

#1

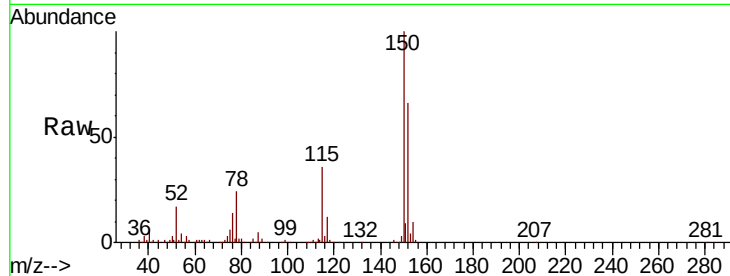
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.77 min Scan# 814  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.0 | 123.1 | 184.7 |
| 115     | 54.8  | 44.2  | 66.4  |

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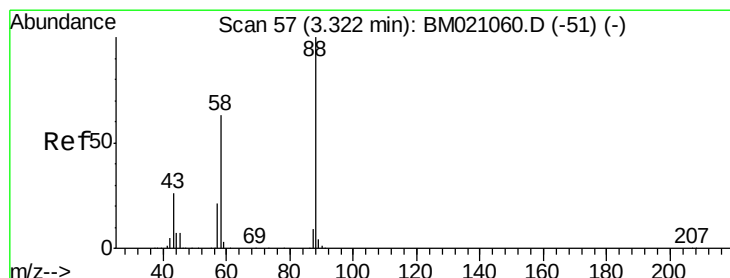
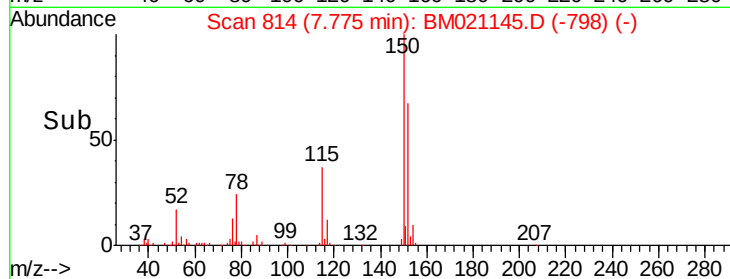
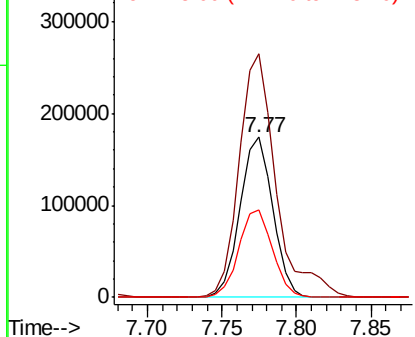


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

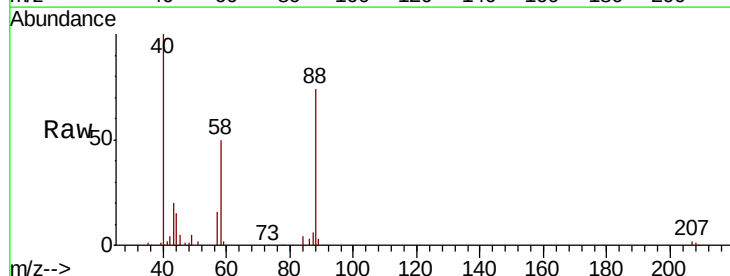
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane  
Concen: 19.025 ng  
RT: 3.32 min Scan# 56  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 66.9  | 51.9  | 77.9  |
| 43      | 27.7  | 21.4  | 32.2  |

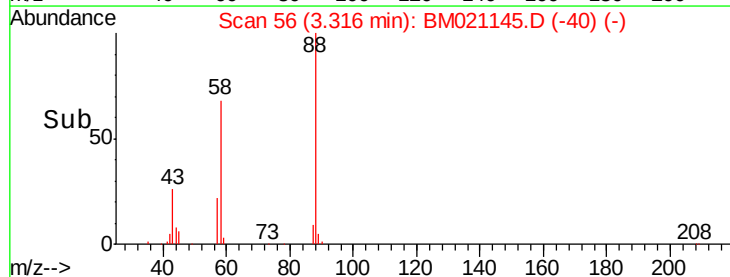
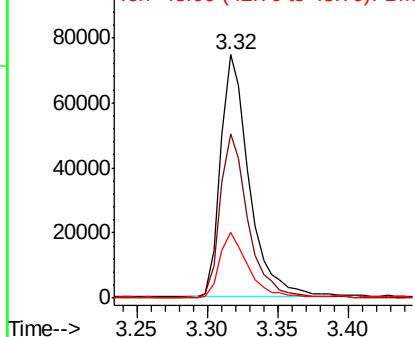


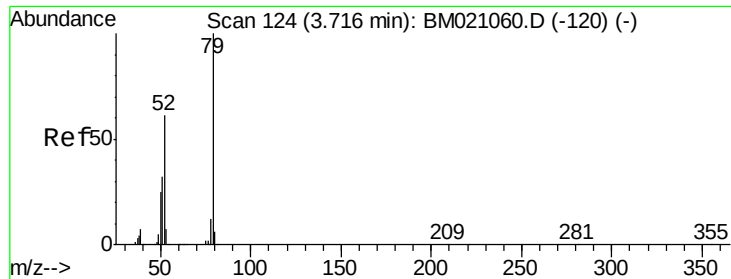
Abundance

Ion 88.00 (87.70 to 88.70): BM0

Ion 58.00 (57.70 to 58.70): BM0

Ion 43.00 (42.70 to 43.70): BM0





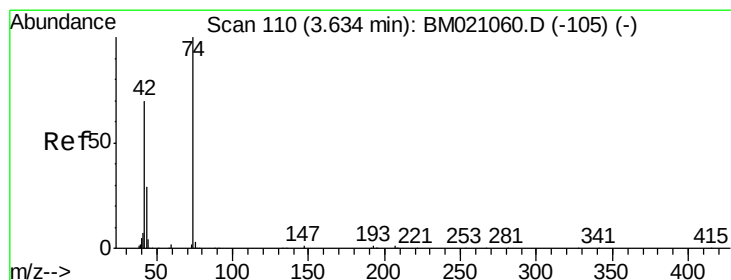
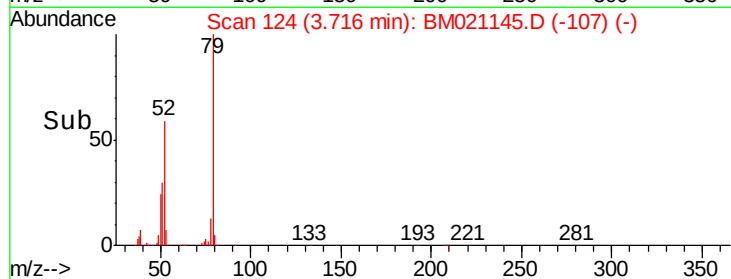
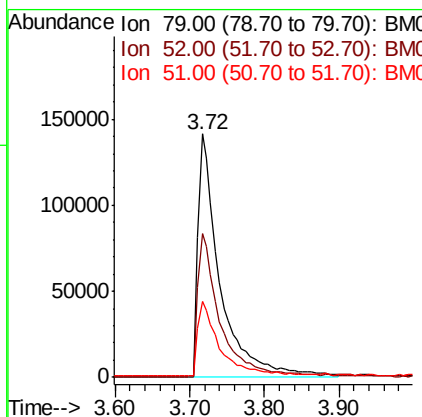
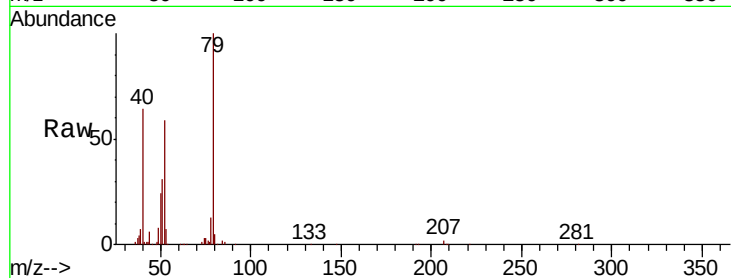
#3  
 Pvridine  
 Concen: 18.467 ng  
 RT: 3.72 min Scan# 124  
 Delta R.T. -0.00 min  
 Lab File: BM021145.D  
 Acq: 24 Jun 2019 13:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 79      | 100   | 293565 |       |       |
| 52      | 59.0  |        | 48.8  | 73.2  |
| 51      | 31.1  |        | 25.7  | 38.5  |

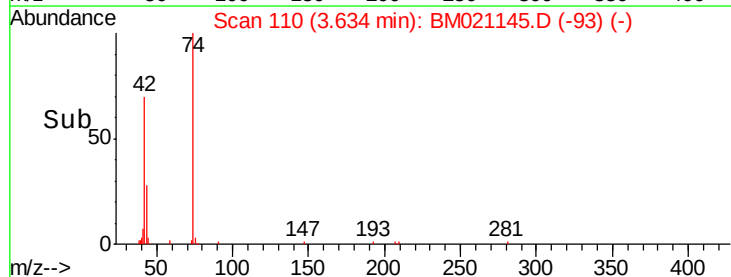
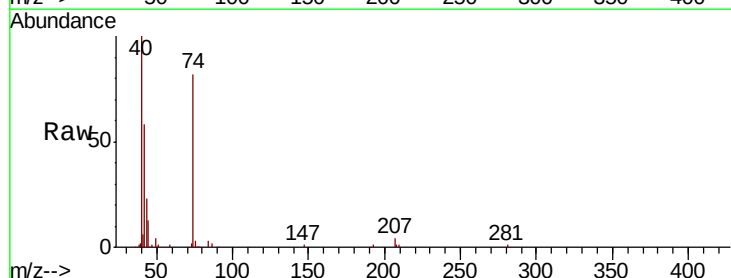
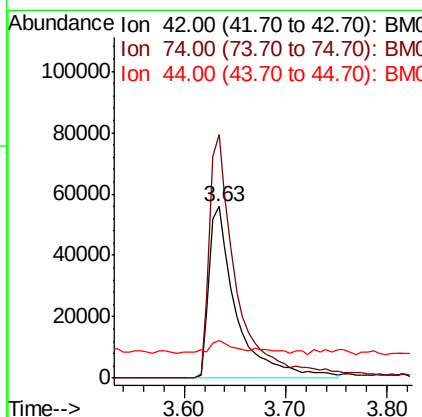
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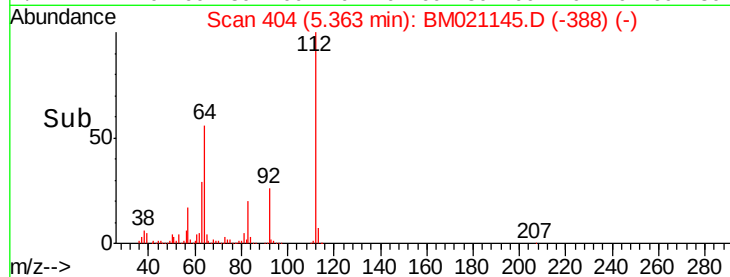
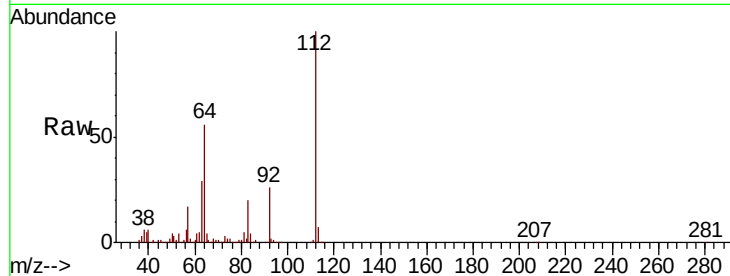
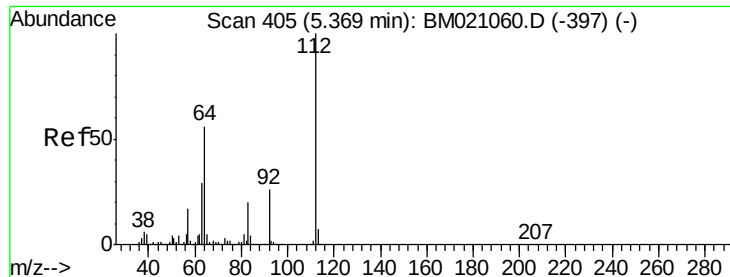
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#4  
 n-Nitrosodimethylamine  
 Concen: 17.190 ng  
 RT: 3.63 min Scan# 110  
 Delta R.T. -0.00 min  
 Lab File: BM021145.D  
 Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 42      | 100   | 105215 |       |       |
| 74      | 142.0 |        | 113.8 | 170.6 |
| 44      | 22.1  |        | 8.2   | 12.2# |





#5

2-Fluorophenol

Concen: 78.339 ng

RT: 5.36 min Scan# 404

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 112   | Resp: | 1149445 |
| Ion      | Ratio | Lower | Upper   |
| 112      | 100   |       |         |
| 64       | 56.0  | 45.2  | 67.8    |
| 63       | 29.4  | 23.5  | 35.3    |

Instrument :

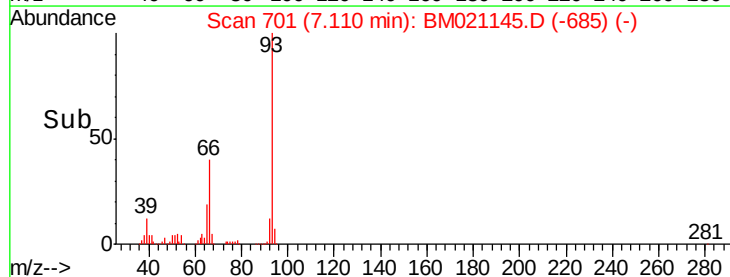
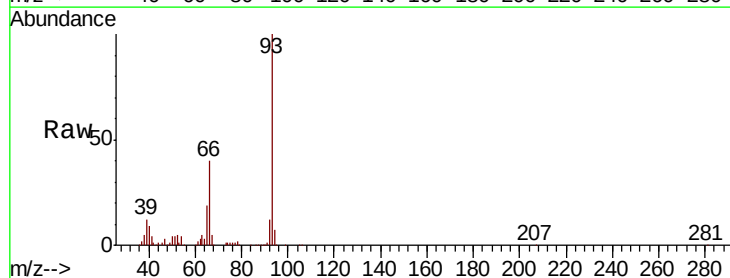
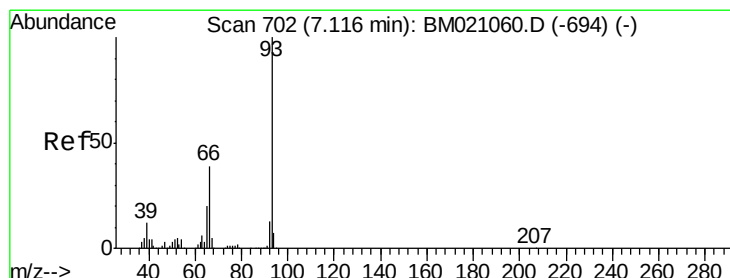
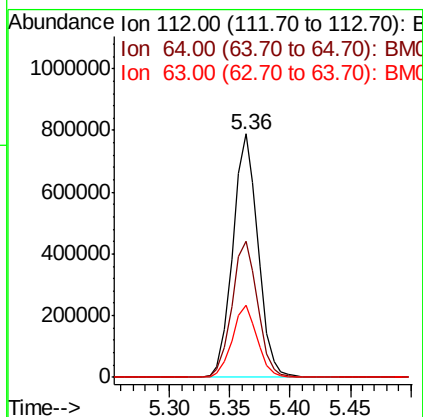
BNA\_M

ClientSampleId :

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#6

Aniline

Concen: 16.856 ng

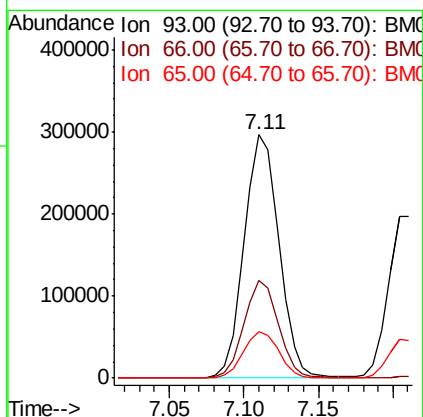
RT: 7.11 min Scan# 701

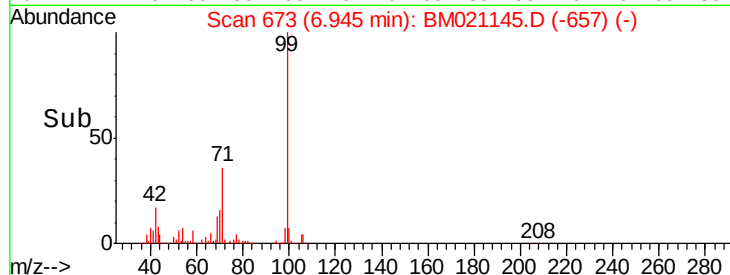
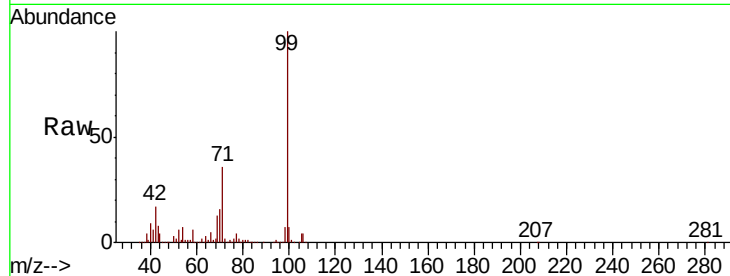
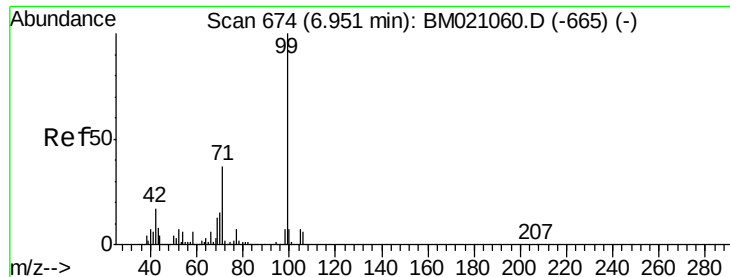
Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 93    | Resp: | 479703 |
| Ion      | Ratio | Lower | Upper  |
| 93       | 100   |       |        |
| 66       | 40.2  | 31.3  | 46.9   |
| 65       | 19.3  | 15.9  | 23.9   |





#7

Phenol-d6

Concen: 79.219 ng

RT: 6.95 min Scan# 673

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 99    | Resp: | 1692704 |
| Ion      | Ratio | Lower | Upper   |
| 99       | 100   |       |         |
| 42       | 17.1  | 13.5  | 20.3    |
| 71       | 36.4  | 29.3  | 43.9    |

Instrument :

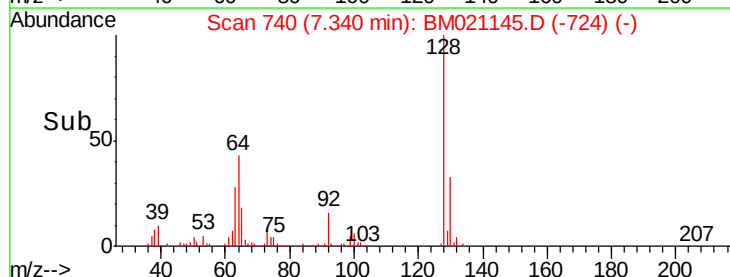
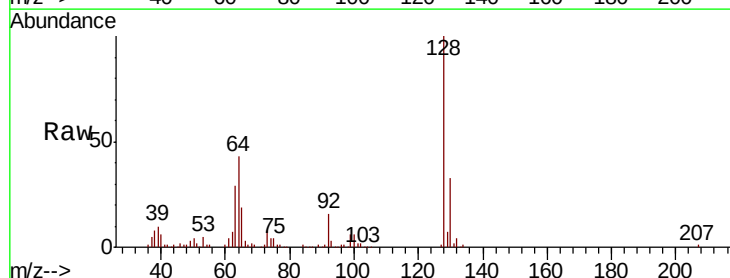
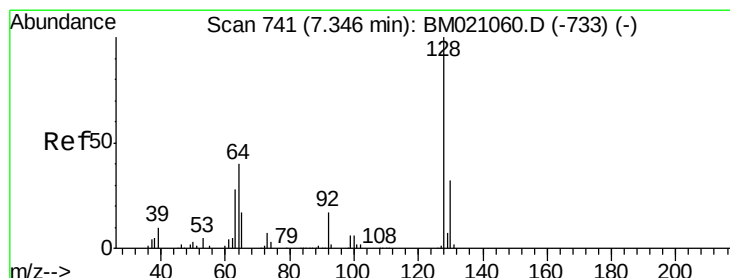
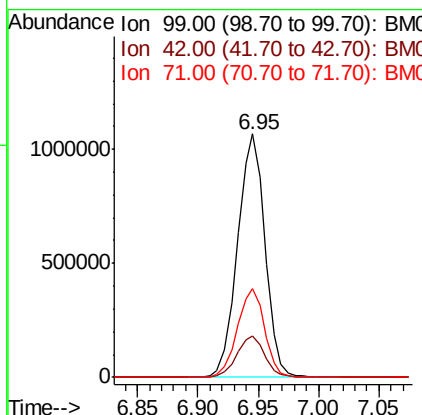
BNA\_M

ClientSampleId :

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#8

2-Chlorophenol

Concen: 18.288 ng

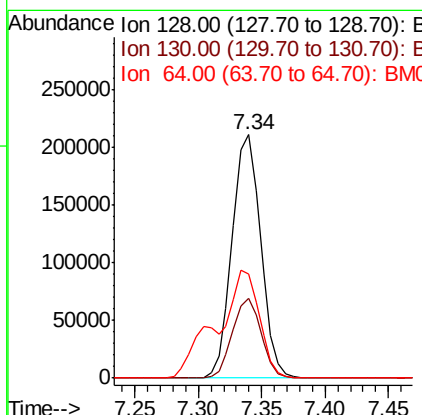
RT: 7.34 min Scan# 740

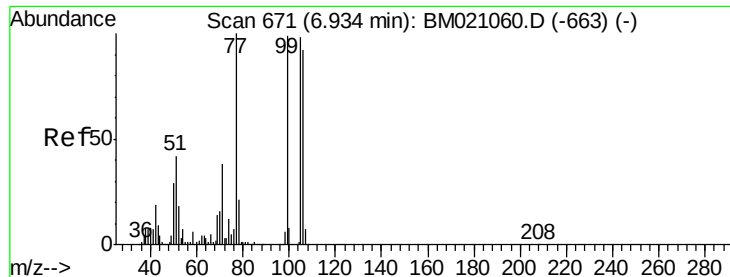
Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 330240 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 130      | 32.9  | 12.2  | 52.2   |
| 64       | 42.6  | 23.2  | 63.2   |





#9

Benzaldehyde

Concen: 22.676 ng

RT: 6.93 min Scan# 670

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

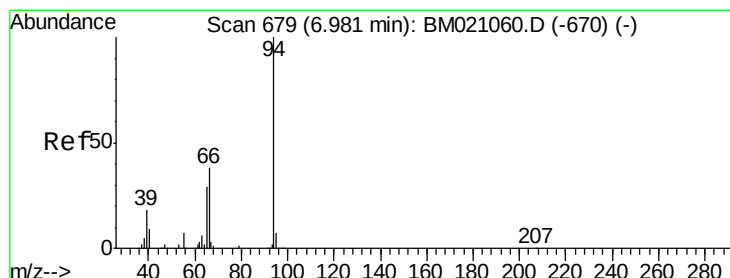
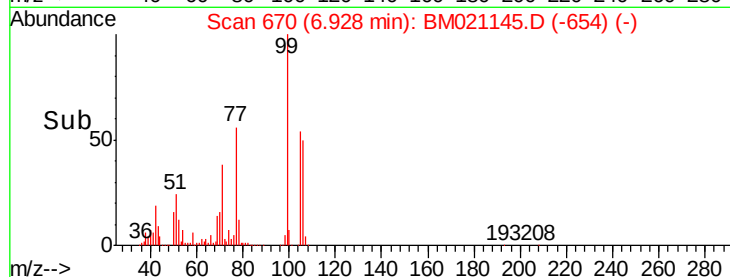
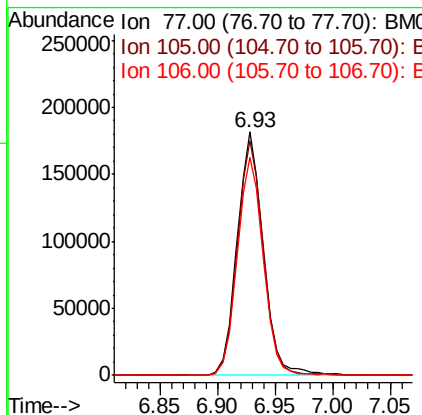
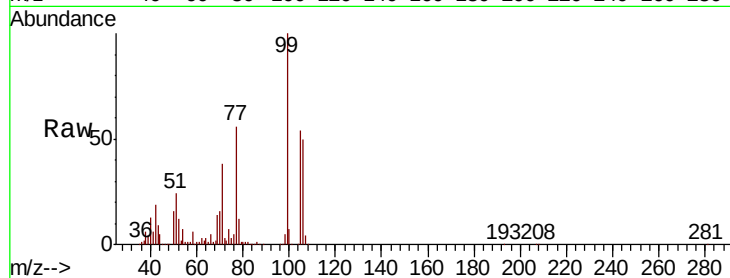
ClientSampleId :

LOQ-SOIL-02-QT2-2019

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 77    | Resp: | 284363 |
| Ion      | Ratio | Lower | Upper  |
| 77       | 100   |       |        |
| 105      | 96.4  | 77.8  | 117.8  |
| 106      | 89.8  | 71.8  | 111.8  |

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#10

Phenol

Concen: 18.378 ng

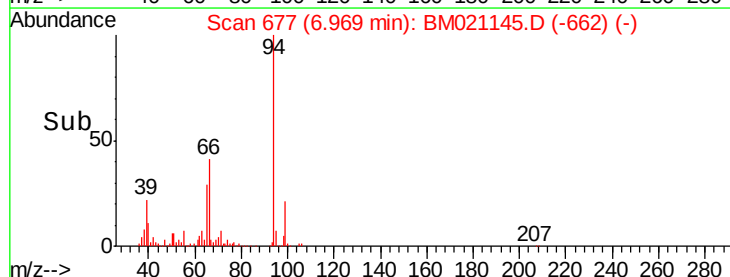
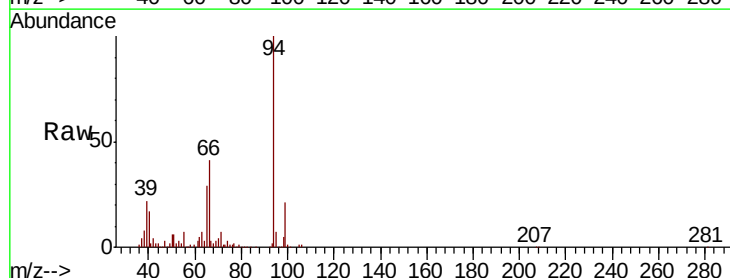
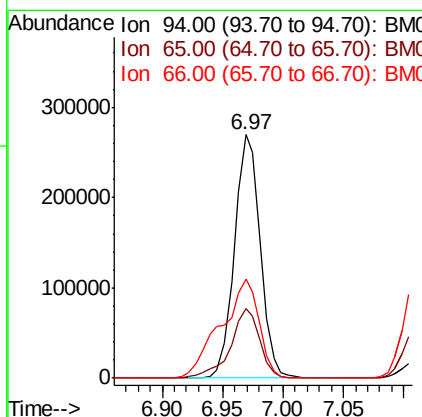
RT: 6.97 min Scan# 677

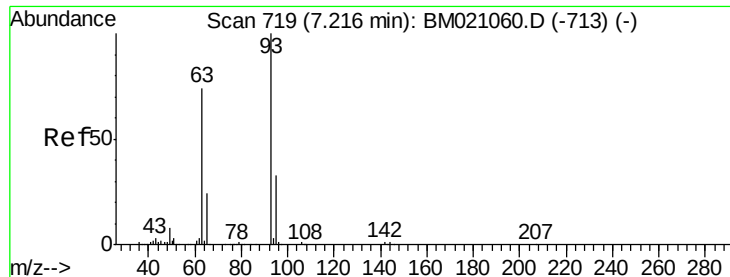
Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 94    | Resp: | 401179 |
| Ion      | Ratio | Lower | Upper  |
| 94       | 100   |       |        |
| 65       | 28.6  | 8.7   | 48.7   |
| 66       | 40.9  | 19.0  | 59.0   |





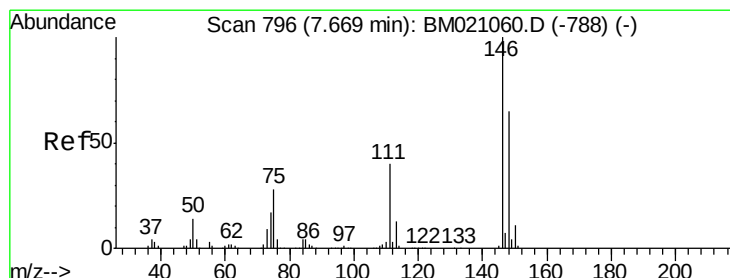
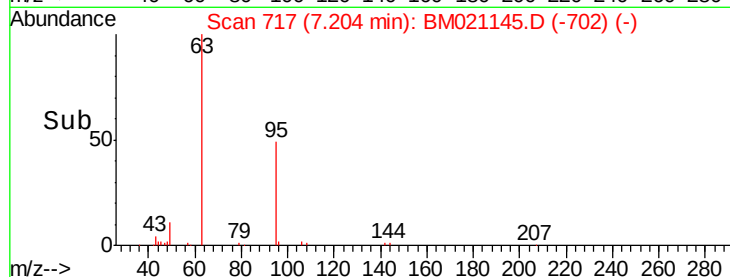
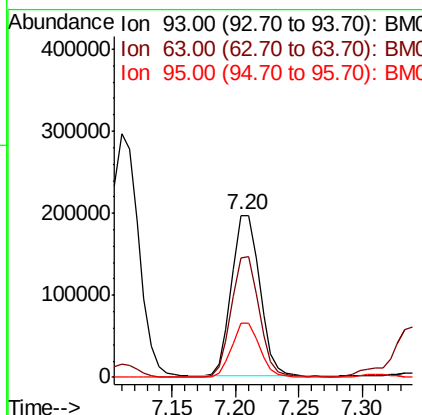
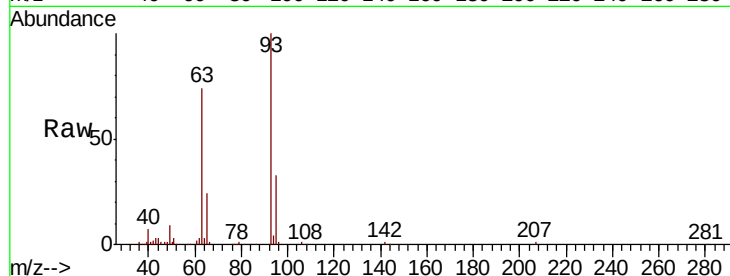
#11  
bis(2-Chloroethyl)ether  
Concen: 17.542 ng  
RT: 7.20 min Scan# 717  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 93      | 100   | 303163 |       |       |
| 63      | 73.6  |        | 53.4  | 93.4  |
| 95      | 33.2  |        | 13.0  | 53.0  |

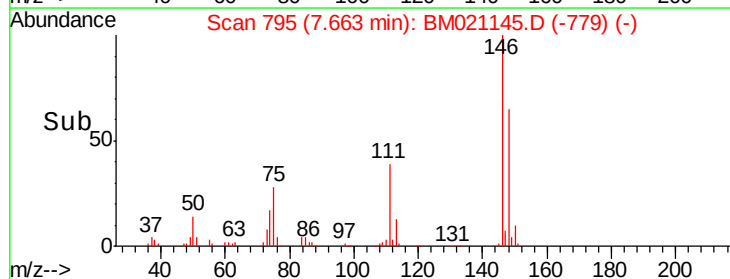
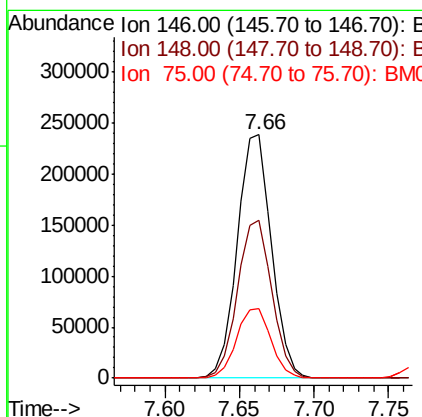
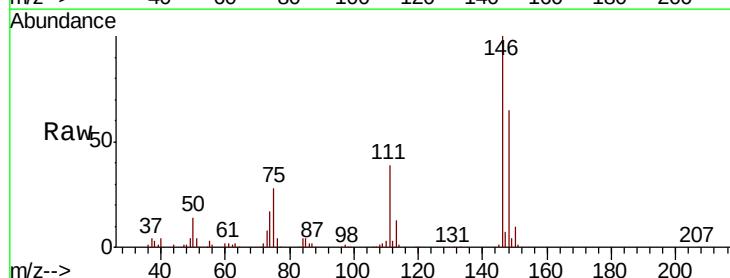
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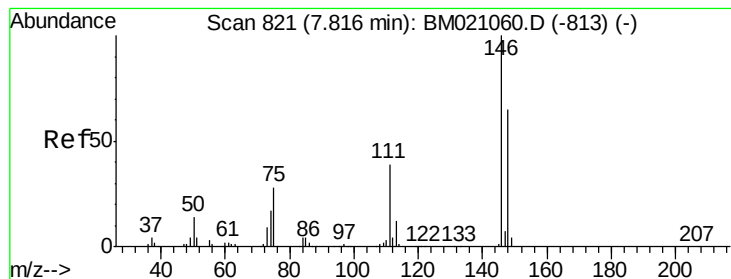
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#12  
1,3-Dichlorobenzene  
Concen: 17.359 ng  
RT: 7.66 min Scan# 795  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 379777 |       |       |
| 148     | 64.6  |        | 52.2  | 78.2  |
| 75      | 28.4  |        | 22.2  | 33.4  |





