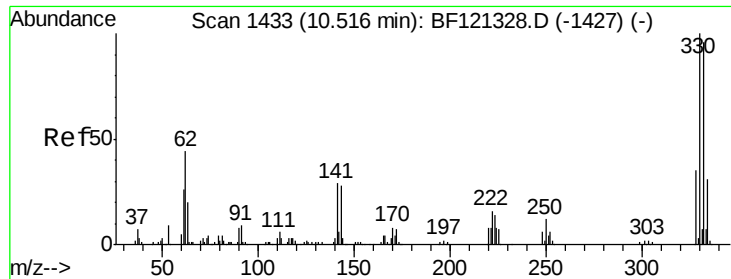
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.73 min Scan# 1299  
Delta R.T. 0.00 min  
Lab File: BF121440.D  
Acq: 25 Aug 2020 21:47

Tgt Ion:164 Resp: 290962  
Ion Ratio Lower Upper  
164 100  
162 102.2 81.7 122.5  
160 45.9 37.0 55.4



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

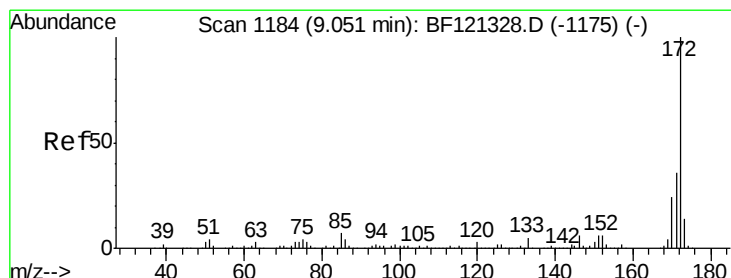
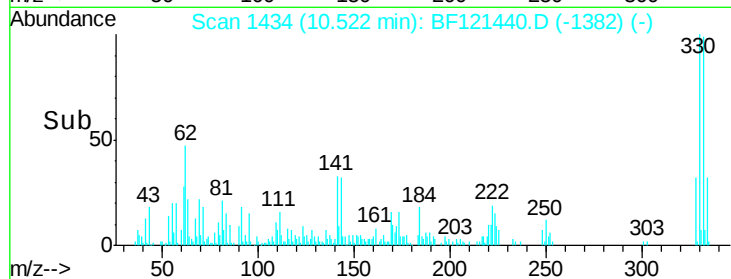
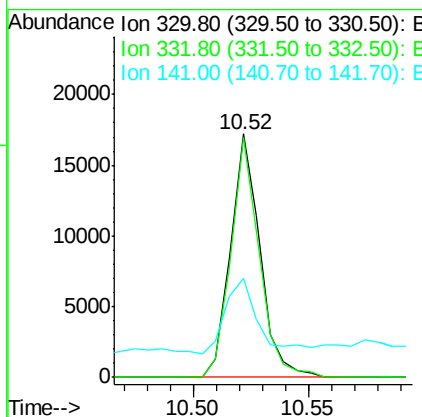
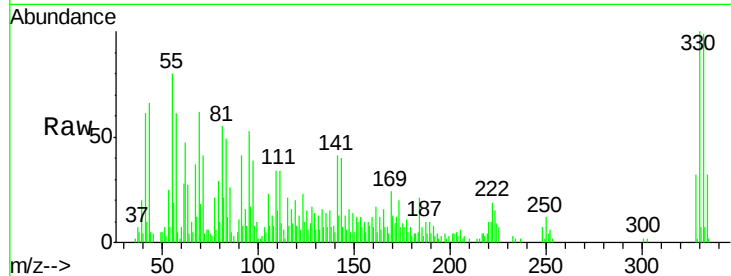




#42  
 2,4,6-Tribromophenol  
 Concen: 4.516 ng  
 RT: 10.52 min Scan# 1434  
 Delta R.T. 0.01 min  
 Lab File: BF121440.D  
 Acq: 25 Aug 2020 21:47

