

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP121420\  
 Data File : BP004268.D  
 Acq On : 14 Dec 2020 11:39  
 Operator : CG/JU  
 Sample : L5063-01DL 2X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleID :  
 C0AD5DL

Manual Integrations  
 APPROVED

mohammad  
 12/17/2020 9:47:57 AM

Quant Time: Dec 14 14:38:27 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP121020MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 10 13:52:32 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.85  | 152  | 362722   | 20.00 | ng/ul | 0.01     |
| 18) Naphthalene-d8        | 10.64 | 136  | 1456833  | 20.00 | ng/ul | 0.01     |
| 36) Acenaphthene-d10      | 14.49 | 164  | 859394   | 20.00 | ng/ul | 0.02     |
| 62) Phenanthrene-d10      | 17.26 | 188  | 1735760  | 20.00 | ng/ul | 0.02     |
| 78) Chrysene-d12          | 21.36 | 240  | 1764751  | 20.00 | ng/ul | 0.04     |
| 86) Perylene-d12          | 23.74 | 264  | 2051869  | 20.00 | ng/ul | 0.07     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.33  | 96  | 10108   | 0.98  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.00  | 99  | 264487  | 8.81  | ng/ul | 0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.17  | 67  | 152052  | 8.12  | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.38  | 132 | 221895  | 9.74  | ng/ul | 0.01 |
| 13) 4-Methylphenol-d8          | 8.54  | 113 | 195509  | 8.62  | ng/ul | 0.01 |
| 19) Nitrobenzene-d5            | 9.00  | 128 | 117142  | 9.82  | ng/ul | 0.02 |
| 22) 2-Nitrophenol-d4           | 9.72  | 143 | 122638  | 12.46 | ng/ul | 0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.26 | 165 | 227262  | 10.50 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.76 | 131 | 361022  | 13.46 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.90 | 166 | 613837  | 9.35  | ng/ul | 0.02 |
| 47) Acenaphthylene-d8          | 14.18 | 160 | 851080  | 10.15 | ng/ul | 0.02 |
| 52) 4-Nitrophenol-d4           | 0.00  | 143 | 0d      | 0.00  | ng/ul |      |
| 58) Fluorene-d10               | 15.49 | 176 | 567577  | 9.54  | ng/ul | 0.02 |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0d      | 0.00  | ng/ul |      |
| 71) Anthracene-d10             | 17.36 | 188 | 875208  | 10.35 | ng/ul | 0.02 |
| 79) Pyrene-d10                 | 19.60 | 212 | 997643  | 10.85 | ng/ul | 0.03 |
| 90) Benzo(a)pyrene-d12         | 23.59 | 264 | 1093996 | 10.12 | ng/ul | 0.07 |

## Target Compounds

|                            |       |     |         | Ovalue |           |
|----------------------------|-------|-----|---------|--------|-----------|
| 28) Naphthalene            | 10.69 | 128 | 450096  | 5.450  | ng/ul# 94 |
| 34) 2-Methylnaphthalene    | 12.30 | 142 | 1433881 | 25.805 | ng/ul 98  |
| 41) 1,1'-Biphenyl          | 13.32 | 154 | 255360  | 3.543  | ng/ul 99  |
| 45) Dimethylphthalate      | 13.94 | 163 | 73163   | 1.094  | ng/ul# 68 |
| 48) Acenaphthylene         | 14.22 | 152 | 112140  | 1.348  | ng/ul# 1  |
| 50) Acenaphthene           | 14.56 | 153 | 225170  | 3.823  | ng/ul 94  |
| 54) Dibenzofuran           | 14.89 | 168 | 293453m | 3.536  | ng/ul     |
| 59) Fluorene               | 15.55 | 166 | 357011  | 5.378  | ng/ul# 82 |
| 70) Phenanthrene           | 17.30 | 178 | 4249851 | 41.501 | ng/ul 97  |
| 72) Anthracene             | 17.39 | 178 | 554317m | 5.471  | ng/ul     |
| 77) Fluoranthene           | 19.27 | 202 | 848105  | 7.756  | ng/ul# 96 |
| 80) Pyrene                 | 19.63 | 202 | 4431312 | 37.225 | ng/ul 95  |
| 83) Benzo(a)anthracene     | 21.34 | 228 | 537868  | 4.624  | ng/ul# 32 |
| 85) Chrysene               | 21.39 | 228 | 704300m | 6.172  | ng/ul     |
| 88) Benzo(b)fluoranthene   | 23.02 | 252 | 400896m | 3.081  | ng/ul     |
| 91) Benzo(a)pyrene         | 23.64 | 252 | 291483  | 2.401  | ng/ul# 24 |
| 92) Indeno(1,2,3-cd)pyrene | 26.19 | 276 | 156203  | 1.026  | ng/ul# 60 |
| 94) Benzo(g,h,i)perylene   | 26.94 | 276 | 230414  | 1.804  | ng/ul# 75 |

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

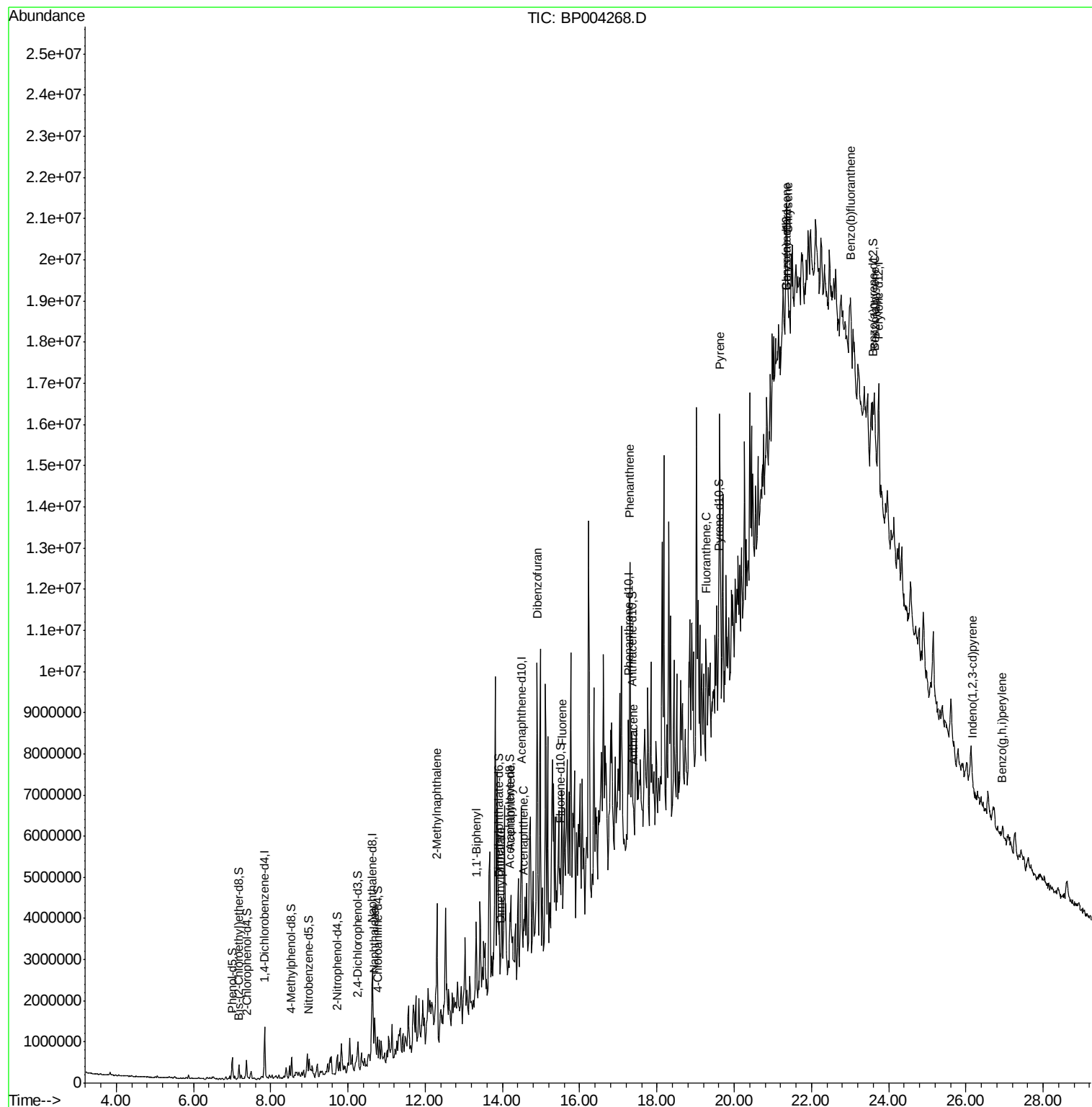
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP121420\  
Data File : BP004268.D  
Acq On : 14 Dec 2020 11:39  
Operator : CG/JU  
Sample : L5063-01DL 2X  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

