

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040121\  
 Data File : BG048558.D  
 Acq On : 2 Apr 2021 00:31  
 Operator : CG/JU  
 Sample : M1886-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-124035

Quant Time: Apr 02 03:06:06 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG033021.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 01 11:19:59 2021  
 Response via : Initial Calibration

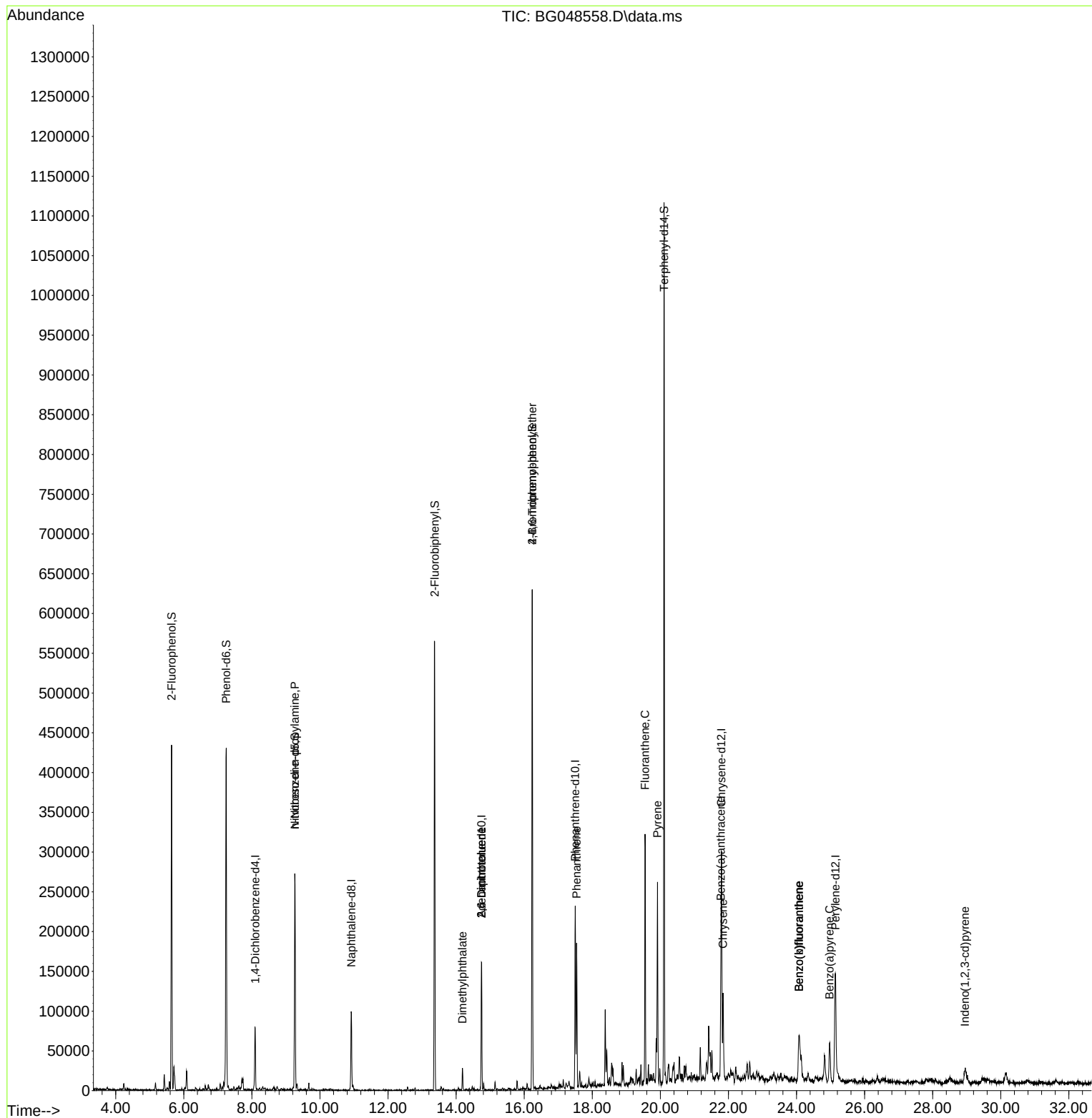
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.099  | 152  | 21710    | 20.00  | ng    | # 0.00   |
| 21) Naphthalene-d8            | 10.919 | 136  | 87428    | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10          | 14.750 | 164  | 57155    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.500 | 188  | 142873   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.795 | 240  | 148451   | 20.00  | ng    | #-0.01   |
| 86) Perylene-d12              | 25.144 | 264  | 153556   | 20.00  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.643  | 112  | 176074   | 143.19 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.247  | 99   | 222203   | 124.60 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.262  | 82   | 159861   | 88.53  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 16.236 | 330  | 106552   | 141.82 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 13.369 | 172  | 287991   | 74.89  | ng    | -0.01    |
| 79) Terphenyl-d14             | 20.108 | 244  | 484928   | 59.74  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.262  | 70   | 24275    | 19.75  | ng    | # 70     |
| 50) Dimethylphthalate         | 14.186 | 163  | 16493    | 3.89   | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 14.750 | 165  | 8477     | 8.73   | ng    | # 17     |
| 57) 2,4-Dinitrotoluene        | 14.750 | 165  | 8477     | 6.17   | ng    | # 22     |
| 67) 4-Bromophenyl-phenylether | 16.236 | 248  | 8035     | 5.07   | ng    | # 1      |
| 71) Phenanthrene              | 17.541 | 178  | 109199   | 14.72  | ng    | 97       |
| 75) Fluoranthene              | 19.550 | 202  | 192654   | 20.95  | ng    | 99       |
| 78) Pyrene                    | 19.914 | 202  | 164022   | 16.07  | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.777 | 228  | 77367    | 7.80   | ng    | 98       |
| 83) Chrysene                  | 21.842 | 228  | 78195    | 8.26   | ng    | 95       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.951 | 276  | 32949    | 3.06   | ng    | # 95     |
| 88) Benzo(b)fluoranthene      | 24.074 | 252  | 85391    | 8.56   | ng    | # 97     |
| 89) Benzo(k)fluoranthene      | 24.074 | 252  | 85391    | 8.91   | ng    | 97       |
| 90) Benzo(a)pyrene            | 24.967 | 252  | 54865    | 5.97   | ng    | 99       |
| -----                         |        |      |          |        |       |          |

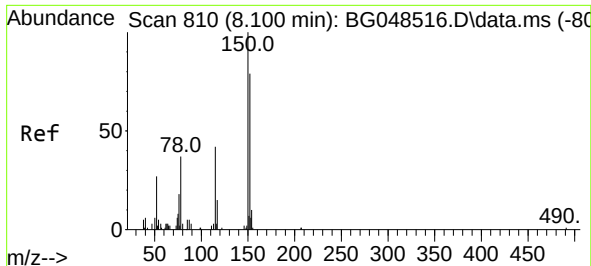
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040121\  
Data File : BG048558.D  
Acq On : 2 Apr 2021 00:31  
Operator : CG/JU  
Sample : M1886-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
RO-124035

Quant Time: Apr 02 03:06:06 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG033021.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Apr 01 11:19:59 2021  
Response via : Initial Calibration

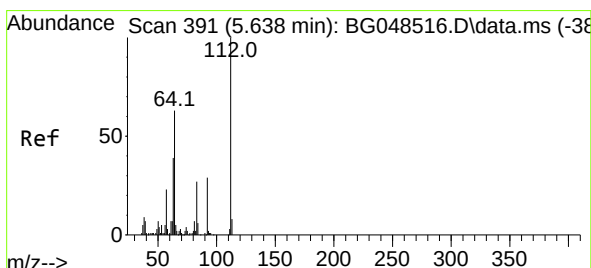
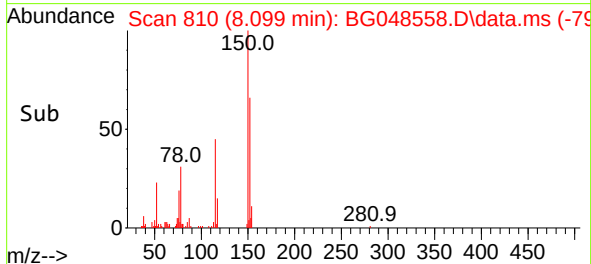
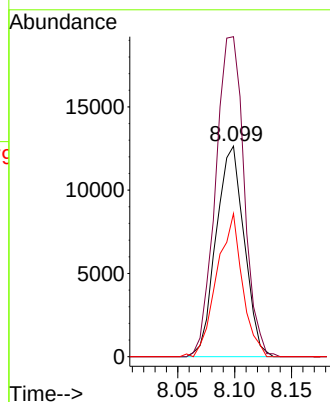
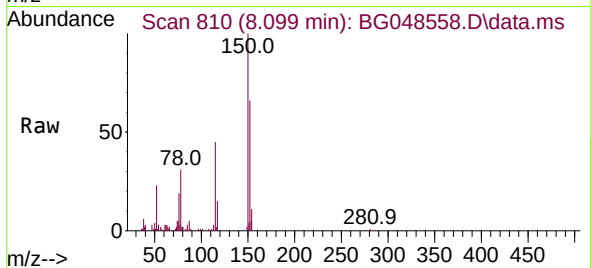




