

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM071520\  
 Data File : BM026772.D  
 Acq On : 15 Jul 2020 12:10  
 Operator : JU/CG  
 Sample : PB130168BL  
 Misc : PBBL-WATER-04  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SBLK68

Manual Integrations  
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mohammad  
 7/16/2020 11:05:29 AM

Quant Time: Jul 15 12:45:34 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM063020MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jul 15 10:09:26 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.31  | 152  | 73556    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.06 | 136  | 278638   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 13.97 | 164  | 165967   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.73 | 188  | 356289m  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 20.95 | 240  | 363774   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.02 | 264  | 408734   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 2.90  | 96  | 15608  | 6.38  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.52  | 99  | 226847 | 33.67 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.67  | 67  | 153022 | 33.59 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.85  | 132 | 180188 | 34.81 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.04  | 113 | 174250 | 32.34 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.45  | 128 | 76703  | 34.81 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.17  | 143 | 84265  | 35.86 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.71  | 165 | 159801 | 34.73 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.22 | 131 | 193349 | 39.91 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.40 | 166 | 468412 | 35.38 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.65 | 160 | 540796 | 33.80 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.24 | 143 | 49134  | 25.72 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 14.98 | 176 | 395758 | 34.14 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.13 | 200 | 66073  | 29.68 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 16.83 | 188 | 606355 | 34.56 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.14 | 212 | 680414 | 35.99 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 22.89 | 264 | 799052 | 36.22 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |       | Ovalue |           |
|--------------------------------|-------|-----|-------|--------|-----------|
| 2) 1,4-Dioxane                 | 2.94  | 88  | 83    | 0.031  | ng/uL# 14 |
| 4) Benzaldehyde                | 6.51  | 77  | 171   | 0.048  | ng/ul# 8  |
| 8) Bis(2-Chloroethyl)ether     | 6.85  | 93  | 369   | 0.065  | ng/ul# 1  |
| 20) Nitrobenzene               | 8.46  | 77  | 1112  | 0.160  | ng/ul# 51 |
| 21) Isophorone                 | 9.17  | 82  | 10743 | 0.920  | ng/ul# 75 |
| 45) Dimethylphthalate          | 13.40 | 163 | 119   | 0.009  | ng/ul# 1  |
| 46) 2,6-Dinitrotoluene         | 13.40 | 165 | 2430  | 0.907  | ng/ul# 20 |
| 59) Fluorene                   | 14.97 | 166 | 874   | 0.062  | ng/ul# 9  |
| 61) 4-Nitroaniline             | 15.13 | 138 | 130   | 0.052  | ng/ul# 1  |
| 64) 4,6-Dinitro-2-methylphenol | 15.13 | 198 | 160   | 0.068  | ng/ul# 1  |
| 70) Phenanthrene               | 16.82 | 178 | 212   | 0.010  | ng/ul# 1  |
| 72) Anthracene                 | 16.82 | 178 | 212   | 0.009  | ng/ul# 1  |
| 80) Pyrene                     | 19.14 | 202 | 1007  | 0.039  | ng/ul# 1  |
| 81) Butylbenzylphthalate       | 20.11 | 149 | 81    | 0.009  | ng/ul# 17 |
| 83) Benzo(a)anthracene         | 20.95 | 228 | 1112  | 0.044  | ng/ul# 40 |
| 84) Bis(2-ethylhexyl)phthalate | 20.89 | 149 | 103   | 0.008  | ng/ul# 53 |
| 85) Chrysene                   | 20.98 | 228 | 79    | 0.003  | ng/ul# 50 |
| 87) Di-n-octyl phthalate       | 21.76 | 149 | 269   | 0.011  | ng/ul 100 |
| 88) Benzo(b)fluoranthene       | 22.40 | 252 | 132   | 0.005  | ng/ul# 1  |
| 89) Benzo(k)fluoranthene       | 22.46 | 252 | 232   | 0.008  | ng/ul# 1  |
| 91) Benzo(a)pyrene             | 22.94 | 252 | 175   | 0.007  | ng/ul# 1  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM071520\  
Data File : BM026772.D  
Acq On : 15 Jul 2020 12:10  
Operator : JU/CG  
Sample : PB130168BL  
Misc : PBBL-WATER-04  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SBLK68

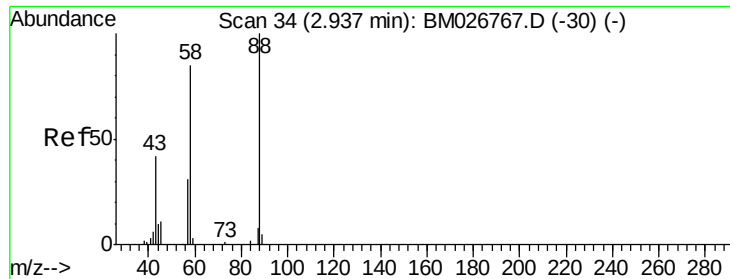
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Quant Time: Jul 15 12:45:34 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM063020MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jul 15 10:09:26 2020  
Response via : Initial Calibration

| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |





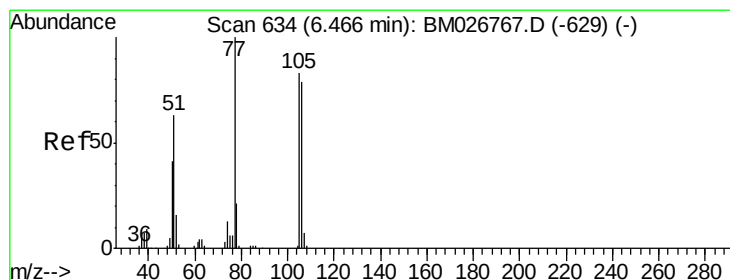
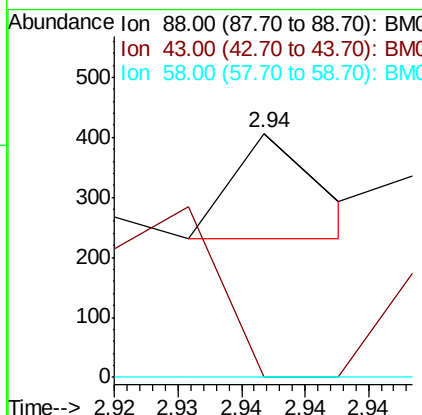
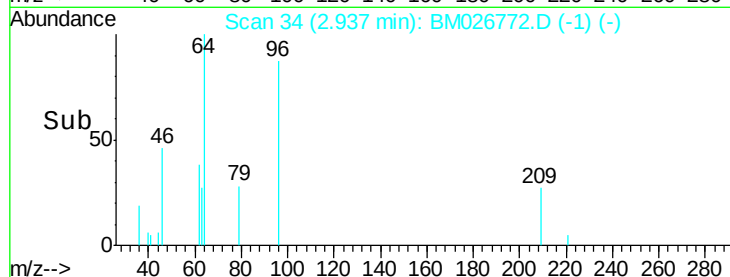
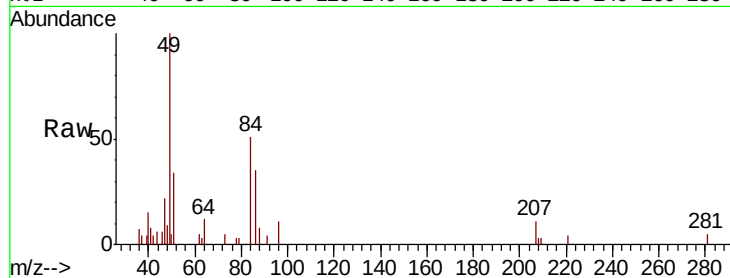
#2  
1,4-Dioxane  
Concen: 0.031 ng/uL  
RT: 2.94 min Scan# 34  
Delta R.T. -0.00 min  
Lab File: BM026772.D  
Acq: 15 Jul 2020 12:10

Instrument :  
BNA\_M  
ClientSampleId :  
SBLK68

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 88    | Resp: | 83     |
| Ion      | Ratio | Lower | Upper  |
| 88       | 100   |       |        |
| 43       | 0.0   | 38.2  | 57.2#  |
| 58       | 0.0   | 68.9  | 103.3# |

