

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM051316\  
 Data File : BM005453.D  
 Acq On : 14 May 2016 06:58  
 Operator : UM/SJ  
 Sample : H2834-03MSD  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 H4002MSD

Manual Integrations  
 APPROVED

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 5/16/2016 7:01:45 PM

Quant Time: May 16 04:29:03 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM050516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat May 14 00:15:57 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.75  | 152  | 43867    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.53 | 136  | 207205   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.39 | 164  | 139326   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.14 | 188  | 365368   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.33 | 240  | 539904   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.60 | 264  | 535616   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 1271   | 1.36  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.93  | 99  | 24392  | 6.13  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.08  | 67  | 66053  | 29.10 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.29  | 132 | 71708  | 23.86 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.46  | 113 | 44390  | 13.50 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.91  | 128 | 45414  | 30.70 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.63  | 143 | 49552  | 29.58 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.17 | 165 | 82257  | 26.42 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.71 | 131 | 7166   | 1.91  | ng/ul | 0.03 |
| 43) Dimethylphthalate-d6       | 13.80 | 166 | 352494 | 31.56 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.08 | 160 | 407690 | 31.12 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.64 | 143 | 9088m  | 4.46  | ng/ul | 0.02 |
| 57) Fluorene-d10               | 15.39 | 176 | 313393 | 32.50 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.52 | 200 | 51368  | 24.99 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.24 | 188 | 543327 | 33.64 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.54 | 212 | 720300 | 28.90 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.46 | 264 | 797098 | 33.62 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |       | Qvalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 6) Phenol                      | 6.96  | 94  | 27811  | 6.76  | ng/ul | 98     |
| 10) 2-Chlorophenol             | 7.32  | 128 | 74504  | 24.24 | ng/ul | 96     |
| 15) N-Nitroso-di-n-propylamine | 8.55  | 70  | 80908  | 31.78 | ng/ul | 98     |
| 33) 4-Chloro-3-methylphenol    | 11.84 | 107 | 101938 | 26.67 | ng/ul | 99     |
| 49) Acenaphthene               | 14.46 | 153 | 295135 | 32.32 | ng/ul | 99     |
| 52) 4-Nitrophenol              | 14.65 | 109 | 8595   | 5.07  | ng/ul | 96     |
| 54) 2,4-Dinitrotoluene         | 14.77 | 165 | 117093 | 35.68 | ng/ul | 99     |
| 68) Pentachlorophenol          | 16.80 | 266 | 51388  | 23.54 | ng/ul | 97     |
| 77) Pyrene                     | 19.57 | 202 | 917137 | 29.29 | ng/ul | 99     |

