

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX021419\  
 Data File : VX007520.D  
 Acq On : 13 Feb 2019 15:10  
 Operator : JC/SP  
 Sample : K1460-08  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-20190205

Quant Time: Feb 14 02:36:09 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 520189   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 815139   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 761526   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 365091   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 282642   | 51.19  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 102.38% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 264649   | 49.90  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.80%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 967117   | 49.15  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.30%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 345078   | 48.03  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.06%  |          |

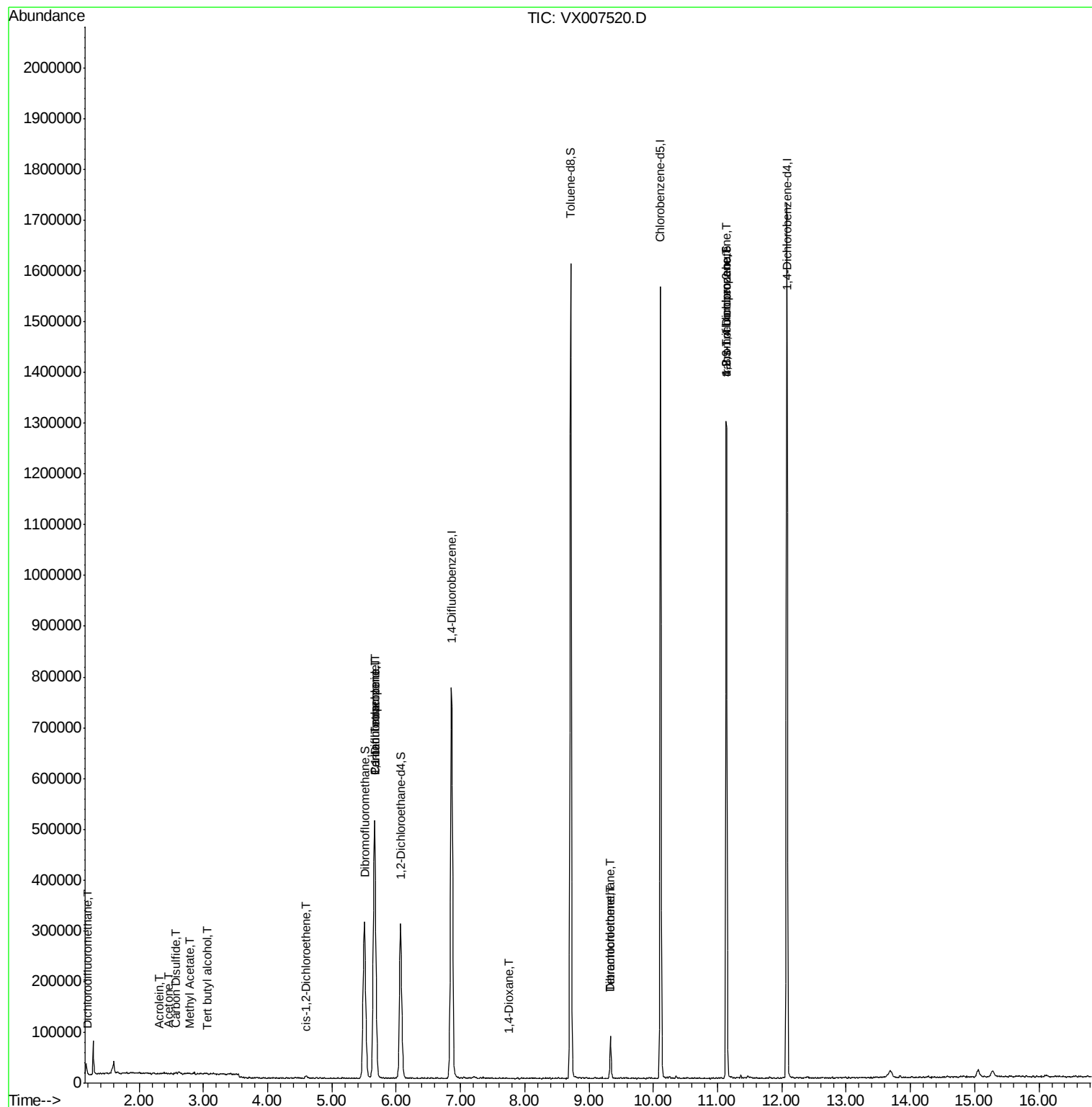
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.20  | 85   | 511      | 0.257     | ug/l # | 68     |
| 5) Bromomethane                | 1.65  | 94   | 801      | Below Cal | #      | 70     |
| 11) Tert butyl alcohol         | 3.07  | 59   | 487      | 0.426     | ug/l # | 73     |
| 13) Acrolein                   | 2.31  | 56   | 460      | 0.858     | ug/l # | 68     |
| 16) Acetone                    | 2.45  | 43   | 1158     | 0.458     | ug/l # | 84     |
| 17) Carbon Disulfide           | 2.57  | 76   | 2136     | 2.279     | ug/l # | 89     |
| 18) Methyl Acetate             | 2.79  | 43   | 1770     | 0.859     | ug/l # | 81     |
| 20) Methylene Chloride         | 2.86  | 84   | 1344     | Below Cal | #      | 90     |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96   | 2439     | 0.422     | ug/l   | 80     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 33648    | 4.601     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 46949    | 6.617     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 68       | 7.399     | ug/l # | 1      |
| 60) Dibromochloromethane       | 9.34  | 129  | 15068    | 2.750     | ug/l # | 12     |
| 64) Tetrachloroethene          | 9.34  | 164  | 16705    | 2.327     | ug/l   | 94     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 163376   | 23.006    | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 163376   | 69.324    | ug/l # | 9      |

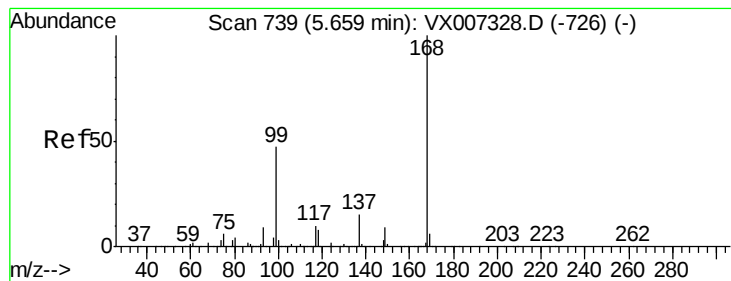
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX021419\  
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Quant Time: Feb 14 02:36:09 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Feb 02 01:32:36 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007520.D

Acq: 13 Feb 2019 15:10

Instrument :

MSVOA\_X

ClientSampleId :

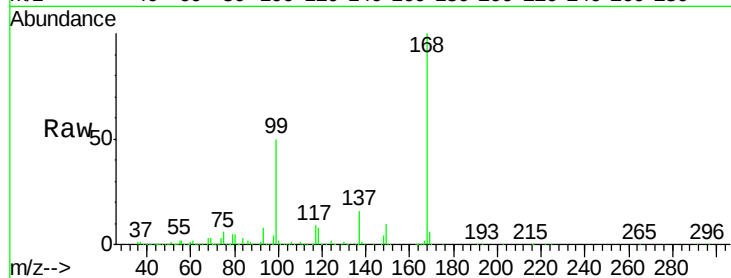
TB-20190205

Tot Ion:168 Resp: 520189

Ion Ratio Lower Upper

168 100

99 50.0 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

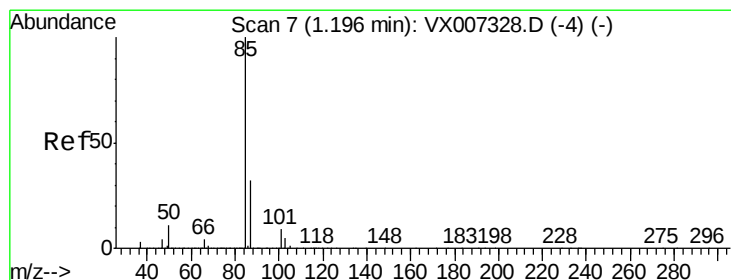
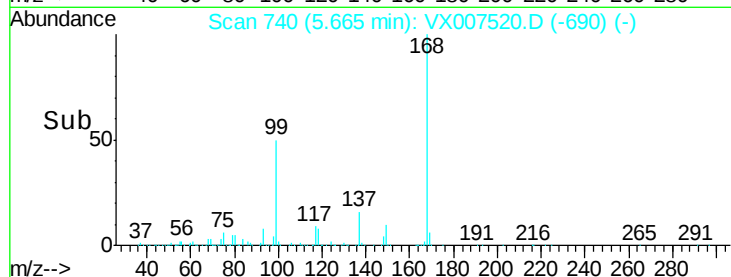
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.257 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007520.D

