

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081018\  
 Data File : BN002294.D  
 Acq On : 10 Aug 2018 19:35  
 Operator : JU/SJ  
 Sample : J4406-05  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Aug 11 00:35:23 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN071318MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Aug 11 00:34:17 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.74  | 152  | 85442    | 20.00 | ng/ul | 0.06     |
| 18) Naphthalene-d8        | 10.49 | 136  | 978768   | 20.00 | ng/ul | 0.04     |
| 35) Acenaphthene-d10      | 14.32 | 164  | 528554   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.06 | 188  | 1033030  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.27 | 240  | 803243   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.49 | 264  | 806885   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

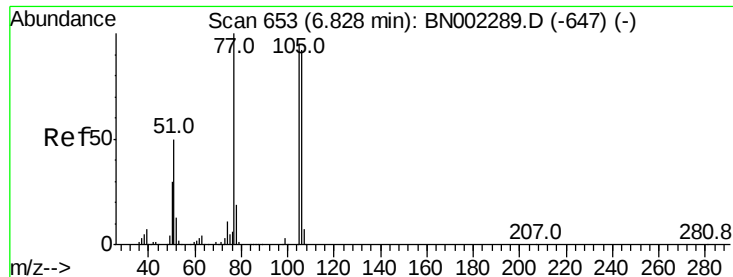
|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 37769   | 19.95 | ng/uL | 0.01 |
| 5) Phenol-d5                   | 6.88  | 99  | 150244  | 18.67 | ng/ul | 0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.06  | 67  | 450212  | 91.84 | ng/ul | 0.05 |
| 9) 2-Chlorophenol-d4           | 7.24  | 132 | 454623  | 71.54 | ng/ul | 0.03 |
| 13) 4-Methylphenol-d8          | 8.40  | 113 | 282144  | 43.53 | ng/ul | 0.02 |
| 19) Nitrobenzene-d5            | 8.85  | 128 | 288015  | 35.52 | ng/ul | 0.02 |
| 22) 2-Nitrophenol-d4           | 9.56  | 143 | 316130  | 34.48 | ng/ul | 0.02 |
| 26) 2,4-Dichlorophenol-d3      | 10.10 | 165 | 503867  | 30.36 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.62 | 131 | 3191    | 0.17  | ng/ul | 0.03 |
| 43) Dimethylphthalate-d6       | 13.73 | 166 | 1638794 | 36.58 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.01 | 160 | 2043482 | 36.66 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.54 | 143 | 50388   | 5.89  | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.31 | 176 | 1340376 | 34.79 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.44 | 200 | 231323  | 34.38 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.16 | 188 | 1912987 | 37.98 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.47 | 212 | 1766571 | 42.31 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.35 | 264 | 1589359 | 36.48 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |         | Ovalue |    |
|--------------------------------|-------|-----|---------|---------|--------|----|
| 4) Benzaldehyde                | 6.88  | 77  | 5975    | 1.252   | ng/ul# | 55 |
| 10) 2-Chlorophenol             | 7.27  | 128 | 109774  | 17.317  | ng/ul# | 80 |
| 11) 2-Methylphenol             | 8.11  | 108 | 310396  | 49.947  | ng/ul  | 94 |
| 15) N-Nitroso-di-n-propylamine | 8.40  | 70  | 7062    | 1.310   | ng/ul# | 1  |
| 17) Hexachloroethane           | 8.77  | 117 | 4371    | 1.744   | ng/ul  | 96 |
| 20) Nitrobenzene               | 8.90  | 77  | 2921595 | 156.537 | ng/ul  | 94 |
| 23) 2-Nitrophenol              | 9.59  | 139 | 39353   | 4.191   | ng/ul# | 84 |
| 27) 2,4-Dichlorophenol         | 10.28 | 162 | 17548   | 1.101   | ng/ul  | 96 |
| 32) Caprolactam                | 11.28 | 113 | 70670   | 11.933  | ng/ul# | 1  |
| 36) 1,2,4,5-Tetrachlorobenzene | 12.50 | 216 | 1072196 | 62.559  | ng/ul  | 98 |
| 45) 2,6-Dinitrotoluene         | 13.73 | 165 | 9697    | 1.045   | ng/ul# | 44 |
| 68) Pentachlorophenol          | 16.72 | 266 | 8357    | 1.168   | ng/ul  | 90 |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.12 | 216 | 2946714 | 191.302 | ng/uL  | 99 |
| 73) Pentachlorobenzene         | 14.64 | 250 | 60945   | 4.230   | ng/uL  | 99 |

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





#4

Benzaldehyde

Concen: 1.252 ng/ul

RT: 6.88 min Scan# 662

Delta R.T. 0.05 min

Lab File: BN002294.D

Acq: 10 Aug 2018 19:35

Instrument :

BNA\_N

ClientSampled :

