

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\  
 Data File : VD061832.D  
 Acq On : 17 Apr 2019 3:44  
 Operator : VA/AP  
 Sample : K2389-03  
 Misc : 5.02g/5ml/MSVOA D/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 17 05:06:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 16 08:53:01 2019  
 Response via : Initial Calibration

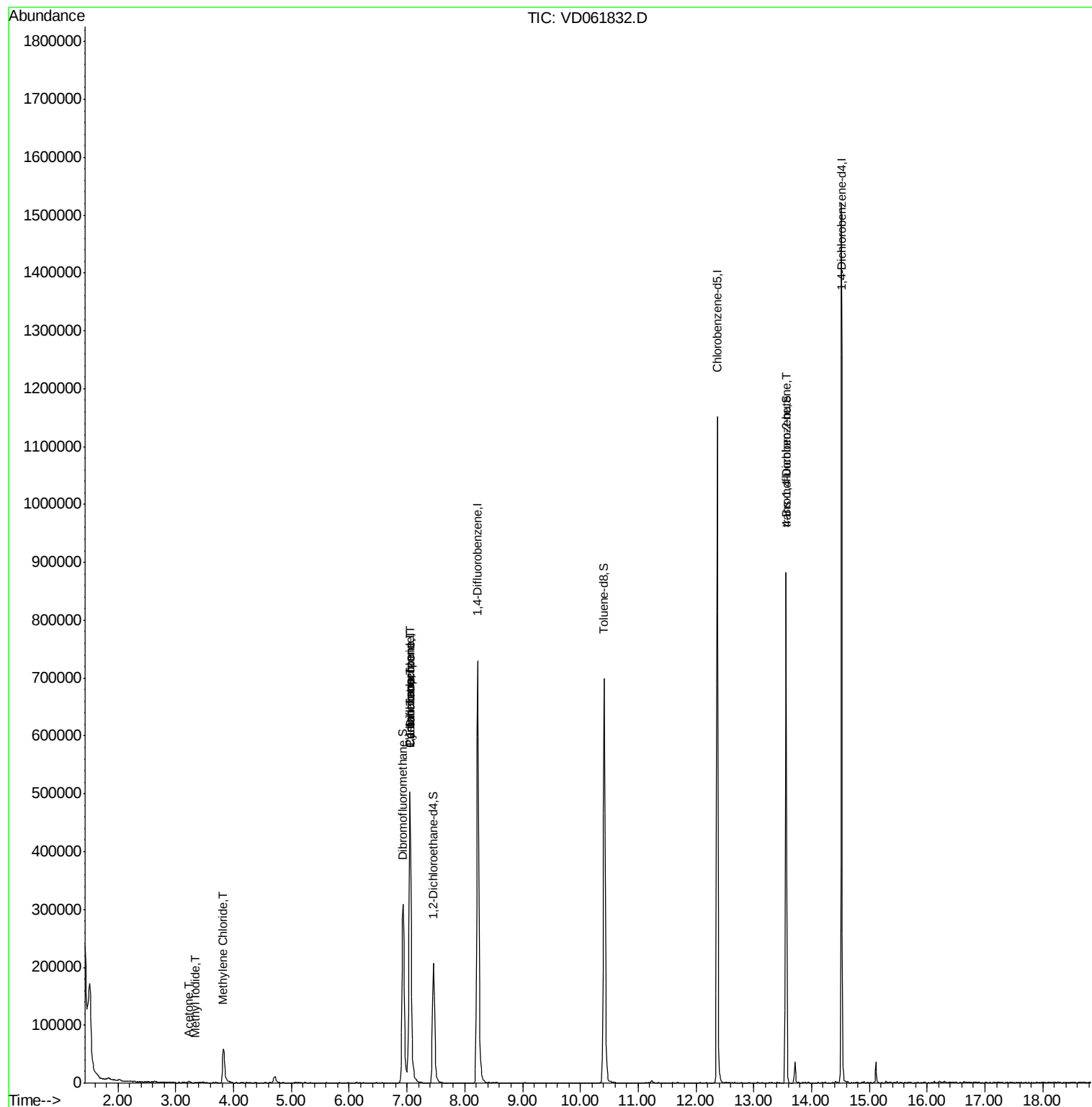
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 7.05  | 168  | 508870   | 50.00     | ug/l   | -0.04    |
| 34) 1,4-Difluorobenzene        | 8.22  | 114  | 903519   | 50.00     | ug/l   | -0.04    |
| 63) Chlorobenzene-d5           | 12.37 | 117  | 708379   | 50.00     | ug/l   | -0.03    |
| 72) 1,4-Dichlorobenzene-d4     | 14.51 | 152  | 369522   | 50.00     | ug/l   | -0.02    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 7.46  | 65   | 203981   | 47.83     | ug/l   | -0.04    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 95.66% |          |
| 35) Dibromofluoromethane       | 6.93  | 113  | 298383   | 43.71     | ug/l   | -0.04    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 87.42% |          |
| 50) Toluene-d8                 | 10.42 | 98   | 654226   | 40.45     | ug/l   | -0.03    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 80.90% |          |
| 62) 4-Bromofluorobenzene       | 13.56 | 95   | 274916   | 41.94     | ug/l   | -0.02    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 83.88% |          |
| Target Compounds               |       |      |          |           |        |          |
|                                |       |      |          |           | Qvalue |          |
| 5) Bromomethane                | 2.18  | 94   | 679      | Below Cal | #      | 12       |
| 10) Methyl Iodide              | 3.32  | 142  | 421      | 3.558     | ug/l # | 37       |
| 16) Acetone                    | 3.23  | 43   | 4263     | 4.056     | ug/l # | 50       |
| 20) Methylene Chloride         | 3.82  | 84   | 42637    | 3.934     | ug/l   | 97       |
| 31) Cyclohexane                | 7.04  | 56   | 7640     | 1.183     | ug/l # | 1        |
| 36) 1,1-Dichloropropene        | 7.05  | 75   | 36381    | 4.928     | ug/l # | 46       |
| 38) Carbon Tetrachloride       | 7.05  | 117  | 48972    | 5.253     | ug/l # | 17       |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 105904   | 66.179    | ug/l # | 16       |

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

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Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Apr 17 05:06:04 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 16 08:53:01 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD061832.D

