

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102721\  
 Data File : BF125969.D  
 Acq On : 27 Oct 2021 18:12  
 Operator : JU/CG  
 Sample : M4356-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ETGI-282

Quant Time: Oct 28 08:59:32 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF102521.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 25 18:49:16 2021  
 Response via : Initial Calibration

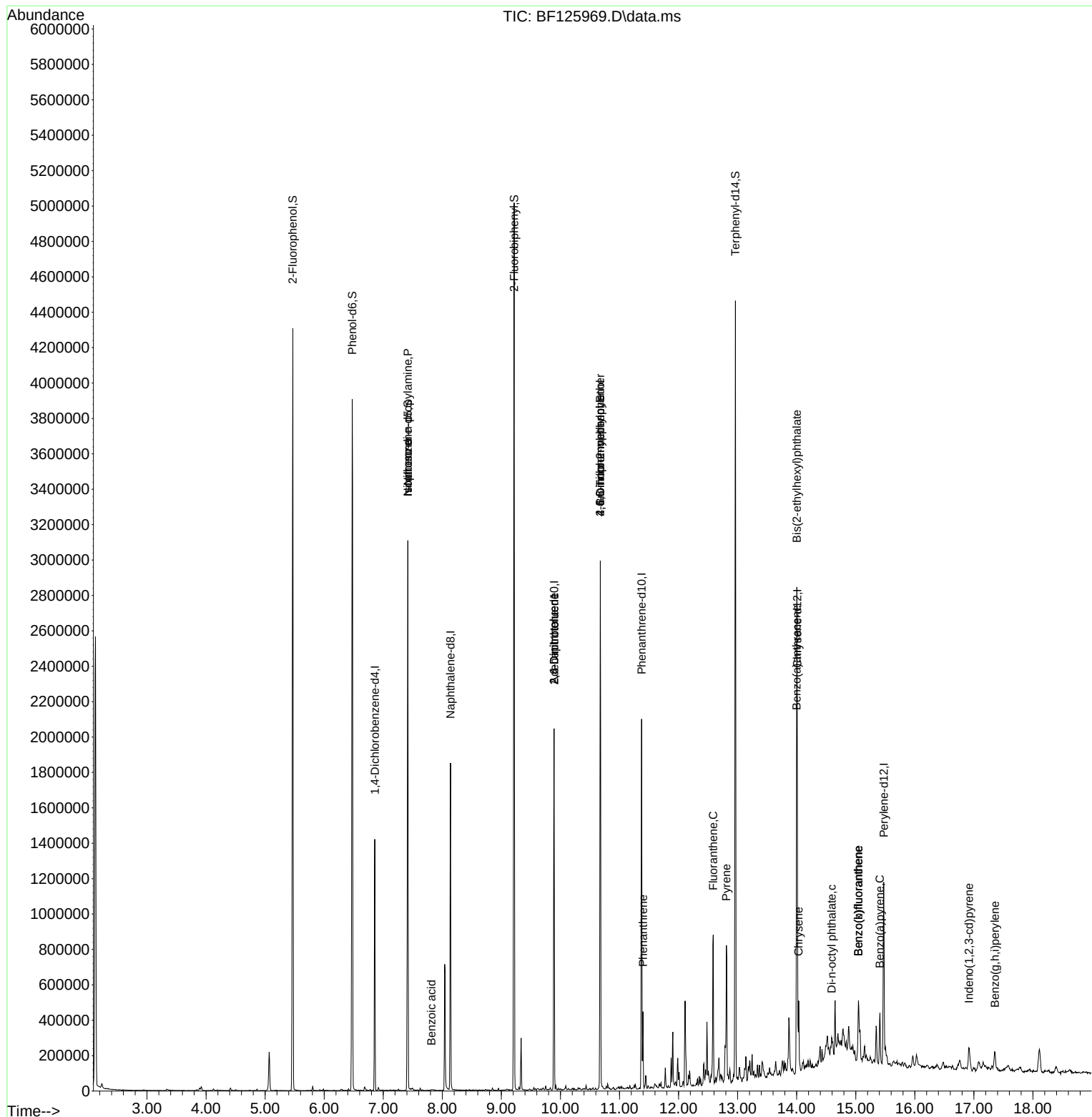
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.857  | 152  | 171112   | 20.000    | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.139  | 136  | 702489   | 20.000    | ng    | #-0.02   |
| 39) Acenaphthene-d10          | 9.892  | 164  | 397623   | 20.000    | ng    | -0.02    |
| 64) Phenanthrene-d10          | 11.374 | 188  | 721203   | 20.000    | ng    | -0.02    |
| 76) Chrysene-d12              | 14.010 | 240  | 396111   | 20.000    | ng    | -0.02    |
| 86) Perylene-d12              | 15.474 | 264  | 429948   | 20.000    | ng    | -0.02    |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.469  | 112  | 1005405  | 87.520    | ng    | -0.01    |
| 7) Phenol-d6                  | 6.475  | 99   | 1302247  | 82.649    | ng    | -0.02    |
| 23) Nitrobenzene-d5           | 7.416  | 82   | 840415   | 61.795    | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 10.675 | 330  | 297470   | 85.819    | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 9.216  | 172  | 1456940  | 64.797    | ng    | -0.02    |
| 79) Terphenyl-d14             | 12.963 | 244  | 1437433  | 59.358    | ng    | -0.02    |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.416  | 70   | 110598   | 12.286    | ng    | # 63     |
| 25) Isophorone                | 7.416  | 82   | 839283   | 32.406    | ng    | # 59     |
| 32) Benzoic acid              | 7.816  | 122  | 1531     | 4.360     | ng    | 96       |
| 51) 2,6-Dinitrotoluene        | 9.892  | 165  | 50916    | 10.481    | ng    | # 27     |
| 57) 2,4-Dinitrotoluene        | 9.892  | 165  | 50916    | 8.533     | ng    | # 19     |
| 58) Fluorene                  | 10.433 | 166  | 6006     | Below Cal | #     | 91       |
| 65) 4,6-Dinitro-2-methylph... | 10.675 | 198  | 606      | 6.232     | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.675 | 248  | 20774    | 2.696     | ng    | # 1      |
| 71) Phenanthrene              | 11.398 | 178  | 145247   | 3.881     | ng    | 98       |
| 75) Fluoranthene              | 12.586 | 202  | 335157   | 8.884     | ng    | 99       |
| 78) Pyrene                    | 12.810 | 202  | 314855   | 8.541     | ng    | 97       |
| 81) Benzo(a)anthracene        | 13.998 | 228  | 131063   | 4.916     | ng    | 98       |
| 83) Chrysene                  | 14.033 | 228  | 140835   | 5.221     | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 14.004 | 149  | 402792   | 31.006    | ng    | 98       |
| 85) Di-n-octyl phthalate      | 14.592 | 149  | 51504    | 2.559     | ng    | # 71     |
| 87) Indeno(1,2,3-cd)pyrene    | 16.915 | 276  | 92438    | 2.984     | ng    | # 89     |
| 88) Benzo(b)fluoranthene      | 15.045 | 252  | 250759   | 8.836     | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 15.045 | 252  | 250759   | 9.199     | ng    | # 97     |
| 90) Benzo(a)pyrene            | 15.409 | 252  | 134222   | 5.859     | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 17.356 | 276  | 85074    | 3.245     | ng    | # 90     |
| -----                         |        |      |          |           |       |          |

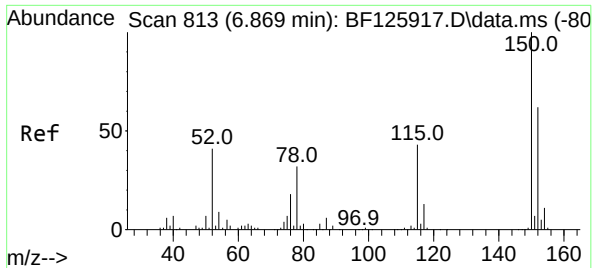
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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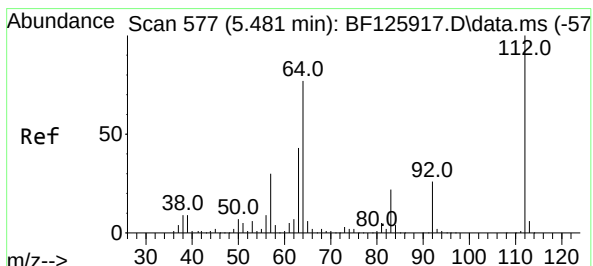
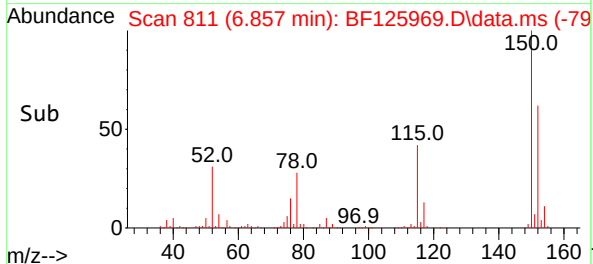
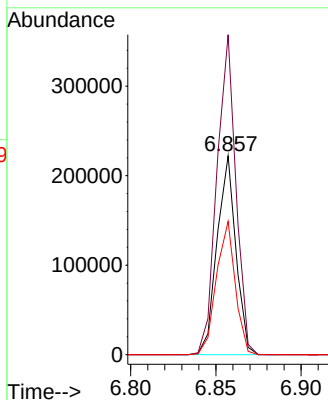
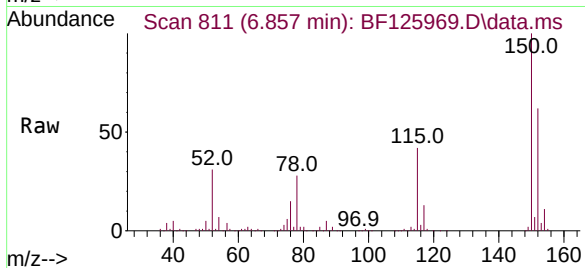




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.857 min Scan# 811  
Delta R.T. -0.012 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

