

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN020620\  
 Data File : BN009610.D  
 Acq On : 06 Feb 2020 15:08  
 Operator : CG/JU  
 Sample : L1323-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAT43

Manual Integrations  
 APPROVED

mohammad  
 2/10/2020 8:19:07 AM

Quant Time: Feb 06 22:13:12 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Feb 03 16:39:56 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.43  | 152  | 142115   | 20.00 | ng/ul | -0.01    |
| 18) Naphthalene-d8        | 10.19 | 136  | 567817   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.07 | 164  | 335546   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.83 | 188  | 645958   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.05 | 240  | 589012   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.16 | 264  | 689515   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.08  | 96  | 8096   | 2.34  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.63  | 99  | 168050 | 13.56 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.79  | 67  | 123588 | 14.84 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 6.98  | 132 | 133039 | 14.58 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.15  | 113 | 134719 | 13.65 | ng/ul | -0.01 |
| 19) Nitrobenzene-d5            | 8.58  | 128 | 67148  | 15.90 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.29  | 143 | 72024  | 15.28 | ng/ul | -0.01 |
| 26) 2,4-Dichlorophenol-d3      | 9.82  | 165 | 132675 | 15.03 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.34 | 131 | 70680m | 7.45  | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.50 | 166 | 390483 | 15.94 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.77 | 160 | 481201 | 16.26 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.32 | 143 | 64759  | 14.00 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.08 | 176 | 354899 | 16.48 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.25 | 200 | 48872  | 12.11 | ng/ul | 0.02  |
| 70) Anthracene-d10             | 16.94 | 188 | 502066 | 17.11 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.24 | 212 | 556607 | 17.98 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.03 | 264 | 578894 | 17.05 | ng/ul | 0.01  |

## Target Compounds

|                            |       |     |           |         | Ovalue    |
|----------------------------|-------|-----|-----------|---------|-----------|
| 4) Benzaldehyde            | 6.61  | 77  | 9518      | 1.119   | ng/ul 99  |
| 6) Phenol                  | 6.66  | 94  | 17216     | 1.300   | ng/ul 96  |
| 14) Acetophenone           | 8.26  | 105 | 56123     | 3.553   | ng/ul 91  |
| 34) 2-Methylnaphthalene    | 11.86 | 142 | 645192    | 29.941  | ng/ul 100 |
| 44) Dimethylphthalate      | 13.55 | 163 | 58511     | 2.251   | ng/ul 97  |
| 47) Acenaphthylene         | 13.80 | 152 | 5833014   | 180.090 | ng/ul 98  |
| 49) Acenaphthene           | 14.14 | 153 | 966222    | 43.882  | ng/ul 100 |
| 53) Dibenzofuran           | 14.48 | 168 | 746117    | 24.334  | ng/ul# 87 |
| 58) Fluorene               | 15.15 | 166 | 5620118   | 219.323 | ng/ul 99  |
| 64) N-Nitrosodiphenylamine | 15.36 | 169 | 142083    | 7.360   | ng/ul# 84 |
| 69) Phenanthrene           | 16.89 | 178 | 20982427m | 569.582 | ng/ul     |
| 71) Anthracene             | 16.97 | 178 | 5055442   | 135.251 | ng/ul 99  |
| 76) Fluoranthene           | 18.91 | 202 | 7626981   | 181.403 | ng/ul 96  |
| 79) Pyrene                 | 19.29 | 202 | 12456632  | 289.703 | ng/ul 97  |
| 82) Benzo(a)anthracene     | 21.04 | 228 | 4599568m  | 113.100 | ng/ul     |
| 84) Chrysene               | 21.09 | 228 | 4006485   | 98.959  | ng/ul 98  |
| 87) Benzo(b)fluoranthene   | 22.55 | 252 | 2659301   | 61.644  | ng/ul 98  |
| 88) Benzo(k)fluoranthene   | 22.58 | 252 | 791888m   | 18.639  | ng/ul     |
| 90) Benzo(a)pyrene         | 23.08 | 252 | 2787139   | 69.732  | ng/ul 95  |
| 91) Indeno(1,2,3-cd)pyrene | 25.23 | 276 | 1096869   | 23.082  | ng/ul 96  |
| 92) Dibenz(a,h)anthracene  | 25.23 | 278 | 415906    | 10.398  | ng/ul# 93 |
| 93) Benzo(a,h,i)perylene   | 25.86 | 276 | 1001399   | 25.144  | ng/ul 98  |

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Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAT43

Manual Integrations  
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Quant Time: Feb 06 22:13:12 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Feb 03 16:39:56 2020  
Response via : Initial Calibration

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

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

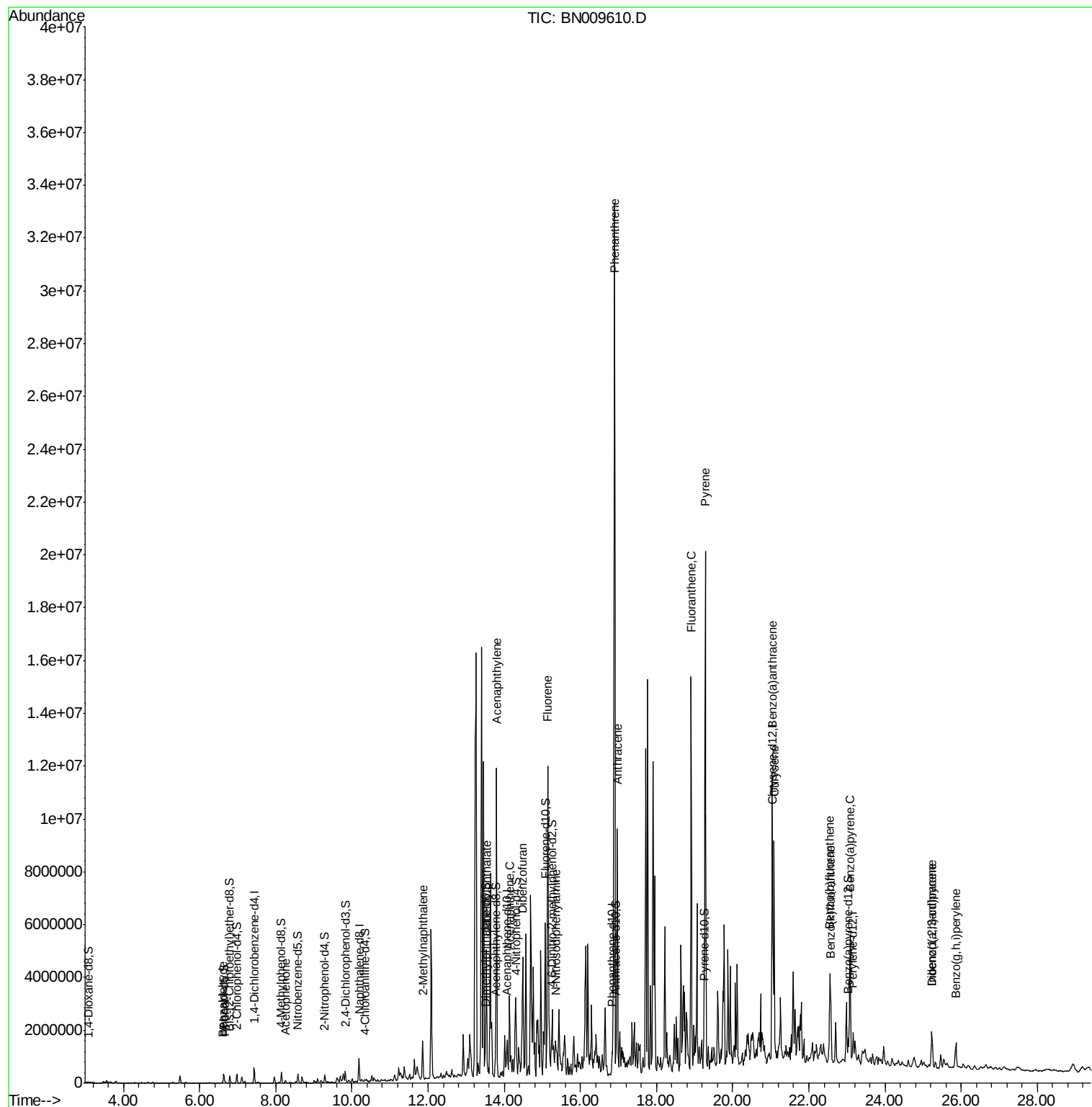
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN020620\  
Data File : BN009610.D  
Acq On : 06 Feb 2020 15:08  
Operator : CG/JU  
Sample : L1323-03  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

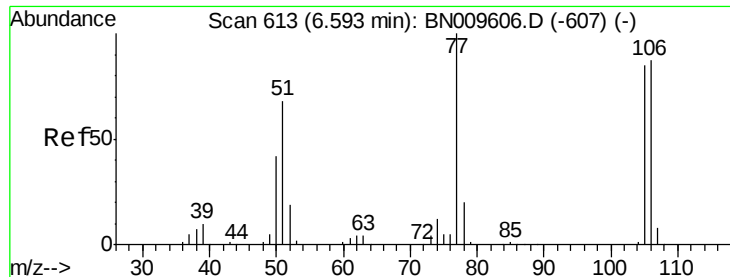
Instrument :  
BNA\_N  
ClientSampleId :  
GAT43

