

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN020620\  
 Data File : BN009669.D  
 Acq On : 08 Feb 2020 05:23  
 Operator : CG/JU  
 Sample : L1401-13  
 Misc :  
 ALS Vial : 64 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB6K6

Manual Integrations  
 APPROVED

mohammad  
 2/11/2020 8:24:27 AM

Quant Time: Feb 10 03:04:17 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Feb 07 15:21:46 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.43  | 152  | 150511   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.18 | 136  | 633396   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.07 | 164  | 387125   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.82 | 188  | 790627   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.03 | 240  | 750909   | 20.00 | ng/ul | -0.01    |
| 85) Perylene-d12          | 23.15 | 264  | 751933   | 20.00 | ng/ul | -0.02    |

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| System Monitoring Compounds    |       |     |        |       |       |       |
| 3) 1,4-Dioxane-d8              | 3.08  | 96  | 13751  | 3.75  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.63  | 99  | 271210 | 20.66 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.79  | 67  | 193130 | 21.90 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 6.98  | 132 | 219324 | 22.70 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.14  | 113 | 215769 | 20.64 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.58  | 128 | 108275 | 22.98 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.29  | 143 | 119664 | 22.77 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.82  | 165 | 209679 | 21.29 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.33 | 131 | 288906 | 27.29 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.49 | 166 | 673277 | 23.82 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.76 | 160 | 808815 | 23.69 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.30 | 143 | 93027  | 17.43 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.07 | 176 | 581031 | 23.38 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.22 | 200 | 86604  | 17.54 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 16.92 | 188 | 885572 | 24.65 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.23 | 212 | 957245 | 24.25 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.02 | 264 | 957514 | 25.86 | ng/ul | -0.01 |

|                            |       |     |         |        |        |     |
|----------------------------|-------|-----|---------|--------|--------|-----|
| Target Compounds           |       |     |         |        | Ovalue |     |
| 28) Naphthalene            | 10.23 | 128 | 56714   | 1.651  | ng/ul  | 99  |
| 69) Phenanthrene           | 16.86 | 178 | 458806  | 10.176 | ng/ul  | 100 |
| 71) Anthracene             | 16.96 | 178 | 95163   | 2.080  | ng/ul  | 99  |
| 76) Fluoranthene           | 18.89 | 202 | 692763  | 13.462 | ng/ul  | 99  |
| 79) Pyrene                 | 19.26 | 202 | 602154  | 10.985 | ng/ul  | 97  |
| 82) Benzo(a)anthracene     | 21.02 | 228 | 304407  | 5.871  | ng/ul  | 99  |
| 84) Chrysene               | 21.07 | 228 | 295427  | 5.724  | ng/ul  | 99  |
| 87) Benzo(b)fluoranthene   | 22.53 | 252 | 351764  | 7.477  | ng/ul  | 99  |
| 88) Benzo(k)fluoranthene   | 22.57 | 252 | 105476m | 2.277  | ng/ul  |     |
| 90) Benzo(a)pyrene         | 23.06 | 252 | 212131  | 4.867  | ng/ul  | 96  |
| 91) Indeno(1,2,3-cd)pyrene | 25.21 | 276 | 109097  | 2.105  | ng/ul# | 91  |
| 93) Benzo(g,h,i)perylene   | 25.83 | 276 | 101276  | 2.332  | ng/ul  | 98  |

