

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092315\  
 Data File : VD046853.D  
 Acq On : 23 Sep 2015 14:17  
 Operator : FY/SY  
 Sample : G3748-03  
 Misc : 13.17am/5mL/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MGP202-42-44

Quant Time: Sep 24 10:08:32 2015  
 Quant Method : W:\HPCHEM1\MSVOA\_D\METHOD\82D091815S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 18 15:47:18 2015  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.29  | 168  | 177959   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 7.42  | 114  | 238909   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 11.57 | 117  | 214356   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 13.91 | 152  | 100224   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |       |
|-----------------------------|--------|-----|----------|-------|--------|-------|
| System Monitoring Compounds |        |     |          |       |        |       |
| 33) 1,2-Dichloroethane-d4   | 6.70   | 65  | 83362    | 45.05 | ug/l   | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.10% |       |
| 35) Dibromofluoromethane    | 6.19   | 113 | 85033    | 45.49 | ug/l   | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.98% |       |
| 50) Toluene-d8              | 9.60   | 98  | 243289   | 41.26 | ug/l   | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 82.52% |       |
| 62) 4-Bromofluorobenzene    | 12.84  | 95  | 102693   | 43.25 | ug/l   | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.50% |       |

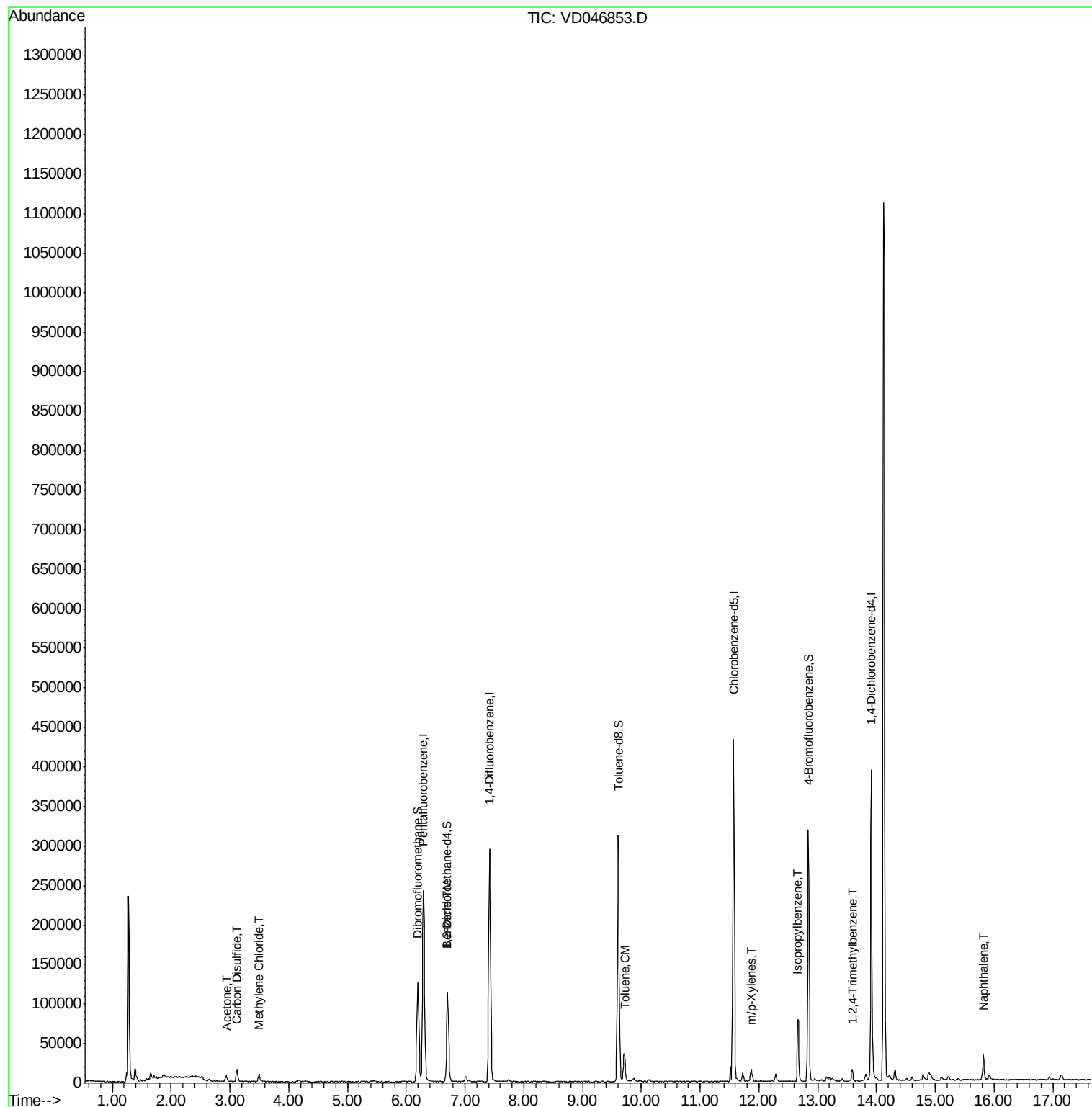
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 17) Acetone                | 2.93  | 43   | 9853     | 31.52 | ug/l   | 95     |
| 18) Carbon Disulfide       | 3.12  | 76   | 20920    | 3.92  | ug/l   | 96     |
| 21) Methylene Chloride     | 3.49  | 84   | 4577     | 2.70  | ug/l # | 82     |
| 40) Benzene                | 6.71  | 78   | 28594    | 4.01  | ug/l   | 96     |
| 52) Toluene                | 9.71  | 92   | 16741    | 3.81  | ug/l   | 92     |
| 68) m/p-Xylenes            | 11.87 | 106  | 4094     | 1.43  | ug/l   | 94     |
| 73) Isopropylbenzene       | 12.67 | 105  | 47248    | 6.69  | ug/l   | 97     |
| 84) 1,2,4-Trimethylbenzene | 13.59 | 105  | 8091     | 1.43  | ug/l   | 92     |
| 95) Naphthalene            | 15.81 | 128  | 26866    | 14.43 | ug/l   | 99     |

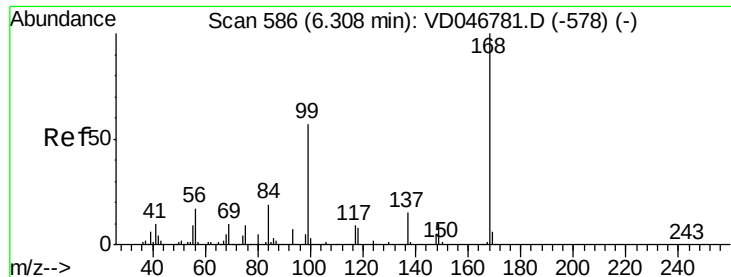
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092315\  
Data File : VD046853.D  
Acq On : 23 Sep 2015 14:17  
Operator : FY/SY  
Sample : G3748-03  
Misc : 13.17am/5mL/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
MGP202-42-44