#13

1,4-Dichlorobenzene

Concen: 17.510 ng

RT: 7.81 min Scan# 820

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

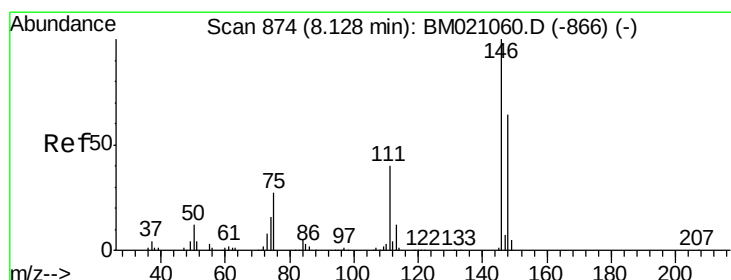
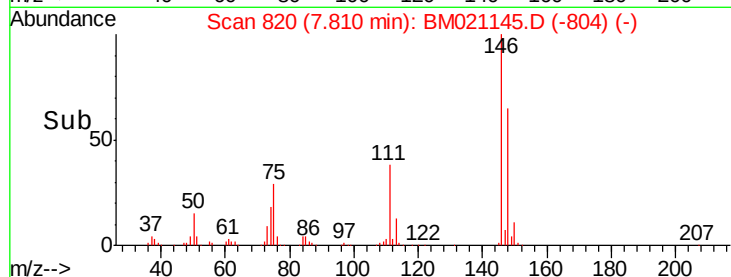
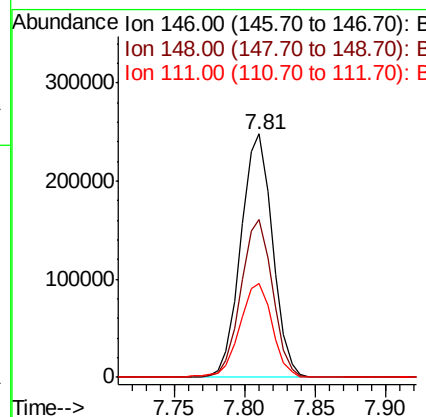
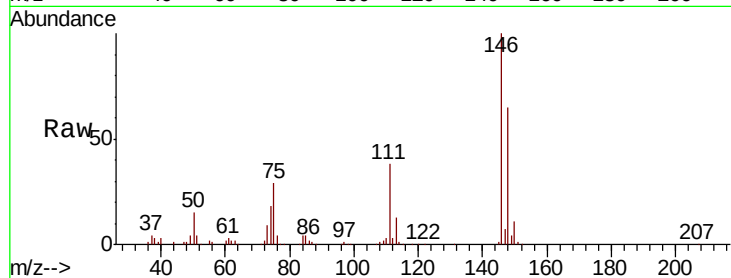
ClientSampleId :

LOQ-SOIL-02-QT2-2019

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 389481 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 64.8  | 51.9  | 77.9   |
| 111       | 38.5  | 31.4  | 47.0   |

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#14

1,2-Dichlorobenzene

Concen: 17.521 ng

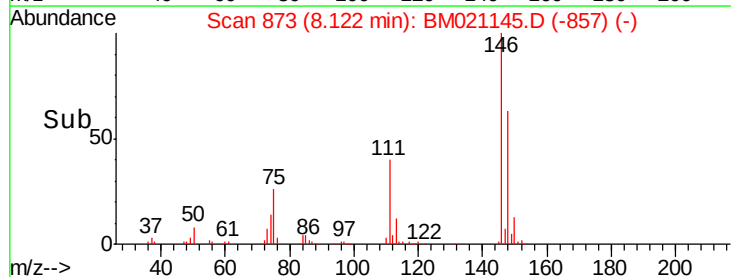
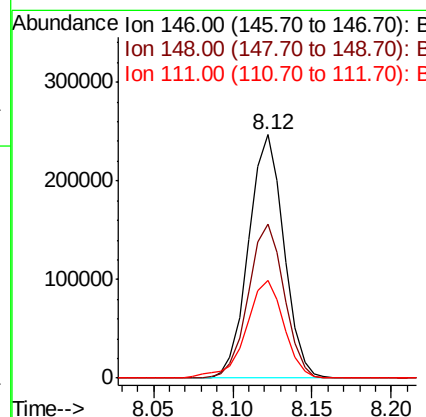
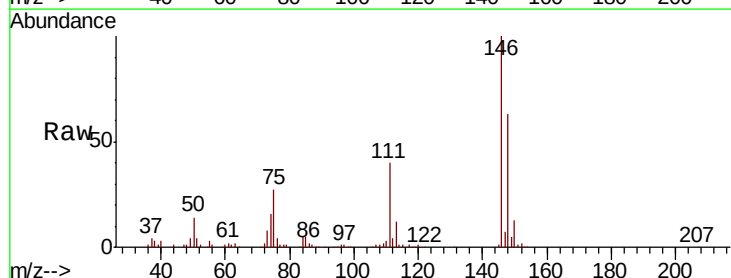
RT: 8.12 min Scan# 873

Delta R.T. -0.01 min

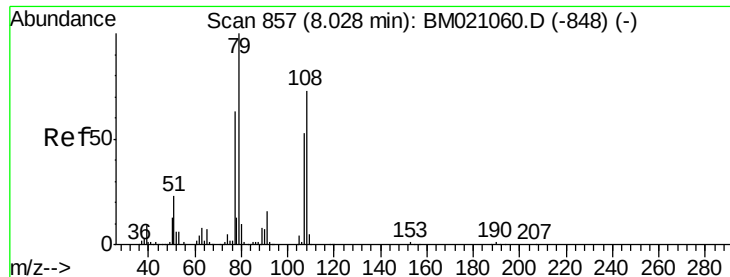
Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 381933 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 63.5  | 51.2  | 76.8   |
| 111       | 39.9  | 32.8  | 49.2   |







#15

Benzyl Alcohol

Concen: 17.646 ng

RT: 8.02 min Scan# 855

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

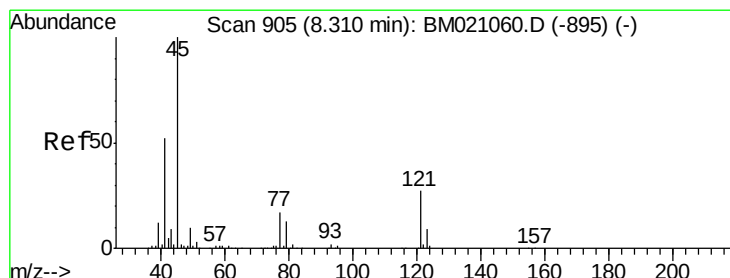
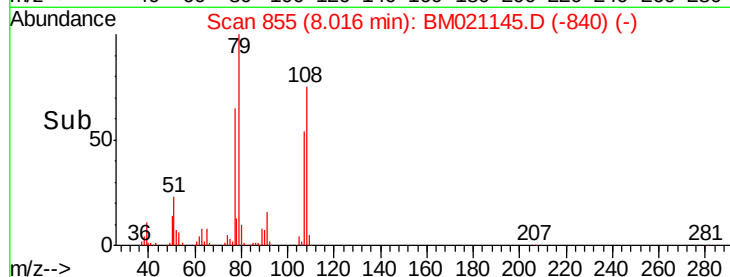
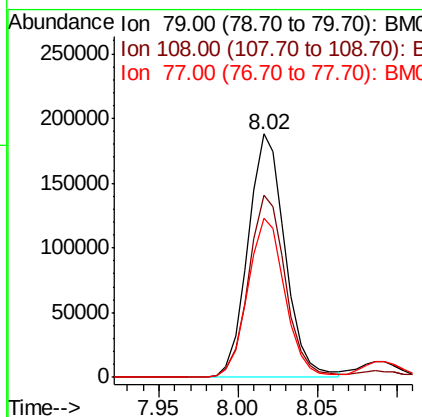
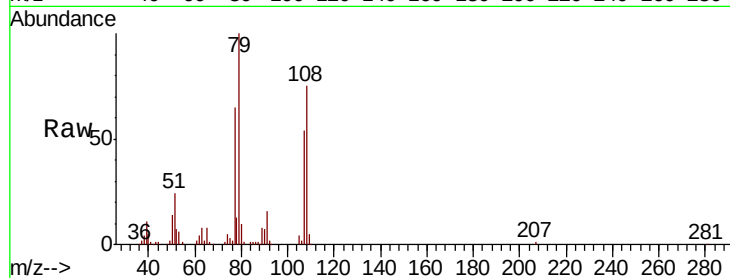
ClientSampleId :

LOQ-SOIL-02-QT2-2019

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 79    | Resp: | 305284 |
| Ion      | Ratio | Lower | Upper  |
| 79       | 100   |       |        |
| 108      | 74.8  | 58.4  | 87.6   |
| 77       | 65.1  | 50.1  | 75.1   |

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#16

2,2'-oxybis(1-Chloropropane)

Concen: 17.989 ng

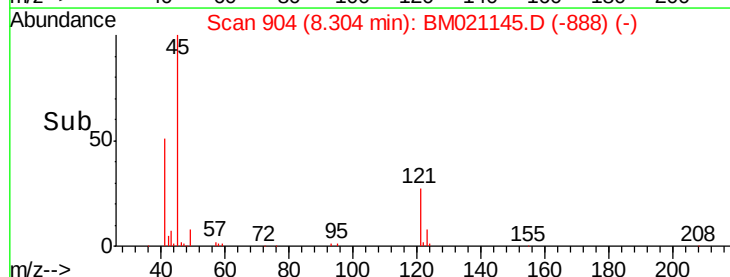
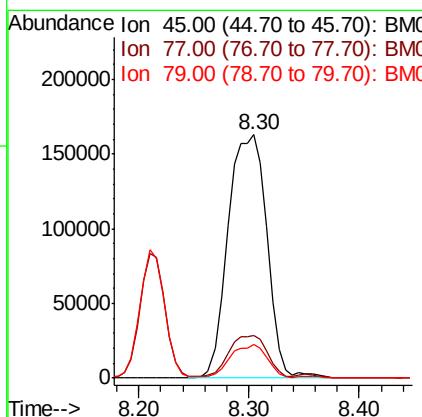
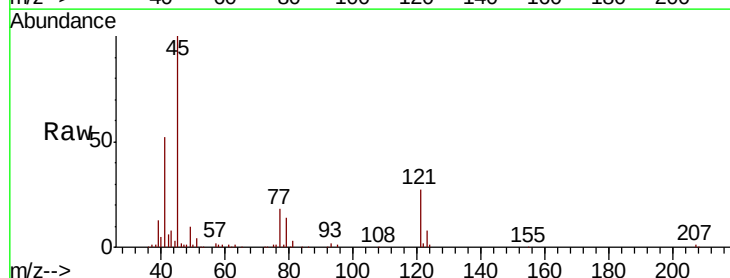
RT: 8.30 min Scan# 904

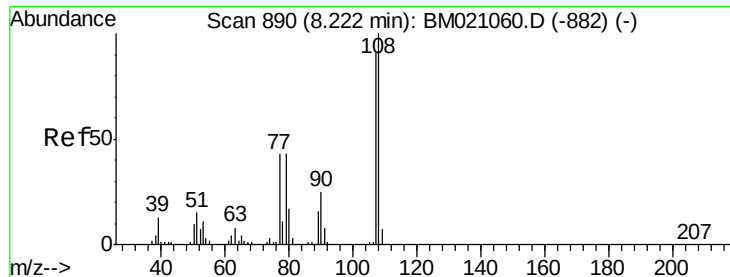
Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 45    | Resp: | 402138 |
| Ion      | Ratio | Lower | Upper  |
| 45       | 100   |       |        |
| 77       | 17.6  | 0.0   | 37.5   |
| 79       | 13.8  | 0.0   | 33.5   |





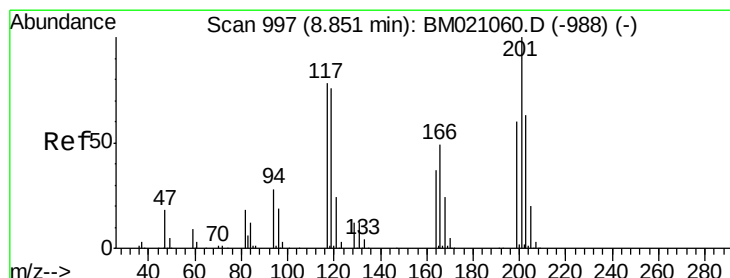
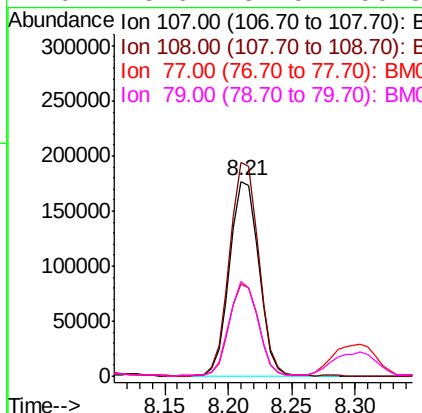
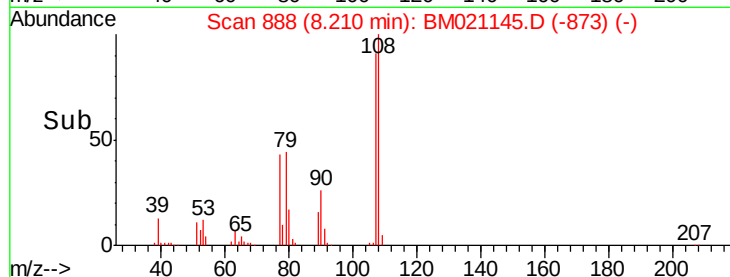
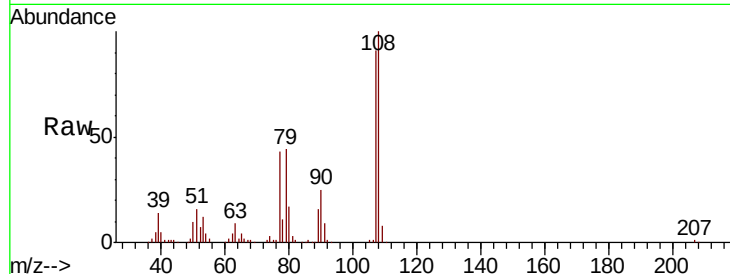
#17  
2-Methylphenol  
Concen: 18.029 ng  
RT: 8.21 min Scan# 888  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 107     | 100   |      |       |       |
| 108     | 109.6 | 87.5 | 131.3 |       |
| 77      | 47.2  | 37.8 | 56.8  |       |
| 79      | 48.6  | 37.5 | 56.3  |       |

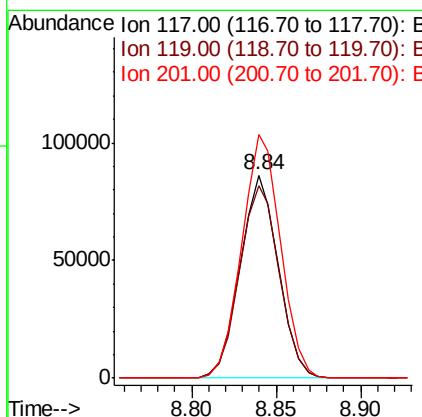
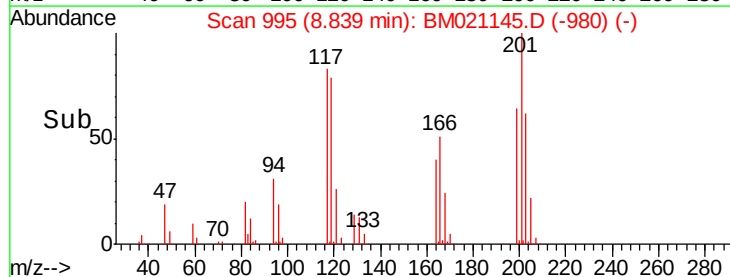
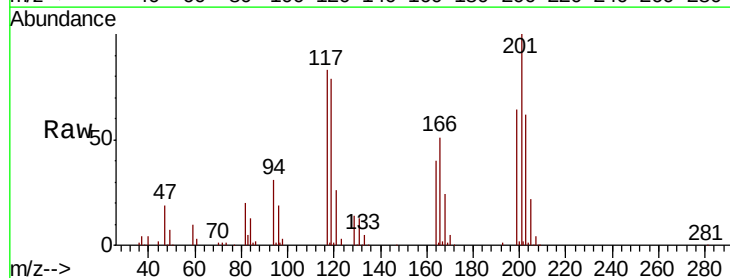
Manual Integrations  
APPROVED

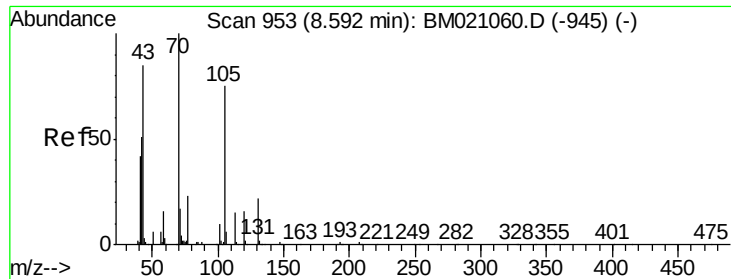
mohammad  
6/28/2019 8:25:57 AM



#18  
Hexachloroethane  
Concen: 16.942 ng  
RT: 8.84 min Scan# 995  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 117     | 100   |       |       |       |
| 119     | 94.5  | 77.5  | 116.3 |       |
| 201     | 119.9 | 102.3 | 153.5 |       |





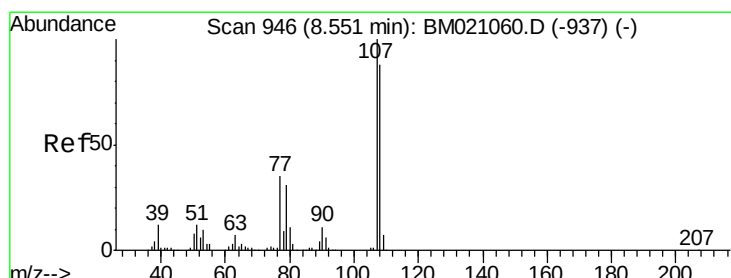
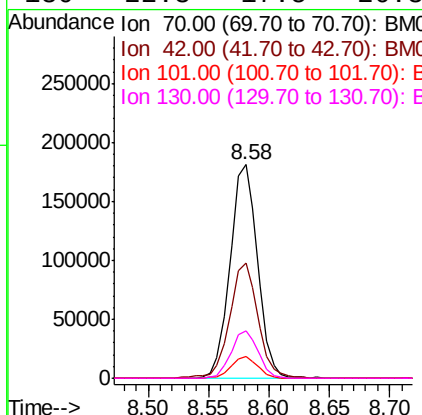
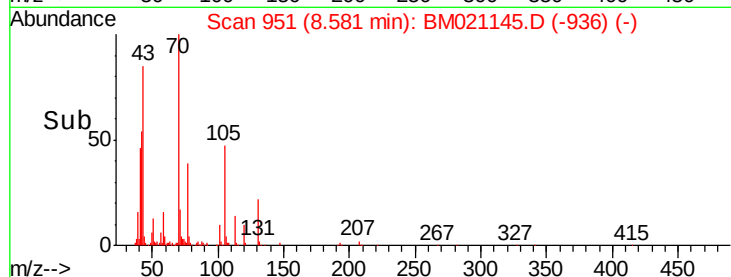
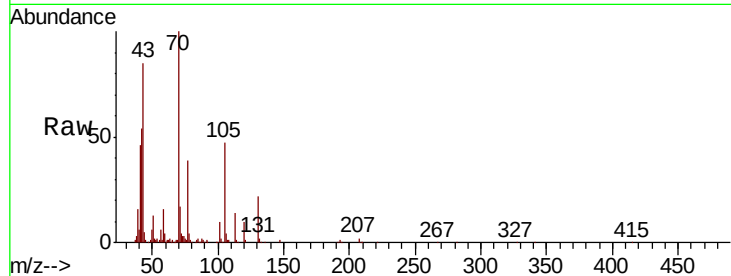
#19  
n-Nitroso-di-n-propylamine  
Concen: 18.475 ng  
RT: 8.58 min Scan# 951  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 70      | 100  |       | 287271 |       |       |
| 42      | 53.9 | 41.9  | 62.9   |       |       |
| 101     | 10.3 | 8.1   | 12.1   |       |       |
| 130     | 22.3 | 17.5  | 26.3   |       |       |

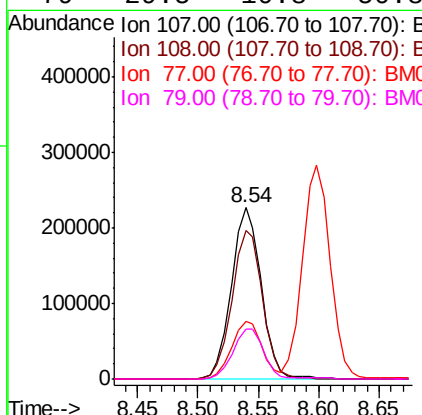
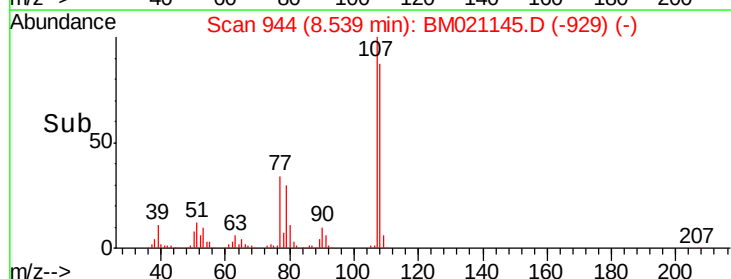
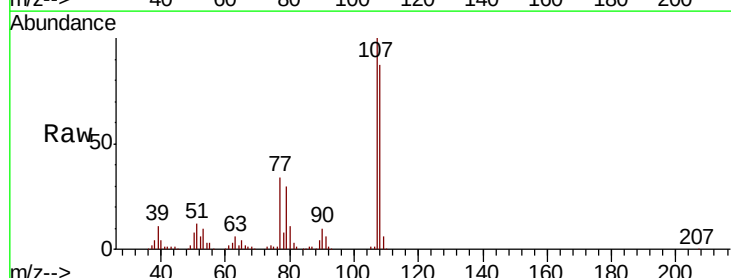
Manual Integrations  
APPROVED

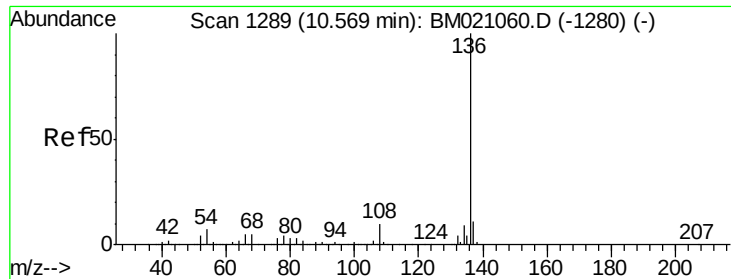
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#20  
3+4-Methylphenols  
Concen: 18.242 ng  
RT: 8.54 min Scan# 944  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 107     | 100  |       | 391532 |       |       |
| 108     | 87.0 | 67.9  | 107.9  |       |       |
| 77      | 33.7 | 14.6  | 54.6   |       |       |
| 79      | 29.5 | 10.8  | 50.8   |       |       |





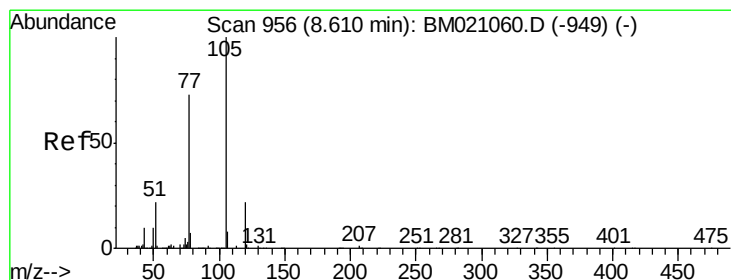
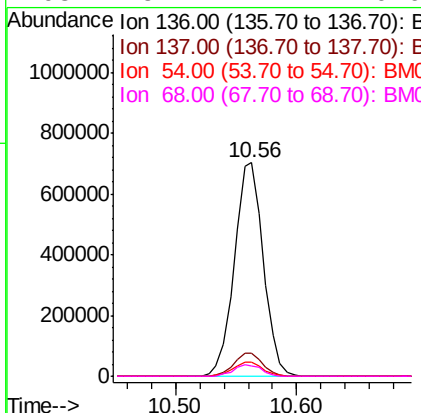
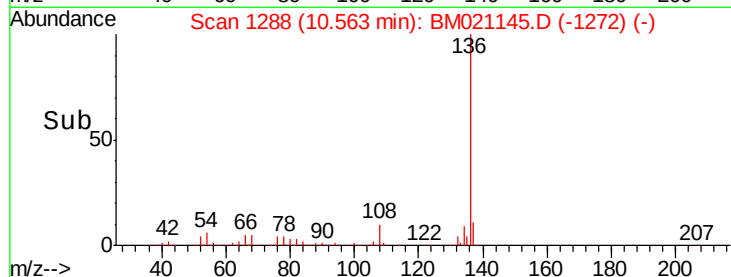
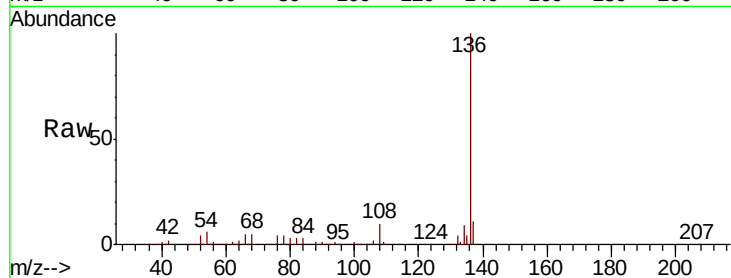
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.56 min Scan# 1288  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | 136   | Resp  | 1168954 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 136     | 100   |       |         |
| 137     | 10.9  | 8.6   | 13.0    |
| 54      | 6.3   | 5.3   | 7.9     |
| 68      | 5.1   | 4.4   | 6.6     |

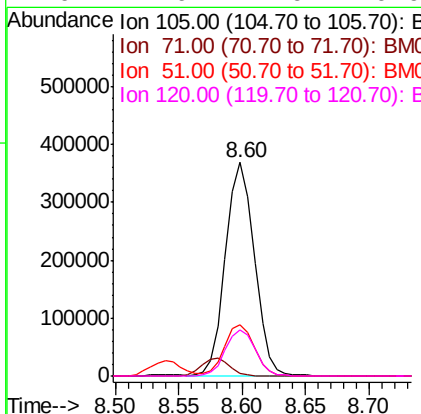
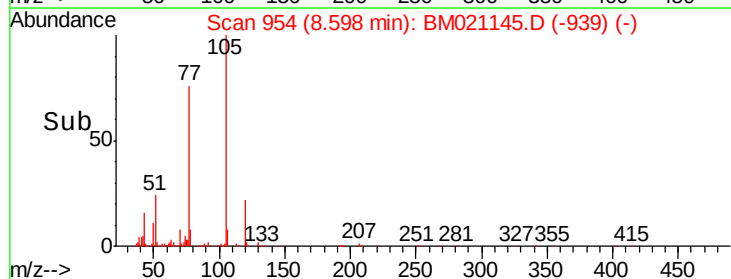
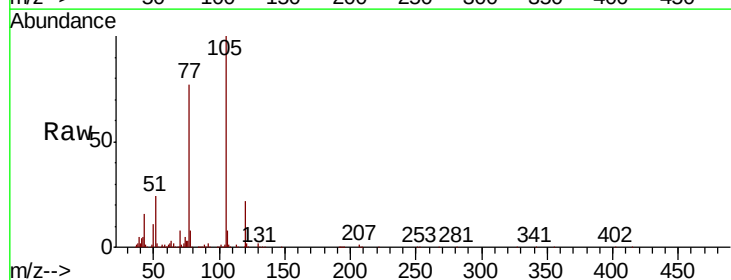
Manual Integrations  
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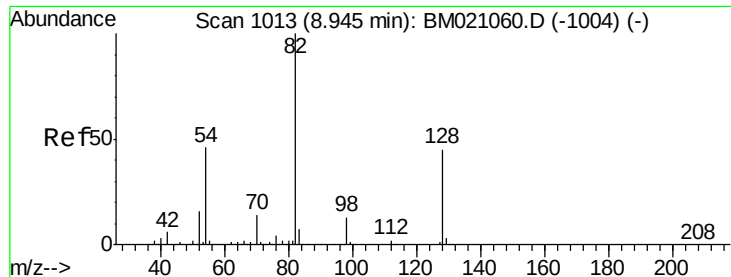
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#22  
Acetophenone  
Concen: 19.542 ng  
RT: 8.60 min Scan# 954  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | 105   | Resp  | 582111 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 105     | 100   |       |        |
| 71      | 1.5   | 1.2   | 1.8    |
| 51      | 24.1  | 19.1  | 28.7   |
| 120     | 21.6  | 17.9  | 26.9   |





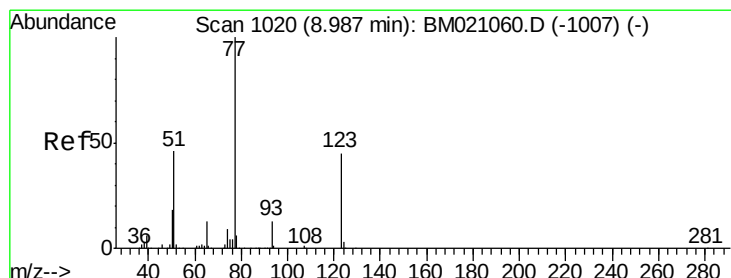
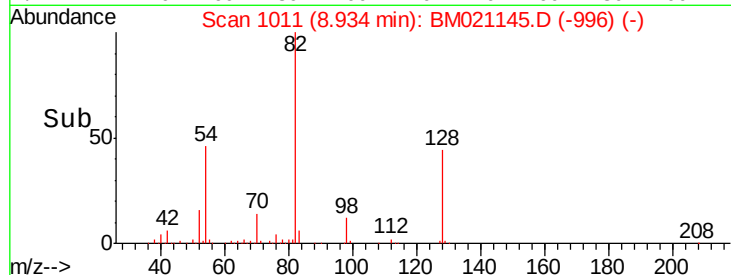
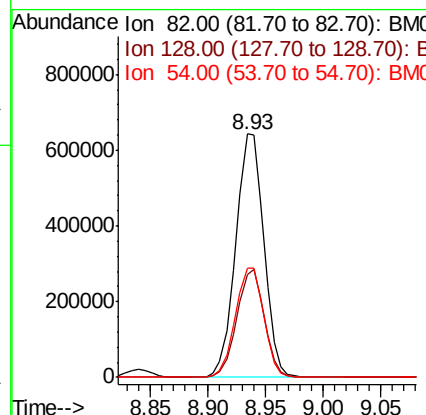
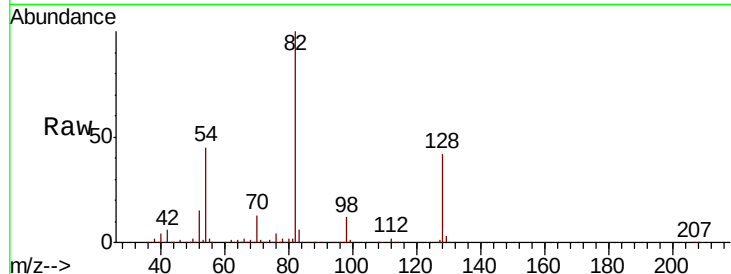
#23  
 Nitrobenzene-d5  
 Concen: 48.403 ng  
 RT: 8.93 min Scan# 1011  
 Delta R.T. -0.01 min  
 Lab File: BM021145.D  
 Acq: 24 Jun 2019 13:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2019

| Tot Ion   | 82   | Resp  | 1085646 |
|-----------|------|-------|---------|
| Ion Ratio | 100  | Lower | Upper   |
| 82        | 100  |       |         |
| 128       | 42.4 | 35.9  | 53.9    |
| 54        | 44.8 | 36.6  | 55.0    |