Acq: 17 Apr 2019 3:44

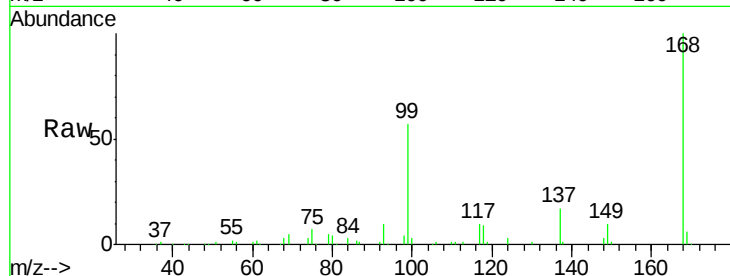
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:168 Resp: 508870

Ion Ratio Lower Upper

168 100

99 56.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

150000

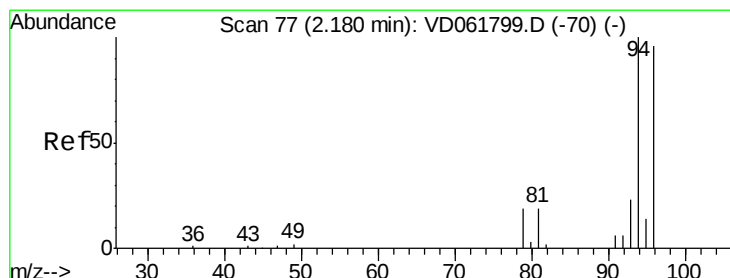
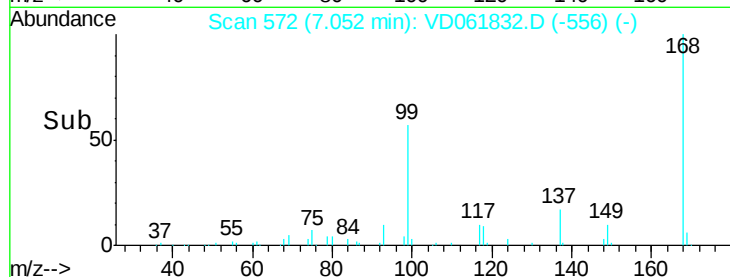
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.18 min Scan# 77

Delta R.T. -0.00 min

Lab File: VD061832.D

Acq: 17 Apr 2019 3:44

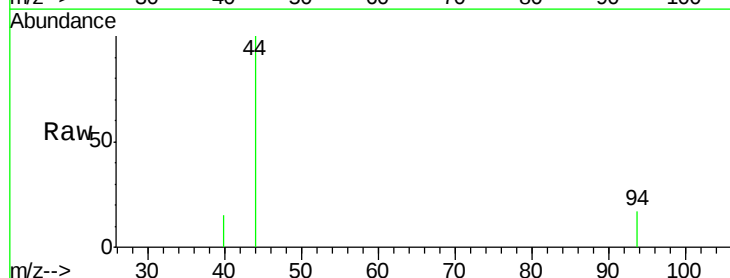
Tgt Ion: 94 Resp: 679

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2.18

600

500

400

300

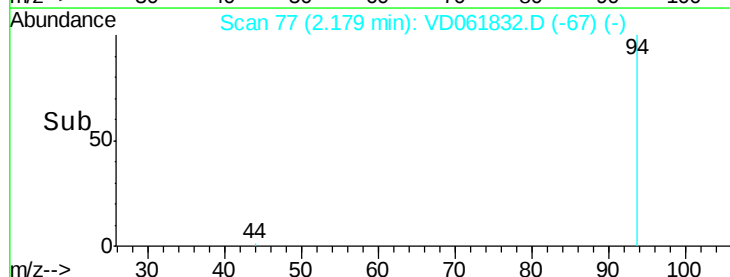
200

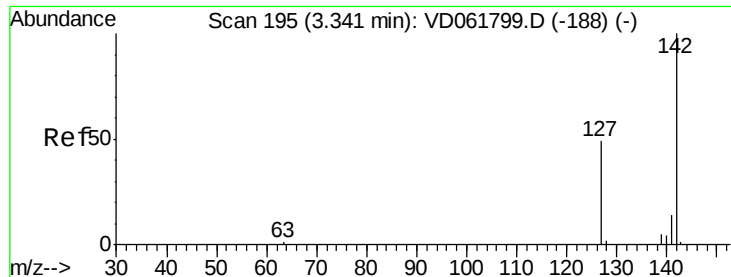
100

0

2.15 2.20

Time-->

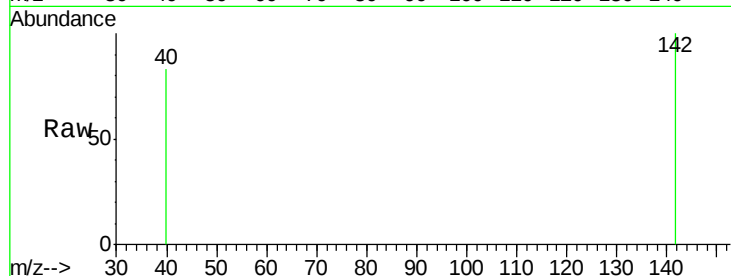




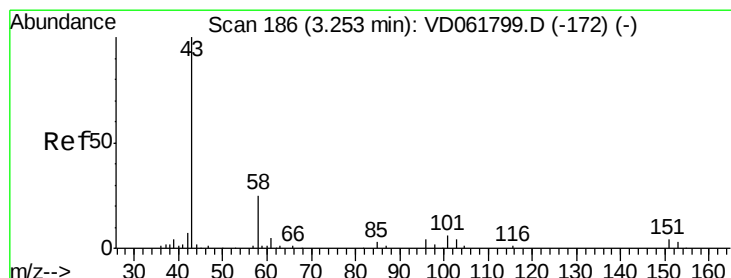
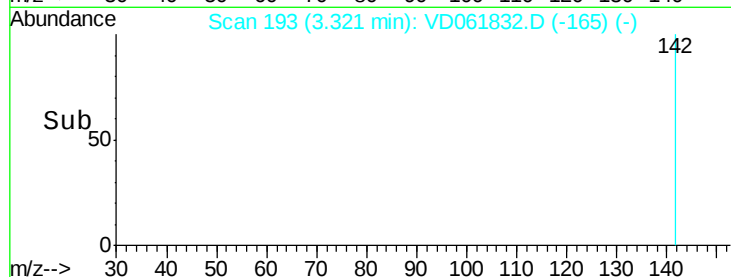
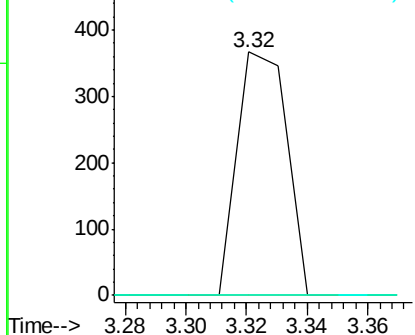
#10  
Methvl Iodide  
Concen: 3.558 ug/l  
RT: 3.32 min Scan# 193  
Delta R.T. -0.02 min  
Lab File: VD061832.D  
Acq: 17 Apr 2019 3:44