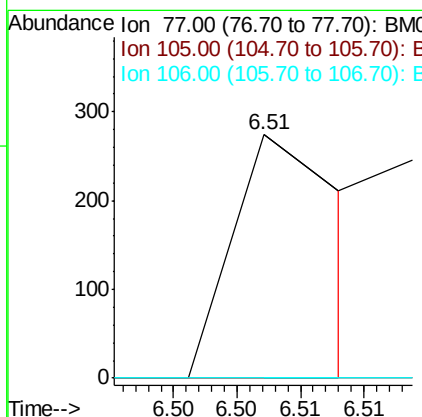
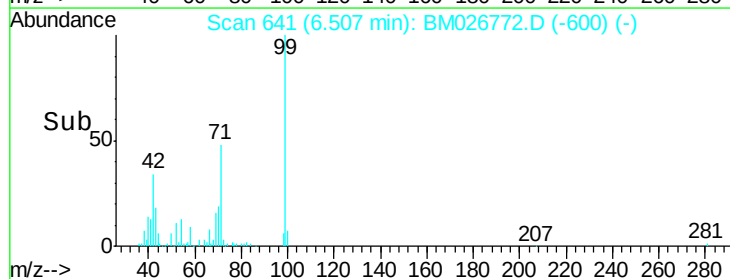
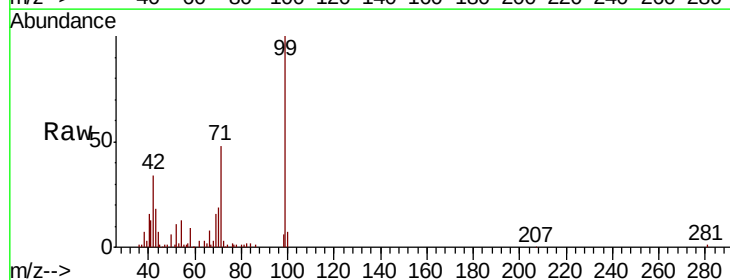
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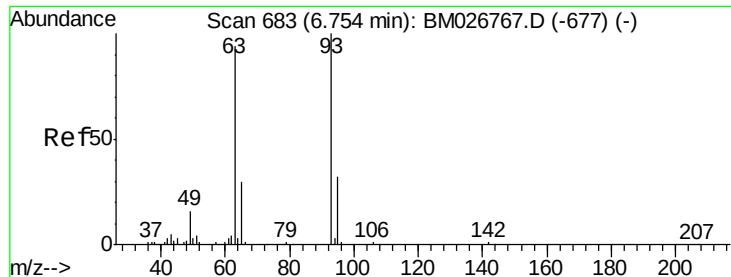
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#4  
Benzaldehyde  
Concen: 0.048 ng/uL  
RT: 6.51 min Scan# 641  
Delta R.T. 0.04 min  
Lab File: BM026772.D  
Acq: 15 Jul 2020 12:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 77    | Resp: | 171    |
| Ion      | Ratio | Lower | Upper  |
| 77       | 100   |       |        |
| 105      | 0.0   | 67.5  | 101.3# |
| 106      | 0.0   | 66.2  | 99.4#  |





#8

Bis(2-Chloroethyl)ether

Concen: 0.065 ng/ul

RT: 6.85 min Scan# 700

Delta R.T. 0.10 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

Instrument :

BNA\_M

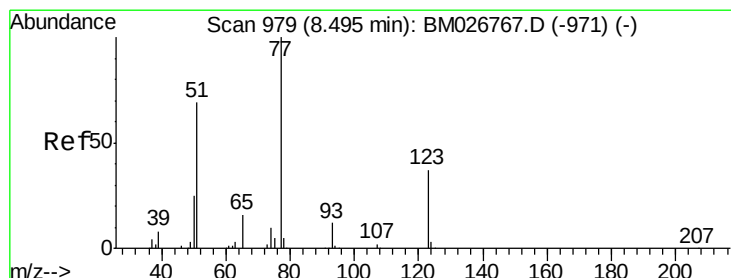
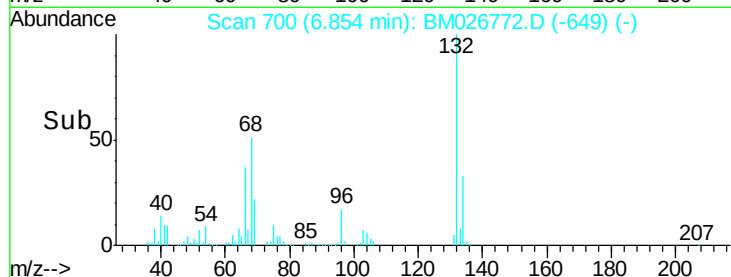
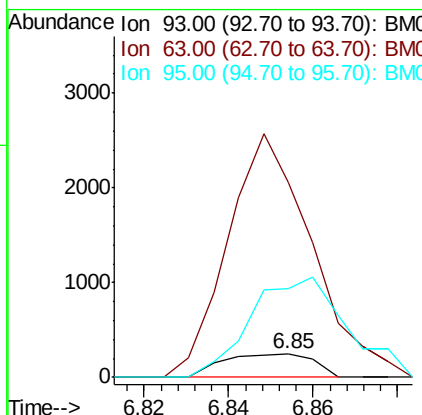
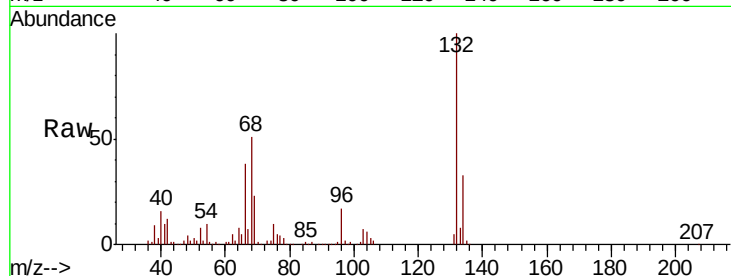
ClientSampleId :

SBLK68

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 93    | Resp: | 369    |
| Ion      | Ratio | Lower | Upper  |
| 93       | 100   |       |        |
| 63       | 826.1 | 75.5  | 113.3# |
| 95       | 376.7 | 25.2  | 37.8#  |

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#20

Nitrobenzene

Concen: 0.160 ng/ul

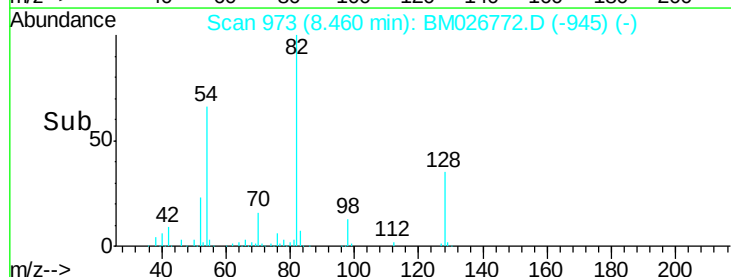
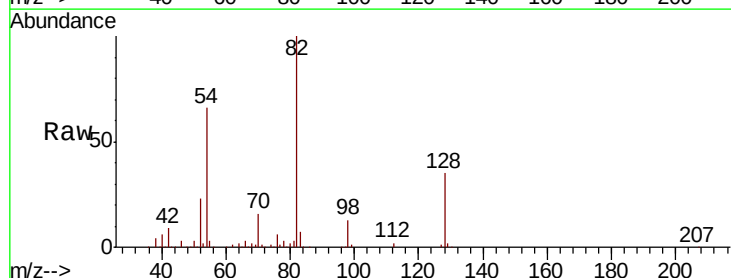
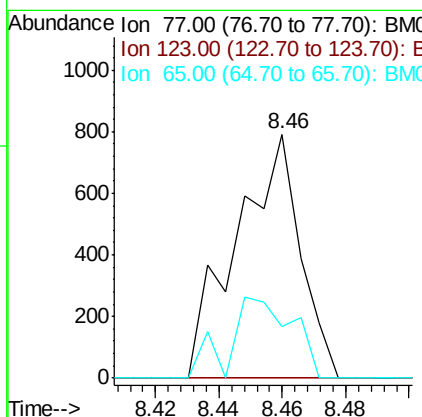
RT: 8.46 min Scan# 973