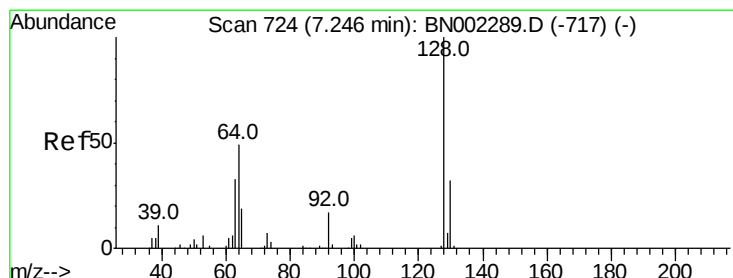
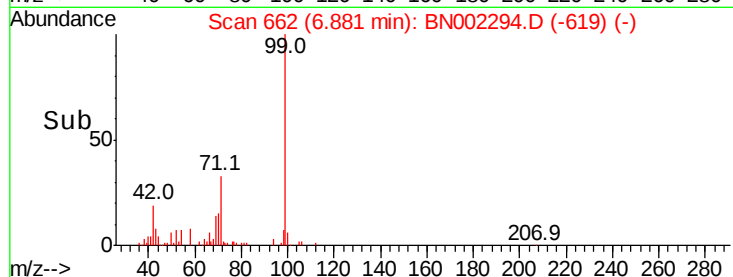
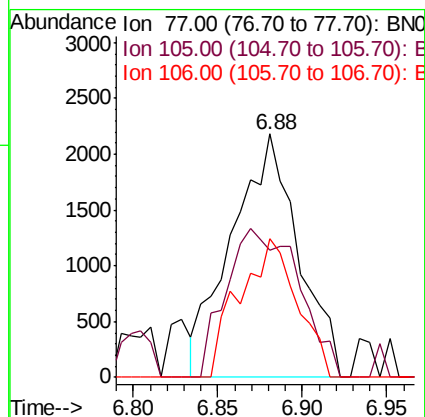
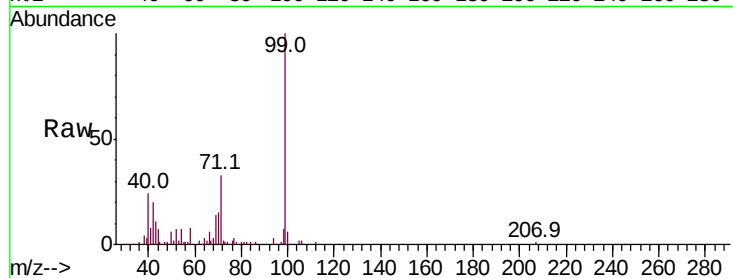
Tot Ion: 77 Resp: 5975

Ion Ratio Lower Upper

77 100

105 52.2 80.6 120.8#

106 57.2 77.7 116.5#



#10

2-Chlorophenol

Concen: 17.317 ng/ul

RT: 7.27 min Scan# 728

Delta R.T. 0.02 min

Lab File: BN002294.D

Acq: 10 Aug 2018 19:35

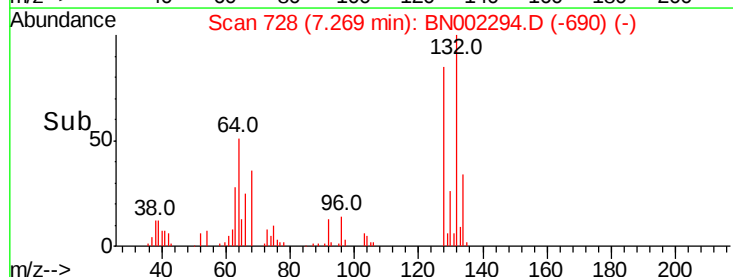
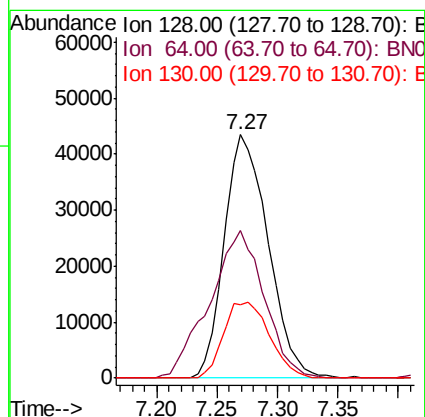
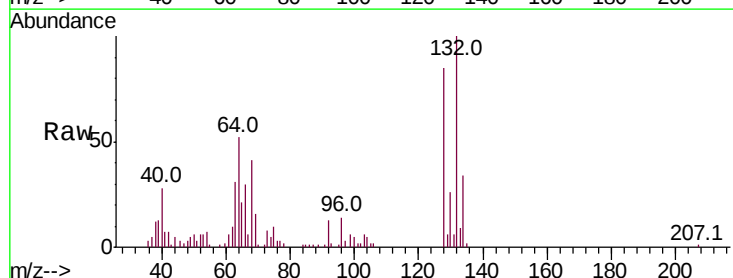
Tgt Ion: 128 Resp: 109774

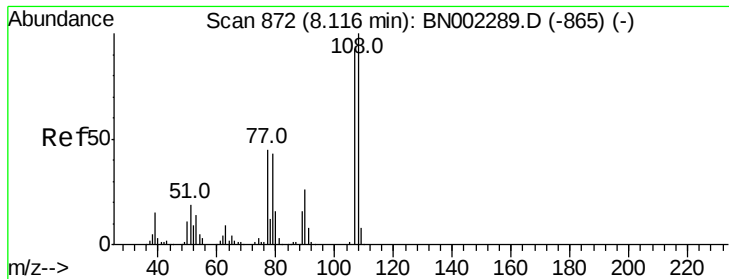
Ion Ratio Lower Upper

128 100

64 60.5 31.9 47.9#

130 30.2 25.6 38.4





#11

2-Methylphenol

Concen: 49.947 ng/ul

RT: 8.11 min Scan# 871

Delta R.T. -0.01 min

Lab File: BN002294.D

Acq: 10 Aug 2018 19:35

Instrument :

BNA\_N

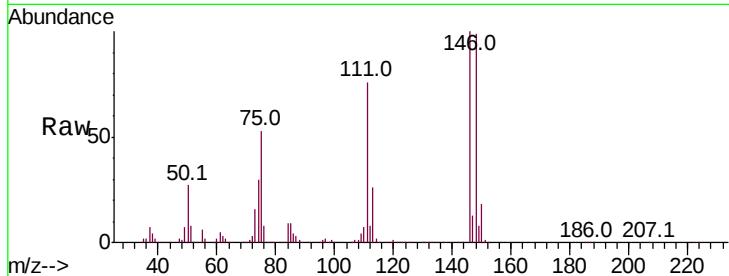
ClientSampled :

