

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070620\  
 Data File : BP002641.D  
 Acq On : 06 Jul 2020 10:45  
 Operator : CG/JU  
 Sample : PB129912TB  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 06 11:29:37 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP062920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 29 16:51:57 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.57  | 152  | 201005   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.34 | 136  | 739984   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.22 | 164  | 399482   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 16.98 | 188  | 781420   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.09 | 240  | 818378   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 23.28 | 264  | 901008   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.19  | 112  | 1388491  | 116.96 | ng    | 0.00     |
| 7) Phenol-d6                | 6.76  | 99   | 1794444  | 108.29 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.72  | 82   | 1179103  | 82.10  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.72 | 330  | 500513   | 103.01 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.83 | 172  | 2170430  | 79.97  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.57 | 244  | 2939984  | 77.54  | ng    | 0.00     |

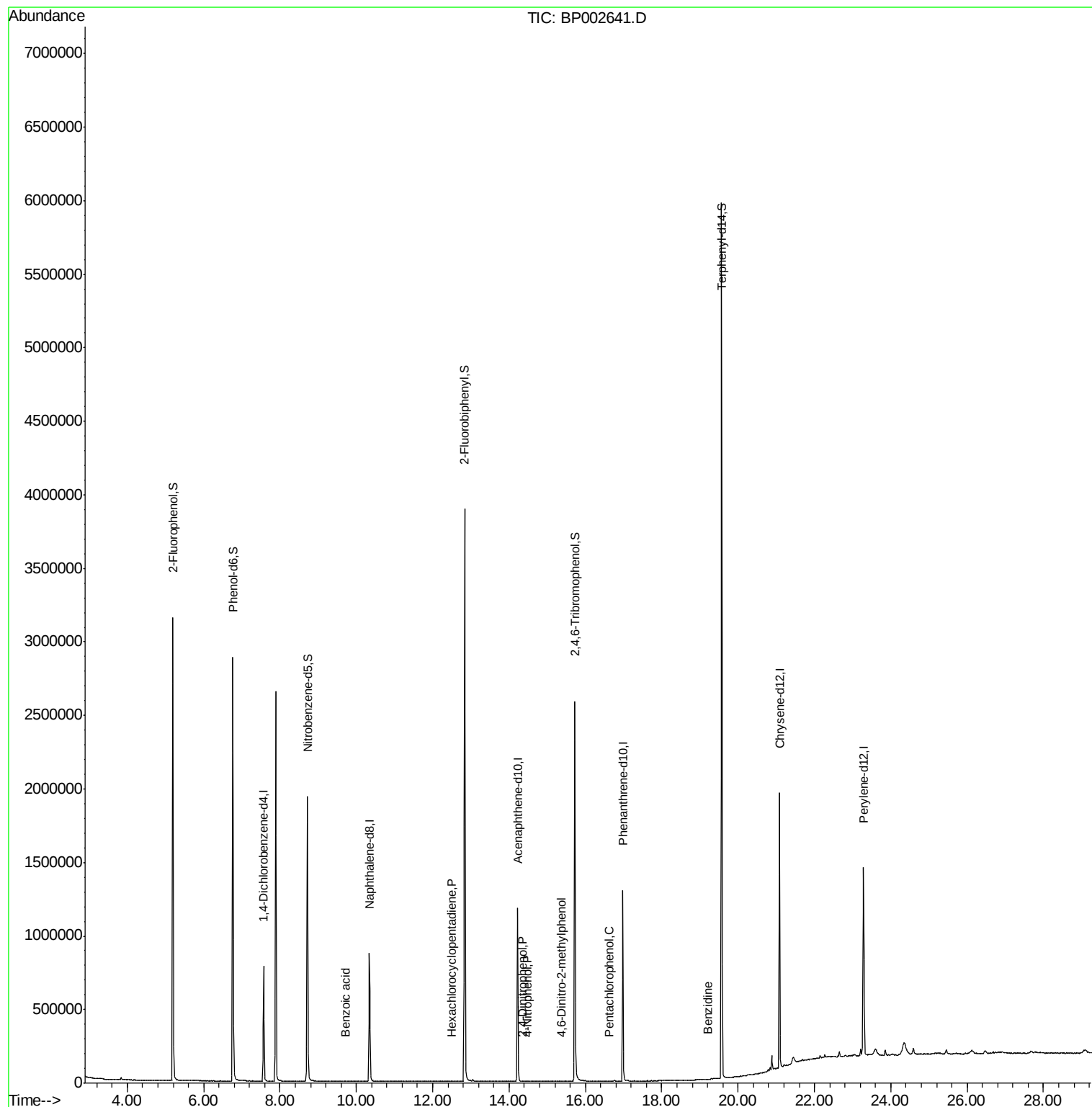
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.72  | 77   | 119      | Below Cal |       | # 57   |
| 32) Benzoic acid               | 9.70  | 122  | 20       | 8.701     | ng    | # 1    |
| 41) Hexachlorocyclopentadiene  | 12.50 | 237  | 22       | 4.385     | ng    | # 92   |
| 54) 2,4-Dinitrophenol          | 14.35 | 184  | 18       | 6.013     | ng    | # 1    |
| 56) 4-Nitrophenol              | 14.48 | 139  | 39       | 2.442     | ng    | # 63   |
| 65) 4,6-Dinitro-2-methylphenol | 15.37 | 198  | 24       | 2.714     | ng    | # 1    |
| 70) Pentachlorophenol          | 16.63 | 266  | 20       | 2.665     | ng    | # 87   |
| 77) Benzidine                  | 19.22 | 184  | 889      | 3.780     | ng    | # 76   |

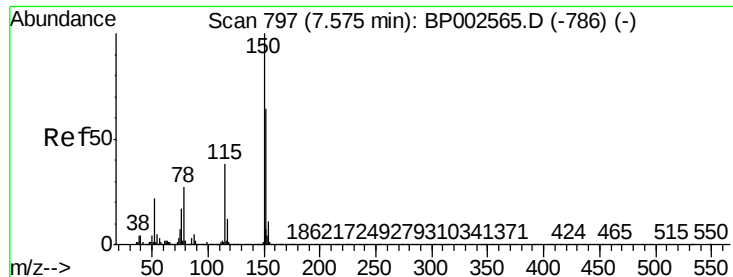
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070620\  
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Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP062920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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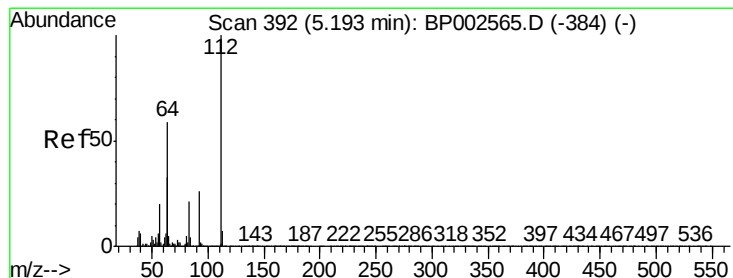
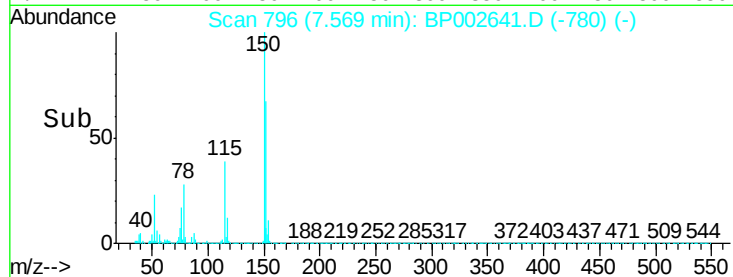
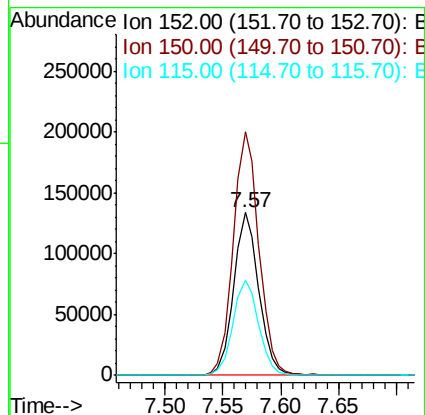
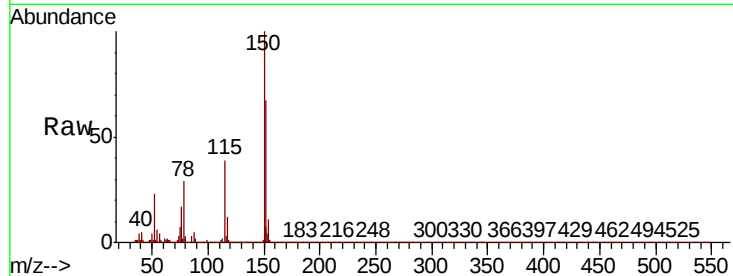