Manual Integrations  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Feb 03 16:39:56 2020  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 1.119 ng/ul

RT: 6.61 min Scan# 616

Delta R.T. 0.01 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

Instrument :

BNA\_N

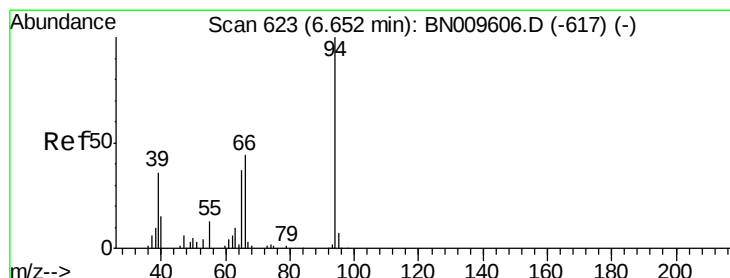
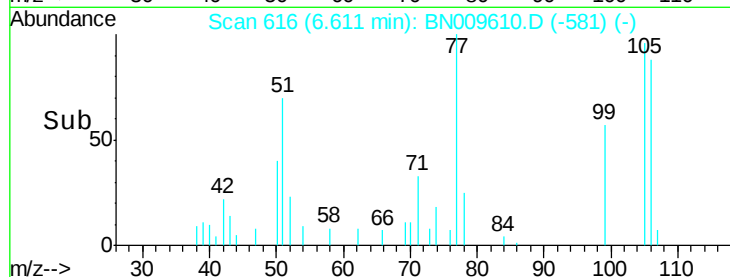
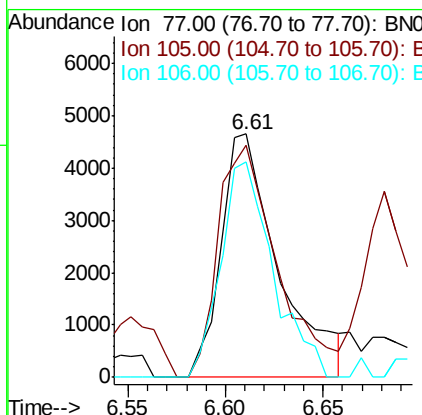
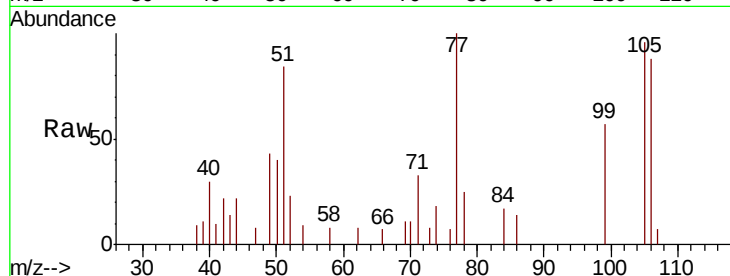
ClientSampled :

GAT43

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 77    | Resp: | 9518  |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 105      | 95.5  | 74.5  | 111.7 |
| 106      | 88.3  | 70.8  | 106.2 |

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#6

Phenol

Concen: 1.300 ng/ul

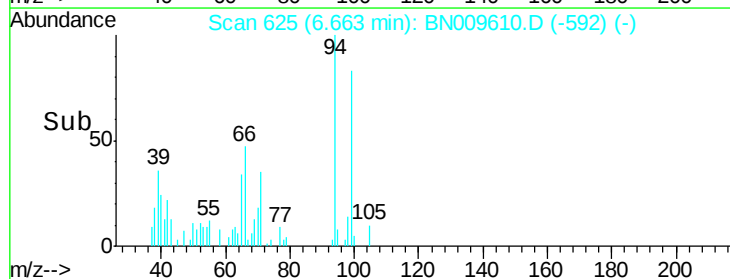
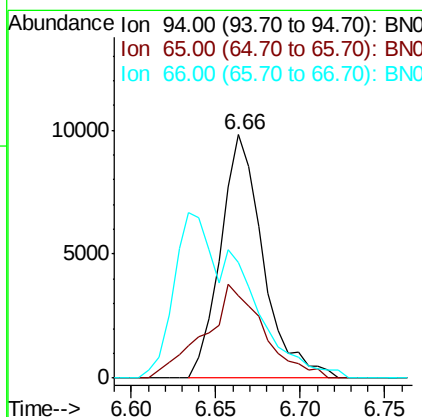
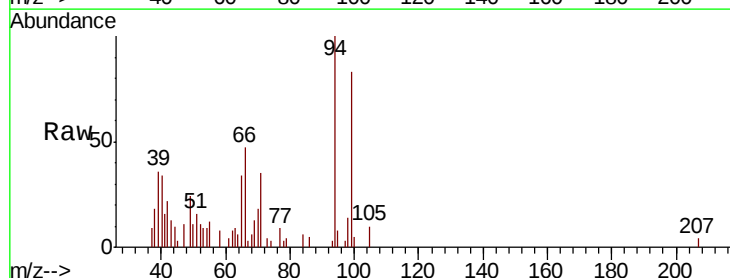
RT: 6.66 min Scan# 625

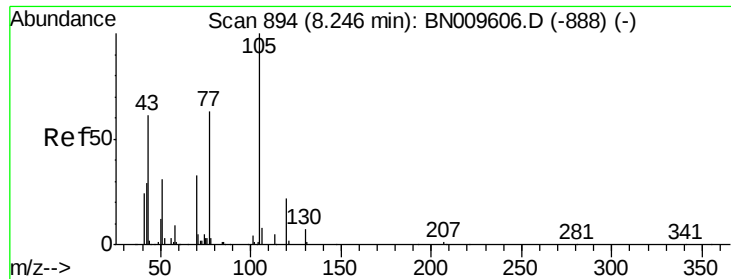
Delta R.T. -0.01 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 17216 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 33.8  | 29.8  | 44.6  |
| 66       | 47.4  | 39.5  | 59.3  |





#14

Acetophenone

Concen: 3.553 ng/ul

RT: 8.26 min Scan# 896

Delta R.T. 0.00 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

Instrument :

BNA\_N

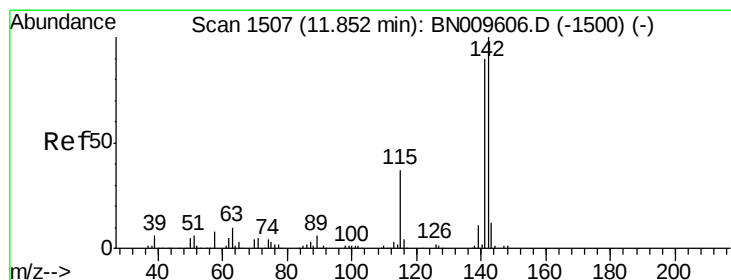
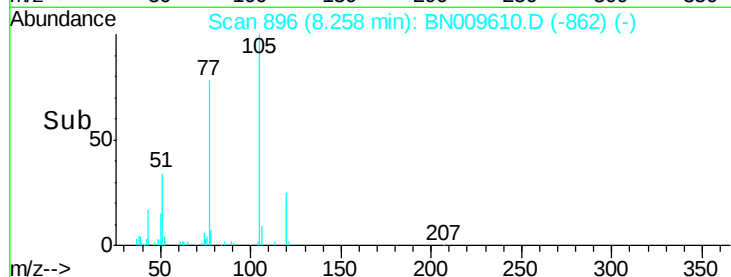
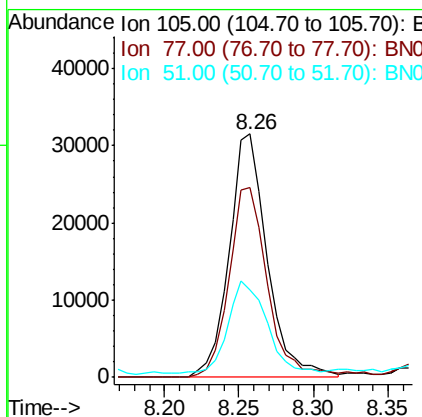
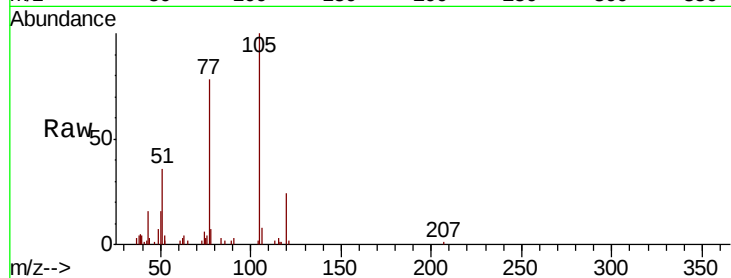
ClientSampleId :

GAT43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 56123 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 77        | 77.9  | 67.7  | 101.5 |
| 51        | 35.9  | 34.3  | 51.5  |