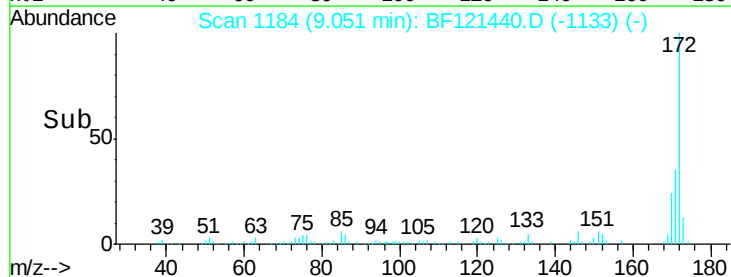
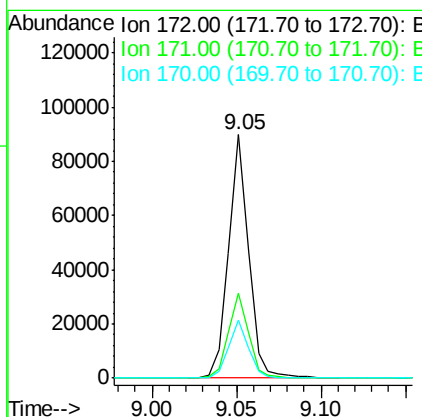
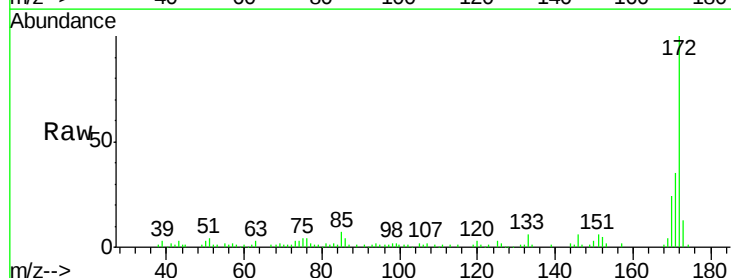
Instrument :  
 BNA\_F  
 ClientSampled :  
 1794

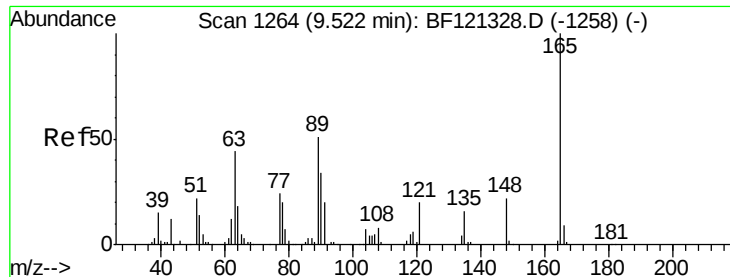
Tot Ion:330 Resp: 15311  
 Ion Ratio Lower Upper  
 330 100  
 332 95.1 76.9 115.3  
 141 35.3 22.8 34.2#



#45  
 2-Fluorobiphenyl  
 Concen: -9.474 ng  
 RT: 9.05 min Scan# 1184  
 Delta R.T. 0.00 min  
 Lab File: BF121440.D  
 Acq: 25 Aug 2020 21:47

Tgt Ion:172 Resp: 74178  
 Ion Ratio Lower Upper  
 172 100  
 171 34.7 29.0 43.6  
 170 23.8 19.4 29.2





#51

2,6-Dinitrotoluene

Concen: 8.572 ng

RT: 9.73 min Scan# 1299

Delta R.T. 0.21 min

Lab File: BF121440.D

Acq: 25 Aug 2020 21:47

Instrument :

BNA\_F

ClientSampled :

