

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\  
 Data File : VD061833.D  
 Acq On : 17 Apr 2019 4:12  
 Operator : VA/AP  
 Sample : K2389-04  
 Misc : 5.01µl/5ml/MSVOA D/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 17 05:06:15 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      | 7.06  | 168  | 437019   | 50.00 | ug/l  | -0.04    |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 821322   | 50.00 | ug/l  | -0.04    |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 692676   | 50.00 | ug/l  | -0.03    |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 342945   | 50.00 | ug/l  | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 214048   | 58.44  | ug/l    | -0.04    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 116.88% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 297068   | 47.87  | ug/l    | -0.05    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.74%  |          |
| 50) Toluene-d8              | 10.41 | 98   | 622179   | 42.32  | ug/l    | -0.04    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 84.64%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 276071   | 46.33  | ug/l    | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 92.66%  |          |

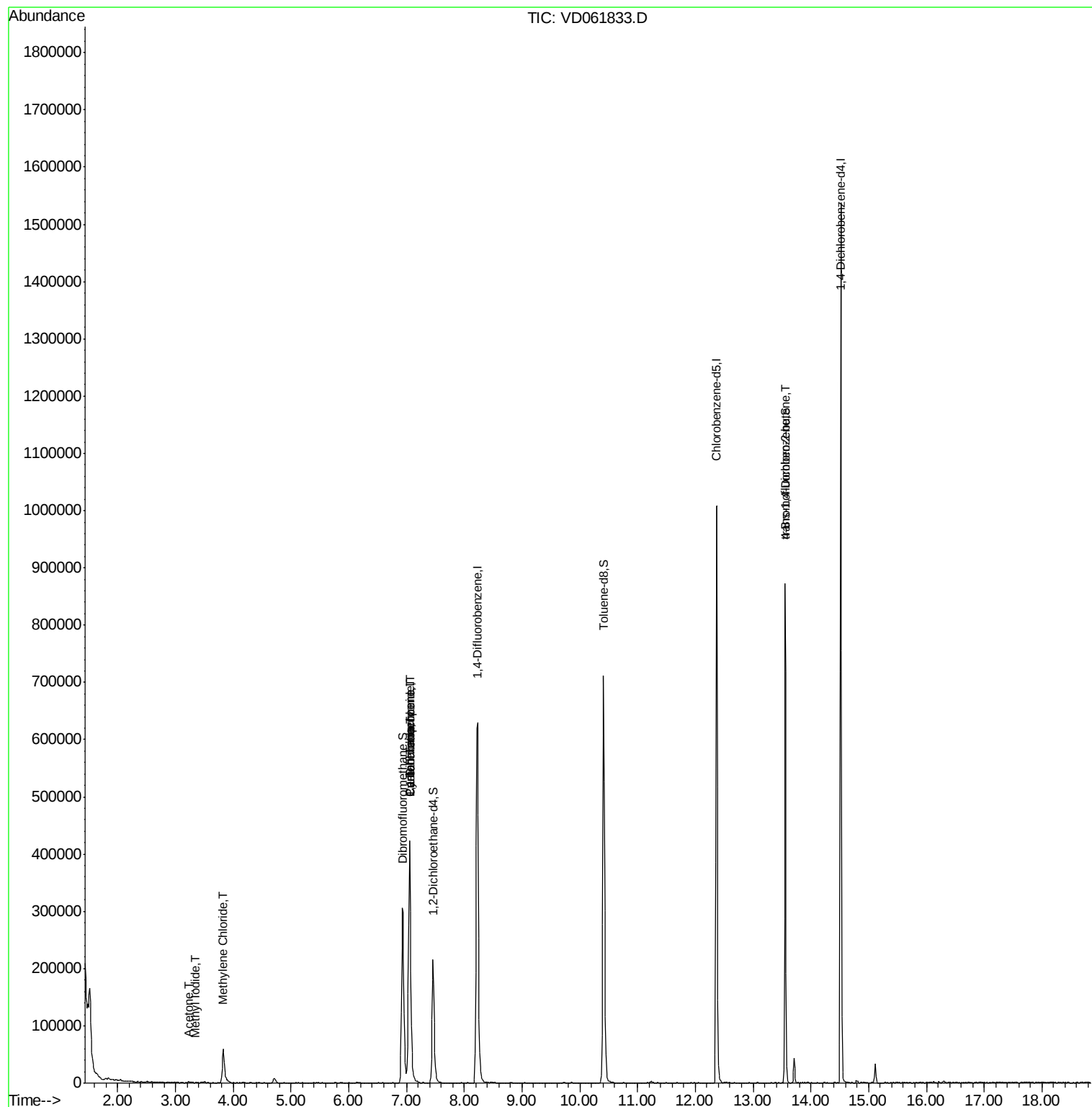
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.18  | 94   | 622      | Below Cal | #      | 12     |
| 10) Methyl Iodide              | 3.34  | 142  | 178      | 3.536     | ug/l # | 37     |
| 16) Acetone                    | 3.23  | 43   | 3659     | 4.053     | ug/l   | 93     |
| 20) Methylene Chloride         | 3.84  | 84   | 44877    | 5.961     | ug/l   | 91     |
| 31) Cyclohexane                | 7.06  | 56   | 7133     | 1.286     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.06  | 75   | 30597    | 4.559     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.06  | 117  | 43556    | 5.140     | ug/l # | 15     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 103830   | 69.723    | ug/l # | 16     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD041619\  
Data File : VD061833.D  
Acq On : 17 Apr 2019 4:12  
Operator : VA/AP  
Sample : K2389-04  
Misc : 5.01a/5ml/MSVOA D/SOIL  
ALS Vial : 38 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Apr 17 05:06:15 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