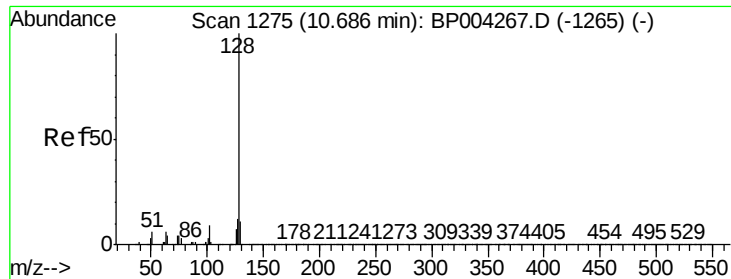
Instrument :  
BNA\_P  
ClientSampled :  
C0AD5DL

Quant Time: Dec 14 14:38:27 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP121020MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 10 13:52:32 2020  
Response via : Initial Calibration

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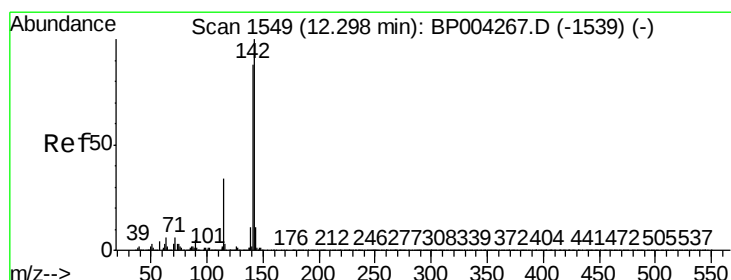
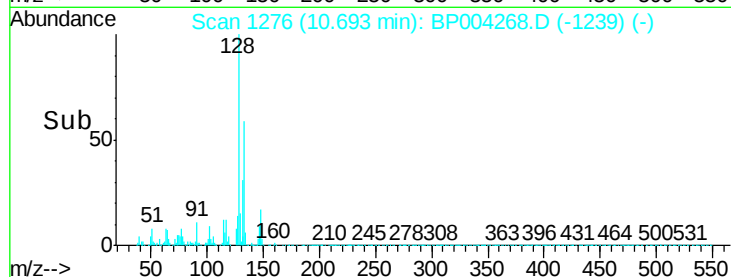
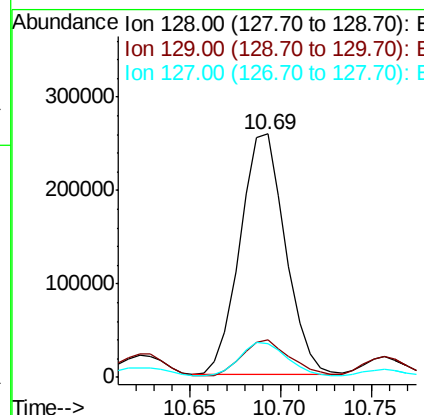
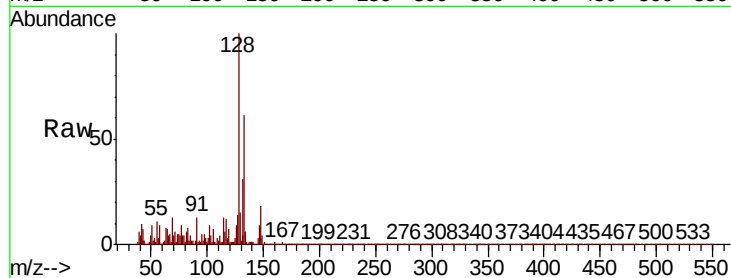
#28  
Naphthalene  
Concen: 5.450 ng/ul  
RT: 10.69 min Scan# 1276  
Delta R.T. 0.02 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

Instrument :  
BNA\_P  
ClientSampleId :  
C0AD5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 15.3  | 8.8   | 13.2# |
| 127     | 13.8  | 10.6  | 16.0  |

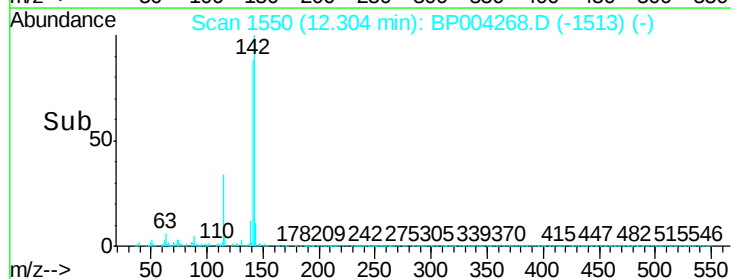
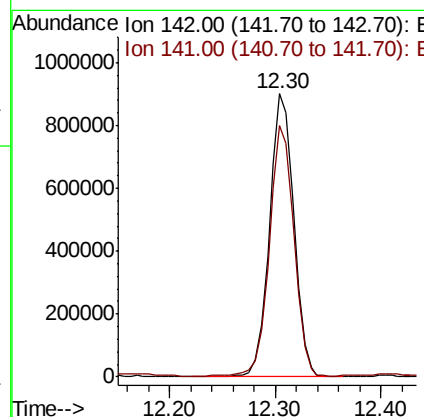
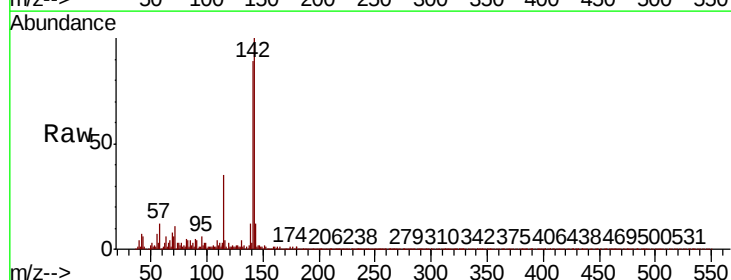
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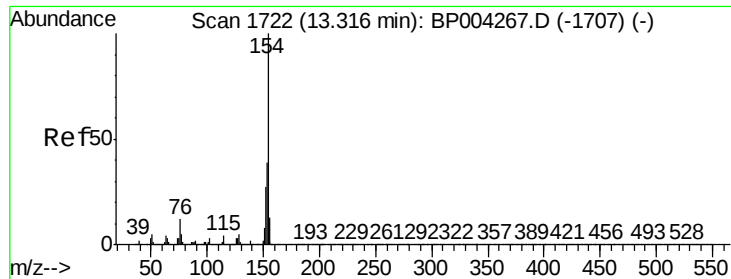
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#34  
2-Methylnaphthalene  
Concen: 25.805 ng/ul  
RT: 12.30 min Scan# 1550  
Delta R.T. 0.02 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.9  | 69.7  | 104.5 |