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:142 Resp: 421  
Ion Ratio Lower Upper  
142 100  
127 0.0 38.8 58.2#  
141 0.0 11.4 17.0#

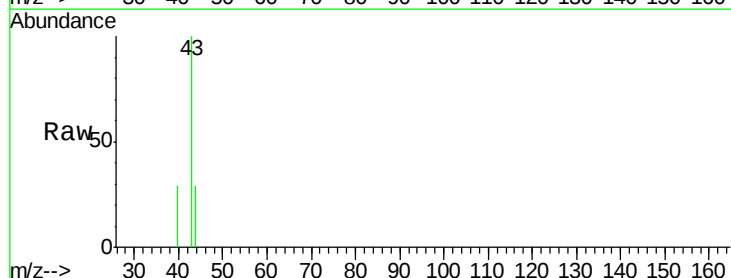


Abundance Ion 141.85 (141.55 to 142.55): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.85 (140.55 to 141.55): V

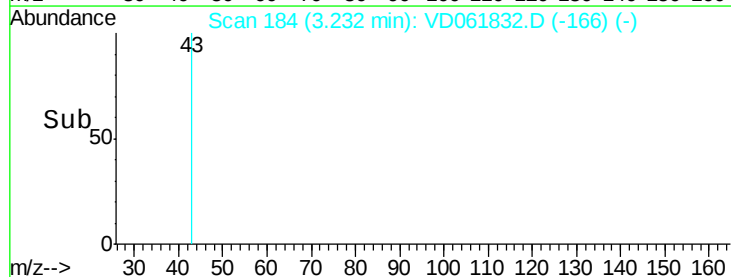
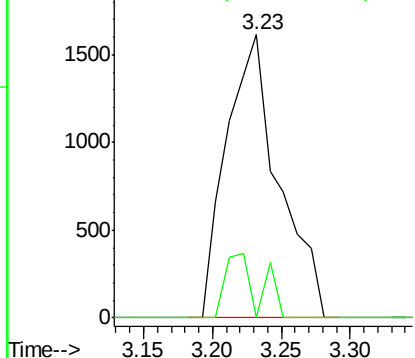


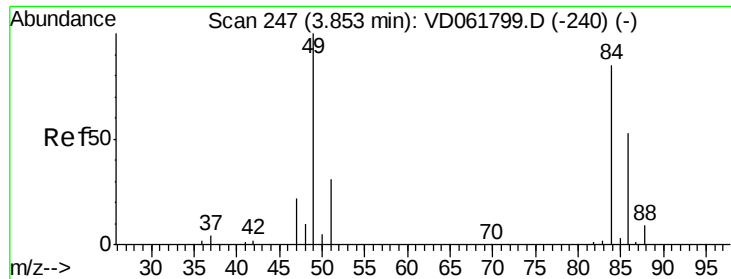
#16  
Acetone  
Concen: 4.056 ug/l  
RT: 3.23 min Scan# 184  
Delta R.T. -0.02 min  
Lab File: VD061832.D  
Acq: 17 Apr 2019 3:44

Tgt Ion: 43 Resp: 4263  
Ion Ratio Lower Upper  
43 100  
58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): V  
Ion 57.95 (57.65 to 58.65): V

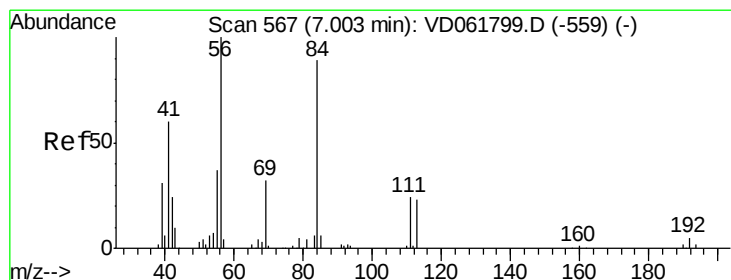
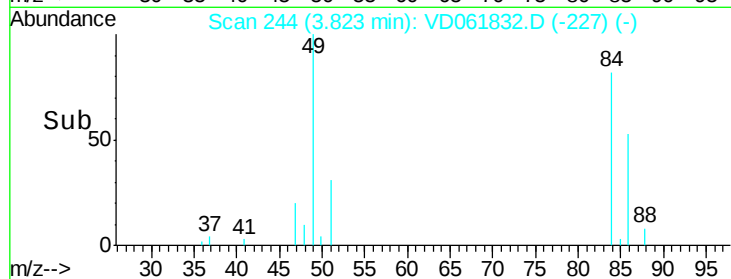
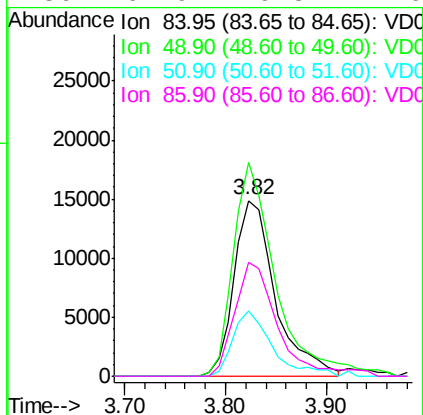
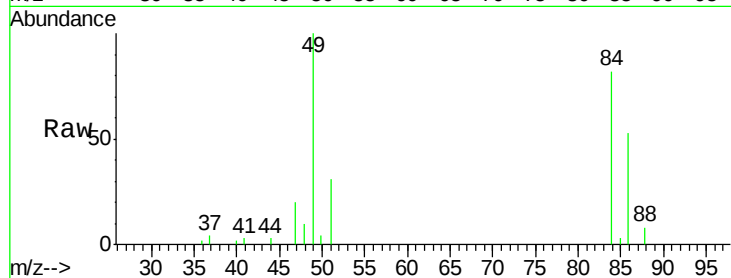