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

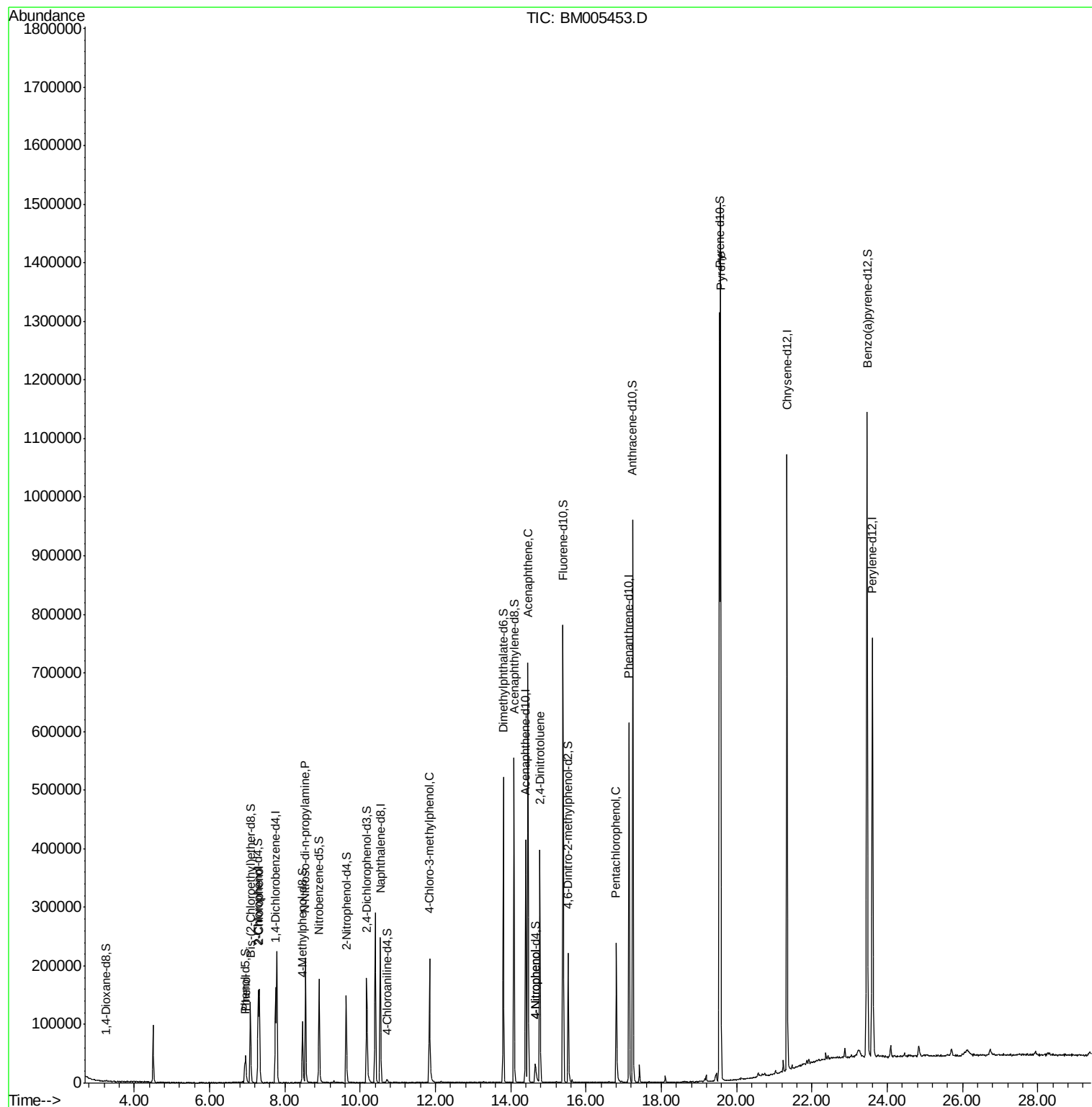
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM051316\  
Data File : BM005453.D  
Acq On : 14 May 2016 06:58  
Operator : UM/SJ  
Sample : H2834-03MSD  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

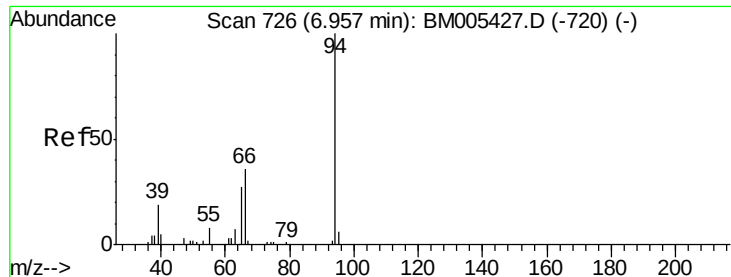
Instrument :  
BNA\_M  
ClientSampleId :  
H4002MSD

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Quant Time: May 16 04:29:03 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM050516.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat May 14 00:15:57 2016  
Response via : Initial Calibration





#6

Phenol

Concen: 6.76 ng/ul

RT: 6.96 min Scan# 726

Delta R.T. -0.00 min

Lab File: BM005453.D

Acq: 14 May 2016 06:58

Instrument :