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.099 min Scan# 810  
Delta R.T. -0.005 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

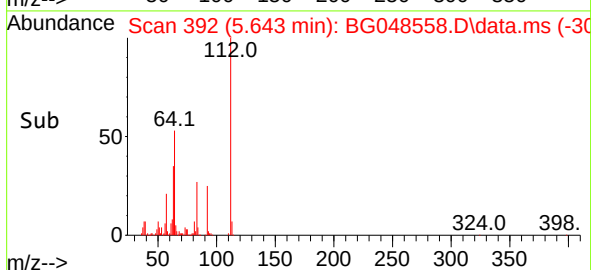
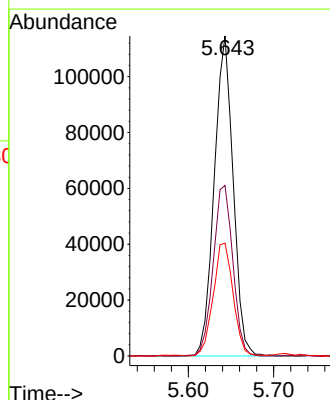
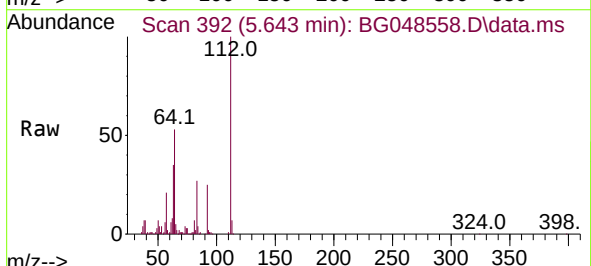
Instrument :  
BNA\_G  
ClientSampleId :  
RO-124035

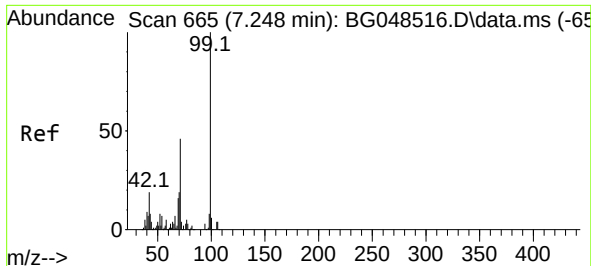
Tgt Ion:152 Resp: 21710  
Ion Ratio Lower Upper  
152 100  
150 152.0 101.3 151.9#  
115 67.9 42.3 63.5#



#5  
2-Fluorophenol  
Concen: 143.19 ng  
RT: 5.643 min Scan# 392  
Delta R.T. 0.001 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

Tgt Ion:112 Resp: 176074  
Ion Ratio Lower Upper  
112 100  
64 53.3 50.4 75.6  
63 35.3 31.4 47.2

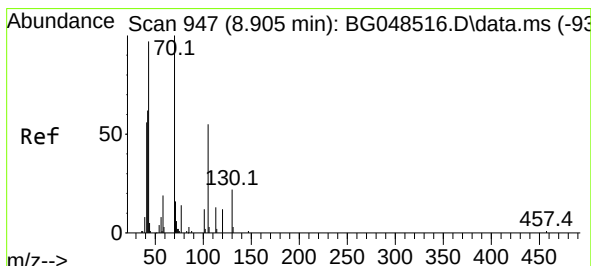
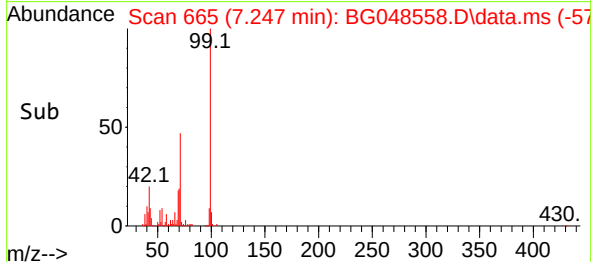
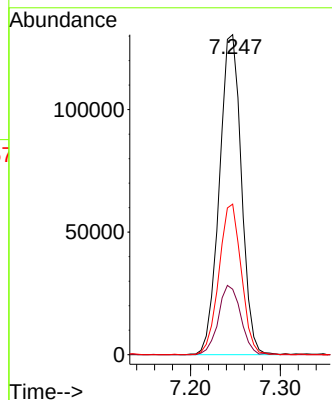
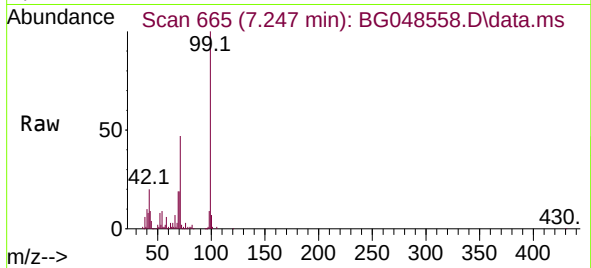




#7  
Phenol-d6  
Concen: 124.60 ng  
RT: 7.247 min Scan# 665  
Delta R.T. -0.005 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

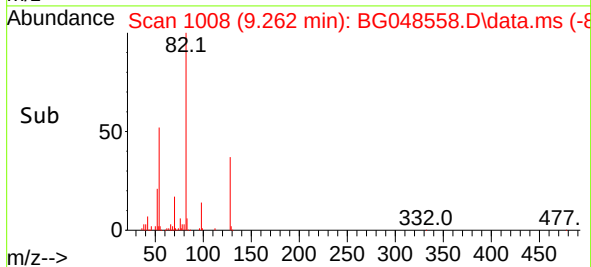
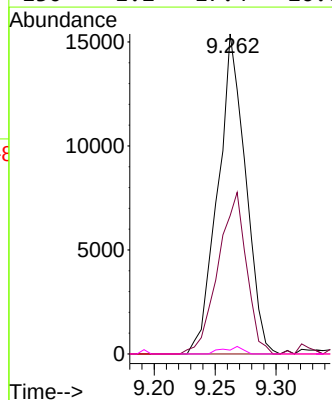
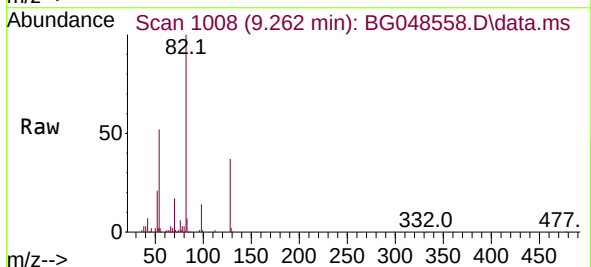
Instrument :  
BNA\_G  
ClientSampleId :  
RO-124035

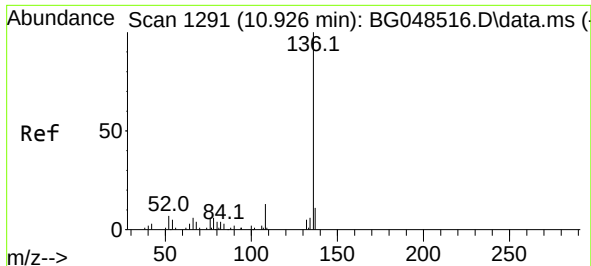
Tgt Ion: 99 Resp: 222203  
Ion Ratio Lower Upper  
99 100  
42 20.5 15.5 23.3  
71 47.1 36.6 54.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 19.75 ng  
RT: 9.262 min Scan# 1008  
Delta R.T. 0.354 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

Tgt Ion: 70 Resp: 24275  
Ion Ratio Lower Upper  
70 100  
42 43.2 50.8 76.2#  
101 0.0 9.7 14.5#  
130 1.2 17.4 26.0#

