

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD082219\  
 Data File : VD063740.D  
 Acq On : 22 Aug 2019 18:19  
 Operator : JC/SY  
 Sample : K4404-04RE  
 Misc : 5.78g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 T1-L-(2.5)RE

Quant Time: Aug 23 07:00:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080919S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 10 06:42:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 819833   | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 1087763  | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 918434   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 446263   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 554827   | 63.31  | ug/l    | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 126.62% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 620236   | 67.70  | ug/l    | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 135.40% |          |
| 50) Toluene-d8              | 10.41 | 98   | 1321850  | 65.63  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 131.26% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 528676   | 57.91  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 115.82% |          |

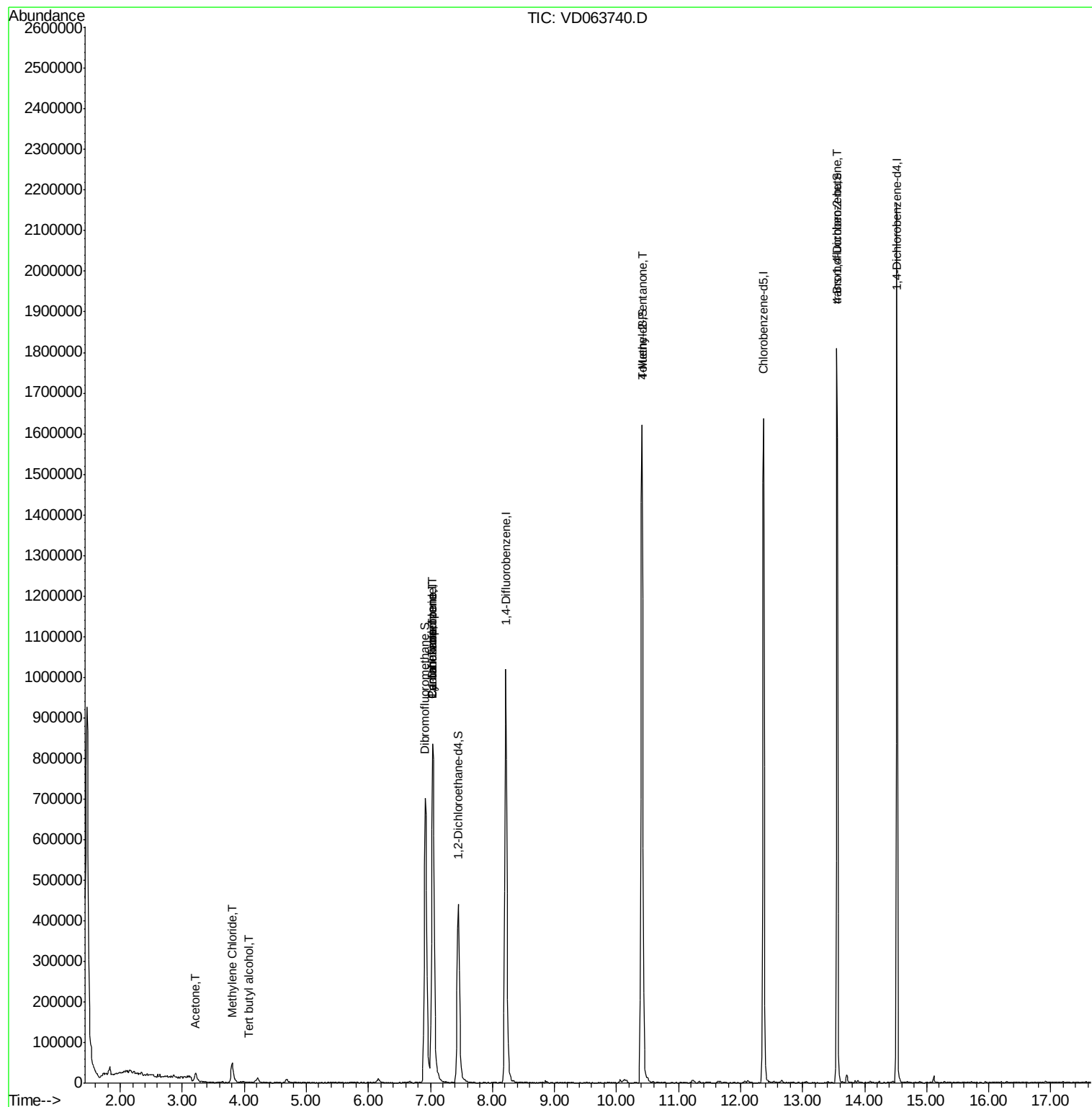
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 4.08  | 59   | 613      | 1.607   | ug/l # | 71     |
| 16) Acetone                    | 3.22  | 43   | 39521    | 22.185  | ug/l # | 85     |
| 20) Methylene Chloride         | 3.81  | 84   | 29512    | 3.831   | ug/l   | 96     |
| 31) Cyclohexane                | 7.05  | 56   | 18769    | 2.372   | ug/l # | 12     |
| 36) 1,1-Dichloropropene        | 7.03  | 75   | 64007    | 6.656   | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 78698    | 5.430   | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 10.41 | 43   | 7456     | 2.019   | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 240798   | 174.928 | ug/l # | 1      |

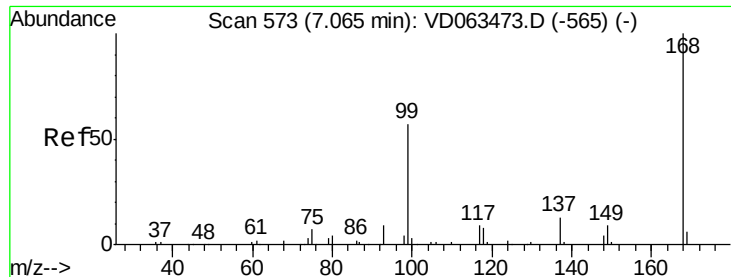
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Aug 10 06:42:47 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD063740.D

Acq: 22 Aug 2019 18:19

Instrument :

MSVOA\_D

ClientSampleId :

