

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081320\  
 Data File : VD066221.D  
 Acq On : 13 Aug 2020 20:14  
 Operator : VA/SY  
 Sample : L3660-03  
 Misc : 5.76G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 7211979

Quant Time: Aug 14 03:04:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 308130   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 495195   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 585274   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 343506   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 132251   | 48.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.22%  |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 152897   | 48.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.48%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 620398   | 53.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.18% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 296154   | 70.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 141.94% |          |

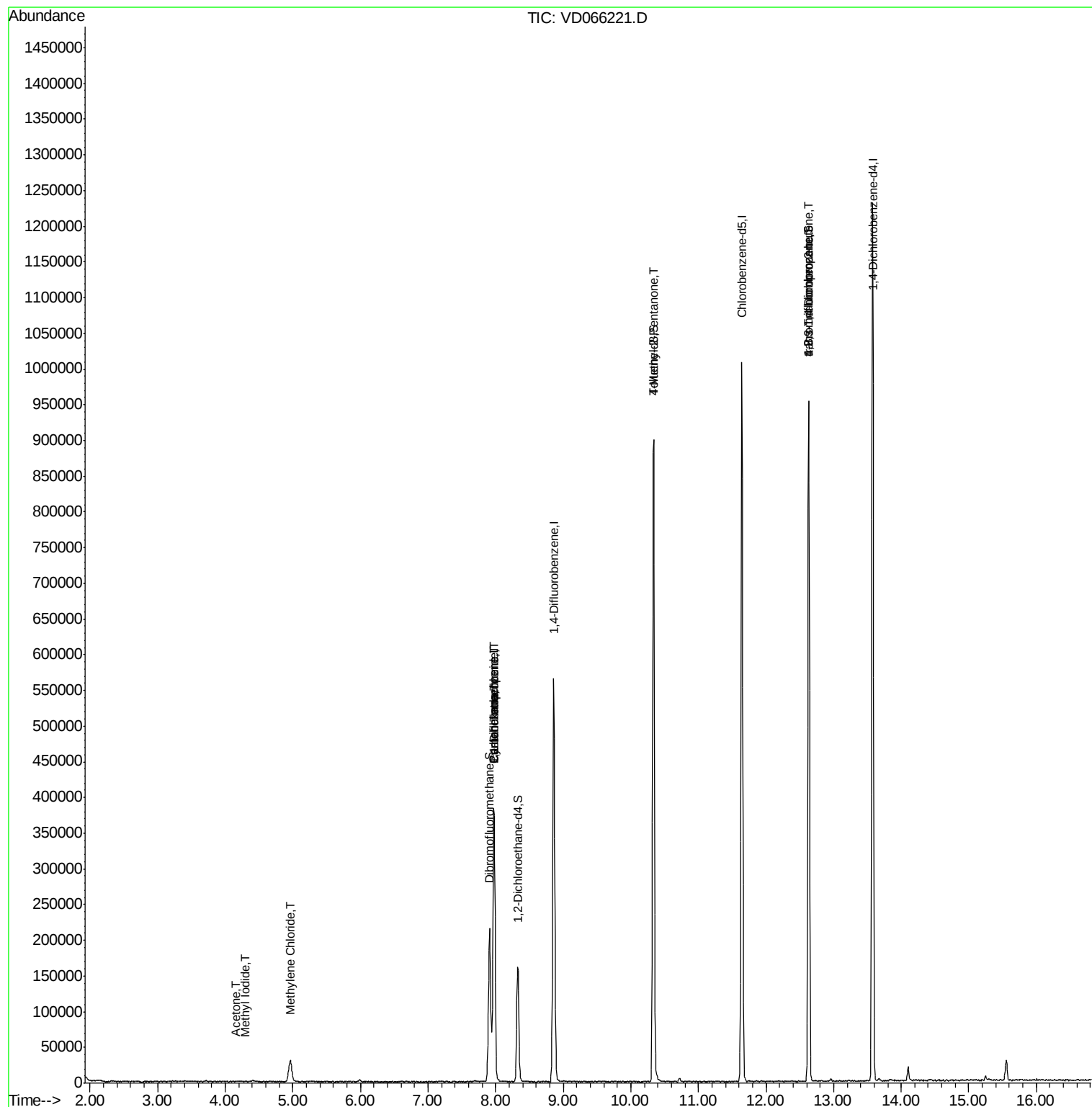
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 4.29  | 142  | 66       | 6.733     | ug/l # | 39     |
| 11) Tert butyl alcohol         | 5.20  | 59   | 55       | Below Cal | #      | 76     |
| 16) Acetone                    | 4.16  | 43   | 774      | 1.484     | ug/l # | 44     |
| 20) Methylene Chloride         | 4.97  | 84   | 23892    | 3.652     | ug/l   | 99     |
| 31) Cyclohexane                | 7.98  | 56   | 5885     | 1.222     | ug/l # | 2      |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 20460    | 4.397     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 29337    | 5.653     | ug/l # | 13     |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43   | 2828     | 1.516     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 152439   | 53.215    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 152439   | 117.635   | ug/l # | 13     |

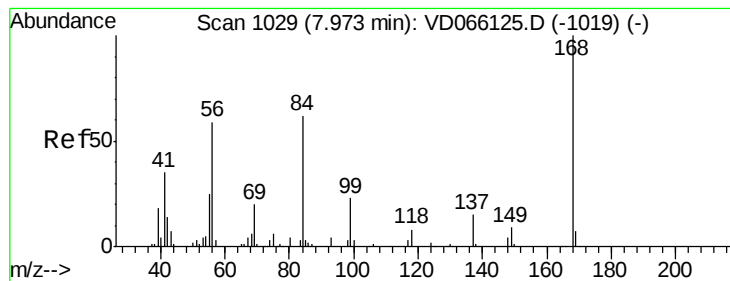
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081320\  
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Acq On : 13 Aug 2020 20:14  
Operator : VA/SY  
Sample : L3660-03  
Misc : 5.76G/5.00ml/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
7211979

Quant Time: Aug 14 03:04:51 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 05 13:49:25 2020  
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: VD066221.D

Acq: 13 Aug 2020 20:14

Instrument :

MSVOA\_D

ClientSampleId :

