

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP121420\  
 Data File : BP004313.D  
 Acq On : 15 Dec 2020 20:16  
 Operator : CG/JU  
 Sample : L5001-10DL 5X  
 Misc :  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleID :  
 A54C8DL

Manual Integrations  
 APPROVED

mohammad  
 12/17/2020 9:53:09 AM

Quant Time: Dec 16 01:39:39 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP121020MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 15 09:00:06 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.85  | 152  | 321412   | 20.00 | ng/ul | 0.01     |
| 18) Naphthalene-d8        | 10.64 | 136  | 1325477  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.49 | 164  | 831079   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.26 | 188  | 1837847  | 20.00 | ng/ul | 0.01     |
| 78) Chrysene-d12          | 21.35 | 240  | 1784920  | 20.00 | ng/ul | 0.01     |
| 86) Perylene-d12          | 23.72 | 264  | 2013007  | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.33  | 96  | 1541   | 0.17 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.00  | 99  | 28441  | 1.07 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.18  | 67  | 15996  | 0.96 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.38  | 132 | 22486  | 1.11 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.55  | 113 | 21027  | 1.05 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.00  | 128 | 11377  | 1.05 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.72  | 143 | 11851  | 1.32 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.26 | 165 | 24130  | 1.23 | ng/ul | 0.01 |
| 29) 4-Chloroaniline-d4         | 10.77 | 131 | 22940  | 0.94 | ng/ul | 0.01 |
| 44) Dimethylphthalate-d6       | 13.89 | 166 | 74168  | 1.17 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.18 | 160 | 98276  | 1.21 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.69 | 143 | 8853   | 0.83 | ng/ul | 0.01 |
| 58) Fluorene-d10               | 15.49 | 176 | 66760  | 1.16 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.62 | 200 | 709    | 0.08 | ng/ul | 0.01 |
| 71) Anthracene-d10             | 17.35 | 188 | 121048 | 1.35 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.59 | 212 | 132352 | 1.42 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.57 | 264 | 141498 | 1.33 | ng/ul | 0.02 |

## Target Compounds

|                            |       |     |         |        | Ovalue |     |
|----------------------------|-------|-----|---------|--------|--------|-----|
| 70) Phenanthrene           | 17.30 | 178 | 924184  | 8.524  | ng/ul  | 100 |
| 72) Anthracene             | 17.39 | 178 | 154849  | 1.444  | ng/ul  | 99  |
| 75) Carbazole              | 17.66 | 167 | 115290  | 1.321  | ng/ul  | 99  |
| 77) Fluoranthene           | 19.27 | 202 | 1378168 | 11.904 | ng/ul  | 97  |
| 80) Pyrene                 | 19.62 | 202 | 1142203 | 9.487  | ng/ul  | 97  |
| 83) Benzo(a)anthracene     | 21.33 | 228 | 564412  | 4.797  | ng/ul  | 97  |
| 85) Chrysene               | 21.39 | 228 | 535694  | 4.641  | ng/ul  | 96  |
| 88) Benzo(b)fluoranthene   | 23.00 | 252 | 711198  | 5.571  | ng/ul# | 93  |
| 89) Benzo(k)fluoranthene   | 23.04 | 252 | 231869m | 1.769  | ng/ul  |     |
| 91) Benzo(a)pyrene         | 23.62 | 252 | 483340  | 4.057  | ng/ul# | 91  |
| 92) Indeno(1,2,3-cd)pyrene | 26.16 | 276 | 335720  | 2.247  | ng/ul  | 94  |
| 94) Benzo(g,h,i)perylene   | 26.91 | 276 | 266689  | 2.128  | ng/ul# | 92  |