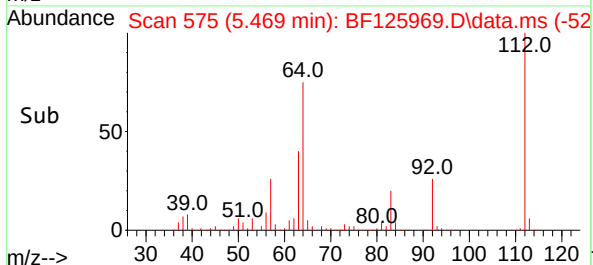
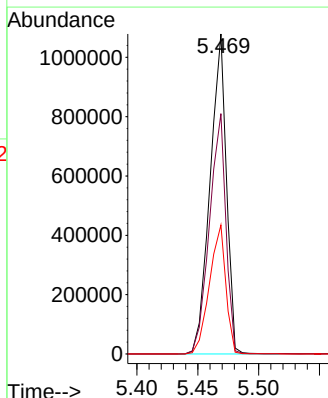
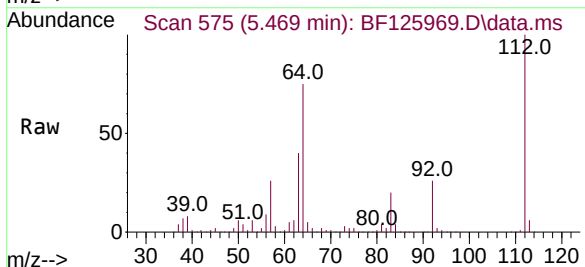
Instrument :  
BNA\_F  
ClientSampleId :  
ETGI-282

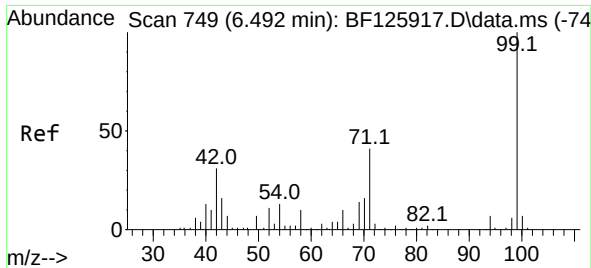
Tgt Ion:152 Resp: 171112  
Ion Ratio Lower Upper  
152 100  
150 160.9 117.6 176.4  
115 67.0 47.1 70.7



#5  
2-Fluorophenol  
Concen: 87.520 ng  
RT: 5.469 min Scan# 575  
Delta R.T. -0.012 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion:112 Resp: 1005405  
Ion Ratio Lower Upper  
112 100  
64 75.1 44.2 66.2#  
63 40.3 26.2 39.2#

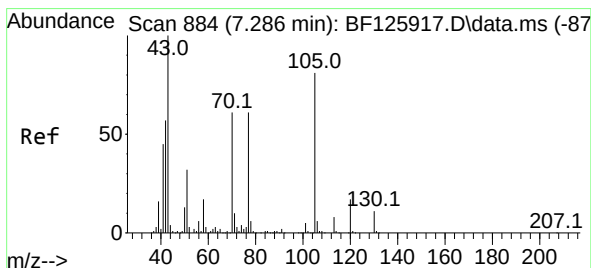
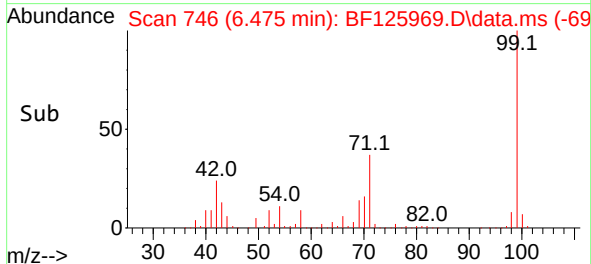
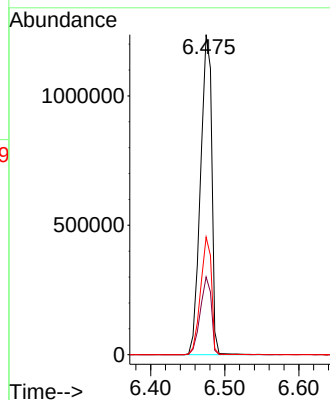
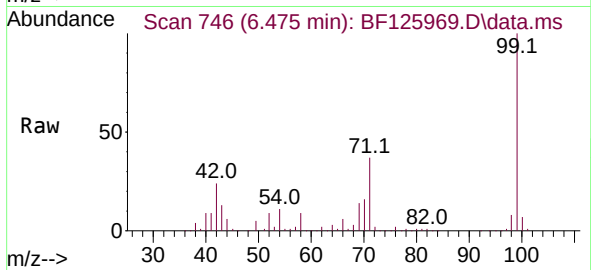




#7  
Phenol-d6  
Concen: 82.649 ng  
RT: 6.475 min Scan# 746  
Delta R.T. -0.018 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

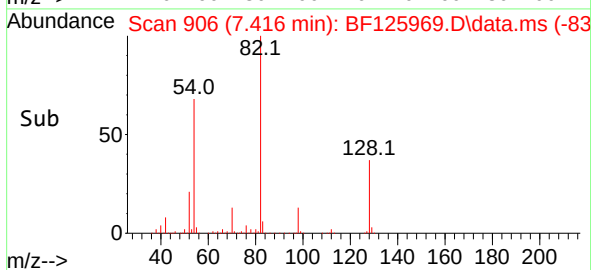
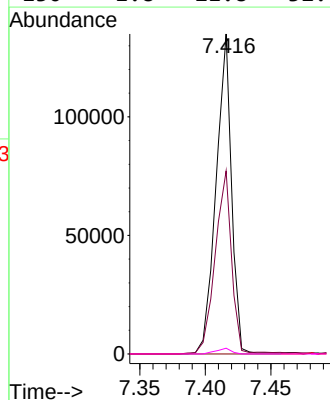
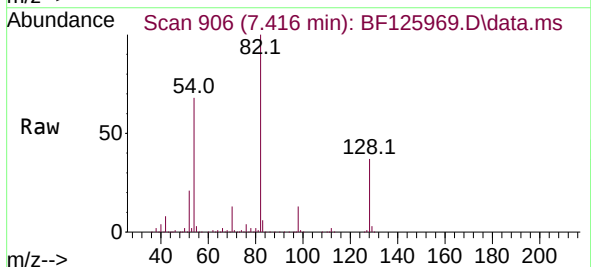
Instrument :  
BNA\_F  
ClientSampleId :  
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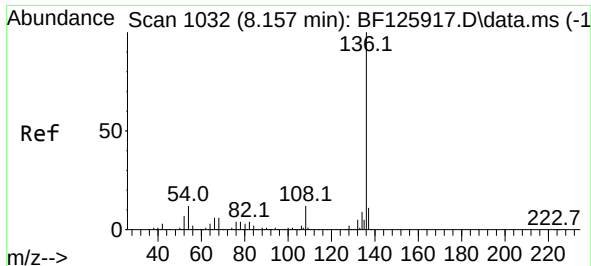
Tgt Ion: 99 Resp: 1302247  
Ion Ratio Lower Upper  
99 100  
42 24.3 23.5 35.3  
71 36.7 25.6 38.4



#19  
n-Nitroso-di-n-propylamine  
Concen: 12.286 ng  
RT: 7.416 min Scan# 906  
Delta R.T. 0.129 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

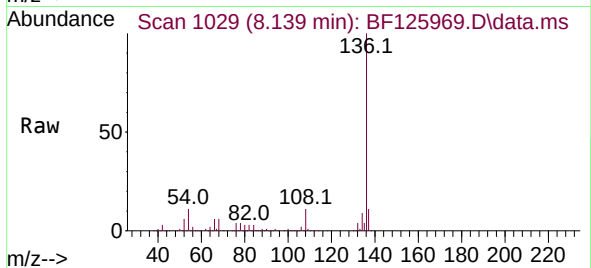
Tgt Ion: 70 Resp: 110598  
Ion Ratio Lower Upper  
70 100  
42 57.2 72.2 108.2#  
101 0.0 7.8 11.8#  
130 1.8 21.8 32.6#



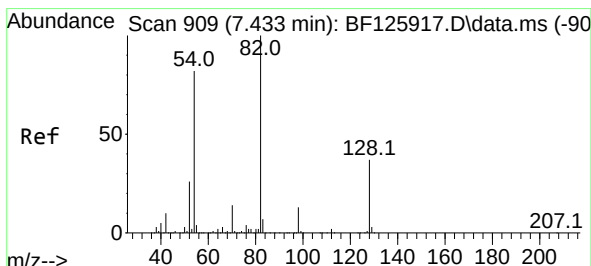
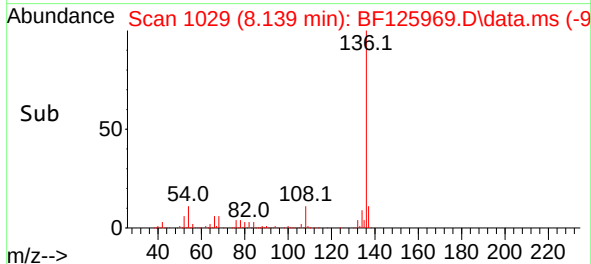
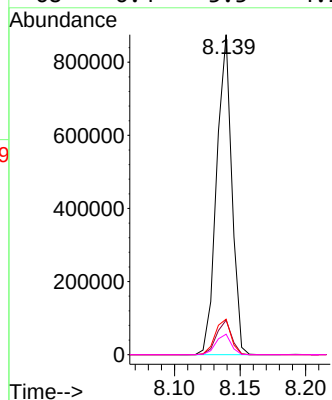


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.139 min Scan# 1029  
Delta R.T. -0.018 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

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BNA\_F  
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ETGI-282

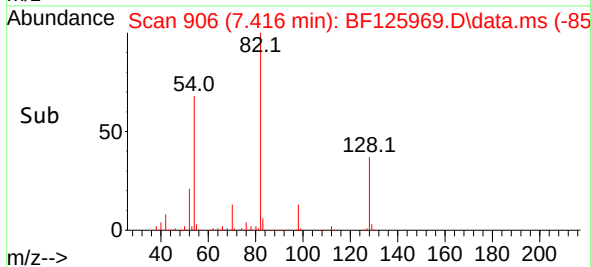
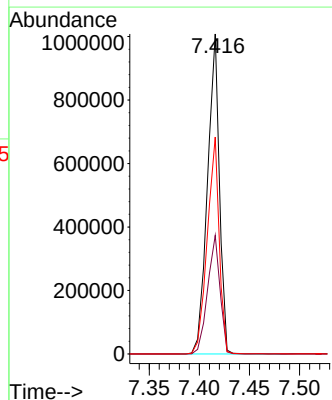
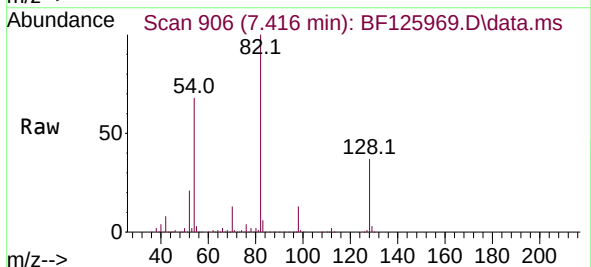