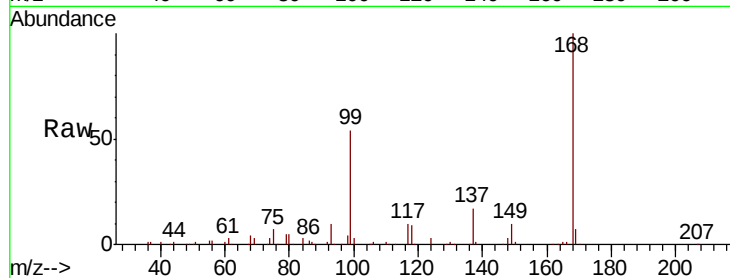
7211979

Tot Ion:168 Resp: 308130

Ion Ratio Lower Upper

168 100

99 53.7 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

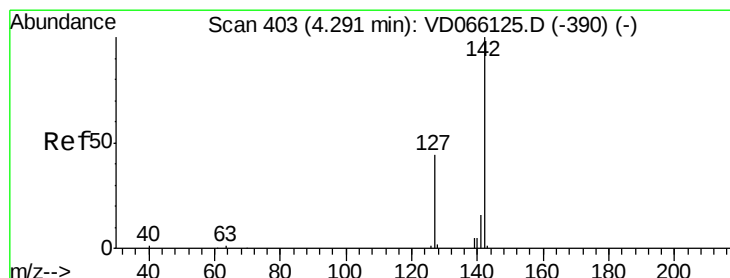
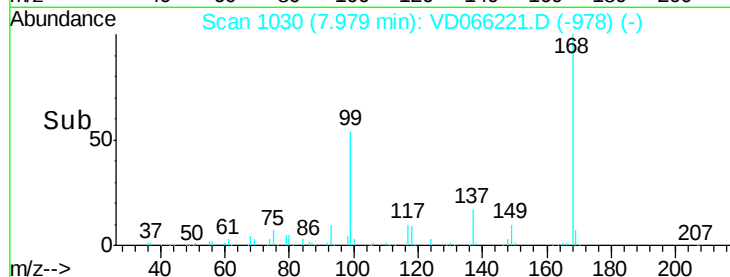
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 6.733 ug/l

RT: 4.29 min Scan# 403

Delta R.T. 0.00 min

Lab File: VD066221.D

Acq: 13 Aug 2020 20:14

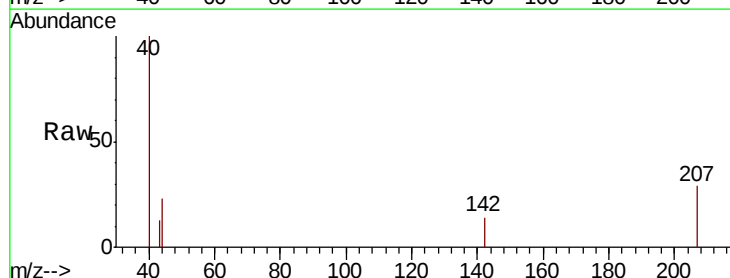
Tgt Ion:142 Resp: 66

Ion Ratio Lower Upper

142 100

127 0.0 36.2 54.4#

141 0.0 12.6 18.8#



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

4.29

250

200

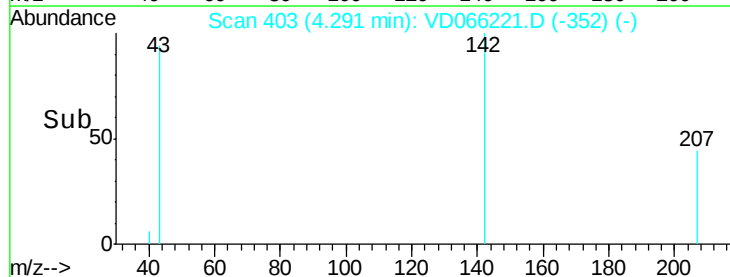
150

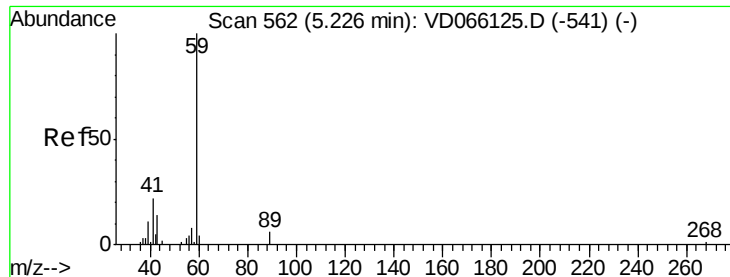
100

50

0

Time-->



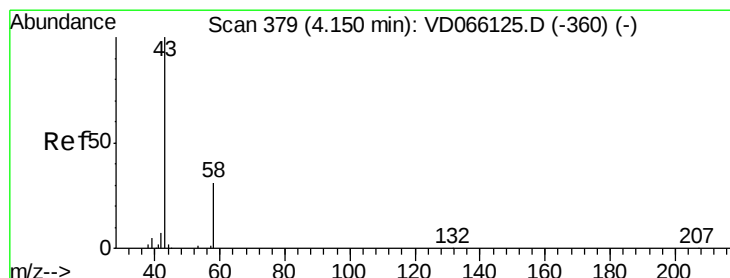
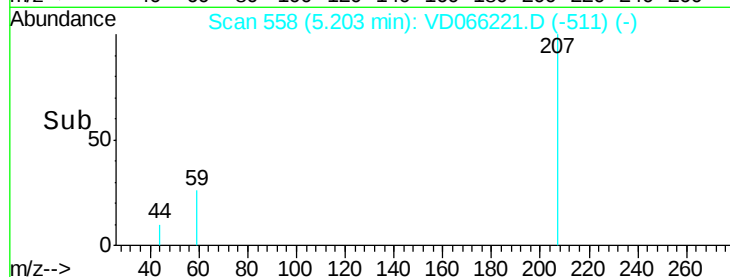
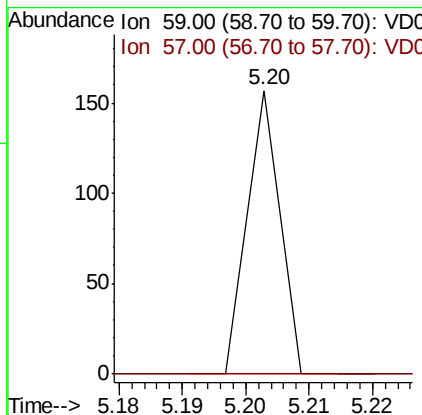
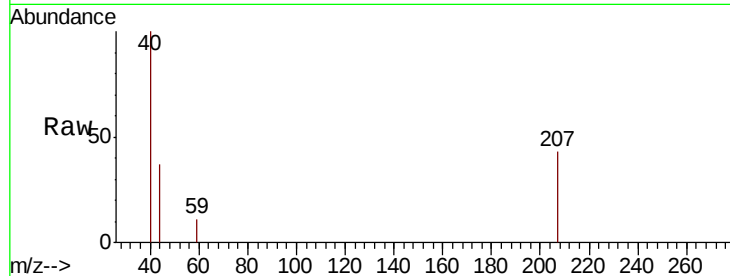