Tot Ion:108 Resp: 310396

Ion Ratio Lower Upper

108 100

107 85.3 72.4 108.6



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

150000

100000

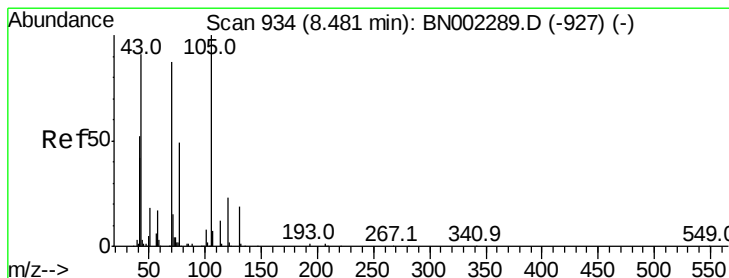
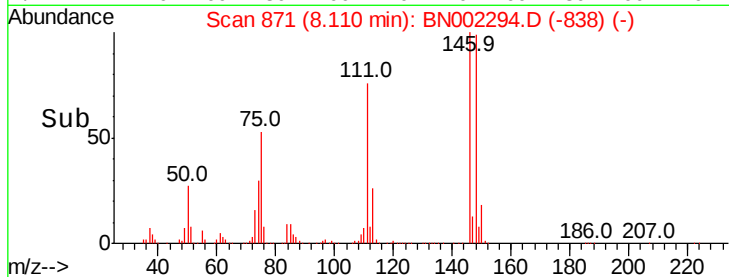
50000

