

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM032317\  
 Data File : BM009366.D  
 Acq On : 24 Mar 2017 05:34  
 Operator : SJ/MA  
 Sample : I2358-01  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0BH1

Manual Integrations  
 APPROVED

mohammad  
 3/24/2017 4:09:57 PM

Quant Time: Mar 24 06:41:28 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032317MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 24 04:55:42 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 164627   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.66 | 136  | 627862   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.50 | 164  | 367898   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.24 | 188  | 871870   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.42 | 240  | 1206176  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.74 | 264  | 1145328  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.33  | 96  | 22011   | 5.10  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.01  | 99  | 109584  | 7.36  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.19  | 67  | 336820  | 31.73 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.39  | 132 | 255240  | 25.46 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.55  | 113 | 180507  | 16.24 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.02  | 128 | 158841  | 34.41 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.74  | 143 | 174026  | 34.77 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.27 | 165 | 308199  | 31.30 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.80 | 131 | 11132   | 0.98  | ng/ul | 0.01 |
| 43) Dimethylphthalate-d6       | 13.90 | 166 | 1059457 | 40.95 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.19 | 160 | 1254394 | 38.65 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.69 | 143 | 31292   | 6.56  | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.49 | 176 | 977905  | 41.20 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.61 | 200 | 156870  | 28.47 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.34 | 188 | 1580249 | 38.00 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.64 | 212 | 1915525 | 37.46 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.60 | 264 | 1968259 | 37.31 | ng/ul | 0.00 |

| Target Compounds               |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 10) 2-Chlorophenol             | 7.42  | 128 | 18288  | 1.71  | ng/ul# | 70     |
| 27) 2,4-Dichlorophenol         | 10.30 | 162 | 39023m | 3.95  | ng/ul  |        |
| 36) 1,2,4,5-Tetrachlorobenzene | 12.68 | 216 | 164415 | 13.30 | ng/ul  | 96     |
| 39) 2,4,5-Trichlorophenol      | 12.99 | 196 | 18943  | 2.43  | ng/ul  | 97     |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.29 | 216 | 157570 | 12.29 | ng/uL  | 97     |

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

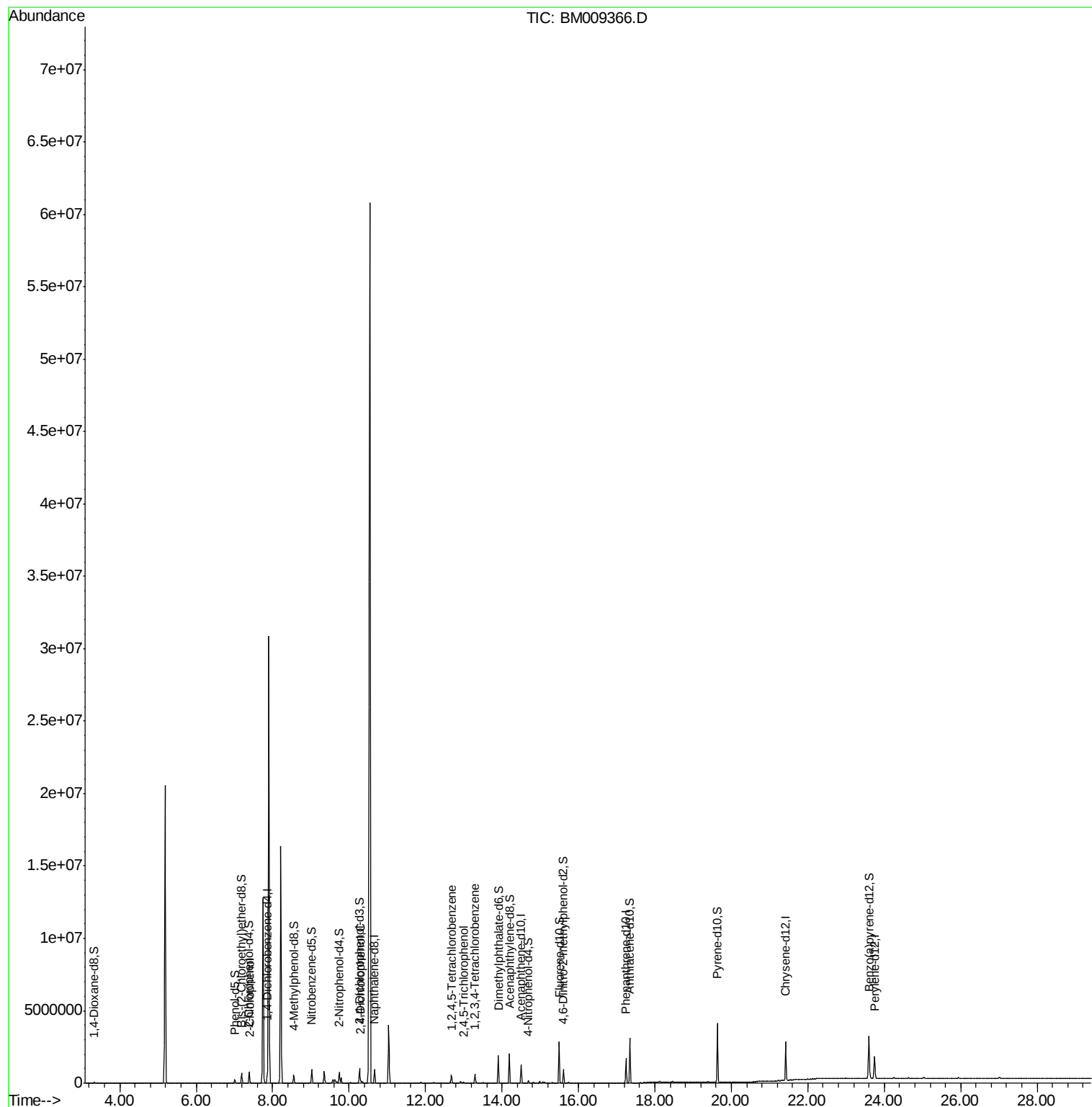
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM032317\  
Data File : BM009366.D  
Acq On : 24 Mar 2017 05:34  
Operator : SJ/MA  
Sample : I2358-01  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