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.20 min Scan# 558  
 Delta R.T. -0.02 min  
 Lab File: VD066221.D  
 Acq: 13 Aug 2020 20:14

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 7211979

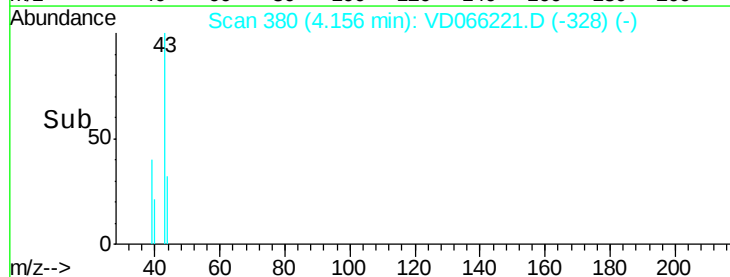
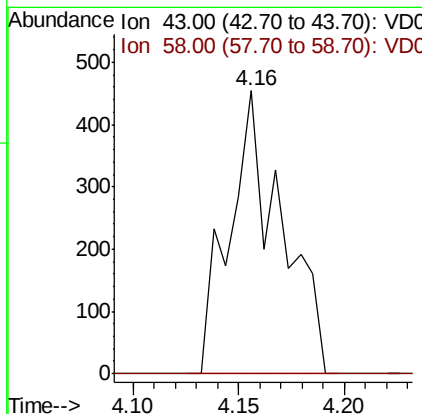
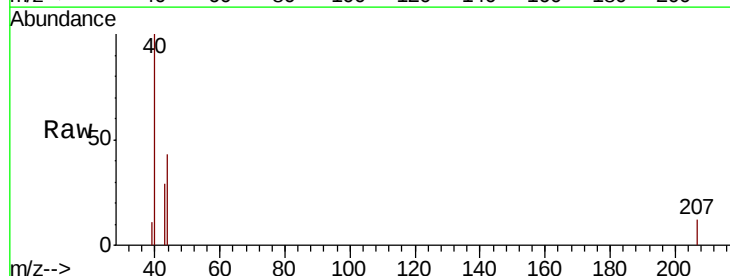
Tot Ion: 59 Resp: 55  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.0 10.4#

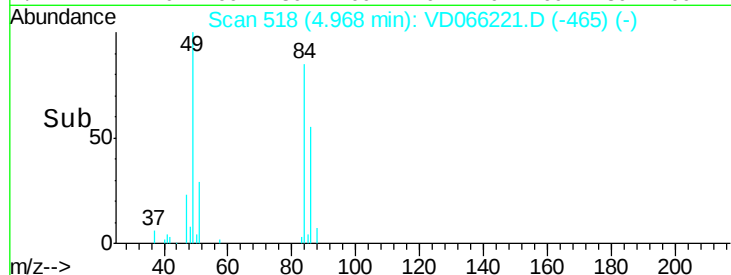
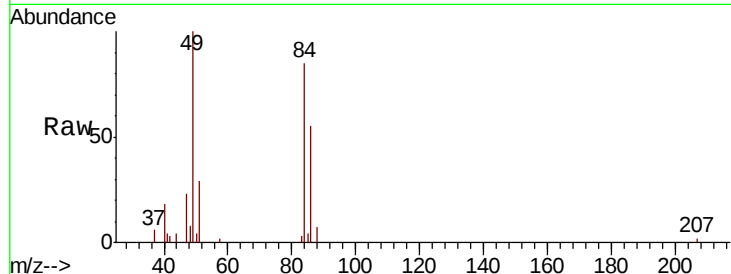
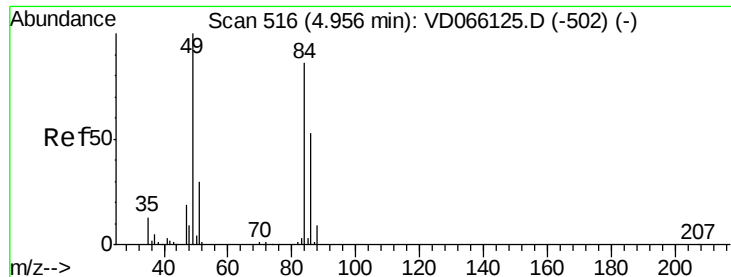


#16

Acetone  
 Concen: 1.484 ug/l  
 RT: 4.16 min Scan# 380  
 Delta R.T. 0.01 min  
 Lab File: VD066221.D  
 Acq: 13 Aug 2020 20:14

Tgt Ion: 43 Resp: 774  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 24.7 37.1#

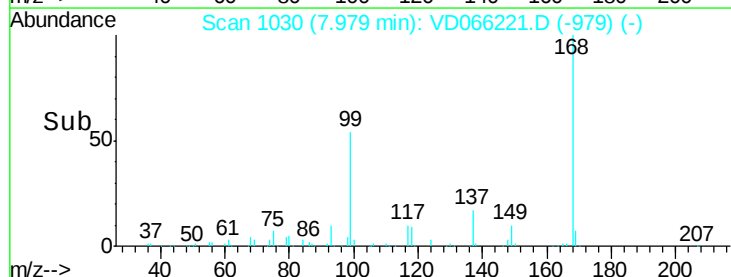
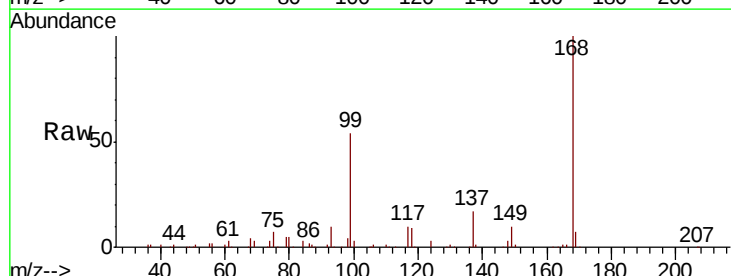
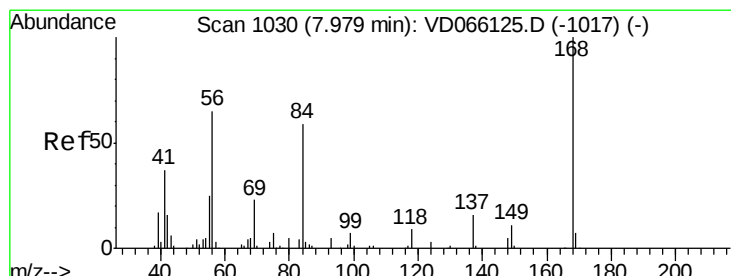
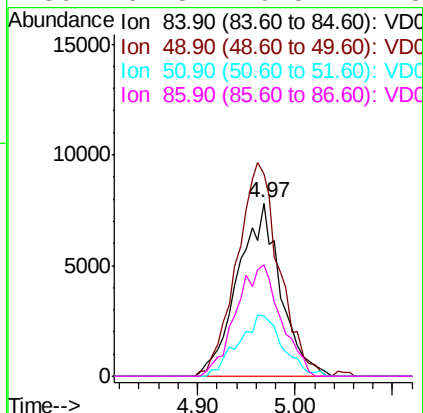