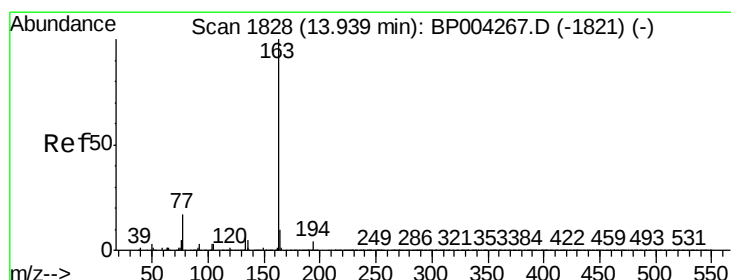
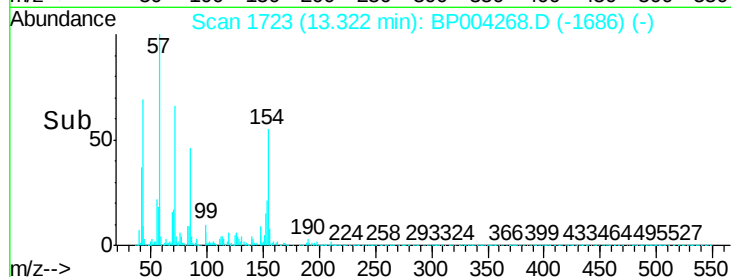
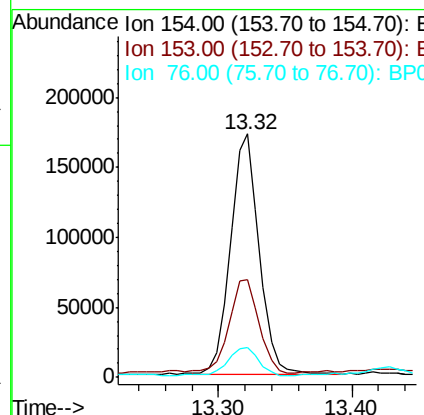
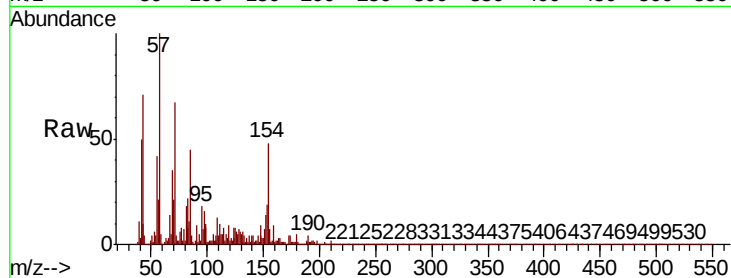
#41  
1,1'-Biphenyl  
Concen: 3.543 ng/ul  
RT: 13.32 min Scan# 1723  
Delta R.T. 0.02 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

Instrument :  
BNA\_P  
ClientSampleId :  
C0AD5DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 255360 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 40.1  | 32.2  | 48.2   |
| 76        | 12.1  | 11.0  | 16.6   |

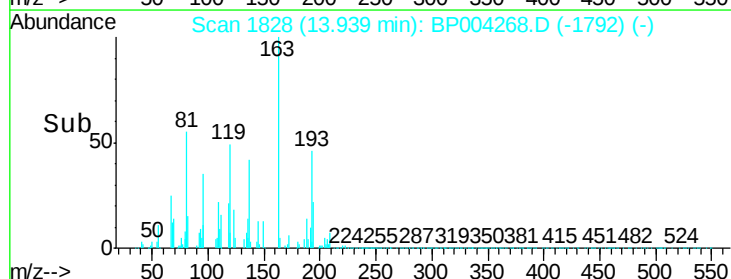
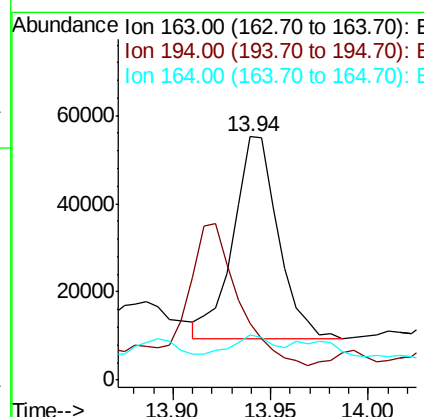
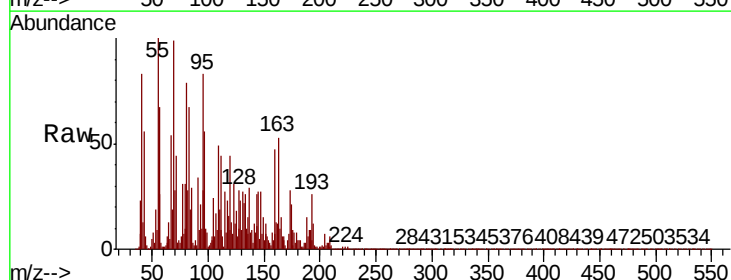
Manual Integrations  
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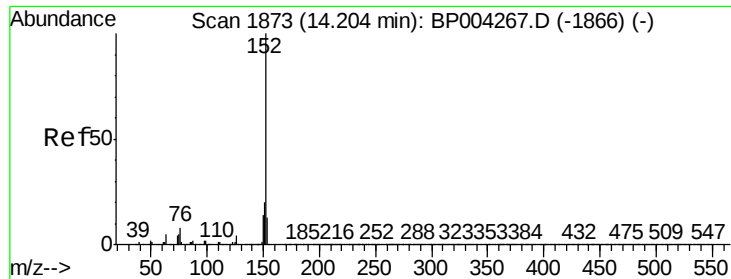
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#45  
Dimethylphthalate  
Concen: 1.094 ng/ul  
RT: 13.94 min Scan# 1828  
Delta R.T. 0.01 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 73163 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 23.5  | 3.4   | 5.2#  |
| 164       | 18.5  | 8.4   | 12.6# |