BNA\_M

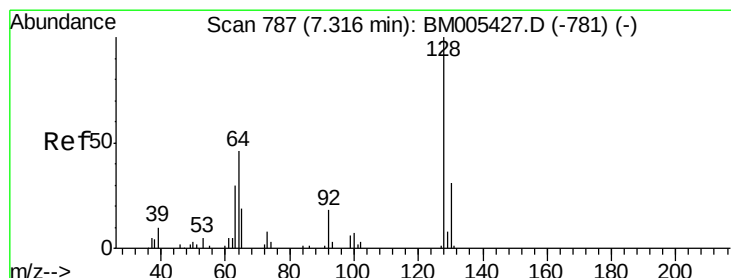
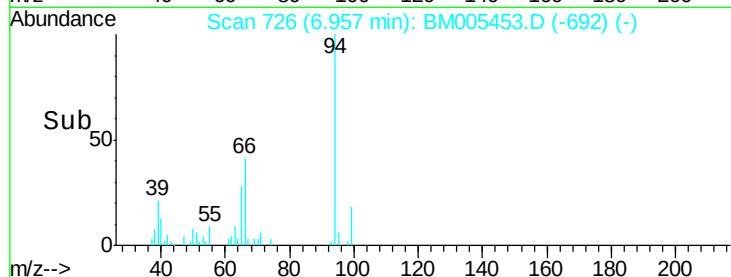
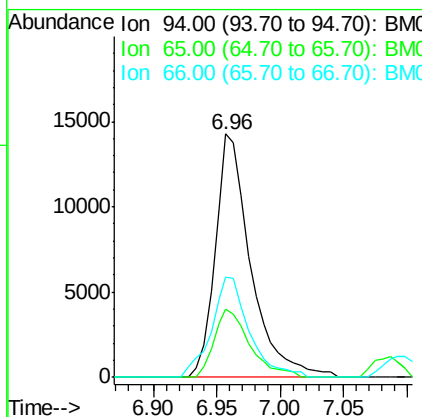
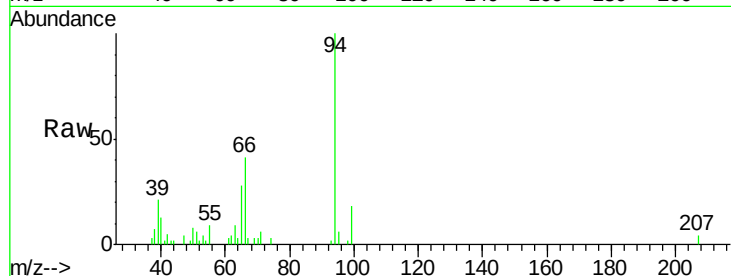
ClientSampleId :

H4002MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 27811 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 28.0  | 22.7  | 34.1  |
| 66       | 41.0  | 31.7  | 47.5  |

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#10

2-Chlorophenol

Concen: 24.24 ng/ul

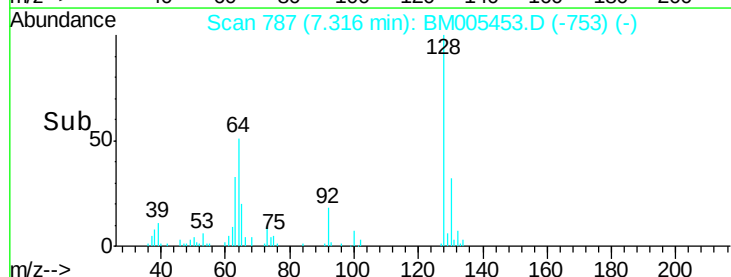
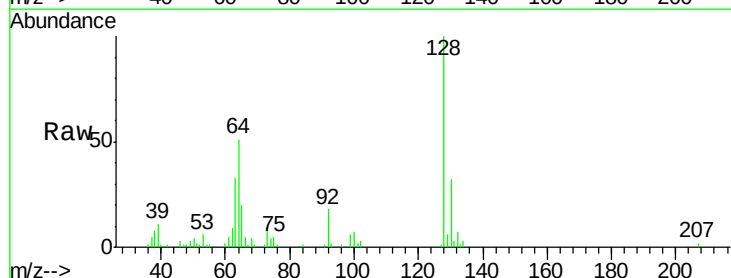
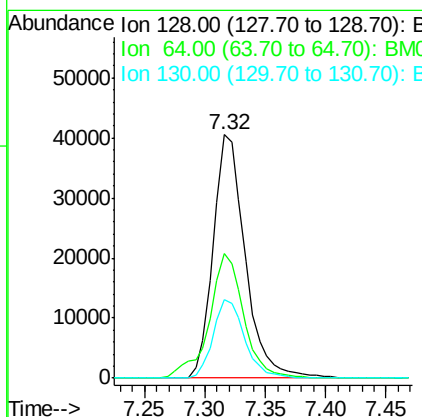
RT: 7.32 min Scan# 787