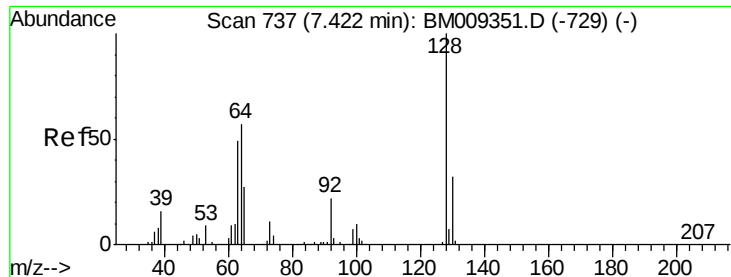
Instrument :  
BNA\_M  
ClientSampleId :  
C0BH1

Manual Integrations  
APPROVED

mohammad  
3/24/2017 4:09:57 PM

Quant Time: Mar 24 06:41:28 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032317MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Mar 24 04:55:42 2017  
Response via : Initial Calibration





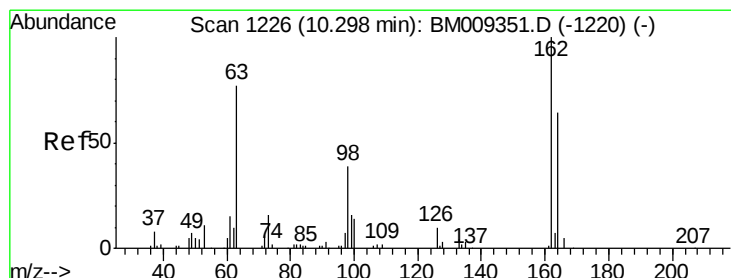
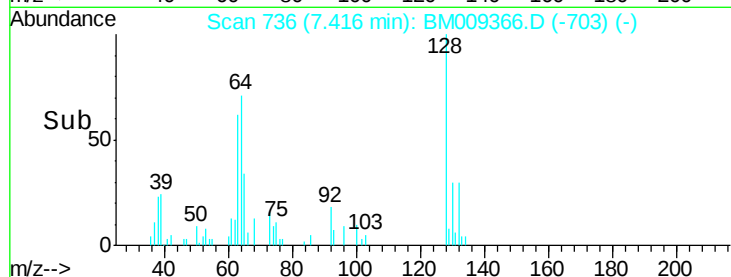
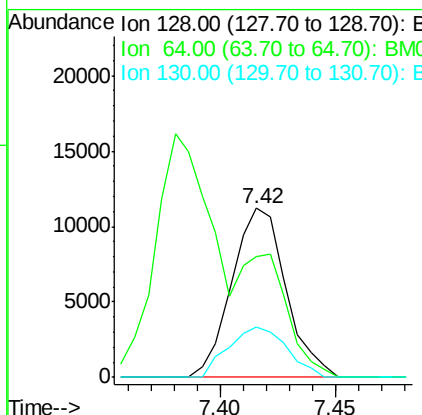
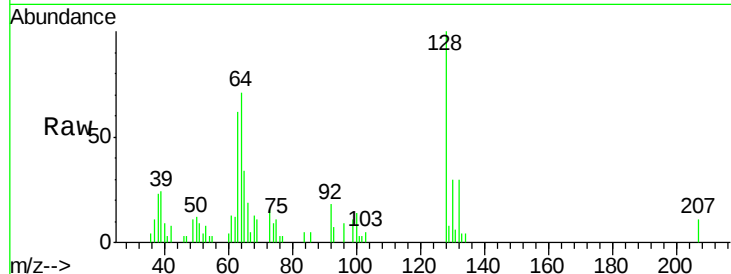
#10  
2-Chlorophenol  
Concen: 1.71 ng/ul  
RT: 7.42 min Scan# 736  
Delta R.T. -0.01 min  
Lab File: BM009366.D  
Acq: 24 Mar 2017 05:34

Instrument :  
BNA\_M  
ClientSampleId :  
C0BH1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 64      | 71.2  | 31.9  | 47.9# |
| 130     | 29.7  | 25.6  | 38.4  |

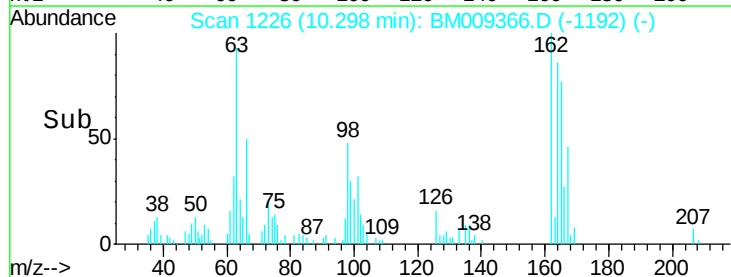
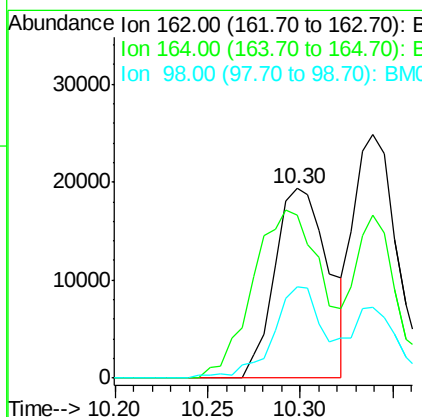
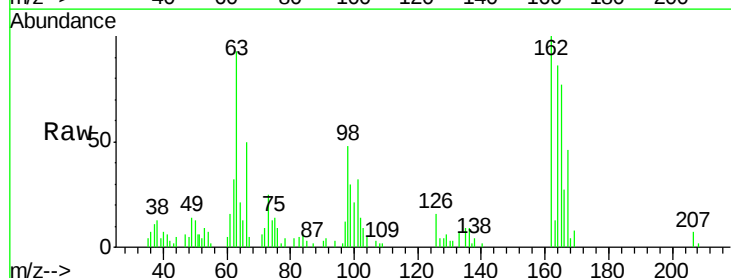
Manual Integrations  
APPROVED

