

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG072316\  
 Data File : BG023241.D  
 Acq On : 23 Jul 2016 8:13  
 Operator : UM/SJ  
 Sample : H4133-12  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D-28

Quant Time: Jul 25 01:28:07 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG070816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 19 15:46:37 2016  
 Response via : Initial Calibration

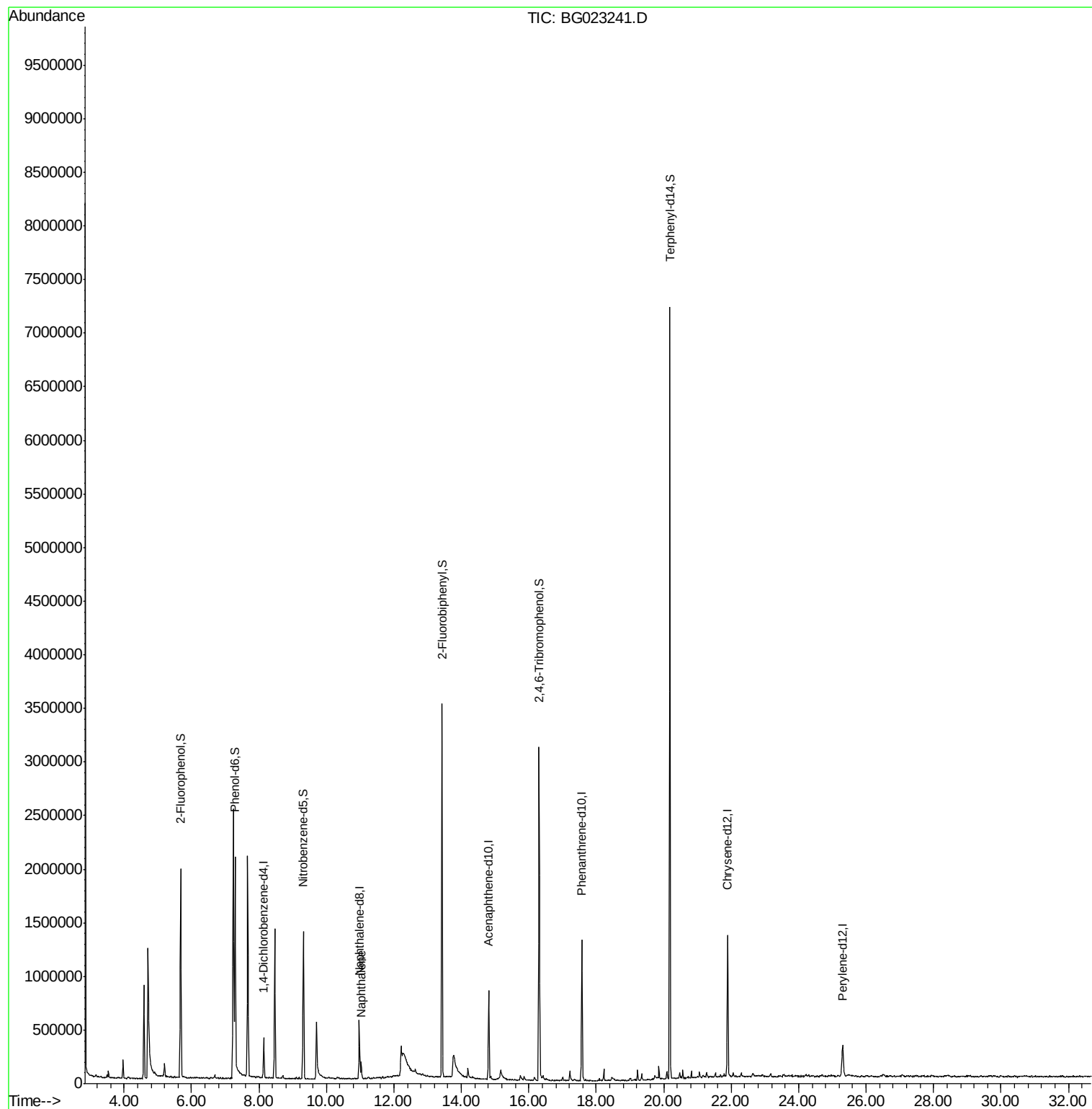
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.14  | 152  | 95390    | 20.00  | ng    | 0.00         |
| 21) Naphthalene-d8          | 10.98 | 136  | 429065   | 20.00  | ng    | 0.00         |
| 38) Acenaphthene-d10        | 14.81 | 164  | 270399   | 20.00  | ng    | 0.01         |
| 63) Phenanthrene-d10        | 17.57 | 188  | 784040   | 20.00  | ng    | 0.02         |
| 75) Chrysene-d12            | 21.89 | 240  | 775198   | 20.00  | ng    | 0.01         |
| 86) Perylene-d12            | 25.29 | 264  | 264520   | 20.00  | ng    | 0.02         |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.68  | 112  | 737625   | 126.47 | ng    | 0.00         |
| 7) Phenol-d6                | 7.29  | 99   | 980196   | 107.30 | ng    | 0.00         |
| 23) Nitrobenzene-d5         | 9.32  | 82   | 885689   | 88.39  | ng    | 0.00         |
| 41) 2,4,6-Tribromophenol    | 16.31 | 330  | 508370   | 104.61 | ng    | 0.00         |
| 44) 2-Fluorobiphenyl        | 13.43 | 172  | 1636309  | 95.32  | ng    | 0.01         |
| 78) Terphenyl-d14           | 20.18 | 244  | 2550811  | 125.57 | ng    | 0.02         |
| Target Compounds            |       |      |          |        |       |              |
| 31) Naphthalene             | 11.03 | 128  | 120135   | 5.50   | ng    | Qvalue<br>96 |