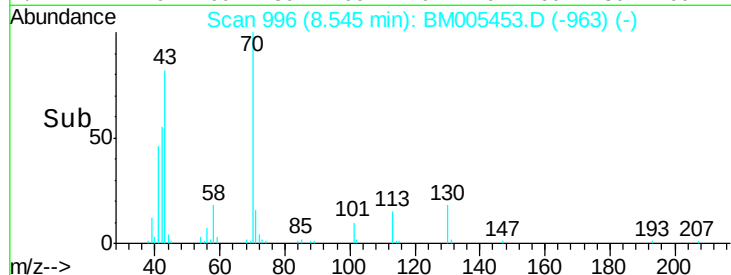
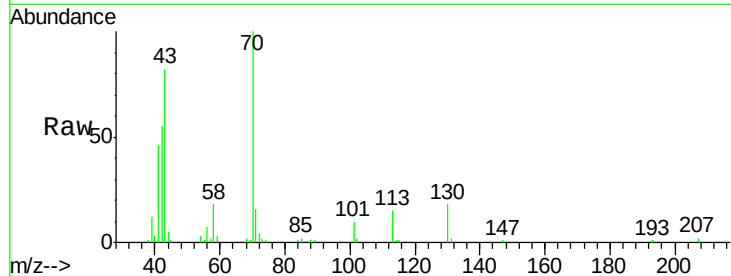
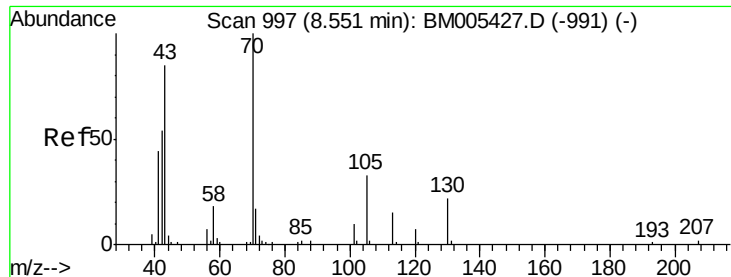
Delta R.T. -0.00 min

Lab File: BM005453.D

Acq: 14 May 2016 06:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 74504 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 64       | 51.1  | 37.8  | 56.8  |
| 130      | 32.2  | 24.9  | 37.3  |





#15

N-Nitroso-di-n-propylamine

Concen: 31.78 ng/ul

RT: 8.55 min Scan# 996

Delta R.T. -0.01 min

Lab File: BM005453.D

Acq: 14 May 2016 06:58

Instrument :