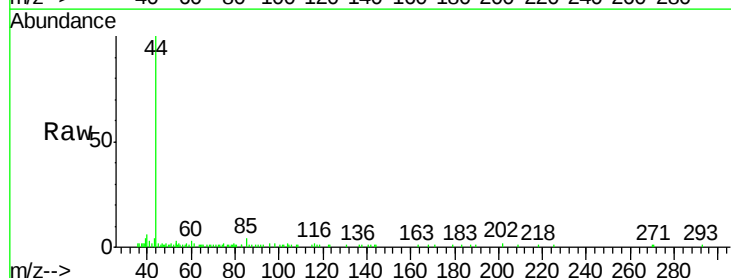
Acq: 13 Feb 2019 15:10

Tgt Ion: 85 Resp: 511

Ion Ratio Lower Upper

85 100

87 49.5 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

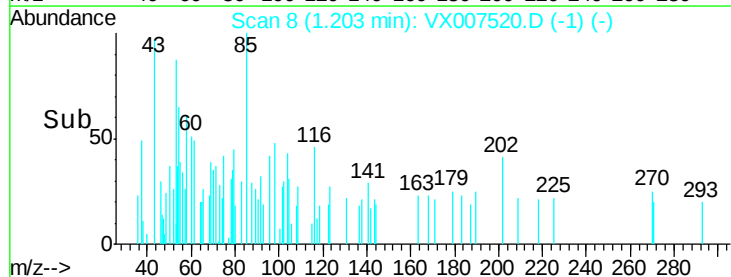
300

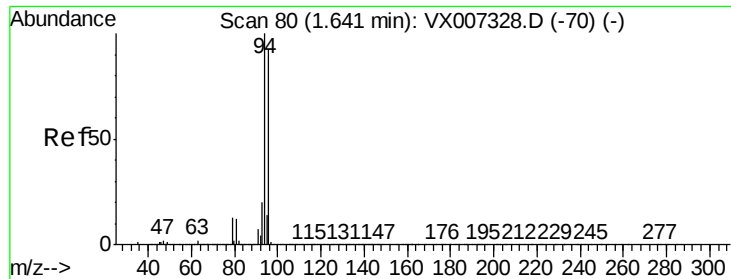
200

100

0

Time--> 1.15 1.20 1.25





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007520.D

Acq: 13 Feb 2019 15:10

Instrument :

MSVOA\_X

ClientSampleId :

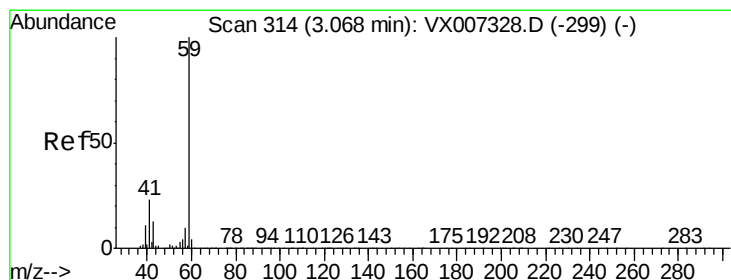
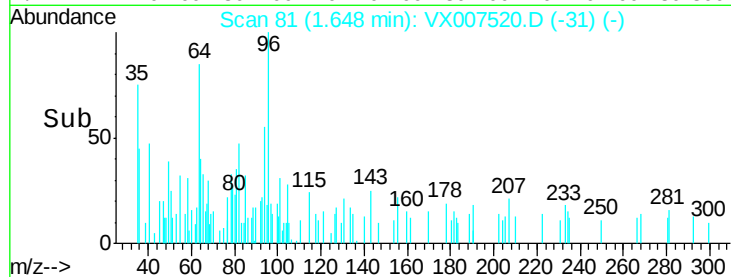
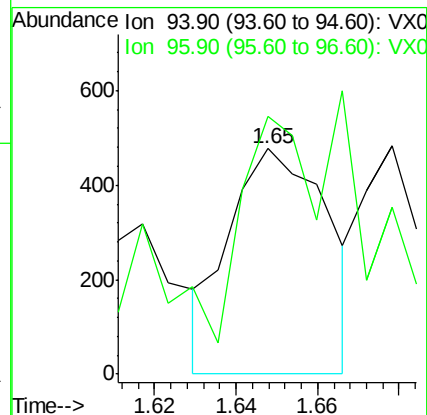
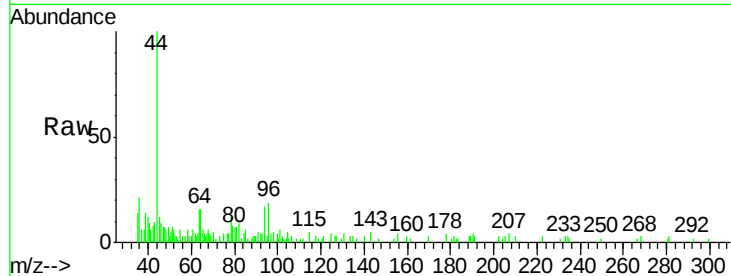
TB-20190205

Tot Ion: 94 Resp: 801

Ion Ratio Lower Upper

94 100

96 121.3 73.9 110.9#



#11

Tert butyl alcohol

Concen: 0.426 ug/l

RT: 3.07 min Scan# 314

Delta R.T. 0.00 min

Lab File: VX007520.D

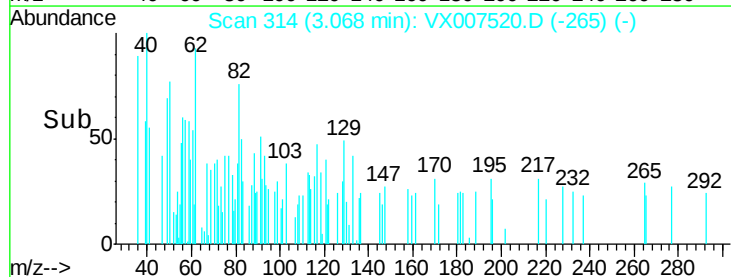
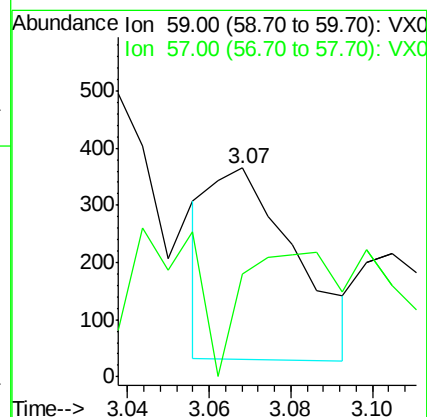
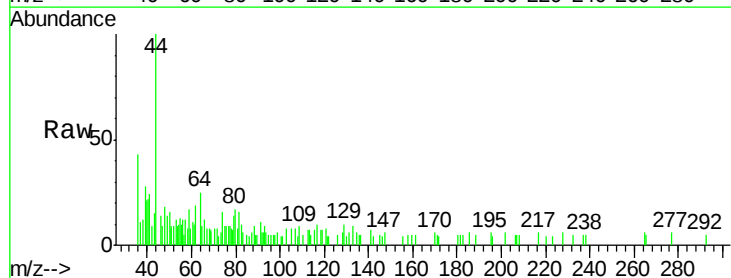
Acq: 13 Feb 2019 15:10

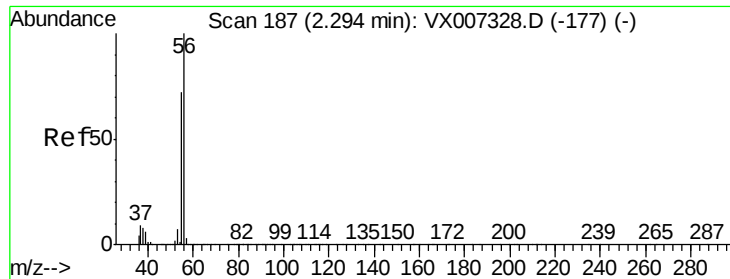
Tgt Ion: 59 Resp: 487

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#





#13

Acrolein

Concen: 0.858 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX007520.D

Acq: 13 Feb 2019 15:10

Instrument :

MSVOA\_X

ClientSampleId :