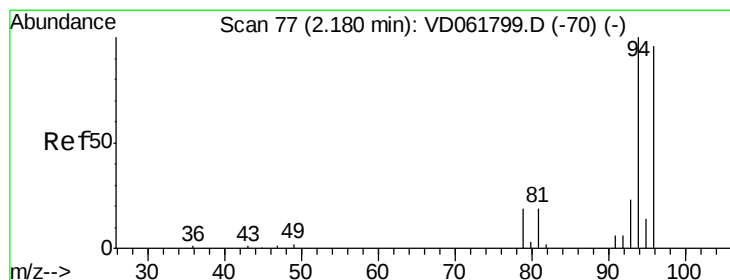
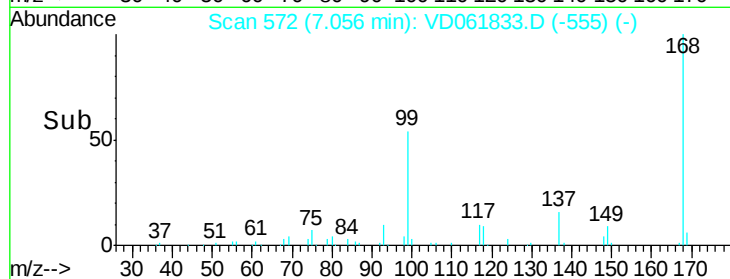
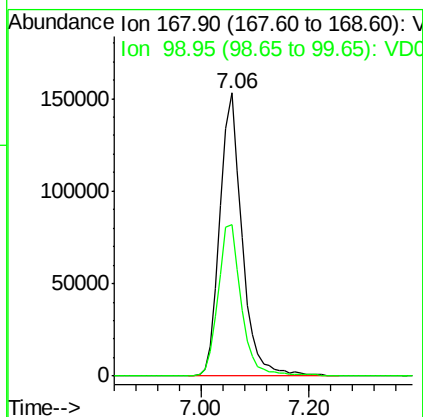
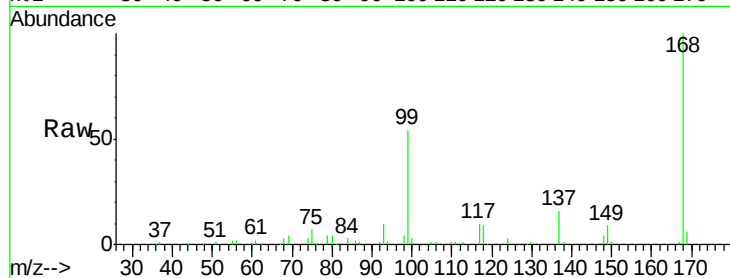




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.06 min Scan# 572  
Delta R.T. -0.04 min  
Lab File: VD061833.D  
Acq: 17 Apr 2019 4:12

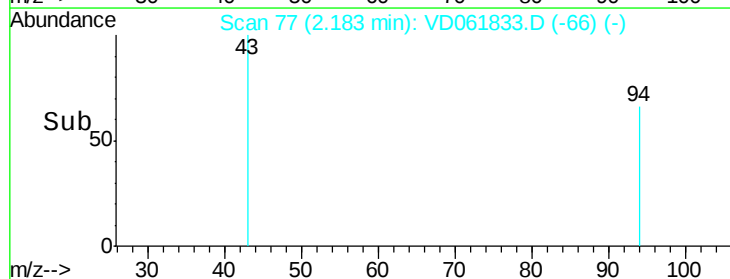
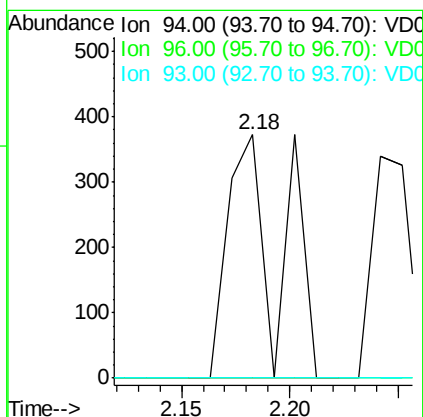
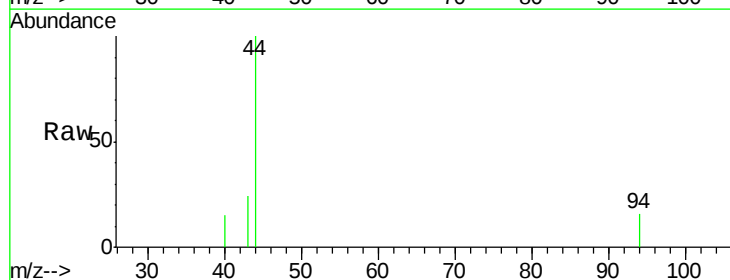
Instrument :  
MSVOA\_D  
ClientSampleId :

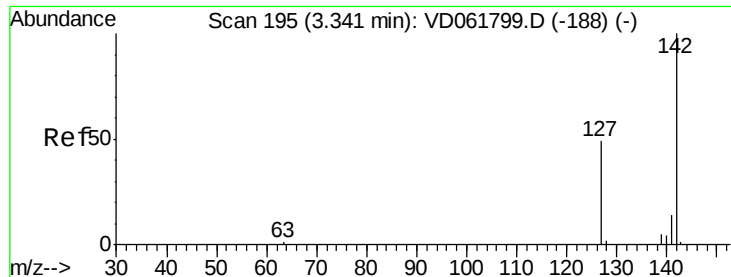
Tot Ion:168 Resp: 437019  
Ion Ratio Lower Upper  
168 100  
99 53.7 46.5 69.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.18 min Scan# 77  
Delta R.T. 0.00 min  
Lab File: VD061833.D  
Acq: 17 Apr 2019 4:12

Tgt Ion: 94 Resp: 622  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.6 115.0#  
93 0.0 18.5 27.7#