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.57 min Scan# 796  
Delta R.T. -0.01 min  
Lab File: BP002641.D  
Acq: 06 Jul 2020 10:45

Instrument :  
BNA\_F  
ClientSampled :

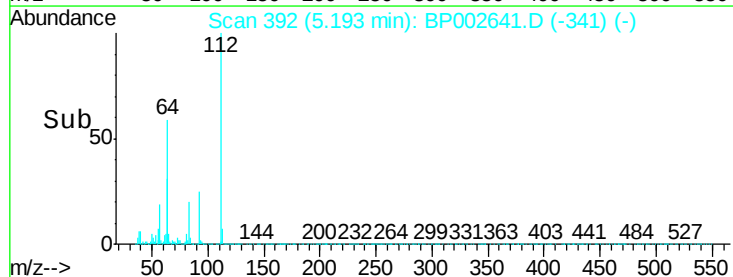
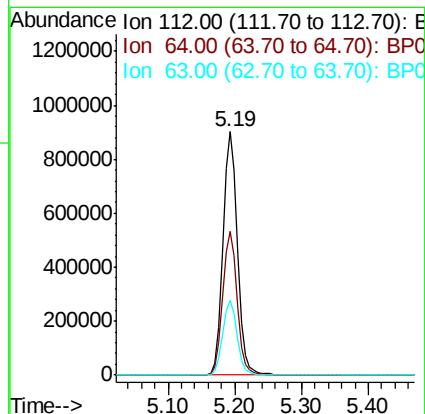
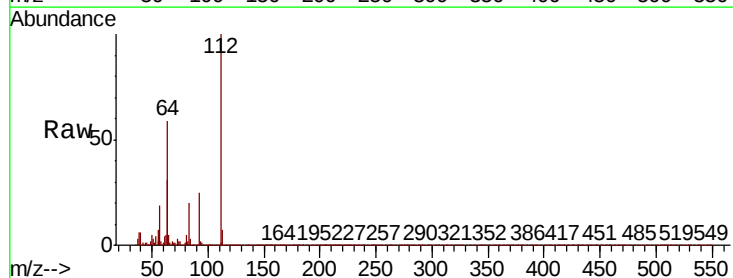
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.9 | 124.2 | 186.2 |
| 115     | 58.7  | 47.1  | 70.7  |

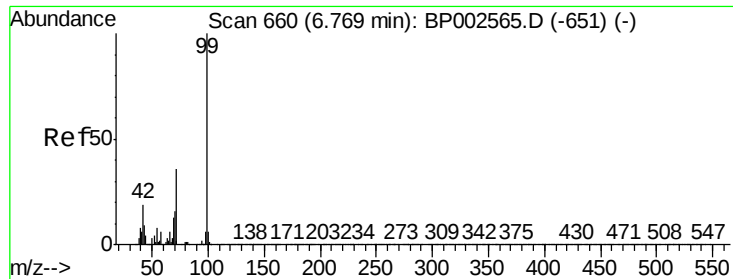


#5

2-Fluorophenol  
Concen: 116.956 ng  
RT: 5.19 min Scan# 392  
Delta R.T. -0.00 min  
Lab File: BP002641.D  
Acq: 06 Jul 2020 10:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.9  | 47.0  | 70.6  |
| 63      | 30.9  | 26.1  | 39.1  |





#7

Phenol-d6

Concen: 108.294 ng

RT: 6.76 min Scan# 659

Delta R.T. -0.01 min

Lab File: BP002641.D

Acq: 06 Jul 2020 10:45

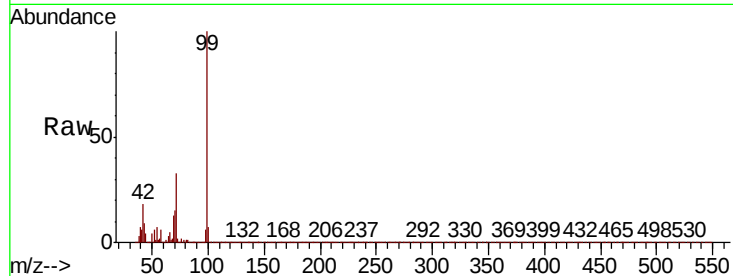
Instrument :

BNA\_F

ClientSampled :

Tot Ion: 99 Resp: 1794444

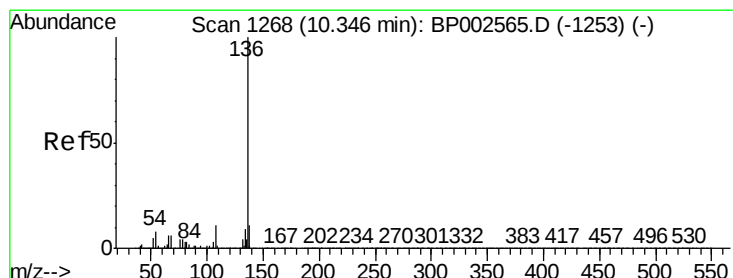
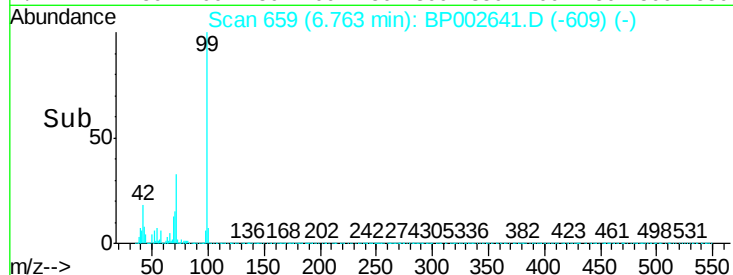
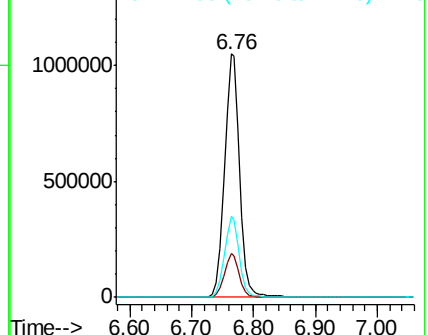
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.9  | 15.5  | 23.3  |
| 71  | 33.4  | 28.9  | 43.3  |



