

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN071118\  
 Data File : BN002013.D  
 Acq On : 11 Jul 2018 16:36  
 Operator : JU/SJ  
 Sample : J3775-15MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DAZQ2MSD

Manual Integrations  
 APPROVED

Sohil  
 7/12/2018 3:03:49 PM

Quant Time: Jul 12 01:13:06 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN061918.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jul 11 22:41:21 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.71  | 152  | 578586   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.49 | 136  | 2646377  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.34 | 164  | 1528778  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.09 | 188  | 3268306  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.29 | 240  | 2474864  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.53 | 264  | 2156308  | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.27  | 96  | 81271m  | 6.10  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.89  | 99  | 1969569 | 37.62 | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.05  | 67  | 1212433 | 37.53 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.25  | 132 | 1597505 | 38.48 | ng/ul | 0.01 |
| 13) 4-Methylphenol-d8          | 8.42  | 113 | 1513357 | 36.08 | ng/ul | 0.01 |
| 19) Nitrobenzene-d5            | 8.86  | 128 | 822384  | 41.84 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.58  | 143 | 948922  | 46.65 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.11 | 165 | 1644623 | 37.87 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.62 | 131 | 872802  | 19.41 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.76 | 166 | 4904792 | 37.99 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.03 | 160 | 6277245 | 39.38 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.56 | 143 | 811454  | 34.12 | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.34 | 176 | 4333419 | 38.30 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 647097  | 36.35 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.19 | 188 | 6373404 | 40.36 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.49 | 212 | 6263798 | 50.21 | ng/ul | 0.01 |
| 87) Benzo(a)pyrene-d12         | 23.39 | 264 | 4722506 | 40.27 | ng/ul | 0.02 |

## Target Compounds

|                                |       |     |         |        | Ovalue |     |
|--------------------------------|-------|-----|---------|--------|--------|-----|
| 6) Phenol                      | 6.92  | 94  | 2168560 | 41.069 | ng/ul  | 99  |
| 10) 2-Chlorophenol             | 7.28  | 128 | 1627853 | 38.740 | ng/ul  | 98  |
| 15) N-Nitroso-di-n-propylamine | 8.52  | 70  | 1367135 | 41.153 | ng/ul  | 93  |
| 33) 4-Chloro-3-methylphenol    | 11.78 | 107 | 1885245 | 40.542 | ng/ul  | 97  |
| 44) Dimethylphthalate          | 13.80 | 163 | 1428857 | 11.261 | ng/ul  | 98  |
| 49) Acenaphthene               | 14.40 | 153 | 4315560 | 40.440 | ng/ul  | 98  |
| 52) 4-Nitrophenol              | 14.57 | 109 | 640373  | 36.210 | ng/ul# | 70  |
| 54) 2,4-Dinitrotoluene         | 14.72 | 165 | 1590039 | 44.637 | ng/ul  | 94  |
| 68) Pentachlorophenol          | 16.75 | 266 | 904424  | 40.903 | ng/ul  | 99  |
| 69) Phenanthrene               | 17.13 | 178 | 407884  | 2.215  | ng/ul  | 98  |
| 73) Di-n-butylphthalate        | 18.06 | 149 | 649971  | 3.297  | ng/ul  | 100 |
| 74) Fluoranthene               | 19.15 | 202 | 1106155 | 5.716  | ng/ul# | 90  |
| 77) Pyrene                     | 19.52 | 202 | 8842346 | 57.093 | ng/ul# | 85  |
| 78) Butylbenzylphthalate       | 20.43 | 149 | 428652  | 6.486  | ng/ul  | 90  |
| 80) Benzo(a)anthracene         | 21.27 | 228 | 527907  | 3.375  | ng/ul# | 91  |
| 81) Bis(2-ethylhexyl)phthalate | 21.22 | 149 | 2358603 | 23.933 | ng/ul  | 98  |
| 82) Chrysene                   | 21.32 | 228 | 681036  | 4.680  | ng/ul# | 95  |
| 85) Benzo(b)fluoranthene       | 22.86 | 252 | 977982  | 7.181  | ng/ul# | 84  |
| 86) Benzo(k)fluoranthene       | 22.90 | 252 | 308484m | 2.336  | ng/ul  |     |
| 88) Benzo(a)pyrene             | 23.43 | 252 | 553401  | 4.348  | ng/ul# | 83  |
| 89) Indeno(1,2,3-cd)pyrene     | 25.77 | 276 | 497268  | 3.672  | ng/ul# | 83  |
| 90) Dibenzo(a,h)anthracene     | 25.77 | 278 | 129902  | 1.153  | ng/ul# | 57  |
| 91) Benzo(g,h,i)perylene       | 26.46 | 276 | 603975  | 5.407  | ng/ul# | 87  |

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Sample : J3775-15MSD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DAZQ2MSD

Manual Integrations  
APPROVED

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Quant Time: Jul 12 01:13:06 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN061918.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jul 11 22:41:21 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| ----- |  |  |  |  |  |  |
| ----- |  |  |  |  |  |  |

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

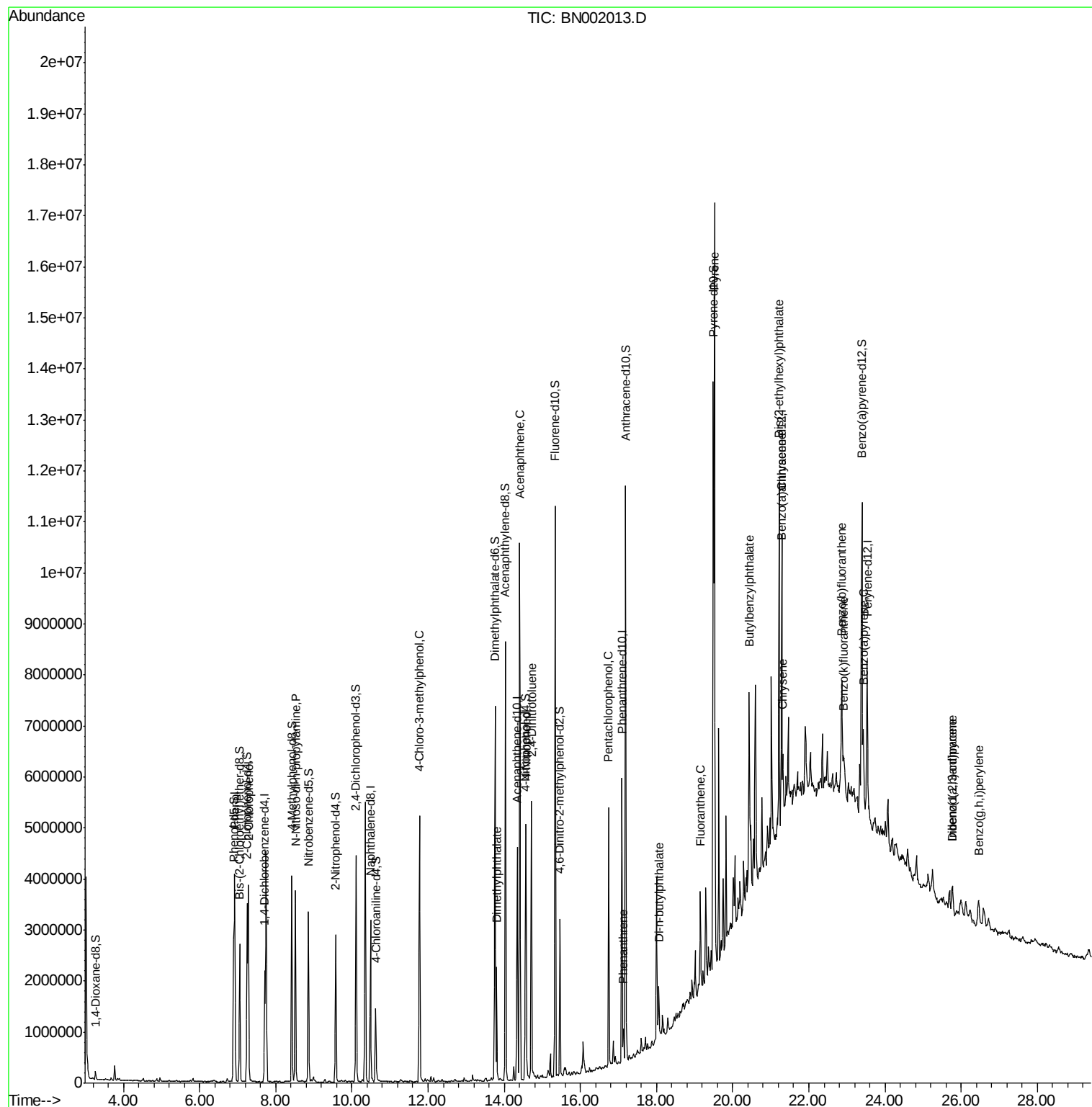
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN071118\  
Data File : BN002013.D  
Acq On : 11 Jul 2018 16:36  
Operator : JU/SJ  
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Misc :  
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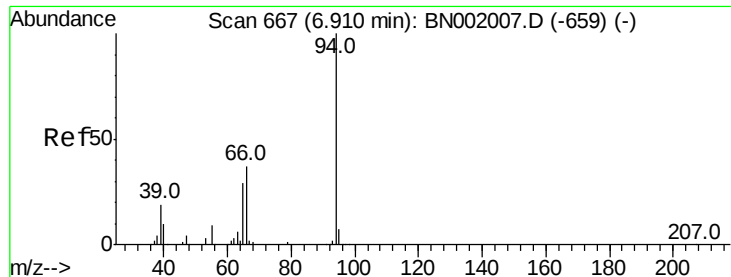
Instrument :  
BNA\_N  
ClientSampleId :  
DAZQ2MSD