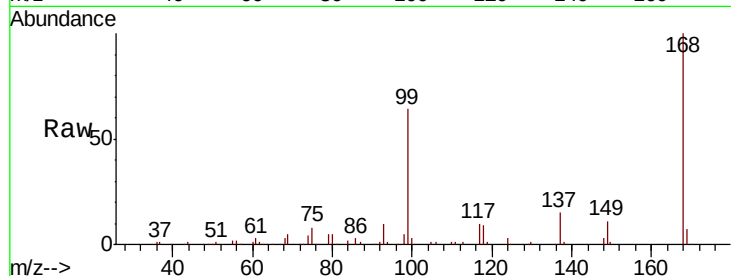
T1-L-(2.5)RE

Tgt Ion:168 Resp: 819833

Ion Ratio Lower Upper

168 100

99 64.4 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

300000

250000

200000

150000

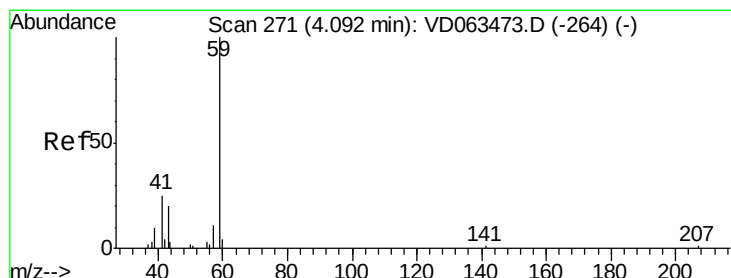
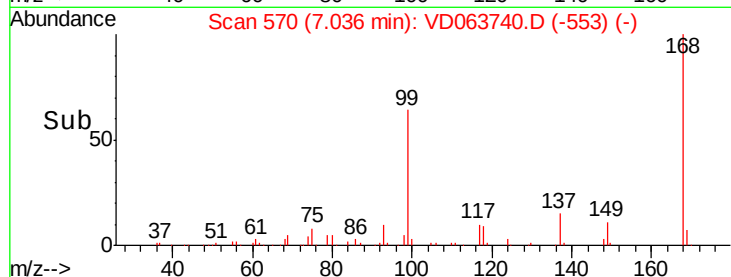
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.607 ug/l

RT: 4.08 min Scan# 270

Delta R.T. -0.01 min

Lab File: VD063740.D

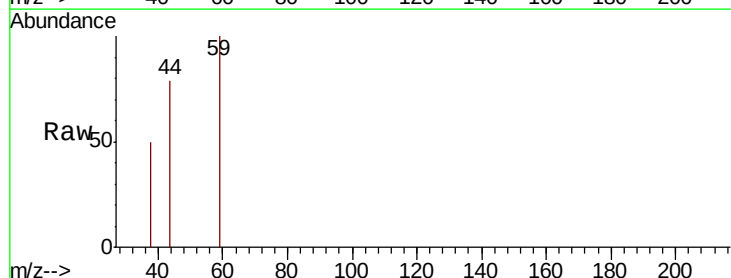
Acq: 22 Aug 2019 18:19

Tgt Ion: 59 Resp: 613

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.08

800

600

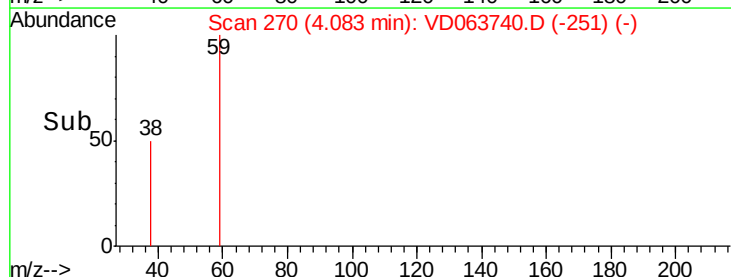
400

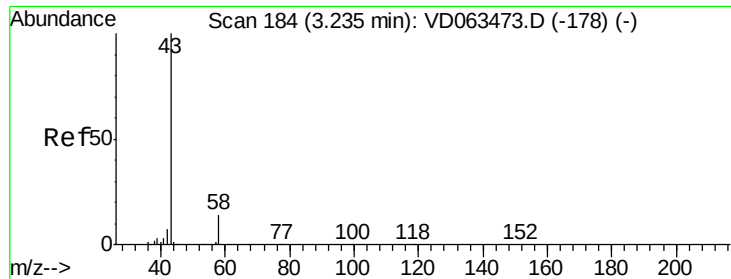
200

0

Time-->

4.04 4.06 4.08 4.10 4.12





#16

Acetone

Concen: 22.185 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD063740.D

Acq: 22 Aug 2019 18:19

Instrument :

MSVOA\_D

ClientSampleId :

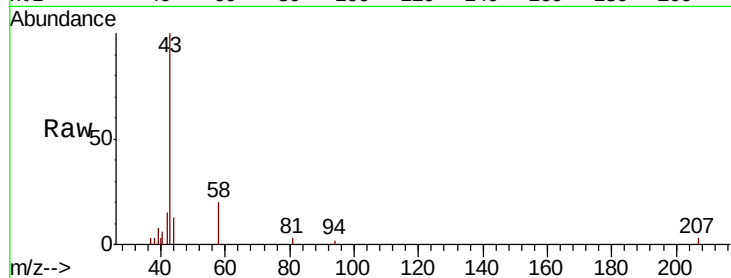
T1-L-(2.5)RE

Tgt Ion: 43 Resp: 39521

Ion Ratio Lower Upper

43 100

58 20.4 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.22

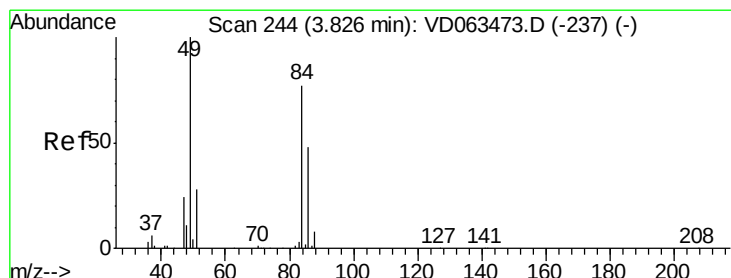
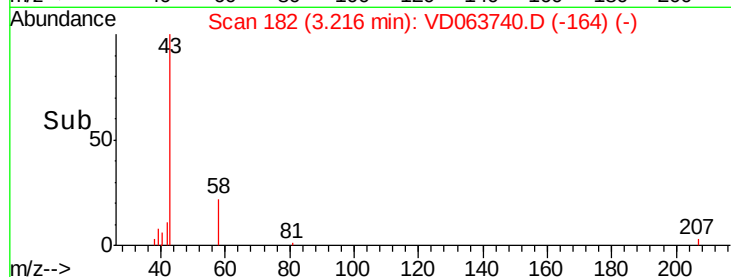
15000

