

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062519\  
 Data File : VD062880.D  
 Acq On : 25 Jun 2019 15:42  
 Operator : VA/AP  
 Sample : K3511-01RE  
 Misc : 5.88g/5ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 COMP-1

Quant Time: Jun 26 05:35:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 01:50:56 2019  
 Response via : Initial Calibration

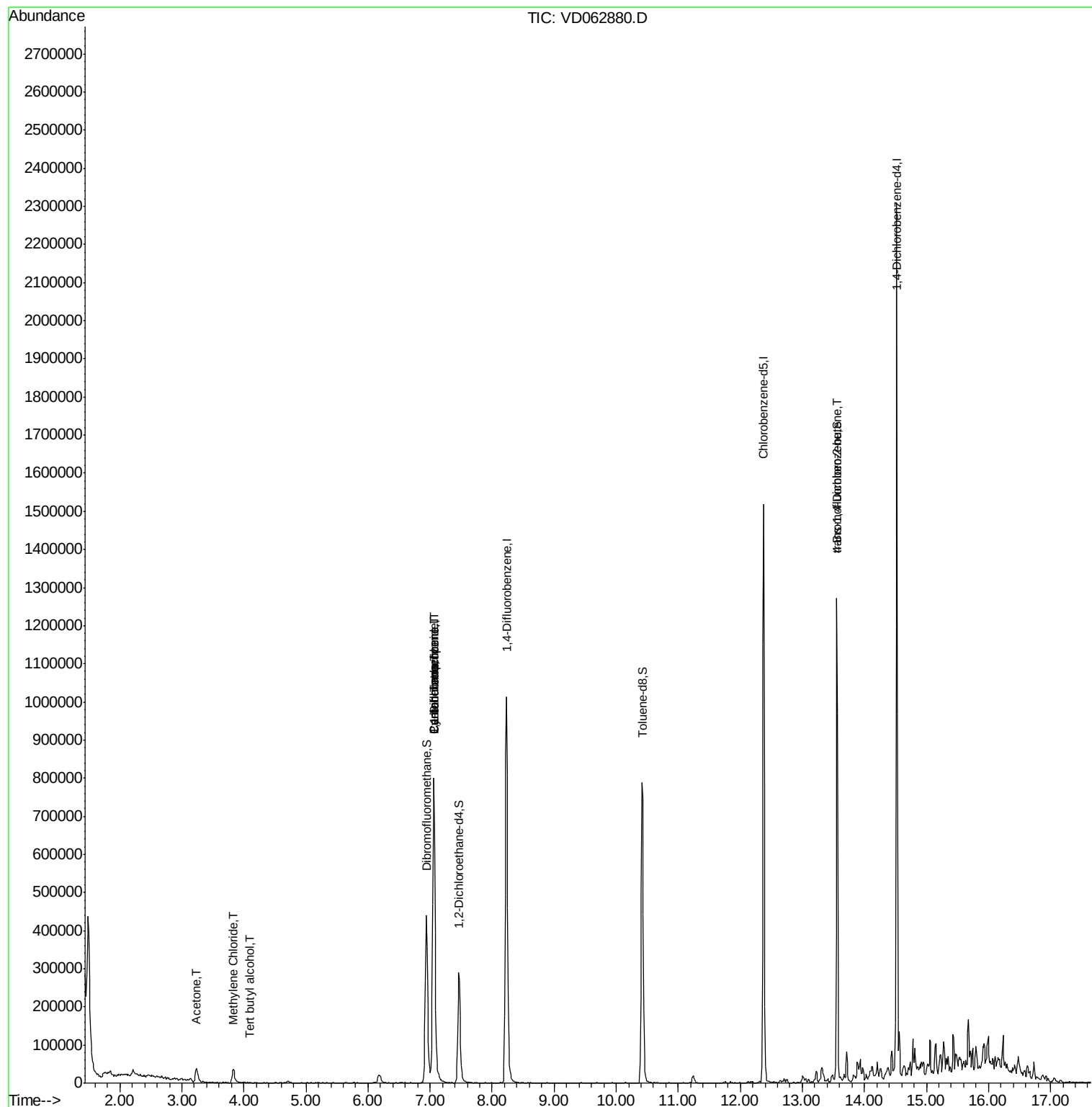
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 7.06  | 168  | 750496   | 50.00     | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene        | 8.23  | 114  | 1071131  | 50.00     | ug/l   | 0.01     |
| 63) Chlorobenzene-d5           | 12.38 | 117  | 786095   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 14.52 | 152  | 455816   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 7.46  | 65   | 340783   | 41.77     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 83.54% |          |
| 35) Dibromofluoromethane       | 6.94  | 113  | 388758   | 43.04     | ug/l   | 0.01     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 86.08% |          |
| 50) Toluene-d8                 | 10.42 | 98   | 658734   | 33.51     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 67.02% |          |
| 62) 4-Bromofluorobenzene       | 13.56 | 95   | 344131   | 38.50     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 77.00% |          |
| Target Compounds               |       |      |          |           |        |          |
|                                |       |      |          |           | Qvalue |          |
| 11) Tert butyl alcohol         | 4.10  | 59   | 560      | 1.507     | ug/l # | 77       |
| 16) Acetone                    | 3.23  | 43   | 82249    | 43.952    | ug/l   | 94       |
| 20) Methylene Chloride         | 3.82  | 84   | 21217    | 3.410     | ug/l # | 90       |
| 31) Cyclohexane                | 7.05  | 56   | 16860    | 2.201     | ug/l # | 1        |
| 36) 1,1-Dichloropropene        | 7.06  | 75   | 59114    | 5.830     | ug/l # | 54       |
| 37) Ethyl Acetate              | 6.16  | 43   | 1740     | Below Cal | #      | 21       |
| 38) Carbon Tetrachloride       | 7.06  | 117  | 79171    | 5.192     | ug/l # | 15       |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 155478   | 112.738   | ug/l # | 2        |