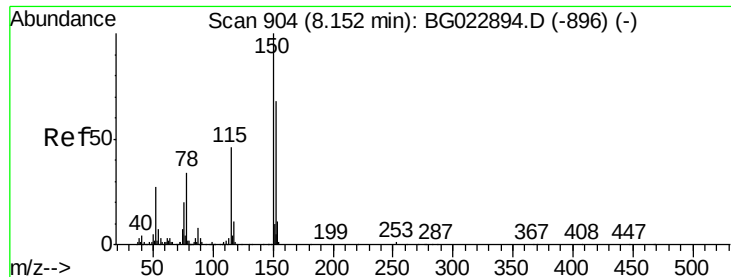
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 20 Sample Multiplier: 1

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BNA\_G  
ClientSampleId :  
D-28

Quant Time: Jul 25 01:28:07 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG070816.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 19 15:46:37 2016  
Response via : Initial Calibration



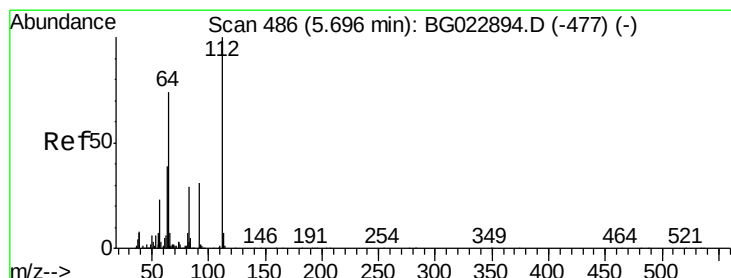
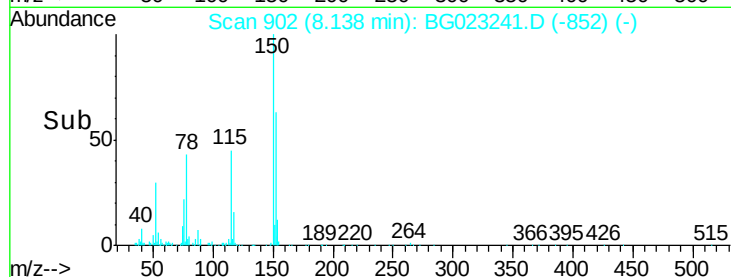
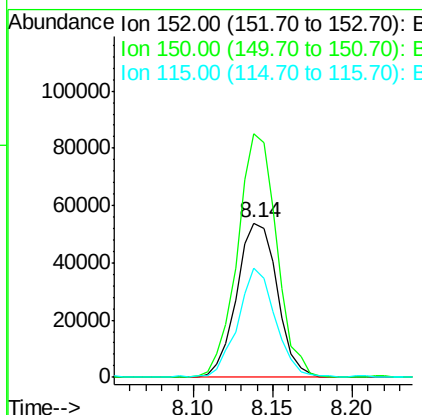
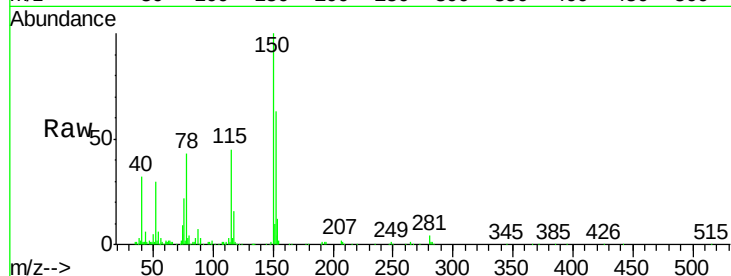


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.14 min Scan# 902  
Delta R.T. -0.01 min  
Lab File: BG023241.D  
Acq: 23 Jul 2016 8:13

Instrument :  
BNA\_G  
ClientSampleId :  
D-28

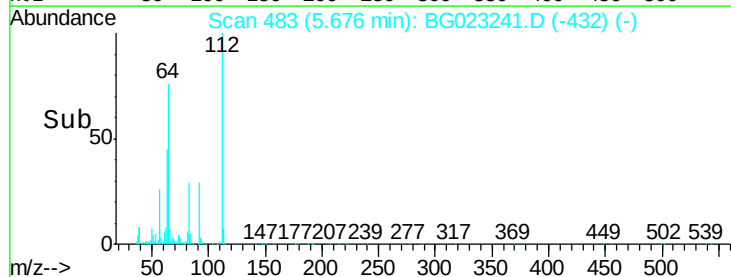
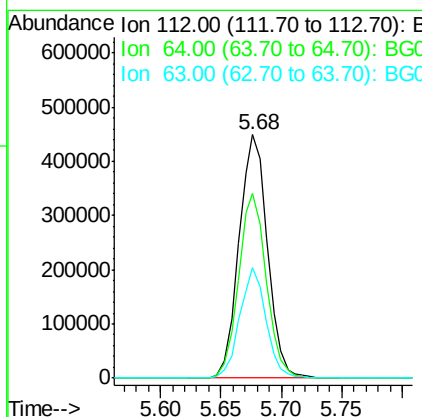
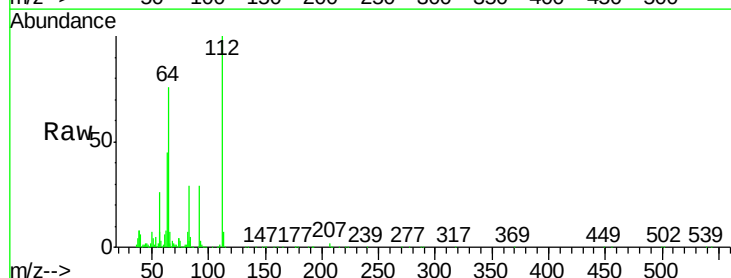
Tgt Ion:152 Resp: 95390  
Ion Ratio Lower Upper  
152 100  
150 157.9 144.7 217.1  
115 70.9 64.0 96.0