#20  
Methylene Chloride  
Concen: 3.934 ug/l  
RT: 3.82 min Scan# 244  
Delta R.T. -0.03 min  
Lab File: VD061832.D  
Acq: 17 Apr 2019 3:44

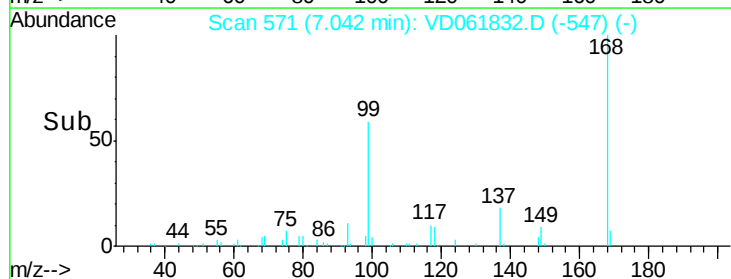
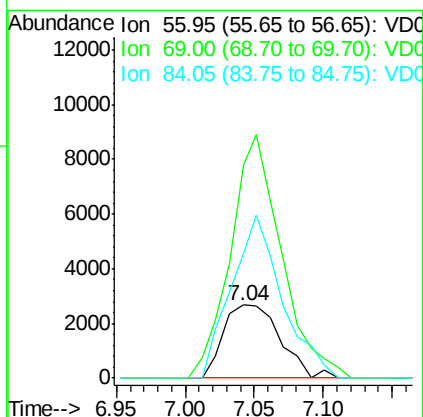
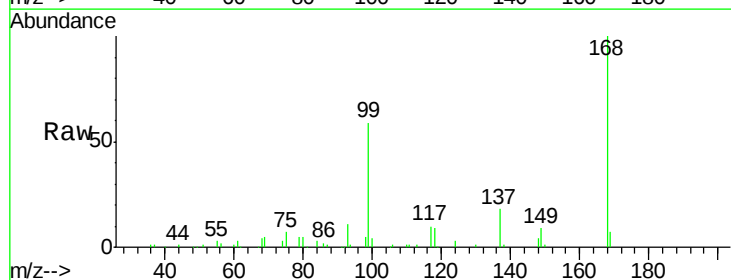
Instrument :  
MSVOA\_D  
ClientSampled :

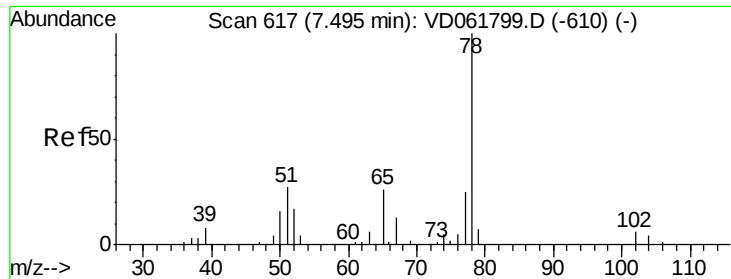
Tot Ion: 84 Resp: 42637  
Ion Ratio Lower Upper  
84 100  
49 121.5 94.0 141.0  
51 37.2 29.0 43.4  
86 64.9 49.8 74.6



#31  
Cyclohexane  
Concen: 1.183 ug/l  
RT: 7.04 min Scan# 571  
Delta R.T. 0.04 min  
Lab File: VD061832.D  
Acq: 17 Apr 2019 3:44

Tgt Ion: 56 Resp: 7640  
Ion Ratio Lower Upper  
56 100  
69 292.0 25.8 38.6#  
84 170.8 72.2 108.4#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.04 min

Lab File: VD061832.D

Acq: 17 Apr 2019 3:44

Instrument :

MSVOA\_D

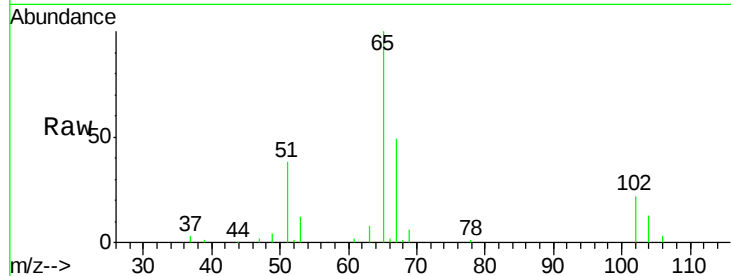
ClientSampleId :

Tot Ion: 65 Resp: 203981

Ion Ratio Lower Upper

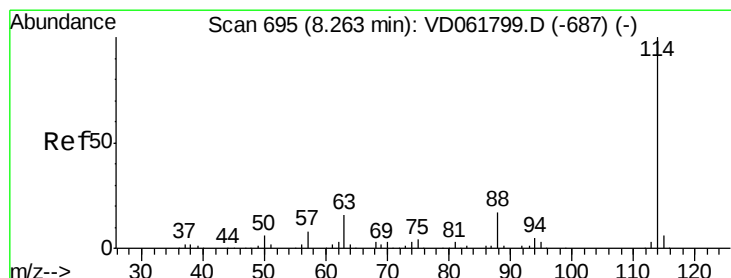
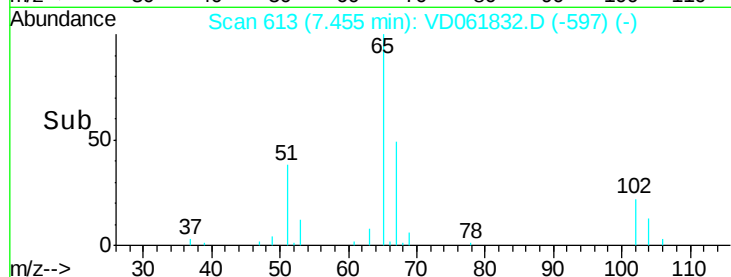
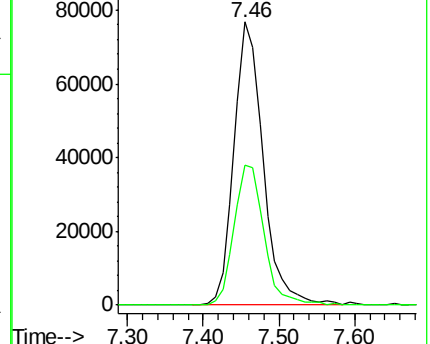
65 100