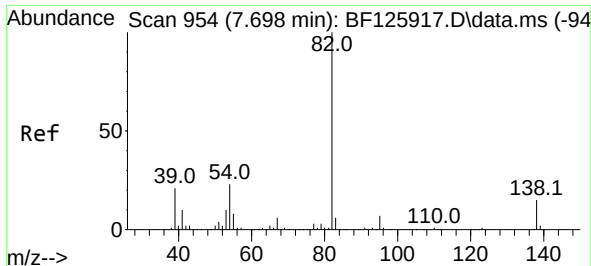
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 702489 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 9.8   | 14.6   |
| 54       | 11.1  | 6.4   | 9.6#   |
| 68       | 6.4   | 3.3   | 4.9#   |



#23  
Nitrobenzene-d5  
Concen: 61.795 ng  
RT: 7.416 min Scan# 906  
Delta R.T. -0.018 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 840415 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 37.1  | 40.6  | 60.8#  |
| 54       | 67.8  | 49.6  | 74.4   |

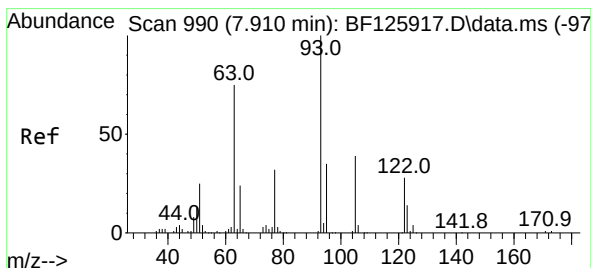
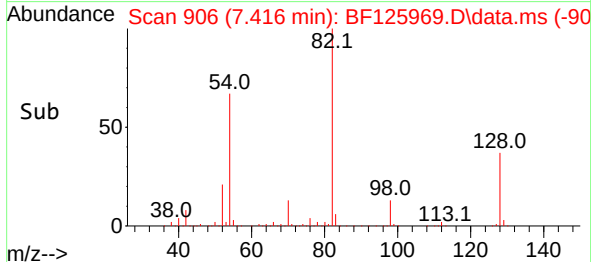
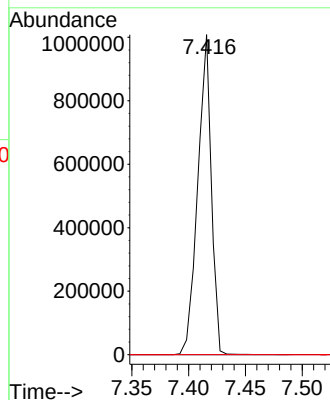
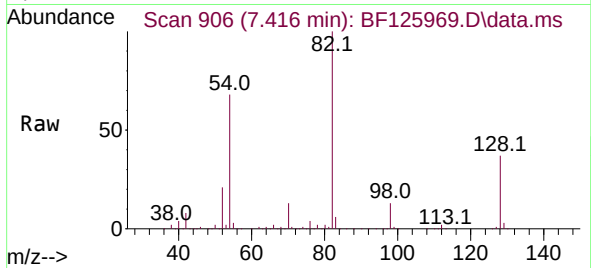




#25  
Isophorone  
Concen: 32.406 ng  
RT: 7.416 min Scan# 906  
Delta R.T. -0.282 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

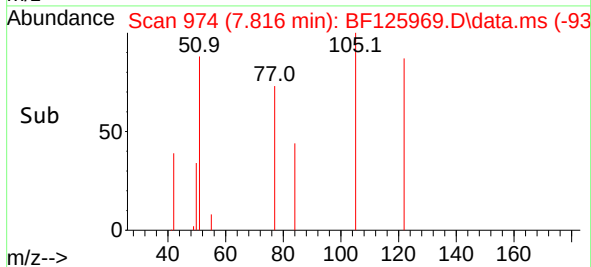
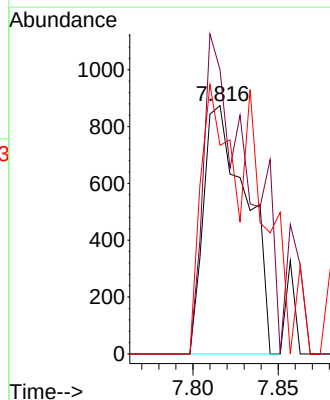
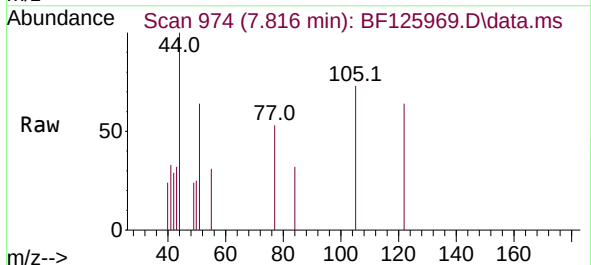
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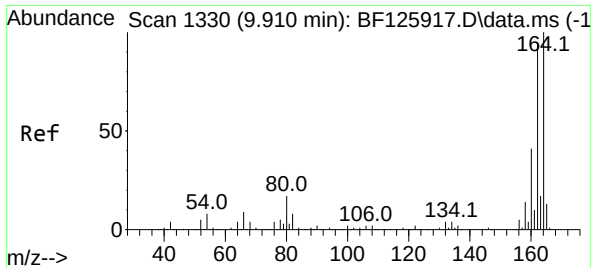
Tgt Ion: 82 Resp: 839283  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.5 9.7#  
138 0.0 18.4 27.6#



#32  
Benzoic acid  
Concen: 4.360 ng  
RT: 7.816 min Scan# 974  
Delta R.T. -0.094 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion: 122 Resp: 1531  
Ion Ratio Lower Upper  
122 100  
105 114.4 97.6 137.6  
77 84.0 59.6 99.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.892 min Scan# 1327

Delta R.T. -0.018 min

Lab File: BF125969.D

Acq: 27 Oct 2021 18:12

Instrument :

BNA\_F

ClientSampleId :

ETGI-282

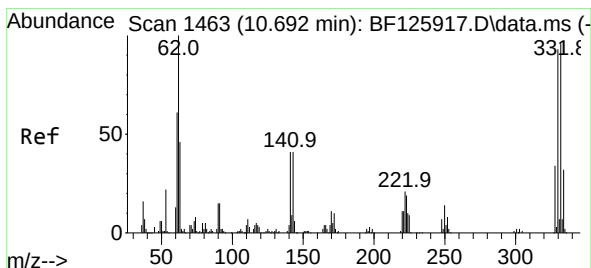
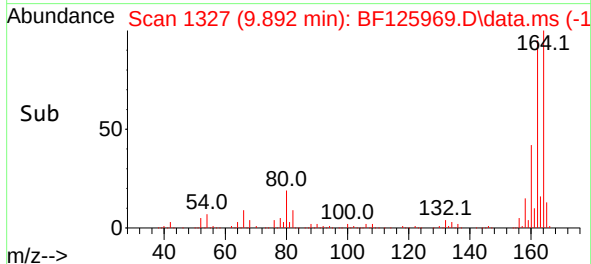
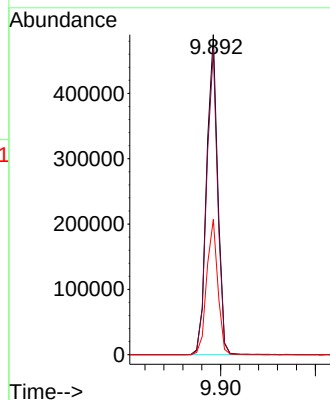
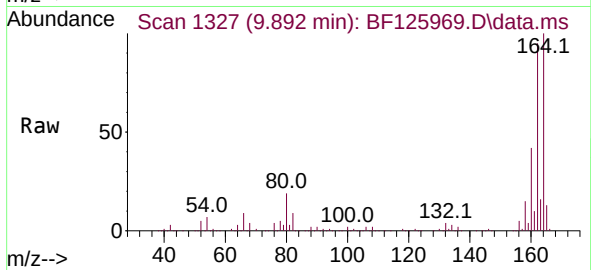
Tgt Ion:164 Resp: 397623

Ion Ratio Lower Upper

164 100

162 95.3 81.3 121.9

160 42.2 38.0 57.0



#42

2,4,6-Tribromophenol

Concen: 85.819 ng

RT: 10.675 min Scan# 1460

Delta R.T. -0.018 min

Lab File: BF125969.D

Acq: 27 Oct 2021 18:12

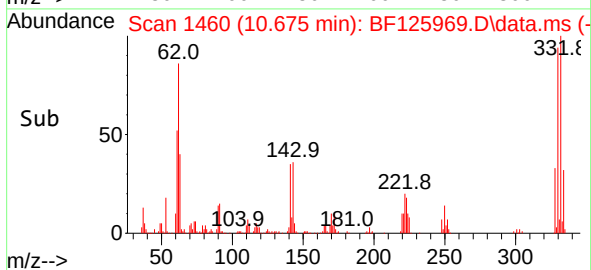
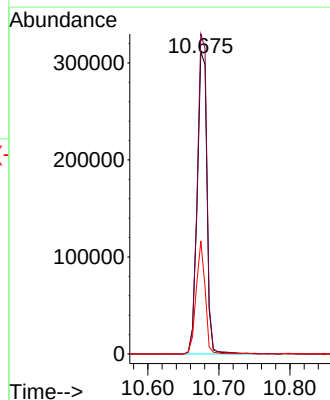
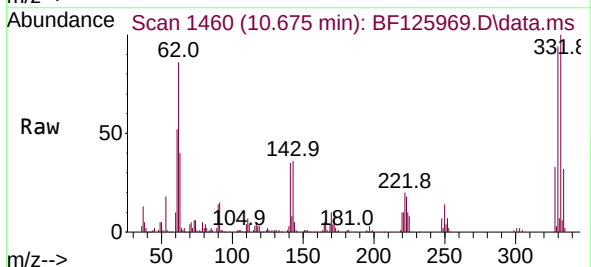
Tgt Ion:330 Resp: 297470