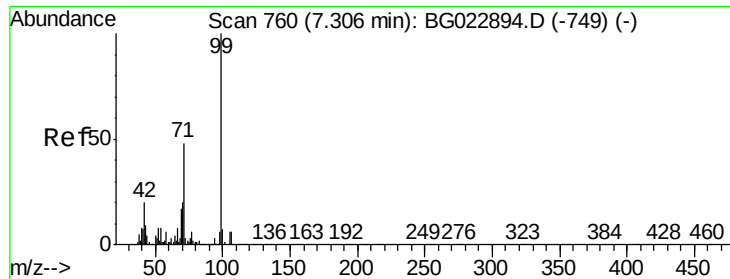


#5

2-Fluorophenol  
Concen: 126.47 ng  
RT: 5.68 min Scan# 483  
Delta R.T. 0.00 min  
Lab File: BG023241.D  
Acq: 23 Jul 2016 8:13

Tgt Ion:112 Resp: 737625  
Ion Ratio Lower Upper  
112 100  
64 75.7 59.0 88.4  
63 45.2 37.8 56.8





#7

Phenol-d6

Concen: 107.30 ng

RT: 7.29 min Scan# 758

Delta R.T. -0.01 min

Lab File: BG023241.D

Acq: 23 Jul 2016 8:13

Instrument :

BNA\_G

ClientSampleId :

D-28

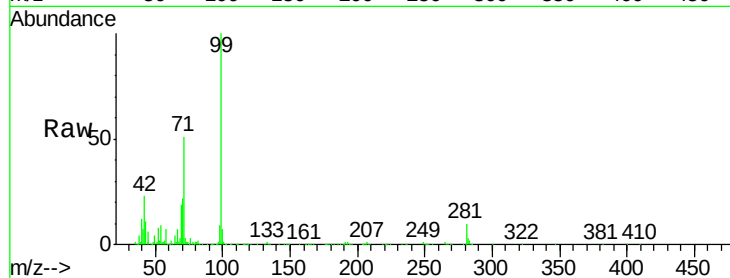
Tgt Ion: 99 Resp: 980196

Ion Ratio Lower Upper

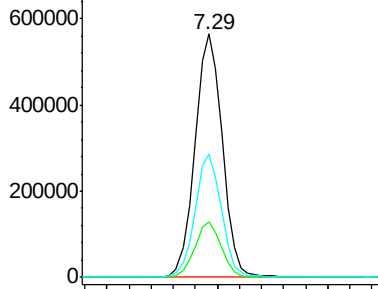
99 100

42 22.8 17.8 26.6

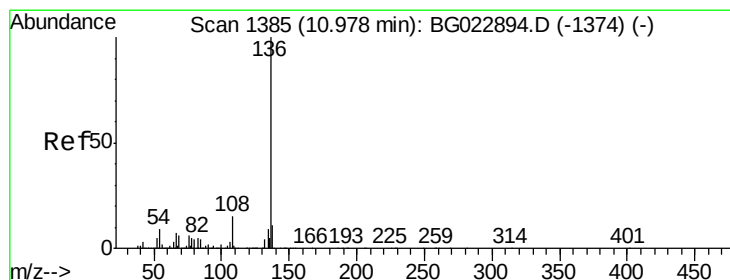
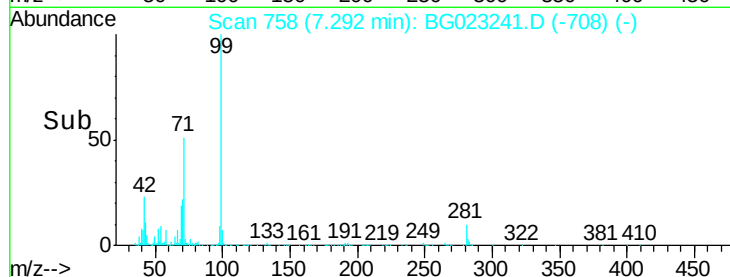
71 50.5 41.5 62.3