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

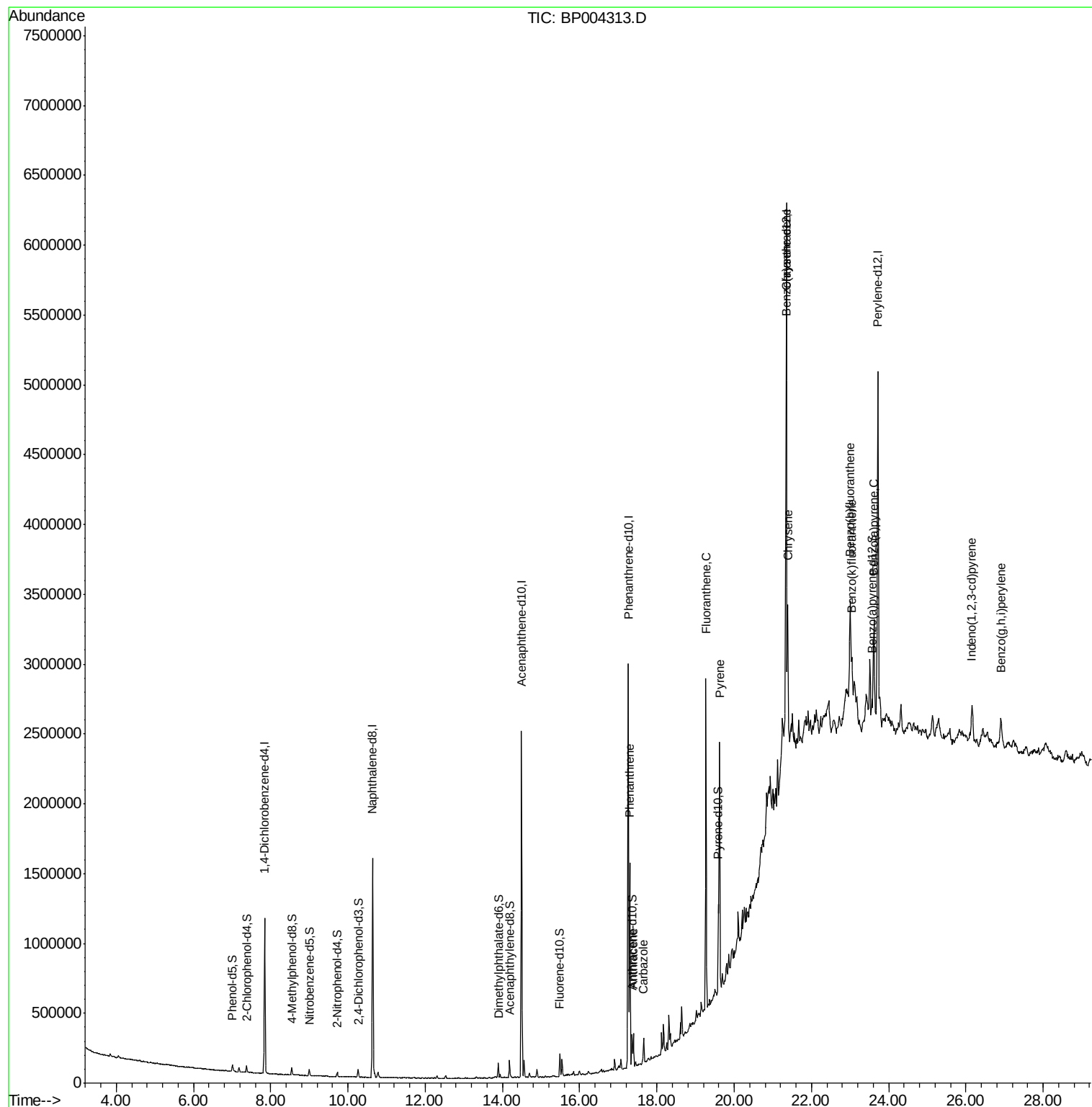
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP121420\  
Data File : BP004313.D  
Acq On : 15 Dec 2020 20:16  
Operator : CG/JU  
Sample : L5001-10DL 5X  
Misc :  
ALS Vial : 48 Sample Multiplier: 1

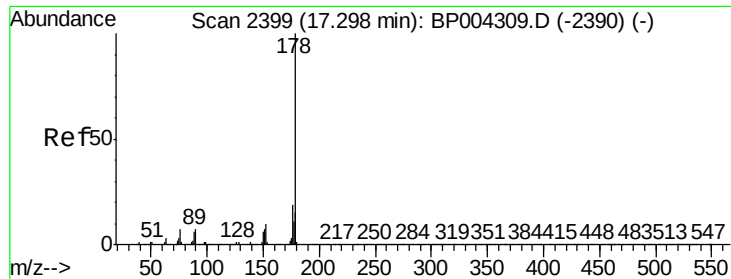
Instrument :  
BNA\_P  
ClientSampleId :  
A54C8DL

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Quant Time: Dec 16 01:39:39 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP121020MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 15 09:00:06 2020  
Response via : Initial Calibration





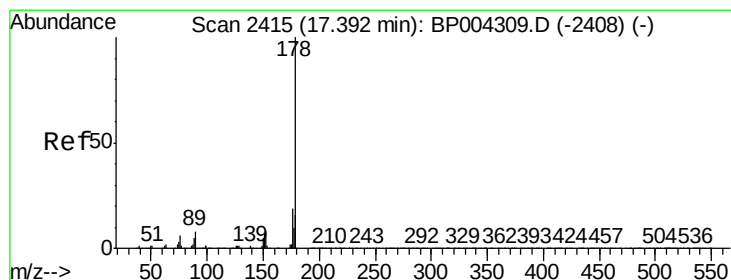
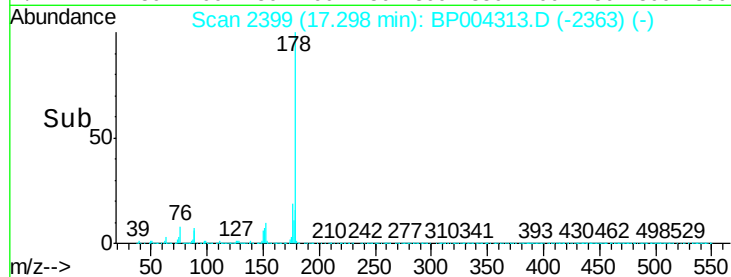
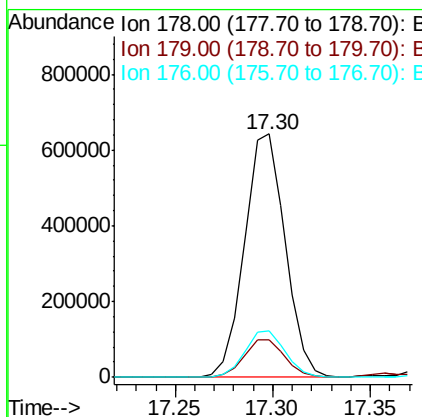
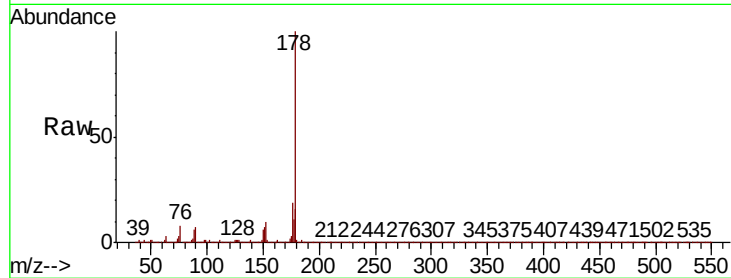
#70  
Phenanthrene  
Concen: 8.524 ng/ul  
RT: 17.30 min Scan# 2399  
Delta R.T. 0.01 min  
Lab File: BP004313.D  
Acq: 15 Dec 2020 20:16