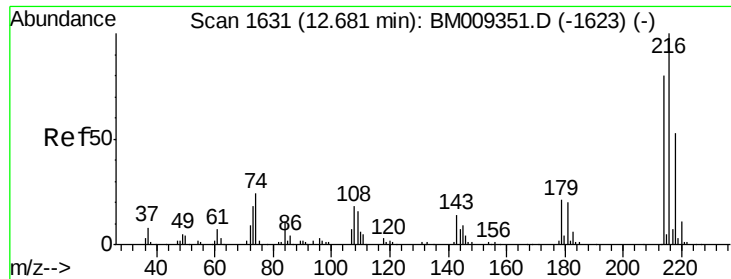
mohammad  
3/24/2017 4:09:57 PM



#27  
2,4-Dichlorophenol  
Concen: 3.95 ng/ul m  
RT: 10.30 min Scan# 1226  
Delta R.T. -0.00 min  
Lab File: BM009366.D  
Acq: 24 Mar 2017 05:34

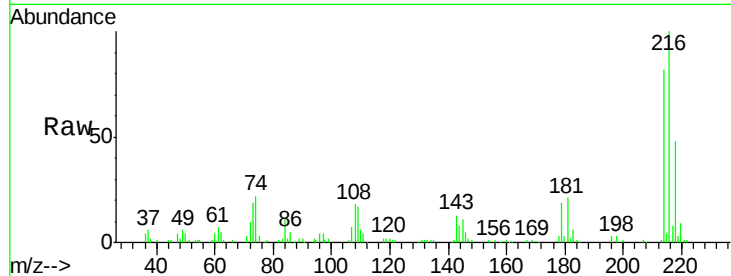
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 86.2  | 52.1  | 78.1# |
| 98      | 48.0  | 28.4  | 42.6# |





#36  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 13.30 ng/ul  
 RT: 12.68 min Scan# 1631  
 Delta R.T. -0.00 min  
 Lab File: BM009366.D  
 Acq: 24 Mar 2017 05:34

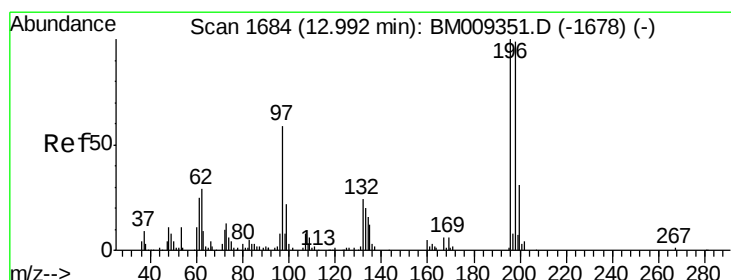
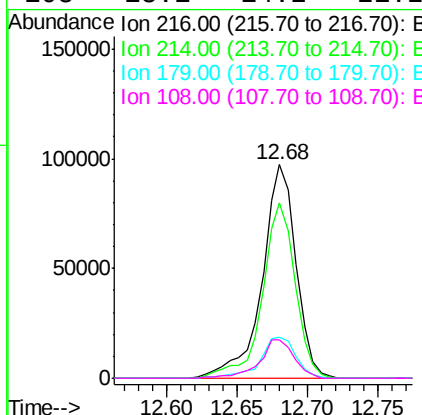
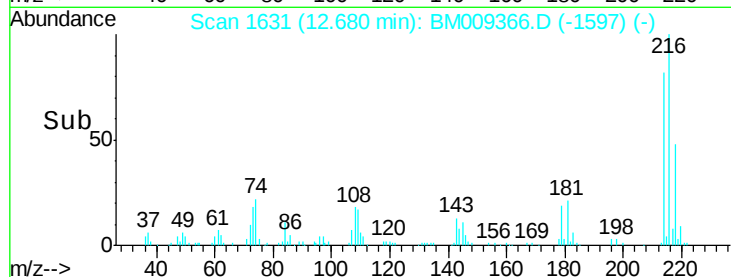
Instrument :  
 BNA\_M  
 ClientSampled :  
 C0BH1