BNA\_M

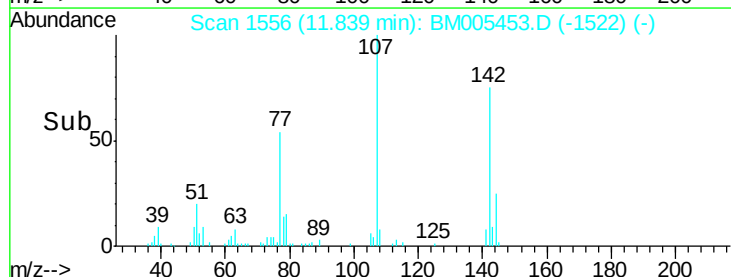
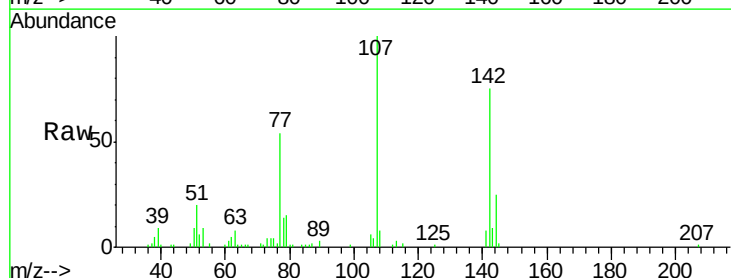
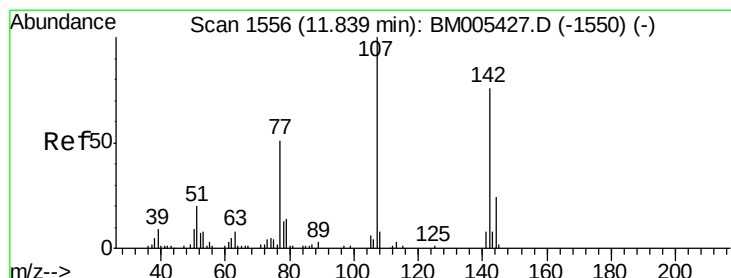
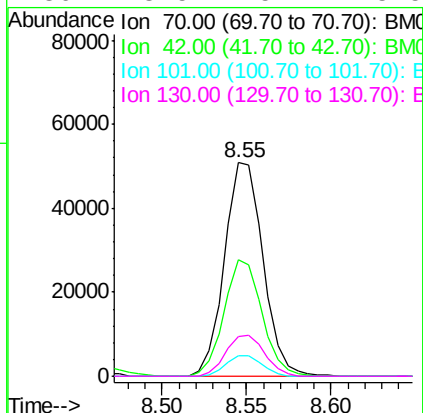
ClientSampleId :

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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 54.5  | 42.8  | 64.2  |
| 101     | 9.7   | 7.8   | 11.6  |
| 130     | 18.5  | 15.7  | 23.5  |



#33

4-Chloro-3-methylphenol

Concen: 26.67 ng/ul

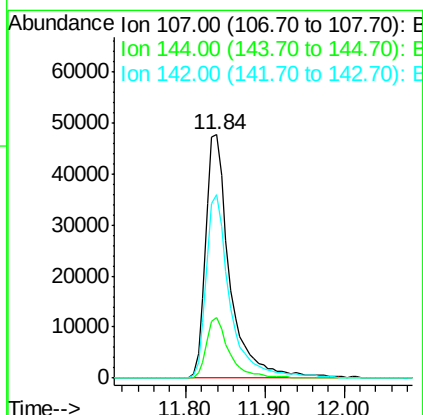
RT: 11.84 min Scan# 1556

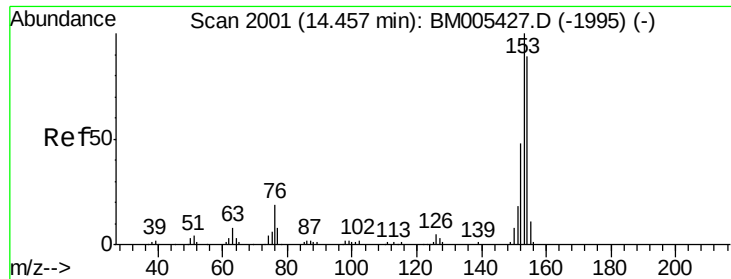
Delta R.T. -0.00 min

Lab File: BM005453.D

Acq: 14 May 2016 06:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 144     | 24.8  | 19.3  | 28.9  |
| 142     | 75.5  | 60.8  | 91.2  |





#49

Acenaphthene

Concen: 32.32 ng/ul

RT: 14.46 min Scan# 2001

Delta R.T. -0.00 min

Lab File: BM005453.D

Acq: 14 May 2016 06:58

Instrument :

BNA\_M

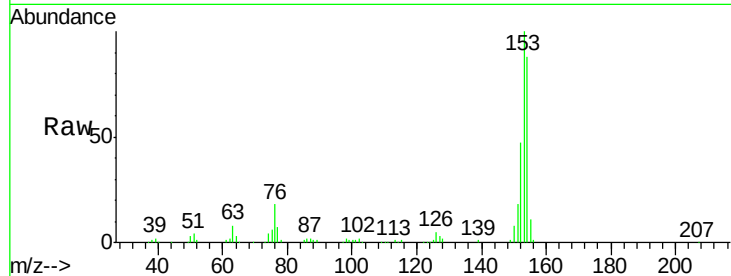
ClientSampleId :