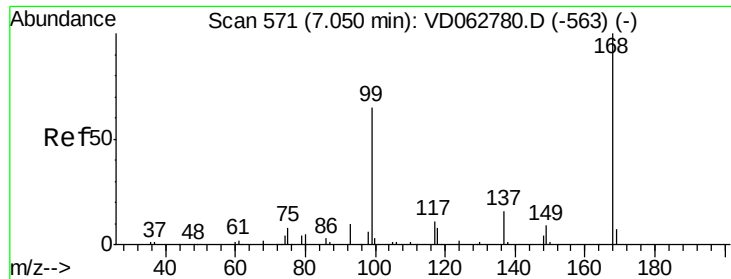
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 01:50:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD062880.D

Acq: 25 Jun 2019 15:42

Instrument :

MSVOA\_D

ClientSampleId :

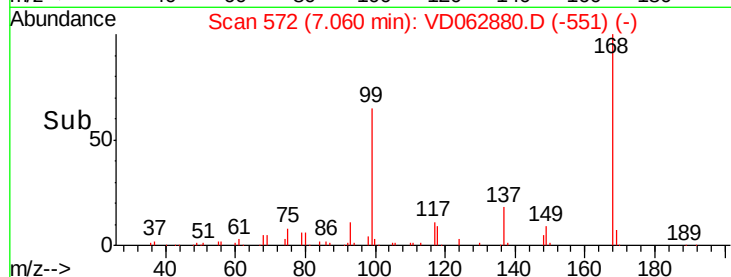
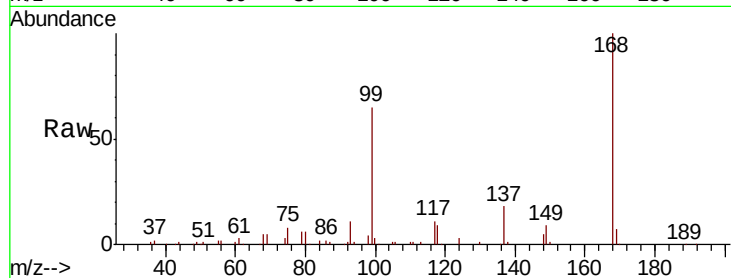
COMP-1

Tot Ion:168 Resp: 750496

Ion Ratio Lower Upper

168 100

99 65.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

250000

200000

150000

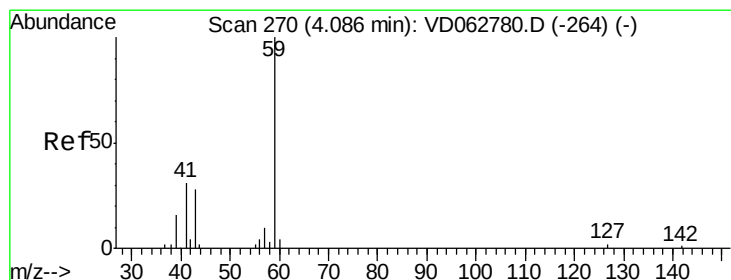
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.507 ug/l

RT: 4.10 min Scan# 271

Delta R.T. 0.01 min

Lab File: VD062880.D

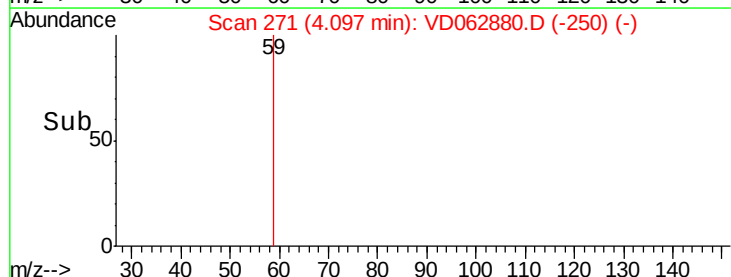
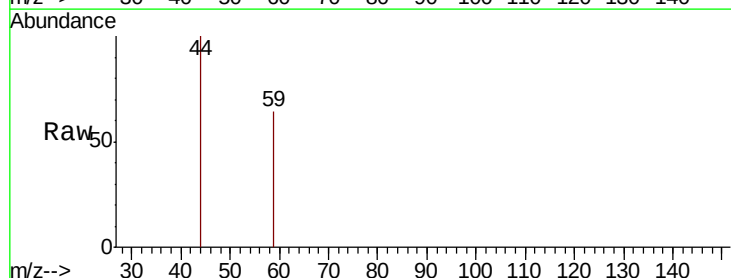
Acq: 25 Jun 2019 15:42

Tgt Ion: 59 Resp: 560

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

600

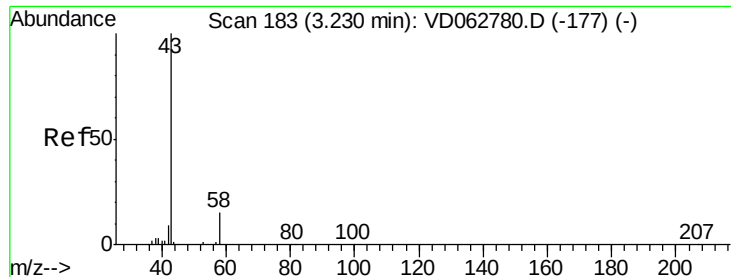
400

200

0

Time-->

4.06 4.08 4.10 4.12



#16

Acetone

Concen: 43.952 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD062880.D

Acq: 25 Jun 2019 15:42

Instrument :

MSVOA\_D

ClientSampleId :

