

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111819\  
 Data File : VD064268.D  
 Acq On : 18 Nov 2019 16:57  
 Operator : VA/SY  
 Sample : K5839-02RE  
 Misc : 5.66G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 19 04:39:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 12 02:43:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 836647   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 1237148  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 1105903  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 538731   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 393179   | 57.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.28% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 384513   | 54.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.30% |          |
| 50) Toluene-d8              | 10.34 | 98   | 1436161  | 53.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.22% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 474312   | 51.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.26% |          |

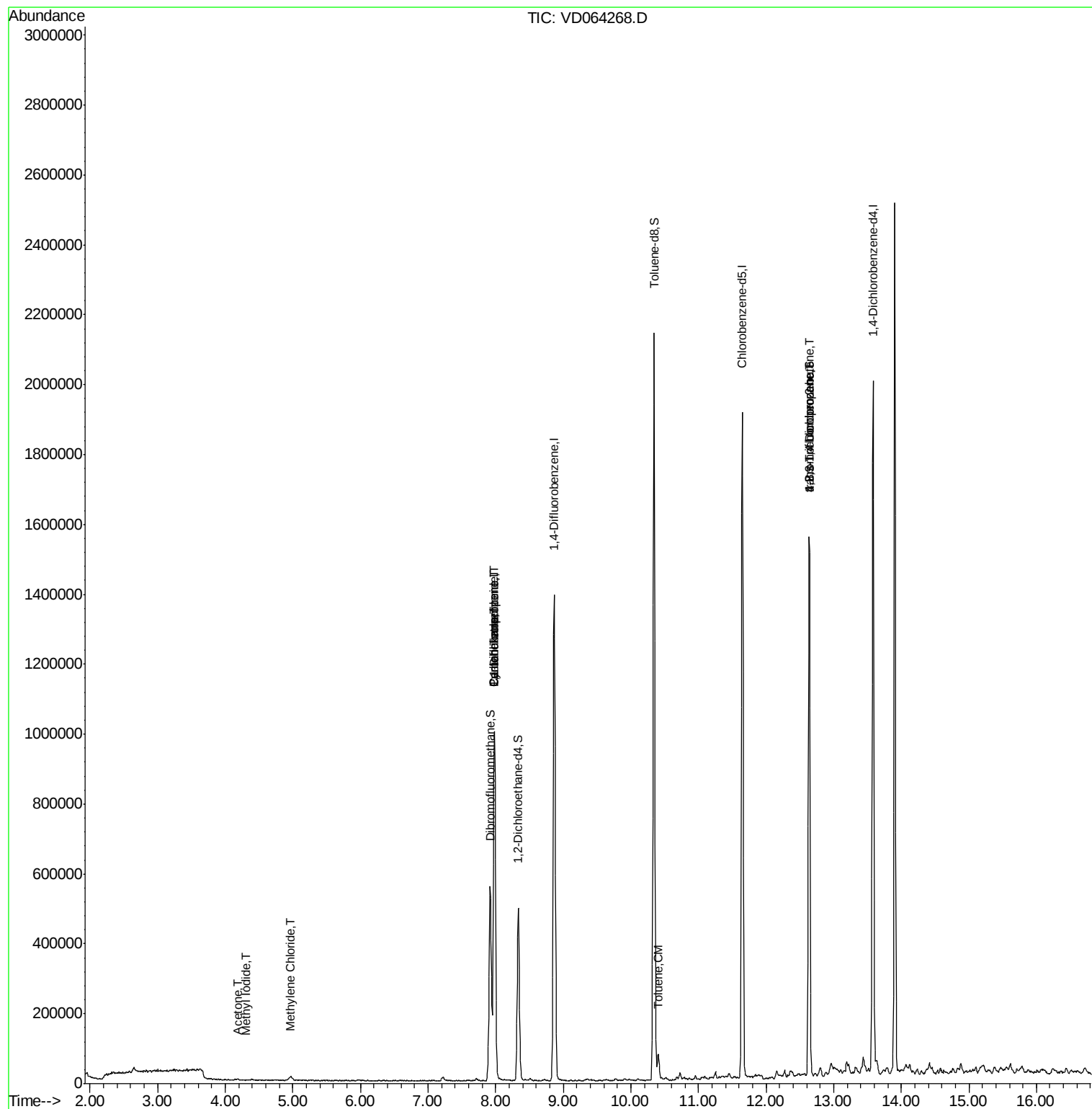
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 10) Methyl Iodide              | 4.30  | 142  | 90       | 2.042   | ug/l # | 56     |
| 16) Acetone                    | 4.18  | 43   | 6134     | 3.763   | ug/l   | 91     |
| 20) Methylene Chloride         | 4.96  | 84   | 9088     | 1.104   | ug/l # | 77     |
| 31) Cyclohexane                | 7.98  | 56   | 15989    | 1.184   | ug/l # | 2      |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 55151    | 4.830   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 73491    | 6.015   | ug/l # | 15     |
| 52) Toluene                    | 10.41 | 92   | 30039    | 1.464   | ug/l   | 94     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 248629   | 57.297  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 248629   | 113.814 | ug/l # | 10     |

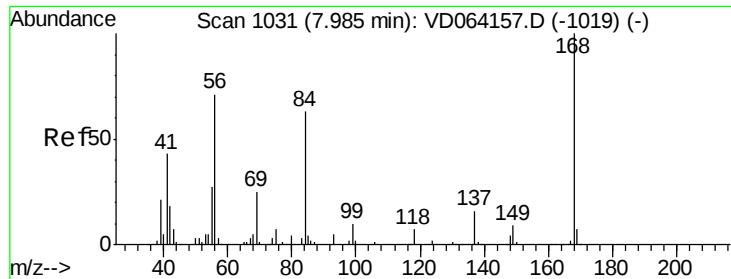
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111819\  
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Sample : K5839-02RE  
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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Nov 19 04:39:07 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 12 02:43:24 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064268.D

Acq: 18 Nov 2019 16:57

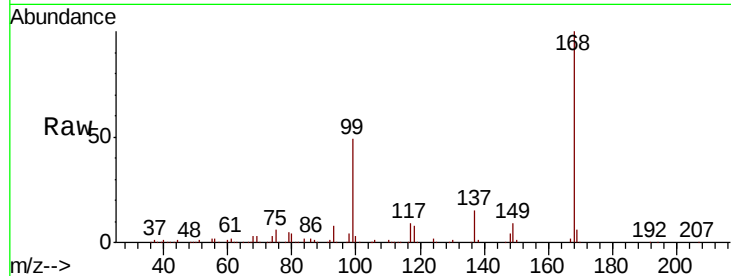
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 836647