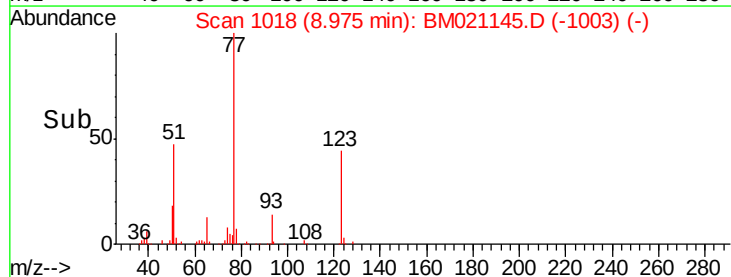
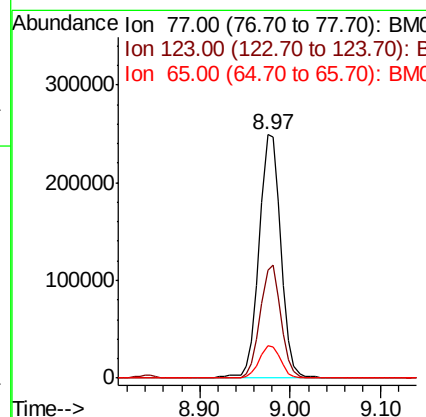
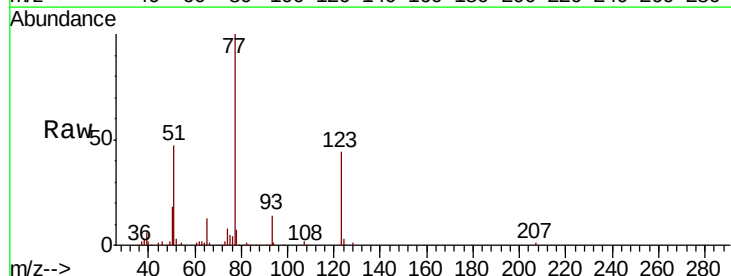
Manual Integrations  
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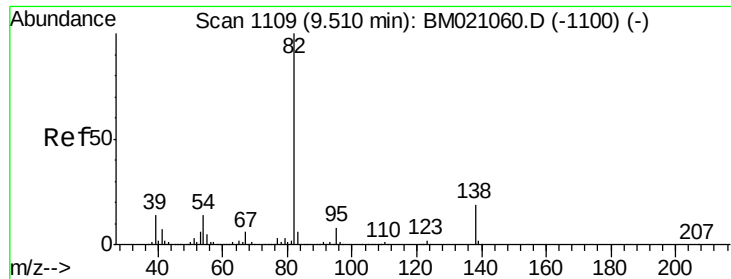
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#24  
 Nitrobenzene  
 Concen: 18.642 ng  
 RT: 8.97 min Scan# 1018  
 Delta R.T. -0.01 min  
 Lab File: BM021145.D  
 Acq: 24 Jun 2019 13:03

| Tgt Ion   | 77   | Resp  | 414203 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 77        | 100  |       |        |
| 123       | 44.1 | 36.3  | 54.5   |
| 65        | 13.5 | 10.6  | 16.0   |





#25

Isophorone

Concen: 18.880 ng

RT: 9.50 min Scan# 1107

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

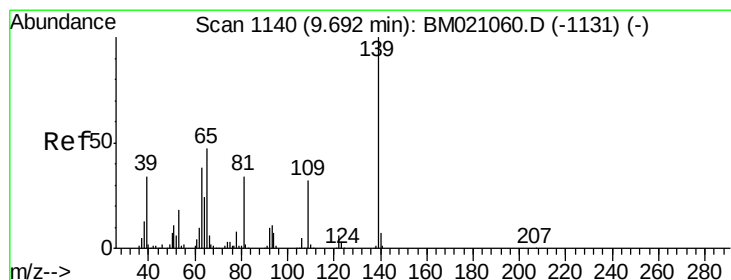
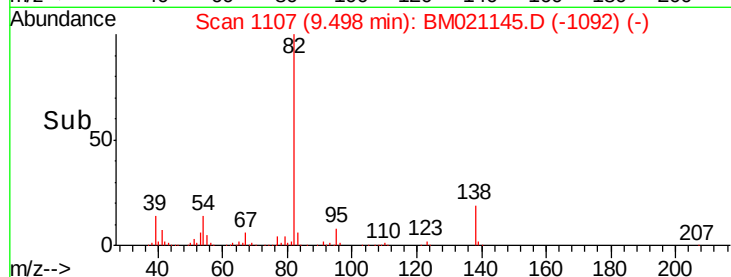
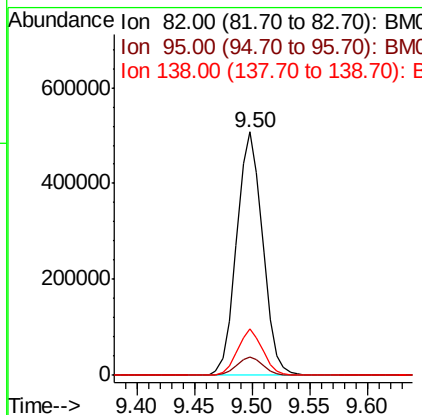
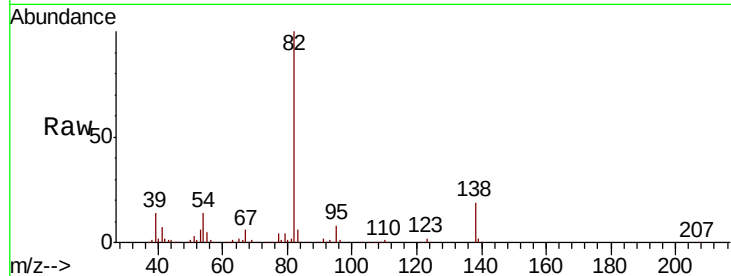
ClientSampleId :

LOQ-SOIL-02-QT2-2019

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 792368 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 7.7   | 6.1   | 9.1    |
| 138       | 19.0  | 15.0  | 22.6   |

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#26

2-Nitrophenol

Concen: 18.085 ng

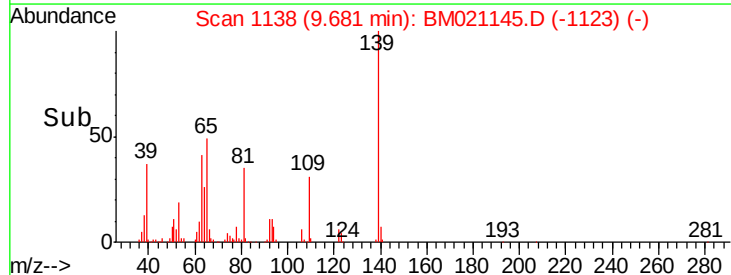
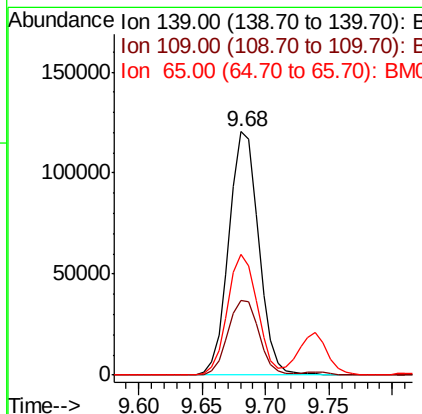
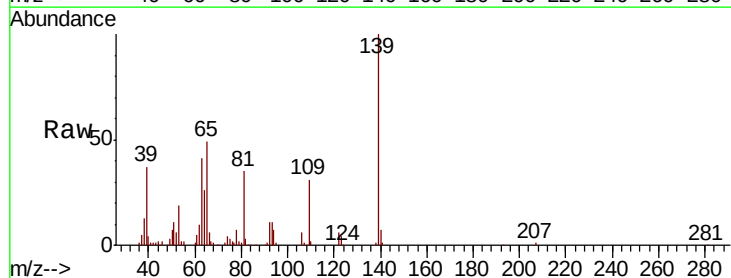
RT: 9.68 min Scan# 1138

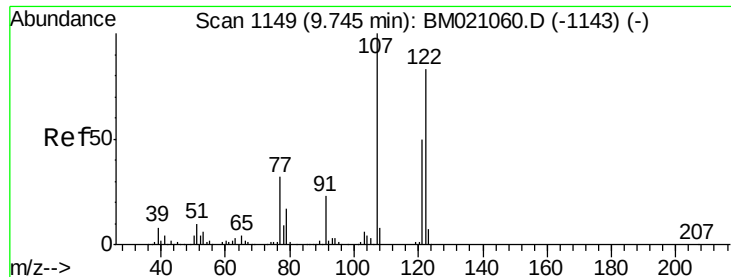
Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 139   | Resp: | 196751 |
| Ion Ratio | Lower | Upper |        |
| 139       | 100   |       |        |
| 109       | 30.7  | 25.2  | 37.8   |
| 65        | 49.4  | 37.4  | 56.0   |





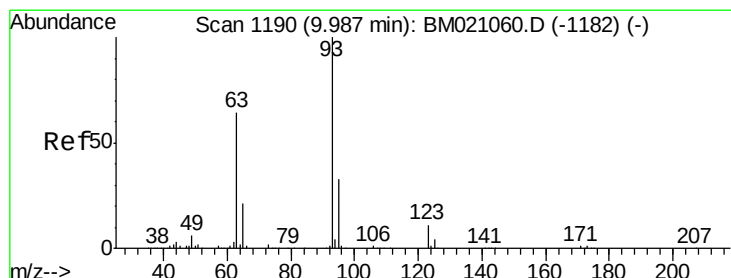
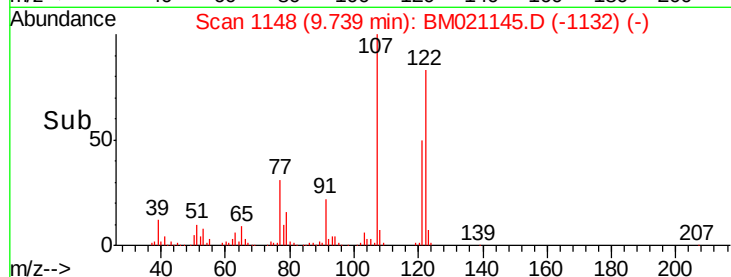
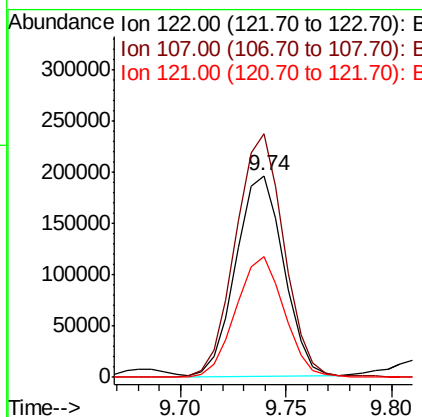
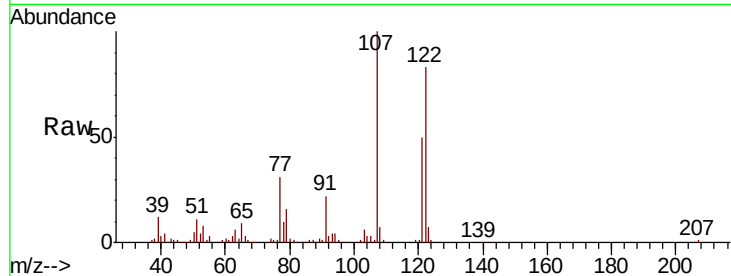
#27  
2,4-Dimethylphenol  
Concen: 19.401 ng  
RT: 9.74 min Scan# 1148  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 122     | 100   | 307852 |       |       |
| 107     | 120.6 | 95.3   | 142.9 |       |
| 121     | 60.0  | 47.5   | 71.3  |       |

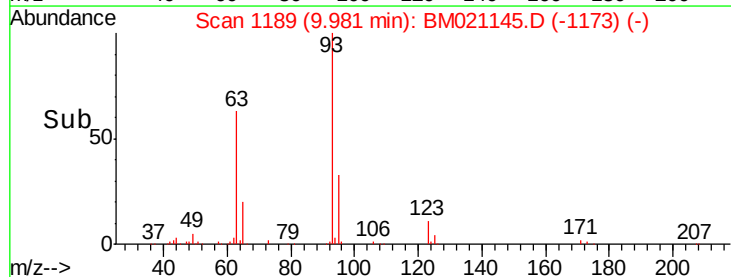
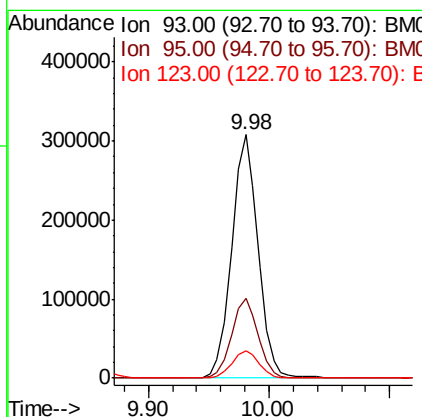
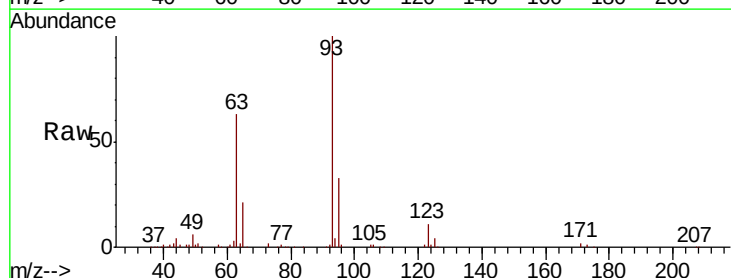
Manual Integrations  
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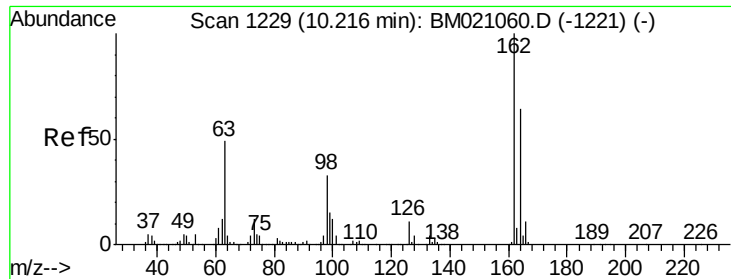
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#28  
bis(2-Chloroethoxy)methane  
Concen: 17.948 ng  
RT: 9.98 min Scan# 1189  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 93      | 100   | 468059 |       |       |
| 95      | 32.9  | 26.2   | 39.2  |       |
| 123     | 11.3  | 9.0    | 13.4  |       |





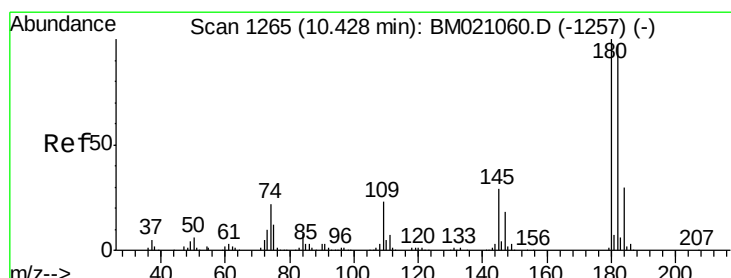
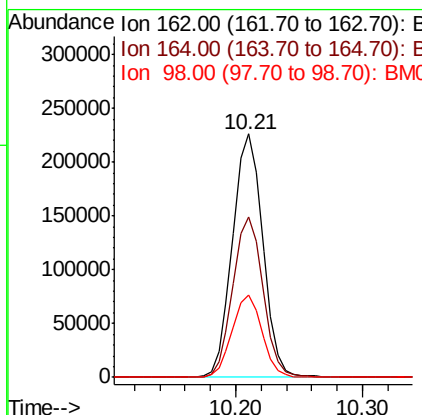
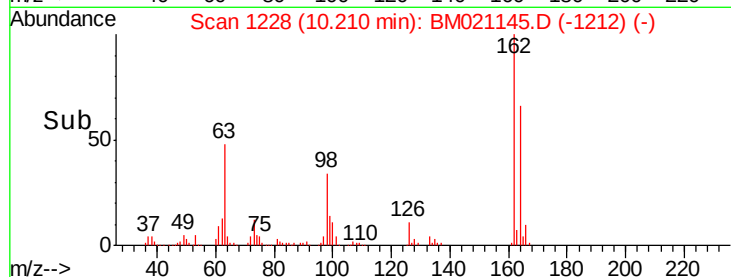
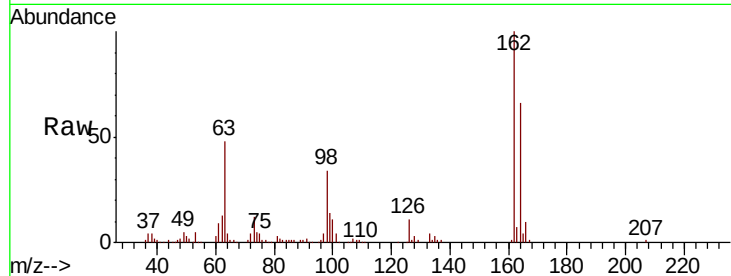
#29  
2,4-Dichlorophenol  
Concen: 18.228 ng  
RT: 10.21 min Scan# 1228  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 65.8  | 43.7  | 83.7  |
| 98      | 33.8  | 13.4  | 53.4  |

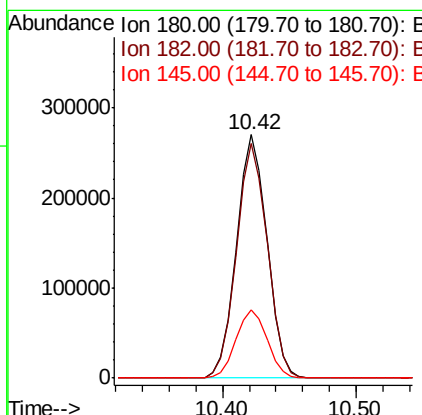
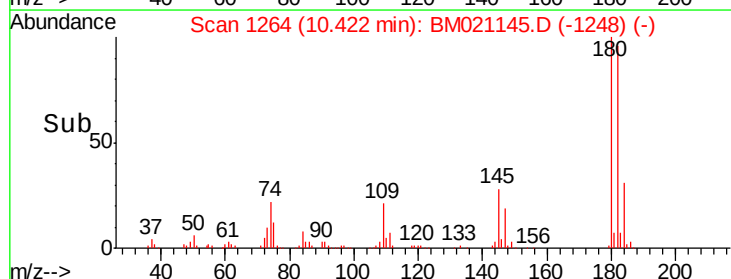
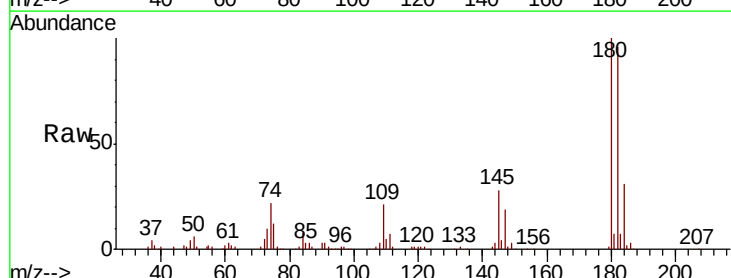
Manual Integrations  
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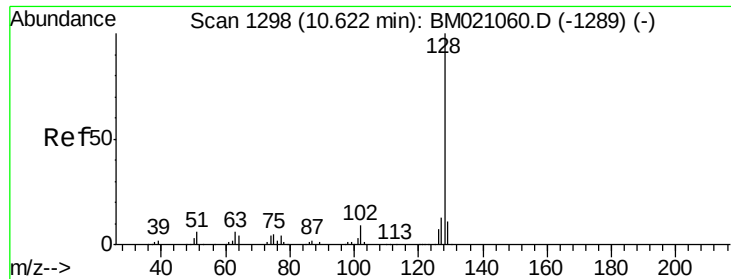


#30  
1,2,4-Trichlorobenzene  
Concen: 17.692 ng  
RT: 10.42 min Scan# 1264  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.4  | 78.0  | 117.0 |
| 145     | 28.0  | 23.4  | 35.0  |







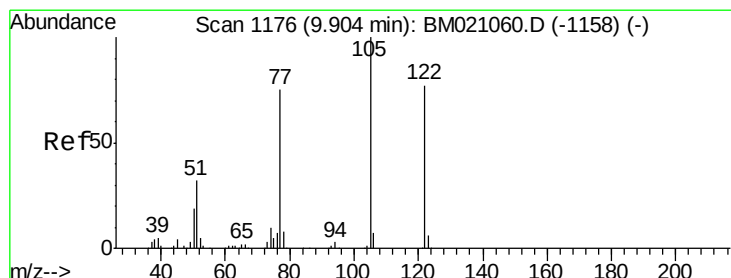
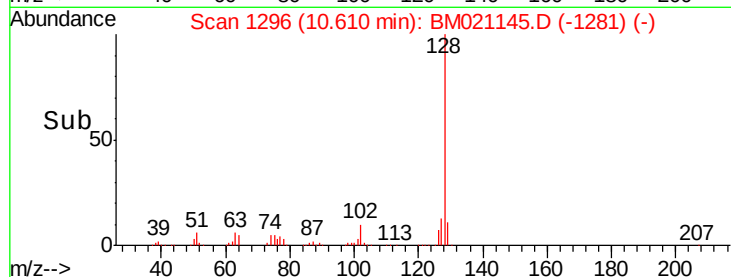
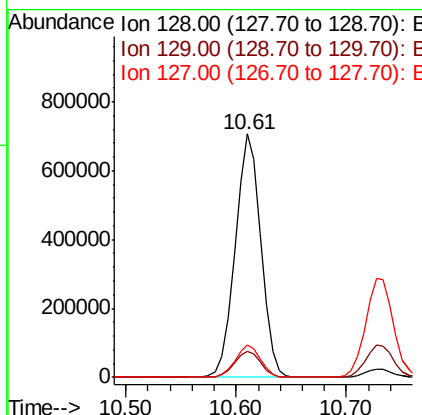
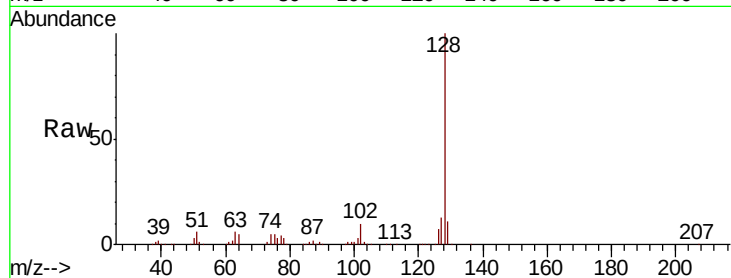
#31  
Naphthalene  
Concen: 18.553 ng  
RT: 10.61 min Scan# 1296  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.9  | 8.6   | 13.0  |
| 127     | 13.2  | 10.8  | 16.2  |

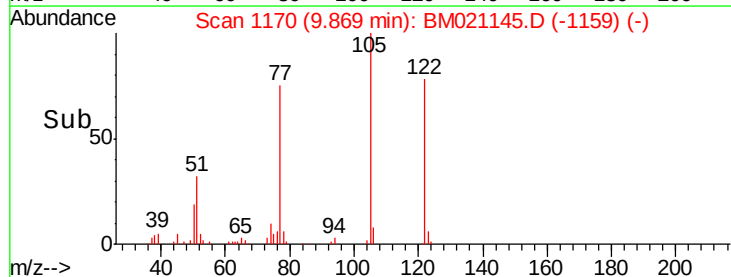
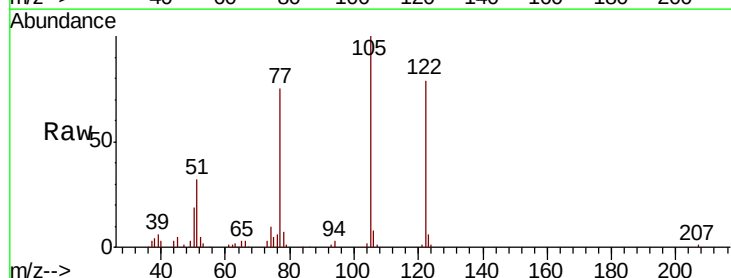
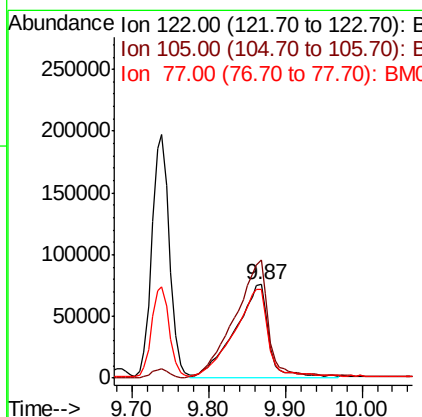
Manual Integrations  
APPROVED

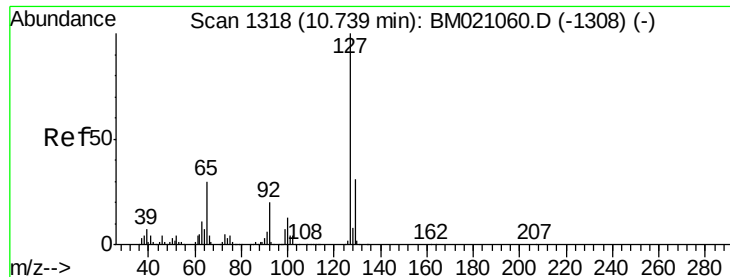
mohammad  
6/28/2019 8:25:57 AM



#32  
Benzoic acid  
Concen: 18.498 ng m  
RT: 9.87 min Scan# 1170  
Delta R.T. -0.04 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 105     | 127.0 | 108.9 | 148.9 |
| 77      | 95.2  | 76.7  | 116.7 |





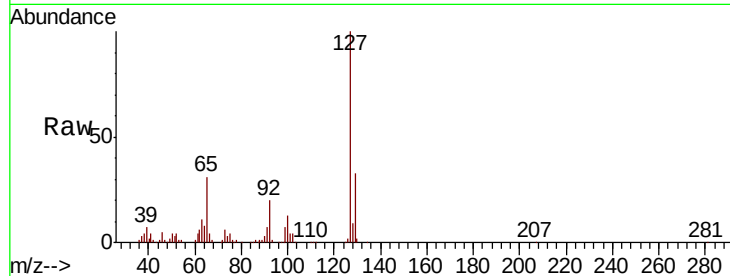
#33  
4-Chloroaniline  
Concen: 17.984 ng  
RT: 10.73 min Scan# 1316  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 127     | 100   |      |       |       |
| 129     | 33.2  | 25.1 | 37.7  |       |
| 65      | 30.6  | 23.8 | 35.8  |       |
| 92      | 19.7  | 15.7 | 23.5  |       |

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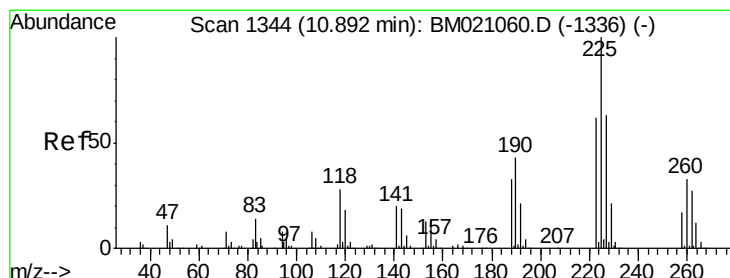
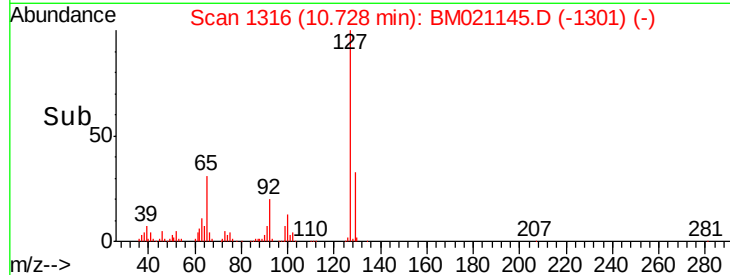
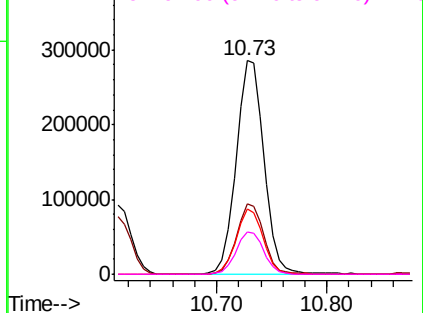
Abundance

Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

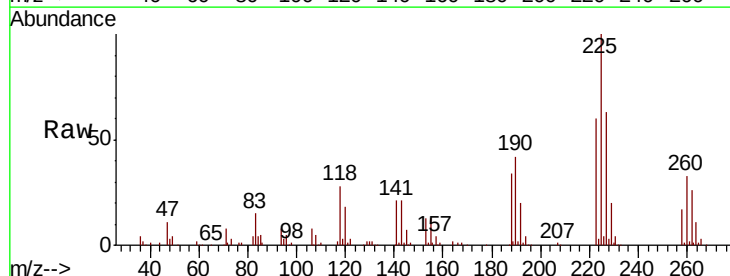
Ion 65.00 (64.70 to 65.70): BM

Ion 92.00 (91.70 to 92.70): BM



#34  
Hexachlorobutadiene  
Concen: 17.089 ng  
RT: 10.88 min Scan# 1342  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 225     | 100   |      |       |       |
| 223     | 60.1  | 49.6 | 74.4  |       |
| 227     | 62.7  | 50.4 | 75.6  |       |

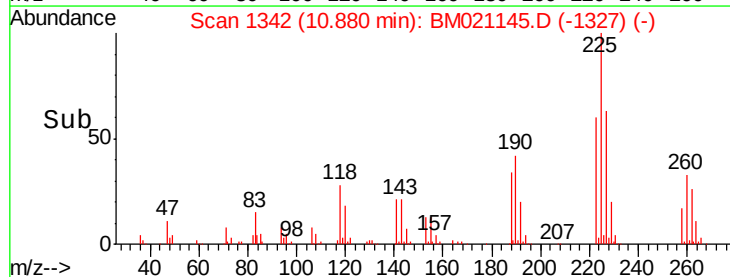
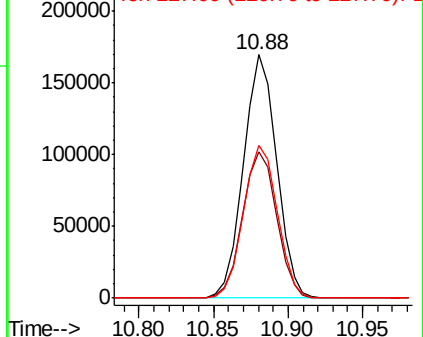


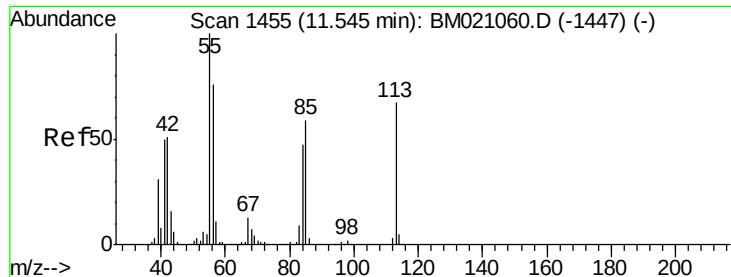
Abundance

Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





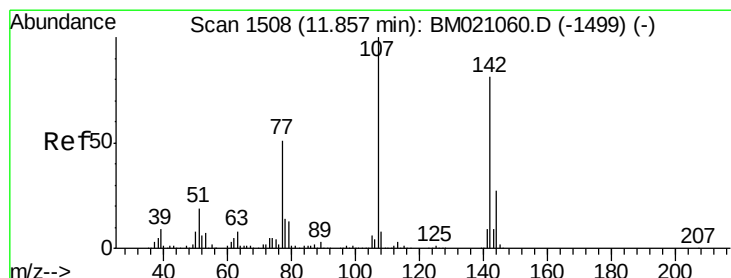
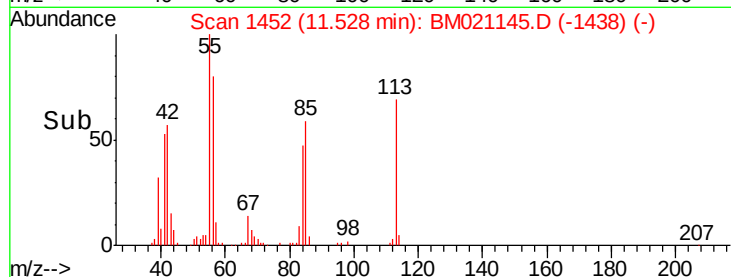
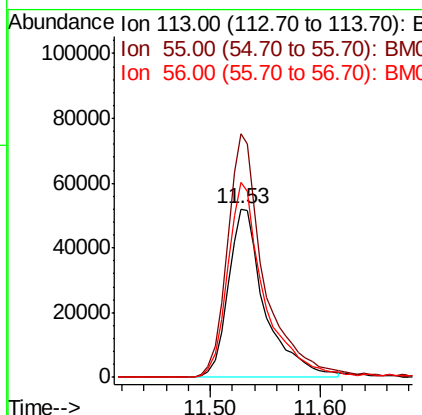
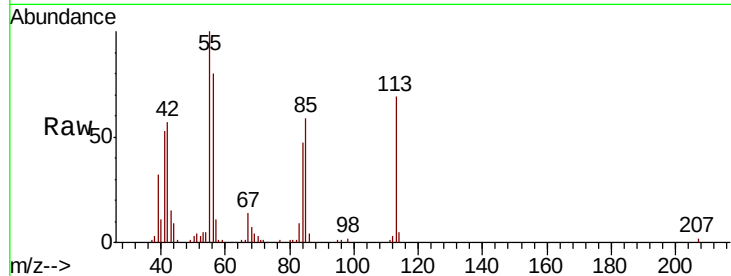
#35  
Caprolactam  
Concen: 18.839 ng  
RT: 11.53 min Scan# 1452  
Delta R.T. -0.02 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 113     | 100   |       |       |       |
| 55      | 144.5 | 129.8 | 169.8 |       |
| 56      | 115.9 | 94.3  | 134.3 |       |