1794

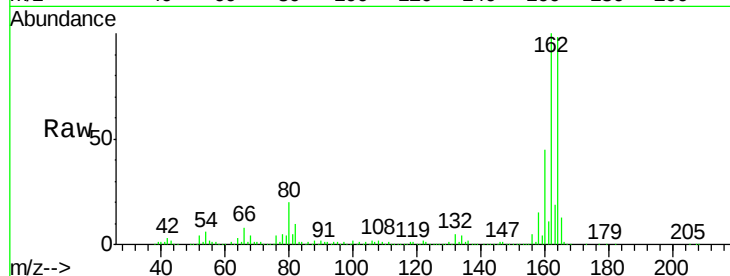
Tot Ion:165 Resp: 38751

Ion Ratio Lower Upper

165 100

63 2.2 38.5 57.7#

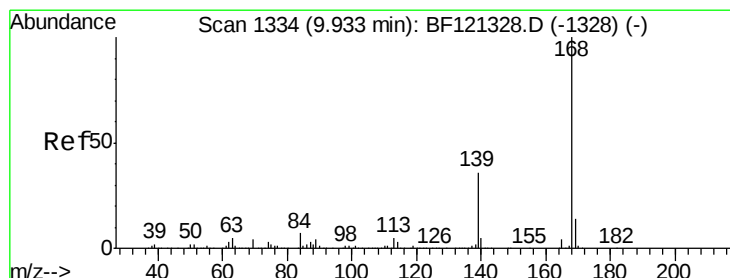
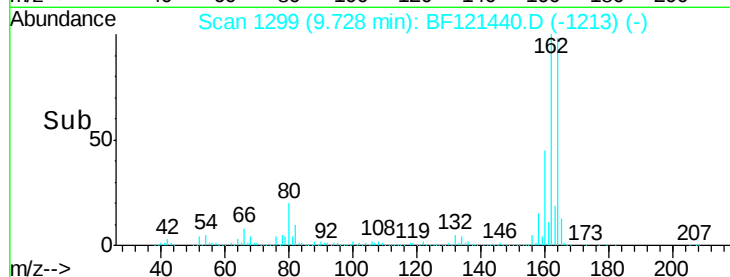
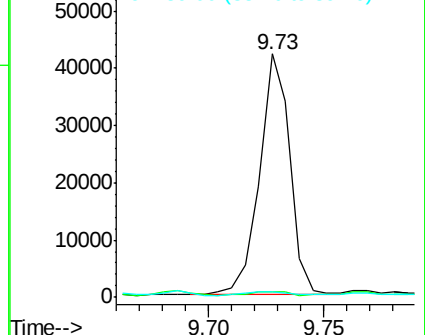
89 2.4 41.2 61.8#



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



#55

Dibenzofuran

Concen: Below Cal

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF121440.D

Acq: 25 Aug 2020 21:47

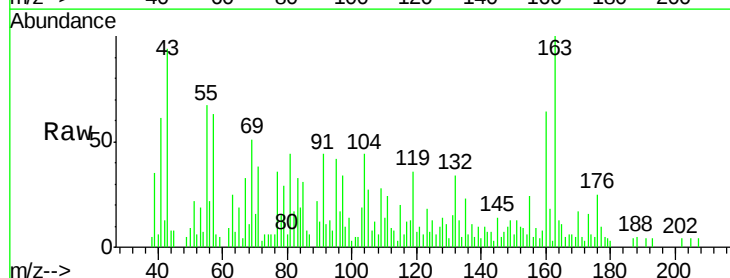
Tgt Ion:168 Resp: 641

Ion Ratio Lower Upper

168 100

139 186.7 29.1 43.7#

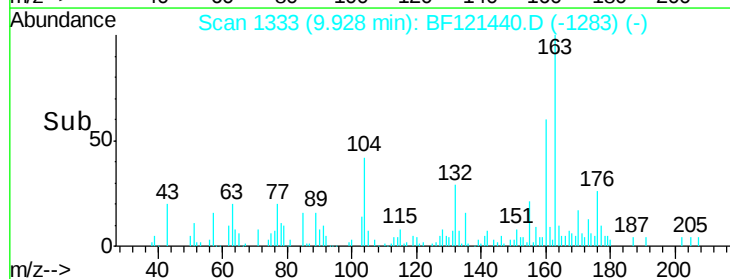
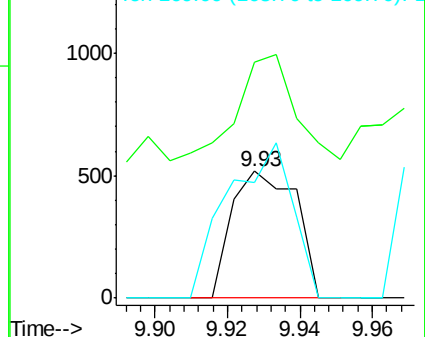
169 90.9 11.0 16.6#