Quant Time: Jul 12 01:13:06 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN061918.M  
Quant Title : SVOA CALIBRATION  
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#6

Phenol

Concen: 41.069 ng/ul

RT: 6.92 min Scan# 669

Delta R.T. 0.01 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

Instrument :

BNA\_N

ClientSampleId :

DAZQ2MSD

Tot Ion: 94 Resp: 2168560

Ion Ratio Lower Upper

94 100

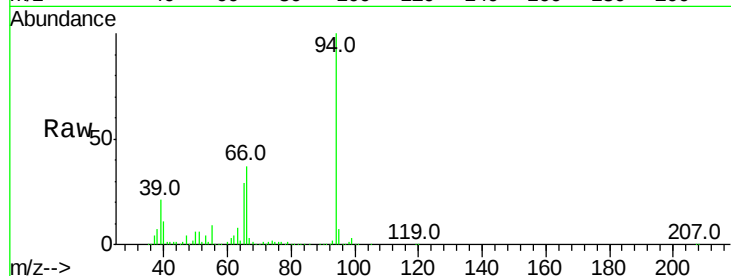
65 29.2 23.0 34.6

66 36.8 30.4 45.6

Manual Integrations  
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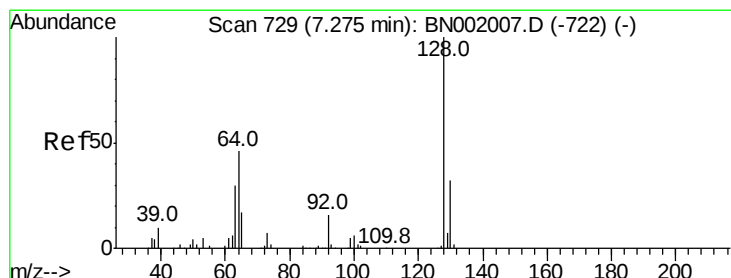
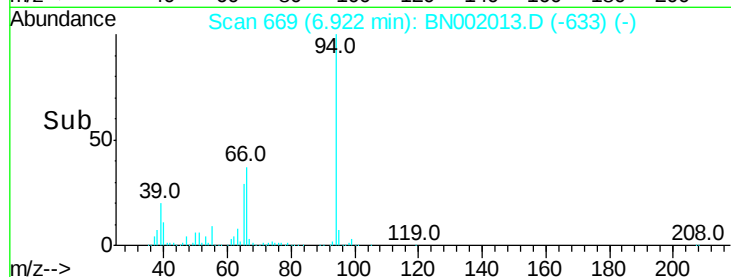
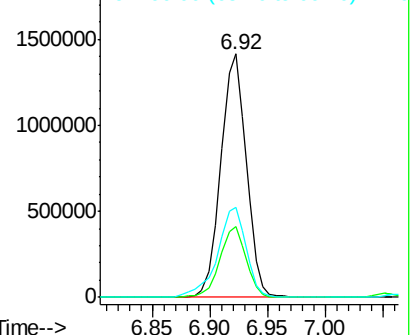
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Abundance Ion 94.00 (93.70 to 94.70): BN002007.D (-659) (-)

Ion 65.00 (64.70 to 65.70): BN002007.D (-659) (-)

Ion 66.00 (65.70 to 66.70): BN002007.D (-659) (-)



#10

2-Chlorophenol

Concen: 38.740 ng/ul

RT: 7.28 min Scan# 730

Delta R.T. 0.01 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

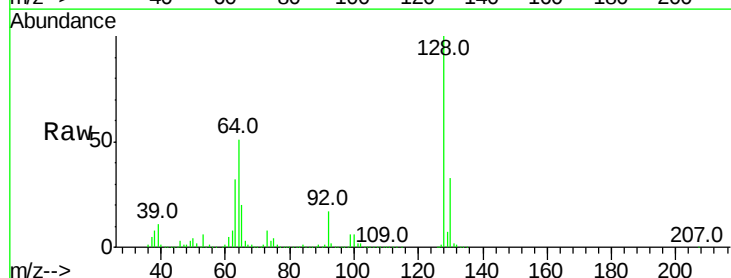
Tgt Ion:128 Resp: 1627853

Ion Ratio Lower Upper

128 100

64 51.3 39.8 59.6

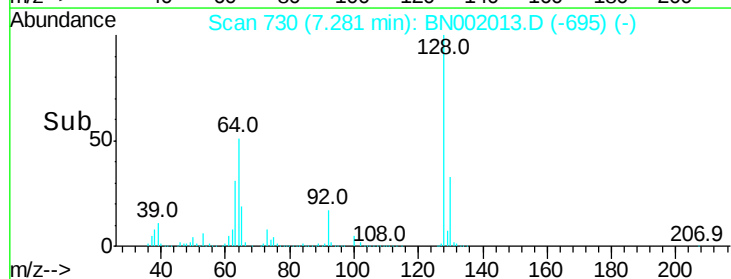
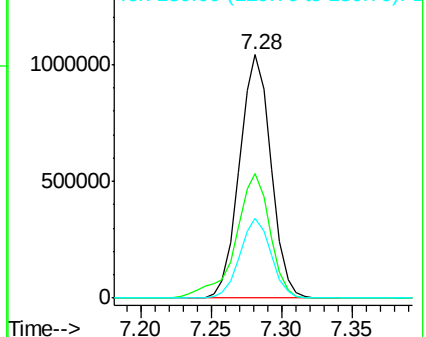
130 32.6 25.8 38.8

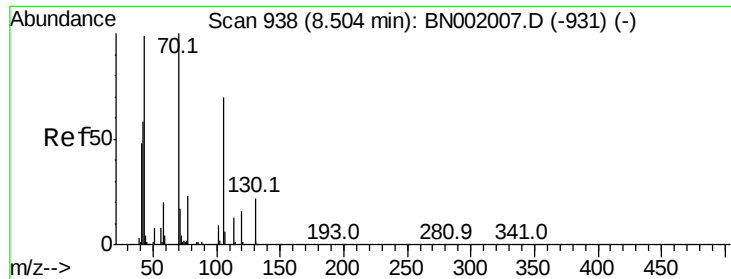


Abundance Ion 128.00 (127.70 to 128.70): BN002007.D (-722) (-)

Ion 64.00 (63.70 to 64.70): BN002007.D (-722) (-)

Ion 130.00 (129.70 to 130.70): BN002007.D (-722) (-)





#15

N-Nitroso-di-n-propylamine

Concen: 41.153 ng/ul

RT: 8.52 min Scan# 940

Delta R.T. 0.01 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

Instrument :

BNA\_N

ClientSampleId :

DAZQ2MSD

Tot Ion: 70 Resp: 1367135

Ion Ratio Lower Upper

70 100

42 58.0 40.2 60.4

101 10.0 7.7 11.5

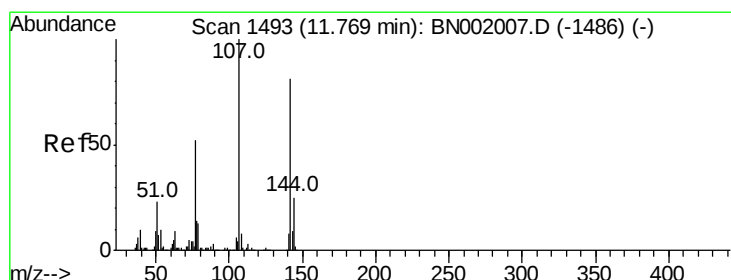
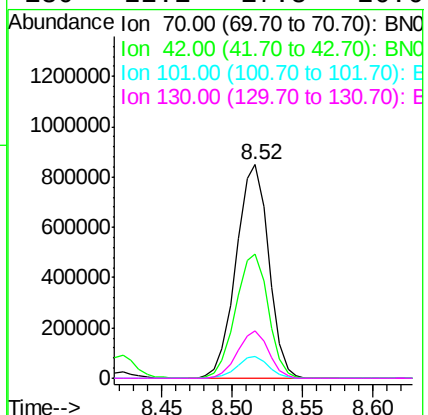
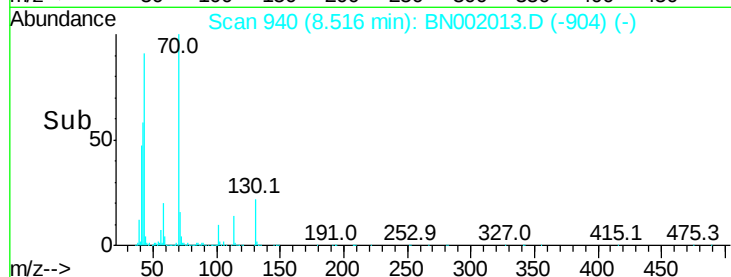
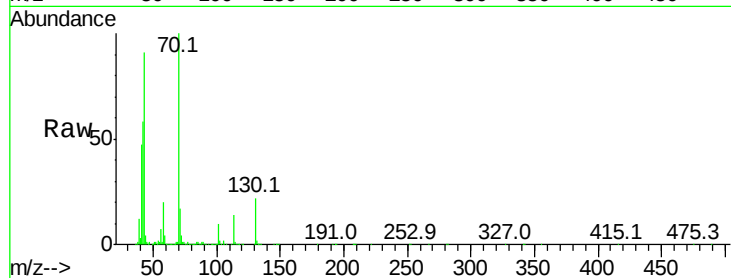
130 22.1 17.8 26.6

