

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073019\  
 Data File : VD063238.D  
 Acq On : 30 Jul 2019 13:37  
 Operator : VA/AP  
 Sample : K4043-15  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB203-GW-418-420

Quant Time: Jul 31 06:17:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.06  | 168  | 16850    | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 21001    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 19823    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 9738     | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 7.43   | 65  | 9328     | 49.89 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.78%  |      |
| 35) Dibromofluoromethane    | 6.90   | 113 | 9765     | 54.46 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.92% |      |
| 50) Toluene-d8              | 10.40  | 98  | 20988    | 52.30 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.60% |      |
| 62) 4-Bromofluorobenzene    | 13.55  | 95  | 8105     | 44.32 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.64%  |      |

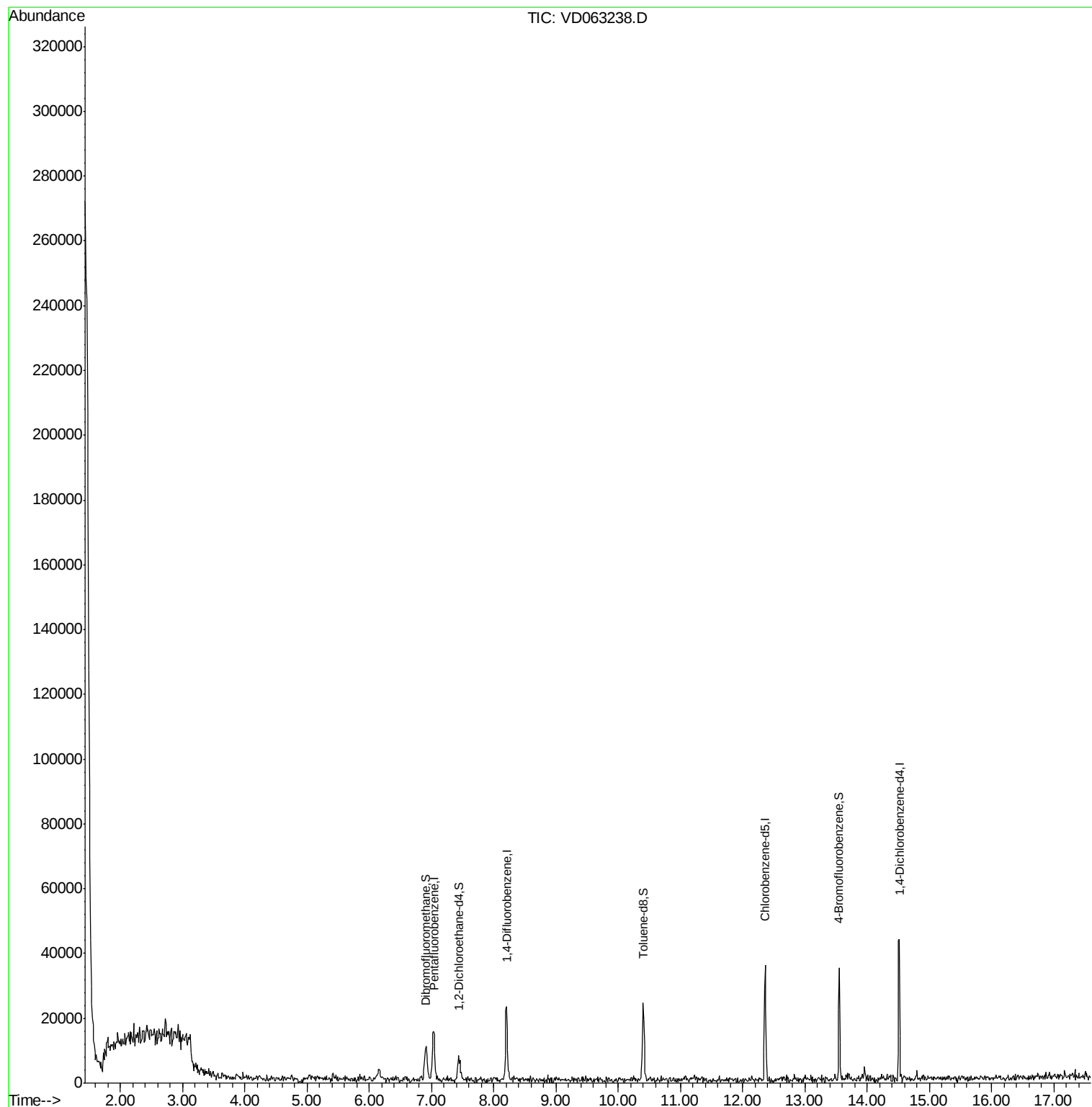
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