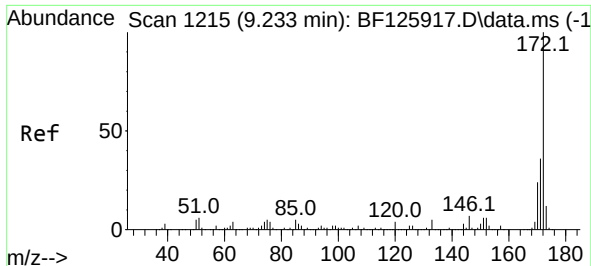
Ion Ratio Lower Upper

330 100

332 105.1 76.2 114.4

141 34.4 44.6 66.8#

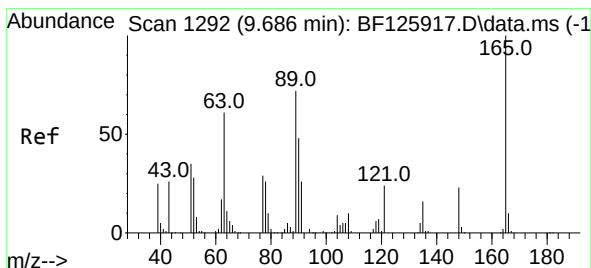
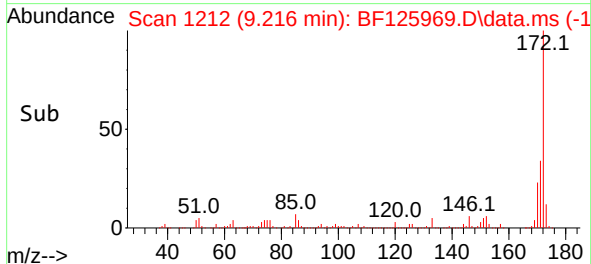
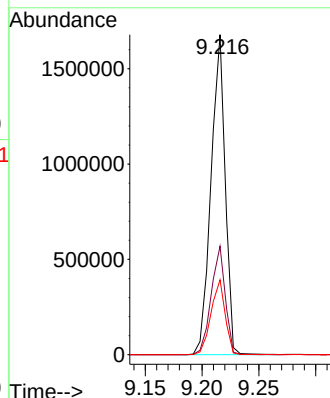
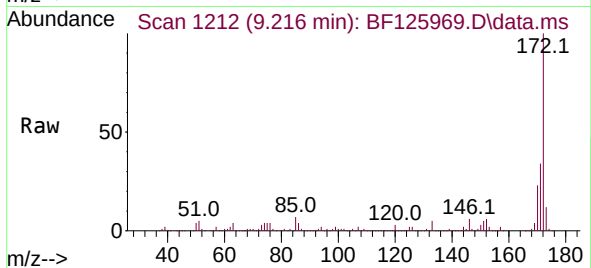




#45  
2-Fluorobiphenyl  
Concen: 64.797 ng  
RT: 9.216 min Scan# 1212  
Delta R.T. -0.018 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

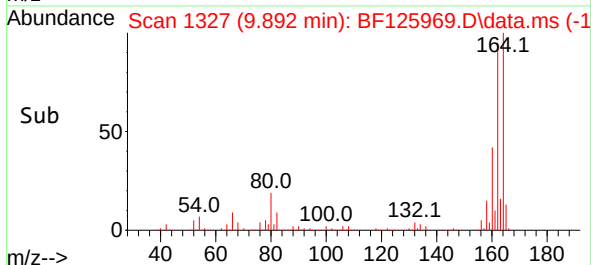
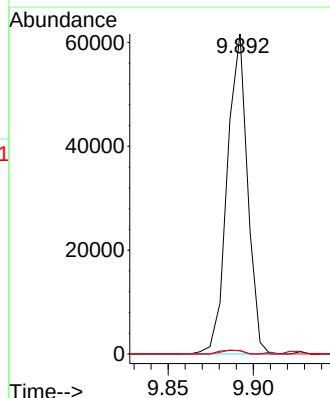
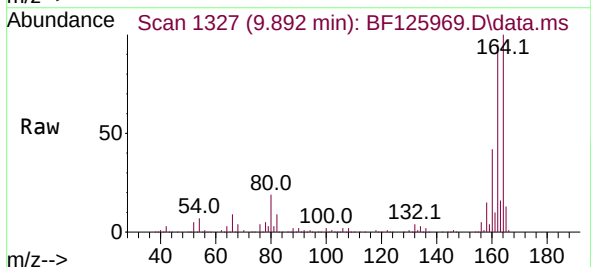
Instrument :  
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ETGI-282

Tgt Ion:172 Resp: 1456940  
Ion Ratio Lower Upper  
172 100  
171 33.9 26.5 39.7  
170 23.4 18.8 28.2

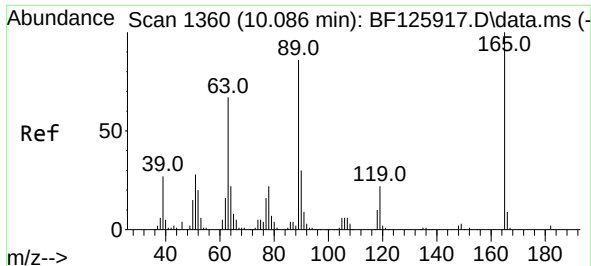


#51  
2,6-Dinitrotoluene  
Concen: 10.481 ng  
RT: 9.892 min Scan# 1327  
Delta R.T. 0.206 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion:165 Resp: 50916  
Ion Ratio Lower Upper  
165 100  
63 1.1 42.6 63.8#  
89 0.9 40.6 60.8#

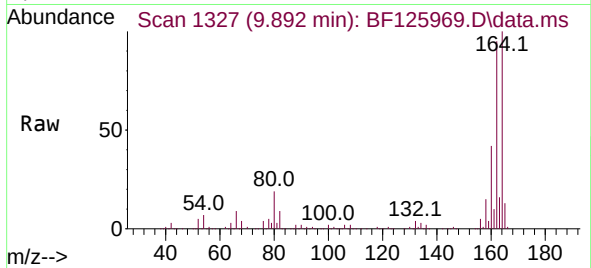




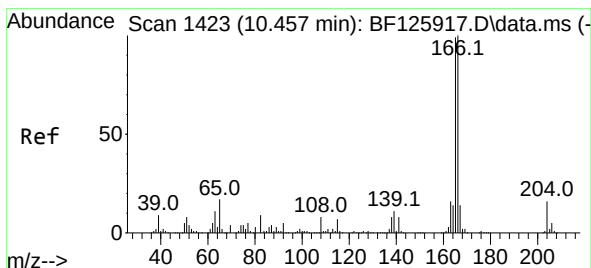
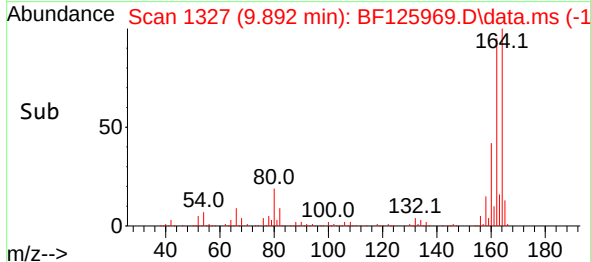
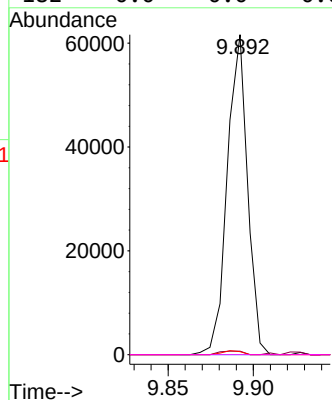


#57  
2,4-Dinitrotoluene  
Concen: 8.533 ng  
RT: 9.892 min Scan# 1327  
Delta R.T. -0.194 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Instrument :  
BNA\_F  
ClientSampleId :  
ETGI-282

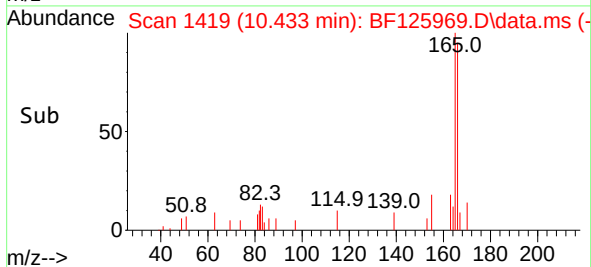
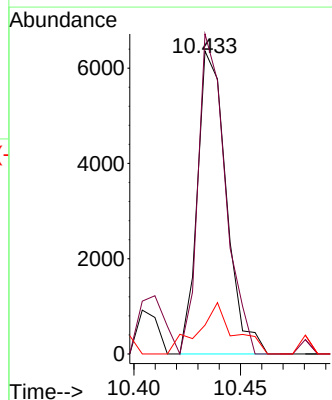
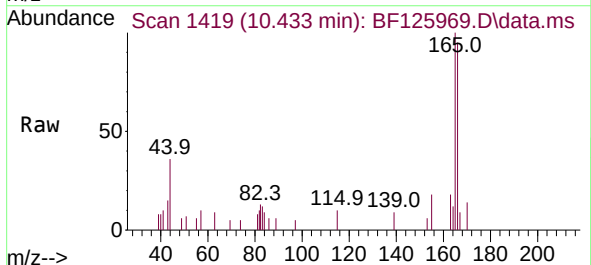


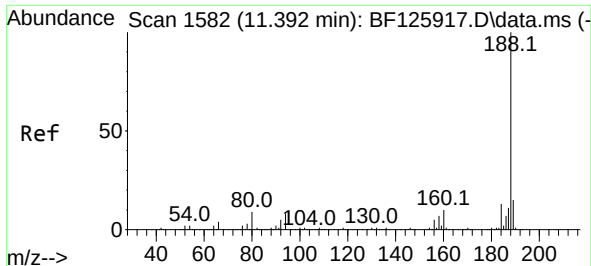
Tgt Ion:165 Resp: 50916  
Ion Ratio Lower Upper  
165 100  
63 1.1 40.9 61.3#  
89 0.9 59.7 89.5#  
182 0.0 0.0 0.0