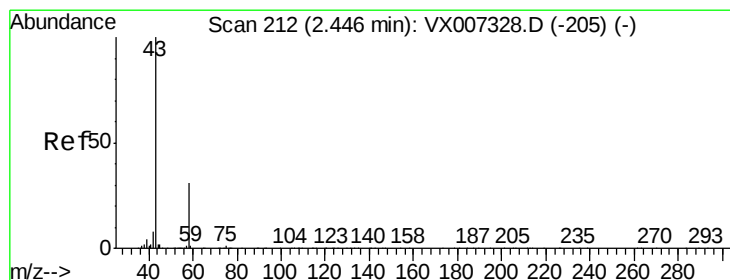
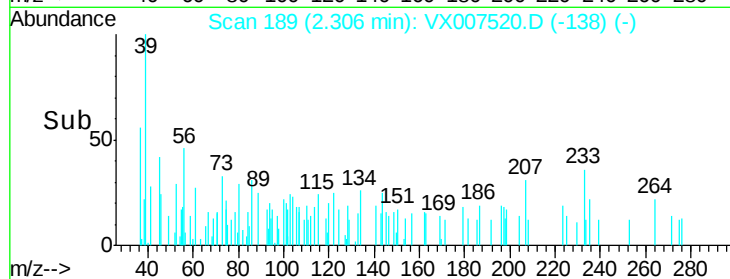
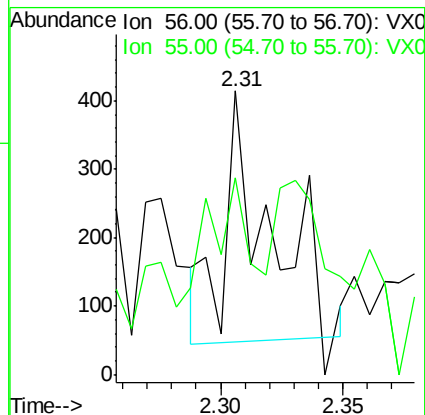
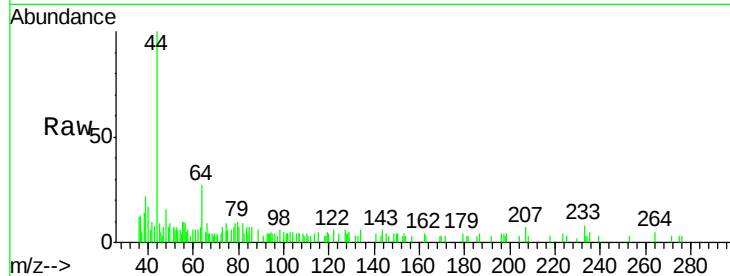
TB-20190205

Tot Ion: 56 Resp: 460

Ion Ratio Lower Upper

56 100

55 45.0 56.9 85.3#



#16

Acetone

Concen: 0.458 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX007520.D

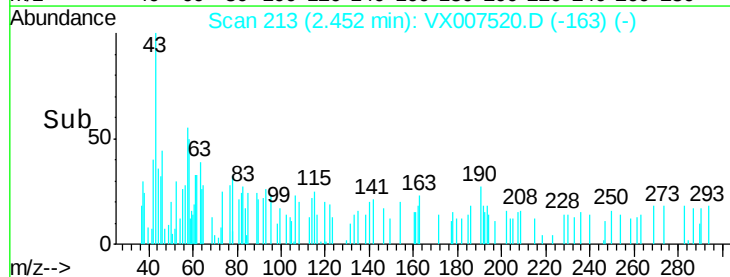
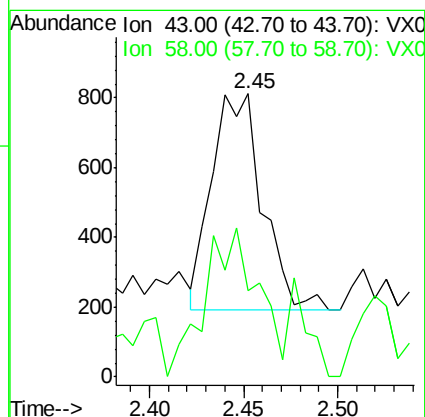
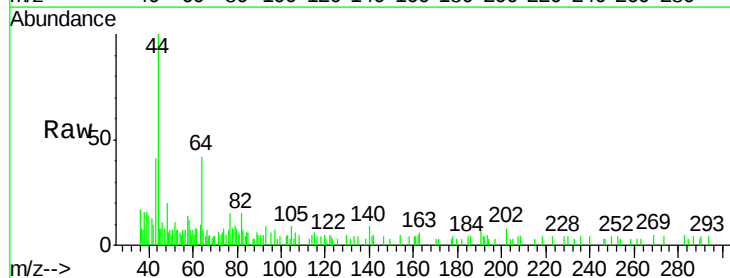
Acq: 13 Feb 2019 15:10

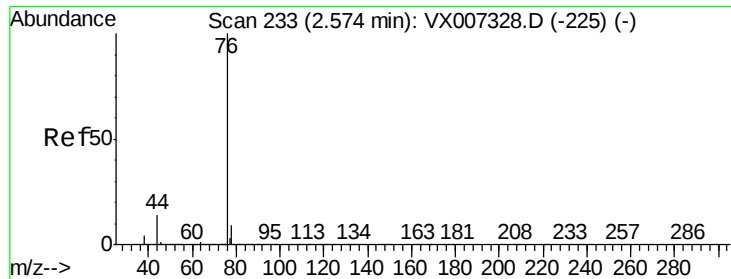
Tgt Ion: 43 Resp: 1158

Ion Ratio Lower Upper

43 100

58 40.0 24.9 37.3#





#17

Carbon Disulfide

Concen: 2.279 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007520.D

Acq: 13 Feb 2019 15:10

Instrument :

MSVOA\_X

ClientSampleId :

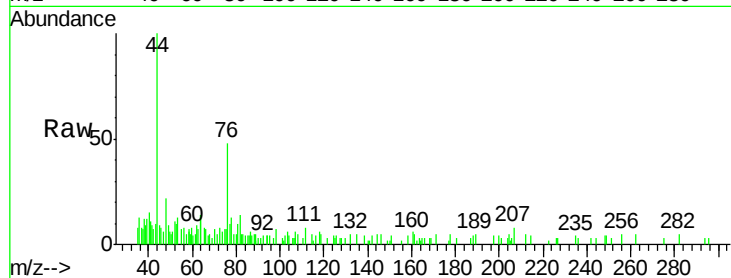
TB-20190205

Tot Ion: 76 Resp: 2136

Ion Ratio Lower Upper

76 100

78 12.7 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1200

1000

800

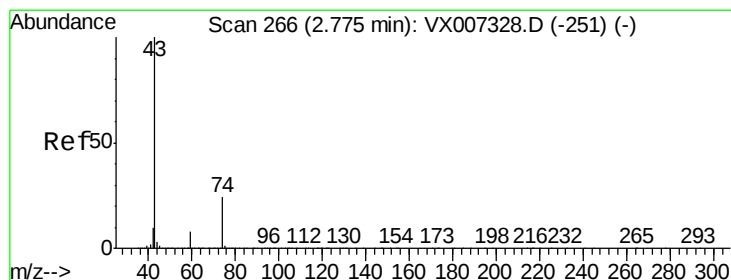
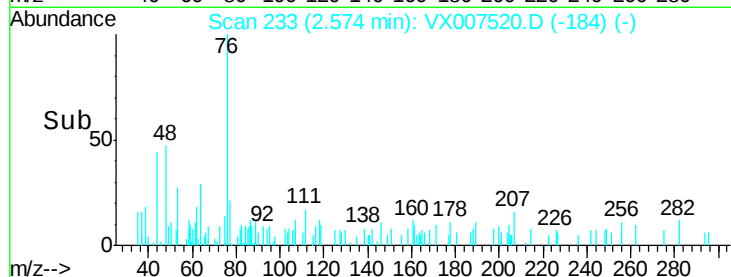
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 0.859 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX007520.D