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#34

2-Methylnaphthalene

Concen: 29.941 ng/ul

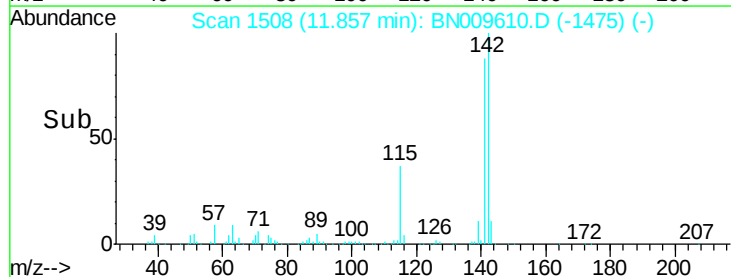
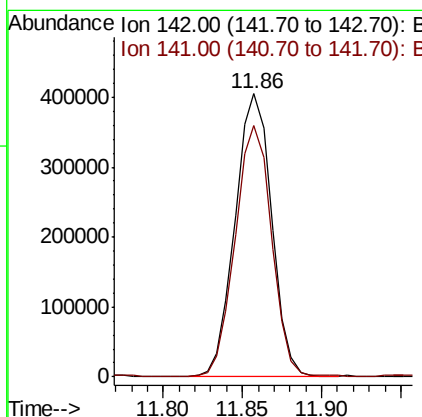
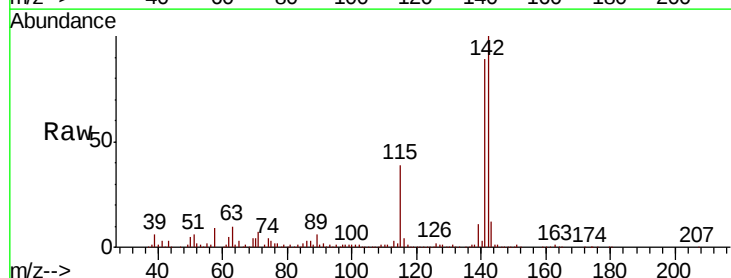
RT: 11.86 min Scan# 1508

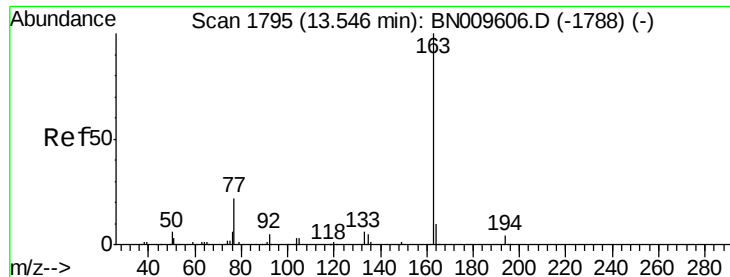
Delta R.T. -0.01 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 645192 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 89.0  | 71.5  | 107.3  |





#44

Dimethylphthalate

Concen: 2.251 ng/ul

RT: 13.55 min Scan# 1795

Delta R.T. -0.01 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

Instrument :

BNA\_N

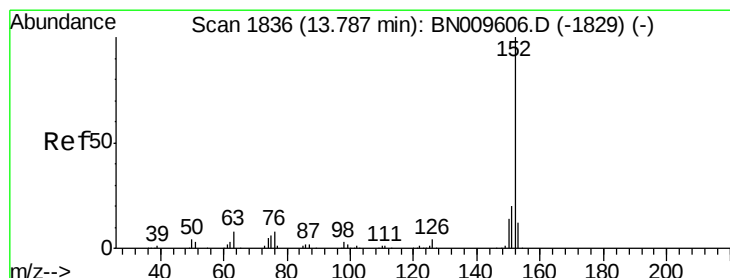
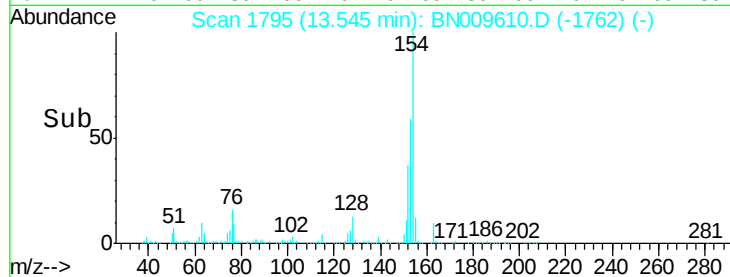
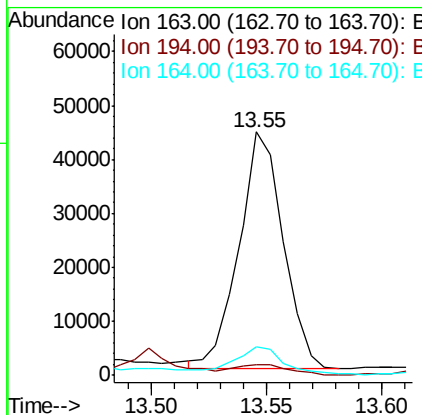
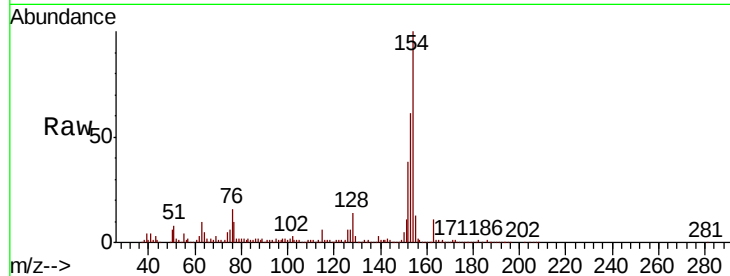
ClientSampleId :

GAT43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 58511 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.5   | 3.5   | 5.3   |
| 164       | 11.5  | 8.0   | 12.0  |

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#47

Acenaphthylene

Concen: 180.090 ng/ul

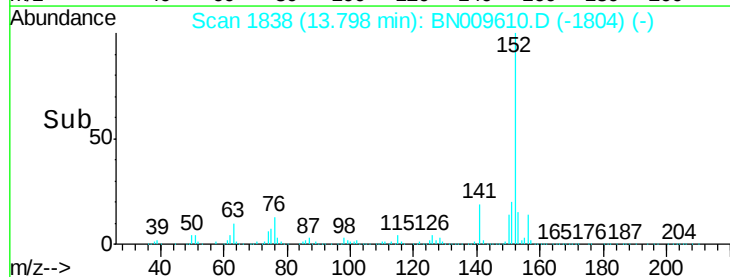
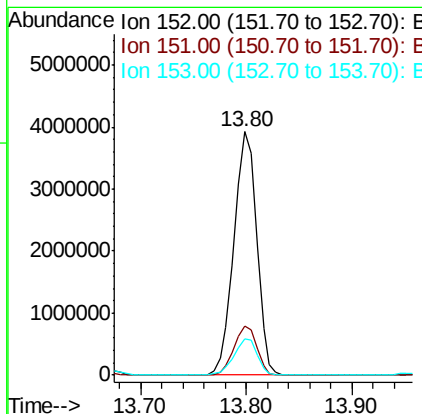
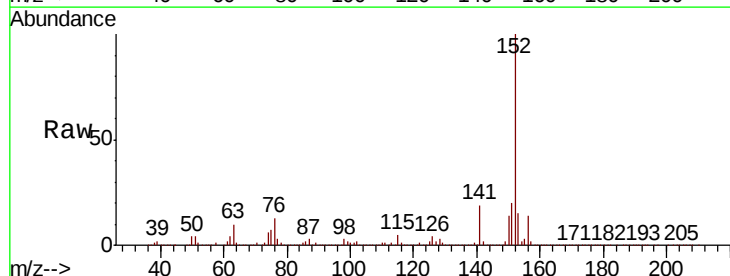
RT: 13.80 min Scan# 1838

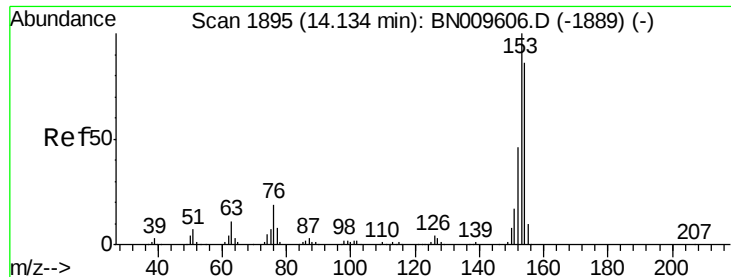
Delta R.T. 0.00 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 152   | Resp: | 5833014 |
| Ion Ratio | Lower | Upper |         |
| 152       | 100   |       |         |
| 151       | 20.3  | 16.2  | 24.2    |
| 153       | 14.9  | 10.6  | 15.8    |





#49

Acenaphthene

Concen: 43.882 ng/ul

RT: 14.14 min Scan# 1896

Delta R.T. -0.01 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

Instrument :

