

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF041222\  
 Data File : BF127765.D  
 Acq On : 12 Apr 2022 18:31  
 Operator : CG\JU  
 Sample : N2364-06  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-03-COMP

Quant Time: Apr 13 07:25:02 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF040622.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 13 07:19:18 2022  
 Response via : Initial Calibration

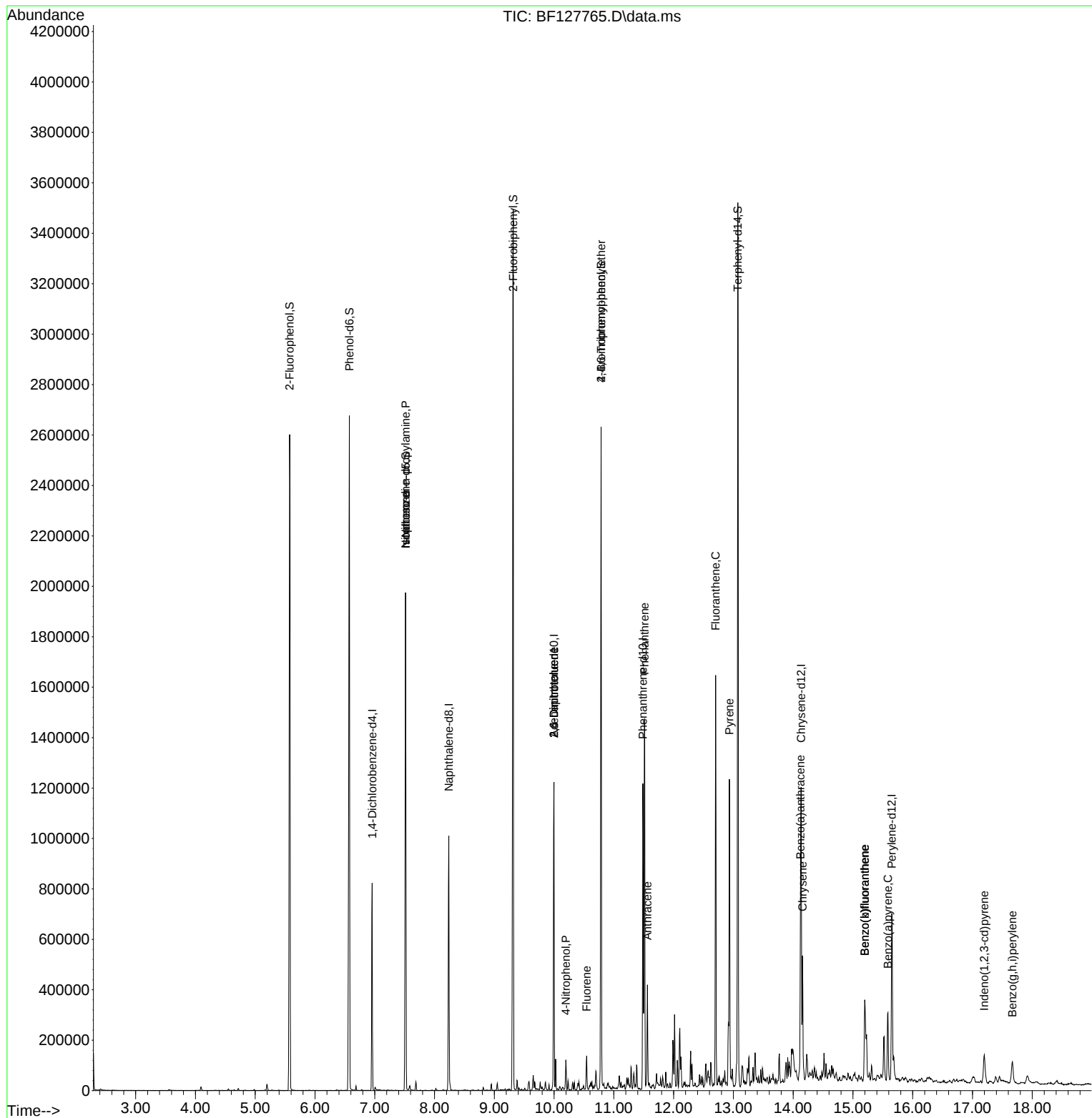
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.957  | 152  | 116574   | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.239  | 136  | 425185   | 20.000    | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.998  | 164  | 244217   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.486 | 188  | 447172   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 14.133 | 240  | 334547   | 20.000    | ng    | 0.00     |
| 86) Perylene-d12              | 15.651 | 264  | 320952   | 20.000    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.575  | 112  | 705789   | 98.379    | ng    | 0.00     |
| 7) Phenol-d6                  | 6.575  | 99   | 895871   | 95.454    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.516  | 82   | 639062   | 67.007    | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.786 | 330  | 287031   | 110.446   | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.316  | 172  | 1141872  | 66.145    | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.074 | 244  | 1232520  | 60.811    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 6.510  | 77   | 79       | Below Cal | #     | 7        |
| 19) n-Nitroso-di-n-propyla... | 7.516  | 70   | 86682    | 14.280    | ng    | # 75     |
| 25) Isophorone                | 7.516  | 82   | 639053   | 38.400    | ng    | # 70     |
| 51) 2,6-Dinitrotoluene        | 9.998  | 165  | 32572    | 9.762     | ng    | # 17     |
| 56) 4-Nitrophenol             | 10.198 | 139  | 12440    | 4.493     | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 9.998  | 165  | 32572    | 7.873     | ng    | # 14     |
| 58) Fluorene                  | 10.545 | 166  | 33560    | 2.188     | ng    | 97       |
| 67) 4-Bromophenyl-phenylether | 10.786 | 248  | 18654    | 3.437     | ng    | # 1      |
| 71) Phenanthrene              | 11.516 | 178  | 555813   | 23.459    | ng    | 99       |
| 72) Anthracene                | 11.563 | 178  | 137188   | 5.854     | ng    | 98       |
| 75) Fluoranthene              | 12.704 | 202  | 614835   | 23.781    | ng    | 99       |
| 78) Pyrene                    | 12.933 | 202  | 497858   | 17.623    | ng    | 100      |
| 81) Benzo(a)anthracene        | 14.121 | 228  | 219445   | 9.821     | ng    | 96       |
| 83) Chrysene                  | 14.157 | 228  | 178946   | 8.343     | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.198 | 276  | 83212    | 4.150     | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.198 | 252  | 267917   | 12.976    | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.198 | 252  | 267917   | 13.083    | ng    | 100      |
| 90) Benzo(a)pyrene            | 15.586 | 252  | 142529   | 8.493     | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 17.668 | 276  | 70660    | 4.242     | ng    | 98       |
| -----                         |        |      |          |           |       |          |

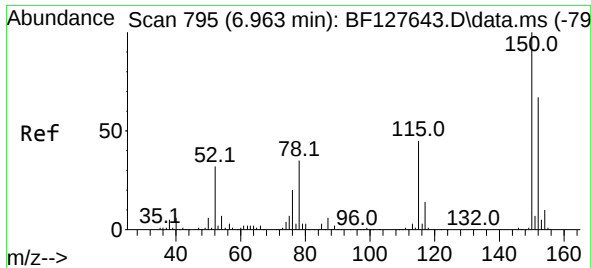
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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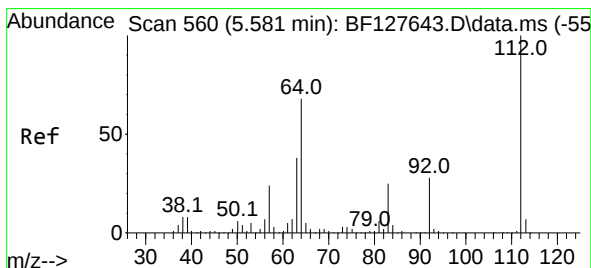
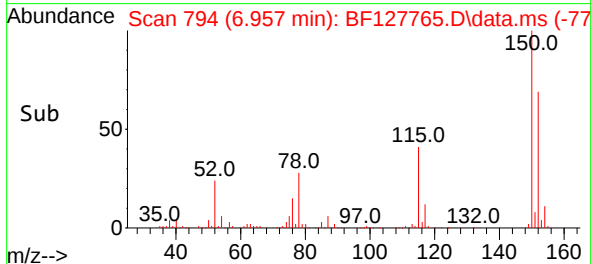
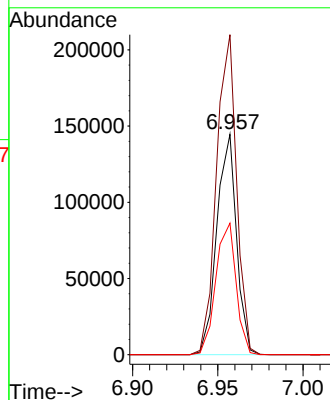
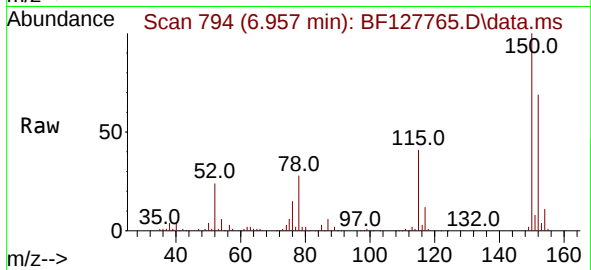




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.957 min Scan# 795  
Delta R.T. 0.000 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