Instrument :  
BNA\_P  
ClientSampleId :  
A54C8DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 924184 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.5  | 12.4  | 18.6   |
| 176       | 19.0  | 15.4  | 23.0   |

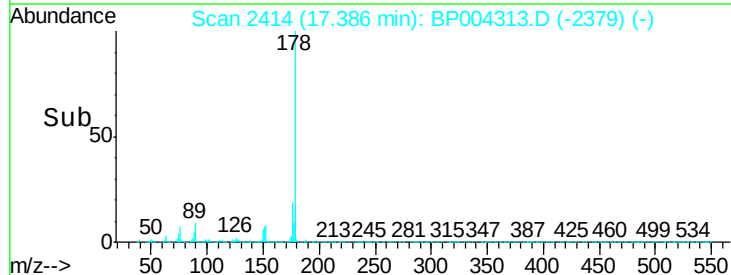
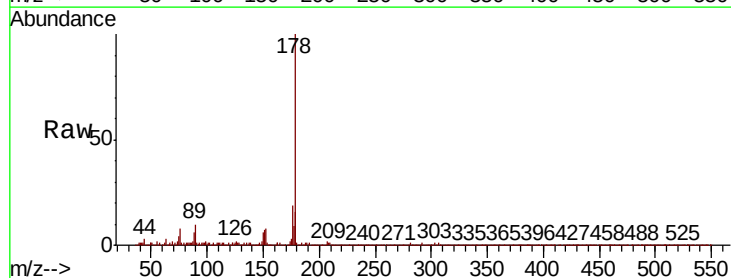
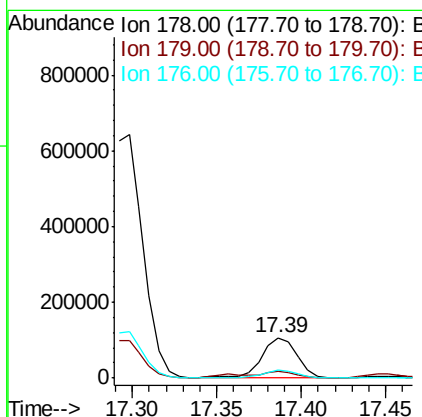
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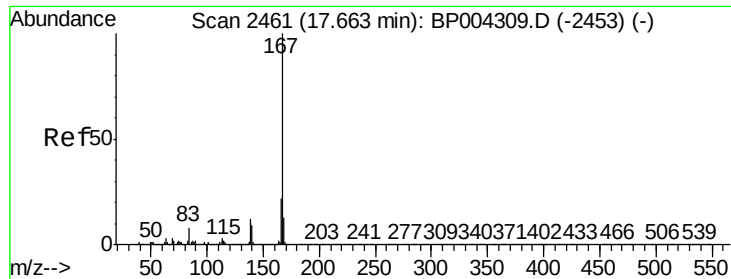
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#72  
Anthracene  
Concen: 1.444 ng/ul  
RT: 17.39 min Scan# 2414  
Delta R.T. 0.01 min  
Lab File: BP004313.D  
Acq: 15 Dec 2020 20:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 154849 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.0  | 12.3  | 18.5   |
| 176       | 18.8  | 14.9  | 22.3   |





#75

Carbazole

Concen: 1.321 ng/ul

RT: 17.66 min Scan# 2460

Delta R.T. 0.01 min

Lab File: BP004313.D

Acq: 15 Dec 2020 20:16

Instrument :