67 49.4 0.0 98.0



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: 8.22 min Scan# 691

Delta R.T. -0.04 min

Lab File: VD061832.D

Acq: 17 Apr 2019 3:44

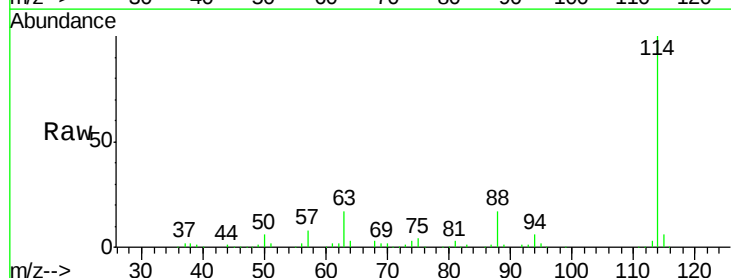
Tgt Ion: 114 Resp: 903519

Ion Ratio Lower Upper

114 100

63 16.7 0.0 32.4

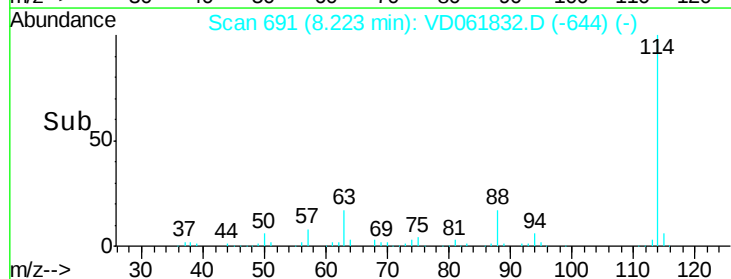
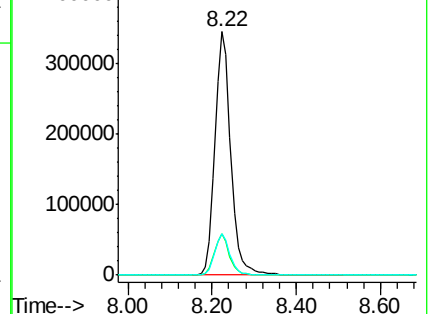
88 16.9 0.0 33.6

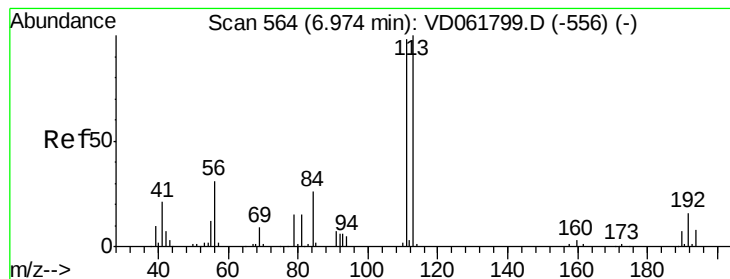


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 560

Delta R.T. -0.04 min

Lab File: VD061832.D

Acq: 17 Apr 2019 3:44

Instrument :

MSVOA\_D

ClientSampled :

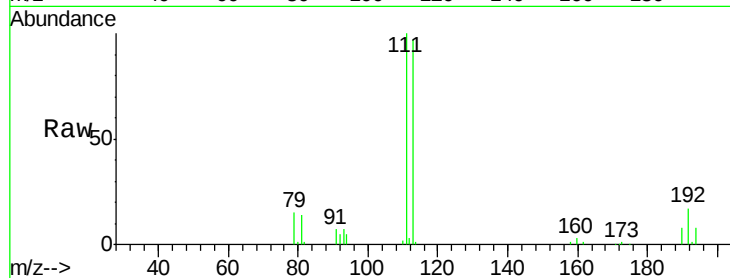
Tot Ion:113 Resp: 298383

Ion Ratio Lower Upper

113 100

111 103.6 78.5 117.7

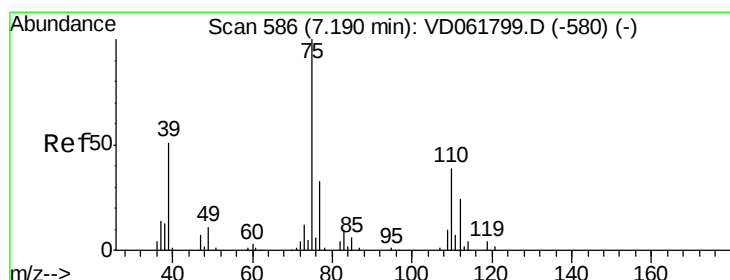
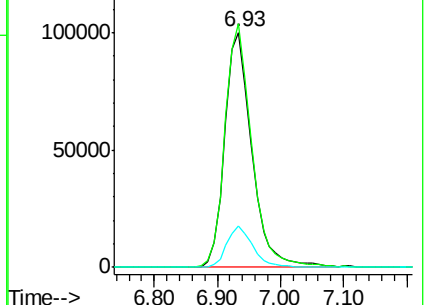
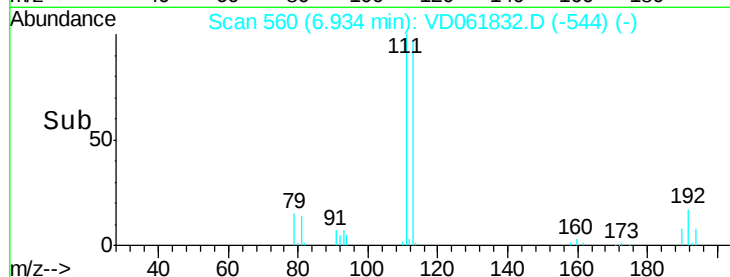
192 17.4 13.0 19.4