#20  
Methvlene Chloride  
Concen: 3.652 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. 0.01 min  
Lab File: VD066221.D  
Acq: 13 Aug 2020 20:14

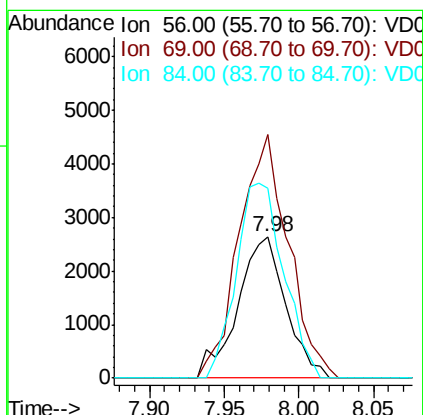
Instrument :  
MSVOA\_D  
ClientSampleId :  
7211979

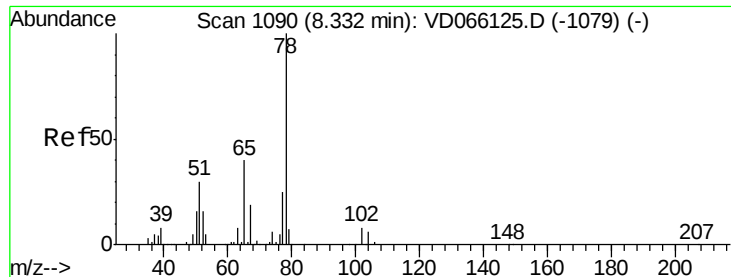
Tot Ion: 84 Resp: 23892  
Ion Ratio Lower Upper  
84 100  
49 117.1 93.5 140.3  
51 34.5 28.2 42.4  
86 64.3 49.5 74.3



#31  
Cyclohexane  
Concen: 1.222 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: VD066221.D  
Acq: 13 Aug 2020 20:14

Tgt Ion: 56 Resp: 5885  
Ion Ratio Lower Upper  
56 100  
69 172.0 28.8 43.2#  
84 134.2 73.0 109.6#





#33

1,2-Dichloroethane-d4

Concen: 48.109 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066221.D

Acq: 13 Aug 2020 20:14

Instrument :

MSVOA\_D

ClientSampleId :

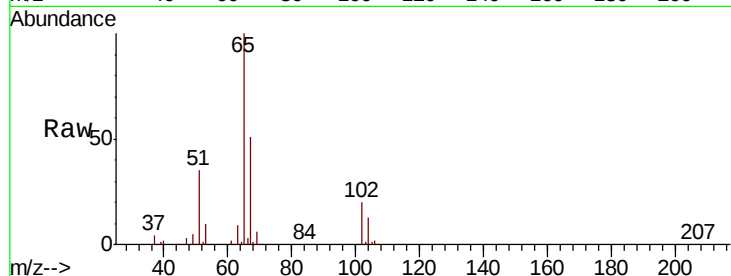
7211979

Tot Ion: 65 Resp: 132251

Ion Ratio Lower Upper

65 100

67 50.0 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

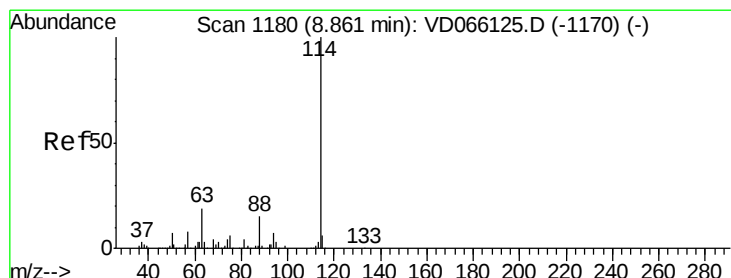
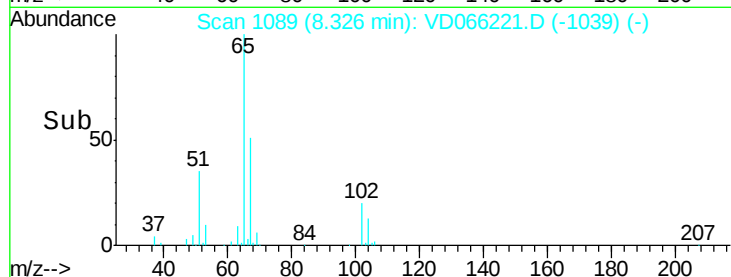
60000