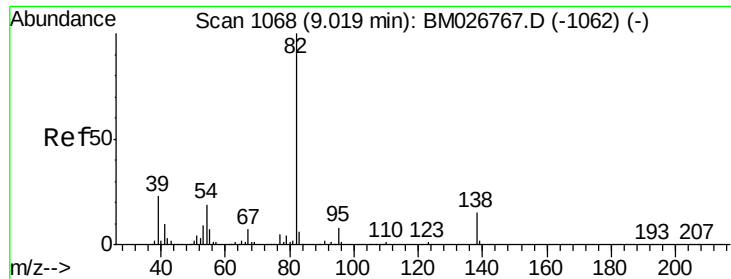
Delta R.T. -0.04 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 1112  |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 0.0   | 29.8  | 44.8# |
| 65       | 21.4  | 11.8  | 17.6# |





#21

Isophorone

Concen: 0.920 ng/ul

RT: 9.17 min Scan# 1093

Delta R.T. 0.15 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

Instrument :

BNA\_M

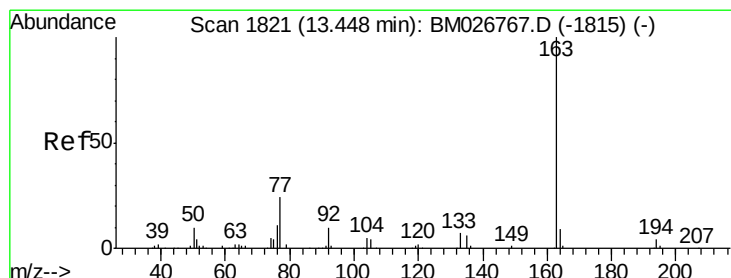
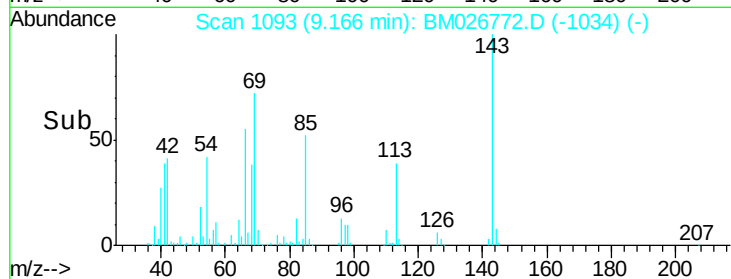
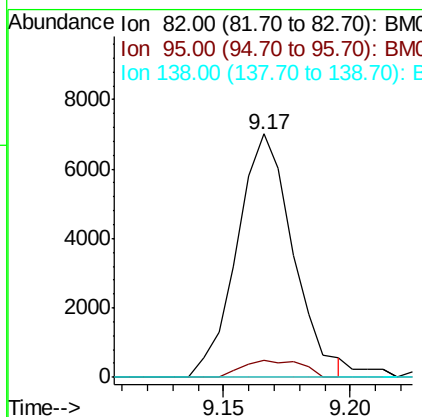
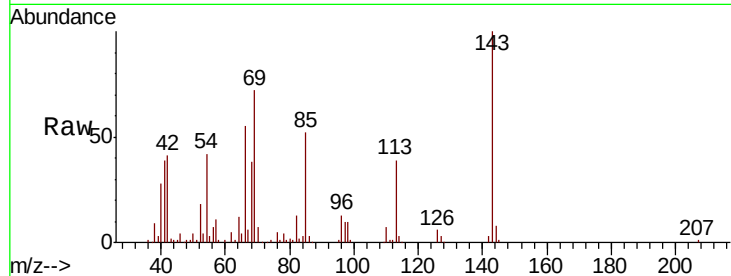
ClientSampleId :

SBLK68

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 82    | Resp: | 10743 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 95        | 7.2   | 6.4   | 9.6   |
| 138       | 0.0   | 12.2  | 18.4# |

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#45

Dimethylphthalate

Concen: 0.009 ng/ul

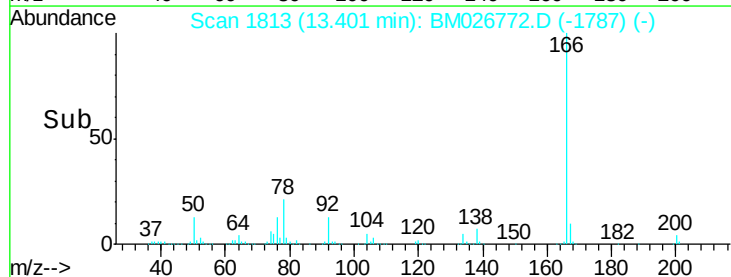
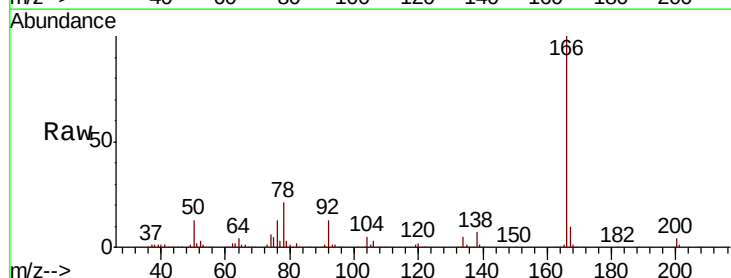
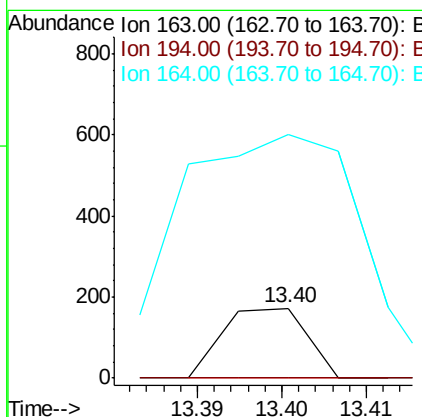
RT: 13.40 min Scan# 1813

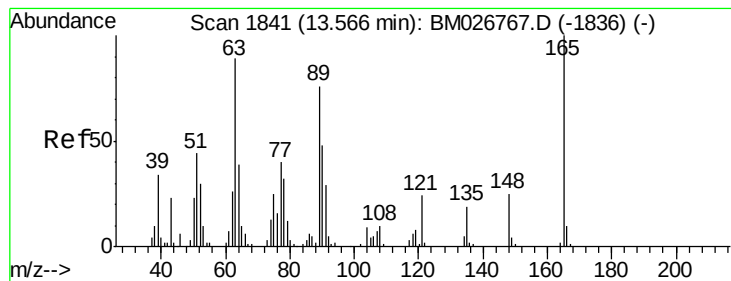
Delta R.T. -0.05 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 119   |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 0.0   | 3.5   | 5.3#  |
| 164       | 349.4 | 7.8   | 11.6# |





#46

2,6-Dinitrotoluene

Concen: 0.907 ng/ul

RT: 13.40 min Scan# 1813

Delta R.T. -0.16 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

Instrument :