H4002MSD

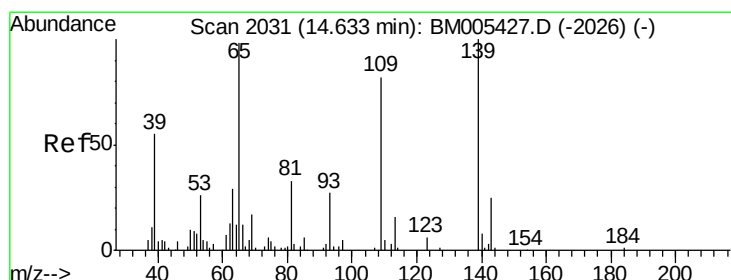
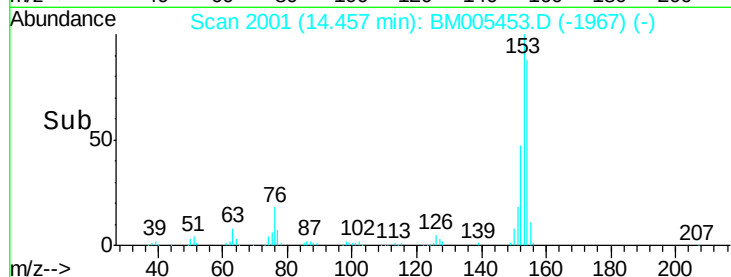
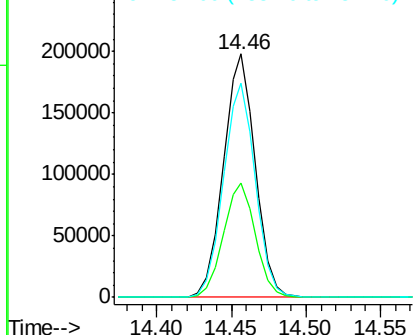
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 153  | Resp: | 295135 |
| Ion Ratio |      | Lower | Upper  |
| 153       | 100  |       |        |
| 152       | 47.2 | 38.9  | 58.3   |
| 154       | 87.8 | 70.3  | 105.5  |

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Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E



#52

4-Nitrophenol

Concen: 5.07 ng/ul

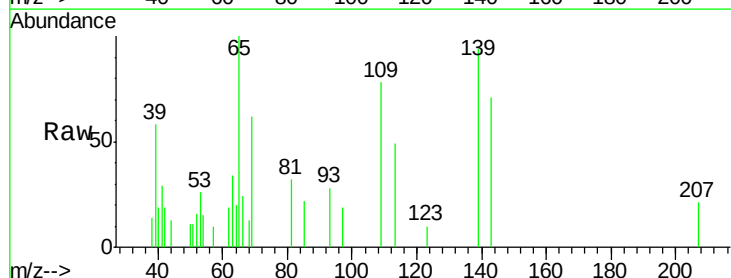
RT: 14.65 min Scan# 2034

Delta R.T. 0.02 min

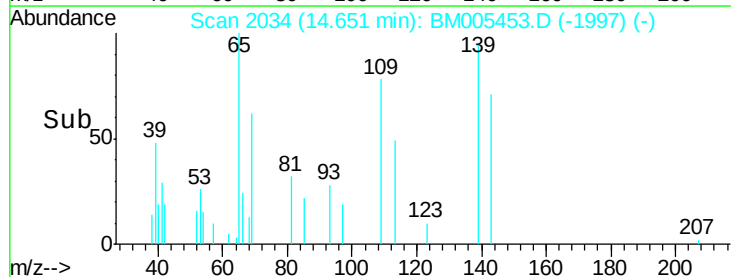
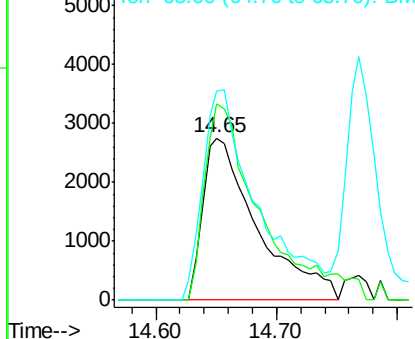
Lab File: BM005453.D