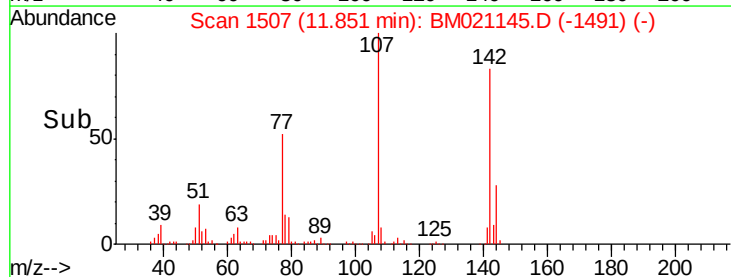
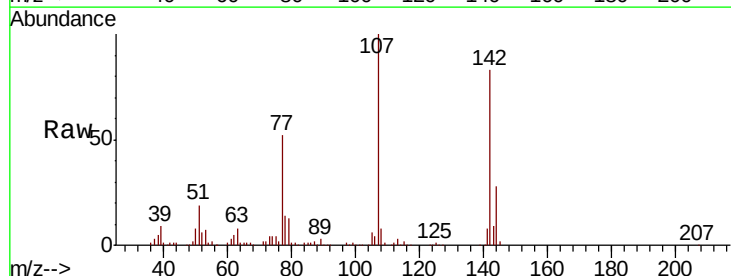
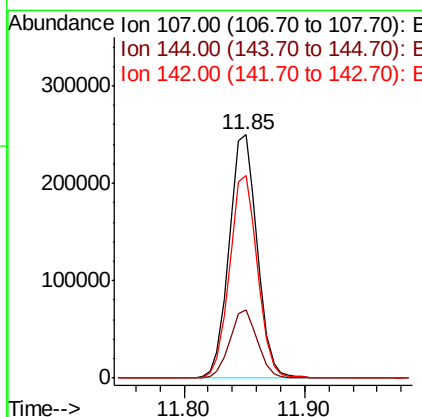
Manual Integrations  
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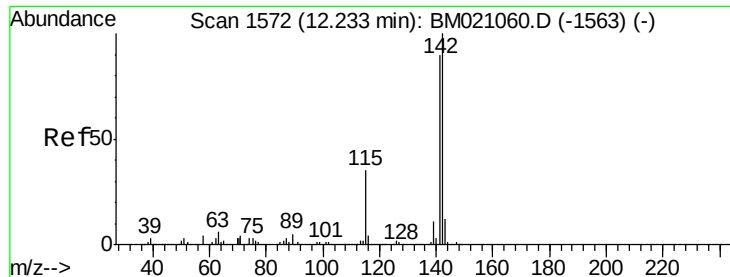
mohammad  
6/28/2019 8:25:57 AM



#36  
4-Chloro-3-methylphenol  
Concen: 19.384 ng  
RT: 11.85 min Scan# 1507  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 107     | 100   |      |       |       |
| 144     | 27.9  | 21.3 | 31.9  |       |
| 142     | 83.5  | 64.9 | 97.3  |       |





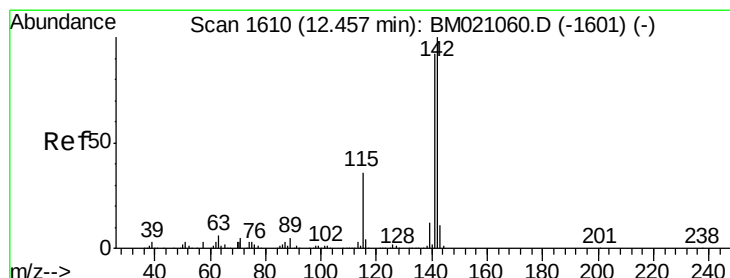
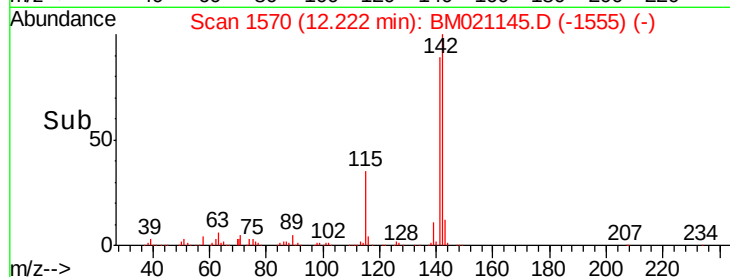
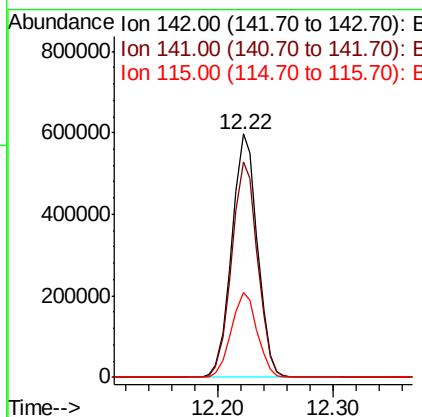
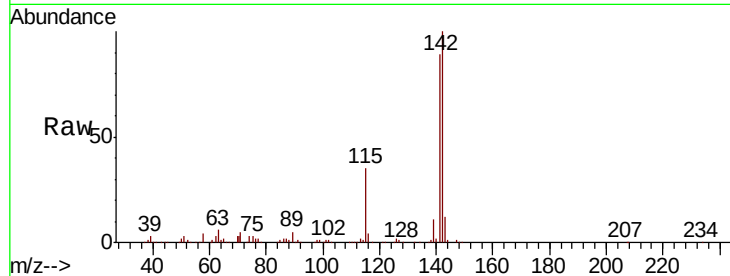
#37  
2-Methylnaphthalene  
Concen: 19.341 ng  
RT: 12.22 min Scan# 1570  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.5  | 72.2  | 108.2 |
| 115     | 35.1  | 27.9  | 41.9  |

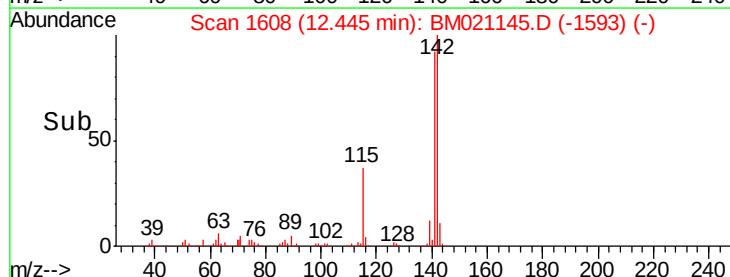
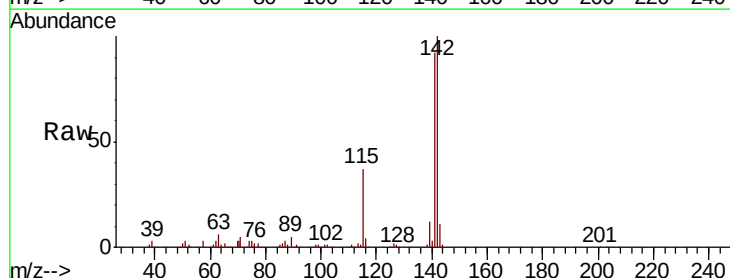
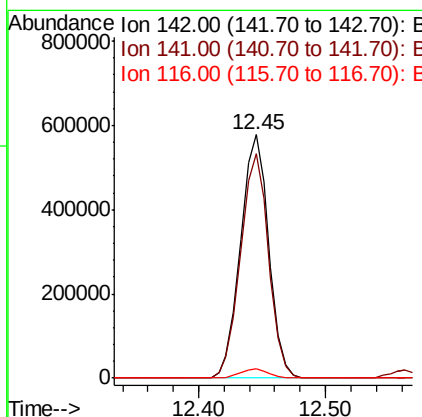
Manual Integrations  
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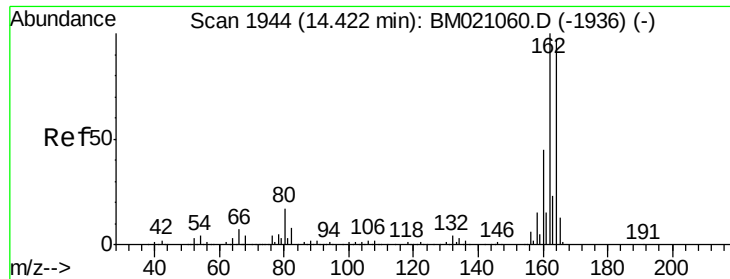
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#38  
1-Methylnaphthalene  
Concen: 19.520 ng  
RT: 12.45 min Scan# 1608  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.0  | 73.9  | 110.9 |
| 116     | 3.8   | 3.0   | 4.6   |





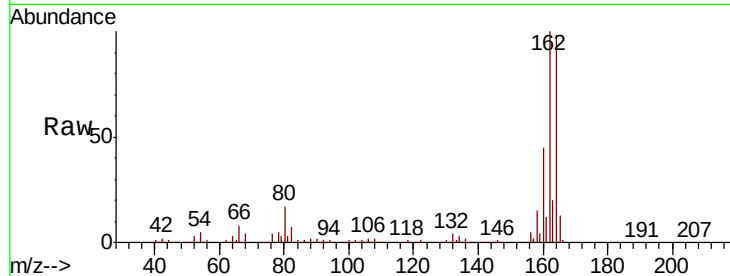
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.41 min Scan# 1942  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 101.7 | 82.1 | 123.1 |       |
| 160     | 45.6  | 37.1 | 55.7  |       |

Manual Integrations  
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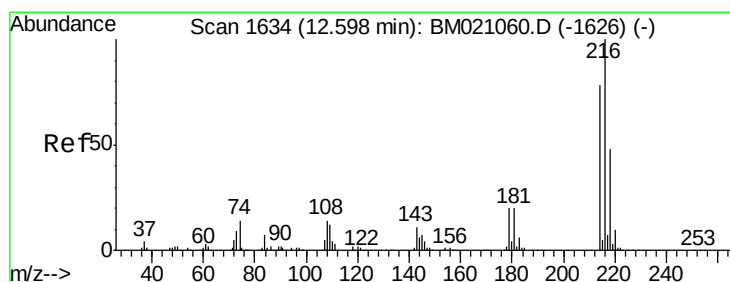
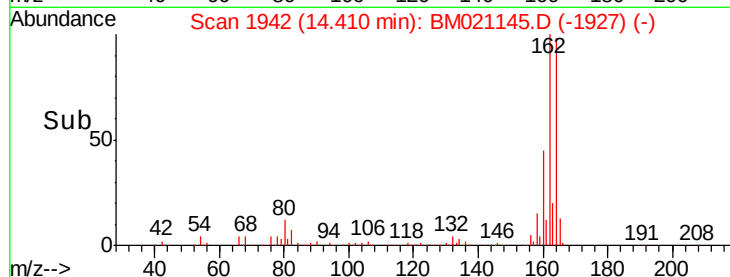
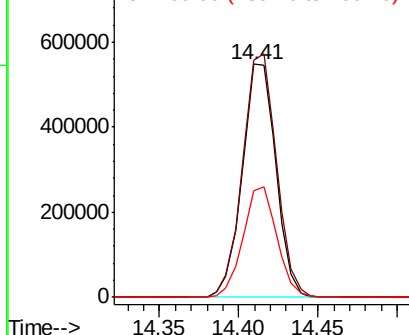


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 18.526 ng  
RT: 12.59 min Scan# 1633  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 216     | 100   |      |       |       |
| 214     | 78.8  | 63.0 | 94.6  |       |
| 179     | 20.6  | 16.4 | 24.6  |       |
| 108     | 15.4  | 12.5 | 18.7  |       |

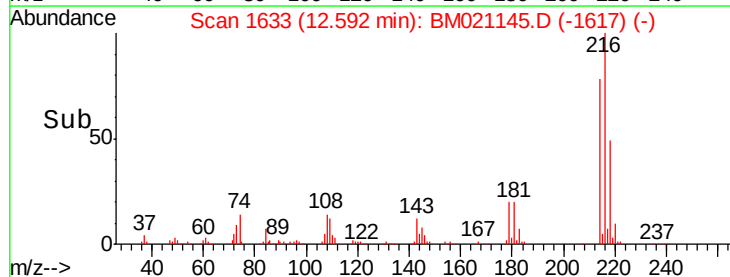
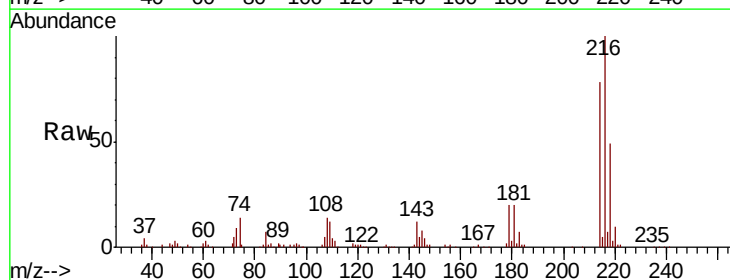
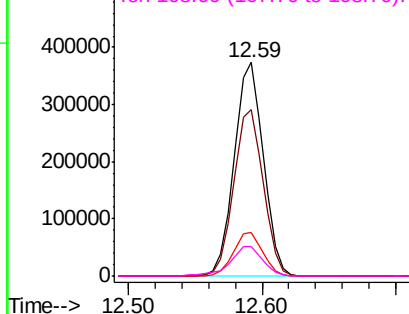
Abundance

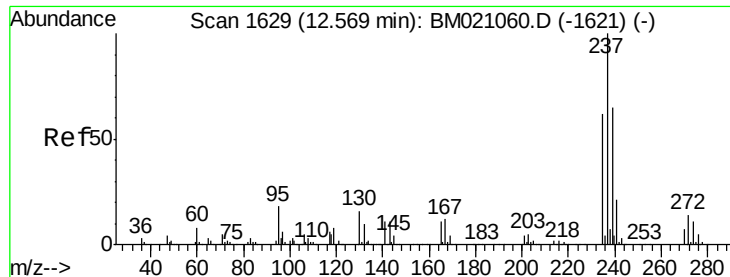
Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





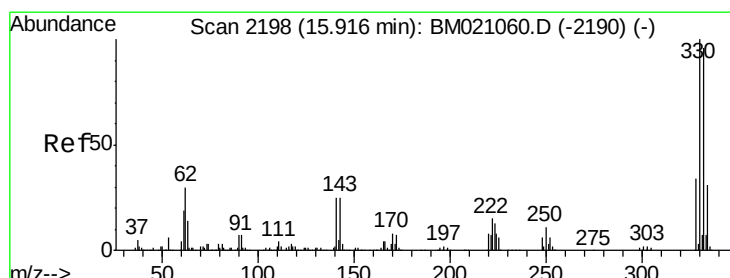
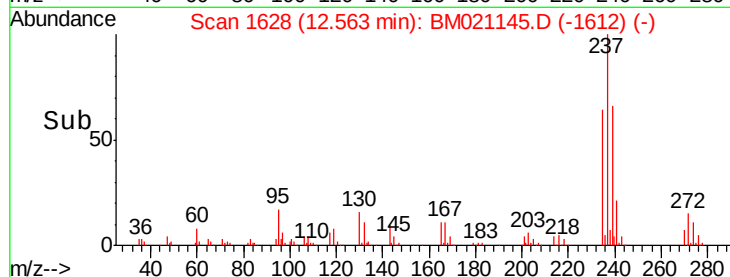
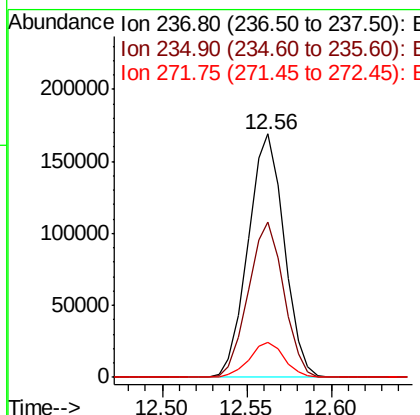
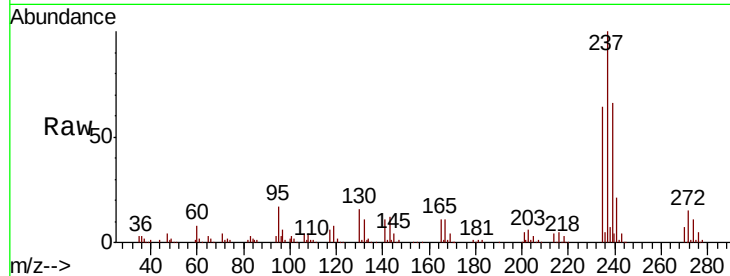
#41  
Hexachlorocyclopentadiene  
Concen: 14.174 ng  
RT: 12.56 min Scan# 1628  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 237     | 100   |            |       |
| 235     | 63.7  | 41.7       | 81.7  |
| 272     | 14.5  | 0.0        | 34.1  |

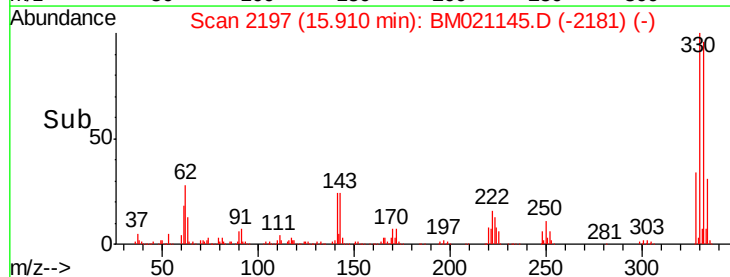
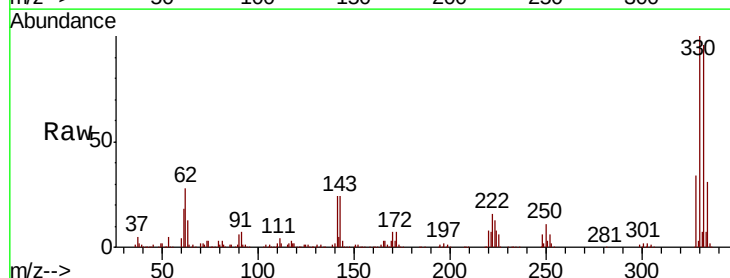
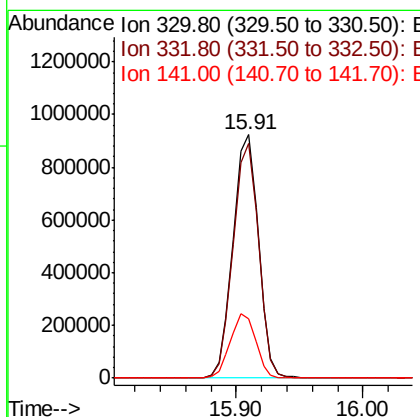
Manual Integrations  
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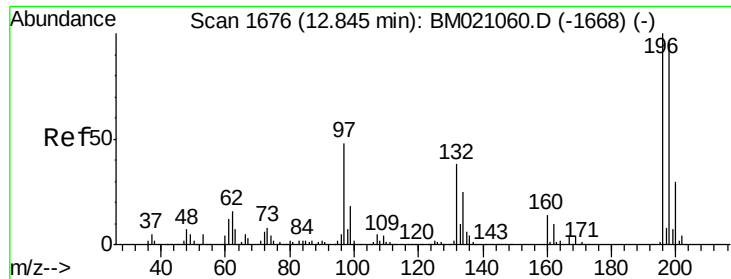
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#42  
2,4,6-Tribromophenol  
Concen: 84.553 ng  
RT: 15.91 min Scan# 2197  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 330     | 100   |            |       |
| 332     | 96.4  | 77.1       | 115.7 |
| 141     | 26.8  | 21.8       | 32.8  |





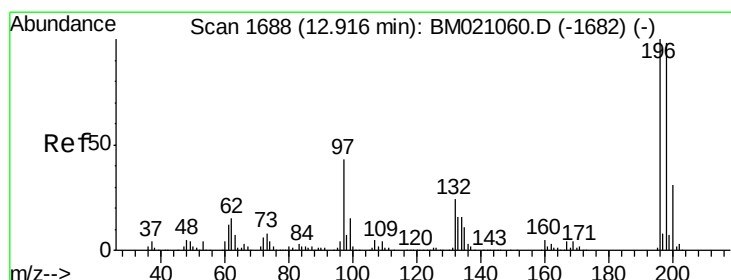
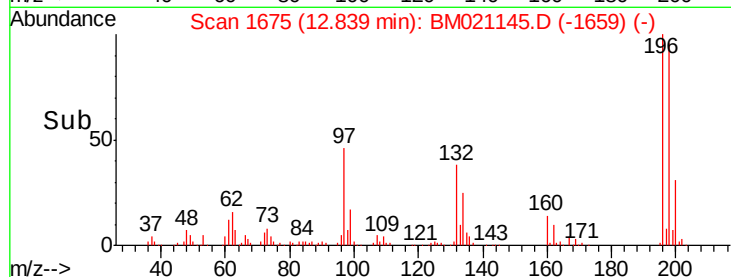
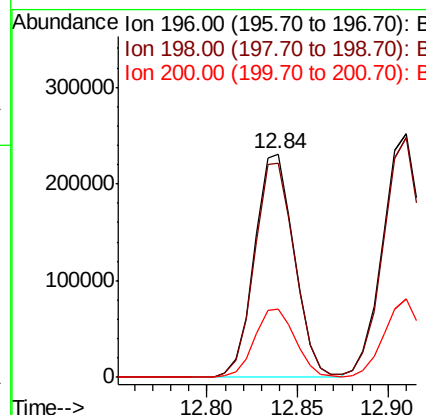
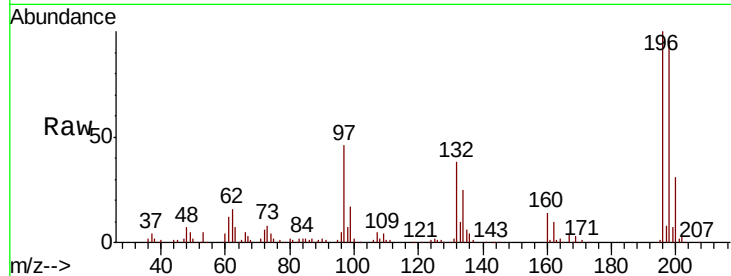
#43  
 2,4,6-Trichlorophenol  
 Concen: 17.408 ng  
 RT: 12.84 min Scan# 1675  
 Delta R.T. -0.01 min  
 Lab File: BM021145.D  
 Acq: 24 Jun 2019 13:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 352488 |       |       |
| 198     | 95.8  | 76.7   | 115.1 |       |
| 200     | 30.8  | 24.2   | 36.4  |       |

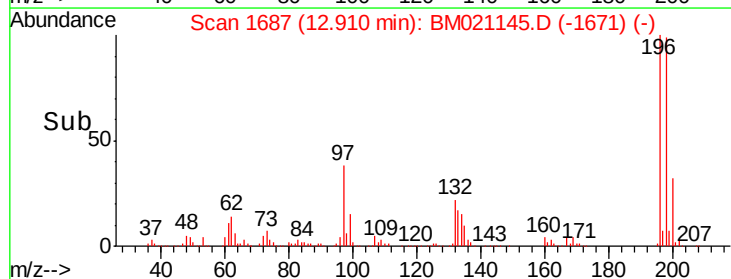
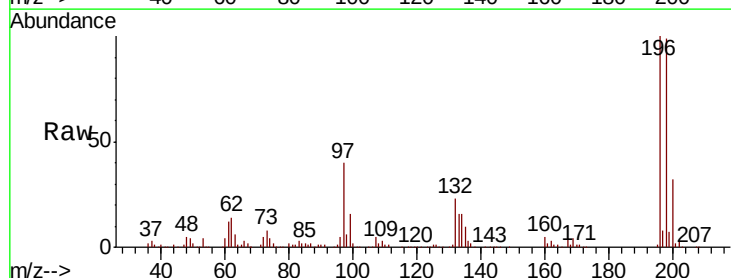
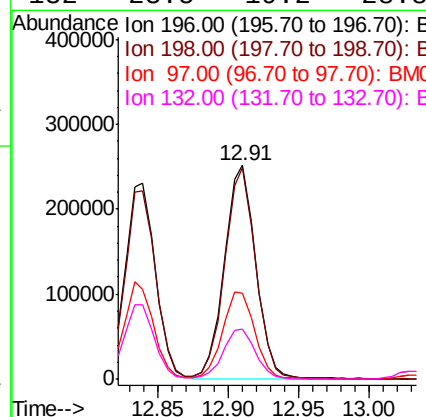
Manual Integrations  
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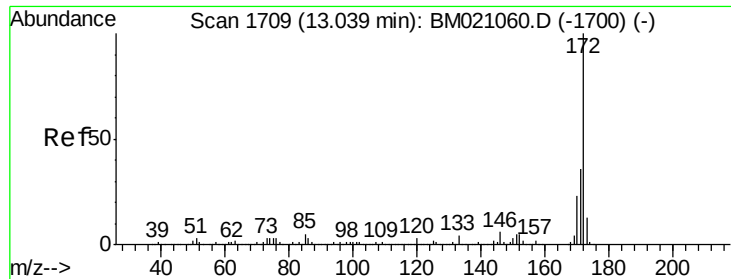
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 6/28/2019 8:25:57 AM



#44  
 2,4,5-Trichlorophenol  
 Concen: 18.383 ng  
 RT: 12.91 min Scan# 1687  
 Delta R.T. -0.01 min  
 Lab File: BM021145.D  
 Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 385470 |       |       |
| 198     | 98.7  | 78.2   | 117.4 |       |
| 97      | 40.3  | 34.1   | 51.1  |       |
| 132     | 23.5  | 19.2   | 28.8  |       |





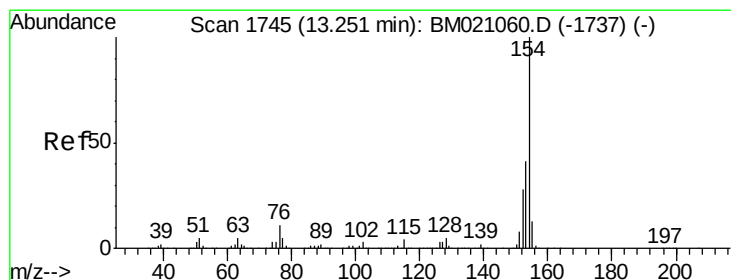
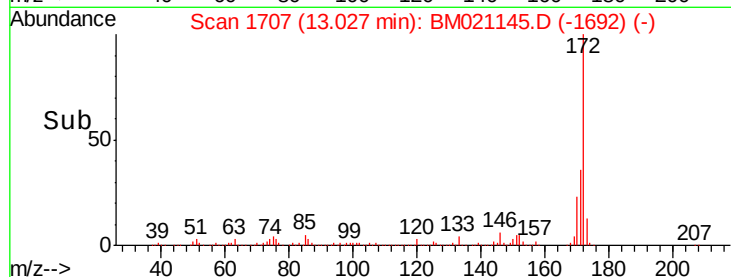
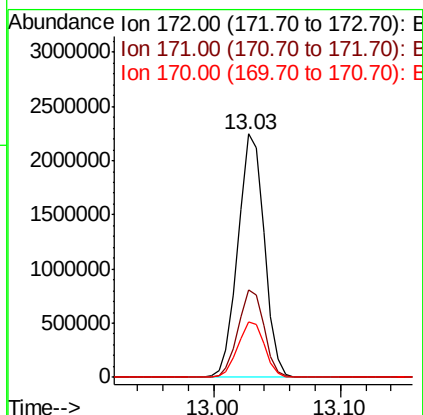
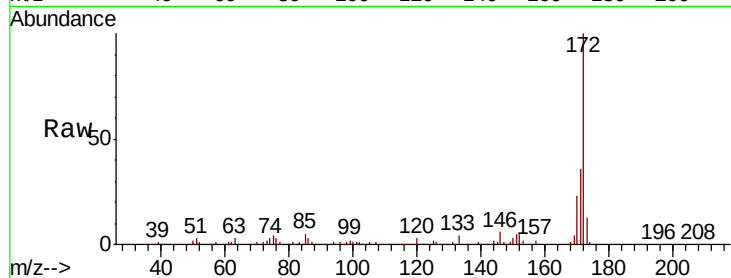
#45  
2-Fluorobiphenyl  
Concen: 48.849 ng  
RT: 13.03 min Scan# 1707  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 28.6  | 43.0  |
| 170     | 23.0  | 18.7  | 28.1  |

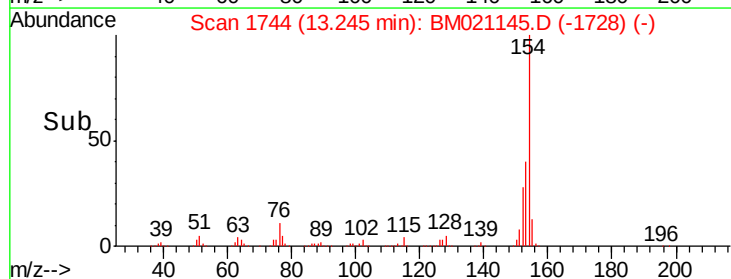
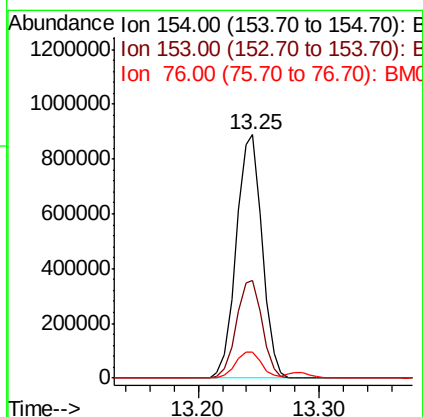
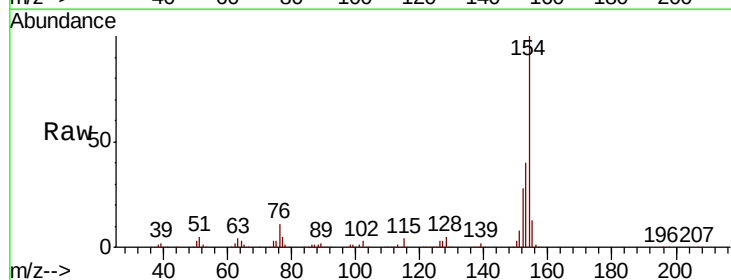
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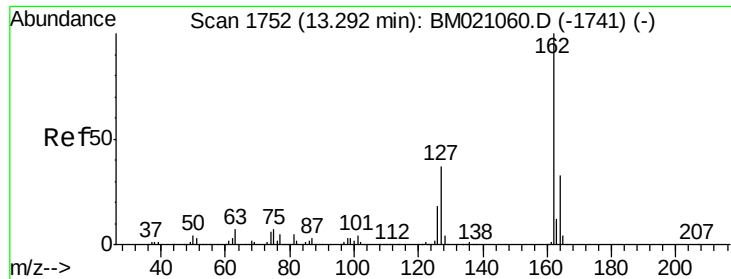


#46  
1,1'-Biphenyl  
Concen: 19.140 ng  
RT: 13.25 min Scan# 1744  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 40.3  | 21.3  | 61.3  |
| 76      | 10.8  | 0.0   | 30.9  |







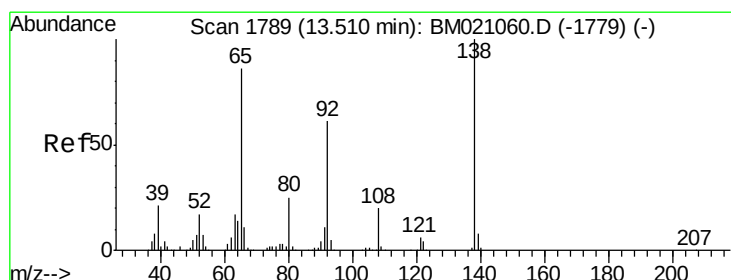
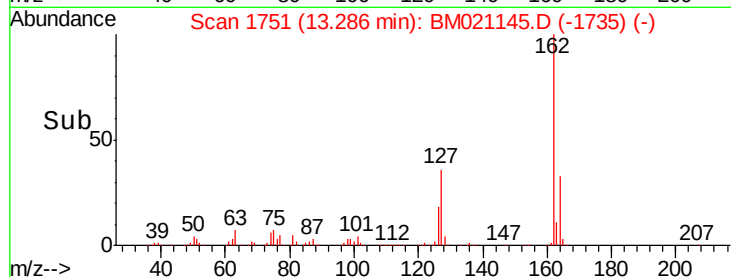
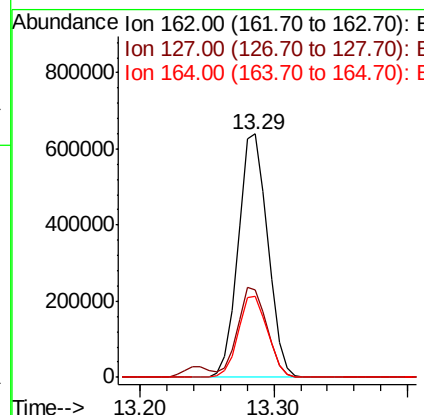
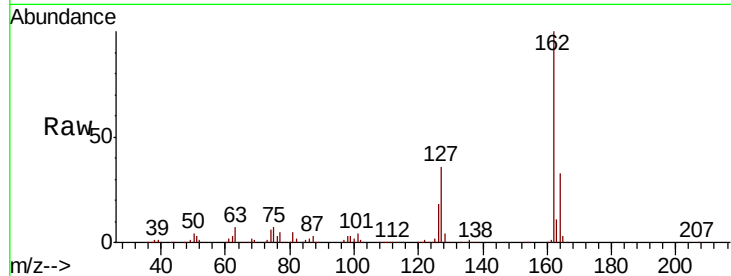
#47  
2-Chloronaphthalene  
Concen: 17.430 ng  
RT: 13.29 min Scan# 1751  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 979561 |       |       |
| 127     | 36.0  |        | 29.4  | 44.2  |
| 164     | 33.3  |        | 26.5  | 39.7  |