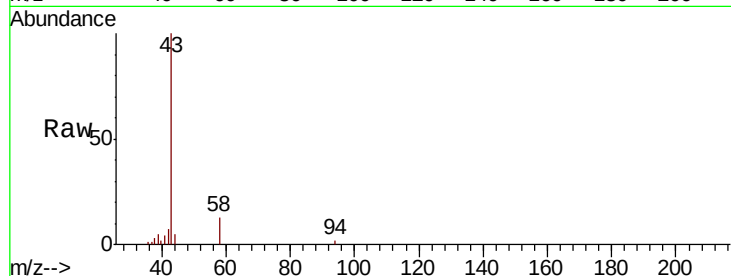
COMP-1

Tot Ion: 43 Resp: 82249

Ion Ratio Lower Upper

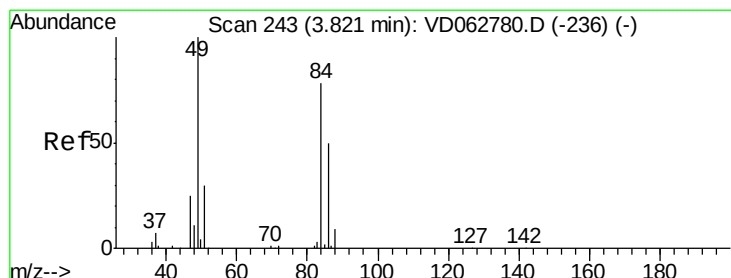
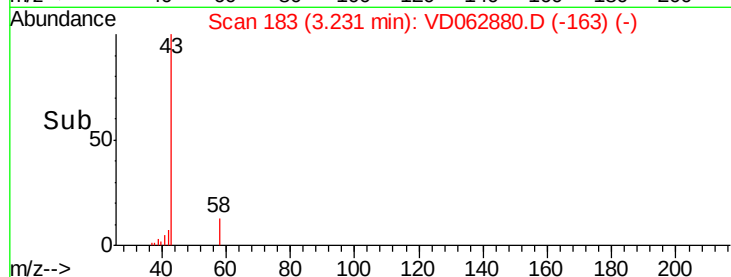
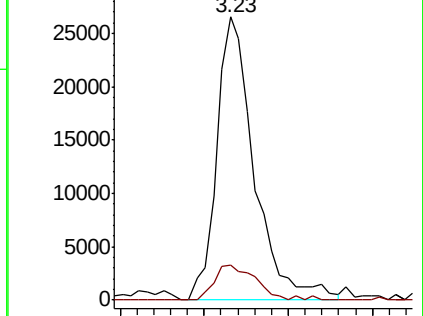
43 100

58 12.5 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 3.410 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.00 min

Lab File: VD062880.D

Acq: 25 Jun 2019 15:42

Tgt Ion: 84 Resp: 21217

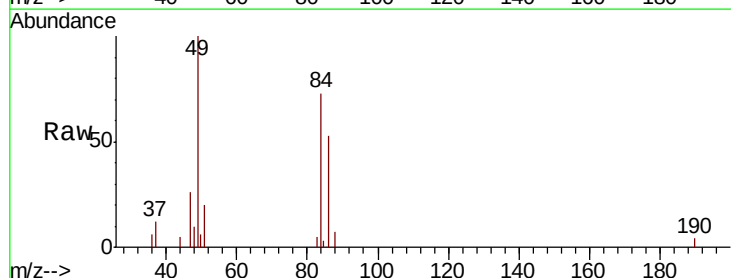
Ion Ratio Lower Upper

84 100

49 136.5 102.9 154.3

51 28.0 31.2 46.8#

86 72.7 51.4 77.2

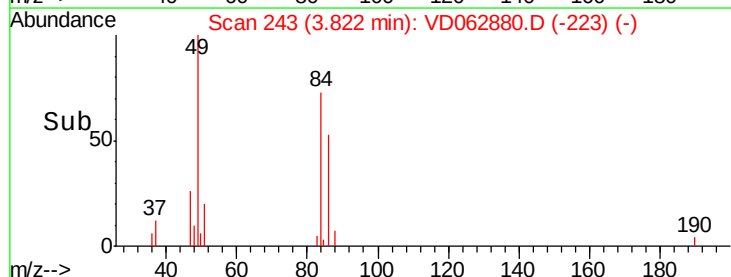
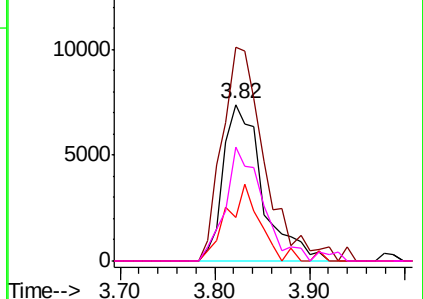


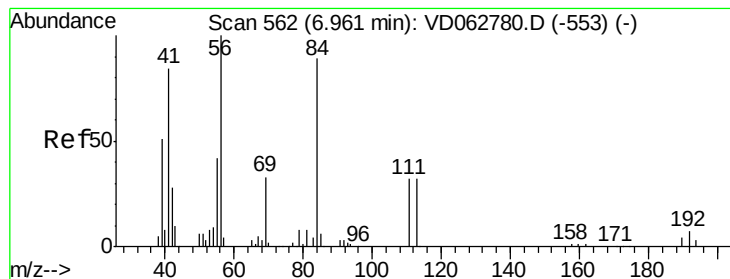
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#31

Cyclohexane

Concen: 2.201 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.09 min

Lab File: VD062880.D

Acq: 25 Jun 2019 15:42

Instrument :

MSVOA\_D

ClientSampleId :