BNA\_N

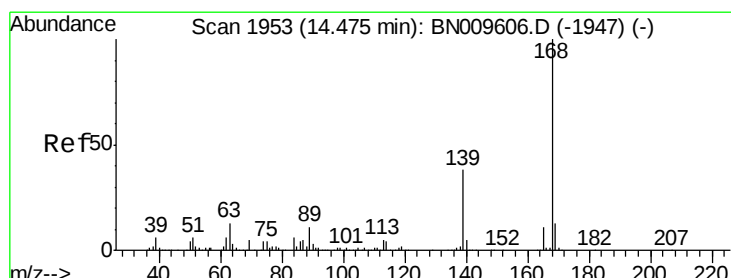
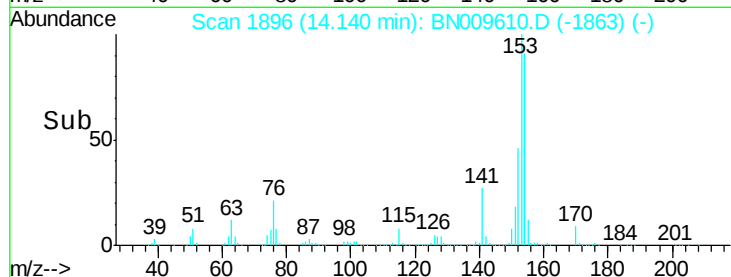
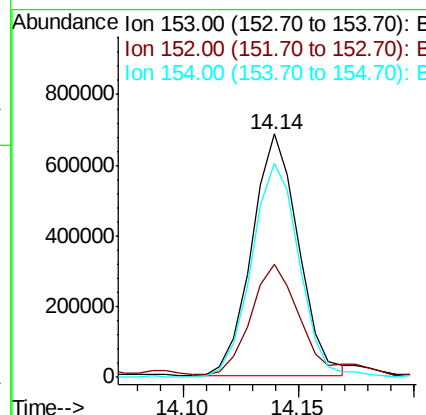
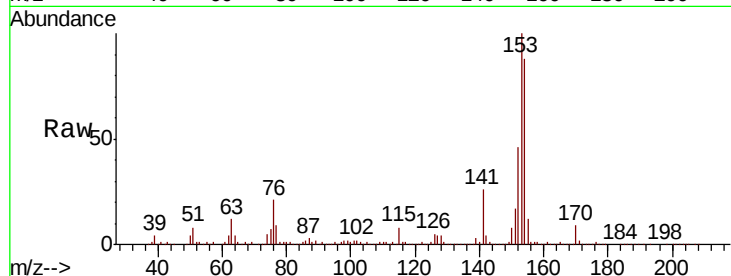
ClientSampled :

GAT43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 153   | Resp: | 966222 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 46.4  | 37.3  | 55.9   |
| 154       | 88.2  | 70.2  | 105.2  |

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#53

Dibenzofuran

Concen: 24.334 ng/ul

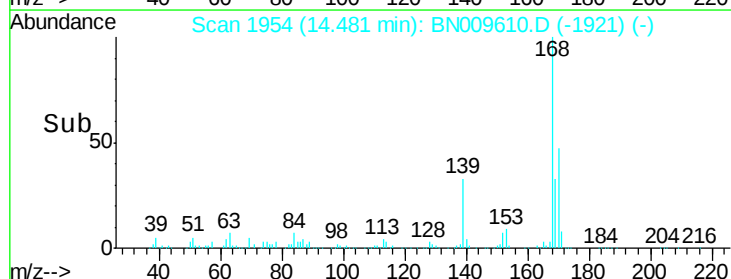
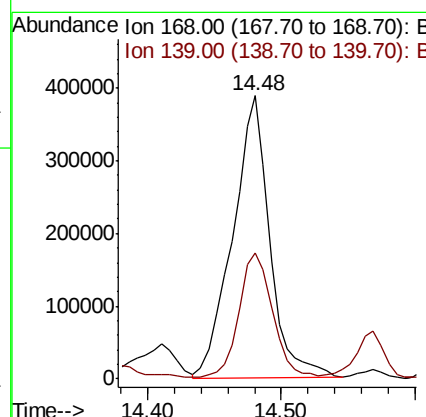
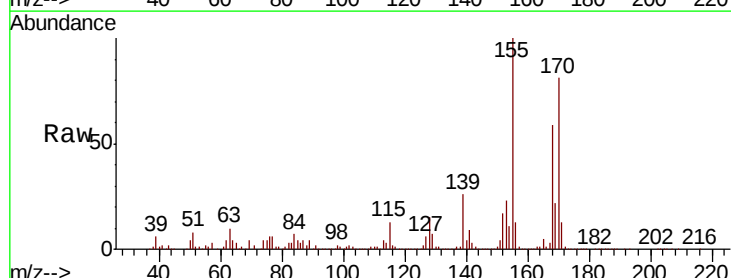
RT: 14.48 min Scan# 1954

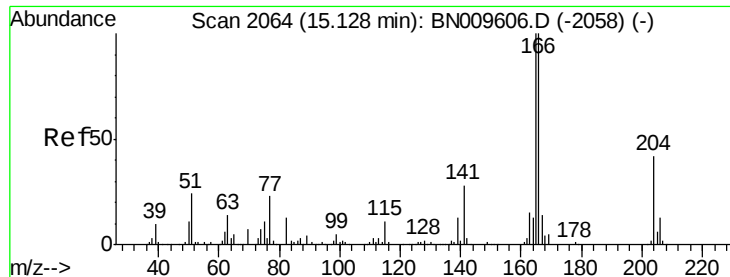
Delta R.T. -0.01 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 746117 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 44.7  | 29.5  | 44.3#  |





#58

Fluorene

Concen: 219.323 ng/ul

RT: 15.15 min Scan# 2067

Delta R.T. 0.01 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

Instrument :

BNA\_N

ClientSampled :

GAT43

Tot Ion:166 Resp: 5620118

Ion Ratio Lower Upper

166 100

165 96.5 76.7 115.1

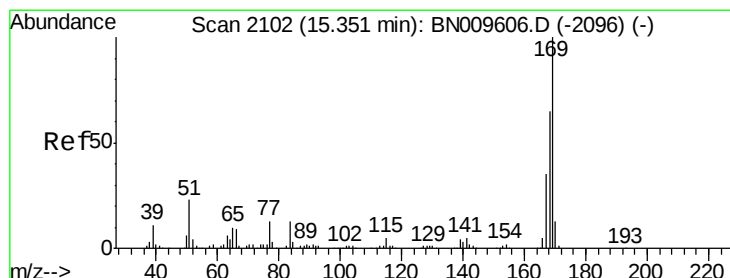
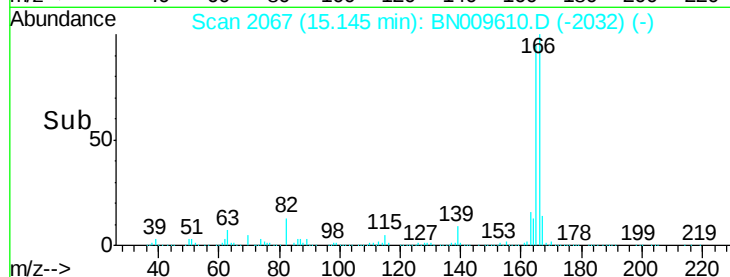
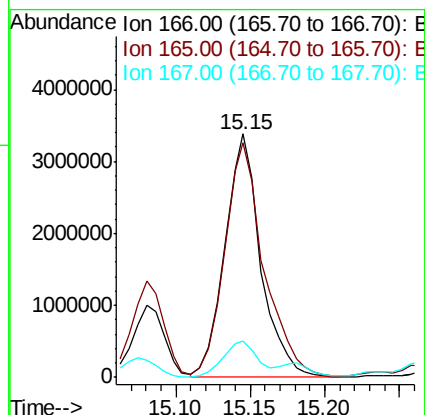
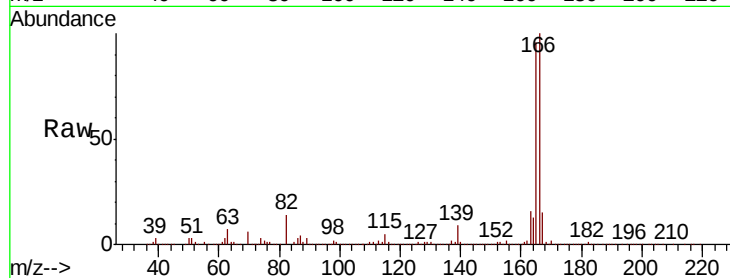
167 14.7 11.1 16.7