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



#36

1,1-Dichloropropene

Concen: 4.928 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.14 min

Lab File: VD061832.D

Acq: 17 Apr 2019 3:44

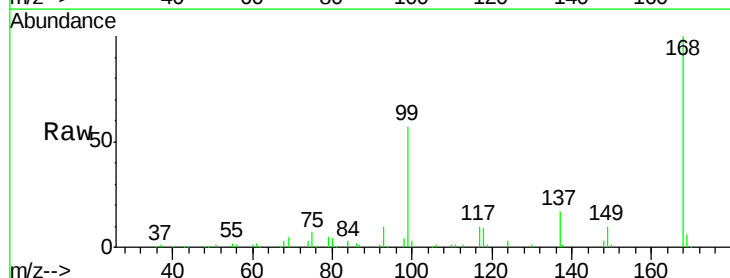
Tgt Ion: 75 Resp: 36381

Ion Ratio Lower Upper

75 100

110 7.1 19.1 57.1#

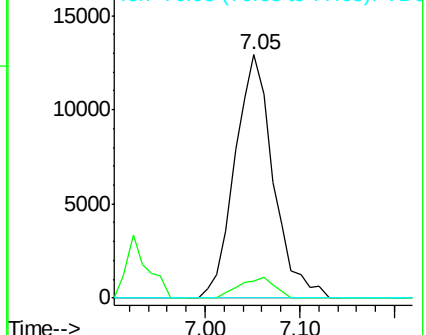
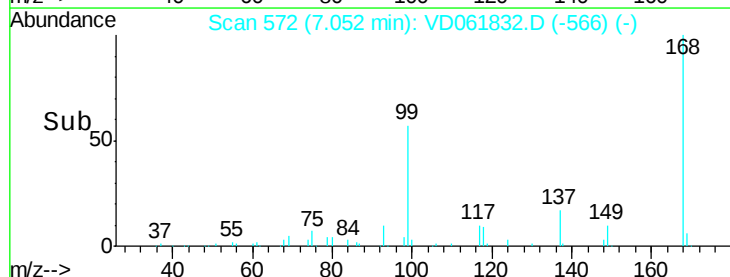
77 0.0 25.6 38.4#

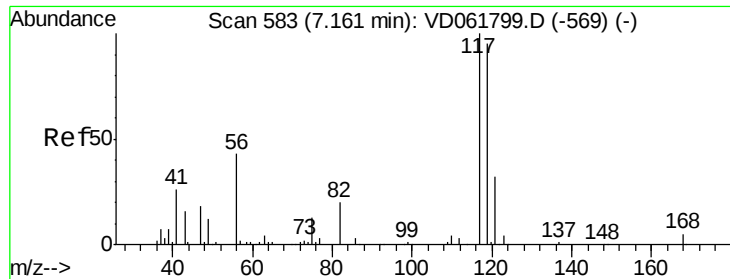


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

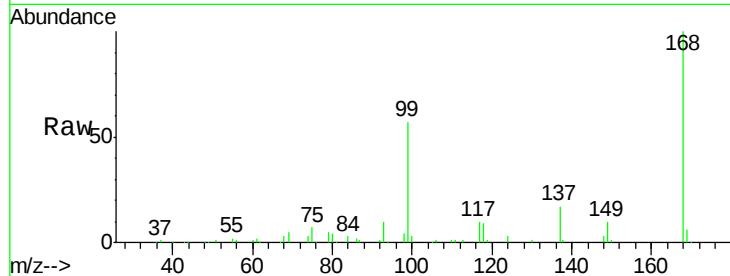




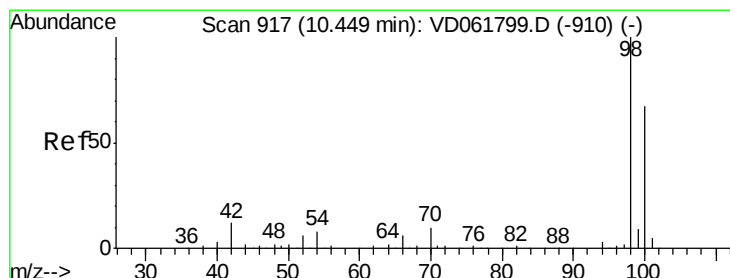
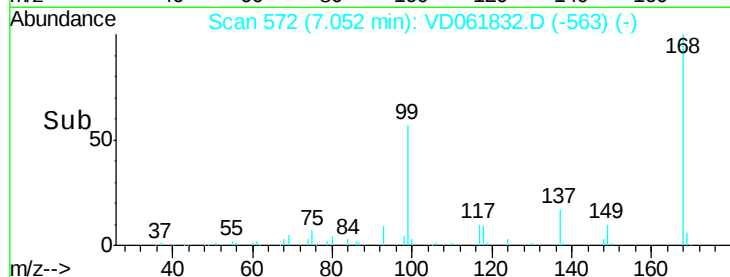
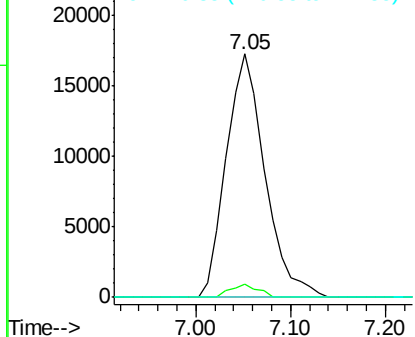
#38  
Carbon Tetrachloride  
Concen: 5.253 ug/l  
RT: 7.05 min Scan# 572  
Delta R.T. -0.11 min  
Lab File: VD061832.D  
Acq: 17 Apr 2019 3:44

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 48972  
Ion Ratio Lower Upper  
117 100  
119 5.4 75.8 113.8#  
121 0.0 25.9 38.9#

