

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100219\  
 Data File : VW013383.D  
 Acq On : 02 Oct 2019 17:21  
 Operator : SY/VA  
 Sample : K4946-08  
 Misc : 7.21G/5ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GP-4 (1-3)

Quant Time: Oct 03 07:23:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 02 11:49:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 324209   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 480356   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 385495   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 144349   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.30   | 65  | 134901   | 55.73 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.46% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 136313   | 54.08 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.16% |      |
| 50) Toluene-d8              | 10.32  | 98  | 556232   | 53.18 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.36% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 153836   | 44.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.08%  |      |

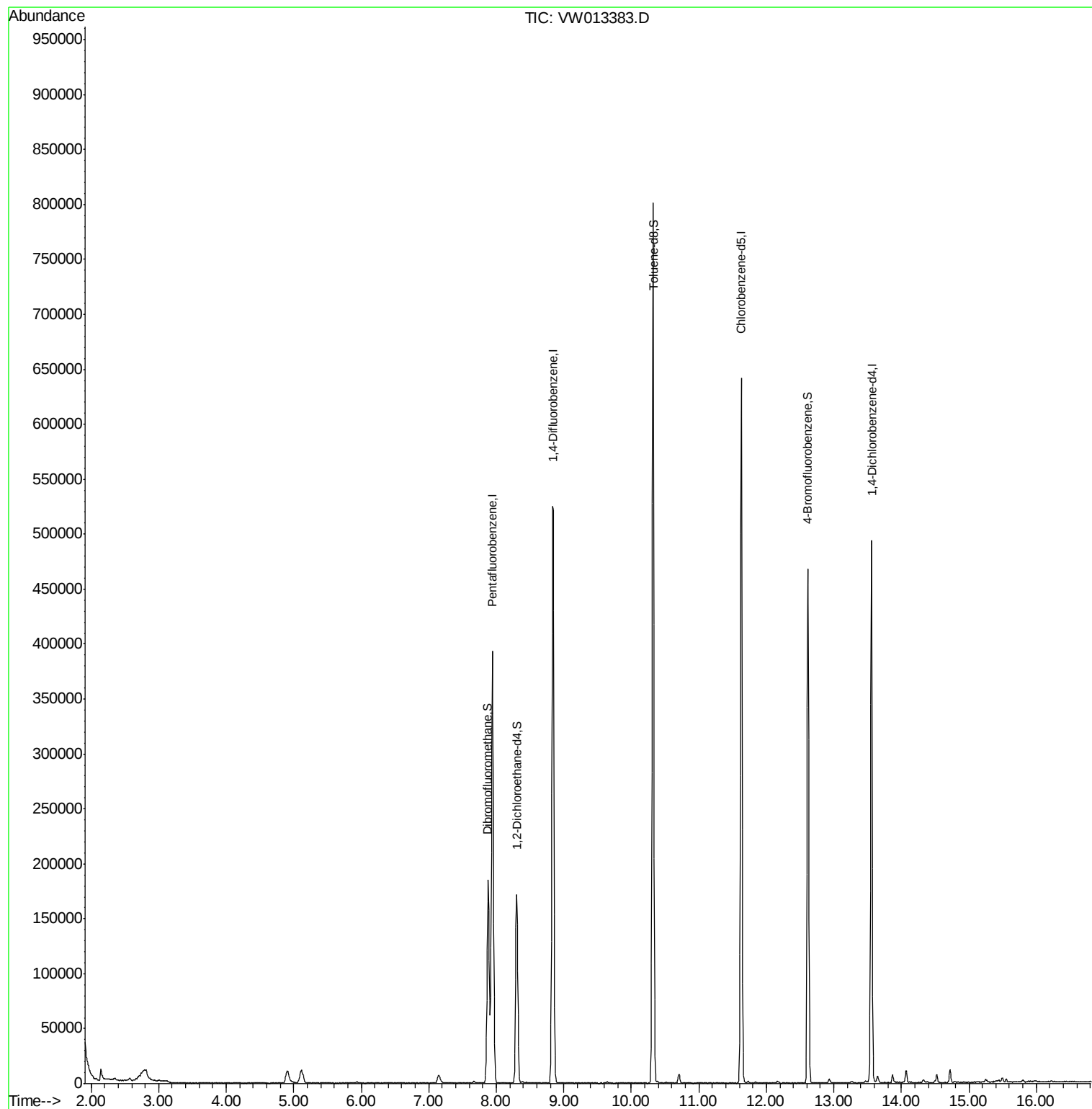
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