Manual Integrations

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#64

N-Nitrosodiphenylamine

Concen: 7.360 ng/ul

RT: 15.36 min Scan# 2103

Delta R.T. 0.00 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

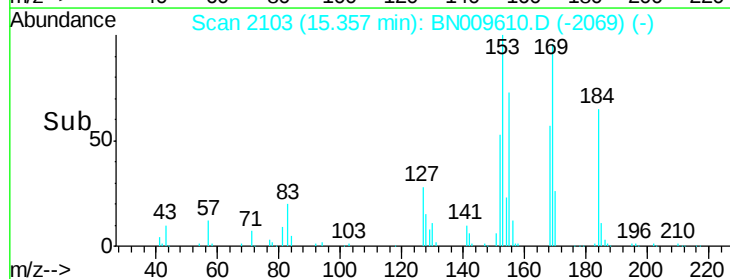
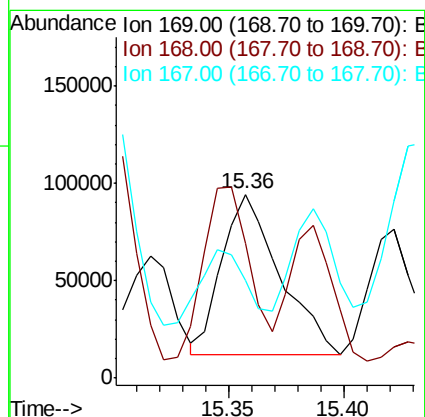
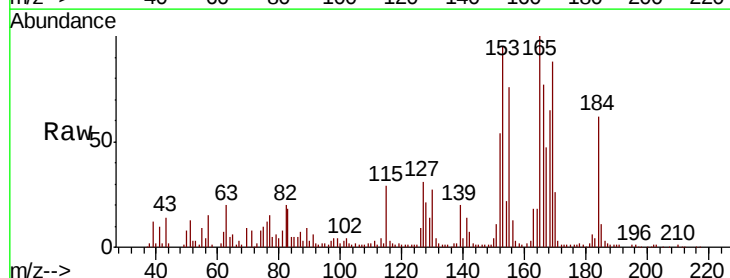
Tgt Ion:169 Resp: 142083

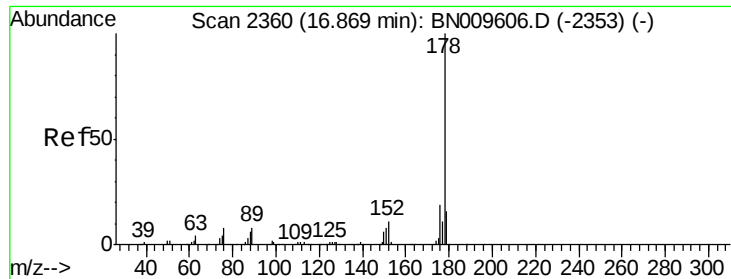
Ion Ratio Lower Upper

169 100

168 73.7 53.8 80.8

167 53.2 27.5 41.3#





#69

Phenanthrene

Concen: 569.582 ng/ul m

RT: 16.89 min Scan# 2363

Delta R.T. 0.01 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

Instrument :

BNA\_N

ClientSampled :

GAT43

Tot Ion:178 Resp:20982427

Ion Ratio Lower Upper

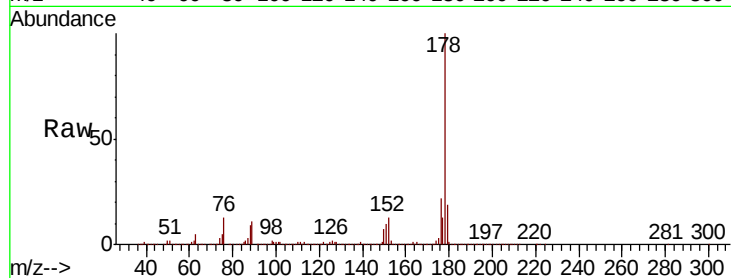
178 100

179 18.6 12.2 18.2#

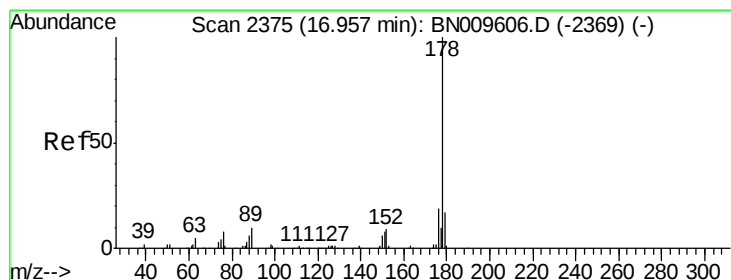
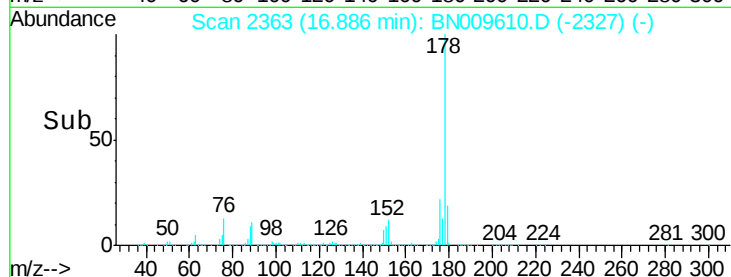
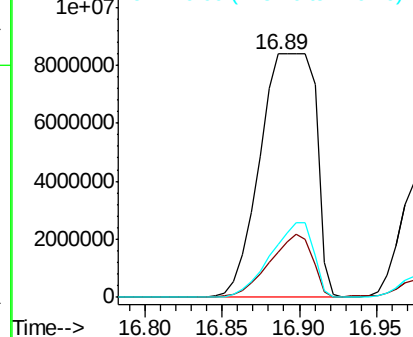
176 21.7 14.8 22.2

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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 135.251 ng/ul

RT: 16.97 min Scan# 2378

Delta R.T. 0.01 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

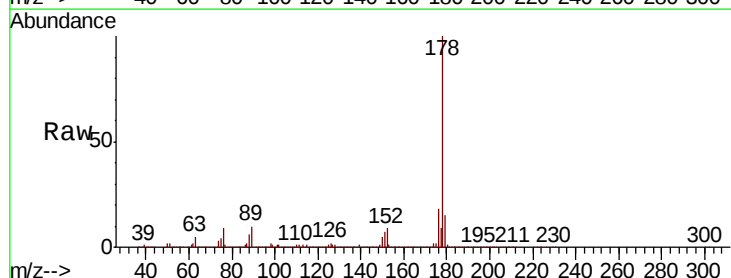
Tgt Ion:178 Resp: 5055442

Ion Ratio Lower Upper

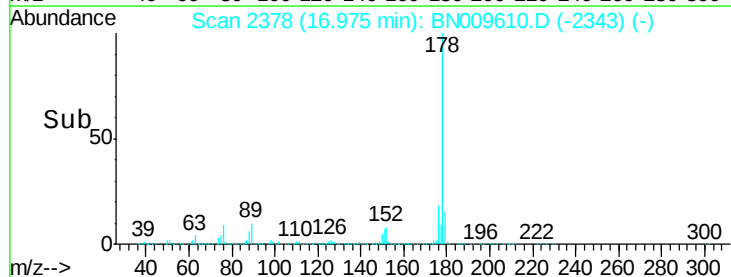
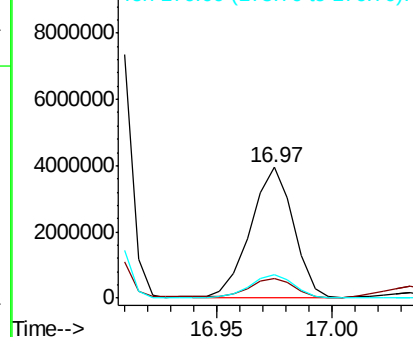
178 100

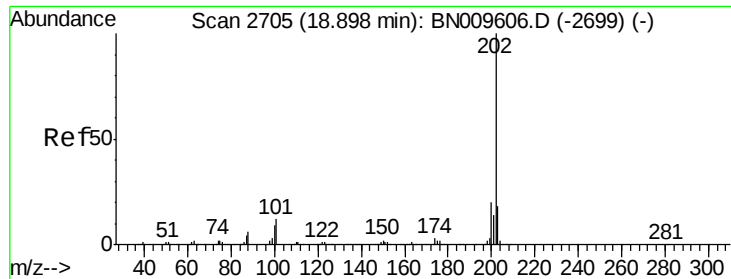
179 15.4 12.1 18.1

176 17.8 14.6 21.8



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E





#76

Fluoranthene

Concen: 181.403 ng/ul

RT: 18.91 min Scan# 2707

Delta R.T. 0.01 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

Instrument :

