

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031419\  
 Data File : VX008083.D  
 Acq On : 14 Mar 2019 21:33  
 Operator : JC/SP  
 Sample : K1829-07  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CPA-CPMW02D-M20W2-030419

Quant Time: Mar 15 04:28:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X031419W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 15 03:56:35 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 321059   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 493242   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 466587   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 230159   | 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   | 159899   | 49.37  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.74%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 155550   | 49.73  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.46%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 590927   | 49.67  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.34%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 219857   | 51.59  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.18% |          |

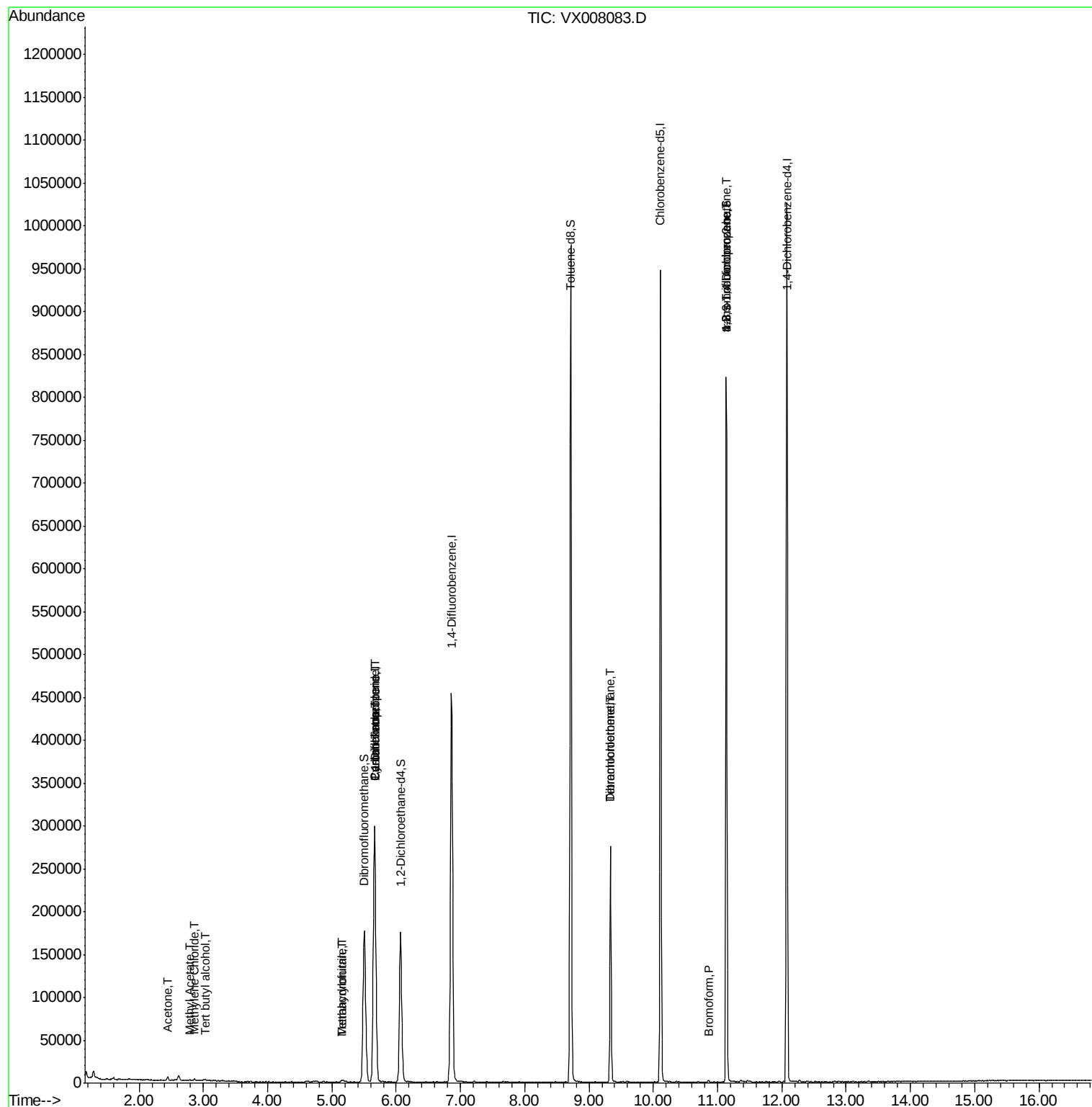
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 376      | Below Cal |        | 90     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 1213     | 1.939     | ug/l # | 73     |
| 16) Acetone                    | 2.45  | 43   | 4483     | 2.932     | ug/l   | 93     |
| 18) Methyl Acetate             | 2.78  | 43   | 850      | 0.257     | ug/l # | 85     |
| 20) Methylene Chloride         | 2.86  | 84   | 914      | 0.335     | ug/l # | 81     |
| 29) Tetrahydrofuran            | 5.16  | 42   | 1843     | 1.258     | ug/l # | 80     |
| 31) Cyclohexane                | 5.66  | 56   | 4757     | 1.027     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 18083    | 4.456     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 26365    | 6.750     | ug/l # | 16     |
| 41) Methacrylonitrile          | 5.16  | 41   | 969      | 0.382     | ug/l # | 40     |
| 60) Dibromochloromethane       | 9.34  | 129  | 51014    | 15.384    | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.34  | 164  | 57241    | 15.141    | ug/l   | 99     |
| 71) Bromoform                  | 10.86 | 173  | 698      | 0.257     | ug/l # | 29     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 96667    | 24.184    | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 96667    | 68.818    | ug/l # | 11     |

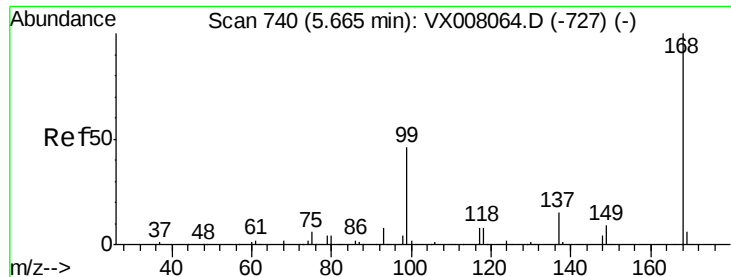
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031419\  
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CPA-CPMW02D-M20W2-030419

Quant Time: Mar 15 04:28:44 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X031419W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 15 03:56:35 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008083.D

Acq: 14 Mar 2019 21:33

Instrument :

MSVOA\_X

ClientSampleId :

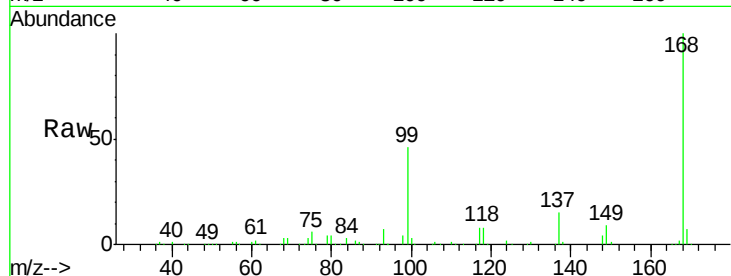
CPA-CPMW02D-M20W2-030419

Tot Ion:168 Resp: 321059

Ion Ratio Lower Upper

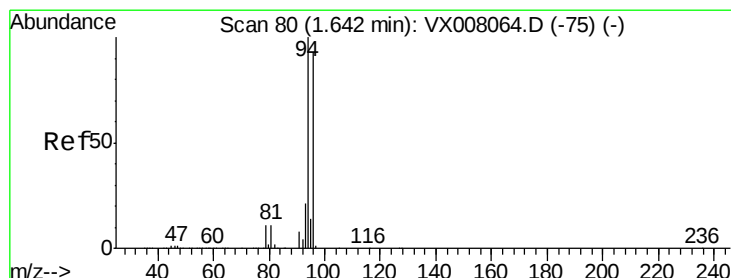
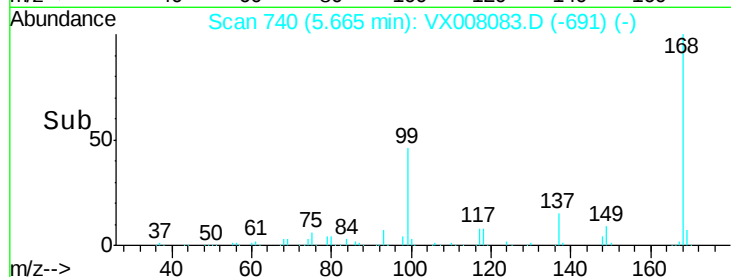
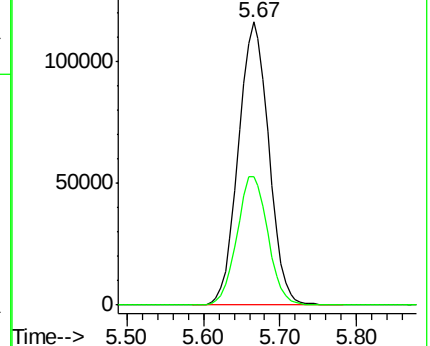
168 100