Quant Time: Sep 24 10:08:32 2015  
Quant Method : W:\HPCHEM1\MSVOA\_D\METHOD\82D091815S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 18 15:47:18 2015  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.02 min

Lab File: VD046853.D

Acq: 23 Sep 2015 14:17

Instrument :

MSVOA\_D

ClientSampleId :

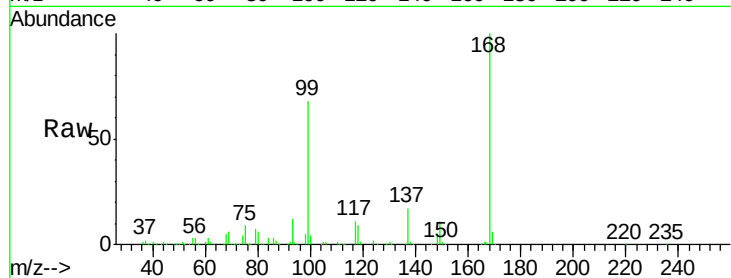
MGP202-42-44

Tot Ion:168 Resp: 177959

Ion Ratio Lower Upper

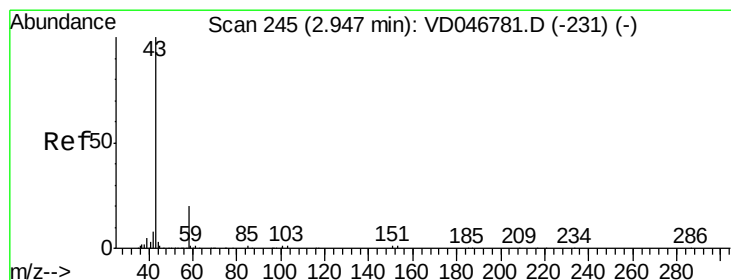
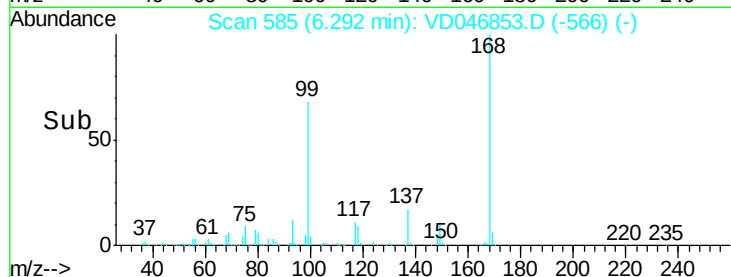
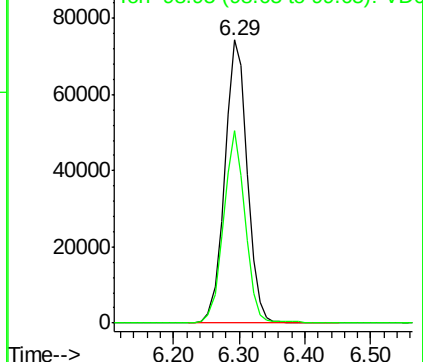
168 100

99 68.2 42.4 63.6#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#17

Acetone

Concen: 31.52 ug/l

RT: 2.93 min Scan# 244

Delta R.T. -0.02 min

Lab File: VD046853.D

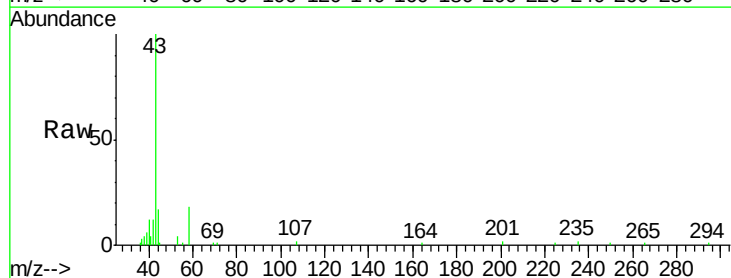
Acq: 23 Sep 2015 14:17

Tgt Ion: 43 Resp: 9853

Ion Ratio Lower Upper

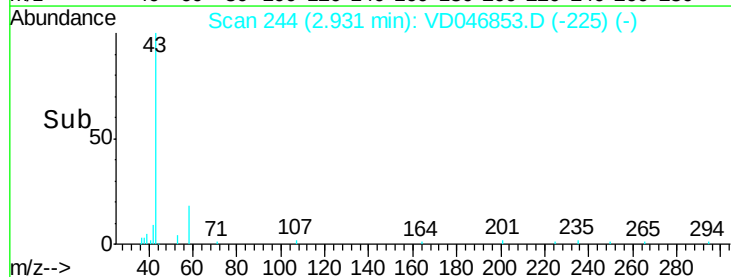
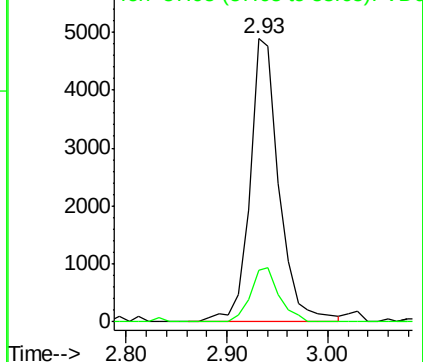
43 100

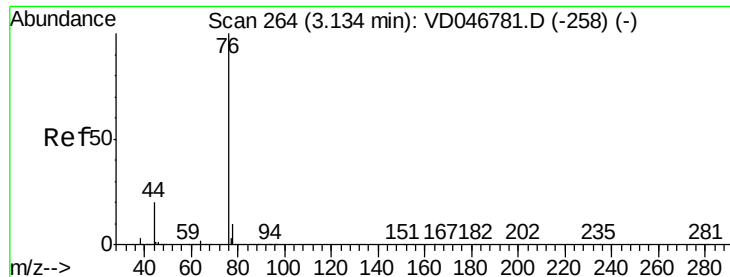
58 18.5 16.6 24.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#18

Carbon Disulfide

Concen: 3.92 ug/l

RT: 3.12 min Scan# 263

Delta R.T. -0.02 min

Lab File: VD046853.D

Acq: 23 Sep 2015 14:17

Instrument :

MSVOA\_D

ClientSampleId :