BNA\_N

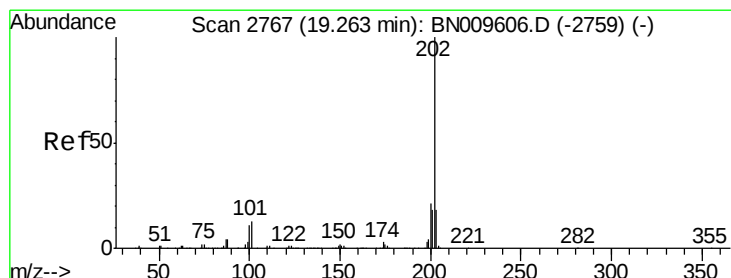
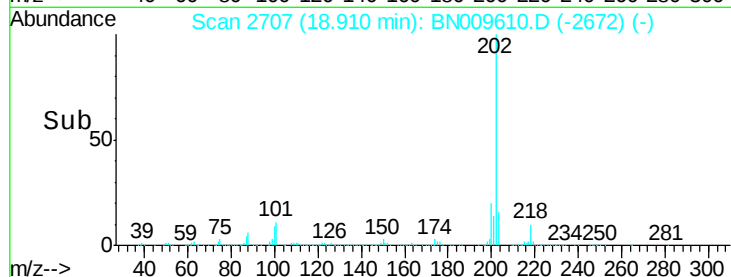
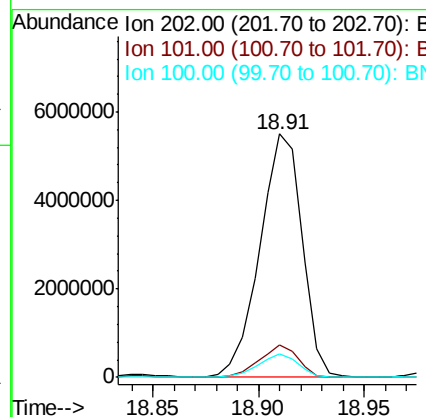
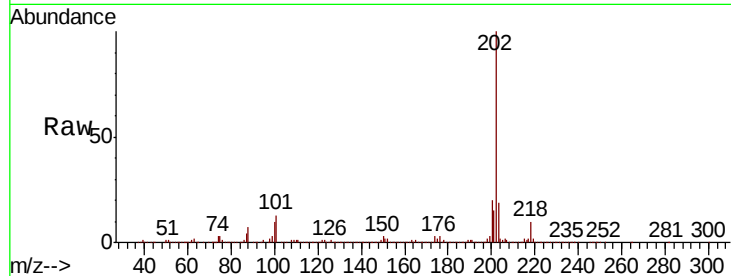
ClientSampleId :

GAT43

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 7626981 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 13.3  | 9.2   | 13.8    |
| 100      | 9.9   | 6.9   | 10.3    |

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#79

Pyrene

Concen: 289.703 ng/ul

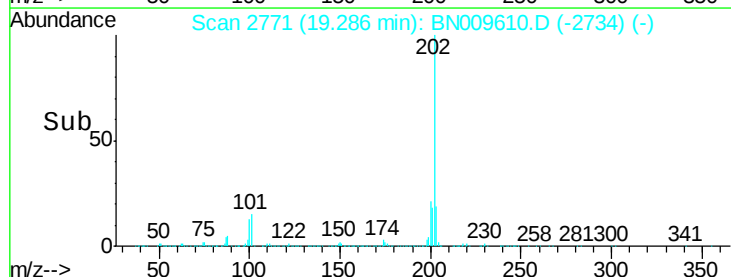
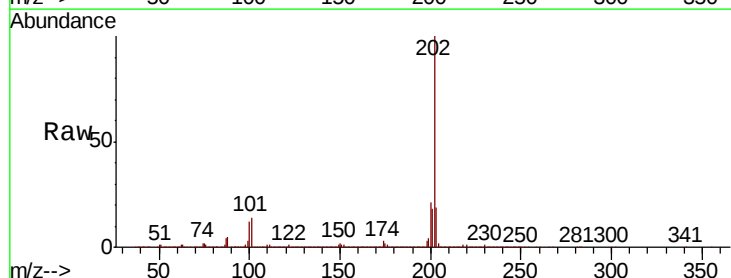
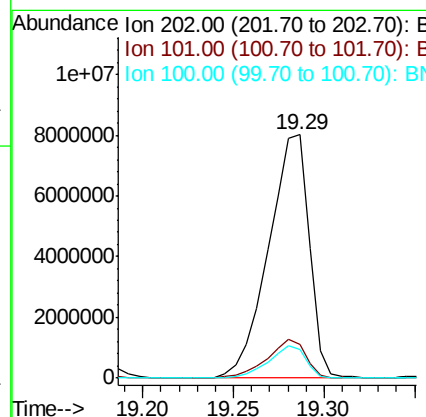
RT: 19.29 min Scan# 2771

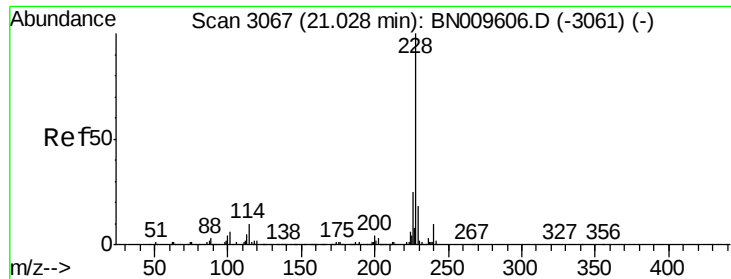
Delta R.T. 0.02 min

Lab File: BN009610.D

Acq: 06 Feb 2020 15:08

|          |       |       |          |
|----------|-------|-------|----------|
| Tgt Ion: | 202   | Resp: | 12456632 |
| Ion      | Ratio | Lower | Upper    |
| 202      | 100   |       |          |
| 101      | 13.9  | 10.3  | 15.5     |
| 100      | 11.5  | 8.4   | 12.6     |





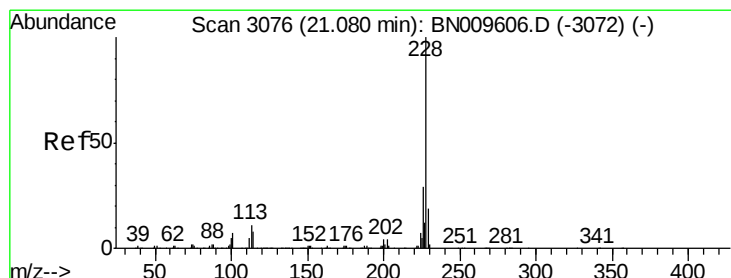
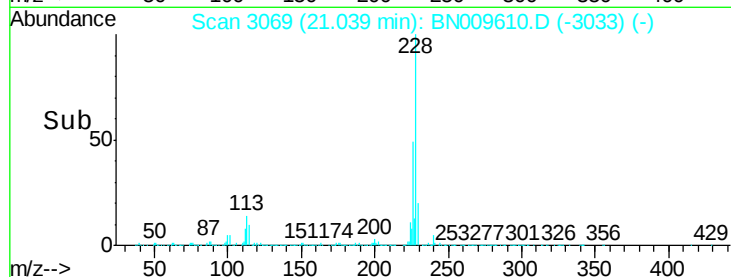
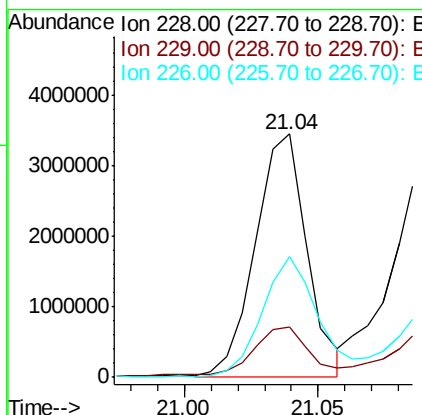
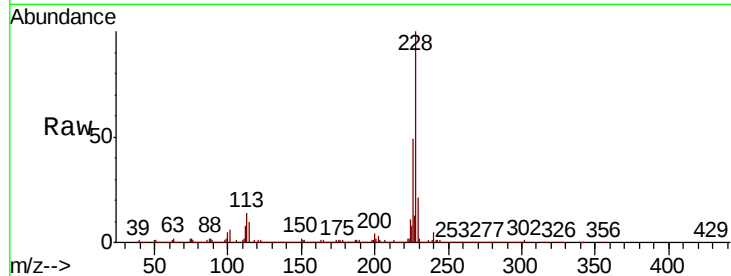
#82  
Benzo(a)anthracene  
Concen: 113.100 ng/ul m  
RT: 21.04 min Scan# 3069  
Delta R.T. 0.01 min  
Lab File: BN009610.D  
Acq: 06 Feb 2020 15:08

Instrument :  
BNA\_N  
ClientSampleId :  
GAT43

Tot Ion:228 Resp: 4599568  
Ion Ratio Lower Upper  
228 100  
229 20.5 15.0 22.4  
226 49.5 20.9 31.3#