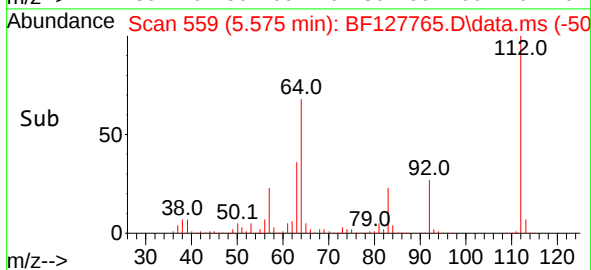
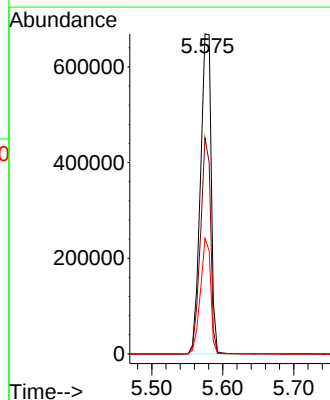
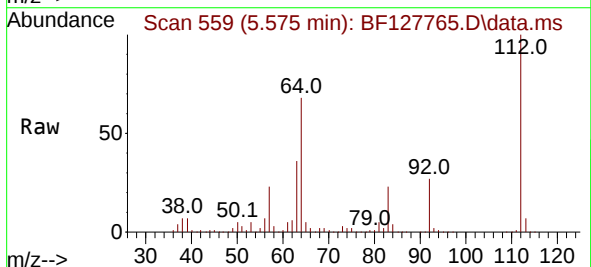
Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-COMP

Tgt Ion:152 Resp: 116574  
Ion Ratio Lower Upper  
152 100  
150 145.2 117.2 175.8  
115 59.7 49.8 74.6



#5  
2-Fluorophenol  
Concen: 98.379 ng  
RT: 5.575 min Scan# 559  
Delta R.T. -0.006 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

Tgt Ion:112 Resp: 705789  
Ion Ratio Lower Upper  
112 100  
64 67.6 58.4 87.6  
63 36.1 30.1 45.1

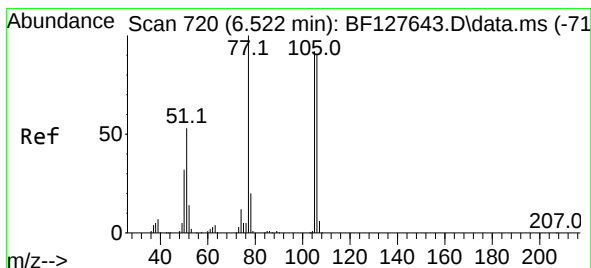
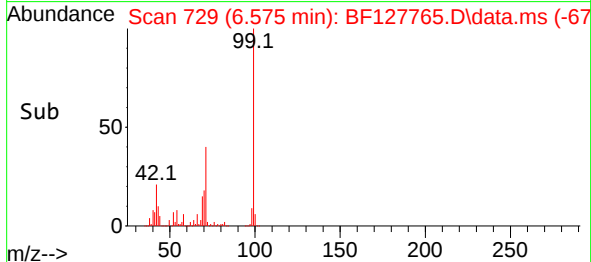
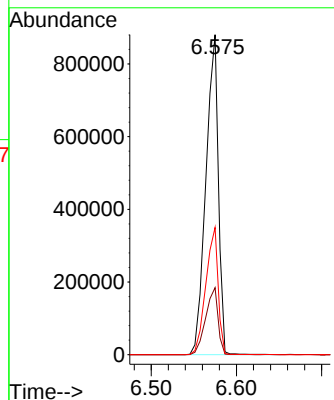
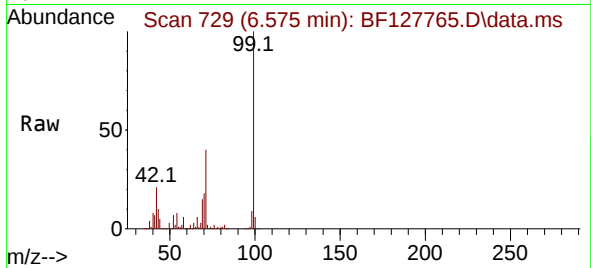




#7  
Phenol-d6  
Concen: 95.454 ng  
RT: 6.575 min Scan# 718  
Delta R.T. -0.006 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

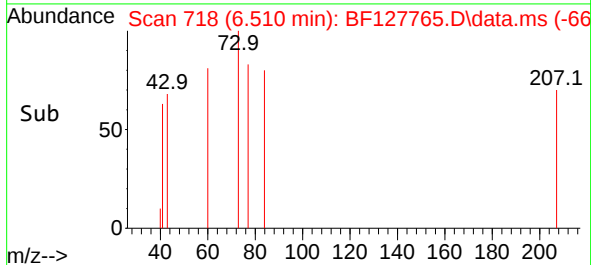
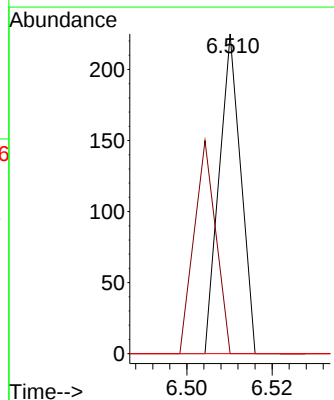
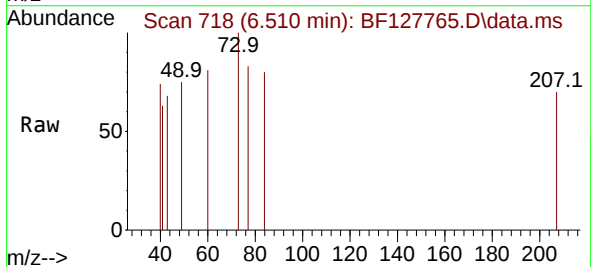
Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-COMP

Tgt Ion: 99 Resp: 895871  
Ion Ratio Lower Upper  
99 100  
42 20.9 17.8 26.6  
71 39.7 29.6 44.4



#9  
Benzaldehyde  
Concen: Below Cal  
RT: 6.510 min Scan# 718  
Delta R.T. -0.006 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

Tgt Ion: 77 Resp: 79  
Ion Ratio Lower Upper  
77 100  
105 0.0 66.8 106.8#  
106 0.0 64.3 104.3#





#19

n-Nitroso-di-n-propylamine

Concen: 14.280 ng

RT: 7.516 min Scan# 866

Delta R.T. 0.147 min

Lab File: BF127765.D

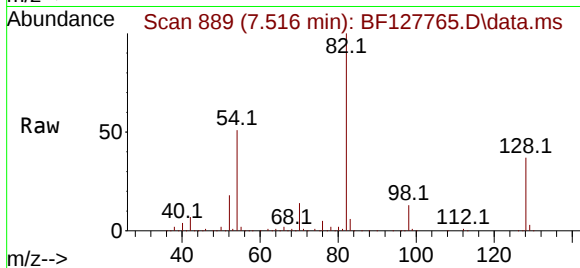
Acq: 12 Apr 2022 18:31

Instrument :

BNA\_F

ClientSampleId :

SB-03-COMP



Tgt Ion: 70 Resp: 86682

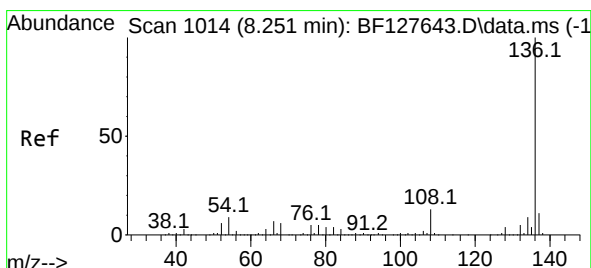
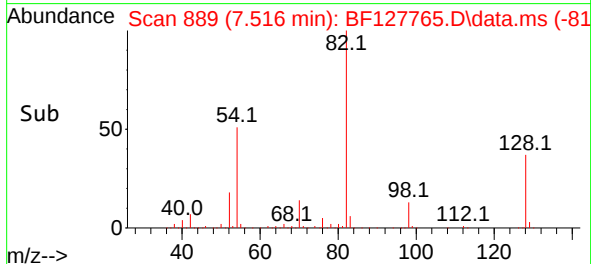
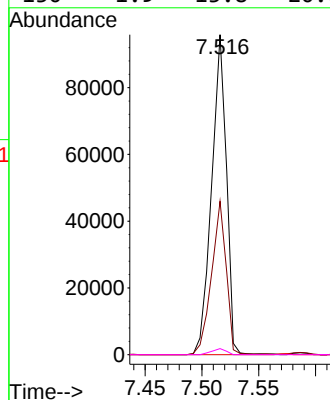
Ion Ratio Lower Upper

70 100

42 48.0 53.0 79.6#

101 0.0 6.8 10.2#

130 1.9 13.8 20.6#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.239 min Scan# 1012

Delta R.T. -0.006 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

Tgt Ion: 136 Resp: 425185

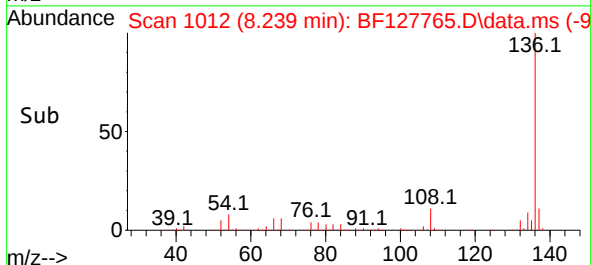
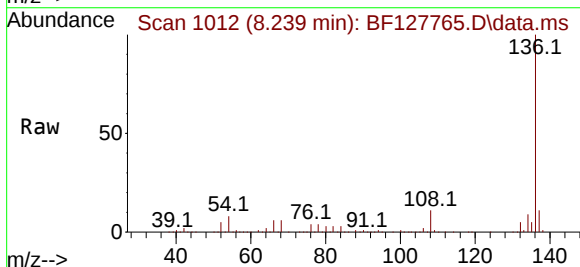
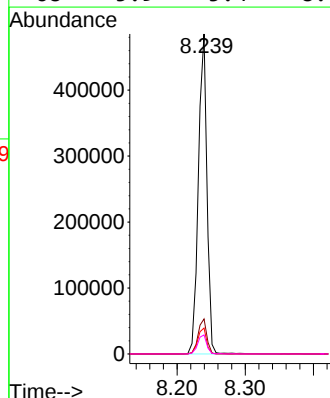
Ion Ratio Lower Upper