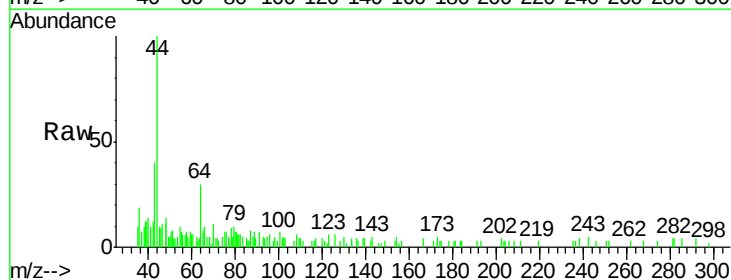
Acq: 13 Feb 2019 15:10

Tgt Ion: 43 Resp: 1770

Ion Ratio Lower Upper

43 100

74 15.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

1000

800

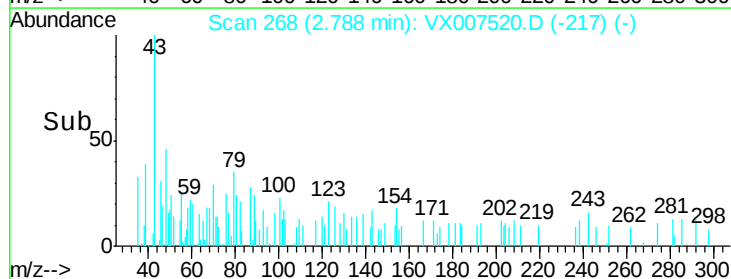
600

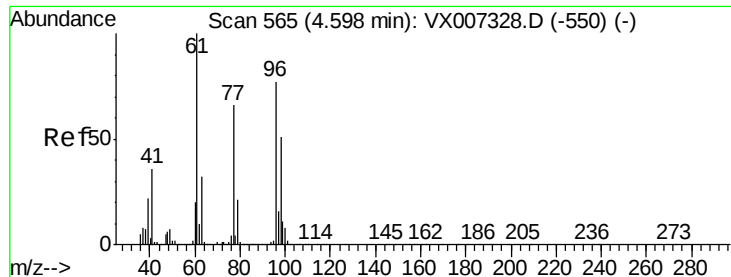
400

200

0

Time-->



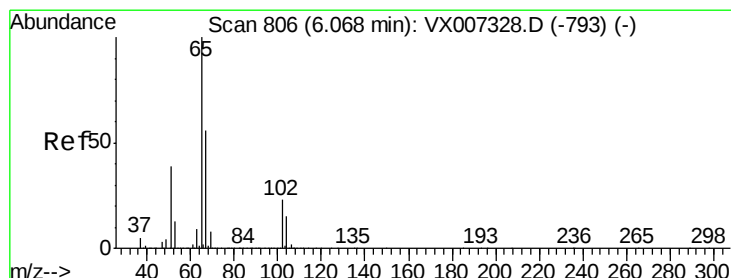
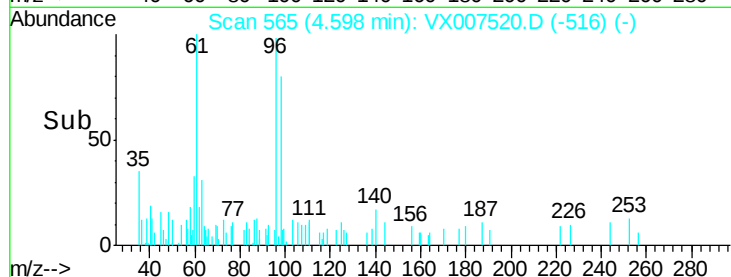
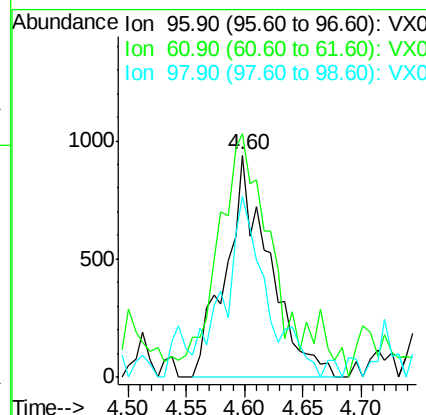
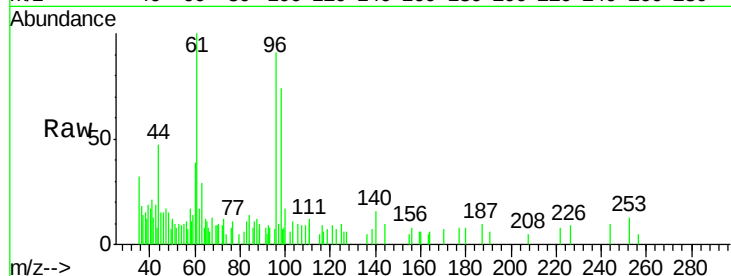


#27

cis-1,2-Dichloroethene  
Concen: 0.422 ug/l  
RT: 4.60 min Scan# 565  
Delta R.T. 0.00 min  
Lab File: VX007520.D  
Acq: 13 Feb 2019 15:10

Instrument :  
MSVOA\_X  
ClientSampled :  
TB-20190205

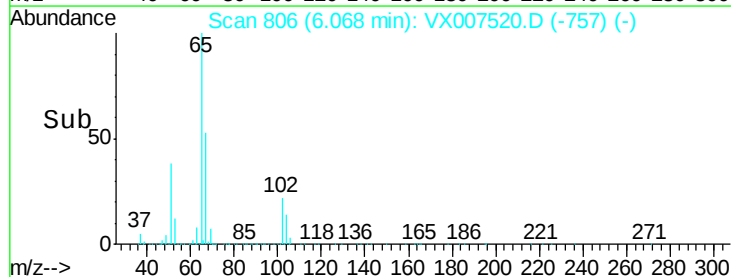
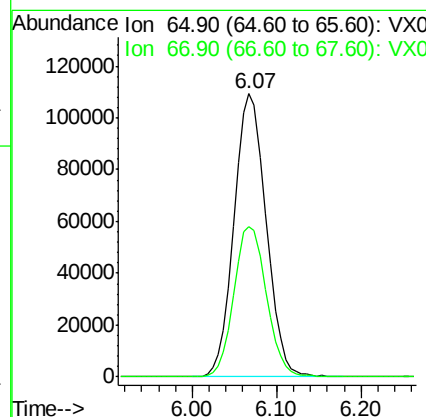
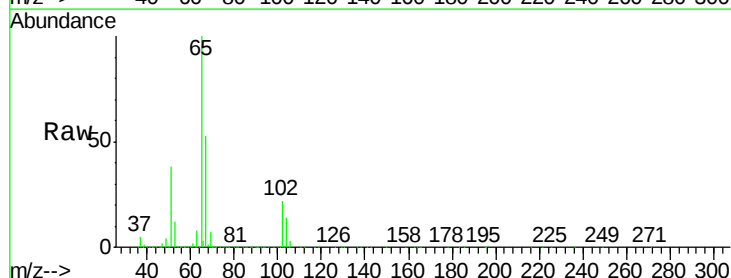
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 108.7 | 0.0   | 265.6 |
| 98      | 51.6  | 0.0   | 131.6 |

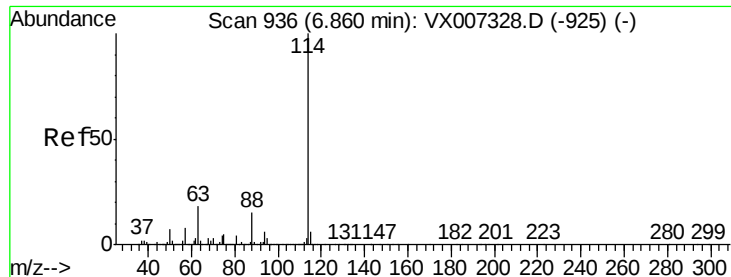


#33

1,2-Dichloroethane-d4  
Concen: 51.190 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: VX007520.D  
Acq: 13 Feb 2019 15:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 53.9  | 0.0   | 108.8 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007520.D

Acq: 13 Feb 2019 15:10

Instrument :

MSVOA\_X

ClientSampleId :