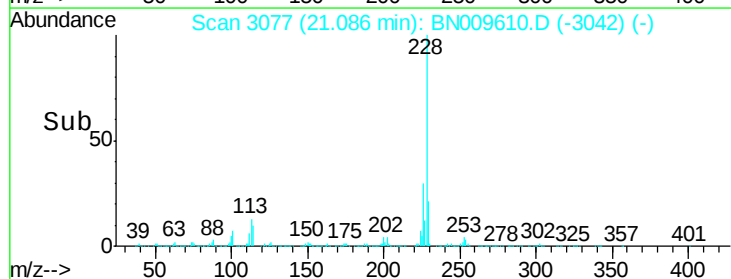
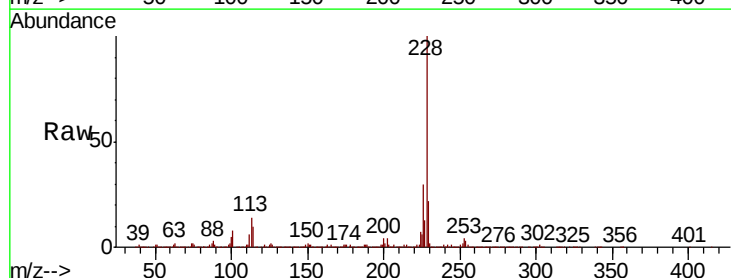
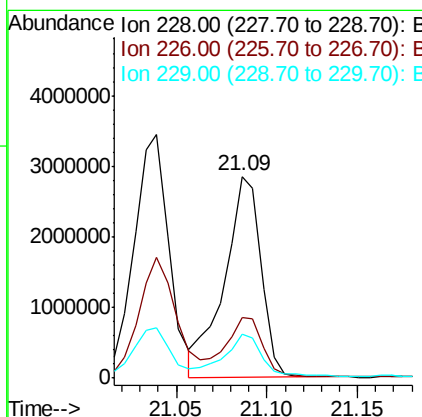
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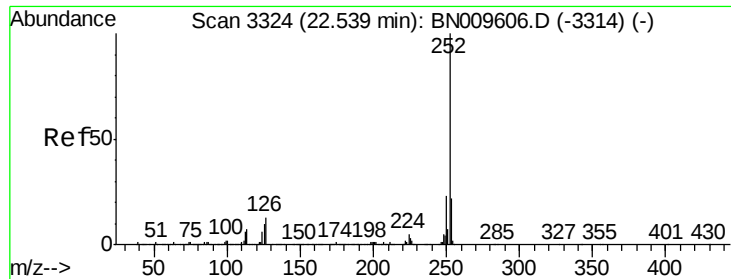
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#84  
Chrysene  
Concen: 98.959 ng/ul  
RT: 21.09 min Scan# 3077  
Delta R.T. 0.01 min  
Lab File: BN009610.D  
Acq: 06 Feb 2020 15:08

Tgt Ion:228 Resp: 4006485  
Ion Ratio Lower Upper  
228 100  
226 30.2 23.5 35.3  
229 21.5 15.8 23.8





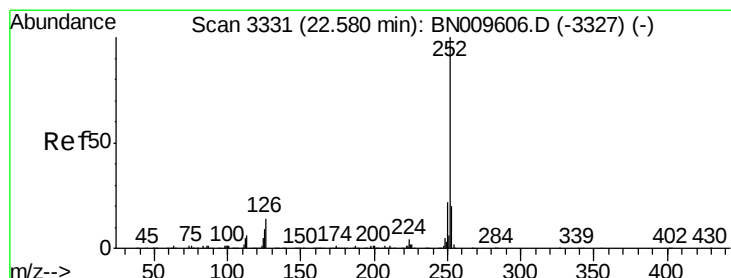
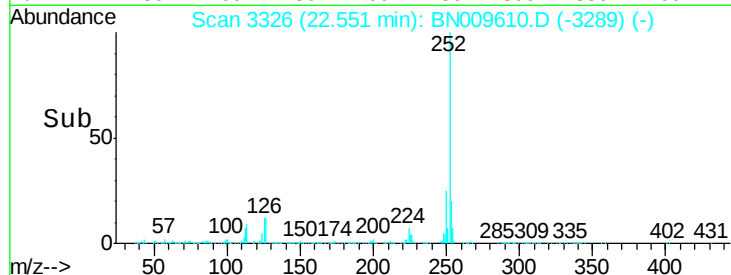
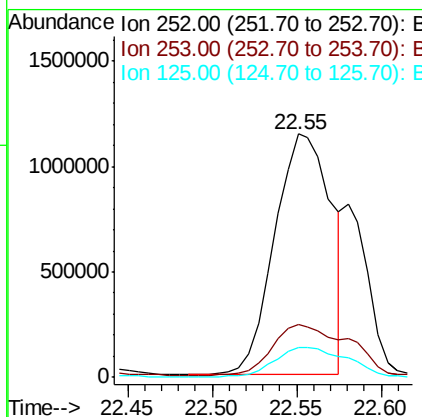
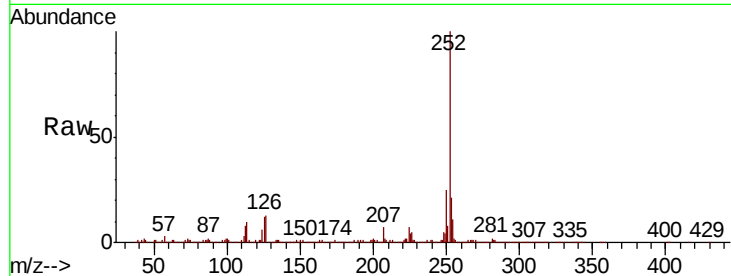
#87  
Benzo(b)fluoranthene  
Concen: 61.644 ng/ul  
RT: 22.55 min Scan# 3326  
Delta R.T. 0.02 min  
Lab File: BN009610.D  
Acq: 06 Feb 2020 15:08

Instrument :  
BNA\_N  
ClientSampleId :  
GAT43

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 17.0  | 25.6  |
| 125     | 12.2  | 8.2   | 12.2  |

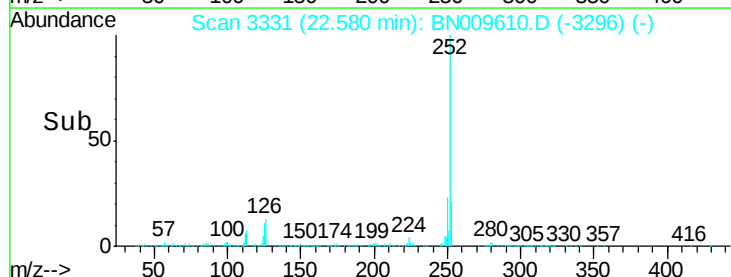
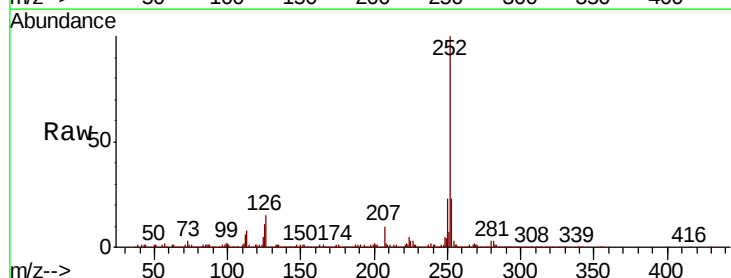
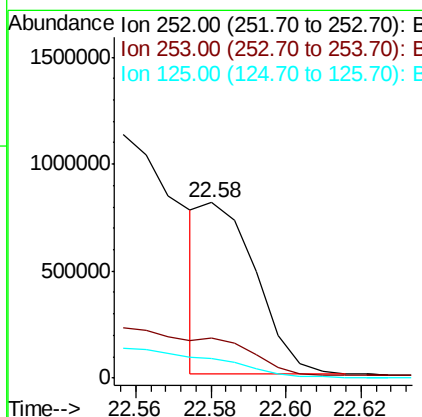
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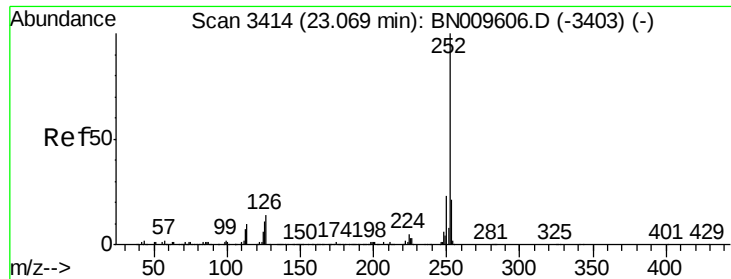
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#88  
Benzo(k)fluoranthene  
Concen: 18.639 ng/ul m  
RT: 22.58 min Scan# 3331  
Delta R.T. 0.01 min  
Lab File: BN009610.D  
Acq: 06 Feb 2020 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.0  | 25.4  |
| 125     | 11.2  | 8.0   | 12.0  |