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

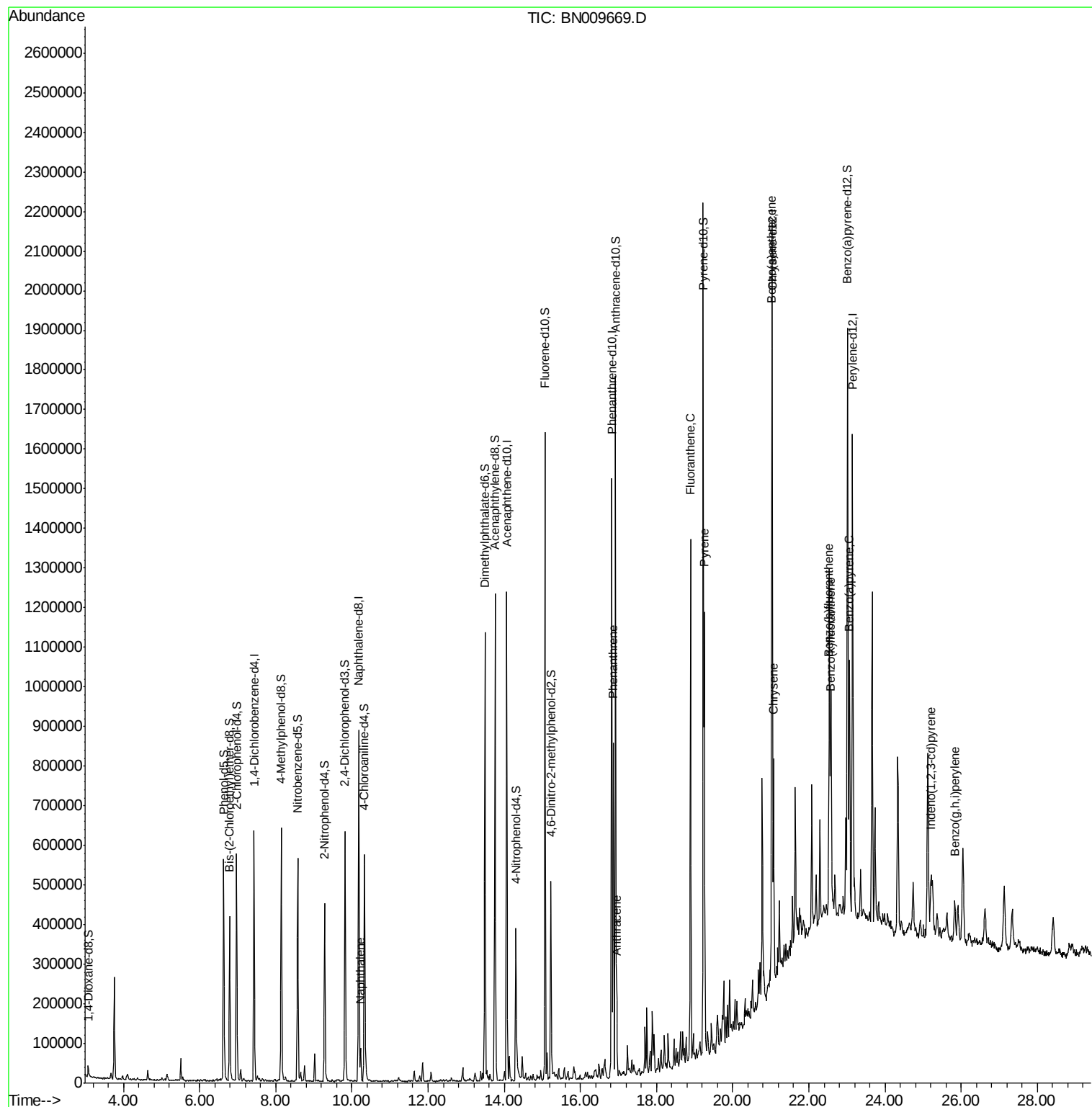
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN020620\  
Data File : BN009669.D  
Acq On : 08 Feb 2020 05:23  
Operator : CG/JU  
Sample : L1401-13  
Misc :  
ALS Vial : 64 Sample Multiplier: 1

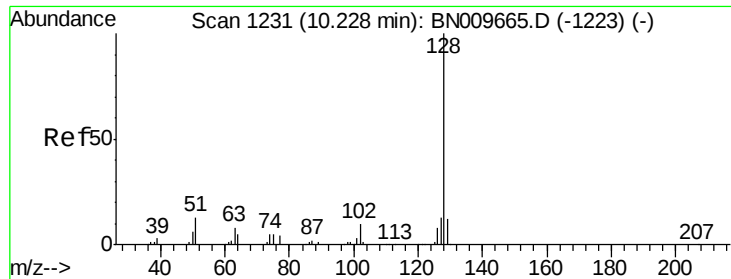
Instrument :  
BNA\_N  
ClientSampleId :  
CB6K6

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Quant Time: Feb 10 03:04:17 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 07 15:21:46 2020  
Response via : Initial Calibration





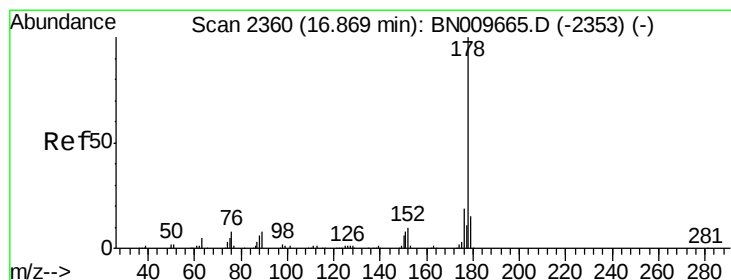
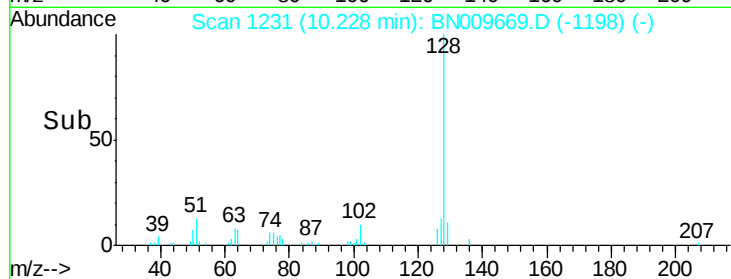
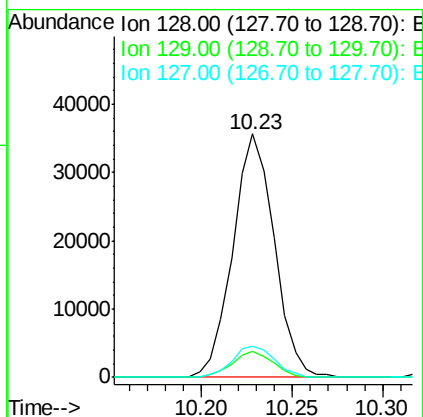
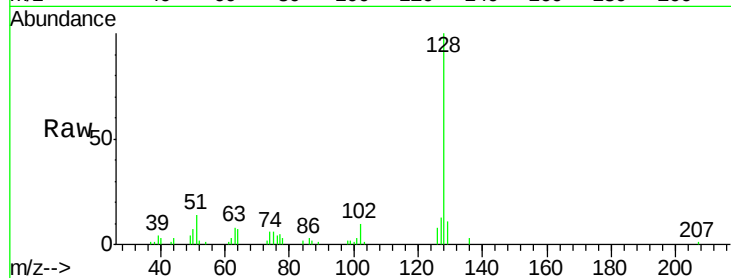
#28  
Naphthalene  
Concen: 1.651 ng/ul  
RT: 10.23 min Scan# 1231  
Delta R.T. -0.01 min  
Lab File: BN009669.D  
Acq: 08 Feb 2020 05:23