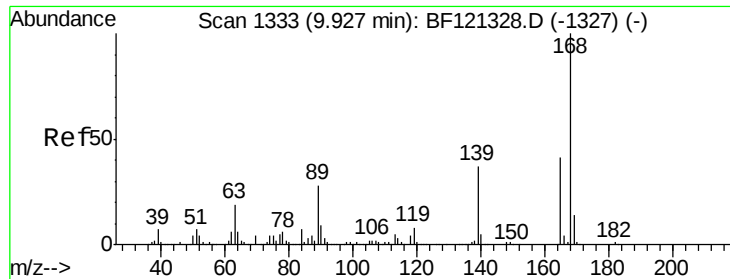


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

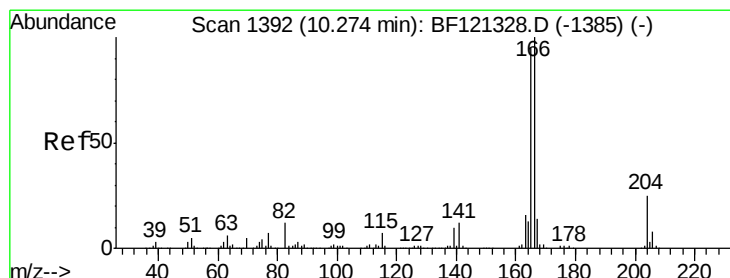
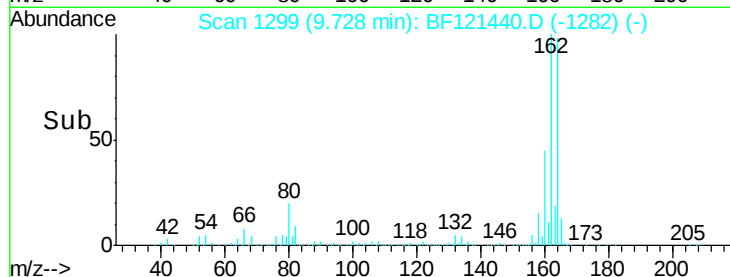
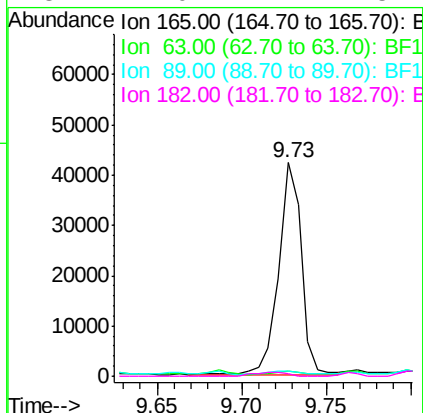
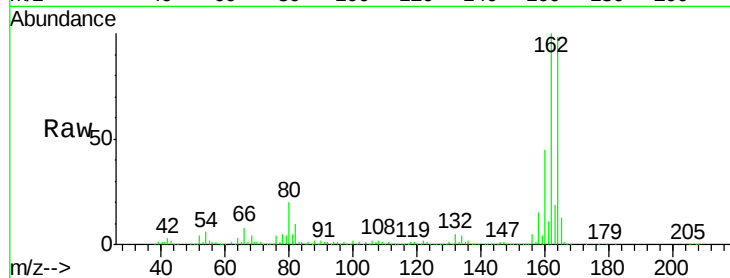