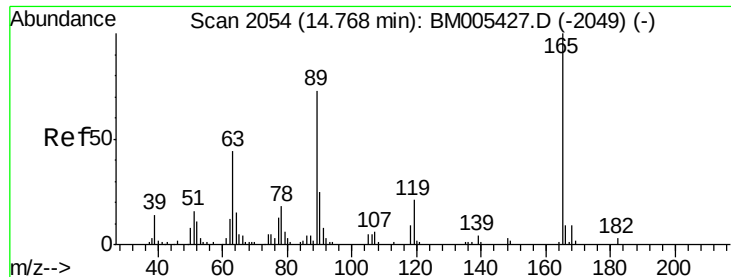
Acq: 14 May 2016 06:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 109   | Resp: | 8595  |
| Ion Ratio |       | Lower | Upper |
| 109       | 100   |       |       |
| 139       | 121.2 | 103.6 | 155.4 |
| 65        | 128.7 | 104.7 | 157.1 |



Abundance Ion 109.00 (108.70 to 109.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 65.00 (64.70 to 65.70): BM





#54

2,4-Dinitrotoluene

Concen: 35.68 ng/ul

RT: 14.77 min Scan# 2054

Delta R.T. -0.00 min

Lab File: BM005453.D

Acq: 14 May 2016 06:58

Instrument :

BNA\_M

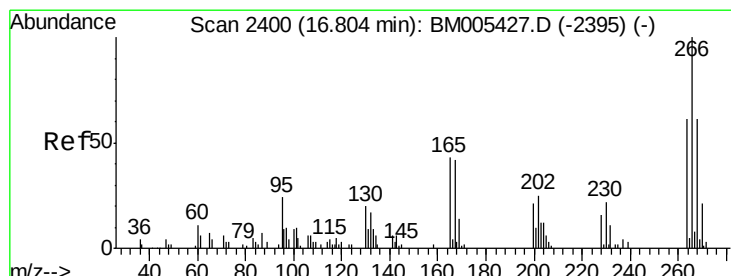
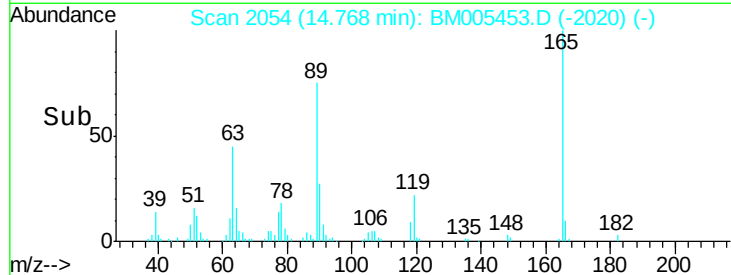
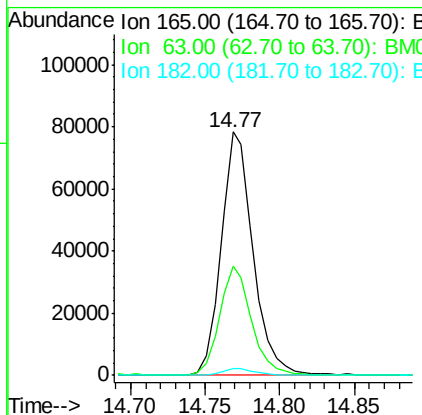
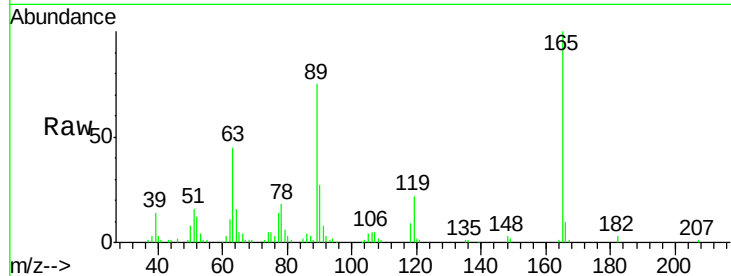
ClientSampled :

H4002MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 165   | Resp: | 117093 |
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 63        | 45.0  | 36.2  | 54.4   |
| 182       | 3.0   | 2.5   | 3.7    |