99 45.6 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008083.D

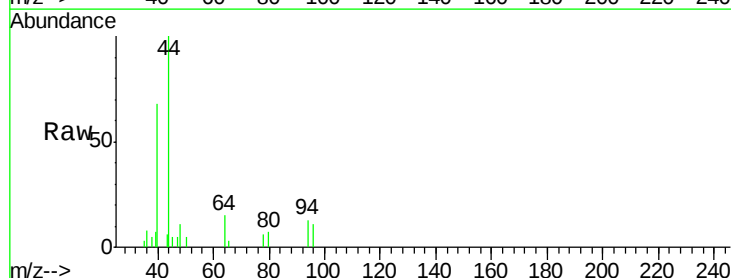
Acq: 14 Mar 2019 21:33

Tgt Ion: 94 Resp: 376

Ion Ratio Lower Upper

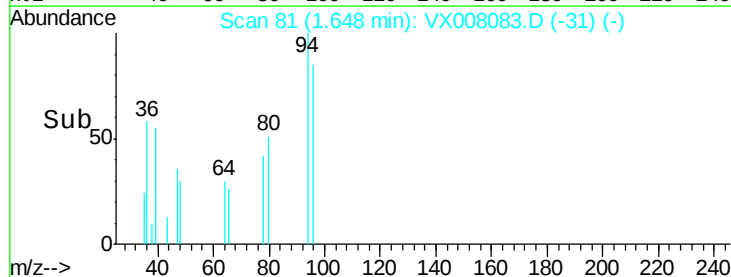
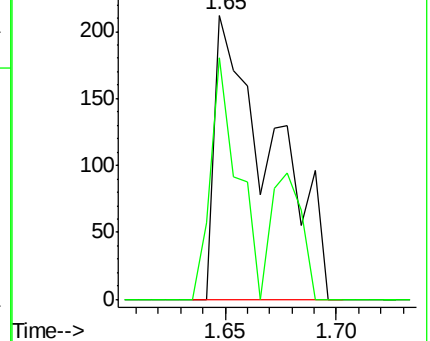
94 100

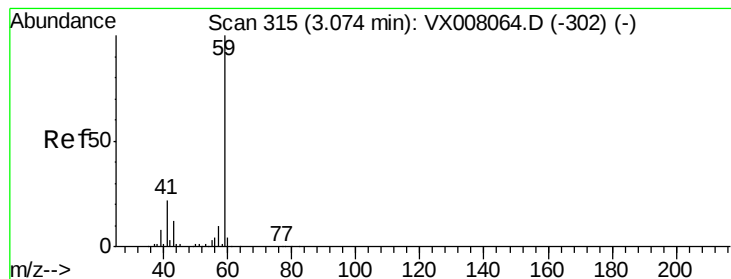
96 84.9 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



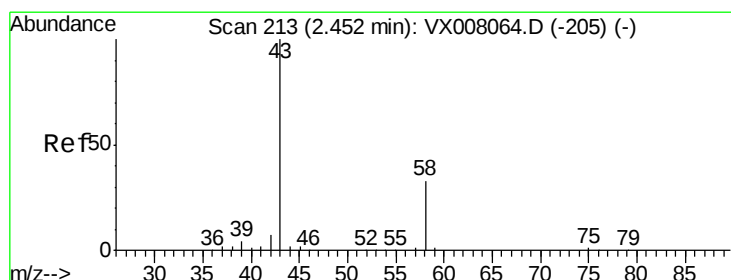
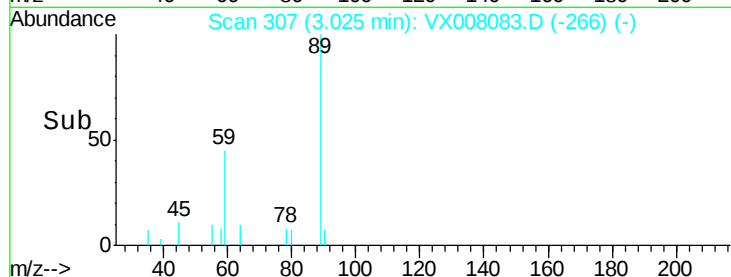
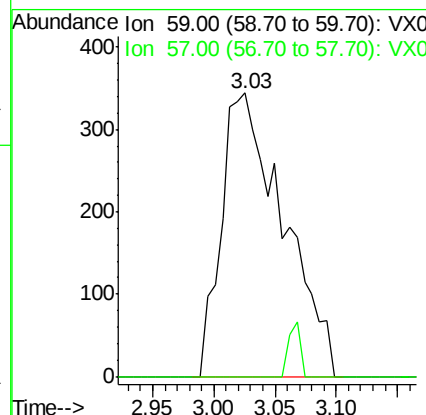
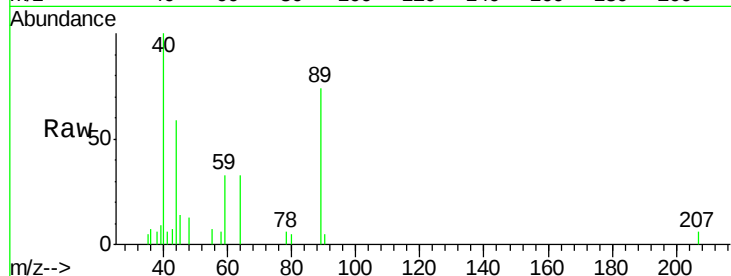


#11

Tert butyl alcohol  
Concen: 1.939 ug/l  
RT: 3.03 min Scan# 307  
Delta R.T. -0.05 min  
Lab File: VX008083.D  
Acq: 14 Mar 2019 21:33

Instrument :  
MSVOA\_X  
ClientSampleId :  
CPA-CPMW02D-M20W2-030419

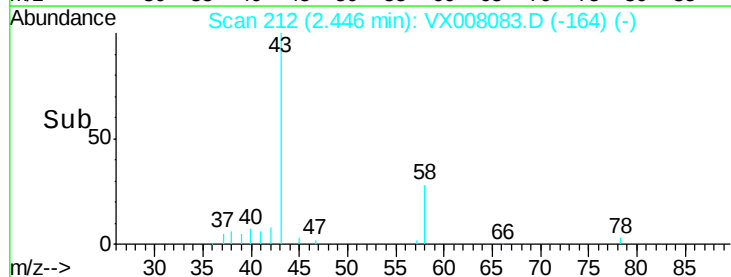
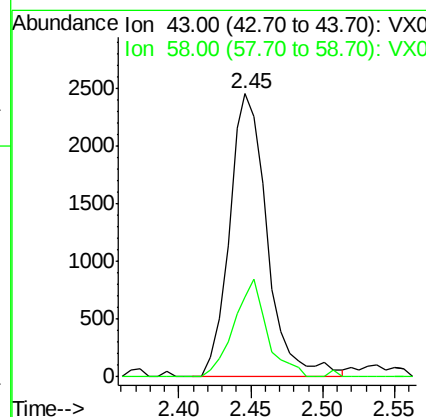
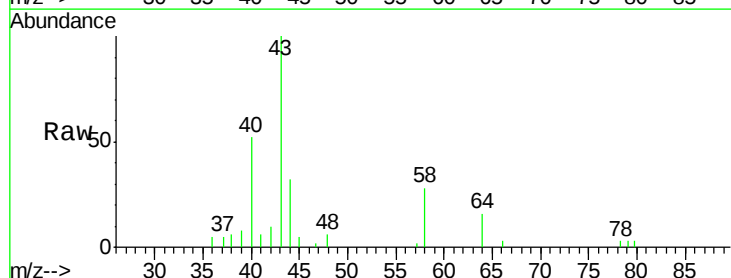
Tot Ion: 59 Resp: 1213  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#

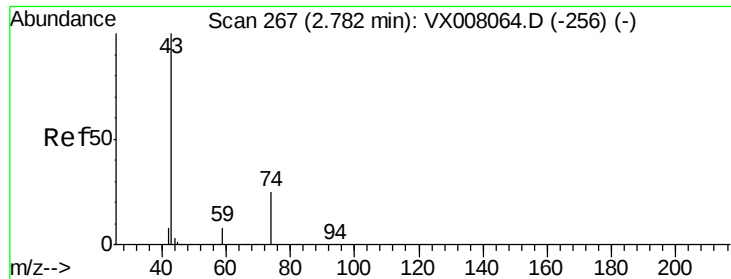


#16

Acetone  
Concen: 2.932 ug/l  
RT: 2.45 min Scan# 212  
Delta R.T. -0.01 min  
Lab File: VX008083.D  
Acq: 14 Mar 2019 21:33