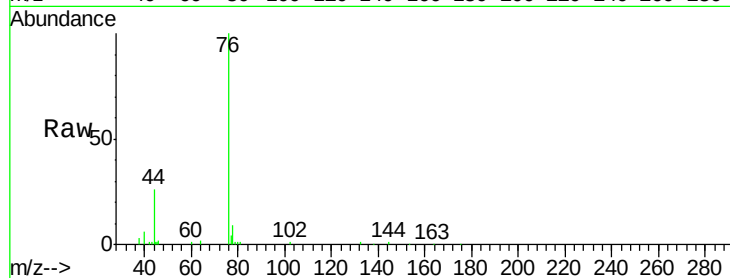
MGP202-42-44

Tot Ion: 76 Resp: 20920

Ion Ratio Lower Upper

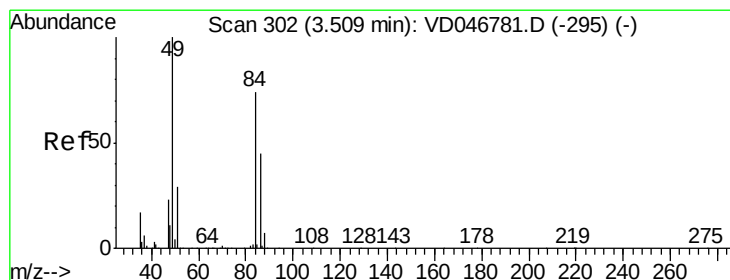
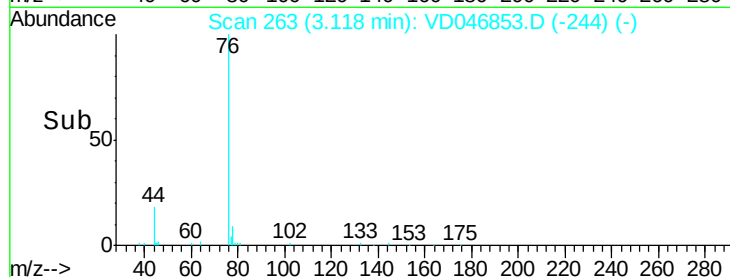
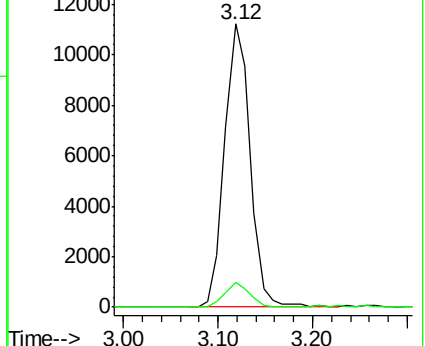
76 100

78 8.6 8.0 12.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#21

Methylene Chloride

Concen: 2.70 ug/l

RT: 3.49 min Scan# 301

Delta R.T. -0.02 min

Lab File: VD046853.D

Acq: 23 Sep 2015 14:17

Tgt Ion: 84 Resp: 4577

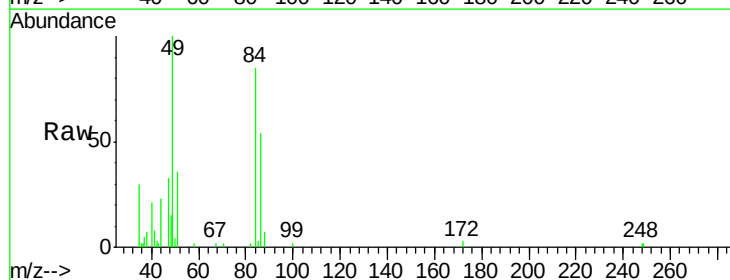
Ion Ratio Lower Upper

84 100

49 117.3 122.1 183.1#

51 42.1 33.6 50.4

86 63.8 48.3 72.5

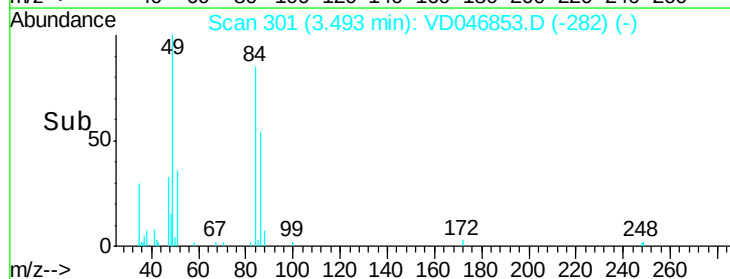
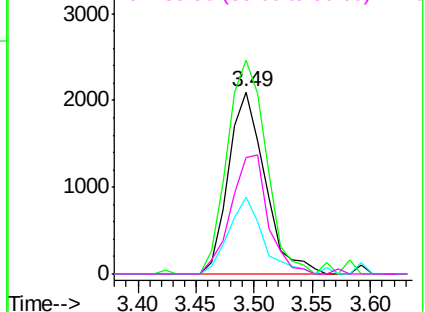


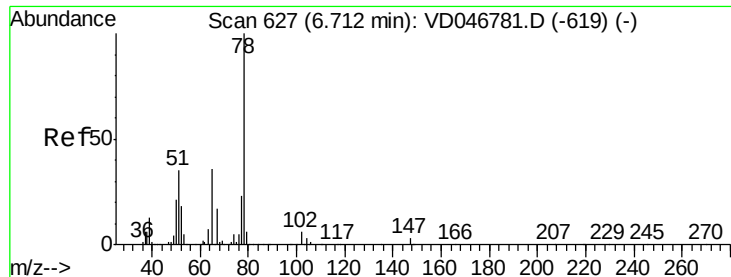
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

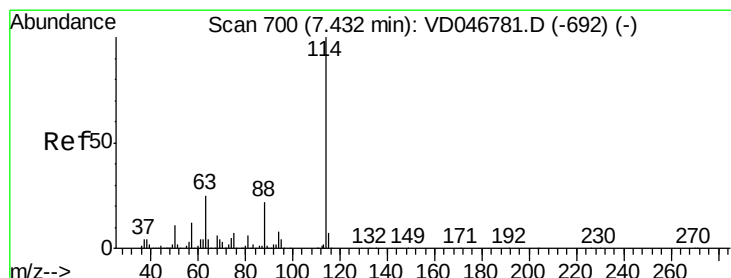
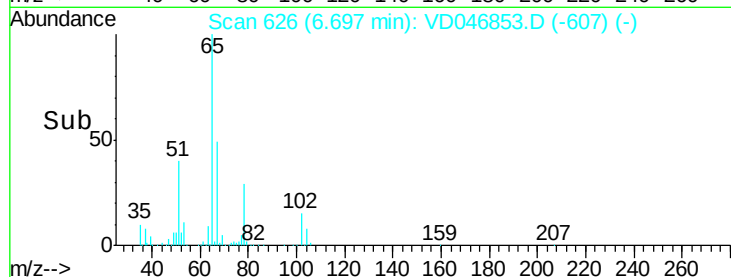
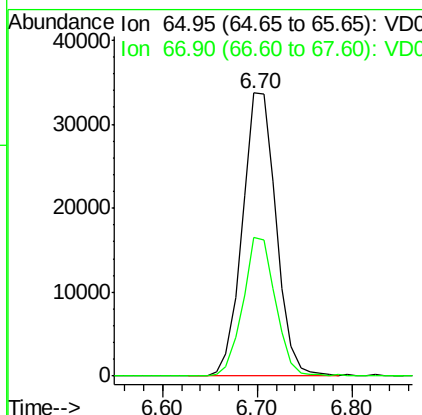
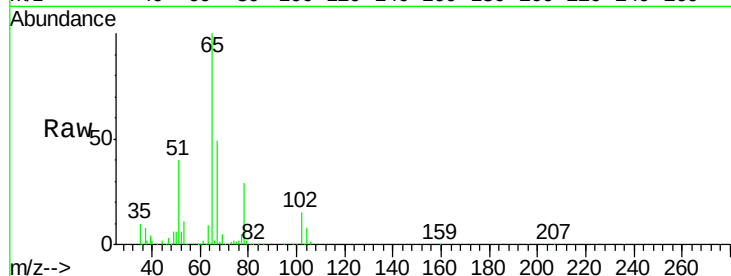