#57  
 2,4-Dinitrotoluene  
 Concen: 7.149 ng  
 RT: 9.73 min Scan# 1299  
 Delta R.T. -0.20 min  
 Lab File: BF121440.D  
 Acq: 25 Aug 2020 21:47

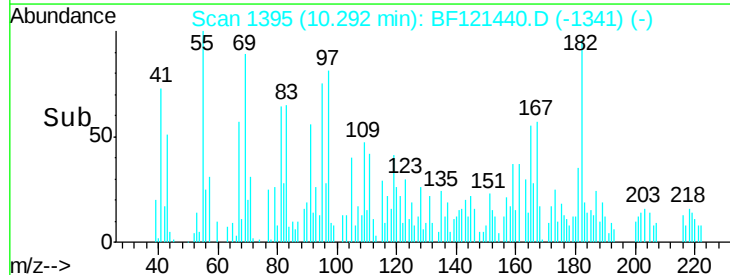
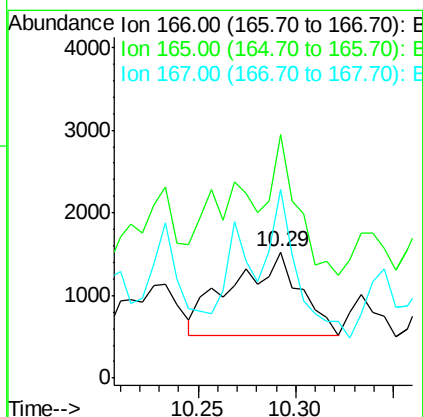
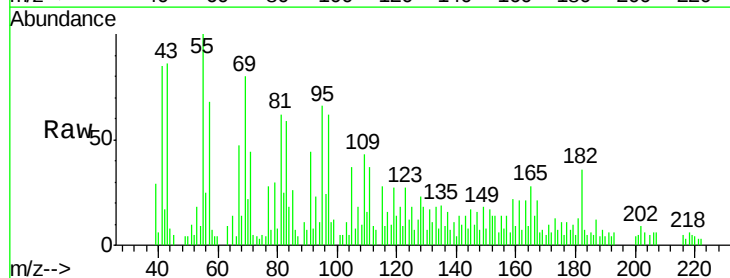
Instrument :  
 BNA\_F  
 ClientSampleId :  
 1794

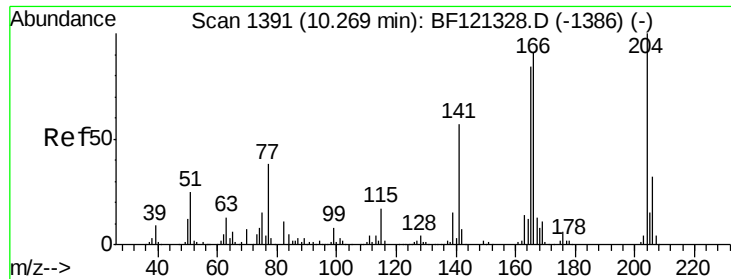
Tot Ion:165 Resp: 39429  
 Ion Ratio Lower Upper  
 165 100  
 63 2.2 37.5 56.3#  
 89 2.4 54.2 81.4#  
 182 1.0 2.2 3.4#



#58  
 Fluorene  
 Concen: Below Cal  
 RT: 10.29 min Scan# 1395  
 Delta R.T. 0.02 min  
 Lab File: BF121440.D  
 Acq: 25 Aug 2020 21:47

Tgt Ion:166 Resp: 2433  
 Ion Ratio Lower Upper  
 166 100  
 165 192.7 75.8 113.8#  
 167 149.3 11.0 16.4#