40000

20000

0

Time--> 8.20 8.30 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066221.D

Acq: 13 Aug 2020 20:14

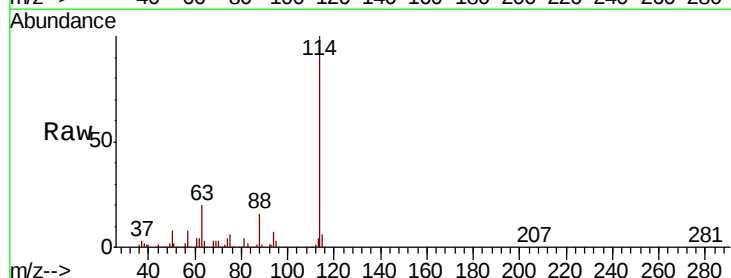
Tgt Ion: 114 Resp: 495195

Ion Ratio Lower Upper

114 100

63 20.3 0.0 38.6

88 15.7 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.86

300000

250000

200000

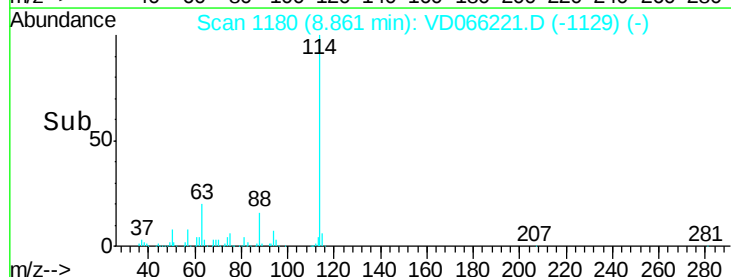
150000

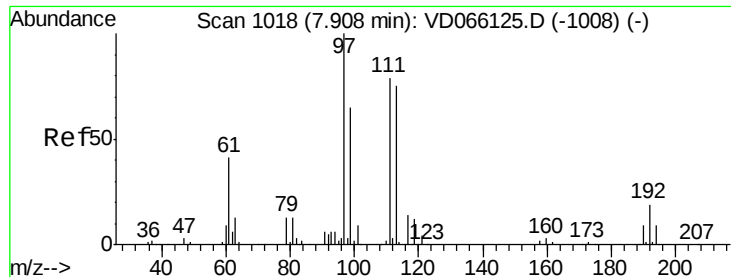
100000

50000

0

Time--> 8.80 8.90 9.00

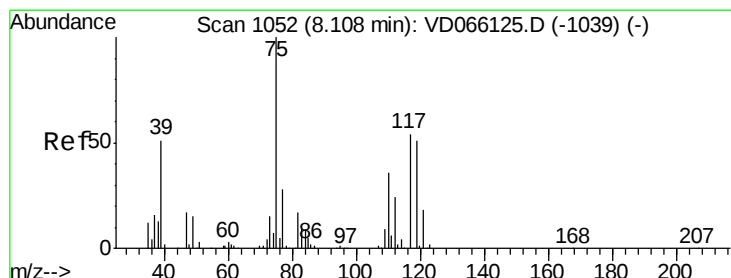
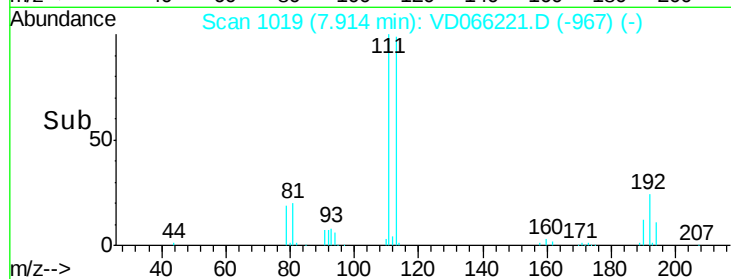
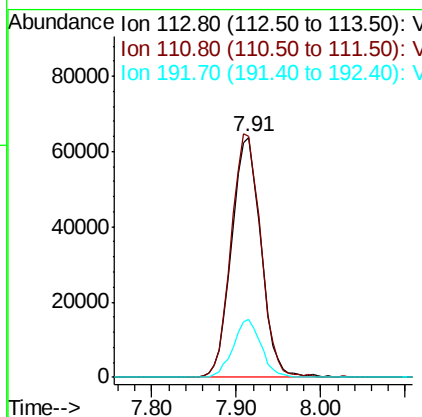
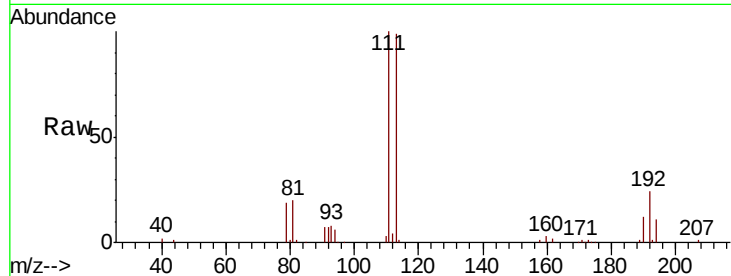




#35  
 Dibromofluoromethane  
 Concen: 48.740 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.01 min  
 Lab File: VD066221.D  
 Acq: 13 Aug 2020 20:14

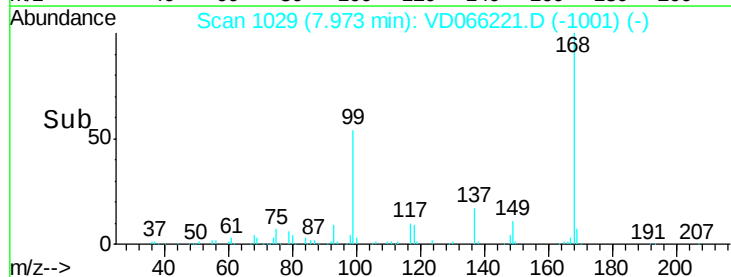
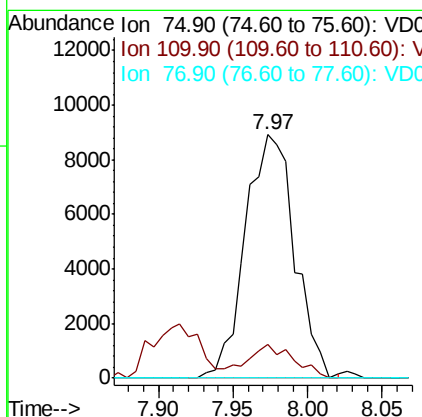
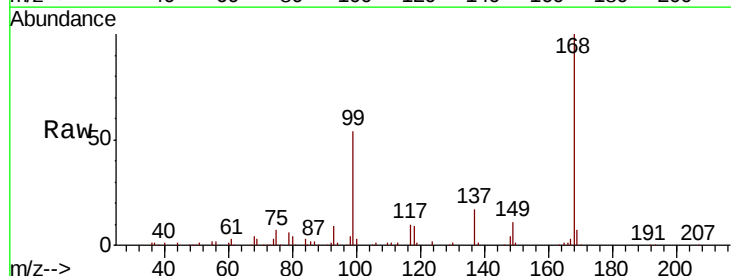
Instrument :  
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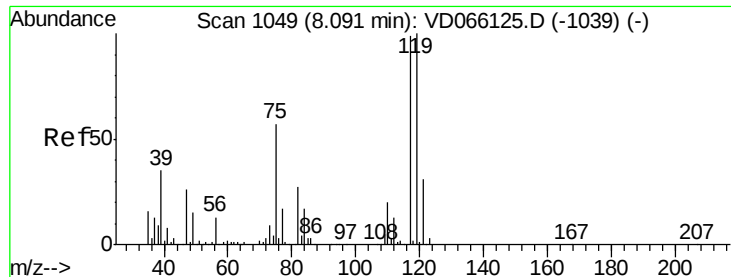
Tot Ion:113 Resp: 152897  
 Ion Ratio Lower Upper  
 113 100  
 111 102.1 80.7 121.1  
 192 22.8 18.4 27.6



#36  
 1,1-Dichloropropene  
 Concen: 4.397 ug/l  
 RT: 7.97 min Scan# 1029  
 Delta R.T. -0.14 min  
 Lab File: VD066221.D  
 Acq: 13 Aug 2020 20:14

Tgt Ion: 75 Resp: 20460  
 Ion Ratio Lower Upper  
 75 100  
 110 12.8 18.8 56.3#  
 77 0.0 24.2 36.2#