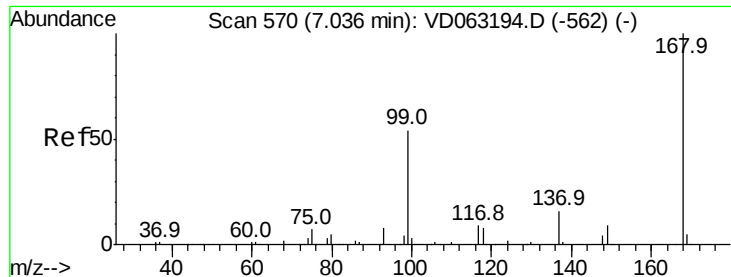
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
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BP-VPB203-GW-418-420

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:04:50 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063238.D

Acq: 30 Jul 2019 13:37

Instrument :

MSVOA\_D

ClientSampleId :

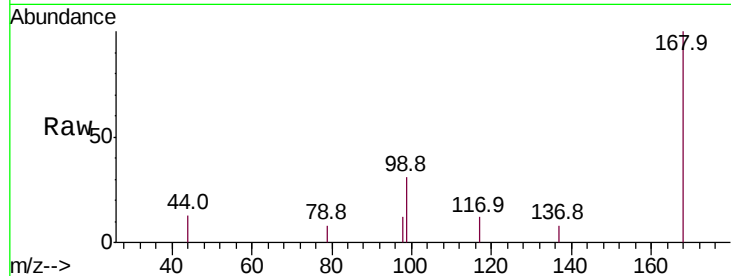
BP-VPB203-GW-418-420

Tot Ion:168 Resp: 16850

Ion Ratio Lower Upper

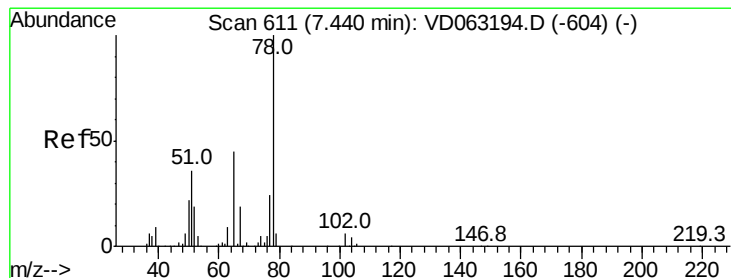
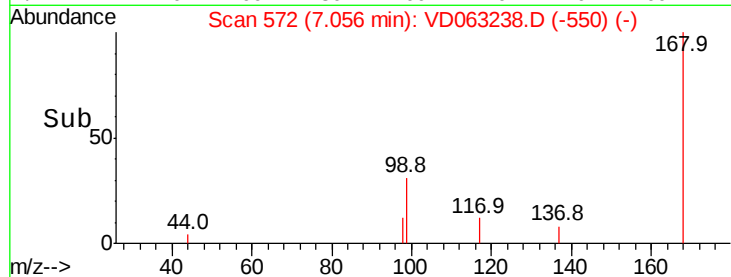
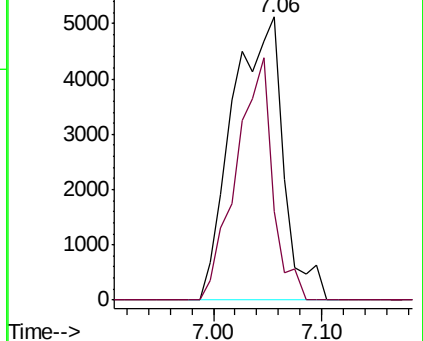
168 100