10000

5000

0

Time--> 3.10 3.20 3.30



#20

Methylene Chloride

Concen: 3.831 ug/l

RT: 3.81 min Scan# 242

Delta R.T. -0.02 min

Lab File: VD063740.D

Acq: 22 Aug 2019 18:19

Tgt Ion: 84 Resp: 29512

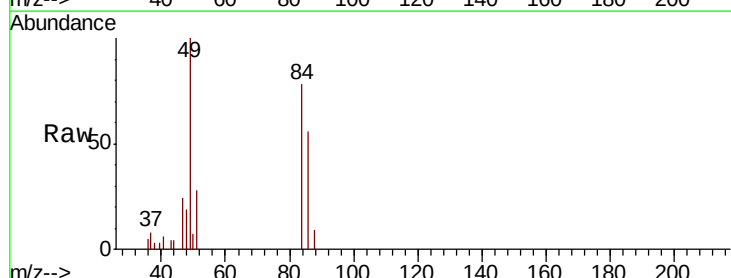
Ion Ratio Lower Upper

84 100

49 128.2 103.4 155.2

51 36.0 28.5 42.7

86 72.0 49.4 74.2



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

20000

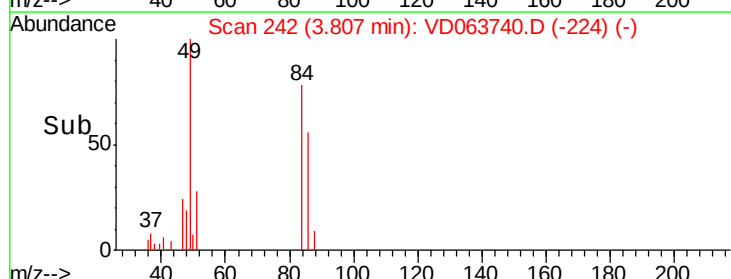
15000

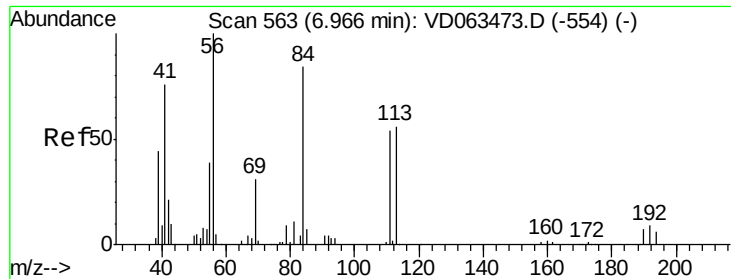
10000

5000

0

Time--> 3.70 3.80 3.90

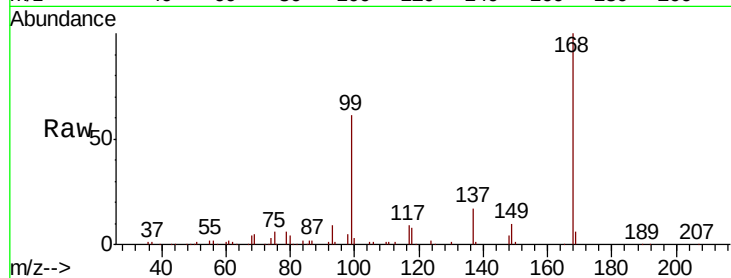




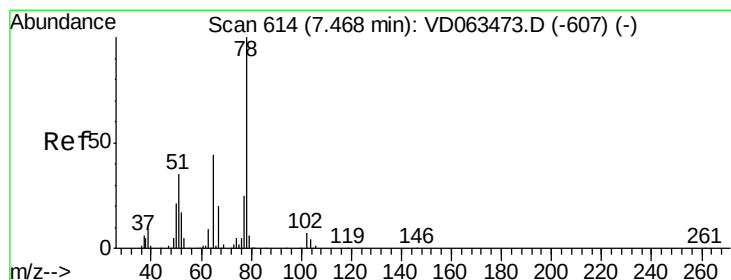
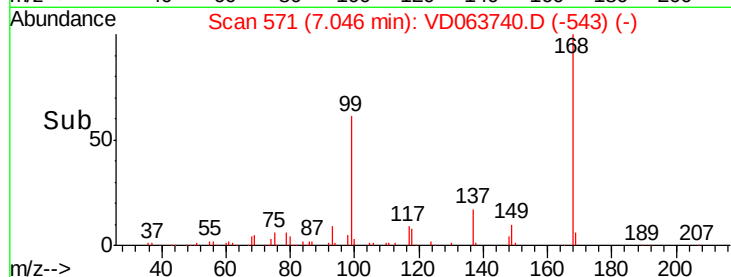
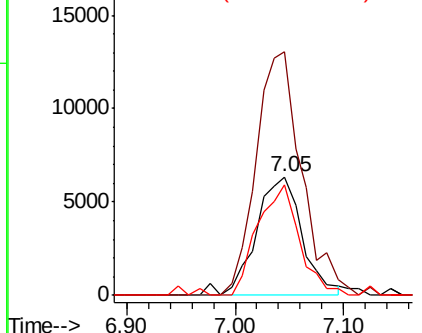
#31  
Cyclohexane  
Concen: 2.372 ug/l  
RT: 7.05 min Scan# 571  
Delta R.T. 0.08 min  
Lab File: VD063740.D  
Acq: 22 Aug 2019 18:19