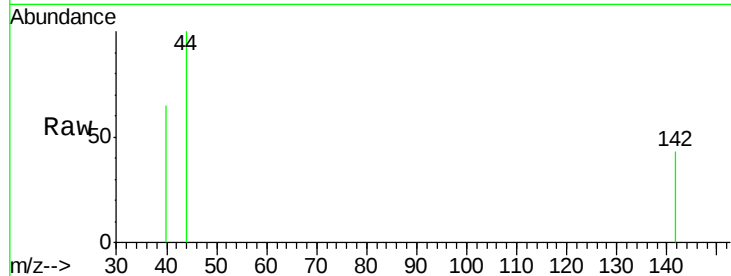




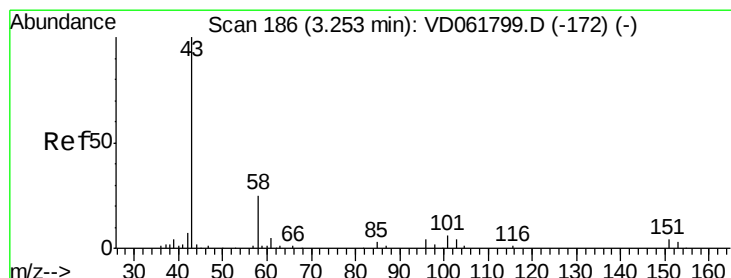
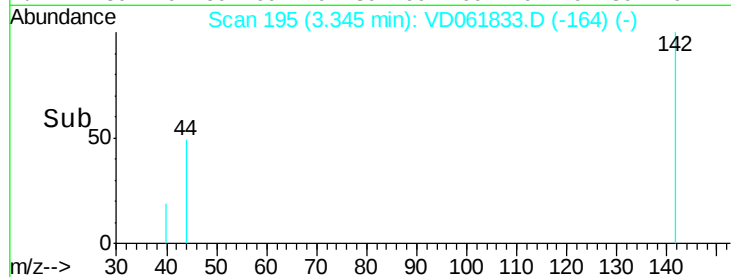
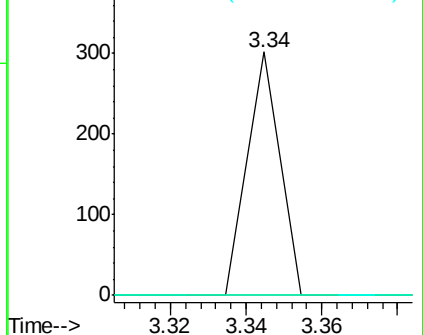
#10  
Methvl Iodide  
Concen: 3.536 ug/l  
RT: 3.34 min Scan# 195  
Delta R.T. 0.00 min  
Lab File: VD061833.D  
Acq: 17 Apr 2019 4:12

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:142 Resp: 178  
Ion Ratio Lower Upper  
142 100  
127 0.0 38.8 58.2#  
141 0.0 11.4 17.0#

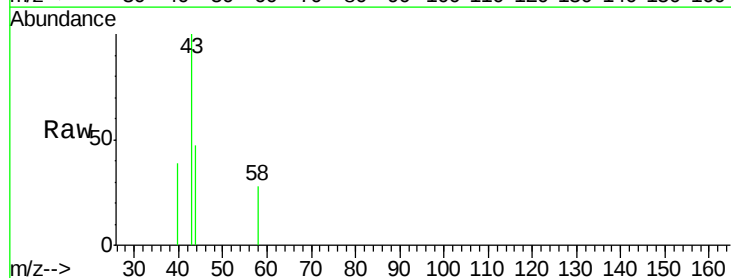


Abundance Ion 141.85 (141.55 to 142.55): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.85 (140.55 to 141.55): V

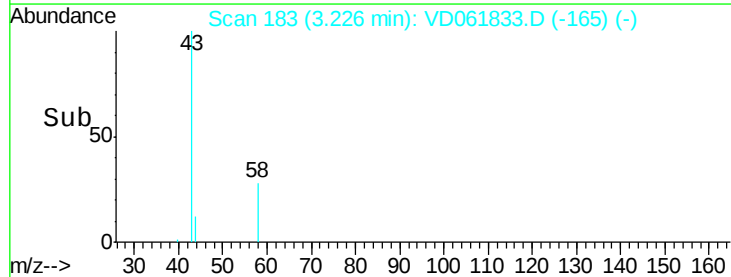
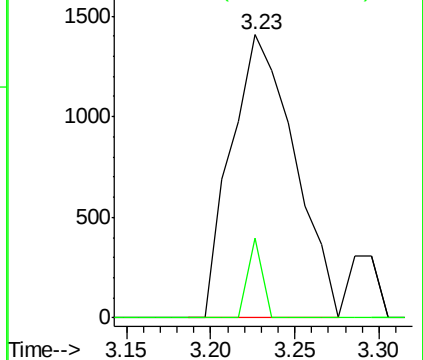


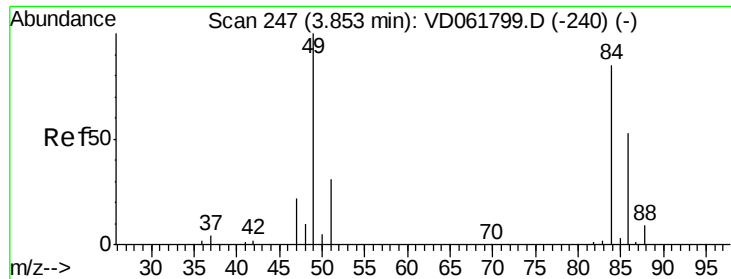
#16  
Acetone  
Concen: 4.053 ug/l  
RT: 3.23 min Scan# 183  
Delta R.T. -0.03 min  
Lab File: VD061833.D  
Acq: 17 Apr 2019 4:12