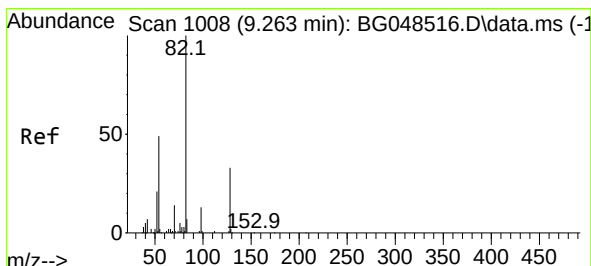
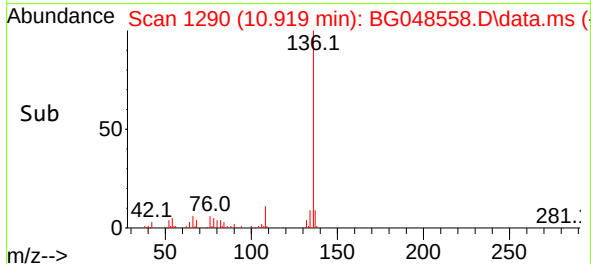
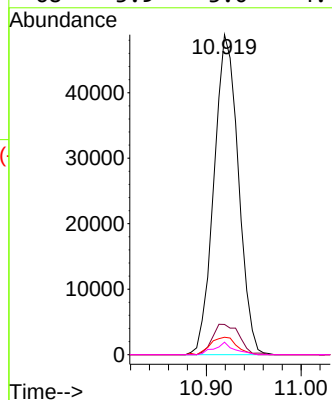
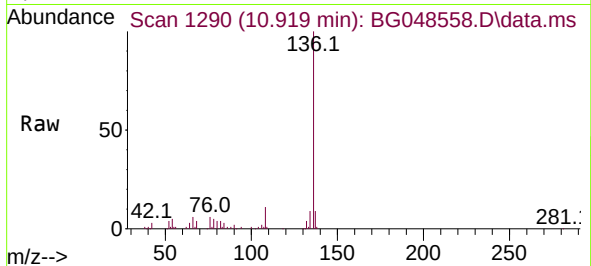




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.919 min Scan# 1290  
Delta R.T. -0.011 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

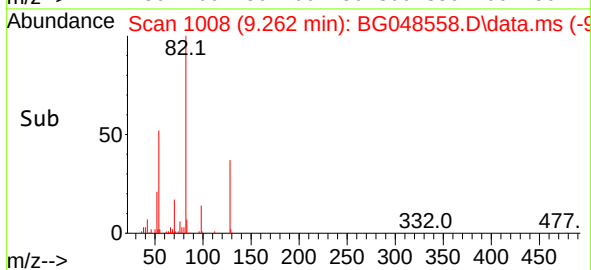
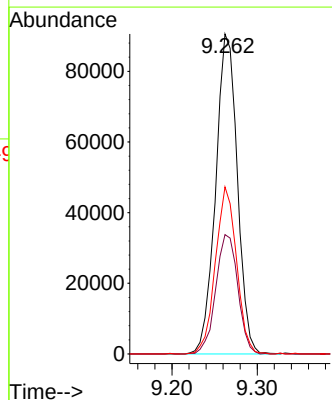
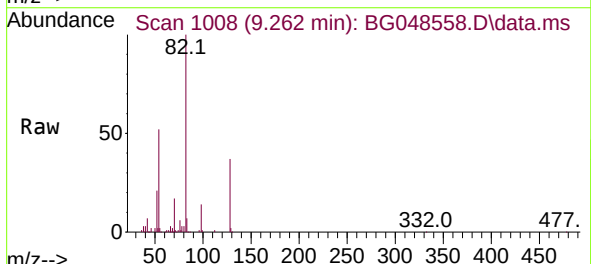
Instrument :  
BNA\_G  
ClientSampleId :  
RO-124035

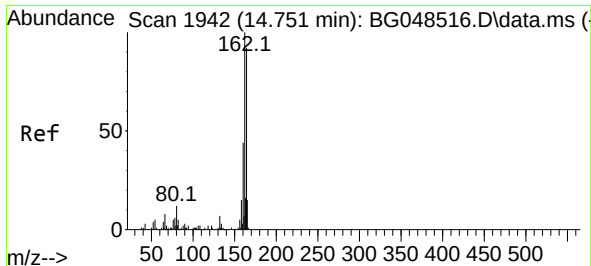
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:136 | Resp: | 87428    |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 9.5   | 8.6 12.8 |
| 54          | 5.4   | 4.2 6.4  |
| 68          | 3.9   | 3.0 4.4  |



#23  
Nitrobenzene-d5  
Concen: 88.53 ng  
RT: 9.262 min Scan# 1008  
Delta R.T. -0.011 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 159861    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 37.3  | 26.2 39.4 |
| 54          | 52.2  | 38.9 58.3 |

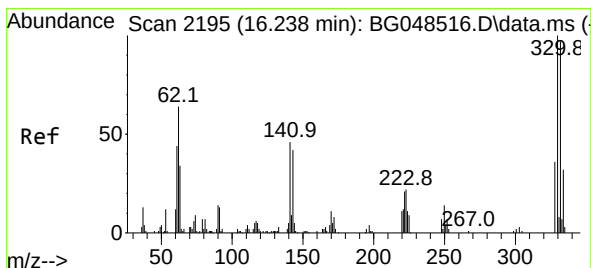
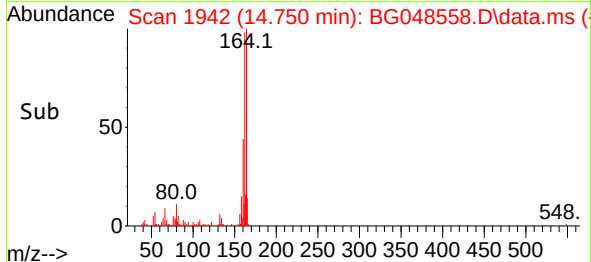
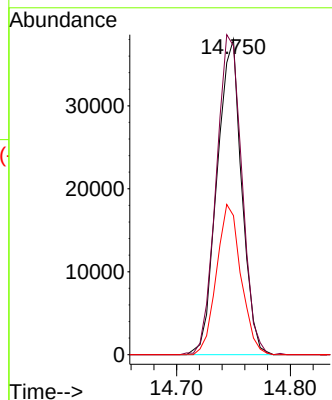
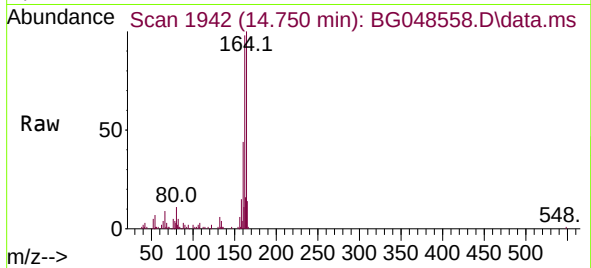




#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.750 min Scan# 1942  
Delta R.T. -0.005 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

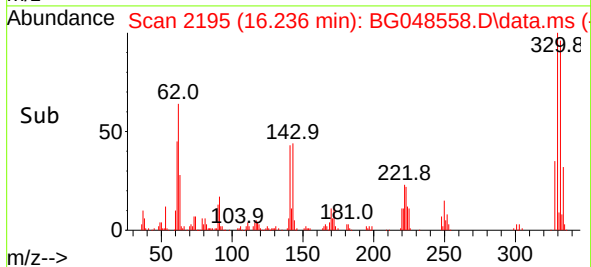
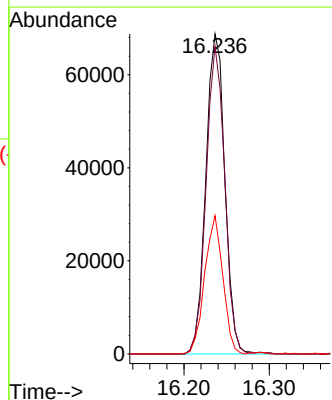
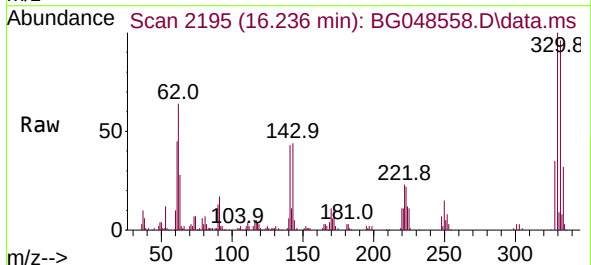
Instrument :  
BNA\_G  
ClientSampleId :  
RO-124035