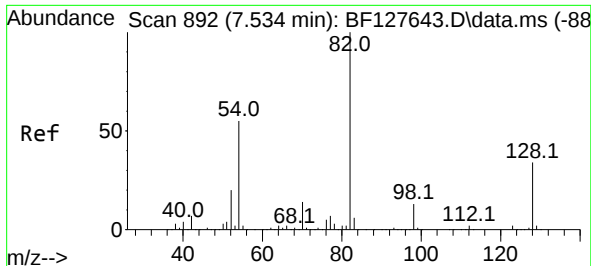
136 100

137 11.0 8.6 13.0

54 8.1 9.2 13.8#

68 5.9 5.4 8.0





#23

Nitrobenzene-d5

Concen: 67.007 ng

RT: 7.516 min Scan# 889

Delta R.T. -0.012 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

Instrument :

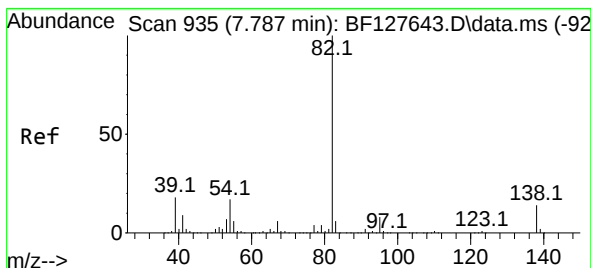
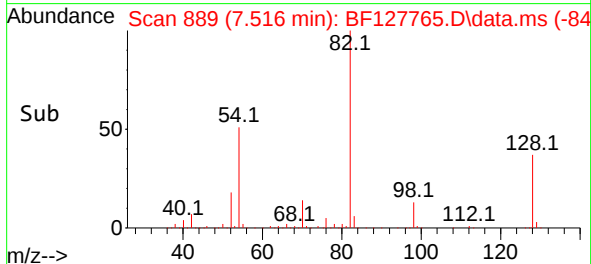
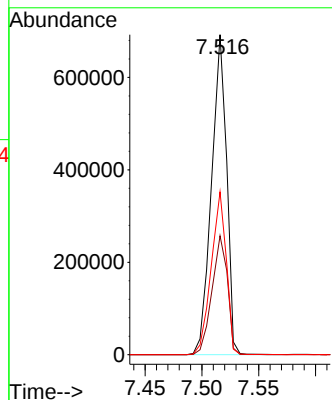
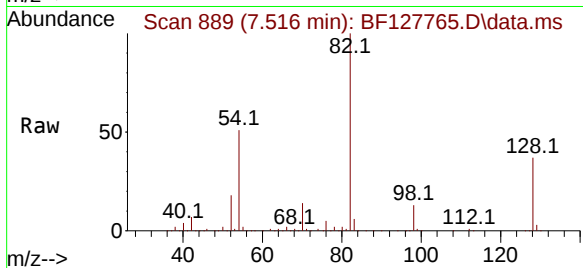
BNA\_F

ClientSampleId :

SB-03-COMP

Tgt Ion: 82 Resp: 639062

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 37.2  | 30.6  | 45.8  |
| 54  | 50.9  | 48.2  | 72.2  |



#25

Isophorone

Concen: 38.400 ng

RT: 7.516 min Scan# 889

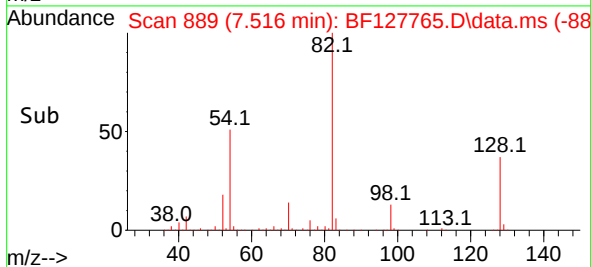
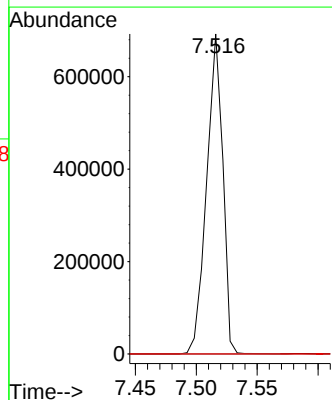
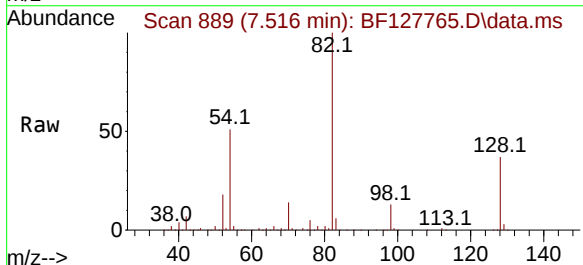
Delta R.T. -0.265 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

Tgt Ion: 82 Resp: 639053

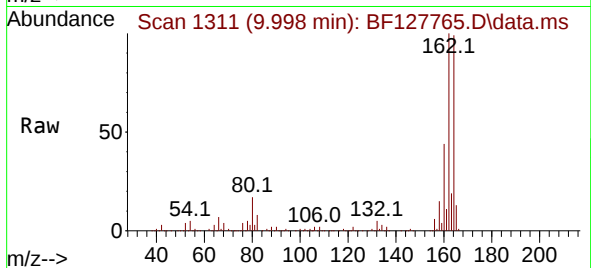
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 95  | 0.0   | 5.8   | 8.8#  |
| 138 | 0.0   | 11.6  | 17.4# |



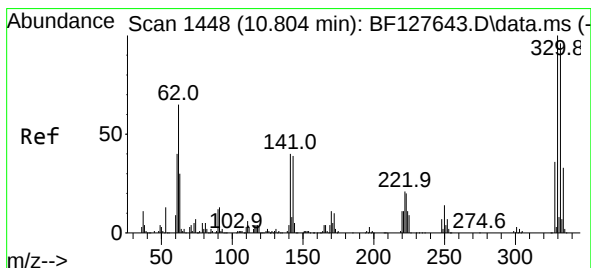
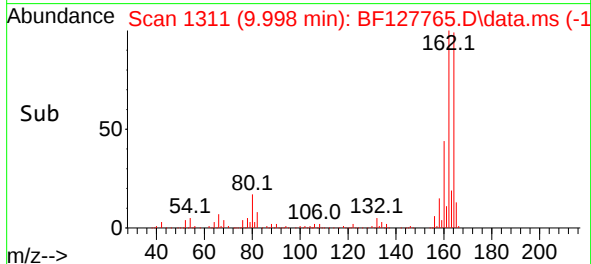
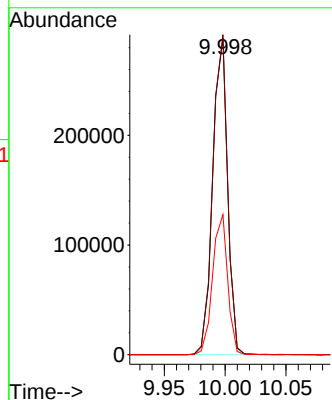


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.998 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

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BNA\_F  
ClientSampleId :  
SB-03-COMP

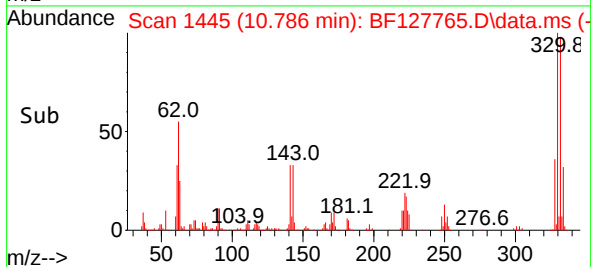
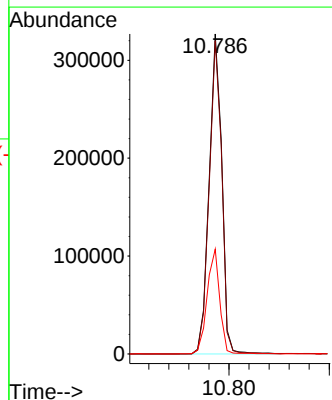
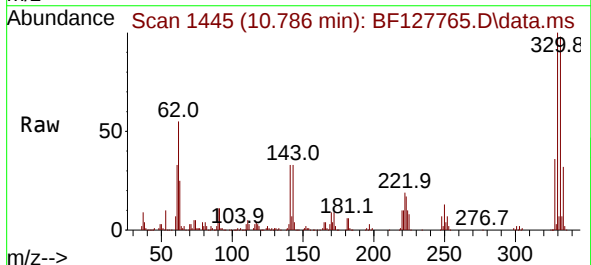


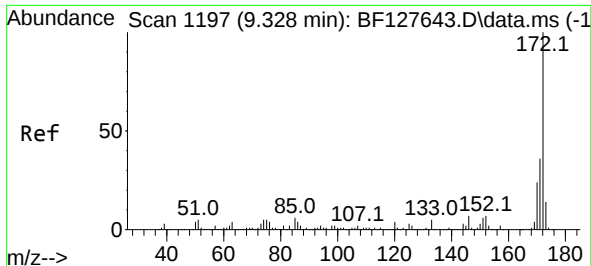
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Ion Ratio Lower Upper  
164 100  
162 101.0 81.2 121.8  
160 44.2 34.6 52.0



#42  
2,4,6-Tribromophenol  
Concen: 110.446 ng  
RT: 10.786 min Scan# 1445  
Delta R.T. -0.006 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