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#33

4-Chloro-3-methylphenol

Concen: 40.542 ng/ul

RT: 11.78 min Scan# 1494

Delta R.T. 0.01 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

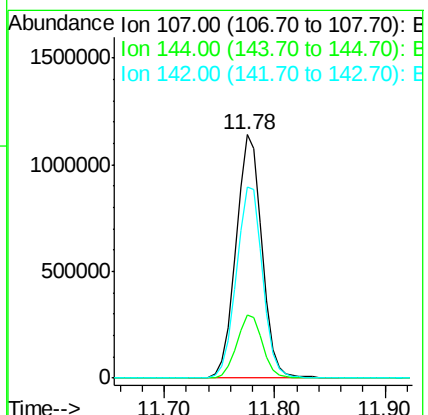
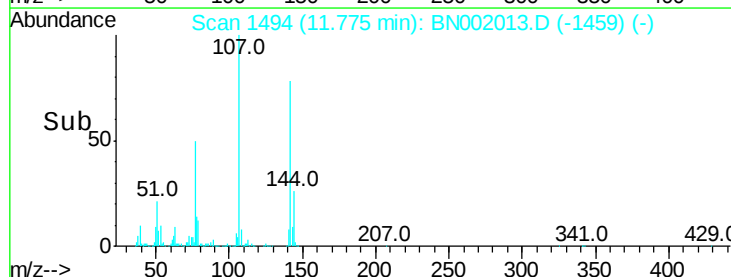
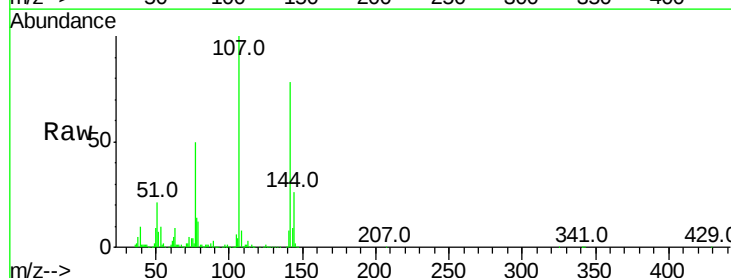
Tgt Ion: 107 Resp: 1885245

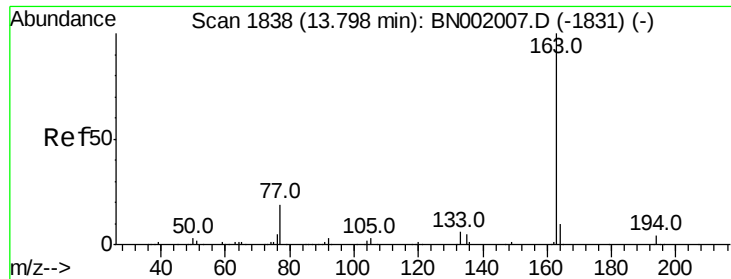
Ion Ratio Lower Upper

107 100

144 25.8 21.1 31.7

142 78.5 60.1 90.1





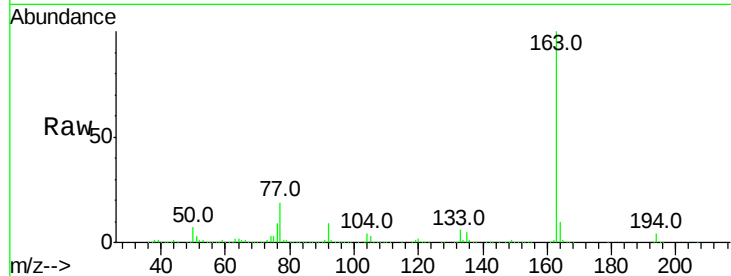
#44  
Dimethylphthalate  
Concen: 11.261 ng/ul  
RT: 13.80 min Scan# 1839  
Delta R.T. 0.01 min  
Lab File: BN002013.D  
Acq: 11 Jul 2018 16:36

Instrument :  
BNA\_N  
ClientSampled :  
DAZQ2MSD

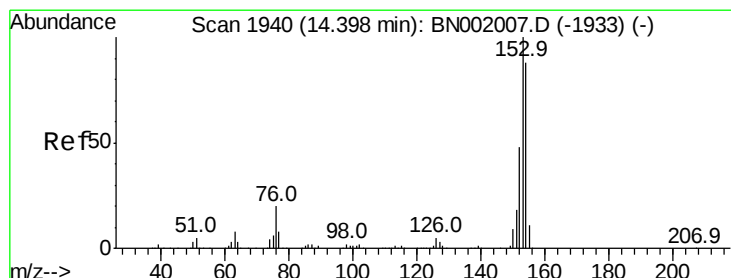
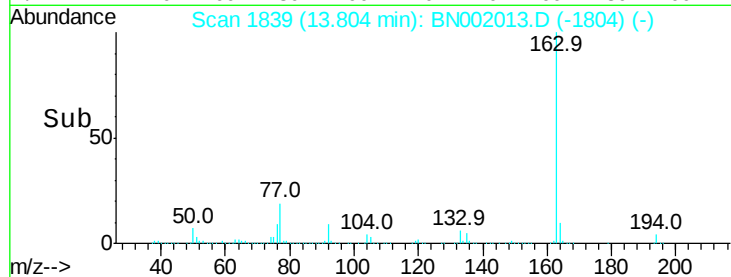
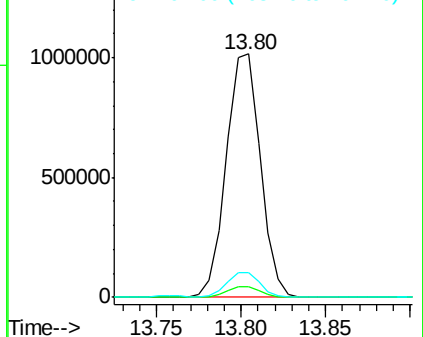
Tot Ion:163 Resp: 1428857  
Ion Ratio Lower Upper  
163 100  
194 4.2 4.0 6.0  
164 10.1 8.4 12.6

Manual Integrations  
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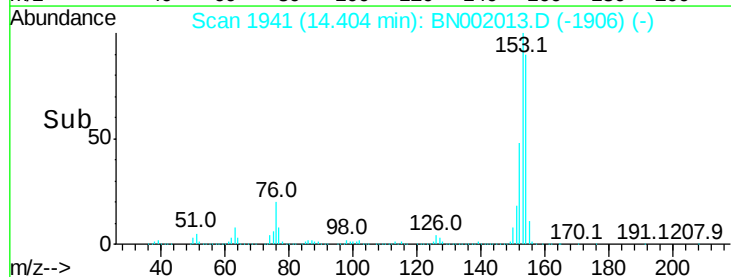
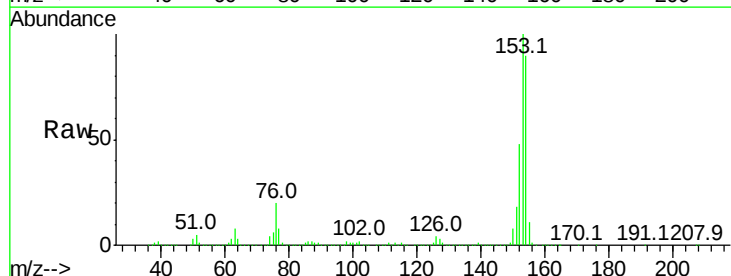
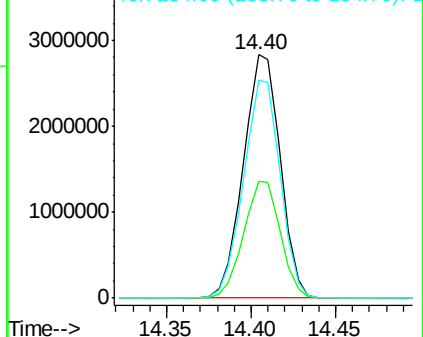
Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

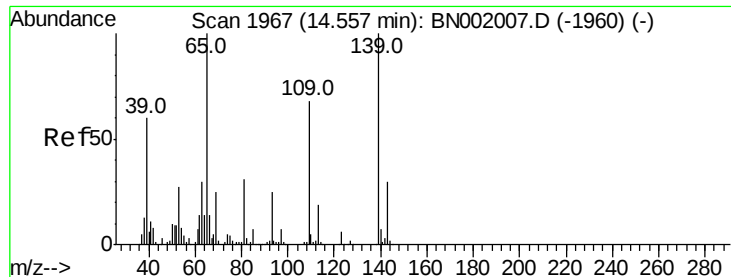


#49  
Acenaphthene  
Concen: 40.440 ng/ul  
RT: 14.40 min Scan# 1941  
Delta R.T. 0.01 min  
Lab File: BN002013.D  
Acq: 11 Jul 2018 16:36

Tgt Ion:153 Resp: 4315560  
Ion Ratio Lower Upper  
153 100  
152 47.8 37.9 56.9  
154 89.8 69.8 104.6

Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E





#52

4-Nitrophenol

Concen: 36.210 ng/ul

RT: 14.57 min Scan# 1970

Delta R.T. 0.02 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

Instrument :

BNA\_N

ClientSampleId :

DAZQ2MSD

Tot Ion:109 Resp: 640373

Ion Ratio Lower Upper

109 100

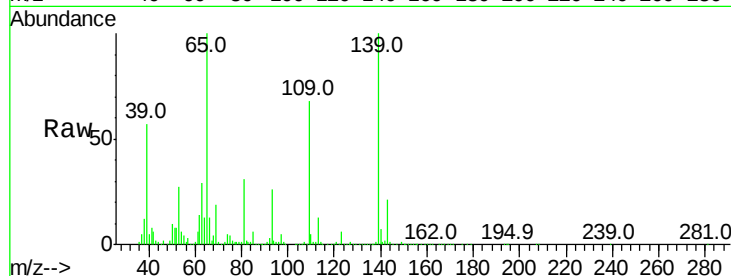
139 147.4 91.2 136.8#

65 146.9 92.6 139.0#

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Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BNC

