

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112019\  
 Data File : VX013477.D  
 Acq On : 20 Nov 2019 15:12  
 Operator : JC/SP  
 Sample : K5958-09  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 21 00:47:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 07:06:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 755476   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1213303  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 1081361  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 470463   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 445529   | 49.78 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.56%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 365713   | 48.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.12%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1451509  | 50.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.18% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 478373   | 46.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.40%  |          |

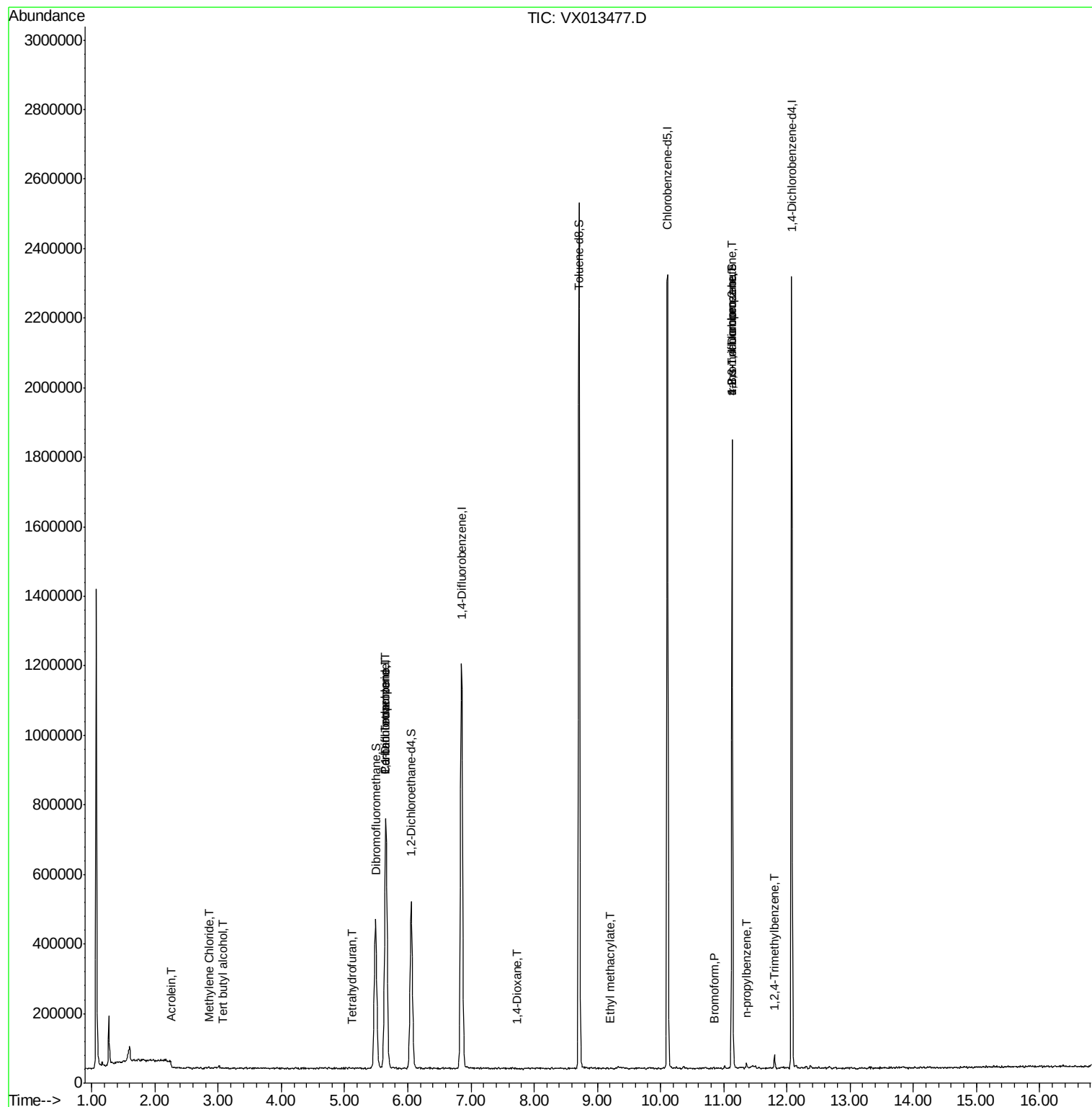
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.80  | 64   | 867      | Below Cal | #      | 80     |
| 11) Tert butyl alcohol         | 3.06  | 59   | 832      | 0.353     | ug/l # | 73     |
| 13) Acrolein                   | 2.27  | 56   | 320      | 0.250     | ug/l # | 1      |
| 20) Methylene Chloride         | 2.86  | 84   | 2015     | 0.244     | ug/l # | 48     |
| 29) Tetrahydrofuran            | 5.12  | 42   | 932      | 0.231     | ug/l # | 58     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 49272    | 4.734     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 64946    | 6.381     | ug/l # | 17     |
| 49) 1,4-Dioxane                | 7.74  | 88   | 109      | 0.476     | ug/l # | 1      |
| 56) Ethyl methacrylate         | 9.20  | 69   | 807      | 1.618     | ug/l # | 70     |
| 71) Bromoform                  | 10.85 | 173  | 417      | 3.255     | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 237923   | 24.898    | ug/l # | 34     |
| 78) n-propylbenzene            | 11.35 | 91   | 9212     | 0.265     | ug/l   | 90     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 237923   | 64.088    | ug/l # | 9      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 18839    | 0.723     | ug/l   | 92     |

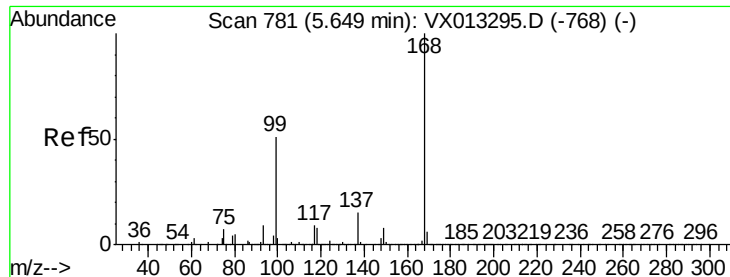
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112019\  
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MSVOA\_X  
ClientSampleId :

Quant Time: Nov 21 00:47:38 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 02 07:06:38 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013477.D

Acq: 20 Nov 2019 15:12

Instrument :

MSVOA\_X

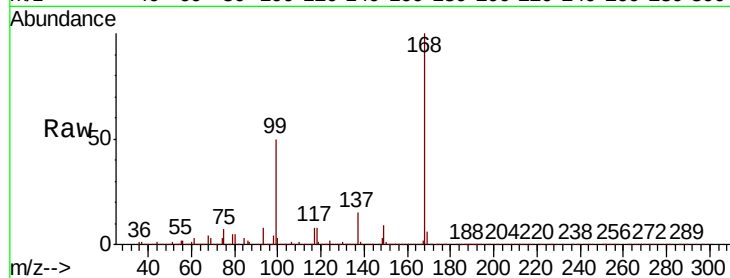
ClientSampled :

Tot Ion:168 Resp: 755476

Ion Ratio Lower Upper

168 100

99 49.8 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

300000

250000

200000

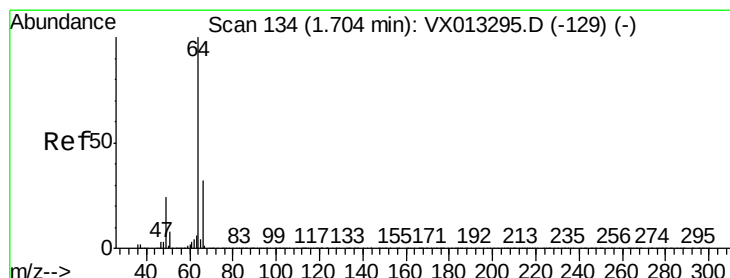
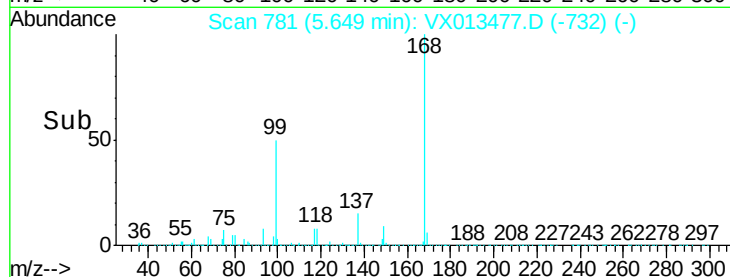
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.80 min Scan# 150