Tgt Ion:330 Resp: 287031  
Ion Ratio Lower Upper  
330 100  
332 96.8 79.1 118.7  
141 32.8 26.2 39.4





#45

2-Fluorobiphenyl

Concen: 66.145 ng

RT: 9.316 min Scan# 1195

Delta R.T. -0.006 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

Instrument :

BNA\_F

ClientSampleId :

SB-03-COMP

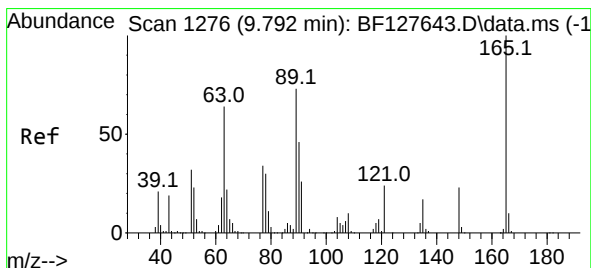
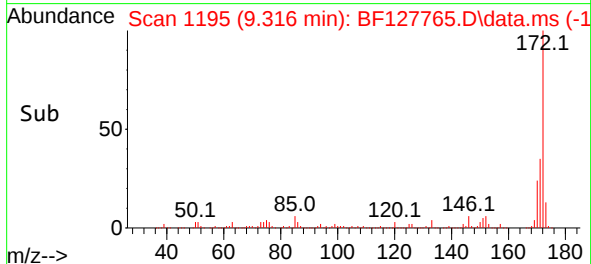
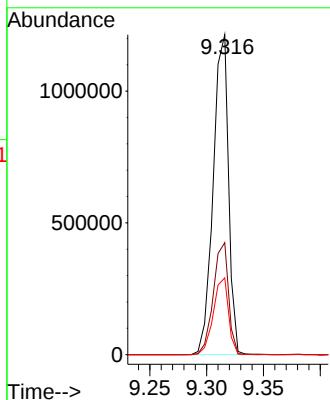
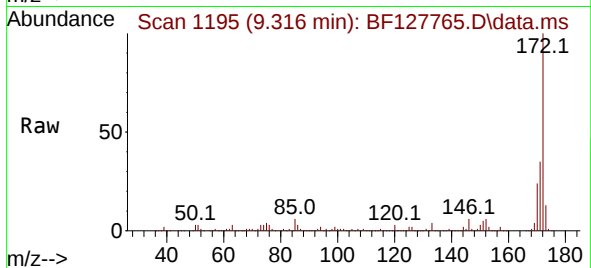
Tgt Ion:172 Resp: 1141872

Ion Ratio Lower Upper

172 100

171 35.0 28.4 42.6

170 24.0 18.6 27.8



#51

2,6-Dinitrotoluene

Concen: 9.762 ng

RT: 9.998 min Scan# 1311

Delta R.T. 0.218 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

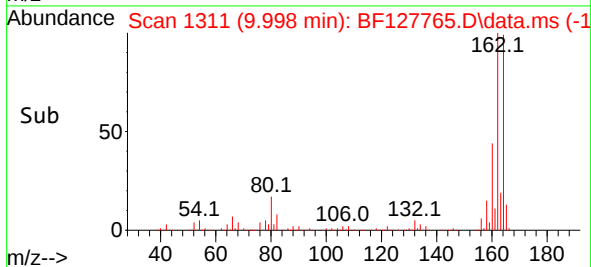
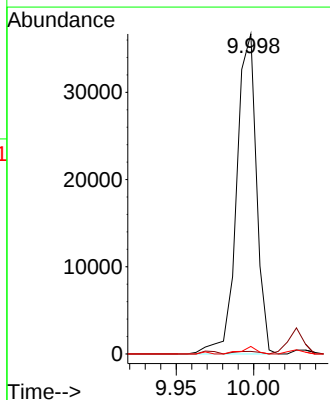
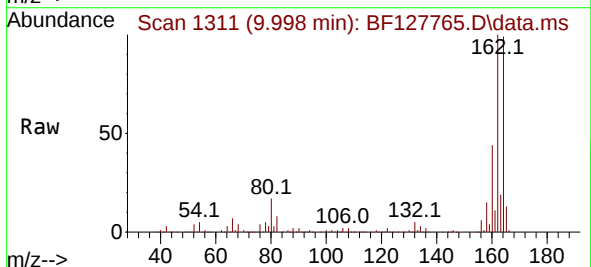
Tgt Ion:165 Resp: 32572

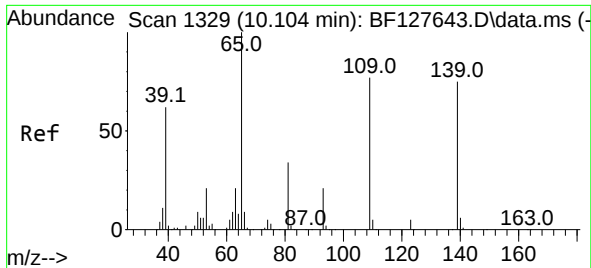
Ion Ratio Lower Upper

165 100

63 0.8 58.3 87.5#

89 2.3 51.5 77.3#

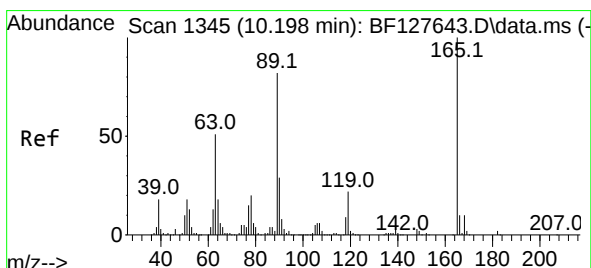
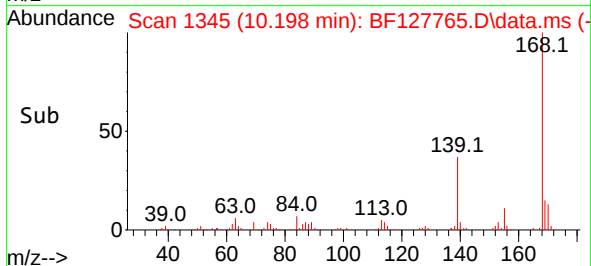
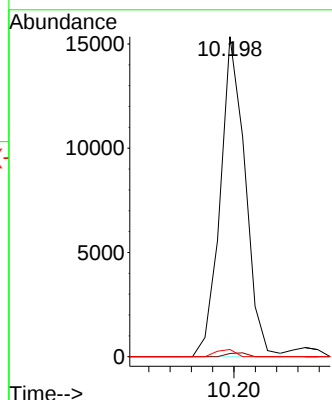
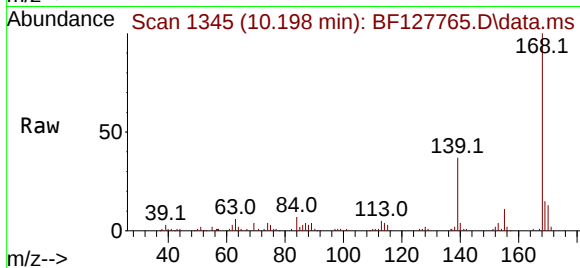




#56  
4-Nitrophenol  
Concen: 4.493 ng  
RT: 10.198 min Scan# 11  
Delta R.T. 0.094 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

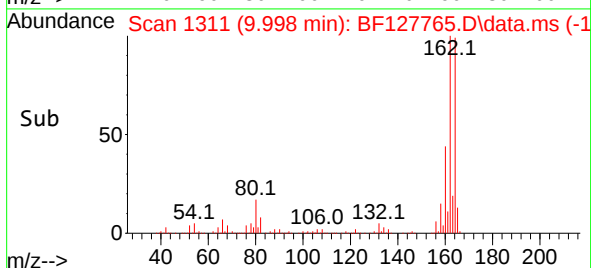
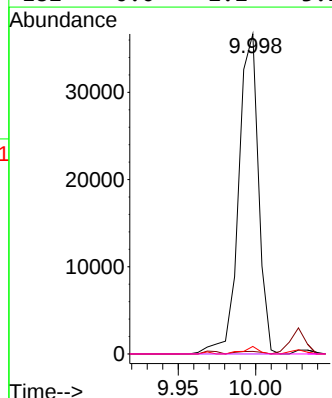
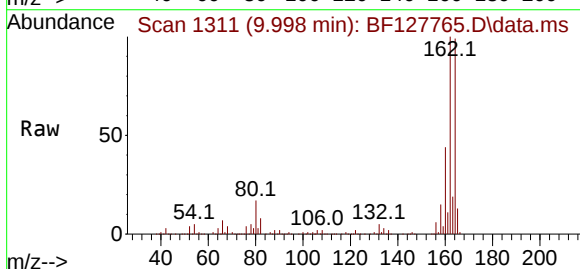
Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-COMP

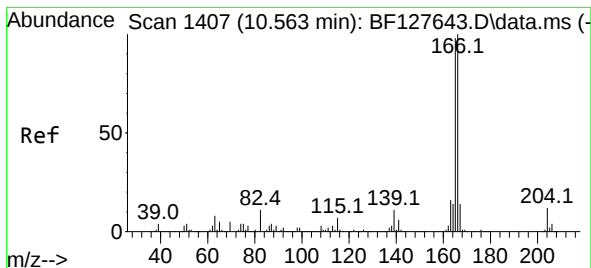
Tgt Ion:139 Resp: 12440  
Ion Ratio Lower Upper  
139 100  
109 1.0 64.3 104.3#  
65 2.2 117.5 157.5#



#57  
2,4-Dinitrotoluene  
Concen: 7.873 ng  
RT: 9.998 min Scan# 1311  
Delta R.T. -0.188 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

Tgt Ion:165 Resp: 32572  
Ion Ratio Lower Upper  
165 100  
63 0.8 53.1 79.7#  
89 2.3 69.2 103.8#  
182 0.0 2.2 3.2#