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.34 min Scan# 1267

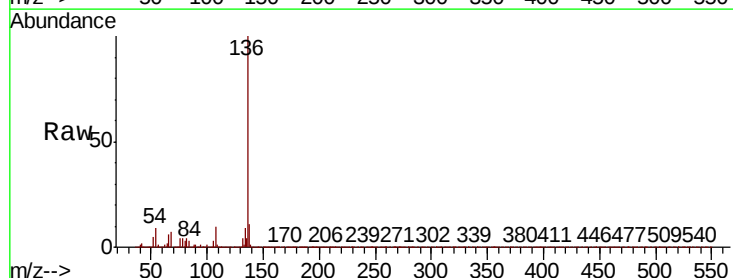
Delta R.T. -0.01 min

Lab File: BP002641.D

Acq: 06 Jul 2020 10:45

Tgt Ion: 136 Resp: 739984

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 8.8   | 13.2  |
| 54  | 9.1   | 6.4   | 9.6   |
| 68  | 7.2   | 5.1   | 7.7   |

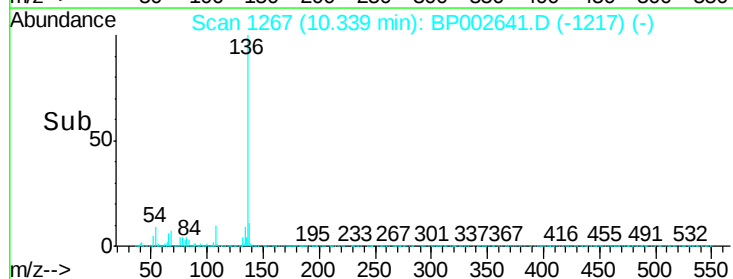
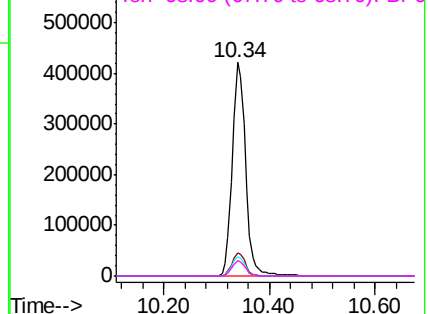


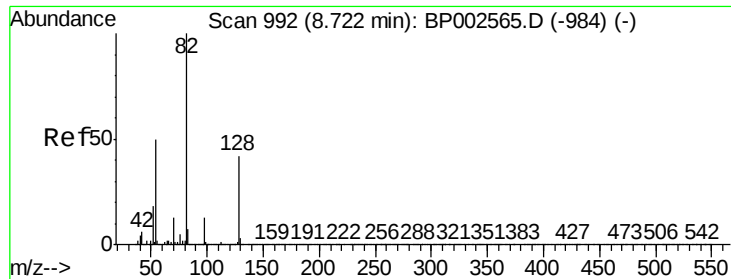
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BP0

Ion 68.00 (67.70 to 68.70): BP0

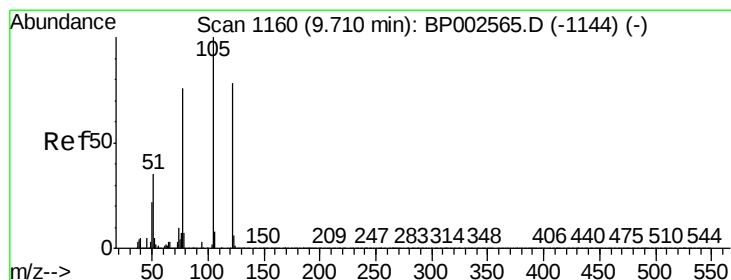
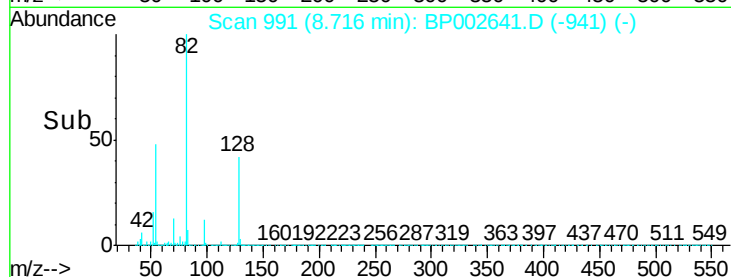
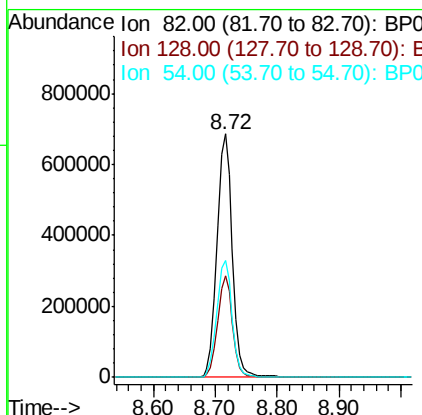
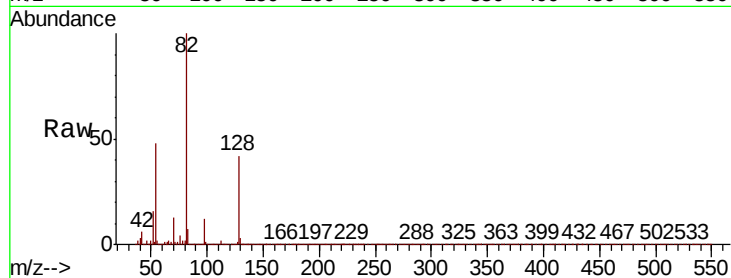




#23  
Nitrobenzene-d5  
Concen: 82.101 ng  
RT: 8.72 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: BP002641.D  
Acq: 06 Jul 2020 10:45

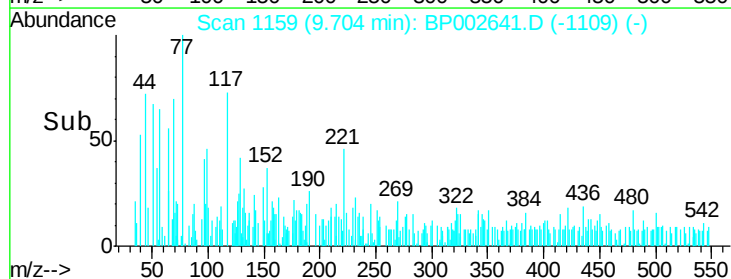
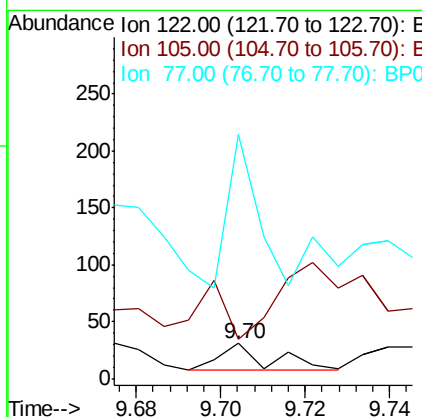
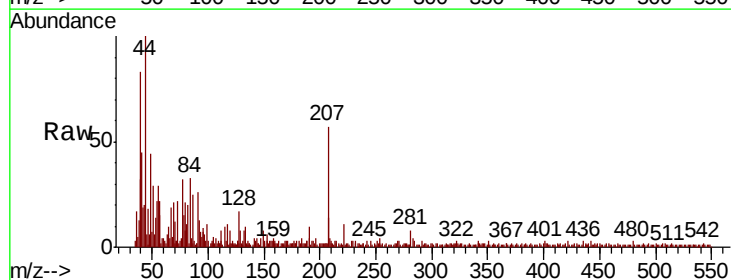
Instrument :  
BNA\_F  
ClientSampleId :