Instrument :  
BNA\_N  
ClientSampleId :  
CB6K6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.6  | 8.7   | 13.1  |
| 127     | 12.8  | 10.7  | 16.1  |

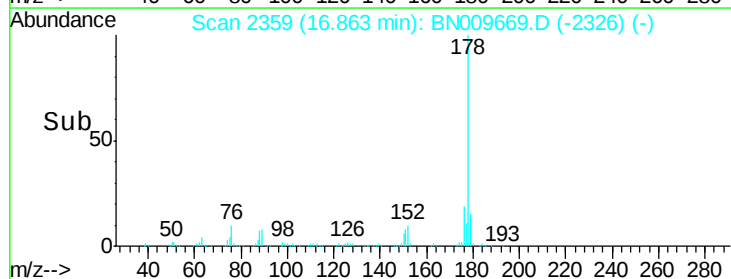
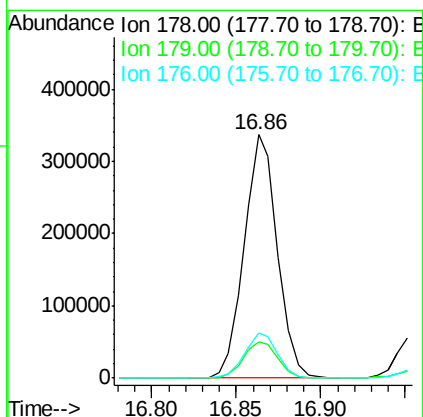
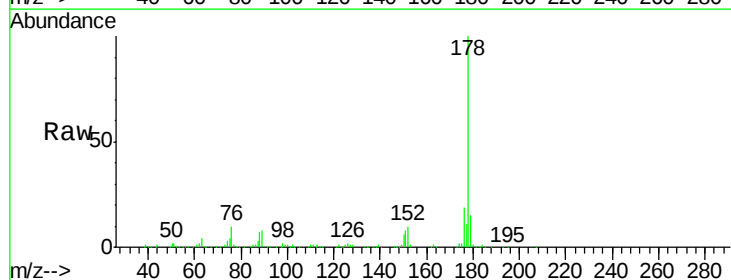
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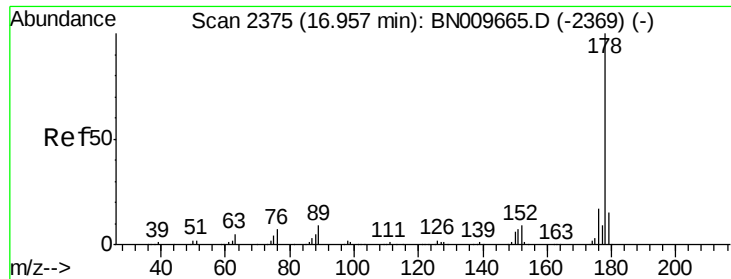
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#69  
Phenanthrene  
Concen: 10.176 ng/ul  
RT: 16.86 min Scan# 2359  
Delta R.T. -0.01 min  
Lab File: BN009669.D  
Acq: 08 Feb 2020 05:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.1  | 12.2  | 18.2  |
| 176     | 18.7  | 14.8  | 22.2  |





