

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091720\  
 Data File : VD066751.D  
 Acq On : 17 Sep 2020 18:18  
 Operator : VA/SY  
 Sample : L4051-02  
 Misc : 6.10G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 KTS-SB-01-1-2

Quant Time: Sep 18 01:16:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 15 16:35:37 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 338966   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 594508   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 503160   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 146482   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 214407   | 59.28 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 118.56% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 208960   | 57.33 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 114.66% |      |
| 50) Toluene-d8            | 10.34  | 98  | 717313   | 55.24 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.48% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 184062   | 41.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 82.12%  |      |

## Target Compounds

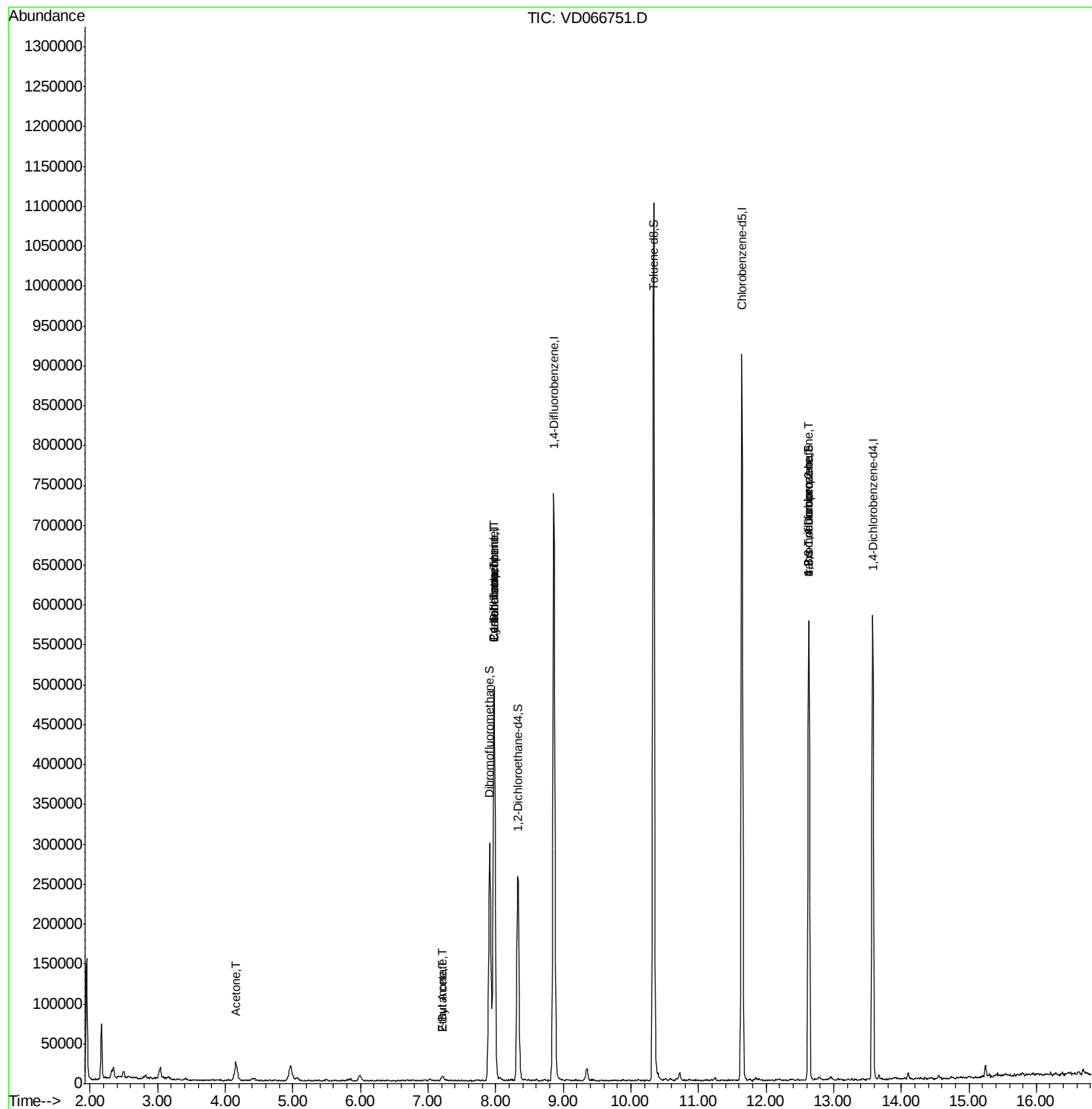
|                                |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85  | 57     | Below Cal | #      | 43     |
| 11) Tert butyl alcohol         | 5.23  | 59  | 175    | Below Cal | #      | 76     |
| 16) Acetone                    | 4.16  | 43  | 38991  | 52.943    | ug/l   | 94     |
| 18) Methyl Acetate             | 4.71  | 43  | 103    | Below Cal | #      | 52     |
| 20) Methylene Chloride         | 4.97  | 84  | 12907  | Below Cal | #      | 82     |
| 25) 2-Butanone                 | 7.21  | 43  | 9088   | 9.477     | ug/l # | 87     |
| 31) Cyclohexane                | 7.98  | 56  | 10694  | 1.674     | ug/l # | 45     |
| 36) 1,1-Dichloropropene        | 7.98  | 75  | 31492  | 5.152     | ug/l # | 47     |
| 37) Ethyl Acetate              | 7.21  | 43  | 9088   | 3.927     | ug/l # | 70     |
| 38) Carbon Tetrachloride       | 7.98  | 117 | 38867  | 5.988     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75  | 101474 | 80.931    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75  | 101474 | 174.664   | ug/l # | 8      |

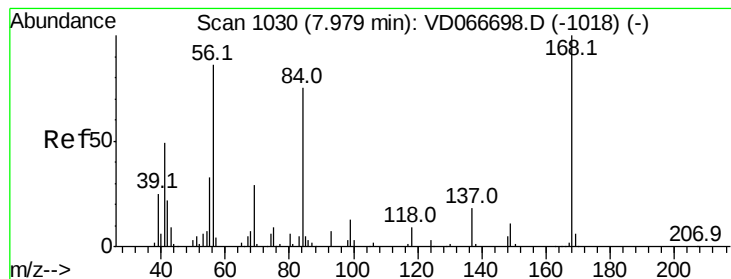
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD091720\  
Data File : VD066751.D  
Acq On : 17 Sep 2020 18:18  
Operator : VA/SY  
Sample : L4051-02  
Misc : 6.10G/5.00ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
KTS-SB-01-1-2

Quant Time: Sep 18 01:16:50 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 15 16:35:37 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066751.D

Acq: 17 Sep 2020 18:18

Instrument :

MSVOA\_D

ClientSampleId :