0

8.00 8.05 8.10

8.11

Time-->



#15

N-Nitroso-di-n-propylamine

Concen: 1.310 ng/ul

RT: 8.40 min Scan# 921

Delta R.T. -0.08 min

Lab File: BN002294.D

Acq: 10 Aug 2018 19:35

Tgt Ion: 70 Resp: 7062

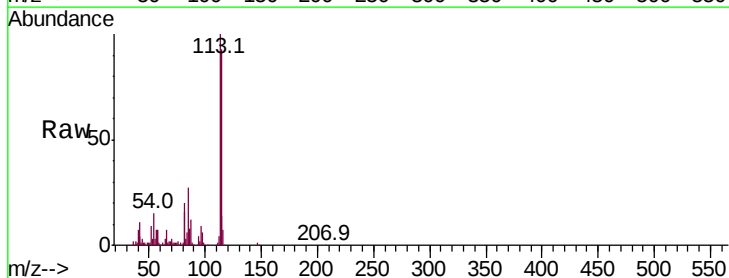
Ion Ratio Lower Upper

70 100

42 423.7 35.4 53.0#

101 0.0 8.4 12.6#

130 0.0 18.2 27.4#



Abundance Ion 70.00 (69.70 to 70.70): BNC

Ion 42.00 (41.70 to 42.70): BNC

Ion 101.00 (100.70 to 101.70): BNC

Ion 130.00 (129.70 to 130.70): BNC

25000

20000

15000

10000

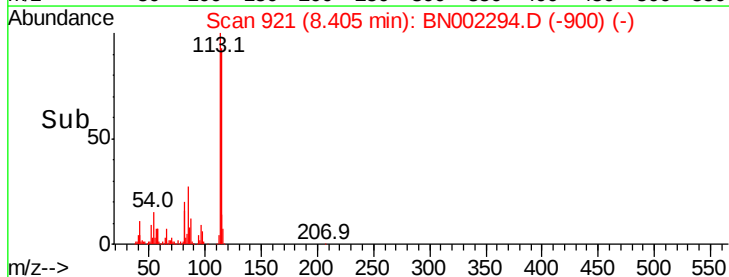
5000

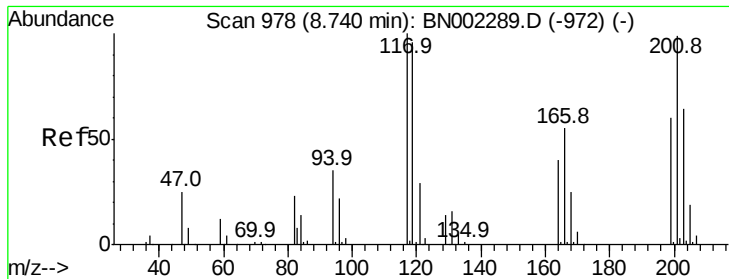
0

8.36 8.38 8.40 8.42 8.44

8.40

Time-->

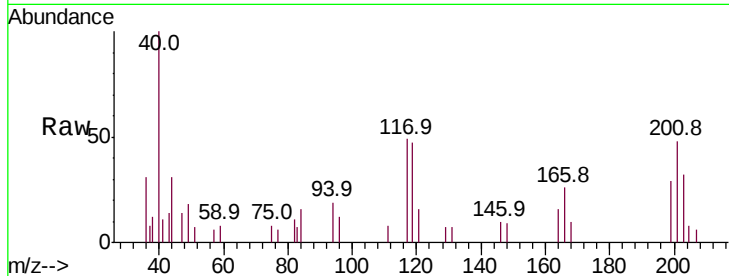




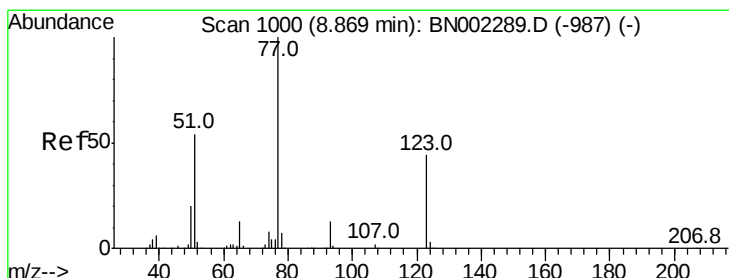
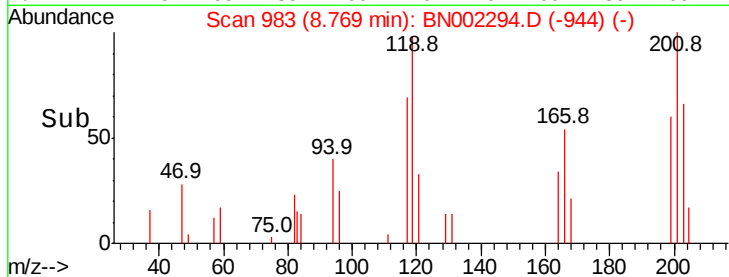
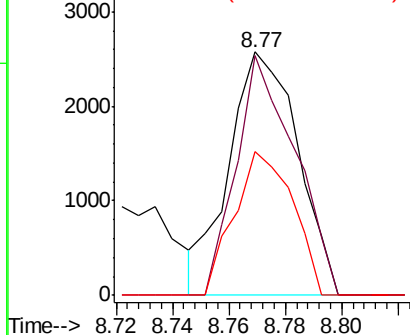
#17  
Hexachloroethane  
Concen: 1.744 ng/ul  
RT: 8.77 min Scan# 983  
Delta R.T. 0.03 min  
Lab File: BN002294.D  
Acq: 10 Aug 2018 19:35

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:117 Resp: 4371  
Ion Ratio Lower Upper  
117 100  
201 98.3 81.5 122.3  
199 59.0 50.6 76.0

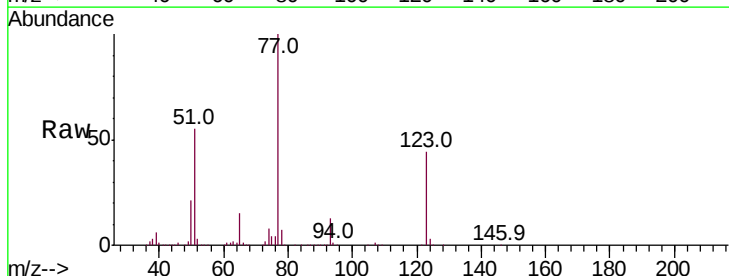


Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 201.00 (200.70 to 201.70): E  
Ion 199.00 (198.70 to 199.70): E

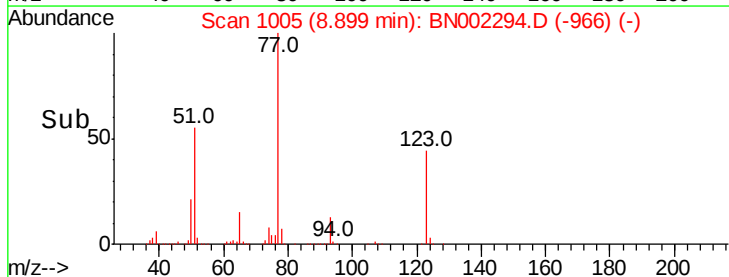
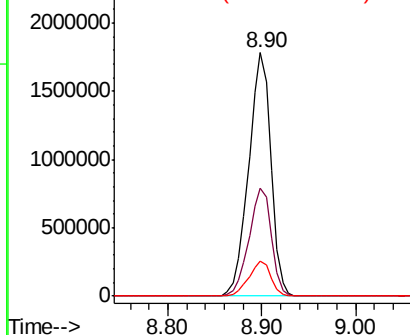


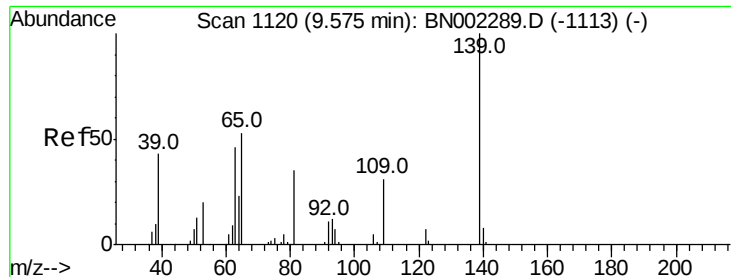
#20  
Nitrobenzene  
Concen: 156.537 ng/ul  
RT: 8.90 min Scan# 1005  
Delta R.T. 0.03 min  
Lab File: BN002294.D  
Acq: 10 Aug 2018 19:35

Tgt Ion: 77 Resp: 2921595  
Ion Ratio Lower Upper  
77 100  
123 44.4 39.0 58.4  
65 14.6 10.4 15.6



Abundance Ion 77.00 (76.70 to 77.70): BNC  
Ion 123.00 (122.70 to 123.70): E  
Ion 65.00 (64.70 to 65.70): BNC