#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 6.70 min Scan# 626  
 Delta R.T. -0.02 min  
 Lab File: VD046853.D  
 Acq: 23 Sep 2015 14:17

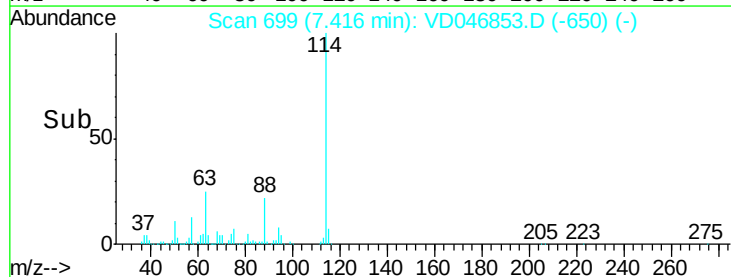
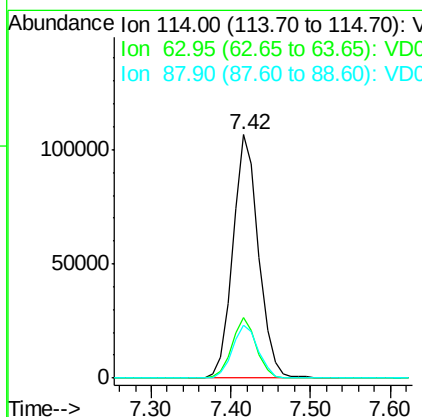
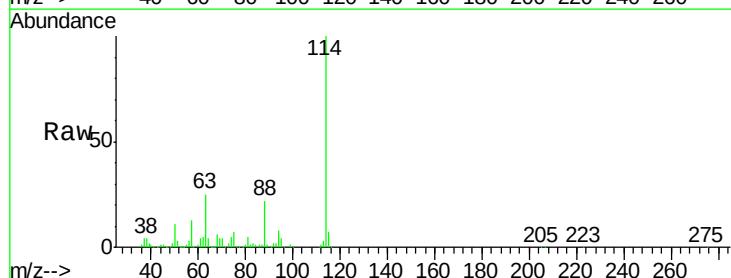
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MGP202-42-44

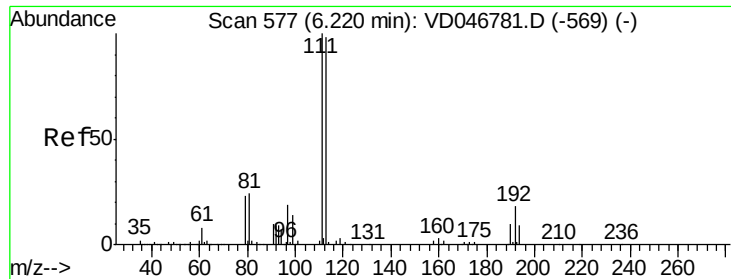
Tot Ion: 65 Resp: 83362  
 Ion Ratio Lower Upper  
 65 100  
 67 48.9 0.0 105.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 7.42 min Scan# 699  
 Delta R.T. -0.02 min  
 Lab File: VD046853.D  
 Acq: 23 Sep 2015 14:17

Tgt Ion: 114 Resp: 238909  
 Ion Ratio Lower Upper  
 114 100  
 63 25.0 0.0 49.8  
 88 21.8 0.0 43.6

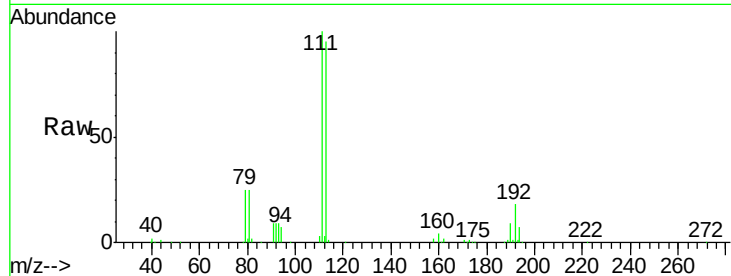




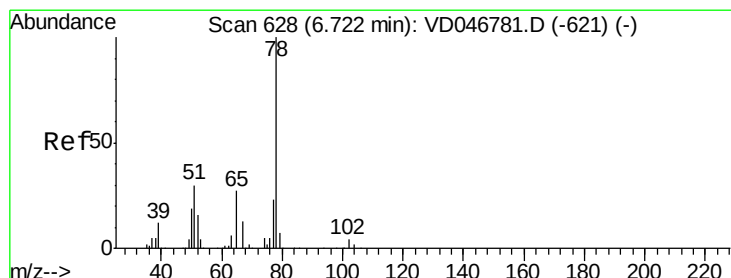
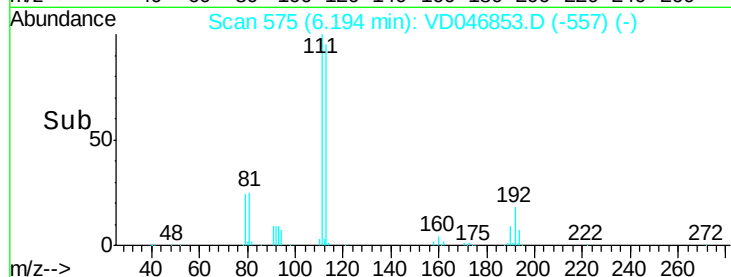
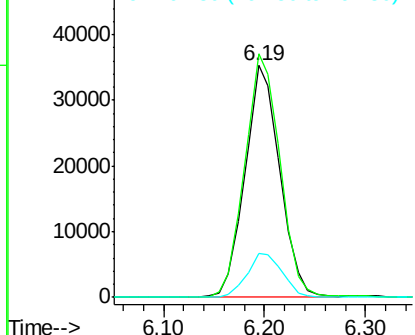
#35  
 Dibromofluoromethane  
 Concen: 50.00 ug/l  
 RT: 6.19 min Scan# 575  
 Delta R.T. -0.03 min  
 Lab File: VD046853.D  
 Acq: 23 Sep 2015 14:17