Tgt Ion: 43 Resp: 4483  
Ion Ratio Lower Upper  
43 100  
58 28.2 25.5 38.3

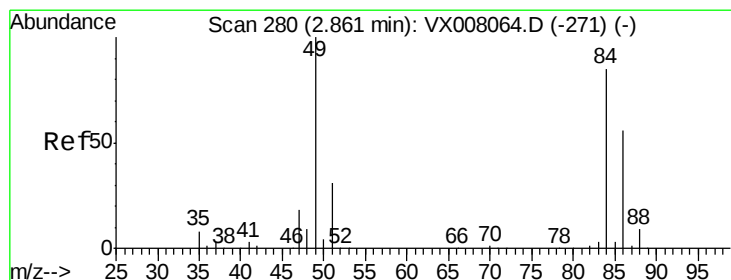
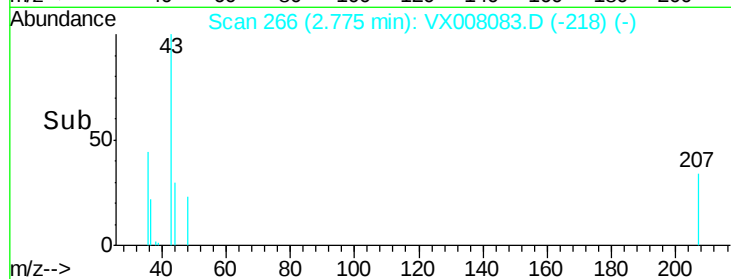
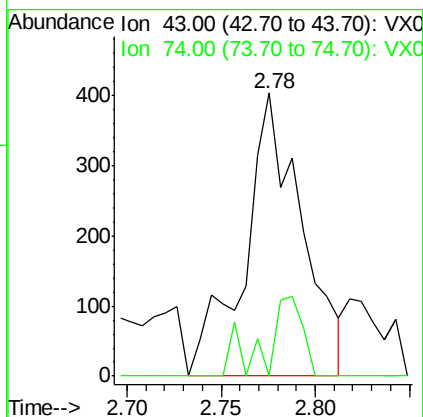
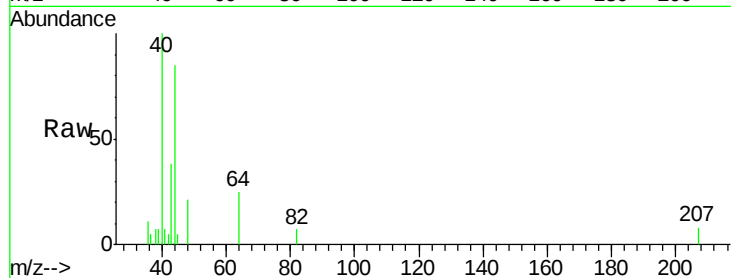




#18  
Methyl Acetate  
Concen: 0.257 ug/l  
RT: 2.78 min Scan# 266  
Delta R.T. -0.01 min  
Lab File: VX008083.D  
Acq: 14 Mar 2019 21:33

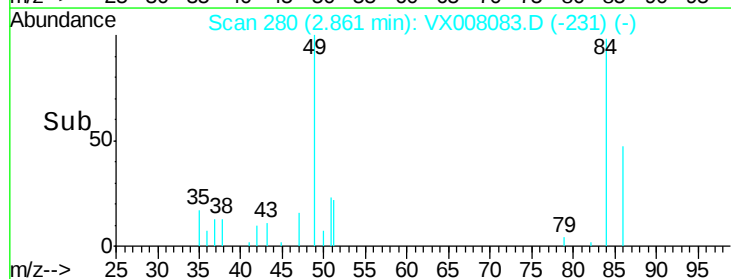
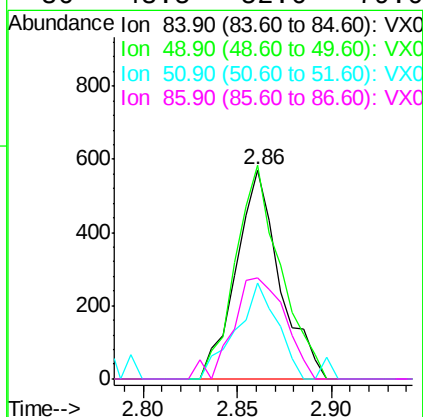
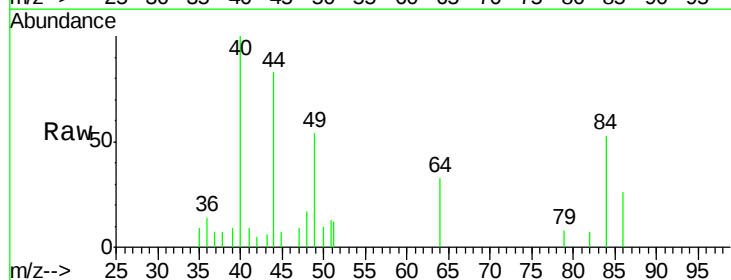
Instrument :  
MSVOA\_X  
ClientSampleId :  
CPA-CPMW02D-M20W2-030419

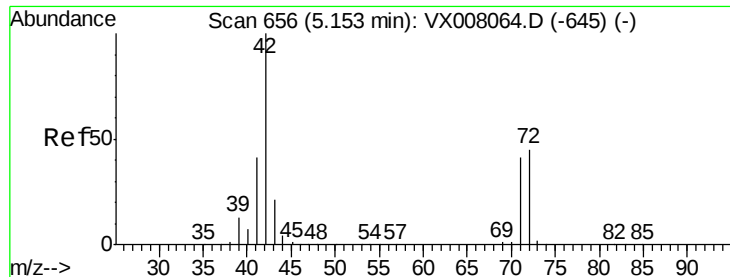
Tot Ion: 43 Resp: 850  
Ion Ratio Lower Upper  
43 100  
74 14.8 17.8 26.6#



#20  
Methylene Chloride  
Concen: 0.335 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. -0.00 min  
Lab File: VX008083.D  
Acq: 14 Mar 2019 21:33

Tgt Ion: 84 Resp: 914  
Ion Ratio Lower Upper  
84 100  
49 102.3 99.3 148.9  
51 45.9 31.3 46.9  
86 48.5 52.6 79.0#

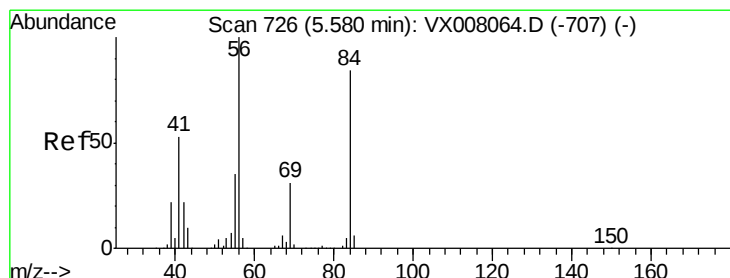
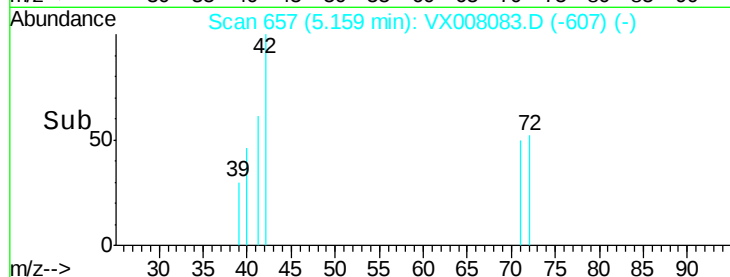
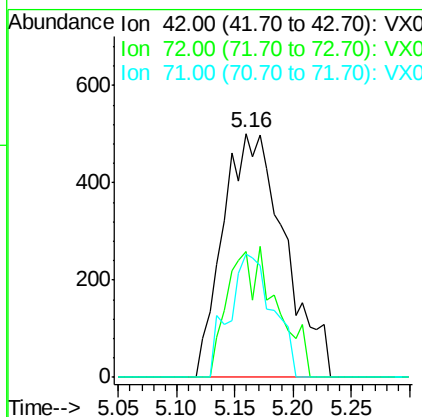
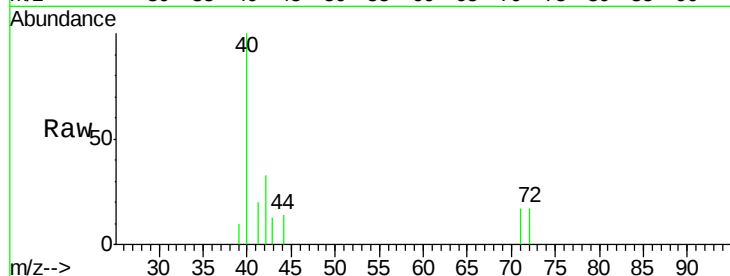