#58

Fluorene

Concen: 2.188 ng

RT: 10.545 min Scan# 1404

Delta R.T. -0.006 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

Instrument :

BNA\_F

ClientSampleId :

SB-03-COMP

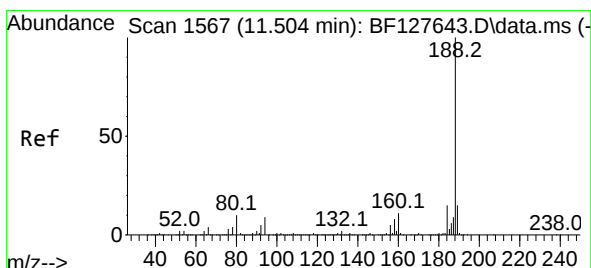
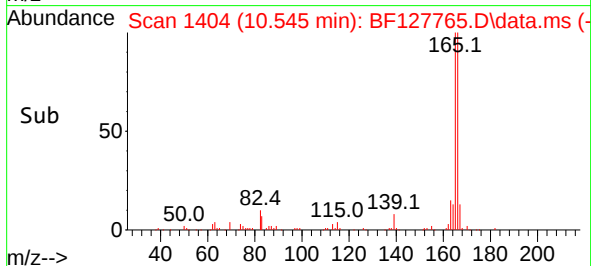
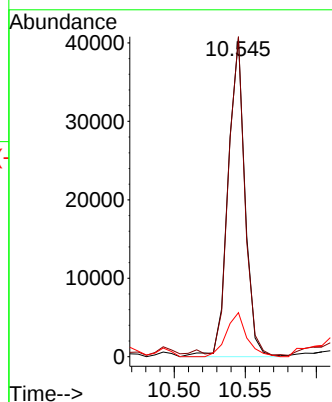
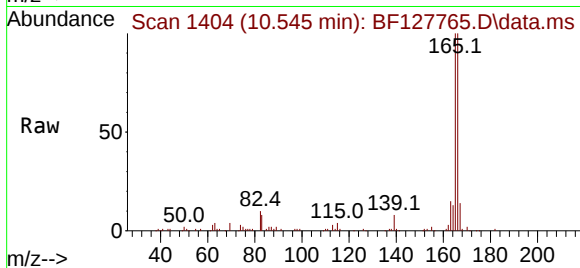
Tgt Ion:166 Resp: 33560

Ion Ratio Lower Upper

166 100

165 100.3 78.1 117.1

167 13.8 10.5 15.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.486 min Scan# 1564

Delta R.T. -0.006 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

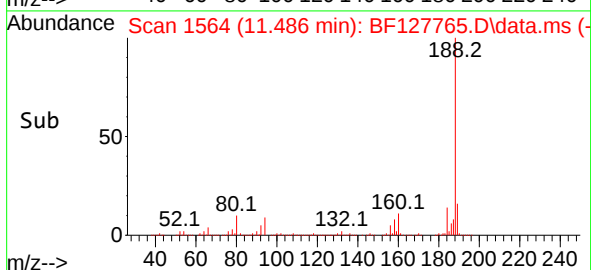
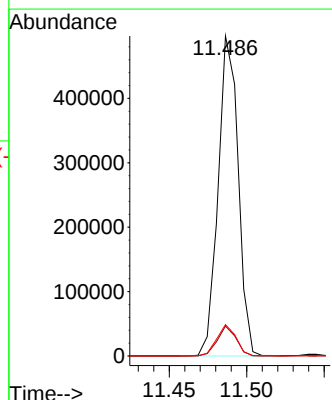
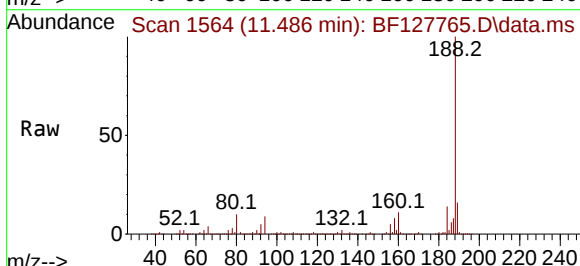
Tgt Ion:188 Resp: 447172

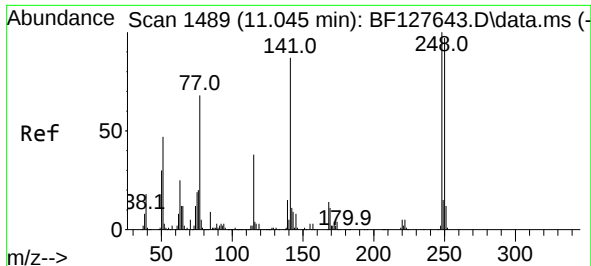
Ion Ratio Lower Upper

188 100

94 9.4 7.4 11.0

80 9.8 8.0 12.0

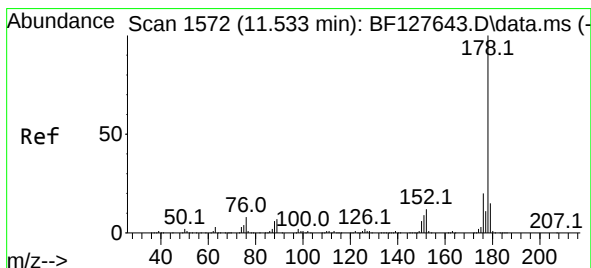
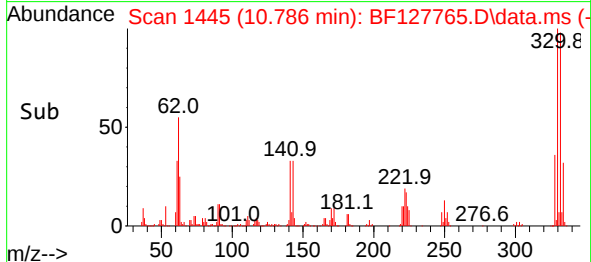
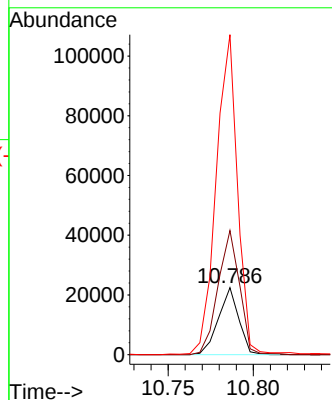
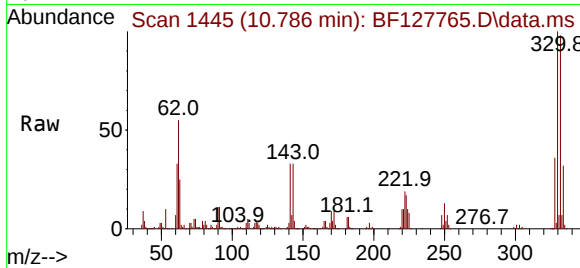




#67  
4-Bromophenyl-phenylether  
Concen: 3.437 ng  
RT: 10.786 min Scan# 1489  
Delta R.T. -0.247 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

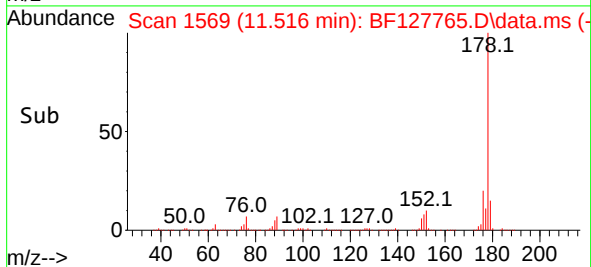
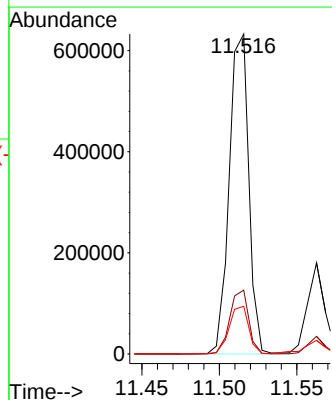
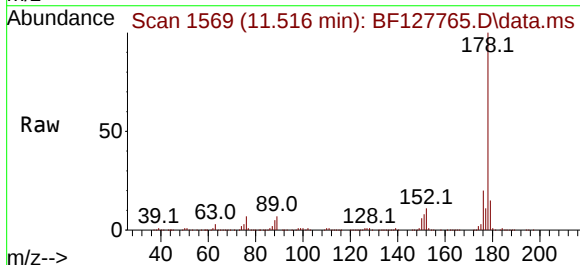
Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-COMP

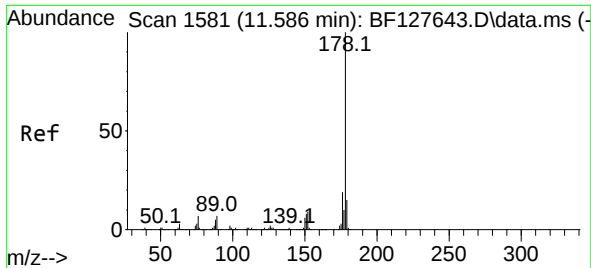
Tgt Ion:248 Resp: 18654  
Ion Ratio Lower Upper  
248 100  
250 185.4 76.6 115.0#  
141 477.5 52.2 78.2#



#71  
Phenanthrene  
Concen: 23.459 ng  
RT: 11.516 min Scan# 1569  
Delta R.T. -0.006 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

Tgt Ion:178 Resp: 555813  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.4 23.2  
179 14.9 12.4 18.6