COMP-1

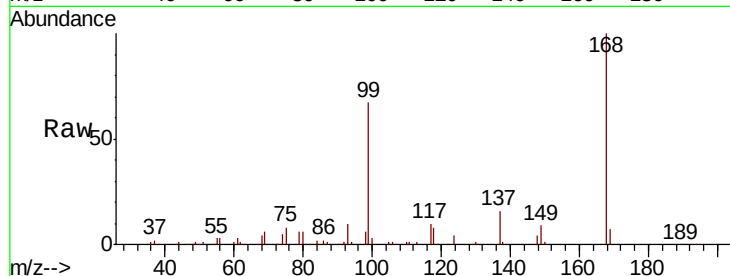
Tot Ion: 56 Resp: 16860

Ion Ratio Lower Upper

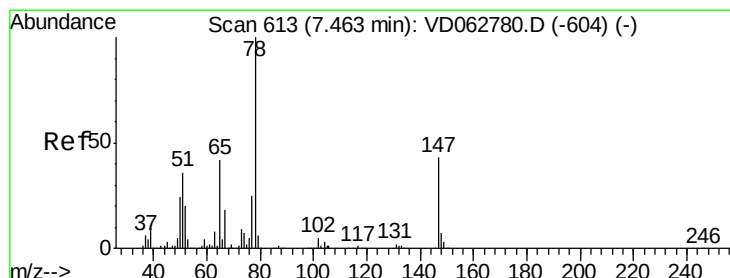
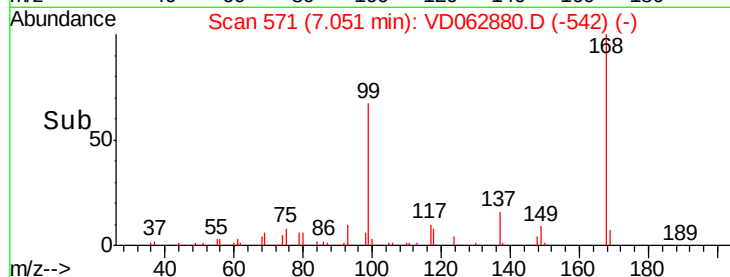
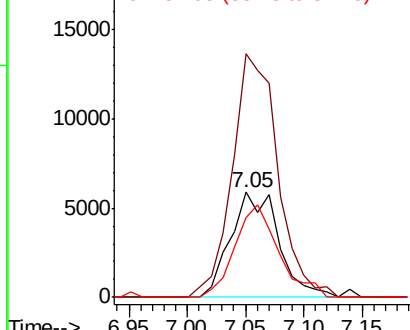
56 100

69 231.6 26.6 39.8#

84 75.5 75.5 113.3



Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: 41.774 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD062880.D

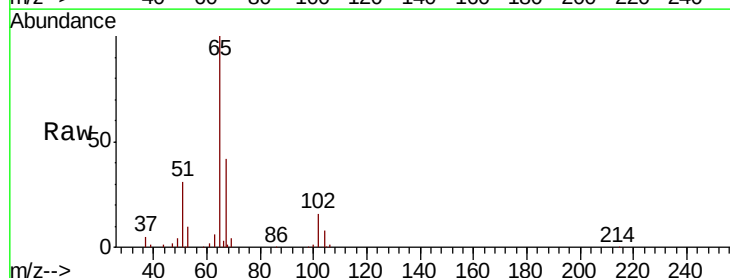
Acq: 25 Jun 2019 15:42

Tgt Ion: 65 Resp: 340783

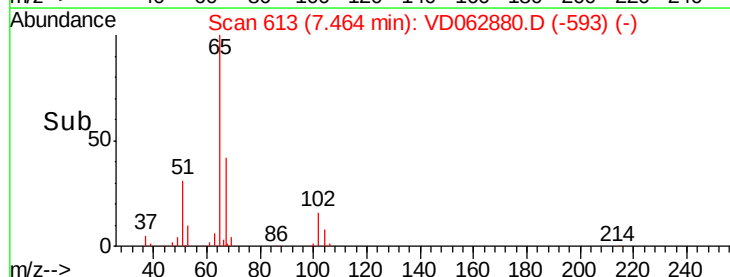
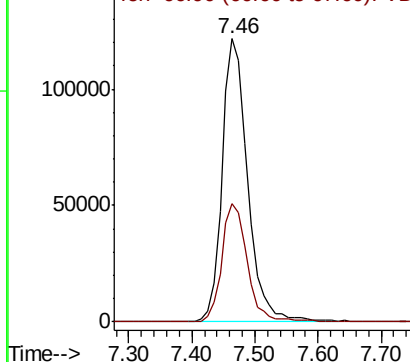
Ion Ratio Lower Upper

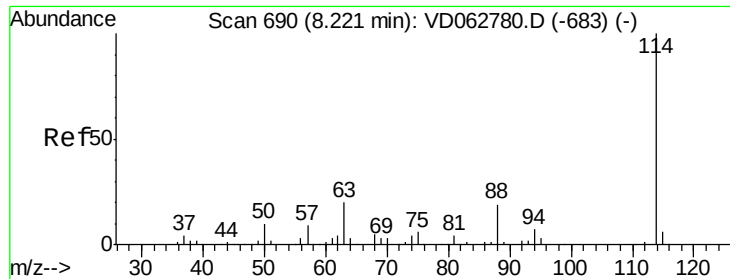
65 100

67 41.6 0.0 87.4



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. 0.01 min

Lab File: VD062880.D

Acq: 25 Jun 2019 15:42

Instrument :

MSVOA\_D

ClientSampled :