BNA\_P

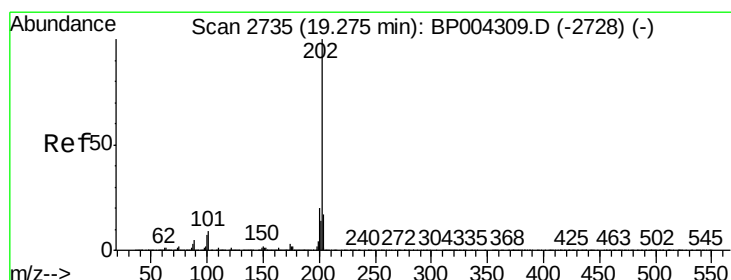
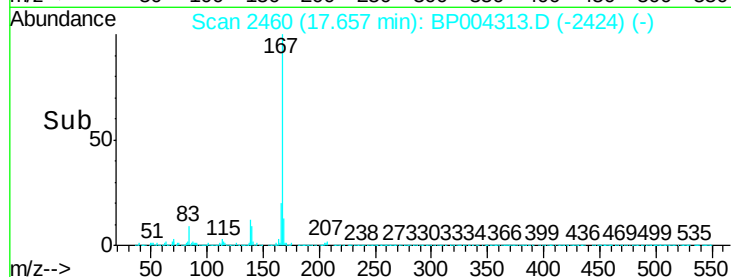
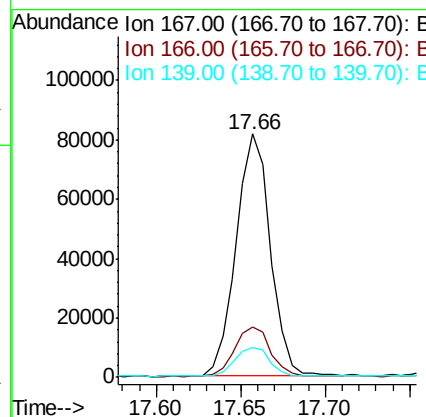
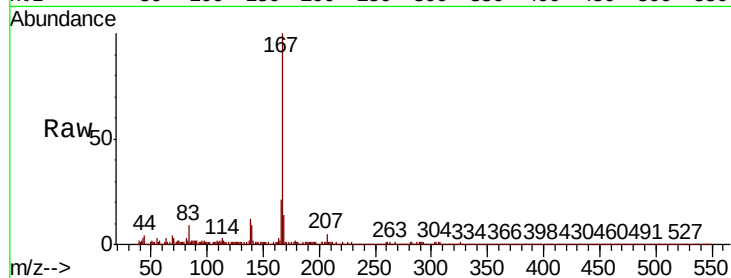
ClientSampleID :

A54C8DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 167   | Resp: | 115290 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 20.7  | 17.1  | 25.7   |
| 139       | 12.4  | 9.8   | 14.6   |

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#77

Fluoranthene

Concen: 11.904 ng/ul

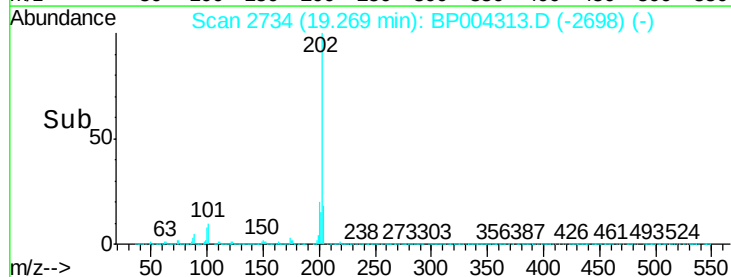
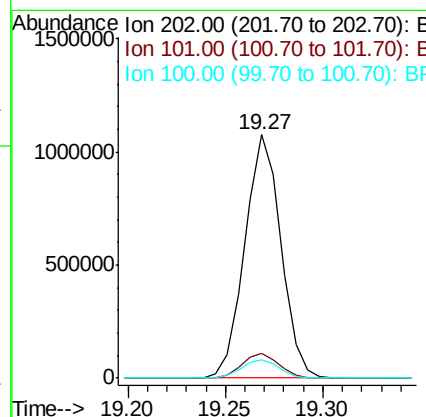
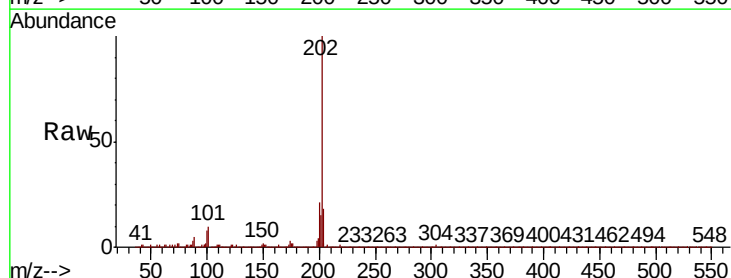
RT: 19.27 min Scan# 2734

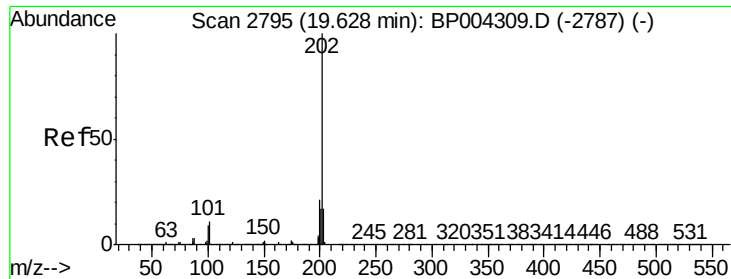
Delta R.T. 0.01 min

Lab File: BP004313.D

Acq: 15 Dec 2020 20:16

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1378168 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 10.4  | 9.1   | 13.7    |
| 100       | 7.7   | 7.1   | 10.7    |





