

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP070820\  
 Data File : BP002671.D  
 Acq On : 08 Jul 2020 12:54  
 Operator : CG/JU  
 Sample : L3217-09  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 E3-41-NHL

Manual Integrations  
 APPROVED

mohammad  
 7/9/2020 11:00:23 AM

Quant Time: Jul 10 17:43:58 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP062920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 29 16:51:57 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|----------|---------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.58  | 152  | 147280   | 20.00   | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.34 | 136  | 694030   | 20.00   | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.22 | 164  | 458384   | 20.00   | ng    | 0.00     |
| 64) Phenanthrene-d10        | 16.98 | 188  | 1026240  | 20.00   | ng    | 0.00     |
| 76) Chrysene-d12            | 21.09 | 240  | 1228200  | 20.00   | ng    | 0.00     |
| 86) Perylene-d12            | 23.29 | 264  | 1407109  | 20.00   | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.29  | 112  | 194076m  | 22.31   | ng    | 0.09     |
| 7) Phenol-d6                | 6.96  | 99   | 266554   | 21.95   | ng    | 0.19     |
| 23) Nitrobenzene-d5         | 8.72  | 82   | 147053   | 10.92   | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.72 | 330  | 124285   | 22.29   | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.83 | 172  | 373372   | 11.99   | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.57 | 244  | 721669   | 12.68   | ng    | 0.00     |
| Target Compounds            |       |      |          |         |       |          |
| 10) Phenol                  | 6.99  | 94   | 1013007m | 82.737  | ng    | Qvalue   |
| 17) 2-Methylphenol          | 8.04  | 107  | 263246   | 28.725  | ng    | 98       |
| 20) 3+4-Methylphenols       | 8.37  | 107  | 1162908  | 94.121  | ng    | 94       |
| 27) 2,4-Dimethylphenol      | 9.55  | 122  | 387334m  | 39.312  | ng    |          |
| 31) Naphthalene             | 10.39 | 128  | 3180699  | 86.573  | ng    | 99       |
| 32) Benzoic acid            | 9.69  | 122  | 73817    | 16.509  | ng    | 94       |
| 37) 2-Methylnaphthalene     | 12.02 | 142  | 3376737  | 126.052 | ng    | 98       |
| 38) 1-Methylnaphthalene     | 12.24 | 142  | 1937263  | 76.786  | ng    | 99       |
| 46) 1,1'-Biphenyl           | 13.05 | 154  | 1187739  | 34.255  | ng    | 99       |
| 50) Dimethylphthalate       | 13.68 | 163  | 126501   | 3.514   | ng    | 100      |
| 52) Acenaphthene            | 14.28 | 154  | 1074931  | 41.015  | ng    | 98       |
| 55) Dibenzofuran            | 14.62 | 168  | 1068274  | 25.153  | ng    | 97       |
| 58) Fluorene                | 15.27 | 166  | 213519   | 6.601   | ng    | 98       |
| 74) Di-n-butylphthalate     | 17.97 | 149  | 145356   | 2.324   | ng    | # 88     |

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

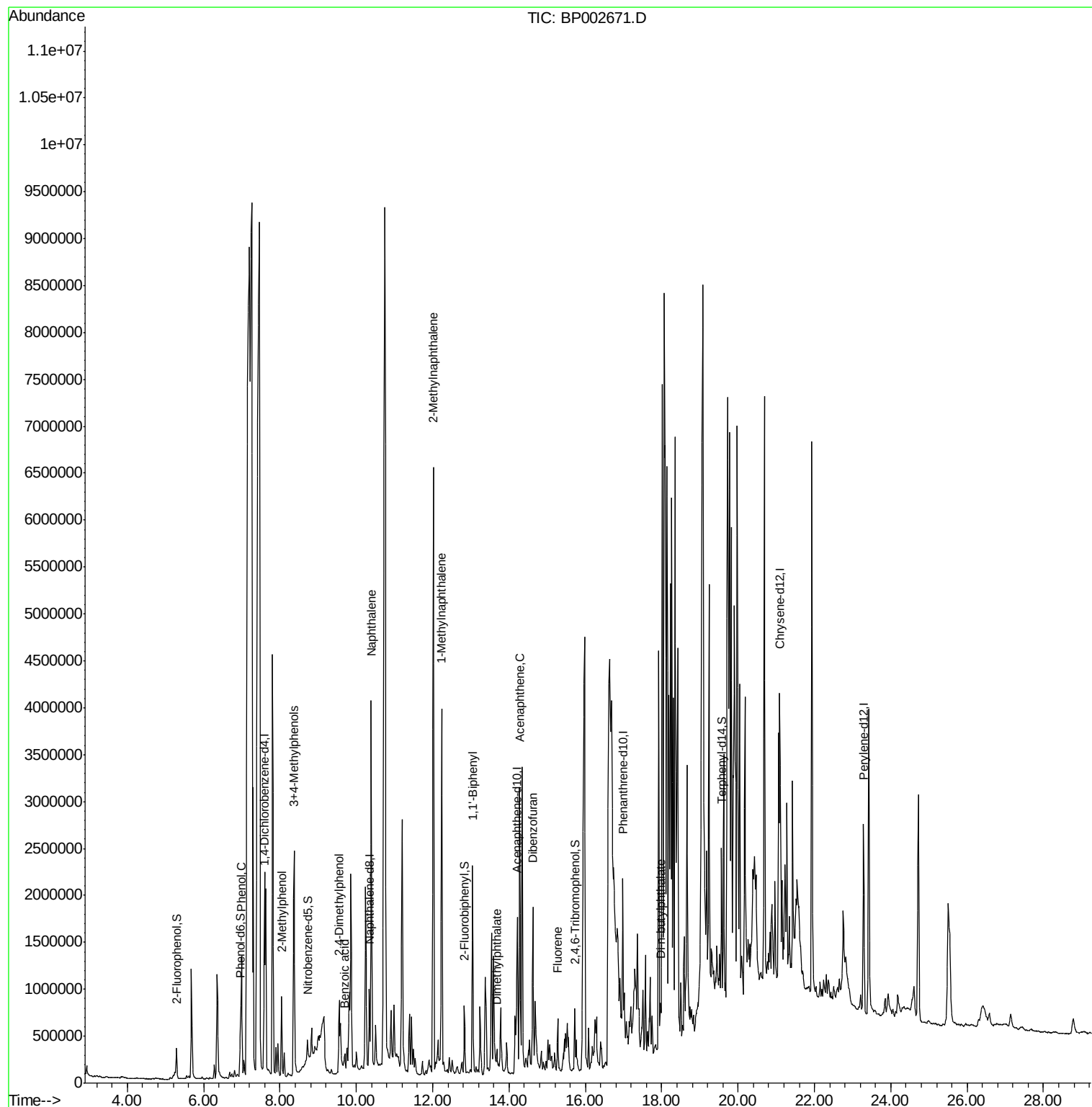
Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP070820\  
Data File : BP002671.D  
Acq On : 08 Jul 2020 12:54  
Operator : CG/JU  
Sample : L3217-09  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

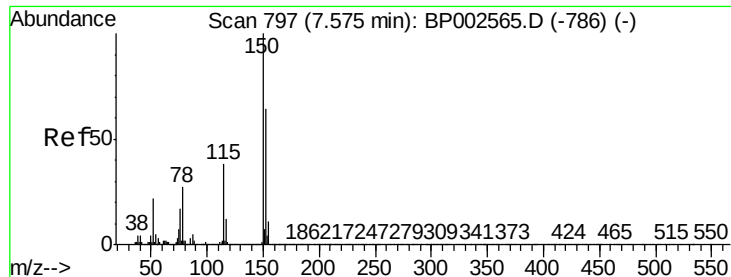
Instrument :  
BNA\_P  
ClientSampleId :  
E3-41-NHL

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7/9/2020 11:00:23 AM

Quant Time: Jul 10 17:43:58 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP062920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 29 16:51:57 2020  
Response via : Initial Calibration





#1

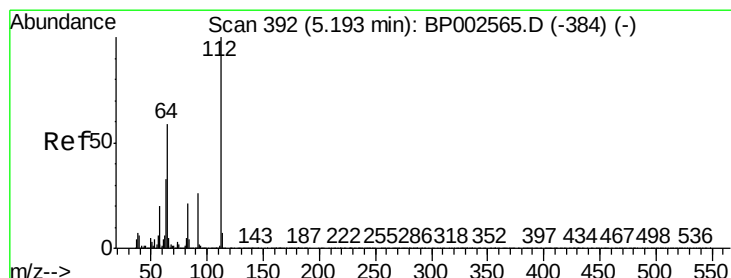
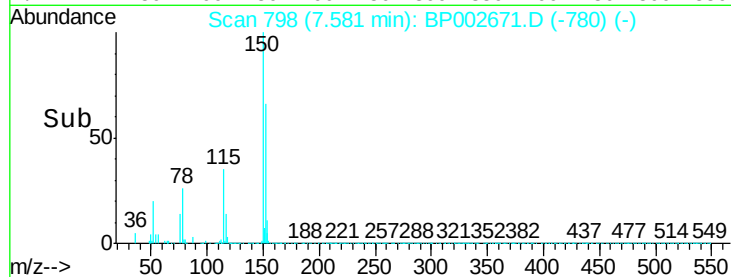
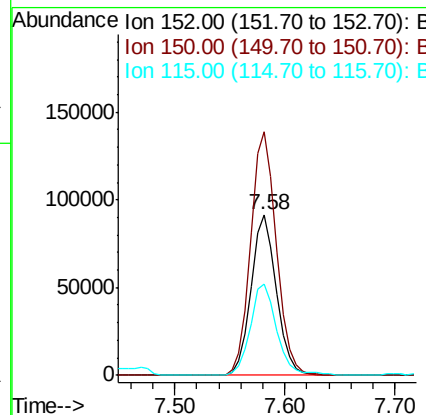
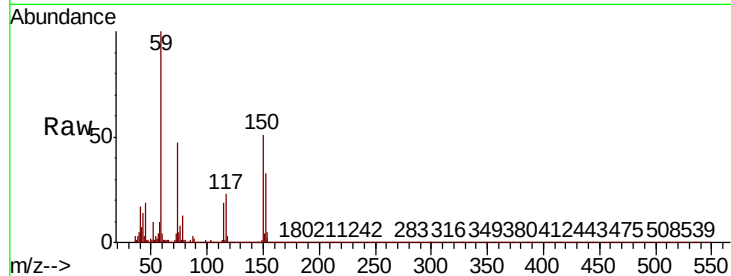
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.58 min Scan# 798  
Delta R.T. 0.01 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