Delta R.T. 0.10 min

Lab File: VX013477.D

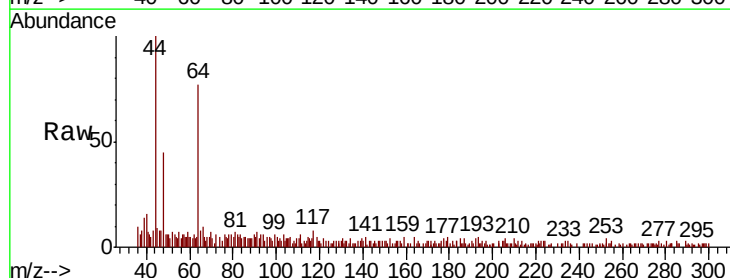
Acq: 20 Nov 2019 15:12

Tgt Ion: 64 Resp: 867

Ion Ratio Lower Upper

64 100

66 20.7 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

5000

4000

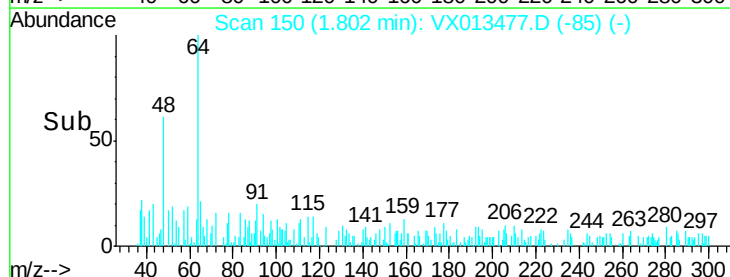
3000

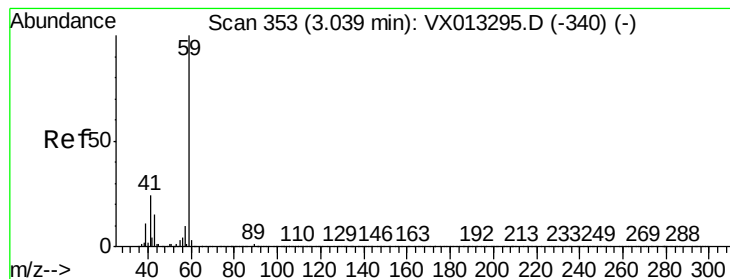
2000

1000

0

Time-->





#11

Tert butyl alcohol

Concen: 0.353 ug/l

RT: 3.06 min Scan# 357

Delta R.T. 0.02 min

Lab File: VX013477.D

Acq: 20 Nov 2019 15:12

Instrument :

MSVOA\_X

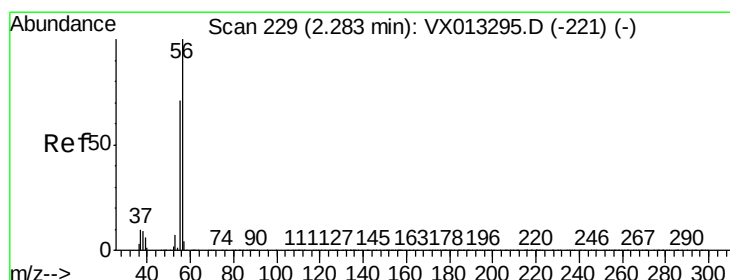
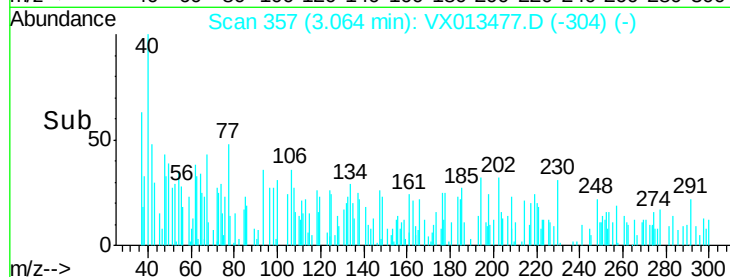
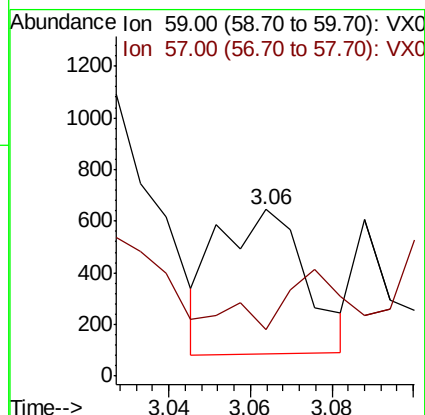
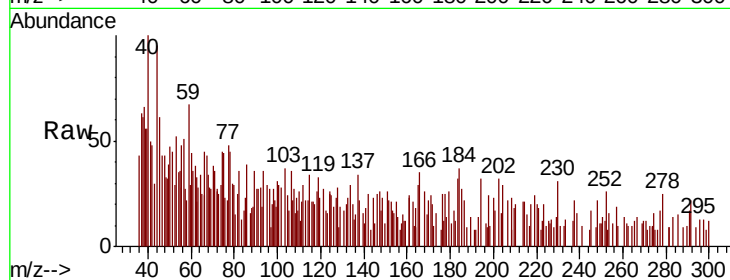
ClientSampled :

Tot Ion: 59 Resp: 832

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



#13

Acrolein

Concen: 0.250 ug/l

RT: 2.27 min Scan# 226

Delta R.T. -0.02 min

Lab File: VX013477.D

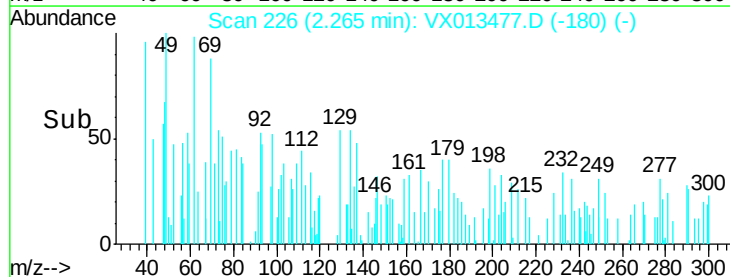
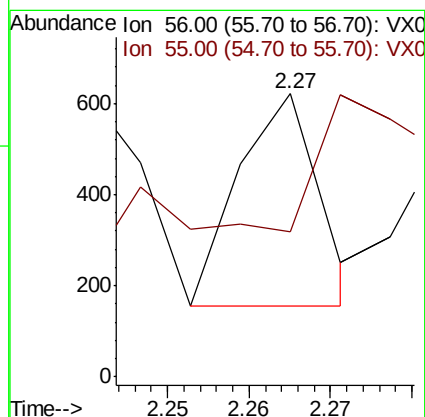
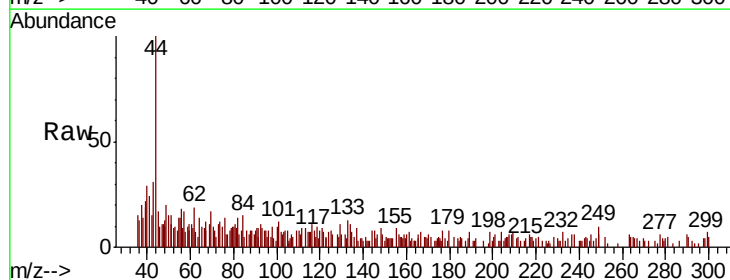
Acq: 20 Nov 2019 15:12