TB-20190205

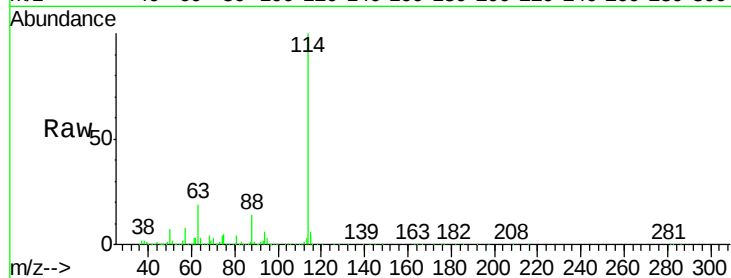
Tot Ion:114 Resp: 815139

Ion Ratio Lower Upper

114 100

63 18.5 0.0 35.6

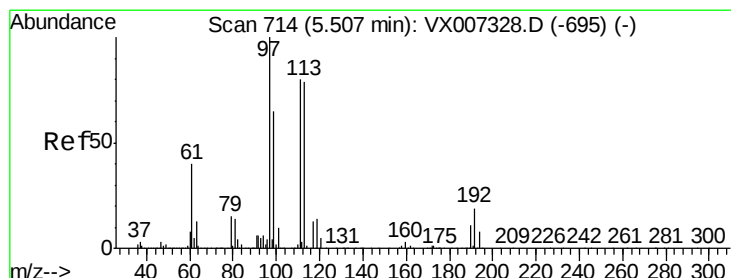
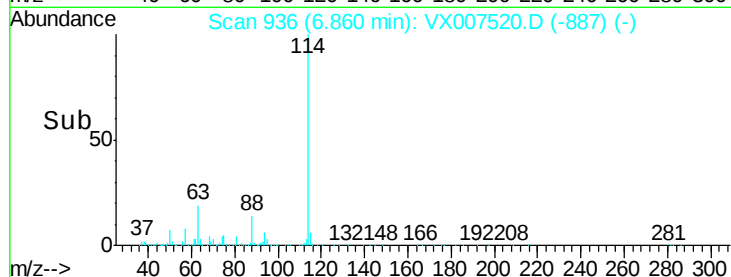
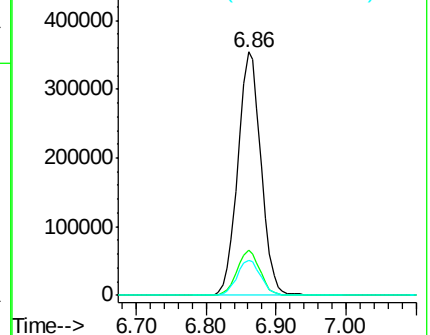
88 14.4 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.898 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007520.D

Acq: 13 Feb 2019 15:10

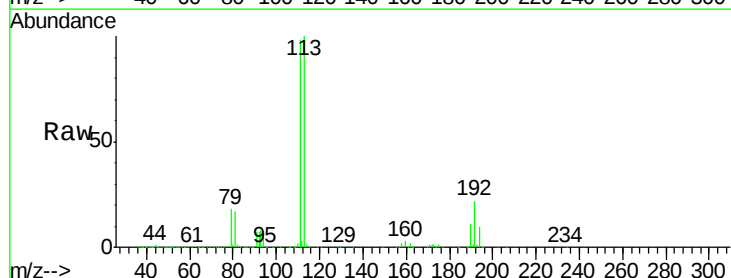
Tgt Ion:113 Resp: 264649

Ion Ratio Lower Upper

113 100

111 101.3 81.8 122.8

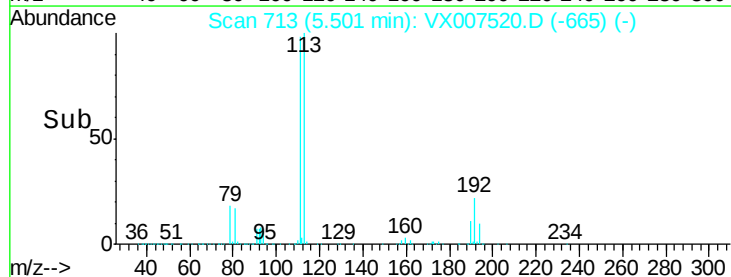
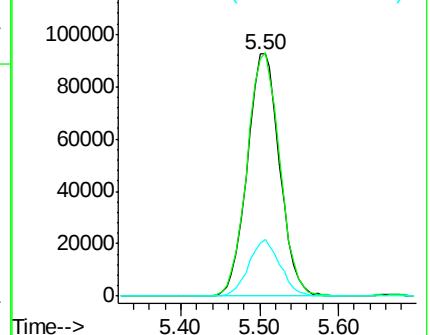
192 22.7 18.5 27.7

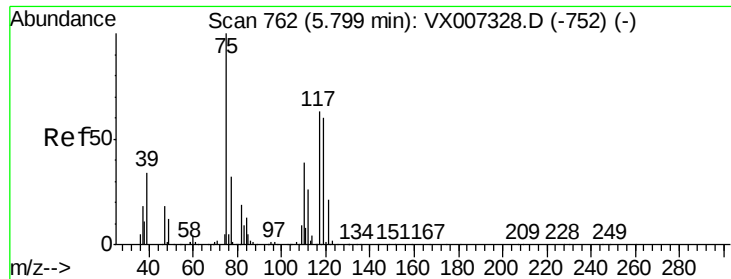


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

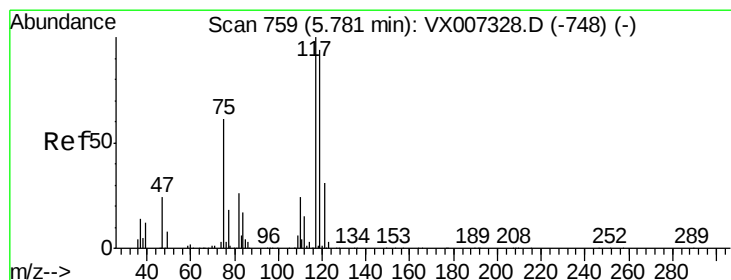
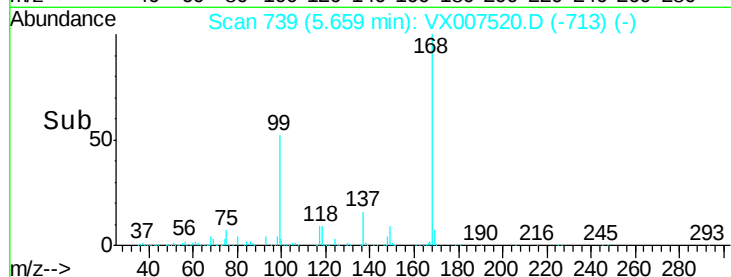
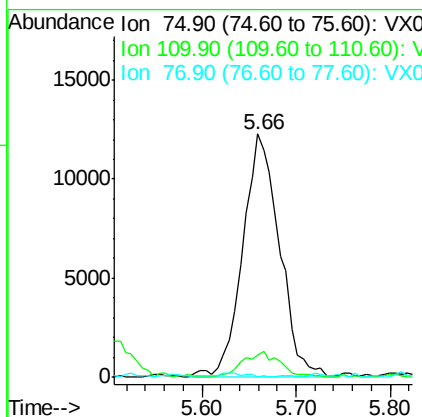
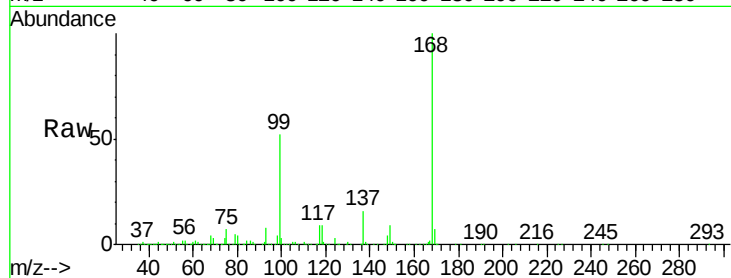




#36  
 1,1-Dichloropropene  
 Concen: 4.601 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX007520.D  
 Acq: 13 Feb 2019 15:10

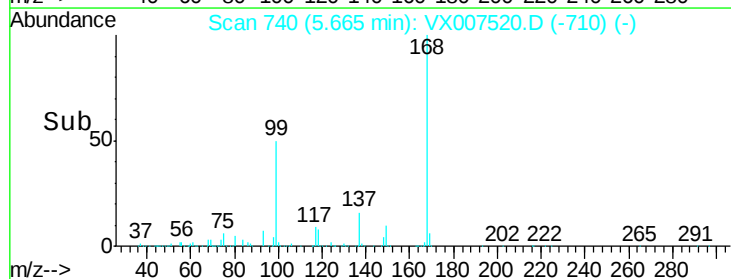
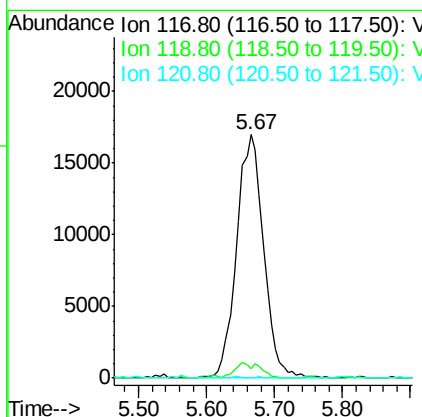
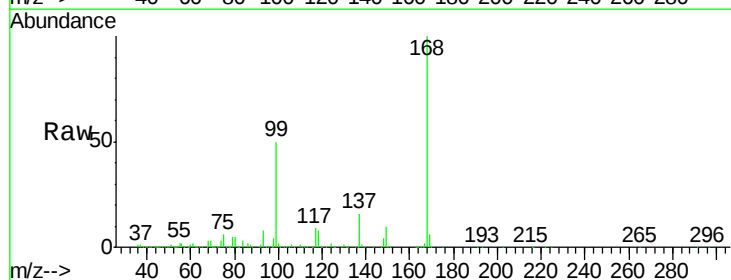
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-20190205