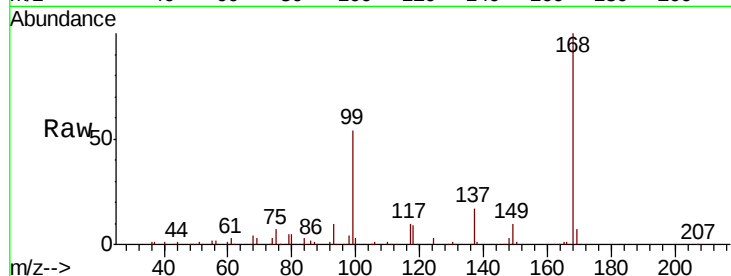




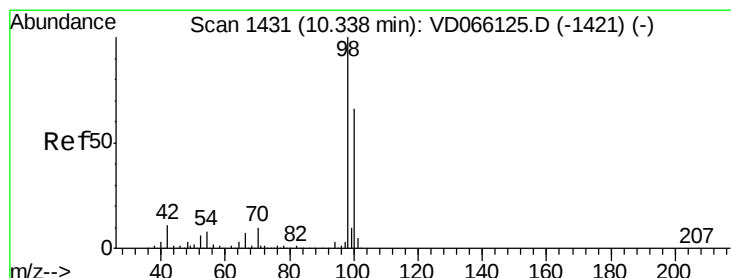
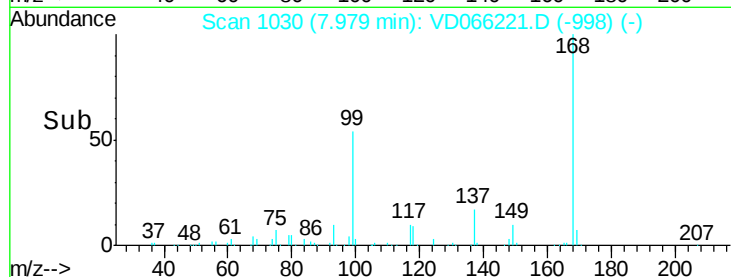
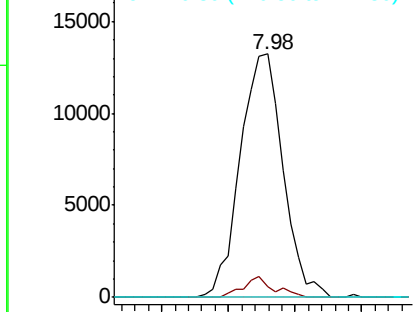
#38  
Carbon Tetrachloride  
Concen: 5.653 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.11 min  
Lab File: VD066221.D  
Acq: 13 Aug 2020 20:14

Instrument :  
MSVOA\_D  
ClientSampleId :  
7211979

Tot Ion:117 Resp: 29337  
Ion Ratio Lower Upper  
117 100  
119 4.6 81.0 121.4#  
121 0.0 24.8 37.2#

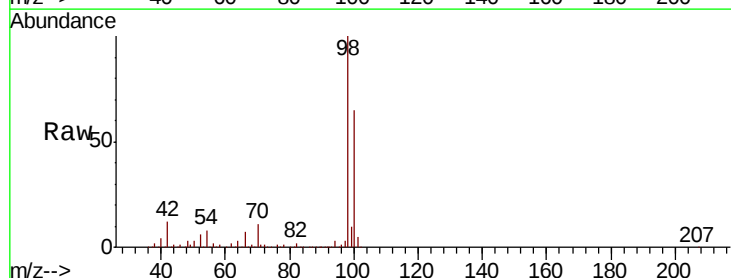


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

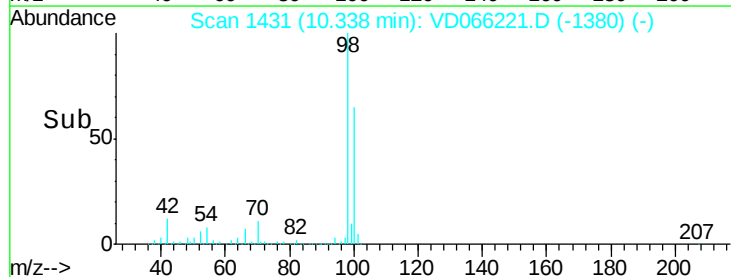
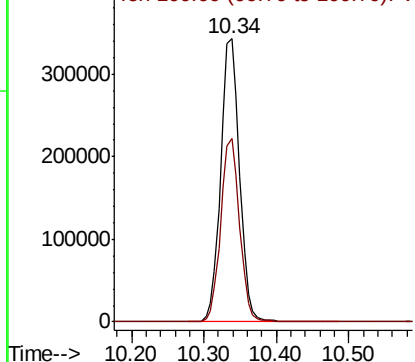


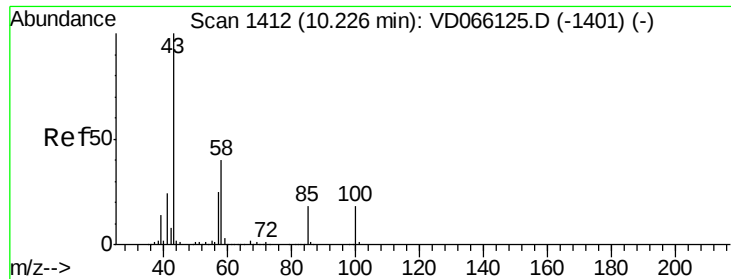
#50  
Toluene-d8  
Concen: 53.592 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD066221.D  
Acq: 13 Aug 2020 20:14

Tgt Ion: 98 Resp: 620398  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VD





#51

4-Methyl-2-Pentanone

Concen: 1.516 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD066221.D

Acq: 13 Aug 2020 20:14

Instrument :

MSVOA\_D

ClientSampleId :