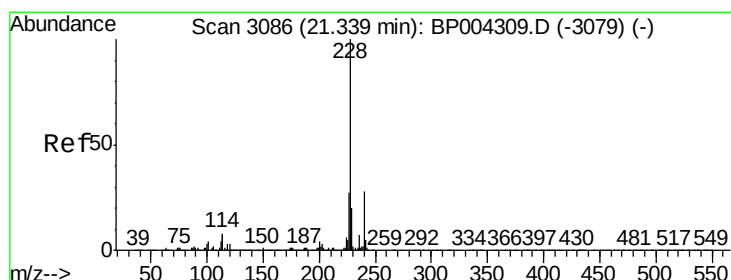
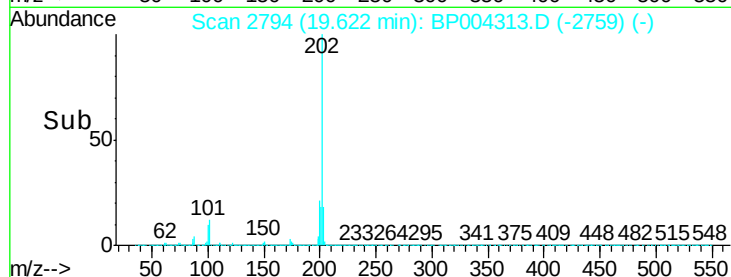
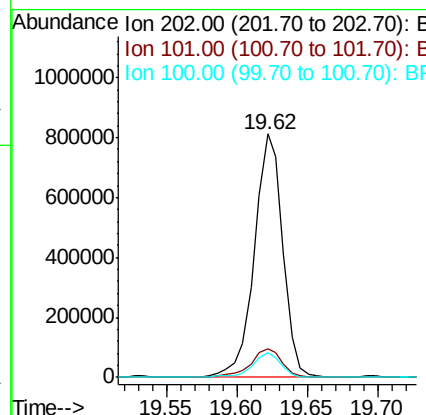
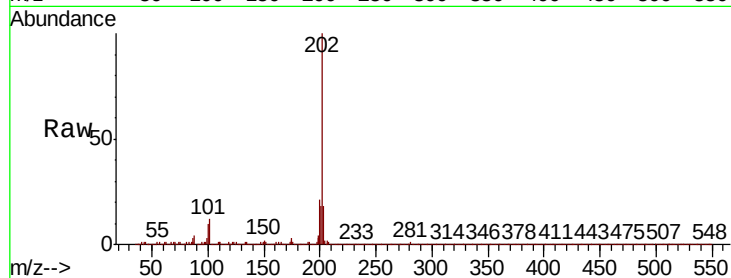
#80  
Pvrene  
Concen: 9.487 ng/ul  
RT: 19.62 min Scan# 2794  
Delta R.T. 0.01 min  
Lab File: BP004313.D  
Acq: 15 Dec 2020 20:16

Instrument :  
BNA\_P  
ClientSampleId :  
A54C8DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.5  | 10.6  | 15.8  |
| 100     | 9.9   | 8.6   | 12.8  |

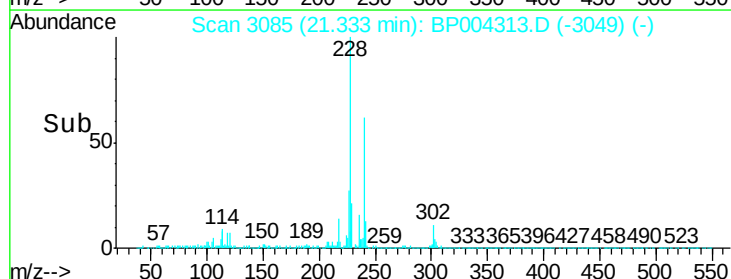
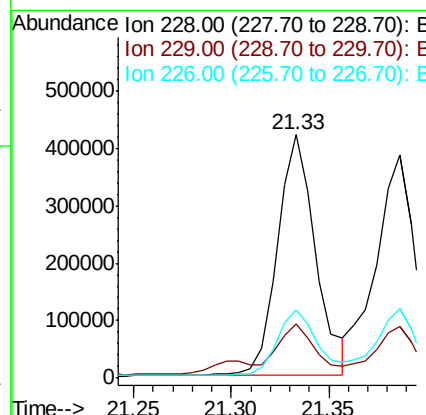
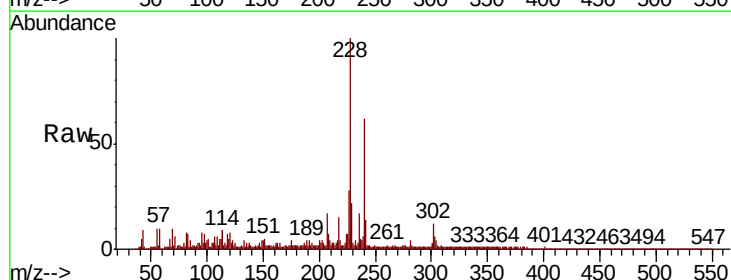
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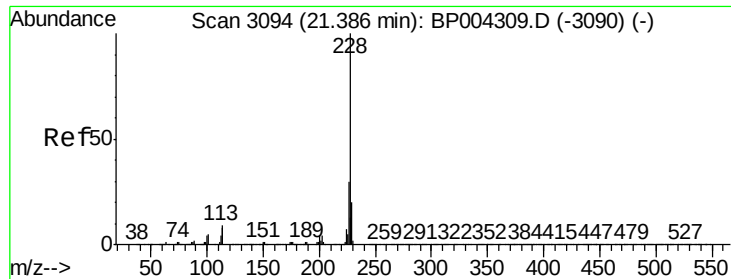
mohammad  
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#83  
Benzo(a)anthracene  
Concen: 4.797 ng/ul  
RT: 21.33 min Scan# 3085  
Delta R.T. 0.01 min  
Lab File: BP004313.D  
Acq: 15 Dec 2020 20:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.2  | 15.8  | 23.8  |
| 226     | 28.1  | 21.7  | 32.5  |