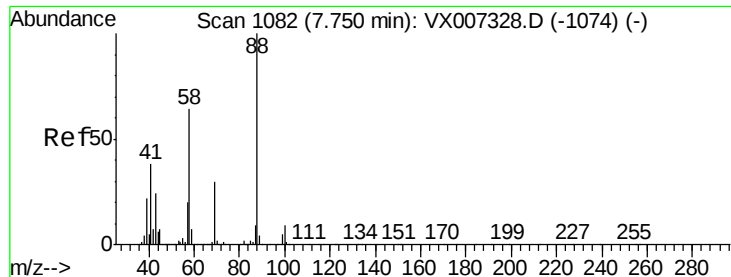
Tot Ion: 75 Resp: 33648  
 Ion Ratio Lower Upper  
 75 100  
 110 10.9 20.0 59.9#  
 77 0.0 24.7 37.1#



#38  
 Carbon Tetrachloride  
 Concen: 6.617 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.12 min  
 Lab File: VX007520.D  
 Acq: 13 Feb 2019 15:10

Tgt Ion: 117 Resp: 46949  
 Ion Ratio Lower Upper  
 117 100  
 119 4.0 75.3 112.9#  
 121 0.4 25.0 37.4#

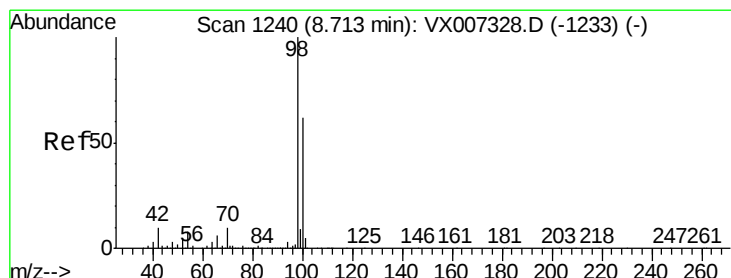
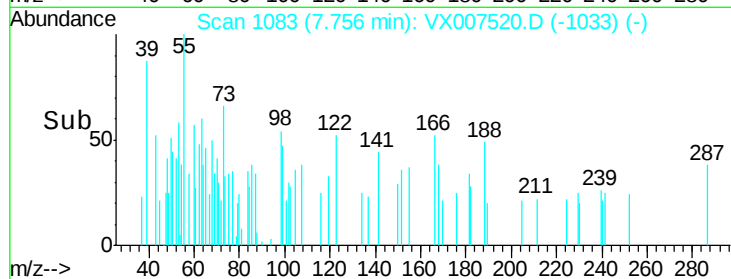
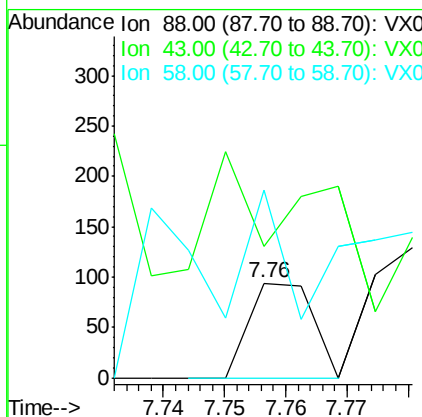
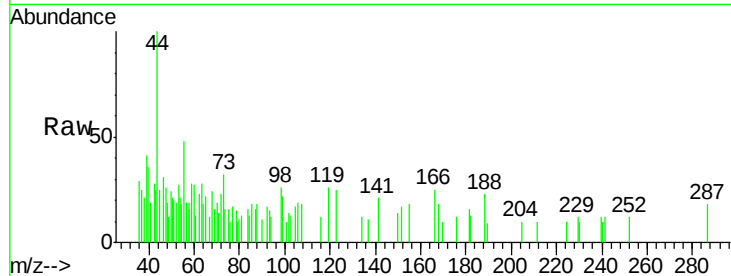




#49  
1,4-Dioxane  
Concen: 7.399 ug/l  
RT: 7.76 min Scan# 1083  
Delta R.T. 0.01 min  
Lab File: VX007520.D  
Acq: 13 Feb 2019 15:10

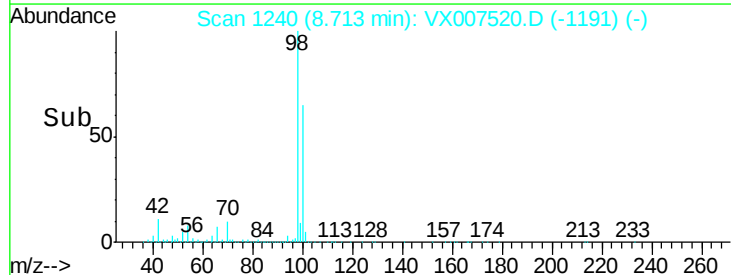
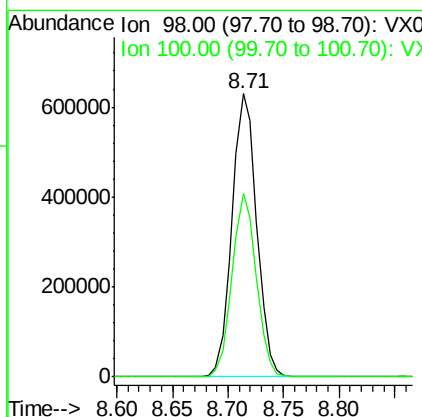
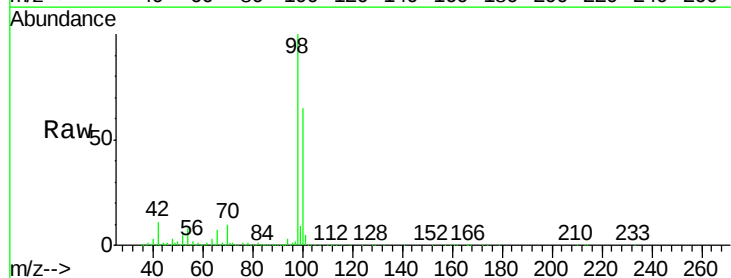
Instrument :  
MSVOA\_X  
ClientSampled :  
TB-20190205

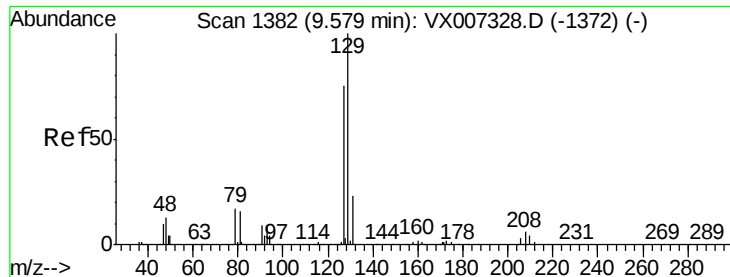
Tot Ion: 88 Resp: 68  
Ion Ratio Lower Upper  
88 100  
43 255.9 24.2 36.4#  
58 100.0 53.0 79.4#



#50  
Toluene-d8  
Concen: 49.147 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX007520.D  
Acq: 13 Feb 2019 15:10

Tgt Ion: 98 Resp: 967117  
Ion Ratio Lower Upper  
98 100  
100 63.6 51.6 77.4





#60

Dibromochloromethane

Concen: 2.750 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007520.D

Acq: 13 Feb 2019 15:10

Instrument :

MSVOA\_X

ClientSampleId :