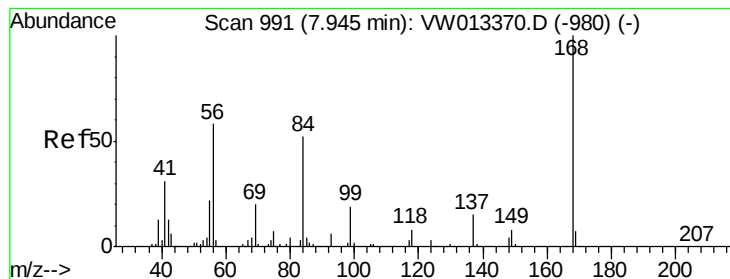
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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GP-4 (1-3)

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 02 11:49:57 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013383.D

Acq: 02 Oct 2019 17:21

Instrument :

MSVOA\_W

ClientSampleId :

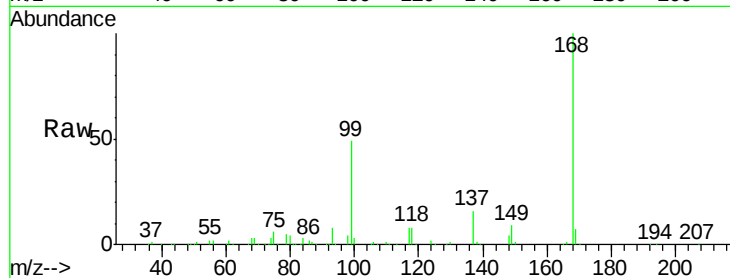
GP-4 (1-3)

Tot Ion:168 Resp: 324209

Ion Ratio Lower Upper

168 100

99 48.8 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

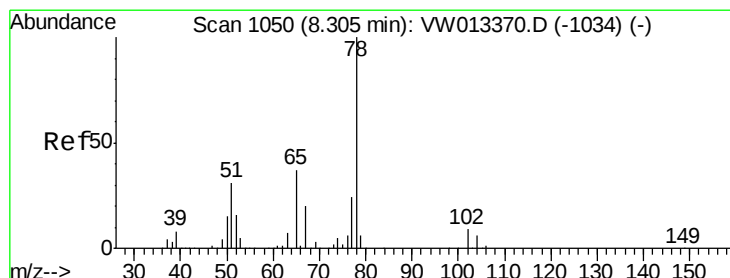
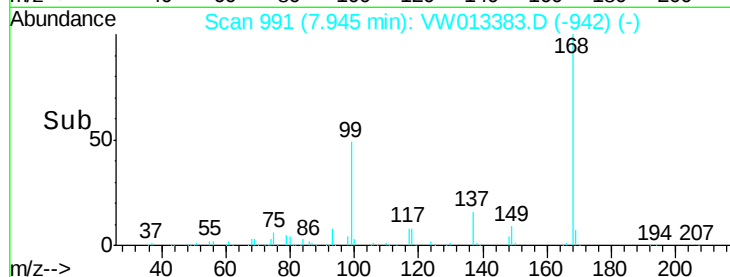
100000