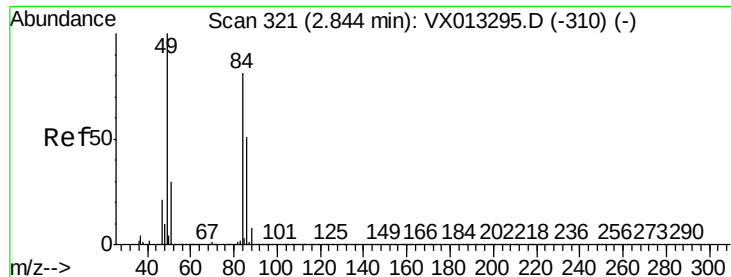
Tgt Ion: 56 Resp: 320

Ion Ratio Lower Upper

56 100

55 153.8 57.4 86.0#

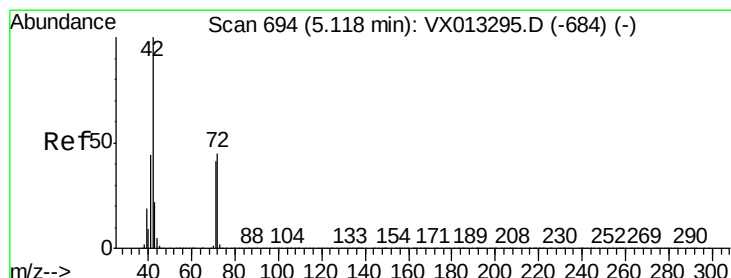
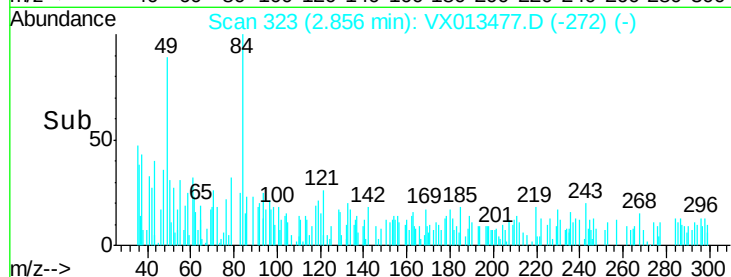
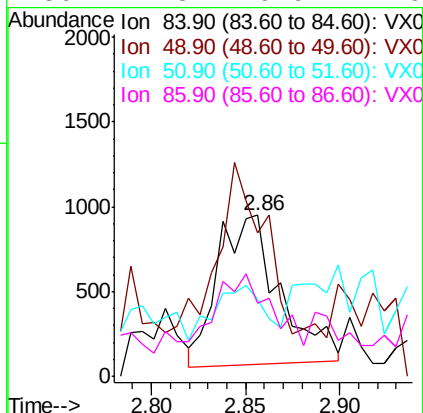
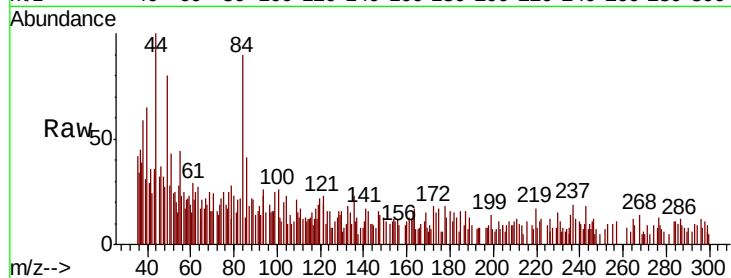




#20  
Methylene Chloride  
Concen: 0.244 ug/l  
RT: 2.86 min Scan# 323  
Delta R.T. 0.01 min  
Lab File: VX013477.D  
Acq: 20 Nov 2019 15:12

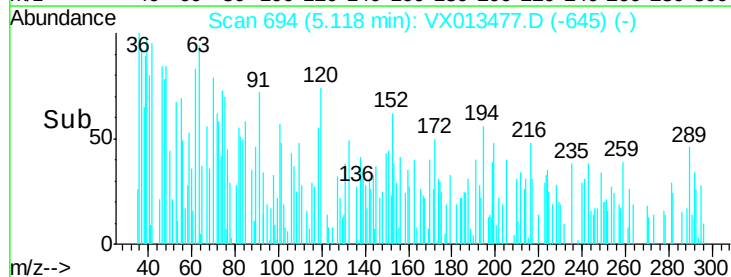
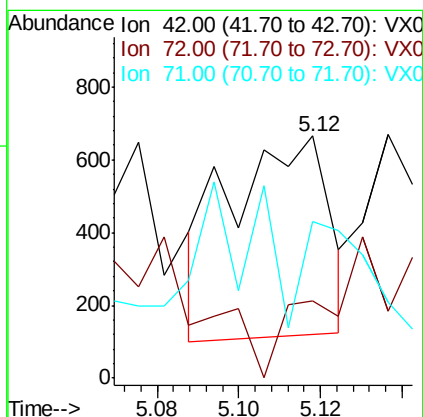
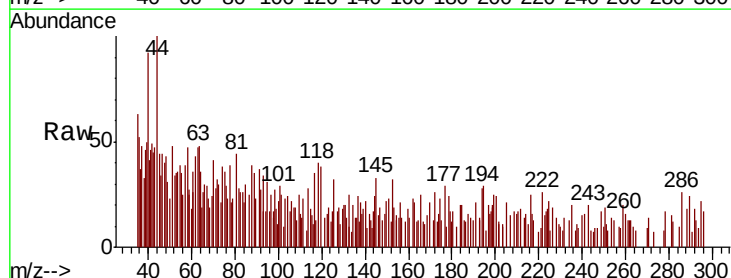
Instrument :  
MSVOA\_X  
ClientSampleId :

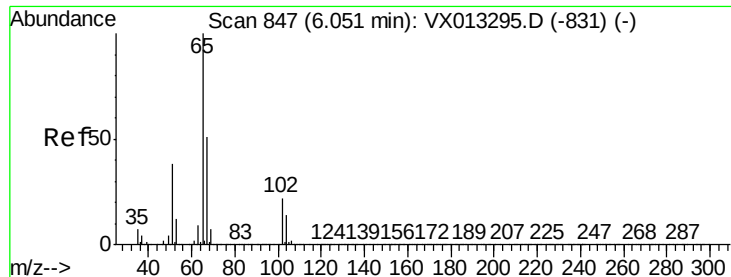
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 2015   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 47.4  | 98.2  | 147.4# |
| 51       | 29.4  | 29.9  | 44.9#  |
| 86       | 27.3  | 49.9  | 74.9#  |



#29  
Tetrahydrofuran  
Concen: 0.231 ug/l  
RT: 5.12 min Scan# 694  
Delta R.T. 0.00 min  
Lab File: VX013477.D  
Acq: 20 Nov 2019 15:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 932   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 35.8  | 53.8# |
| 71       | 33.2  | 33.4  | 50.0# |

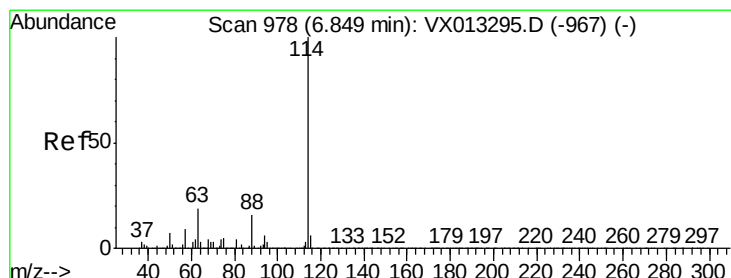
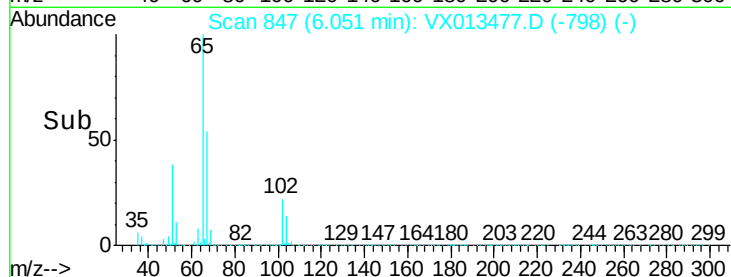
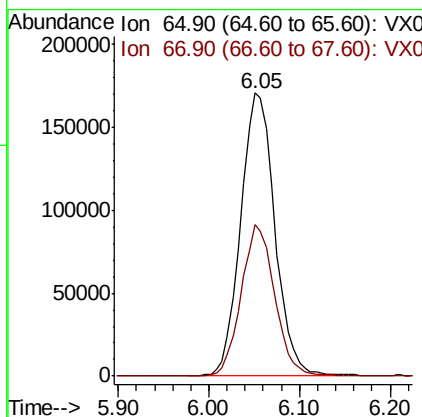
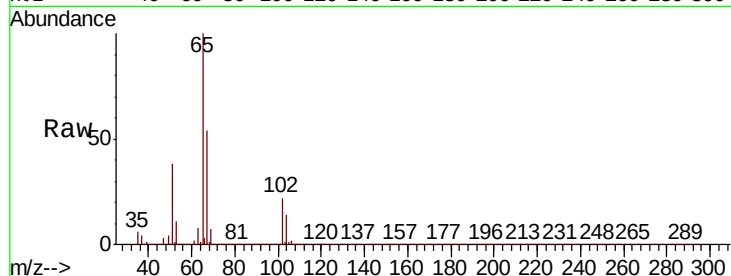