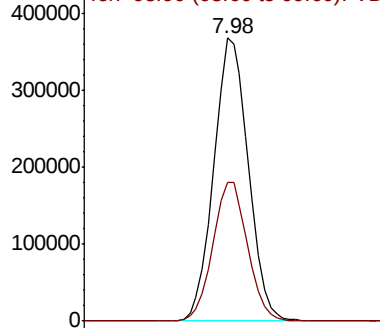
Ion Ratio Lower Upper

168 100

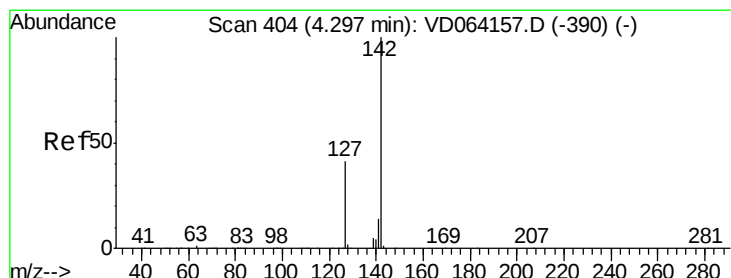
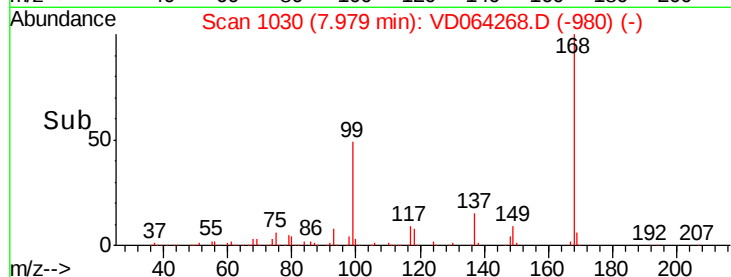
99 49.1 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V  
Ion 98.90 (98.60 to 99.60): V



Time-->



#10

Methyl Iodide

Concen: 2.042 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD064268.D

Acq: 18 Nov 2019 16:57

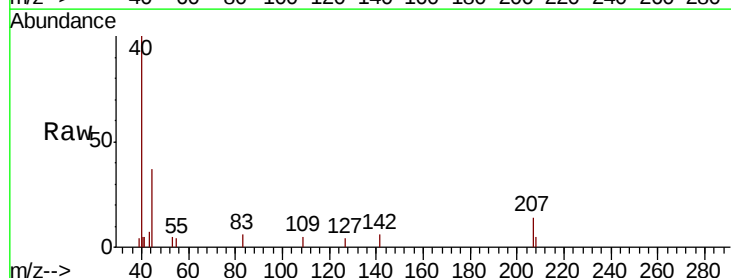
Tgt Ion:142 Resp: 90

Ion Ratio Lower Upper

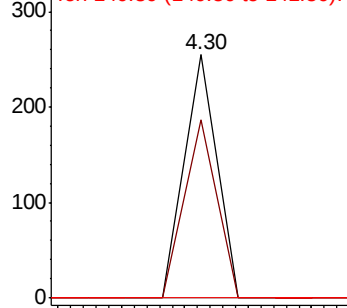
142 100

127 73.3 34.4 51.6#

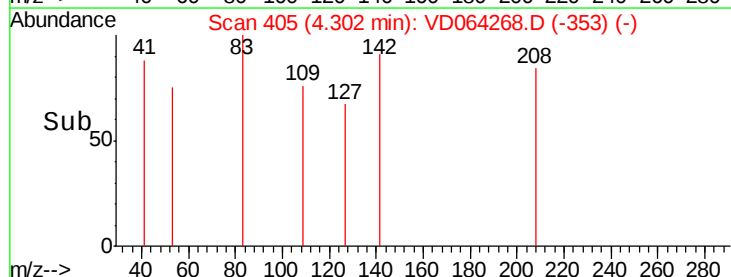
141 0.0 11.2 16.8#

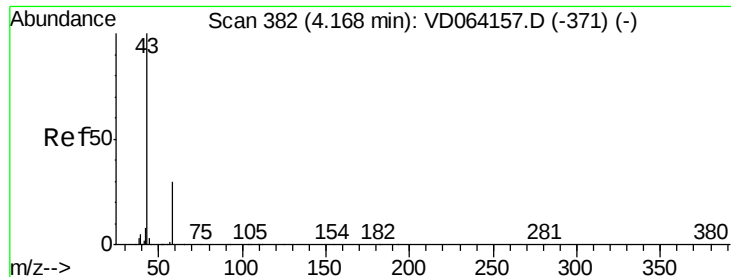


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V



Time-->

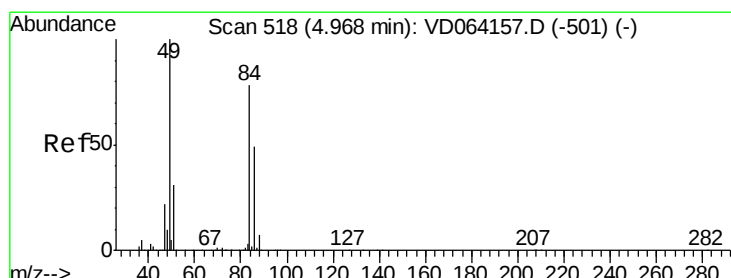
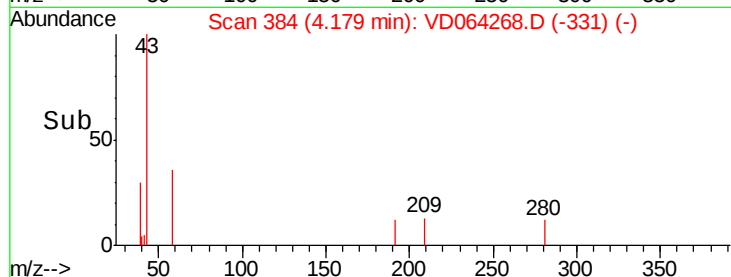
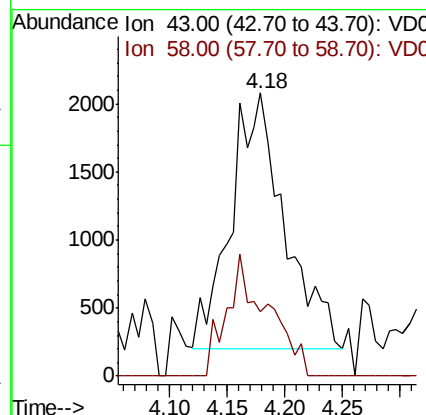
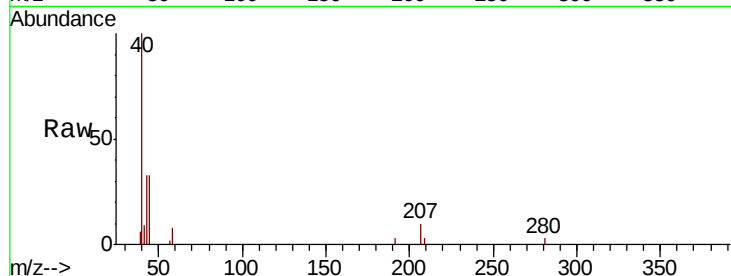