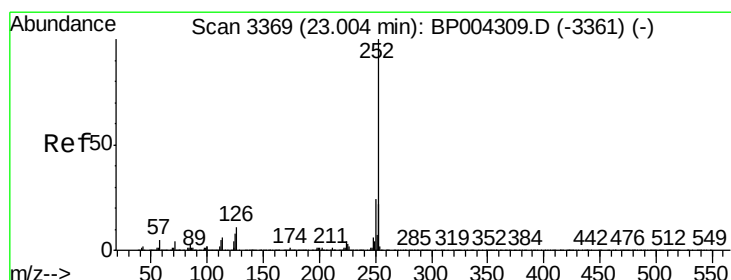
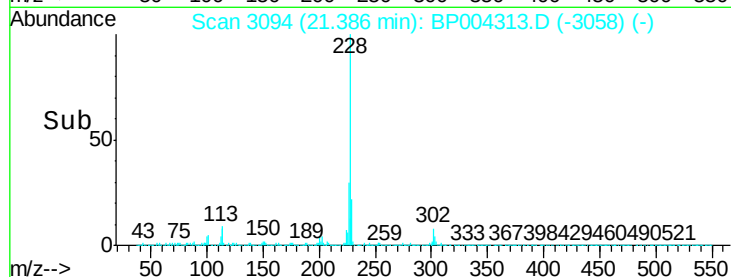
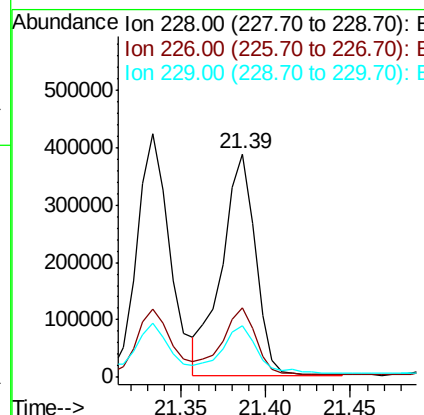
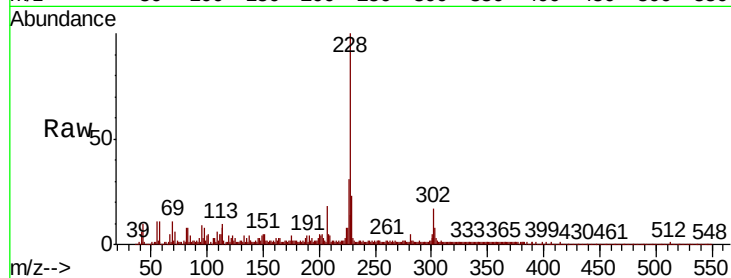
#85  
Chrysene  
Concen: 4.641 ng/ul  
RT: 21.39 min Scan# 3094  
Delta R.T. 0.01 min  
Lab File: BP004313.D  
Acq: 15 Dec 2020 20:16

Instrument :  
BNA\_P  
ClientSampled :  
A54C8DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 535694 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.0  | 24.2  | 36.2   |
| 229       | 23.0  | 15.8  | 23.8   |

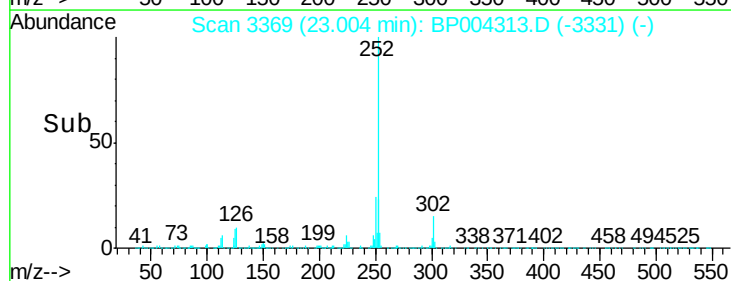
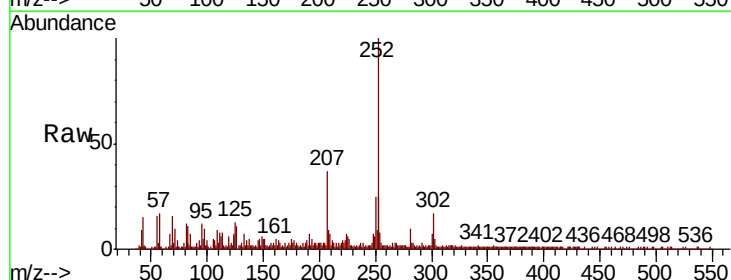
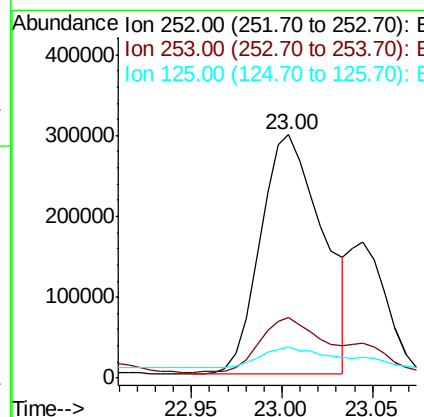
Manual Integrations  
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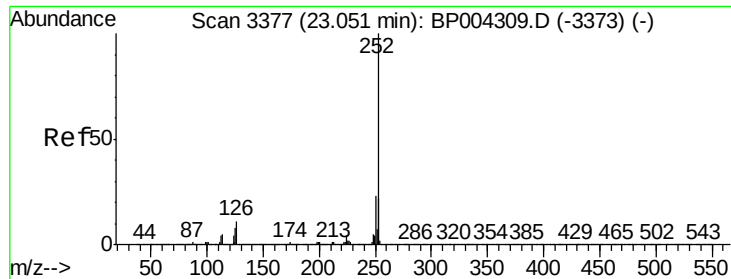
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#88  
Benzo(b)fluoranthene  
Concen: 5.571 ng/ul  
RT: 23.00 min Scan# 3369  
Delta R.T. 0.02 min  
Lab File: BP004313.D  
Acq: 15 Dec 2020 20:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 711198 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.8  | 17.6  | 26.4   |
| 125       | 12.9  | 7.7   | 11.5#  |