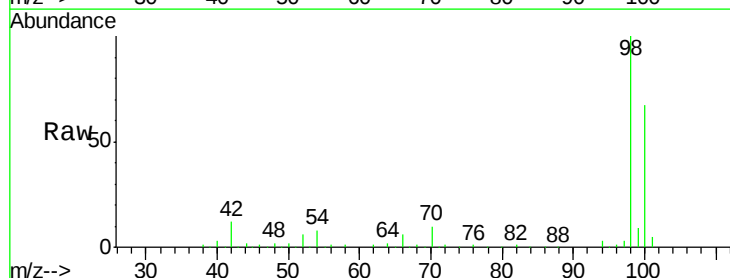


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

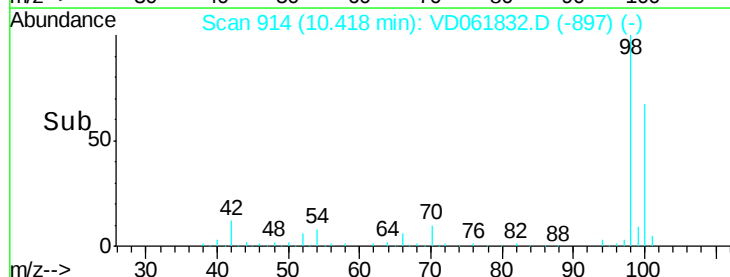
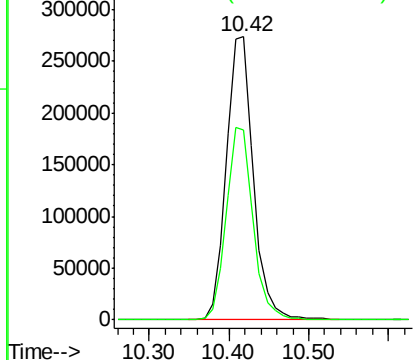


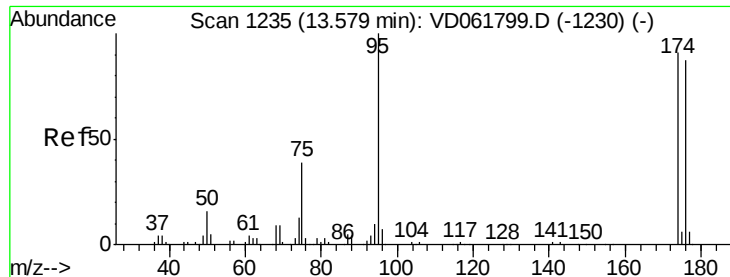
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.42 min Scan# 914  
Delta R.T. -0.03 min  
Lab File: VD061832.D  
Acq: 17 Apr 2019 3:44

Tgt Ion: 98 Resp: 654226  
Ion Ratio Lower Upper  
98 100  
100 67.2 53.8 80.8



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

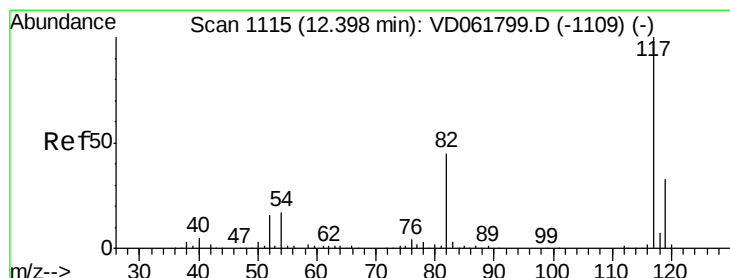
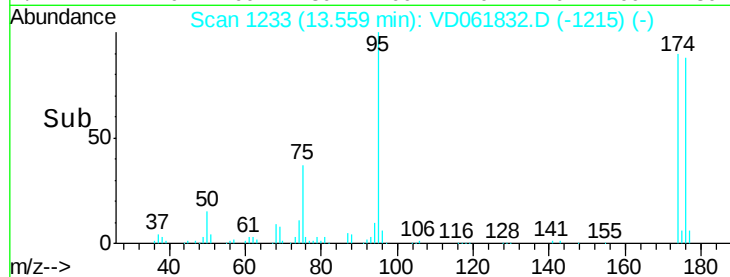
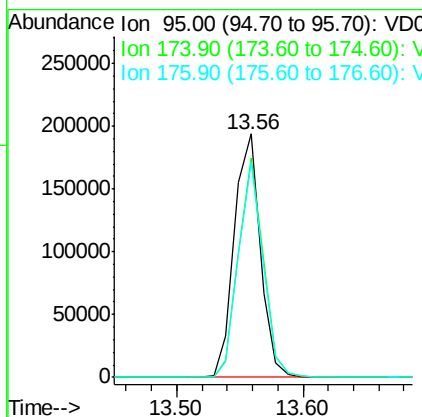
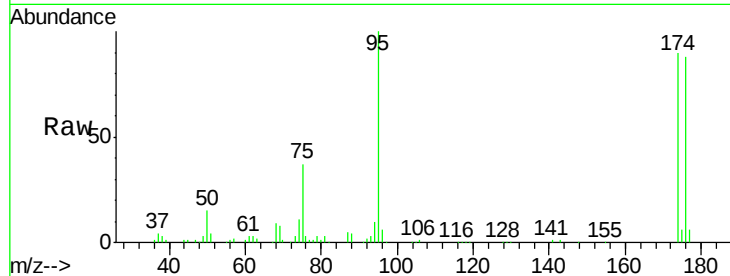




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 13.56 min Scan# 1233  
Delta R.T. -0.02 min  
Lab File: VD061832.D  
Acq: 17 Apr 2019 3:44

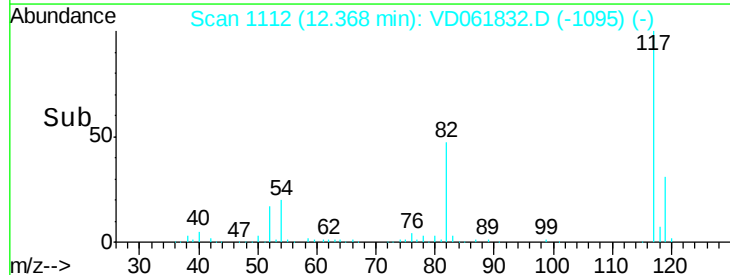
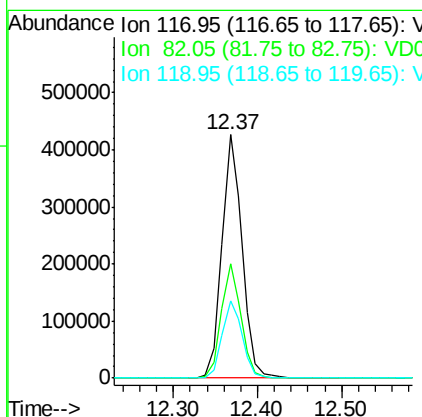
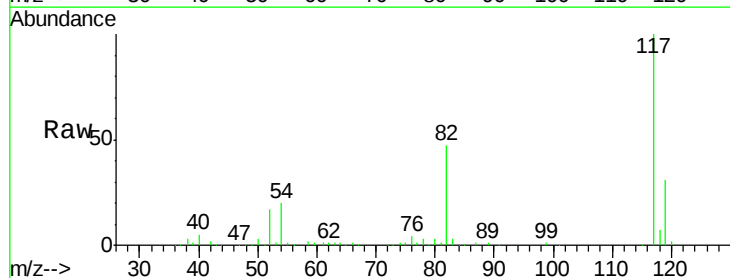
Instrument :  
MSVOA\_D  
ClientSampled :