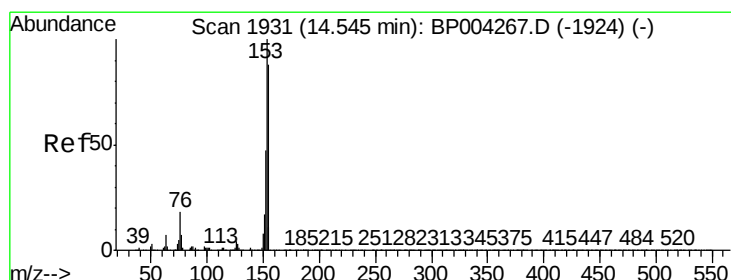
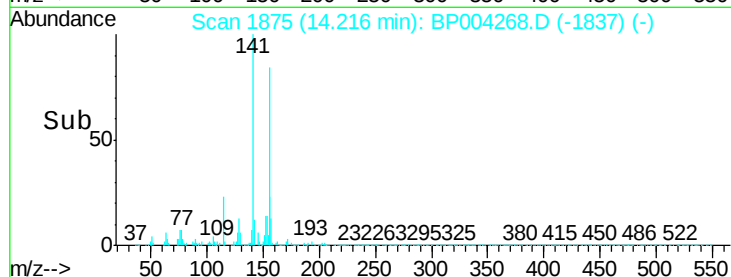
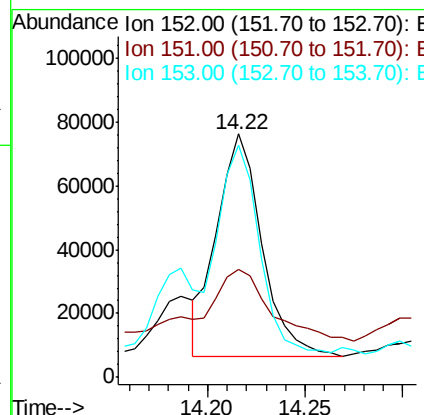
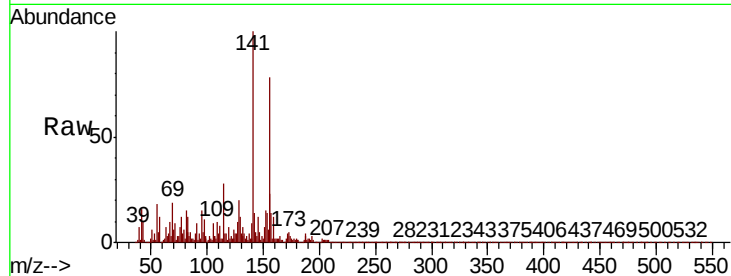
#48  
Acenaphthylene  
Concen: 1.348 ng/ul  
RT: 14.22 min Scan# 1875  
Delta R.T. 0.02 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

Instrument :  
BNA\_P  
ClientSampleId :  
C0AD5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 44.5  | 15.8  | 23.8# |
| 153     | 95.3  | 10.6  | 16.0# |

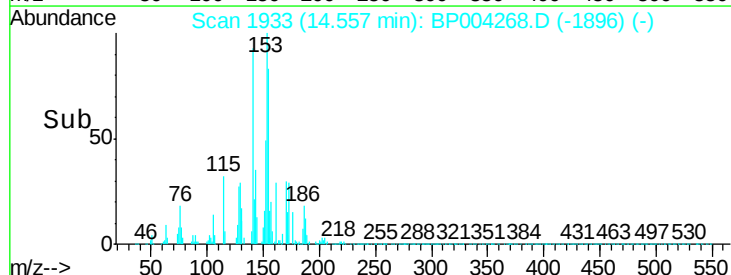
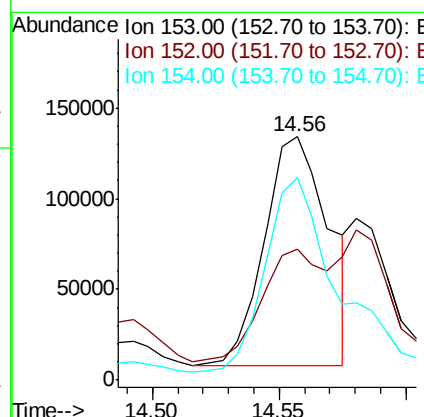
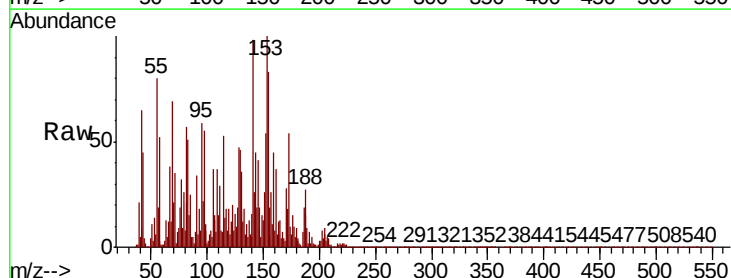
Manual Integrations  
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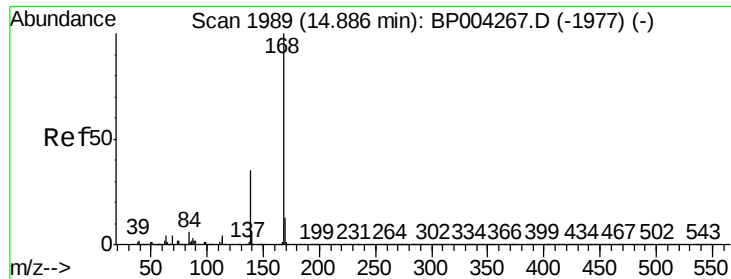
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#50  
Acenaphthene  
Concen: 3.823 ng/ul  
RT: 14.56 min Scan# 1933  
Delta R.T. 0.02 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 53.7  | 37.8  | 56.6  |
| 154     | 83.0  | 69.8  | 104.8 |





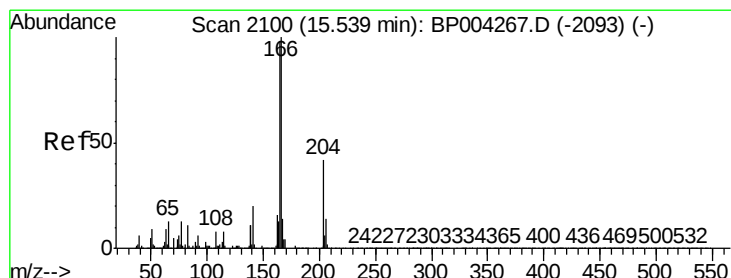
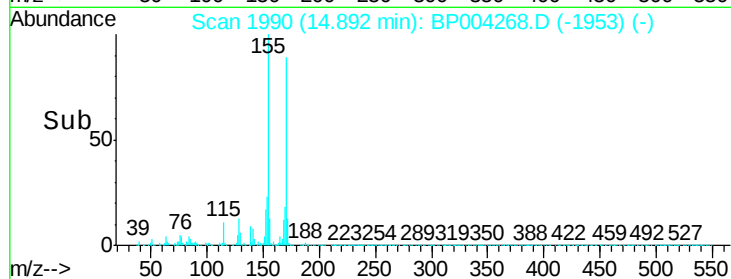
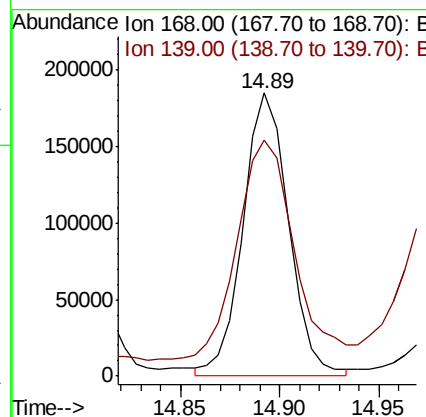
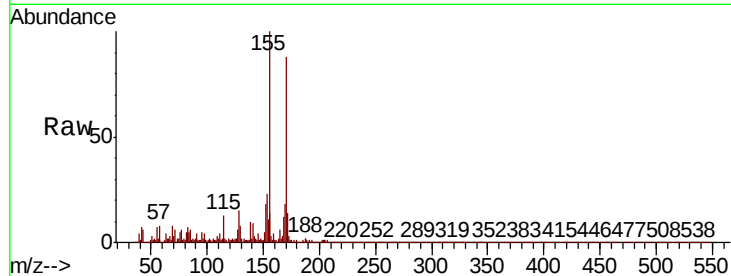
#54  
Dibenzofuran  
Concen: 3.536 ng/ul m  
RT: 14.89 min Scan# 1990  
Delta R.T. 0.02 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