#29  
Tetrahydrofuran  
Concen: 1.258 ug/l  
RT: 5.16 min Scan# 657  
Delta R.T. 0.01 min  
Lab File: VX008083.D  
Acq: 14 Mar 2019 21:33

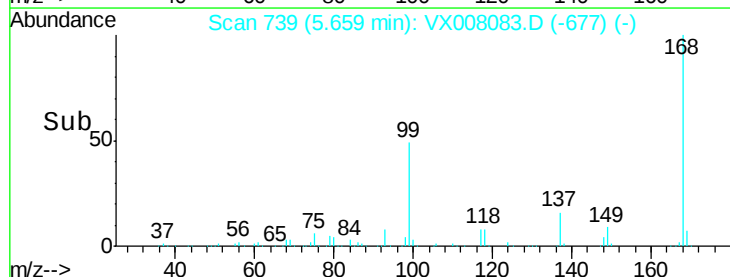
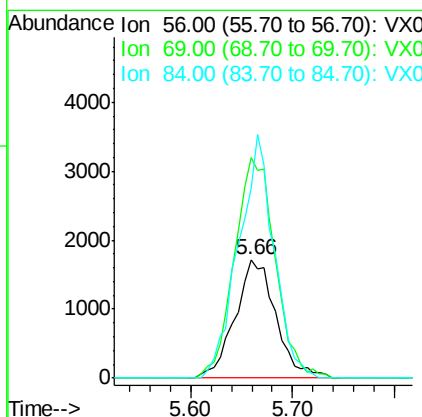
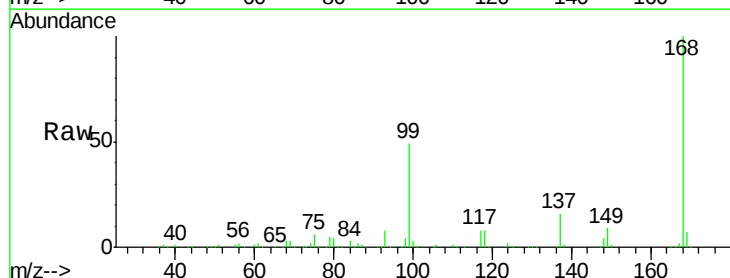
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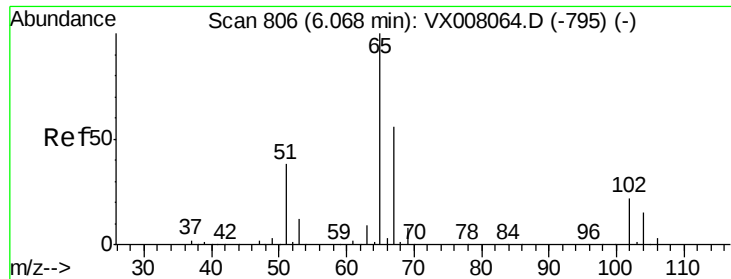
Tot Ion: 42 Resp: 1843  
Ion Ratio Lower Upper  
42 100  
72 21.8 33.8 50.6#  
71 35.8 31.5 47.3



#31  
Cyclohexane  
Concen: 1.027 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.08 min  
Lab File: VX008083.D  
Acq: 14 Mar 2019 21:33

Tgt Ion: 56 Resp: 4757  
Ion Ratio Lower Upper  
56 100  
69 186.5 24.0 36.0#  
84 160.3 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 49.372 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX008083.D

Acq: 14 Mar 2019 21:33

Instrument :

MSVOA\_X

ClientSampleId :

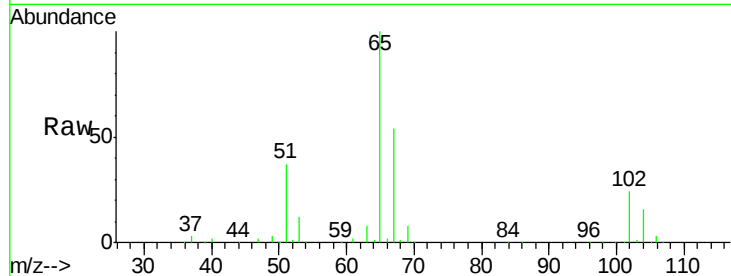
CPA-CPMW02D-M20W2-030419

Tot Ion: 65 Resp: 159899

Ion Ratio Lower Upper

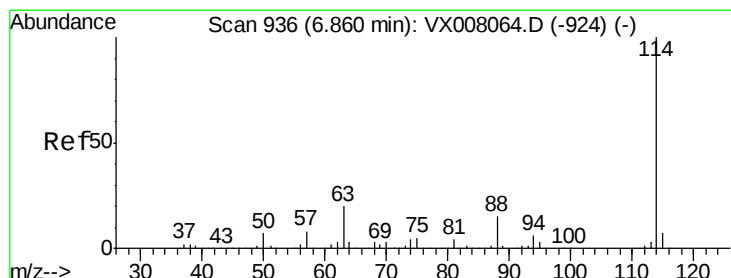
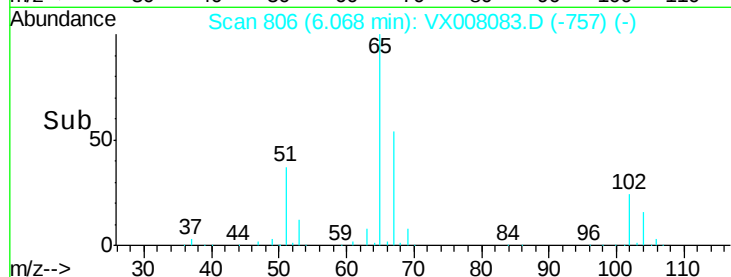
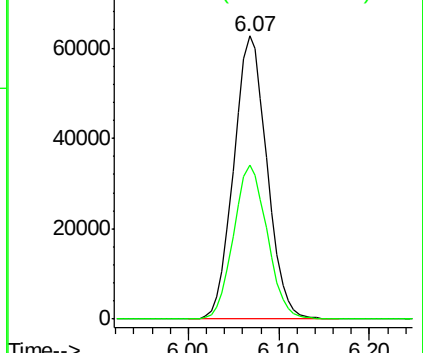
65 100

67 55.0 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008083.D

Acq: 14 Mar 2019 21:33

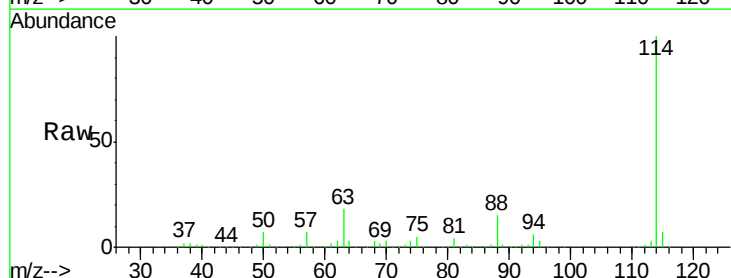
Tgt Ion: 114 Resp: 493242

Ion Ratio Lower Upper

114 100

63 18.2 0.0 39.8

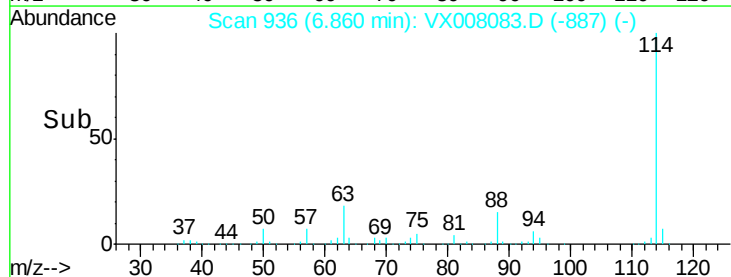
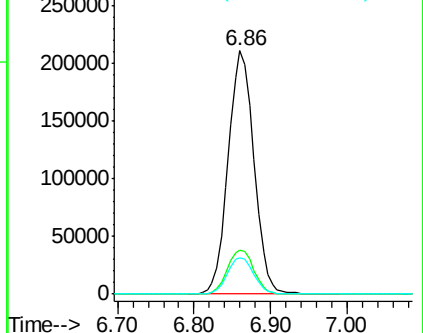
88 15.0 0.0 31.4