99 31.2 43.7 65.5#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#33

1,2-Dichloroethane-d4

Concen: 49.891 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.01 min

Lab File: VD063238.D

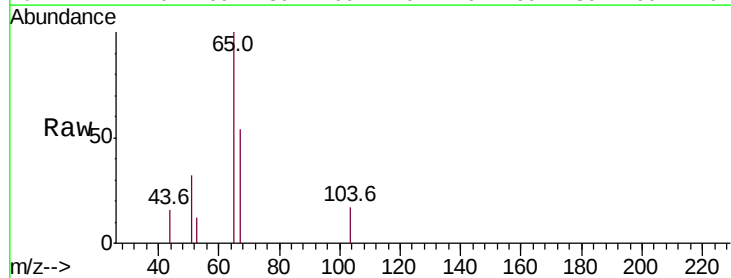
Acq: 30 Jul 2019 13:37

Tgt Ion: 65 Resp: 9328

Ion Ratio Lower Upper

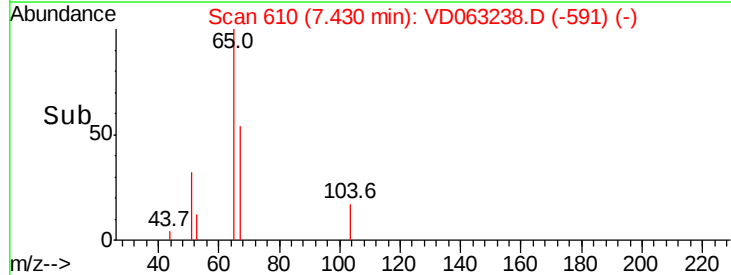
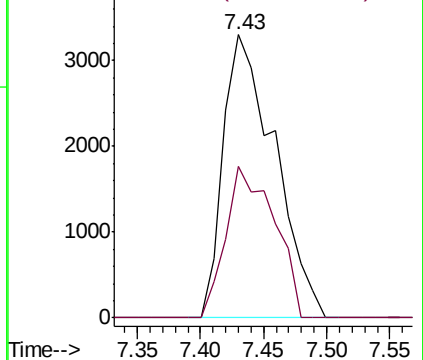
65 100

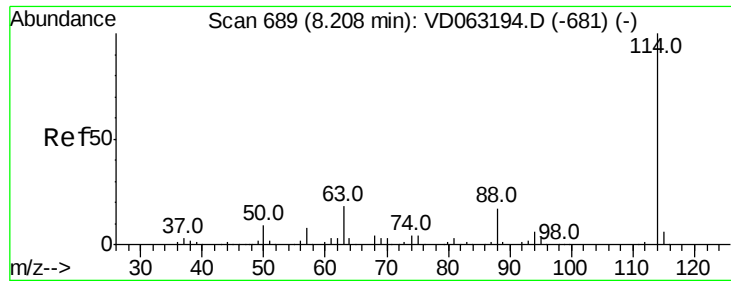
67 53.6 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

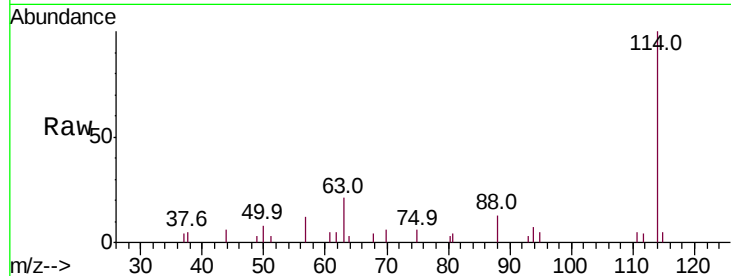




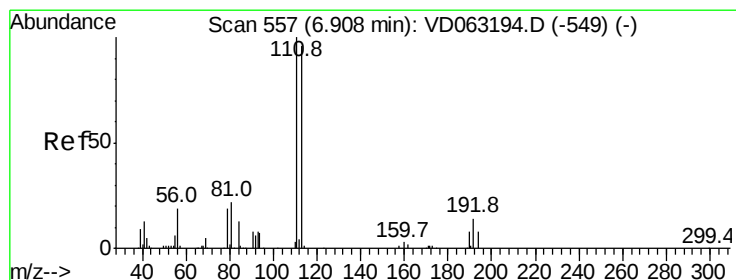
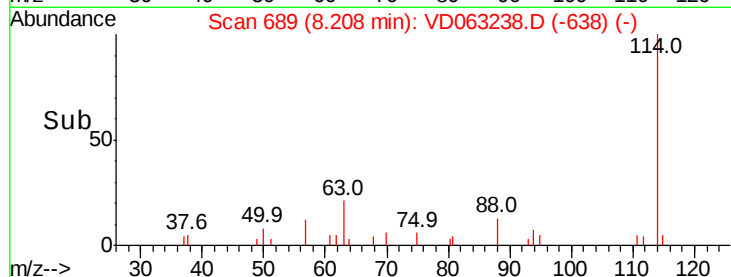
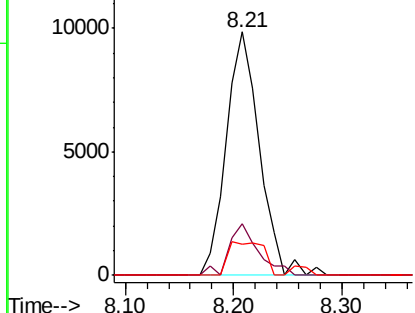
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.21 min Scan# 689  
 Delta R.T. 0.00 min  
 Lab File: VD063238.D  
 Acq: 30 Jul 2019 13:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB203-GW-418-420