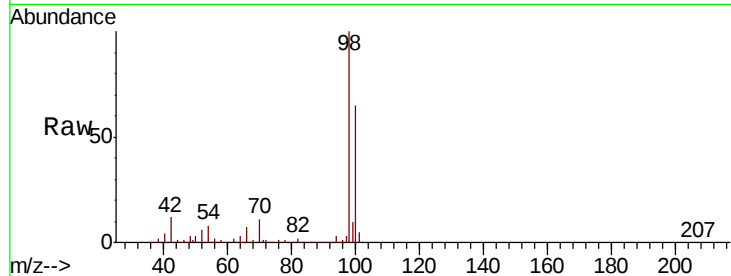
7211979

Tot Ion: 43 Resp: 2828

Ion Ratio Lower Upper

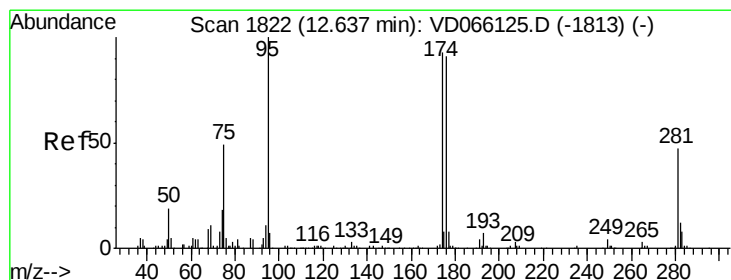
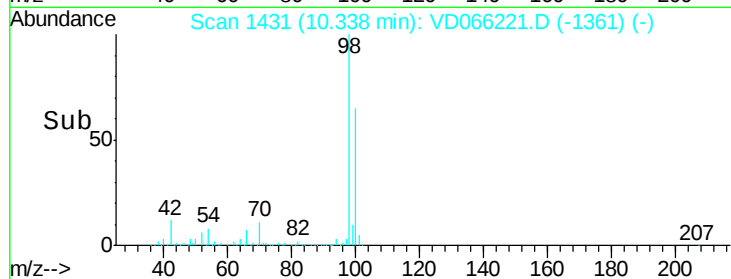
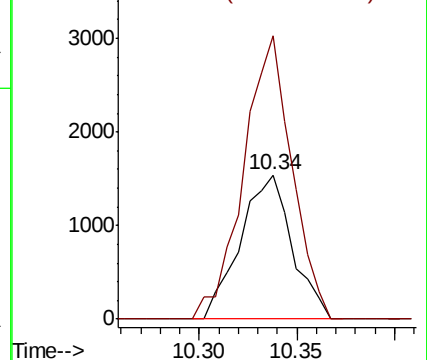
43 100

58 183.8 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 70.972 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD066221.D

Acq: 13 Aug 2020 20:14

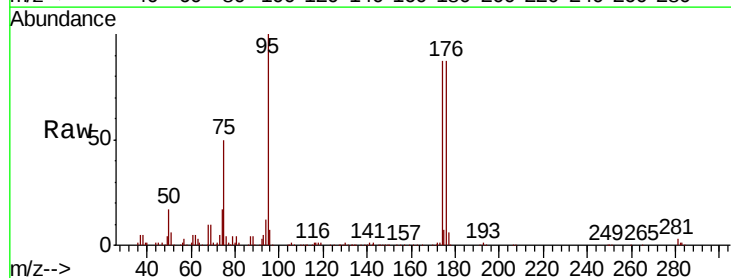
Tgt Ion: 95 Resp: 296154

Ion Ratio Lower Upper

95 100

174 90.6 0.0 180.8

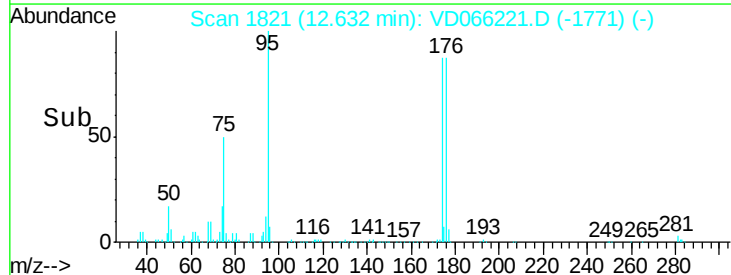
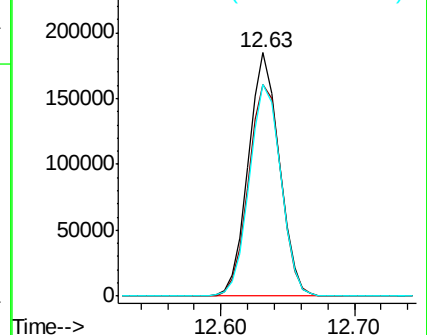
176 88.3 0.0 181.2

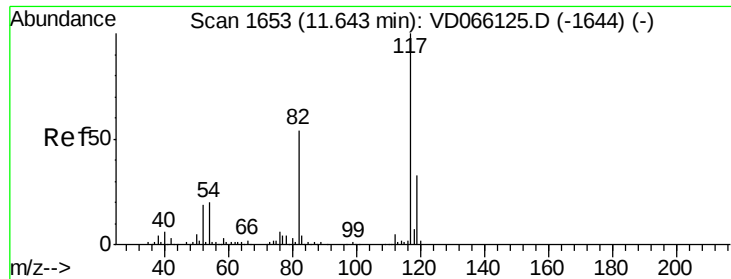


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

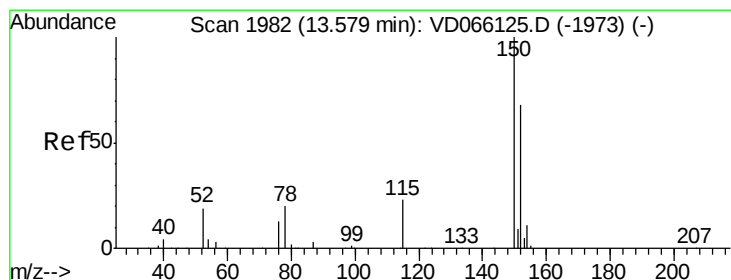
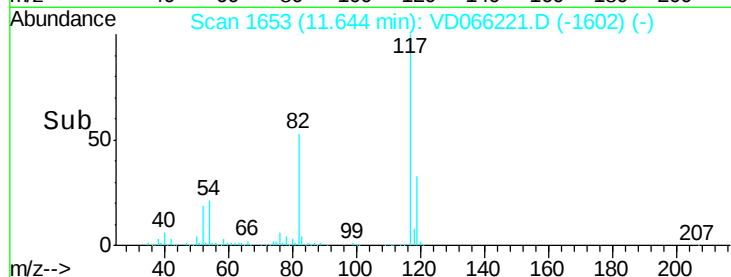
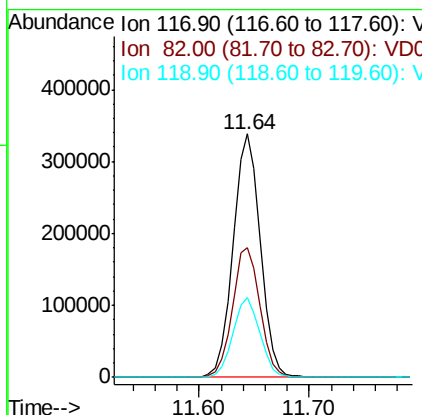
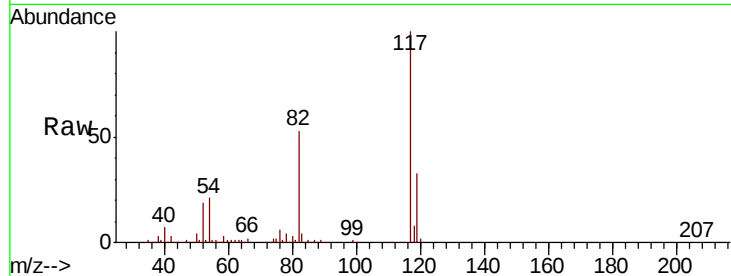