Instrument :  
BNA\_P  
ClientSampleId :  
E3-41-NHL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.7 | 124.2 | 186.2 |
| 115     | 56.6  | 47.1  | 70.7  |

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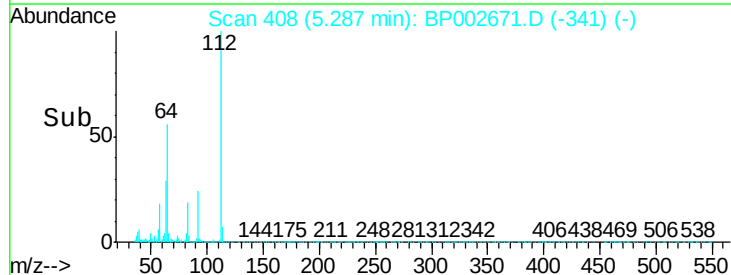
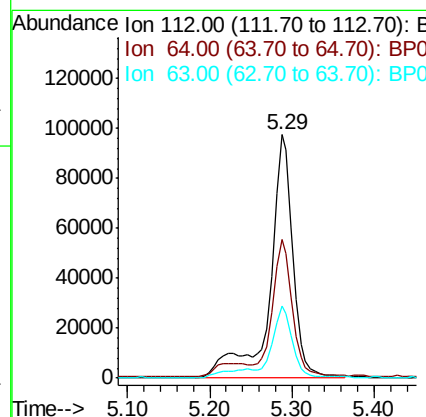
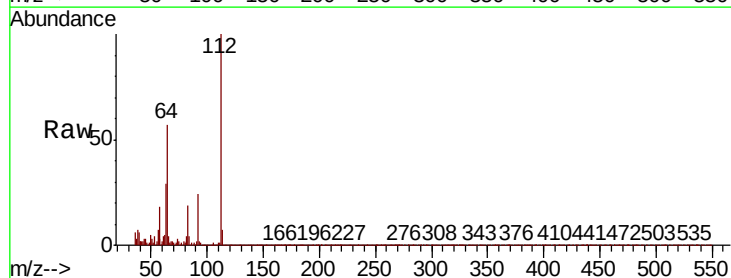
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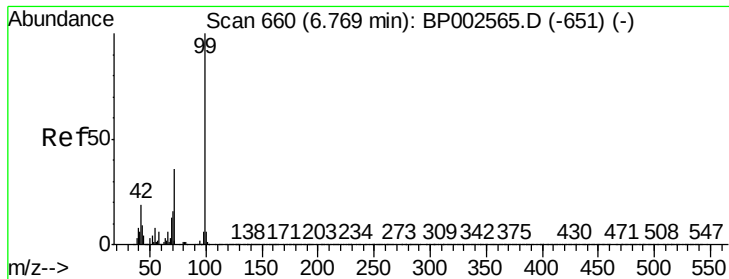


#5

2-Fluorophenol  
Concen: 22.311 ng m  
RT: 5.29 min Scan# 408  
Delta R.T. 0.09 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.8  | 47.0  | 70.6  |
| 63      | 29.4  | 26.1  | 39.1  |





#7

Phenol-d6

Concen: 21.954 ng

RT: 6.96 min Scan# 692

Delta R.T. 0.19 min

Lab File: BP002671.D

Acq: 08 Jul 2020 12:54

Instrument :

BNA\_P

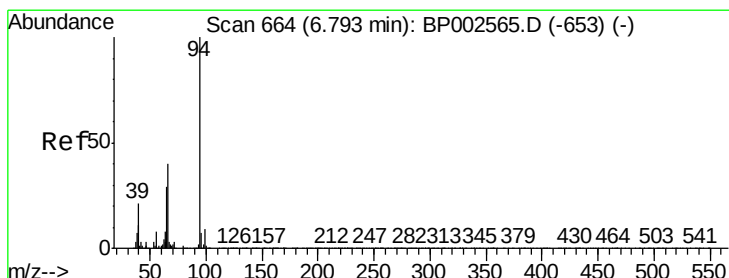
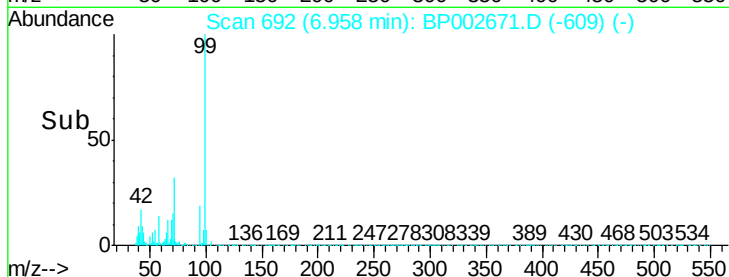
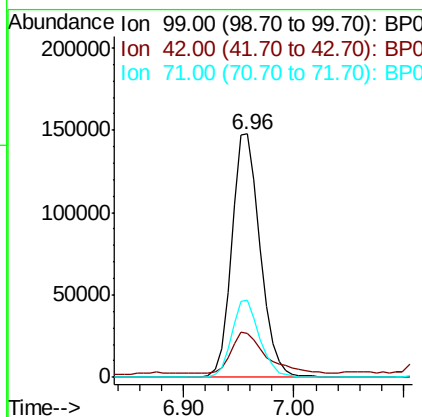
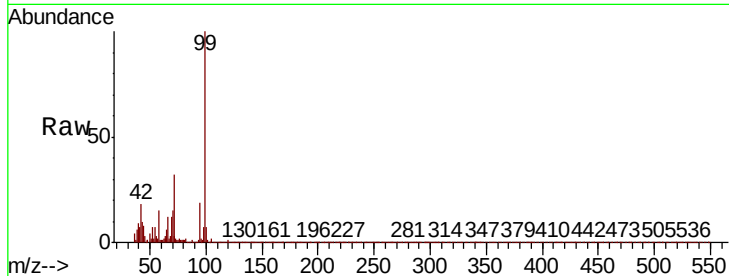
ClientSampleId :

E3-41-NHL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 266554 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 18.2  | 15.5  | 23.3   |
| 71        | 32.0  | 28.9  | 43.3   |

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#10

Phenol

Concen: 82.737 ng m

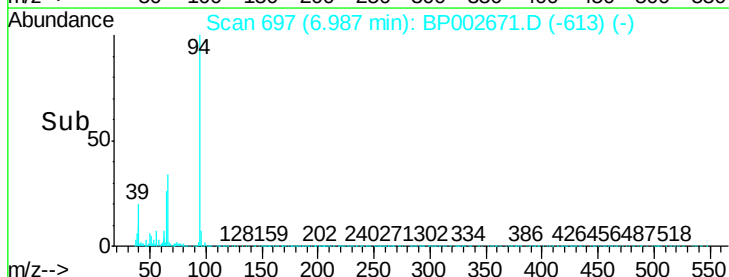
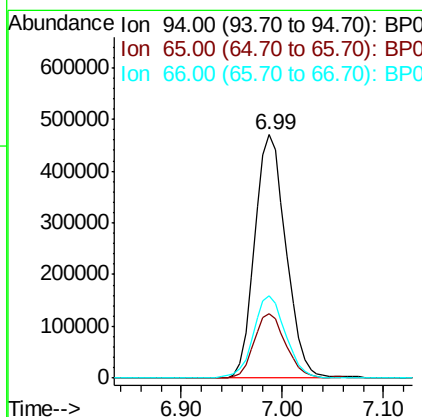
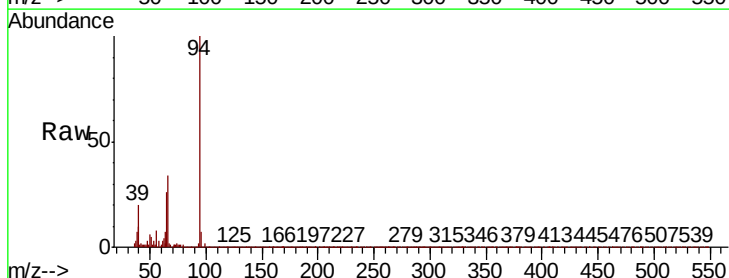
RT: 6.99 min Scan# 697

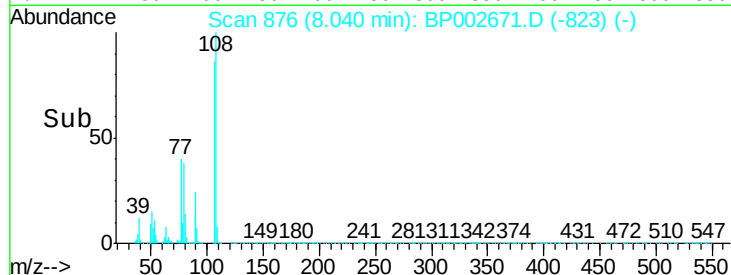
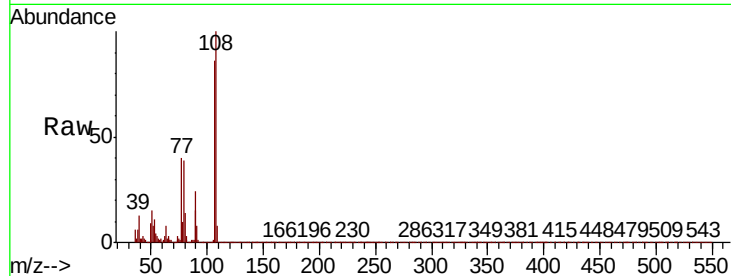
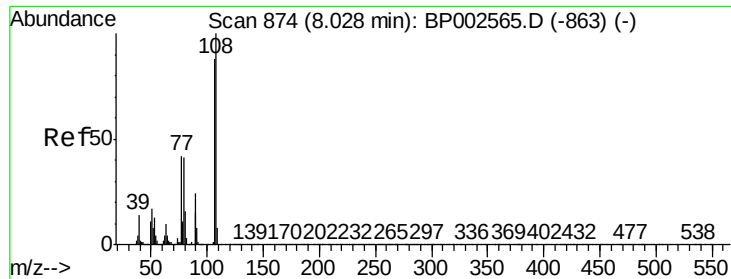
Delta R.T. 0.19 min