50000

0

7.90 8.00

Time-->



#33

1,2-Dichloroethane-d4

Concen: 55.726 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013383.D

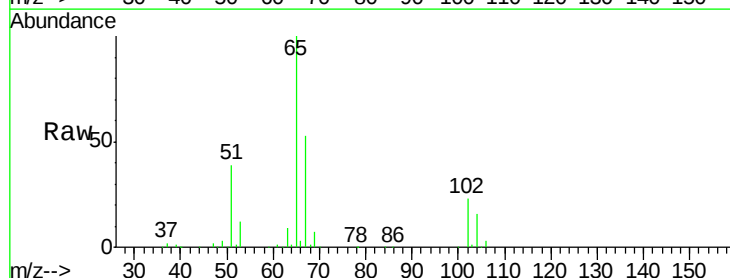
Acq: 02 Oct 2019 17:21

Tgt Ion: 65 Resp: 134901

Ion Ratio Lower Upper

65 100

67 53.7 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.30

60000

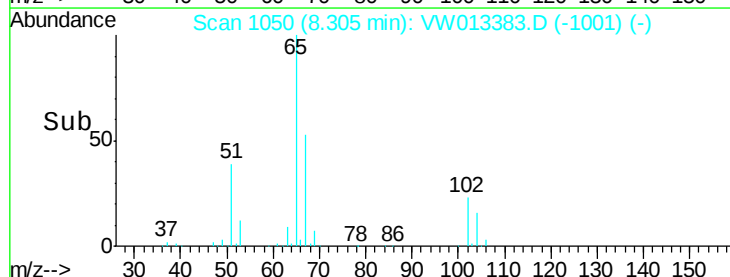
40000

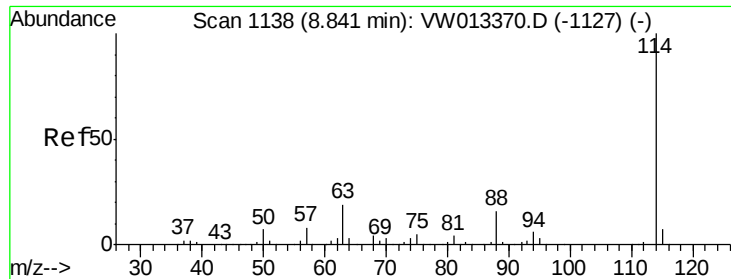
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0

8.20 8.30 8.40

Time-->

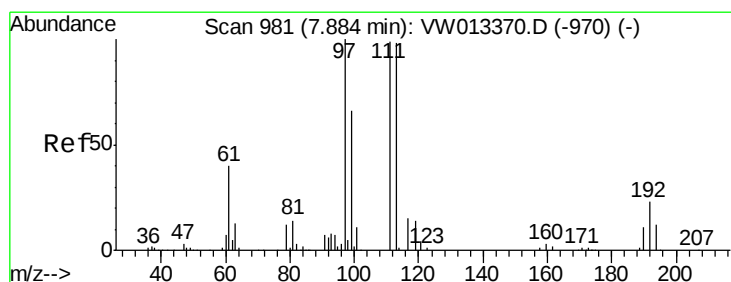
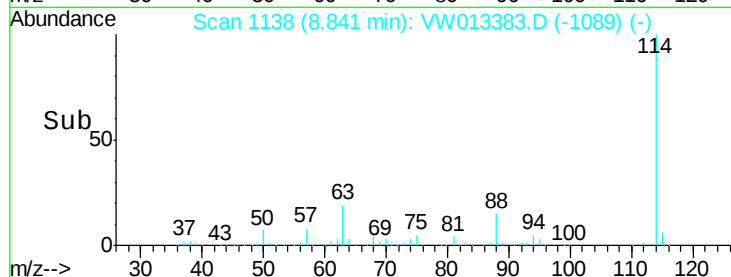
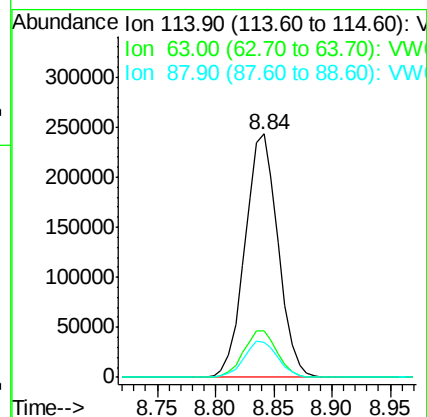
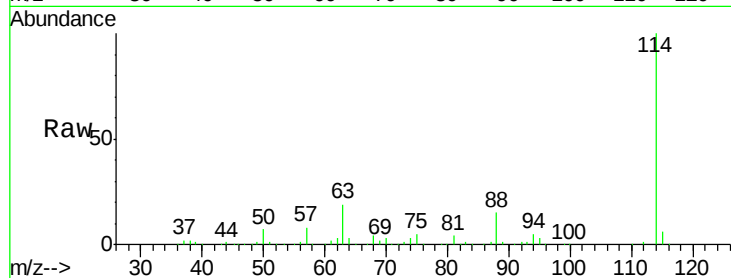