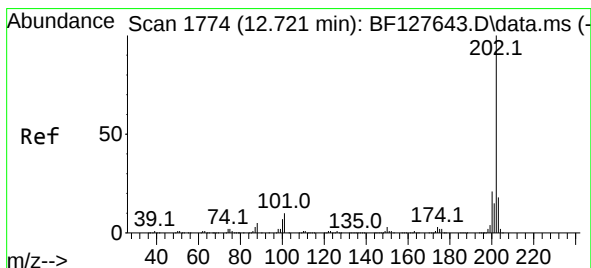
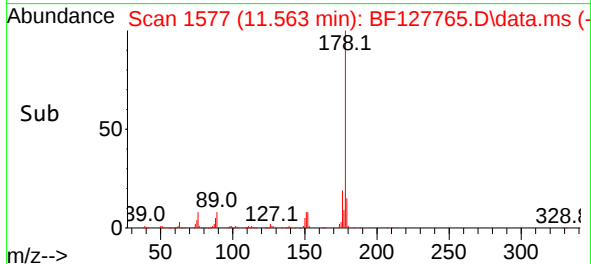
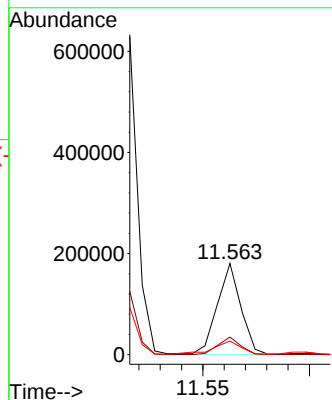
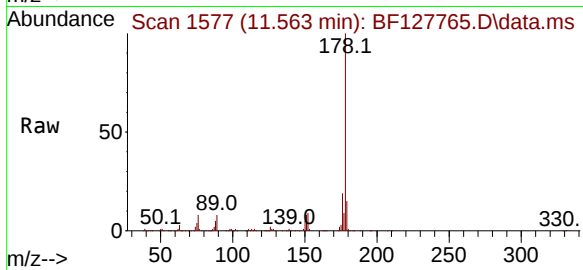




#72  
 Anthracene  
 Concen: 5.854 ng  
 RT: 11.563 min Scan# 1157  
 Delta R.T. -0.006 min  
 Lab File: BF127765.D  
 Acq: 12 Apr 2022 18:31

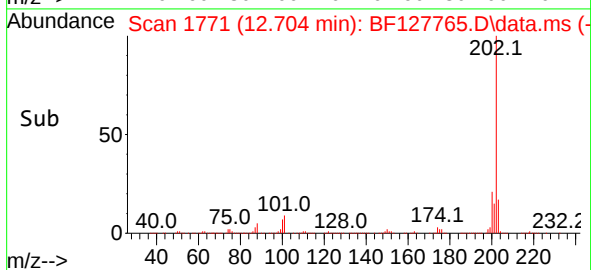
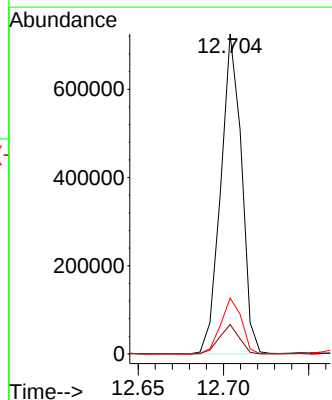
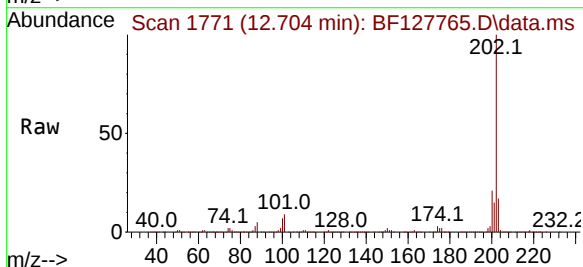
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-03-COMP

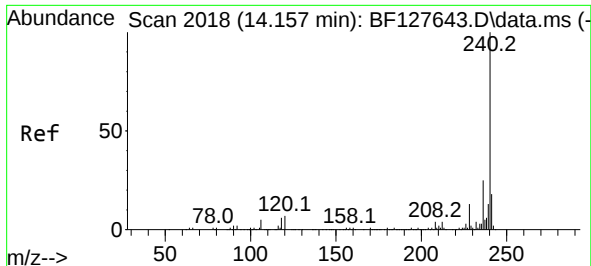
Tgt Ion:178 Resp: 137188  
 Ion Ratio Lower Upper  
 178 100  
 176 19.4 14.6 22.0  
 179 15.0 12.4 18.6



#75  
 Fluoranthene  
 Concen: 23.781 ng  
 RT: 12.704 min Scan# 1771  
 Delta R.T. -0.006 min  
 Lab File: BF127765.D  
 Acq: 12 Apr 2022 18:31

Tgt Ion:202 Resp: 614835  
 Ion Ratio Lower Upper  
 202 100  
 101 9.2 0.0 29.0  
 203 17.4 0.0 37.7

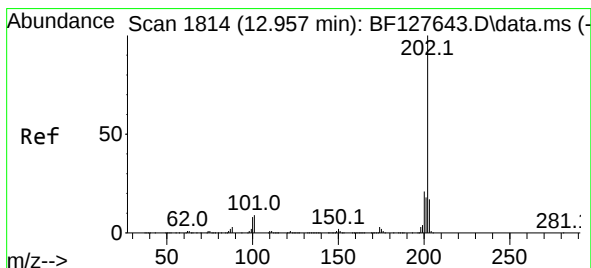
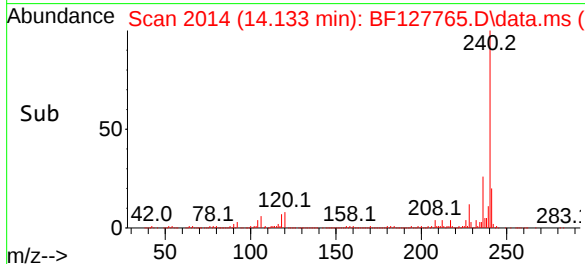
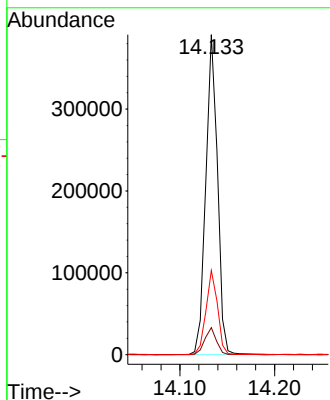
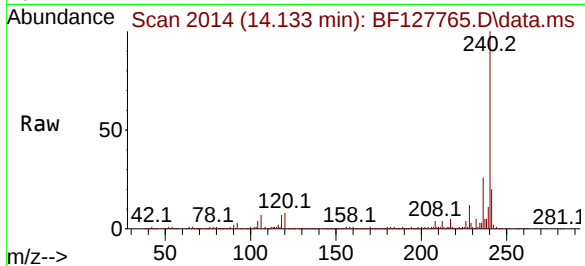




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.133 min Scan# 2014  
Delta R.T. -0.006 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

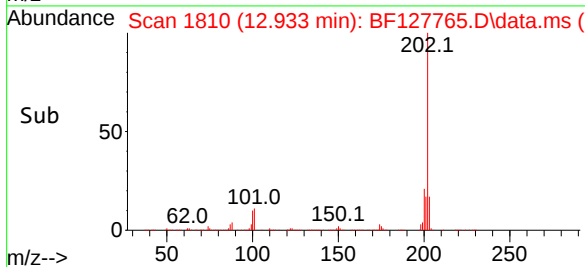
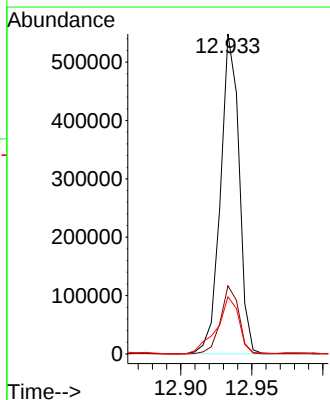
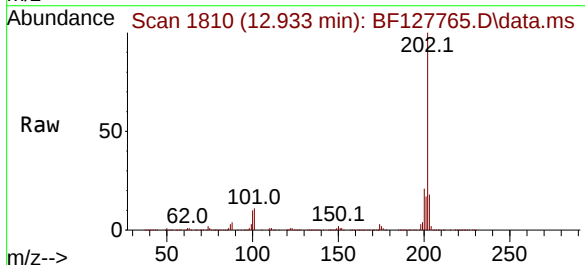
Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-COMP

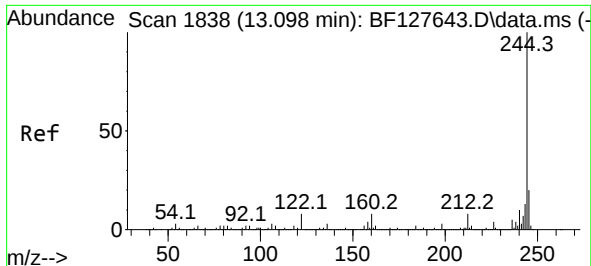
Tgt Ion:240 Resp: 334547  
Ion Ratio Lower Upper  
240 100  
120 8.5 7.1 10.7  
236 26.3 20.7 31.1



#78  
Pyrene  
Concen: 17.623 ng  
RT: 12.933 min Scan# 1810  
Delta R.T. -0.006 min  
Lab File: BF127765.D  
Acq: 12 Apr 2022 18:31

Tgt Ion:202 Resp: 497858  
Ion Ratio Lower Upper  
202 100  
200 21.3 17.1 25.7  
203 17.8 14.3 21.5