#58  
Fluorene  
Concen: Below Cal  
RT: 10.433 min Scan# 1419  
Delta R.T. -0.024 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion:166 Resp: 6006  
Ion Ratio Lower Upper  
166 100  
165 105.7 78.1 117.1  
167 9.5 11.1 16.7#

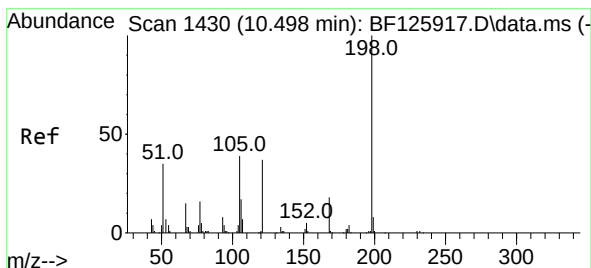
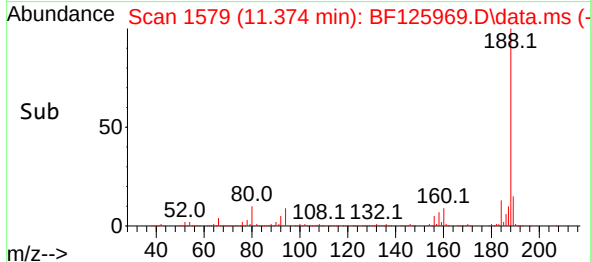
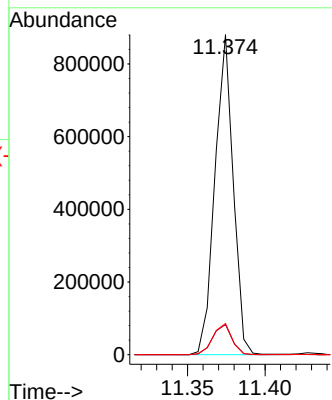
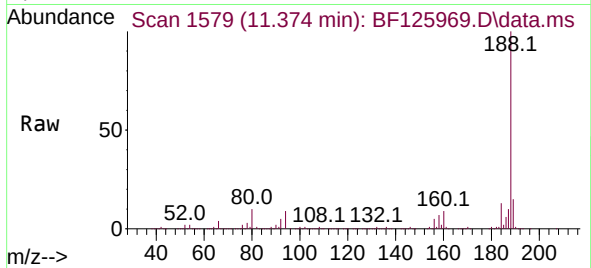




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.374 min Scan# 1579  
Delta R.T. -0.018 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

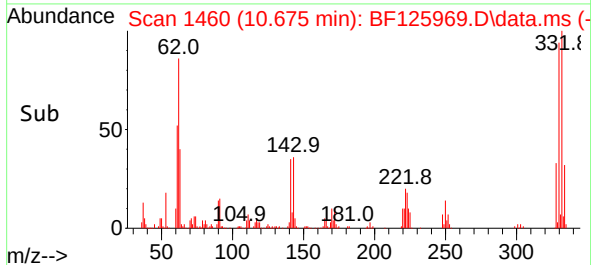
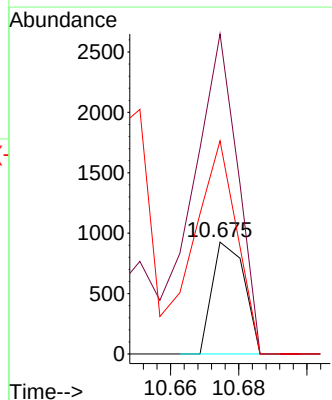
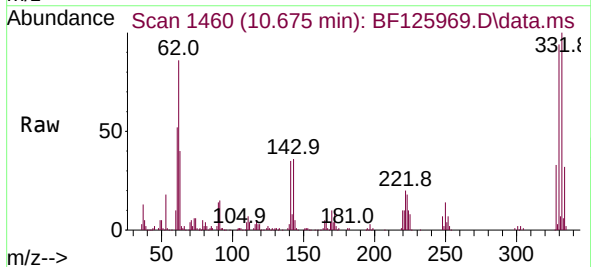
Instrument :  
BNA\_F  
ClientSampleId :  
ETGI-282

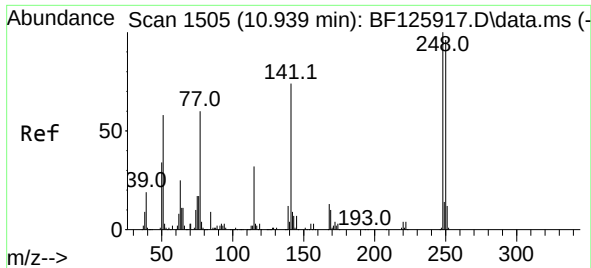
Tgt Ion:188 Resp: 721203  
Ion Ratio Lower Upper  
188 100  
94 9.4 6.7 10.1  
80 9.8 7.5 11.3



#65  
4,6-Dinitro-2-methylphenol  
Concen: 6.232 ng  
RT: 10.675 min Scan# 1460  
Delta R.T. 0.177 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion:198 Resp: 606  
Ion Ratio Lower Upper  
198 100  
51 286.1 45.3 85.3#  
105 190.6 30.6 70.6#

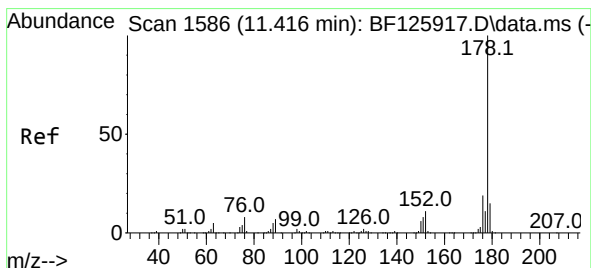
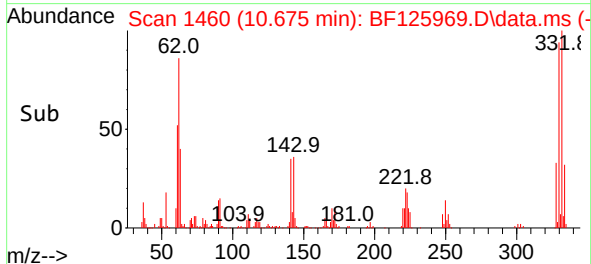
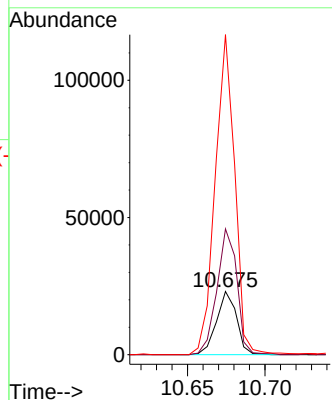
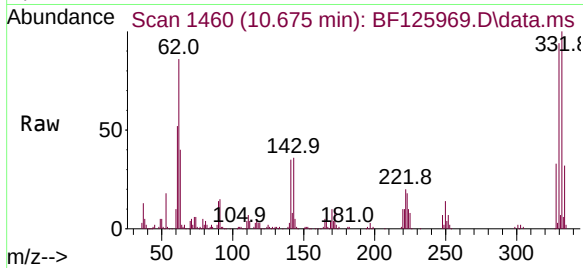




#67  
4-Bromophenyl-phenylether  
Concen: 2.696 ng  
RT: 10.675 min Scan# 1460  
Delta R.T. -0.265 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

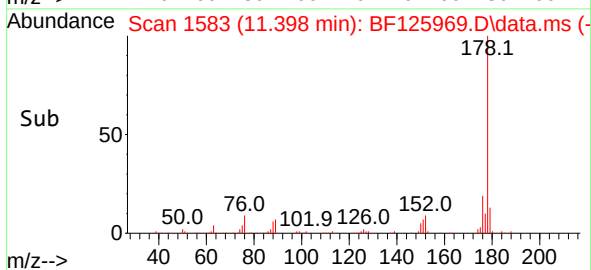
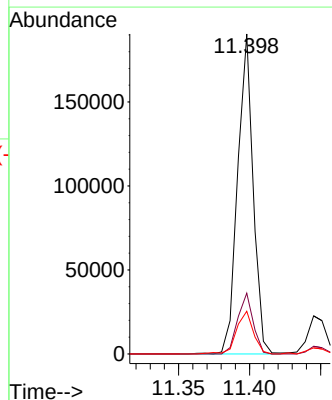
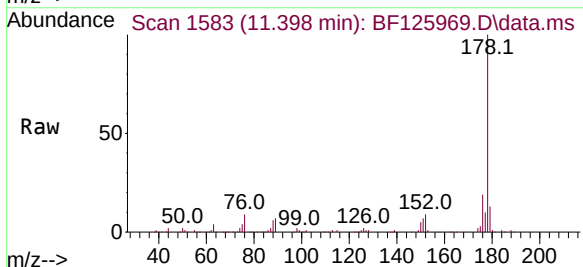
Instrument :  
BNA\_F  
ClientSampleId :  
ETGI-282

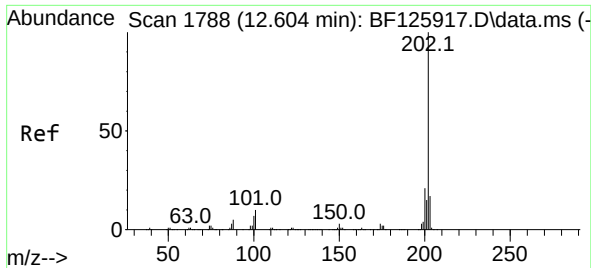
Tgt Ion:248 Resp: 20774  
Ion Ratio Lower Upper  
248 100  
250 199.0 74.2 111.4#  
141 505.9 60.4 90.6#



#71  
Phenanthrene  
Concen: 3.881 ng  
RT: 11.398 min Scan# 1583  
Delta R.T. -0.018 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion:178 Resp: 145247  
Ion Ratio Lower Upper  
178 100  
176 19.0 14.7 22.1  
179 13.4 11.5 17.3