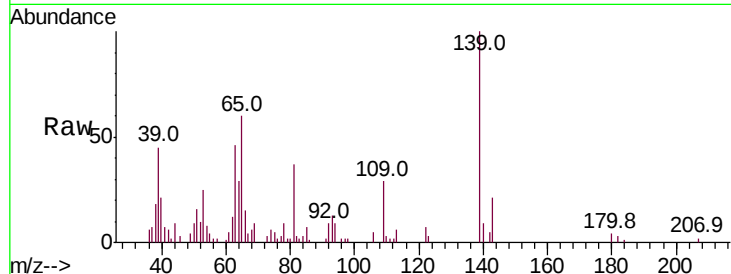




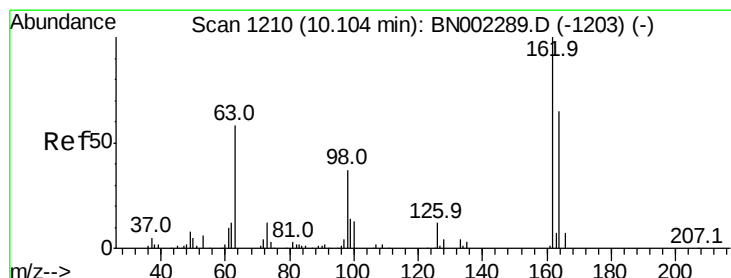
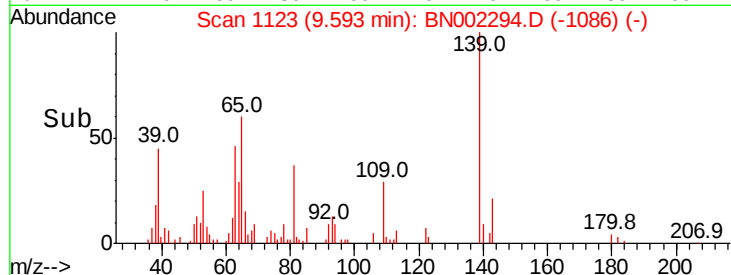
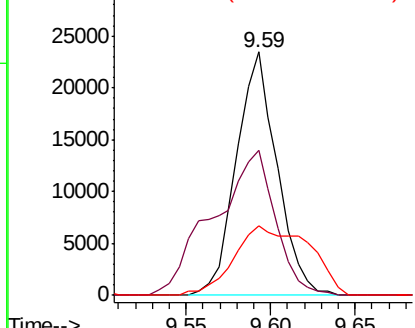
#23  
2-Nitrophenol  
Concen: 4.191 ng/ul  
RT: 9.59 min Scan# 1123  
Delta R.T. 0.02 min  
Lab File: BN002294.D  
Acq: 10 Aug 2018 19:35

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:139 Resp: 39353  
Ion Ratio Lower Upper  
139 100  
65 59.7 36.3 54.5#  
109 28.8 26.4 39.6

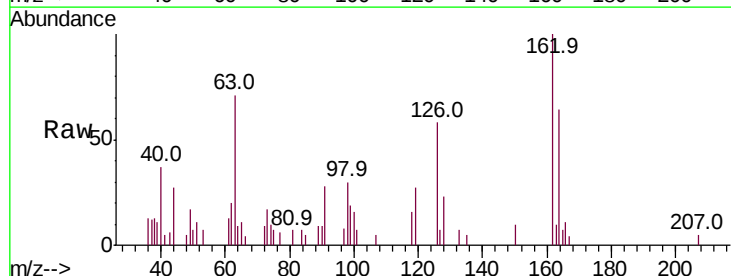


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 65.00 (64.70 to 65.70): BNO  
Ion 109.00 (108.70 to 109.70): E

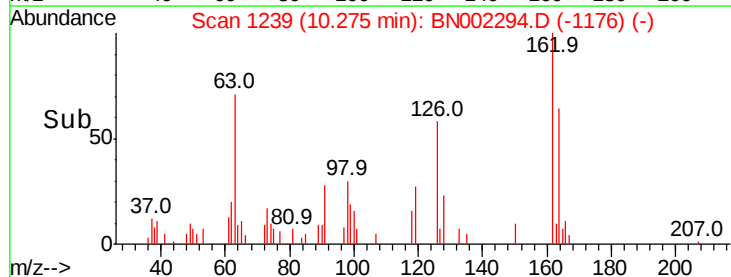
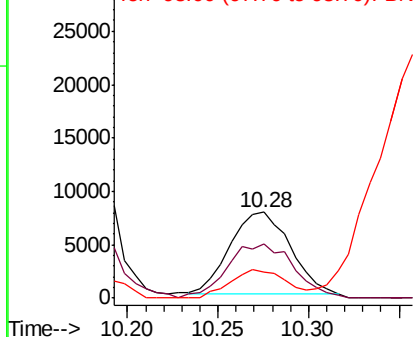


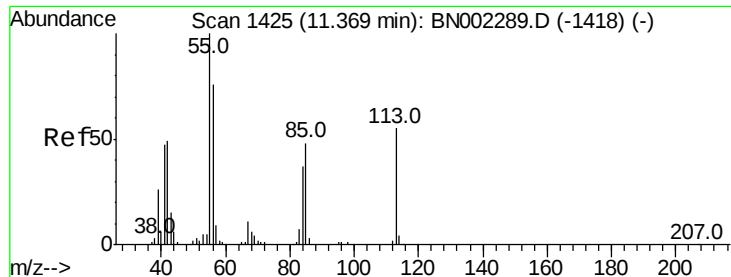
#27  
2,4-Dichlorophenol  
Concen: 1.101 ng/ul  
RT: 10.28 min Scan# 1239  
Delta R.T. 0.17 min  
Lab File: BN002294.D  
Acq: 10 Aug 2018 19:35

Tgt Ion:162 Resp: 17548  
Ion Ratio Lower Upper  
162 100  
164 63.7 52.1 78.1  
98 30.4 28.4 42.6



Abundance Ion 162.00 (161.70 to 162.70): E  
Ion 164.00 (163.70 to 164.70): E  
Ion 98.00 (97.70 to 98.70): BNO





#32

Caprolactam

Concen: 11.933 ng/ul

RT: 11.28 min Scan# 1409

Delta R.T. -0.09 min

Lab File: BN002294.D

Acq: 10 Aug 2018 19:35

Instrument :

BNA\_N

ClientSampled :