Instrument :  
MSVOA\_D  
ClientSampleId :  
T1-L-(2.5)RE

Tgt Ion: 56 Resp: 18769  
Ion Ratio Lower Upper  
56 100  
69 205.4 25.0 37.6#  
84 93.5 69.7 104.5

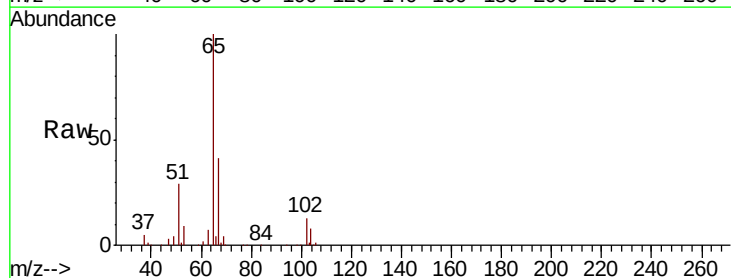


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

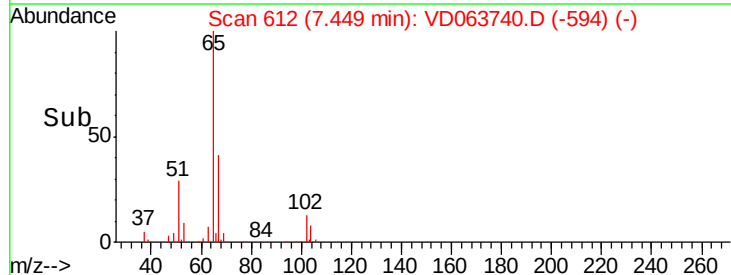
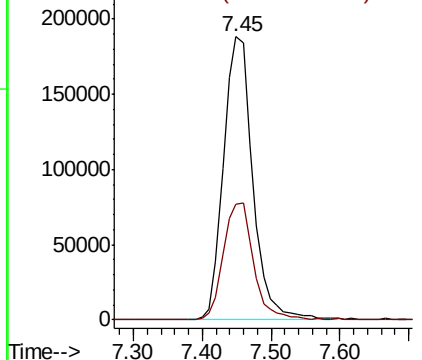


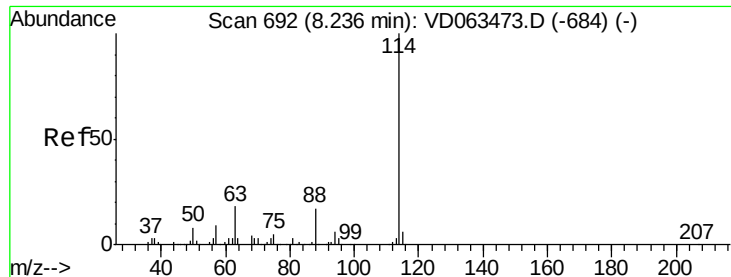
#33  
1,2-Dichloroethane-d4  
Concen: 63.312 ug/l  
RT: 7.45 min Scan# 612  
Delta R.T. -0.02 min  
Lab File: VD063740.D  
Acq: 22 Aug 2019 18:19

Tgt Ion: 65 Resp: 554827  
Ion Ratio Lower Upper  
65 100  
67 41.0 0.0 89.2



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# 690

Delta R.T. -0.02 min

Lab File: VD063740.D

Acq: 22 Aug 2019 18:19

Instrument :

MSVOA\_D

ClientSampleId :

T1-L-(2.5)RE

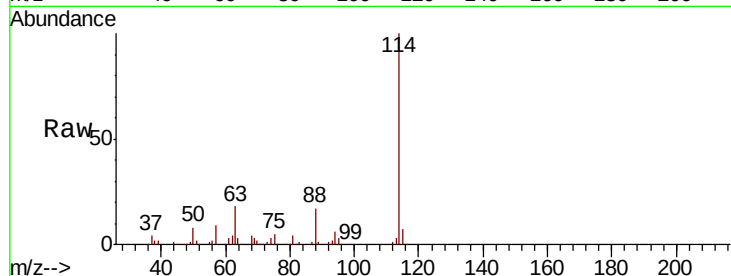
Tgt Ion:114 Resp: 1087763

Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.2

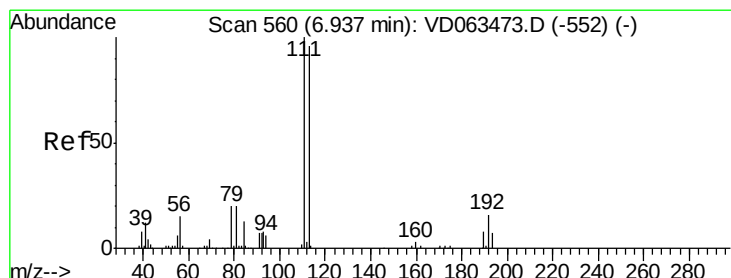
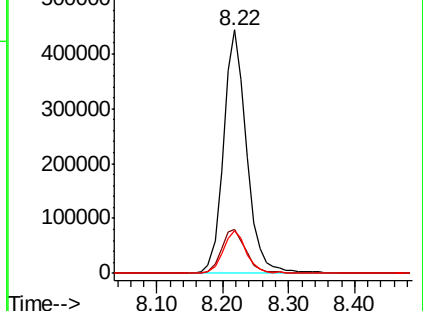
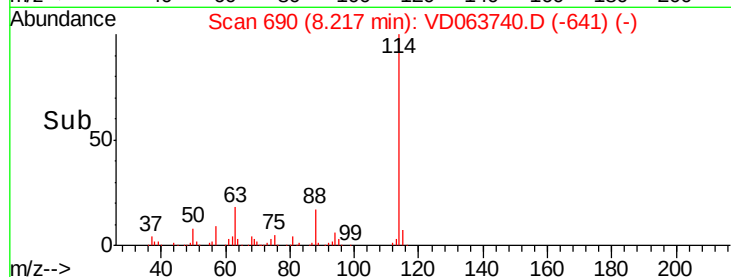
88 17.3 0.0 35.0



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: 67.702 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063740.D