Instrument :  
BNA\_P  
ClientSampleId :  
C0AD5DL

Tot Ion:168 Resp: 293453  
Ion Ratio Lower Upper  
168 100  
139 83.4 29.0 43.6#

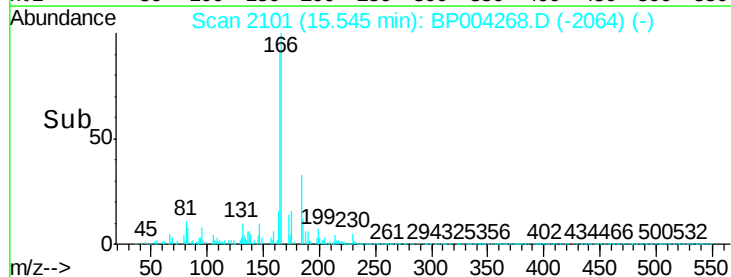
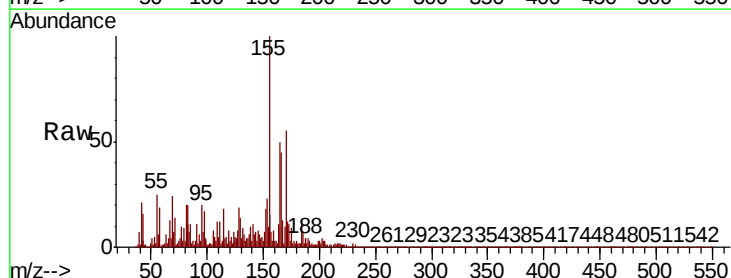
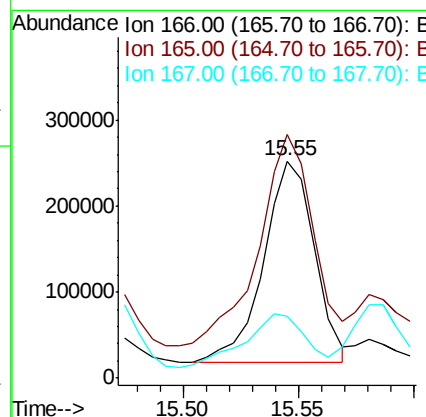
Manual Integrations  
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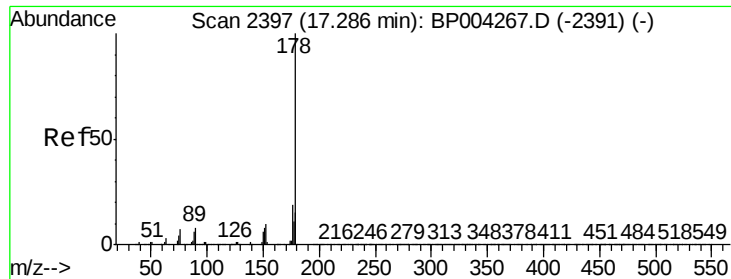
mohammad  
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#59  
Fluorene  
Concen: 5.378 ng/ul  
RT: 15.55 min Scan# 2101  
Delta R.T. 0.02 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

Tgt Ion:166 Resp: 357011  
Ion Ratio Lower Upper  
166 100  
165 112.3 78.2 117.2  
167 28.7 10.8 16.2#





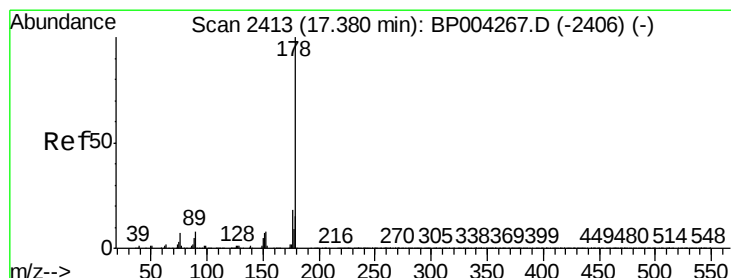
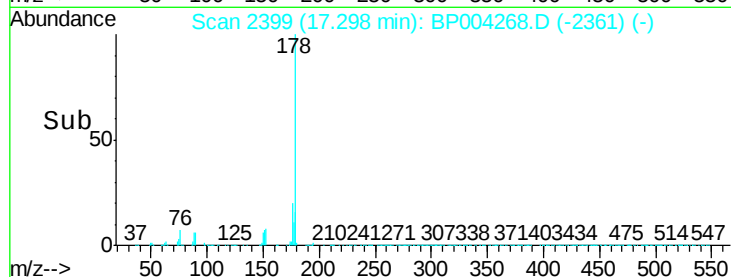
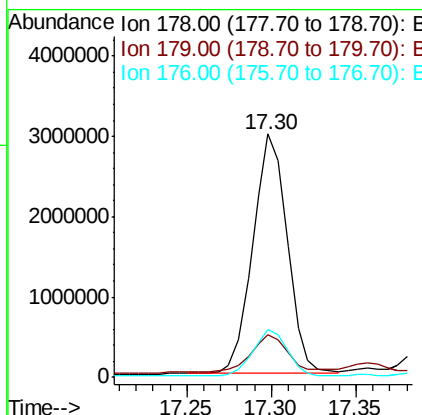
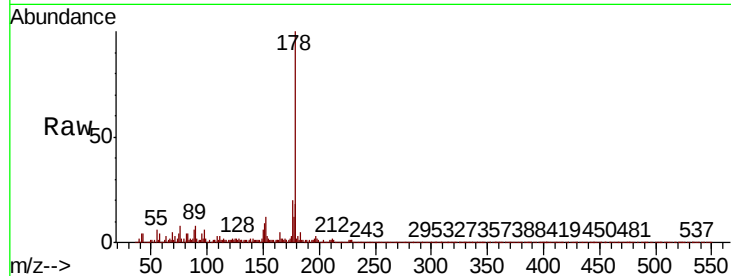
#70  
Phenanthrene  
Concen: 41.501 ng/ul  
RT: 17.30 min Scan# 2399  
Delta R.T. 0.02 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

Instrument :  
BNA\_P  
ClientSampleId :  
C0AD5DL

Tot Ion:178 Resp: 4249851  
Ion Ratio Lower Upper  
178 100  
179 17.6 12.4 18.6  
176 19.9 15.4 23.0