#16  
Acetone  
Concen: 3.763 ug/l  
RT: 4.18 min Scan# 384  
Delta R.T. 0.01 min  
Lab File: VD064268.D  
Acq: 18 Nov 2019 16:57

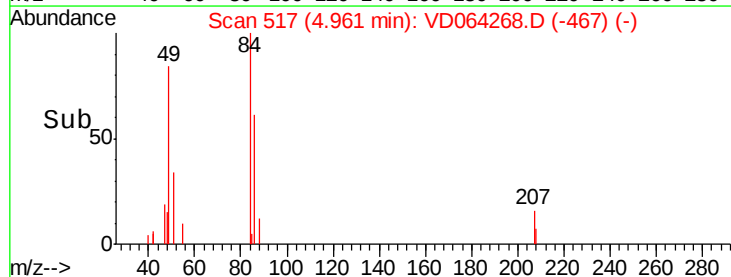
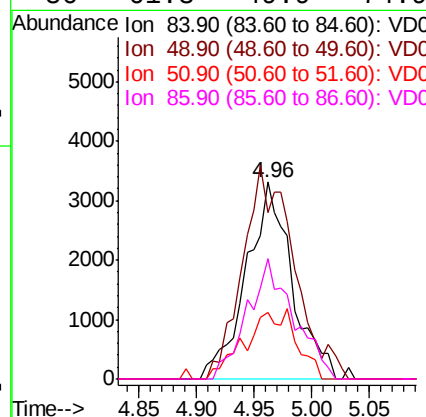
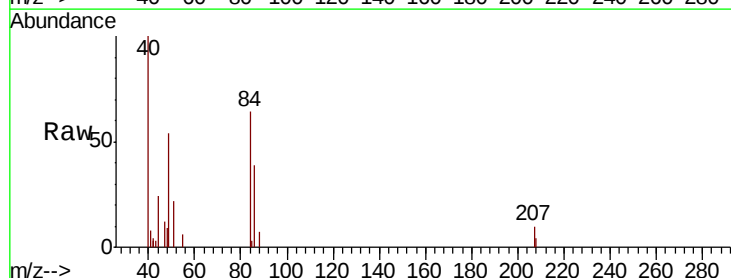
Instrument :  
MSVOA\_D  
ClientSampleId :

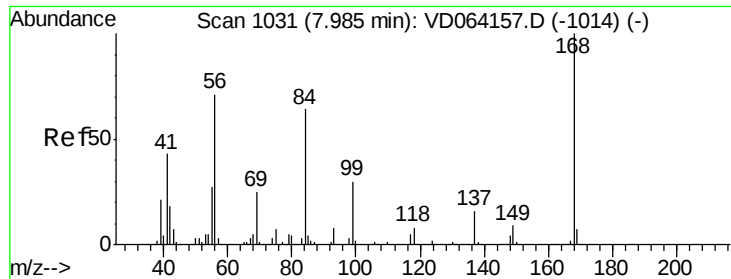
Tot Ion: 43 Resp: 6134  
Ion Ratio Lower Upper  
43 100  
58 25.3 24.1 36.1



#20  
Methylene Chloride  
Concen: 1.104 ug/l  
RT: 4.96 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: VD064268.D  
Acq: 18 Nov 2019 16:57

Tgt Ion: 84 Resp: 9088  
Ion Ratio Lower Upper  
84 100  
49 84.3 102.1 153.1#  
51 33.8 32.2 48.2  
86 61.3 49.9 74.9

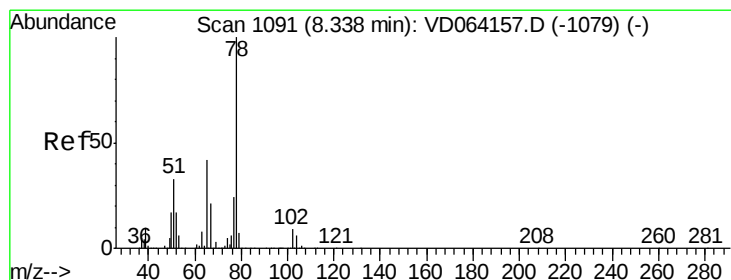
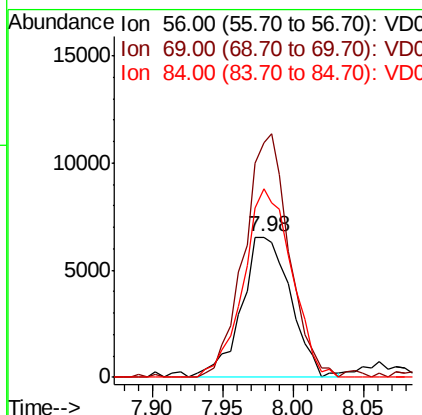
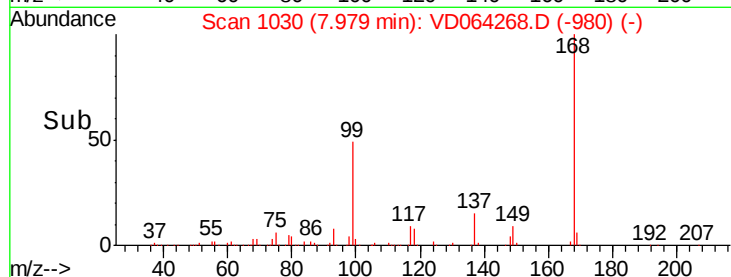
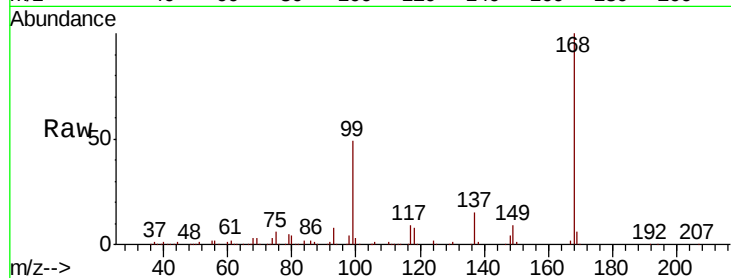