COMP-1

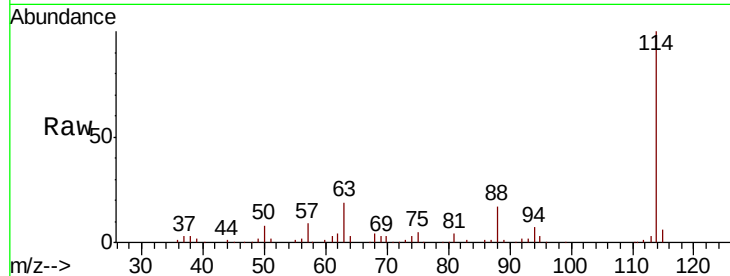
Tot Ion:114 Resp: 1071131

Ion Ratio Lower Upper

114 100

63 18.9 0.0 40.0

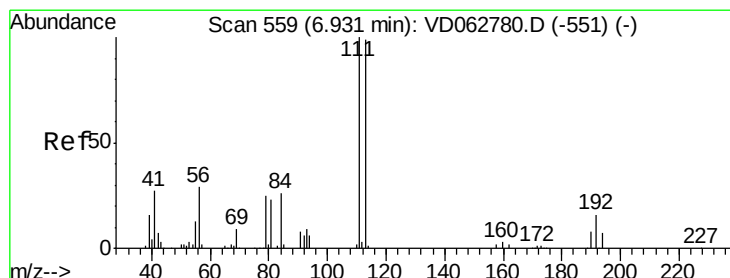
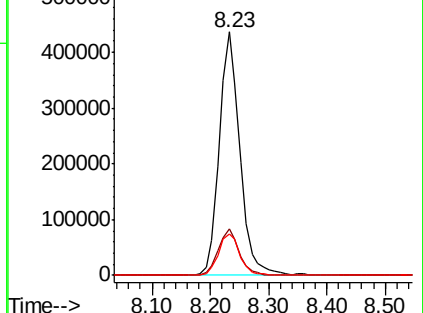
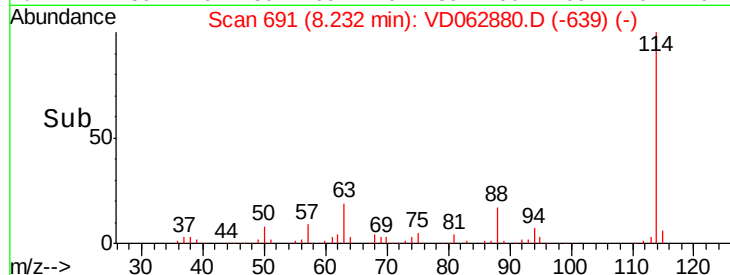
88 16.7 0.0 38.8



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: 43.044 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD062880.D

Acq: 25 Jun 2019 15:42

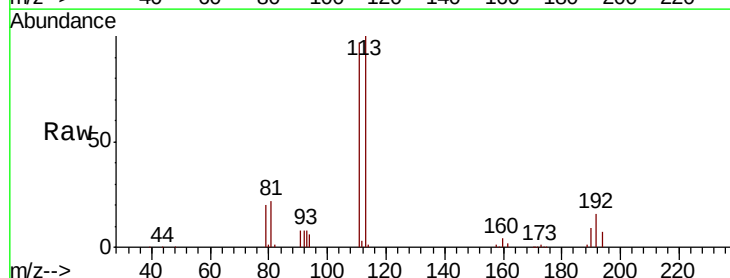
Tgt Ion:113 Resp: 388758

Ion Ratio Lower Upper

113 100

111 97.0 81.2 121.8

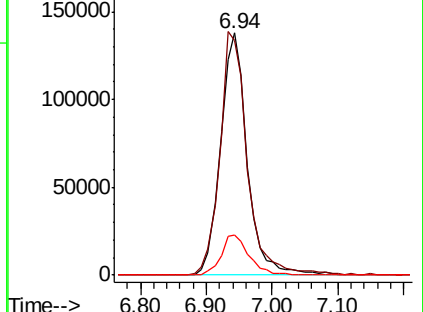
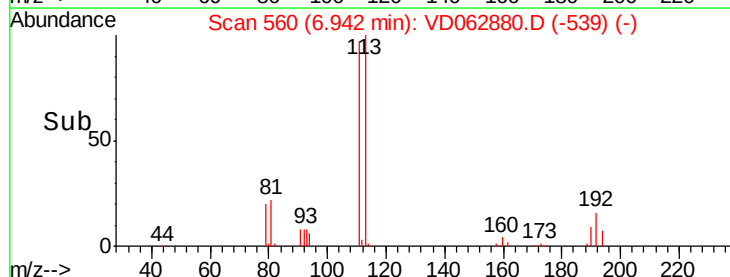
192 16.4 12.9 19.3

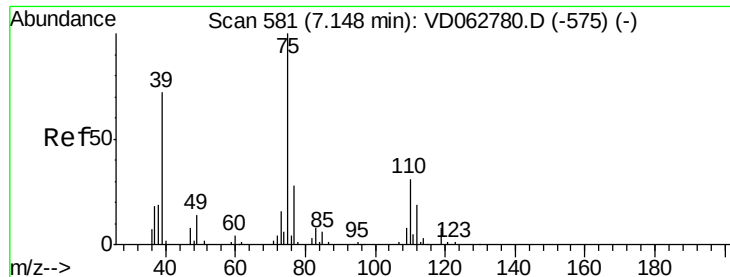


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.830 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.09 min

Lab File: VD062880.D

Acq: 25 Jun 2019 15:42

Instrument :

MSVOA\_D

ClientSampled :