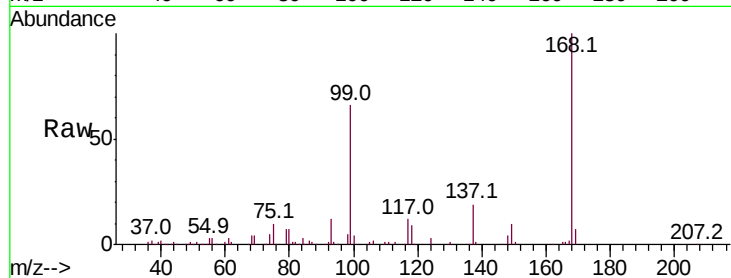
KTS-SB-01-1-2

Tot Ion:168 Resp: 338966

Ion Ratio Lower Upper

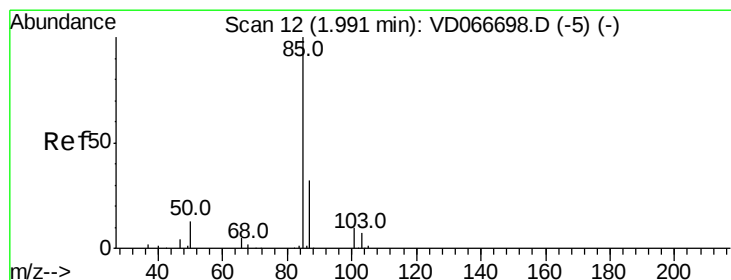
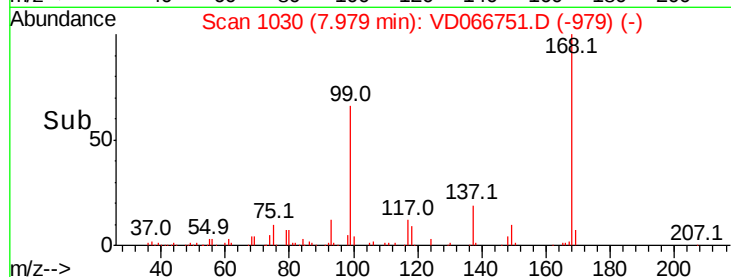
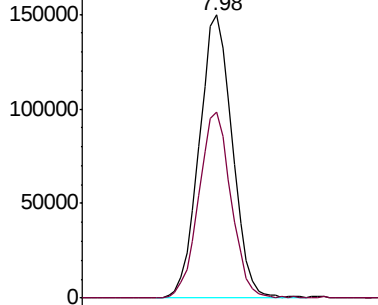
168 100

99 65.8 54.4 81.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD066751.D

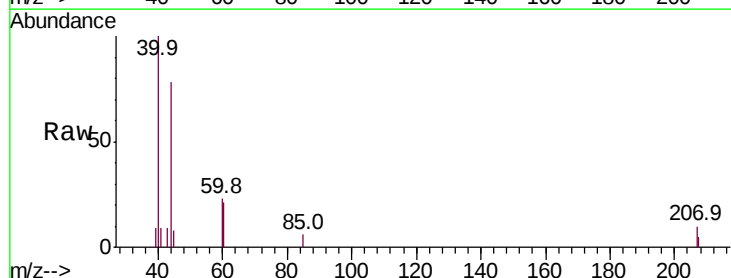
Acq: 17 Sep 2020 18:18

Tgt Ion: 85 Resp: 57

Ion Ratio Lower Upper

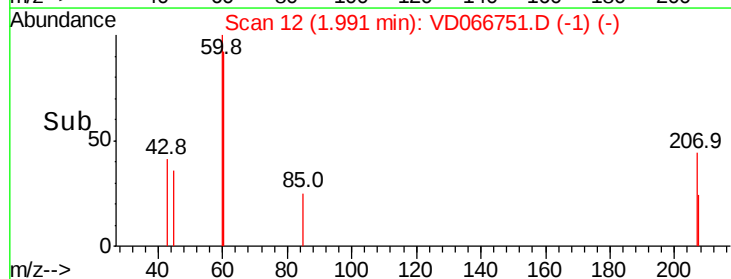
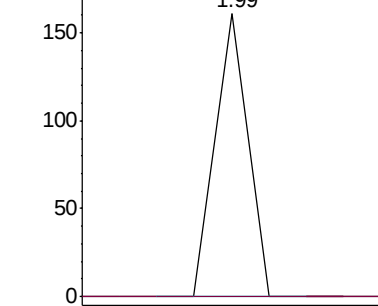
85 100

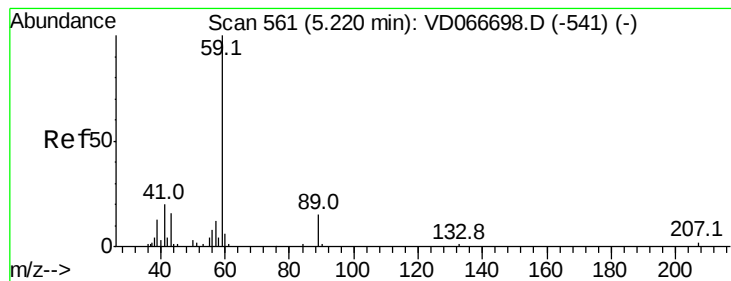
87 0.0 15.9 47.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC



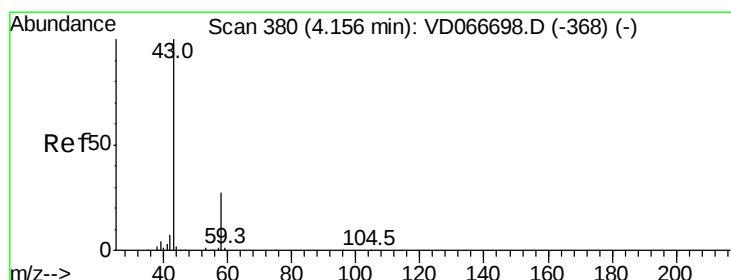
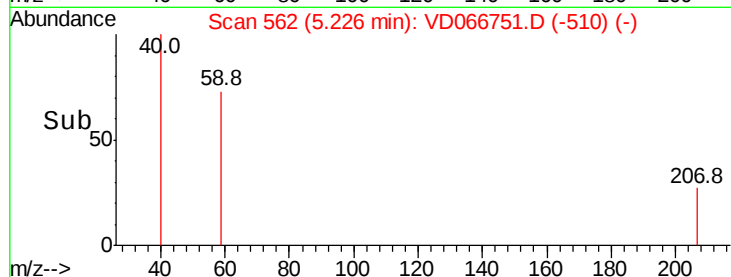
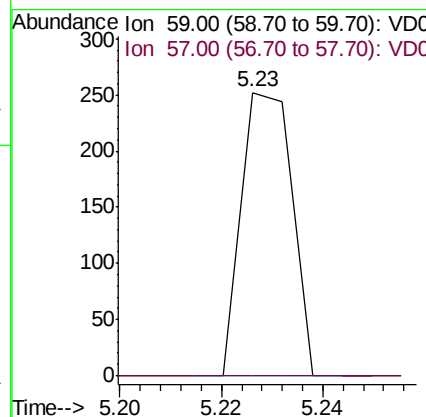
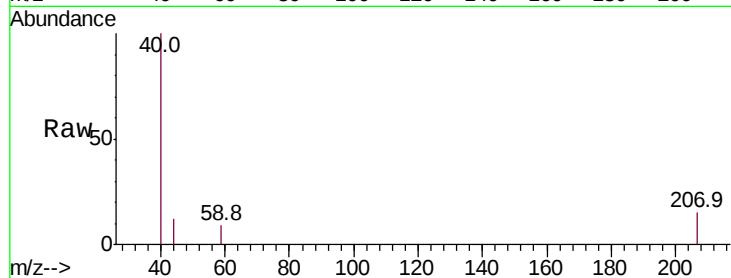


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.23 min Scan# 562  
 Delta R.T. 0.01 min  
 Lab File: VD066751.D  
 Acq: 17 Sep 2020 18:18