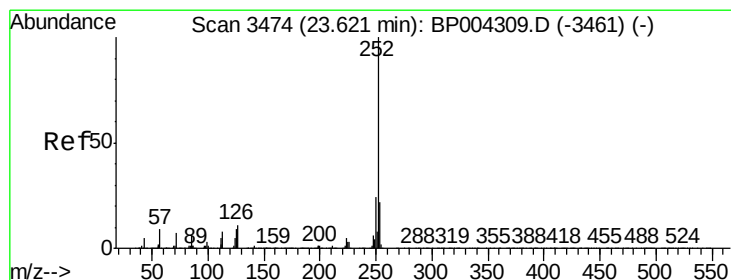
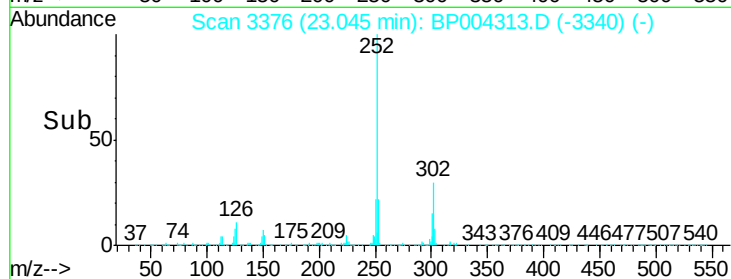
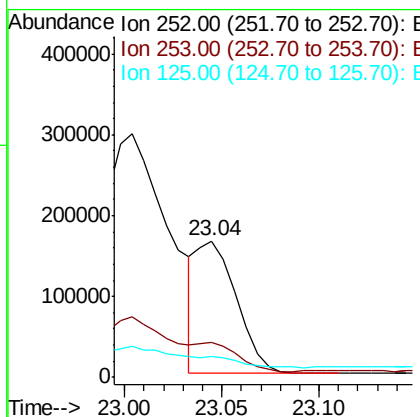
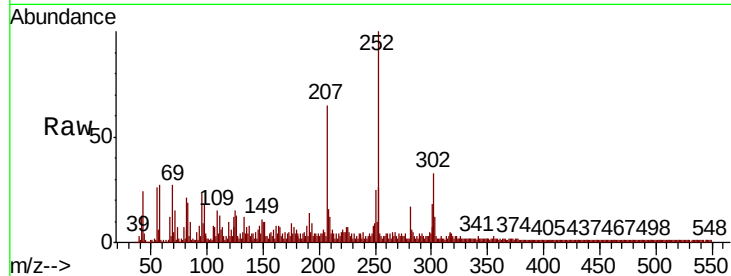
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Benzo(k)fluoranthene  
Concen: 1.769 ng/ul m  
RT: 23.04 min Scan# 3376  
Delta R.T. 0.01 min  
Lab File: BP004313.D  
Acq: 15 Dec 2020 20:16

Instrument :  
BNA\_P  
ClientSampled :  
A54C8DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.5  | 17.4  | 26.2  |
| 125     | 15.3  | 7.3   | 10.9  |