800000

600000

400000

200000

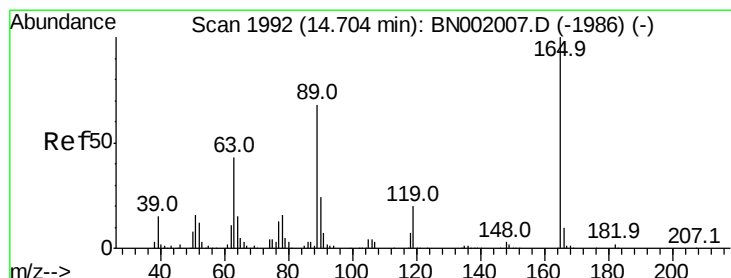
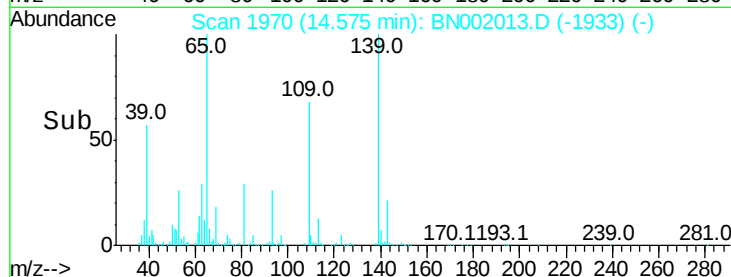
0

14.57

14.50

14.60

Time-->



#54

2,4-Dinitrotoluene

Concen: 44.637 ng/ul

RT: 14.72 min Scan# 1994

Delta R.T. 0.01 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

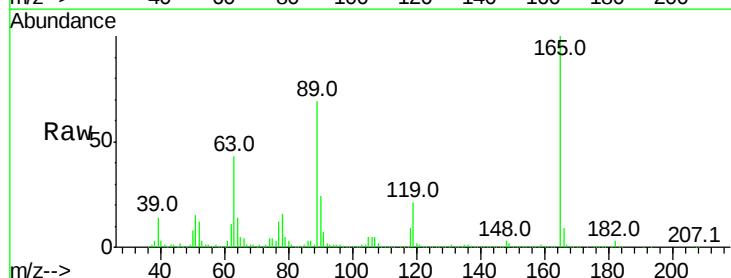
Tgt Ion:165 Resp: 1590039

Ion Ratio Lower Upper

165 100

63 42.9 31.4 47.0

182 2.9 2.7 4.1



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BNC

Ion 182.00 (181.70 to 182.70): E

1500000

1000000

500000

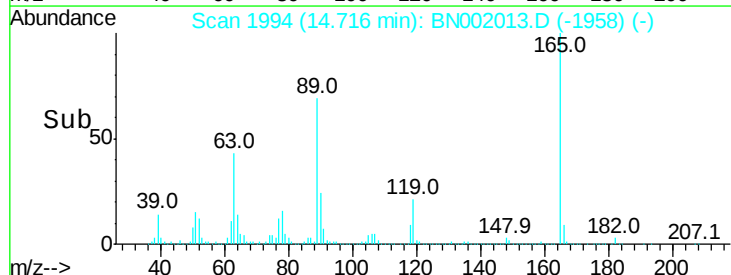
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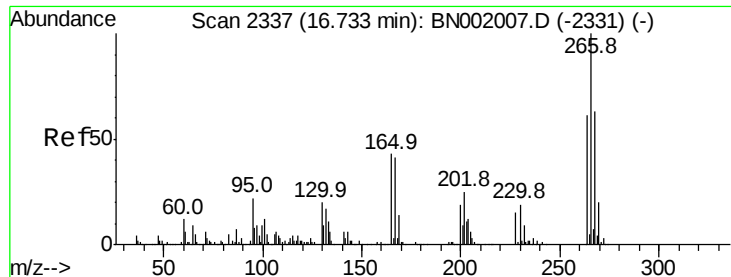
14.72

14.65

14.75

Time-->





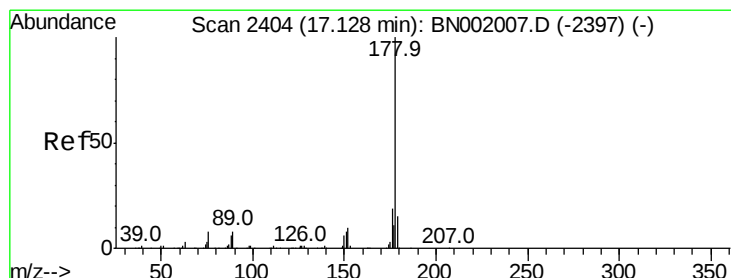
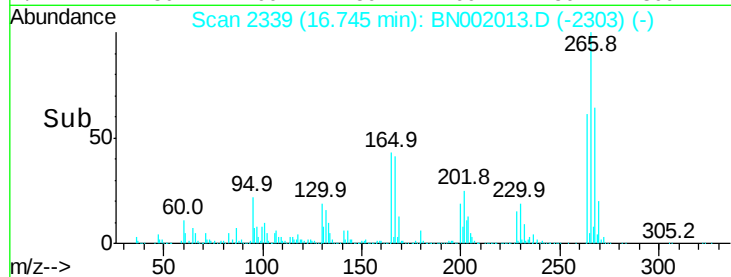
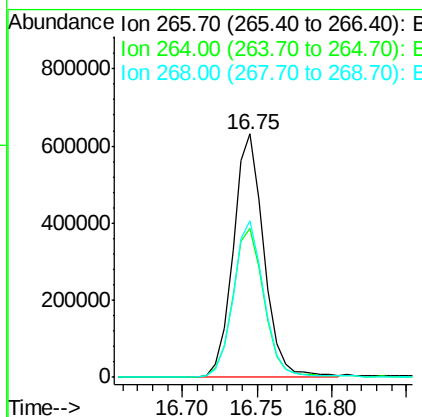
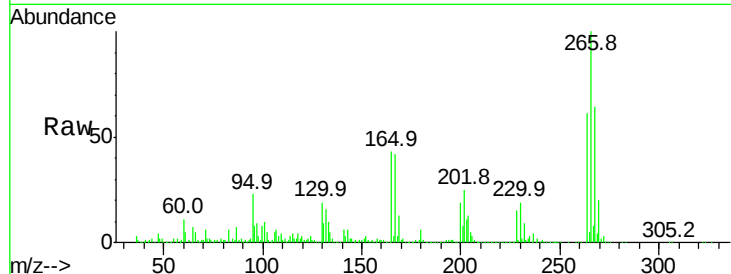
#68  
 Pentachlorophenol  
 Concen: 40.903 ng/ul  
 RT: 16.75 min Scan# 2339  
 Delta R.T. 0.01 min  
 Lab File: BN002013.D  
 Acq: 11 Jul 2018 16:36

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DAZQ2MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 266     | 100   | 904424 |       |       |
| 264     | 61.0  |        | 48.2  | 72.4  |
| 268     | 64.3  |        | 52.3  | 78.5  |

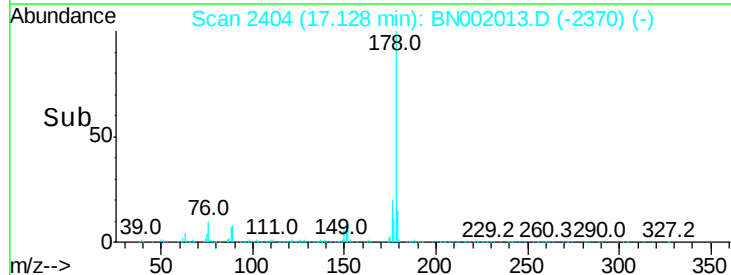
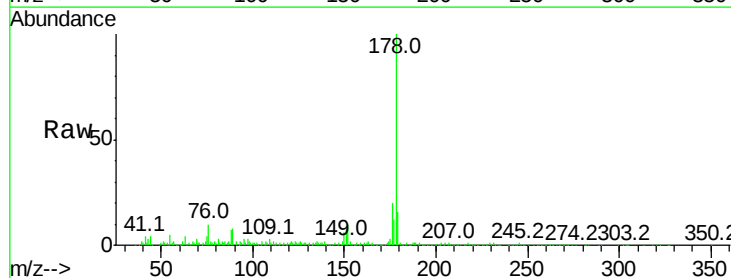
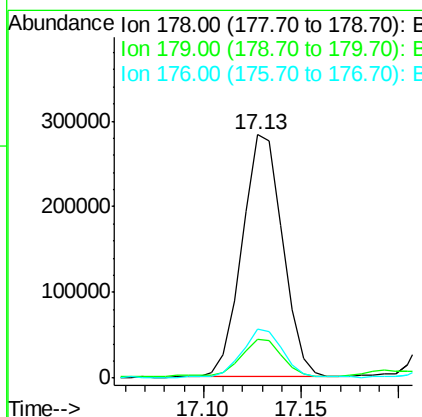
Manual Integrations  
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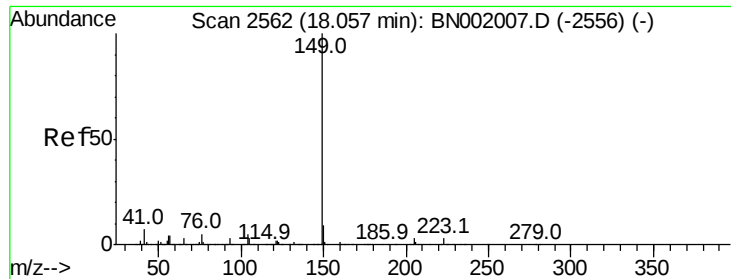
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#69  
 Phenanthrene  
 Concen: 2.215 ng/ul  
 RT: 17.13 min Scan# 2404  
 Delta R.T. 0.00 min  
 Lab File: BN002013.D  
 Acq: 11 Jul 2018 16:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 407884 |       |       |
| 179     | 15.8  |        | 12.3  | 18.5  |
| 176     | 20.2  |        | 15.4  | 23.0  |