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 KTS-SB-01-1-2

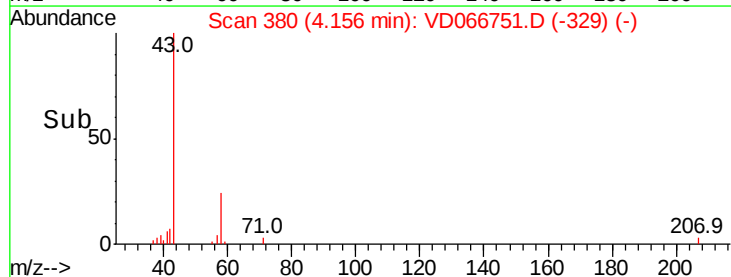
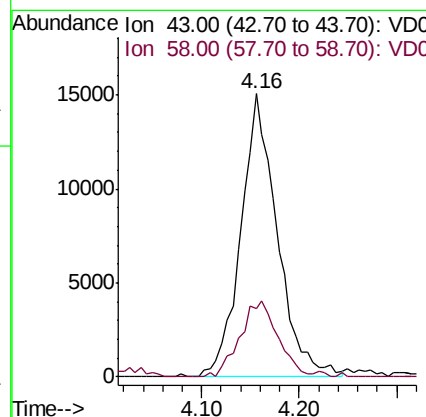
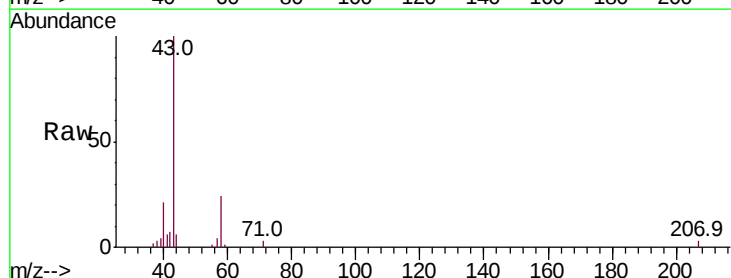
Tot Ion: 59 Resp: 175  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 6.7 10.1#

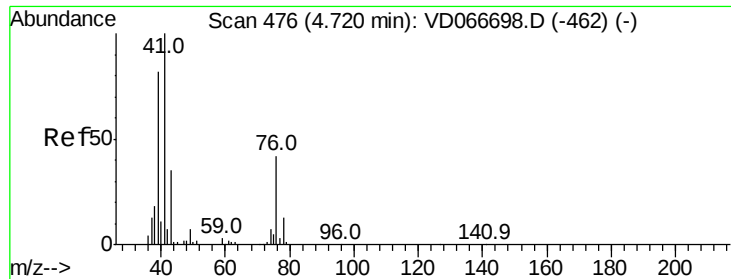


#16

Acetone  
 Concen: 52.943 ug/l  
 RT: 4.16 min Scan# 380  
 Delta R.T. -0.00 min  
 Lab File: VD066751.D  
 Acq: 17 Sep 2020 18:18

Tgt Ion: 43 Resp: 38991  
 Ion Ratio Lower Upper  
 43 100  
 58 24.4 21.9 32.9

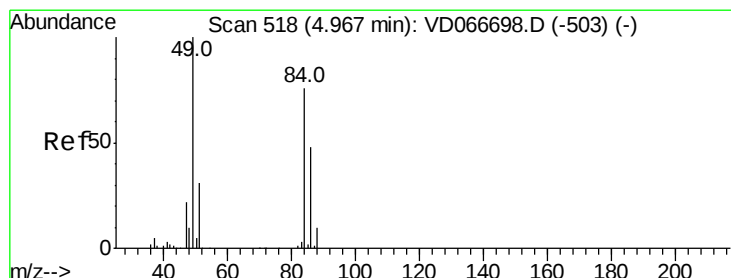
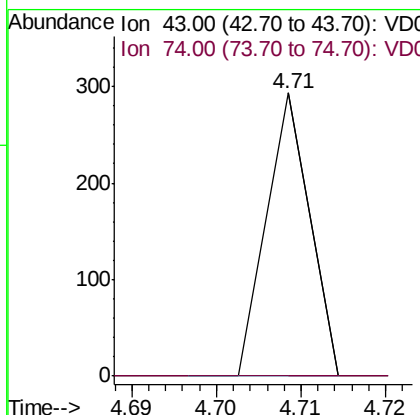
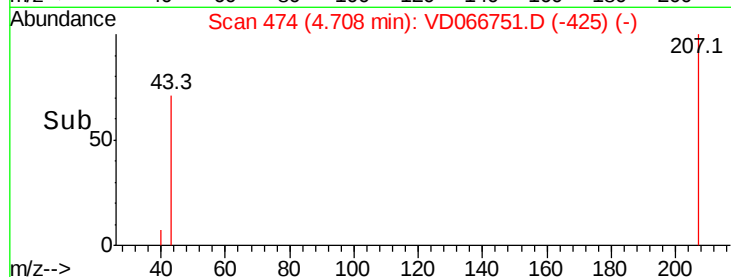
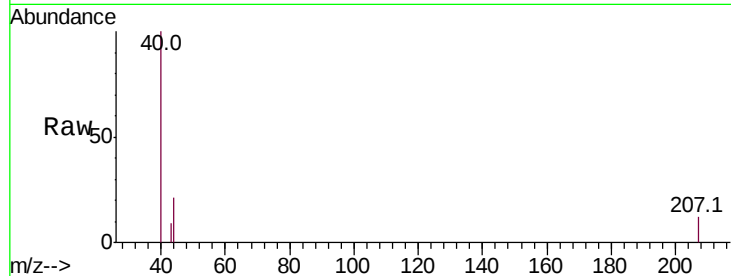




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.71 min Scan# 474  
Delta R.T. -0.01 min  
Lab File: VD066751.D  
Acq: 17 Sep 2020 18:18

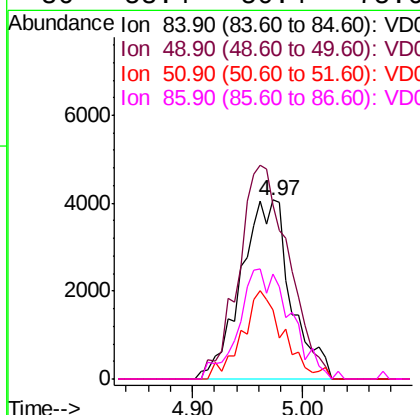
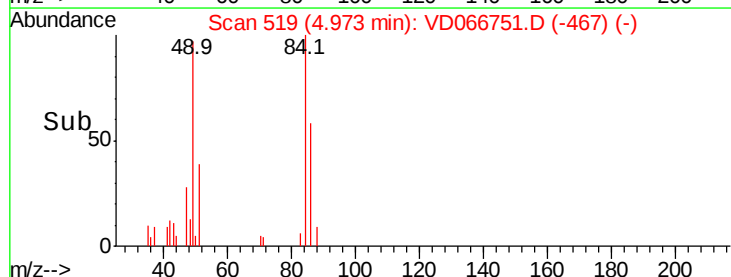
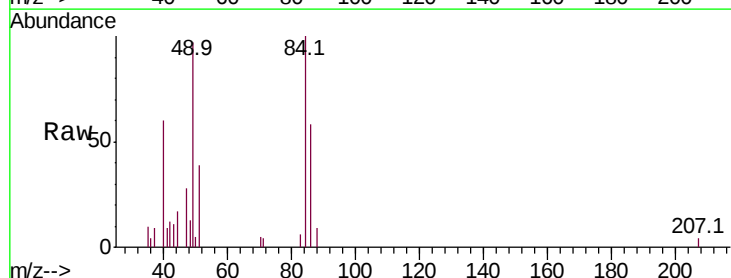
Instrument :  
MSVOA\_D  
ClientSampleId :  
KTS-SB-01-1-2

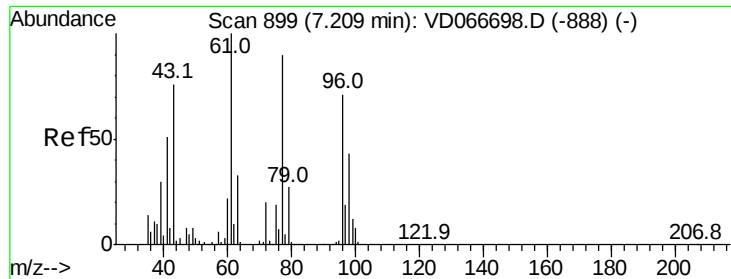
Tot Ion: 43 Resp: 103  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.6 28.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.97 min Scan# 519  
Delta R.T. 0.01 min  
Lab File: VD066751.D  
Acq: 17 Sep 2020 18:18