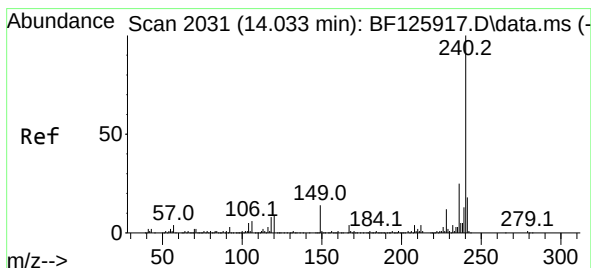
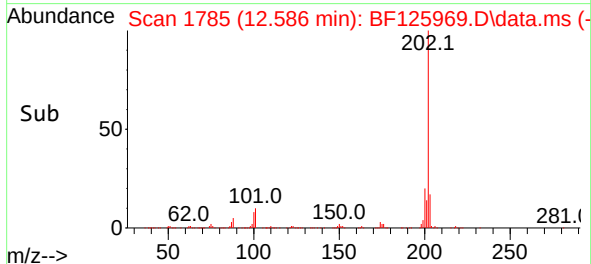
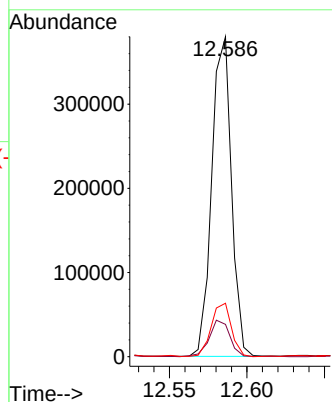
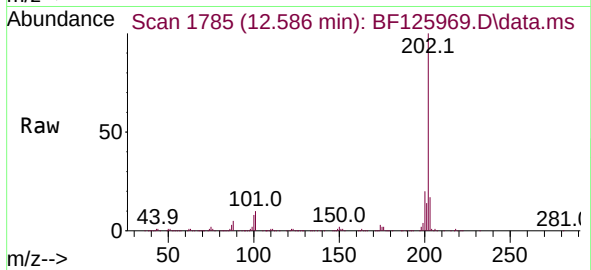




#75  
Fluoranthene  
Concen: 8.884 ng  
RT: 12.586 min Scan# 1785  
Delta R.T. -0.018 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

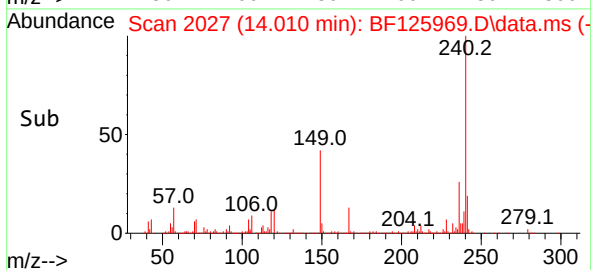
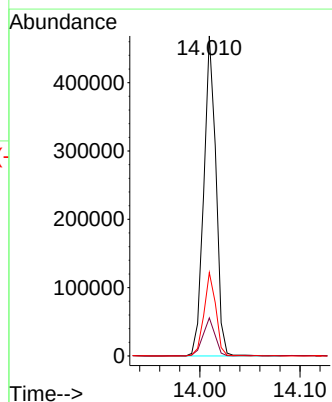
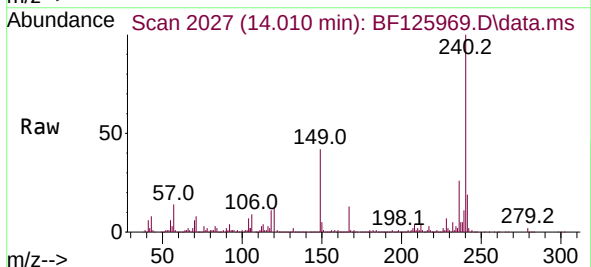
Instrument :  
BNA\_F  
ClientSampleId :  
ETGI-282

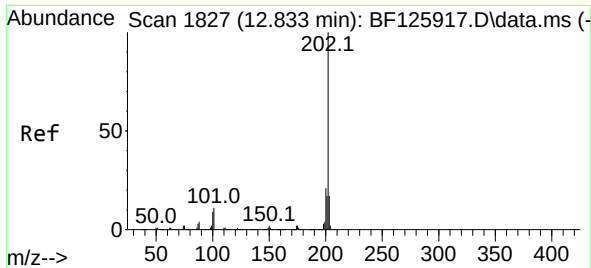
Tgt Ion:202 Resp: 335157  
Ion Ratio Lower Upper  
202 100  
101 10.1 0.0 30.7  
203 16.7 0.0 36.3



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.010 min Scan# 2027  
Delta R.T. -0.023 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion:240 Resp: 396111  
Ion Ratio Lower Upper  
240 100  
120 11.9 10.8 16.2  
236 26.0 21.6 32.4

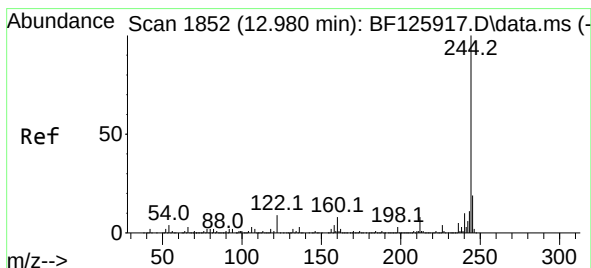
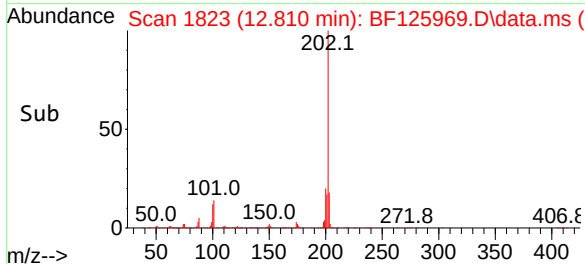
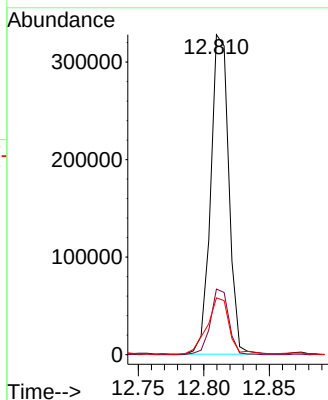
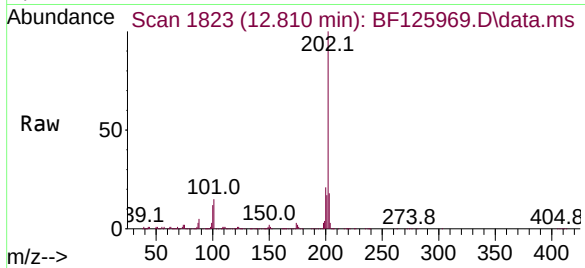




#78  
Pyrene  
Concen: 8.541 ng  
RT: 12.810 min Scan# 1823  
Delta R.T. -0.023 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

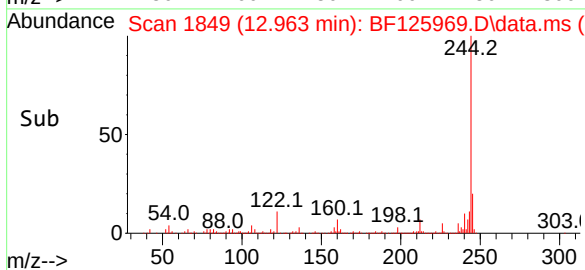
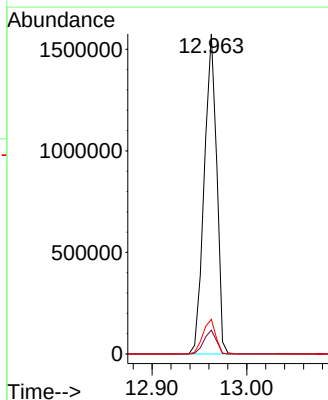
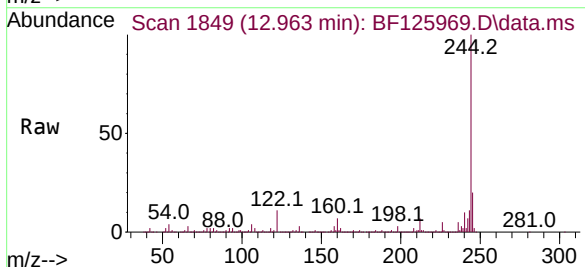
Instrument :  
BNA\_F  
ClientSampleId :  
ETGI-282

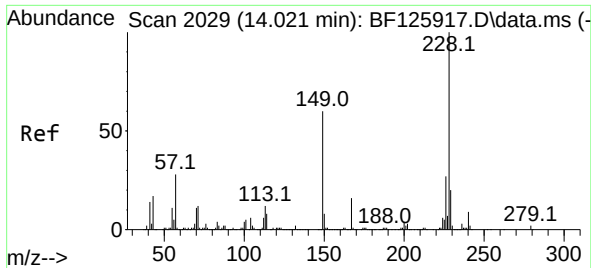
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 314855 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.5  | 15.3  | 22.9   |
| 203       | 17.7  | 13.4  | 20.0   |



#79  
Terphenyl-d14  
Concen: 59.358 ng  
RT: 12.963 min Scan# 1849  
Delta R.T. -0.018 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 1437433 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 7.5   | 5.9   | 8.9     |
| 122       | 10.9  | 9.0   | 13.4    |

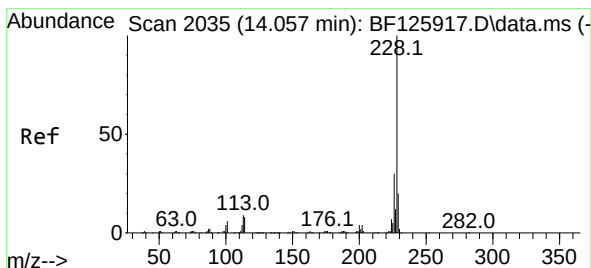
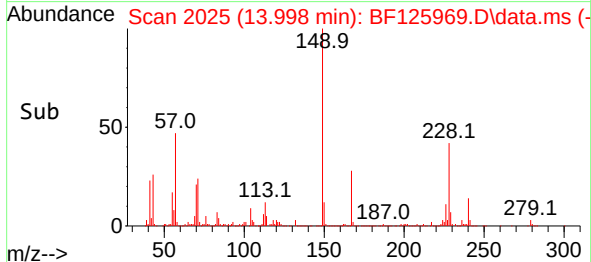
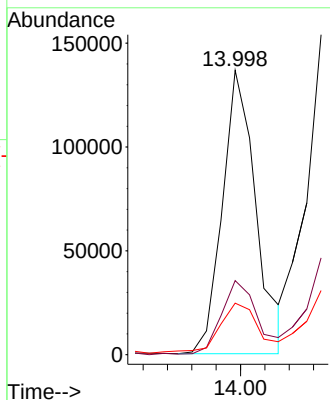
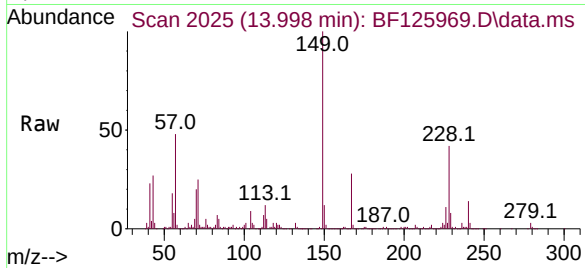