Acq: 22 Aug 2019 18:19

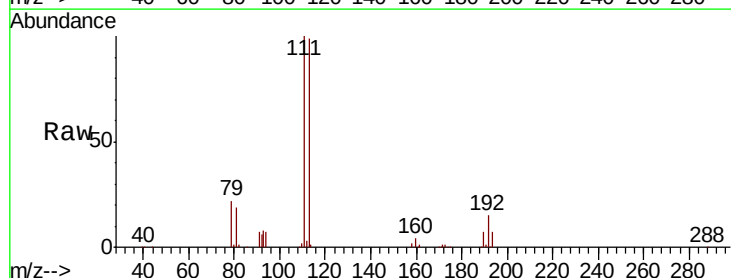
Tgt Ion:113 Resp: 620236

Ion Ratio Lower Upper

113 100

111 100.6 83.1 124.7

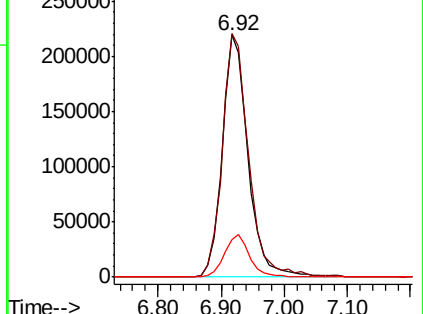
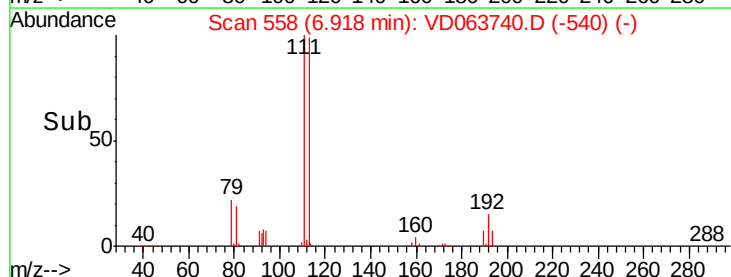
192 15.5 13.1 19.7

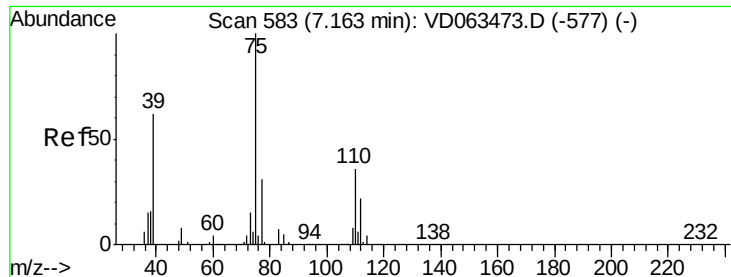


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

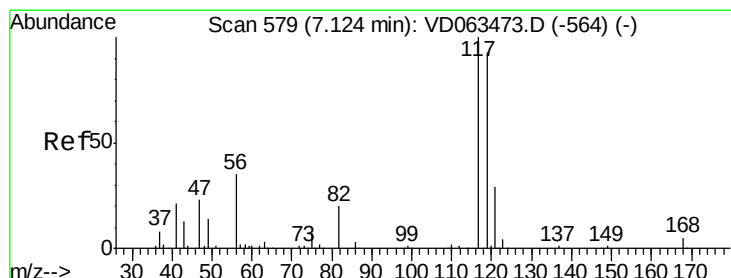
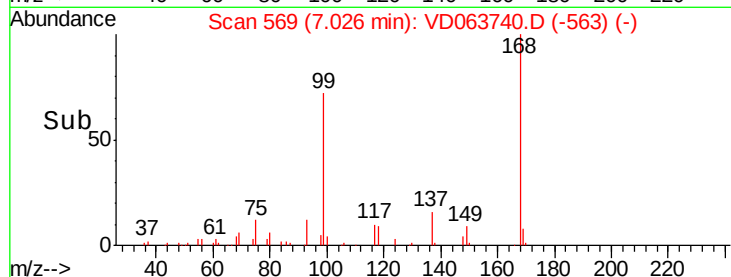
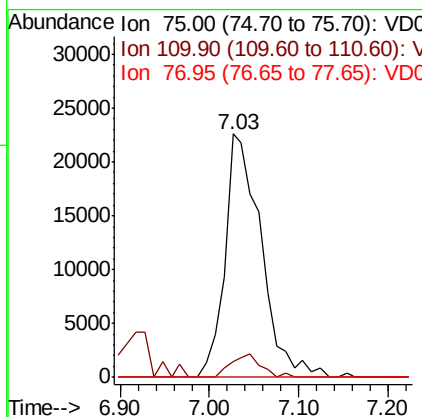
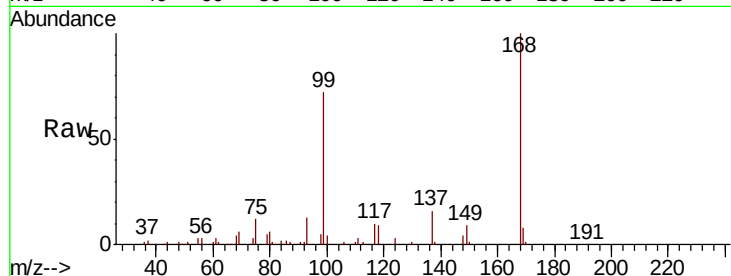




#36  
 1,1-Dichloropropene  
 Concen: 6.656 ug/l  
 RT: 7.03 min Scan# 569  
 Delta R.T. -0.14 min  
 Lab File: VD063740.D  
 Acq: 22 Aug 2019 18:19