Lab File: BP002671.D

Acq: 08 Jul 2020 12:54

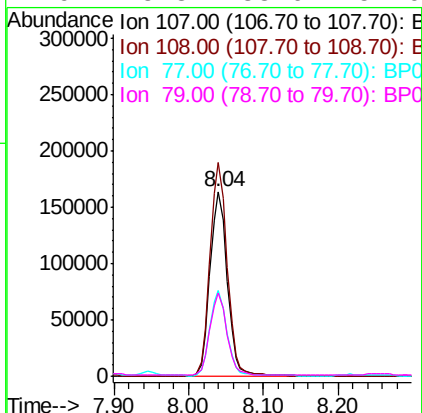
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 94    | Resp: | 1013007 |
| Ion Ratio | Lower | Upper |         |
| 94        | 100   |       |         |
| 65        | 26.4  | 8.8   | 48.8    |
| 66        | 34.0  | 19.9  | 59.9    |





#17  
2-Methylphenol  
Concen: 28.725 ng  
RT: 8.04 min Scan# 876  
Delta R.T. 0.01 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

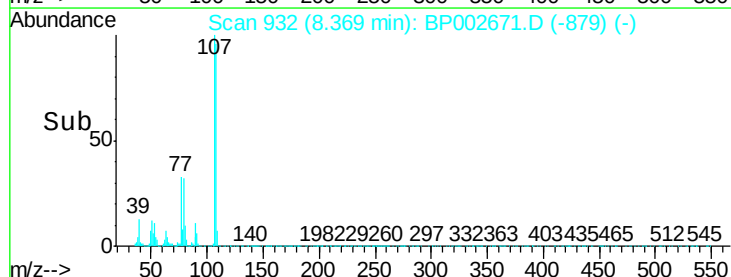
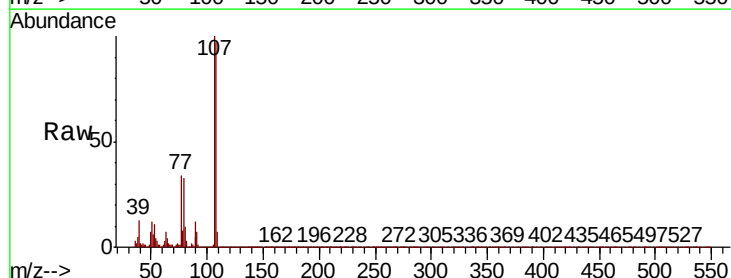
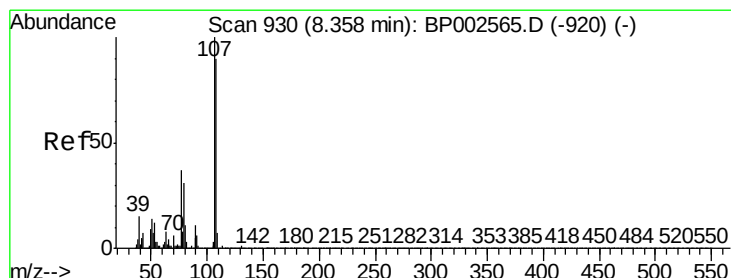
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 107     | 100   |      |       |       |
| 108     | 115.7 | 91.4 | 137.0 |       |
| 77      | 46.5  | 38.7 | 58.1  |       |
| 79      | 45.3  | 38.0 | 57.0  |       |



Instrument :  
BNA\_P  
ClientSampleId :  
E3-41-NHL

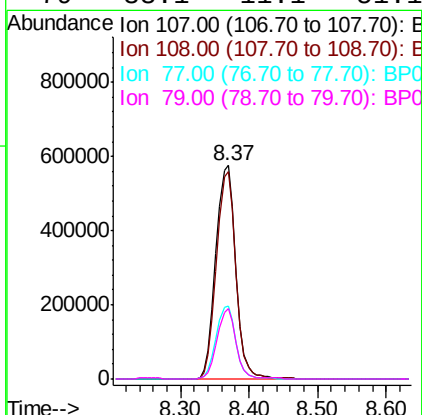
Manual Integrations  
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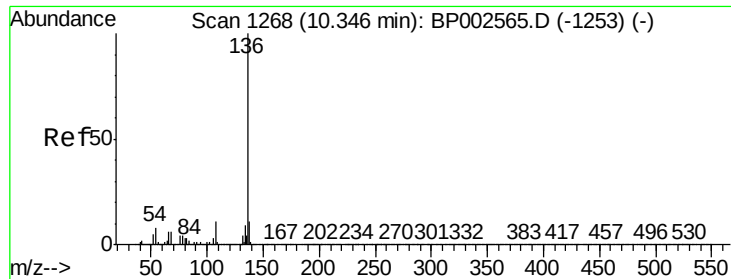
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#20  
3+4-Methylphenols  
Concen: 94.121 ng  
RT: 8.37 min Scan# 932  
Delta R.T. 0.01 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 107     | 100   |      |       |       |
| 108     | 96.9  | 70.4 | 110.4 |       |
| 77      | 34.1  | 16.7 | 56.7  |       |
| 79      | 33.1  | 11.1 | 51.1  |       |





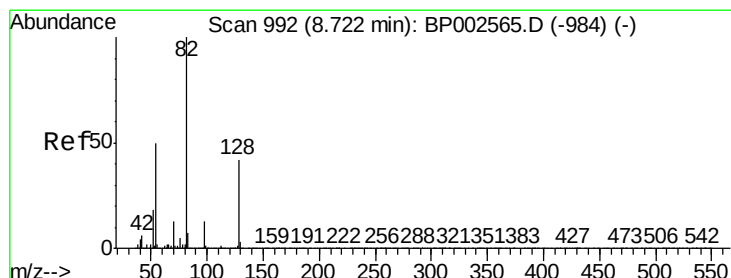
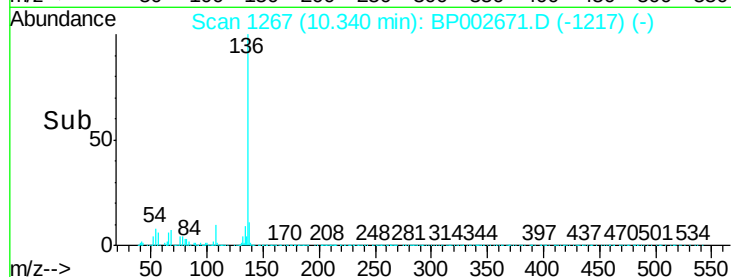
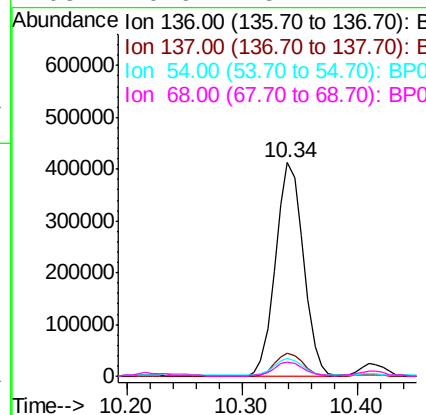
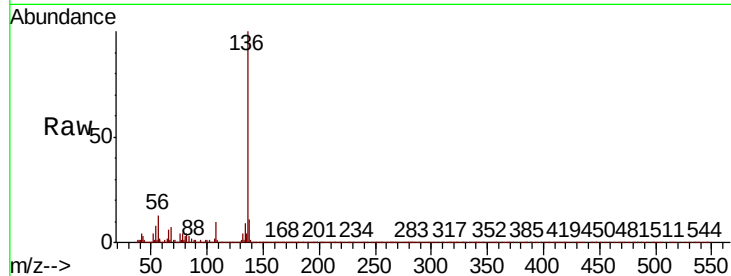
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.34 min Scan# 1267  
Delta R.T. -0.01 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

Instrument :  
BNA\_P  
ClientSampleId :  
E3-41-NHL

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 694030 |       |       |
| 137     | 11.0 | 8.8   | 13.2   |       |       |
| 54      | 8.3  | 6.4   | 9.6    |       |       |
| 68      | 6.9  | 5.1   | 7.7    |       |       |

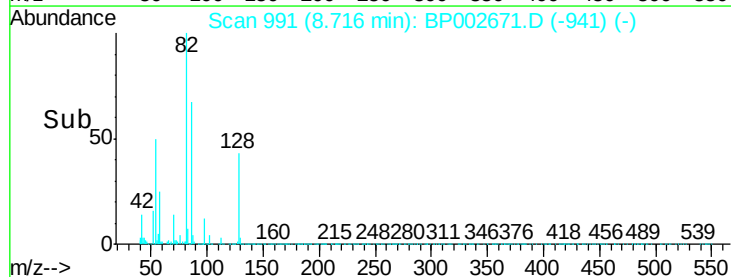
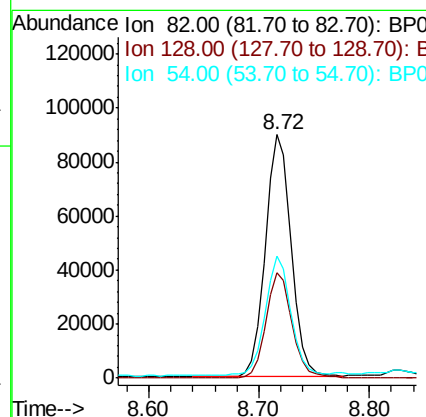
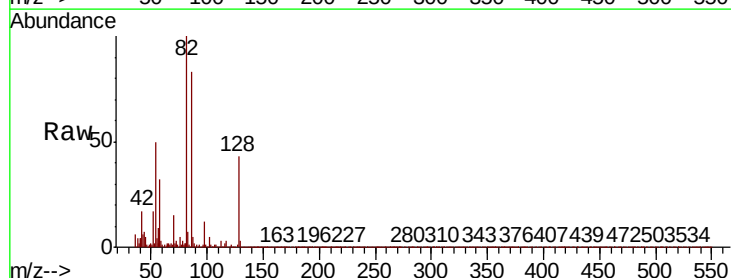
Manual Integrations  
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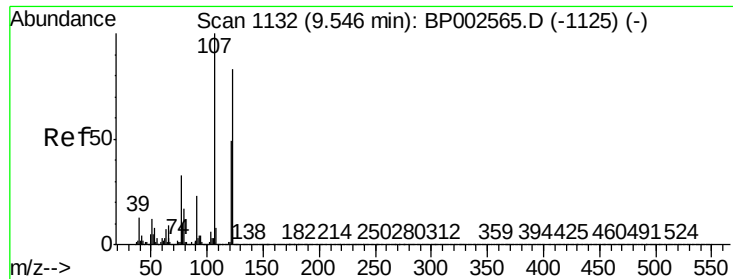
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#23  
Nitrobenzene-d5  
Concen: 10.917 ng  
RT: 8.72 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 82      | 100  |       | 147053 |       |       |
| 128     | 43.0 | 33.4  | 50.2   |       |       |
| 54      | 50.3 | 40.1  | 60.1   |       |       |