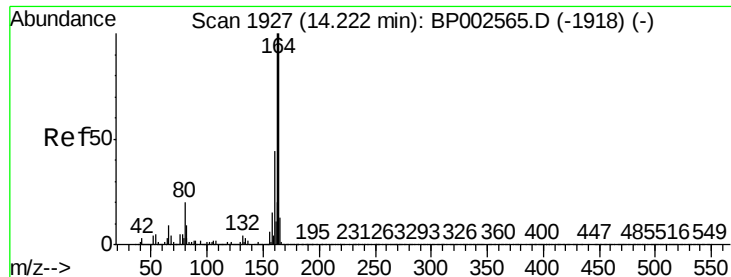
Tot Ion: 82 Resp: 1179103  
Ion Ratio Lower Upper  
82 100  
128 41.6 33.4 50.2  
54 48.3 40.1 60.1



#32  
Benzoic acid  
Concen: 8.701 ng  
RT: 9.70 min Scan# 1159  
Delta R.T. -0.01 min  
Lab File: BP002641.D  
Acq: 06 Jul 2020 10:45

Tgt Ion:122 Resp: 20  
Ion Ratio Lower Upper  
122 100  
105 112.9 106.6 146.6  
77 690.3 76.5 116.5#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.22 min Scan# 1927

Delta R.T. -0.00 min

Lab File: BP002641.D

Acq: 06 Jul 2020 10:45

Instrument :

BNA\_F

ClientSampleId :

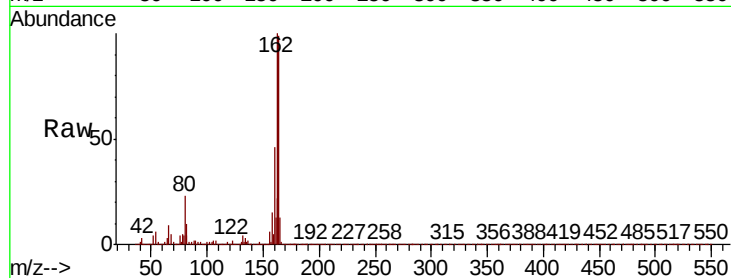
Tot Ion:164 Resp: 399482

Ion Ratio Lower Upper

164 100

162 100.7 80.3 120.5

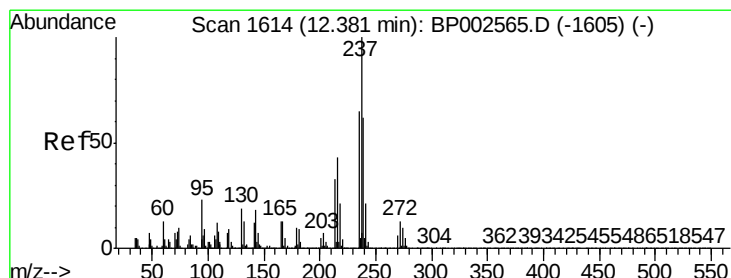
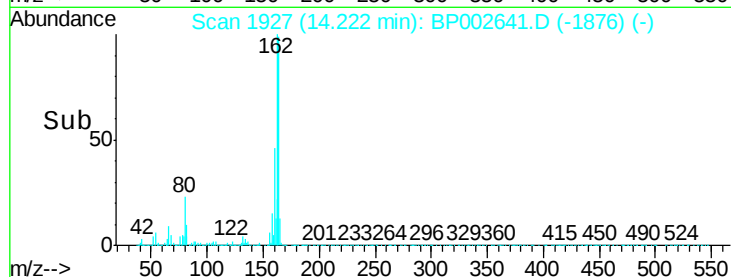
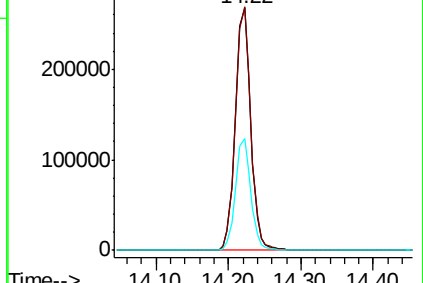
160 46.2 35.0 52.6



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

Hexachlorocyclopentadiene

Concen: 4.385 ng

RT: 12.50 min Scan# 1635

Delta R.T. 0.12 min

Lab File: BP002641.D

Acq: 06 Jul 2020 10:45

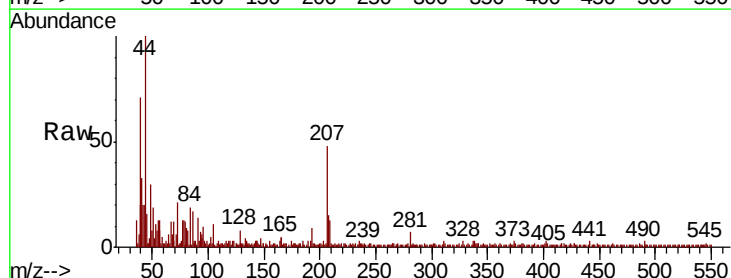
Tgt Ion:237 Resp: 22

Ion Ratio Lower Upper

237 100

235 62.9 45.4 85.4

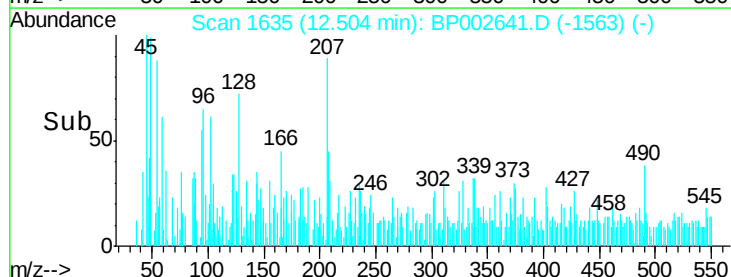
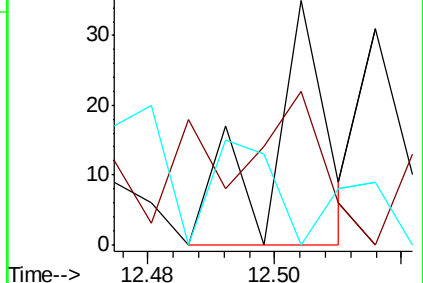
272 0.0 0.0 32.6