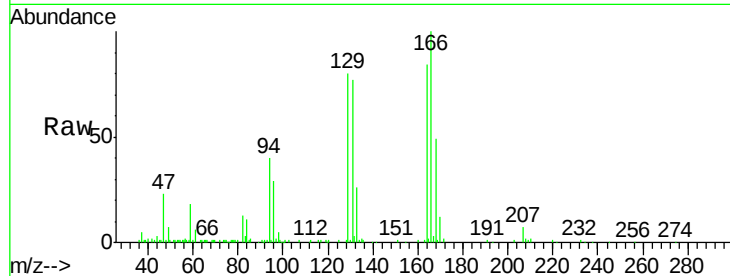
TB-20190205

Tot Ion:129 Resp: 15068

Ion Ratio Lower Upper

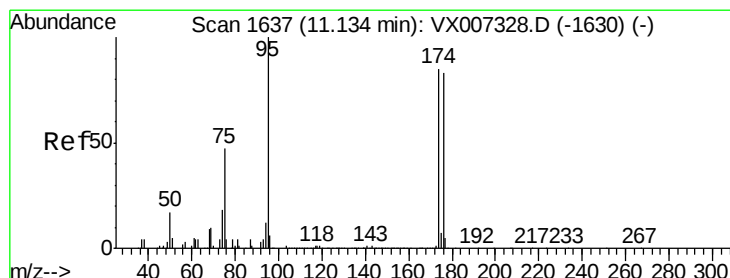
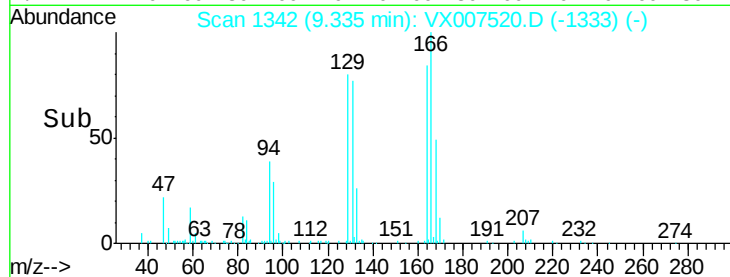
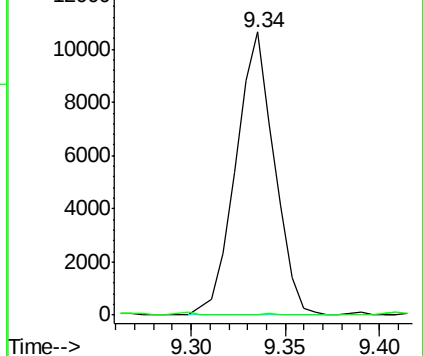
129 100

127 0.2 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 48.031 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007520.D

Acq: 13 Feb 2019 15:10

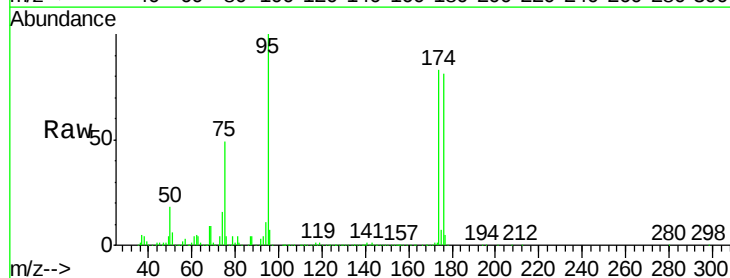
Tgt Ion: 95 Resp: 345078

Ion Ratio Lower Upper

95 100

174 91.6 0.0 189.2

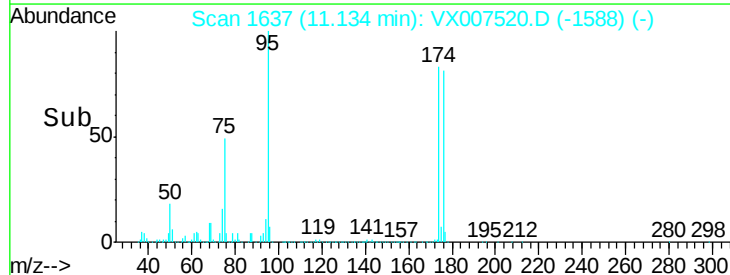
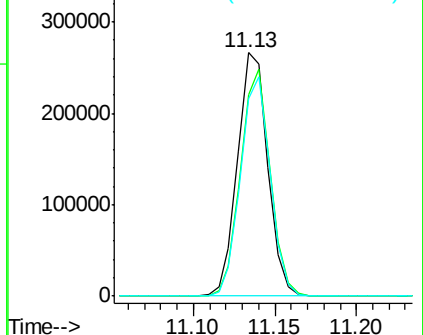
176 88.9 0.0 186.2

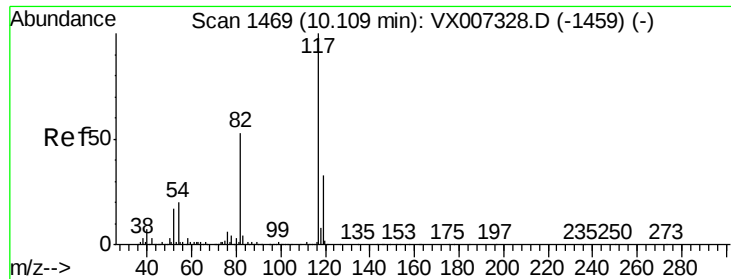


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

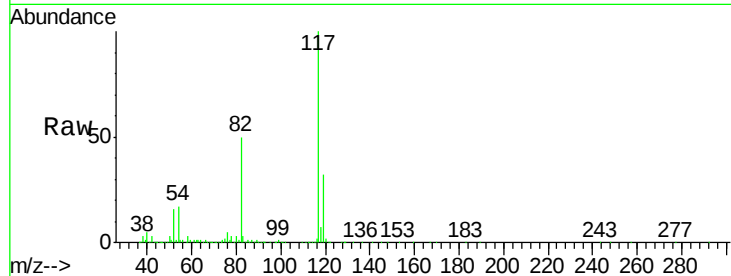




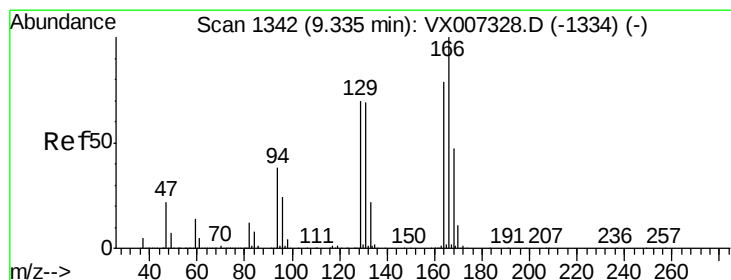
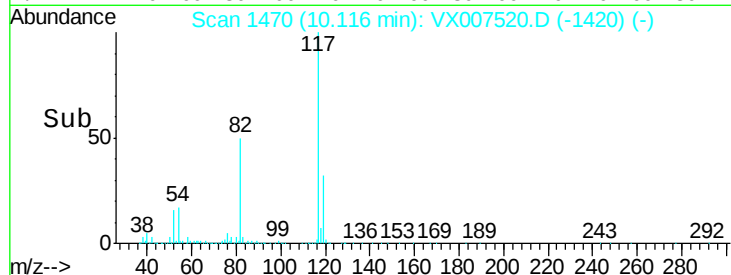
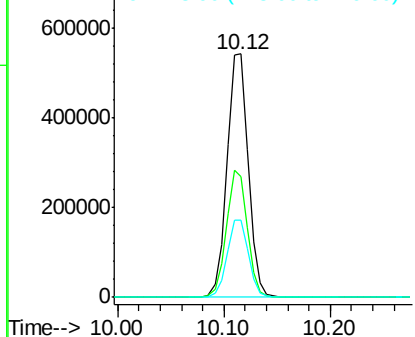
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX007520.D  
Acq: 13 Feb 2019 15:10

Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-20190205

Tot Ion:117 Resp: 761526  
Ion Ratio Lower Upper  
117 100  
82 49.5 42.1 63.1  
119 31.6 26.5 39.7



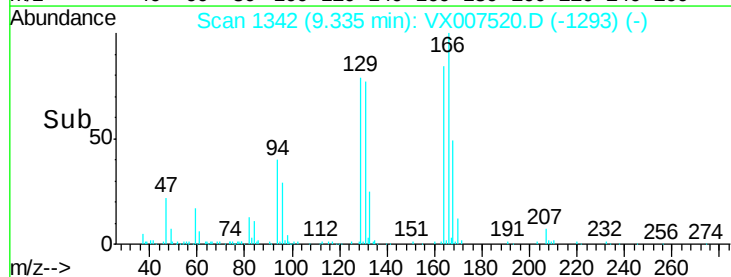
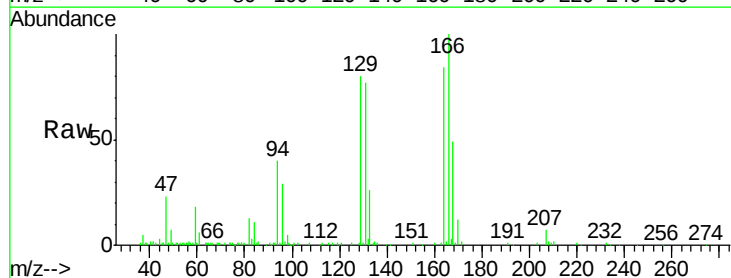
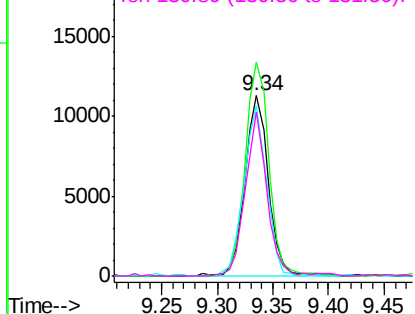
Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