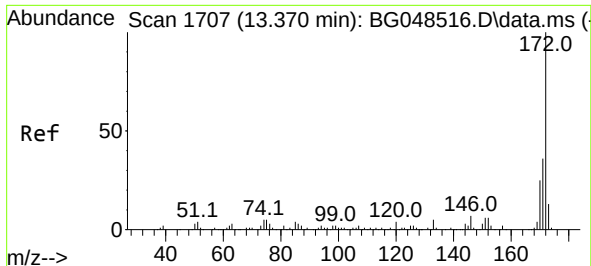
Tgt Ion:164 Resp: 57155  
Ion Ratio Lower Upper  
164 100  
162 97.9 87.0 130.6  
160 44.1 38.4 57.6



#42  
2,4,6-Tribromophenol  
Concen: 141.82 ng  
RT: 16.236 min Scan# 2195  
Delta R.T. -0.011 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

Tgt Ion:330 Resp: 106552  
Ion Ratio Lower Upper  
330 100  
332 94.1 77.6 116.4  
141 41.4 34.6 52.0

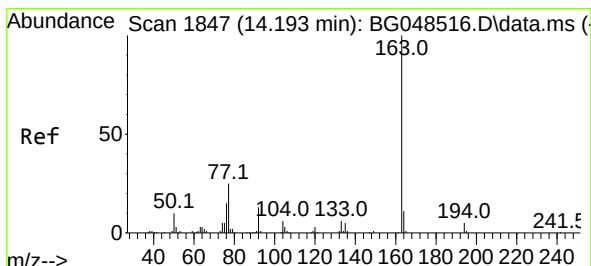
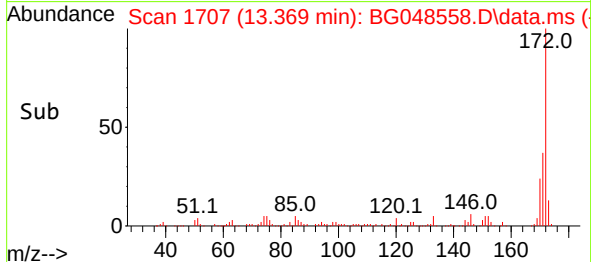
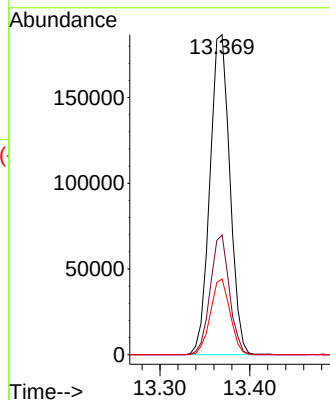
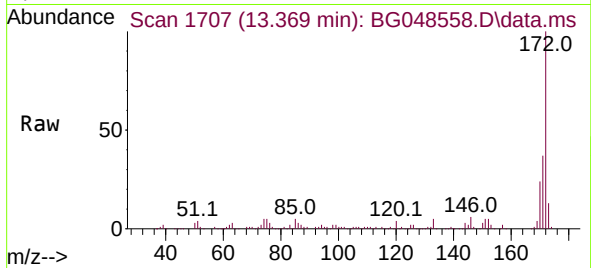




#45  
2-Fluorobiphenyl  
Concen: 74.89 ng  
RT: 13.369 min Scan# 1707  
Delta R.T. -0.011 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

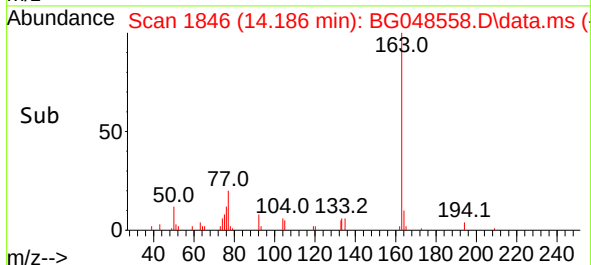
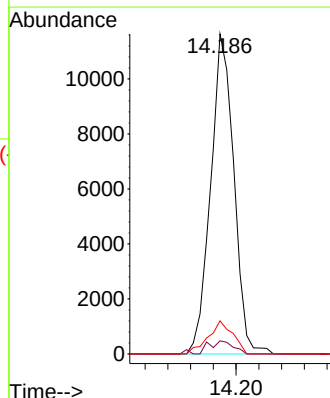
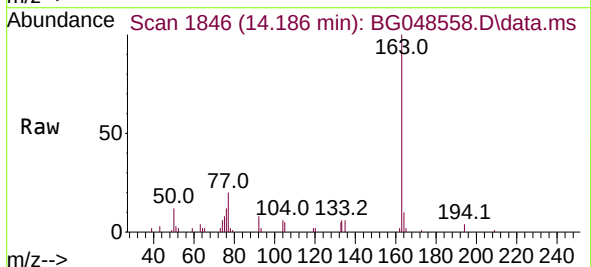
Instrument :  
BNA\_G  
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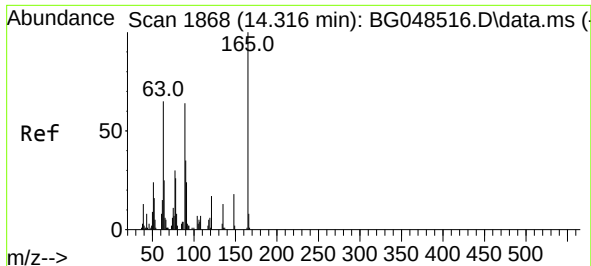
Tgt Ion:172 Resp: 287991  
Ion Ratio Lower Upper  
172 100  
171 37.4 28.5 42.7  
170 23.6 19.8 29.6



#50  
Dimethylphthalate  
Concen: 3.89 ng  
RT: 14.186 min Scan# 1846  
Delta R.T. -0.016 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

Tgt Ion:163 Resp: 16493  
Ion Ratio Lower Upper  
163 100  
194 4.1 4.1 6.1  
164 10.4 8.6 12.8

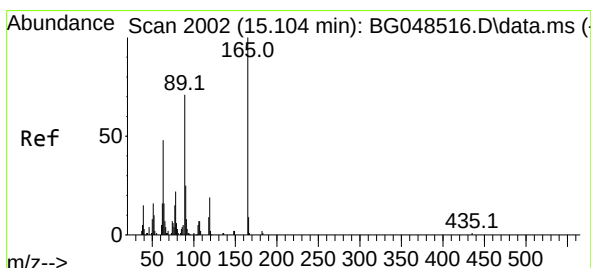
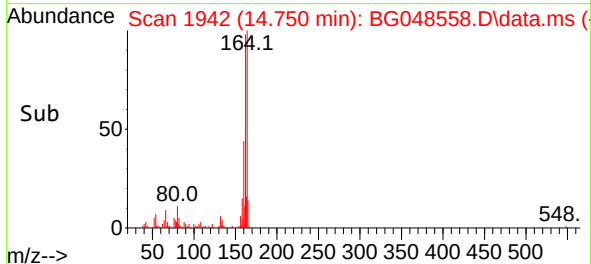
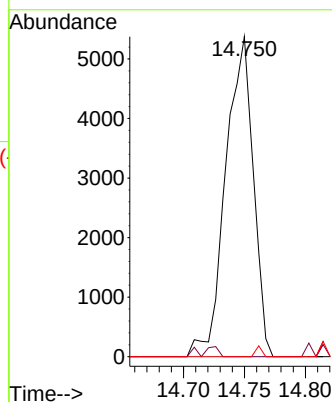
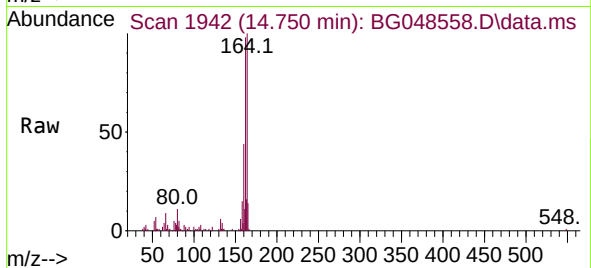




#51  
2,6-Dinitrotoluene  
Concen: 8.73 ng  
RT: 14.750 min Scan# 1942  
Delta R.T. 0.430 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