#31  
Cyclohexane  
Concen: 1.184 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD064268.D  
Acq: 18 Nov 2019 16:57

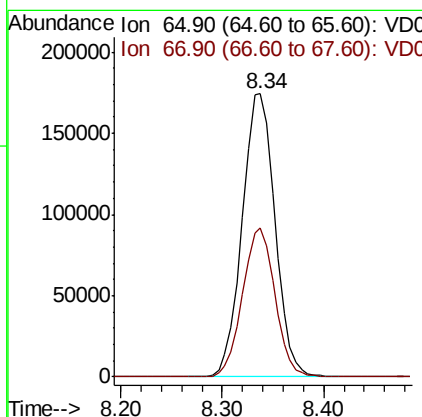
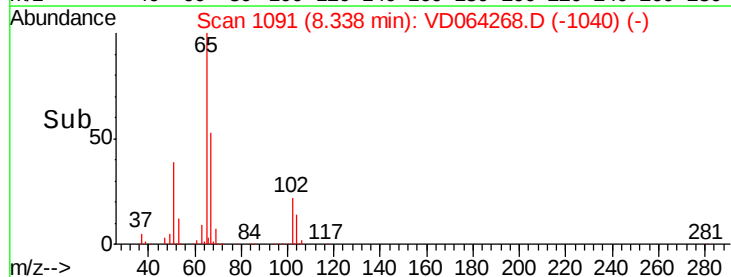
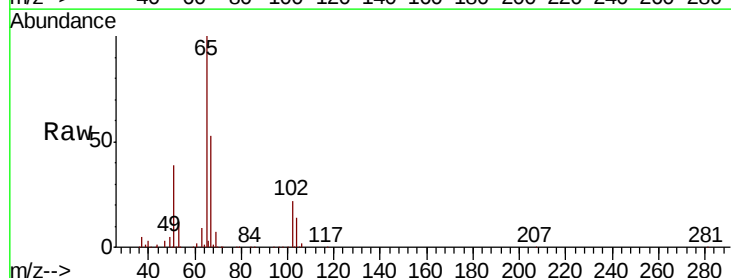
Instrument :  
MSVOA\_D  
ClientSampleId :

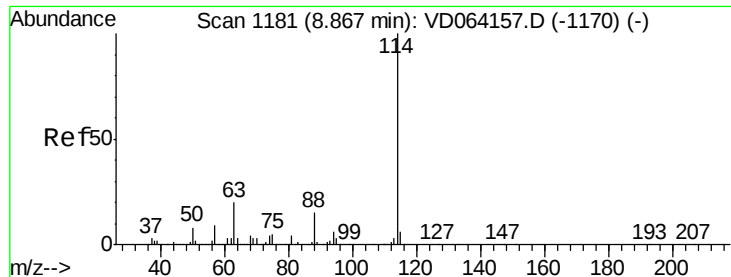
Tot Ion: 56 Resp: 15989  
Ion Ratio Lower Upper  
56 100  
69 167.4 28.2 42.4#  
84 134.8 71.8 107.6#



#33  
1,2-Dichloroethane-d4  
Concen: 57.140 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. -0.00 min  
Lab File: VD064268.D  
Acq: 18 Nov 2019 16:57

Tgt Ion: 65 Resp: 393179  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 104.4

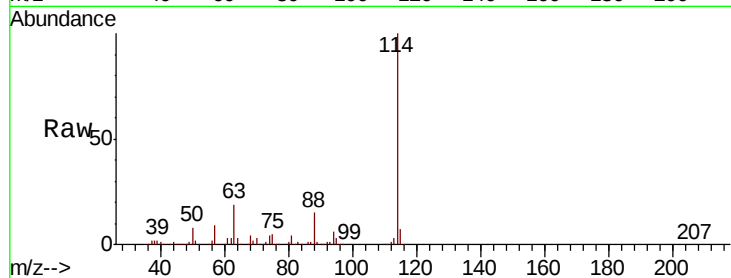




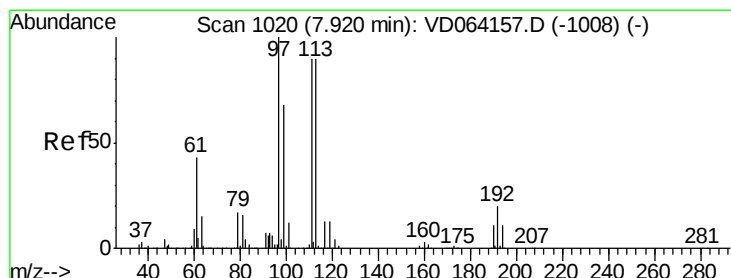
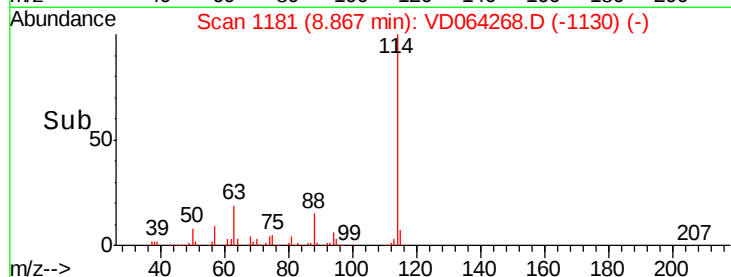
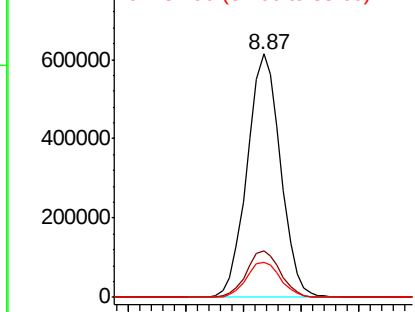
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD064268.D  
 Acq: 18 Nov 2019 16:57

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:114 Resp: 1237148  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 40.0  
 88 14.6 0.0 30.2