Tgt Ion: 43 Resp: 3659  
Ion Ratio Lower Upper  
43 100  
58 28.4 19.9 29.9



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

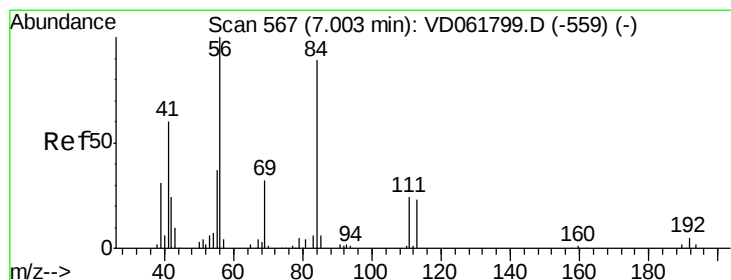
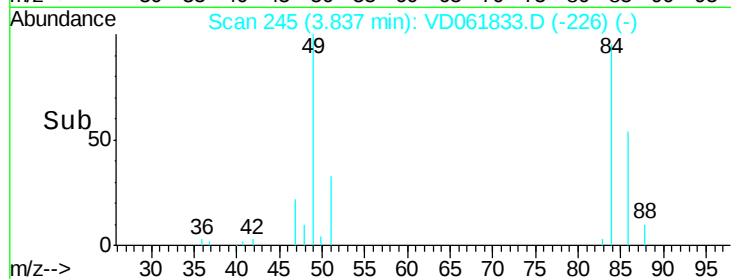
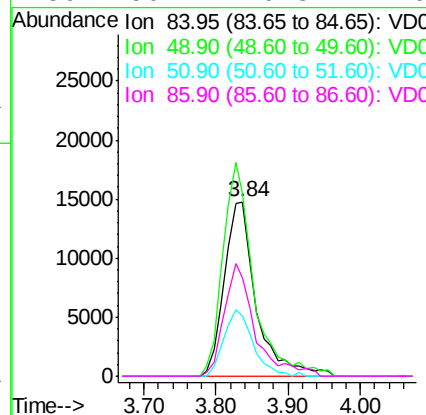
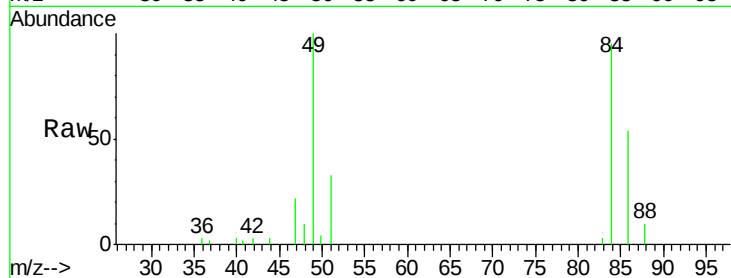




#20  
Methvlene Chloride  
Concen: 5.961 ug/l  
RT: 3.84 min Scan# 245  
Delta R.T. -0.02 min  
Lab File: VD061833.D  
Acq: 17 Apr 2019 4:12

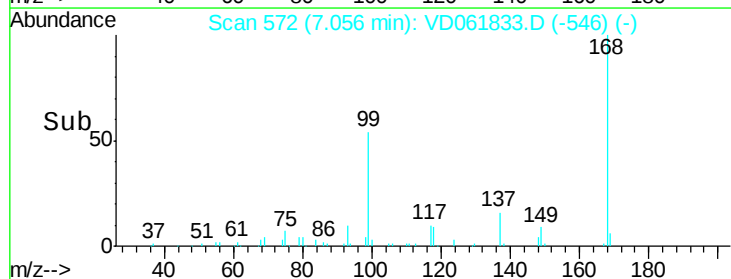
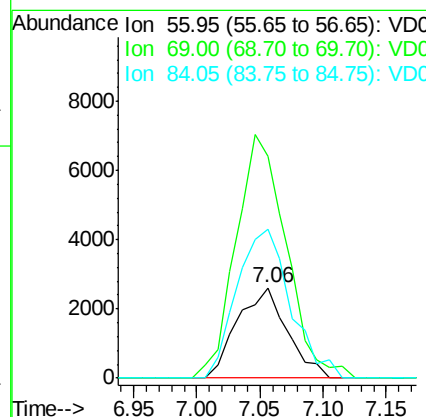
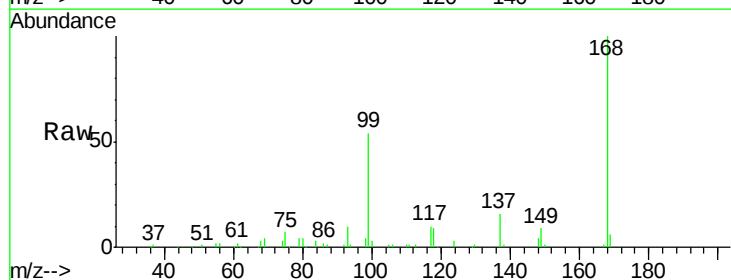
Instrument :  
MSVOA\_D  
ClientSampleId :

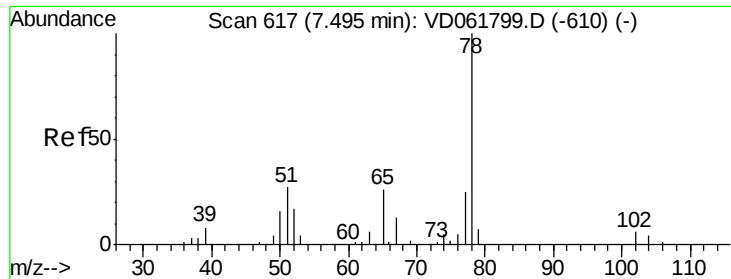
Tot Ion: 84 Resp: 44877  
Ion Ratio Lower Upper  
84 100  
49 105.0 94.0 141.0  
51 34.5 29.0 43.4  
86 56.7 49.8 74.6



#31  
Cyclohexane  
Concen: 1.286 ug/l  
RT: 7.06 min Scan# 572  
Delta R.T. 0.05 min  
Lab File: VD061833.D  
Acq: 17 Apr 2019 4:12

Tgt Ion: 56 Resp: 7133  
Ion Ratio Lower Upper  
56 100  
69 245.0 25.8 38.6#  
84 165.0 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: VD061833.D

Acq: 17 Apr 2019 4:12

Instrument :

MSVOA\_D

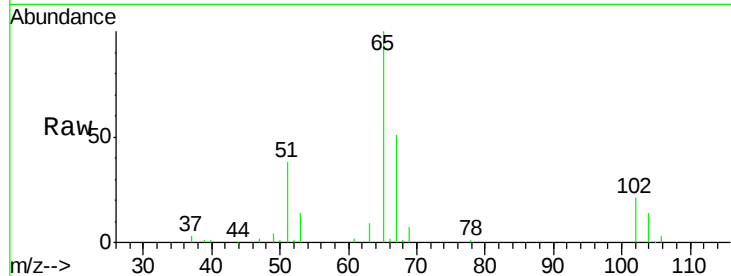
ClientSampled :