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.98 min Scan# 1385

Delta R.T. 0.00 min

Lab File: BG023241.D

Acq: 23 Jul 2016 8:13

Tgt Ion: 136 Resp: 429065

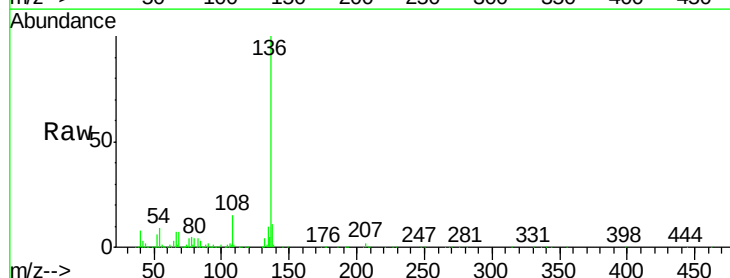
Ion Ratio Lower Upper

136 100

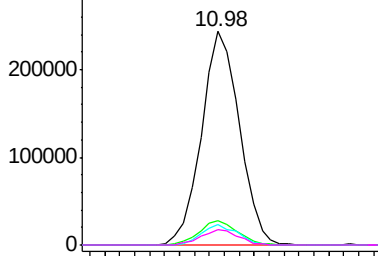
137 11.2 9.6 14.4

54 9.4 7.3 10.9

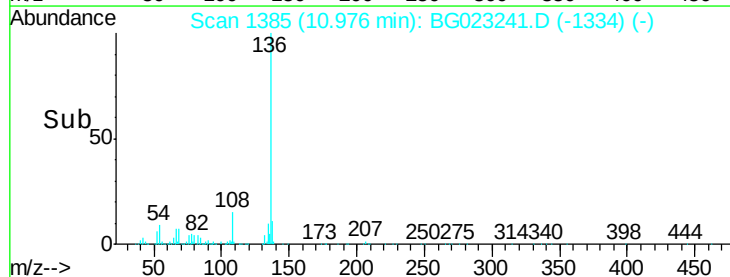
68 7.3 5.3 7.9

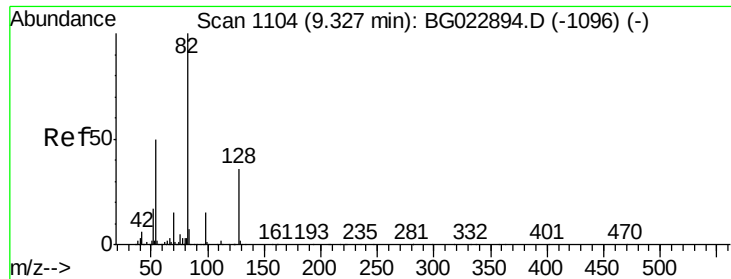


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC



Time-->

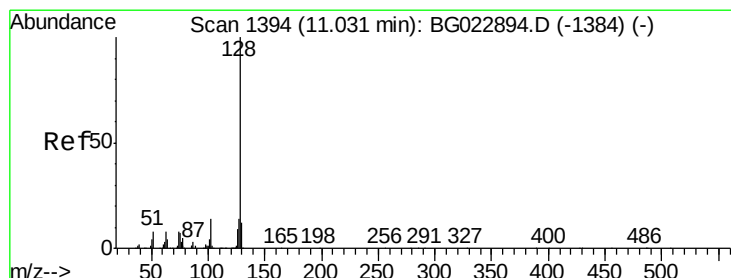
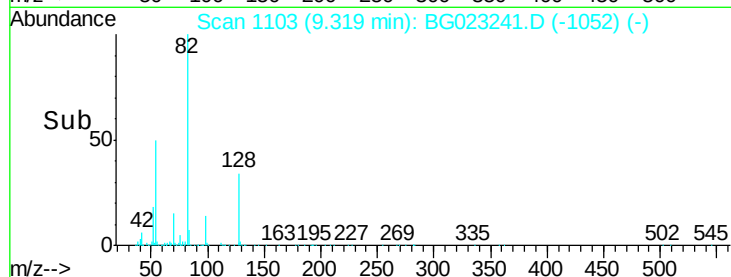
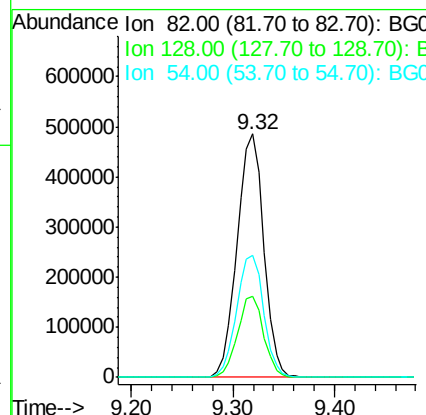
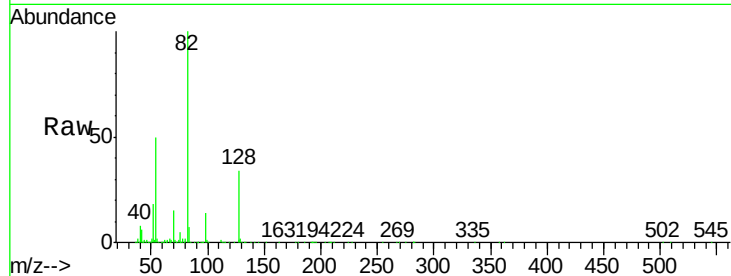




#23  
 Nitrobenzene-d5  
 Concen: 88.39 ng  
 RT: 9.32 min Scan# 1103  
 Delta R.T. 0.00 min  
 Lab File: BG023241.D  
 Acq: 23 Jul 2016 8:13