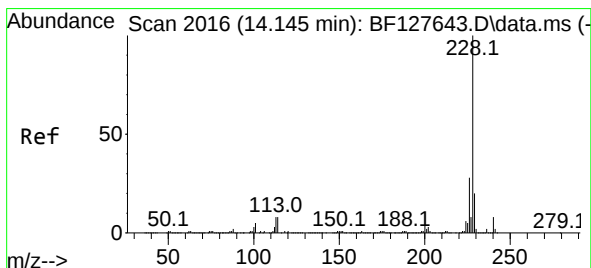
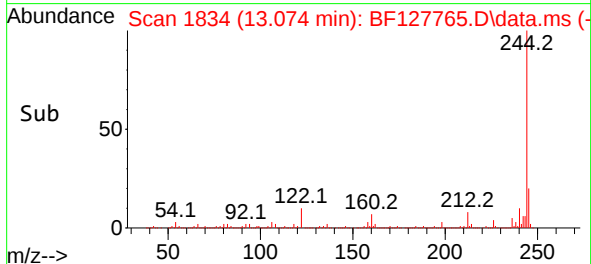
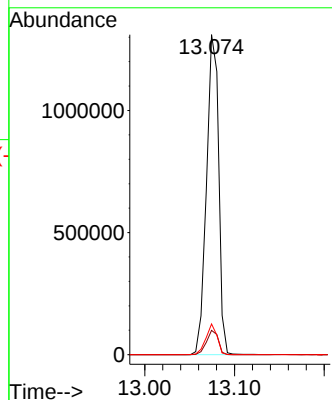
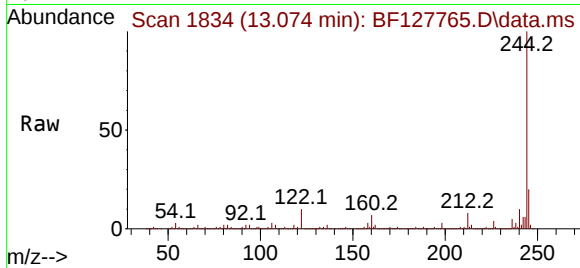




#79  
 Terphenyl-d14  
 Concen: 60.811 ng  
 RT: 13.074 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: BF127765.D  
 Acq: 12 Apr 2022 18:31

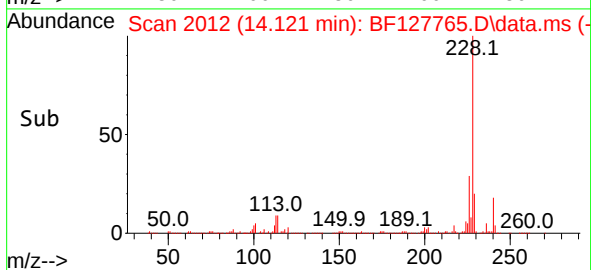
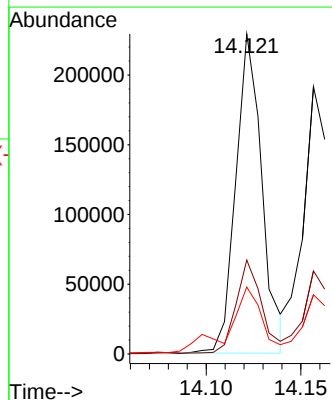
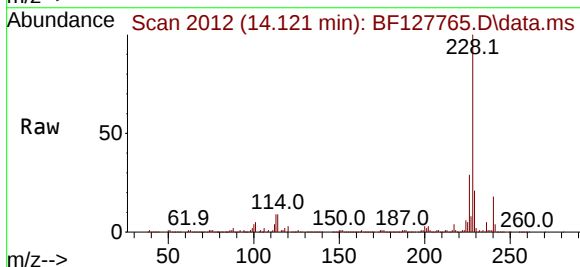
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-03-COMP

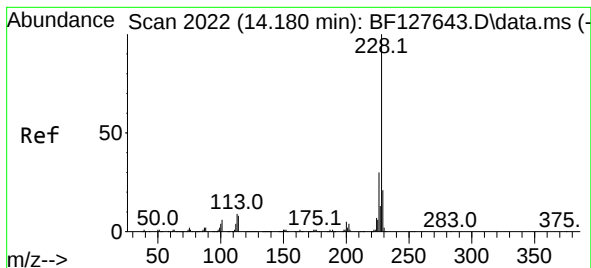
Tgt Ion:244 Resp: 1232520  
 Ion Ratio Lower Upper  
 244 100  
 212 7.6 5.7 8.5  
 122 9.6 6.2 9.2#



#81  
 Benzo(a)anthracene  
 Concen: 9.821 ng  
 RT: 14.121 min Scan# 2012  
 Delta R.T. -0.006 min  
 Lab File: BF127765.D  
 Acq: 12 Apr 2022 18:31

Tgt Ion:228 Resp: 219445  
 Ion Ratio Lower Upper  
 228 100  
 226 29.4 21.6 32.4  
 229 20.9 15.4 23.2





#83

Chrysene

Concen: 8.343 ng

RT: 14.157 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

Instrument :

BNA\_F

ClientSampleId :

SB-03-COMP

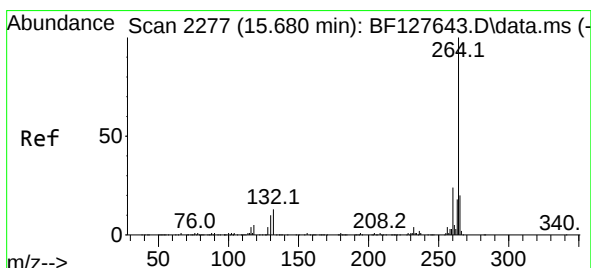
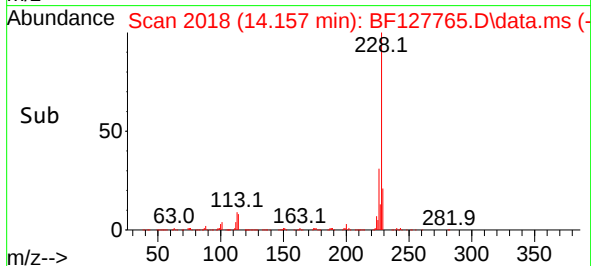
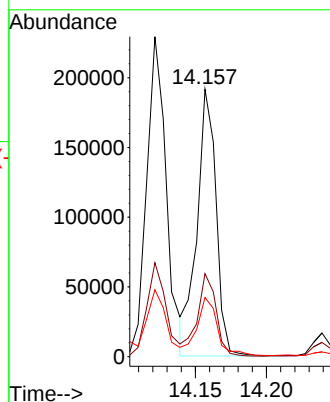
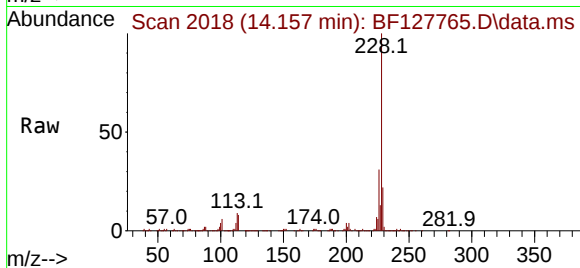
Tgt Ion:228 Resp: 178946

Ion Ratio Lower Upper

228 100

226 31.1 24.2 36.4

229 22.2 15.4 23.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.651 min Scan# 2272

Delta R.T. -0.006 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

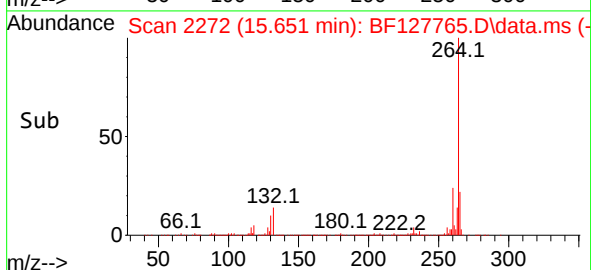
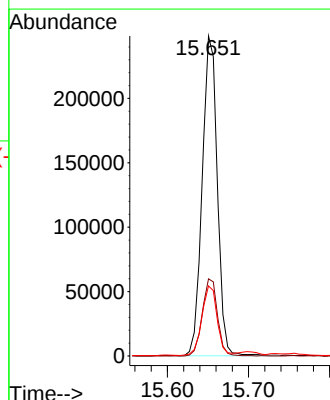
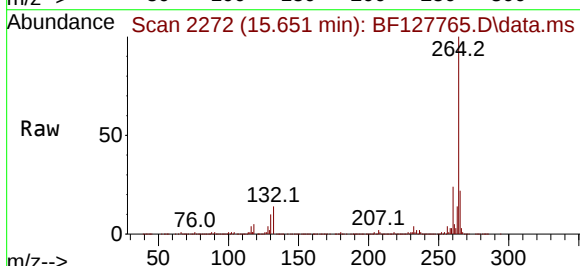
Tgt Ion:264 Resp: 320952

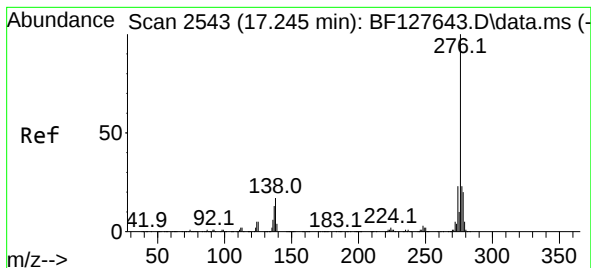
Ion Ratio Lower Upper

264 100

260 24.1 19.1 28.7

265 21.9 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.150 ng

RT: 17.198 min Scan# 2195

Delta R.T. -0.018 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

Instrument :

BNA\_F

ClientSampleId :