BNA\_M

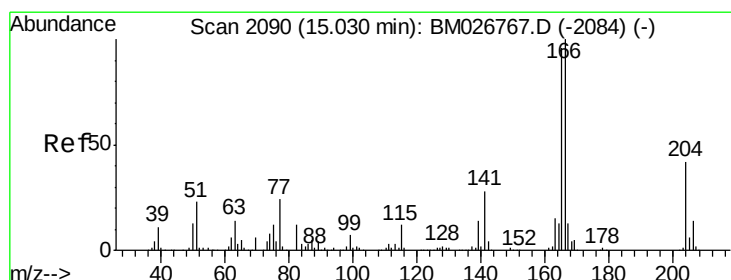
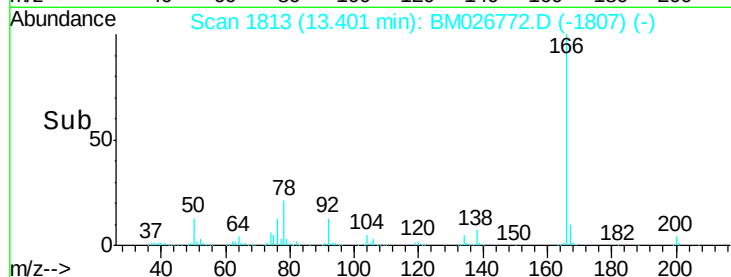
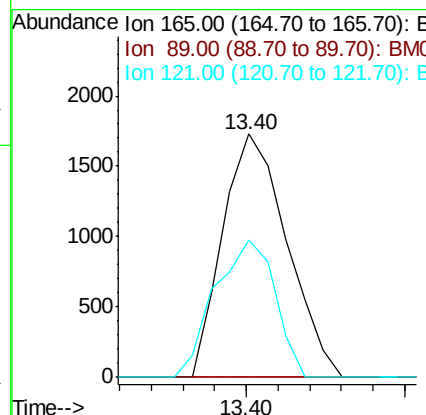
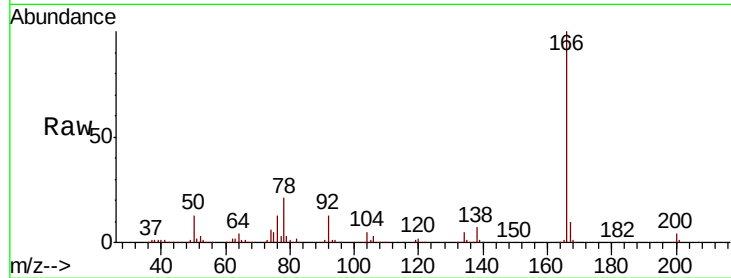
ClientSampleId :

SBLK68

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 165   | Resp: | 2430  |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 89        | 0.0   | 54.2  | 81.4# |
| 121       | 56.5  | 18.2  | 27.4# |

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#59

Fluorene

Concen: 0.062 ng/ul

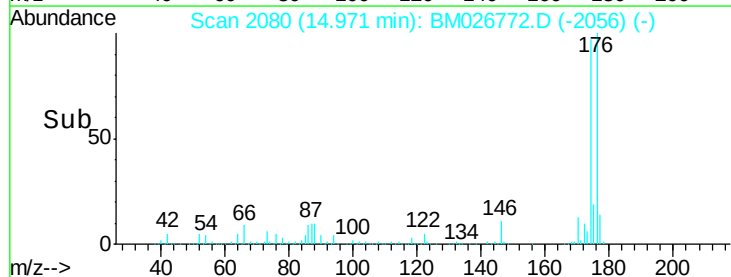
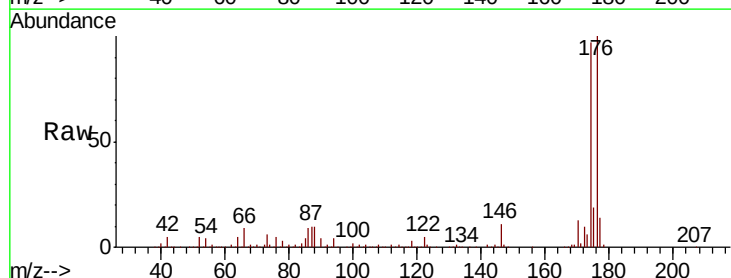
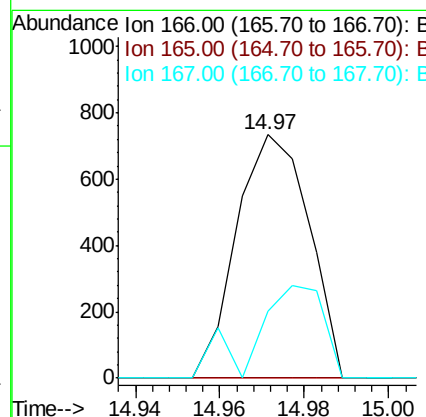
RT: 14.97 min Scan# 2080

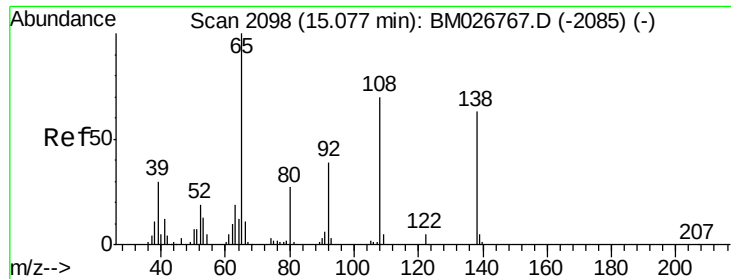
Delta R.T. -0.06 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 874    |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 0.0   | 77.0  | 115.4# |
| 167       | 27.7  | 10.7  | 16.1#  |





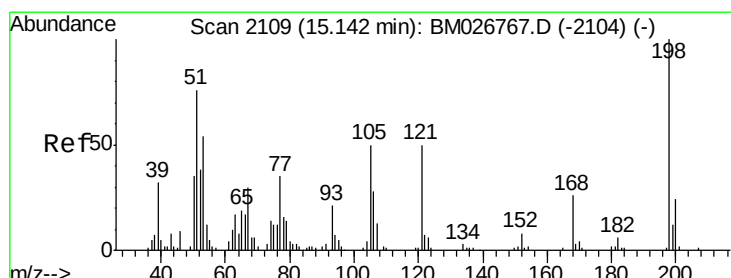
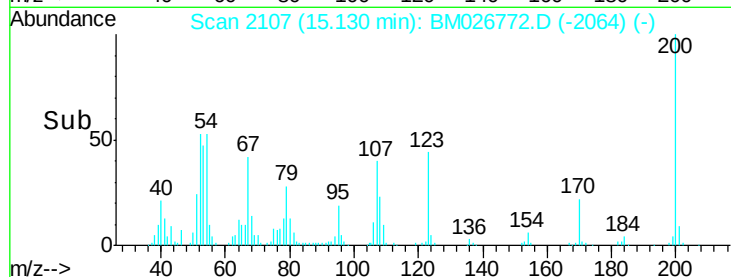
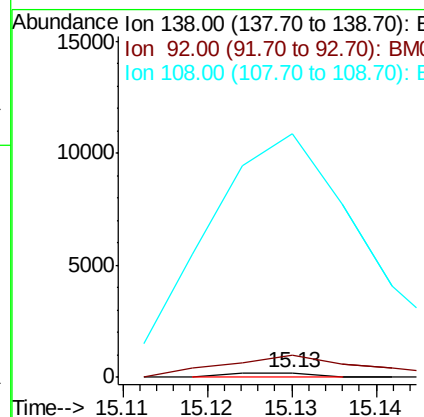
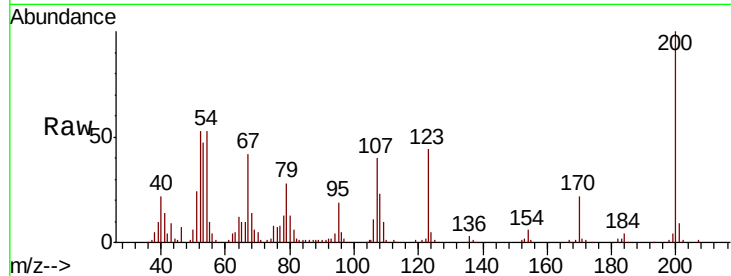
#61  
4-Nitroaniline  
Concen: 0.052 ng/ul  
RT: 15.13 min Scan# 2107  
Delta R.T. 0.05 min  
Lab File: BM026772.D  
Acq: 15 Jul 2020 12:10

Instrument :  
BNA\_M  
ClientSampleId :  
SBLK68

Tot Ion:138 Resp: 130  
Ion Ratio Lower Upper  
138 100  
92 504.5 47.7 71.5#  
108 5407.5 82.6 123.8