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#68

Pentachlorophenol

Concen: 23.54 ng/ul

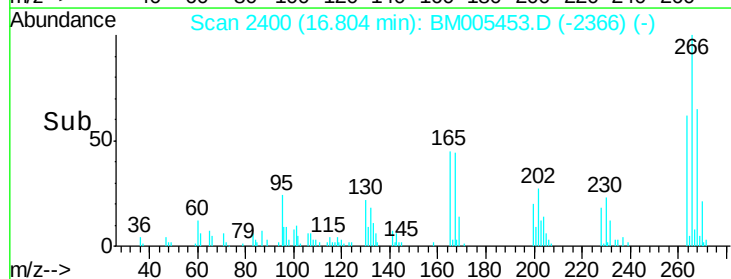
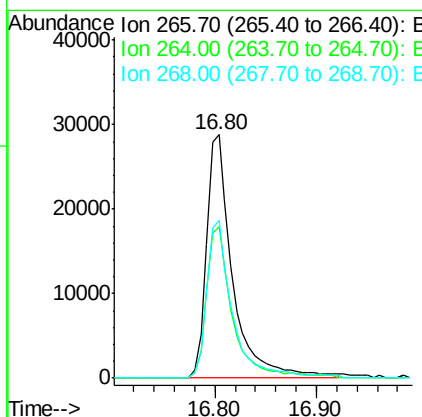
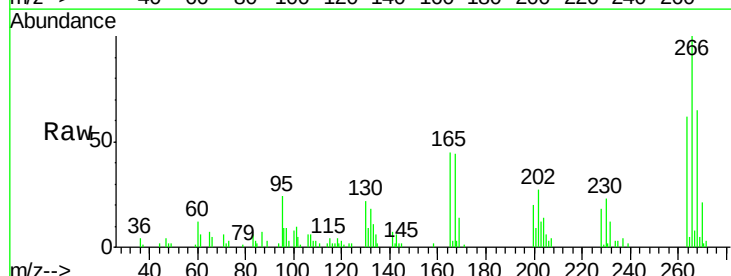
RT: 16.80 min Scan# 2400

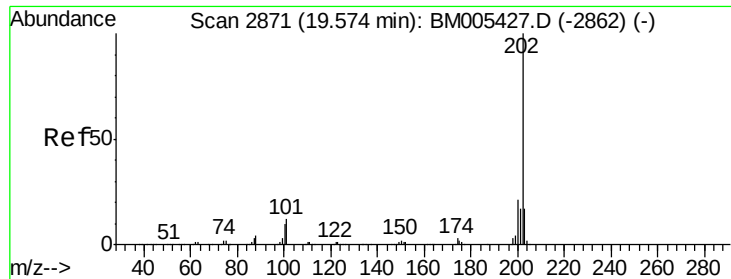
Delta R.T. -0.00 min

Lab File: BM005453.D

Acq: 14 May 2016 06:58

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 51388 |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 62.1  | 52.0  | 78.0  |
| 268       | 65.0  | 53.0  | 79.6  |





#77

Pyrene

Concen: 29.29 ng/ul

RT: 19.57 min Scan# 2870

Delta R.T. -0.01 min

Lab File: BM005453.D

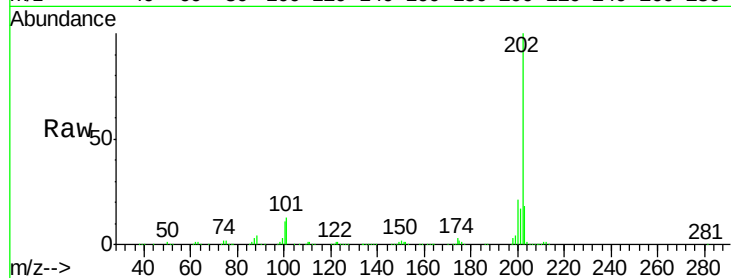
Acq: 14 May 2016 06:58

Instrument :

BNA\_M

ClientSampleId :

H4002MSD



| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 202 | 100  |       | 917137 |       |       |
| 101 | 12.9 | 10.8  | 16.2   |       |       |
| 100 | 10.7 | 8.4   | 12.6   |       |       |

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