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.779 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. 0.00 min  
 Lab File: VX013477.D  
 Acq: 20 Nov 2019 15:12

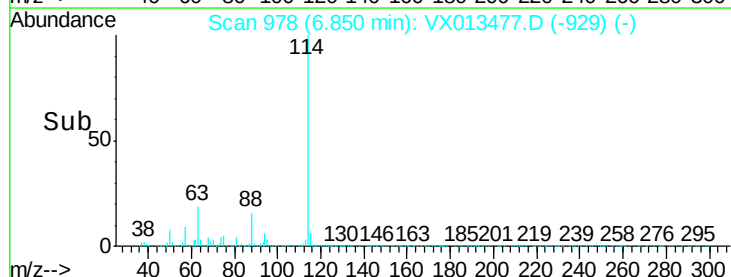
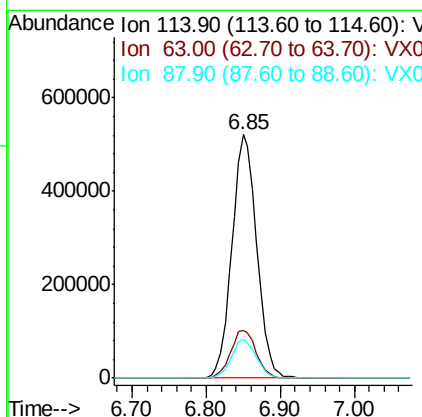
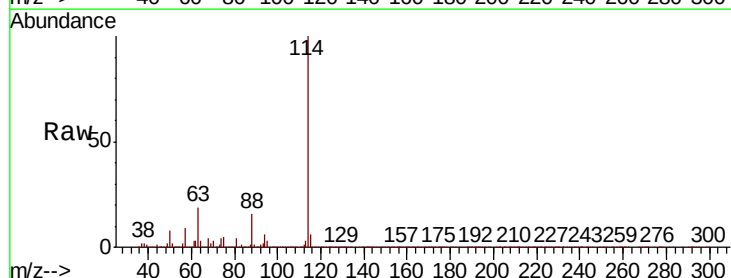
Instrument :  
 MSVOA\_X  
 ClientSampleId :

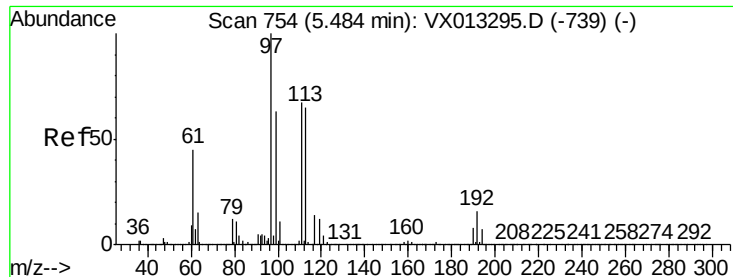
Tot Ion: 65 Resp: 445529  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 104.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX013477.D  
 Acq: 20 Nov 2019 15:12

Tgt Ion: 114 Resp: 1213303  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 38.4  
 88 15.7 0.0 32.2





#35

Dibromofluoromethane

Concen: 48.057 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013477.D

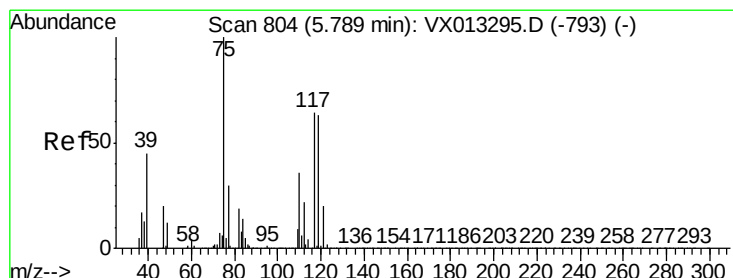
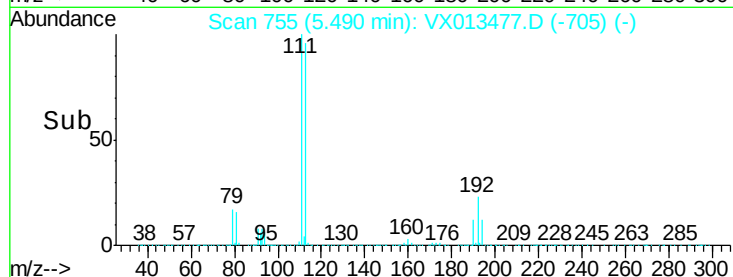
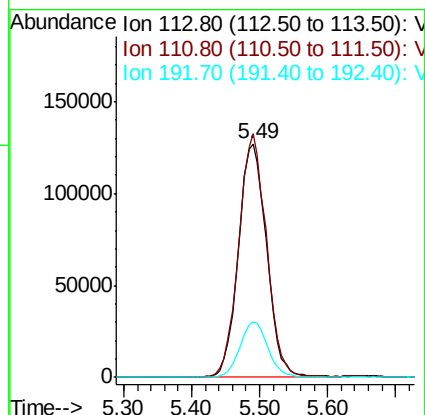
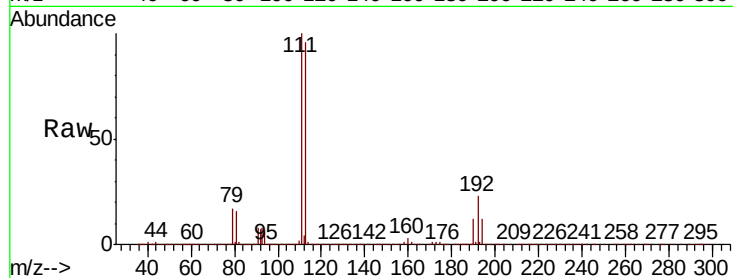
Acq: 20 Nov 2019 15:12

Instrument :

MSVOA\_X

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 113   | Resp: | 365713 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 102.9 | 81.9  | 122.9  |
| 192      | 23.5  | 19.1  | 28.7   |