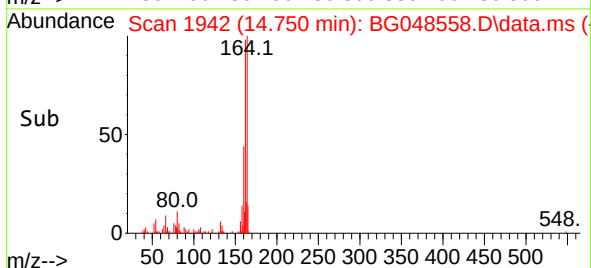
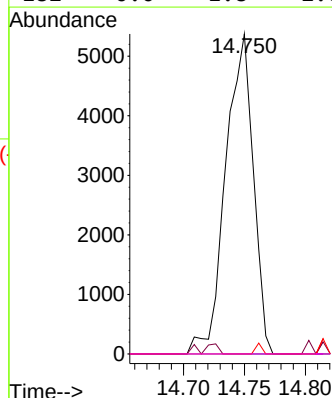
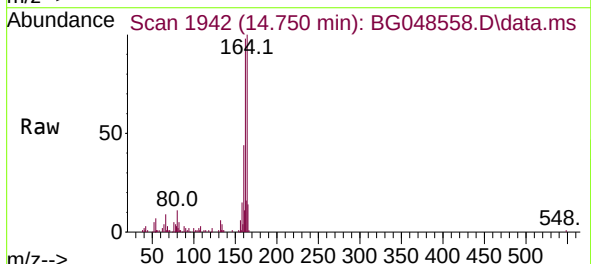
Instrument :  
BNA\_G  
ClientSampleId :  
RO-124035

Tgt Ion:165 Resp: 8477  
Ion Ratio Lower Upper  
165 100  
63 0.0 53.8 80.6#  
89 0.0 50.8 76.2#

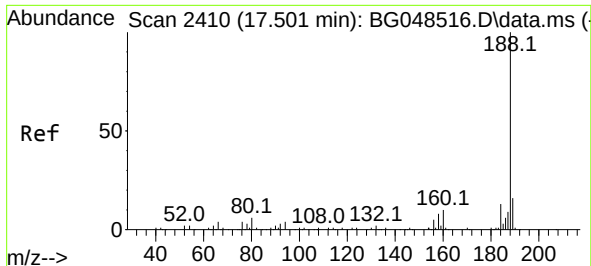


#57  
2,4-Dinitrotoluene  
Concen: 6.17 ng  
RT: 14.750 min Scan# 1942  
Delta R.T. -0.357 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

Tgt Ion:165 Resp: 8477  
Ion Ratio Lower Upper  
165 100  
63 0.0 38.3 57.5#  
89 0.0 56.5 84.7#  
182 0.0 1.8 2.6#



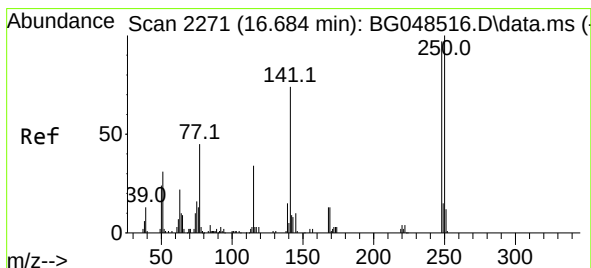
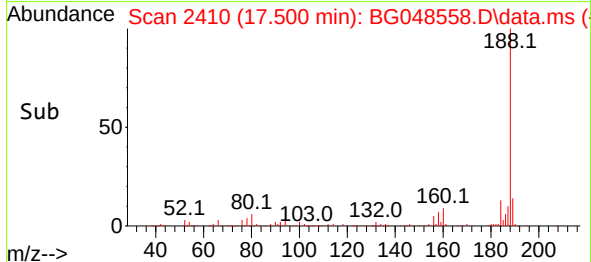
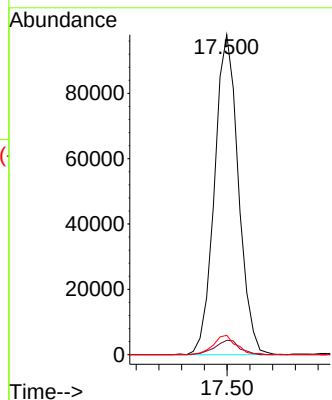
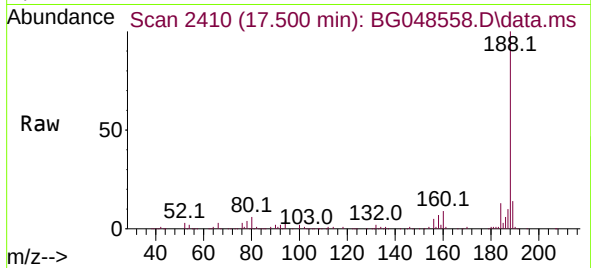




#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.500 min Scan# 2410  
Delta R.T. -0.005 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

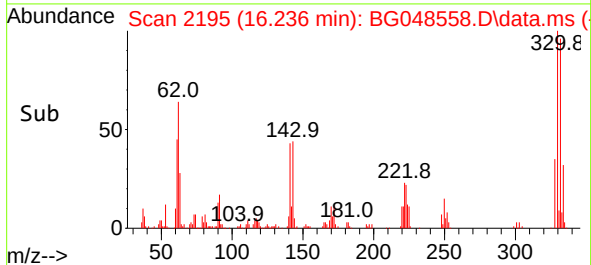
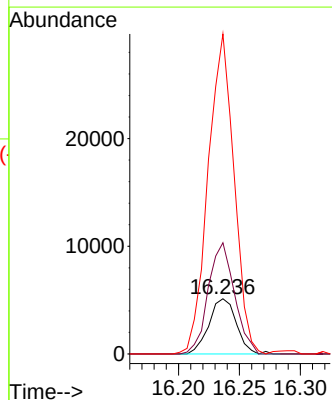
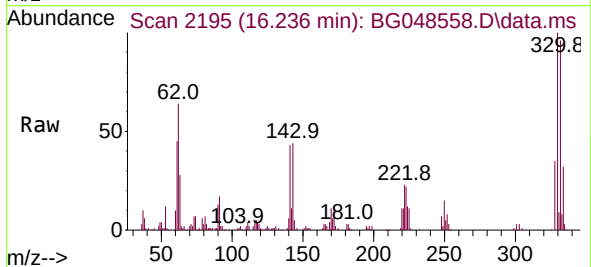
Instrument :  
BNA\_G  
ClientSampleId :  
RO-124035

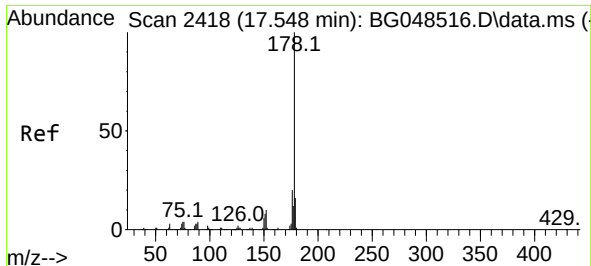
Tgt Ion:188 Resp: 142873  
Ion Ratio Lower Upper  
188 100  
94 4.5 3.0 4.6  
80 6.0 4.5 6.7



#67  
4-Bromophenyl-phenylether  
Concen: 5.07 ng  
RT: 16.236 min Scan# 2195  
Delta R.T. -0.451 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

Tgt Ion:248 Resp: 8035  
Ion Ratio Lower Upper  
248 100  
250 201.5 82.6 124.0#  
141 579.4 61.0 91.6#

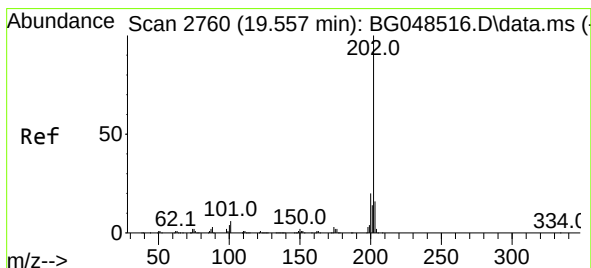
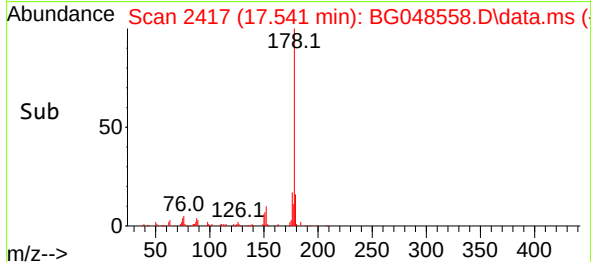
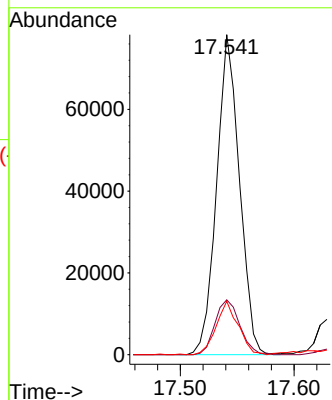
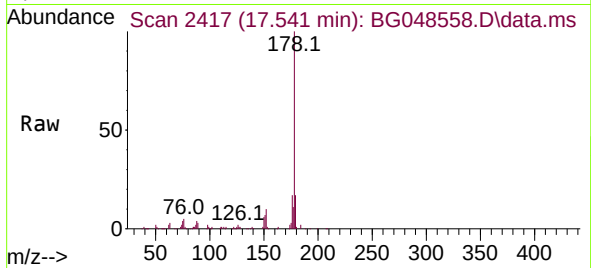