SB-03-COMP

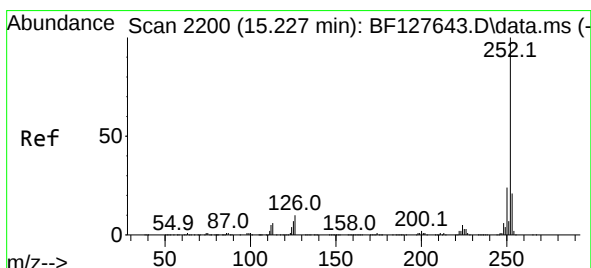
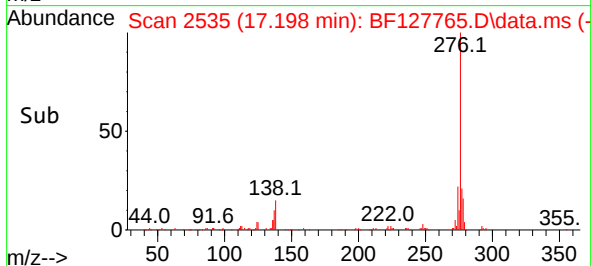
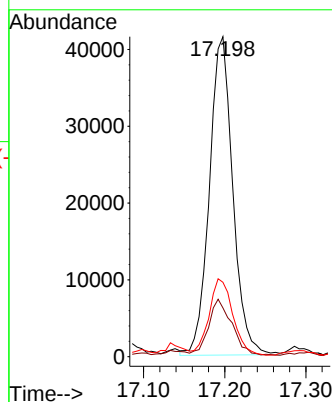
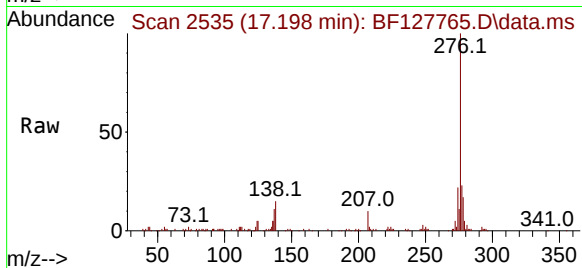
Tgt Ion:276 Resp: 83212

Ion Ratio Lower Upper

276 100

138 17.5 17.1 25.7

277 24.5 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 12.976 ng

RT: 15.198 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

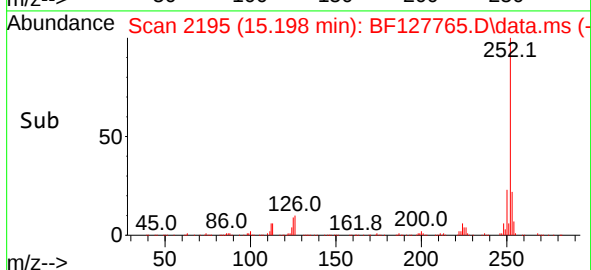
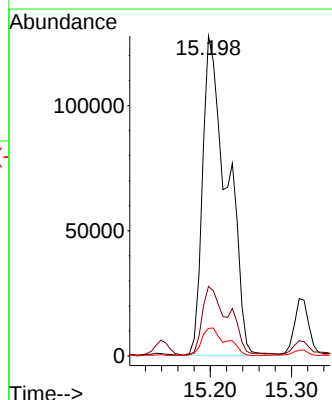
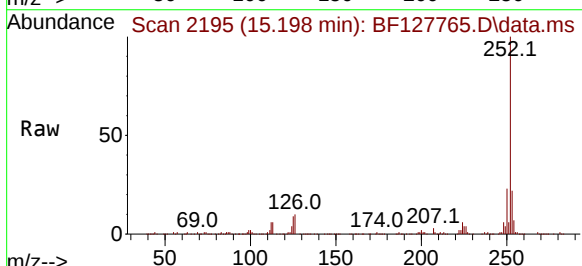
Tgt Ion:252 Resp: 267917

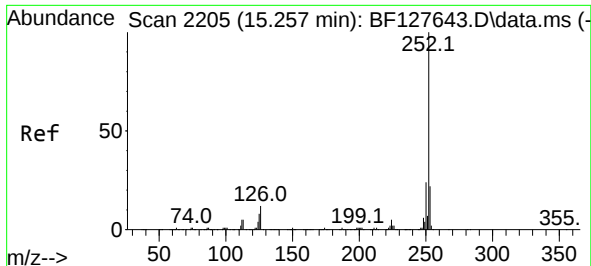
Ion Ratio Lower Upper

252 100

253 21.8 17.9 26.9

125 8.6 7.0 10.4





#89

Benzo(k)fluoranthene

Concen: 13.083 ng

RT: 15.198 min Scan# 2119

Delta R.T. -0.041 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

Instrument :

BNA\_F

ClientSampleId :

SB-03-COMP

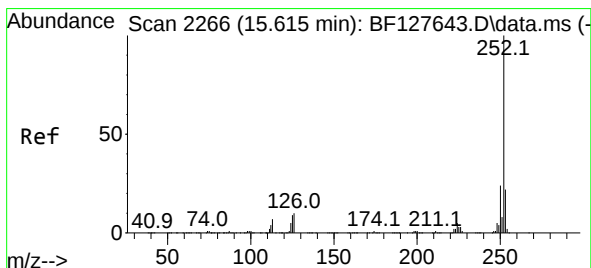
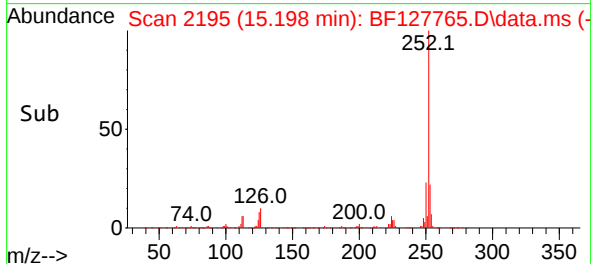
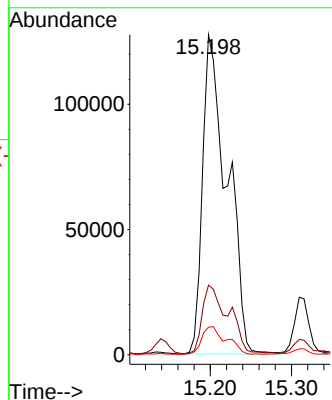
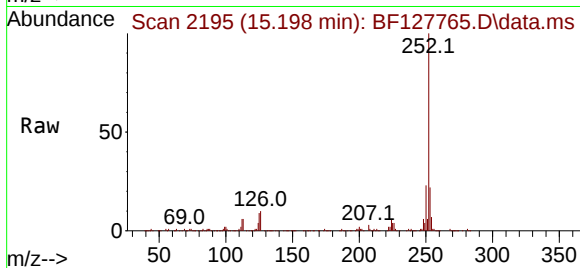
Tgt Ion:252 Resp: 267917

Ion Ratio Lower Upper

252 100

253 21.8 17.3 25.9

125 8.6 6.9 10.3



#90

Benzo(a)pyrene

Concen: 8.493 ng

RT: 15.586 min Scan# 2261

Delta R.T. -0.006 min

Lab File: BF127765.D

Acq: 12 Apr 2022 18:31

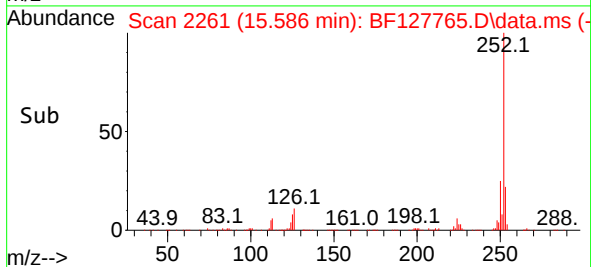
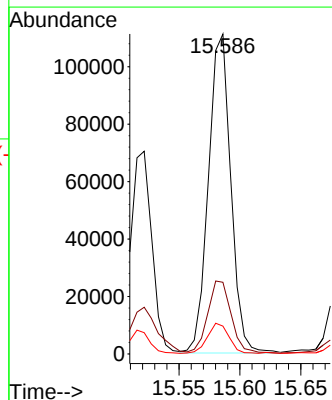
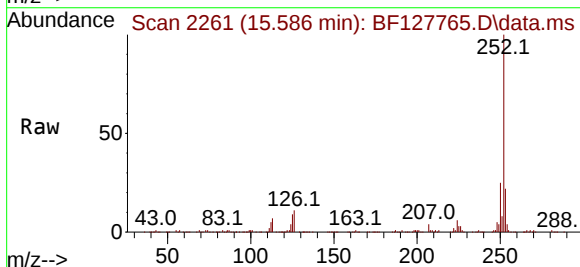
Tgt Ion:252 Resp: 142529

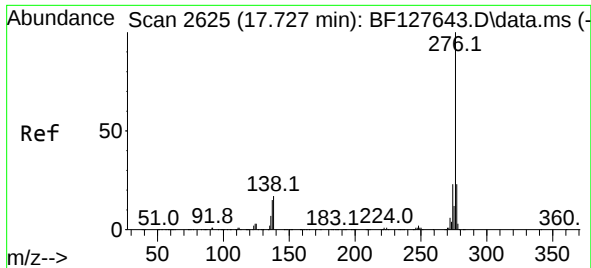
Ion Ratio Lower Upper

252 100

253 22.4 17.0 25.6

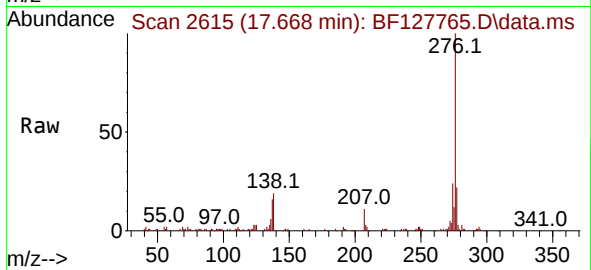
125 8.7 6.7 10.1





#92  
 Benzo(g,h,i)perylene  
 Concen: 4.242 ng  
 RT: 17.668 min Scan# 20  
 Delta R.T. -0.023 min  
 Lab File: BF127765.D  
 Acq: 12 Apr 2022 18:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-03-COMP



Tgt Ion:276 Resp: 70660  
 Ion Ratio Lower Upper  
 276 100  
 277 21.9 19.0 28.4  
 138 18.6 14.6 22.0