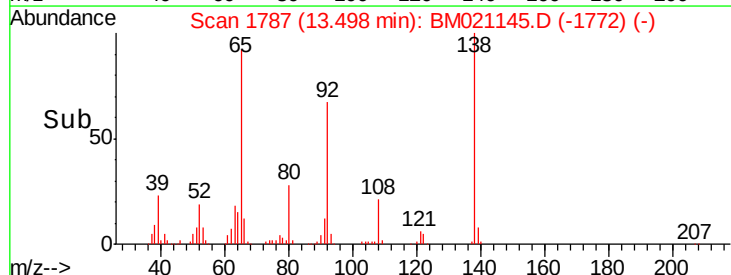
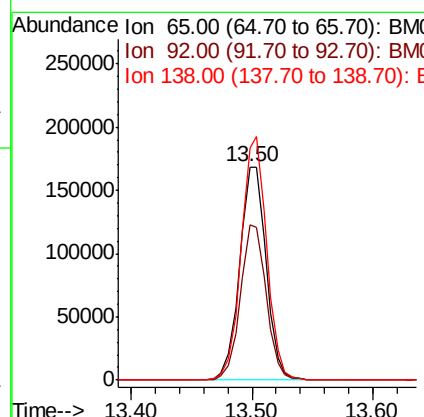
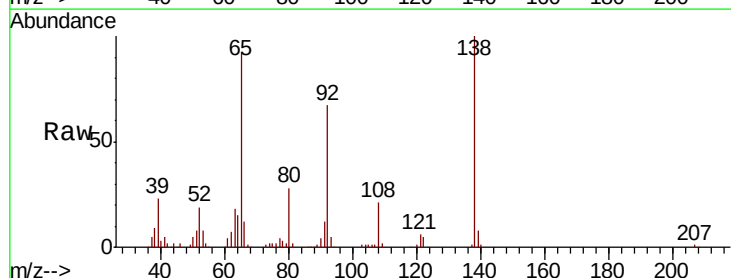
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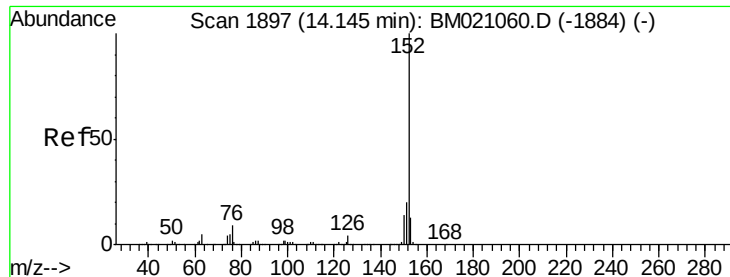
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#48  
2-Nitroaniline  
Concen: 16.814 ng  
RT: 13.50 min Scan# 1787  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 258500 |       |       |
| 92      | 73.0  |        | 56.3  | 84.5  |
| 138     | 108.9 |        | 92.6  | 139.0 |





#49

Acenaphthylene

Concen: 18.436 ng

RT: 14.13 min Scan# 1895

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

ClientSampleId :

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Tot Ion:152 Resp: 1576720

Ion Ratio Lower Upper

152 100

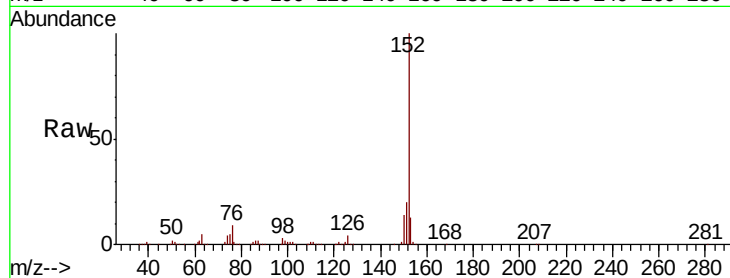
151 19.9 16.1 24.1

153 13.1 10.6 16.0

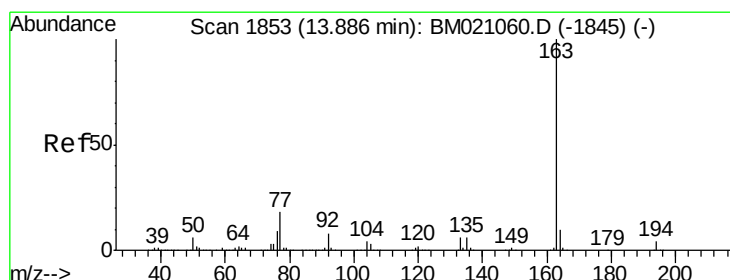
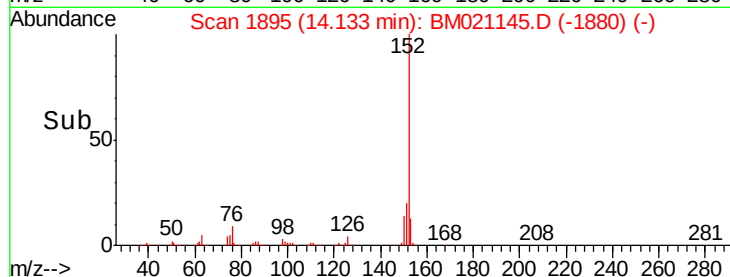
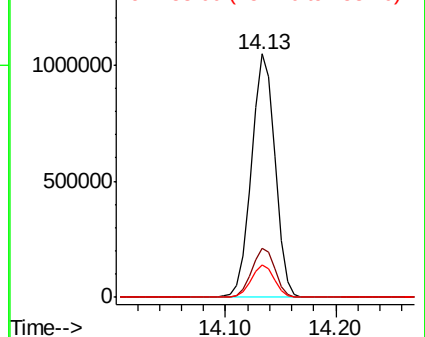
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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 18.080 ng

RT: 13.87 min Scan# 1851

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

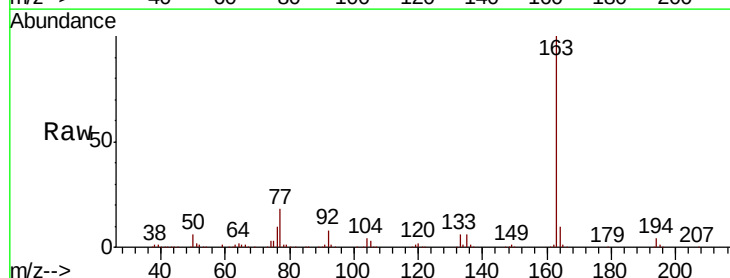
Tgt Ion:163 Resp: 1299616

Ion Ratio Lower Upper

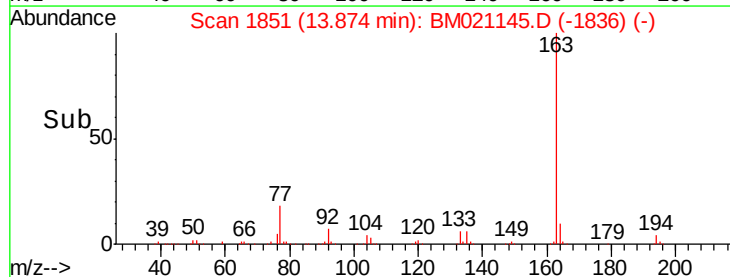
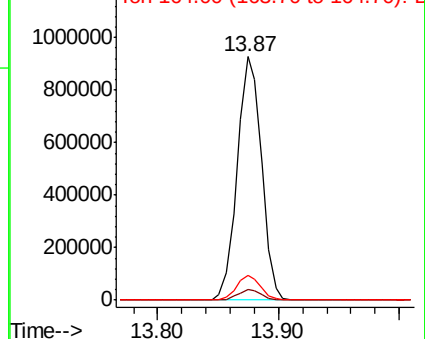
163 100

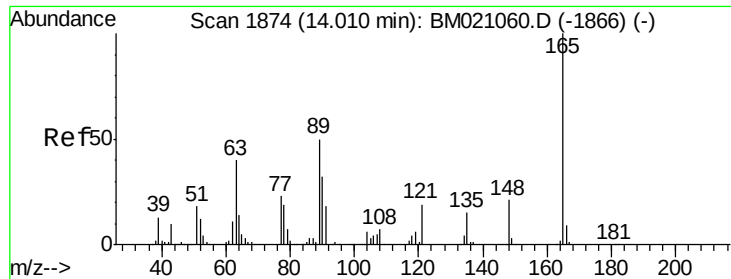
194 4.3 3.4 5.2

164 10.0 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 18.583 ng

RT: 14.00 min Scan# 1872

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

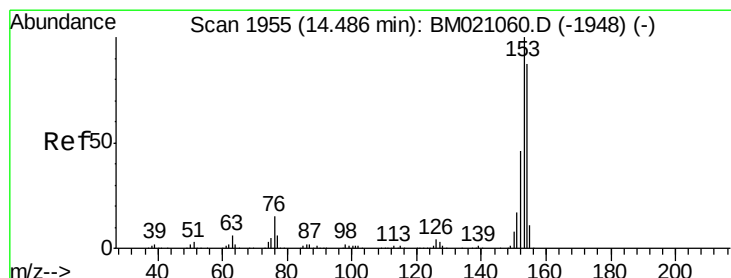
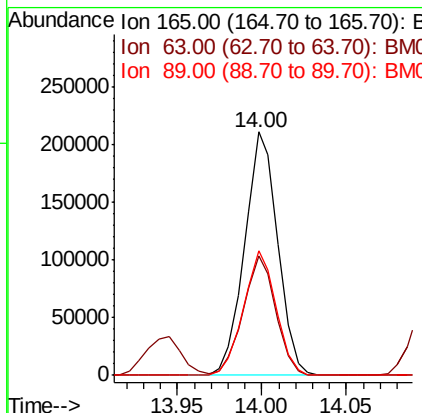
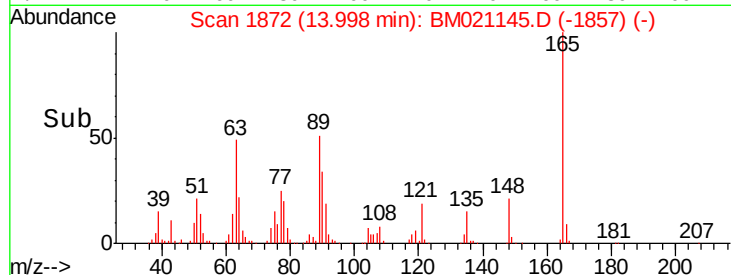
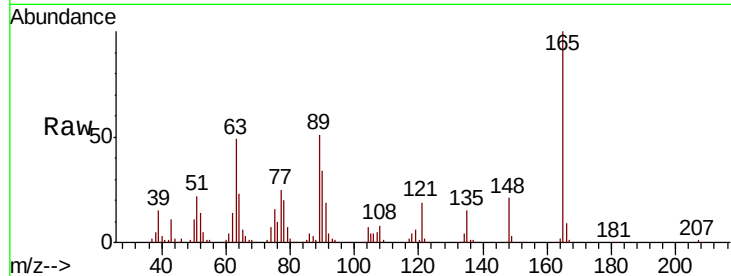
ClientSampleId :

LOQ-SOIL-02-QT2-2019

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 165   | Resp: | 287363 |
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 63        | 48.9  | 37.8  | 56.6   |
| 89        | 51.1  | 39.7  | 59.5   |

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#52

Acenaphthene

Concen: 18.099 ng

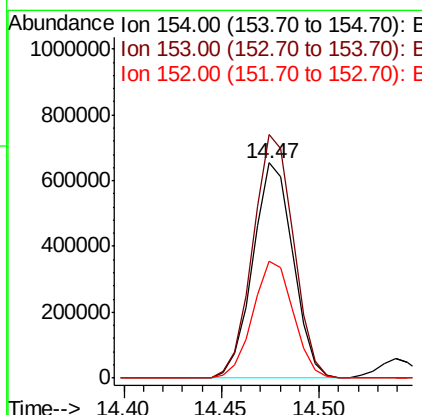
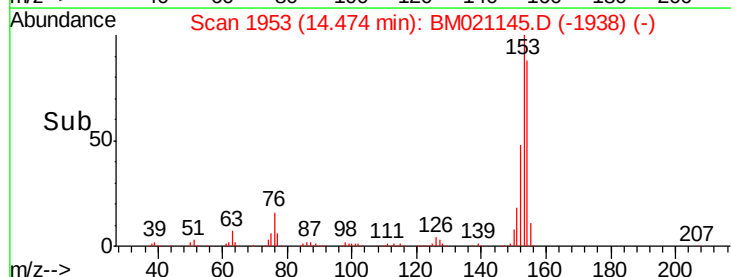
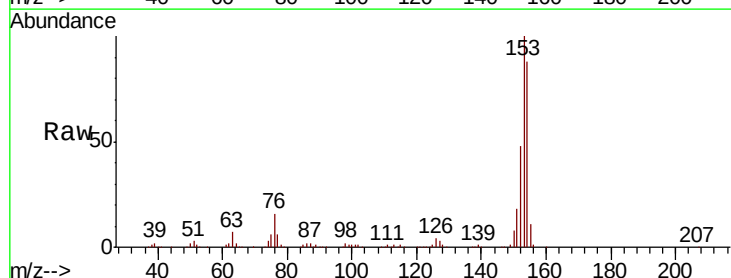
RT: 14.47 min Scan# 1953

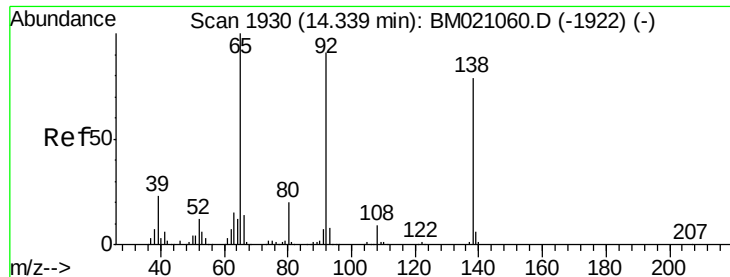
Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 933910 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 113.3 | 91.5  | 137.3  |
| 152       | 54.3  | 42.3  | 63.5   |





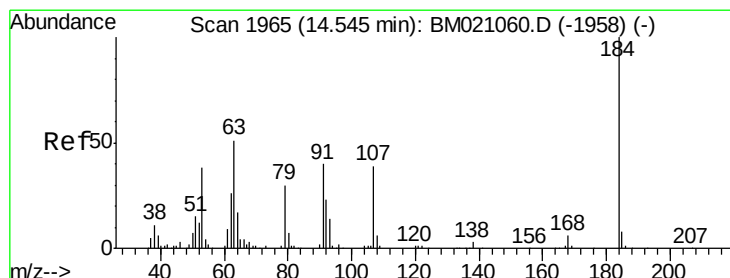
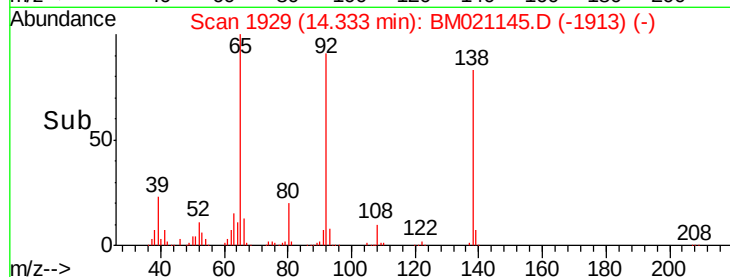
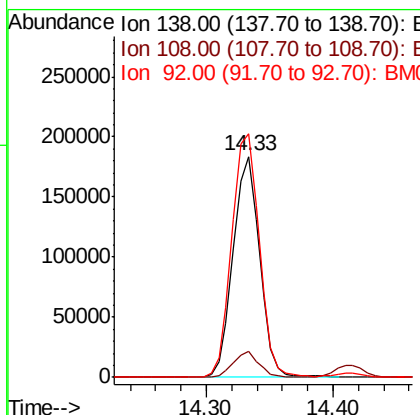
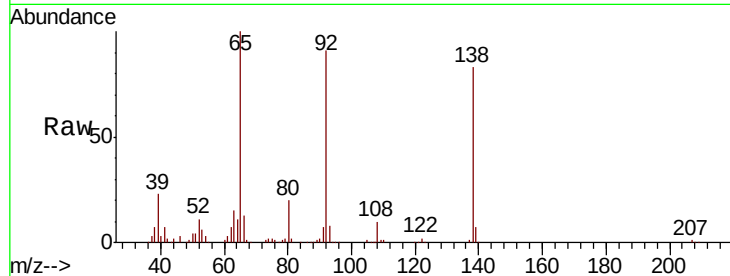
#53  
3-Nitroaniline  
Concen: 16.878 ng  
RT: 14.33 min Scan# 1929  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 108     | 11.6  | 9.0   | 13.4  |
| 92      | 110.2 | 92.2  | 138.2 |

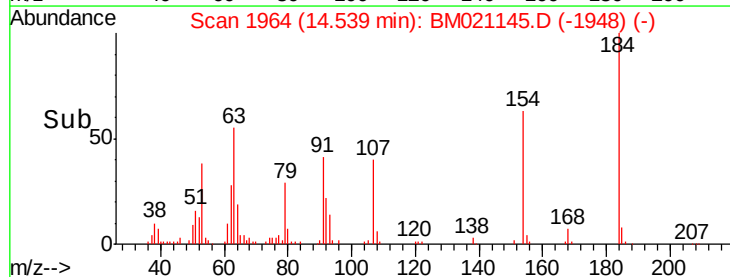
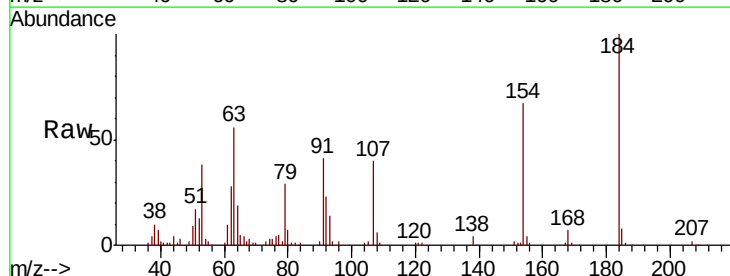
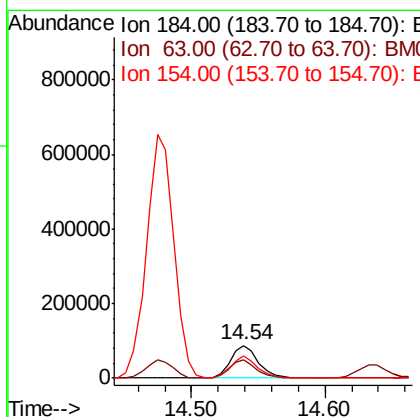
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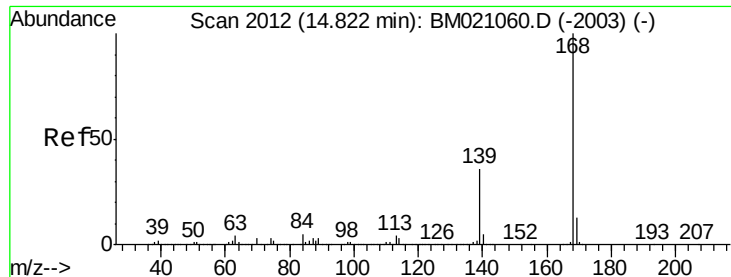
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#54  
2,4-Dinitrophenol  
Concen: 15.186 ng  
RT: 14.54 min Scan# 1964  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 63      | 55.9  | 45.5  | 68.3  |
| 154     | 66.5  | 50.6  | 76.0  |





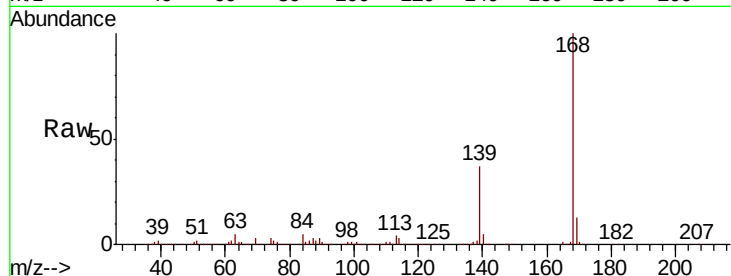
#55  
Dibenzenofuran  
Concen: 18.816 ng  
RT: 14.81 min Scan# 2010  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 36.6  | 28.4  | 42.6  |
| 169     | 13.4  | 10.6  | 16.0  |

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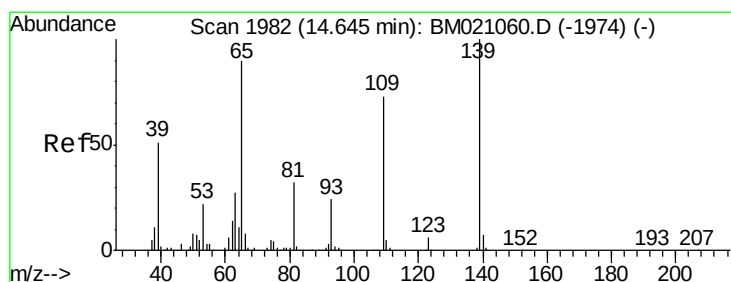
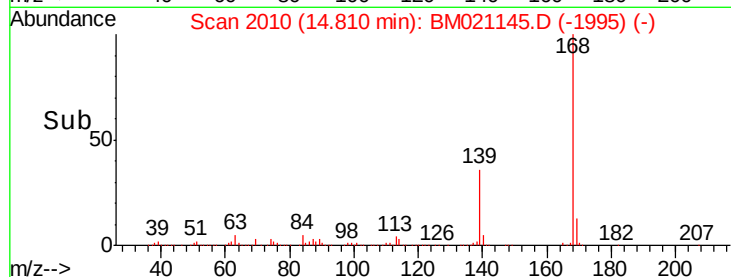
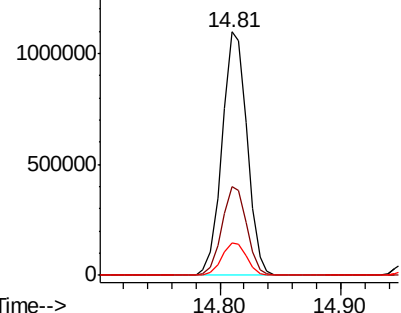


Abundance

Ion 168.00 (167.70 to 168.70): E

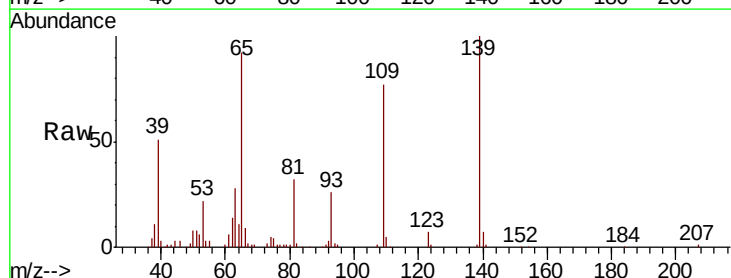
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56  
4-Nitrophenol  
Concen: 16.588 ng  
RT: 14.64 min Scan# 1981  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 76.8  | 53.3  | 93.3  |
| 65      | 92.3  | 70.3  | 110.3 |

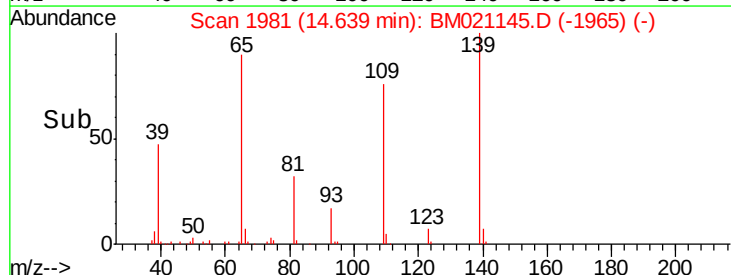
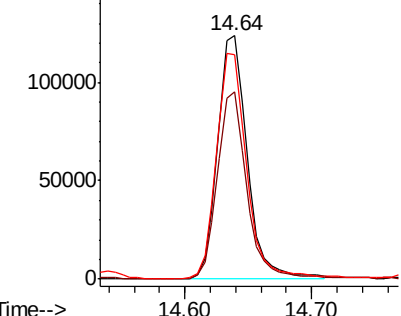


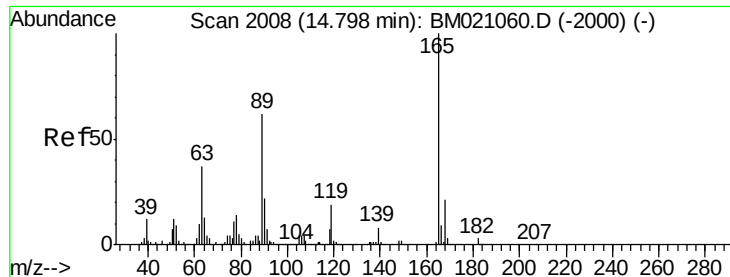
Abundance

Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): E





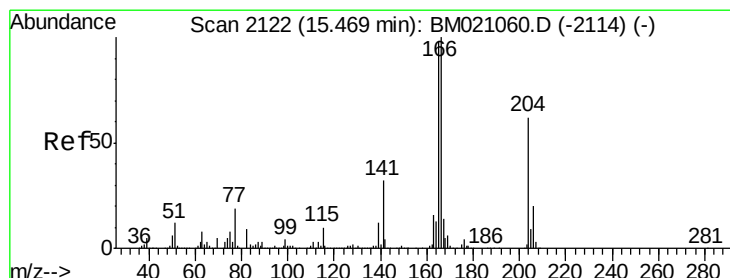
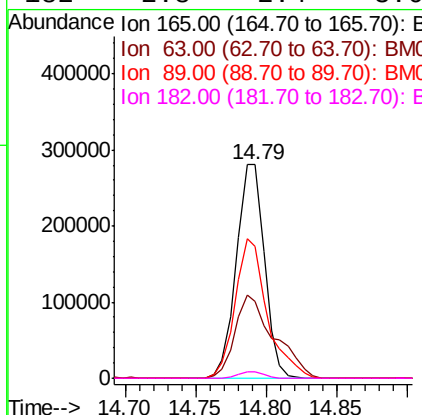
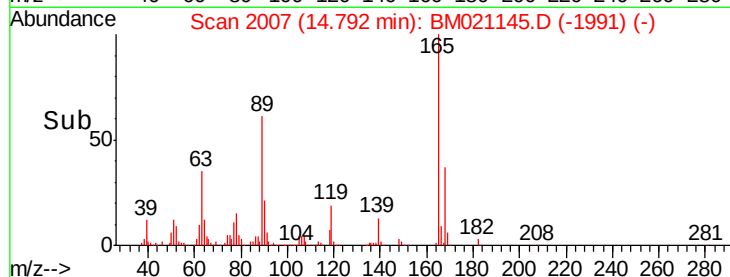
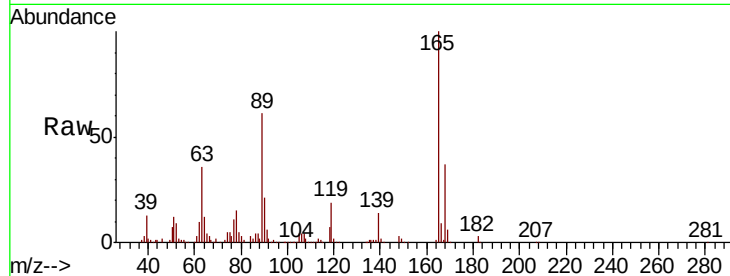
#57  
2,4-Dinitrotoluene  
Concen: 18.307 ng  
RT: 14.79 min Scan# 2007  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 165     | 100  |       | 390916 |       |       |
| 63      | 35.7 |       | 29.6   | 44.4  |       |
| 89      | 61.5 |       | 49.5   | 74.3  |       |
| 182     | 2.8  |       | 2.4    | 3.6   |       |

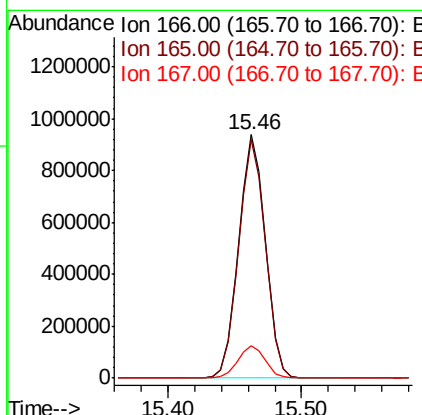
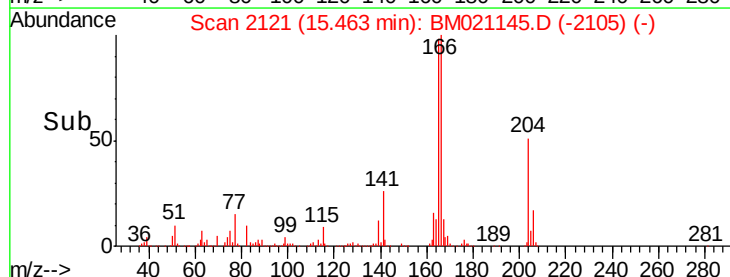
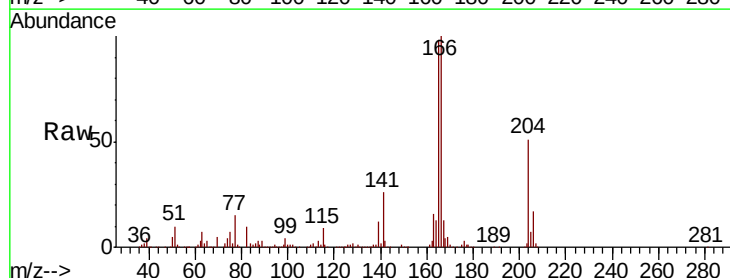
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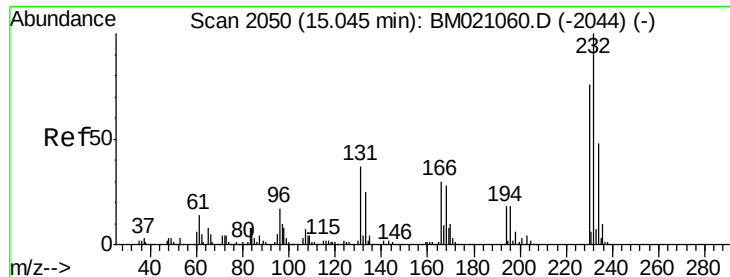
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#58  
Fluorene  
Concen: 18.816 ng  
RT: 15.46 min Scan# 2121  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 166     | 100  |       | 1294105 |       |       |
| 165     | 97.8 |       | 78.6    | 117.8 |       |
| 167     | 13.2 |       | 10.9    | 16.3  |       |





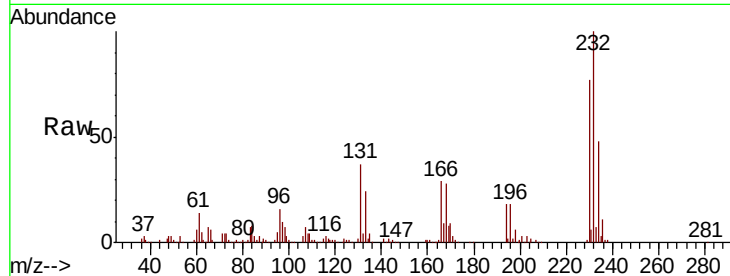
#59  
 2,3,4,6-Tetrachlorophenol  
 Concen: 19.139 ng  
 RT: 15.04 min Scan# 2049  
 Delta R.T. -0.01 min  
 Lab File: BM021145.D  
 Acq: 24 Jun 2019 13:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2019

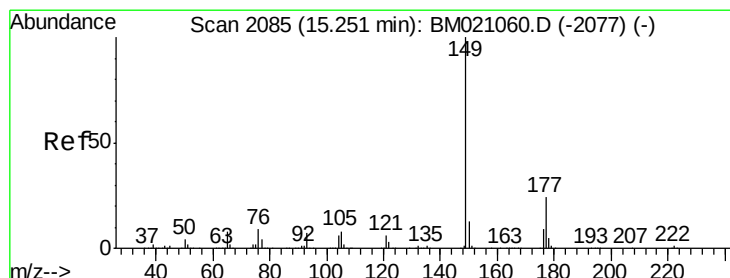
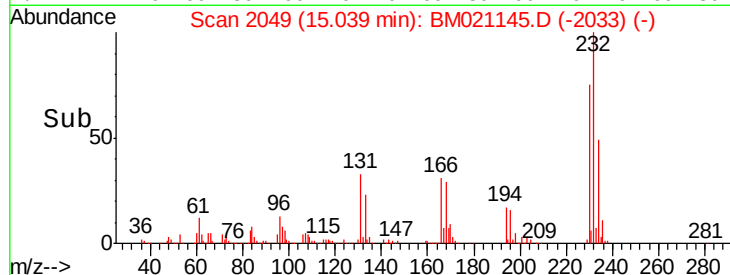
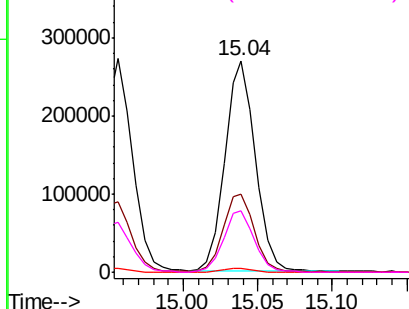
| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 232     | 100  |       | 383442 |       |       |
| 131     | 38.1 | 30.6  | 46.0   |       |       |
| 130     | 2.0  | 1.7   | 2.5    |       |       |
| 166     | 29.1 | 23.4  | 35.0   |       |       |

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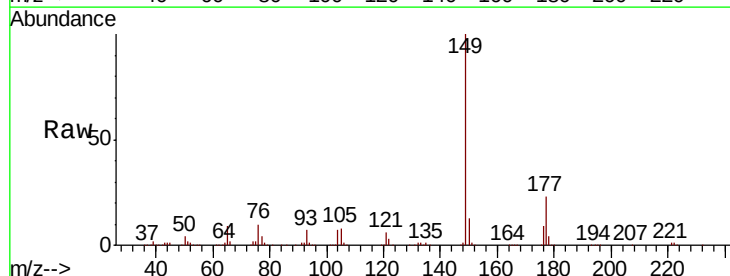