#71  
Phenanthrene  
Concen: 14.72 ng  
RT: 17.541 min Scan# 2417  
Delta R.T. -0.011 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

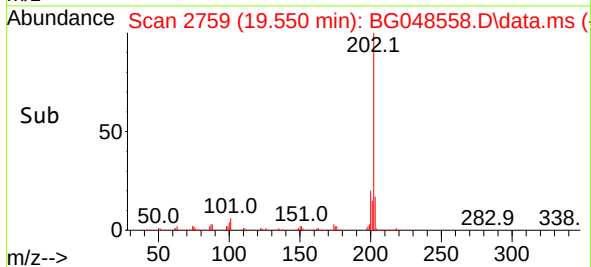
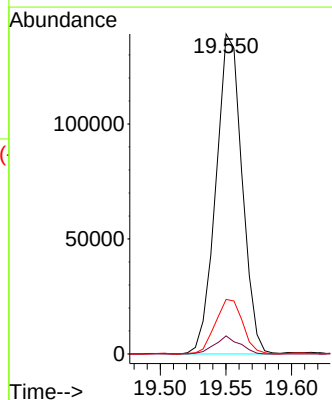
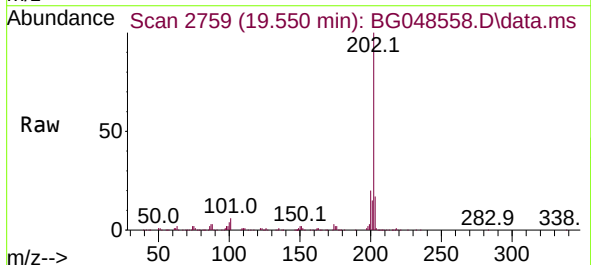
Instrument :  
BNA\_G  
ClientSampleId :  
RO-124035

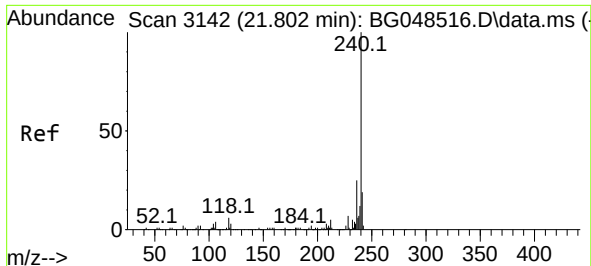
Tgt Ion:178 Resp: 109199  
Ion Ratio Lower Upper  
178 100  
176 17.1 15.6 23.4  
179 16.7 12.9 19.3



#75  
Fluoranthene  
Concen: 20.95 ng  
RT: 19.550 min Scan# 2759  
Delta R.T. -0.011 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

Tgt Ion:202 Resp: 192654  
Ion Ratio Lower Upper  
202 100  
101 5.6 0.0 25.8  
203 17.0 0.0 36.4

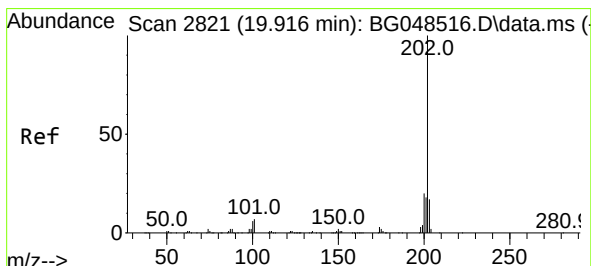
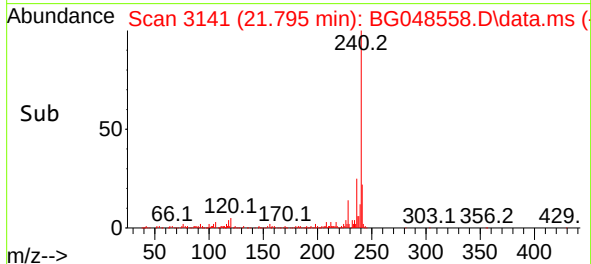
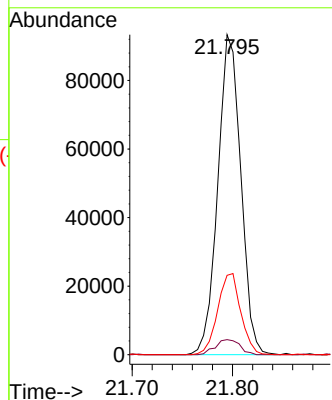
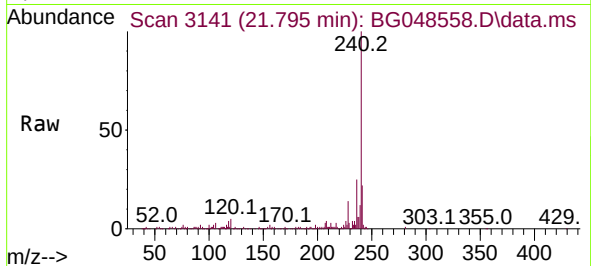




#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.795 min Scan# 3141  
Delta R.T. -0.011 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

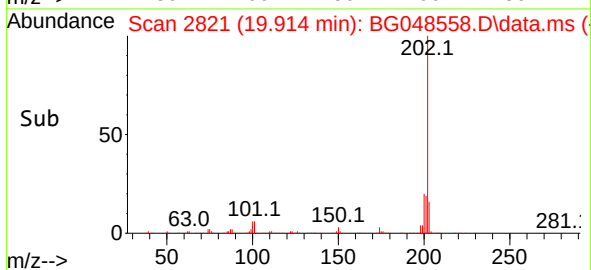
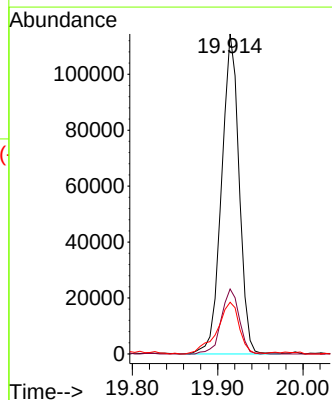
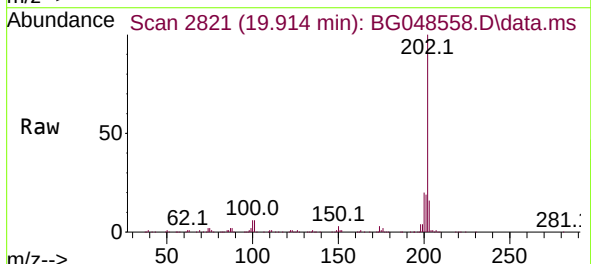
Instrument :  
BNA\_G  
ClientSampleId :  
RO-124035

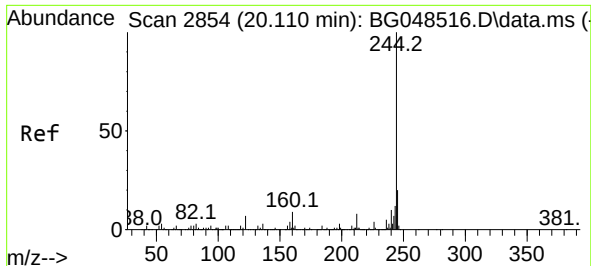
Tgt Ion:240 Resp: 148451  
Ion Ratio Lower Upper  
240 100  
120 4.7 2.6 3.8#  
236 24.8 19.8 29.6



#78  
Pyrene  
Concen: 16.07 ng  
RT: 19.914 min Scan# 2821  
Delta R.T. -0.005 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

Tgt Ion:202 Resp: 164022  
Ion Ratio Lower Upper  
202 100  
200 20.3 16.1 24.1  
203 16.2 13.6 20.4