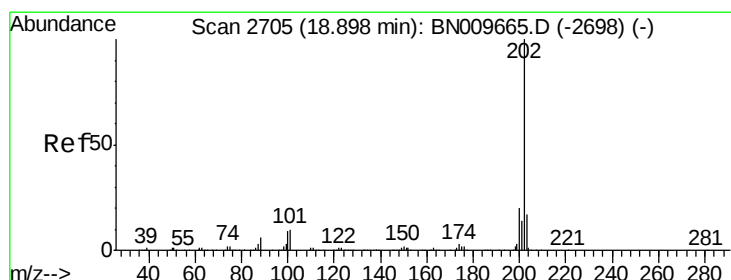
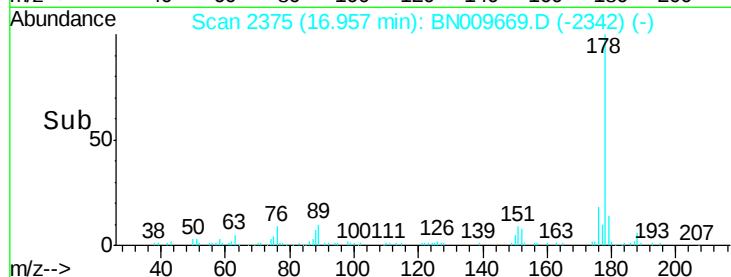
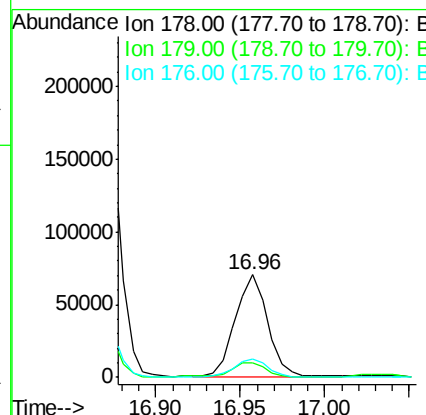
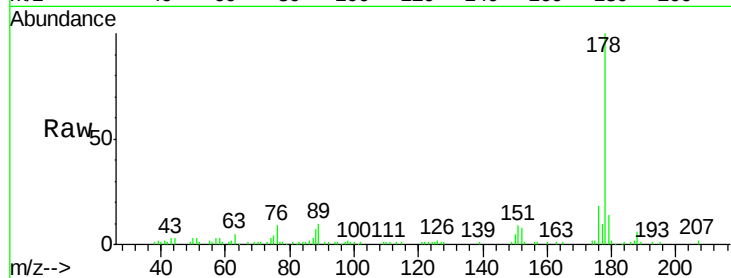
#71  
 Anthracene  
 Concen: 2.080 ng/ul  
 RT: 16.96 min Scan# 2375  
 Delta R.T. -0.01 min  
 Lab File: BN009669.D  
 Acq: 08 Feb 2020 05:23

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB6K6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.3  | 12.1  | 18.1  |
| 176     | 17.8  | 14.6  | 21.8  |

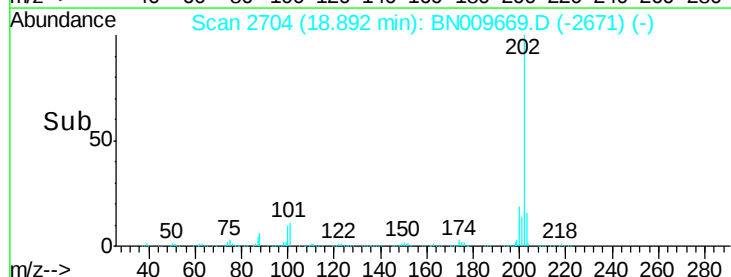
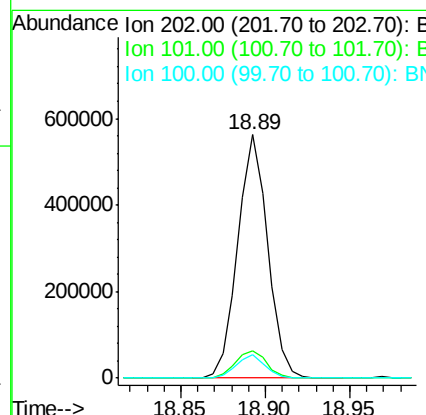
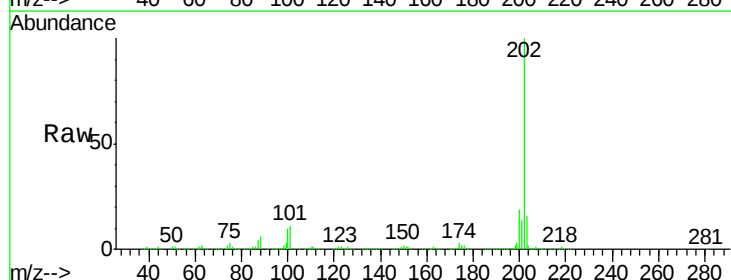
Manual Integrations  
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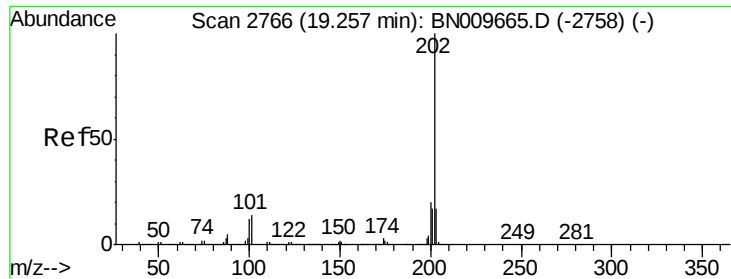
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#76  
 Fluoranthene  
 Concen: 13.462 ng/ul  
 RT: 18.89 min Scan# 2704  
 Delta R.T. -0.01 min  
 Lab File: BN009669.D  
 Acq: 08 Feb 2020 05:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.3  | 9.2   | 13.8  |
| 100     | 9.6   | 6.9   | 10.3  |





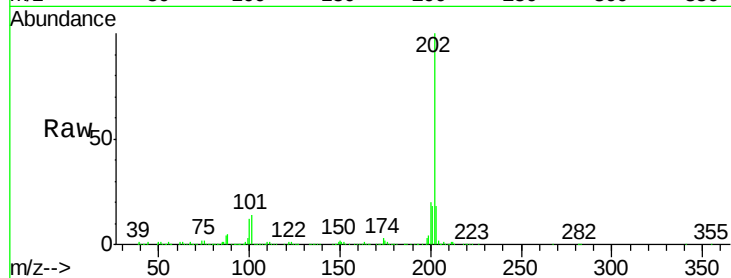
#79  
Pvrene  
Concen: 10.985 ng/ul  
RT: 19.26 min Scan# 2766  
Delta R.T. -0.01 min  
Lab File: BN009669.D  
Acq: 08 Feb 2020 05:23