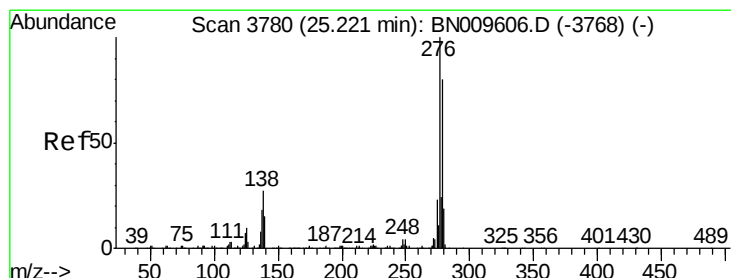
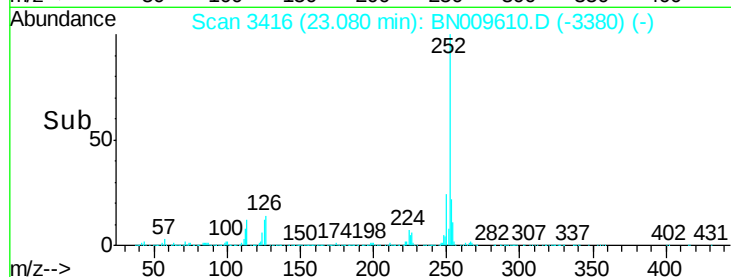
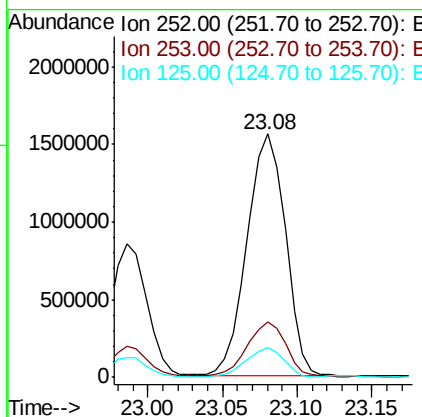
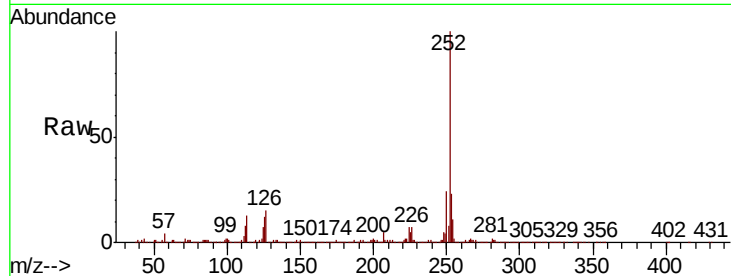
#90  
Benzo(a)pyrene  
Concen: 69.732 ng/ul  
RT: 23.08 min Scan# 3416  
Delta R.T. 0.01 min  
Lab File: BN009610.D  
Acq: 06 Feb 2020 15:08

Instrument :  
BNA\_N  
ClientSampled :  
GAT43

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 15.8  | 23.8  |
| 125     | 12.1  | 8.7   | 13.1  |

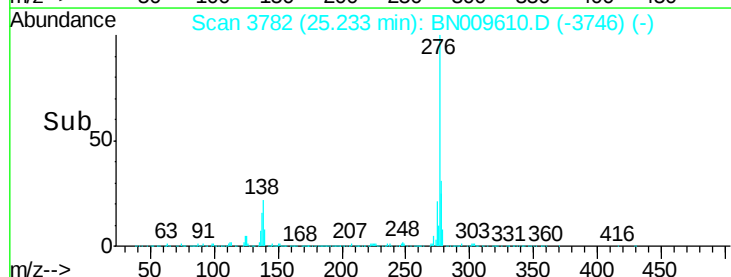
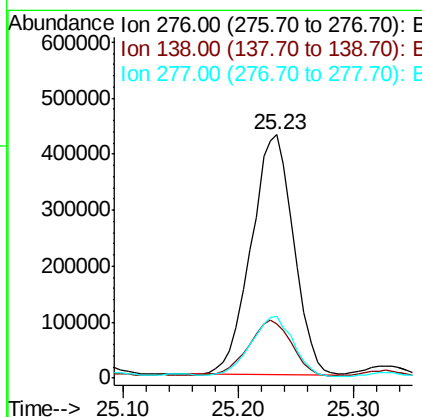
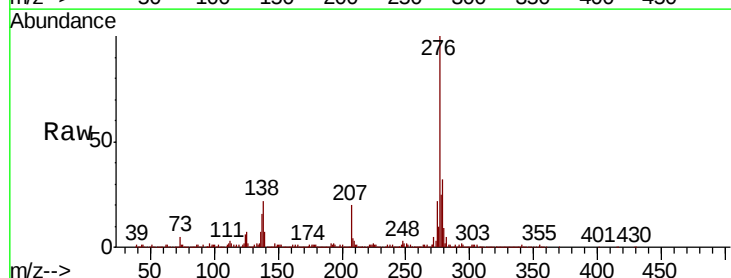
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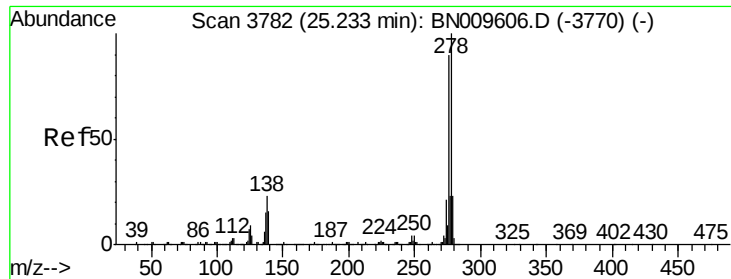
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#91  
Indeno(1,2,3-cd)pyrene  
Concen: 23.082 ng/ul  
RT: 25.23 min Scan# 3782  
Delta R.T. 0.01 min  
Lab File: BN009610.D  
Acq: 06 Feb 2020 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.2  | 20.3  | 30.5  |
| 277     | 25.2  | 21.2  | 31.8  |





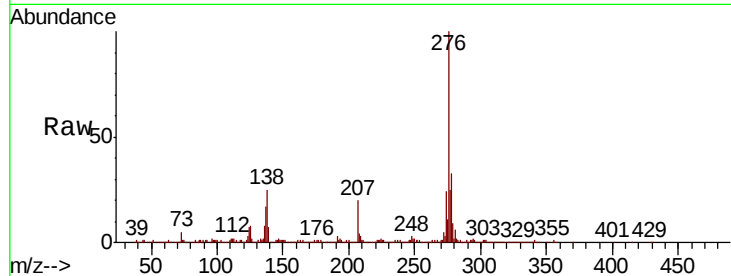
#92  
Dibenzo(a,h)anthracene  
Concen: 10.398 ng/ul  
RT: 25.23 min Scan# 3781  
Delta R.T. -0.01 min  
Lab File: BN009610.D  
Acq: 06 Feb 2020 15:08

Instrument :  
BNA\_N  
ClientSampleId :  
GAT43

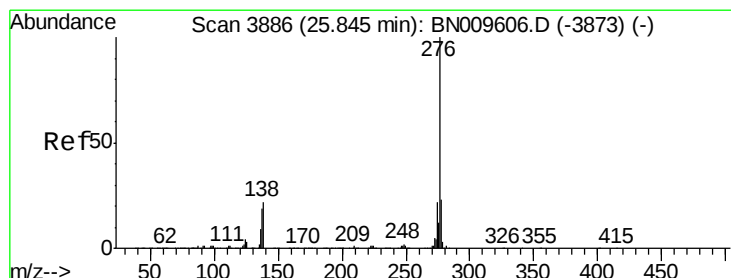
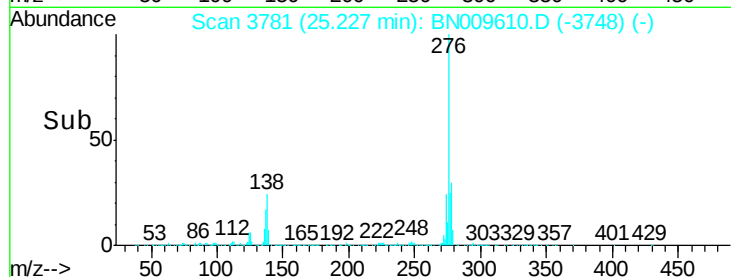
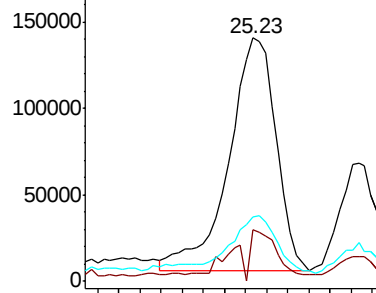
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 21.4  | 12.7  | 19.1# |
| 279     | 26.4  | 19.8  | 29.8  |

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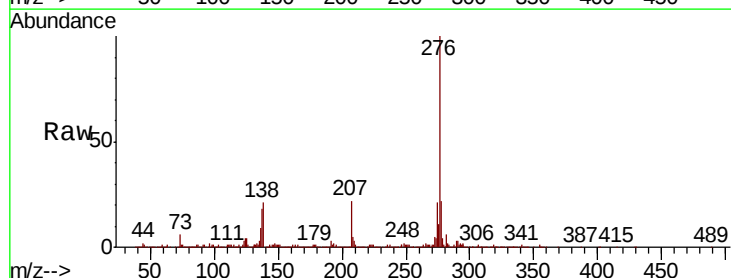


Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#93  
Benzo(g,h,i)perylene  
Concen: 25.144 ng/ul  
RT: 25.86 min Scan# 3889  
Delta R.T. 0.01 min  
Lab File: BN009610.D  
Acq: 06 Feb 2020 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.1  | 16.0  | 24.0  |
| 277     | 22.4  | 17.0  | 25.6  |



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