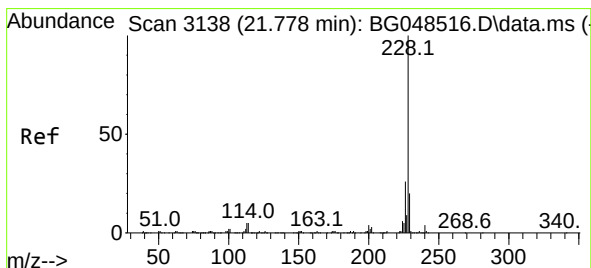
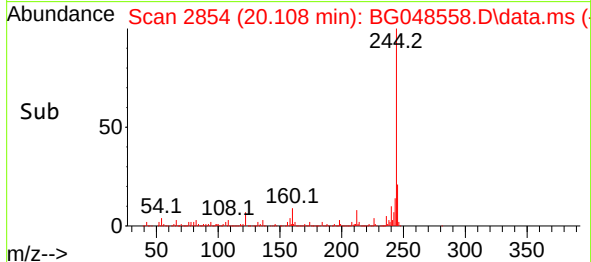
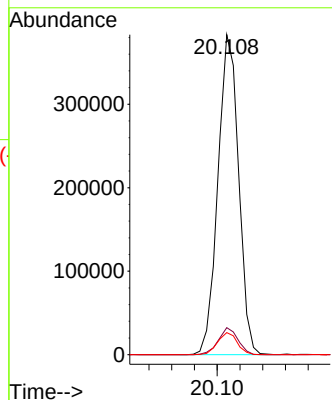
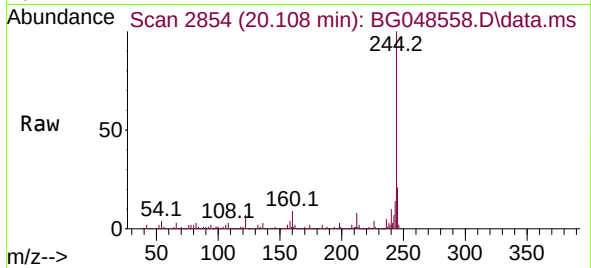




#79  
 Terphenyl-d14  
 Concen: 59.74 ng  
 RT: 20.108 min Scan# 2854  
 Delta R.T. -0.005 min  
 Lab File: BG048558.D  
 Acq: 2 Apr 2021 00:31

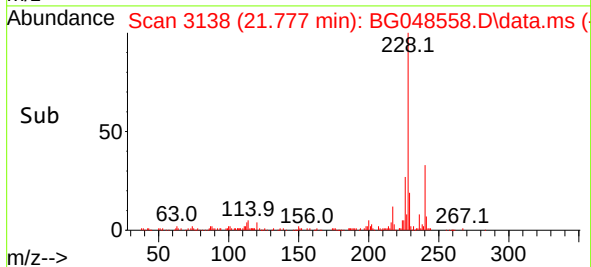
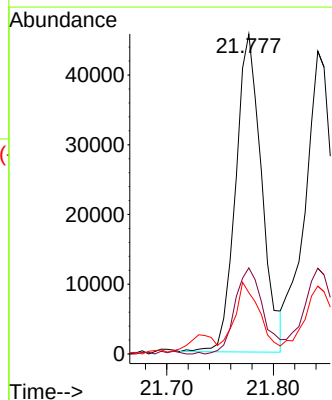
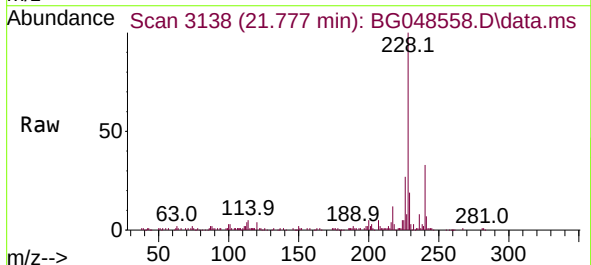
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-124035

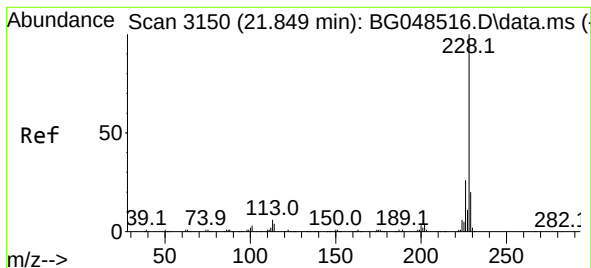
Tgt Ion:244 Resp: 484928  
 Ion Ratio Lower Upper  
 244 100  
 212 8.5 6.0 9.0  
 122 6.9 5.8 8.6



#81  
 Benzo(a)anthracene  
 Concen: 7.80 ng  
 RT: 21.777 min Scan# 3138  
 Delta R.T. -0.005 min  
 Lab File: BG048558.D  
 Acq: 2 Apr 2021 00:31

Tgt Ion:228 Resp: 77367  
 Ion Ratio Lower Upper  
 228 100  
 226 26.9 20.6 30.8  
 229 19.1 15.8 23.8





#83

Chrysene

Concen: 8.26 ng

RT: 21.842 min Scan# 3149

Delta R.T. -0.011 min

Lab File: BG048558.D

Acq: 2 Apr 2021 00:31

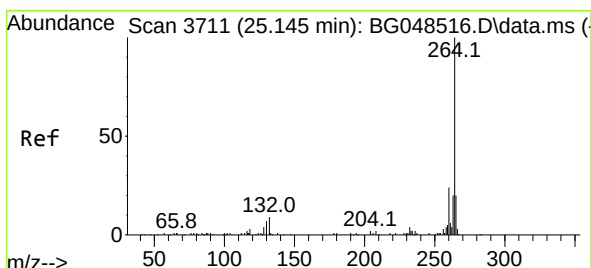
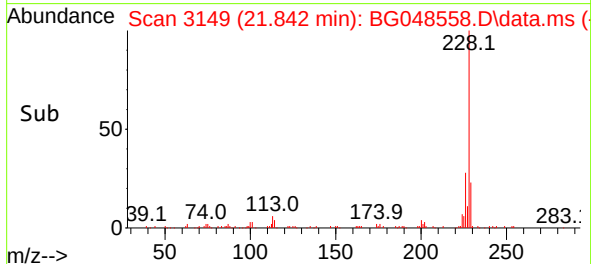
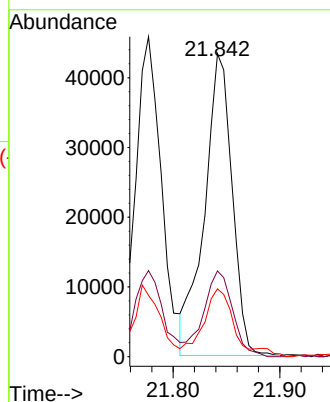
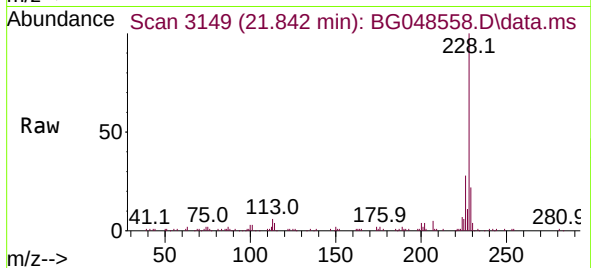
Instrument :

BNA\_G

ClientSampleId :

RO-124035

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:228 | Resp: | 78195     |
| Ion Ratio   | Lower | Upper     |
| 228         | 100   |           |
| 226         | 28.3  | 20.6 31.0 |
| 229         | 22.4  | 16.3 24.5 |



#86

Perylene-d12

Concen: 20.00 ng

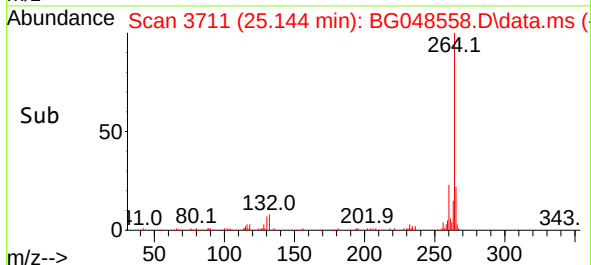
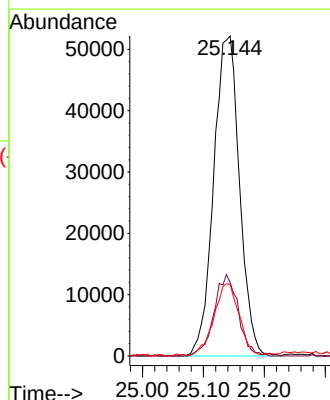
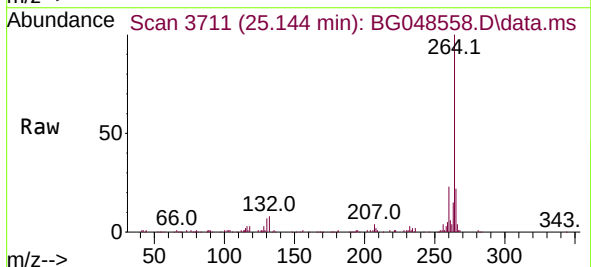
RT: 25.144 min Scan# 3711