#73

Di-n-butylphthalate

Concen: 3.297 ng/ul

RT: 18.06 min Scan# 2563

Delta R.T. 0.01 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

Instrument :

BNA\_N

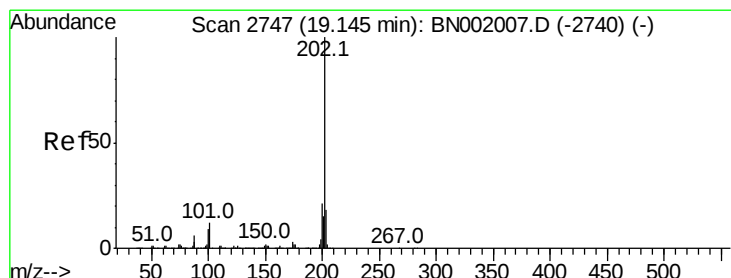
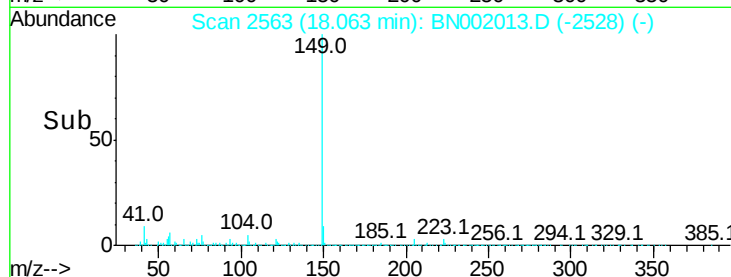
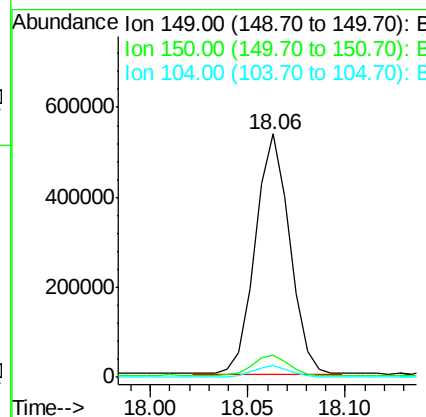
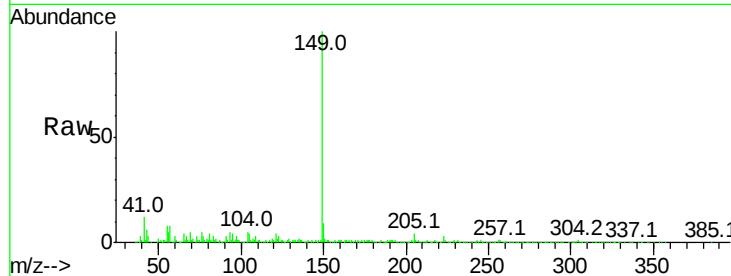
ClientSampleId :

DAZQ2MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 649971 |       |       |
| 150     | 9.4   | 7.5    | 11.3  |       |
| 104     | 4.9   | 4.1    | 6.1   |       |

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#74

Fluoranthene

Concen: 5.716 ng/ul

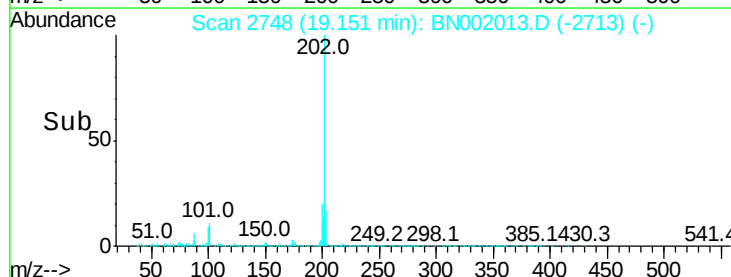
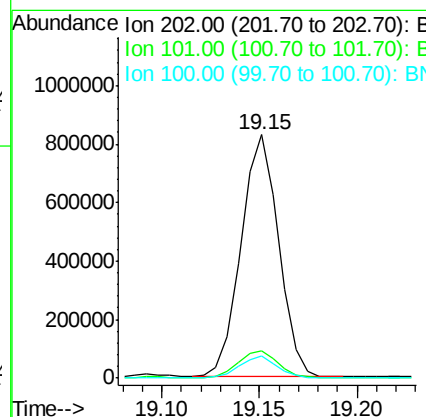
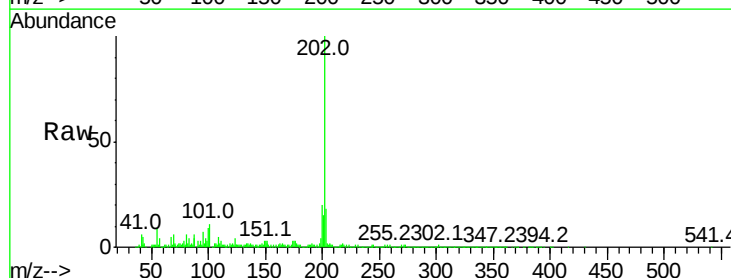
RT: 19.15 min Scan# 2748

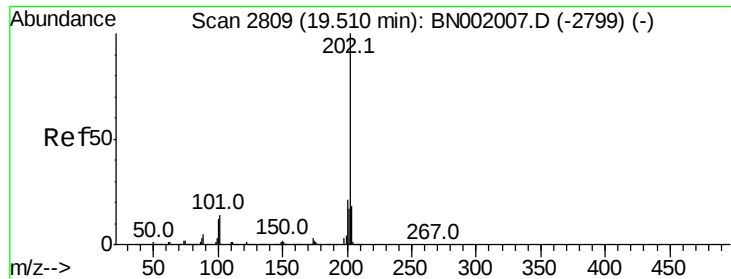
Delta R.T. 0.01 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 202     | 100   | 1106155 |       |       |
| 101     | 11.4  | 6.1     | 9.1#  |       |
| 100     | 9.1   | 4.6     | 7.0#  |       |





#77

Pvrene

Concen: 57.093 ng/ul

RT: 19.52 min Scan# 2811

Delta R.T. 0.01 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

Instrument :

BNA\_N

ClientSampleId :

DAZQ2MSD

Tot Ion:202 Resp: 8842346

Ion Ratio Lower Upper

202 100

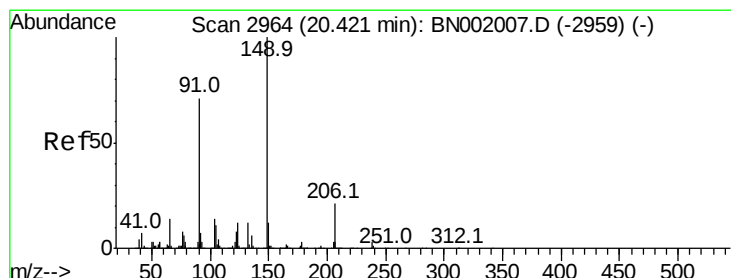
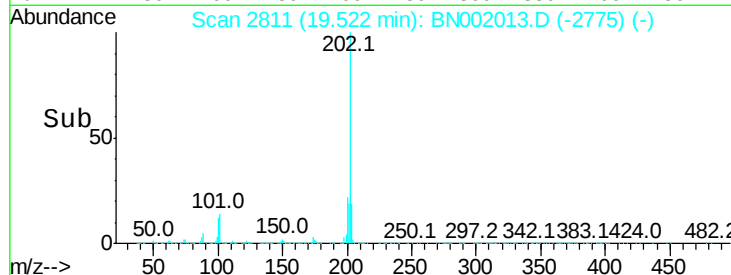
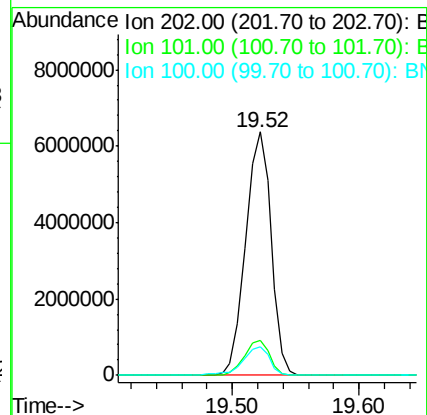
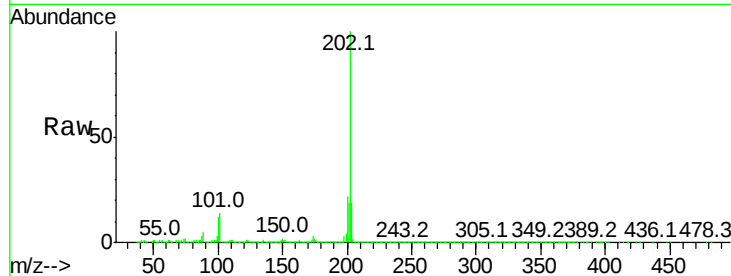
101 14.3 6.9 10.3#