Abundance Ion 232.00 (231.70 to 232.70): E  
 Ion 131.00 (130.70 to 131.70): E  
 Ion 130.00 (129.70 to 130.70): E  
 Ion 166.00 (165.70 to 166.70): E

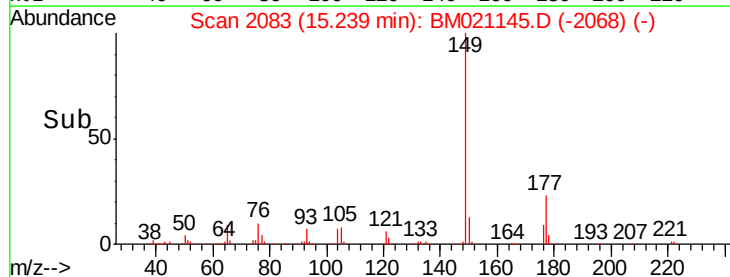
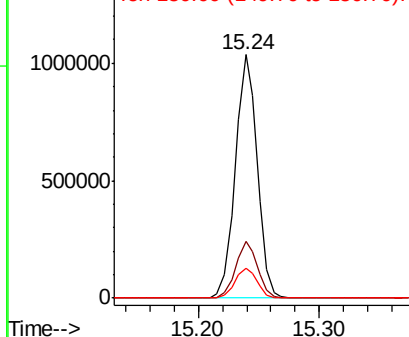


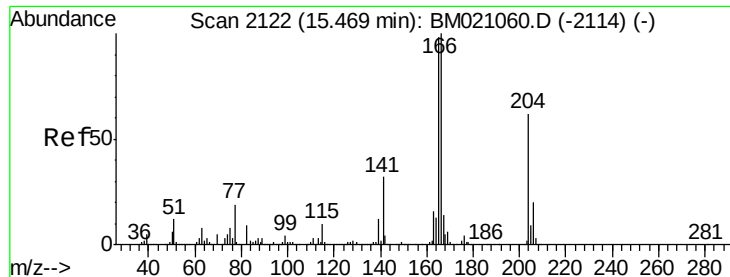
#60  
 Diethylphthalate  
 Concen: 18.433 ng  
 RT: 15.24 min Scan# 2083  
 Delta R.T. -0.01 min  
 Lab File: BM021145.D  
 Acq: 24 Jun 2019 13:03

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 149     | 100  |       | 1304969 |       |       |
| 177     | 23.4 | 19.1  | 28.7    |       |       |
| 150     | 12.5 | 10.1  | 15.1    |       |       |



Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 177.00 (176.70 to 177.70): E  
 Ion 150.00 (149.70 to 150.70): E





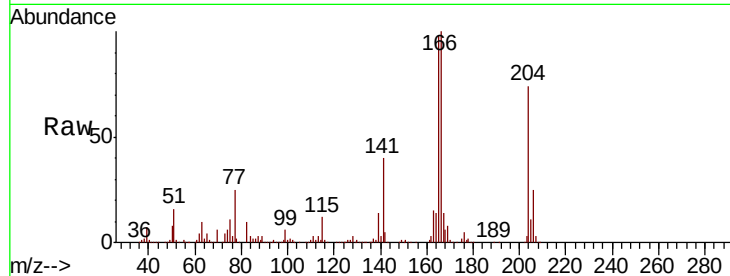
#61  
4-Chlorophenyl-phenylether  
Concen: 18.279 ng  
RT: 15.46 min Scan# 2120  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 204     | 100   | 710233 |       |       |
| 206     | 33.0  |        | 26.1  | 39.1  |
| 141     | 53.9  |        | 40.7  | 61.1  |

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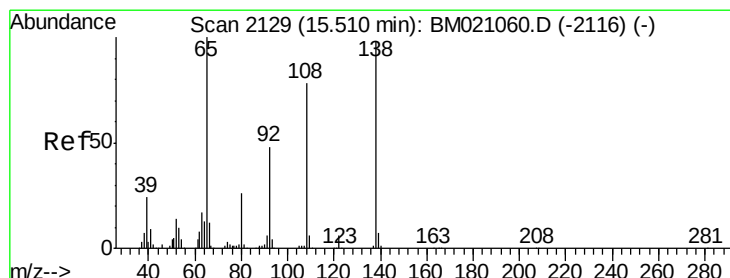
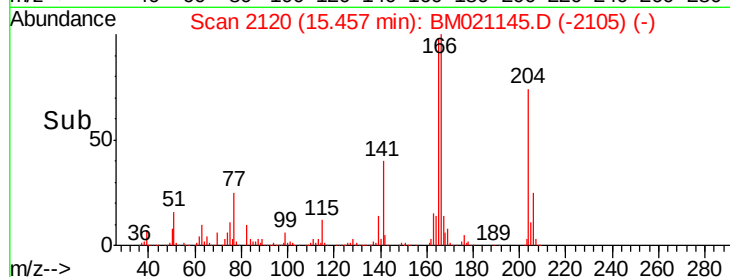
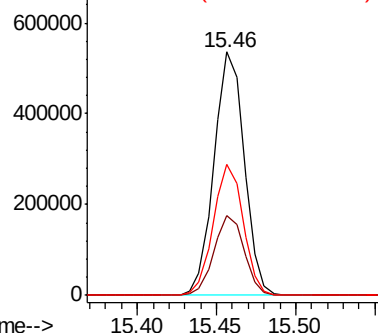


Abundance

Ion 204.00 (203.70 to 204.70): E

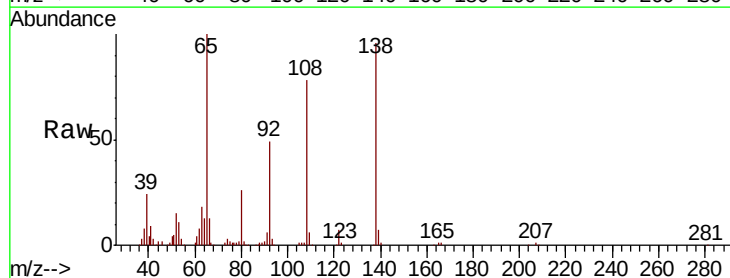
Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E



#62  
4-Nitroaniline  
Concen: 16.808 ng  
RT: 15.50 min Scan# 2127  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 138     | 100   | 278112 |       |       |
| 92      | 51.1  |        | 29.1  | 69.1  |
| 108     | 80.8  |        | 59.2  | 99.2  |

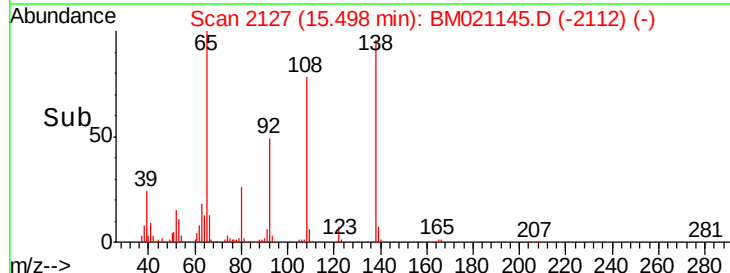
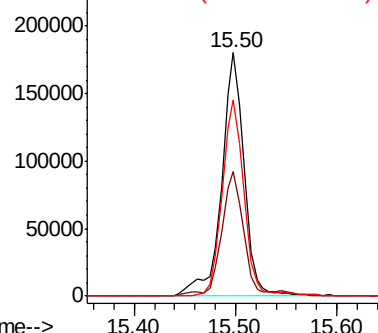


Abundance

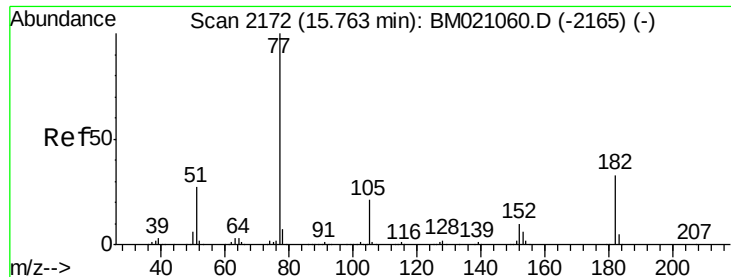
Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BM

Ion 108.00 (107.70 to 108.70): E







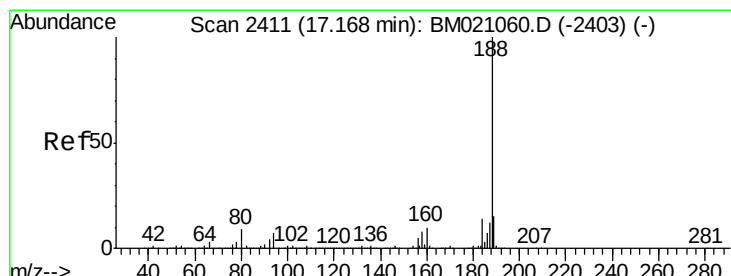
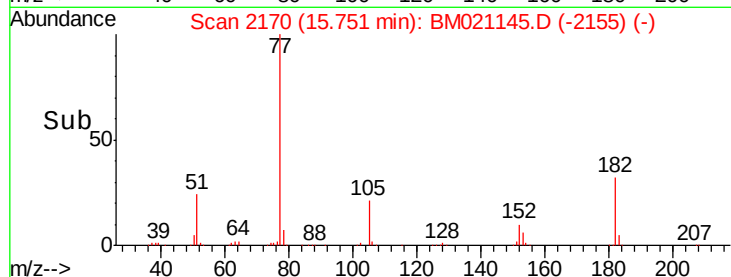
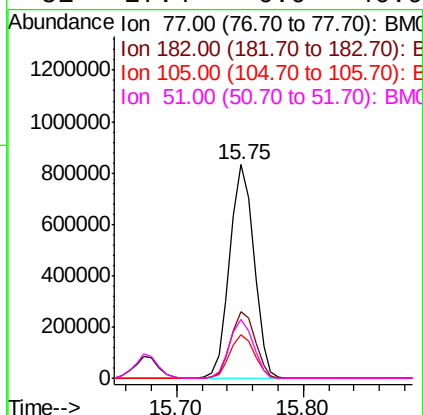
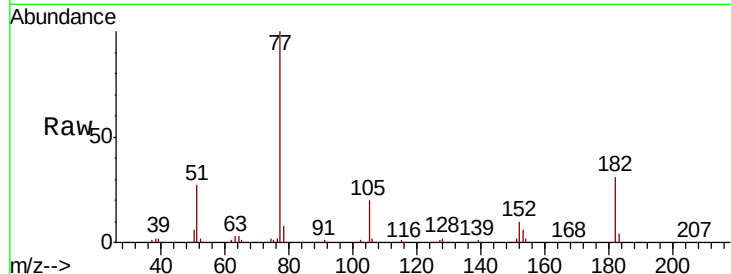
#63  
Azobenzene  
Concen: 18.908 ng  
RT: 15.75 min Scan# 2170  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 30.9  | 12.6  | 52.6  |
| 105     | 20.1  | 1.1   | 41.1  |
| 51      | 27.4  | 6.9   | 46.9  |

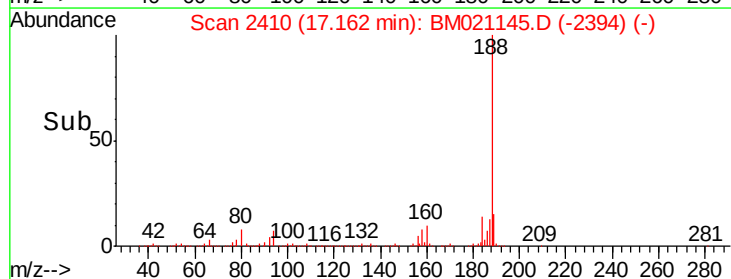
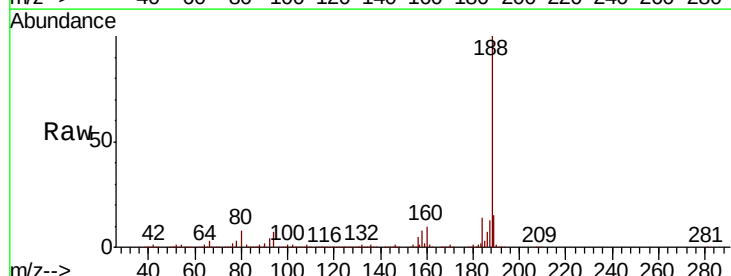
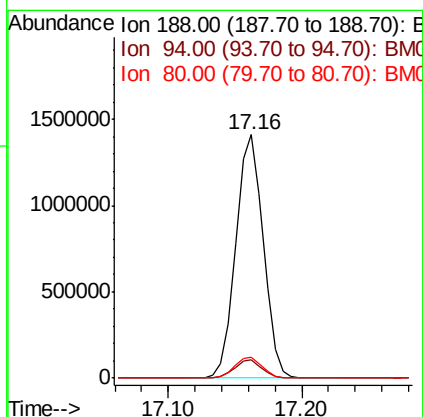
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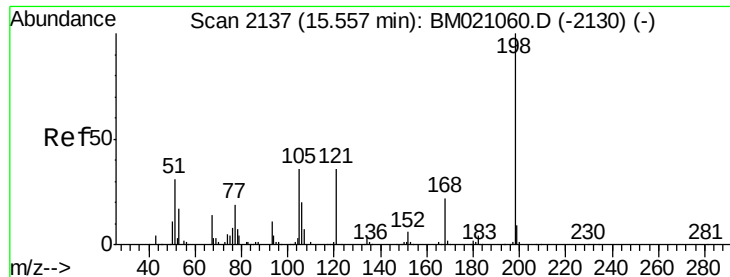
mohammad  
6/28/2019 8:25:57 AM



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.16 min Scan# 2410  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.5   | 5.8   | 8.8   |
| 80      | 8.4   | 6.9   | 10.3  |





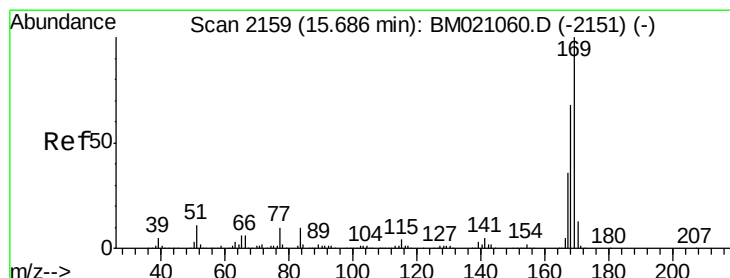
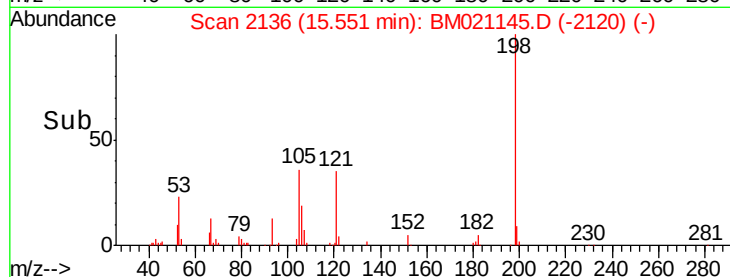
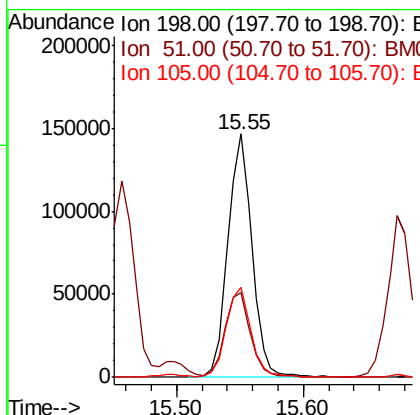
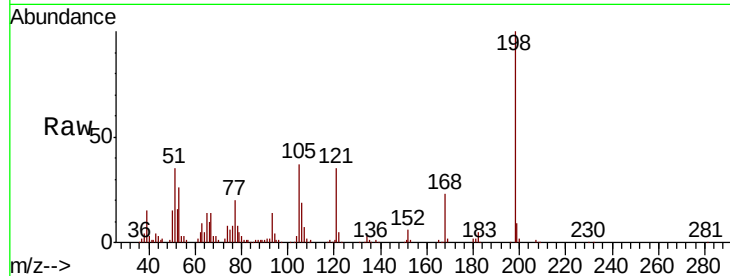
#65  
4,6-Dinitro-2-methylphenol  
Concen: 15.471 ng  
RT: 15.55 min Scan# 2136  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 198     | 100   | 191986 |       |       |
| 51      | 34.7  |        | 15.3  | 55.3  |
| 105     | 36.7  |        | 16.8  | 56.8  |

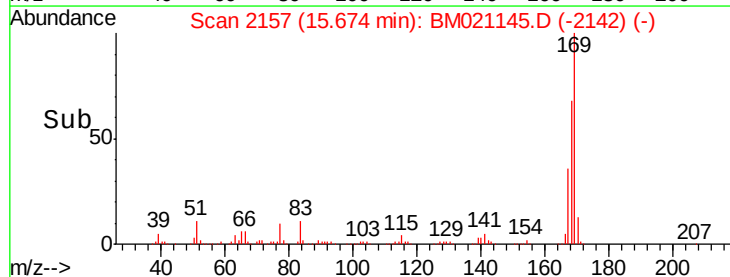
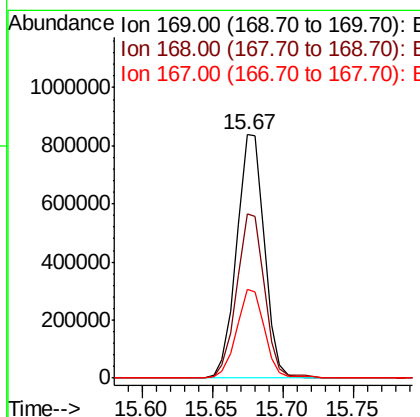
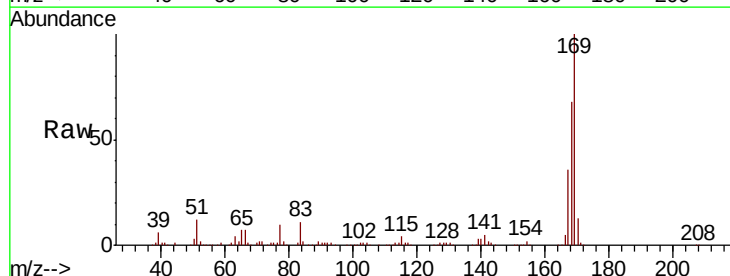
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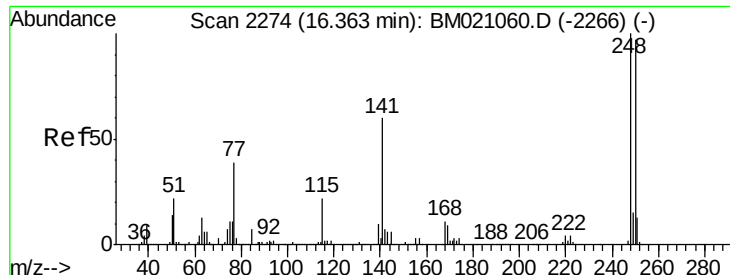
mohammad  
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#66  
n-Nitrosodiphenylamine  
Concen: 18.051 ng  
RT: 15.67 min Scan# 2157  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 169     | 100   | 1145065 |       |       |
| 168     | 67.7  |         | 54.5  | 81.7  |
| 167     | 36.4  |         | 29.0  | 43.6  |





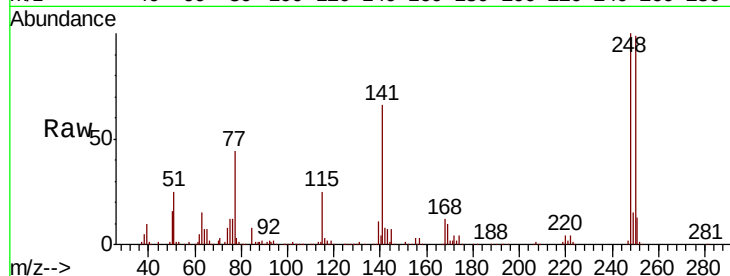
#67  
4-Bromophenyl-phenylether  
Concen: 17.141 ng  
RT: 16.35 min Scan# 2272  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

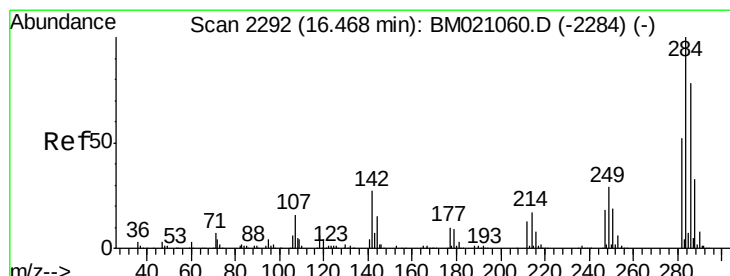
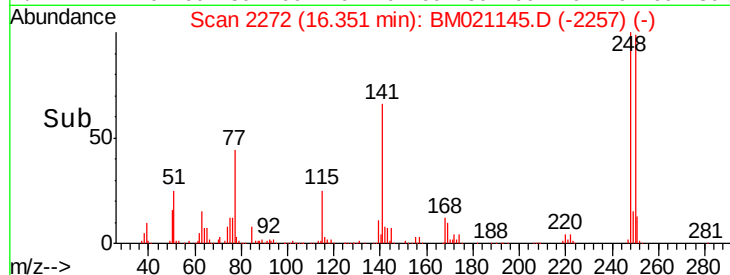
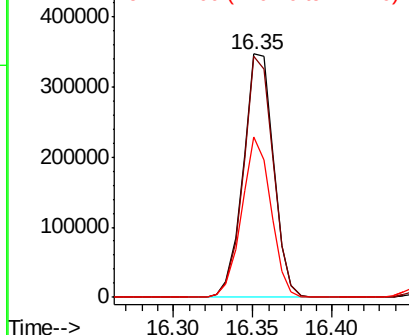
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 98.8  | 77.5  | 116.3 |
| 141     | 65.6  | 47.8  | 71.6  |

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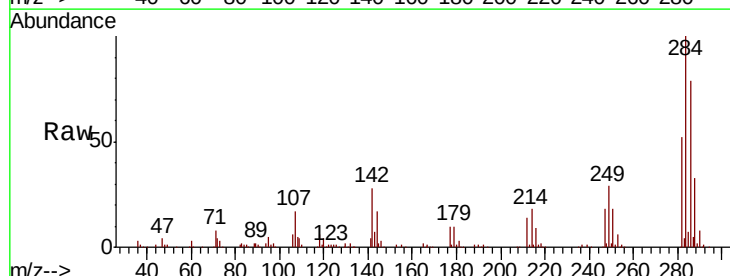


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

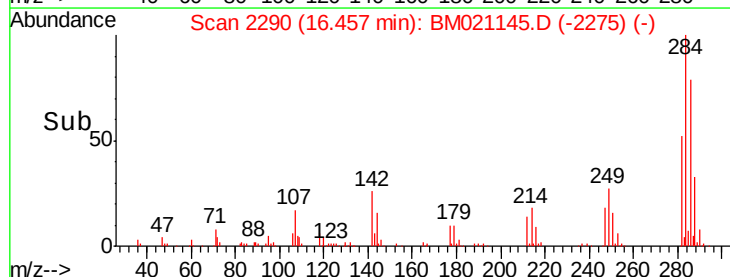
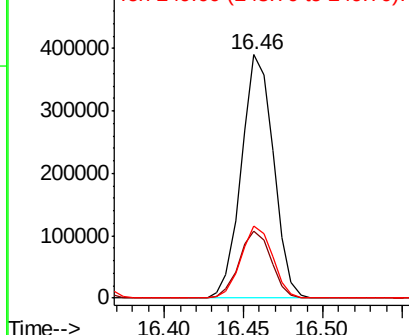


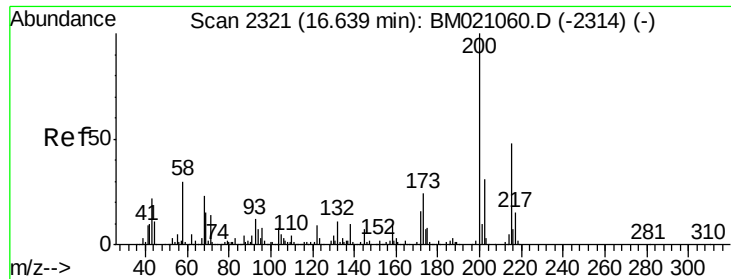
#68  
Hexachlorobenzene  
Concen: 17.115 ng  
RT: 16.46 min Scan# 2290  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 27.5  | 21.2  | 31.8  |
| 249     | 29.4  | 23.4  | 35.0  |



Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E





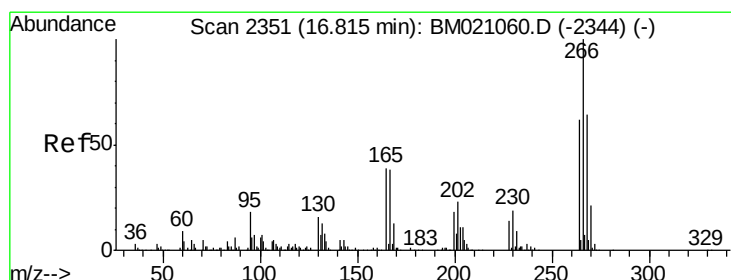
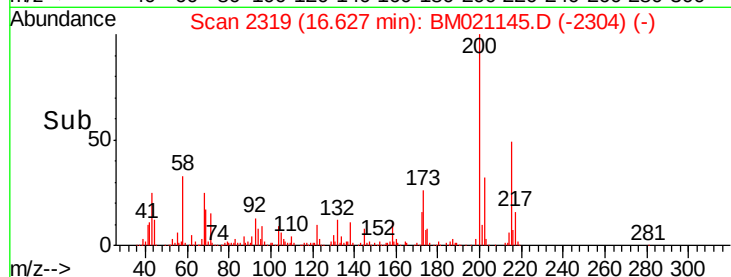
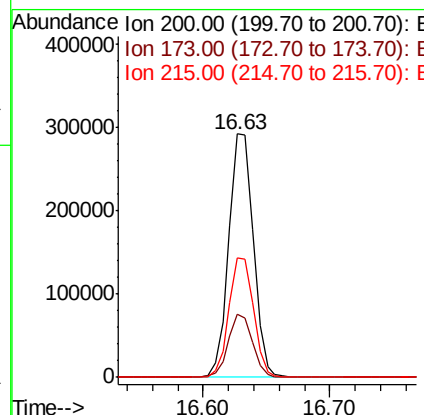
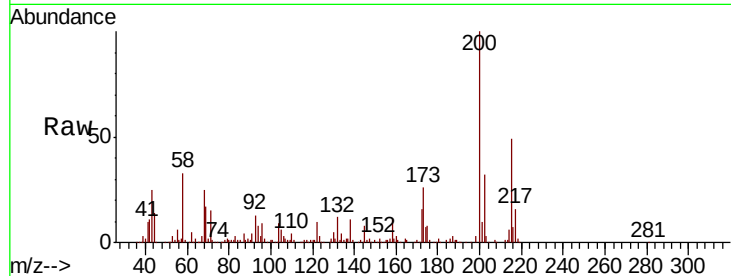
#69  
Atrazine  
Concen: 19.032 ng  
RT: 16.63 min Scan# 2319  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 200     | 100   | 392609 |       |       |
| 173     | 26.1  | 4.3    | 44.3  |       |
| 215     | 49.3  | 28.2   | 68.2  |       |

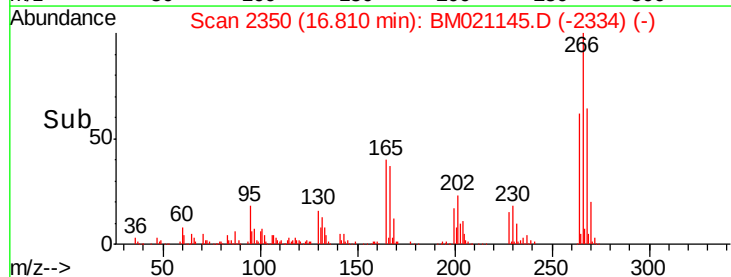
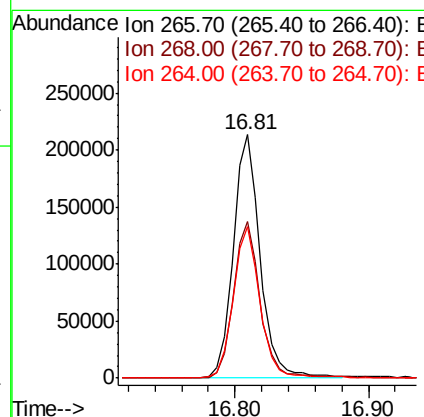
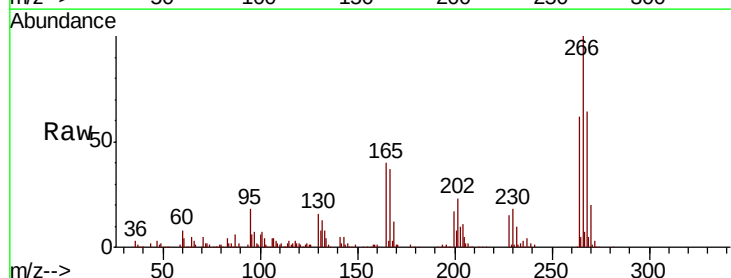
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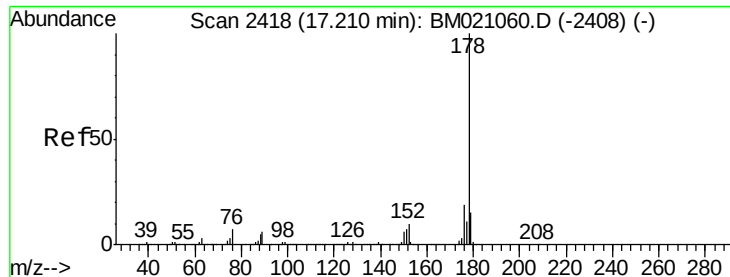
mohammad  
6/28/2019 8:25:57 AM



#70  
Pentachlorophenol  
Concen: 17.449 ng  
RT: 16.81 min Scan# 2350  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 266     | 100   | 300908 |       |       |
| 268     | 64.1  | 51.0   | 76.4  |       |
| 264     | 62.0  | 49.9   | 74.9  |       |





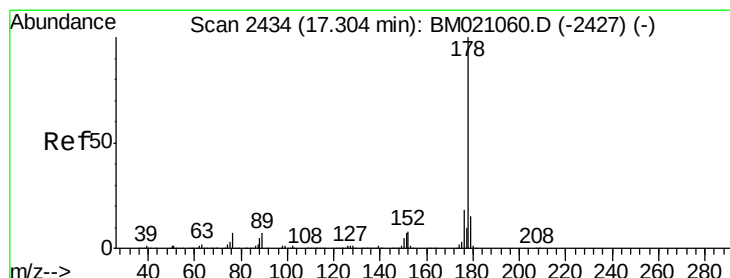
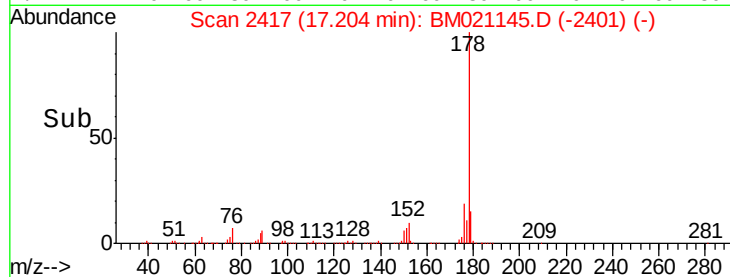
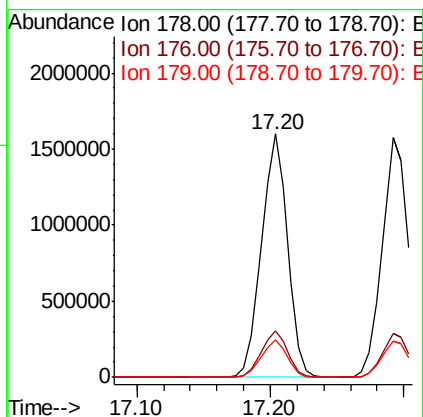
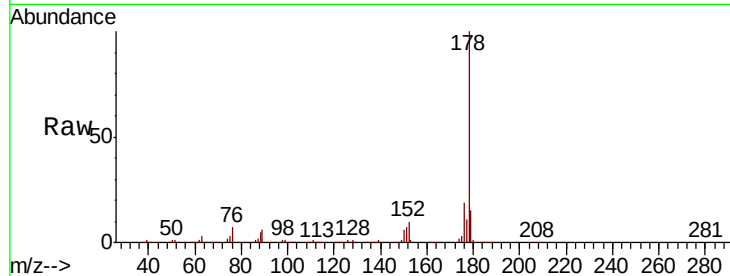
#71  
Phenanthrene  
Concen: 18.501 ng  
RT: 17.20 min Scan# 2417  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 15.2  | 22.8  |
| 179     | 15.2  | 12.2  | 18.4  |