Instrument :  
BNA\_N  
ClientSampleId :  
CB6K6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.3  | 10.3  | 15.5  |
| 100     | 11.6  | 8.4   | 12.6  |

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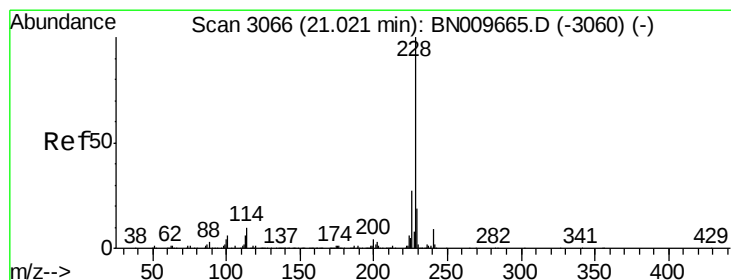
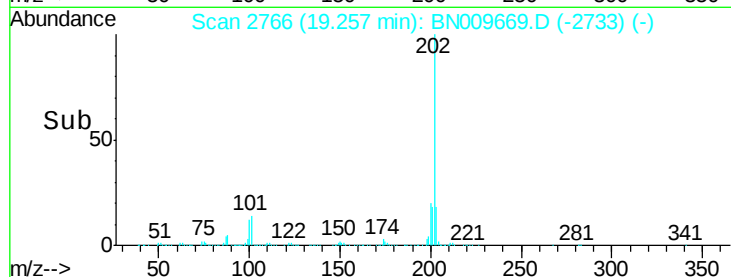
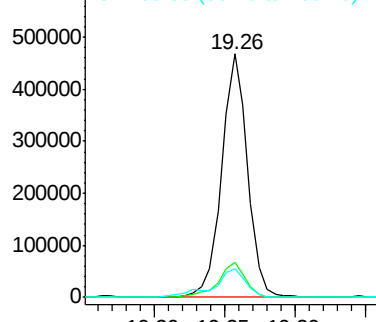


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



#82  
Benzo(a)anthracene  
Concen: 5.871 ng/ul  
RT: 21.02 min Scan# 3066  
Delta R.T. -0.01 min  
Lab File: BN009669.D  
Acq: 08 Feb 2020 05:23

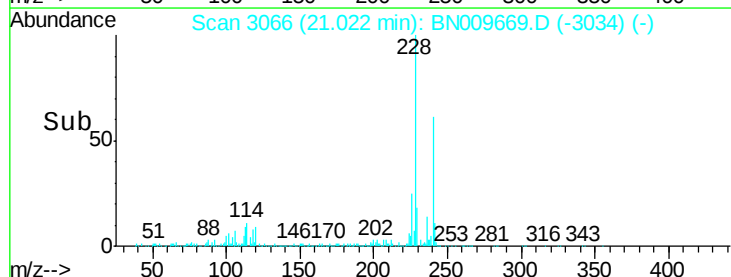
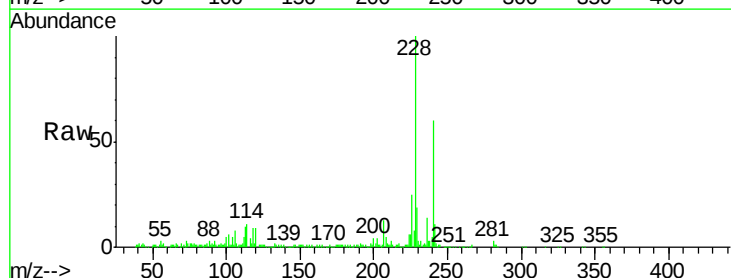
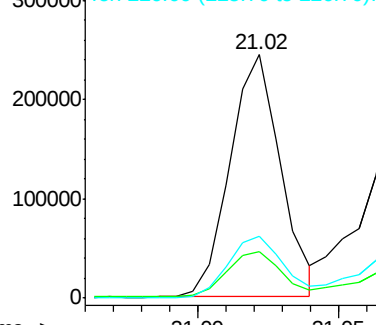
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 18.9  | 15.0  | 22.4  |
| 226     | 25.5  | 20.9  | 31.3  |

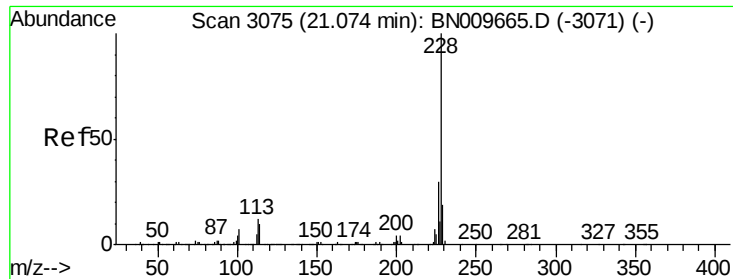
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