COMP-1

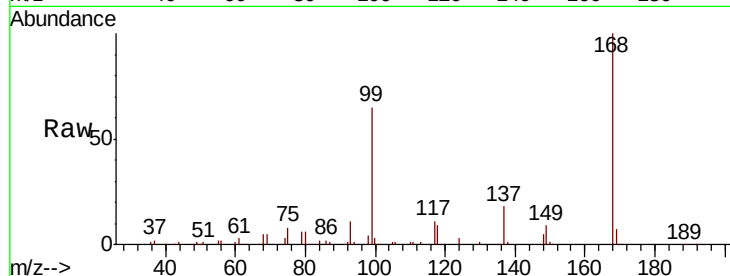
Tot Ion: 75 Resp: 59114

Ion Ratio Lower Upper

75 100

110 8.3 15.0 45.1#

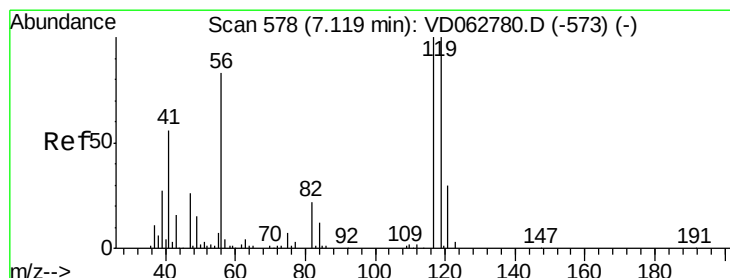
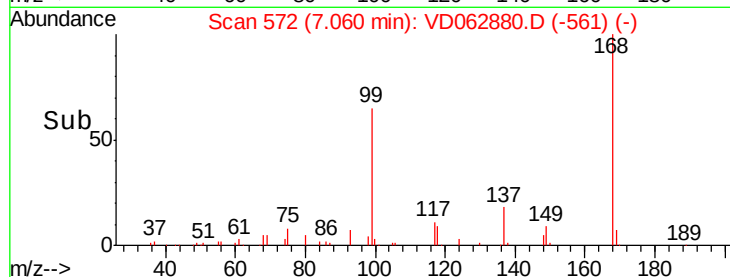
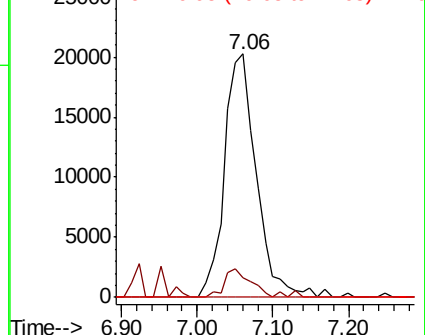
77 0.0 22.2 33.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#38

Carbon Tetrachloride

Concen: 5.192 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD062880.D

Acq: 25 Jun 2019 15:42

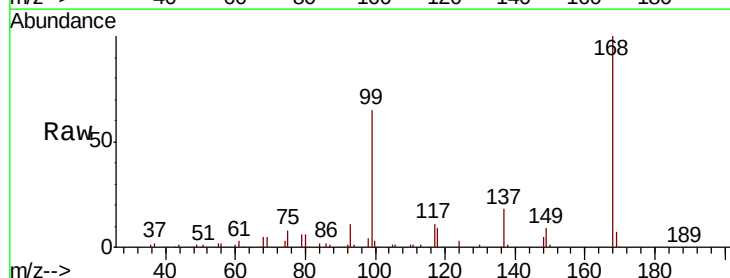
Tgt Ion: 117 Resp: 79171

Ion Ratio Lower Upper

117 100

119 3.0 75.4 113.2#

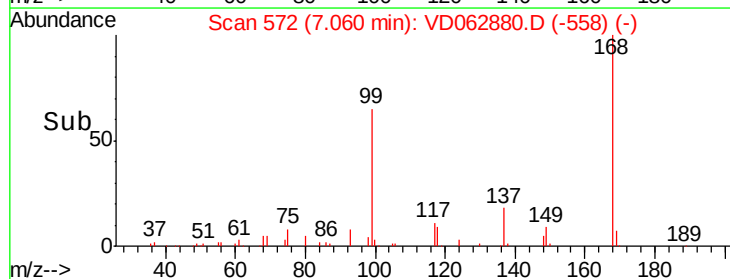
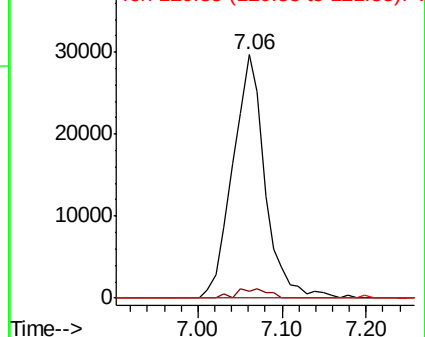
121 0.0 22.3 33.5#

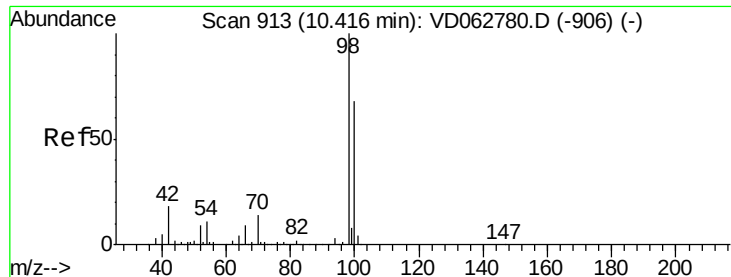


Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 118.85 (118.55 to 119.55): VDC