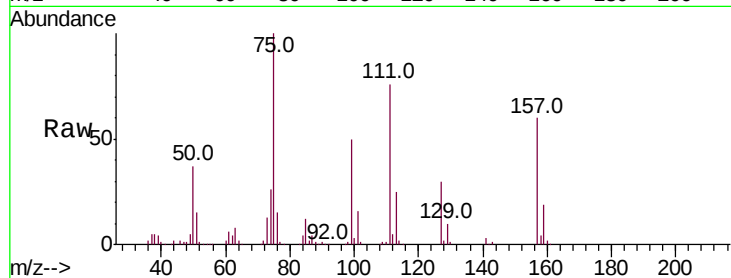
Tot Ion:113 Resp: 70670

Ion Ratio Lower Upper

113 100

55 0.9 101.9 152.9#

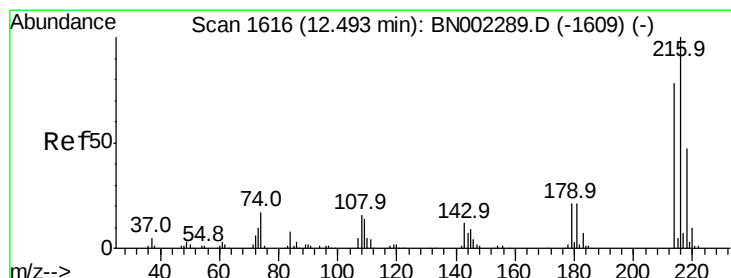
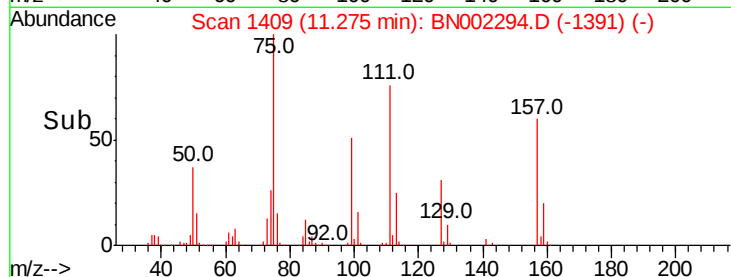
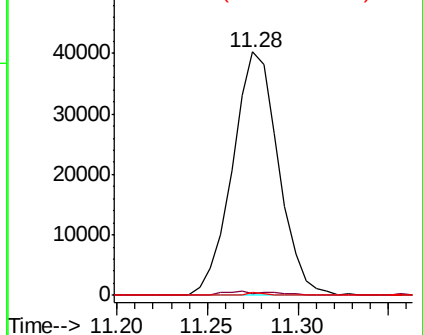
56 1.1 81.2 121.8#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNO

Ion 56.00 (55.70 to 56.70): BNO



#36

1,2,4,5-Tetrachlorobenzene

Concen: 62.559 ng/ul

RT: 12.50 min Scan# 1617

Delta R.T. 0.01 min

Lab File: BN002294.D

Acq: 10 Aug 2018 19:35

Tgt Ion:216 Resp: 1072196

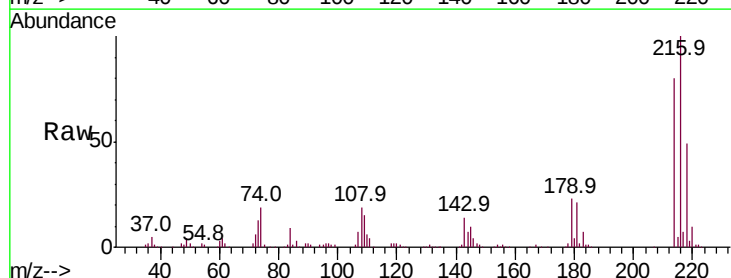
Ion Ratio Lower Upper

216 100

214 79.7 62.5 93.7

179 22.6 18.2 27.2

108 18.6 14.2 21.2

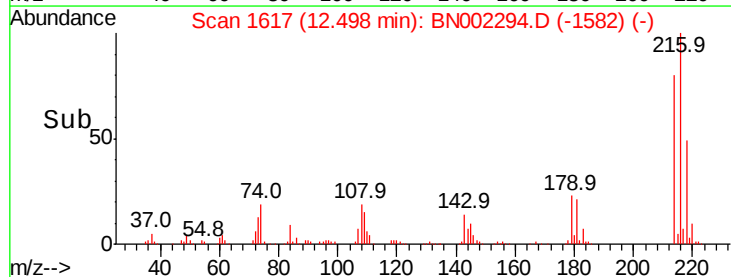
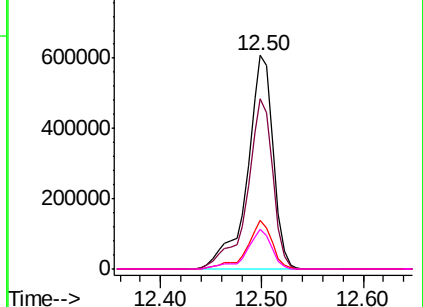


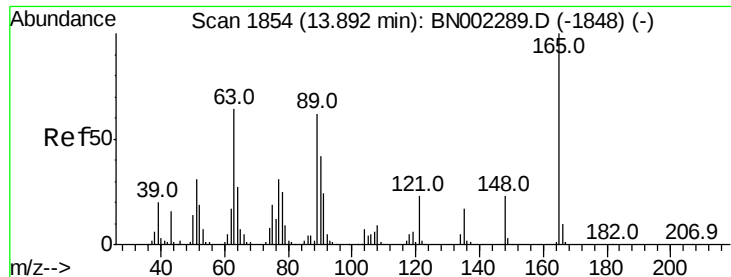
Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E