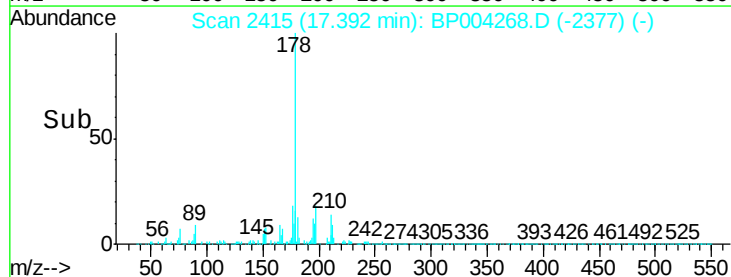
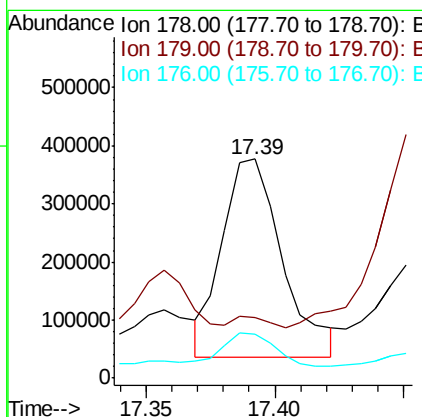
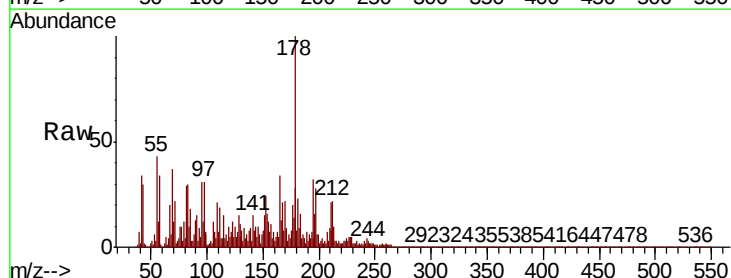
Manual Integrations  
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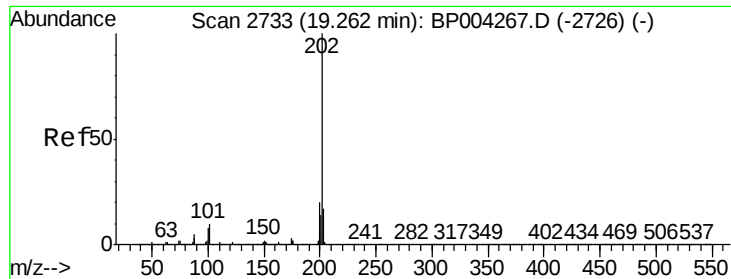
mohammad  
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#72  
Anthracene  
Concen: 5.471 ng/ul m  
RT: 17.39 min Scan# 2415  
Delta R.T. 0.02 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

Tgt Ion:178 Resp: 554317  
Ion Ratio Lower Upper  
178 100  
179 27.9 12.3 18.5#  
176 20.1 14.9 22.3





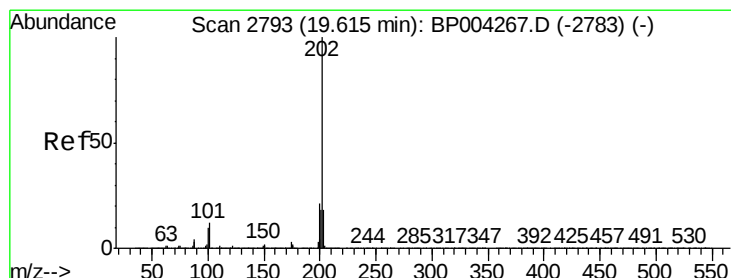
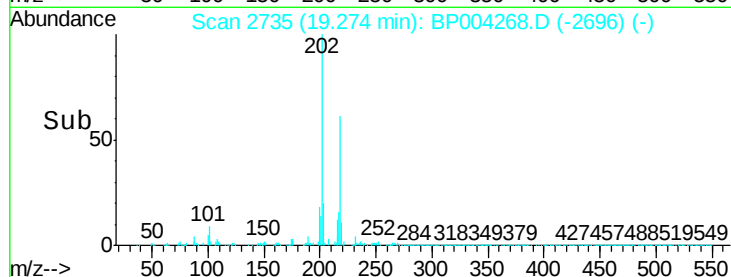
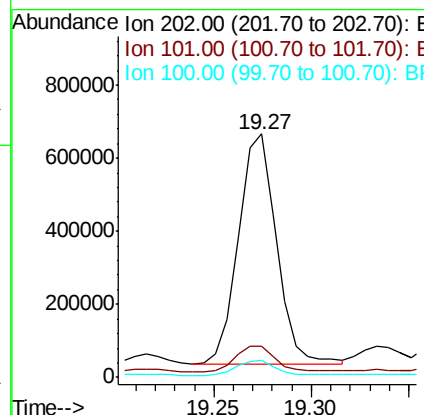
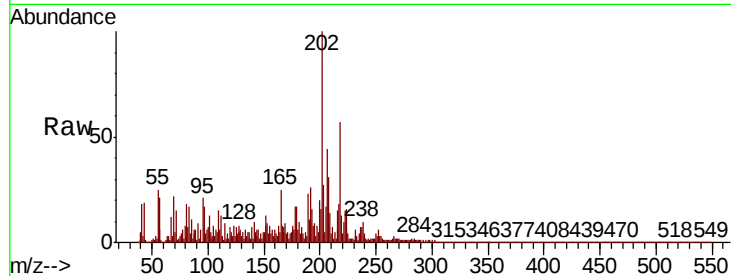
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Fluoranthene  
Concen: 7.756 ng/ul  
RT: 19.27 min Scan# 2735  
Delta R.T. 0.03 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

Instrument :  
BNA\_P  
ClientSampleId :  
C0AD5DL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.6  | 9.1        | 13.7  |
| 100     | 6.9   | 7.1        | 10.7  |

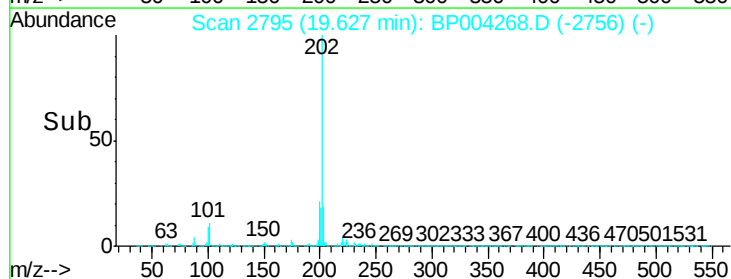
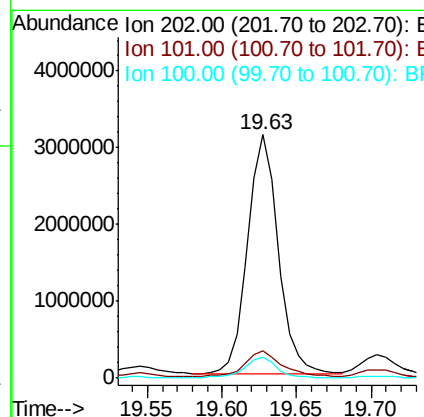
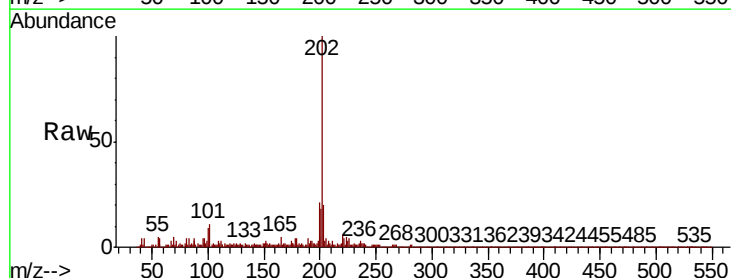
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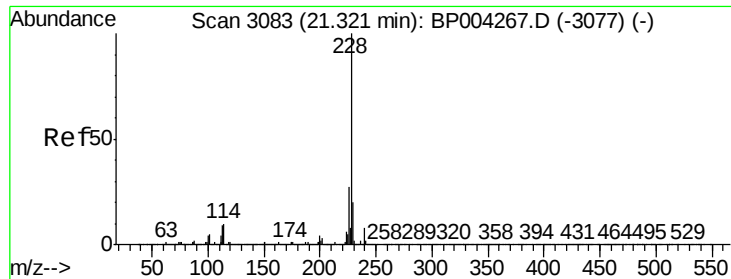
mohammad  
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#80  
Pyrene  
Concen: 37.225 ng/ul  
RT: 19.63 min Scan# 2795  
Delta R.T. 0.03 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.3  | 10.6       | 15.8  |
| 100     | 8.7   | 8.6        | 12.8  |