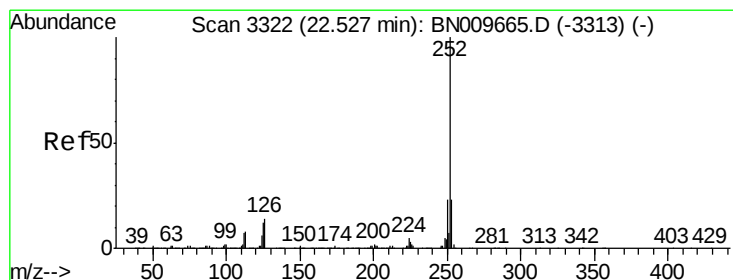
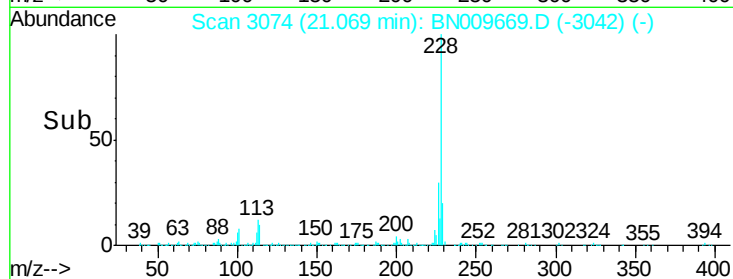
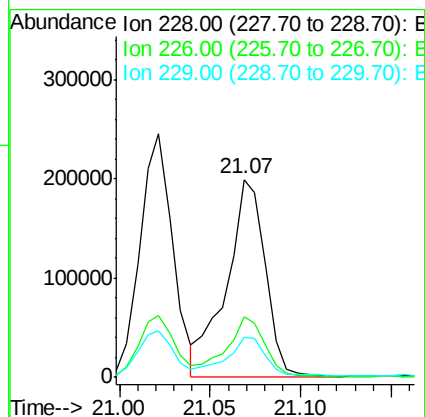
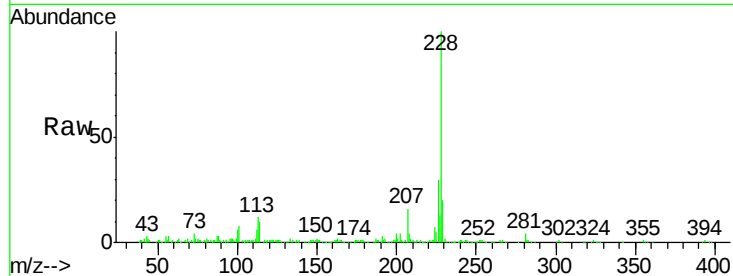
#84  
Chrysene  
Concen: 5.724 ng/ul  
RT: 21.07 min Scan# 3074  
Delta R.T. -0.01 min  
Lab File: BN009669.D  
Acq: 08 Feb 2020 05:23

Instrument :  
BNA\_N  
ClientSampled :  
CB6K6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 295427 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.4  | 23.5  | 35.3   |
| 229       | 20.1  | 15.8  | 23.8   |

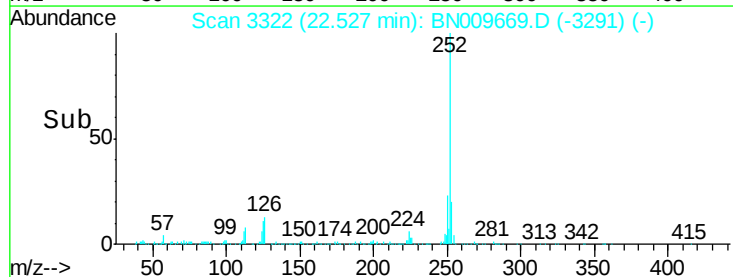
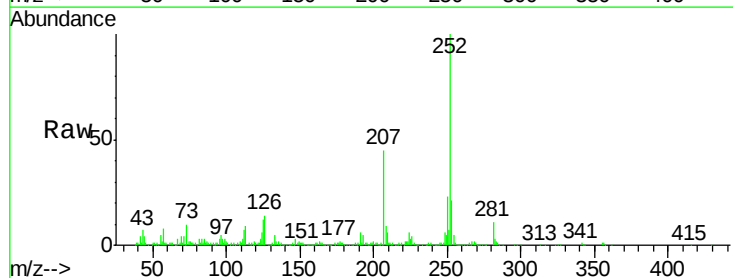
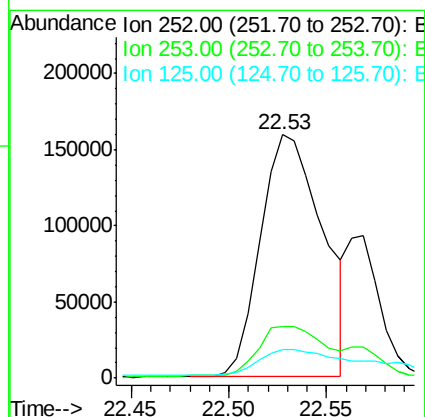
Manual Integrations  
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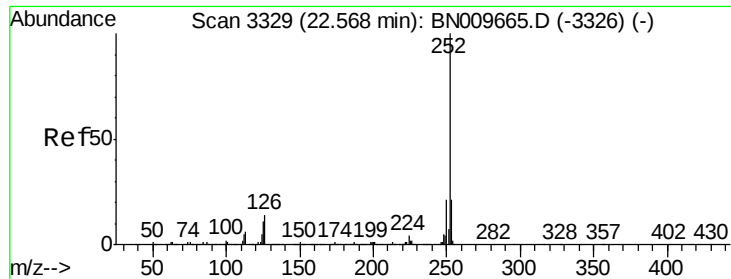
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2/11/2020 8:24:27 AM