100 11.9 5.6 8.4#

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#78

Butylbenzylphthalate

Concen: 6.486 ng/ul

RT: 20.43 min Scan# 2965

Delta R.T. 0.01 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

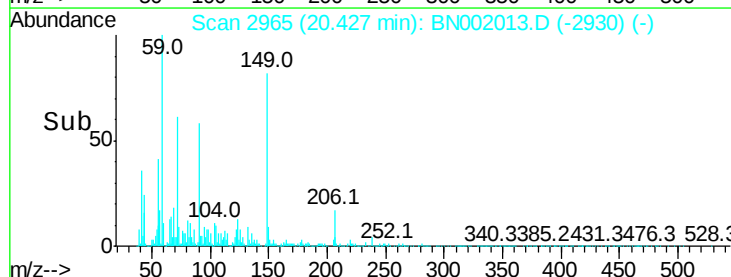
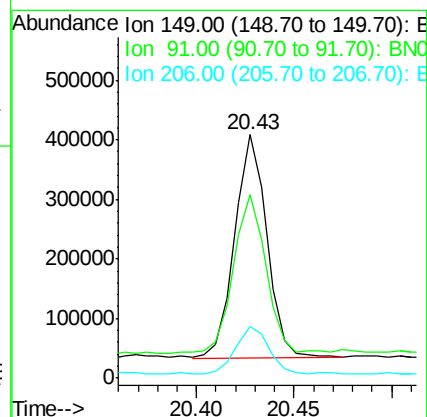
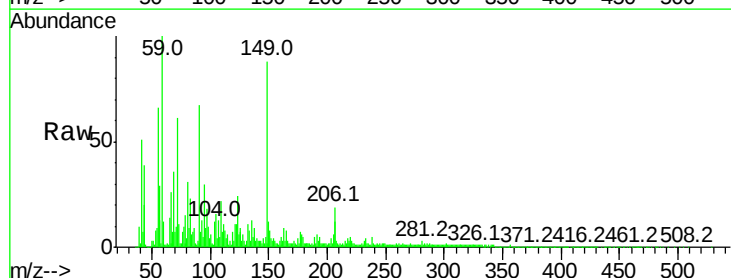
Tgt Ion:149 Resp: 428652

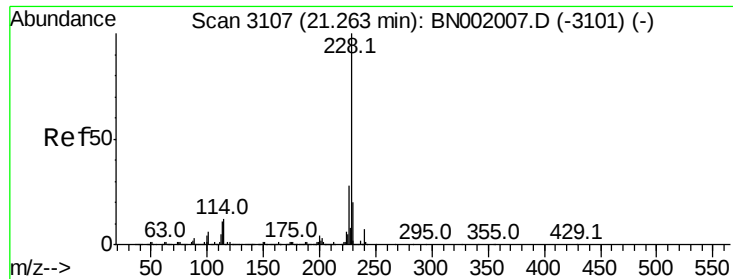
Ion Ratio Lower Upper

149 100

91 75.6 53.4 80.0

206 21.1 19.3 28.9





#80

Benzo(a)anthracene

Concen: 3.375 ng/ul

RT: 21.27 min Scan# 3109

Delta R.T. 0.01 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

Instrument :

BNA\_N

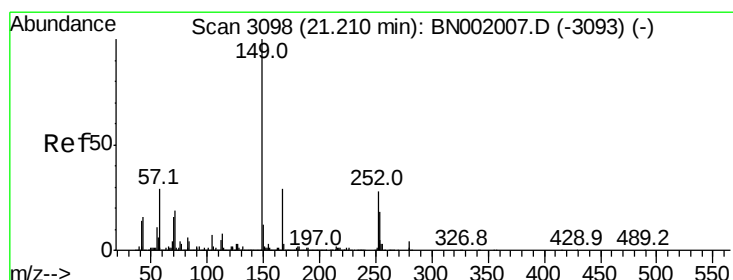
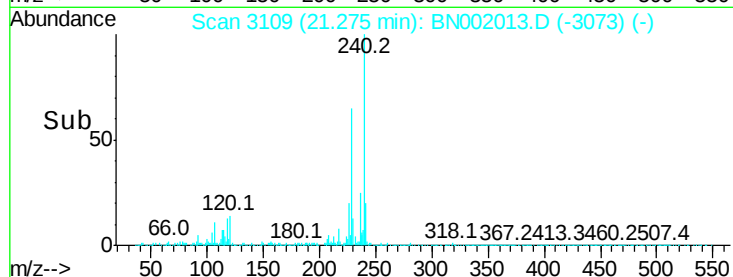
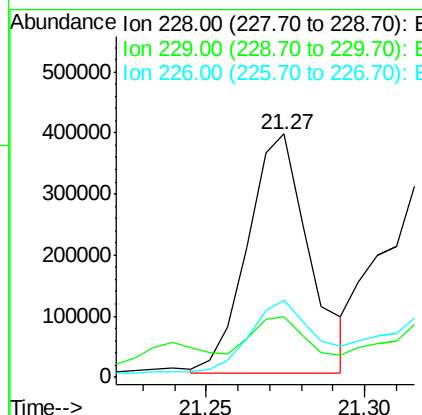
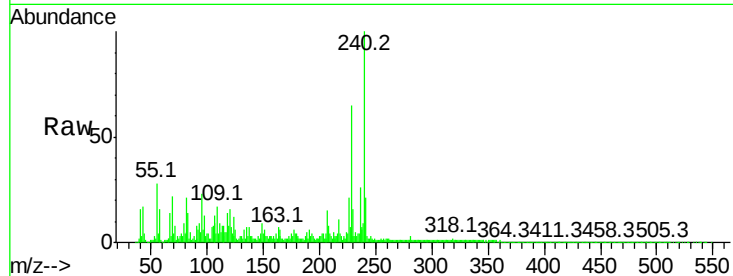
ClientSampleId :

DAZQ2MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 527907 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 24.8  | 16.0  | 24.0#  |
| 226       | 31.5  | 21.8  | 32.8   |

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#81

Bis(2-ethylhexyl)phthalate

Concen: 23.933 ng/ul

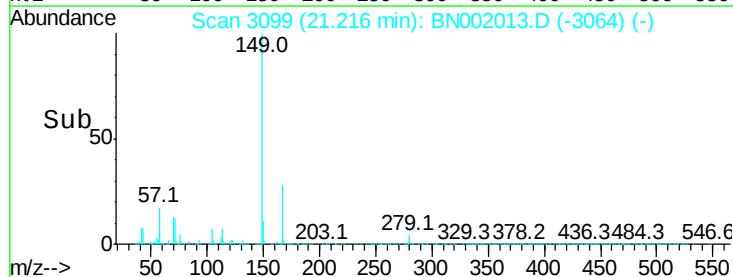
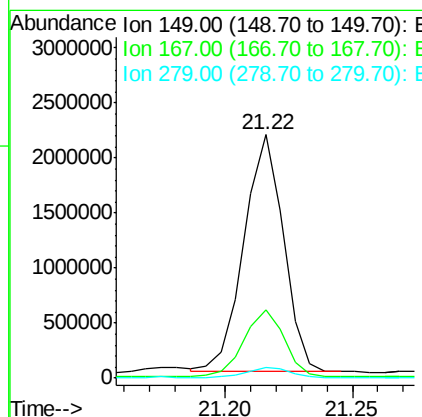
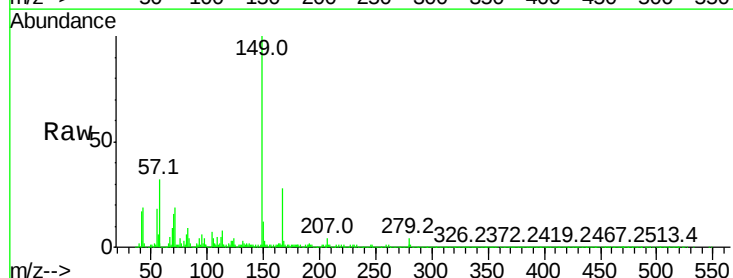
RT: 21.22 min Scan# 3099

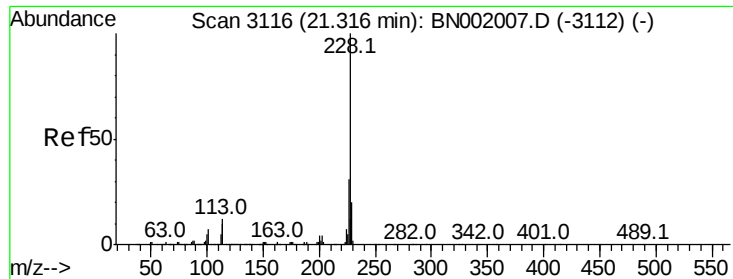
Delta R.T. 0.01 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 149   | Resp: | 2358603 |
| Ion Ratio | Lower | Upper |         |
| 149       | 100   |       |         |
| 167       | 28.1  | 23.0  | 34.6    |
| 279       | 4.5   | 4.3   | 6.5     |