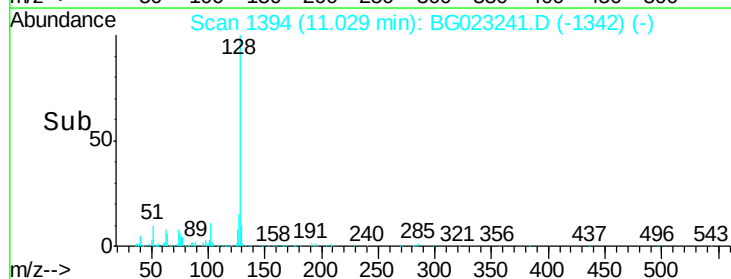
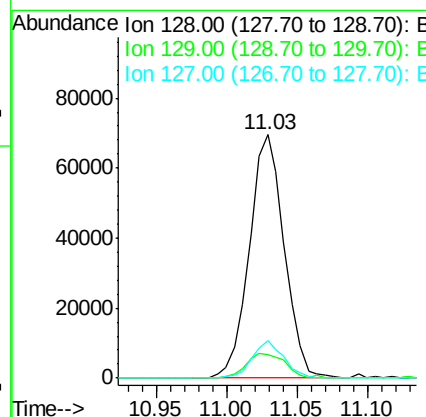
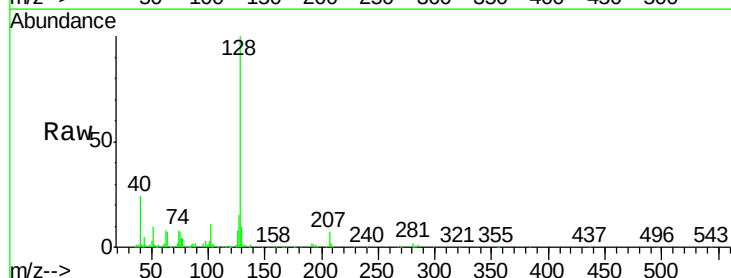
Instrument :  
 BNA\_G  
 ClientSampleId :  
 D-28

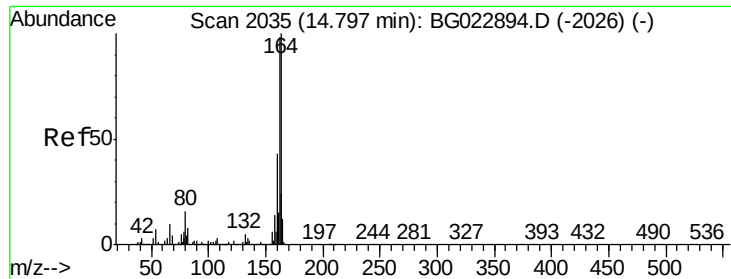
Tgt Ion: 82 Resp: 885689  
 Ion Ratio Lower Upper  
 82 100  
 128 33.5 24.4 36.6  
 54 50.2 41.4 62.0



#31  
 Naphthalene  
 Concen: 5.50 ng  
 RT: 11.03 min Scan# 1394  
 Delta R.T. 0.01 min  
 Lab File: BG023241.D  
 Acq: 23 Jul 2016 8:13

Tgt Ion: 128 Resp: 120135  
 Ion Ratio Lower Upper  
 128 100  
 129 9.6 9.4 14.0  
 127 15.4 11.3 16.9





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.81 min Scan# 2038

Delta R.T. 0.01 min

Lab File: BG023241.D

Acq: 23 Jul 2016 8:13

Instrument :

BNA\_G

ClientSampleId :

D-28

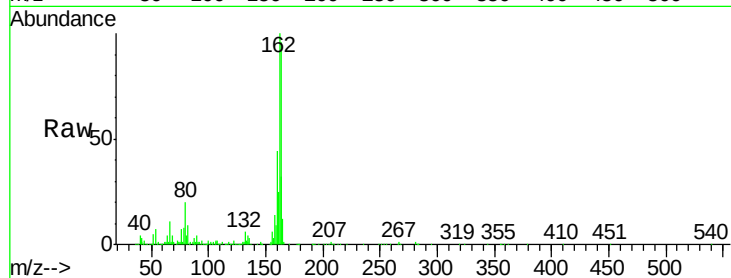
Tgt Ion:164 Resp: 270399

Ion Ratio Lower Upper

164 100

162 104.2 87.7 131.5

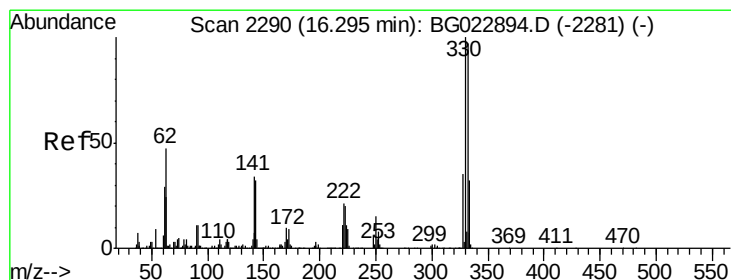
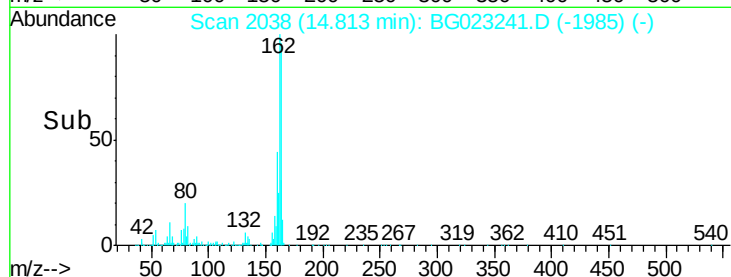
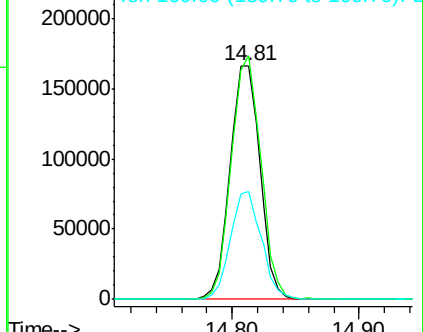
160 46.0 37.2 55.8