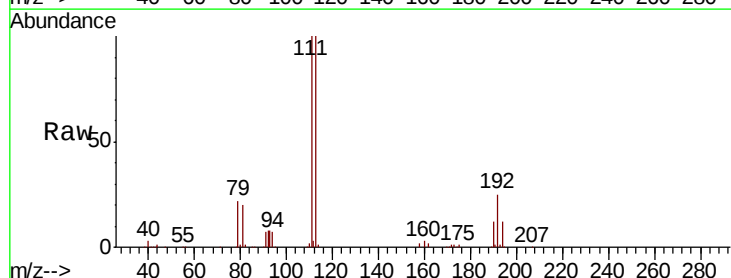


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

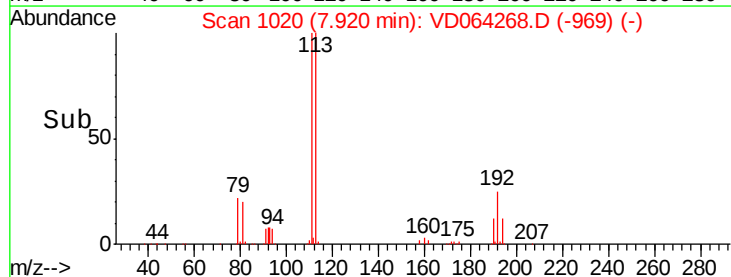
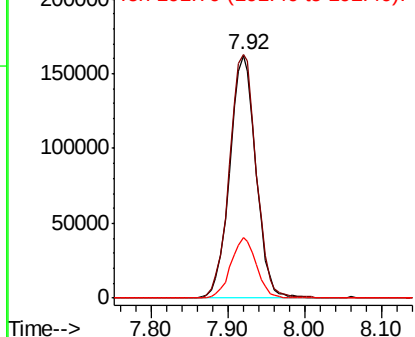


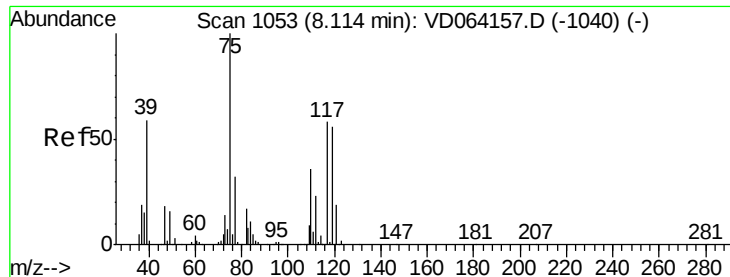
#35  
 Dibromofluoromethane  
 Concen: 54.146 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD064268.D  
 Acq: 18 Nov 2019 16:57

Tgt Ion:113 Resp: 384513  
 Ion Ratio Lower Upper  
 113 100  
 111 102.3 81.5 122.3  
 192 24.3 18.8 28.2



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.830 ug/l

RT: 7.98 min Scan# 1031

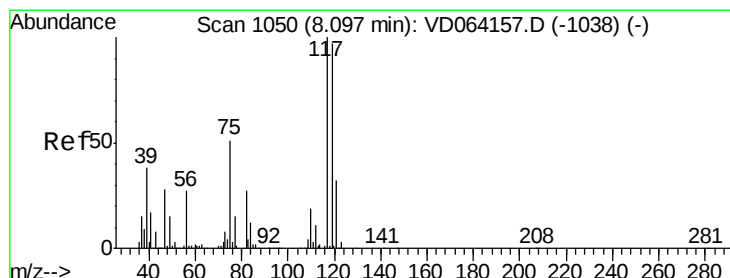
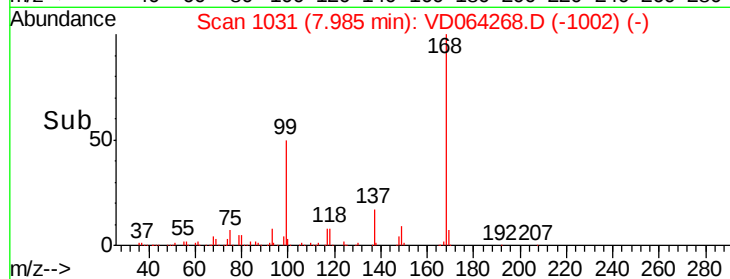
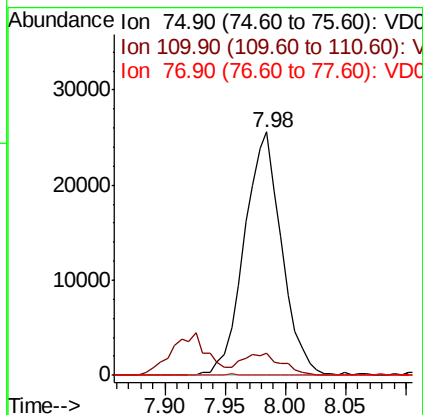
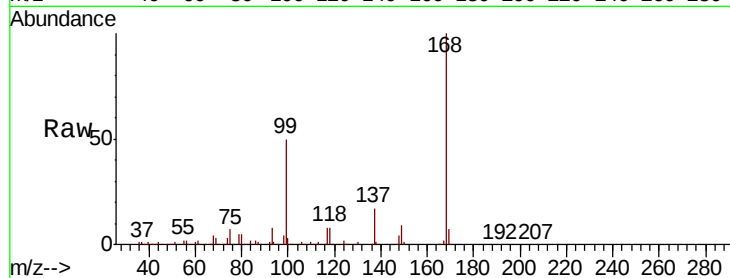
Delta R.T. -0.13 min

Lab File: VD064268.D

Acq: 18 Nov 2019 16:57

Instrument :  
MSVOA\_D  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.1  | 18.3  | 54.9# |
| 77      | 0.0   | 25.0  | 37.6# |



#38

Carbon Tetrachloride

Concen: 6.015 ug/l

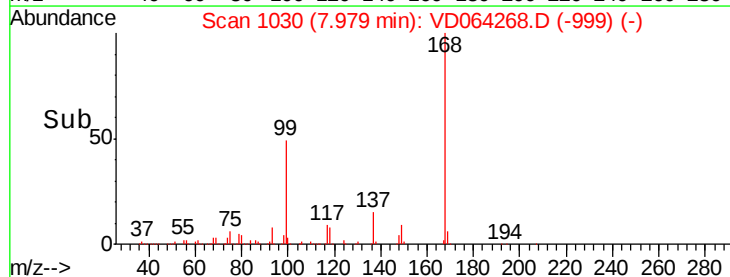
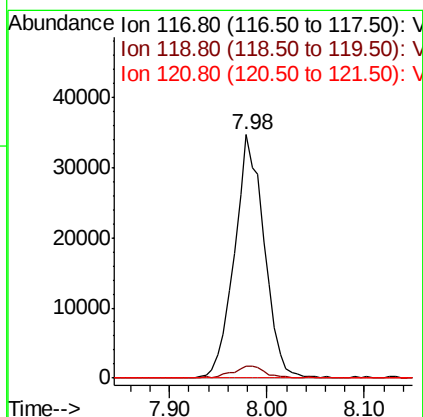
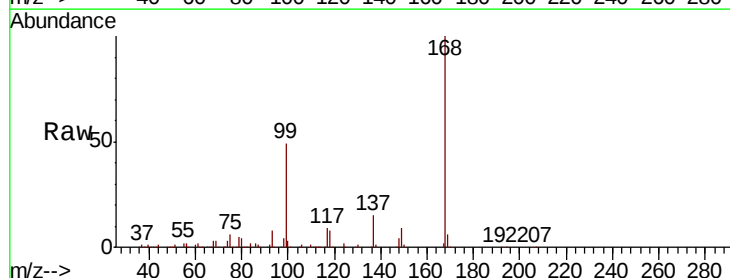
RT: 7.98 min Scan# 1030