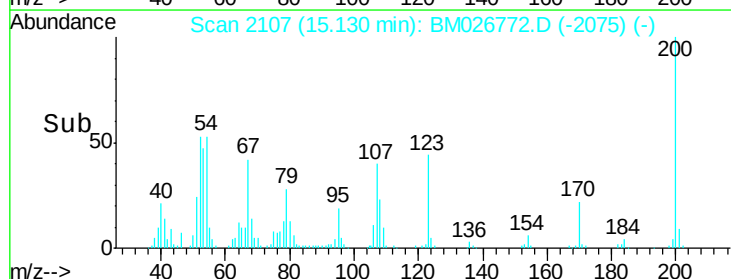
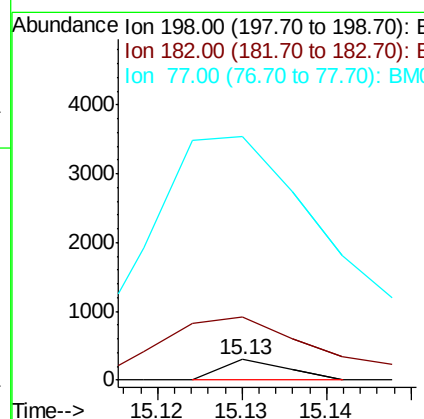
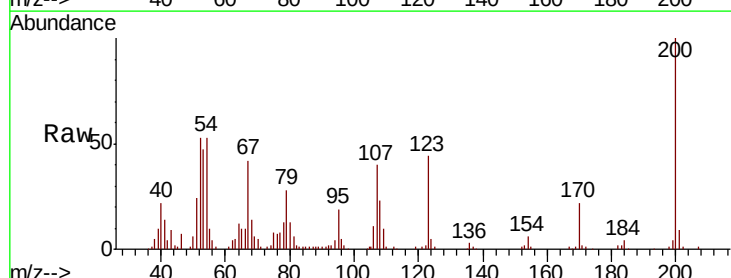
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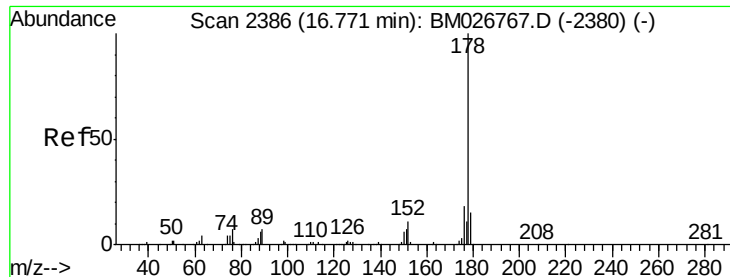


#64  
4,6-Dinitro-2-methylphenol  
Concen: 0.068 ng/ul  
RT: 15.13 min Scan# 2107  
Delta R.T. -0.01 min  
Lab File: BM026772.D  
Acq: 15 Jul 2020 12:10

Tgt Ion:198 Resp: 160  
Ion Ratio Lower Upper  
198 100  
182 306.7 4.0 6.0#  
77 1191.6 26.7 40.1#







#70

Phenanthrene

Concen: 0.010 ng/ul

RT: 16.82 min Scan# 2395

Delta R.T. 0.05 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

Instrument :

BNA\_M

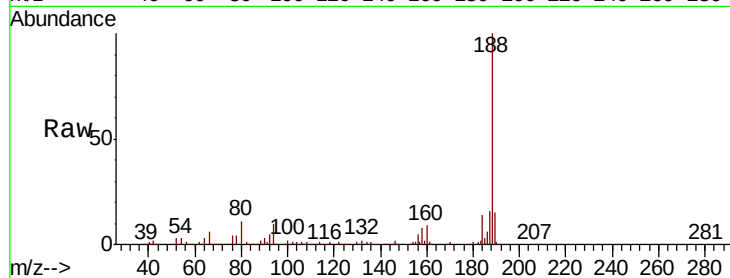
ClientSampleId :

SBLK68

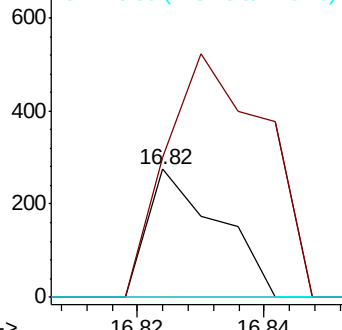
|             |       |            |
|-------------|-------|------------|
| Tot Ion:178 | Resp: | 212        |
| Ion Ratio   | Lower | Upper      |
| 178         | 100   |            |
| 179         | 108.7 | 12.4 18.6# |
| 176         | 0.0   | 14.3 21.5# |

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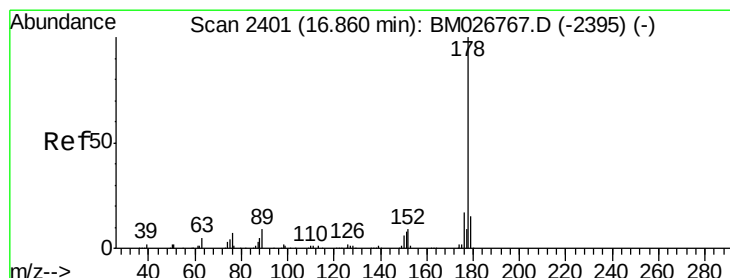
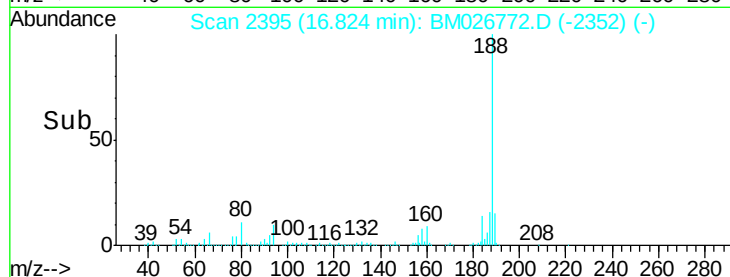
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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



Time-->



#72

Anthracene

Concen: 0.009 ng/ul

RT: 16.82 min Scan# 2395

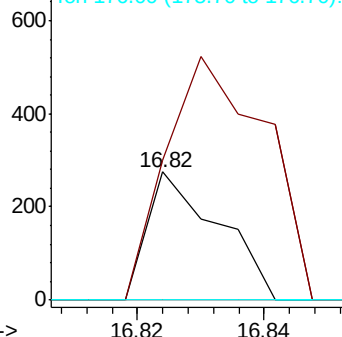
Delta R.T. -0.04 min

Lab File: BM026772.D

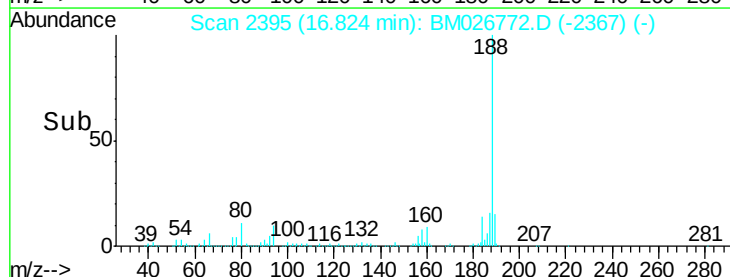
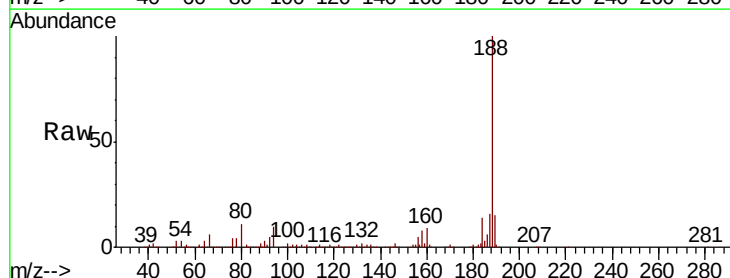
Acq: 15 Jul 2020 12:10

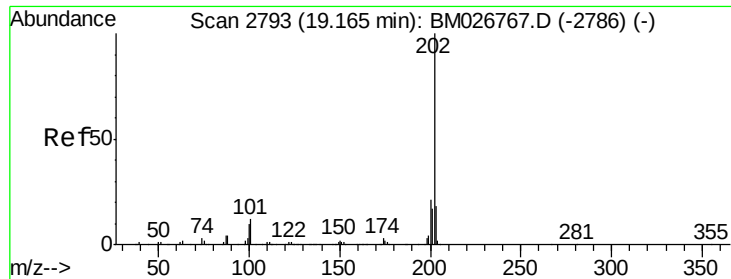
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:178 | Resp: | 212        |
| Ion Ratio   | Lower | Upper      |
| 178         | 100   |            |
| 179         | 108.7 | 11.8 17.6# |
| 176         | 0.0   | 14.7 22.1# |