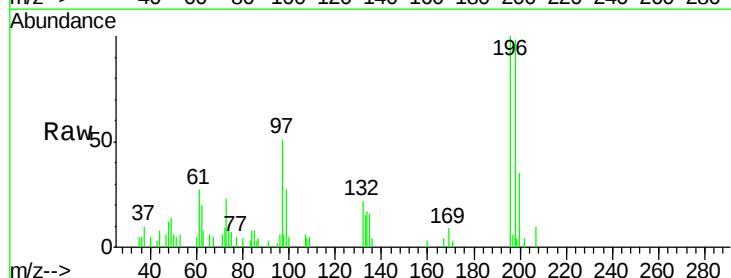
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 216     | 100   |       |       |
| 214     | 82.1  | 62.5  | 93.7  |
| 179     | 19.4  | 18.2  | 27.2  |
| 108     | 18.1  | 14.2  | 21.2  |

Manual Integrations  
 APPROVED

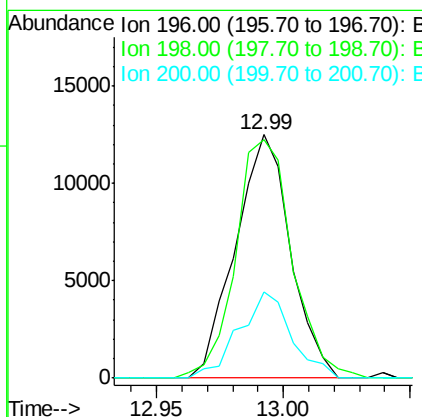
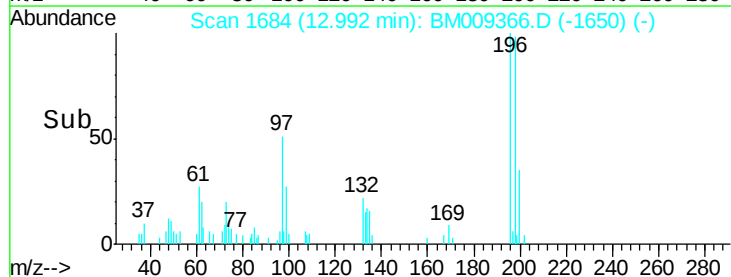
mohammad  
 3/24/2017 4:09:57 PM

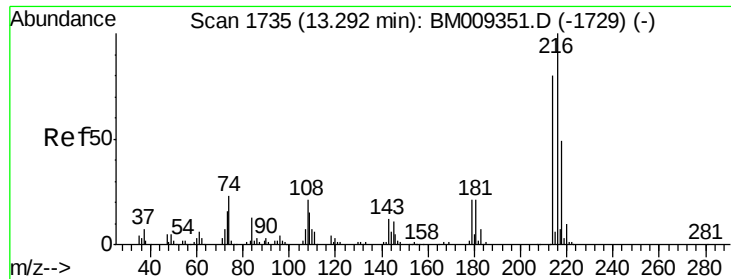


#39  
 2,4,5-Trichlorophenol  
 Concen: 2.43 ng/ul  
 RT: 12.99 min Scan# 1684  
 Delta R.T. -0.00 min  
 Lab File: BM009366.D  
 Acq: 24 Mar 2017 05:34



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 97.9  | 76.9  | 115.3 |
| 200     | 35.4  | 25.0  | 37.4  |





#72

1,2,3,4-Tetrachlorobenzene

Concen: 12.29 ng/uL

RT: 13.29 min Scan# 1735

Delta R.T. -0.00 min

Lab File: BM009366.D

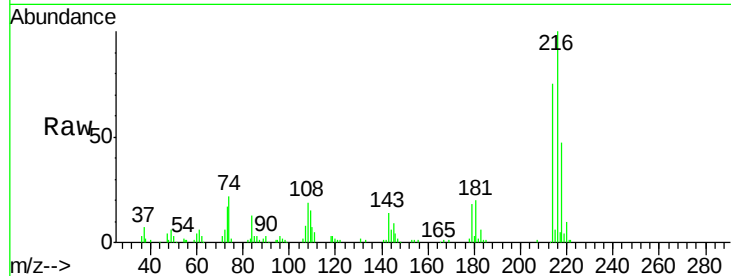
Acq: 24 Mar 2017 05:34

Instrument :

BNA\_M

ClientSampleId :

C0BH1



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 216   | Resp: | 157570 |
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 75.3  | 62.5  | 93.7   |
| 218       | 46.9  | 38.4  | 57.6   |

Manual Integrations  
APPROVED

mohammad  
3/24/2017 4:09:57 PM