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MGP202-42-44

Tot Ion:113 Resp: 85033  
 Ion Ratio Lower Upper  
 113 100  
 111 105.1 79.4 119.0  
 192 19.2 14.6 22.0

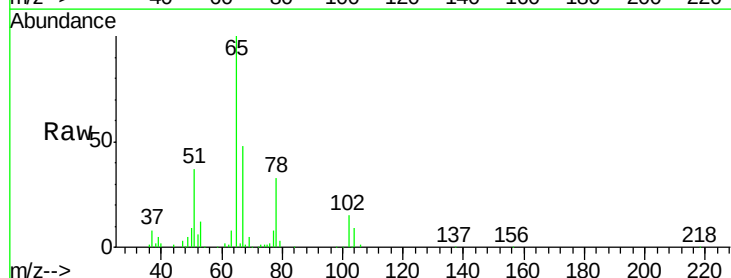


Abundance Ion 112.90 (112.60 to 113.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 191.80 (191.50 to 192.50): V

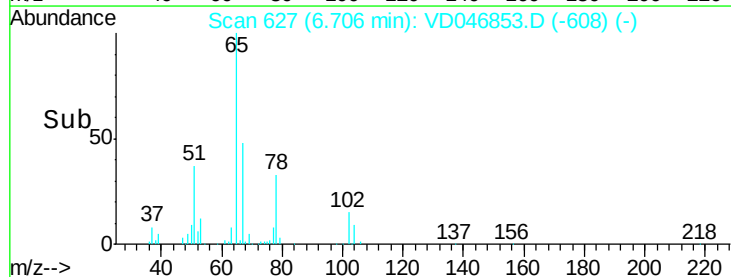
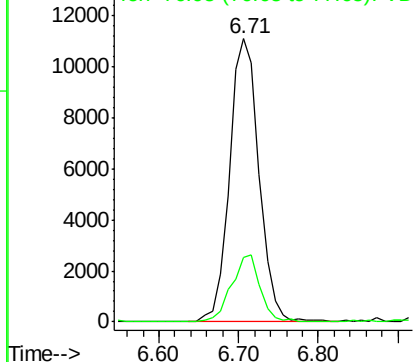


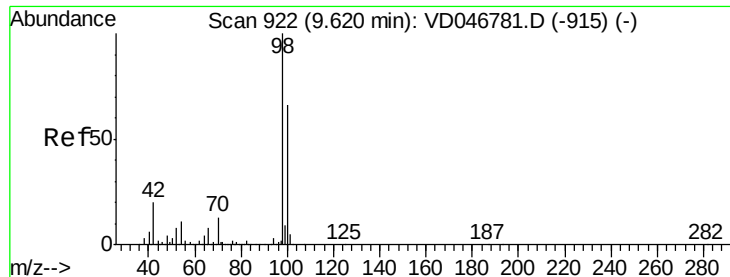
#40  
 Benzene  
 Concen: 4.01 ug/l  
 RT: 6.71 min Scan# 627  
 Delta R.T. -0.02 min  
 Lab File: VD046853.D  
 Acq: 23 Sep 2015 14:17

Tgt Ion: 78 Resp: 28594  
 Ion Ratio Lower Upper  
 78 100  
 77 22.9 19.9 29.9



Abundance Ion 77.95 (77.65 to 78.65): VDC  
 Ion 76.95 (76.65 to 77.65): VDC

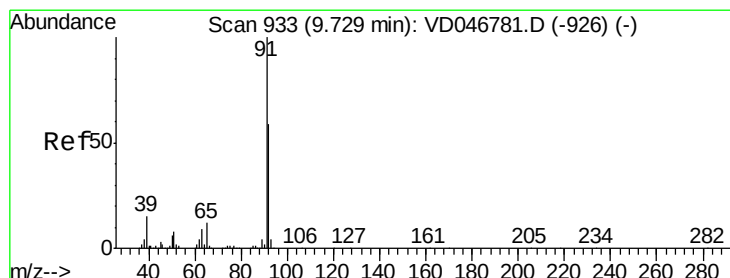
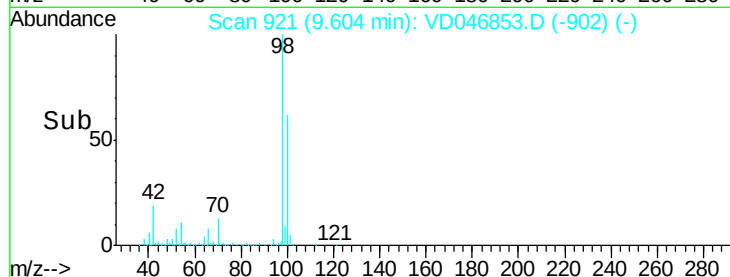
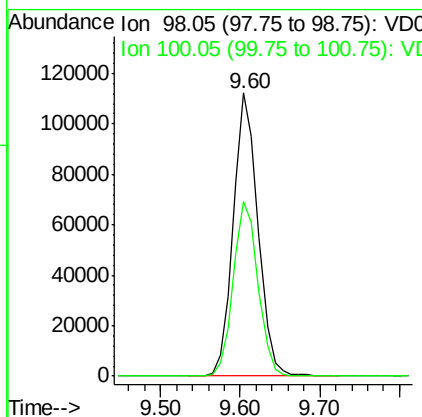
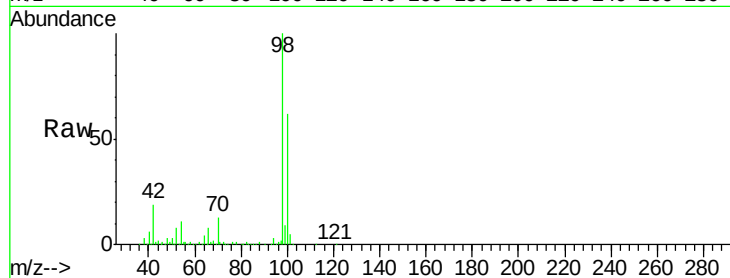




#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.60 min Scan# 921  
Delta R.T. -0.02 min  
Lab File: VD046853.D  
Acq: 23 Sep 2015 14:17