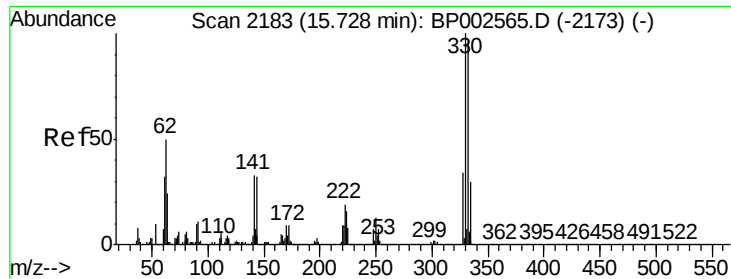


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

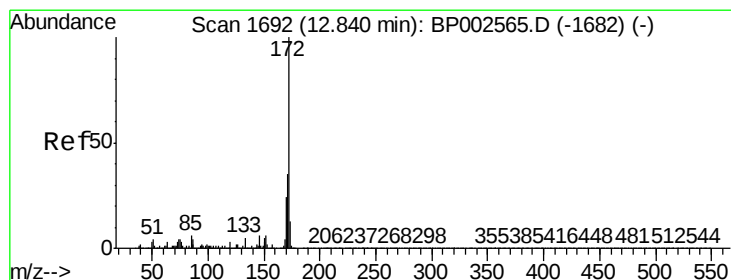
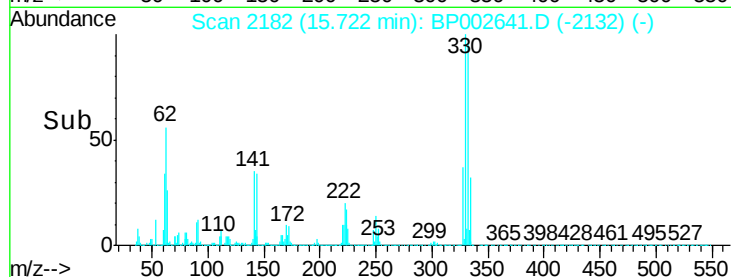
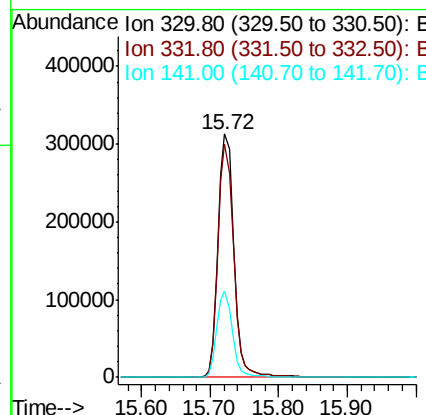
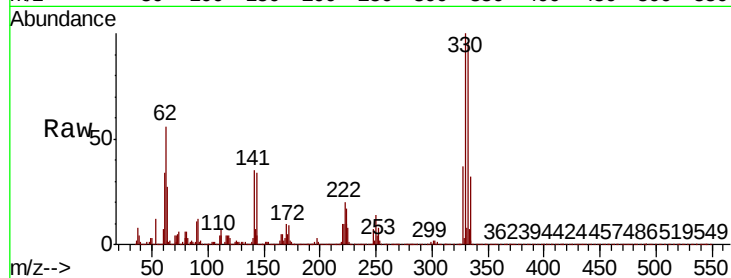




#42  
 2,4,6-Tribromophenol  
 Concen: 103.011 ng  
 RT: 15.72 min Scan# 2182  
 Delta R.T. -0.01 min  
 Lab File: BP002641.D  
 Acq: 06 Jul 2020 10:45

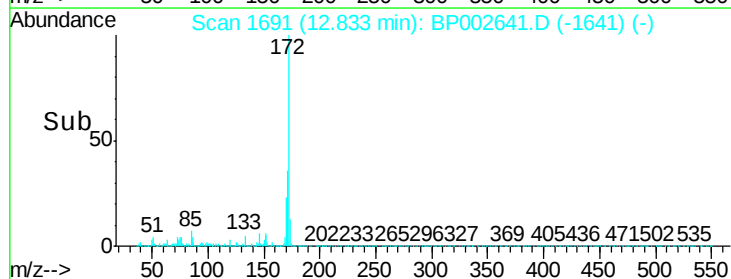
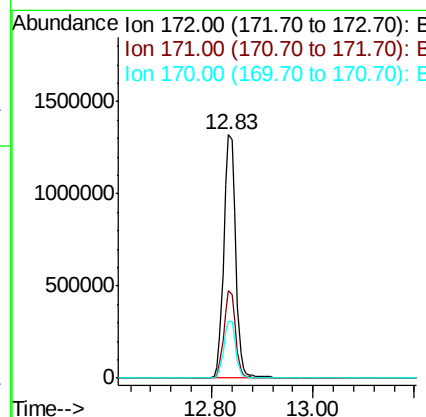
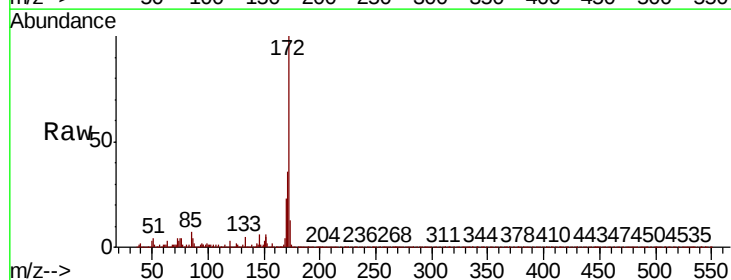
Instrument :  
 BNA\_F  
 ClientSampleId :

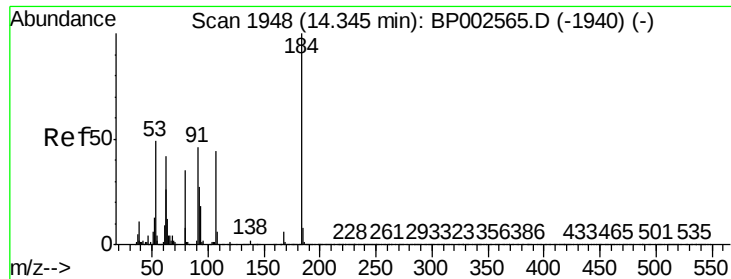
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.0  | 77.7  | 116.5 |
| 141     | 35.2  | 29.0  | 43.6  |



#45  
 2-Fluorobiphenyl  
 Concen: 79.966 ng  
 RT: 12.83 min Scan# 1691  
 Delta R.T. -0.01 min  
 Lab File: BP002641.D  
 Acq: 06 Jul 2020 10:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 28.0  | 42.0  |
| 170     | 23.5  | 19.0  | 28.4  |

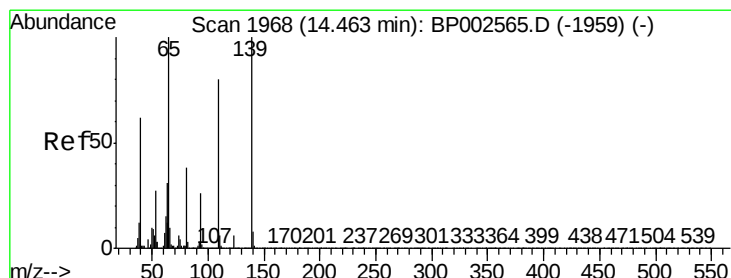
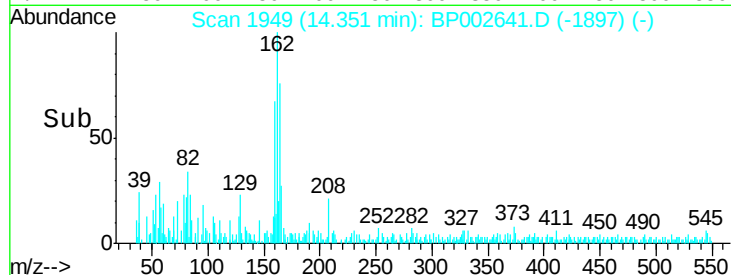
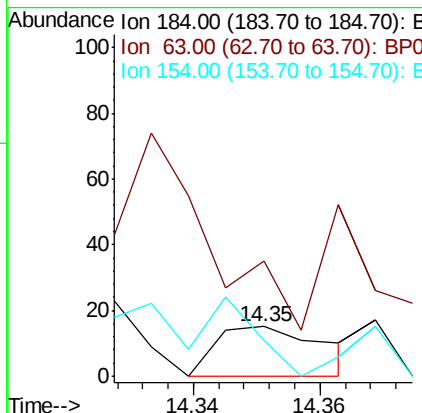
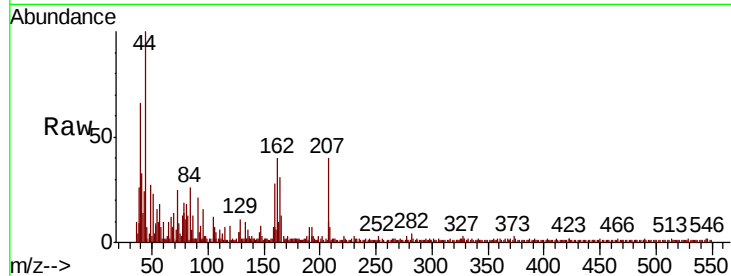