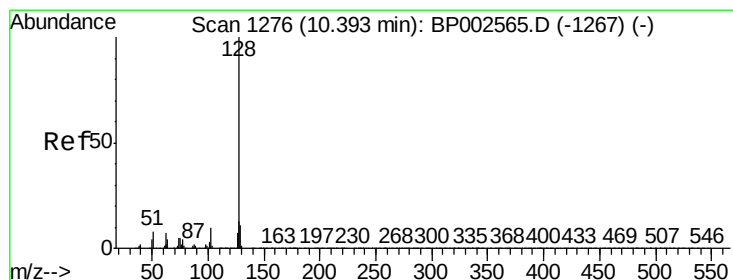
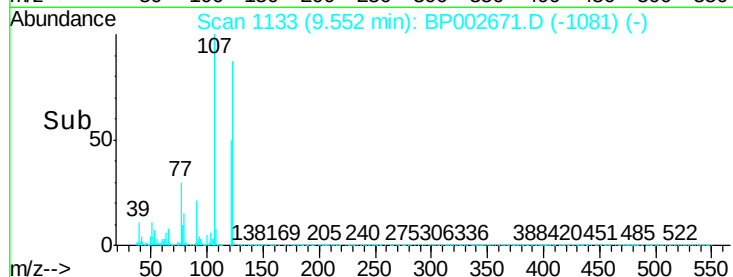
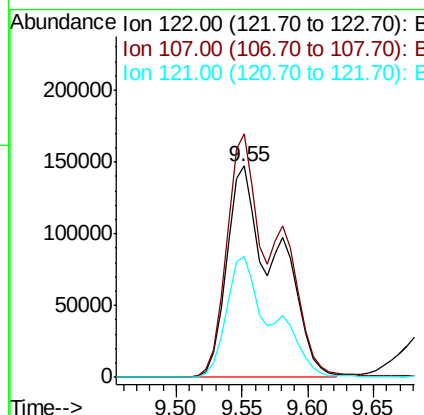
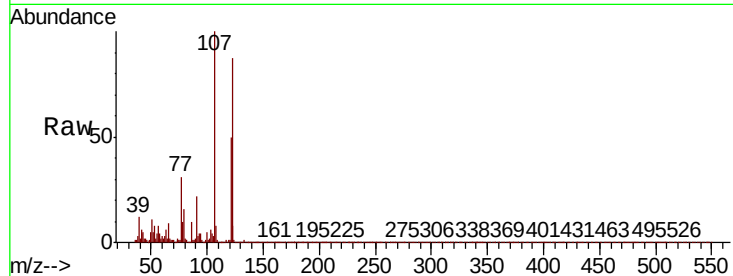
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2,4-Dimethylphenol  
Concen: 39.312 ng/ml  
RT: 9.55 min Scan# 1133  
Delta R.T. 0.01 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

Instrument :  
BNA\_P  
ClientSampleId :  
E3-41-NHL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 122     | 100   | 387334 |       |       |
| 107     | 115.3 | 95.9   | 143.9 |       |
| 121     | 57.3  | 47.0   | 70.6  |       |

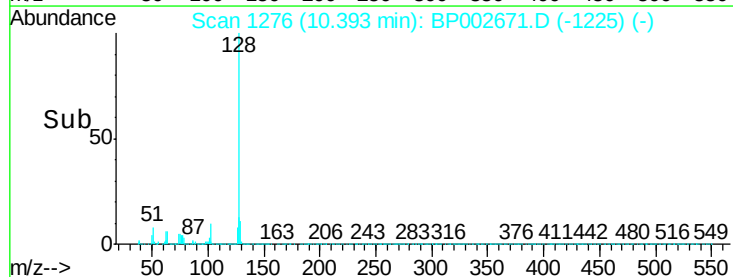
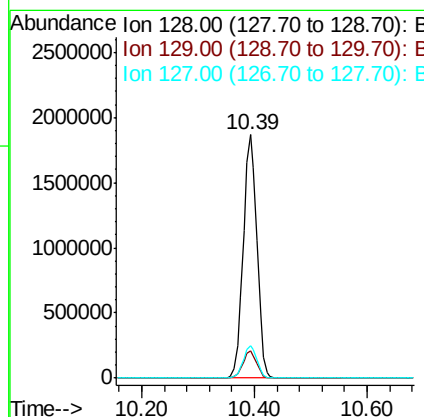
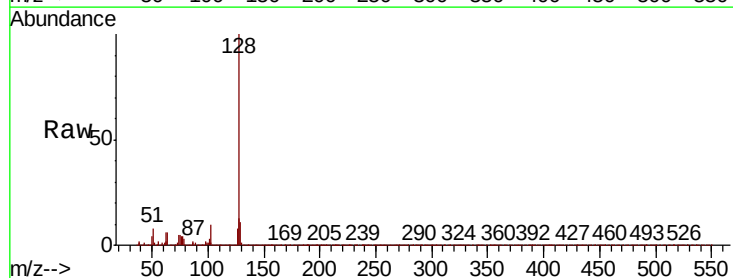
Manual Integrations  
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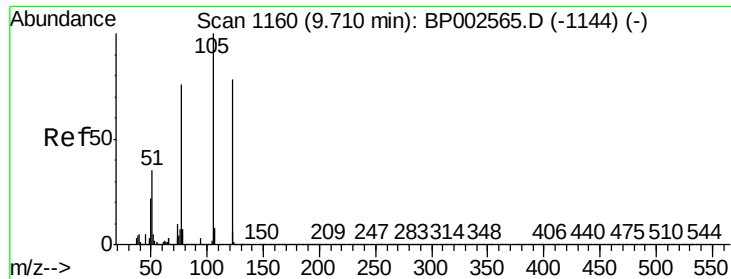
mohammad  
7/9/2020 11:00:23 AM



#31  
Naphthalene  
Concen: 86.573 ng/ml  
RT: 10.39 min Scan# 1276  
Delta R.T. 0.00 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 128     | 100   | 3180699 |       |       |
| 129     | 11.2  | 8.6     | 13.0  |       |
| 127     | 13.2  | 10.3    | 15.5  |       |





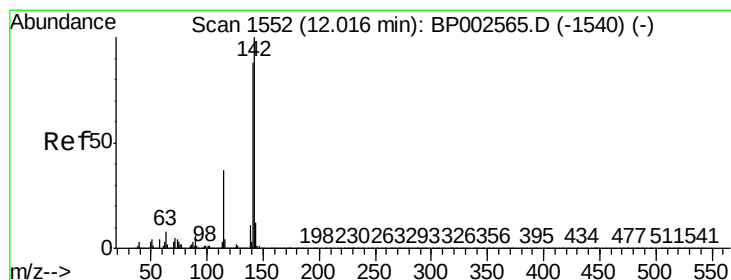
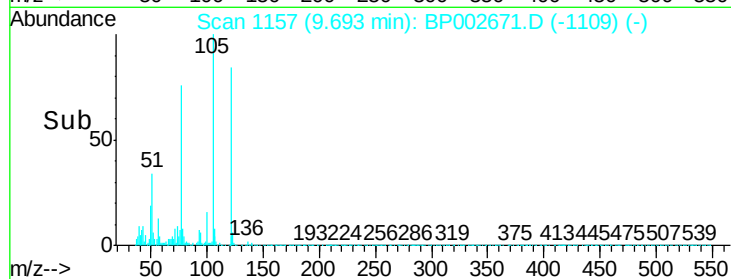
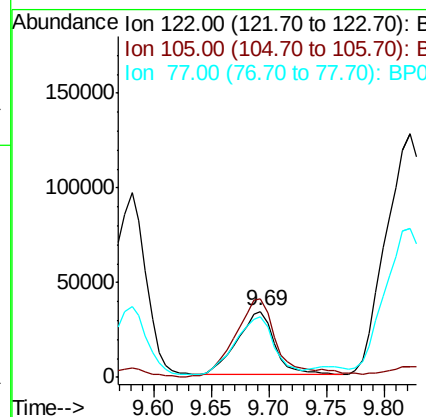
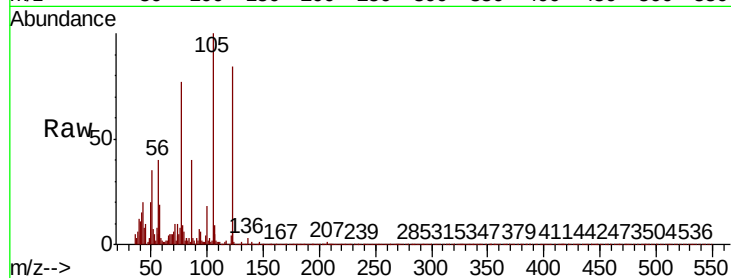
#32  
Benzoic acid  
Concen: 16.509 ng  
RT: 9.69 min Scan# 1157  
Delta R.T. -0.02 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

Instrument :  
BNA\_P  
ClientSampleId :  
E3-41-NHL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 105     | 119.2 | 106.6 | 146.6 |
| 77      | 91.3  | 76.5  | 116.5 |