Tgt Ion: 84 Resp: 12907  
Ion Ratio Lower Upper  
84 100  
49 97.1 105.0 157.6#  
51 38.7 32.2 48.4  
86 58.4 50.4 75.6

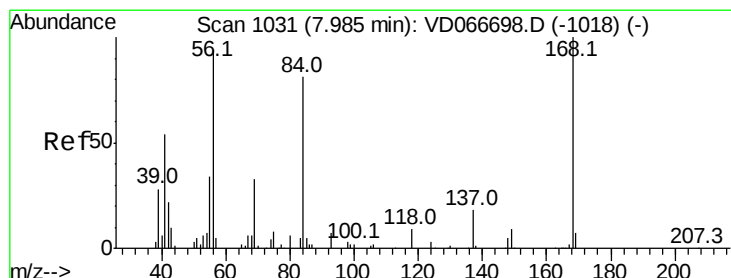
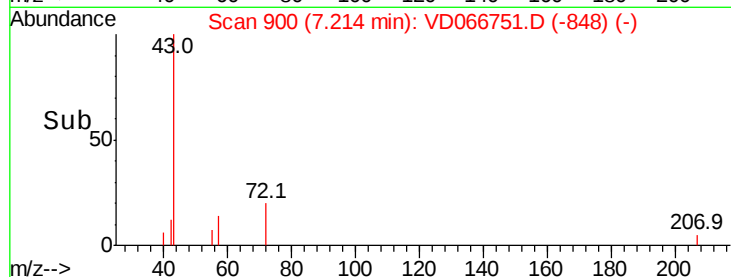
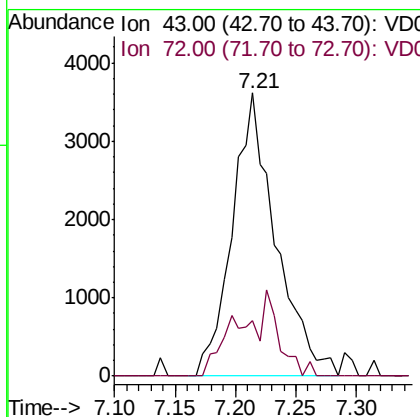
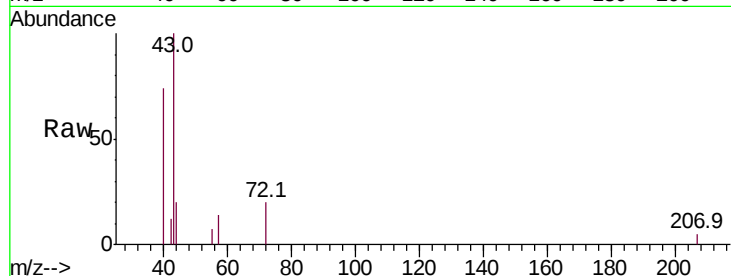




#25  
2-Butanone  
Concen: 9.477 ug/l  
RT: 7.21 min Scan# 900  
Delta R.T. 0.01 min  
Lab File: VD066751.D  
Acq: 17 Sep 2020 18:18

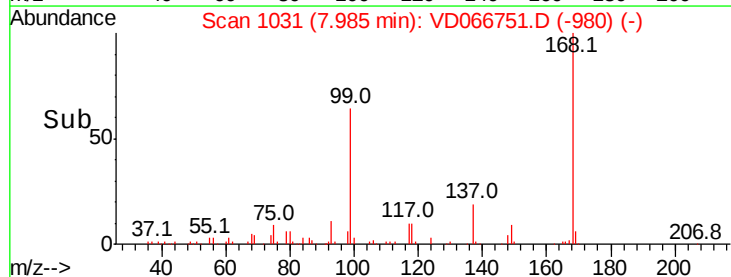
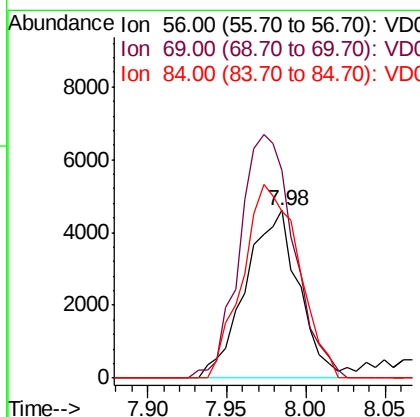
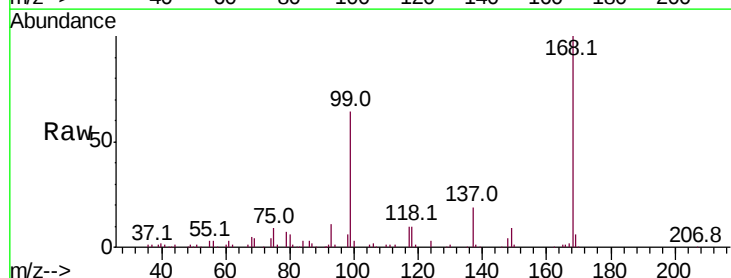
Instrument :  
MSVOA\_D  
ClientSampleId :  
KTS-SB-01-1-2

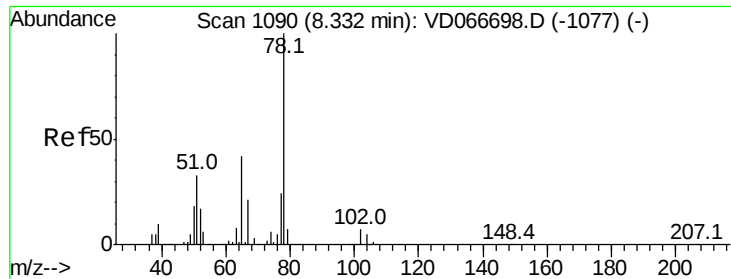
Tot Ion: 43 Resp: 9088  
Ion Ratio Lower Upper  
43 100  
72 19.6 21.0 31.4#



#31  
Cyclohexane  
Concen: 1.674 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: VD066751.D  
Acq: 17 Sep 2020 18:18

Tgt Ion: 56 Resp: 10694  
Ion Ratio Lower Upper  
56 100  
69 123.5 27.7 41.5#  
84 99.8 68.5 102.7





#33

1,2-Dichloroethane-d4

Concen: 59.285 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066751.D

Acq: 17 Sep 2020 18:18

Instrument :

MSVOA\_D

ClientSampleId :