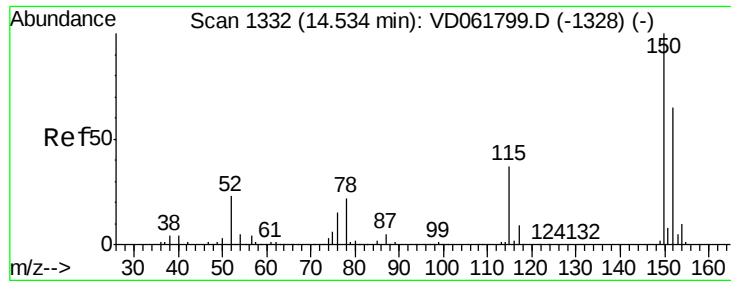
Tot Ion: 95 Resp: 274916  
Ion Ratio Lower Upper  
95 100  
174 90.1 0.0 181.8  
176 88.3 0.0 174.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. -0.03 min  
Lab File: VD061832.D  
Acq: 17 Apr 2019 3:44

Tgt Ion: 117 Resp: 708379  
Ion Ratio Lower Upper  
117 100  
82 47.0 36.2 54.2  
119 31.5 26.2 39.4



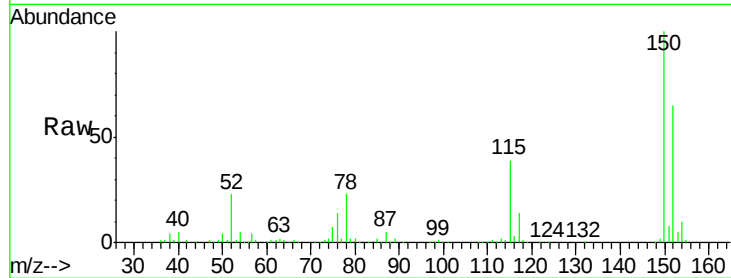


#72

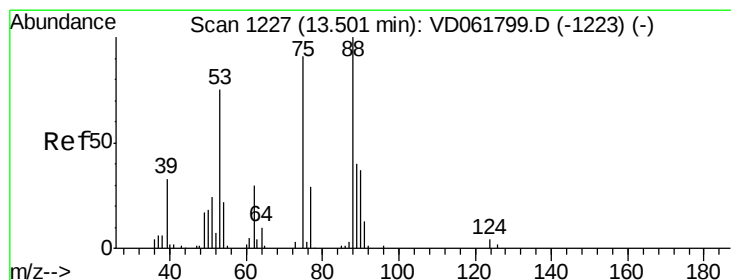
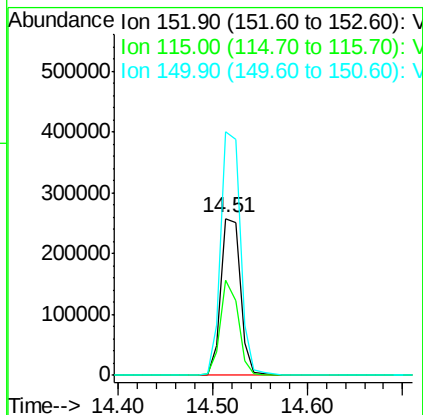
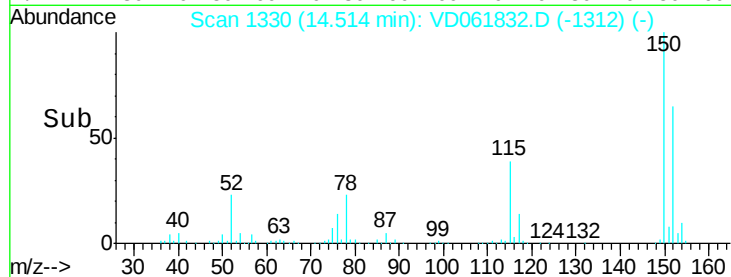
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1330  
Delta R.T. -0.02 min  
Lab File: VD061832.D  
Acq: 17 Apr 2019 3:44

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:152 Resp: 369522  
Ion Ratio Lower Upper  
152 100  
115 60.2 30.9 92.7  
150 154.9 0.0 314.8



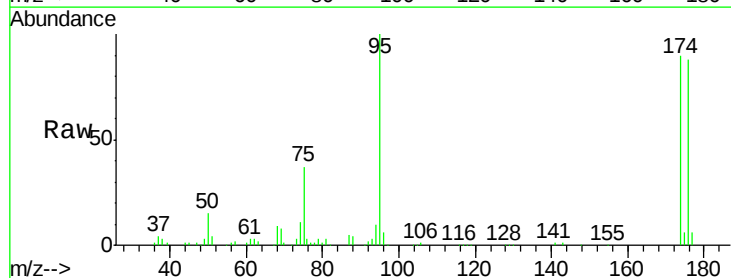
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene  
Concen: 66.179 ug/l  
RT: 13.56 min Scan# 1233  
Delta R.T. 0.06 min  
Lab File: VD061832.D  
Acq: 17 Apr 2019 3:44

Tgt Ion: 75 Resp: 105904  
Ion Ratio Lower Upper  
75 100  
53 0.0 65.8 98.8#  
89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 53.00 (52.70 to 53.70): VDC  
Ion 89.00 (88.70 to 89.70): VDC