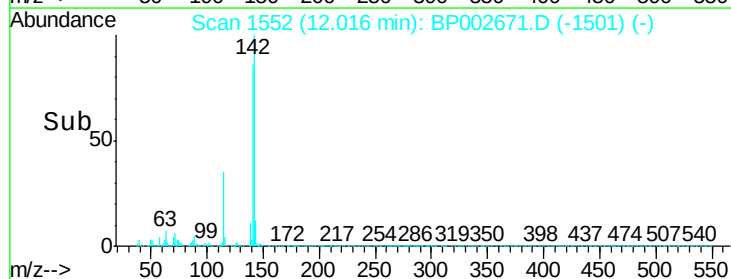
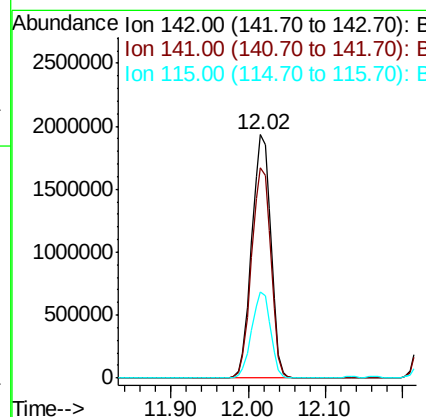
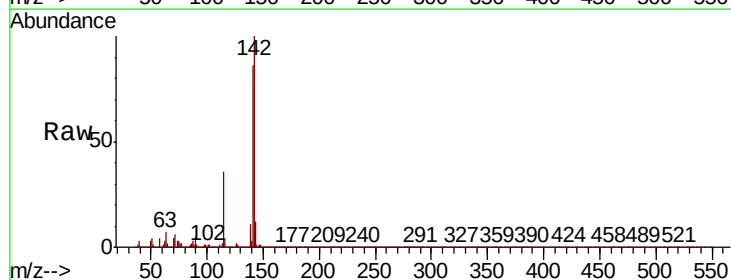
Manual Integrations  
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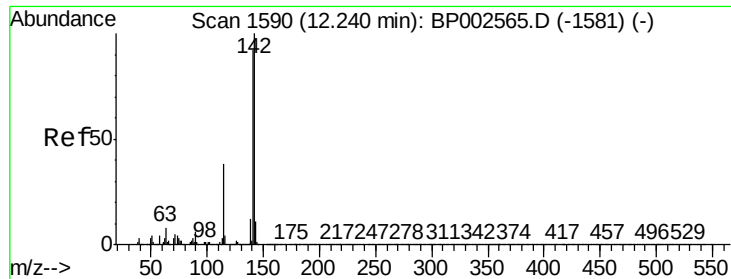


#37  
2-Methylnaphthalene  
Concen: 126.052 ng  
RT: 12.02 min Scan# 1552  
Delta R.T. 0.00 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 86.4  | 70.7  | 106.1 |
| 115     | 35.6  | 29.7  | 44.5  |







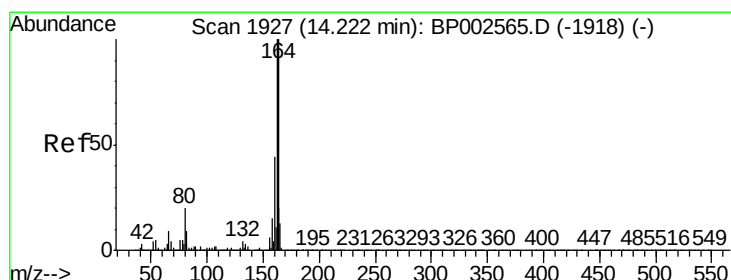
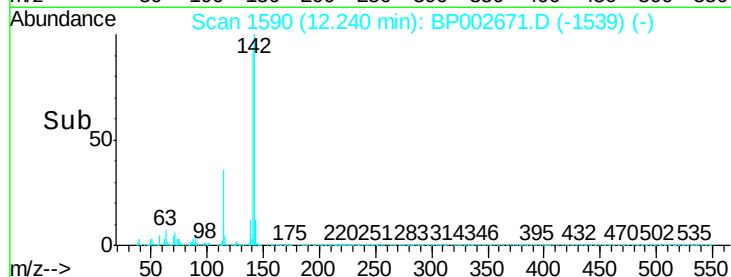
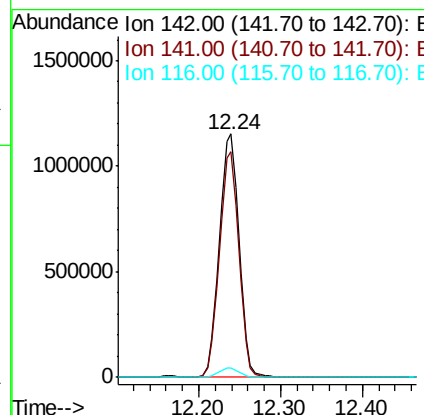
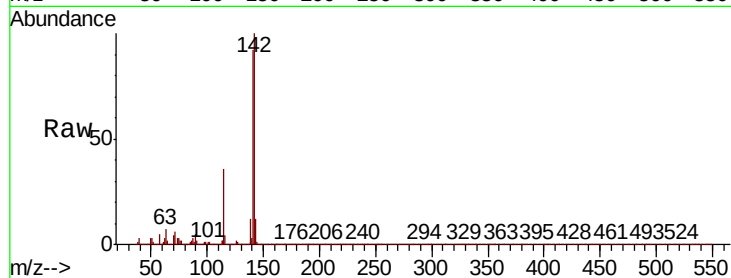
#38  
1-Methylnaphthalene  
Concen: 76.786 ng  
RT: 12.24 min Scan# 1590  
Delta R.T. 0.00 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

Instrument :  
BNA\_P  
ClientSampleId :  
E3-41-NHL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.5  | 73.4  | 110.2 |
| 116     | 3.9   | 3.2   | 4.8   |

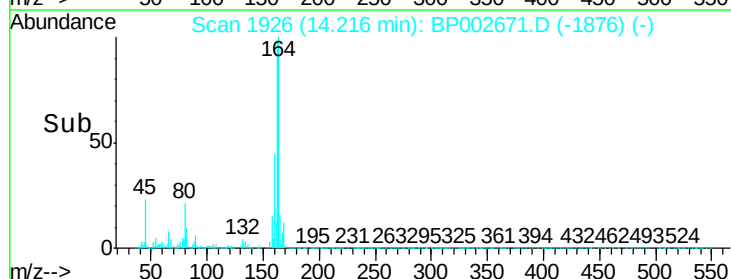
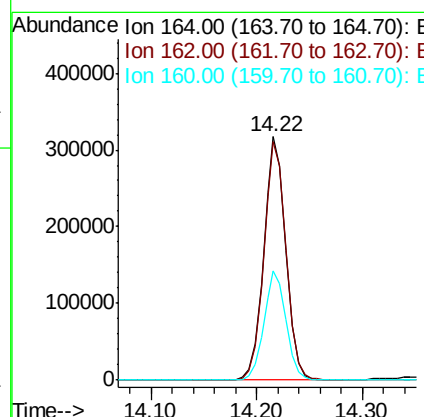
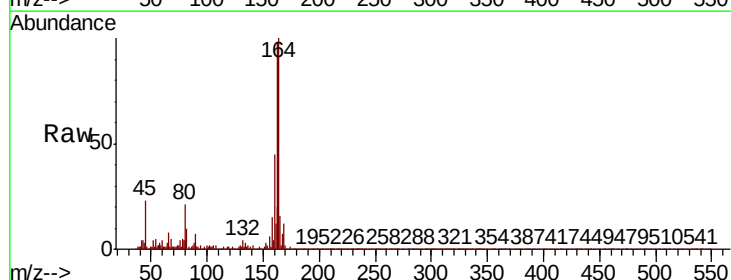
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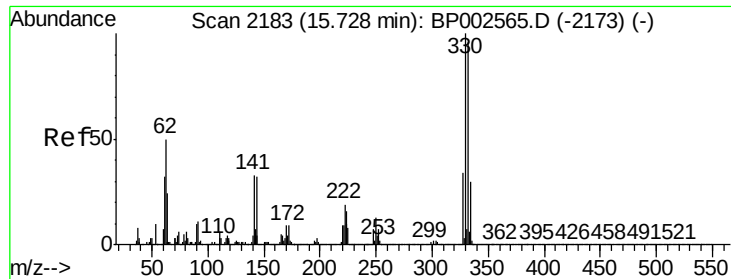
mohammad  
7/9/2020 11:00:23 AM



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.22 min Scan# 1926  
Delta R.T. -0.01 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 98.0  | 80.3  | 120.5 |
| 160     | 44.8  | 35.0  | 52.6  |





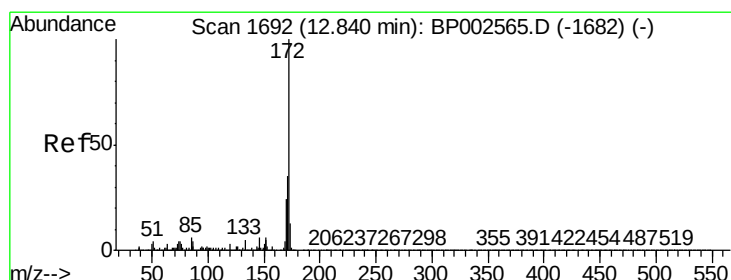
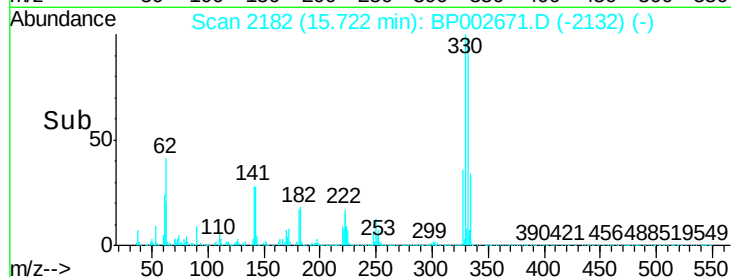
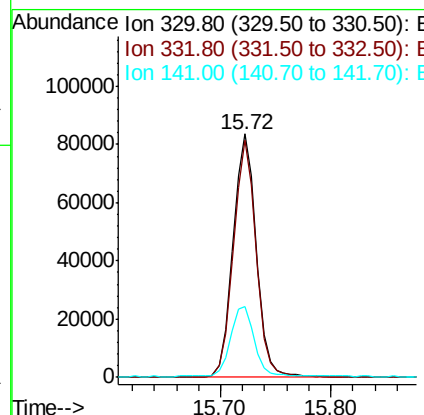
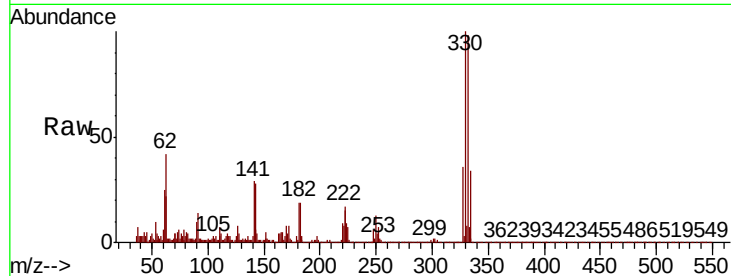
#42  
2,4,6-Tribromophenol  
Concen: 22.292 ng  
RT: 15.72 min Scan# 2182  
Delta R.T. -0.01 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