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 104.61 ng

RT: 16.31 min Scan# 2292

Delta R.T. 0.01 min

Lab File: BG023241.D

Acq: 23 Jul 2016 8:13

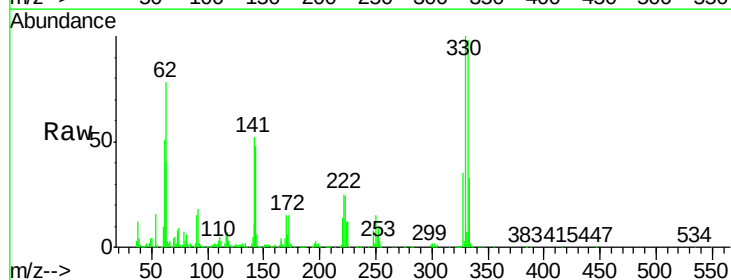
Tgt Ion:330 Resp: 508370

Ion Ratio Lower Upper

330 100

332 94.9 77.4 116.2

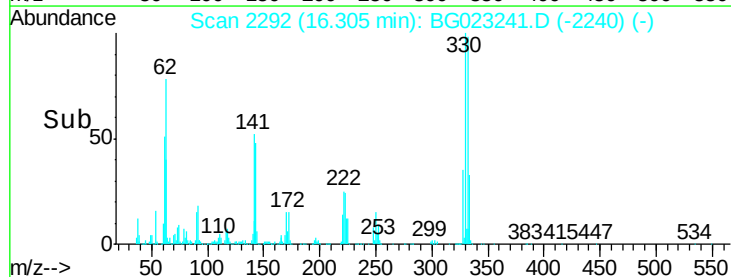
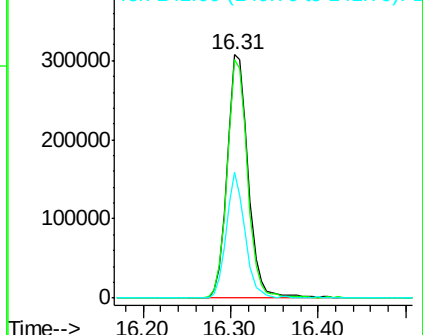
141 46.3 31.7 47.5

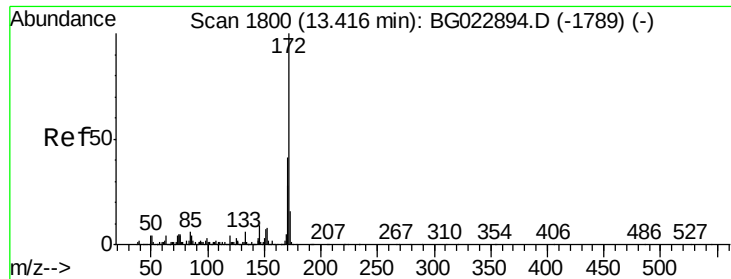


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

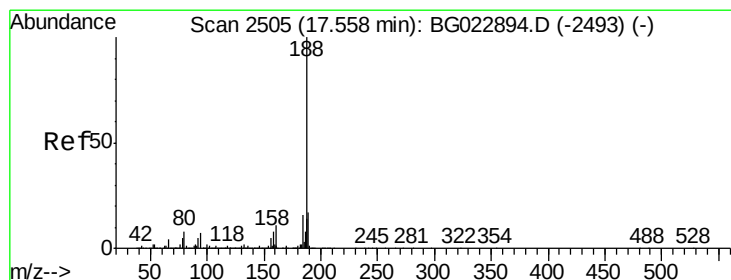
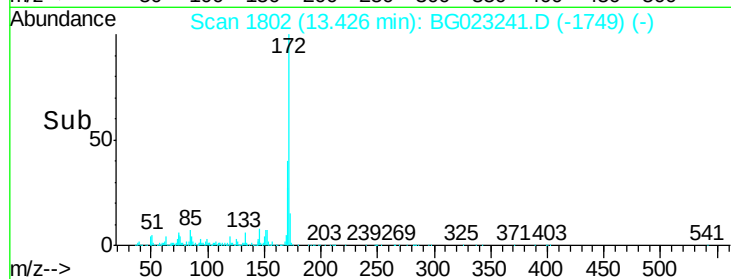
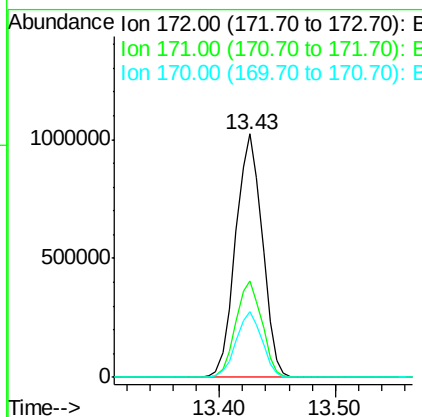
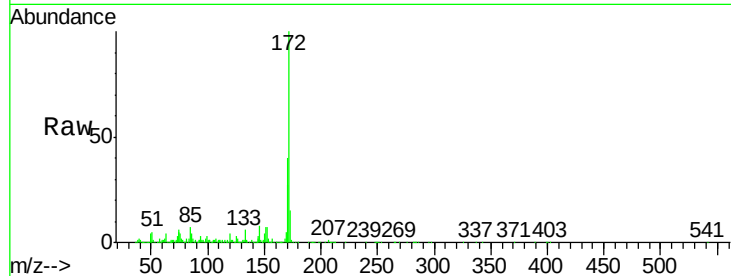