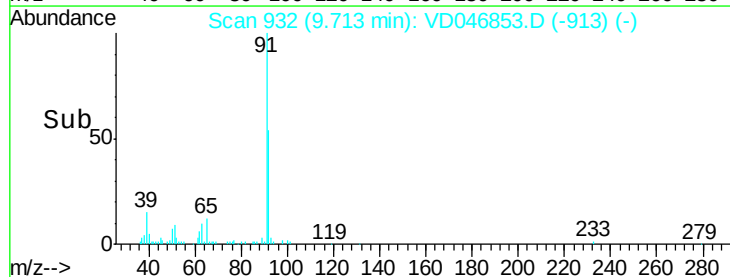
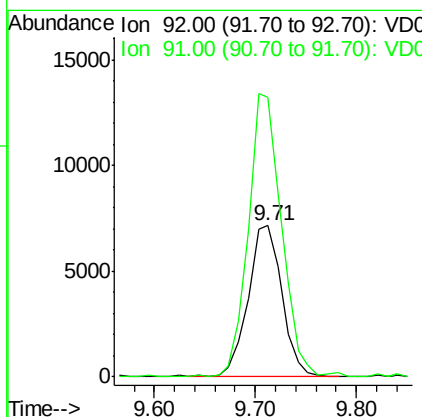
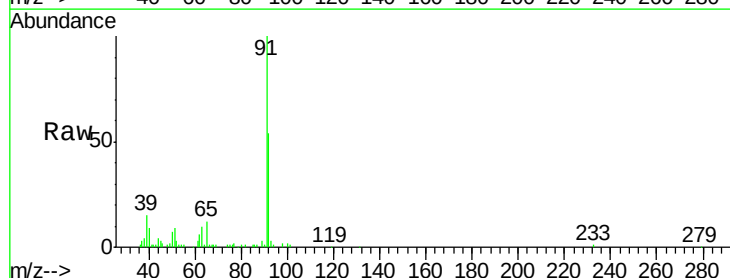
Instrument :  
MSVOA\_D  
ClientSampleId :  
MGP202-42-44

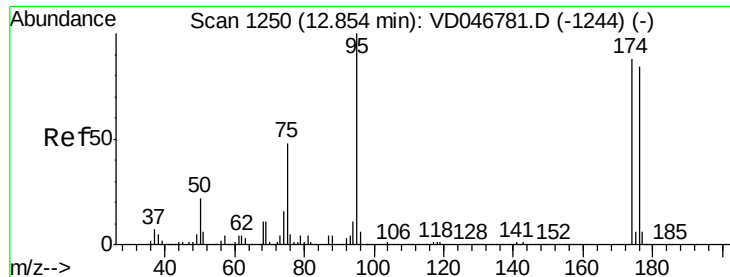
Tot Ion: 98 Resp: 243289  
Ion Ratio Lower Upper  
98 100  
100 61.6 49.9 74.9



#52  
Toluene  
Concen: 3.81 ug/l  
RT: 9.71 min Scan# 932  
Delta R.T. -0.02 min  
Lab File: VD046853.D  
Acq: 23 Sep 2015 14:17

Tgt Ion: 92 Resp: 16741  
Ion Ratio Lower Upper  
92 100  
91 185.0 139.4 209.0





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.84 min Scan# 1249

Delta R.T. -0.02 min

Lab File: VD046853.D

Acq: 23 Sep 2015 14:17

Instrument :

MSVOA\_D

ClientSampleId :

MGP202-42-44

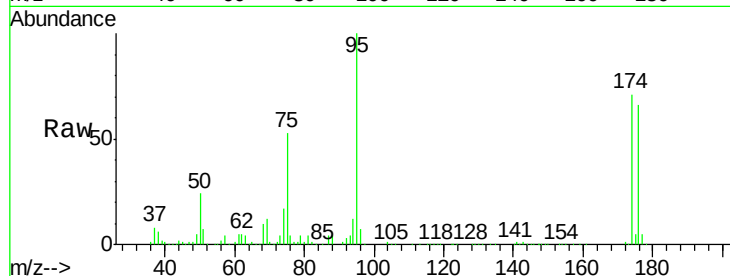
Tot Ion: 95 Resp: 102693

Ion Ratio Lower Upper

95 100

174 70.7 0.0 149.8

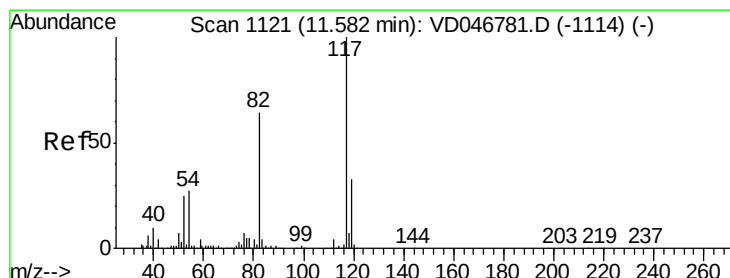
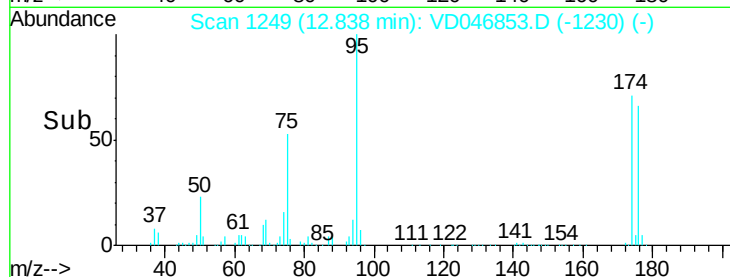
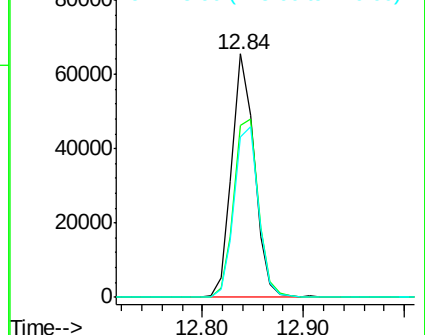
176 66.0 0.0 143.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VD046853.D

Acq: 23 Sep 2015 14:17

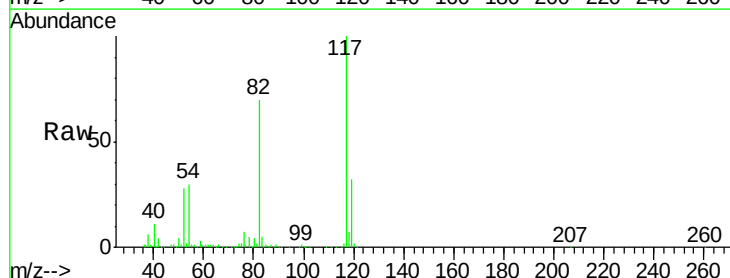
Tgt Ion: 117 Resp: 214356

Ion Ratio Lower Upper

117 100

82 70.4 50.6 75.8

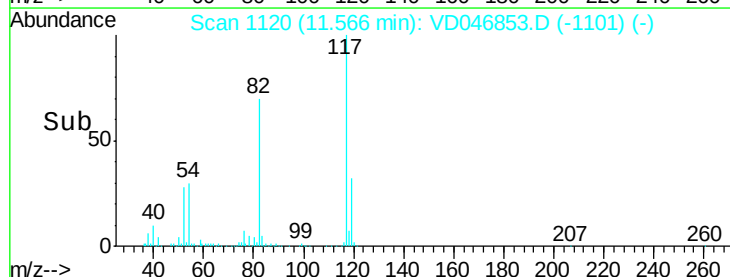
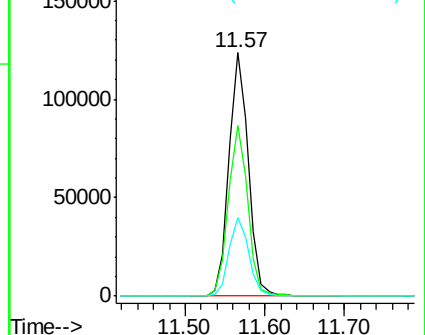
119 32.0 25.8 38.8