Tot Ion: 65 Resp: 214048

Ion Ratio Lower Upper

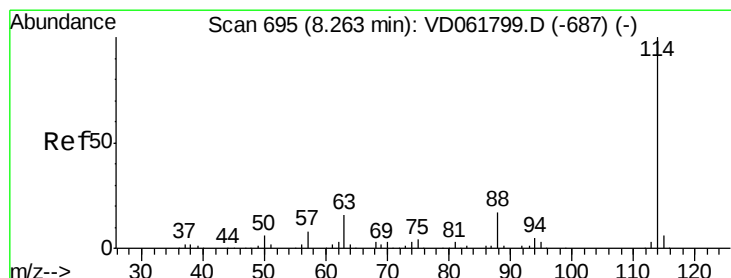
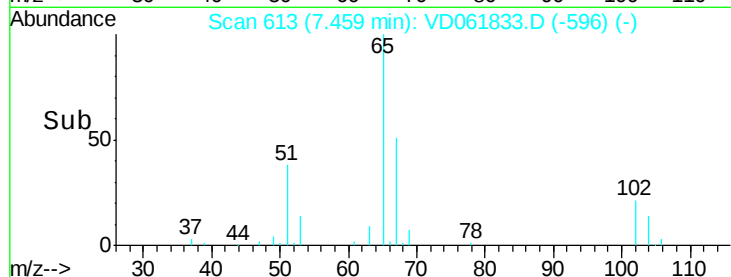
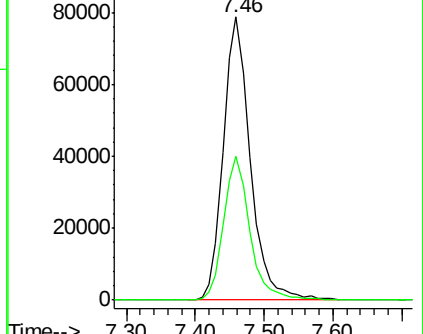
65 100

67 51.0 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: 8.23 min Scan# 691

Delta R.T. -0.04 min

Lab File: VD061833.D

Acq: 17 Apr 2019 4:12

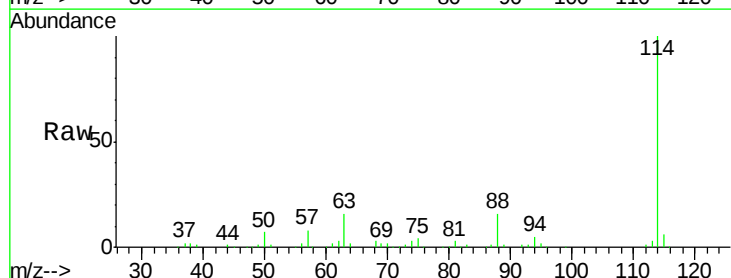
Tgt Ion: 114 Resp: 821322

Ion Ratio Lower Upper

114 100

63 15.9 0.0 32.4

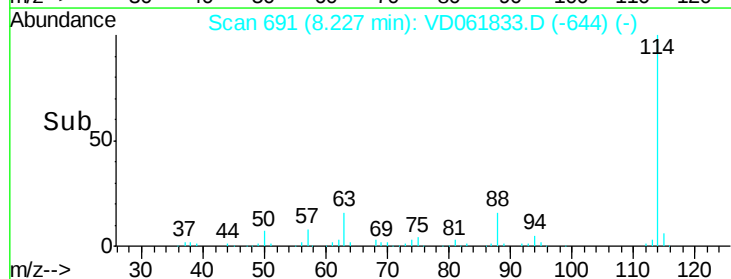
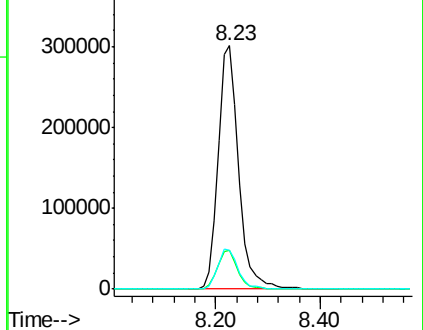
88 15.8 0.0 33.6

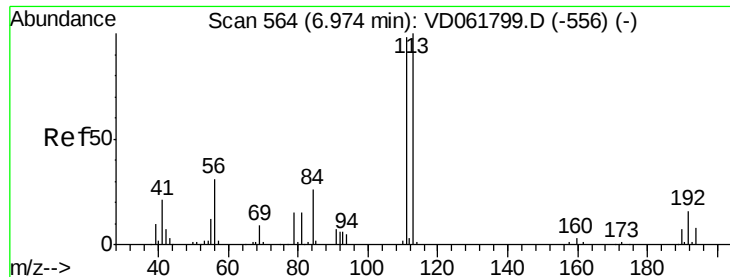


Abundance Ion 114.00 (113.70 to 114.70): V

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# 559

Delta R.T. -0.05 min

Lab File: VD061833.D

Acq: 17 Apr 2019 4:12

Instrument :

MSVOA\_D

ClientSampled :

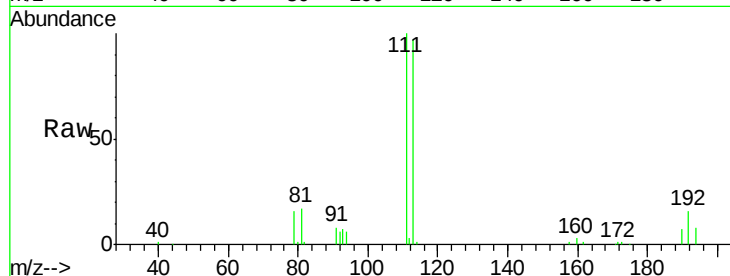
Tot Ion:113 Resp: 297068

Ion Ratio Lower Upper

113 100

111 102.7 78.5 117.7

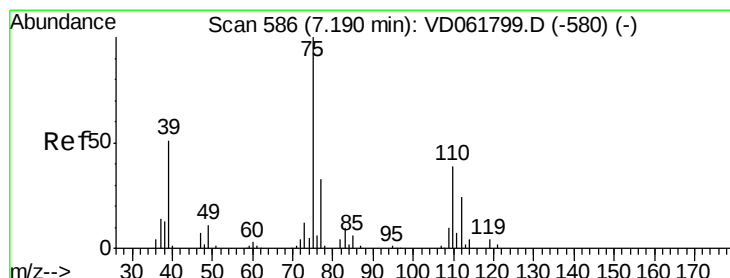
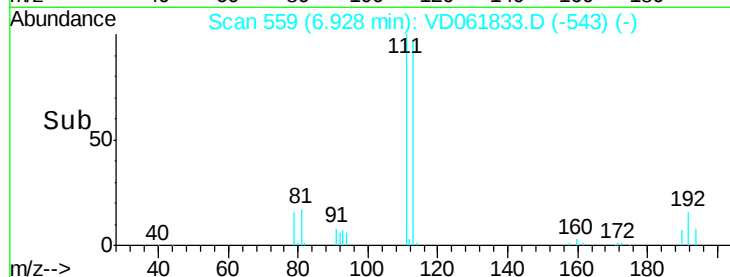
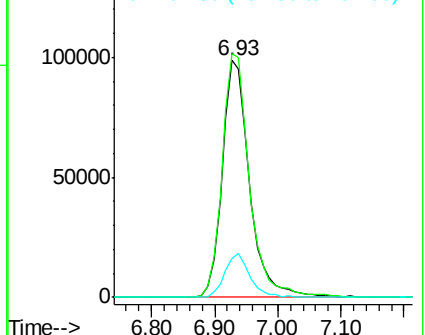
192 16.5 13.0 19.4