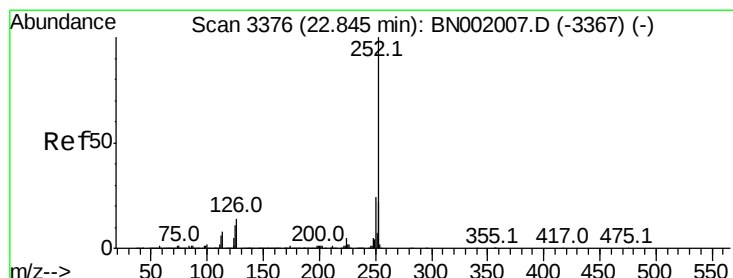
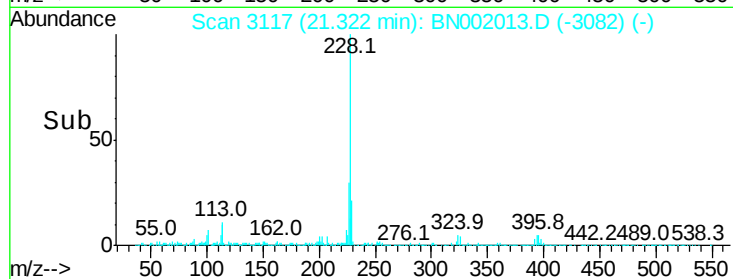
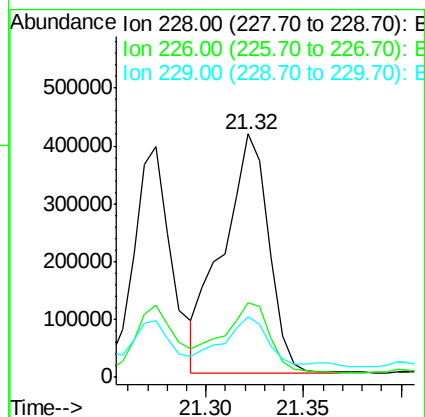
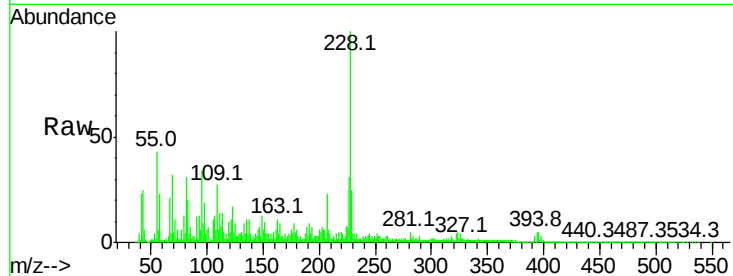
#82  
Chrysene  
Concen: 4.680 ng/uL  
RT: 21.32 min Scan# 3117  
Delta R.T. 0.01 min  
Lab File: BN002013.D  
Acq: 11 Jul 2018 16:36

Instrument :  
BNA\_N  
ClientSampleID :  
DAZQ2MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.8  | 24.1  | 36.1  |
| 229     | 24.8  | 16.0  | 24.0  |

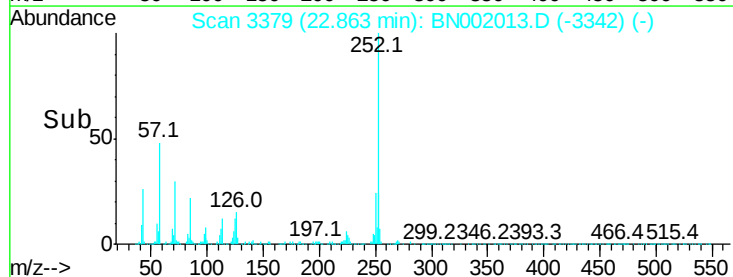
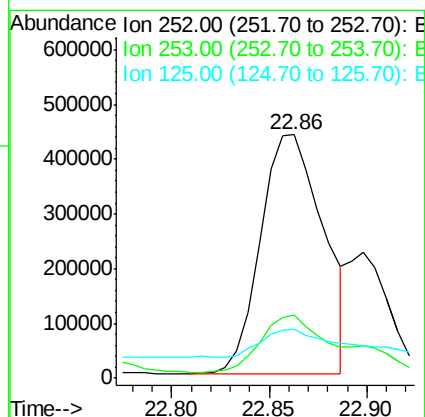
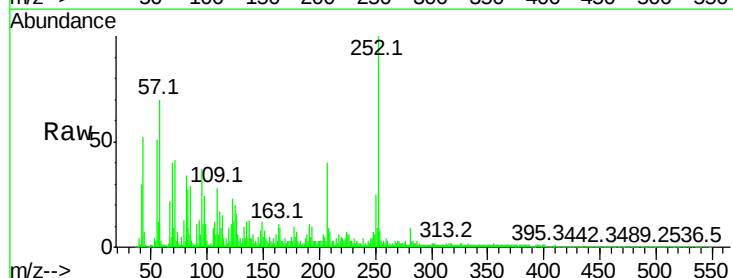
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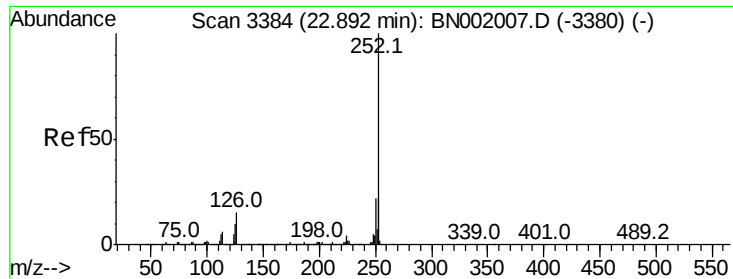
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#85  
Benzo(b)fluoranthene  
Concen: 7.181 ng/uL  
RT: 22.86 min Scan# 3379  
Delta R.T. 0.02 min  
Lab File: BN002013.D  
Acq: 11 Jul 2018 16:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.7  | 17.4  | 26.0  |
| 125     | 20.1  | 4.9   | 7.3   |





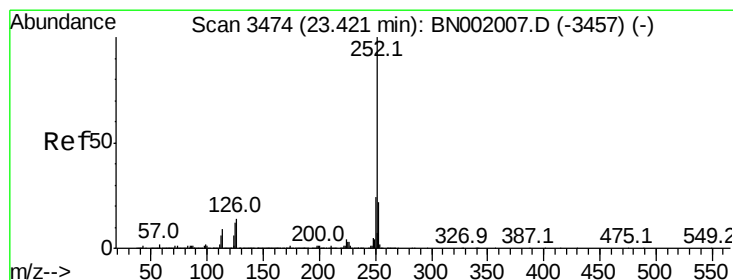
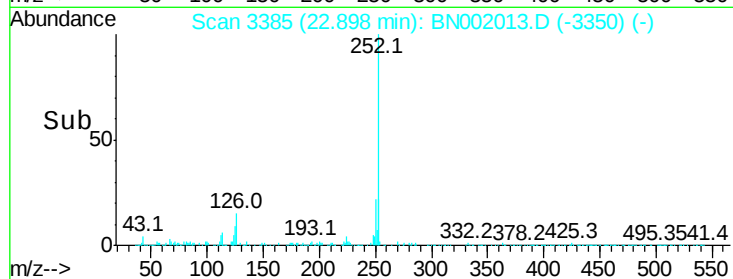
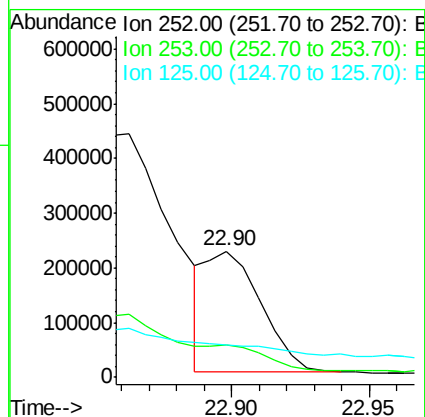
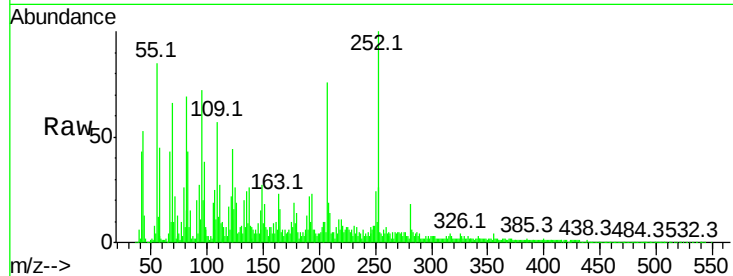
#86  
Benzo(k)fluoranthene  
Concen: 2.336 ng/ul m  
RT: 22.90 min Scan# 3385  
Delta R.T. 0.01 min  
Lab File: BN002013.D  
Acq: 11 Jul 2018 16:36

Instrument :  
BNA\_N  
ClientSampleId :  
DAZQ2MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.7  | 17.1  | 25.7# |
| 125     | 26.0  | 5.4   | 8.0#  |