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.4  | 0.0   | 35.2  |
| 88      | 12.7  | 0.0   | 34.6  |

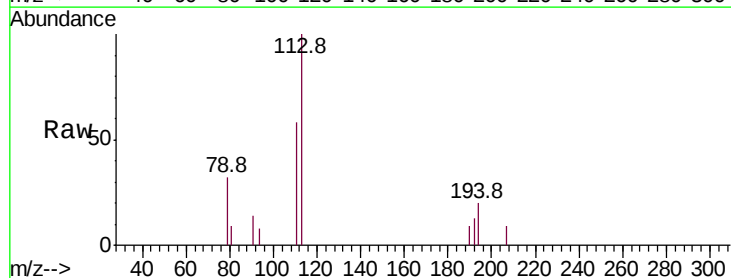


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

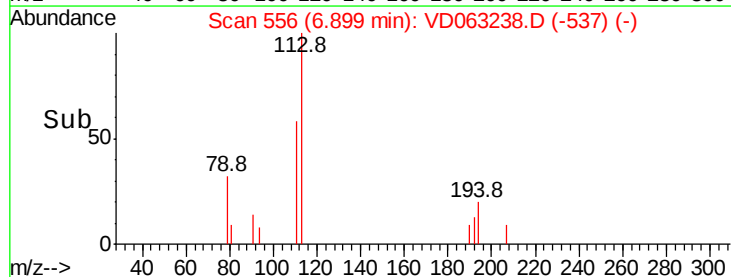
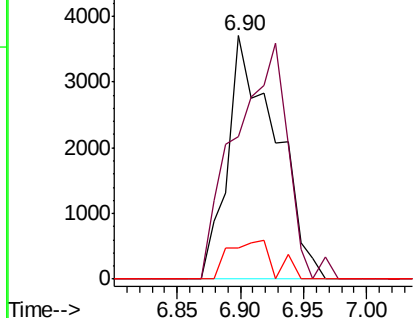


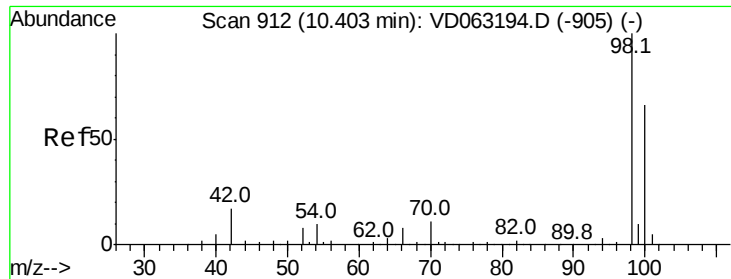
#35  
 Dibromofluoromethane  
 Concen: 54.461 ug/l  
 RT: 6.90 min Scan# 556  
 Delta R.T. -0.01 min  
 Lab File: VD063238.D  
 Acq: 30 Jul 2019 13:37

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 113     | 100   |       |        |
| 111     | 58.5  | 83.2  | 124.8# |
| 192     | 12.9  | 11.8  | 17.8   |