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: 4.559 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.13 min

Lab File: VD061833.D

Acq: 17 Apr 2019 4:12

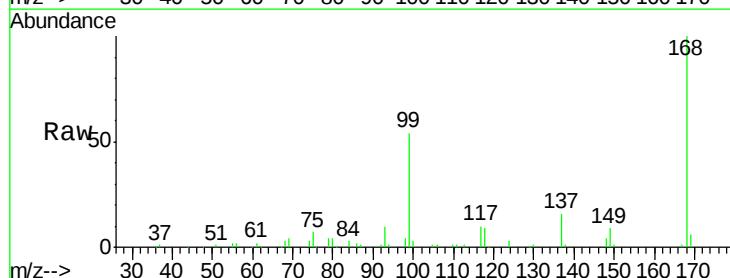
Tgt Ion: 75 Resp: 30597

Ion Ratio Lower Upper

75 100

110 7.8 19.1 57.1#

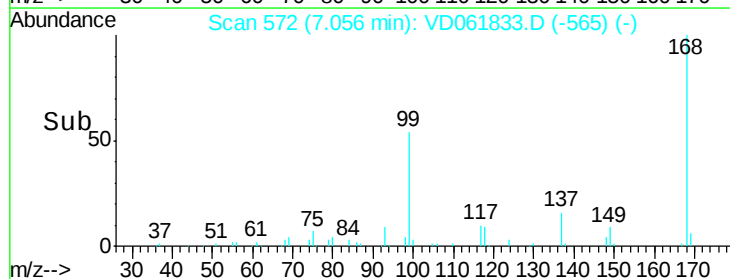
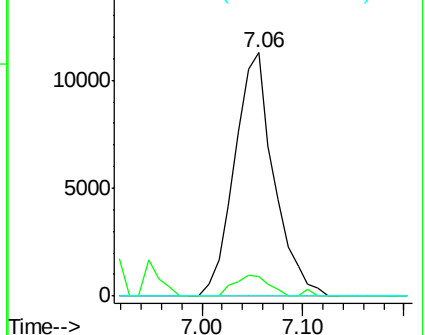
77 0.0 25.6 38.4#

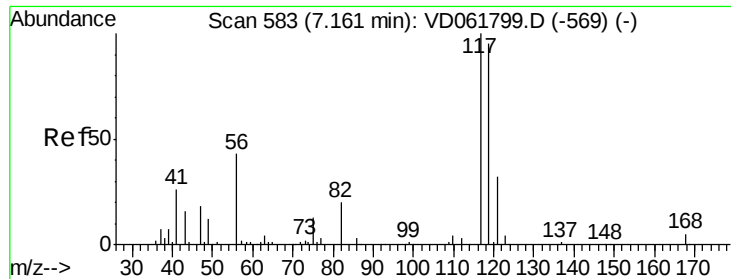


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.140 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.10 min

Lab File: VD061833.D

Acq: 17 Apr 2019 4:12

Instrument :

MSVOA\_D

ClientSampleId :

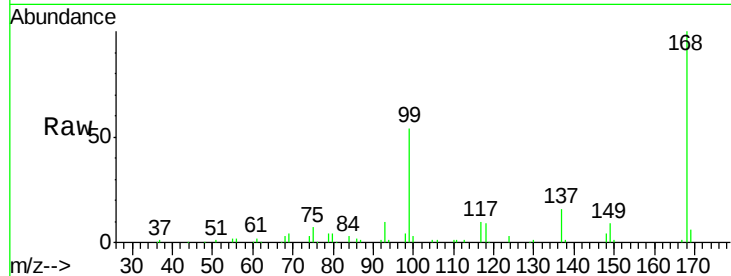
Tot Ion:117 Resp: 43556

Ion Ratio Lower Upper

117 100

119 3.5 75.8 113.8#

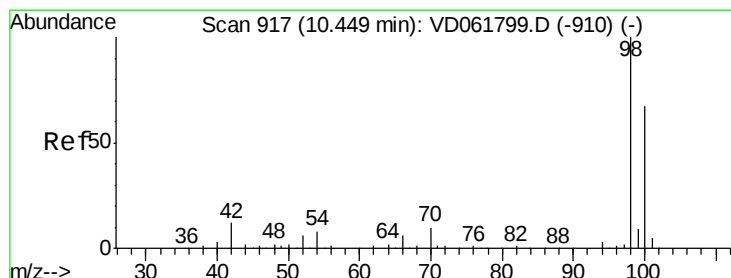
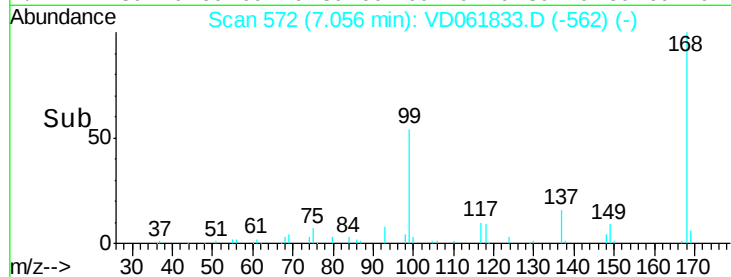
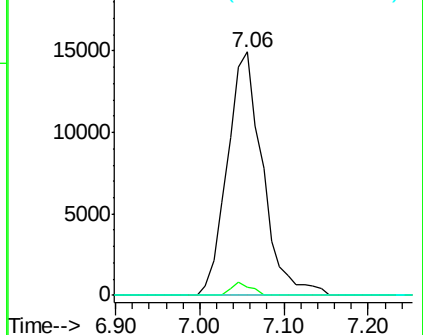
121 0.0 25.9 38.9#