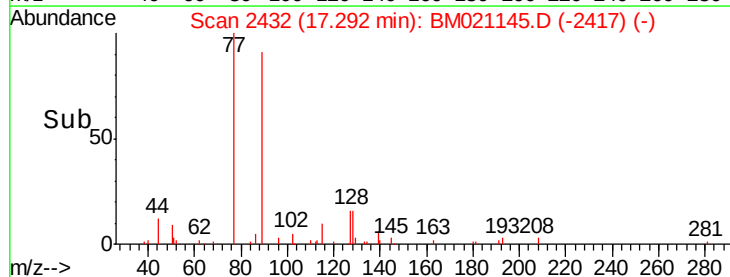
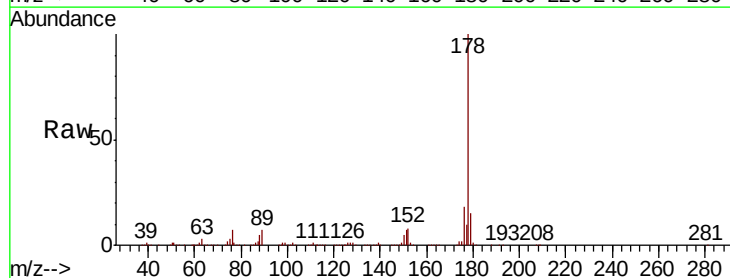
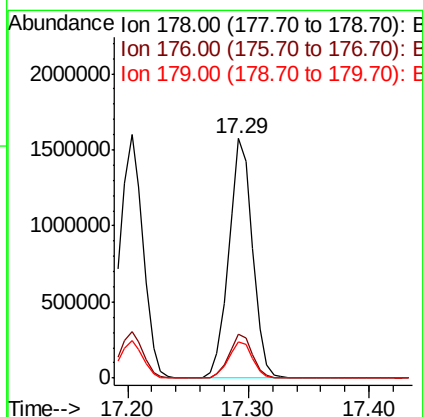
Manual Integrations  
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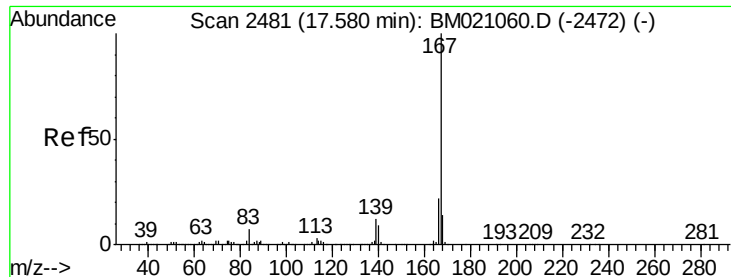
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#72  
Anthracene  
Concen: 18.641 ng  
RT: 17.29 min Scan# 2432  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.2  | 14.7  | 22.1  |
| 179     | 15.3  | 12.2  | 18.2  |





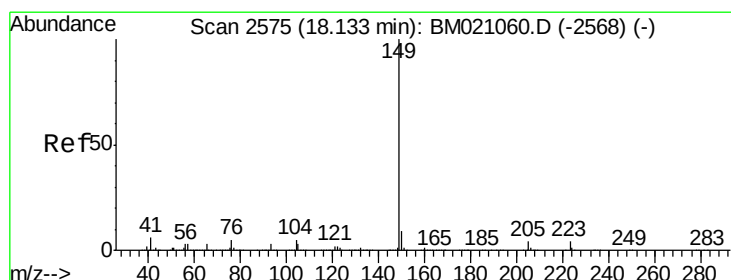
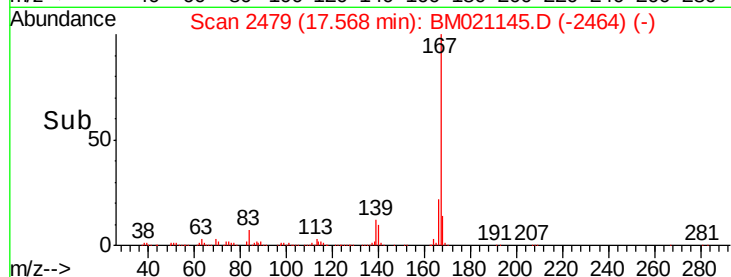
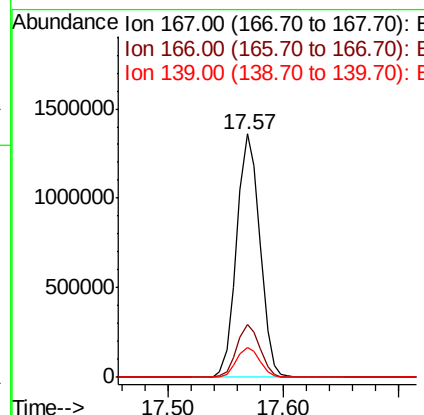
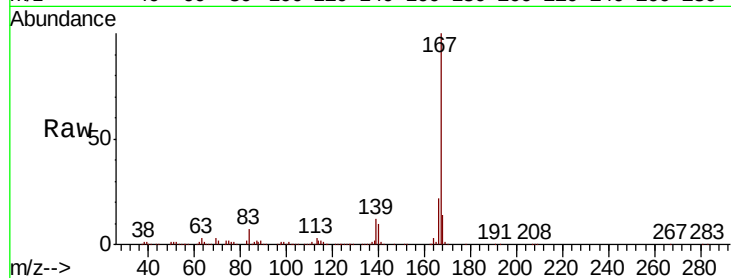
#73  
 Carbazole  
 Concen: 18.725 ng  
 RT: 17.57 min Scan# 2479  
 Delta R.T. -0.01 min  
 Lab File: BM021145.D  
 Acq: 24 Jun 2019 13:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.8  | 17.4  | 26.2  |
| 139     | 12.4  | 9.7   | 14.5  |

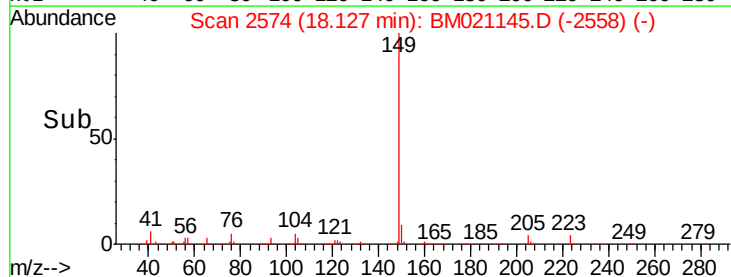
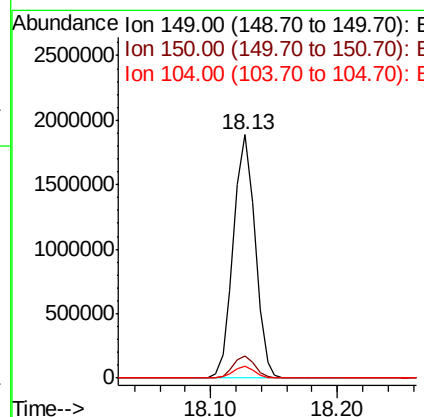
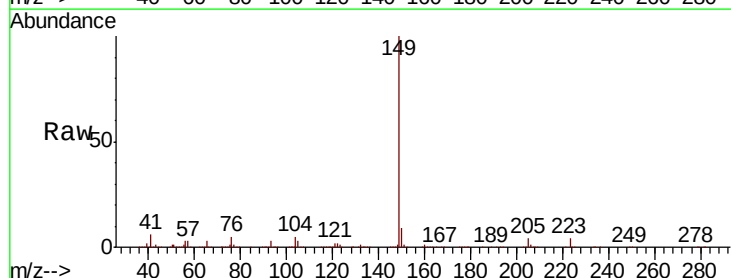
Manual Integrations  
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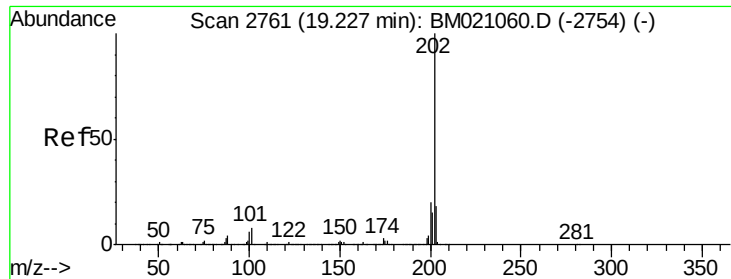
mohammad  
 6/28/2019 8:25:57 AM



#74  
 Di-n-butylphthalate  
 Concen: 17.998 ng  
 RT: 18.13 min Scan# 2574  
 Delta R.T. -0.01 min  
 Lab File: BM021145.D  
 Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.2   | 7.4   | 11.0  |
| 104     | 4.8   | 3.8   | 5.8   |





#75

Fluoranthene

Concen: 19.254 ng

RT: 19.22 min Scan# 2760

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:202 Resp: 2578873

Ion Ratio Lower Upper

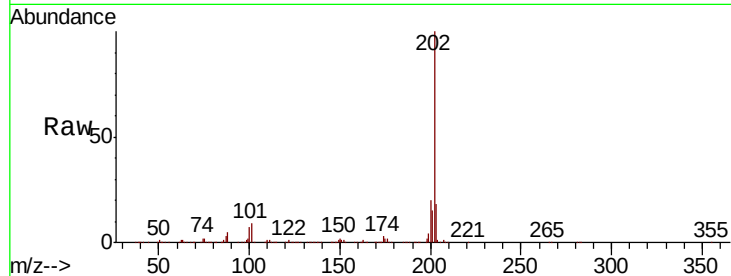
202 100

101 8.7 0.0 28.2

203 17.5 0.0 37.6

Manual Integrations  
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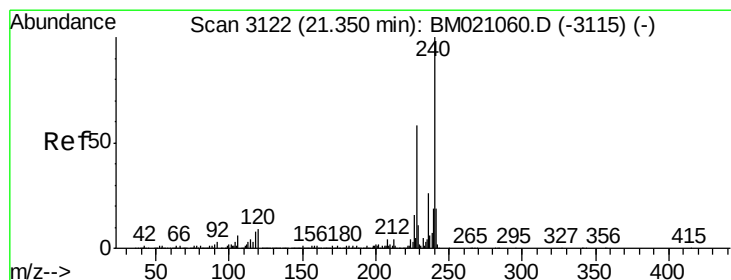
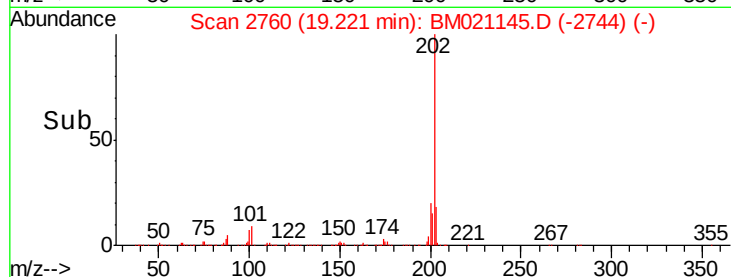
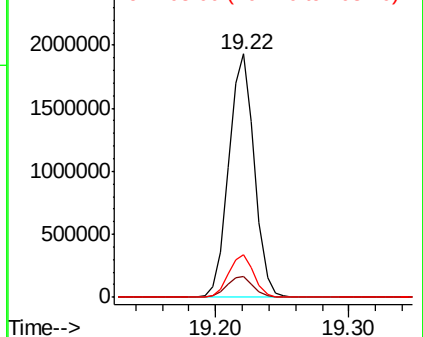


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.35 min Scan# 3122

Delta R.T. -0.00 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

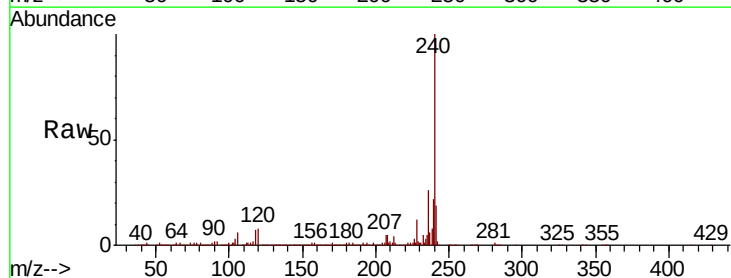
Tgt Ion:240 Resp: 1993232

Ion Ratio Lower Upper

240 100

120 7.9 6.9 10.3

236 25.7 20.4 30.6

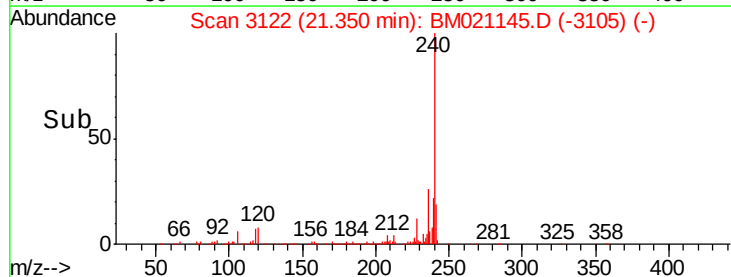
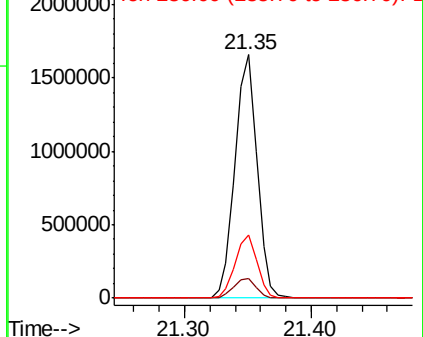


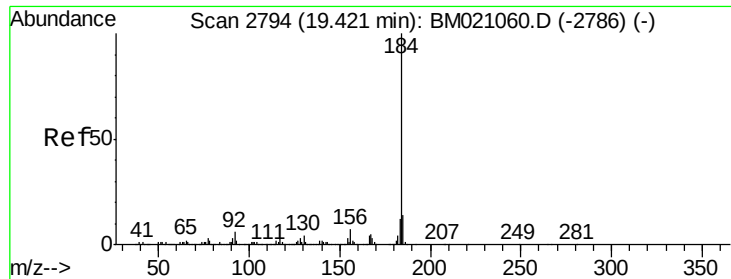
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 12.141 ng

RT: 19.42 min Scan# 2793

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

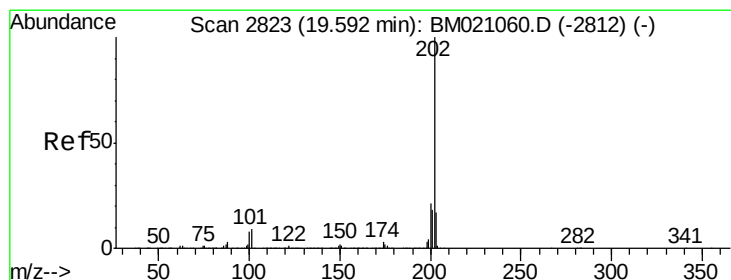
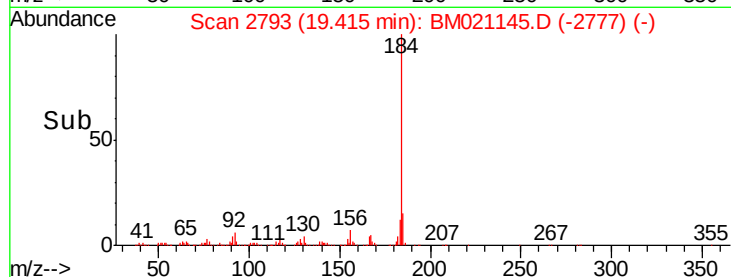
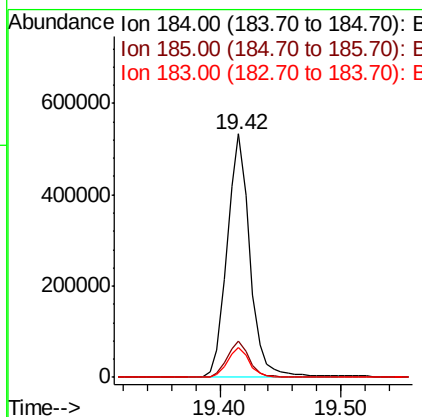
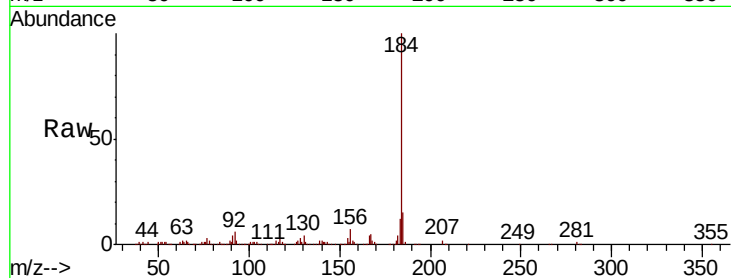
ClientSampleId :

LOQ-SOIL-02-QT2-2019

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 184   | Resp: | 702710 |
| Ion Ratio | Lower | Upper |        |
| 184       | 100   |       |        |
| 185       | 14.8  | 11.4  | 17.2   |
| 183       | 12.1  | 9.6   | 14.4   |

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#78

Pyrene

Concen: 18.414 ng

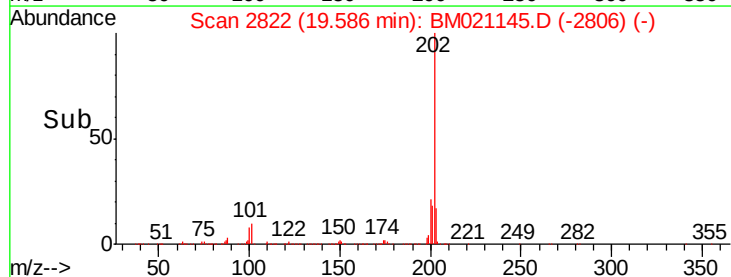
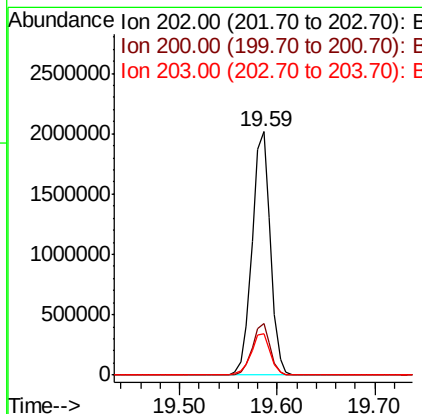
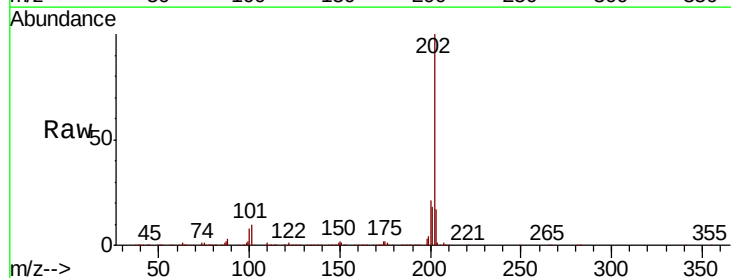
RT: 19.59 min Scan# 2822

Delta R.T. -0.01 min

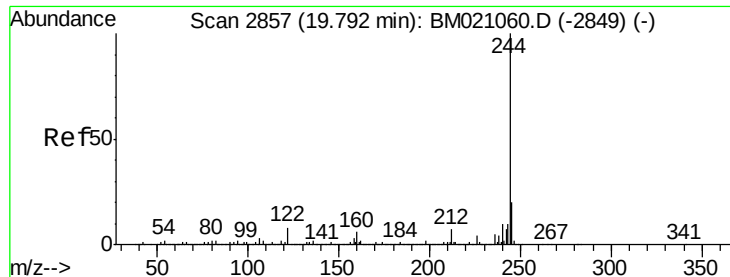
Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 2661864 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 200       | 21.1  | 17.0  | 25.4    |
| 203       | 17.2  | 14.0  | 21.0    |







#79

Terphenyl-d14

Concen: 56.007 ng

RT: 19.79 min Scan# 2857

Delta R.T. -0.00 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:244 Resp: 5977104

Ion Ratio Lower Upper

244 100

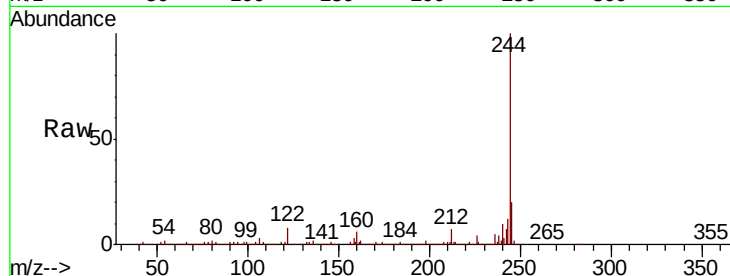
212 6.5 5.3 7.9

122 7.5 6.6 9.8

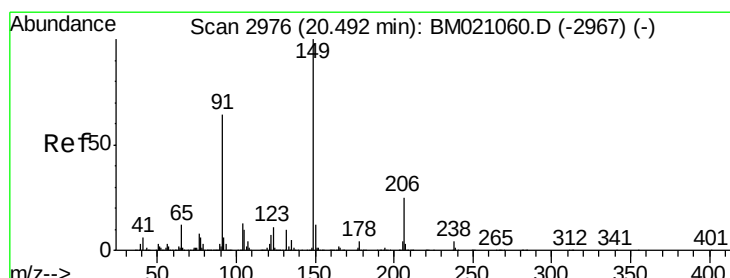
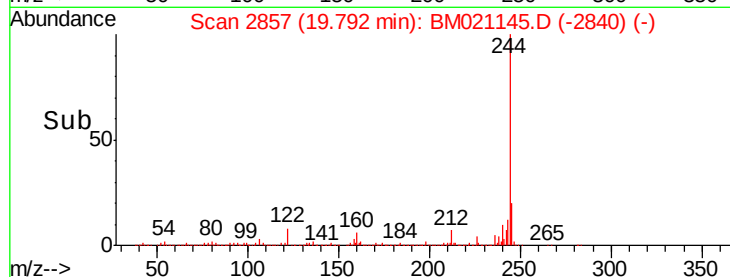
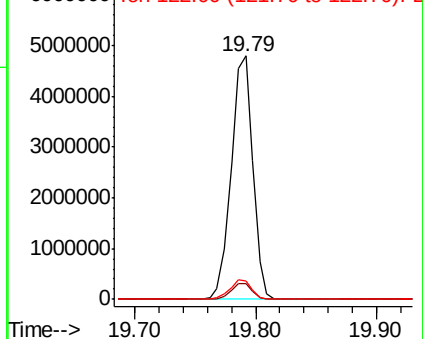
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Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#80

Butylbenzylphthalate

Concen: 17.561 ng

RT: 20.49 min Scan# 2975

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

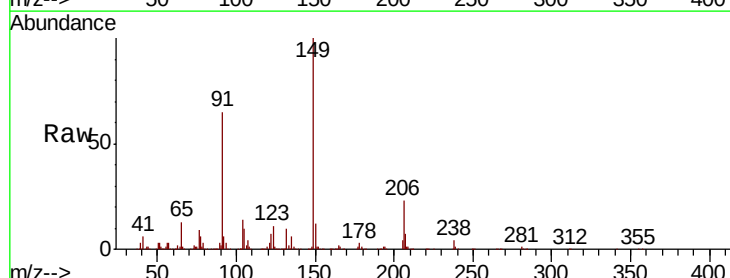
Tgt Ion:149 Resp: 1011846

Ion Ratio Lower Upper

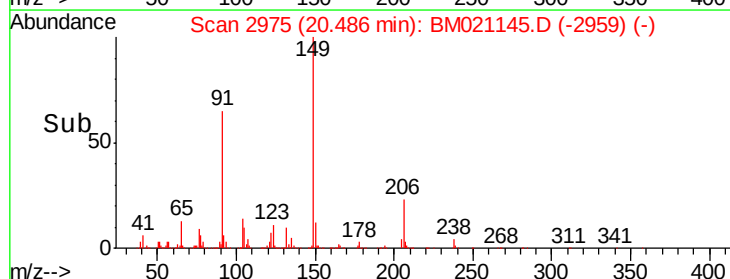
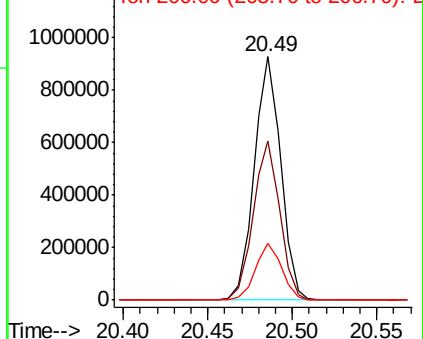
149 100

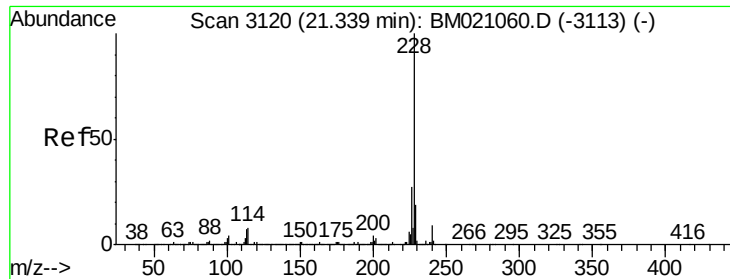
91 65.1 50.9 76.3

206 23.1 19.7 29.5



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





#81

Benzo(a)anthracene

Concen: 17.856 ng

RT: 21.33 min Scan# 3119

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

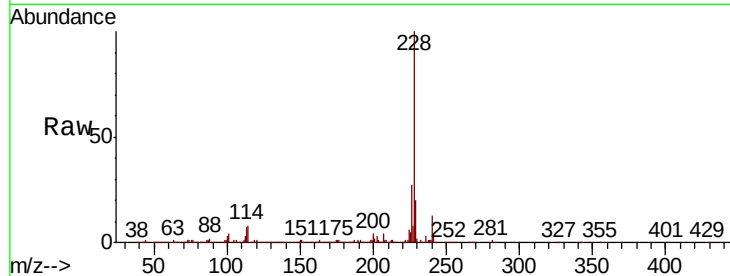
ClientSampleId :

LOQ-SOIL-02-QT2-2019

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 228   | Resp: | 2426152 |
| Ion      | Ratio | Lower | Upper   |
| 228      | 100   |       |         |
| 226      | 26.8  | 21.6  | 32.4    |
| 229      | 19.7  | 15.5  | 23.3    |

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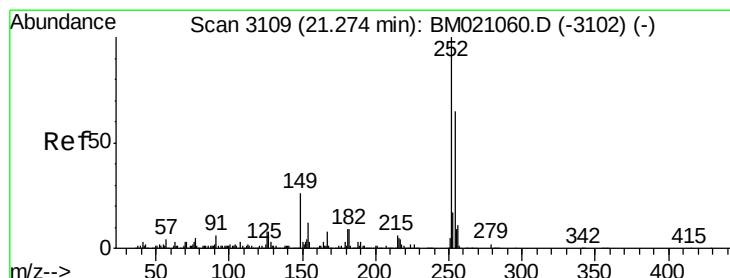
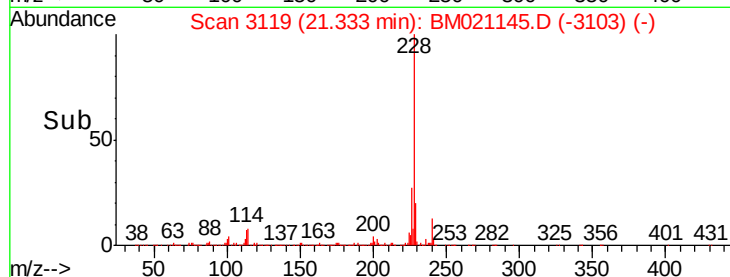
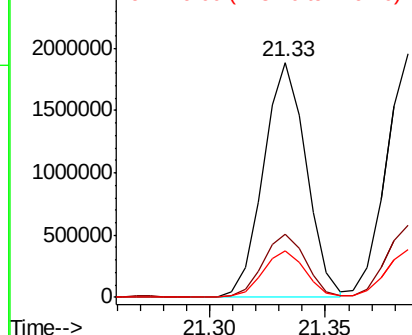


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

3,3'-Dichlorobenzidine

Concen: 16.724 ng

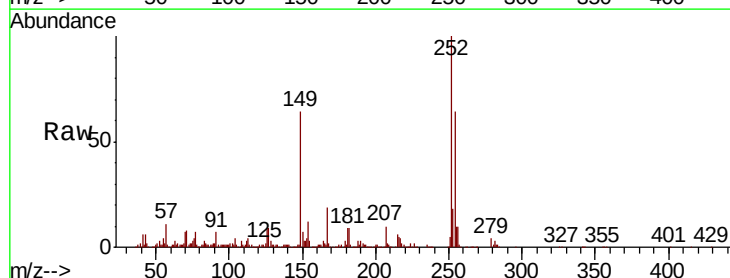
RT: 21.27 min Scan# 3108

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 860665 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 254      | 63.7  | 51.7  | 77.5   |
| 126      | 9.0   | 6.6   | 9.8    |

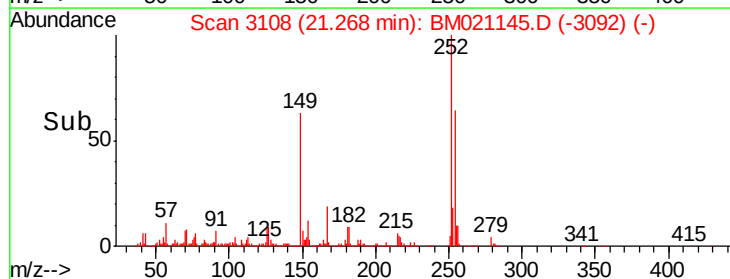
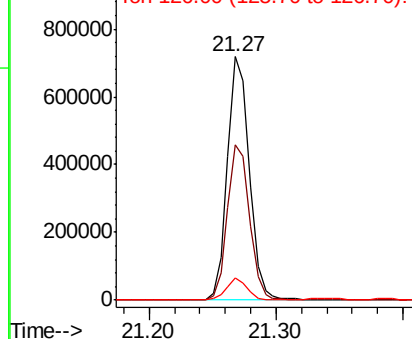


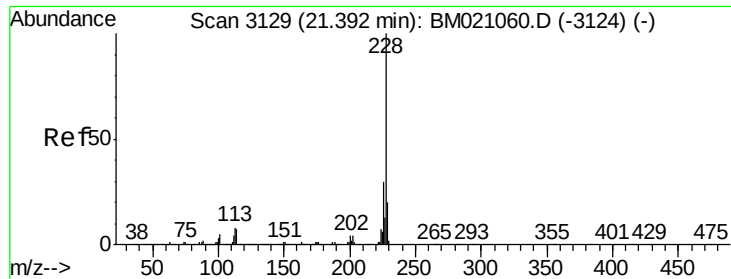
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





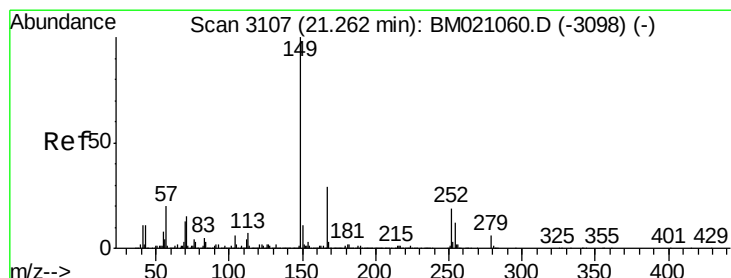
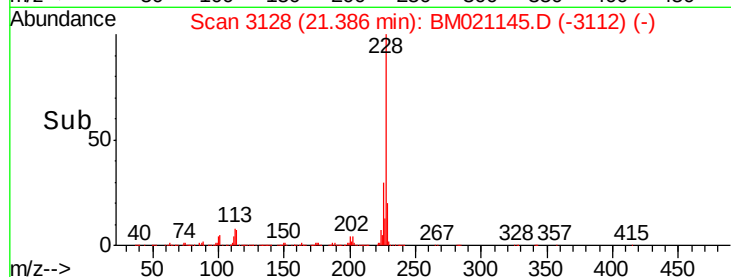
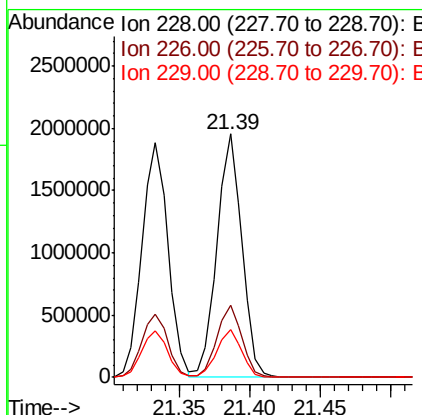
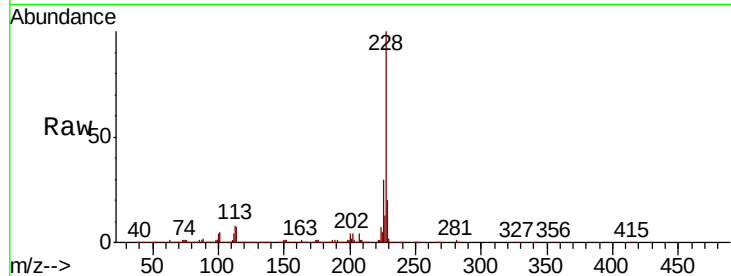
#83  
Chrysene  
Concen: 18.490 ng  
RT: 21.39 min Scan# 3128  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.9  | 24.1  | 36.1  |
| 229     | 19.7  | 15.6  | 23.4  |