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW013383.D  
 Acq: 02 Oct 2019 17:21

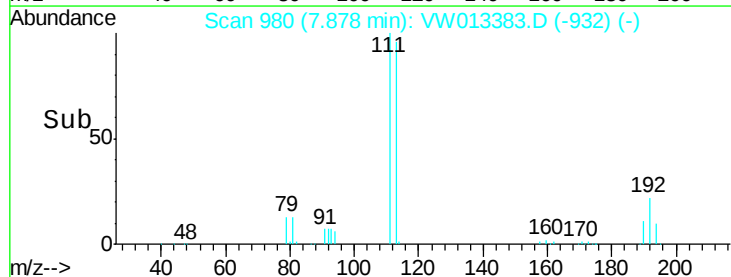
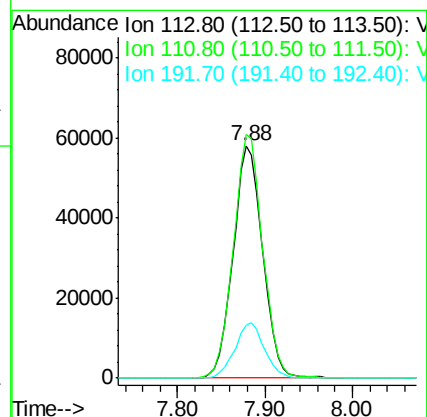
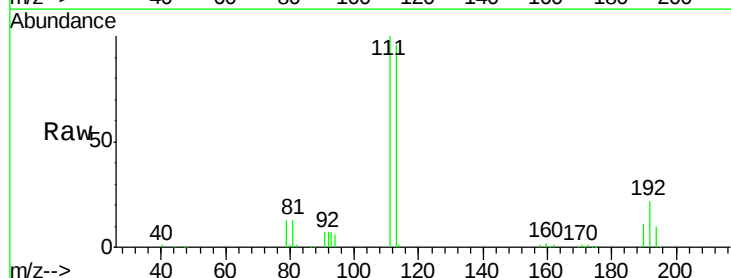
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GP-4 (1-3)

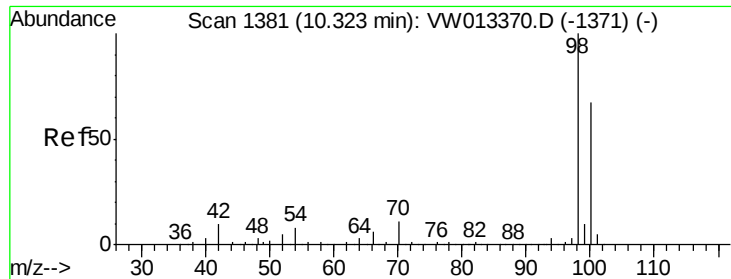
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.2  | 0.0   | 41.4  |
| 88      | 14.6  | 0.0   | 32.0  |



#35  
 Dibromofluoromethane  
 Concen: 54.081 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.01 min  
 Lab File: VW013383.D  
 Acq: 02 Oct 2019 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.2 | 81.9  | 122.9 |
| 192     | 23.7  | 19.1  | 28.7  |