Ion 120.85 (120.55 to 121.55): VDC

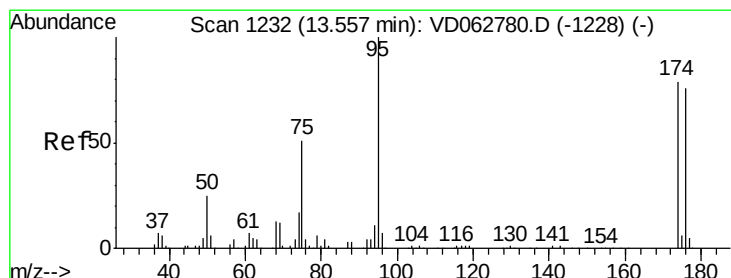
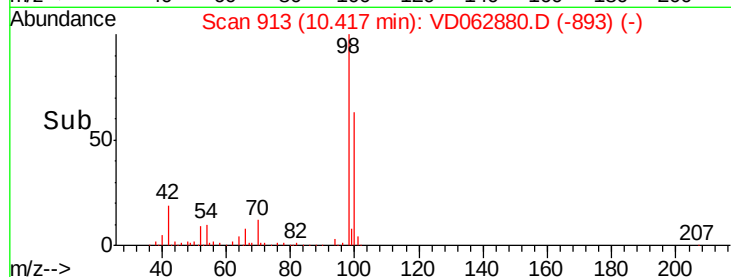
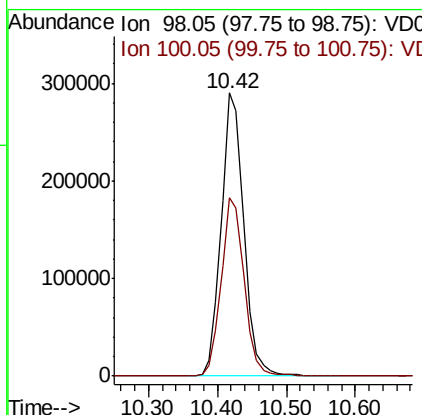
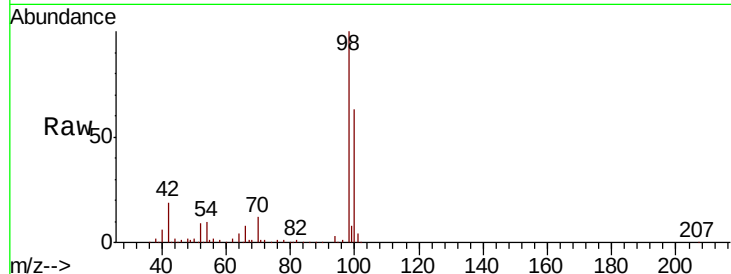




#50  
Toluene-d8  
Concen: 33.511 ug/l  
RT: 10.42 min Scan# 913  
Delta R.T. 0.00 min  
Lab File: VD062880.D  
Acq: 25 Jun 2019 15:42

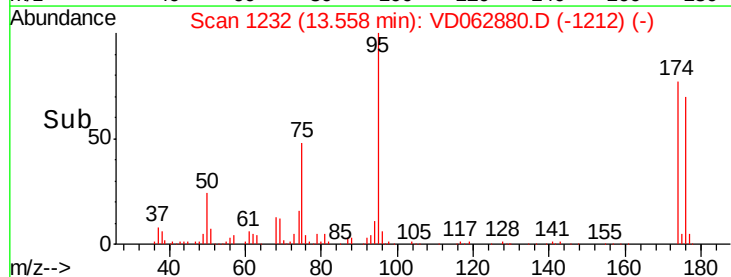
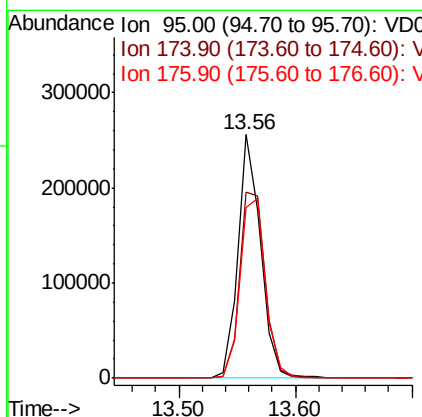
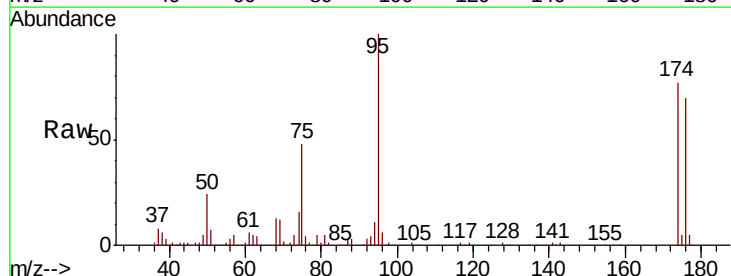
Instrument :  
MSVOA\_D  
ClientSampleId :  
COMP-1

Tot Ion: 98 Resp: 658734  
Ion Ratio Lower Upper  
98 100  
100 63.1 54.7 82.1

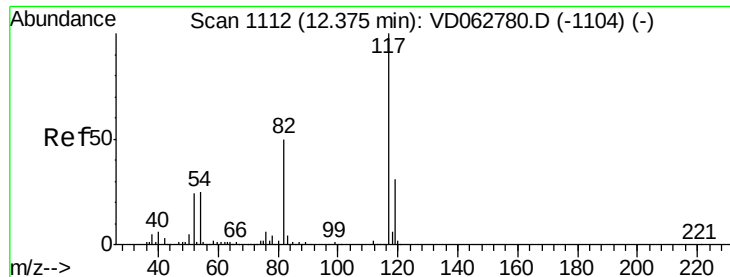


#62  
4-Bromofluorobenzene  
Concen: 38.501 ug/l  
RT: 13.56 min Scan# 1232  
Delta R.T. 0.00 min  
Lab File: VD062880.D  
Acq: 25 Jun 2019 15:42

Tgt Ion: 95 Resp: 344131  
Ion Ratio Lower Upper  
95 100  
174 76.6 0.0 158.0  
176 70.3 0.0 151.6