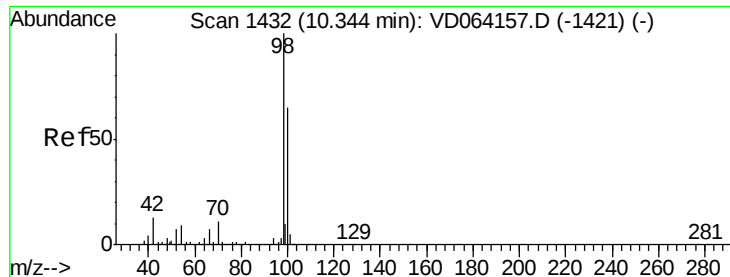
Delta R.T. -0.12 min

Lab File: VD064268.D

Acq: 18 Nov 2019 16:57

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.8   | 77.2  | 115.8# |
| 121     | 0.0   | 25.5  | 38.3#  |





#50

Toluene-d8

Concen: 53.609 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064268.D

Acq: 18 Nov 2019 16:57

Instrument :

MSVOA\_D

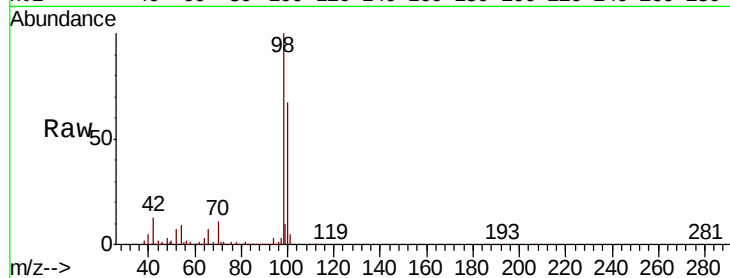
ClientSampled :

Tot Ion: 98 Resp: 1436161

Ion Ratio Lower Upper

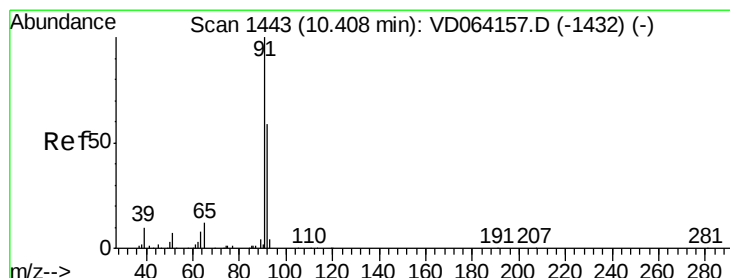
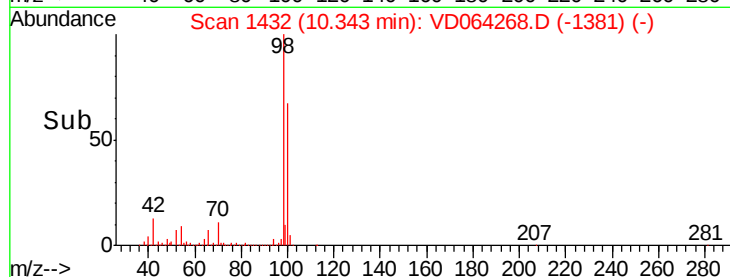
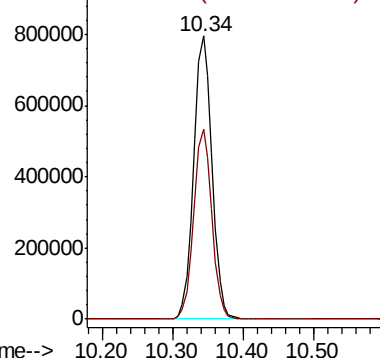
98 100

100 66.2 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#52

Toluene

Concen: 1.464 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD064268.D

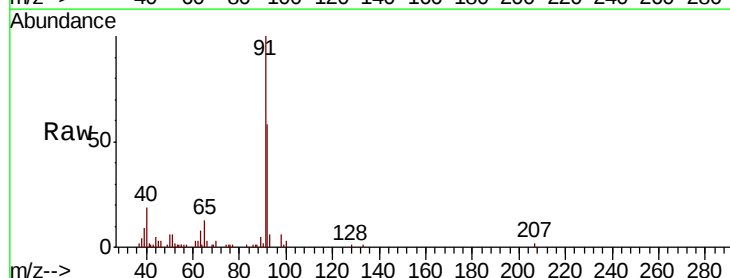
Acq: 18 Nov 2019 16:57

Tgt Ion: 92 Resp: 30039

Ion Ratio Lower Upper

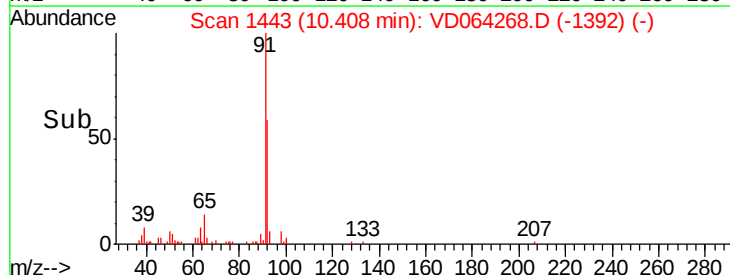
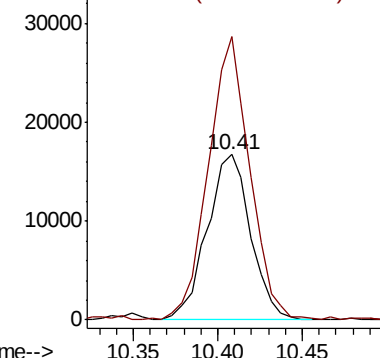
92 100