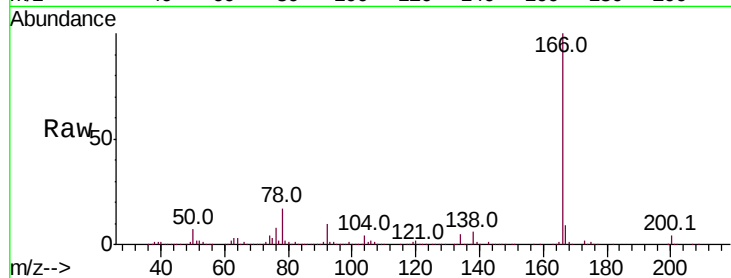




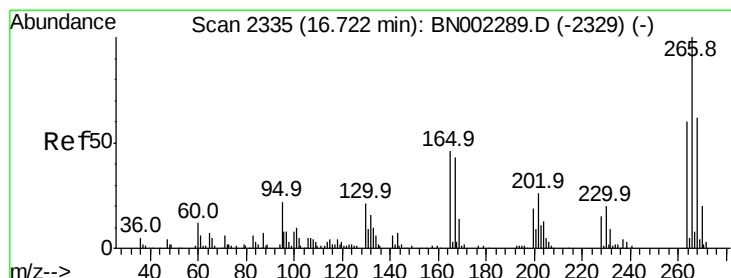
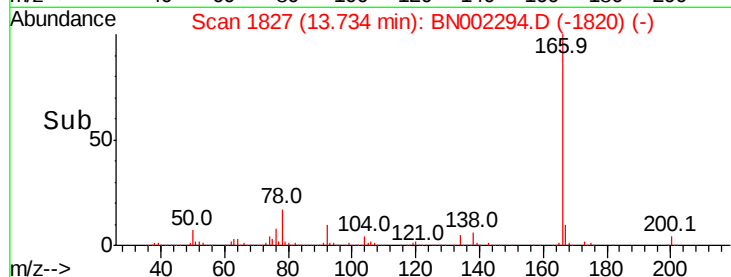
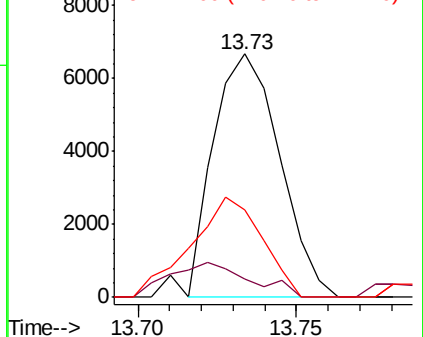
#45  
 2,6-Dinitrotoluene  
 Concen: 1.045 ng/ul  
 RT: 13.73 min Scan# 1827  
 Delta R.T. -0.16 min  
 Lab File: BN002294.D  
 Acq: 10 Aug 2018 19:35

Instrument :  
 BNA\_N  
 ClientSampleId :

Tot Ion:165 Resp: 9697  
 Ion Ratio Lower Upper  
 165 100  
 89 7.3 42.4 63.6#  
 121 36.0 16.6 24.8#

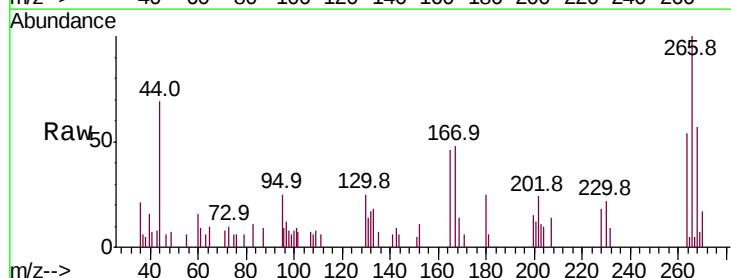


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 89.00 (88.70 to 89.70): BNO  
 Ion 121.00 (120.70 to 121.70): E

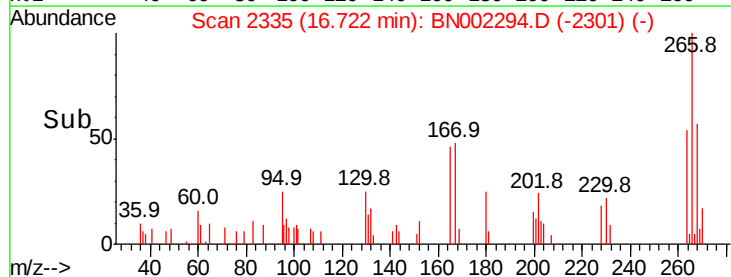
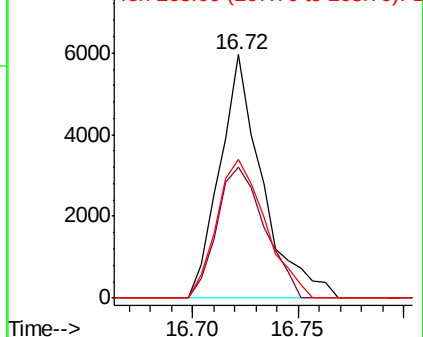


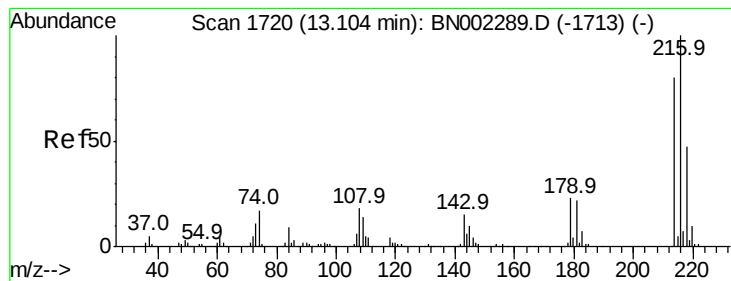
#68  
 Pentachlorophenol  
 Concen: 1.168 ng/ul  
 RT: 16.72 min Scan# 2335  
 Delta R.T. 0.00 min  
 Lab File: BN002294.D  
 Acq: 10 Aug 2018 19:35