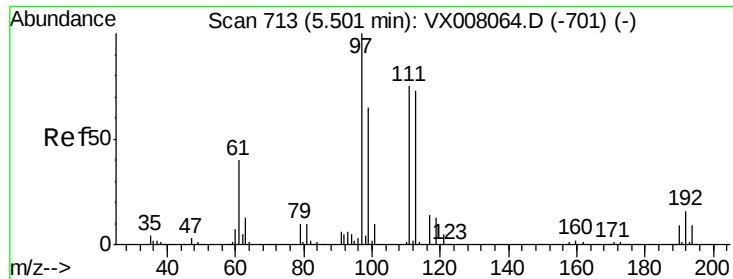


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

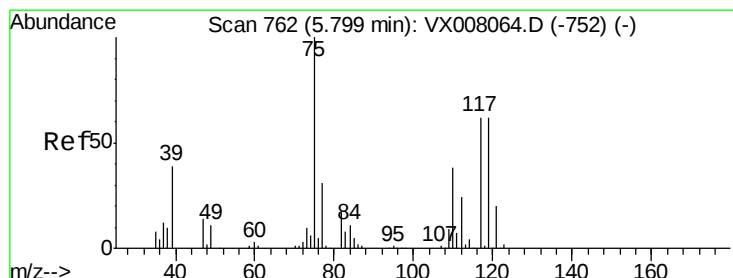
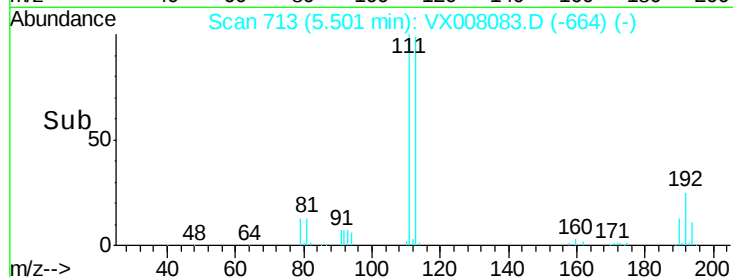
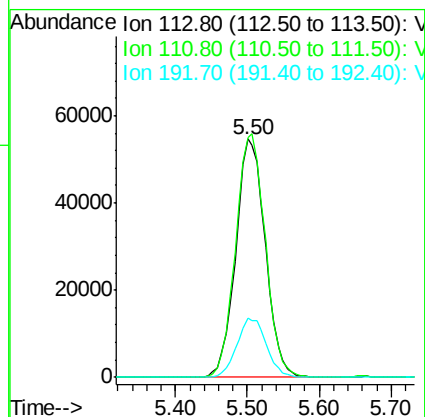
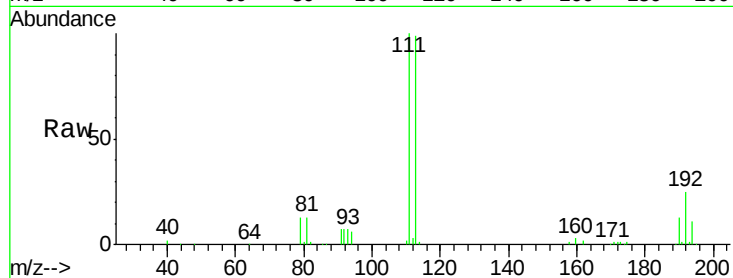




#35  
 Dibromofluoromethane  
 Concen: 49.730 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX008083.D  
 Acq: 14 Mar 2019 21:33

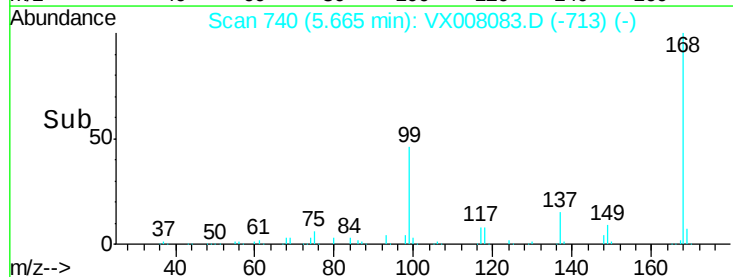
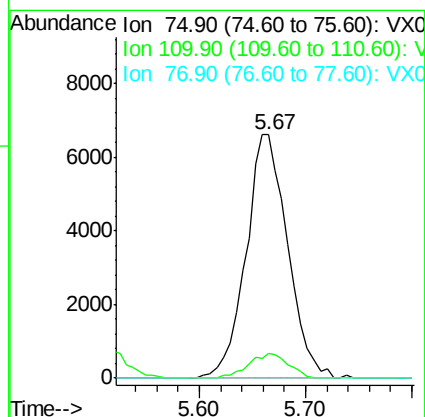
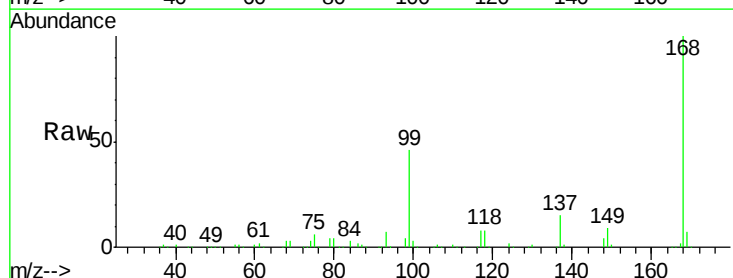
Instrument :  
 MSVOA\_X  
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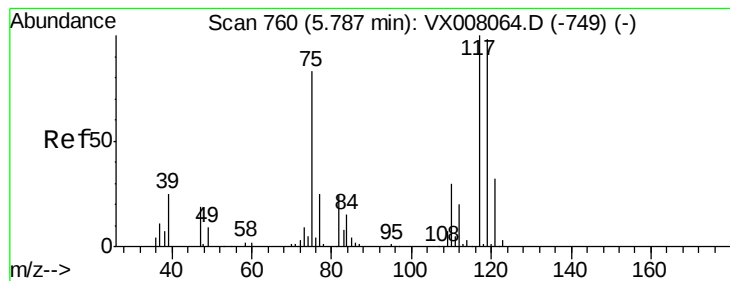
Tot Ion:113 Resp: 155550  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 81.4 122.0  
 192 24.8 19.4 29.0



#36  
 1,1-Dichloropropene  
 Concen: 4.456 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX008083.D  
 Acq: 14 Mar 2019 21:33

Tgt Ion: 75 Resp: 18083  
 Ion Ratio Lower Upper  
 75 100  
 110 9.8 18.4 55.0#  
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.750 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008083.D

Acq: 14 Mar 2019 21:33

Instrument :

MSVOA\_X

ClientSampleId :

CPA-CPMW02D-M20W2-030419

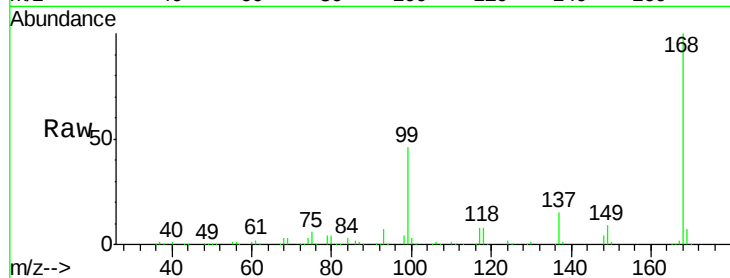
Tot Ion:117 Resp: 26365

Ion Ratio Lower Upper

117 100

119 5.3 76.2 114.2#

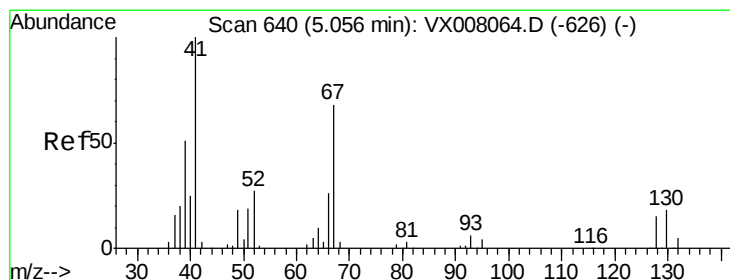
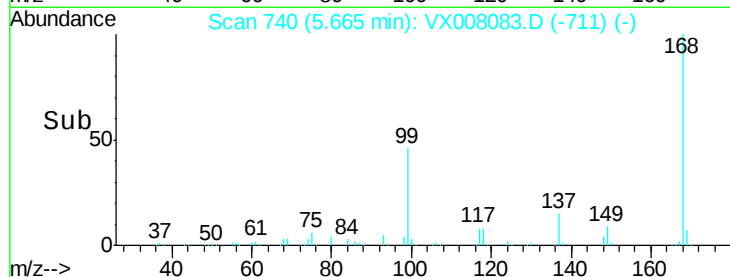
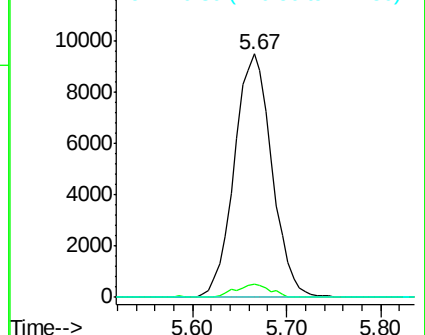
121 0.0 24.6 36.8#