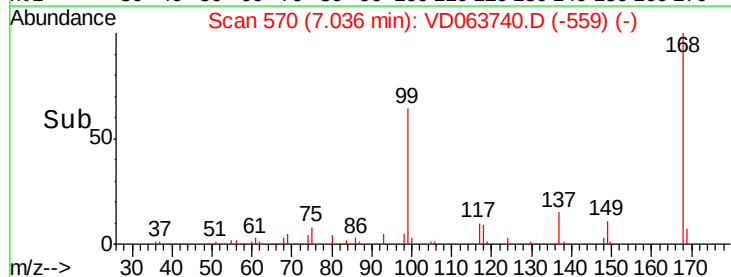
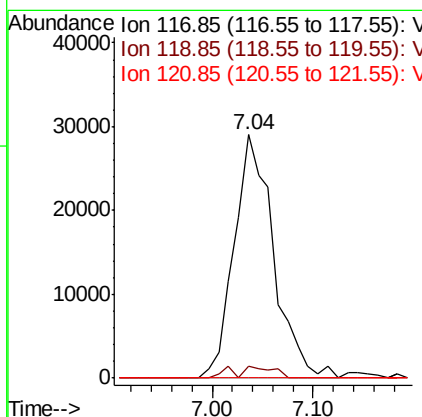
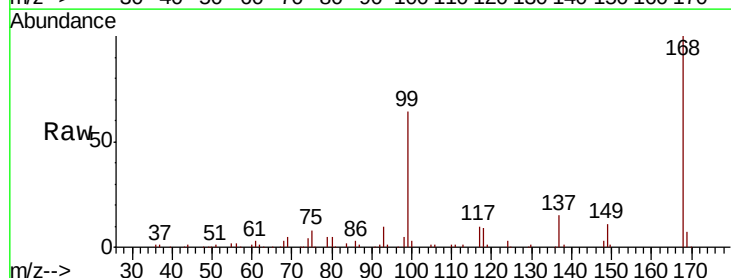
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 T1-L-(2.5)RE

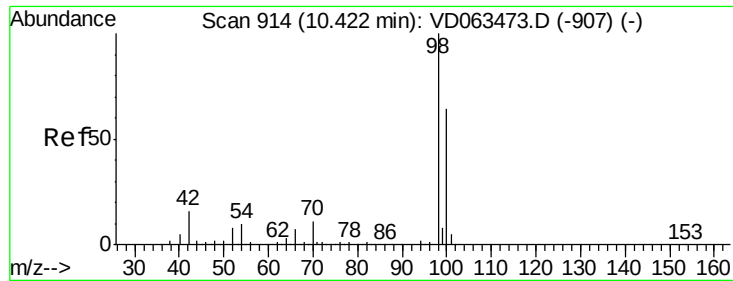
Tgt Ion: 75 Resp: 64007  
 Ion Ratio Lower Upper  
 75 100  
 110 6.3 17.6 52.8#  
 77 0.0 24.3 36.5#



#38  
 Carbon Tetrachloride  
 Concen: 5.430 ug/l  
 RT: 7.04 min Scan# 570  
 Delta R.T. -0.09 min  
 Lab File: VD063740.D  
 Acq: 22 Aug 2019 18:19

Tgt Ion: 117 Resp: 78698  
 Ion Ratio Lower Upper  
 117 100  
 119 4.8 74.2 111.2#  
 121 0.0 23.1 34.7#

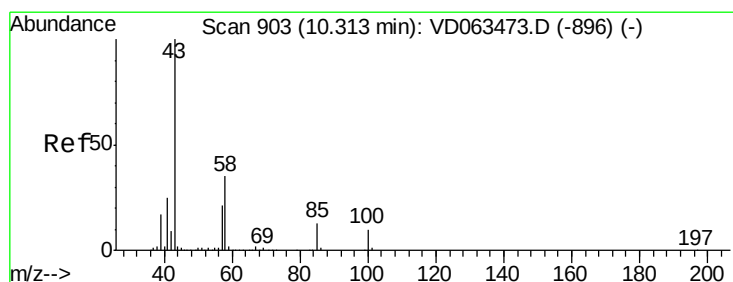
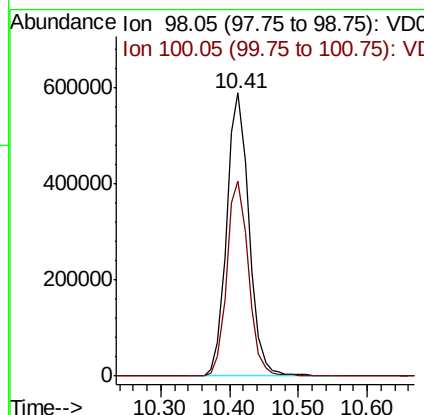
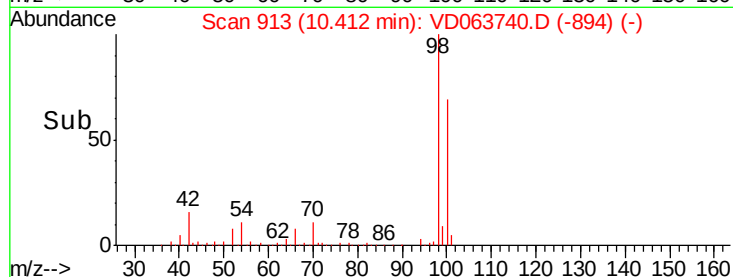
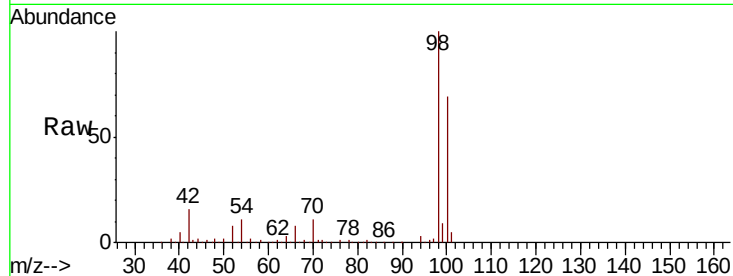




#50  
Toluene-d8  
Concen: 65.629 ug/l  
RT: 10.41 min Scan# 913  
Delta R.T. -0.01 min  
Lab File: VD063740.D  
Acq: 22 Aug 2019 18:19