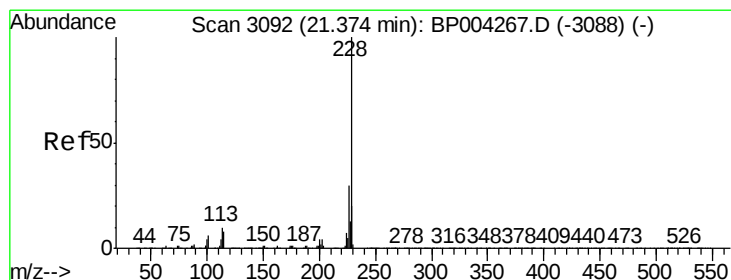
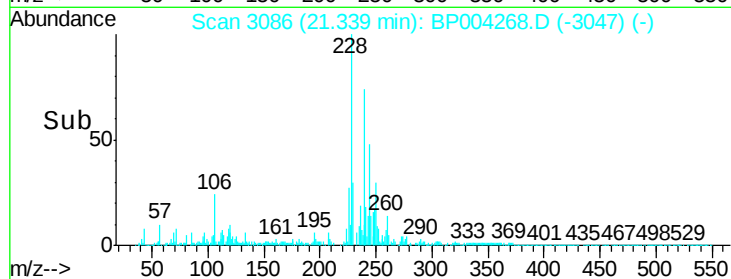
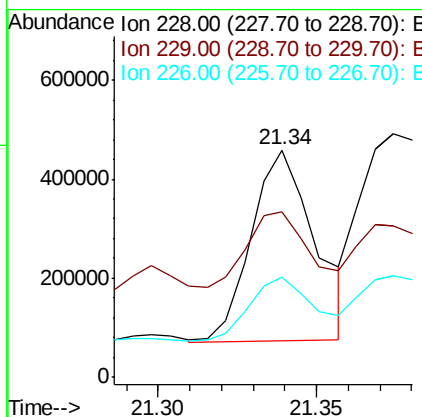
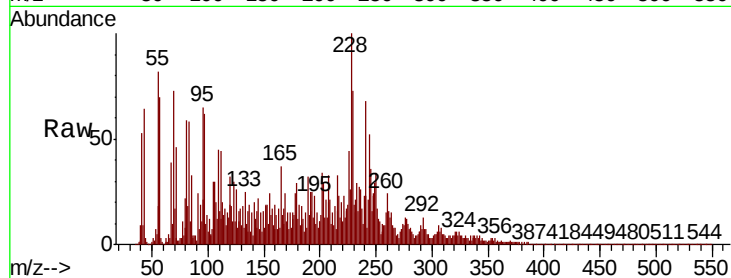
#83  
Benzo(a)anthracene  
Concen: 4.624 ng/ul  
RT: 21.34 min Scan# 3086  
Delta R.T. 0.03 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

Instrument :  
BNA\_P  
ClientSampleId :  
C0AD5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 72.6  | 15.8  | 23.8# |
| 226     | 44.1  | 21.7  | 32.5# |

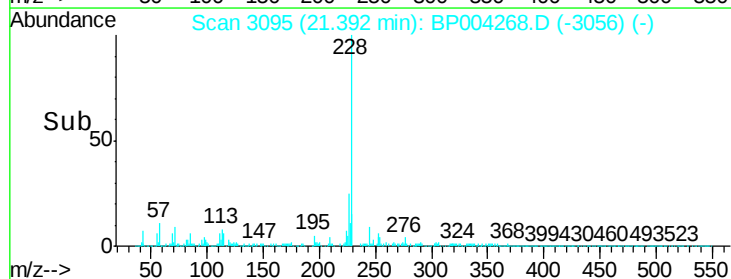
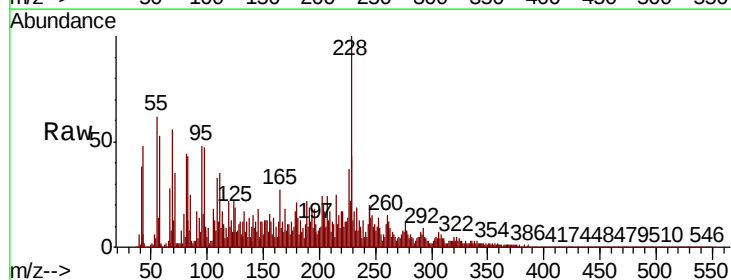
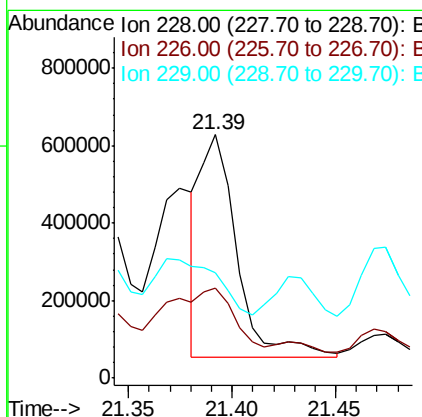
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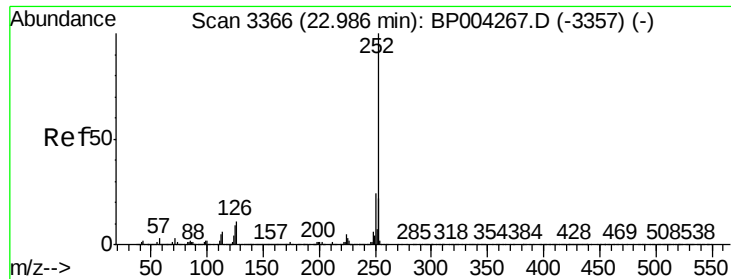
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#85  
Chrysene  
Concen: 6.172 ng/ul m  
RT: 21.39 min Scan# 3095  
Delta R.T. 0.03 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 36.8  | 24.2  | 36.2# |
| 229     | 43.1  | 15.8  | 23.8# |





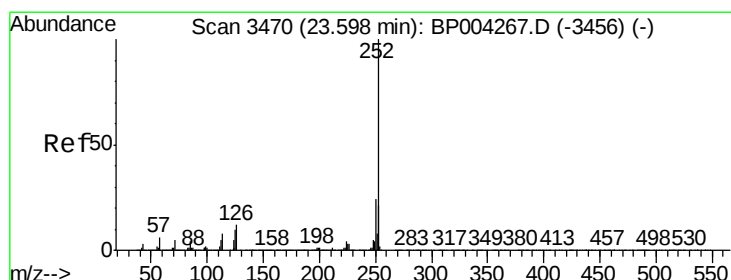
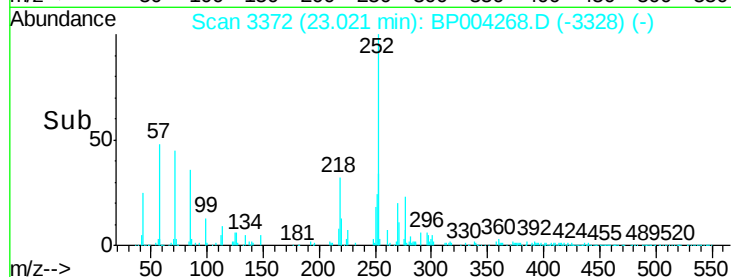
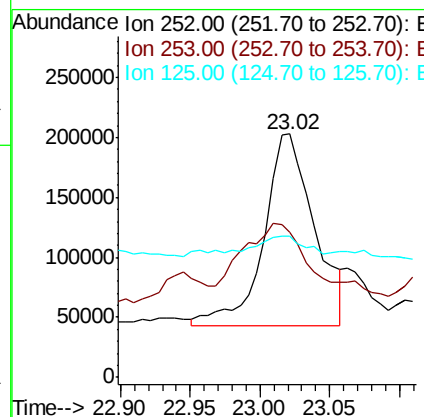
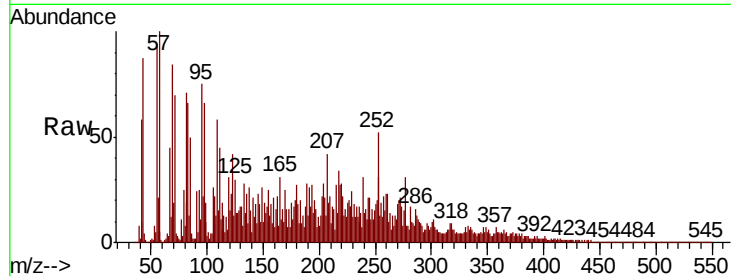
#88  
Benzo(b)fluoranthene  
Concen: 3.081 ng/ul m  
RT: 23.02 min Scan# 3372  
Delta R.T. 0.06 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