Instrument :  
BNA\_P  
ClientSampleId :  
E3-41-NHL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.3  | 77.7  | 116.5 |
| 141     | 29.4  | 29.0  | 43.6  |

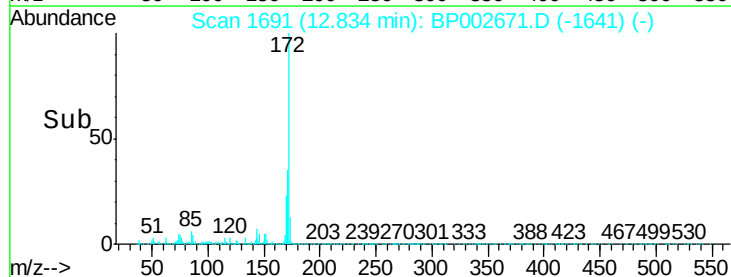
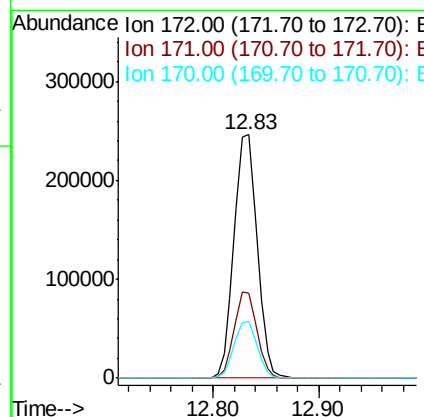
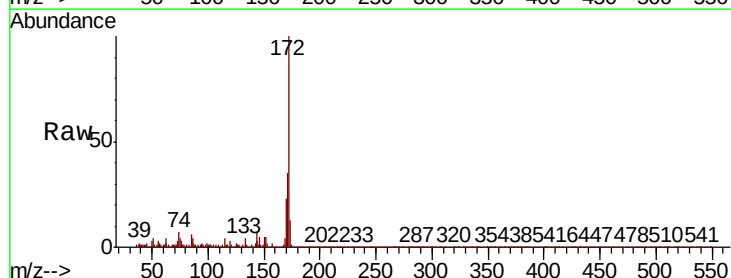
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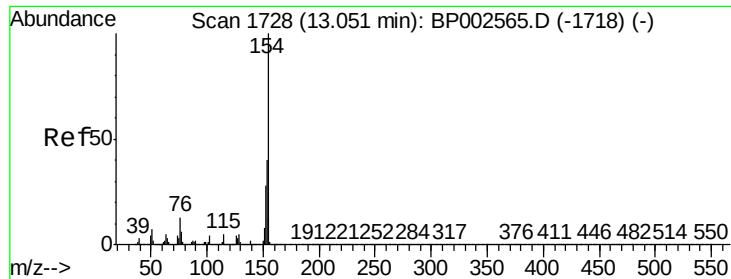
mohammad  
7/9/2020 11:00:23 AM



#45  
2-Fluorobiphenyl  
Concen: 11.989 ng  
RT: 12.83 min Scan# 1691  
Delta R.T. -0.01 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.8  | 28.0  | 42.0  |
| 170     | 23.3  | 19.0  | 28.4  |





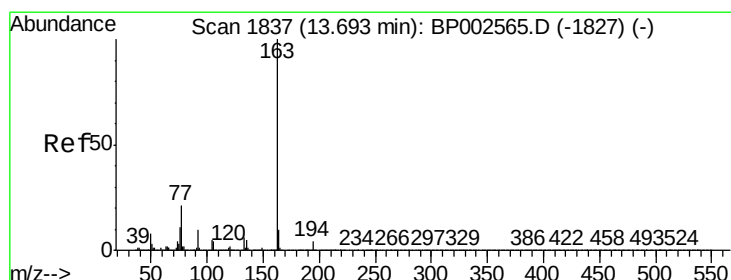
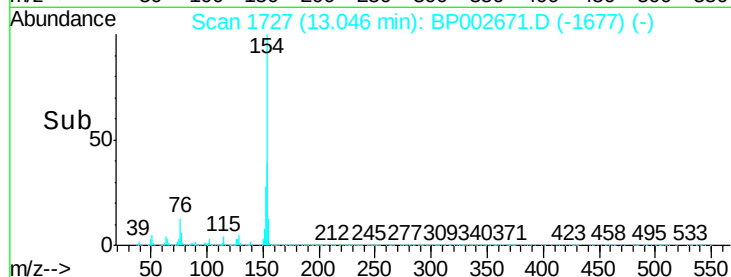
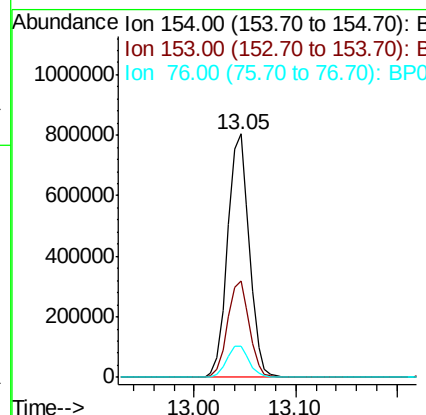
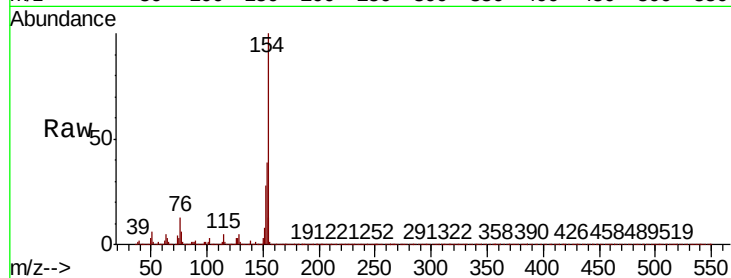
#46  
1,1'-Biphenyl  
Concen: 34.255 ng  
RT: 13.05 min Scan# 1727  
Delta R.T. -0.01 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

Instrument :  
BNA\_P  
ClientSampleId :  
E3-41-NHL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 39.5  | 20.0  | 60.0  |
| 76      | 12.7  | 0.0   | 33.0  |

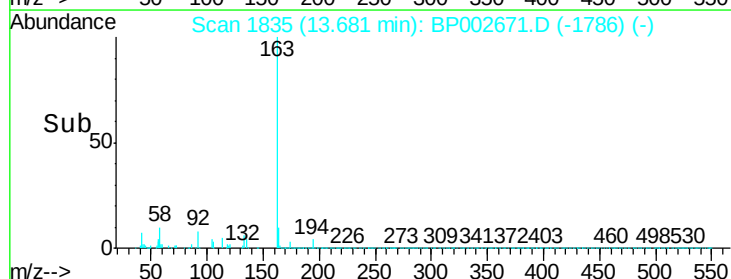
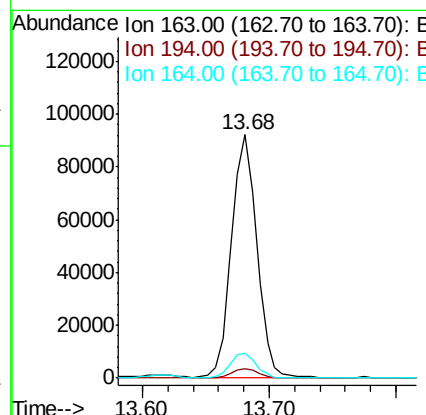
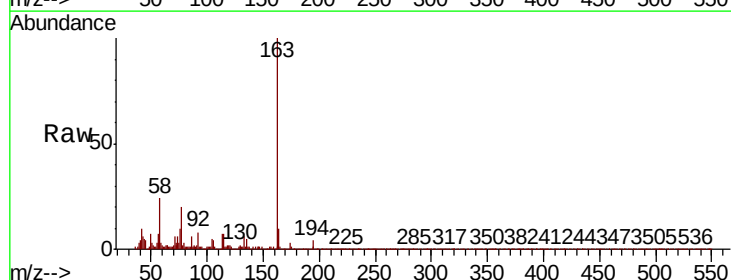
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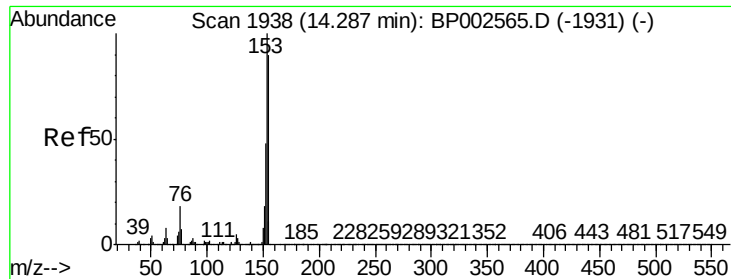
mohammad  
7/9/2020 11:00:23 AM



#50  
Dimethylphthalate  
Concen: 3.514 ng  
RT: 13.68 min Scan# 1835  
Delta R.T. -0.01 min  
Lab File: BP002671.D  
Acq: 08 Jul 2020 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.1   | 3.4   | 5.0   |
| 164     | 10.1  | 8.2   | 12.4  |