#36

1,1-Dichloropropene

Concen: 4.734 ug/l

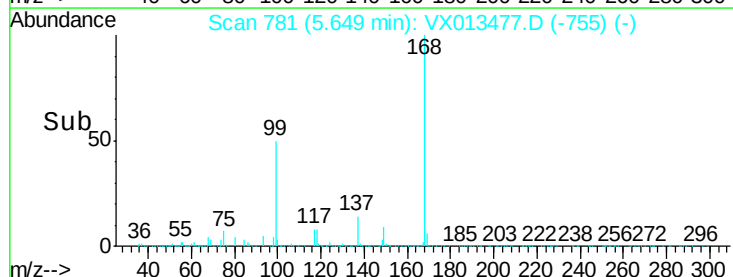
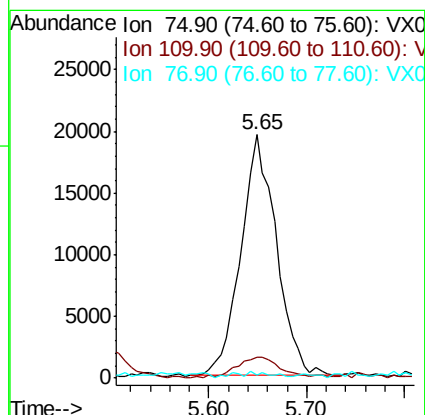
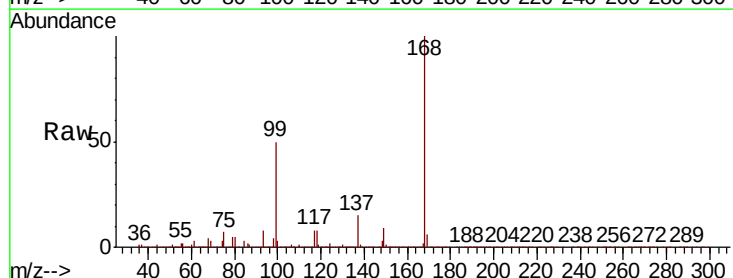
RT: 5.65 min Scan# 781

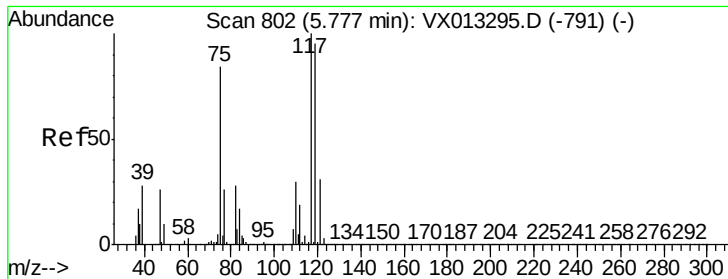
Delta R.T. -0.14 min

Lab File: VX013477.D

Acq: 20 Nov 2019 15:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 49272 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 10.9  | 18.1  | 54.1# |
| 77       | 1.1   | 25.0  | 37.4# |





#38

Carbon Tetrachloride

Concen: 6.381 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013477.D

Acq: 20 Nov 2019 15:12

Instrument :

MSVOA\_X

ClientSampled :

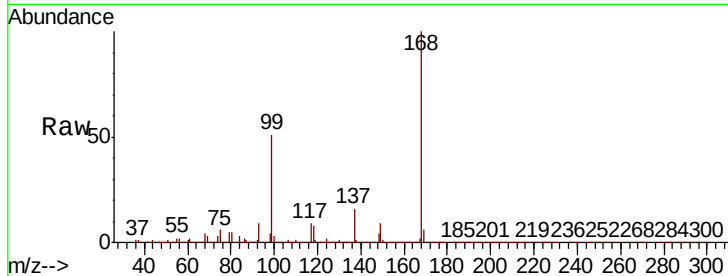
Tot Ion:117 Resp: 64946

Ion Ratio Lower Upper

117 100

119 5.4 76.1 114.1#

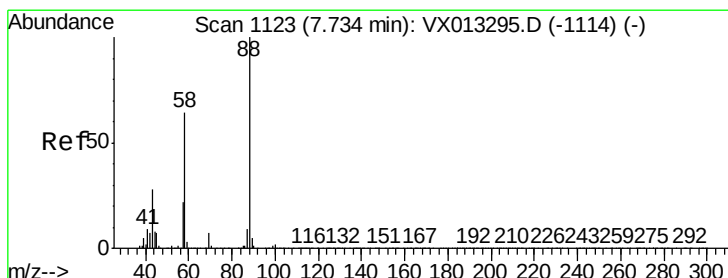
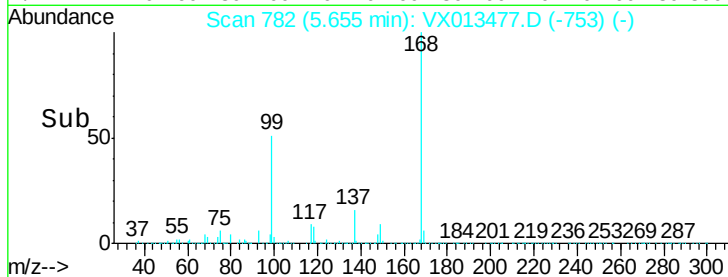
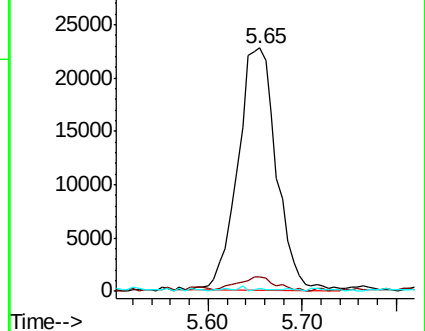
121 0.2 24.6 37.0#



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



#49

1,4-Dioxane

Concen: 0.476 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013477.D

Acq: 20 Nov 2019 15:12

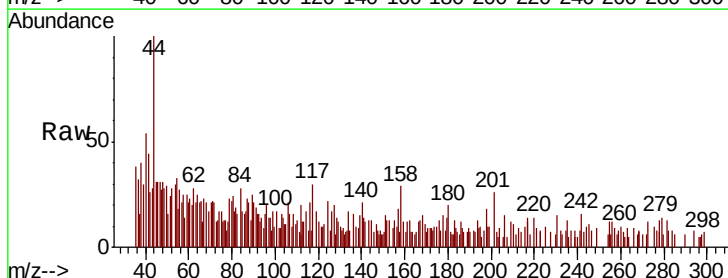
Tgt Ion: 88 Resp: 109

Ion Ratio Lower Upper

88 100

43 704.6 26.6 39.8#

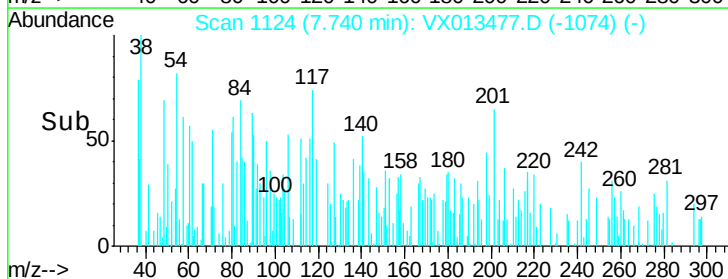
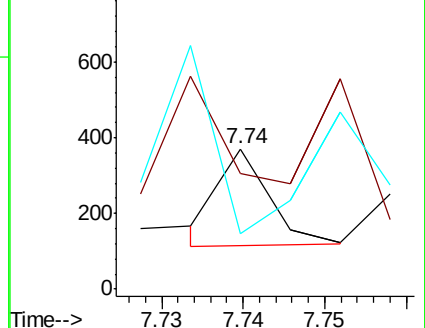
58 253.2 55.0 82.6#



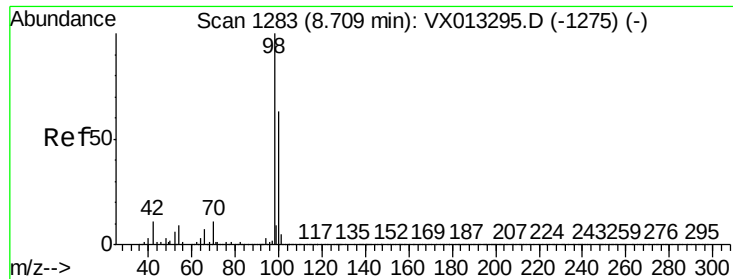
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