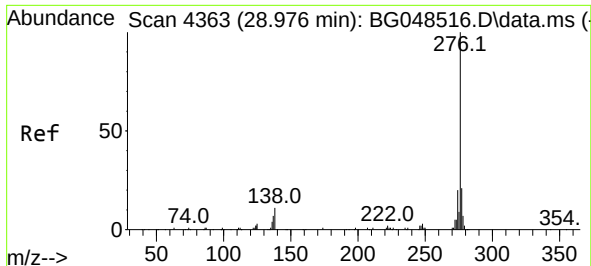
Delta R.T. -0.005 min

Lab File: BG048558.D

Acq: 2 Apr 2021 00:31

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:264 | Resp: | 153556    |
| Ion Ratio   | Lower | Upper     |
| 264         | 100   |           |
| 260         | 23.0  | 19.1 28.7 |
| 265         | 22.4  | 16.1 24.1 |

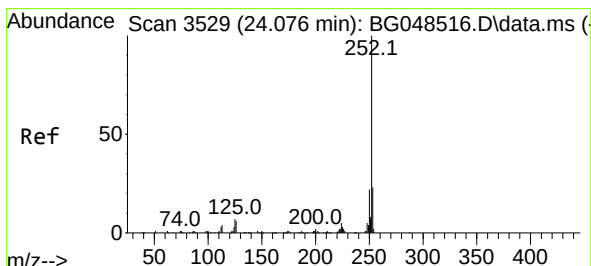
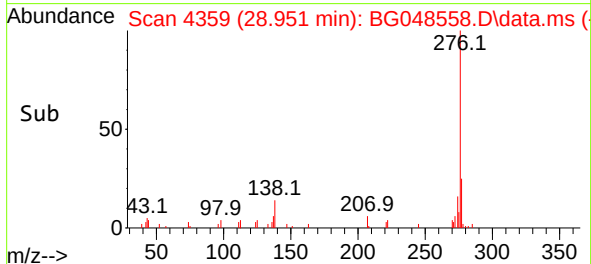
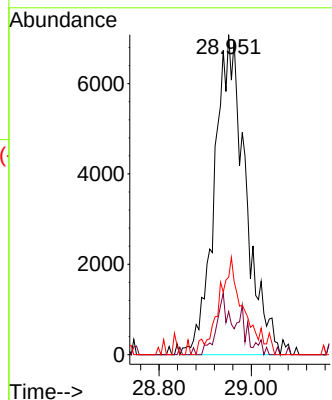
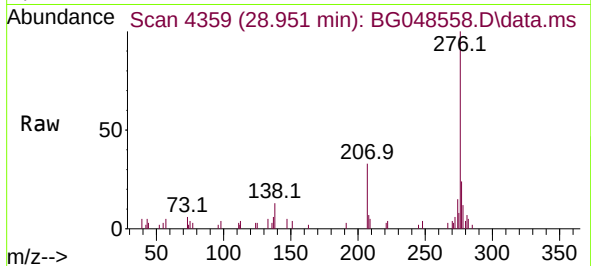




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.06 ng  
RT: 28.951 min Scan# 4359  
Delta R.T. -0.034 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

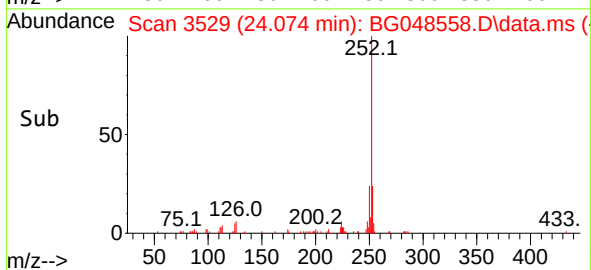
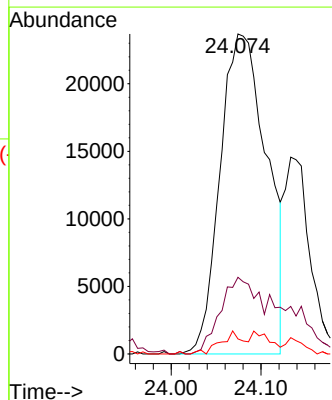
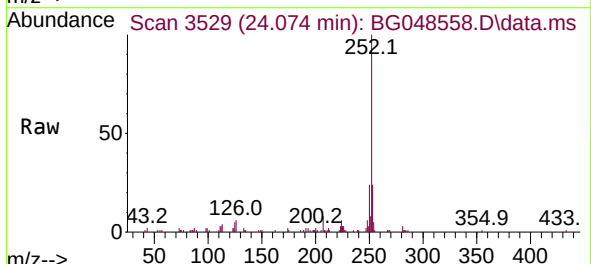
Instrument :  
BNA\_G  
ClientSampleId :  
RO-124035

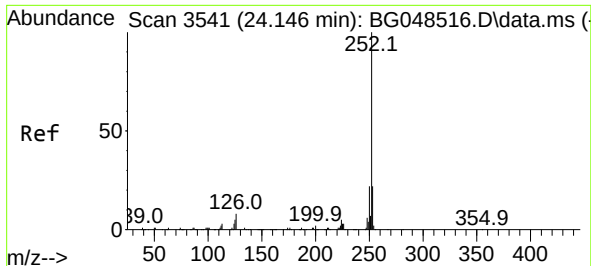
Tgt Ion:276 Resp: 32949  
Ion Ratio Lower Upper  
276 100  
138 8.0 7.8 11.8  
277 19.1 0.0 0.0#



#88  
Benzo(b)fluoranthene  
Concen: 8.56 ng  
RT: 24.074 min Scan# 3529  
Delta R.T. -0.011 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

Tgt Ion:252 Resp: 85391  
Ion Ratio Lower Upper  
252 100  
253 23.9 18.2 27.4  
125 4.7 5.3 7.9#

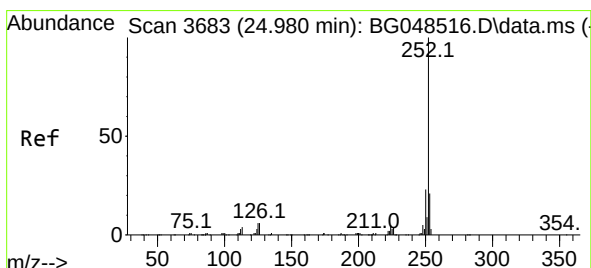
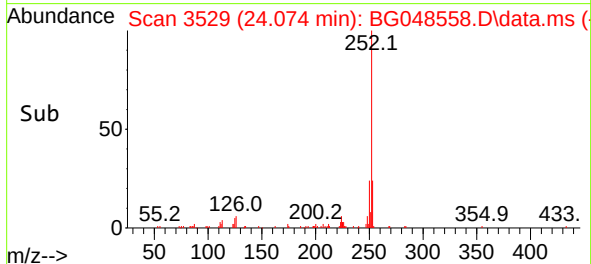
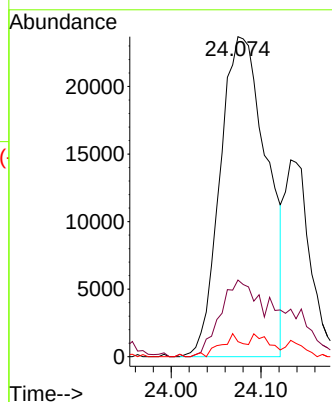
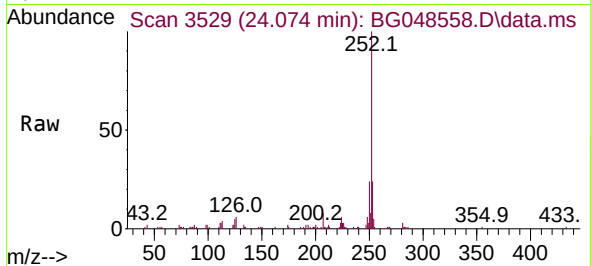




#89  
Benzo(k)fluoranthene  
Concen: 8.91 ng  
RT: 24.074 min Scan# 3529  
Delta R.T. -0.081 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

Instrument :  
BNA\_G  
ClientSampleId :  
RO-124035

Tgt Ion:252 Resp: 85391  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.9 26.9  
125 4.7 3.9 5.9



#90  
Benzo(a)pyrene  
Concen: 5.97 ng  
RT: 24.967 min Scan# 3681  
Delta R.T. -0.022 min  
Lab File: BG048558.D  
Acq: 2 Apr 2021 00:31

Tgt Ion:252 Resp: 54865  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.1 25.7  
125 5.5 4.4 6.6