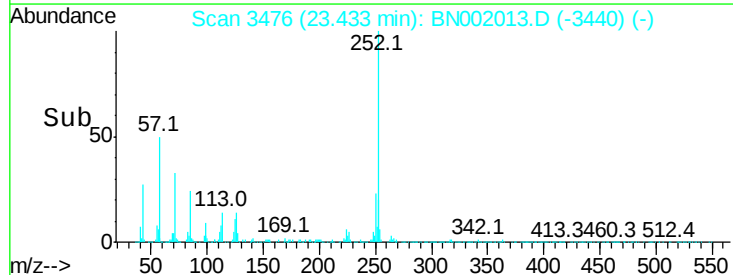
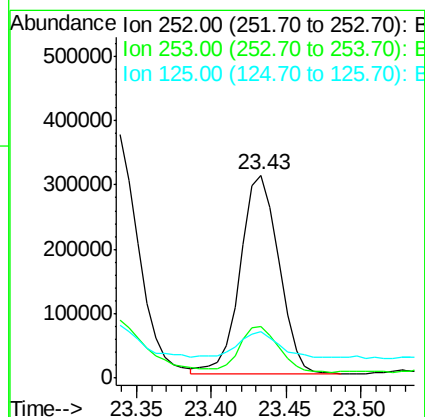
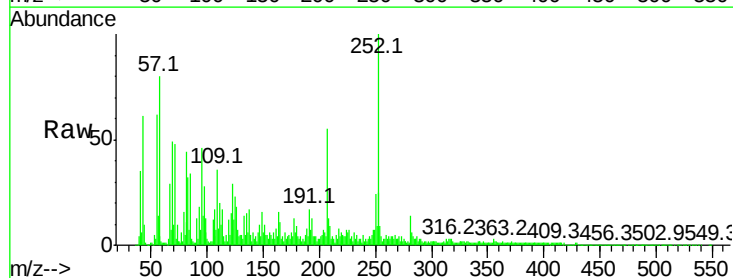
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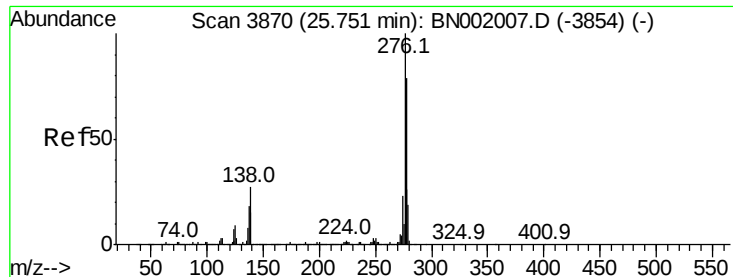
Sohil  
7/12/2018 3:03:49 PM



#88  
Benzo(a)pyrene  
Concen: 4.348 ng/ul  
RT: 23.43 min Scan# 3476  
Delta R.T. 0.01 min  
Lab File: BN002013.D  
Acq: 11 Jul 2018 16:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.4  | 17.2  | 25.8  |
| 125     | 22.8  | 5.8   | 8.6#  |





#89

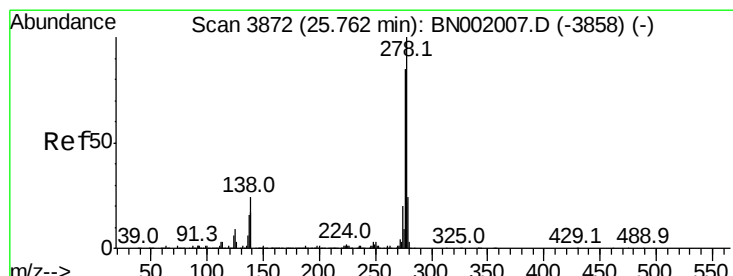
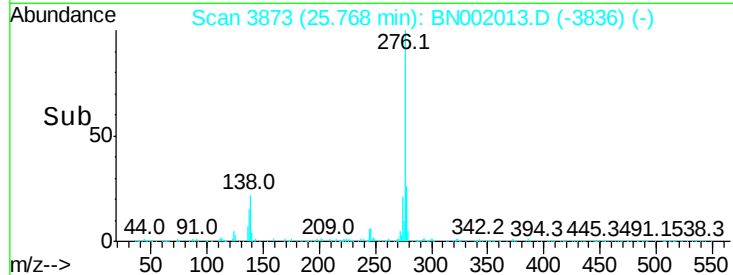
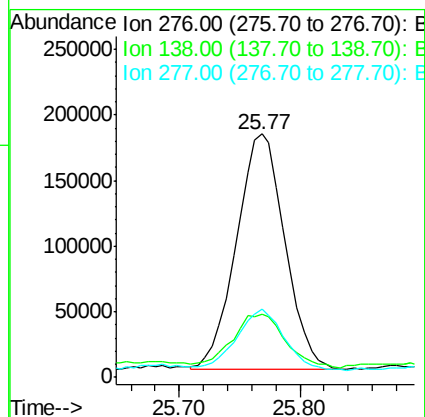
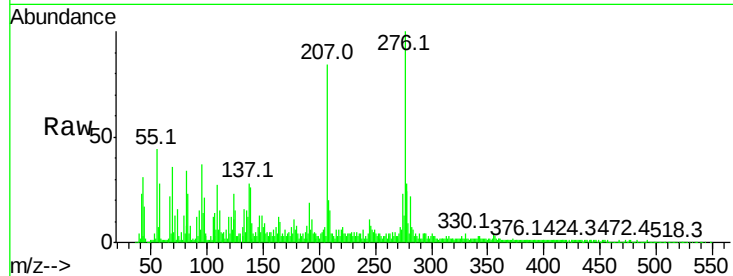
Indeno(1,2,3-cd)pyrene  
Concen: 3.672 ng/uL  
RT: 25.77 min Scan# 3873  
Delta R.T. 0.02 min  
Lab File: BN002013.D  
Acq: 11 Jul 2018 16:36

Instrument :  
BNA\_N  
ClientSampleID :  
DAZQ2MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.9  | 10.9  | 16.3# |
| 277     | 28.2  | 18.9  | 28.3  |

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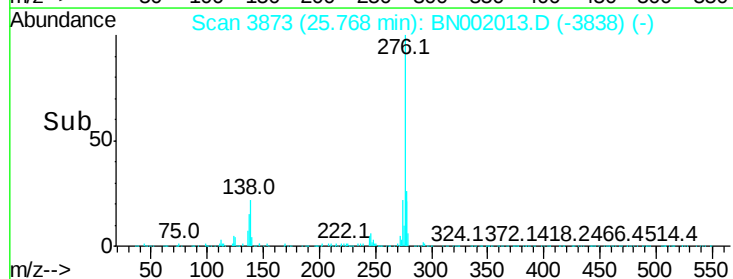
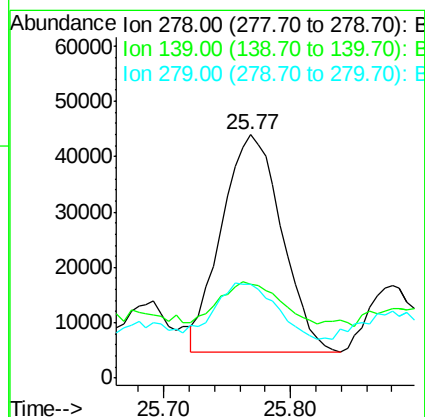
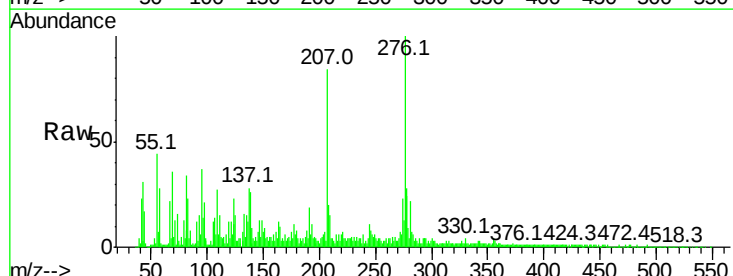
Sohil  
7/12/2018 3:03:49 PM

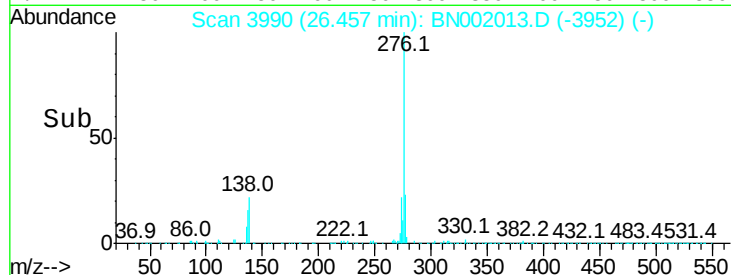
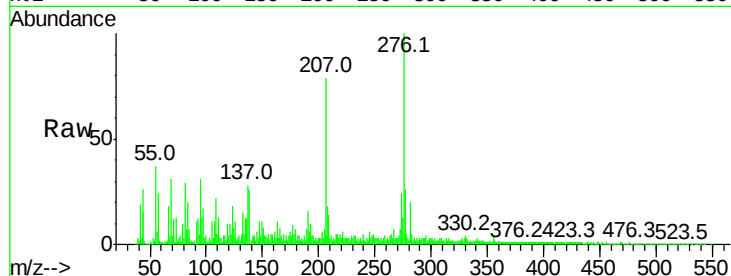
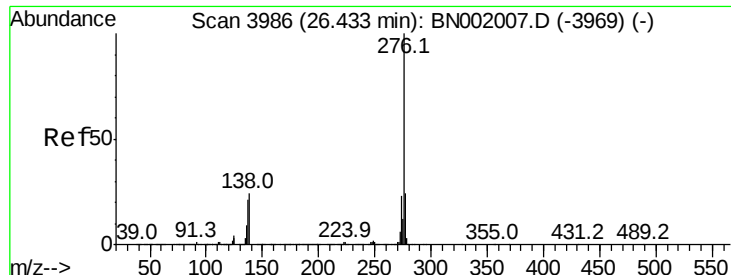


#90

Dibenzo(a,h)anthracene  
Concen: 1.153 ng/uL  
RT: 25.77 min Scan# 3873  
Delta R.T. 0.01 min  
Lab File: BN002013.D  
Acq: 11 Jul 2018 16:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 38.3  | 9.0   | 13.4# |
| 279     | 38.3  | 19.1  | 28.7# |





#91

Benzo(a,h,i)perylene

Concen: 5.407 ng/ul

RT: 26.46 min Scan# 3990

Delta R.T. 0.02 min

Lab File: BN002013.D

Acq: 11 Jul 2018 16:36

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.8  | 11.2  | 16.8# |
| 277     | 25.6  | 19.0  | 28.6  |

Instrument :  
BNA\_N  
ClientSampleId :  
DAZQ2MSD

Manual Integrations  
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