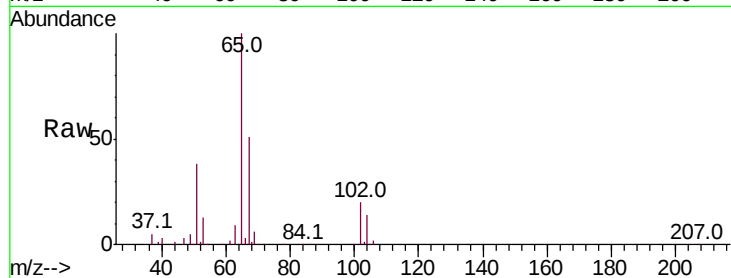
KTS-SB-01-1-2

Tot Ion: 65 Resp: 214407

Ion Ratio Lower Upper

65 100

67 52.3 0.0 102.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

100000

80000

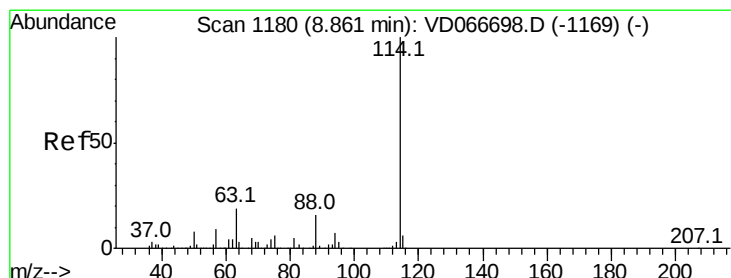
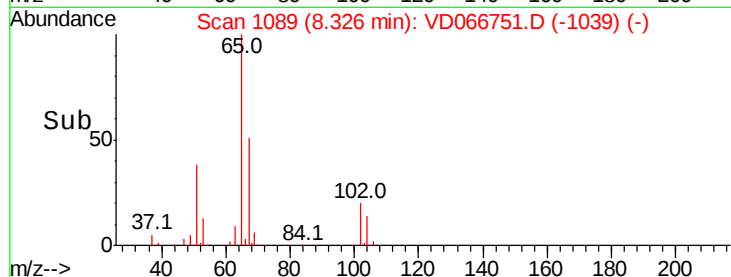
60000

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: VD066751.D

Acq: 17 Sep 2020 18:18

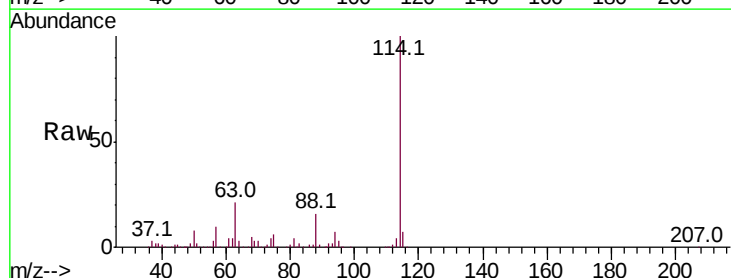
Tgt Ion: 114 Resp: 594508

Ion Ratio Lower Upper

114 100

63 20.8 0.0 37.6

88 15.8 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.86

400000

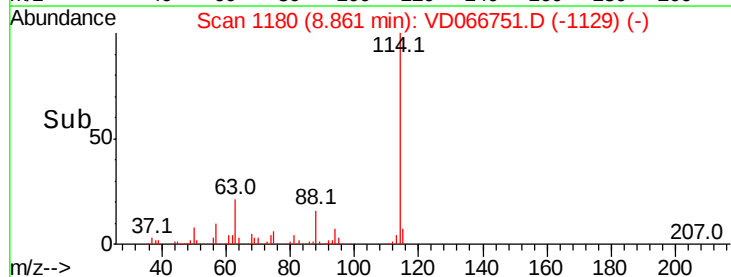
300000

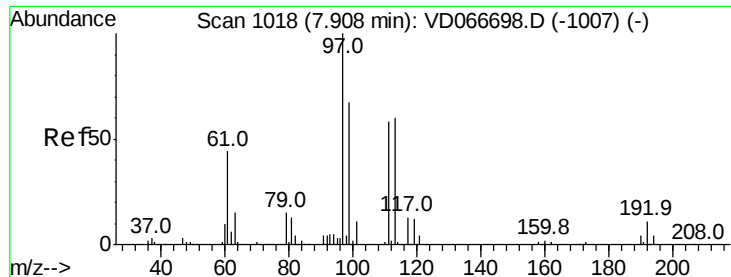
200000

100000

0

Time--> 8.80 8.90 9.00

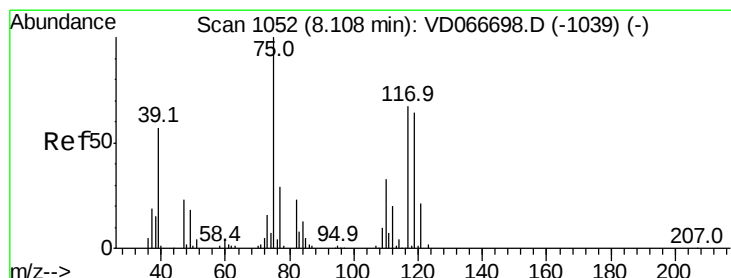
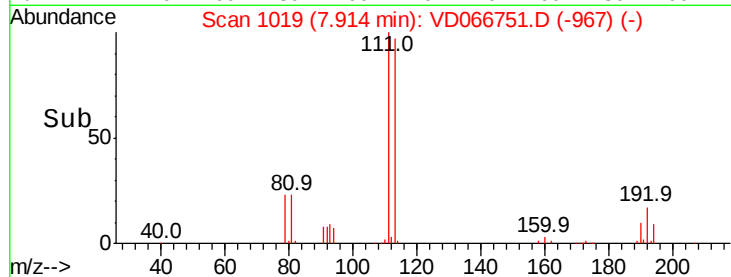
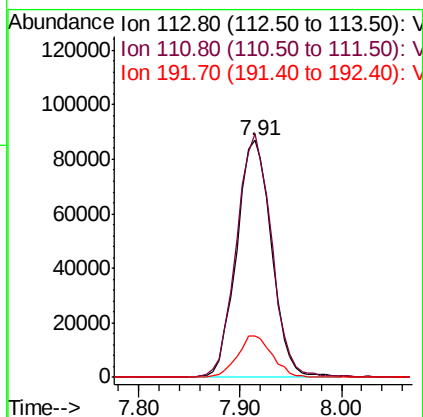
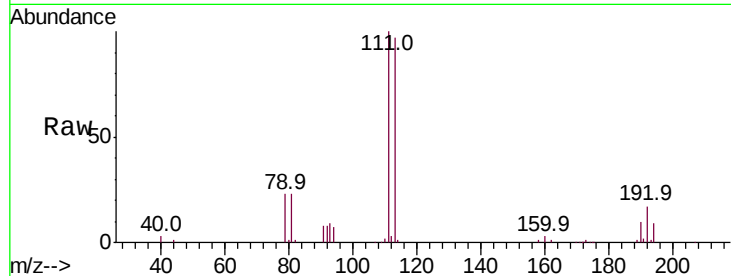




#35  
 Dibromofluoromethane  
 Concen: 57.329 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.01 min  
 Lab File: VD066751.D  
 Acq: 17 Sep 2020 18:18

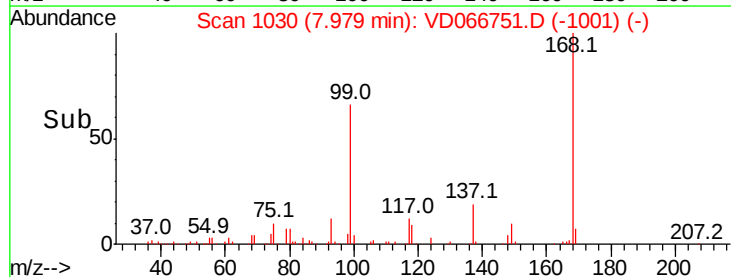
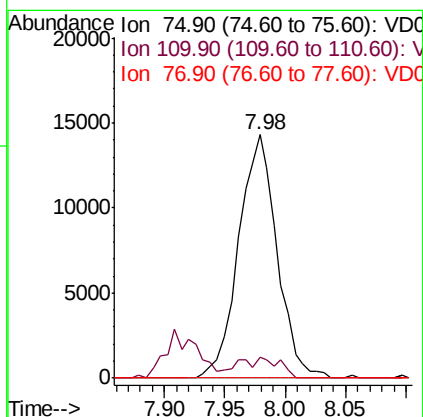
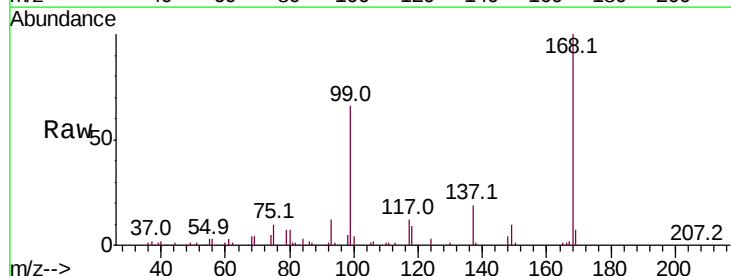
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 KTS-SB-01-1-2