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



Time-->





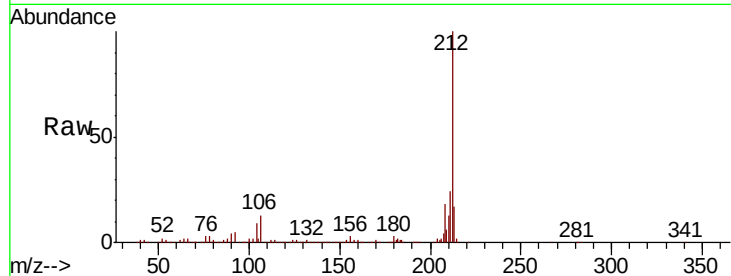
#80  
Pvrene  
Concen: 0.039 ng/ul  
RT: 19.14 min Scan# 2788  
Delta R.T. -0.03 min  
Lab File: BM026772.D  
Acq: 15 Jul 2020 12:10

Instrument :  
BNA\_M  
ClientSampleId :  
SBLK68

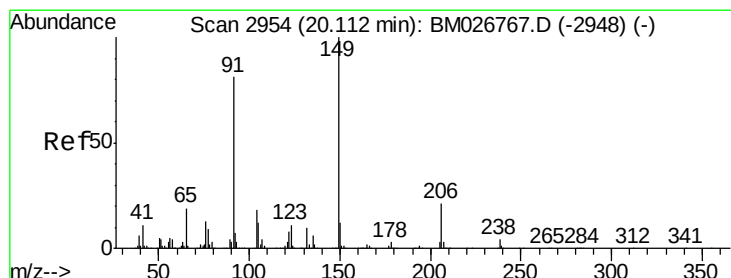
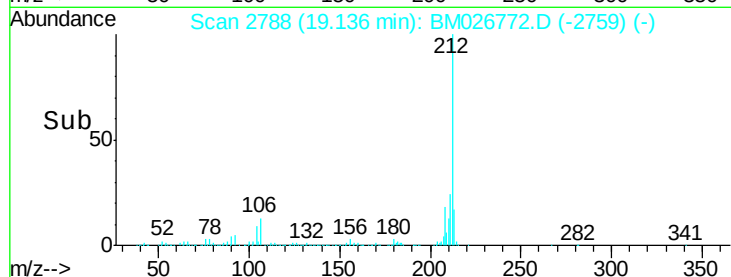
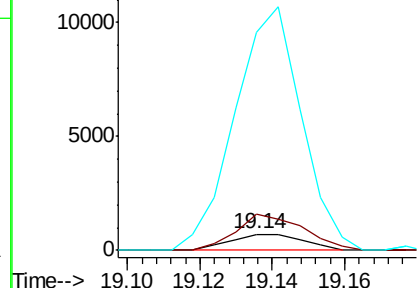
Tot Ion:202 Resp: 1007  
Ion Ratio Lower Upper  
202 100  
101 226.9 9.4 14.2#  
100 1371.4 8.0 12.0#

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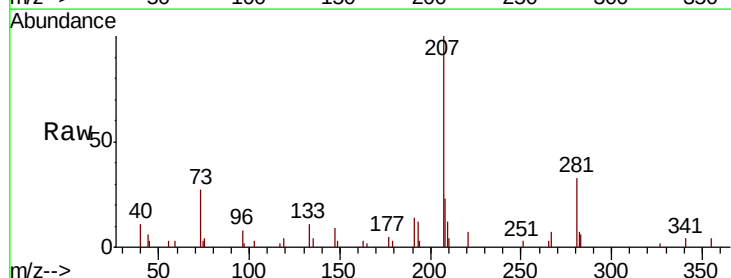


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

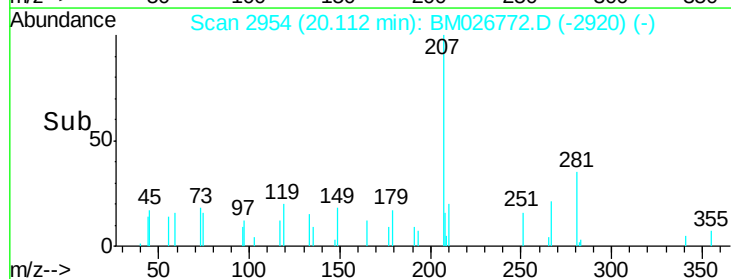
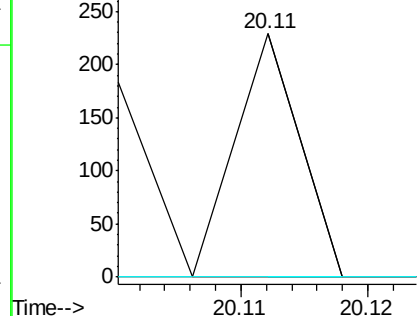


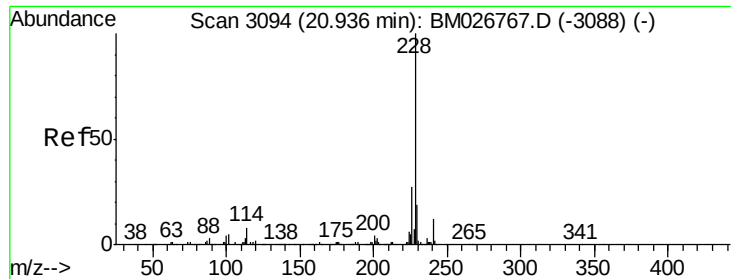
#81  
Butylbenzylphthalate  
Concen: 0.009 ng/ul  
RT: 20.11 min Scan# 2954  
Delta R.T. -0.00 min  
Lab File: BM026772.D  
Acq: 15 Jul 2020 12:10

Tgt Ion:149 Resp: 81  
Ion Ratio Lower Upper  
149 100  
91 0.0 66.4 99.6#  
206 0.0 16.3 24.5#



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 91.00 (90.70 to 91.70): B  
Ion 206.00 (205.70 to 206.70): E





#83

Benzo(a)anthracene

Concen: 0.044 ng/ul

RT: 20.95 min Scan# 3097

Delta R.T. 0.02 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

Instrument :

BNA\_M

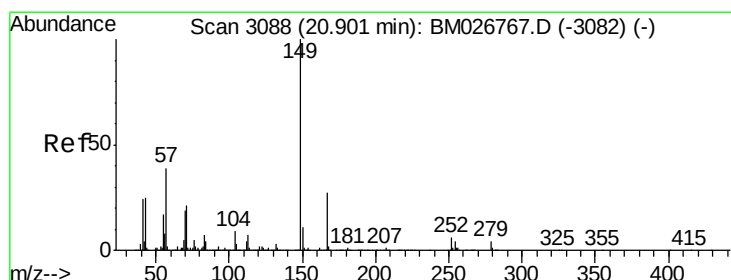
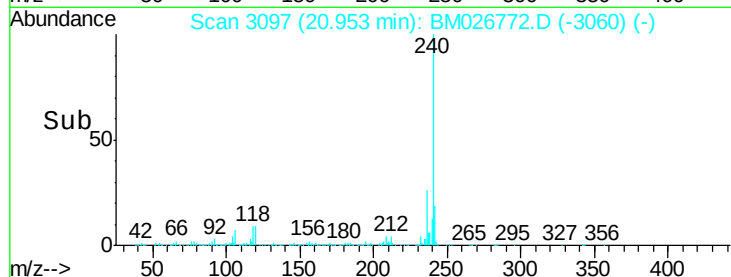
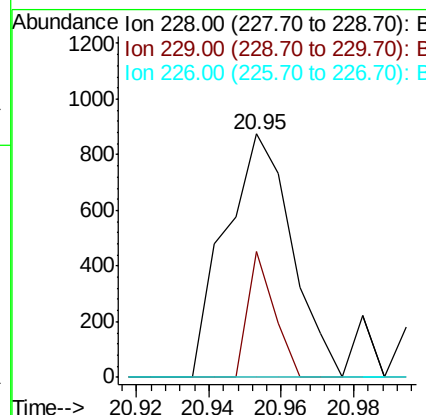
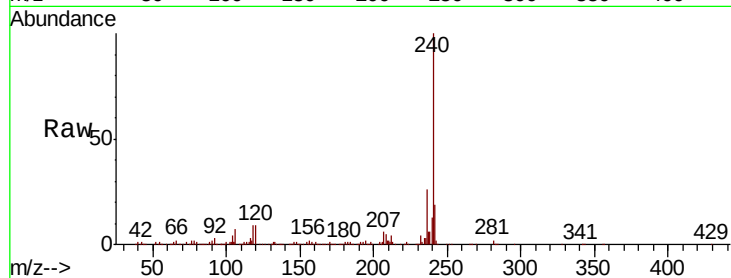
ClientSampled :