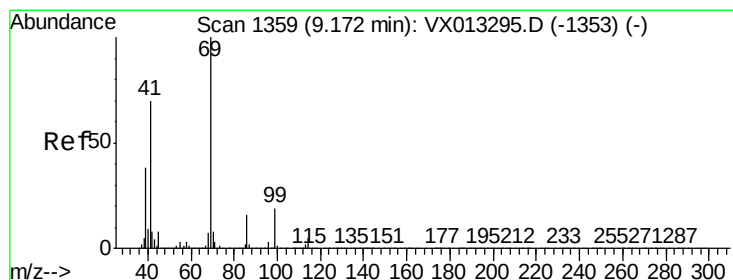
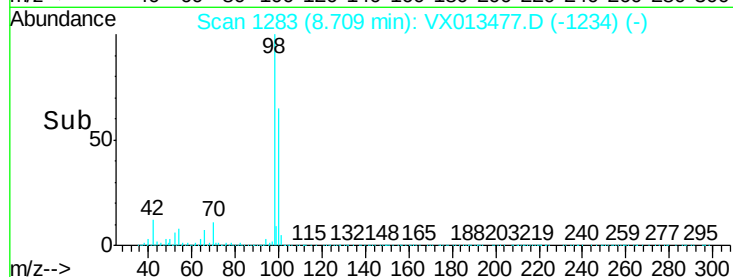
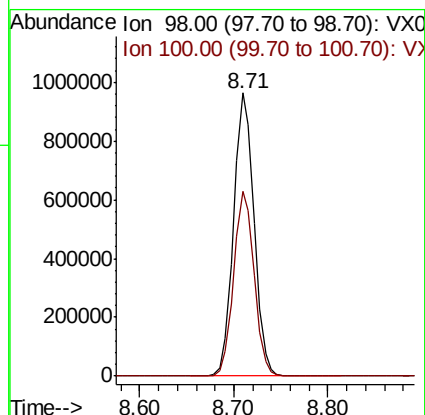
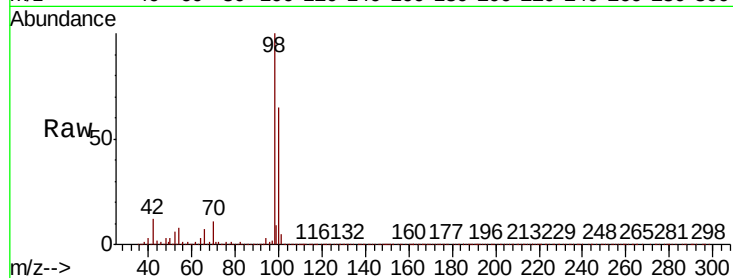




#50  
Toluene-d8  
Concen: 50.595 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX013477.D  
Acq: 20 Nov 2019 15:12

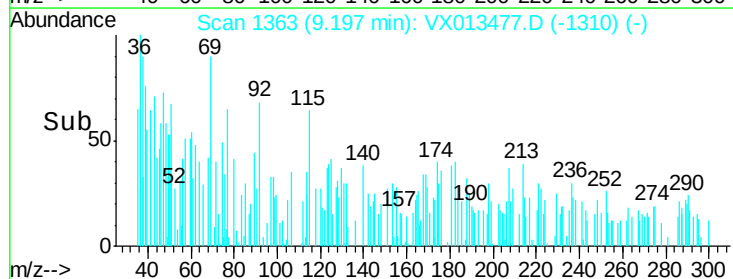
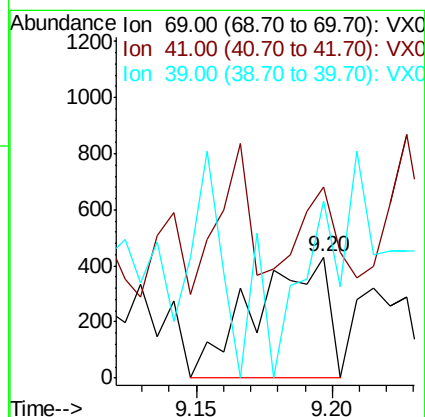
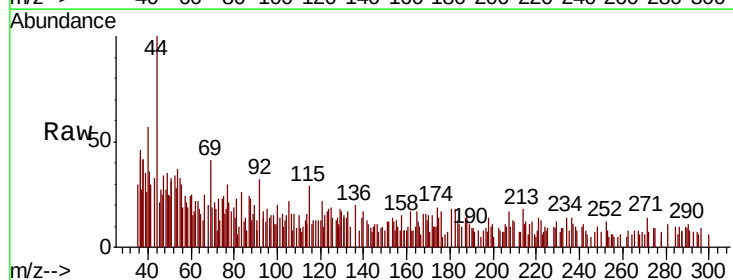
Instrument :  
MSVOA\_X  
ClientSampled :

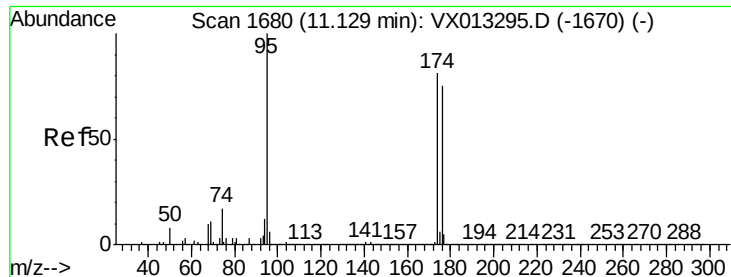
Tot Ion: 98 Resp: 1451509  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.2 78.2



#56  
Ethyl methacrylate  
Concen: 1.618 ug/l  
RT: 9.20 min Scan# 1363  
Delta R.T. 0.02 min  
Lab File: VX013477.D  
Acq: 20 Nov 2019 15:12

Tgt Ion: 69 Resp: 807  
Ion Ratio Lower Upper  
69 100  
41 79.2 56.2 84.2  
39 0.0 31.1 46.7#

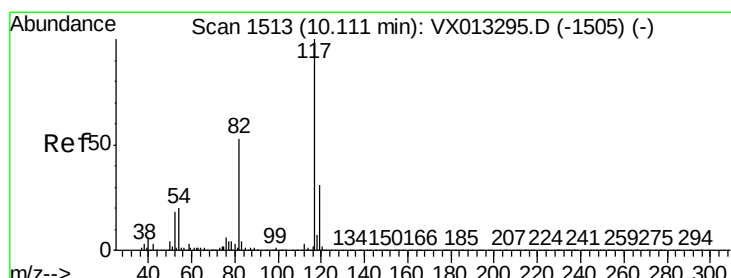
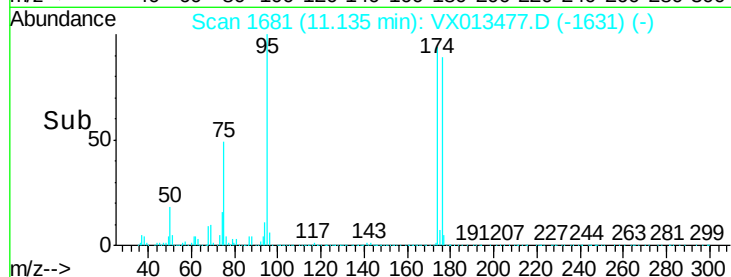
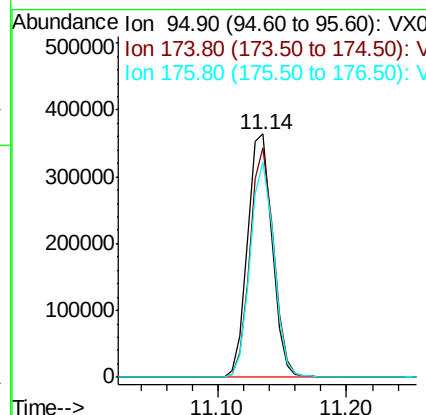
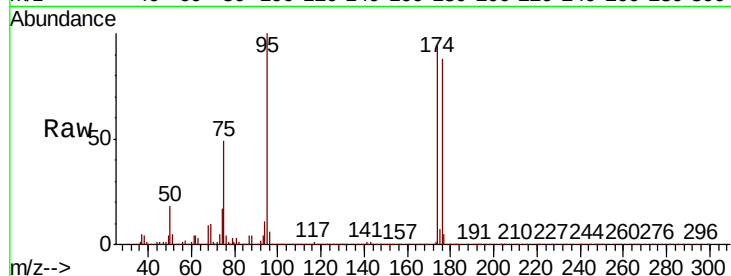




#62  
4-Bromofluorobenzene  
Concen: 46.202 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.01 min  
Lab File: VX013477.D  
Acq: 20 Nov 2019 15:12