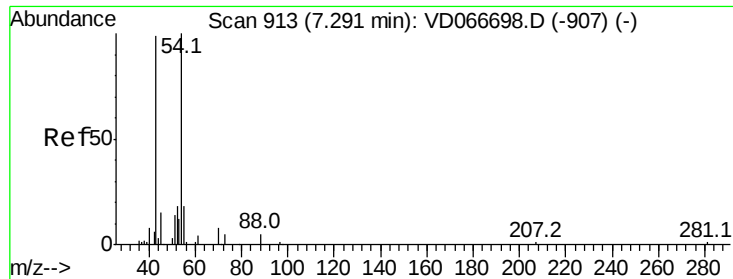
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.3 | 83.2  | 124.8 |
| 192     | 17.5  | 14.8  | 22.2  |



#36  
 1,1-Dichloropropene  
 Concen: 5.152 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.13 min  
 Lab File: VD066751.D  
 Acq: 17 Sep 2020 18:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 5.2   | 17.1  | 51.2# |
| 77      | 0.0   | 25.0  | 37.6# |

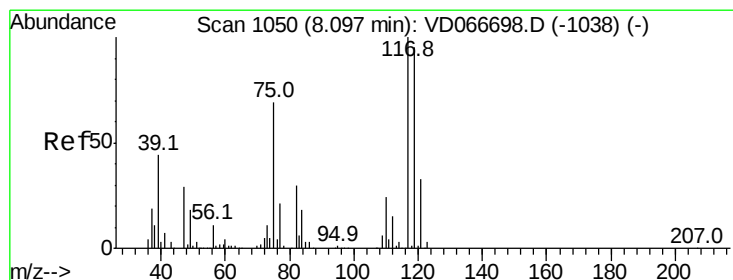
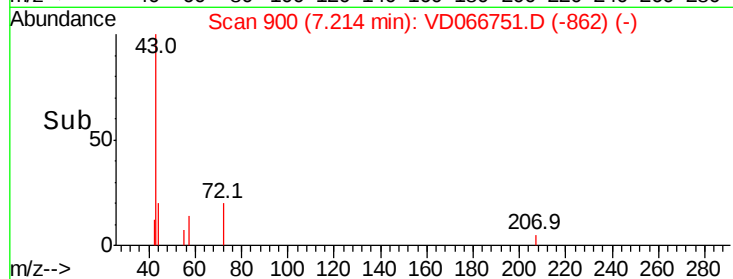
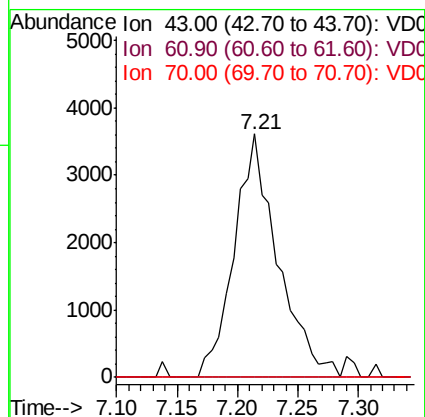
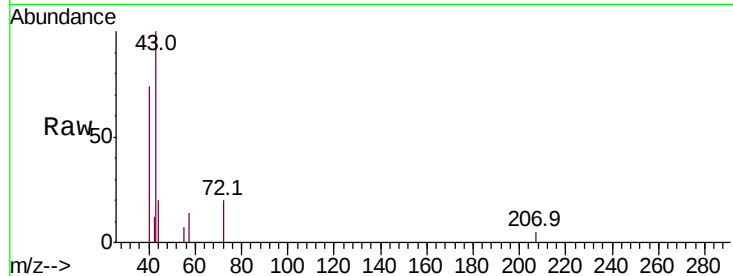




#37  
Ethyl Acetate  
Concen: 3.927 ug/l  
RT: 7.21 min Scan# 900  
Delta R.T. -0.08 min  
Lab File: VD066751.D  
Acq: 17 Sep 2020 18:18

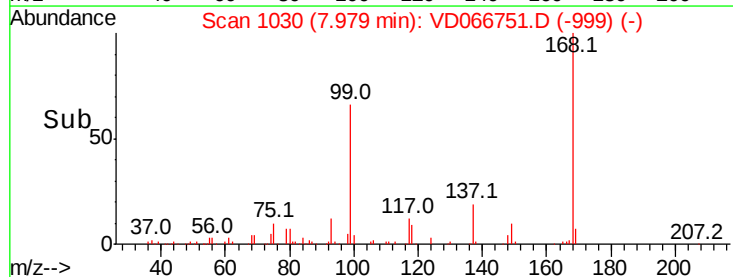
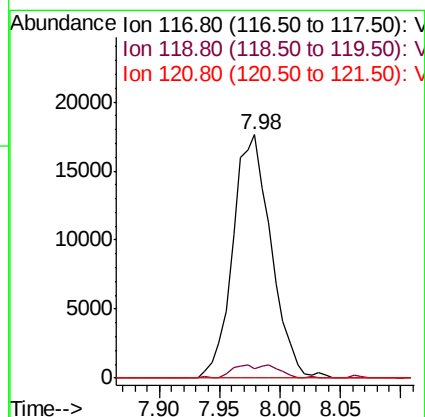
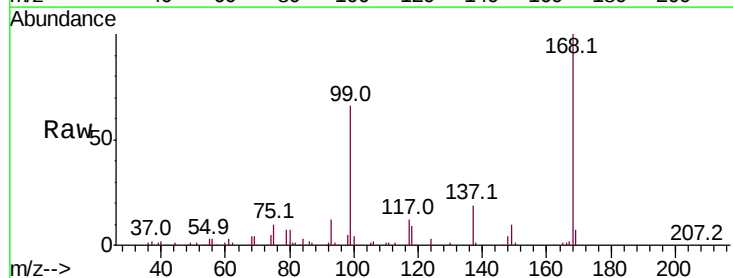
Instrument :  
MSVOA\_D  
ClientSampleId :  
KTS-SB-01-1-2

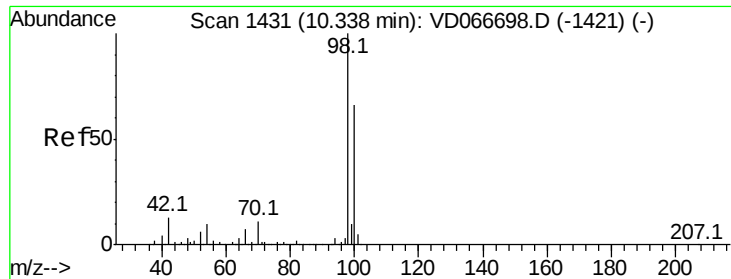
Tot Ion: 43 Resp: 9088  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.4 15.6#  
70 0.0 7.5 11.3#



#38  
Carbon Tetrachloride  
Concen: 5.988 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.12 min  
Lab File: VD066751.D  
Acq: 17 Sep 2020 18:18