#54  
2,4-Dinitrophenol  
Concen: 6.013 ng  
RT: 14.35 min Scan# 1949  
Delta R.T. 0.01 min  
Lab File: BP002641.D  
Acq: 06 Jul 2020 10:45

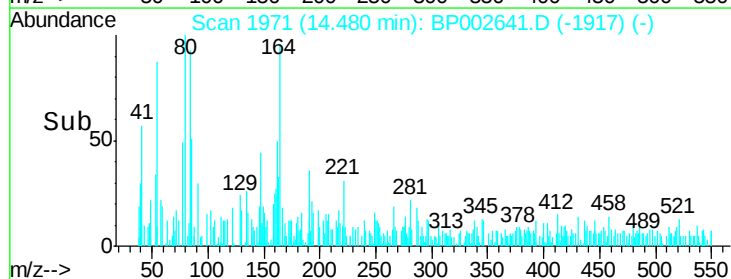
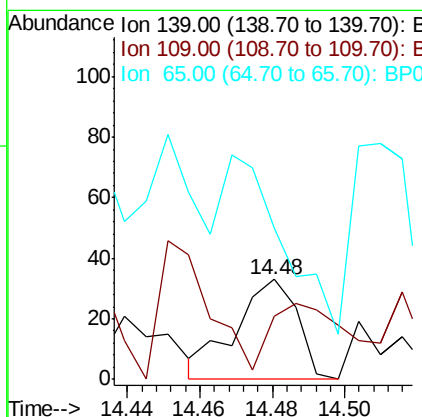
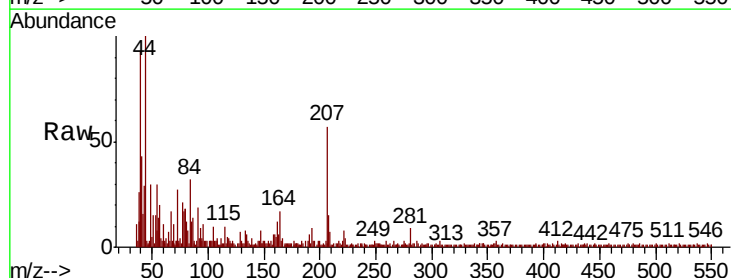
Instrument :  
BNA\_F  
ClientSampled :

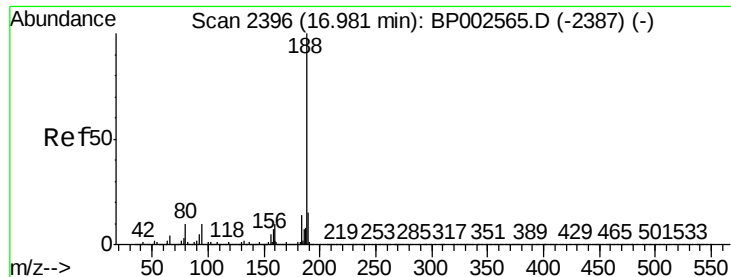
Tot Ion:184 Resp: 18  
Ion Ratio Lower Upper  
184 100  
63 233.3 56.2 84.2#  
154 73.3 50.9 76.3



#56  
4-Nitrophenol  
Concen: 2.442 ng  
RT: 14.48 min Scan# 1971  
Delta R.T. 0.02 min  
Lab File: BP002641.D  
Acq: 06 Jul 2020 10:45

Tgt Ion:139 Resp: 39  
Ion Ratio Lower Upper  
139 100  
109 63.6 60.1 100.1  
65 151.5 80.3 120.3#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.98 min Scan# 2396

Delta R.T. -0.00 min

Lab File: BP002641.D

Acq: 06 Jul 2020 10:45

Instrument :

BNA\_F

ClientSampleId :

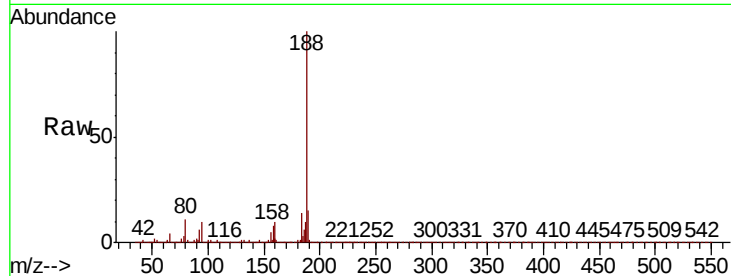
Tot Ion:188 Resp: 781420

Ion Ratio Lower Upper

188 100

94 10.3 7.8 11.6

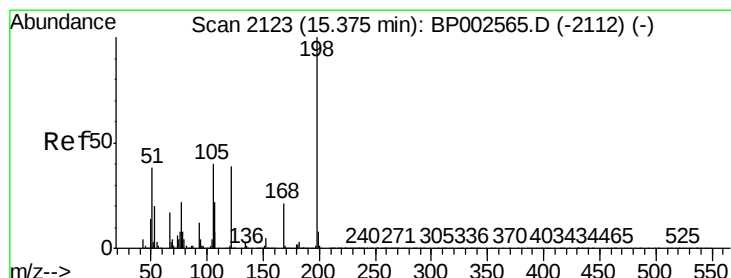
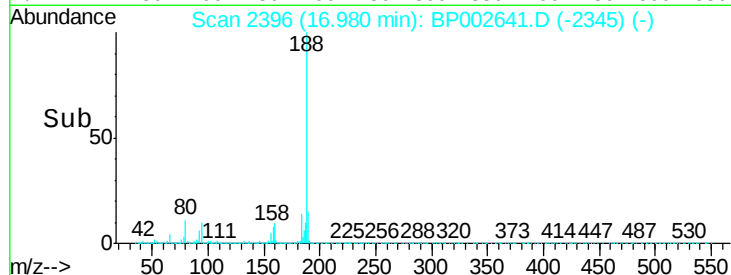
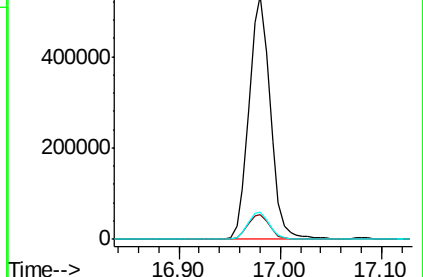
80 11.2 8.2 12.4