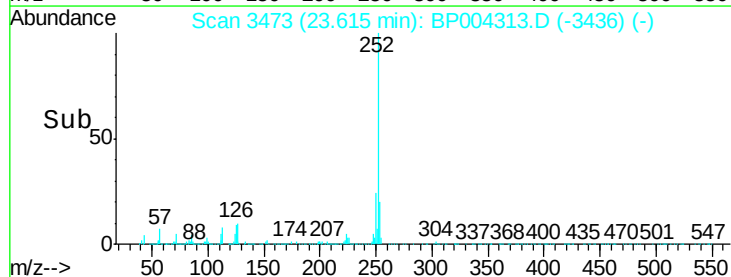
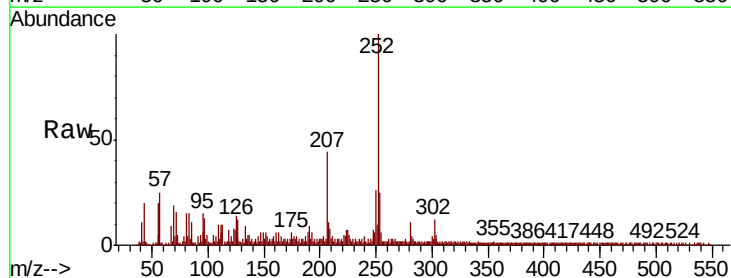
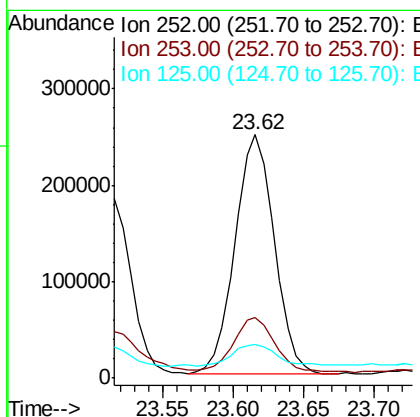
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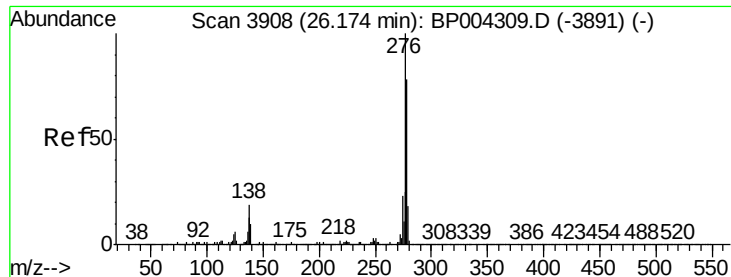
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#91  
Benzo(a)pyrene  
Concen: 4.057 ng/ul  
RT: 23.62 min Scan# 3473  
Delta R.T. 0.02 min  
Lab File: BP004313.D  
Acq: 15 Dec 2020 20:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 17.3  | 25.9  |
| 125     | 14.0  | 7.8   | 11.6  |





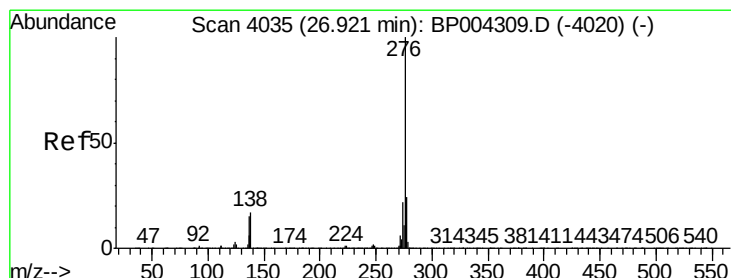
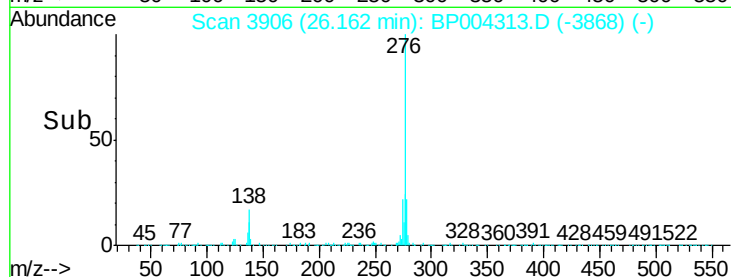
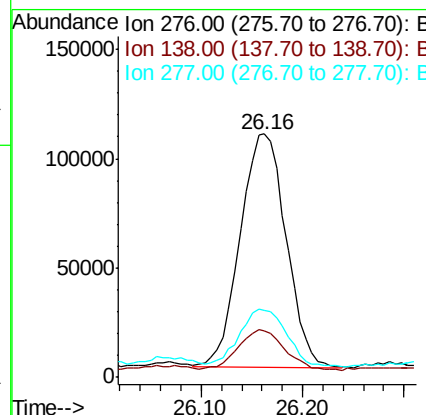
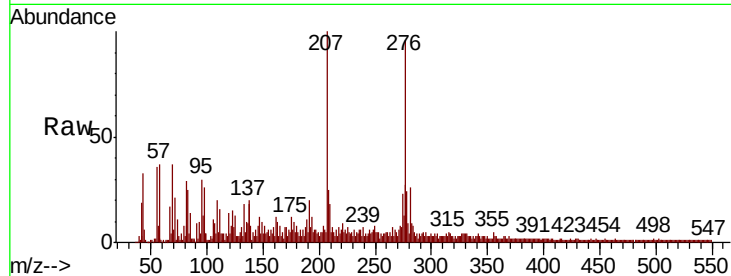
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Indeno(1,2,3-cd)pyrene  
Concen: 2.247 ng/ul  
RT: 26.16 min Scan# 3906  
Delta R.T. 0.02 min  
Lab File: BP004313.D  
Acq: 15 Dec 2020 20:16

Instrument :  
BNA\_P  
ClientSampled :  
A54C8DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.9  | 17.8  | 26.6  |
| 277     | 27.7  | 19.8  | 29.6  |

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#94  
Benzo(g,h,i)perylene  
Concen: 2.128 ng/ul  
RT: 26.91 min Scan# 4033  
Delta R.T. 0.03 min  
Lab File: BP004313.D  
Acq: 15 Dec 2020 20:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.5  | 16.6  | 25.0  |
| 277     | 29.6  | 18.5  | 27.7# |