Tgt Ion: 117 Resp: 38867  
Ion Ratio Lower Upper  
117 100  
119 3.9 75.8 113.6#  
121 0.0 26.2 39.4#





#50

Toluene-d8

Concen: 55.238 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066751.D

Acq: 17 Sep 2020 18:18

Instrument :

MSVOA\_D

ClientSampleId :

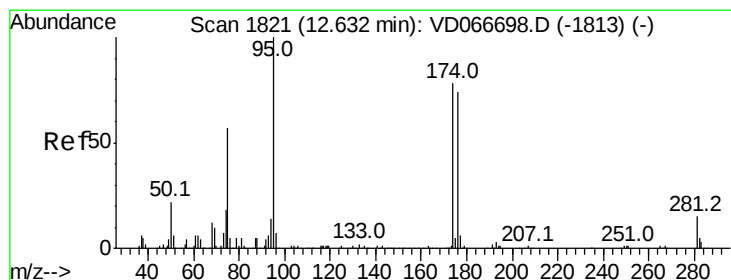
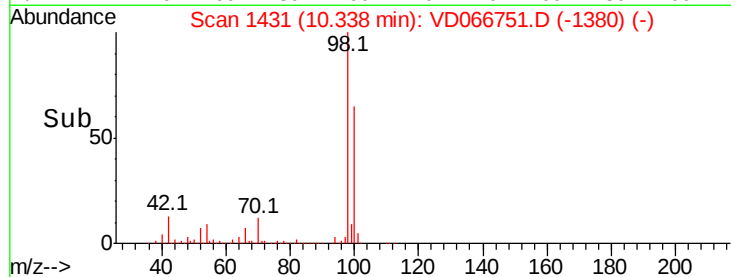
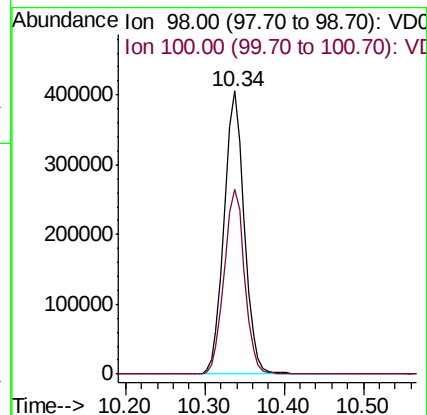
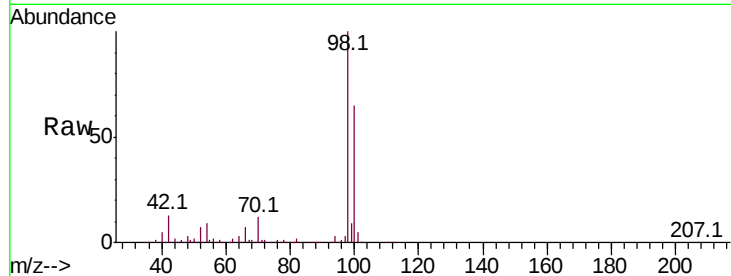
KTS-SB-01-1-2

Tot Ion: 98 Resp: 717313

Ion Ratio Lower Upper

98 100

100 65.9 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 41.062 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066751.D

Acq: 17 Sep 2020 18:18

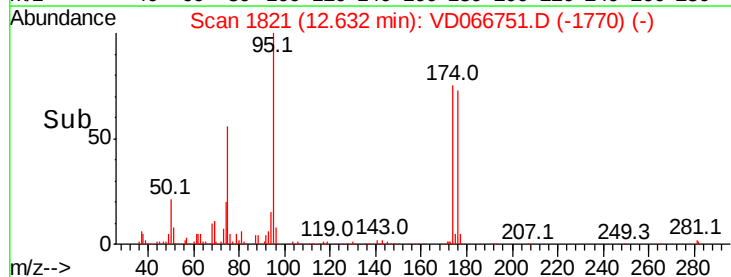
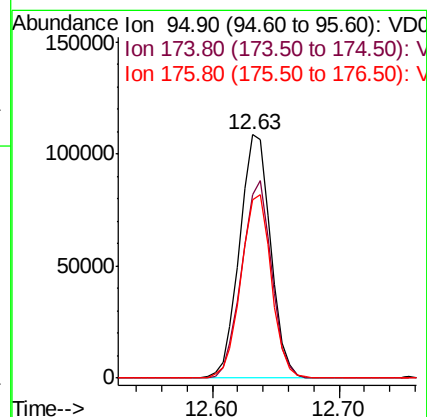
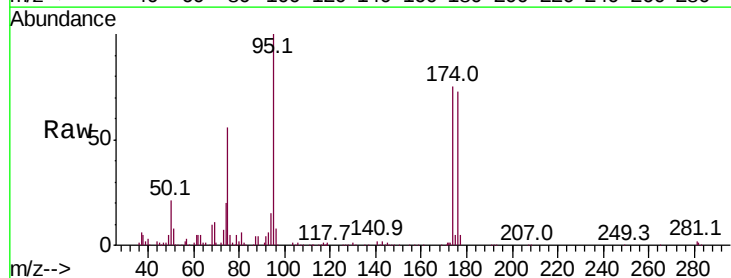
Tgt Ion: 95 Resp: 184062

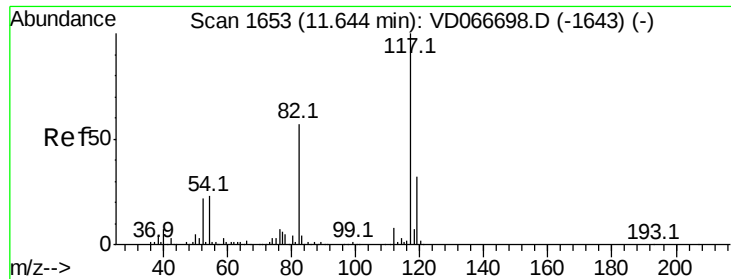
Ion Ratio Lower Upper

95 100

174 77.9 0.0 156.6

176 73.8 0.0 150.2

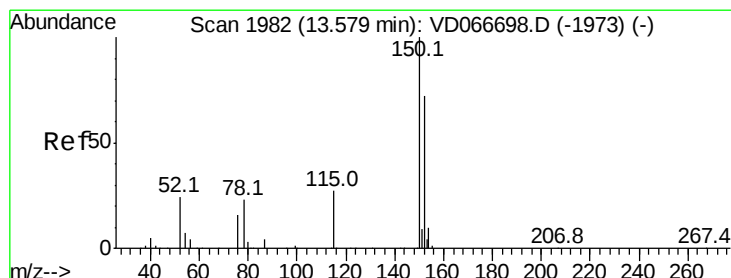
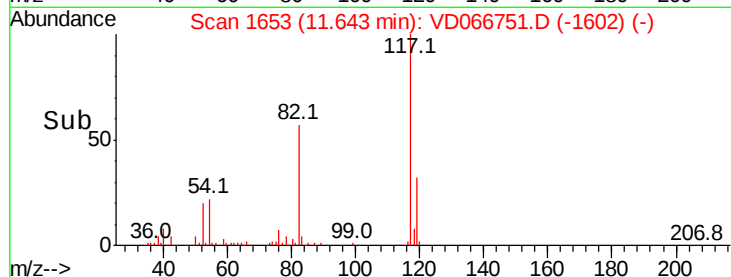
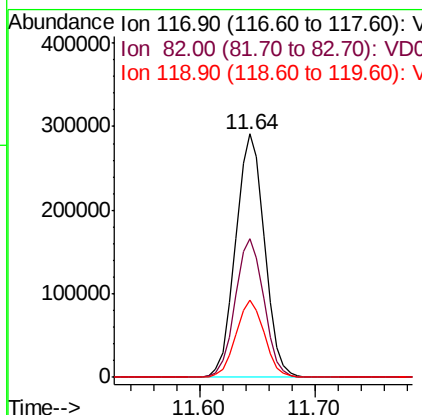
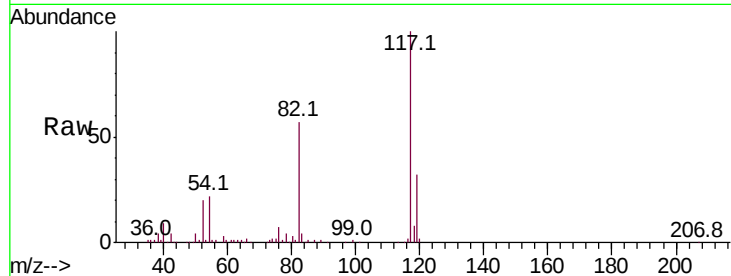