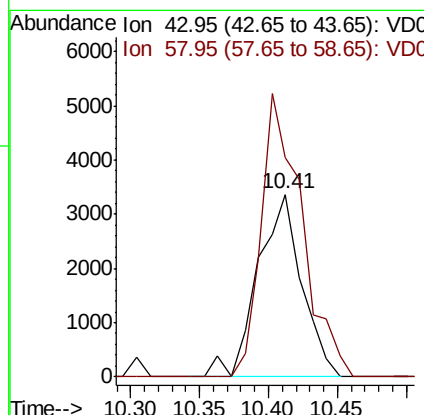
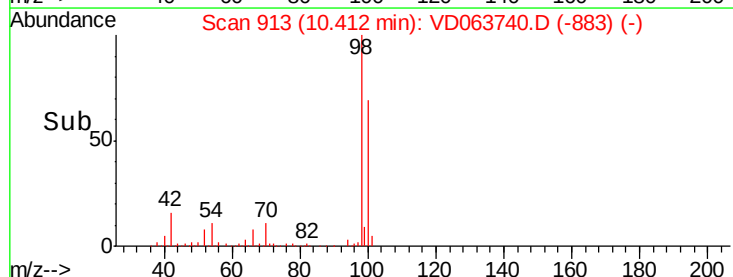
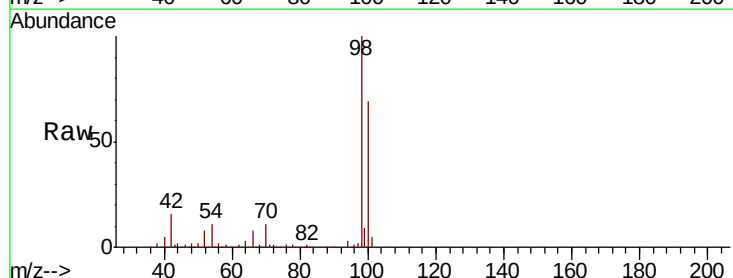
Instrument :  
MSVOA\_D  
ClientSampleId :  
T1-L-(2.5)RE

Tgt Ion: 98 Resp: 1321850  
Ion Ratio Lower Upper  
98 100  
100 68.8 51.7 77.5

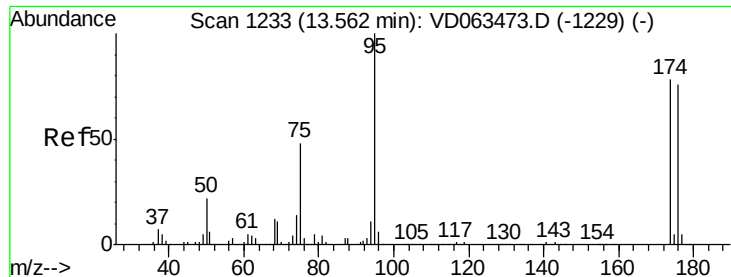


#51  
4-Methyl-2-Pentanone  
Concen: 2.019 ug/l  
RT: 10.41 min Scan# 913  
Delta R.T. 0.10 min  
Lab File: VD063740.D  
Acq: 22 Aug 2019 18:19

Tgt Ion: 43 Resp: 7456  
Ion Ratio Lower Upper  
43 100  
58 120.6 28.0 42.0#







#62

4-Bromofluorobenzene

Concen: 57.912 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063740.D

Acq: 22 Aug 2019 18:19

Instrument :

MSVOA\_D

ClientSampleId :

T1-L-(2.5)RE

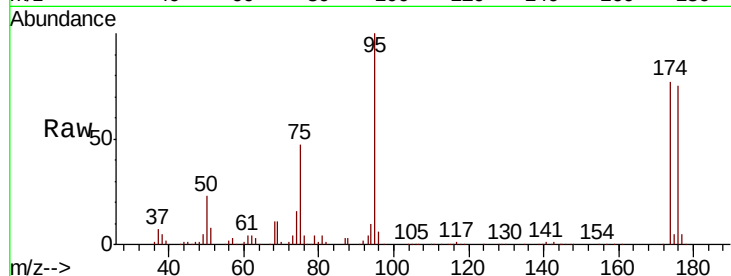
Tgt Ion: 95 Resp: 528676

Ion Ratio Lower Upper

95 100

174 76.7 0.0 155.4

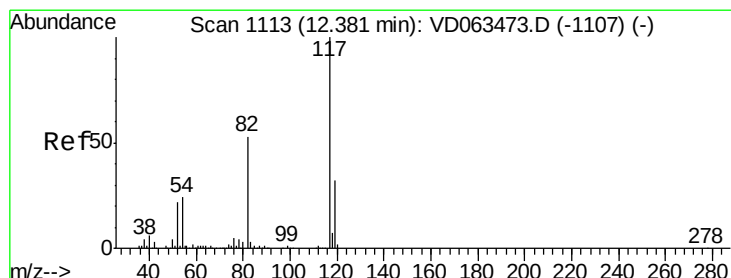
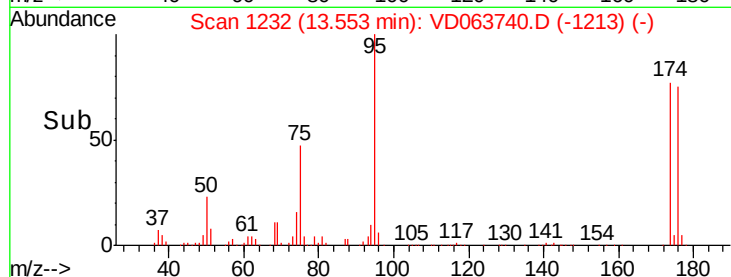
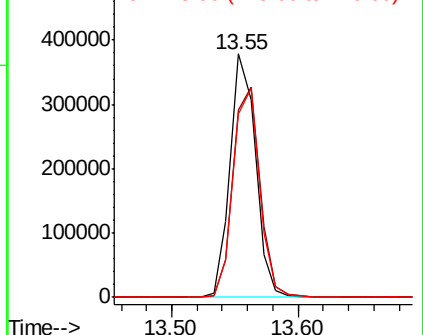
176 75.3 0.0 152.4