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066221.D  
Acq: 13 Aug 2020 20:14

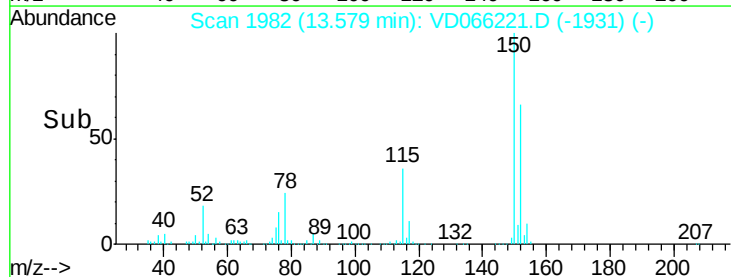
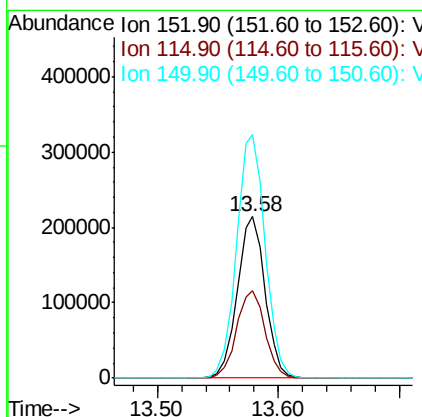
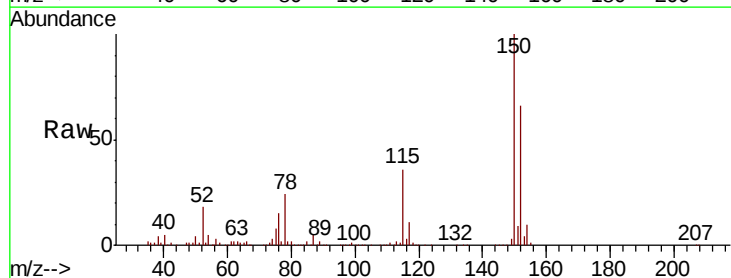
Instrument :  
MSVOA\_D  
ClientSampleId :  
7211979

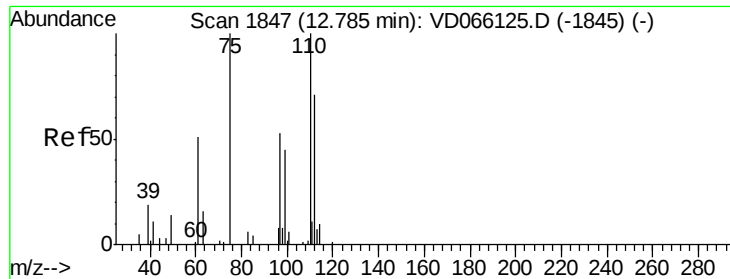
Tot Ion:117 Resp: 585274  
Ion Ratio Lower Upper  
117 100  
82 53.3 43.0 64.4  
119 32.8 26.1 39.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD066221.D  
Acq: 13 Aug 2020 20:14

Tgt Ion:152 Resp: 343506  
Ion Ratio Lower Upper  
152 100  
115 55.5 28.0 83.9  
150 155.3 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 53.215 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066221.D

Acq: 13 Aug 2020 20:14

Instrument :

MSVOA\_D

ClientSampled :

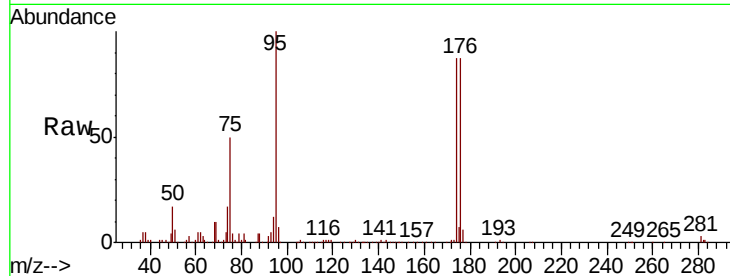
7211979

Tot Ion: 75 Resp: 152439

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.63

100000

80000

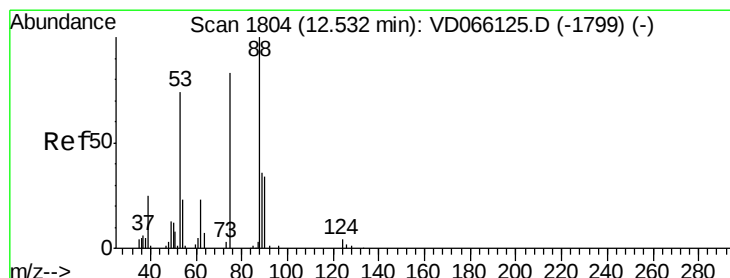
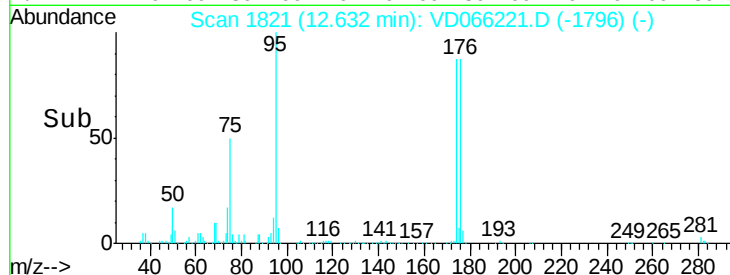
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 117.635 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066221.D

Acq: 13 Aug 2020 20:14

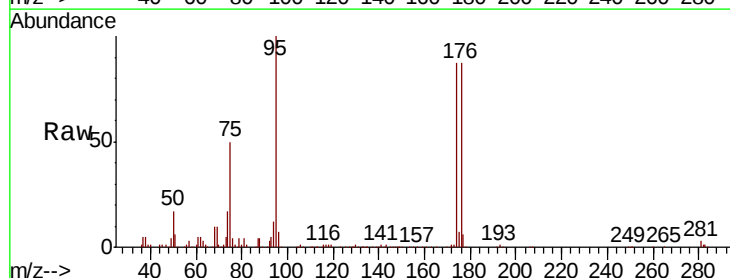
Tgt Ion: 75 Resp: 152439

Ion Ratio Lower Upper

75 100

53 0.0 73.4 110.2#

89 0.1 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

12.63

120000

100000

80000

60000

40000

20000

0

Time-->