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



#41

Methacrylonitrile

Concen: 0.382 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.10 min

Lab File: VX008083.D

Acq: 14 Mar 2019 21:33

Tgt Ion: 41 Resp: 969

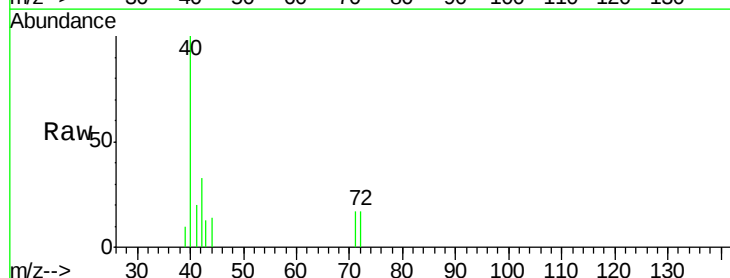
Ion Ratio Lower Upper

41 100

39 29.8 41.6 62.4#

67 0.0 55.8 83.6#

52 0.0 21.7 32.5#

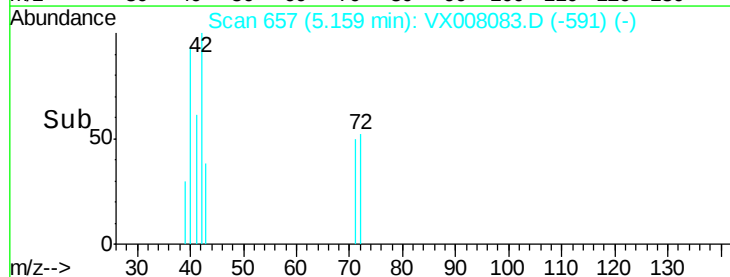
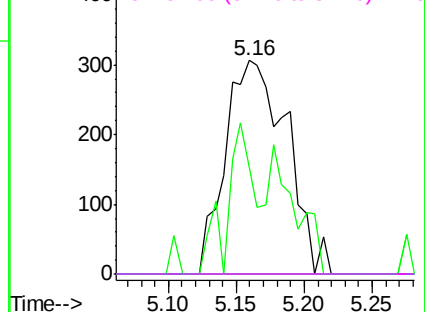


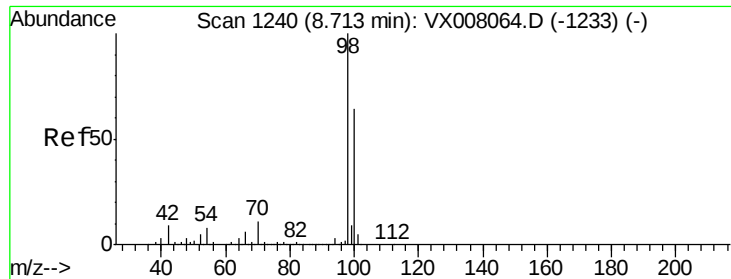
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

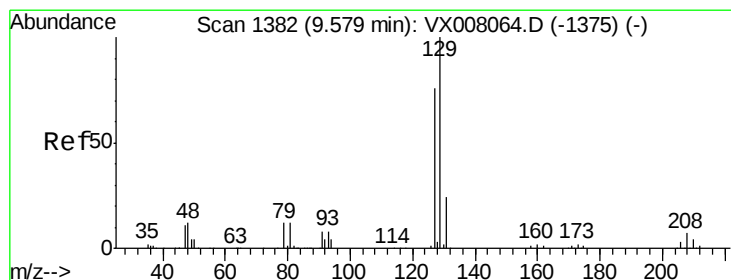
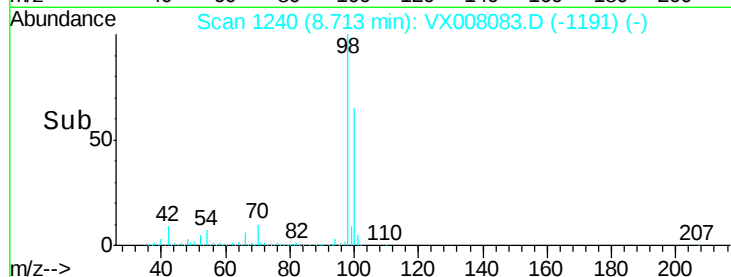
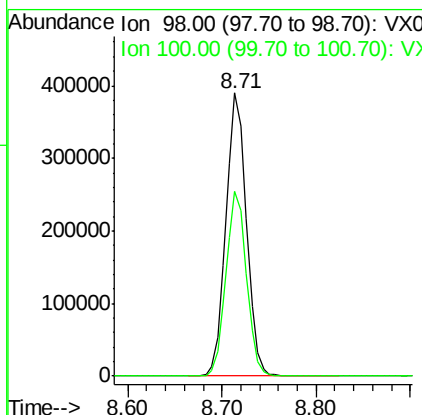
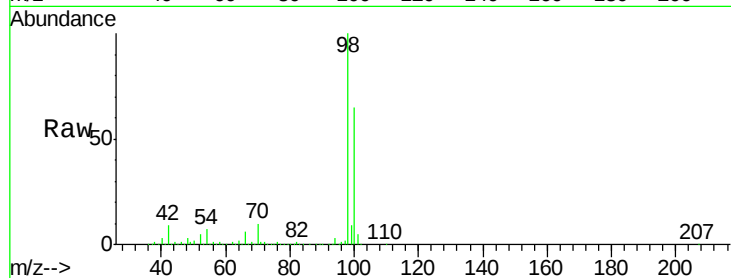




#50  
Toluene-d8  
Concen: 49.673 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX008083.D  
Acq: 14 Mar 2019 21:33

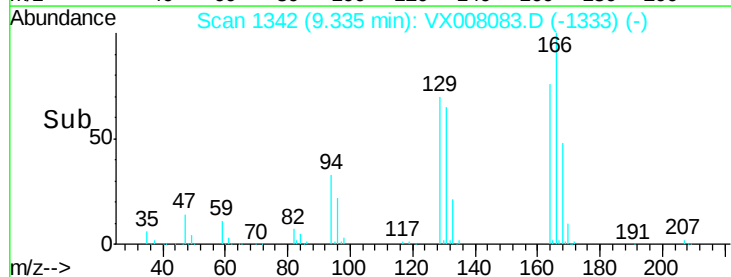
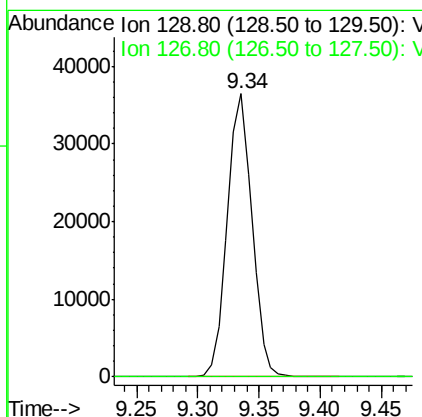
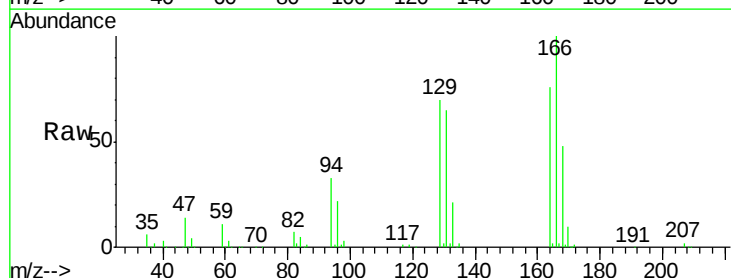
Instrument :  
MSVOA\_X  
ClientSampleId :  
CPA-CPMW02D-M20W2-030419

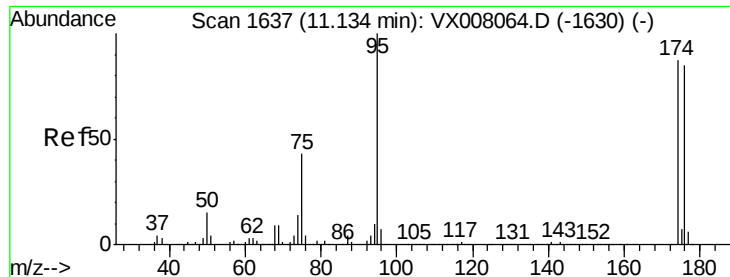
Tot Ion: 98 Resp: 590927  
Ion Ratio Lower Upper  
98 100  
100 65.4 51.7 77.5



#60  
Dibromochloromethane  
Concen: 15.384 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. -0.24 min  
Lab File: VX008083.D  
Acq: 14 Mar 2019 21:33

Tgt Ion: 129 Resp: 51014  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.3 114.8#





#62

4-Bromofluorobenzene

Concen: 51.590 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008083.D

Acq: 14 Mar 2019 21:33

Instrument :

MSVOA\_X

ClientSampleId :