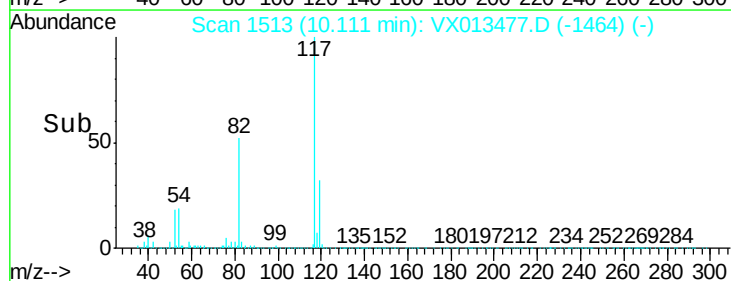
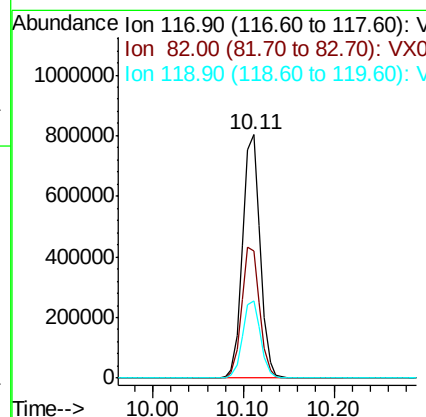
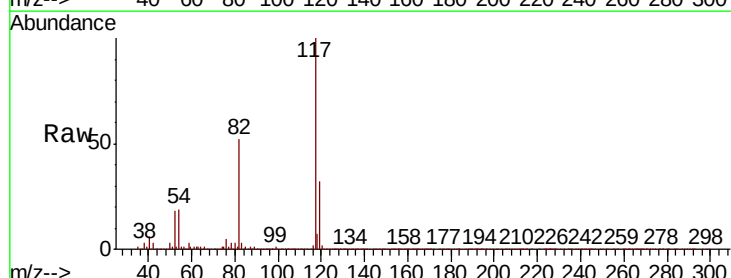
Instrument :  
MSVOA\_X  
ClientSampleId :

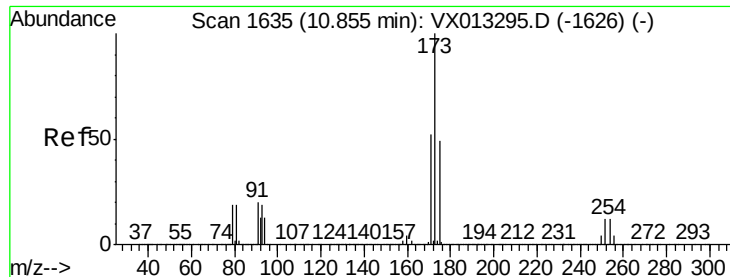
Tot Ion: 95 Resp: 478373  
Ion Ratio Lower Upper  
95 100  
174 91.0 0.0 179.8  
176 85.8 0.0 173.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX013477.D  
Acq: 20 Nov 2019 15:12

Tgt Ion: 117 Resp: 1081361  
Ion Ratio Lower Upper  
117 100  
82 52.1 42.6 64.0  
119 31.6 24.8 37.2





#71

Bromoform

Concen: 3.255 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX013477.D

Acq: 20 Nov 2019 15:12

Instrument :

MSVOA\_X

ClientSampled :

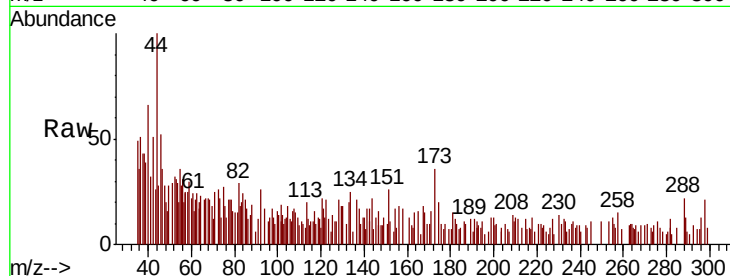
Tot Ion:173 Resp: 417

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

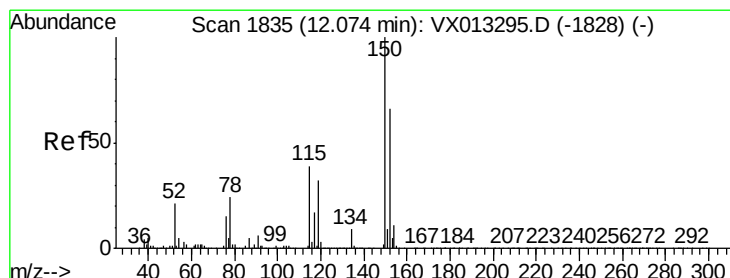
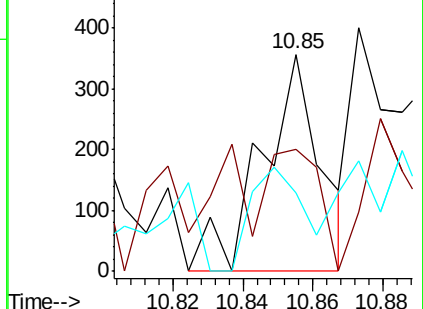
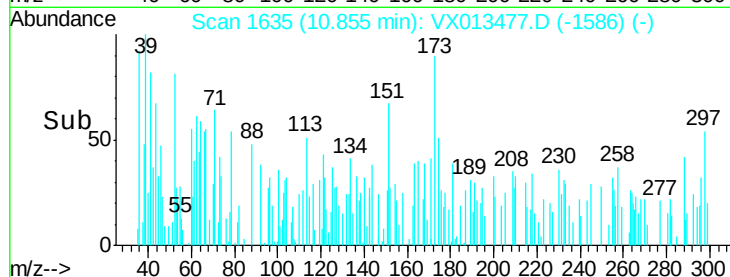
254 42.9 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013477.D

Acq: 20 Nov 2019 15:12

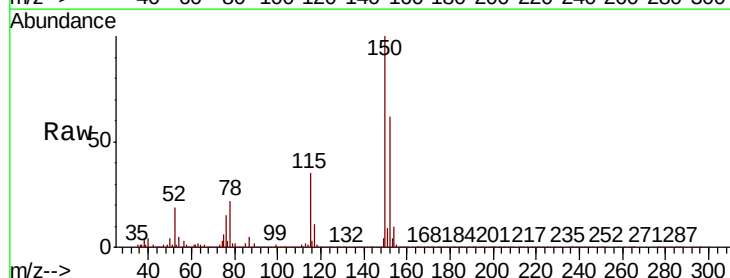
Tgt Ion:152 Resp: 470463

Ion Ratio Lower Upper

152 100

115 55.2 39.5 118.3

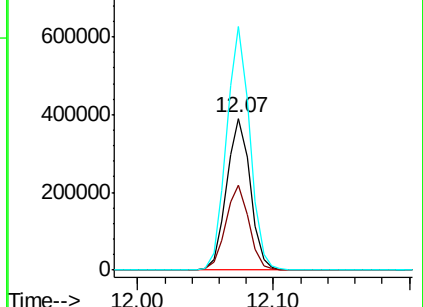
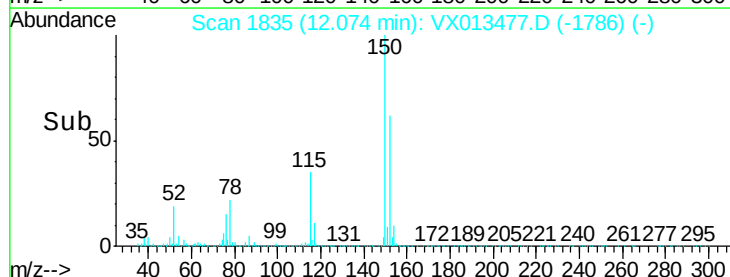
150 158.4 0.0 344.4