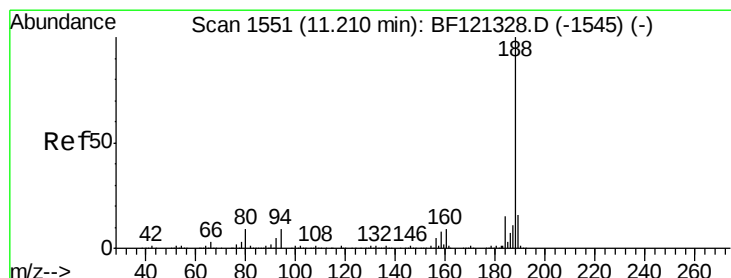
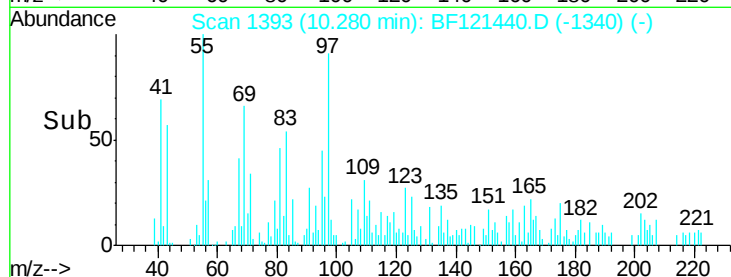
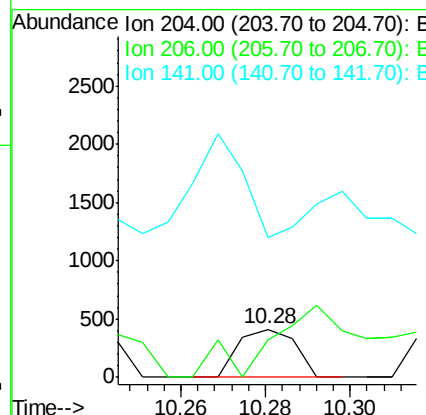
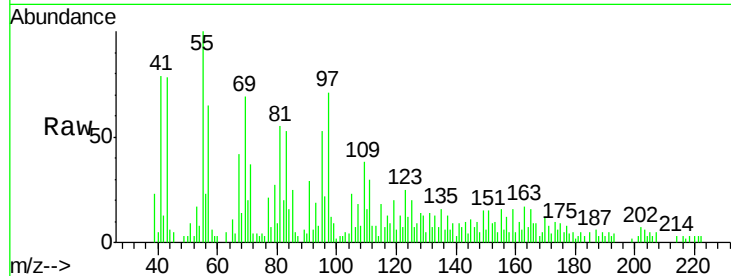




#61  
4-Chlorophenyl-phenylether  
Concen: Below Cal  
RT: 10.28 min Scan# 1393  
Delta R.T. 0.01 min  
Lab File: BF121440.D  
Acq: 25 Aug 2020 21:47

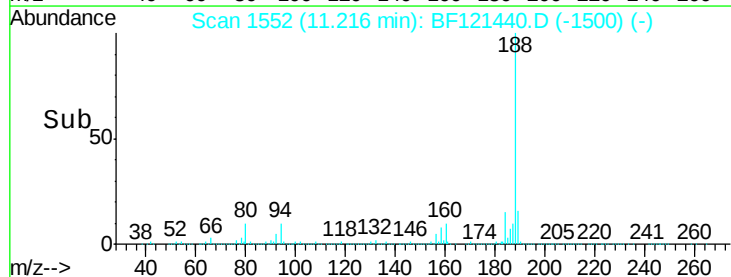
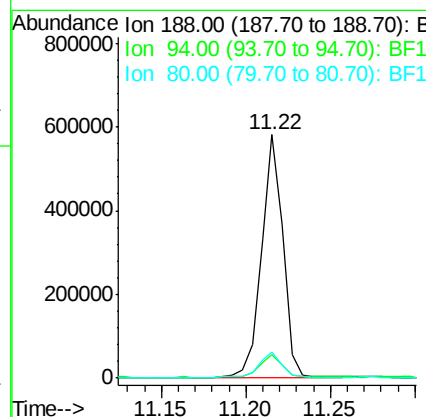
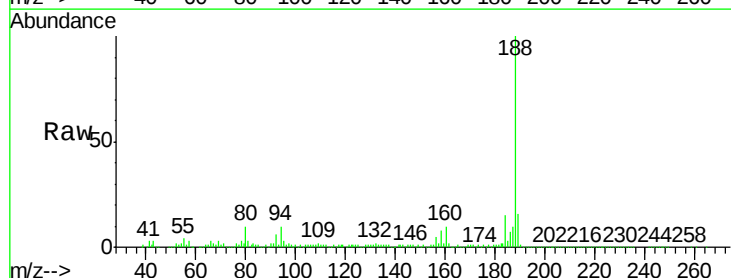
Instrument :  
BNA\_F  
ClientSampled :  
1794