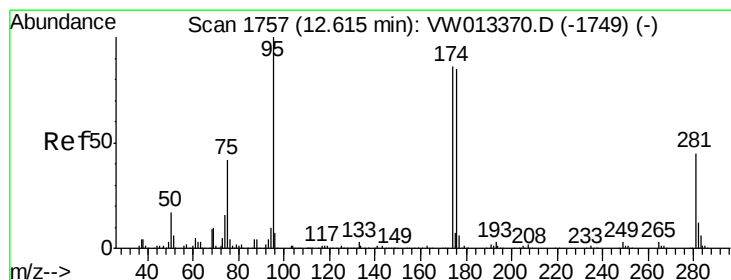
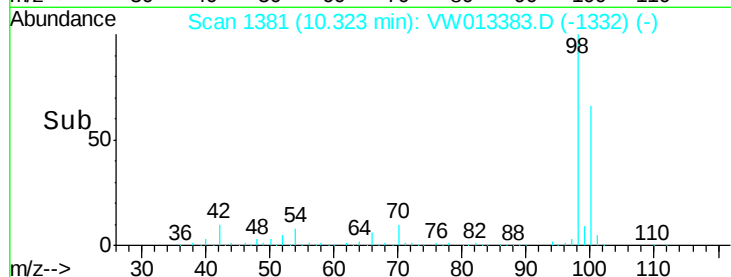
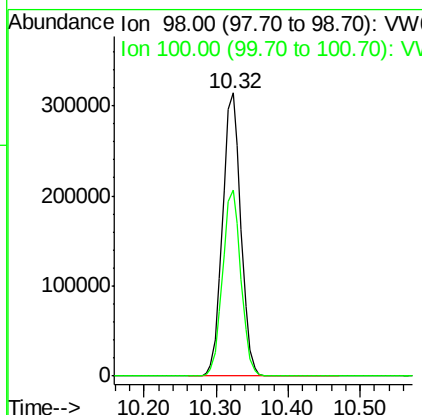
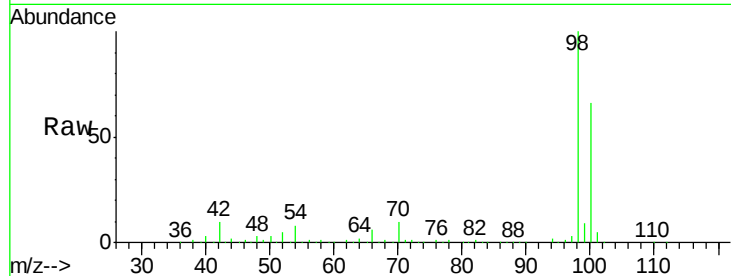




#50  
Toluene-d8  
Concen: 53.178 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW013383.D  
Acq: 02 Oct 2019 17:21

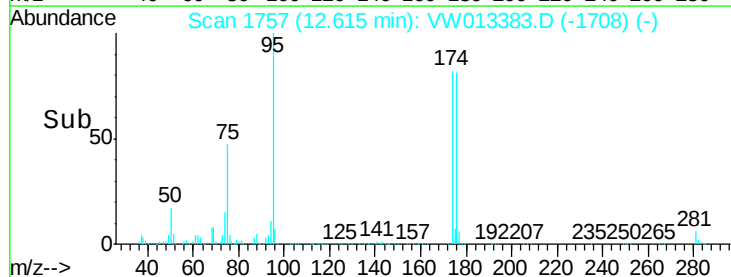
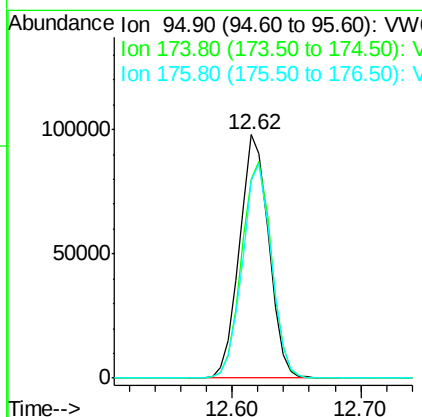
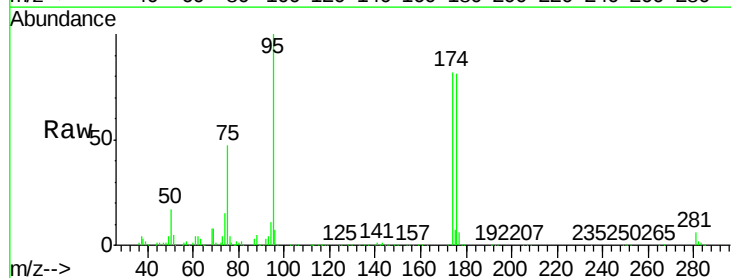
Instrument :  
MSVOA\_W  
ClientSampleId :  
GP-4 (1-3)

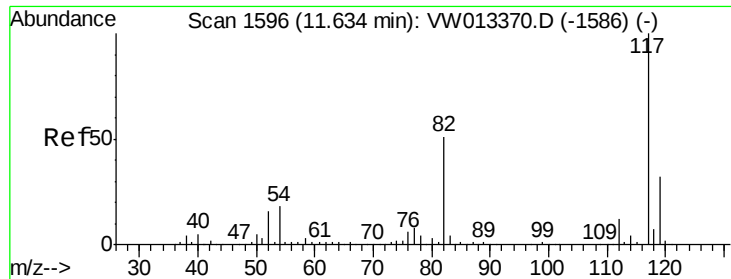
Tot Ion: 98 Resp: 556232  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.9 79.3