#81  
Benzo(a)anthracene  
Concen: 4.916 ng  
RT: 13.998 min Scan# 2025  
Delta R.T. -0.023 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

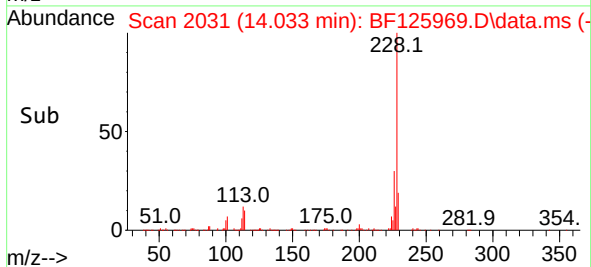
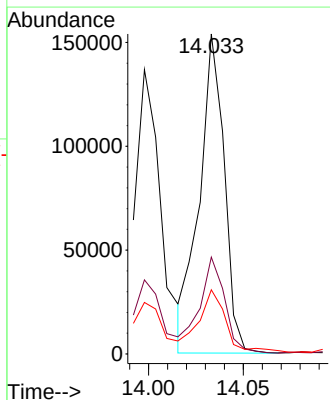
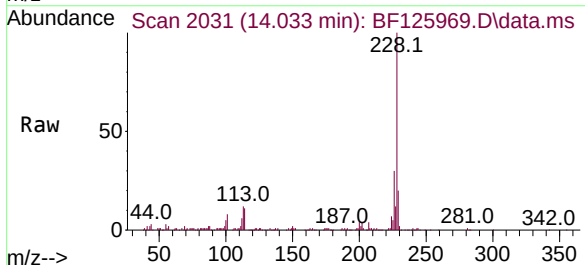
Instrument :  
BNA\_F  
ClientSampleId :  
ETGI-282

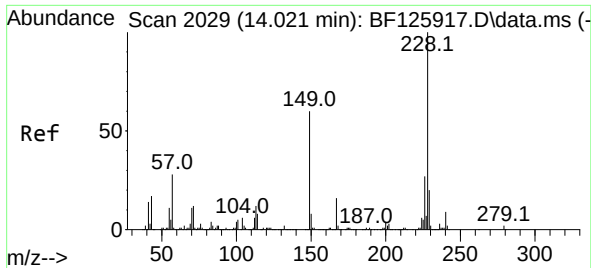
Tgt Ion:228 Resp: 131063  
Ion Ratio Lower Upper  
228 100  
226 26.1 21.6 32.4  
229 18.2 15.6 23.4



#83  
Chrysene  
Concen: 5.221 ng  
RT: 14.033 min Scan# 2031  
Delta R.T. -0.023 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion:228 Resp: 140835  
Ion Ratio Lower Upper  
228 100  
226 30.3 22.6 34.0  
229 20.0 15.9 23.9

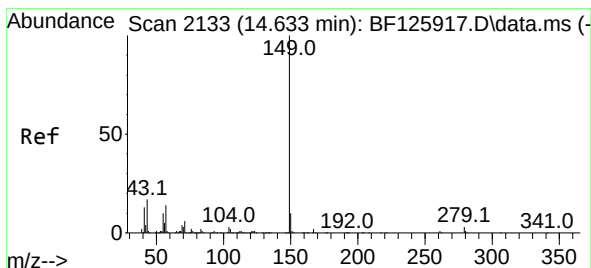
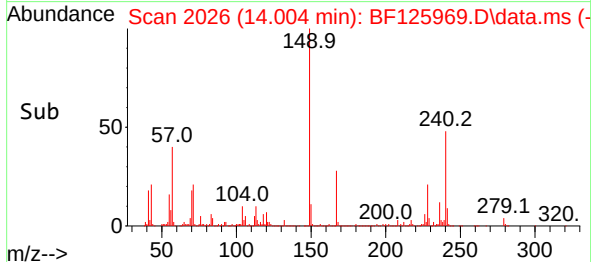
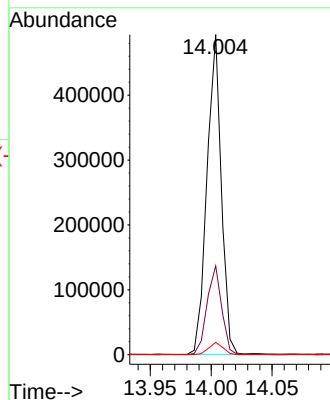
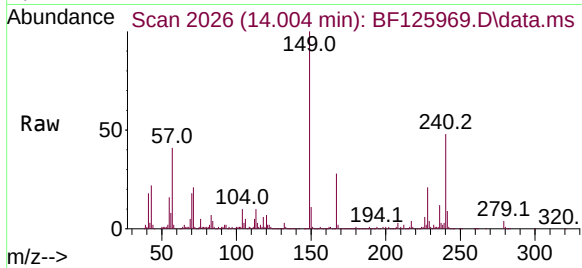




#84  
Bis(2-ethylhexyl)phthalate  
Concen: 31.006 ng  
RT: 14.004 min Scan# 2026  
Delta R.T. -0.018 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

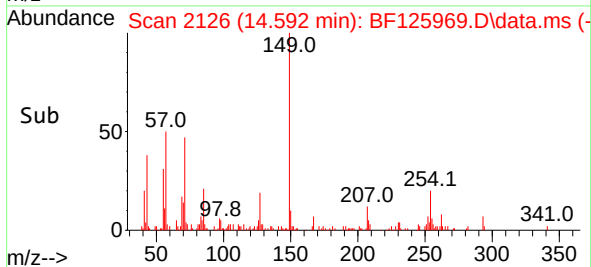
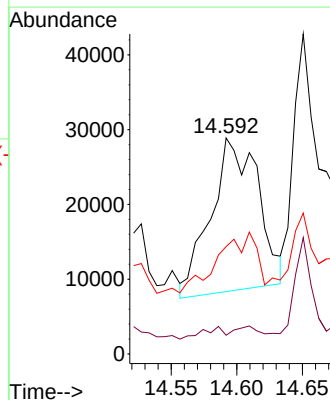
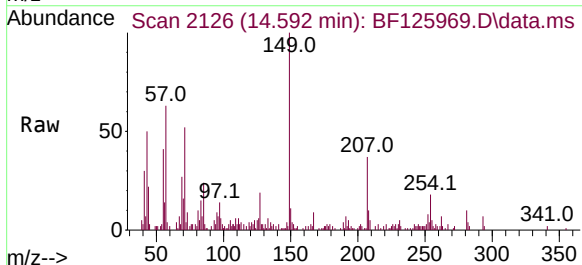
Instrument :  
BNA\_F  
ClientSampleId :  
ETGI-282

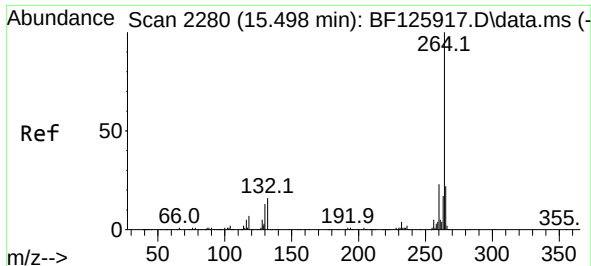
Tgt Ion:149 Resp: 402792  
Ion Ratio Lower Upper  
149 100  
167 27.8 21.4 32.0  
279 3.8 2.6 4.0



#85  
Di-n-octyl phthalate  
Concen: 2.559 ng  
RT: 14.592 min Scan# 2126  
Delta R.T. -0.041 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion:149 Resp: 51504  
Ion Ratio Lower Upper  
149 100  
167 3.6 1.0 1.6#  
43 0.0 9.9 14.9#

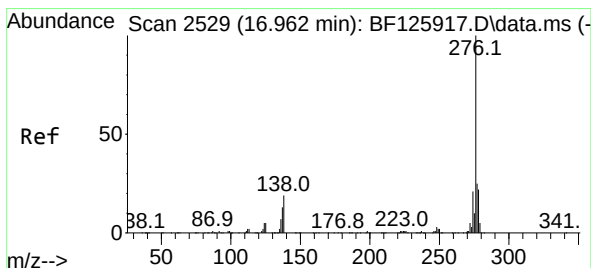
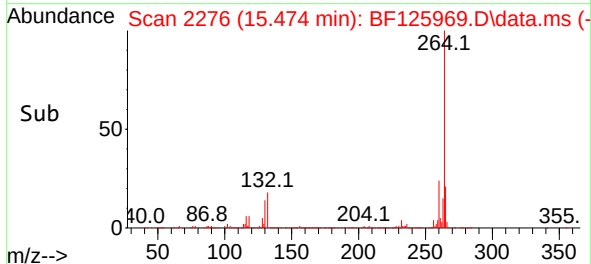
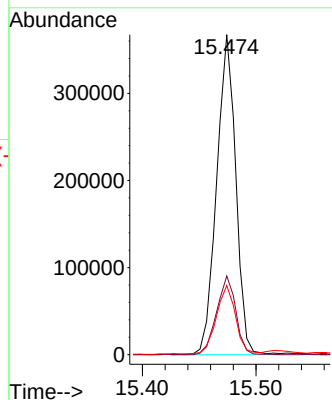
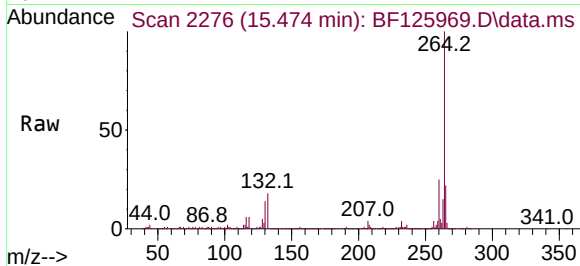