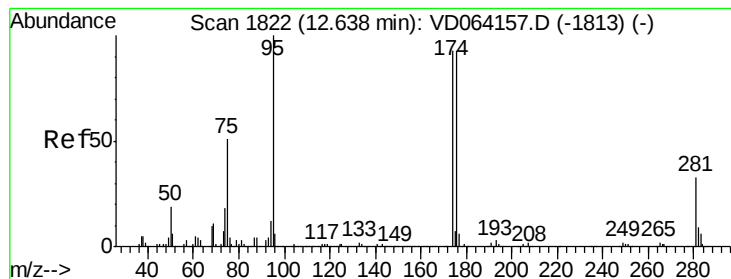
91 162.6 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: 51.125 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064268.D

Acq: 18 Nov 2019 16:57

Instrument :

MSVOA\_D

ClientSampleId :

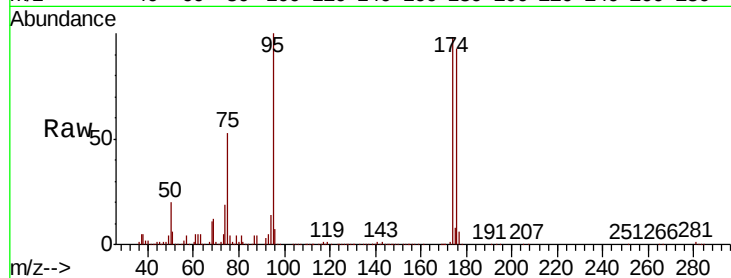
Tot Ion: 95 Resp: 474312

Ion Ratio Lower Upper

95 100

174 98.7 0.0 183.6

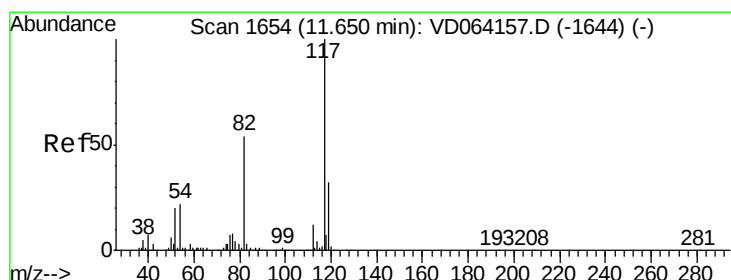
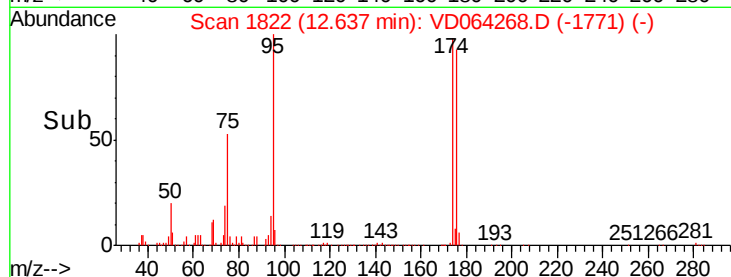
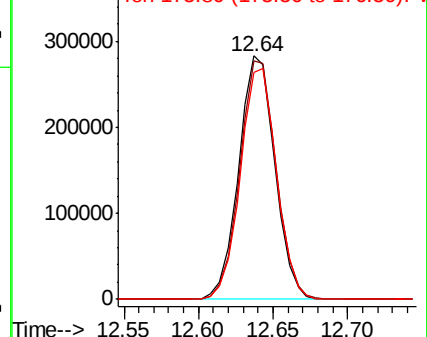
176 95.1 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD064268.D

Acq: 18 Nov 2019 16:57

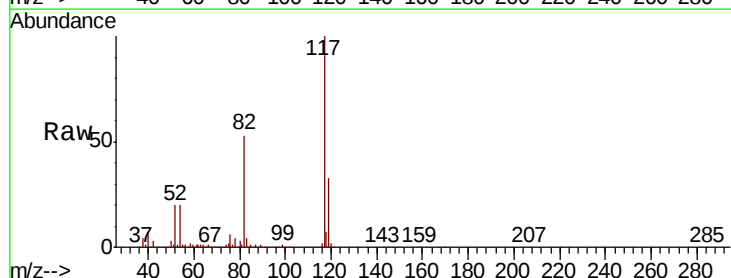
Tgt Ion: 117 Resp: 1105903

Ion Ratio Lower Upper

117 100

82 52.9 42.8 64.2

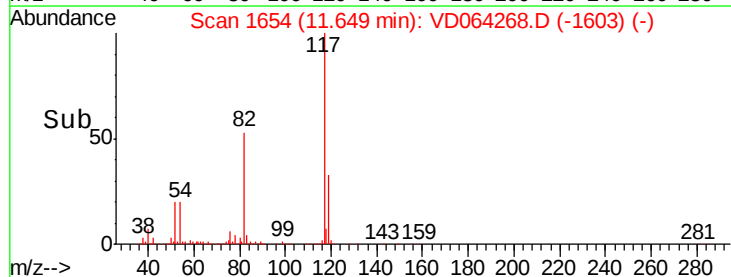
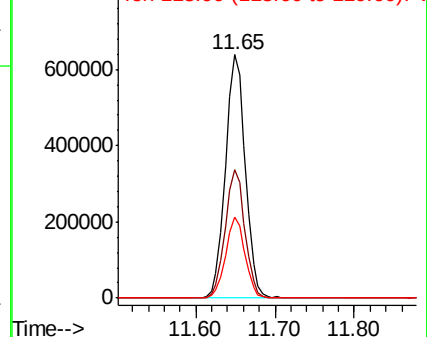
119 33.3 25.6 38.4