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. -0.01 min

Lab File: VD063740.D

Acq: 22 Aug 2019 18:19

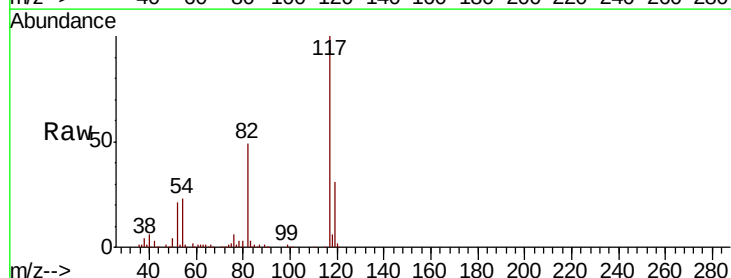
Tgt Ion: 117 Resp: 918434

Ion Ratio Lower Upper

117 100

82 49.4 42.0 63.0

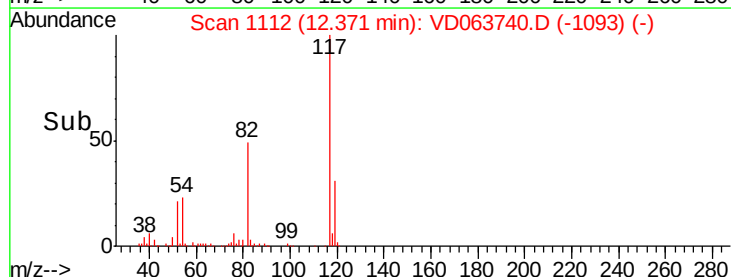
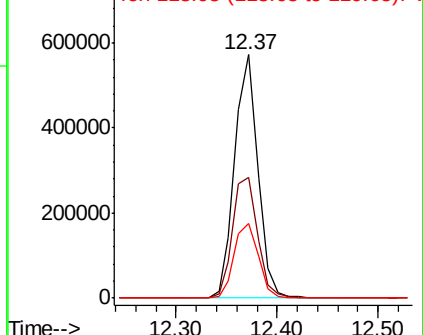
119 30.9 25.4 38.0

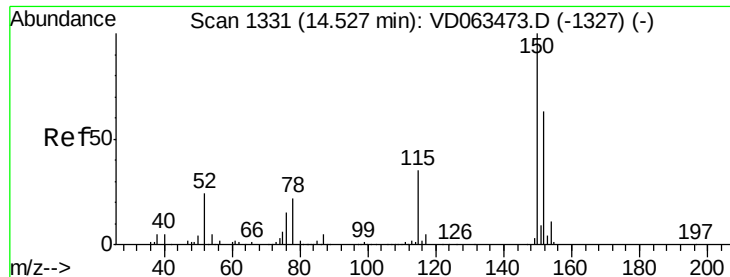


Abundance Ion 116.95 (116.65 to 117.65): V

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. -0.01 min

Lab File: VD063740.D

Acq: 22 Aug 2019 18:19

Instrument :

MSVOA\_D

ClientSampleId :

T1-L-(2.5)RE

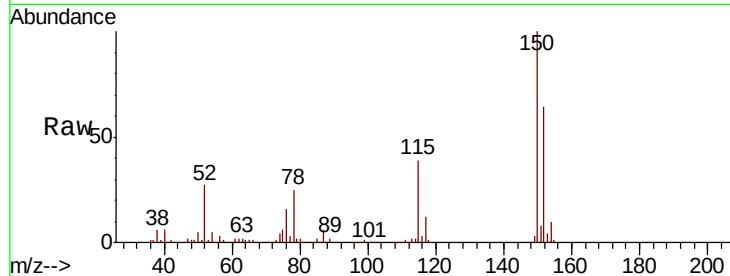
Tgt Ion:152 Resp: 446263

Ion Ratio Lower Upper

152 100

115 60.3 30.9 92.7

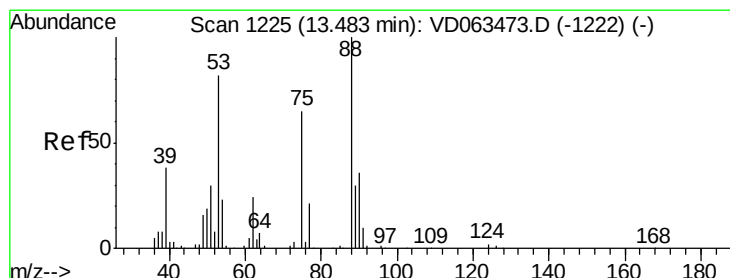
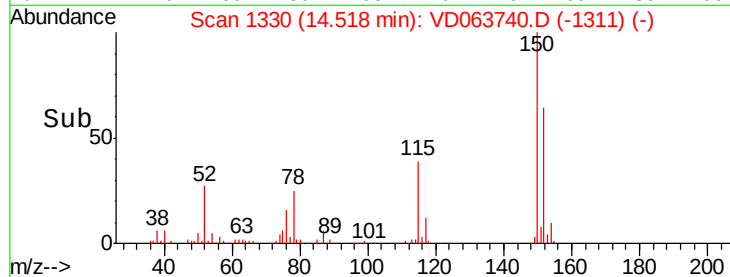
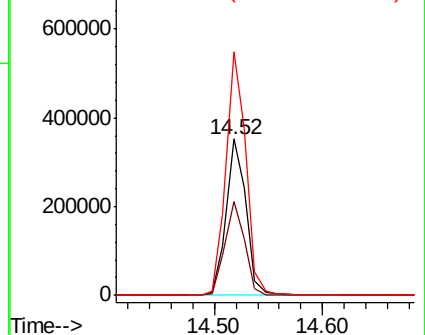
150 156.0 0.0 318.6



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: 174.928 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063740.D

Acq: 22 Aug 2019 18:19

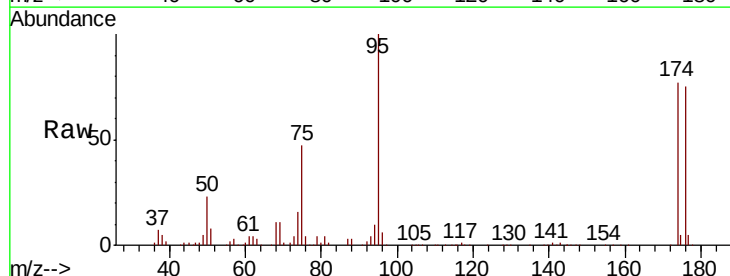
Tgt Ion: 75 Resp: 240798

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#



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