Tgt Ion:266 Resp: 8357  
 Ion Ratio Lower Upper  
 266 100  
 264 54.0 50.5 75.7  
 268 56.7 50.9 76.3



Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 264.00 (263.70 to 264.70): E  
 Ion 268.00 (267.70 to 268.70): E





#72

1,2,3,4-Tetrachlorobenzene

Concen: 191.302 ng/uL

RT: 13.12 min Scan# 1722

Delta R.T. 0.01 min

Lab File: BN002294.D

Acq: 10 Aug 2018 19:35

Instrument :

BNA\_N

ClientSampled :

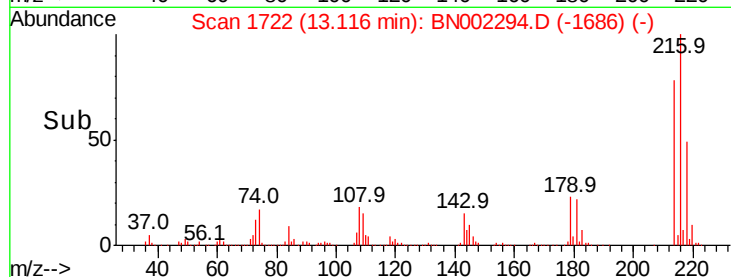
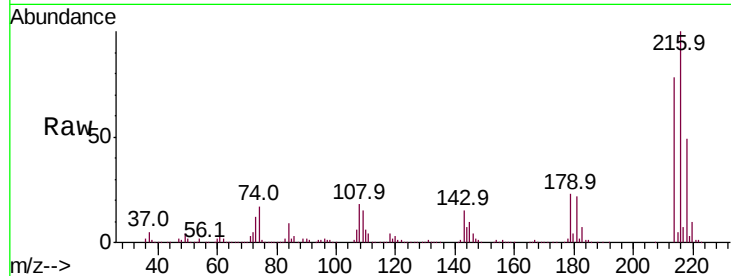
Tot Ion:216 Resp: 2946714

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 216 | 100   |       |       |
| 214 | 78.3  | 62.5  | 93.7  |
| 218 | 48.8  | 38.4  | 57.6  |

216 100

214 78.3 62.5 93.7

218 48.8 38.4 57.6

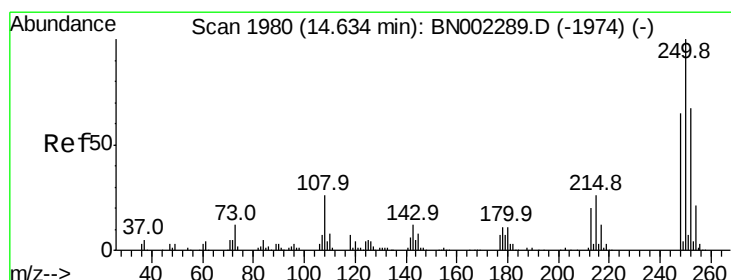
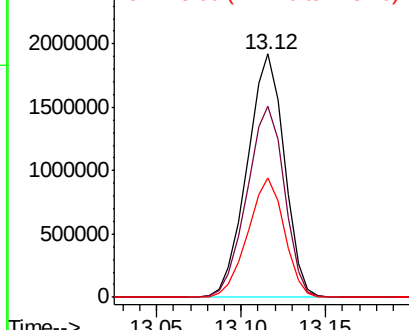


Abundance

Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 218.00 (217.70 to 218.70): E



#73

Pentachlorobenzene

Concen: 4.230 ng/uL

RT: 14.64 min Scan# 1981

Delta R.T. 0.01 min

Lab File: BN002294.D

Acq: 10 Aug 2018 19:35

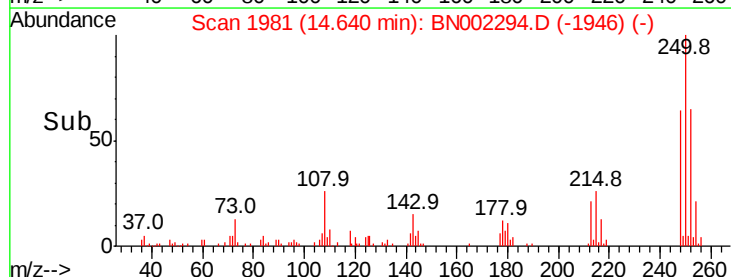
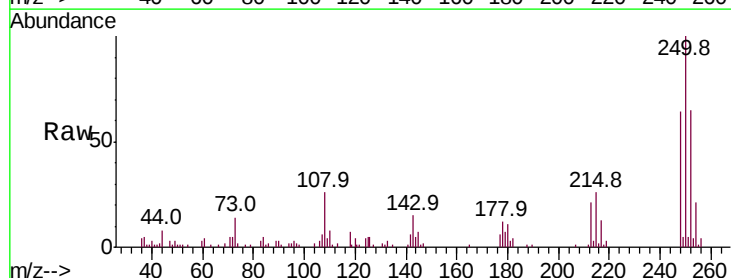
Tgt Ion:250 Resp: 60945

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 250 | 100   |       |       |
| 248 | 63.8  | 50.6  | 75.8  |
| 252 | 64.8  | 51.4  | 77.0  |

250 100

248 63.8 50.6 75.8

252 64.8 51.4 77.0



Abundance

Ion 250.00 (249.70 to 250.70): E

Ion 248.00 (247.70 to 248.70): E

Ion 252.00 (251.70 to 252.70): E