#62  
4-Bromofluorobenzene  
Concen: 44.042 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.00 min  
Lab File: VW013383.D  
Acq: 02 Oct 2019 17:21

Tgt Ion: 95 Resp: 153836  
Ion Ratio Lower Upper  
95 100  
174 90.4 0.0 178.4  
176 86.9 0.0 172.2

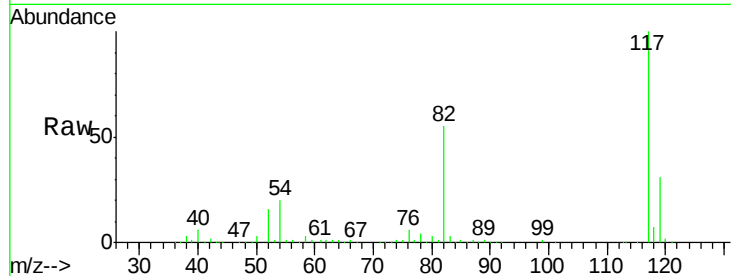




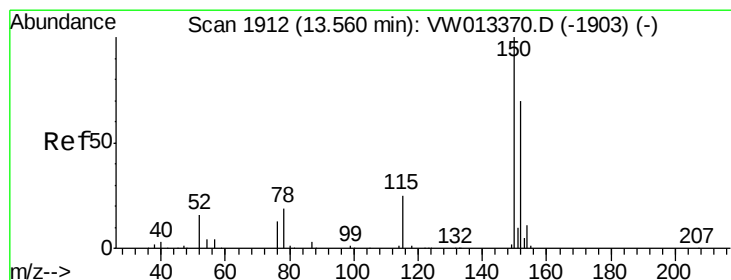
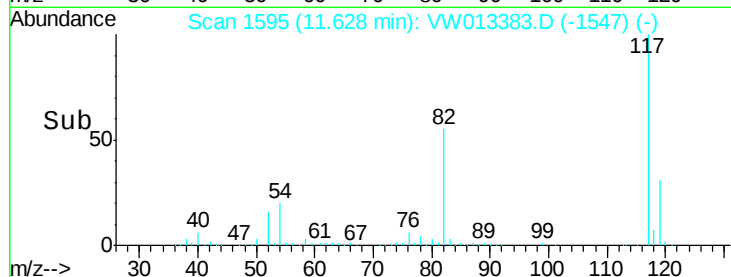
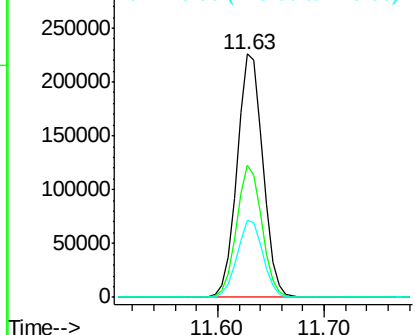
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW013383.D  
Acq: 02 Oct 2019 17:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
GP-4 (1-3)

Tot Ion:117 Resp: 385495  
Ion Ratio Lower Upper  
117 100  
82 54.6 45.9 68.9  
119 31.5 26.2 39.2

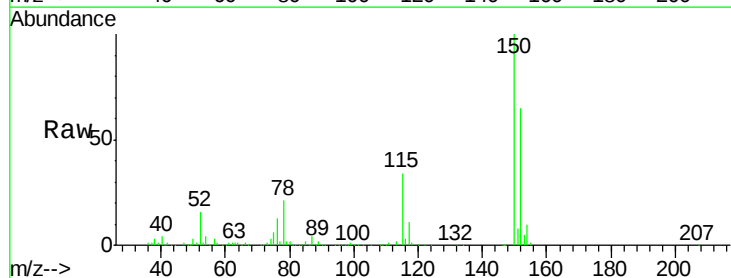


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW013383.D  
Acq: 02 Oct 2019 17:21

Tgt Ion:152 Resp: 144349  
Ion Ratio Lower Upper  
152 100  
115 55.3 27.3 81.9  
150 158.8 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