#87  
Benzo(b)fluoranthene  
Concen: 7.477 ng/ul  
RT: 22.53 min Scan# 3322  
Delta R.T. -0.02 min  
Lab File: BN009669.D  
Acq: 08 Feb 2020 05:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 351764 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.3  | 17.0  | 25.6   |
| 125       | 11.6  | 8.2   | 12.2   |





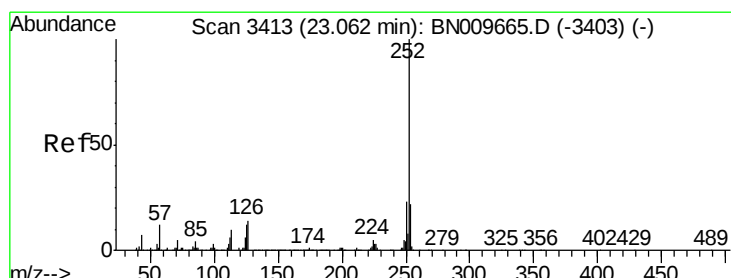
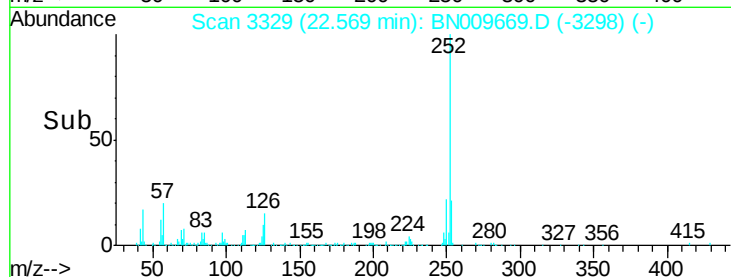
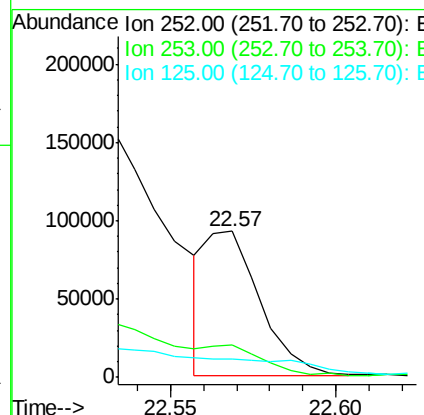
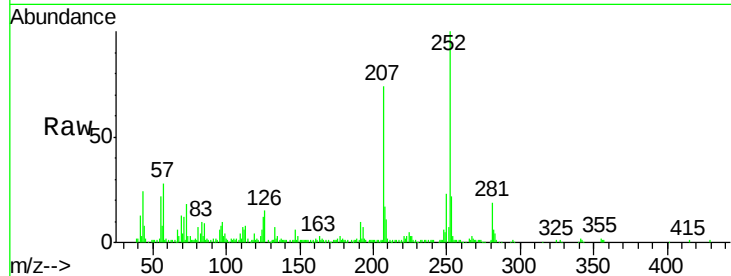
#88  
Benzo(k)fluoranthene  
Concen: 2.277 ng/ul  
RT: 22.57 min Scan# 3329  
Delta R.T. -0.02 min  
Lab File: BN009669.D  
Acq: 08 Feb 2020 05:23

Instrument :  
BNA\_N  
ClientSampled :  
CB6K6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.0  | 25.4  |
| 125     | 12.3  | 8.0   | 12.0  |