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BP0

Ion 80.00 (79.70 to 80.70): BP0



#65

4,6-Dinitro-2-methylphenol

Concen: 2.714 ng

RT: 15.37 min Scan# 2122

Delta R.T. -0.01 min

Lab File: BP002641.D

Acq: 06 Jul 2020 10:45

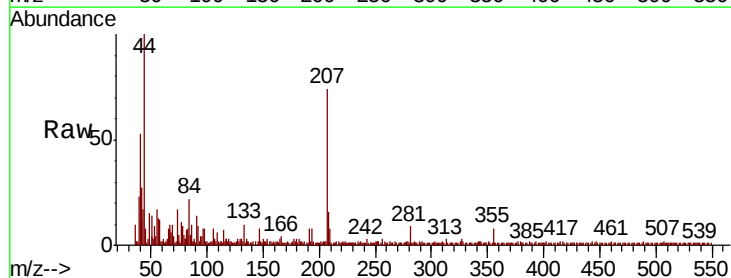
Tgt Ion:198 Resp: 24

Ion Ratio Lower Upper

198 100

51 550.0 24.2 64.2#

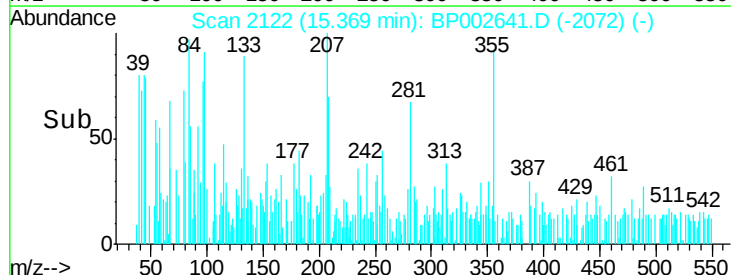
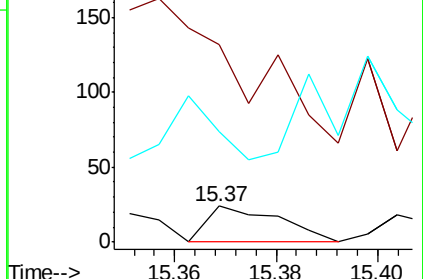
105 308.3 20.7 60.7#

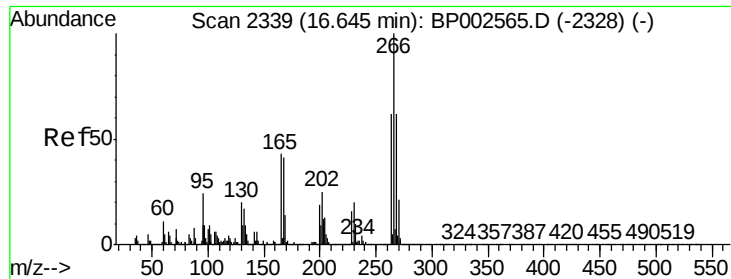


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BP0

Ion 105.00 (104.70 to 105.70): E

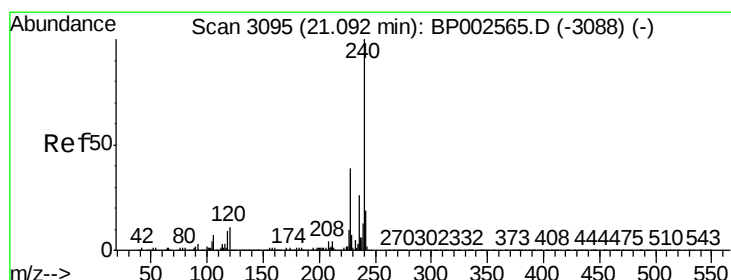
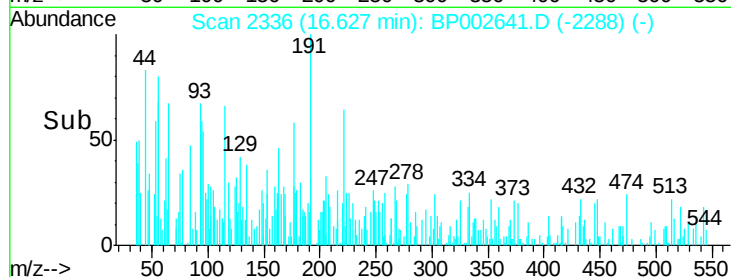
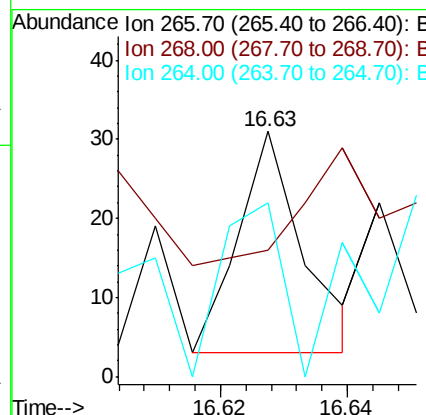
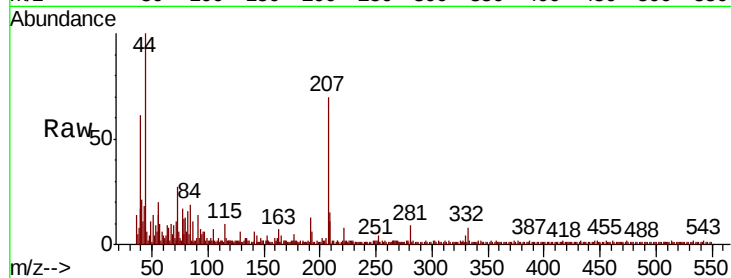




#70  
 Pentachlorophenol  
 Concen: 2.665 ng  
 RT: 16.63 min Scan# 2336  
 Delta R.T. -0.02 min  
 Lab File: BP002641.D  
 Acq: 06 Jul 2020 10:45

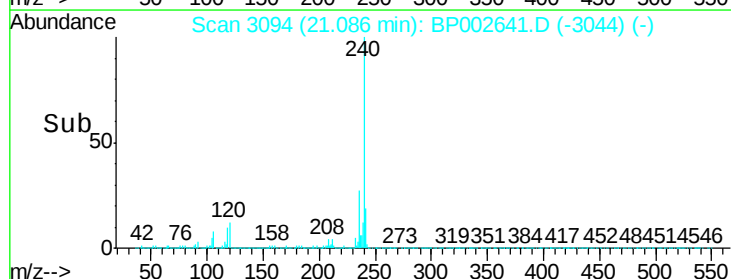
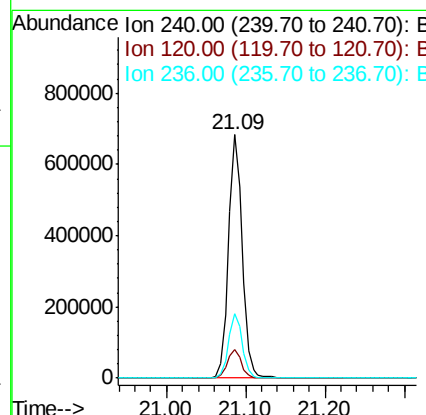
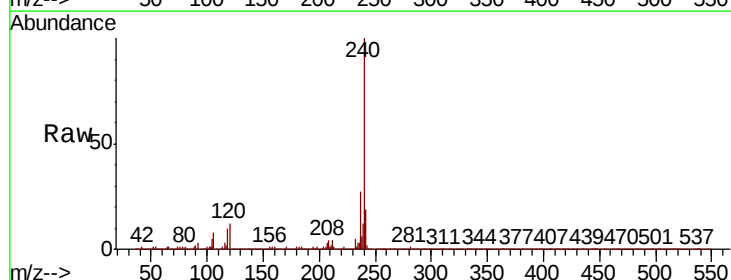
Instrument :  
 BNA\_F  
 ClientSampleId :