CPA-CPMW02D-M20W2-030419

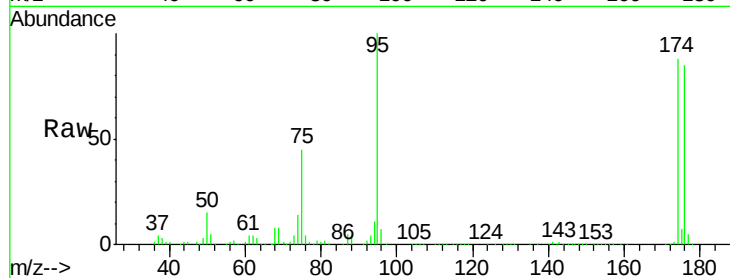
Tot Ion: 95 Resp: 219857

Ion Ratio Lower Upper

95 100

174 94.0 0.0 182.8

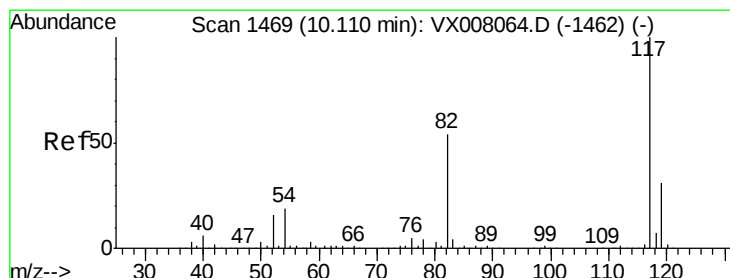
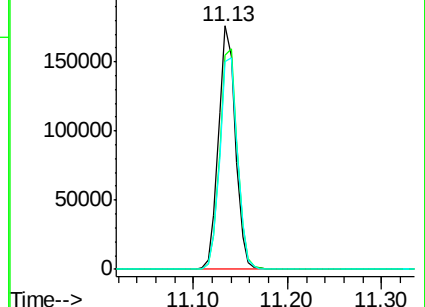
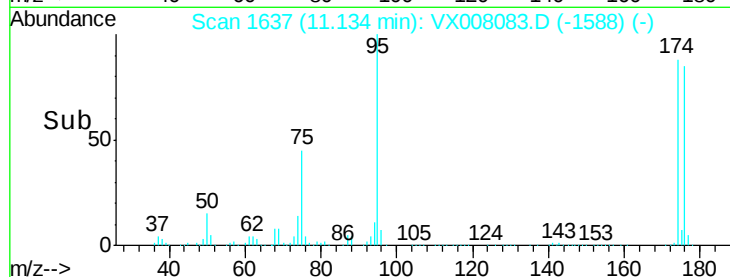
176 91.3 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX008083.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX008083.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX008083.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008083.D

Acq: 14 Mar 2019 21:33

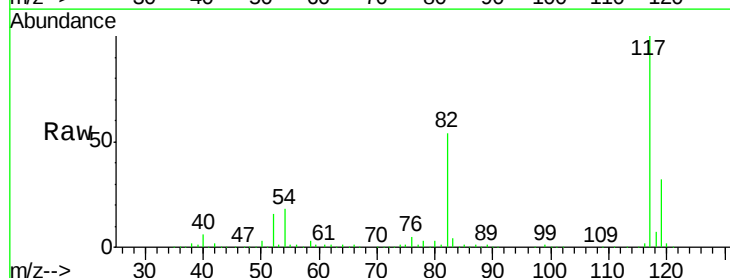
Tgt Ion: 117 Resp: 466587

Ion Ratio Lower Upper

117 100

82 53.6 44.3 66.5

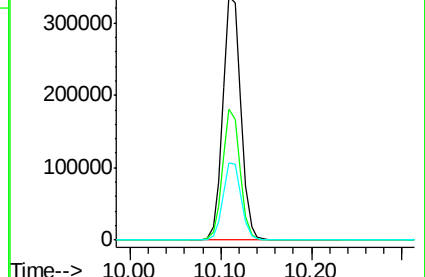
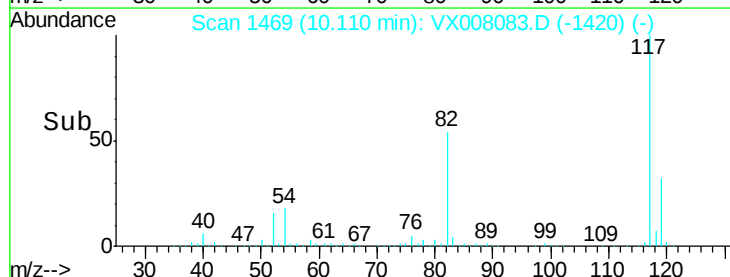
119 31.8 25.3 37.9

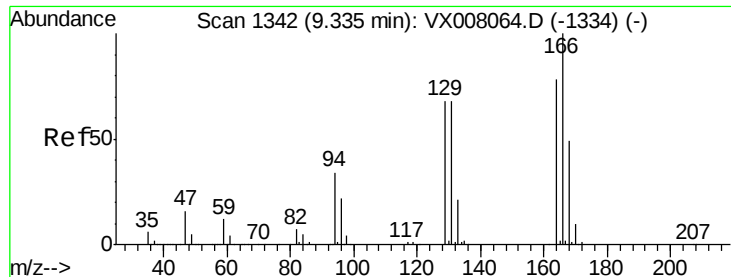


Abundance Ion 116.90 (116.60 to 117.60): VX008083.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX008083.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX008083.D (-1420) (-)





#64

Tetrachloroethene

Concen: 15.141 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX008083.D

Acq: 14 Mar 2019 21:33

Instrument :

MSVOA\_X

ClientSampleId :

CPA-CPMW02D-M20W2-030419

Tot Ion:164 Resp: 57241

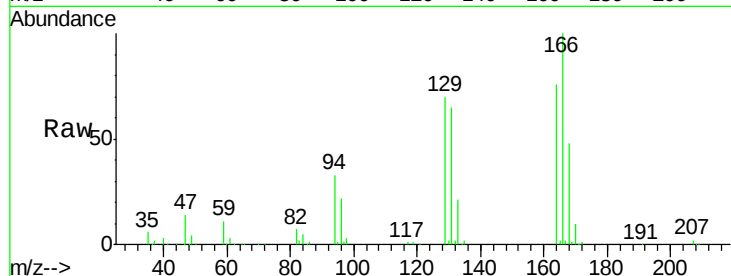
Ion Ratio Lower Upper

164 100

166 130.9 103.4 155.0

129 91.0 72.2 108.4

131 85.5 69.4 104.2

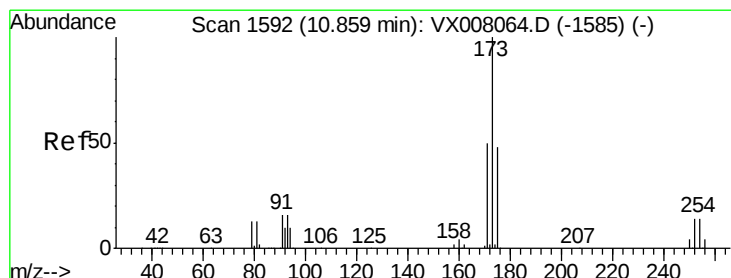
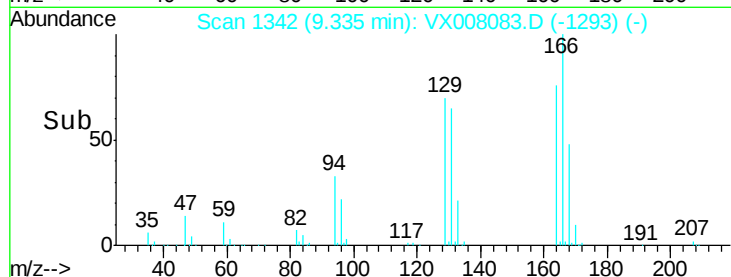
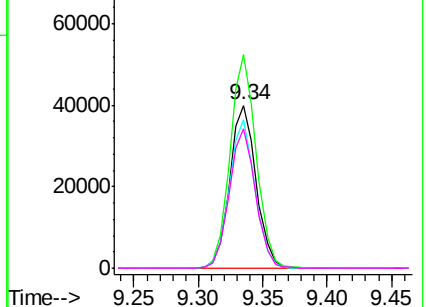


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 0.257 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. -0.00 min