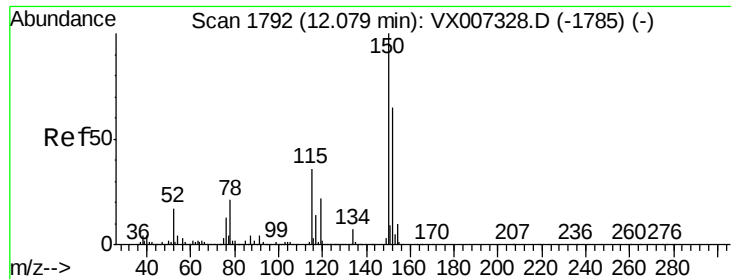


#64  
Tetrachloroethene  
Concen: 2.327 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. 0.00 min  
Lab File: VX007520.D  
Acq: 13 Feb 2019 15:10

Tgt Ion:164 Resp: 16705  
Ion Ratio Lower Upper  
164 100  
166 118.6 101.0 151.4  
129 94.5 70.5 105.7  
131 91.0 69.8 104.6

Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V



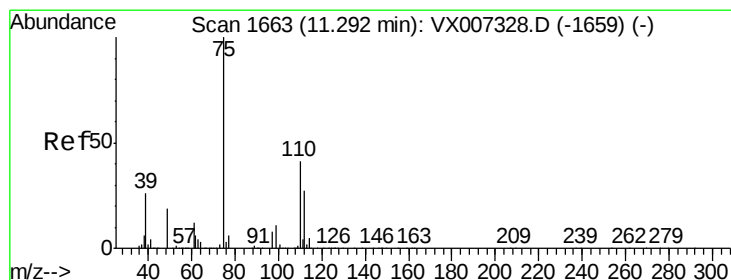
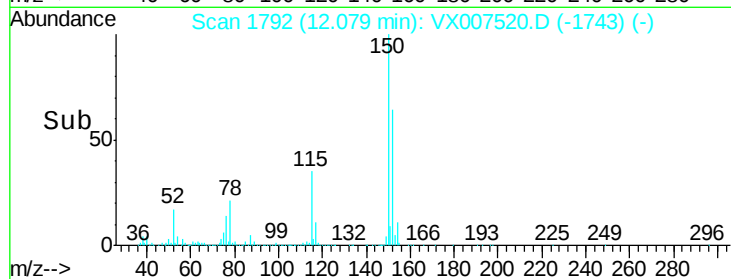
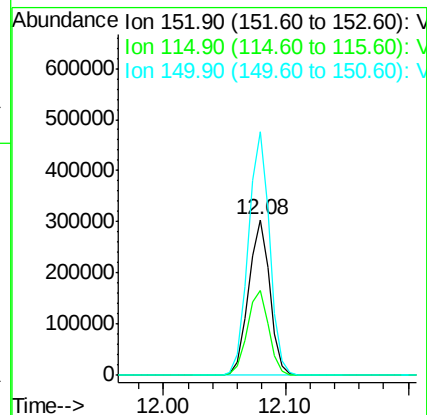
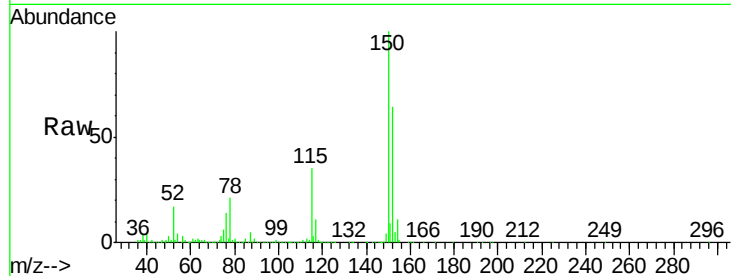


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX007520.D  
Acq: 13 Feb 2019 15:10

Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-20190205

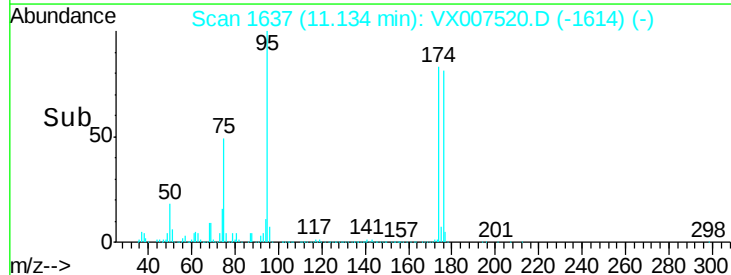
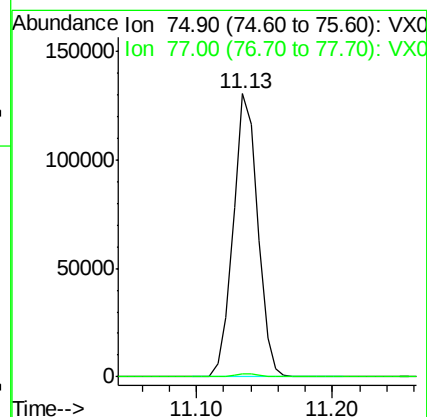
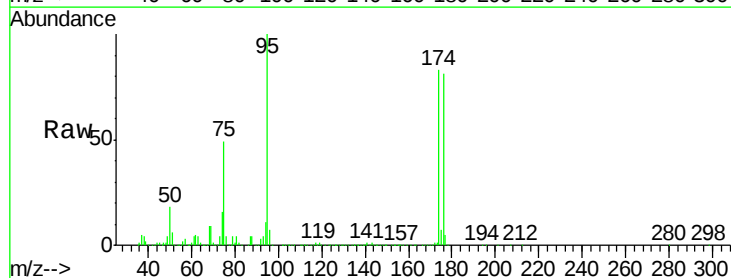
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.2  | 38.0  | 114.0 |
| 150     | 156.7 | 0.0   | 346.4 |

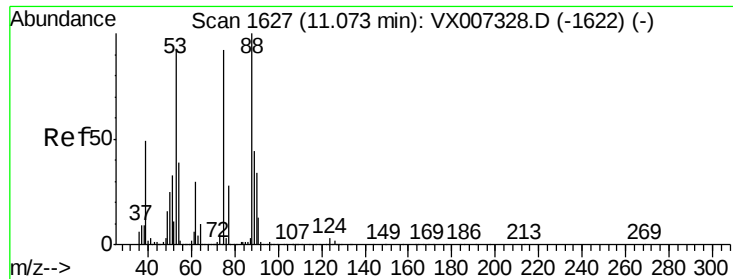


#76

1,2,3-Trichloropropane  
Concen: 23.006 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.16 min  
Lab File: VX007520.D  
Acq: 13 Feb 2019 15:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.3   | 23.0  | 69.0  |





#81

trans-1,4-Dichloro-2-butene

Concen: 69.324 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007520.D

Acq: 13 Feb 2019 15:10

Instrument :

MSVOA\_X

ClientSampleId :

TB-20190205

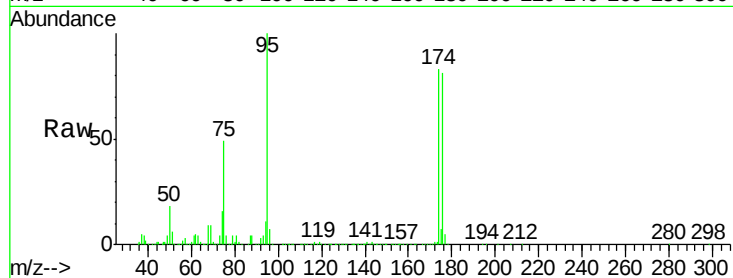
Tot Ion: 75 Resp: 163376

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.0 41.4 62.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