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: 10.41 min Scan# 913

Delta R.T. -0.04 min

Lab File: VD061833.D

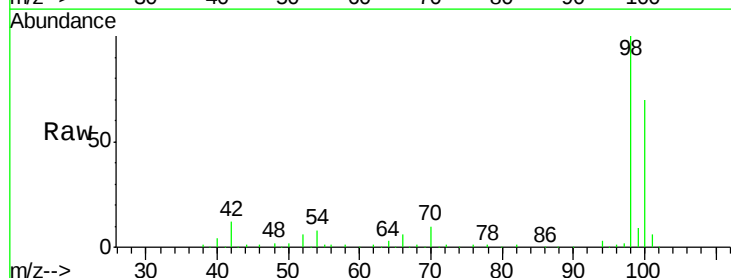
Acq: 17 Apr 2019 4:12

Tgt Ion: 98 Resp: 622179

Ion Ratio Lower Upper

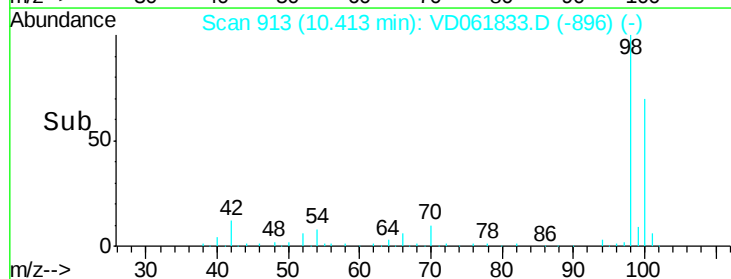
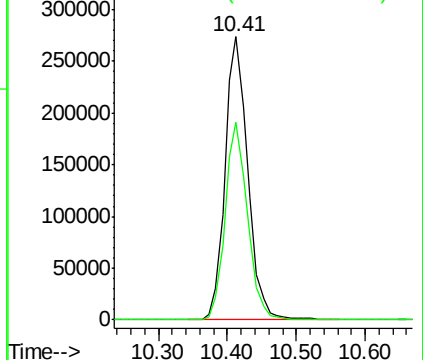
98 100

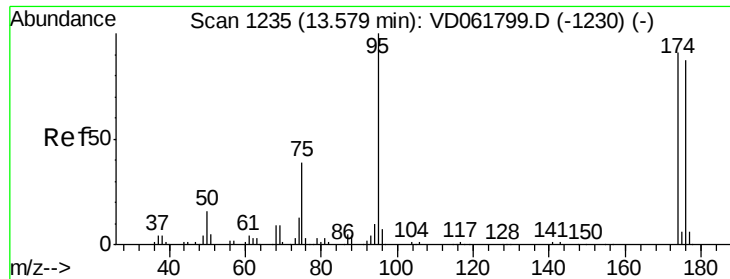
100 69.8 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

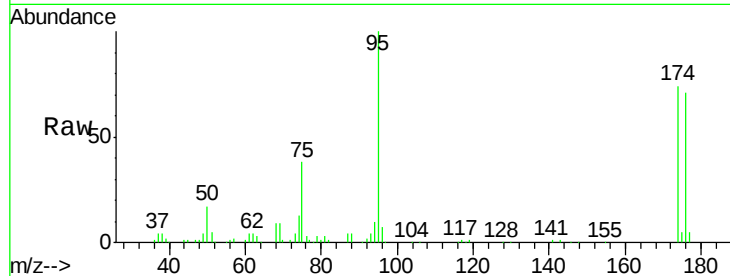




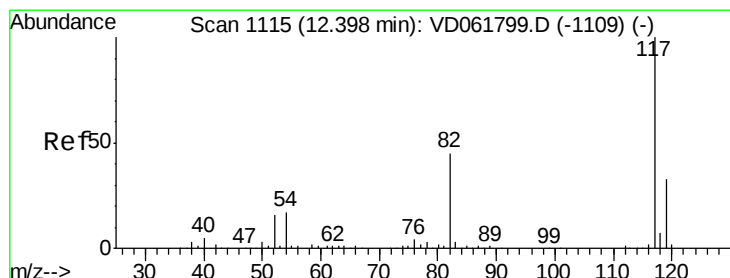
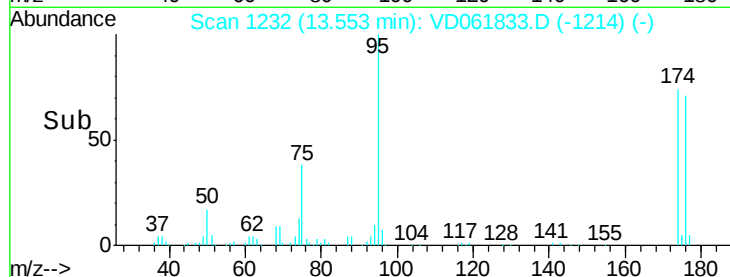
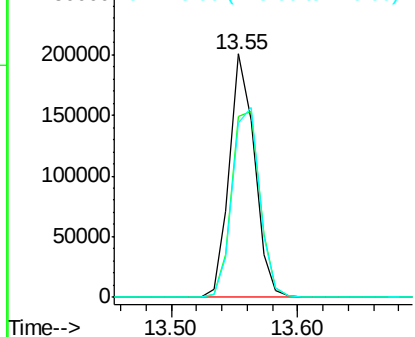
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. -0.03 min  
Lab File: VD061833.D  
Acq: 17 Apr 2019 4:12

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 95 Resp: 276071  
Ion Ratio Lower Upper  
95 100  
174 74.4 0.0 181.8  
176 71.5 0.0 174.4

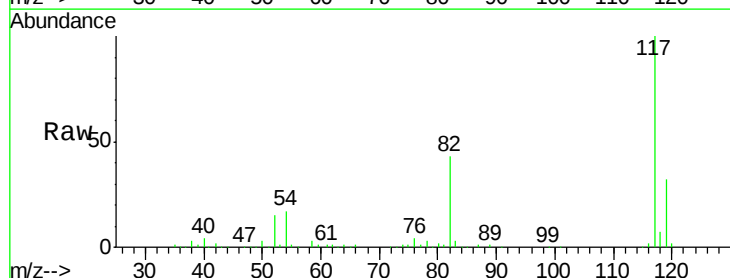


Abundance Ion 95.00 (94.70 to 95.70): V  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