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

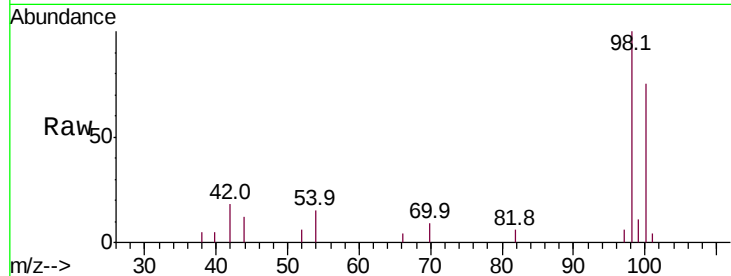




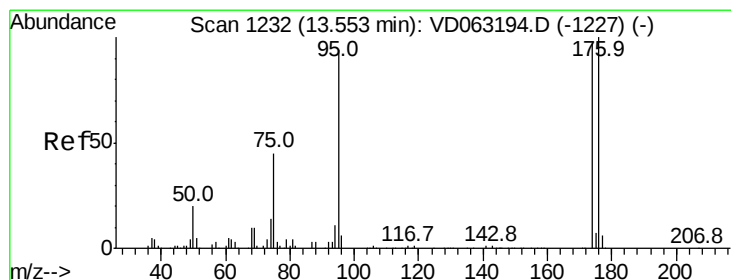
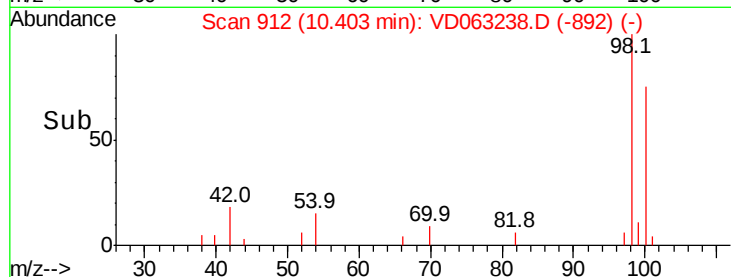
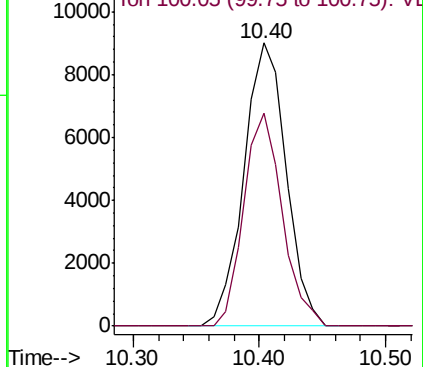
#50  
Toluene-d8  
Concen: 52.303 ug/l  
RT: 10.40 min Scan# 912  
Delta R.T. 0.00 min  
Lab File: VD063238.D  
Acq: 30 Jul 2019 13:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB203-GW-418-420

Tot Ion: 98 Resp: 20988  
Ion Ratio Lower Upper  
98 100  
100 75.4 53.2 79.8

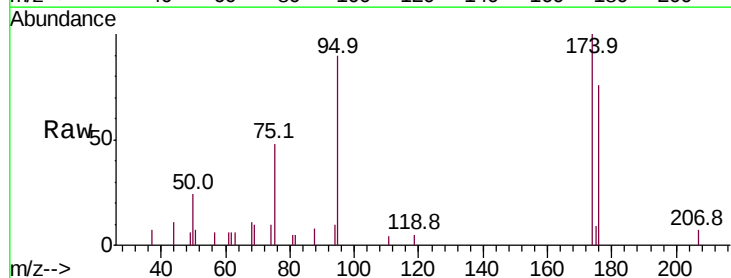


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

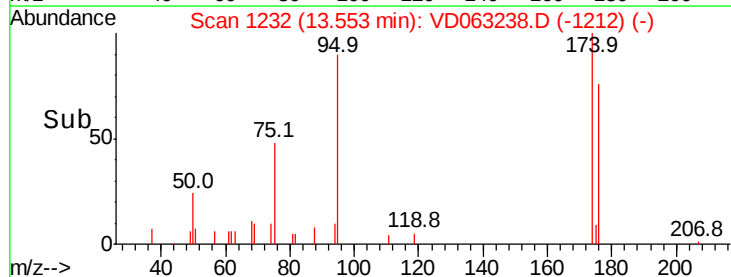
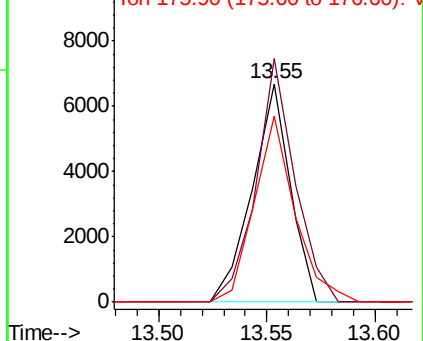