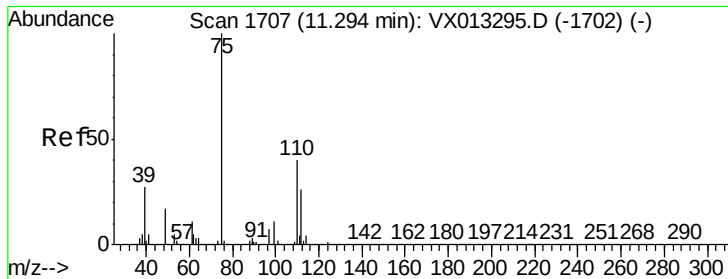


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.898 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013477.D

Acq: 20 Nov 2019 15:12

Instrument :

MSVOA\_X

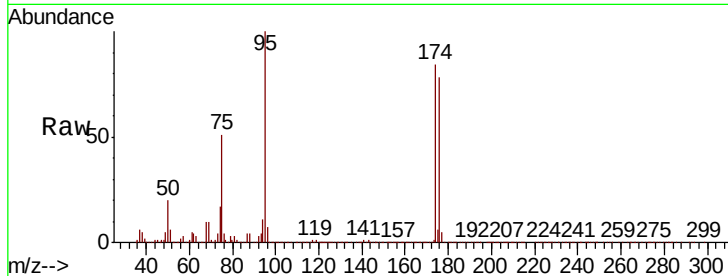
ClientSampleId :

Tot Ion: 75 Resp: 237923

Ion Ratio Lower Upper

75 100

77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

200000

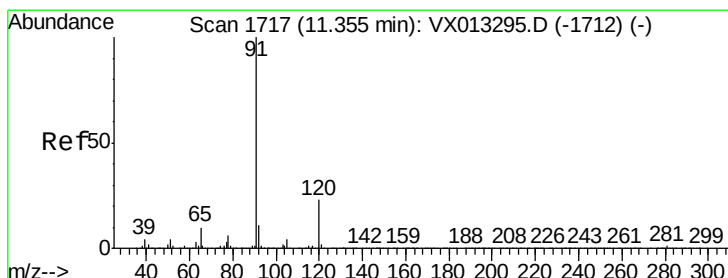
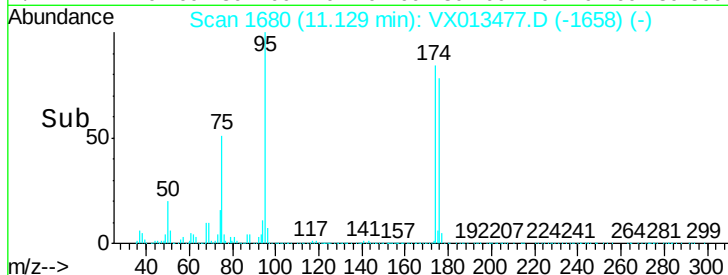
150000

100000

50000

0

Time-->



#78

n-propylbenzene

Concen: 0.265 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX013477.D

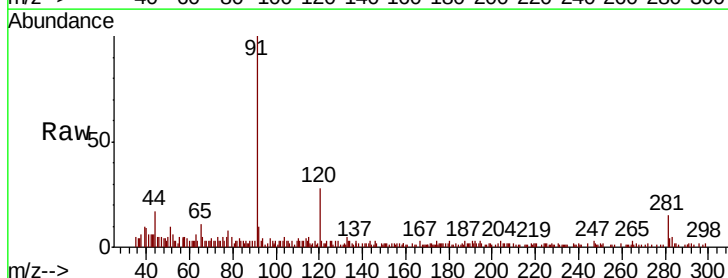
Acq: 20 Nov 2019 15:12

Tgt Ion: 91 Resp: 9212

Ion Ratio Lower Upper

91 100

120 28.0 11.6 34.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

8000

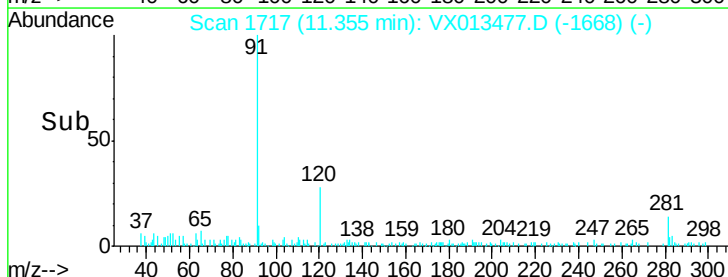
6000

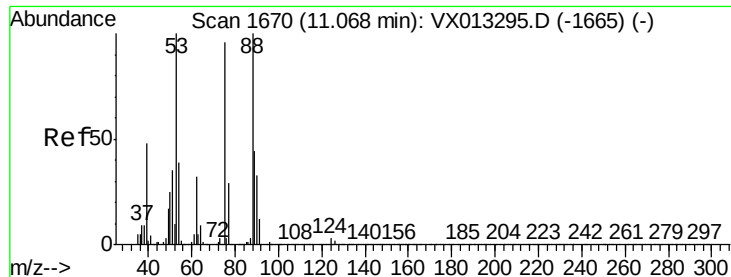
4000

2000

0

Time-->

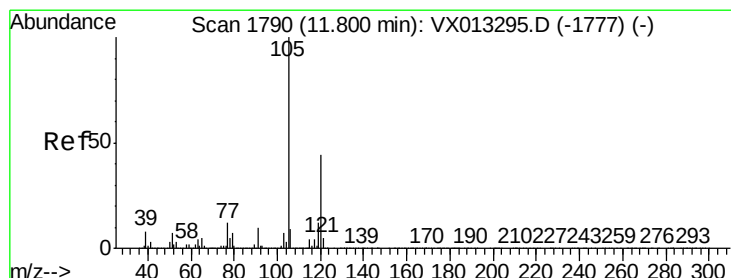
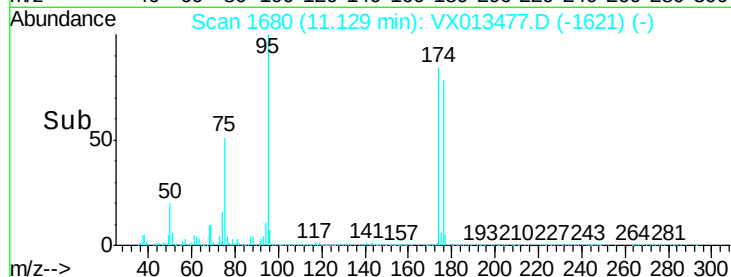
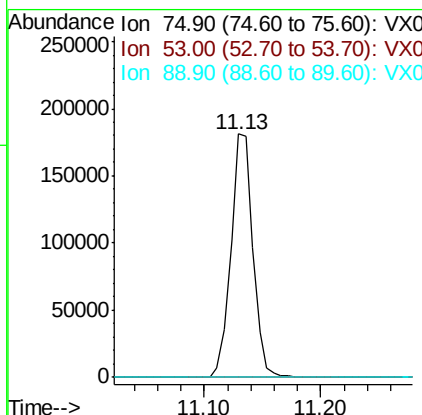
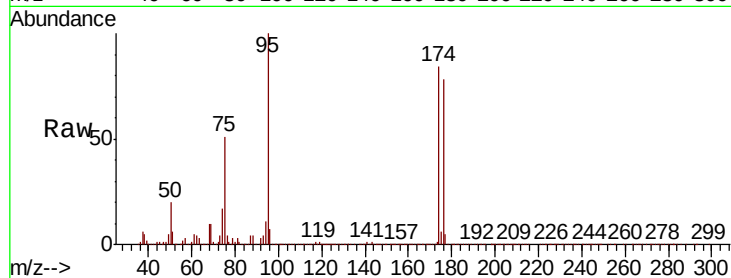




#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.088 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. 0.06 min  
Lab File: VX013477.D  
Acq: 20 Nov 2019 15:12

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 75 Resp: 237923  
Ion Ratio Lower Upper  
75 100  
53 0.1 81.0 121.6#  
89 0.0 36.0 54.0#



#84  
1,2,4-Trimethylbenzene  
Concen: 0.723 ug/l  
RT: 11.80 min Scan# 1790  
Delta R.T. 0.00 min  
Lab File: VX013477.D  
Acq: 20 Nov 2019 15:12

Tgt Ion: 105 Resp: 18839  
Ion Ratio Lower Upper  
105 100  
120 50.5 22.7 68.1