#44  
2-Fluorobiphenyl  
Concen: 95.32 ng  
RT: 13.43 min Scan# 1802  
Delta R.T. 0.01 min  
Lab File: BG023241.D  
Acq: 23 Jul 2016 8:13

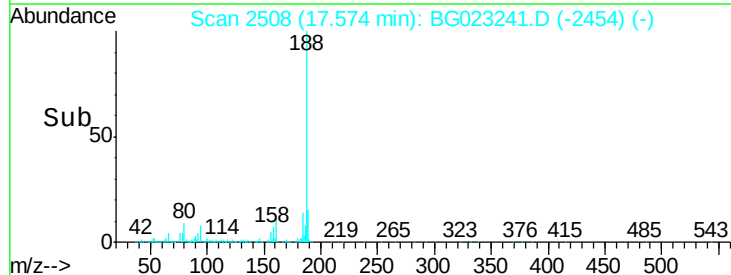
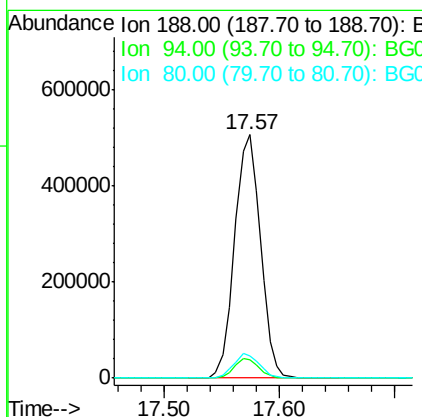
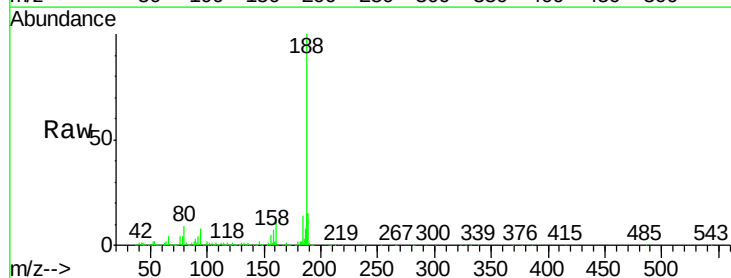
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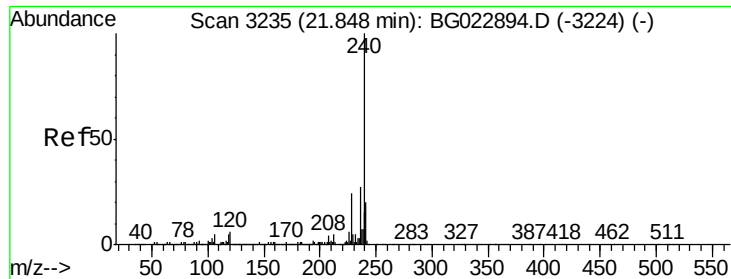
Tgt Ion:172 Resp: 1636309  
Ion Ratio Lower Upper  
172 100  
171 39.6 31.6 47.4  
170 27.1 21.3 31.9



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.57 min Scan# 2508  
Delta R.T. 0.02 min  
Lab File: BG023241.D  
Acq: 23 Jul 2016 8:13

Tgt Ion:188 Resp: 784040  
Ion Ratio Lower Upper  
188 100  
94 7.7 5.2 7.8  
80 9.2 7.2 10.8