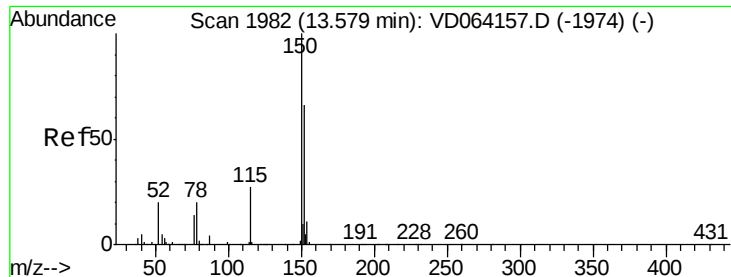


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



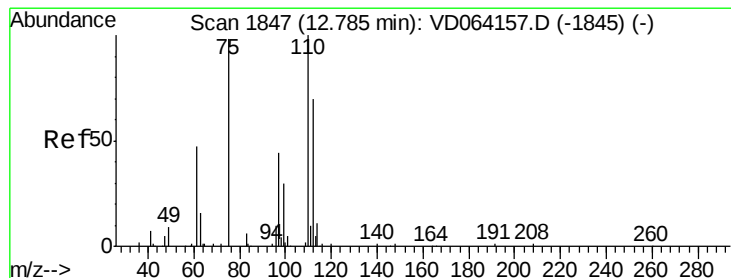
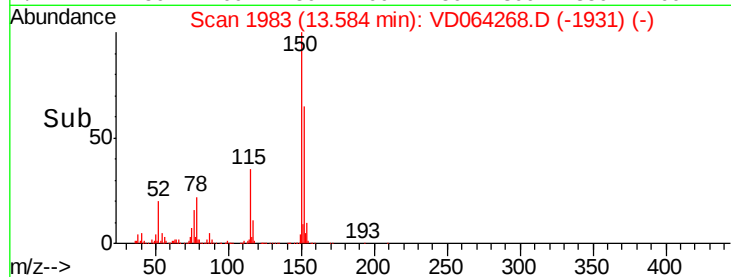
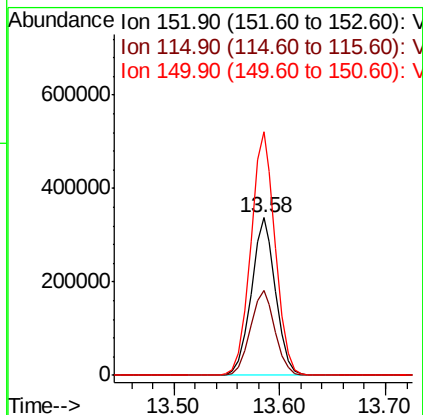
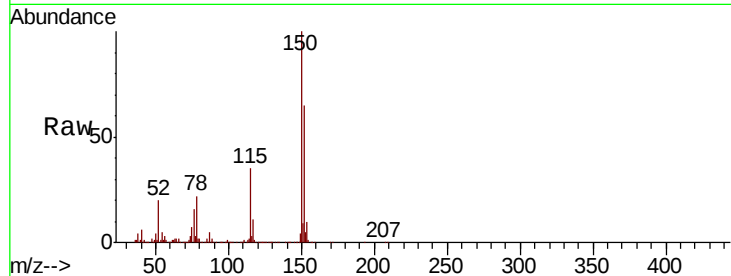


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VD064268.D  
Acq: 18 Nov 2019 16:57

Instrument :  
MSVOA\_D  
ClientSampleId :

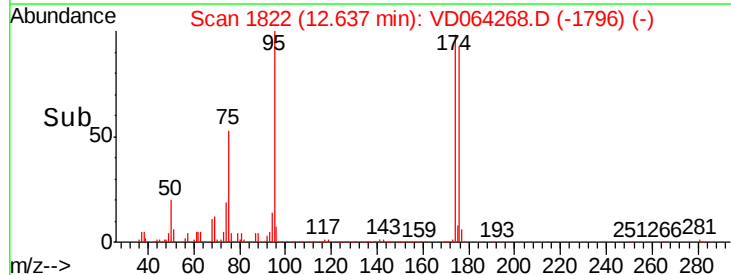
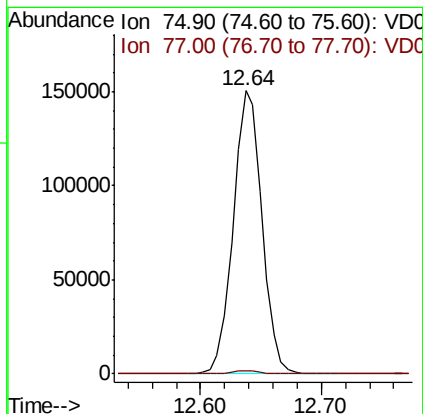
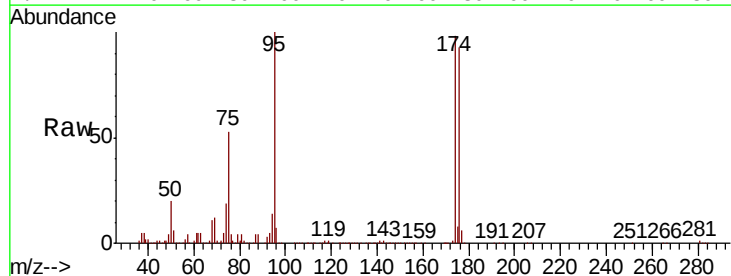
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.9  | 27.4  | 82.2  |
| 150     | 155.7 | 0.0   | 351.6 |

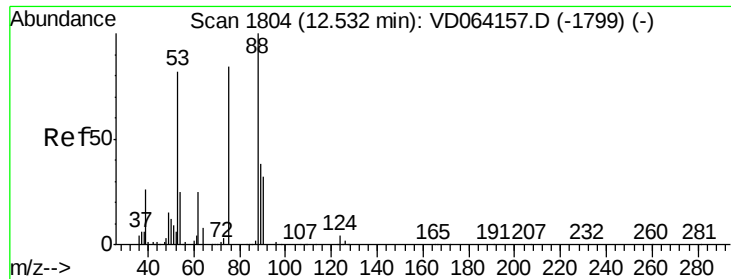


#76

1,2,3-Trichloropropane  
Concen: 57.297 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.15 min  
Lab File: VD064268.D  
Acq: 18 Nov 2019 16:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.5   | 0.0   | 0.0#  |





#81

trans-1,4-Dichloro-2-butene

Concen: 113.814 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064268.D

Acq: 18 Nov 2019 16:57

Instrument :

MSVOA\_D

ClientSampleId :

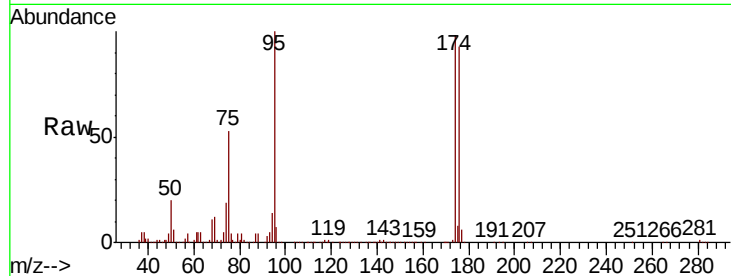
Tot Ion: 75 Resp: 248629

Ion Ratio Lower Upper

75 100

53 0.0 79.4 119.0#

89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC  
 200000 Ion 53.00 (52.70 to 53.70): VDC  
 150000 Ion 88.90 (88.60 to 89.60): VDC