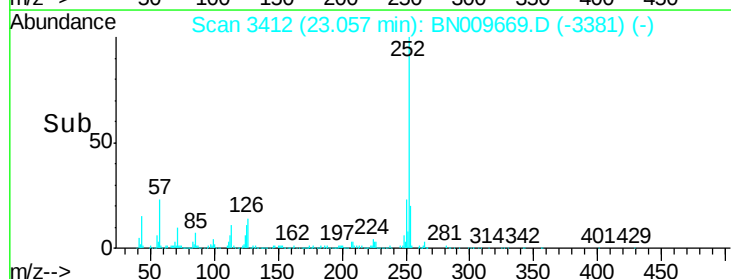
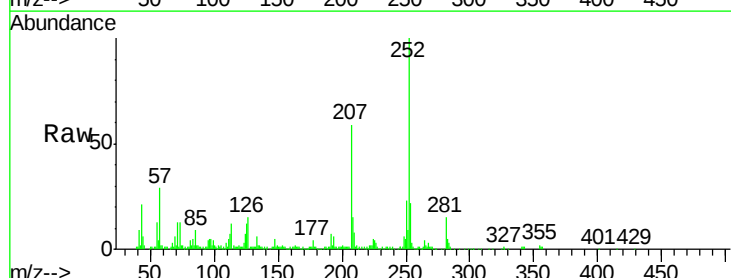
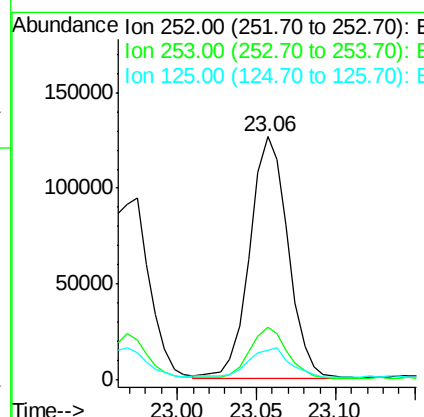
Manual Integrations  
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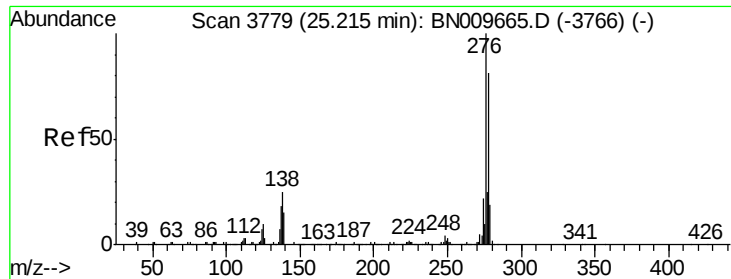
mohammad  
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#90  
Benzo(a)pyrene  
Concen: 4.867 ng/ul  
RT: 23.06 min Scan# 3412  
Delta R.T. -0.02 min  
Lab File: BN009669.D  
Acq: 08 Feb 2020 05:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 15.8  | 23.8  |
| 125     | 12.5  | 8.7   | 13.1  |





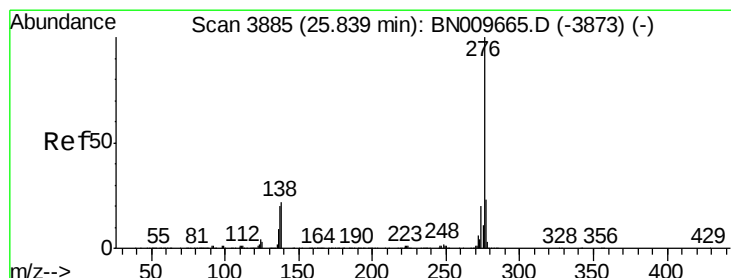
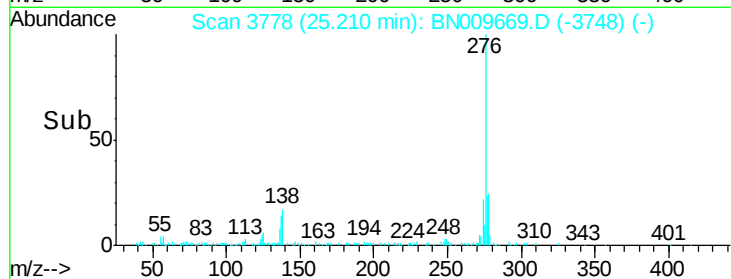
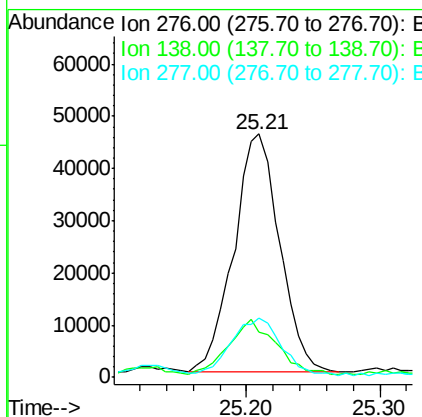
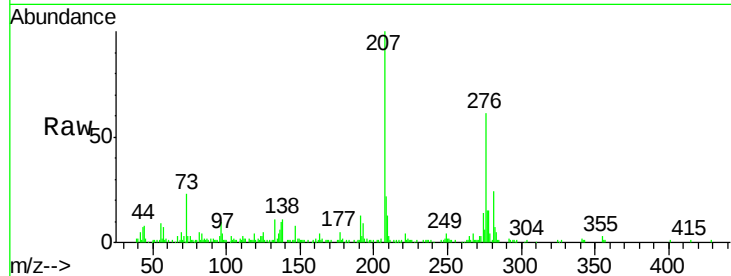
#91  
Indeno(1,2,3-cd)pyrene  
Concen: 2.105 ng/ul  
RT: 25.21 min Scan# 3778  
Delta R.T. -0.02 min  
Lab File: BN009669.D  
Acq: 08 Feb 2020 05:23

Instrument :  
BNA\_N  
ClientSampleId :  
CB6K6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.5  | 20.3  | 30.5# |
| 277     | 24.4  | 21.2  | 31.8  |

Manual Integrations  
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#93  
Benzo(g,h,i)perylene  
Concen: 2.332 ng/ul  
RT: 25.83 min Scan# 3884  
Delta R.T. -0.02 min  
Lab File: BN009669.D  
Acq: 08 Feb 2020 05:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.4  | 16.0  | 24.0  |
| 277     | 22.7  | 17.0  | 25.6  |