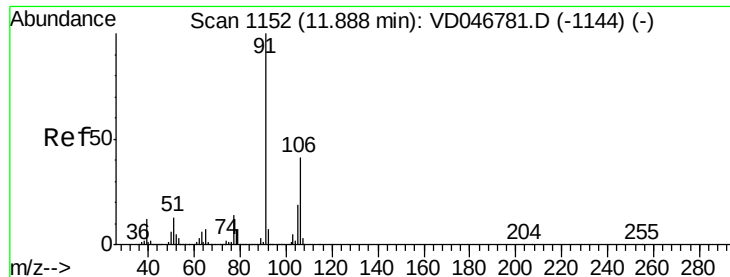
Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V







#68

m/p-Xvlenes

Concen: 1.43 ug/l

RT: 11.87 min Scan# 1151

Delta R.T. -0.02 min

Lab File: VD046853.D

Acq: 23 Sep 2015 14:17

Instrument :

MSVOA\_D

ClientSampleId :

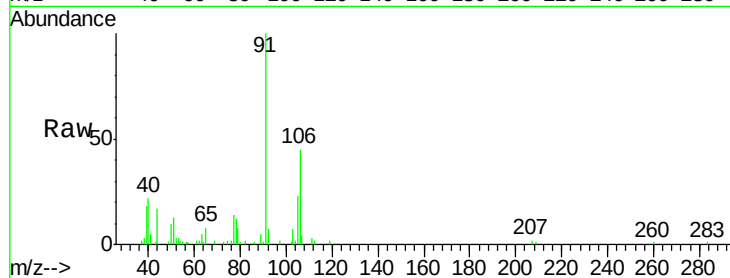
MGP202-42-44

Tot Ion:106 Resp: 4094

Ion Ratio Lower Upper

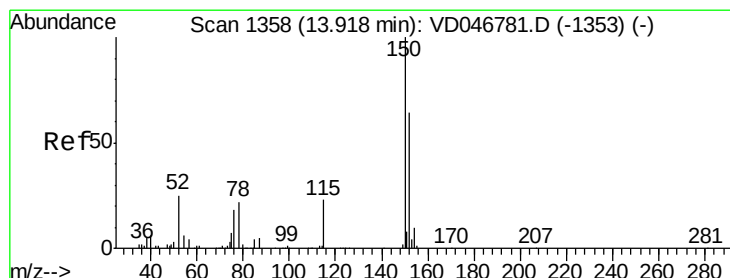
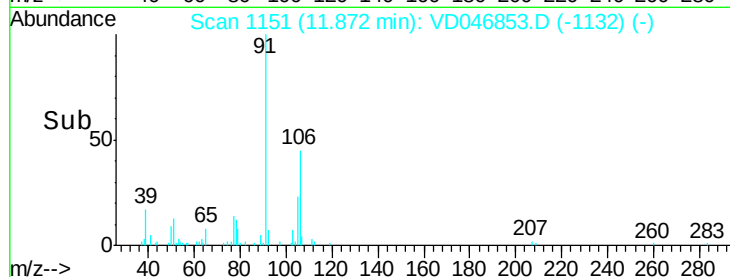
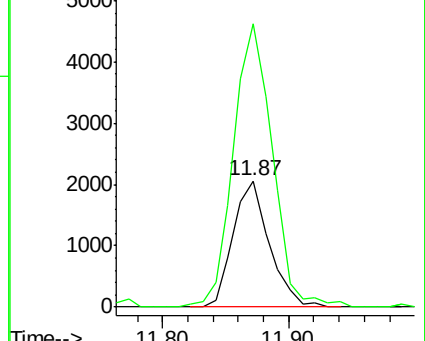
106 100

91 224.6 187.9 281.9



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.91 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VD046853.D

Acq: 23 Sep 2015 14:17

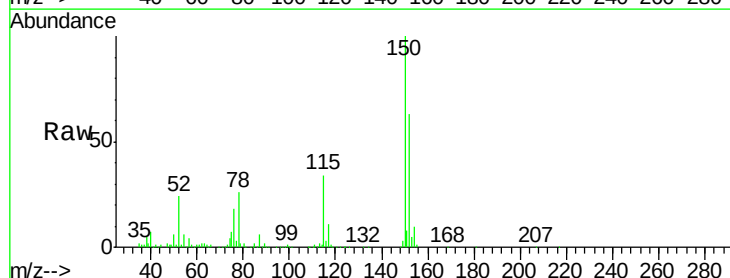
Tgt Ion:152 Resp: 100224

Ion Ratio Lower Upper

152 100

115 53.4 26.2 78.6

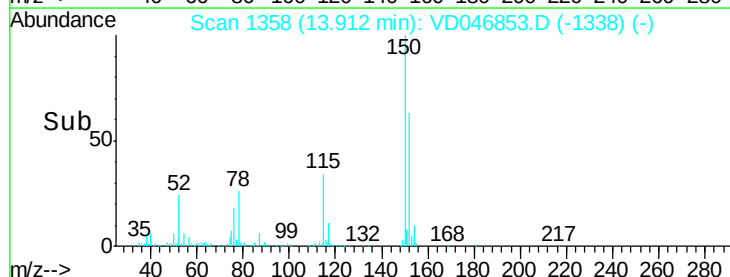
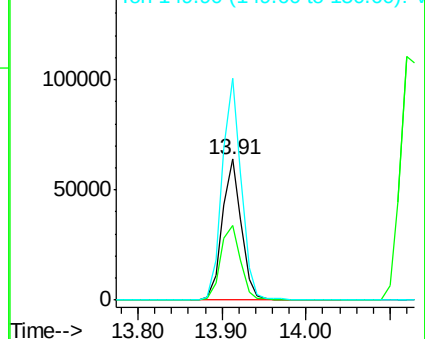
150 158.0 0.0 311.8

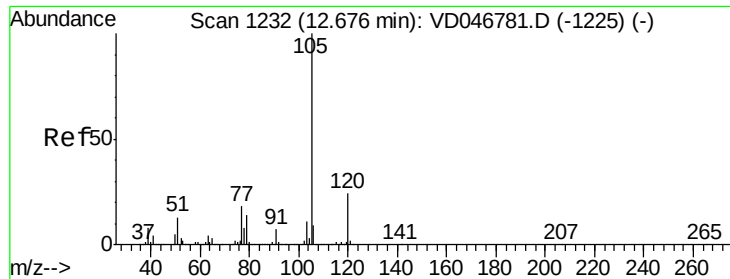


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 6.69 ug/l

RT: 12.67 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD046853.D

Acq: 23 Sep 2015 14:17

Instrument :