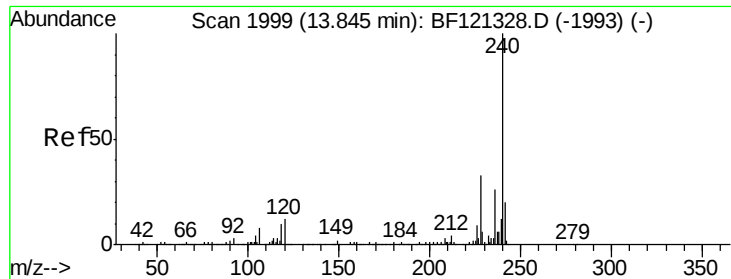
Tot Ion:204 Resp: 385  
Ion Ratio Lower Upper  
204 100  
206 77.4 25.9 38.9#  
141 291.5 45.5 68.3#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.22 min Scan# 1552  
Delta R.T. 0.01 min  
Lab File: BF121440.D  
Acq: 25 Aug 2020 21:47

Tgt Ion:188 Resp: 513421  
Ion Ratio Lower Upper  
188 100  
94 9.9 7.2 10.8  
80 10.4 7.4 11.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.86 min Scan# 2001

Delta R.T. 0.01 min

Lab File: BF121440.D

Acq: 25 Aug 2020 21:47

Instrument :

BNA\_F

ClientSampled :

1794

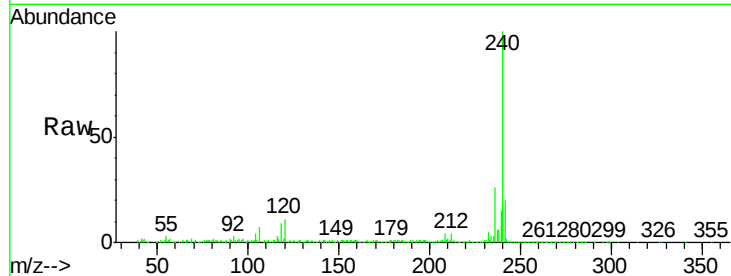
Tot Ion:240 Resp: 359671

Ion Ratio Lower Upper

240 100

120 10.8 9.6 14.4

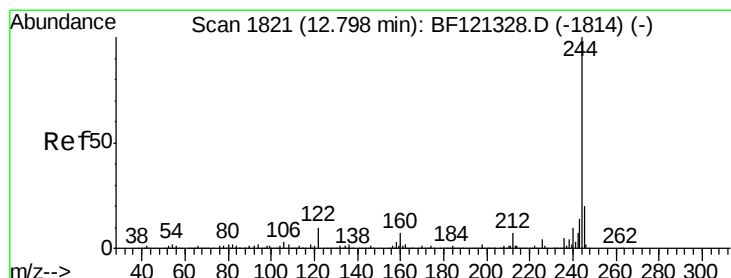
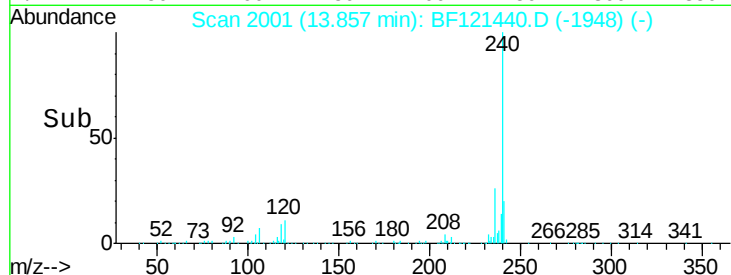
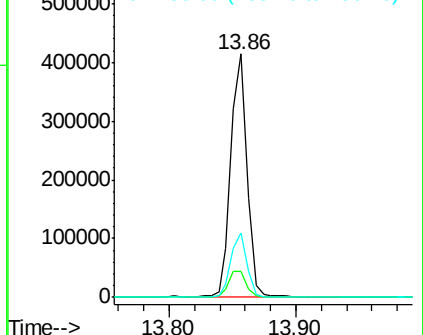
236 26.5 20.6 31.0