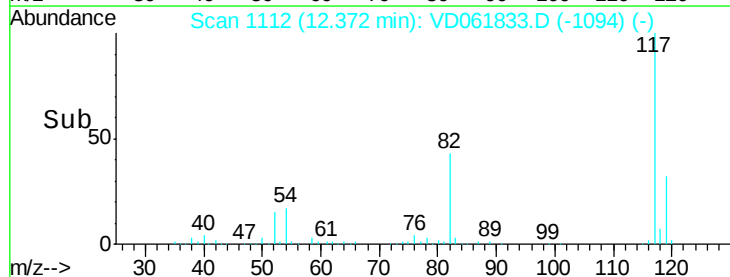
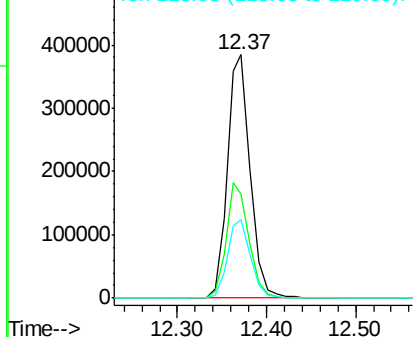


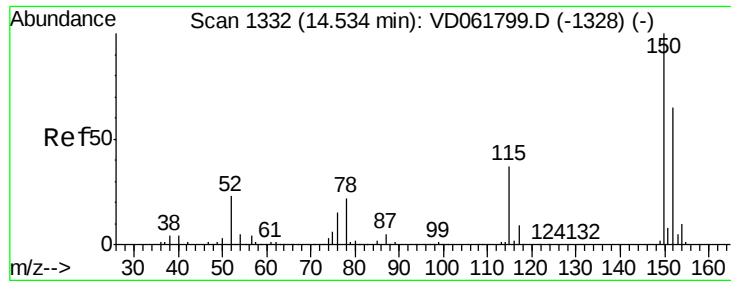
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. -0.03 min  
Lab File: VD061833.D  
Acq: 17 Apr 2019 4:12

Tgt Ion: 117 Resp: 692676  
Ion Ratio Lower Upper  
117 100  
82 43.0 36.2 54.2  
119 32.4 26.2 39.4



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.02 min

Lab File: VD061833.D

Acq: 17 Apr 2019 4:12

Instrument :

MSVOA\_D

ClientSampleId :

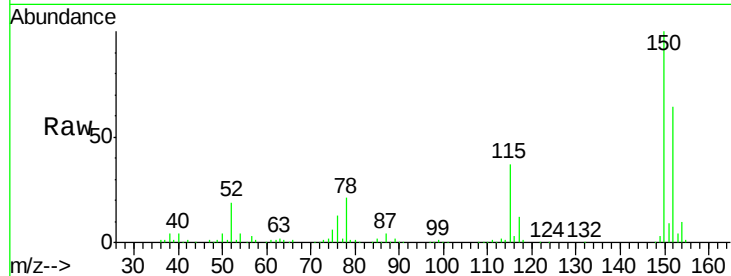
Tot Ion:152 Resp: 342945

Ion Ratio Lower Upper

152 100

115 58.1 30.9 92.7

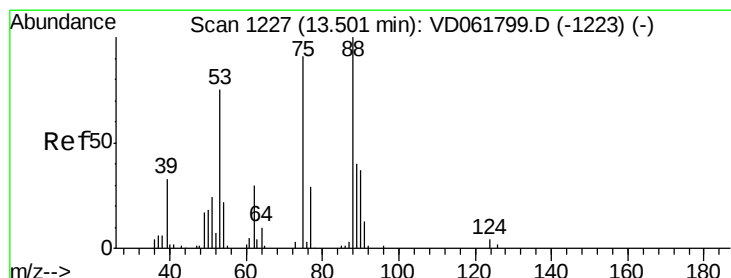
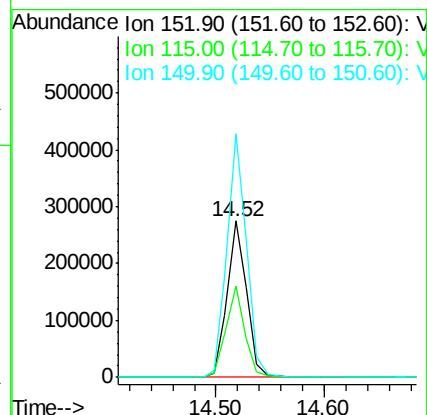
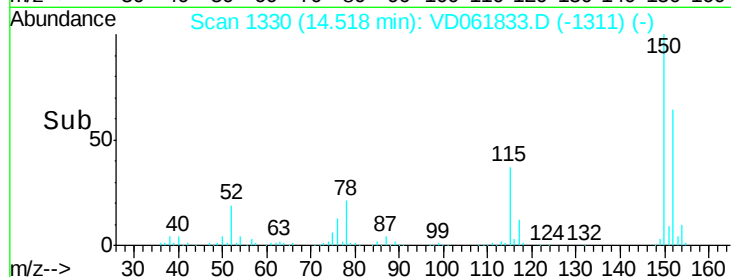
150 155.8 0.0 314.8



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: 69.723 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.05 min

Lab File: VD061833.D

Acq: 17 Apr 2019 4:12

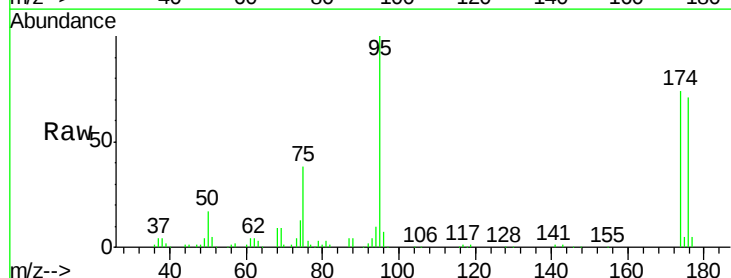
Tgt Ion: 75 Resp: 103830

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