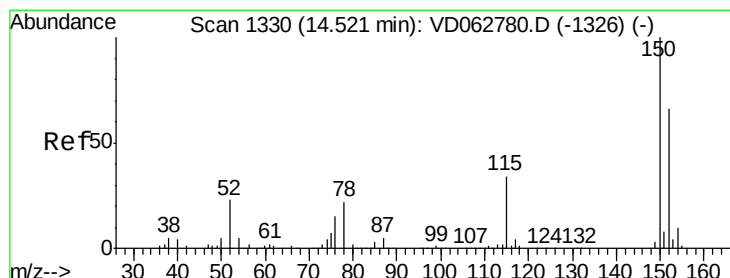
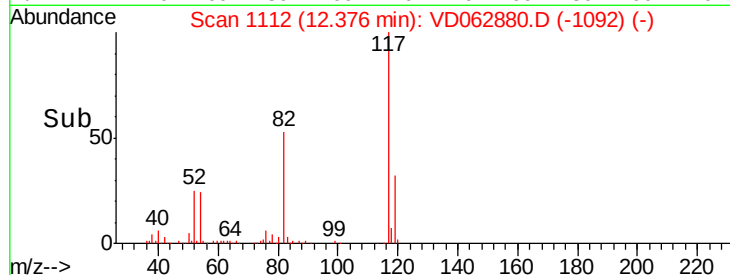
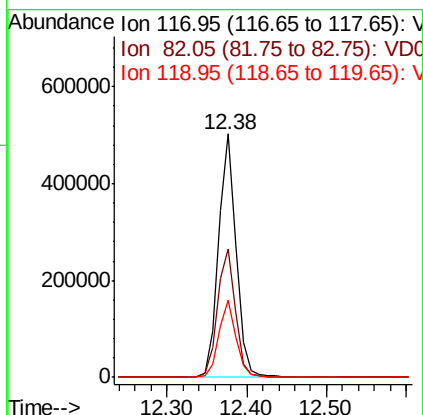
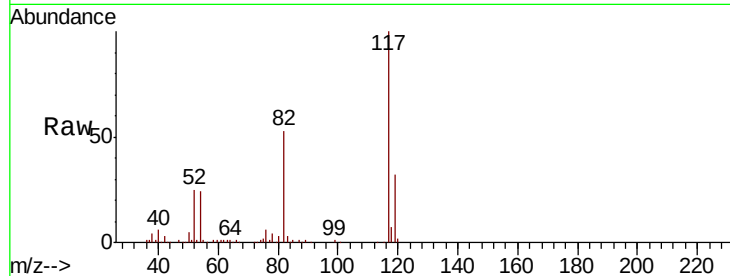




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1112  
Delta R.T. 0.00 min  
Lab File: VD062880.D  
Acq: 25 Jun 2019 15:42

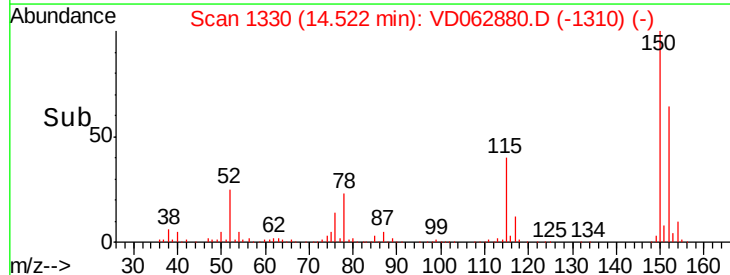
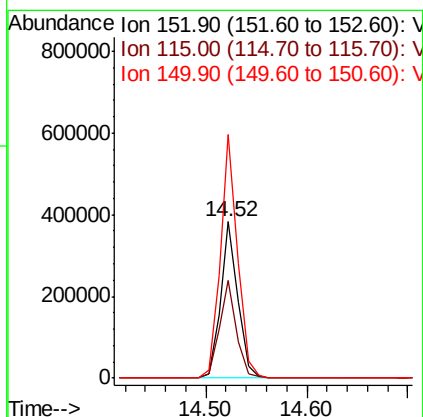
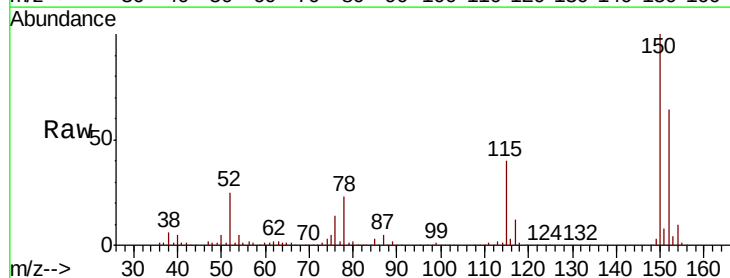
Instrument :  
MSVOA\_D  
ClientSampleId :  
COMP-1

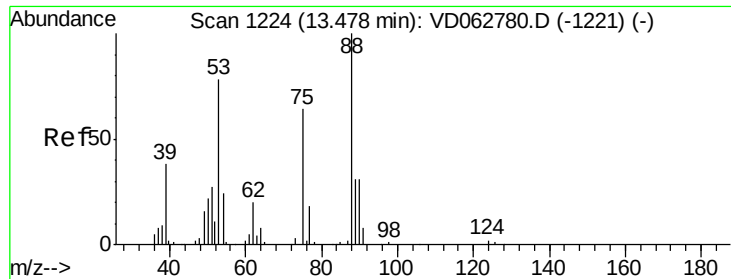
Tot Ion:117 Resp: 786095  
Ion Ratio Lower Upper  
117 100  
82 52.8 40.4 60.6  
119 31.8 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VD062880.D  
Acq: 25 Jun 2019 15:42

Tgt Ion:152 Resp: 455816  
Ion Ratio Lower Upper  
152 100  
115 62.3 29.2 87.6  
150 156.1 0.0 305.8





#81

trans-1,4-Dichloro-2-butene

Concen: 112.738 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062880.D

Acq: 25 Jun 2019 15:42

Instrument :

MSVOA\_D

ClientSampleId :

COMP-1

Tot Ion: 75 Resp: 155478

Ion Ratio Lower Upper

75 100

53 0.5 97.8 146.8#

89 0.0 39.4 59.2#