MSVOA\_D

ClientSampleId :

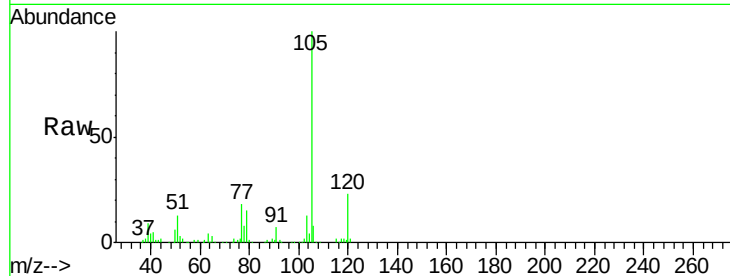
MGP202-42-44

Tot Ion:105 Resp: 47248

Ion Ratio Lower Upper

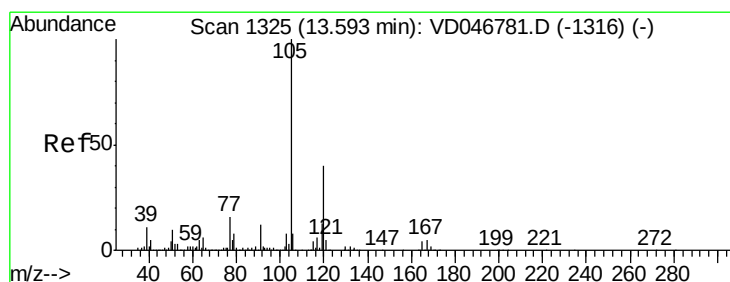
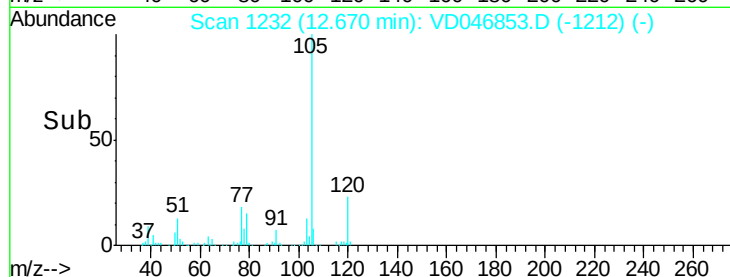
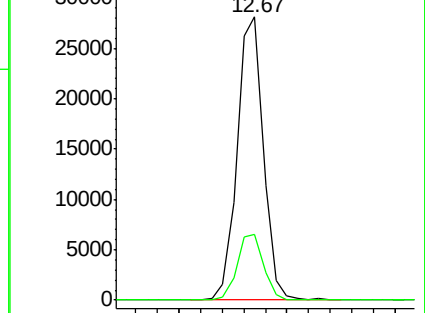
105 100

120 23.4 12.4 37.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#84

1,2,4-Trimethylbenzene

Concen: 1.43 ug/l

RT: 13.59 min Scan# 1325

Delta R.T. -0.01 min

Lab File: VD046853.D

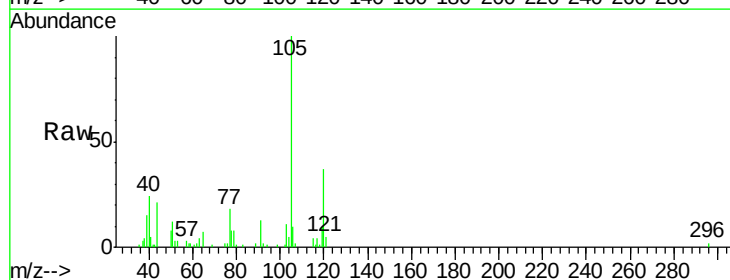
Acq: 23 Sep 2015 14:17

Tgt Ion:105 Resp: 8091

Ion Ratio Lower Upper

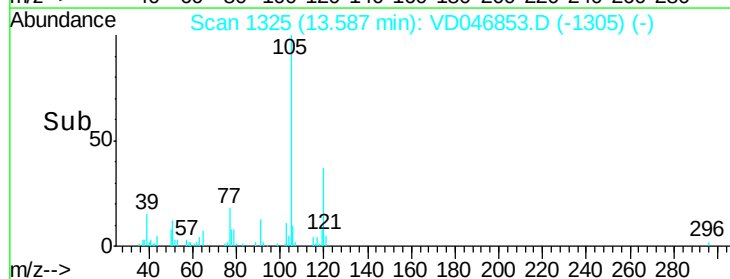
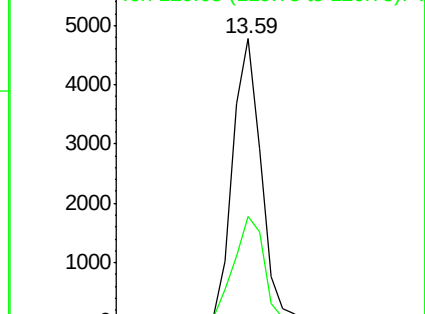
105 100

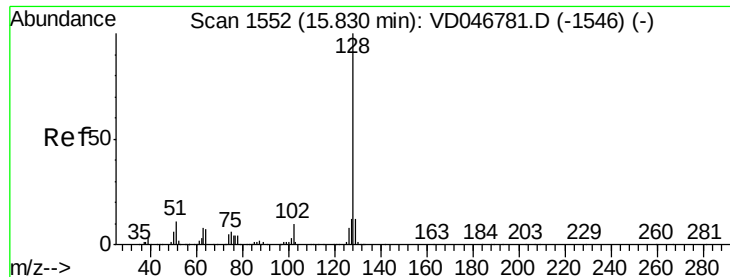
120 37.2 21.1 63.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

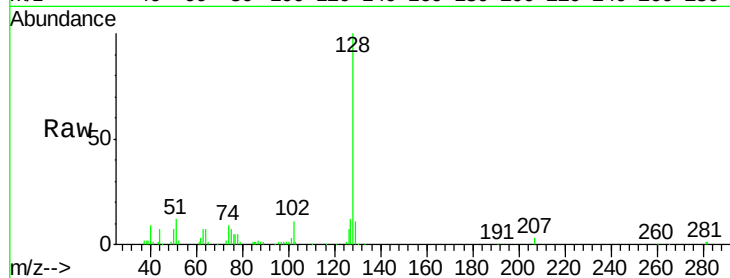




#95  
 Naphthalene  
 Concen: 14.43 ug/l  
 RT: 15.81 min Scan# 1551  
 Delta R.T. -0.02 min  
 Lab File: VD046853.D  
 Acq: 23 Sep 2015 14:17

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MGP202-42-44

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 11.8  | 9.8   | 14.6  |
| 129     | 10.7  | 8.6   | 12.8  |



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