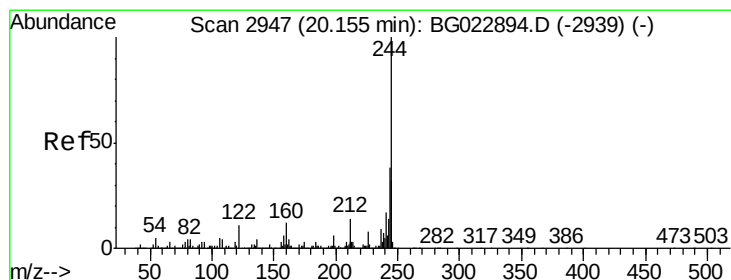
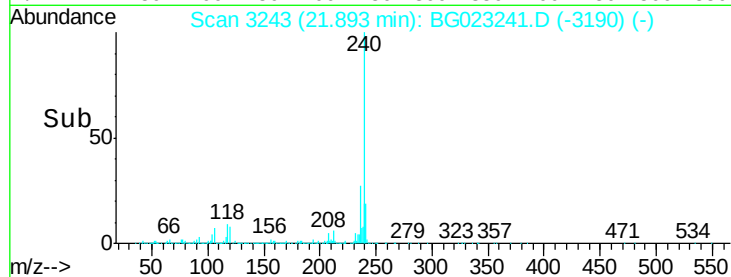
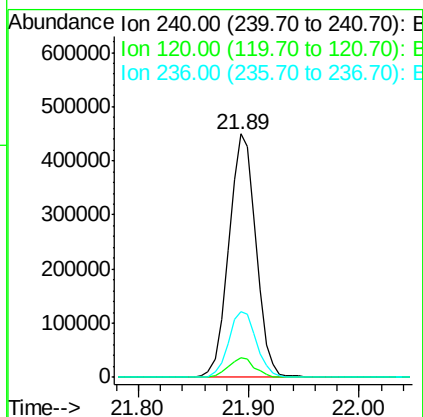
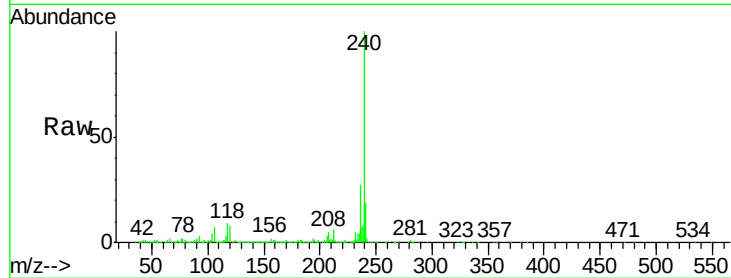




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.89 min Scan# 3243  
Delta R.T. 0.01 min  
Lab File: BG023241.D  
Acq: 23 Jul 2016 8:13

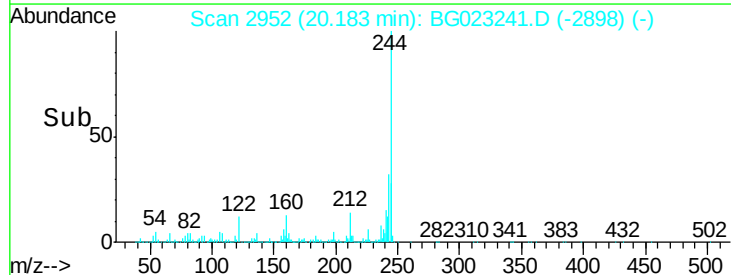
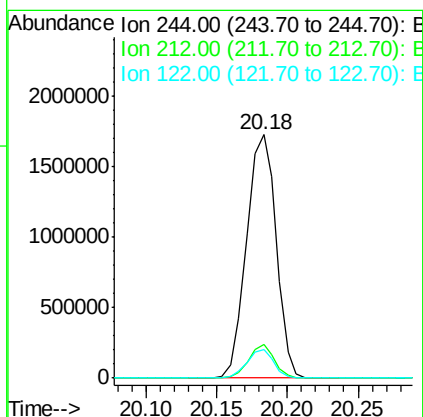
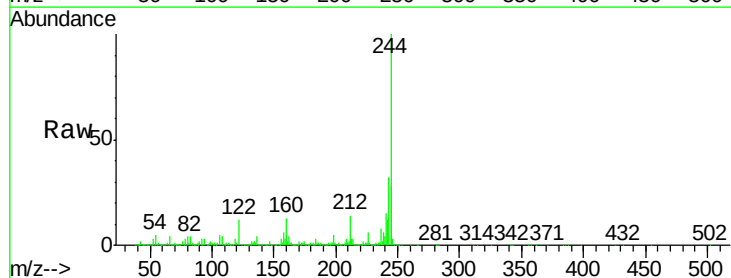
Instrument :  
BNA\_G  
ClientSampleId :  
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Tgt Ion:240 Resp: 775198  
Ion Ratio Lower Upper  
240 100  
120 7.9 4.1 6.1#  
236 27.1 21.1 31.7

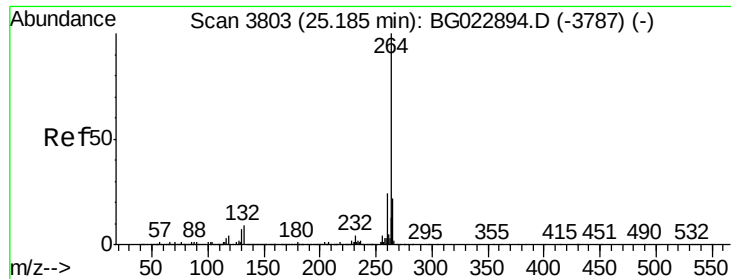


#78  
Terphenyl-d14  
Concen: 125.57 ng  
RT: 20.18 min Scan# 2952  
Delta R.T. 0.02 min  
Lab File: BG023241.D  
Acq: 23 Jul 2016 8:13

Tgt Ion:244 Resp: 2550811  
Ion Ratio Lower Upper  
244 100  
212 14.0 10.8 16.2  
122 11.8 8.0 12.0







#86

Perylene-d12

Concen: 20.00 ng

RT: 25.29 min Scan# 3822

Delta R.T. 0.02 min

Lab File: BG023241.D

Acq: 23 Jul 2016 8:13

Instrument :

BNA\_G

ClientSampleId :

D-28

Tgt Ion: 264 Resp: 264520

Ion Ratio Lower Upper

264 100

260 20.0 18.4 27.6

265 21.3 18.9 28.3