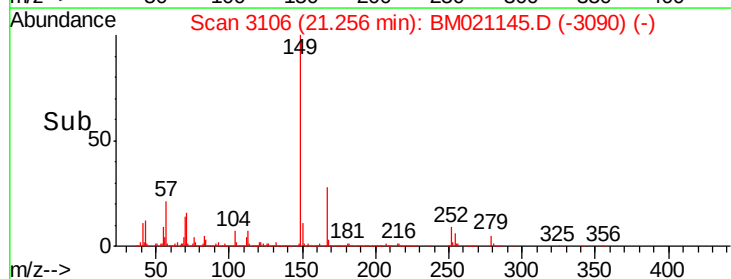
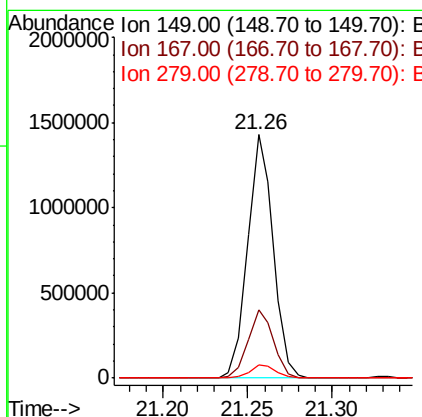
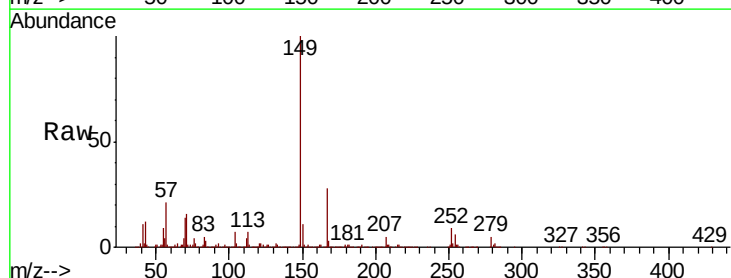
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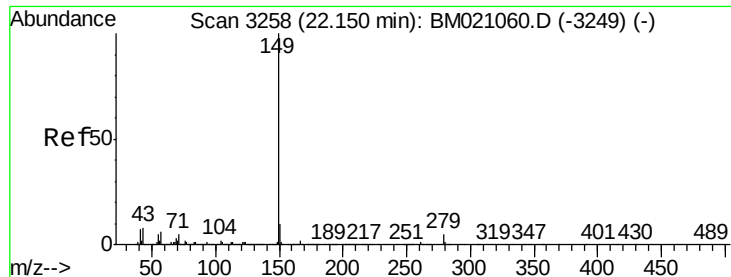
mohammad  
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#84  
Bis(2-ethylhexyl)phthalate  
Concen: 18.369 ng  
RT: 21.26 min Scan# 3106  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.9  | 23.0  | 34.4  |
| 279     | 5.4   | 4.6   | 7.0   |





#85

Di-n-octyl phthalate

Concen: 18.498 ng

RT: 22.15 min Scan# 3258

Delta R.T. -0.00 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:149 Resp: 2385623

Ion Ratio Lower Upper

149 100

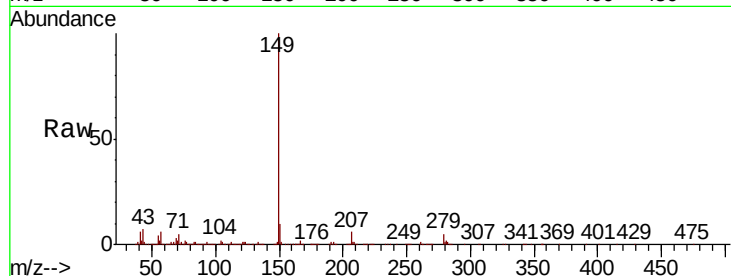
167 1.7 1.3 1.9

43 7.8 6.2 9.2

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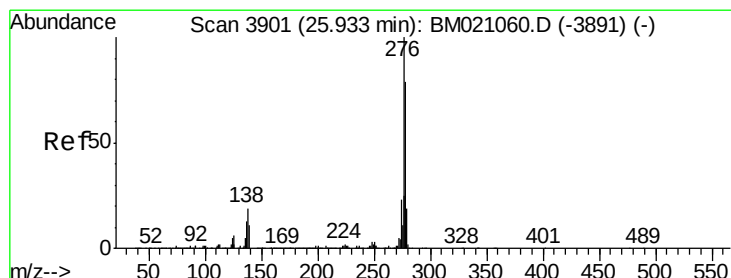
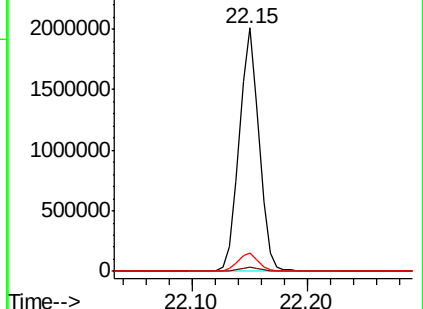
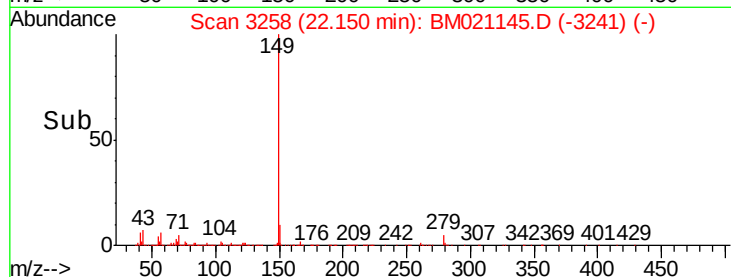
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BM



#86

Indeno(1,2,3-cd)pyrene

Concen: 15.399 ng

RT: 25.92 min Scan# 3899

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

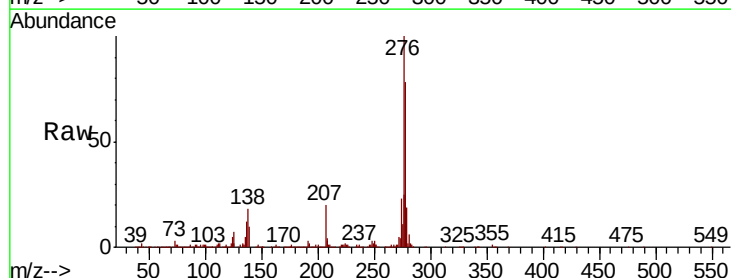
Tgt Ion:276 Resp: 2205558

Ion Ratio Lower Upper

276 100

138 19.2 15.4 23.0

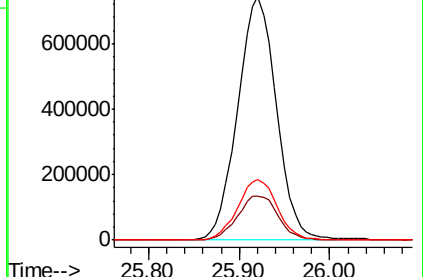
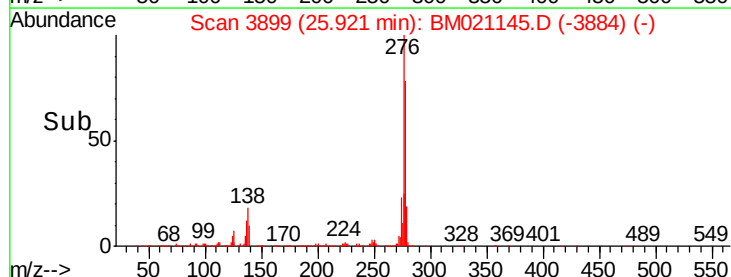
277 25.4 20.4 30.6

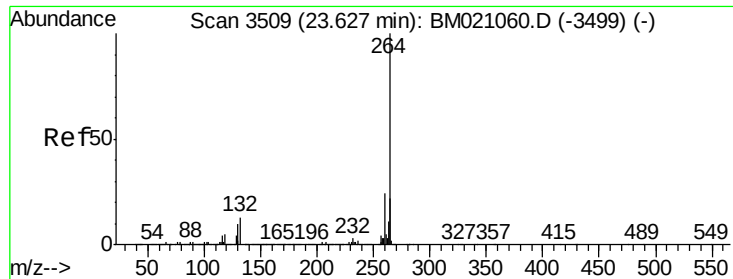


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.62 min Scan# 3508

Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

Instrument :

BNA\_M

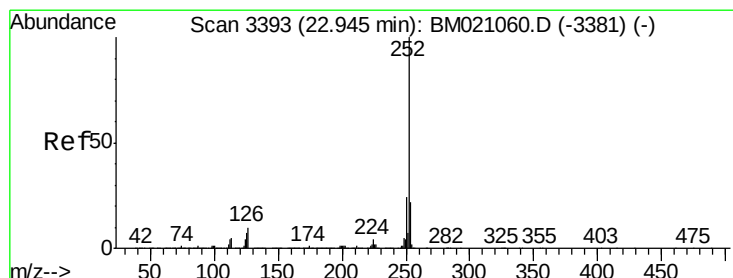
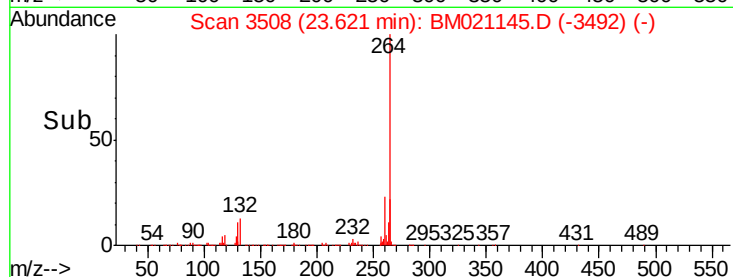
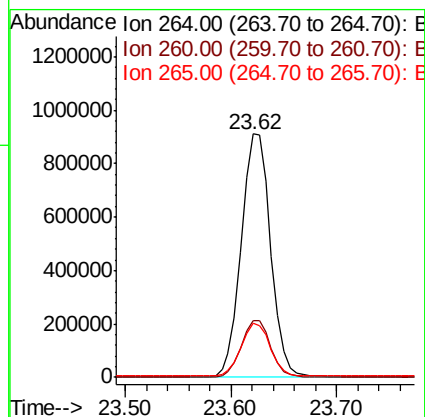
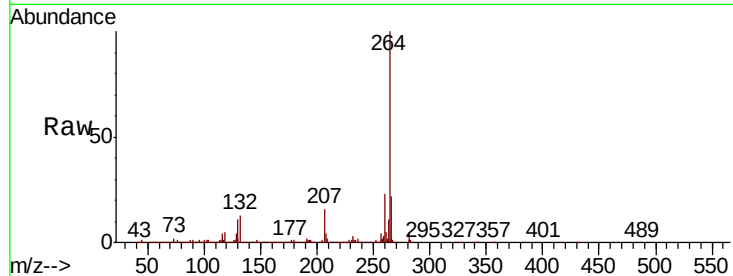
ClientSampleId :

LOQ-SOIL-02-QT2-2019

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 264   | Resp: | 1762135 |
| Ion Ratio | Lower | Upper |         |
| 264       | 100   |       |         |
| 260       | 23.3  | 19.0  | 28.4    |
| 265       | 22.2  | 17.7  | 26.5    |

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#88

Benzo(b)fluoranthene

Concen: 19.363 ng

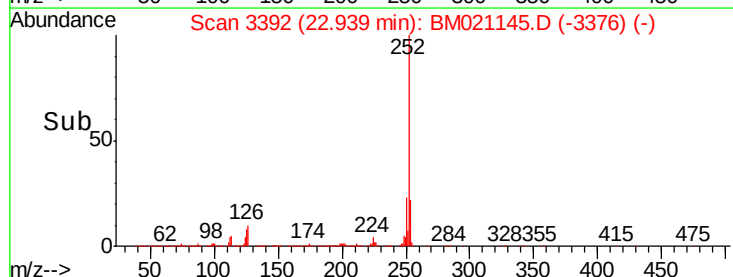
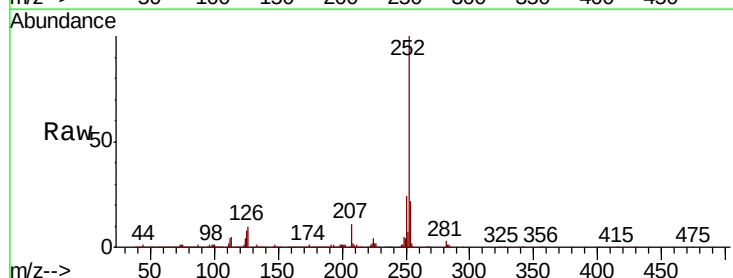
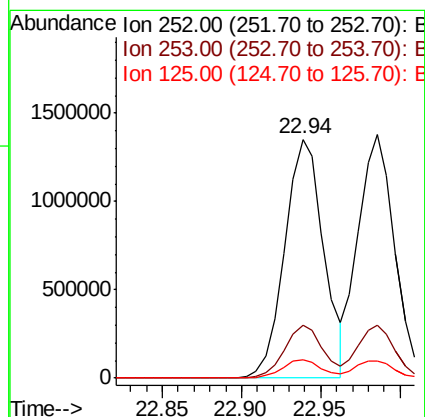
RT: 22.94 min Scan# 3392

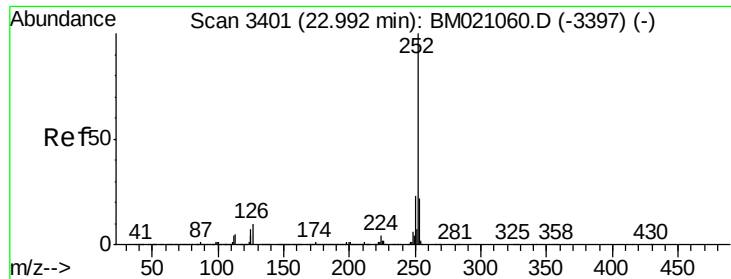
Delta R.T. -0.01 min

Lab File: BM021145.D

Acq: 24 Jun 2019 13:03

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 2301885 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 22.2  | 17.4  | 26.0    |
| 125       | 7.8   | 5.9   | 8.9     |





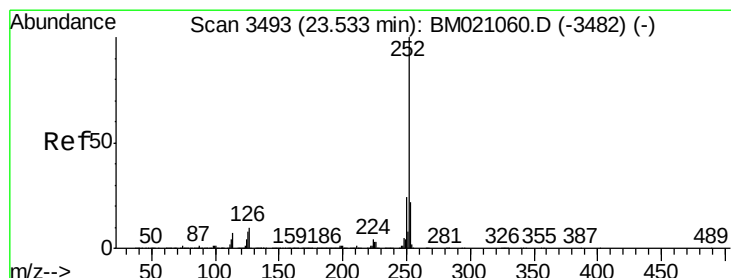
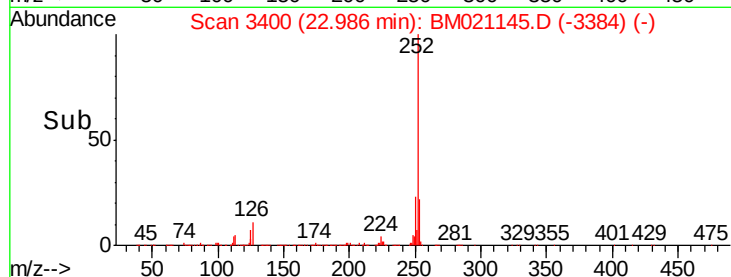
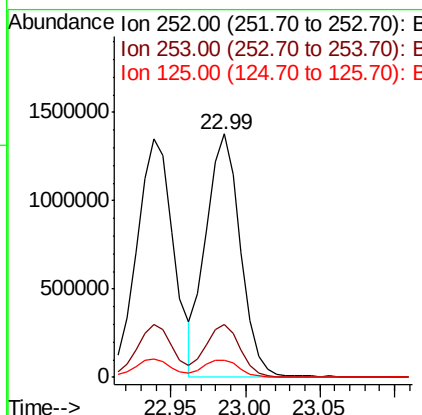
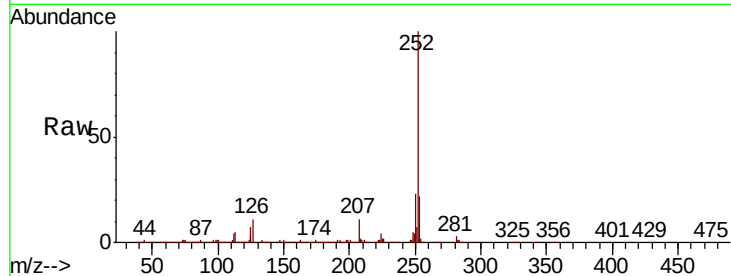
#89  
Benzo(k)fluoranthene  
Concen: 19.228 ng  
RT: 22.99 min Scan# 3400  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 17.5  | 26.3  |
| 125     | 7.2   | 5.9   | 8.9   |

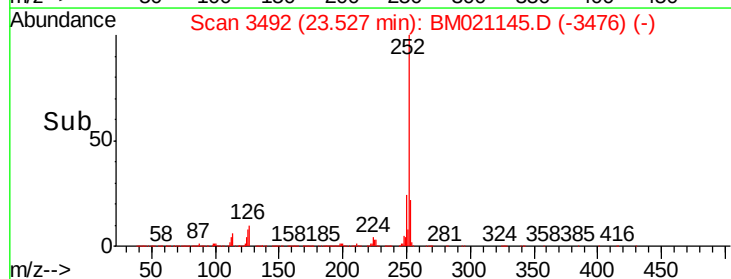
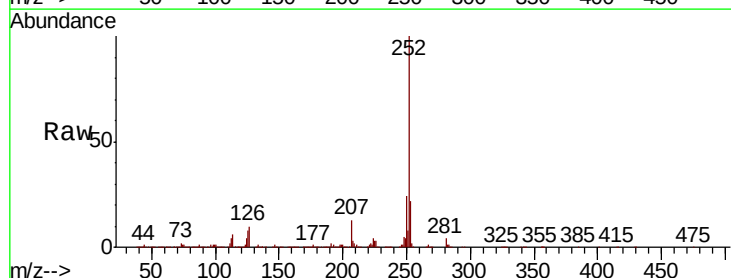
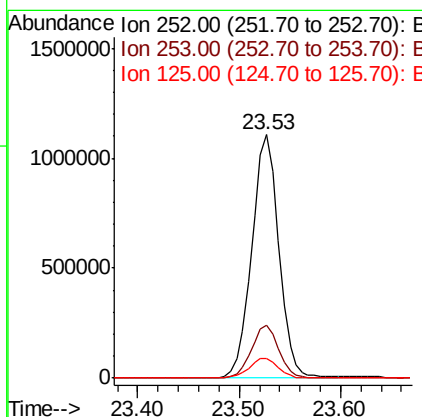
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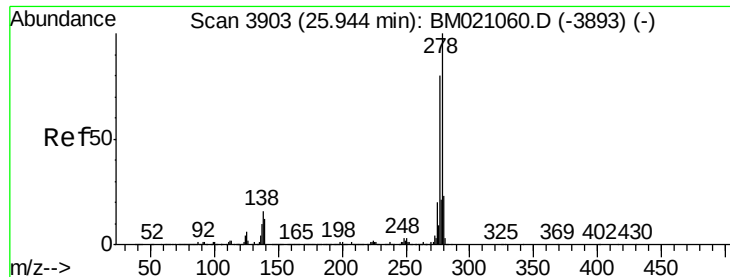
mohammad  
6/28/2019 8:25:57 AM



#90  
Benzo(a)pyrene  
Concen: 19.104 ng  
RT: 23.53 min Scan# 3492  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.7  | 17.5  | 26.3  |
| 125     | 8.3   | 6.6   | 10.0  |





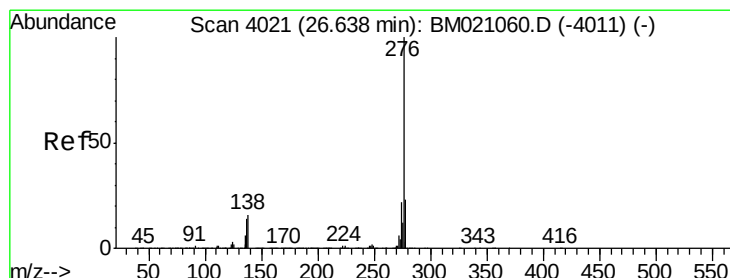
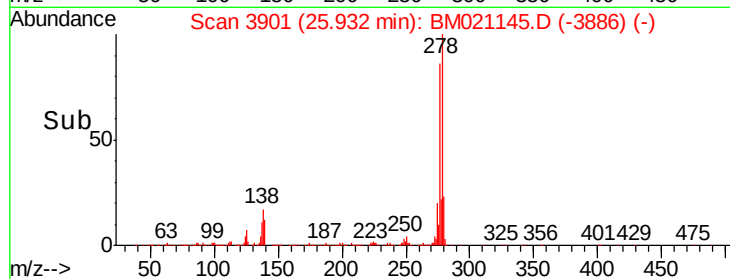
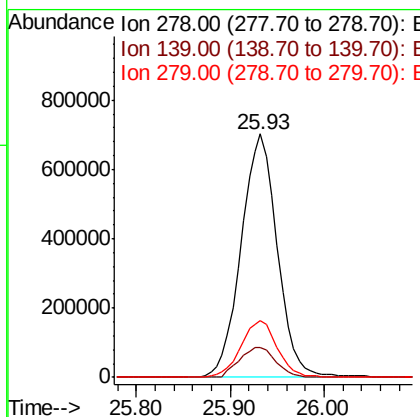
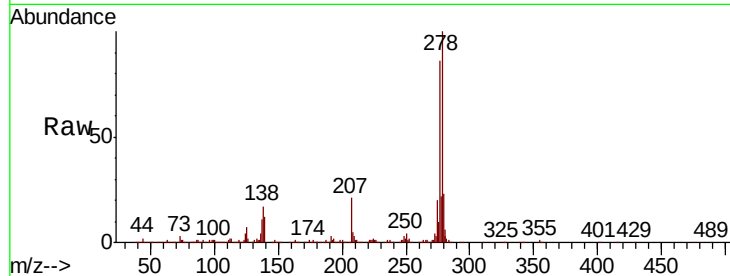
#91  
Dibenzo(a,h)anthracene  
Concen: 17.475 ng  
RT: 25.93 min Scan# 3901  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT2-2019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 12.1  | 9.8   | 14.8  |
| 279     | 23.3  | 18.7  | 28.1  |

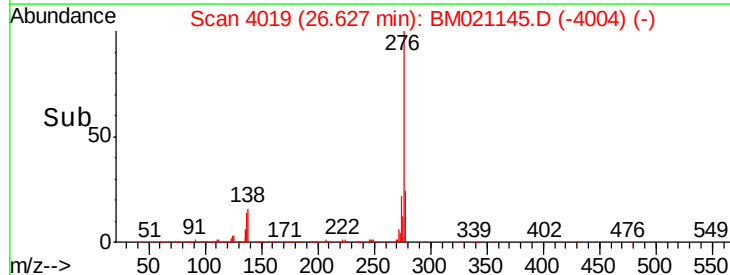
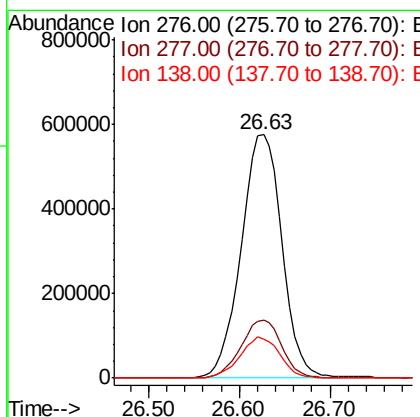
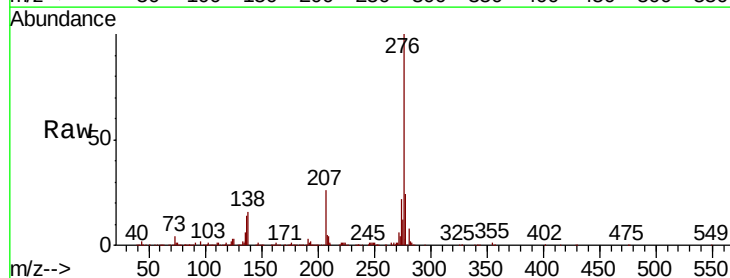
Manual Integrations  
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6/28/2019 8:25:57 AM



#92  
Benzo(g,h,i)perylene  
Concen: 18.063 ng  
RT: 26.63 min Scan# 4019  
Delta R.T. -0.01 min  
Lab File: BM021145.D  
Acq: 24 Jun 2019 13:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.7  | 18.8  | 28.2  |
| 138     | 15.9  | 13.1  | 19.7  |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062419\  
 Data File : BM021145.D  
 Acq On : 24 Jun 2019 13:03  
 Operator : HP/JU  
 Sample : K2241-02  
 Misc : L00-SOIL-20PPM  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2019

Manual Integrations  
 APPROVED

mohammad  
 6/28/2019 8:25:57 AM

Quant Time: Jun 25 04:46:55 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM062019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 20 15:39:58 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.77  | 152  | 265682   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.56 | 136  | 1168954  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.41 | 164  | 808466   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 17.16 | 188  | 2012587  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.35 | 240  | 1993232  | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 23.62 | 264  | 1762135  | 20.00 | ng    | 0.00     |

|                             |       |     |         |       |    |       |
|-----------------------------|-------|-----|---------|-------|----|-------|
| System Monitoring Compounds |       |     |         |       |    |       |
| 5) 2-Fluorophenol           | 5.36  | 112 | 1149445 | 78.34 | ng | 0.00  |
| 7) Phenol-d6                | 6.95  | 99  | 1692704 | 79.22 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 8.93  | 82  | 1085646 | 48.40 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol    | 15.91 | 330 | 1282715 | 84.55 | ng | 0.00  |
| 45) 2-Fluorobiphenyl        | 13.03 | 172 | 3213380 | 48.85 | ng | -0.01 |
| 79) Terphenyl-d14           | 19.79 | 244 | 5977104 | 56.01 | ng | 0.00  |

|                                |       |     |         |        |    |      |
|--------------------------------|-------|-----|---------|--------|----|------|
| Target Compounds               |       |     |         | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.32  | 88  | 105172  | 19.025 | ng | 98   |
| 3) Pyridine                    | 3.72  | 79  | 293565  | 18.467 | ng | 98   |
| 4) n-Nitrosodimethylamine      | 3.63  | 42  | 105215  | 17.190 | ng | # 98 |
| 6) Aniline                     | 7.11  | 93  | 479703  | 16.856 | ng | 98   |
| 8) 2-Chlorophenol              | 7.34  | 128 | 330240  | 18.288 | ng | 99   |
| 9) Benzaldehyde                | 6.93  | 77  | 284363  | 22.676 | ng | 98   |
| 10) Phenol                     | 6.97  | 94  | 401179  | 18.378 | ng | 98   |
| 11) bis(2-Chloroethyl)ether    | 7.20  | 93  | 303163  | 17.542 | ng | 100  |
| 12) 1,3-Dichlorobenzene        | 7.66  | 146 | 379777  | 17.359 | ng | 99   |
| 13) 1,4-Dichlorobenzene        | 7.81  | 146 | 389481  | 17.510 | ng | 99   |
| 14) 1,2-Dichlorobenzene        | 8.12  | 146 | 381933  | 17.521 | ng | 99   |
| 15) Benzyl Alcohol             | 8.02  | 79  | 305284  | 17.646 | ng | 97   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.30  | 45  | 402138  | 17.989 | ng | 100  |
| 17) 2-Methylphenol             | 8.21  | 107 | 281119  | 18.029 | ng | 99   |
| 18) Hexachloroethane           | 8.84  | 117 | 135307  | 16.942 | ng | 95   |
| 19) n-Nitroso-di-n-propylamine | 8.58  | 70  | 287271  | 18.475 | ng | 98   |
| 20) 3+4-Methylphenols          | 8.54  | 107 | 391532  | 18.242 | ng | 99   |
| 22) Acetophenone               | 8.60  | 105 | 582111  | 19.542 | ng | 99   |
| 24) Nitrobenzene               | 8.97  | 77  | 414203  | 18.642 | ng | 98   |
| 25) Isophorone                 | 9.50  | 82  | 792368  | 18.880 | ng | 100  |
| 26) 2-Nitrophenol              | 9.68  | 139 | 196751  | 18.085 | ng | 97   |
| 27) 2,4-Dimethylphenol         | 9.74  | 122 | 307852  | 19.401 | ng | 99   |
| 28) bis(2-Chloroethoxy)methane | 9.98  | 93  | 468059  | 17.948 | ng | 100  |
| 29) 2,4-Dichlorophenol         | 10.21 | 162 | 374334  | 18.228 | ng | 98   |
| 30) 1,2,4-Trichlorobenzene     | 10.42 | 180 | 428292  | 17.692 | ng | 99   |
| 31) Naphthalene                | 10.61 | 128 | 1147733 | 18.553 | ng | 99   |
| 32) Benzoic acid               | 9.87  | 122 | 237451m | 18.498 | ng |      |
| 33) 4-Chloroaniline            | 10.73 | 127 | 505036  | 17.984 | ng | 98   |
| 34) Hexachlorobutadiene        | 10.88 | 225 | 261211  | 17.089 | ng | 99   |
| 35) Caprolactam                | 11.53 | 113 | 121010  | 18.839 | ng | 97   |
| 36) 4-Chloro-3-methylphenol    | 11.85 | 107 | 405072  | 19.384 | ng | 97   |
| 37) 2-Methylnaphthalene        | 12.22 | 142 | 920603  | 19.341 | ng | 99   |
| 38) 1-Methylnaphthalene        | 12.45 | 142 | 886197  | 19.520 | ng | 100  |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.59 | 216 | 566916  | 18.526 | ng | 100  |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062419\  
 Data File : BM021145.D  
 Acq On : 24 Jun 2019 13:03  
 Operator : HP/JU  
 Sample : K2241-02  
 Misc : L00-SOIL-20PPM  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2019

Manual Integrations  
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mohammad  
 6/28/2019 8:25:57 AM

Quant Time: Jun 25 04:46:55 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM062019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 20 15:39:58 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 12.56 | 237  | 251429   | 14.174 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol      | 12.84 | 196  | 352488   | 17.408 | ng    | 100      |
| 44) 2,4,5-Trichlorophenol      | 12.91 | 196  | 385470   | 18.383 | ng    | 98       |
| 46) 1,1'-Biphenyl              | 13.25 | 154  | 1324367  | 19.140 | ng    | 99       |
| 47) 2-Chloronaphthalene        | 13.29 | 162  | 979561   | 17.430 | ng    | 99       |
| 48) 2-Nitroaniline             | 13.50 | 65   | 258500   | 16.814 | ng    | 95       |
| 49) Acenaphthylene             | 14.13 | 152  | 1576720  | 18.436 | ng    | 100      |
| 50) Dimethylphthalate          | 13.87 | 163  | 1299616  | 18.080 | ng    | 100      |
| 51) 2,6-Dinitrotoluene         | 14.00 | 165  | 287363   | 18.583 | ng    | 98       |
| 52) Acenaphthene               | 14.47 | 154  | 933910   | 18.099 | ng    | 99       |
| 53) 3-Nitroaniline             | 14.33 | 138  | 266076   | 16.878 | ng    | 96       |
| 54) 2,4-Dinitrophenol          | 14.54 | 184  | 126143   | 15.186 | ng    | 97       |
| 55) Dibenzofuran               | 14.81 | 168  | 1583822  | 18.816 | ng    | 99       |
| 56) 4-Nitrophenol              | 14.64 | 139  | 199967   | 16.588 | ng    | 97       |
| 57) 2,4-Dinitrotoluene         | 14.79 | 165  | 390916   | 18.307 | ng    | 99       |
| 58) Fluorene                   | 15.46 | 166  | 1294105  | 18.816 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol  | 15.04 | 232  | 383442   | 19.139 | ng    | 100      |
| 60) Diethylphthalate           | 15.24 | 149  | 1304969  | 18.433 | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 15.46 | 204  | 710233   | 18.279 | ng    | 97       |
| 62) 4-Nitroaniline             | 15.50 | 138  | 278112   | 16.808 | ng    | 98       |
| 63) Azobenzene                 | 15.75 | 77   | 1097995  | 18.908 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylphenol | 15.55 | 198  | 191986   | 15.471 | ng    | 99       |
| 66) n-Nitrosodiphenylamine     | 15.67 | 169  | 1145065  | 18.051 | ng    | 100      |
| 67) 4-Bromophenyl-phenylether  | 16.35 | 248  | 459233   | 17.141 | ng    | 96       |
| 68) Hexachlorobenzene          | 16.46 | 284  | 547792   | 17.115 | ng    | 99       |
| 69) Atrazine                   | 16.63 | 200  | 392609   | 19.032 | ng    | 98       |
| 70) Pentachlorophenol          | 16.81 | 266  | 300908   | 17.449 | ng    | 99       |
| 71) Phenanthrene               | 17.20 | 178  | 2145946  | 18.501 | ng    | 100      |
| 72) Anthracene                 | 17.29 | 178  | 2141729  | 18.641 | ng    | 100      |
| 73) Carbazole                  | 17.57 | 167  | 1902263  | 18.725 | ng    | 100      |
| 74) Di-n-butylphthalate        | 18.13 | 149  | 2238317  | 17.998 | ng    | 100      |
| 75) Fluoranthene               | 19.22 | 202  | 2578873  | 19.254 | ng    | 99       |
| 77) Benzidine                  | 19.42 | 184  | 702710   | 12.141 | ng    | 99       |
| 78) Pyrene                     | 19.59 | 202  | 2661864  | 18.414 | ng    | 100      |
| 80) Butylbenzylphthalate       | 20.49 | 149  | 1011846  | 17.561 | ng    | 98       |
| 81) Benzo(a)anthracene         | 21.33 | 228  | 2426152  | 17.856 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine     | 21.27 | 252  | 860665   | 16.724 | ng    | 99       |
| 83) Chrysene                   | 21.39 | 228  | 2393274  | 18.490 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phthalate | 21.26 | 149  | 1506373  | 18.369 | ng    | 99       |
| 85) Di-n-octyl phthalate       | 22.15 | 149  | 2385623  | 18.498 | ng    | 100      |
| 86) Indeno(1,2,3-cd)pyrene     | 25.92 | 276  | 2205558  | 15.399 | ng    | 100      |
| 88) Benzo(b)fluoranthene       | 22.94 | 252  | 2301885  | 19.363 | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 22.99 | 252  | 2209571  | 19.228 | ng    | 100      |
| 90) Benzo(a)pyrene             | 23.53 | 252  | 2049224  | 19.104 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene     | 25.93 | 278  | 1868827  | 17.475 | ng    | 100      |
| 92) Benzo(g,h,i)perylene       | 26.63 | 276  | 1801380  | 18.063 | ng    | 99       |

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