Lab File: VX008083.D

Acq: 14 Mar 2019 21:33

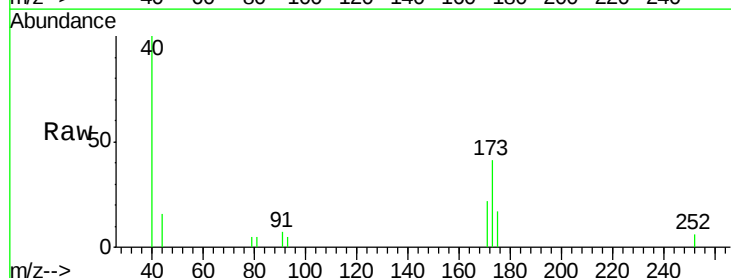
Tgt Ion:173 Resp: 698

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

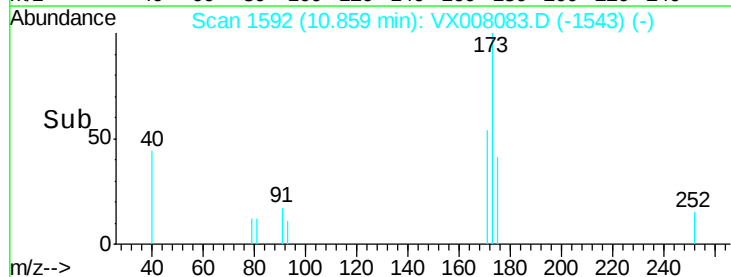
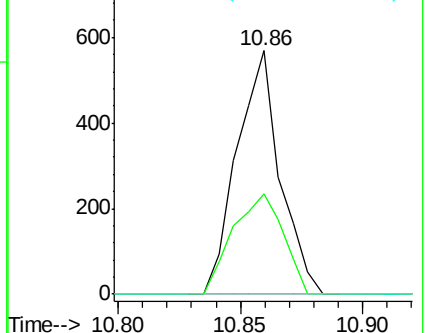
254 0.0 0.1 0.1#

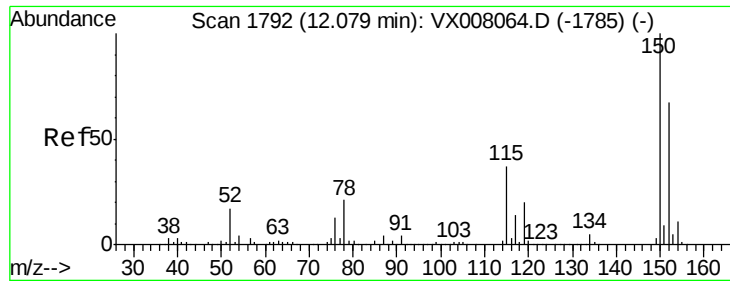


Abundance Ion 172.70 (172.40 to 173.40): V

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: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008083.D

Acq: 14 Mar 2019 21:33

Instrument :

MSVOA\_X

ClientSampleId :

CPA-CPMW02D-M20W2-030419

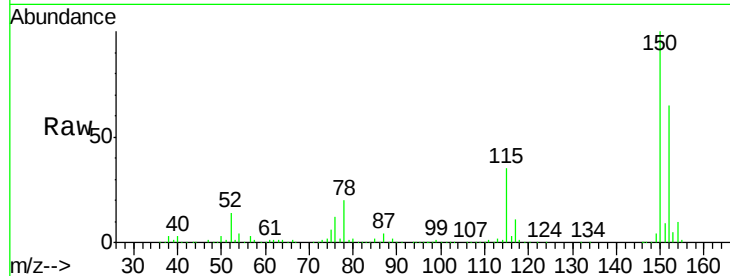
Tot Ion:152 Resp: 230159

Ion Ratio Lower Upper

152 100

115 54.3 38.6 115.7

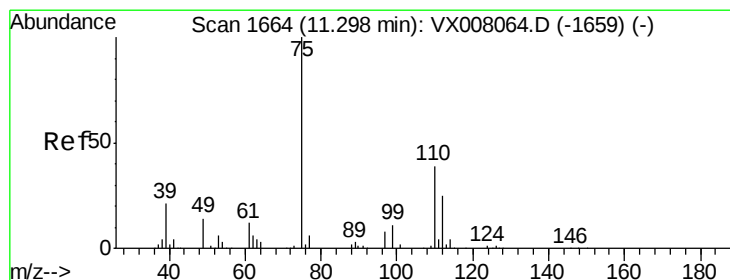
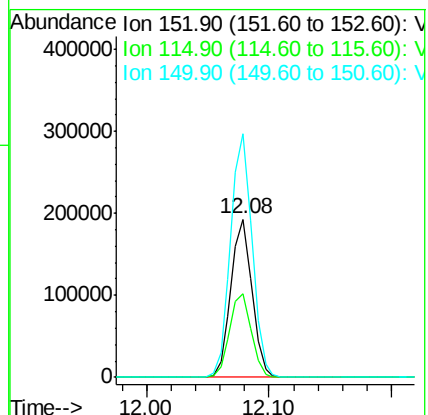
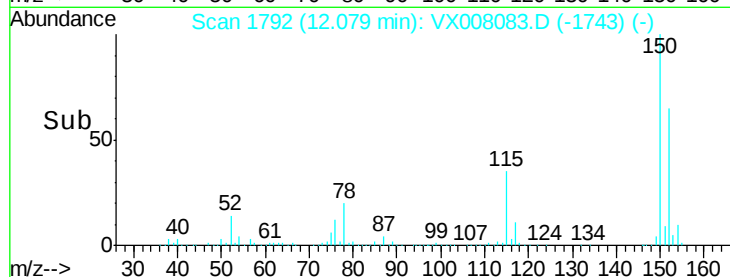
150 156.7 0.0 348.4



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: 24.184 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008083.D

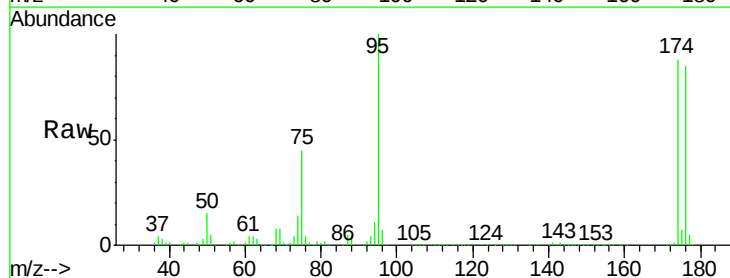
Acq: 14 Mar 2019 21:33

Tgt Ion: 75 Resp: 96667

Ion Ratio Lower Upper

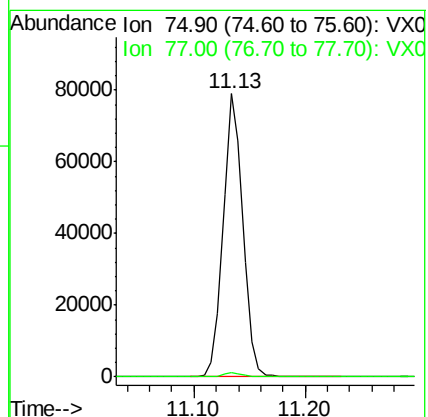
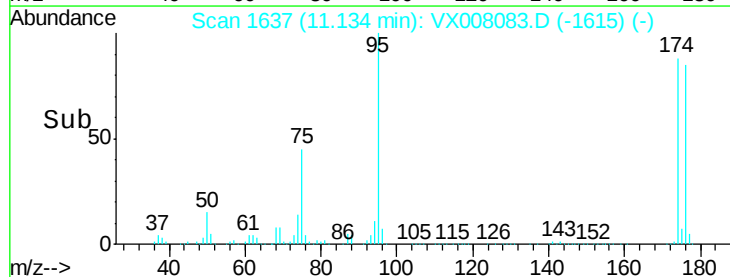
75 100

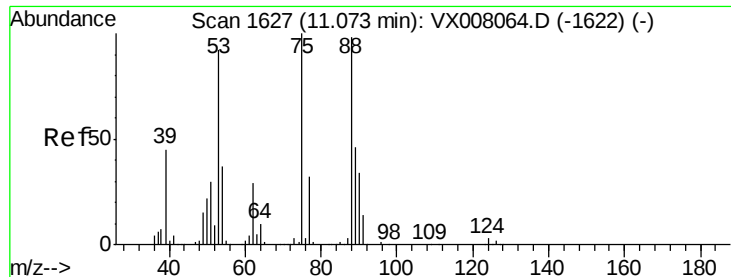
77 1.4 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 68.818 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008083.D

Acq: 14 Mar 2019 21:33

Instrument :

MSVOA\_X

ClientSampleId :

CPA-CPMW02D-M20W2-030419

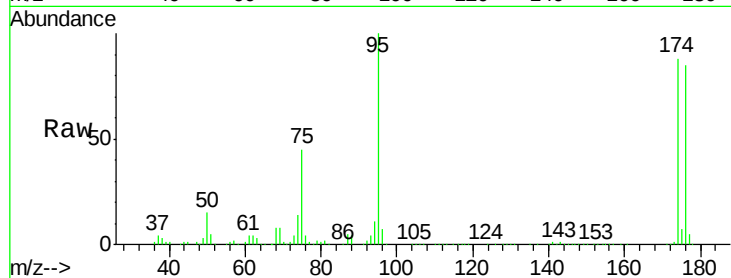
Tot Ion: 75 Resp: 96667

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#



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