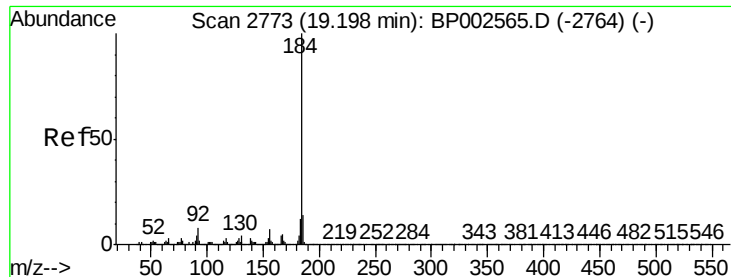
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 51.6  | 49.7  | 74.5  |
| 264     | 71.0  | 49.3  | 73.9  |



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.09 min Scan# 3094  
 Delta R.T. -0.01 min  
 Lab File: BP002641.D  
 Acq: 06 Jul 2020 10:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.8  | 8.6   | 13.0  |
| 236     | 26.6  | 20.8  | 31.2  |





#77

Benzidine

Concen: 3.780 ng

RT: 19.22 min Scan# 2777

Delta R.T. 0.02 min

Lab File: BP002641.D

Acq: 06 Jul 2020 10:45

Instrument :

BNA\_F

ClientSampleId :

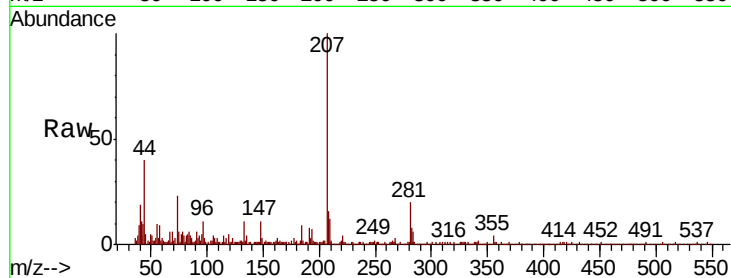
Tot Ion:184 Resp: 889

Ion Ratio Lower Upper

184 100

185 25.2 11.4 17.2#

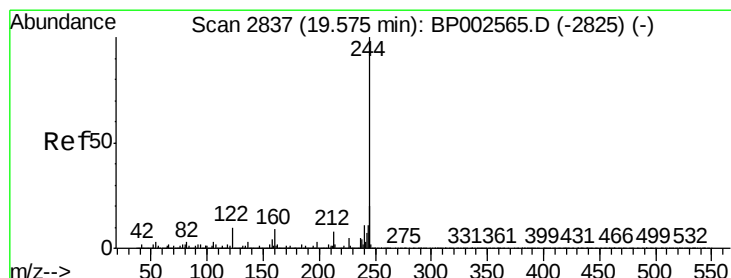
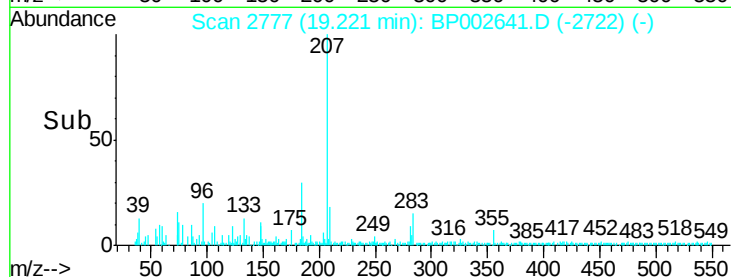
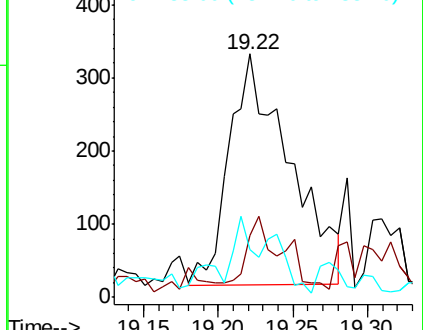
183 19.5 9.2 13.8#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 77.543 ng

RT: 19.57 min Scan# 2836

Delta R.T. -0.01 min

Lab File: BP002641.D

Acq: 06 Jul 2020 10:45

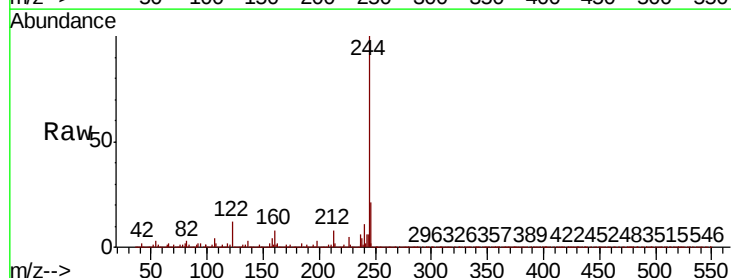
Tgt Ion:244 Resp: 2939984

Ion Ratio Lower Upper

244 100

212 7.8 6.5 9.7

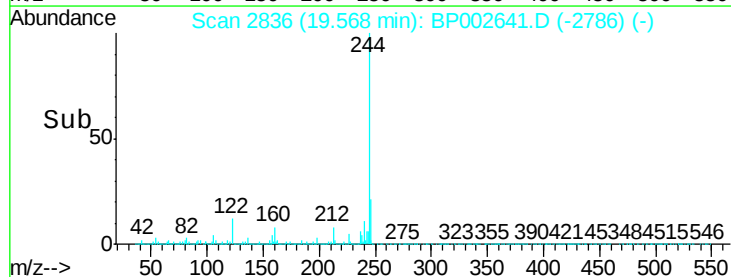
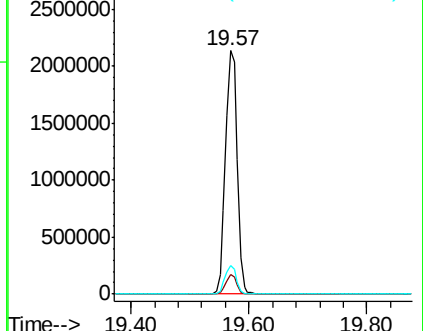
122 11.6 7.9 11.9

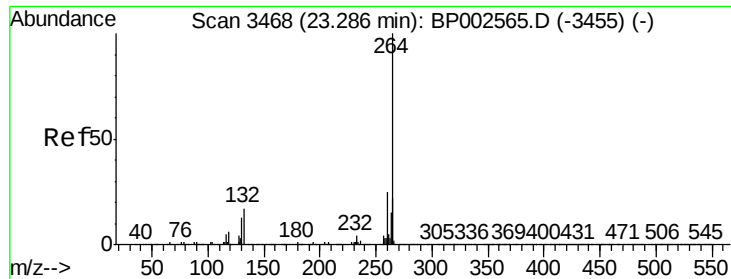


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 23.28 min Scan# 3467  
Delta R.T. -0.01 min  
Lab File: BP002641.D  
Acq: 06 Jul 2020 10:45

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.2  | 19.7  | 29.5  |
| 265     | 20.1  | 17.6  | 26.4  |