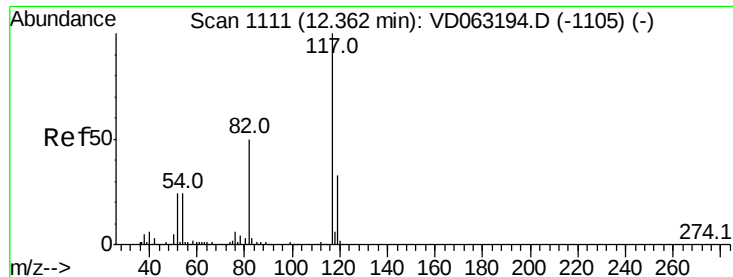
#62  
4-Bromofluorobenzene  
Concen: 44.323 ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. 0.00 min  
Lab File: VD063238.D  
Acq: 30 Jul 2019 13:37

Tgt Ion: 95 Resp: 8105  
Ion Ratio Lower Upper  
95 100  
174 111.7 0.0 205.4  
176 85.2 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): VDC  
Ion 173.90 (173.60 to 174.60): VDC  
Ion 175.90 (175.60 to 176.60): VDC

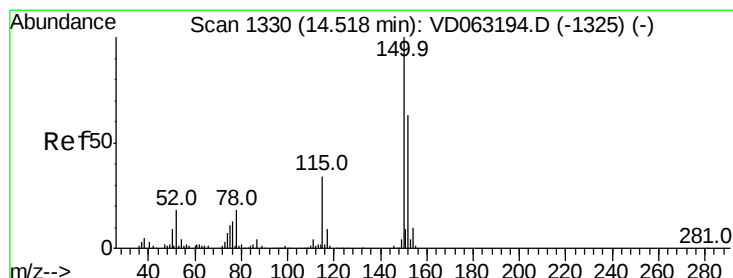
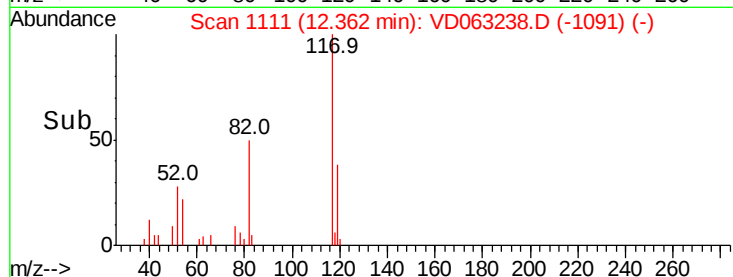
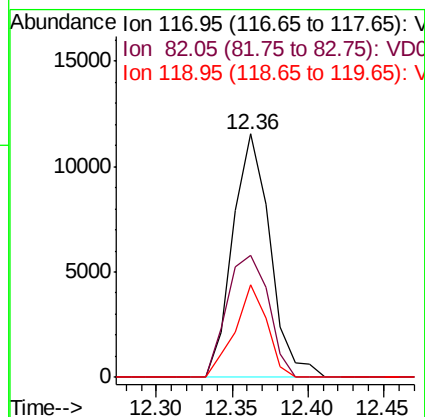
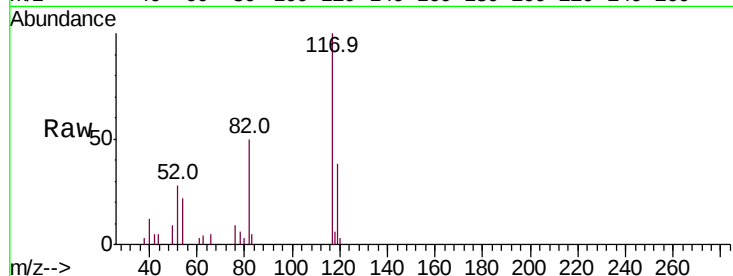




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. 0.00 min  
Lab File: VD063238.D  
Acq: 30 Jul 2019 13:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB203-GW-418-420

Tot Ion:117 Resp: 19823  
Ion Ratio Lower Upper  
117 100  
82 50.2 40.1 60.1  
119 37.9 26.5 39.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VD063238.D  
Acq: 30 Jul 2019 13:37

Tgt Ion:152 Resp: 9738  
Ion Ratio Lower Upper  
152 100  
115 50.8 27.5 82.4  
150 137.5 0.0 320.6