SBLK68

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 1112  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 51.5  | 15.4  | 23.0# |
| 226       | 0.0   | 21.2  | 31.8# |

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#84

Bis(2-ethylhexyl)phthalate

Concen: 0.008 ng/ul

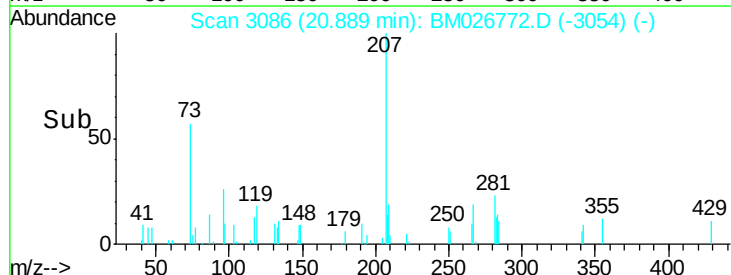
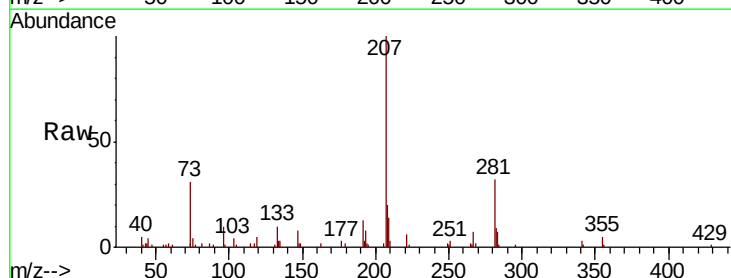
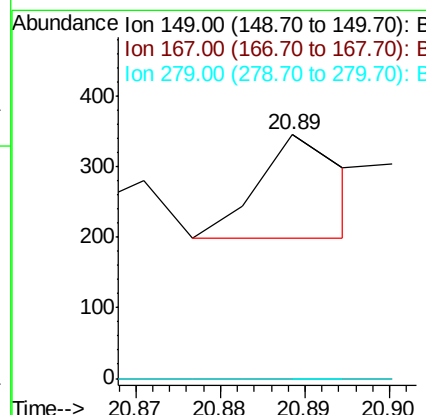
RT: 20.89 min Scan# 3086

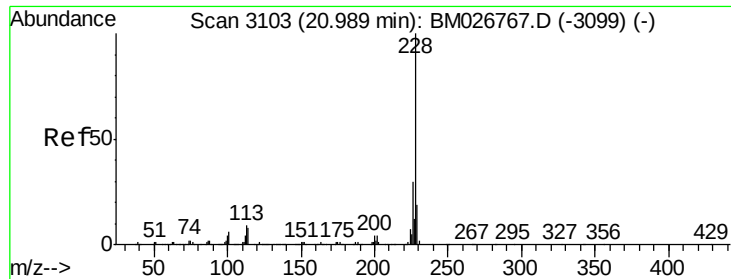
Delta R.T. -0.01 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 103   |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 0.0   | 22.1  | 33.1# |
| 279       | 0.0   | 3.6   | 5.4#  |





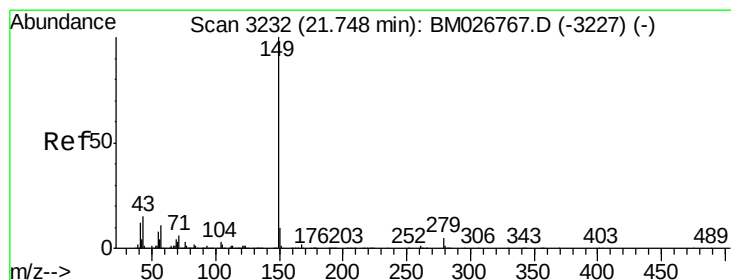
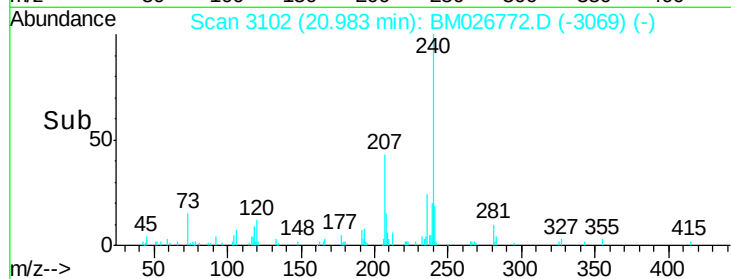
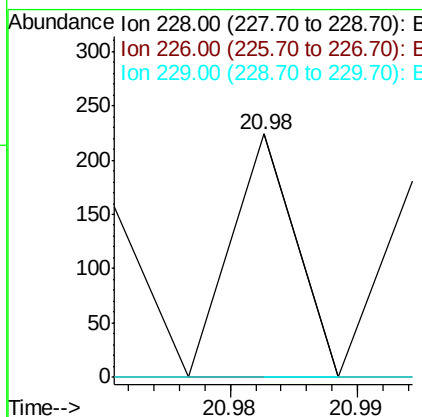
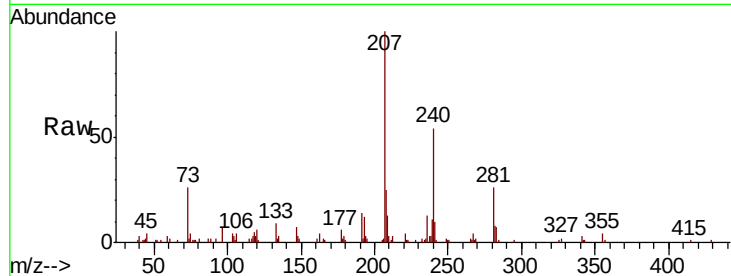
#85  
 Chrysene  
 Concen: 0.003 ng/ul  
 RT: 20.98 min Scan# 3102  
 Delta R.T. -0.01 min  
 Lab File: BM026772.D  
 Acq: 15 Jul 2020 12:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SBLK68

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 79    |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 0.0   | 23.0  | 34.6# |
| 229       | 0.0   | 15.5  | 23.3# |