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.474 min Scan# 2276  
Delta R.T. -0.023 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

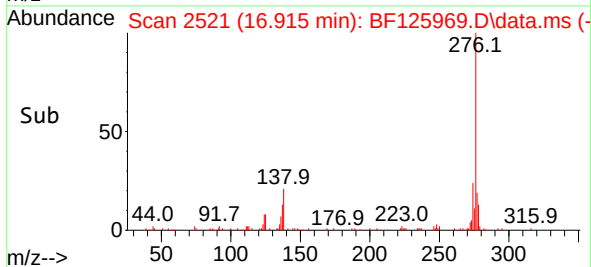
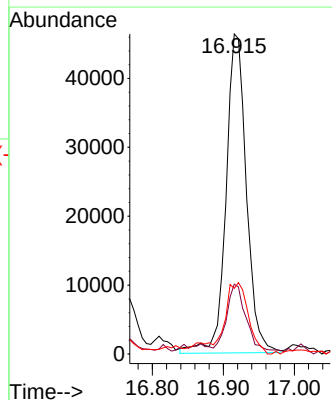
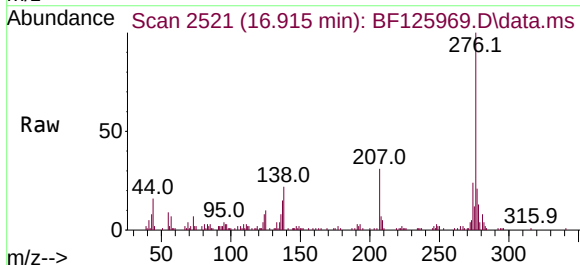
Instrument :  
BNA\_F  
ClientSampleId :  
ETGI-282

Tgt Ion:264 Resp: 429948  
Ion Ratio Lower Upper  
264 100  
260 24.6 19.6 29.4  
265 21.6 17.2 25.8

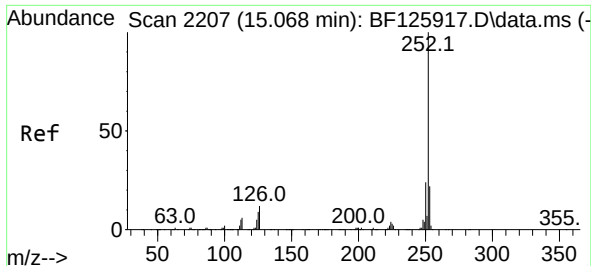


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.984 ng  
RT: 16.915 min Scan# 2521  
Delta R.T. -0.047 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion:276 Resp: 92438  
Ion Ratio Lower Upper  
276 100  
138 20.3 24.1 36.1#  
277 24.7 18.8 28.2



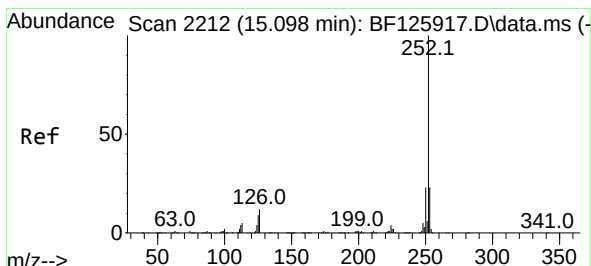
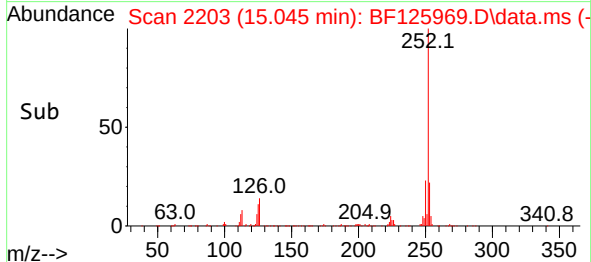
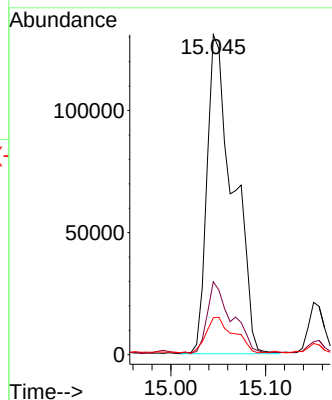
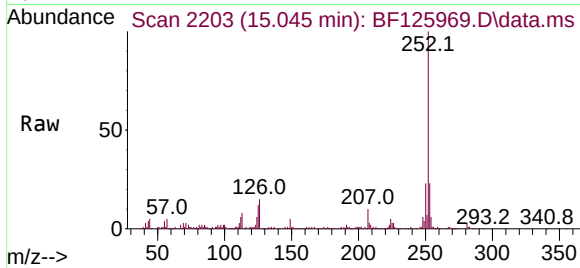




#88  
Benzo(b)fluoranthene  
Concen: 8.836 ng  
RT: 15.045 min Scan# 2203  
Delta R.T. -0.023 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

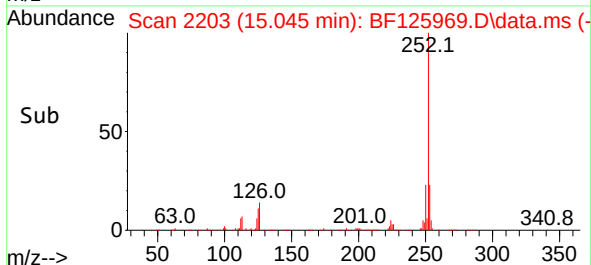
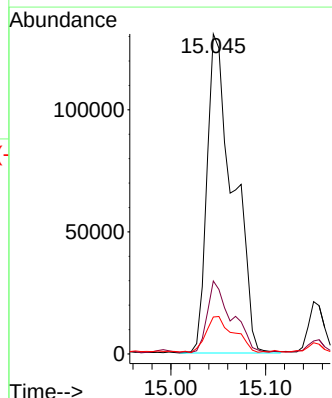
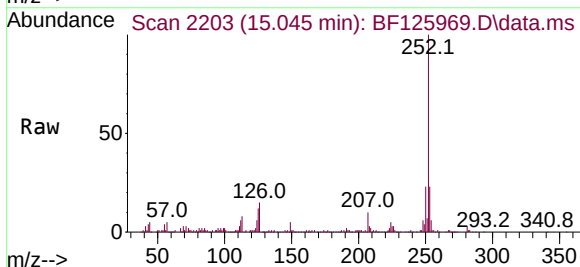
Instrument :  
BNA\_F  
ClientSampleId :  
ETGI-282

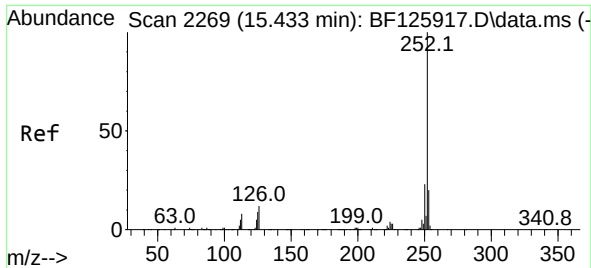
Tgt Ion:252 Resp: 250759  
Ion Ratio Lower Upper  
252 100  
253 22.8 16.8 25.2  
125 11.6 9.8 14.8



#89  
Benzo(k)fluoranthene  
Concen: 9.199 ng  
RT: 15.045 min Scan# 2203  
Delta R.T. -0.053 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion:252 Resp: 250759  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.8 26.8  
125 11.6 7.2 10.8#

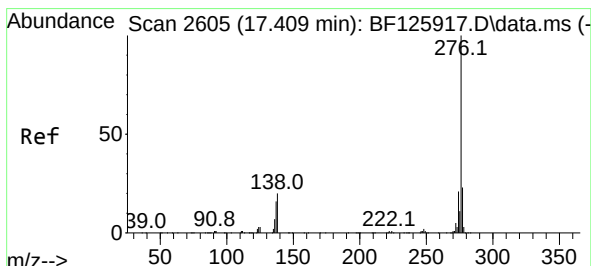
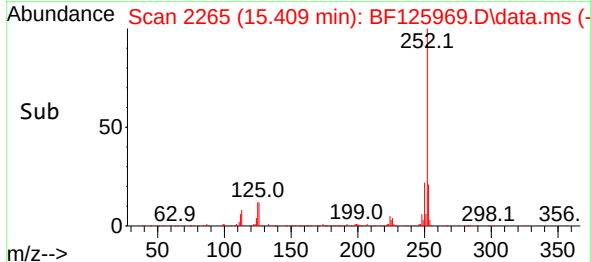
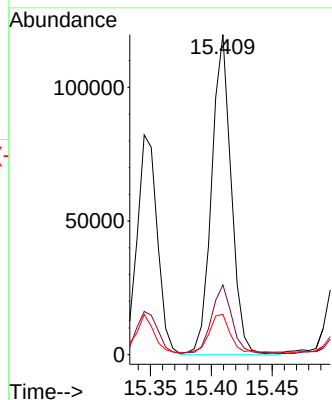
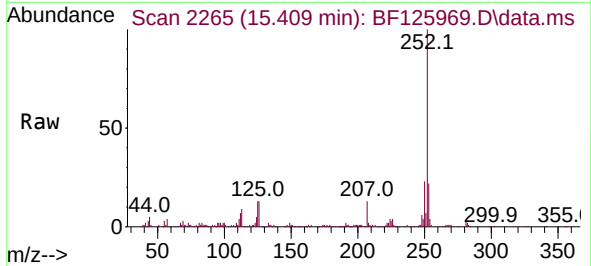




#90  
Benzo(a)pyrene  
Concen: 5.859 ng  
RT: 15.409 min Scan# 2265  
Delta R.T. -0.023 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Instrument :  
BNA\_F  
ClientSampleId :  
ETGI-282

Tgt Ion:252 Resp: 134222  
Ion Ratio Lower Upper  
252 100  
253 21.8 18.4 27.6  
125 12.6 9.9 14.9



#92  
Benzo(g,h,i)perylene  
Concen: 3.245 ng  
RT: 17.356 min Scan# 2596  
Delta R.T. -0.053 min  
Lab File: BF125969.D  
Acq: 27 Oct 2021 18:12

Tgt Ion:276 Resp: 85074  
Ion Ratio Lower Upper  
276 100  
277 24.4 22.0 33.0  
138 20.8 22.2 33.4#