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VD066751.D  
Acq: 17 Sep 2020 18:18

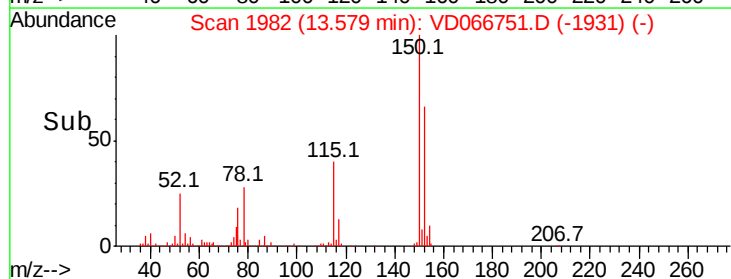
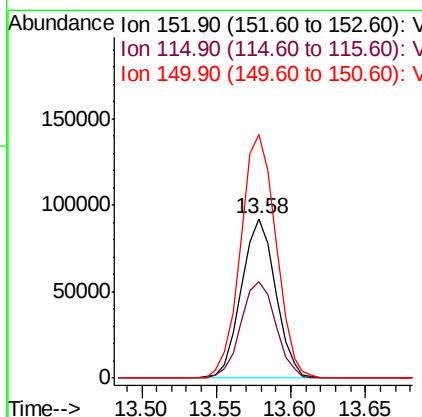
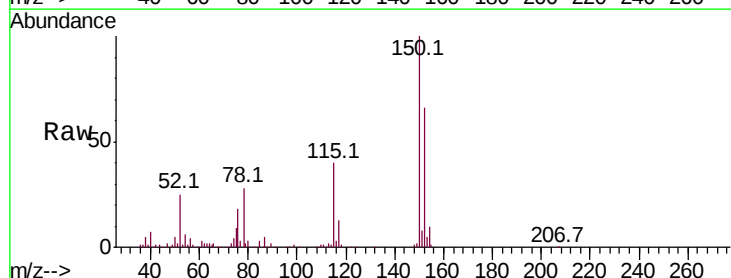
Instrument :  
MSVOA\_D  
ClientSampleId :  
KTS-SB-01-1-2

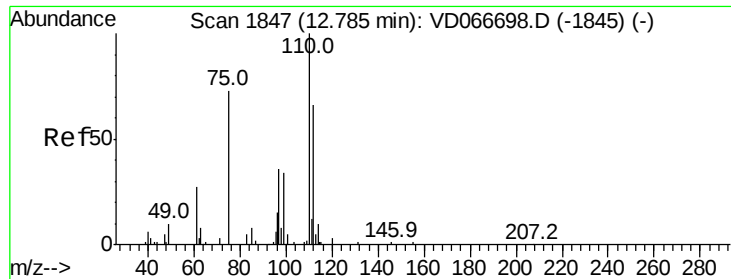
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.0  | 45.4  | 68.0  |
| 119     | 31.8  | 25.8  | 38.6  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: VD066751.D  
Acq: 17 Sep 2020 18:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 61.9  | 30.5  | 91.5  |
| 150     | 157.9 | 0.0   | 344.6 |





#76

1,2,3-Trichloropropane

Concen: 80.931 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066751.D

Acq: 17 Sep 2020 18:18

Instrument :

MSVOA\_D

ClientSampleId :

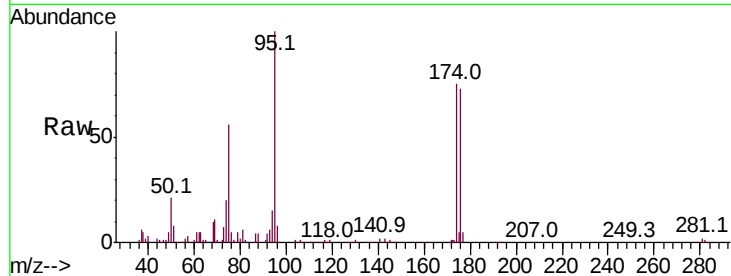
KTS-SB-01-1-2

Tot Ion: 75 Resp: 101474

Ion Ratio Lower Upper

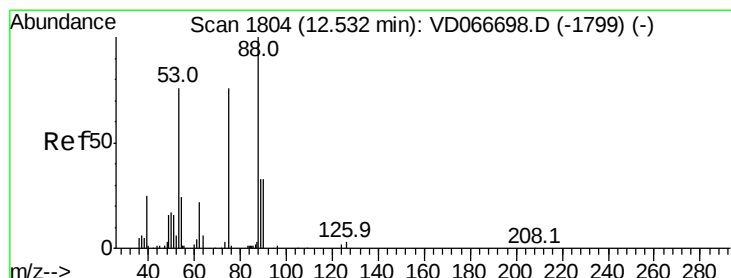
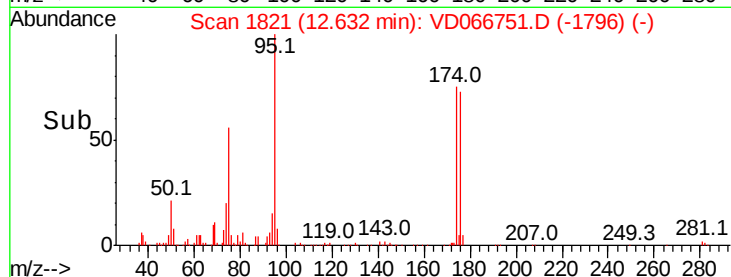
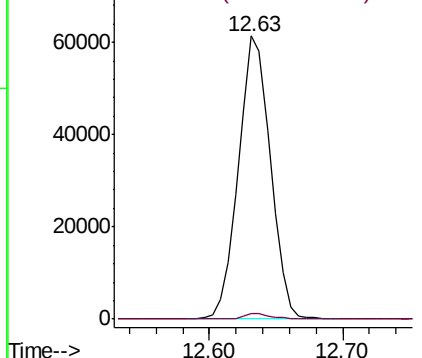
75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 174.664 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066751.D

Acq: 17 Sep 2020 18:18

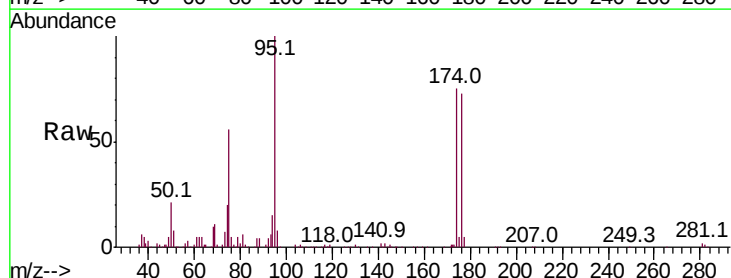
Tgt Ion: 75 Resp: 101474

Ion Ratio Lower Upper

75 100

53 0.3 82.2 123.4#

89 0.0 39.6 59.4#



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