#52

Acenaphthene

Concen: 41.015 ng

RT: 14.28 min Scan# 1937

Delta R.T. -0.01 min

Lab File: BP002671.D

Acq: 08 Jul 2020 12:54

Instrument :

BNA\_P

ClientSampleId :

E3-41-NHL

Tot Ion:154 Resp: 1074931

Ion Ratio Lower Upper

154 100

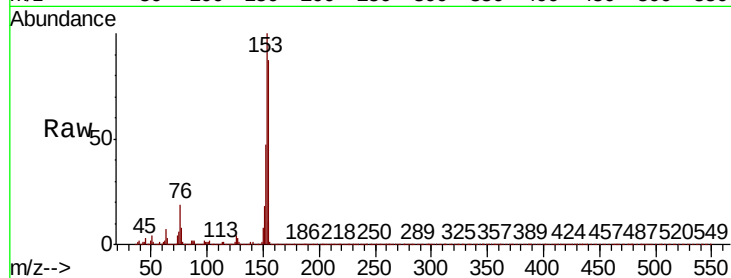
153 114.7 89.1 133.7

152 54.1 43.2 64.8

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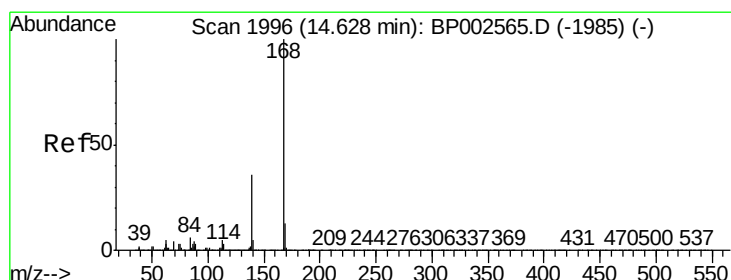
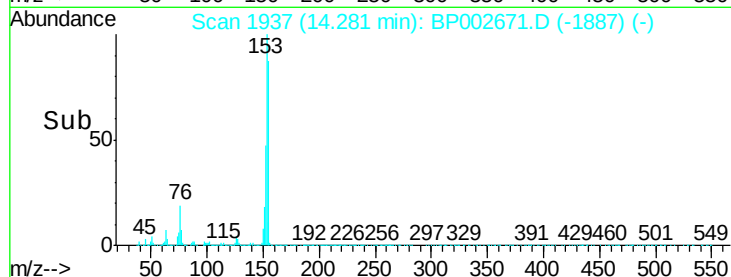
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

14.28

Time-->



#55

Dibenzofuran

Concen: 25.153 ng

RT: 14.62 min Scan# 1995

Delta R.T. -0.01 min

Lab File: BP002671.D

Acq: 08 Jul 2020 12:54

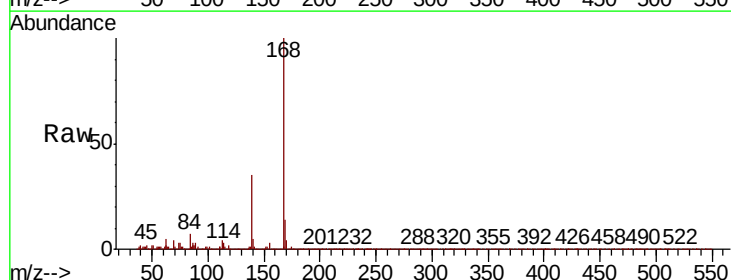
Tgt Ion:168 Resp: 1068274

Ion Ratio Lower Upper

168 100

139 34.7 29.3 43.9

169 13.7 10.6 15.8



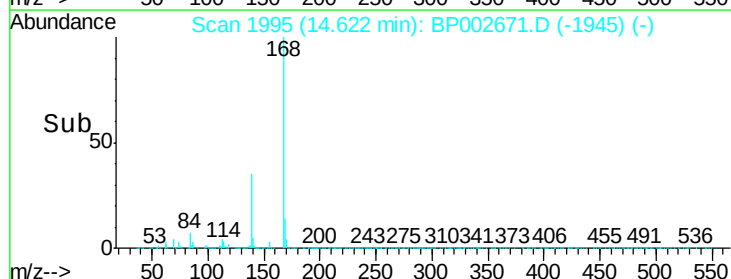
Abundance Ion 168.00 (167.70 to 168.70): E

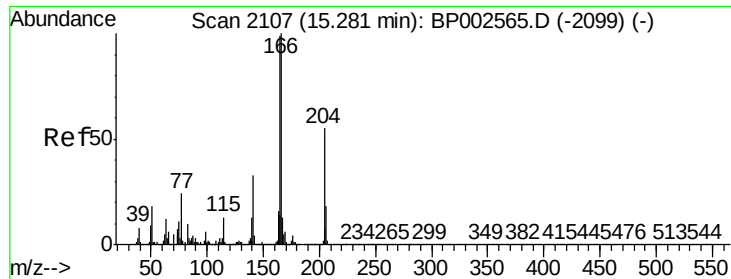
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

14.62

Time-->





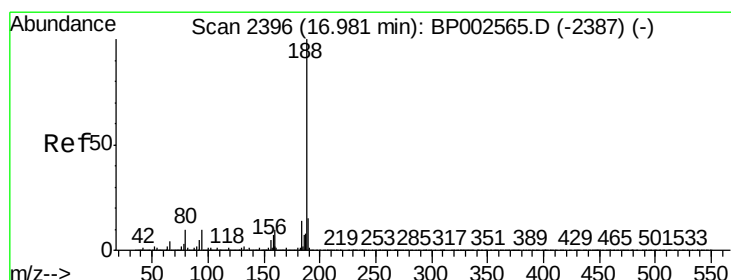
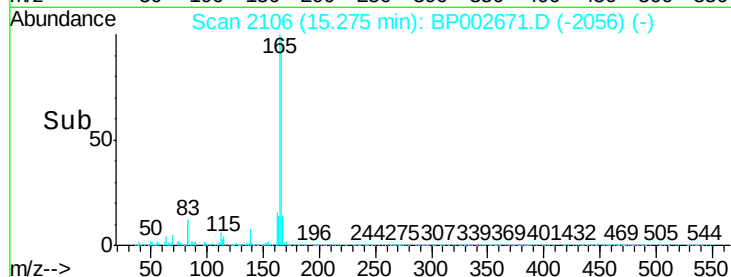
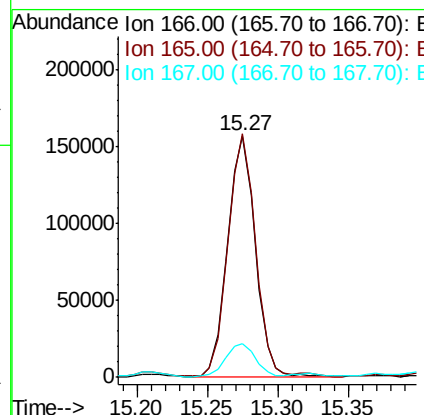
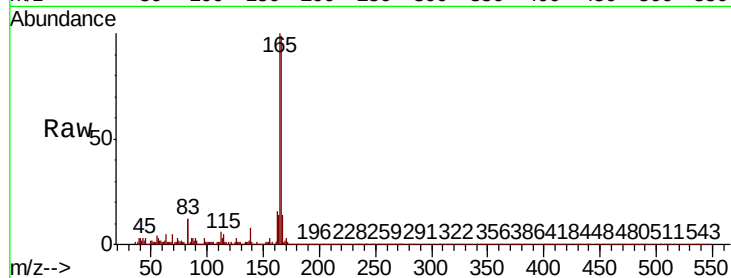
#58  
 Fluorene  
 Concen: 6.601 ng  
 RT: 15.27 min Scan# 2106  
 Delta R.T. -0.01 min  
 Lab File: BP002671.D  
 Acq: 08 Jul 2020 12:54

Instrument :  
 BNA\_P  
 ClientSampleId :  
 E3-41-NHL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 100.8 | 79.1  | 118.7 |
| 167     | 14.1  | 10.8  | 16.2  |

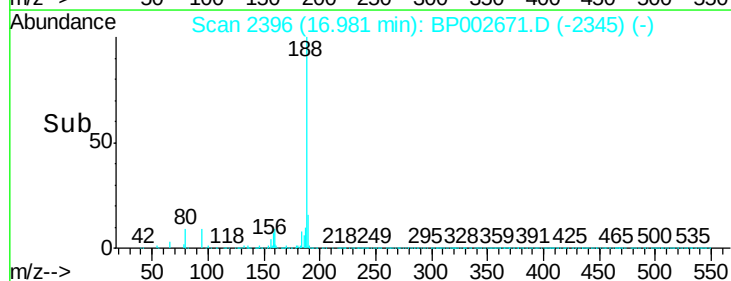
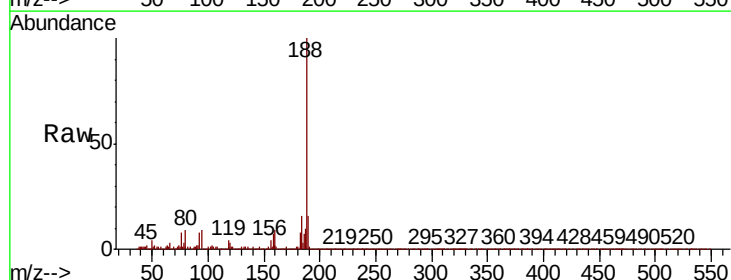
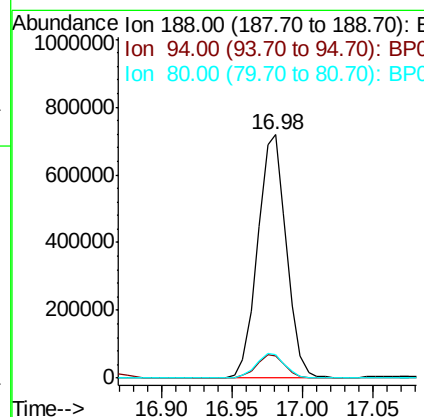
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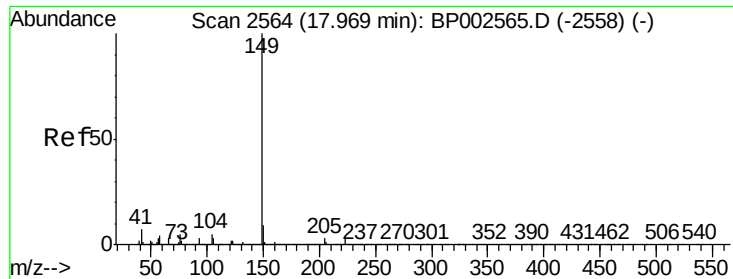
mohammad  
 7/9/2020 11:00:23 AM