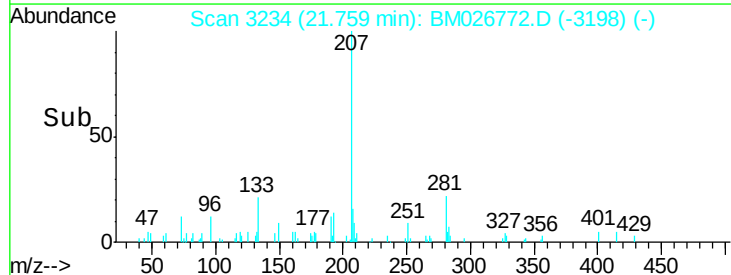
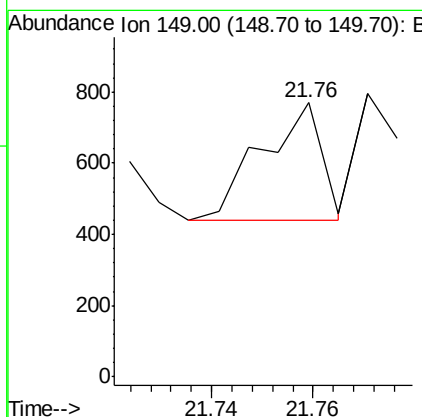
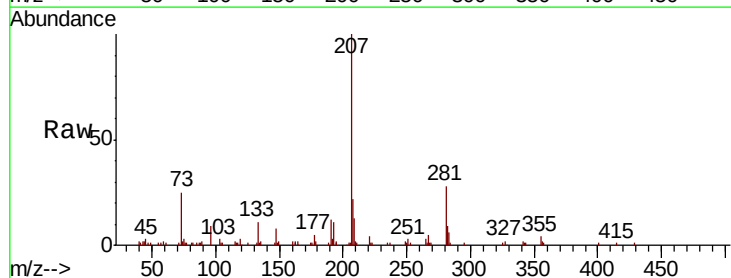
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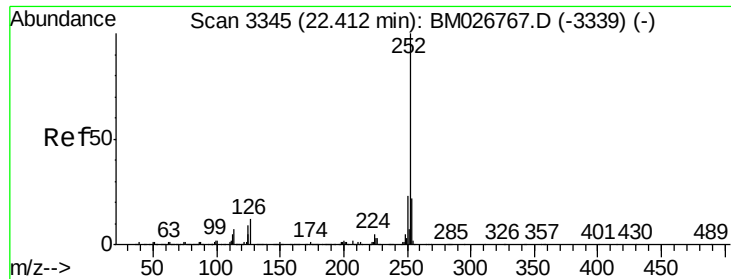
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#87  
 Di-n-octyl phthalate  
 Concen: 0.011 ng/ul  
 RT: 21.76 min Scan# 3234  
 Delta R.T. 0.01 min  
 Lab File: BM026772.D  
 Acq: 15 Jul 2020 12:10

Tgt Ion:149 Resp: 269





#88

Benzo(b)fluoranthene

Concen: 0.005 ng/ul

RT: 22.40 min Scan# 3343

Delta R.T. -0.01 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

Instrument :

BNA\_M

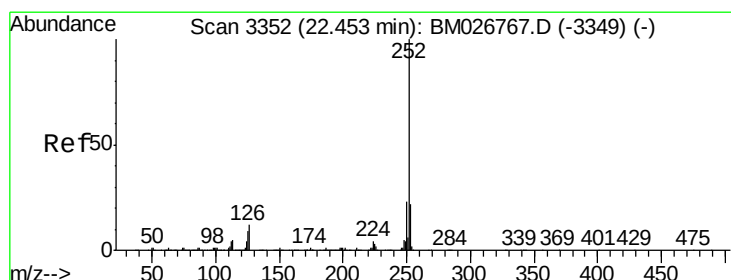
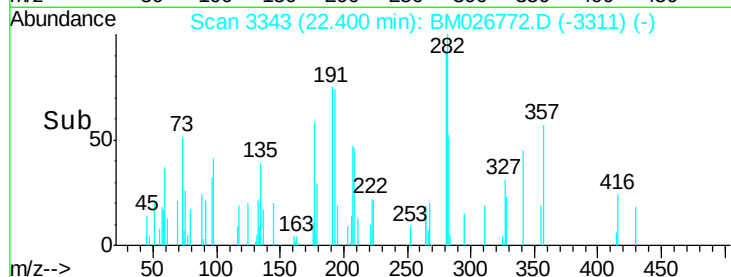
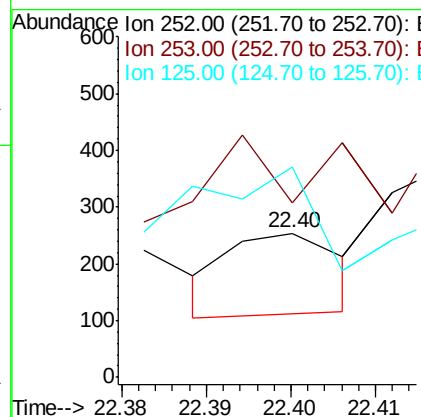
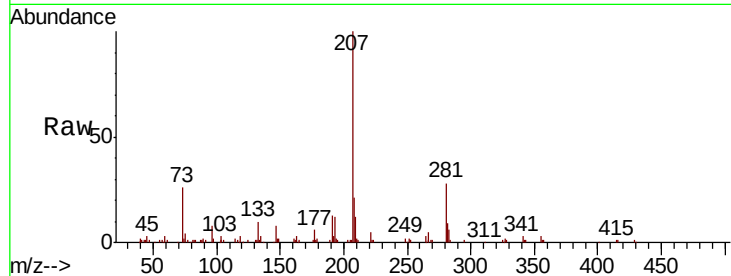
ClientSampled :

SBLK68

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 132   |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 120.9 | 17.2  | 25.8# |
| 125       | 146.1 | 7.6   | 11.4# |

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#89

Benzo(k)fluoranthene

Concen: 0.008 ng/ul

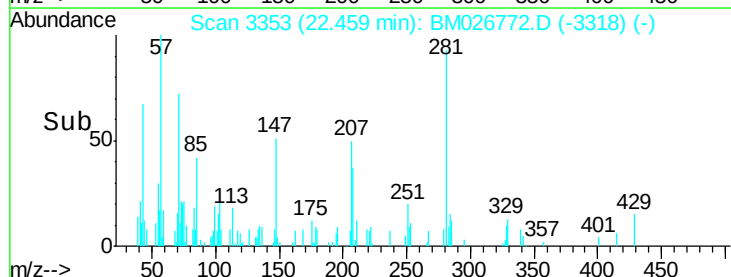
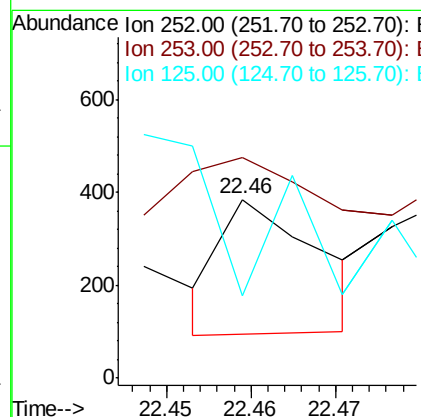
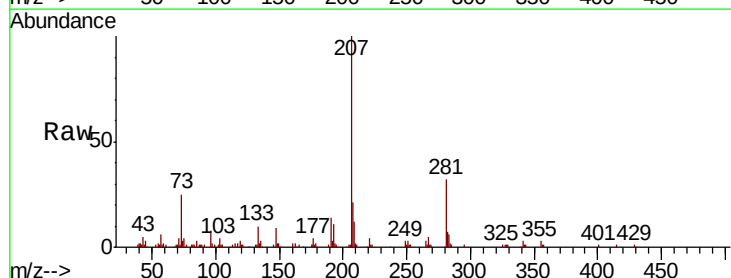
RT: 22.46 min Scan# 3353

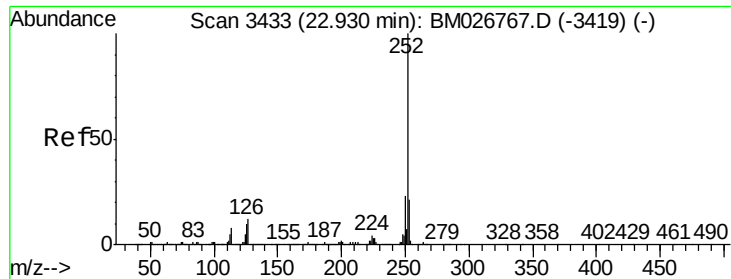
Delta R.T. 0.01 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 232   |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 123.6 | 17.1  | 25.7# |
| 125       | 45.7  | 7.7   | 11.5# |





#91

Benzo(a)pyrene

Concen: 0.007 ng/ul

RT: 22.94 min Scan# 3435

Delta R.T. 0.01 min

Lab File: BM026772.D

Acq: 15 Jul 2020 12:10

Instrument :

BNA\_M

ClientSampleId :

SBLK68

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 175   |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 85.6  | 17.4  | 26.0# |
| 125       | 82.9  | 7.5   | 11.3# |

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