Instrument :  
BNA\_P  
ClientSampleId :  
C0AD5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 59.4  | 17.6  | 26.4# |
| 125     | 58.0  | 7.7   | 11.5# |

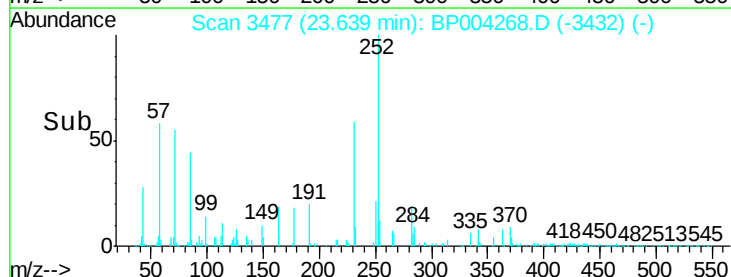
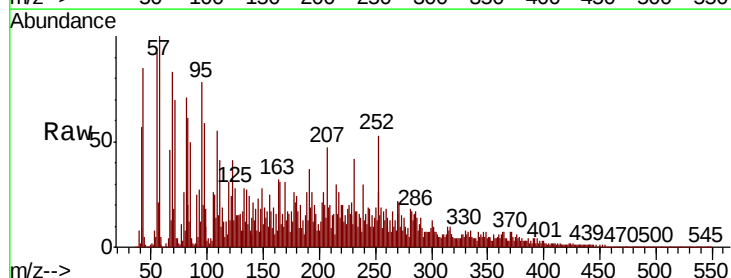
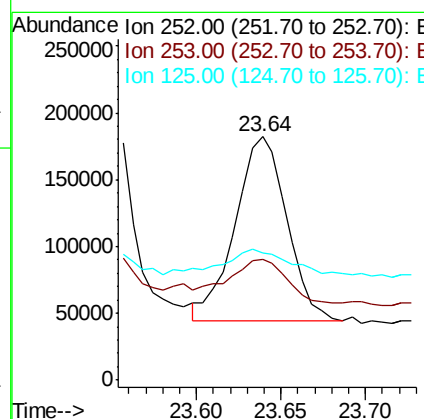
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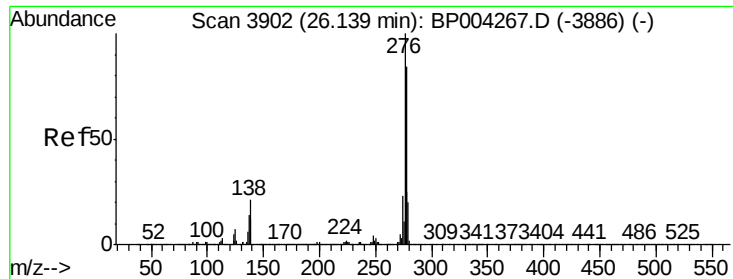
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#91  
Benzo(a)pyrene  
Concen: 2.401 ng/ul  
RT: 23.64 min Scan# 3477  
Delta R.T. 0.06 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 49.5  | 17.3  | 25.9# |
| 125     | 52.1  | 7.8   | 11.6# |





#92

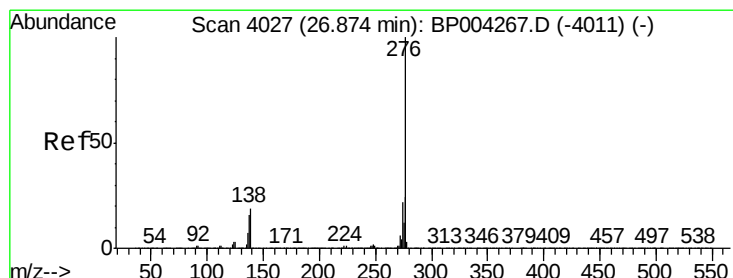
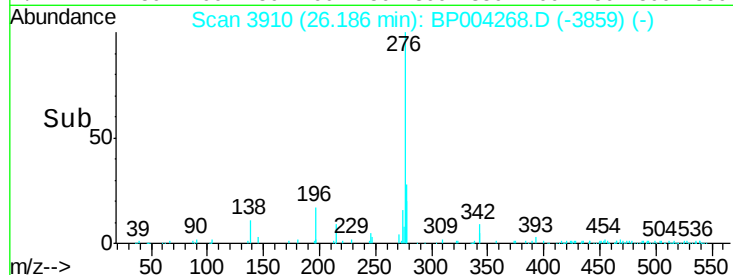
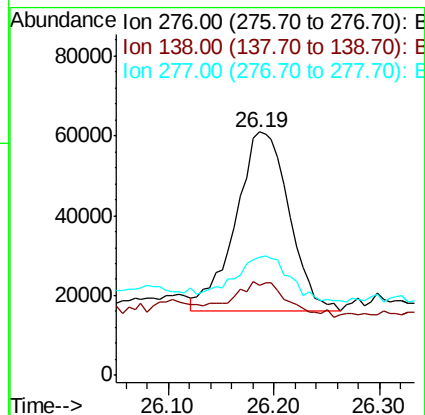
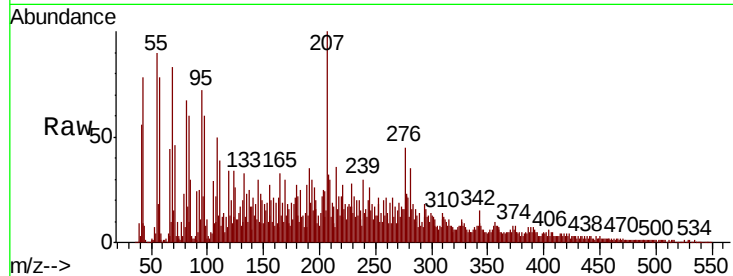
Indeno(1,2,3-cd)pyrene  
Concen: 1.026 ng/ul  
RT: 26.19 min Scan# 3910  
Delta R.T. 0.10 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

Instrument :  
BNA\_P  
ClientSampleId :  
C0AD5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 37.2  | 17.8  | 26.6# |
| 277     | 48.7  | 19.8  | 29.6# |

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#94

Benzo(g,h,i)perylene  
Concen: 1.804 ng/ul  
RT: 26.94 min Scan# 4038  
Delta R.T. 0.11 min  
Lab File: BP004268.D  
Acq: 14 Dec 2020 11:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.0  | 16.6  | 25.0# |
| 277     | 38.2  | 18.5  | 27.7# |