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 16.98 min Scan# 2396  
 Delta R.T. 0.00 min  
 Lab File: BP002671.D  
 Acq: 08 Jul 2020 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.1   | 7.8   | 11.6  |
| 80      | 9.4   | 8.2   | 12.4  |





#74

Di-n-butylphthalate

Concen: 2.324 ng

RT: 17.97 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BP002671.D

Acq: 08 Jul 2020 12:54

Instrument :

BNA\_P

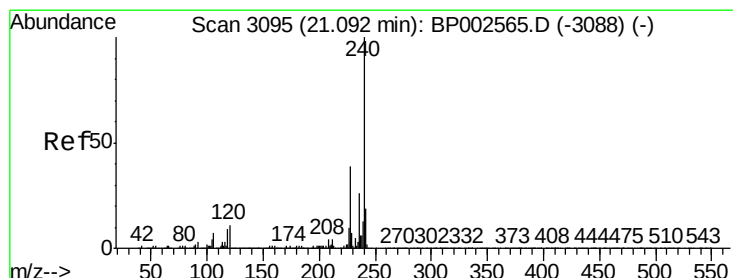
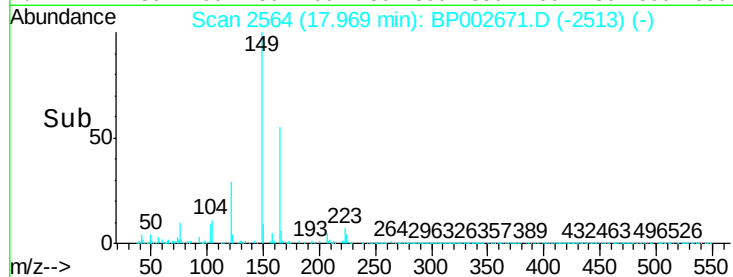
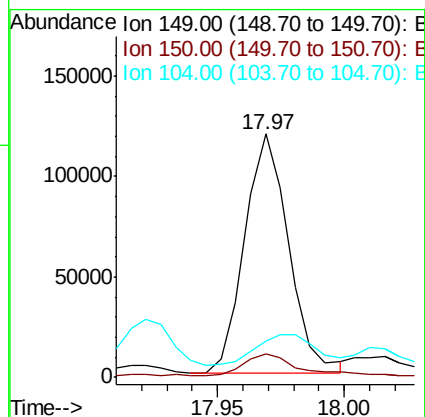
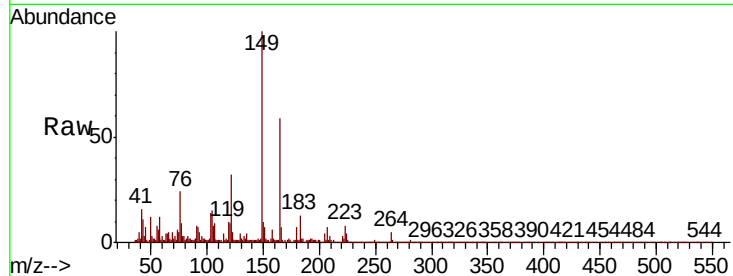
ClientSampleId :

E3-41-NHL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 145356 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 150       | 9.5   | 7.3   | 10.9   |
| 104       | 15.1  | 4.2   | 6.4    |

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#76

Chrysene-d12

Concen: 20.000 ng

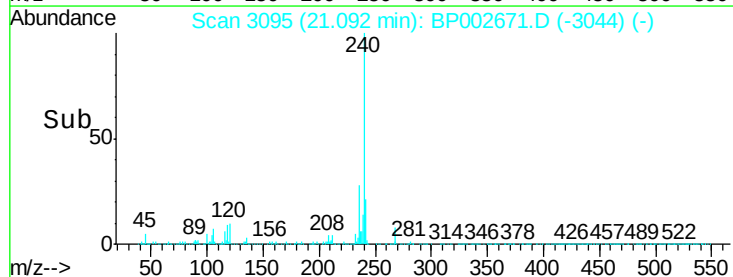
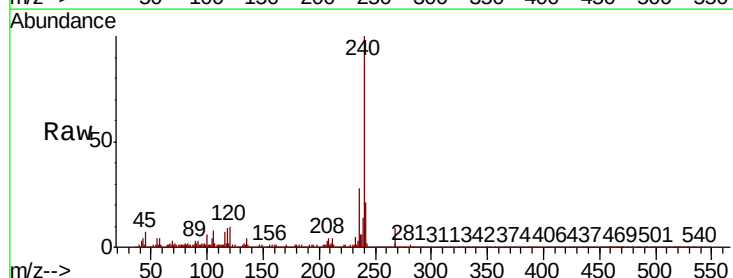
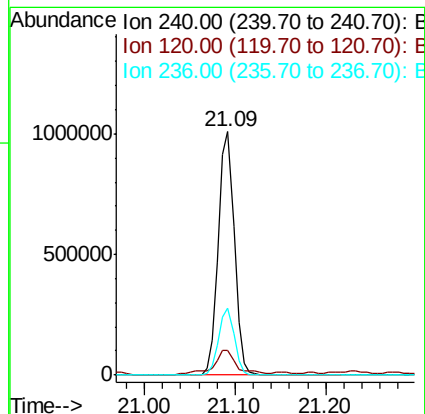
RT: 21.09 min Scan# 3095

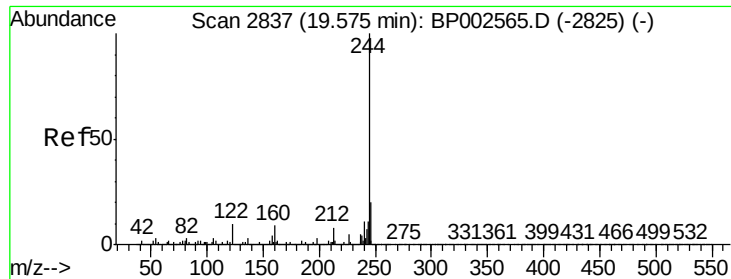
Delta R.T. 0.00 min

Lab File: BP002671.D

Acq: 08 Jul 2020 12:54

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 240   | Resp: | 1228200 |
| Ion Ratio | Lower | Upper |         |
| 240       | 100   |       |         |
| 120       | 9.9   | 8.6   | 13.0    |
| 236       | 27.6  | 20.8  | 31.2    |





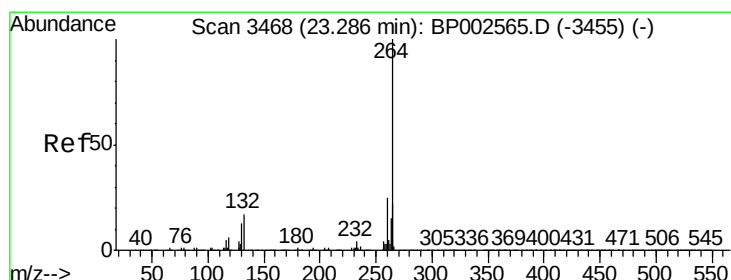
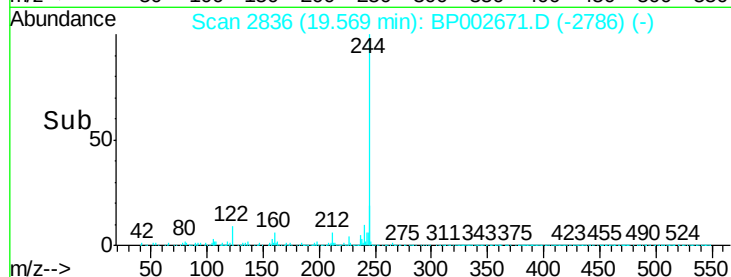
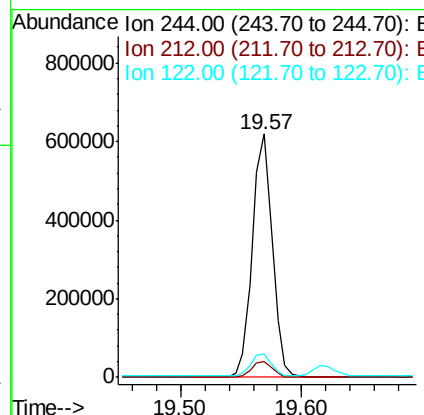
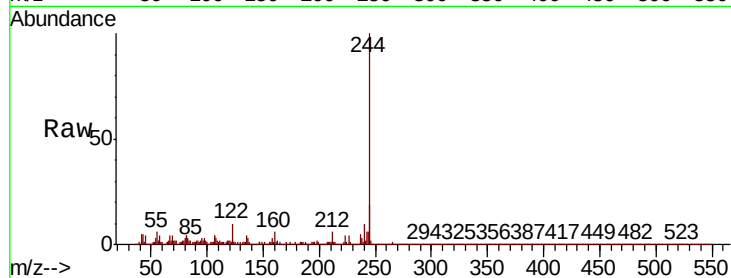
#79  
 Terphenyl-d14  
 Concen: 12.683 ng  
 RT: 19.57 min Scan# 2836  
 Delta R.T. -0.01 min  
 Lab File: BP002671.D  
 Acq: 08 Jul 2020 12:54

Instrument :  
 BNA\_P  
 ClientSampleId :  
 E3-41-NHL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.5   | 6.5   | 9.7#  |
| 122     | 9.8   | 7.9   | 11.9  |

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#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 23.29 min Scan# 3468  
 Delta R.T. 0.00 min  
 Lab File: BP002671.D  
 Acq: 08 Jul 2020 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.4  | 19.7  | 29.5  |
| 265     | 22.8  | 17.6  | 26.4  |