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: 3.986 ng

RT: 12.80 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BF121440.D

Acq: 25 Aug 2020 21:47

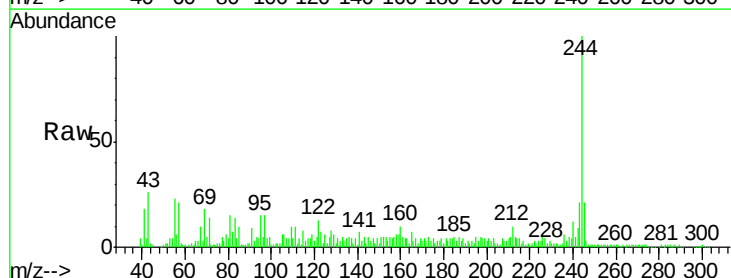
Tgt Ion:244 Resp: 73371

Ion Ratio Lower Upper

244 100

212 10.1 5.4 8.0#

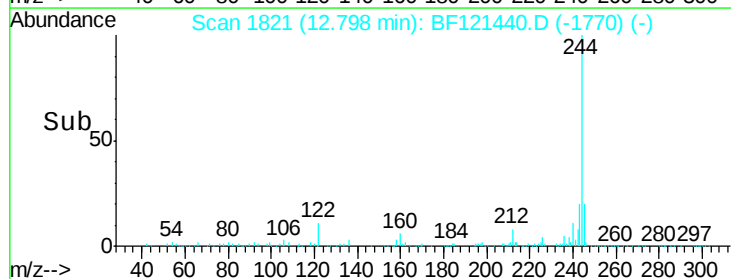
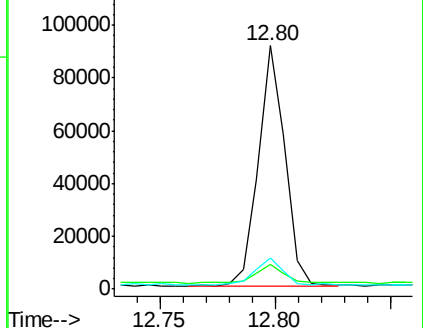
122 12.6 7.8 11.8#

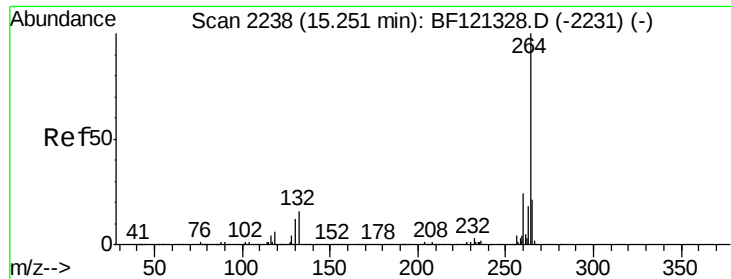


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.27 min Scan# 2242  
Delta R.T. 0.02 min  
Lab File: BF121440.D  
Acq: 25 Aug 2020 21:47

Instrument :  
BNA\_F  
ClientSampleId :  
1794

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.3  | 19.5  | 29.3  |
| 265     | 21.6  | 17.1  | 25.7  |

