

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX093019\  
 Data File : VX012703.D  
 Acq On : 30 Sep 2019 14:22  
 Operator : JC/SP  
 Sample : K5081-08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-PZ182I-20190925

Quant Time: Oct 01 03:46:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 169498   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 295858   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 249787   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 96931    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 119967   | 48.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.20%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 90426    | 51.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.64% |          |
| 50) Toluene-d8              | 8.71  | 98   | 347426   | 51.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.40% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 117757   | 44.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.28%  |          |

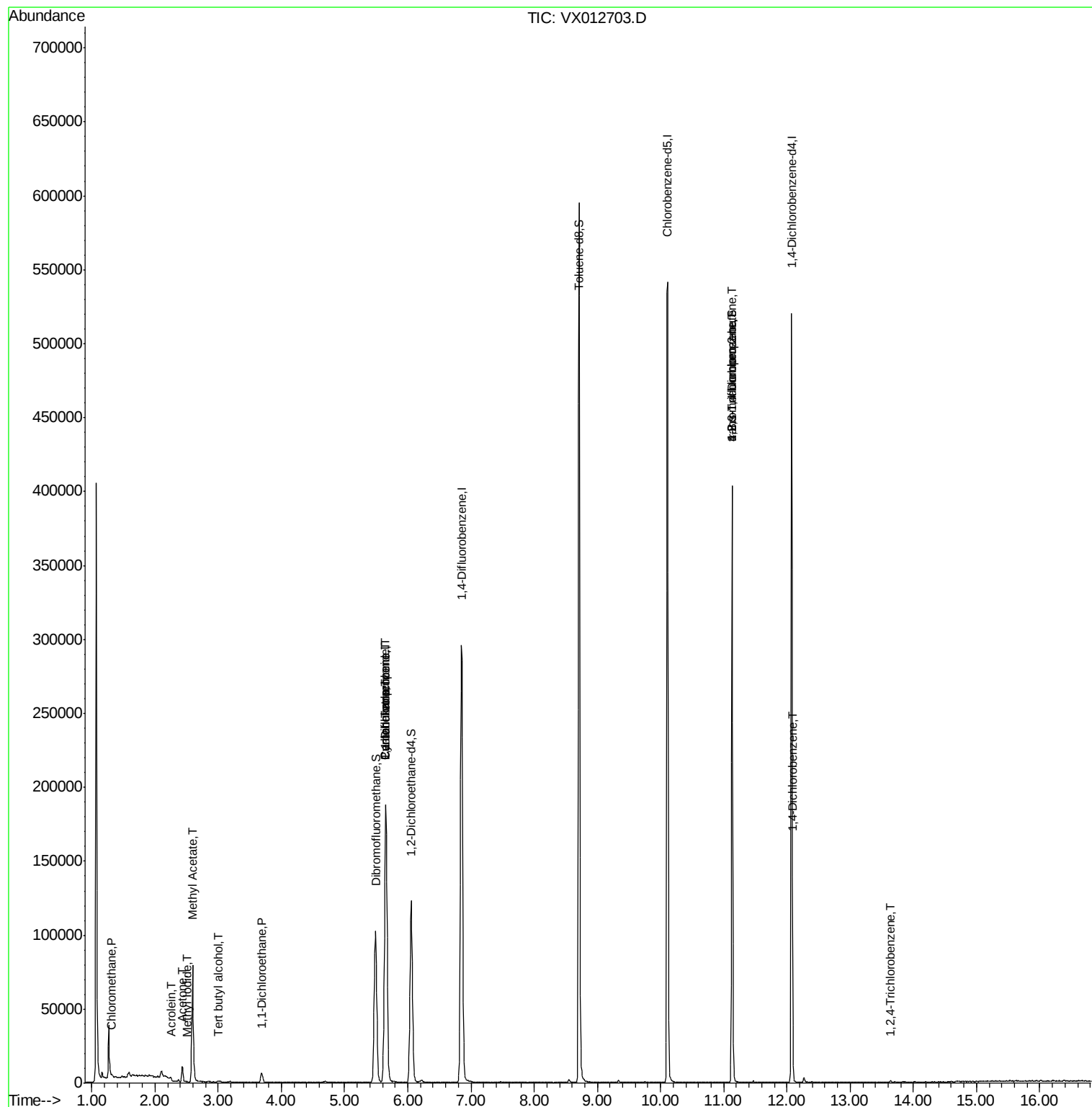
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 892      | 0.407  | ug/l   | 92     |
| 10) Methyl Iodide              | 2.50  | 142  | 236      | 5.061  | ug/l # | 35     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 1030     | 1.671  | ug/l # | 72     |
| 13) Acrolein                   | 2.27  | 56   | 22       | 10.294 | ug/l # | 15     |
| 16) Acetone                    | 2.43  | 43   | 11610    | 8.880  | ug/l   | 96     |
| 18) Methyl Acetate             | 2.59  | 43   | 20896    | 6.788  | ug/l # | 54     |
| 24) 1,1-Dichloroethane         | 3.69  | 63   | 7208     | 1.898  | ug/l   | 99     |
| 31) Cyclohexane                | 5.64  | 56   | 3811     | 1.109  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 14655    | 5.139  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 18871    | 6.514  | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 59308    | 23.130 | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 59308    | 66.287 | ug/l # | 8      |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 891      | 0.274  | ug/l # | 1      |
| 93) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 403      | 0.205  | ug/l   | 73     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX093019\  
Data File : VX012703.D  
Acq On : 30 Sep 2019 14:22  
Operator : JC/SP  
Sample : K5081-08  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-PZ182I-20190925

Quant Time: Oct 01 03:46:36 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 23 12:27:01 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012703.D

Acq: 30 Sep 2019 14:22

Instrument :

MSVOA\_X

ClientSampleId :

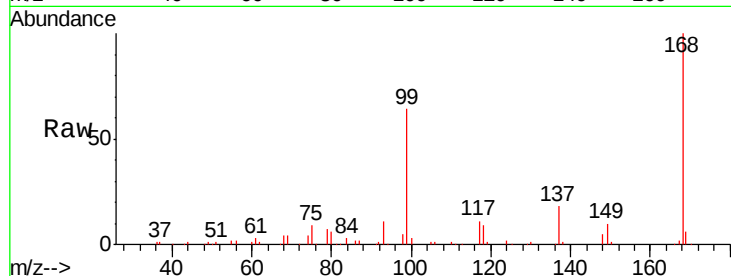
SA-PZ182I-20190925

Tgt Ion:168 Resp: 169498

Ion Ratio Lower Upper

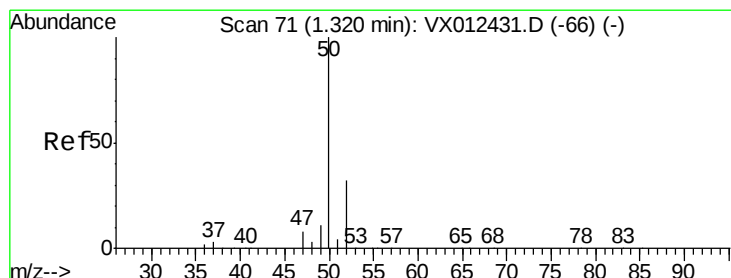
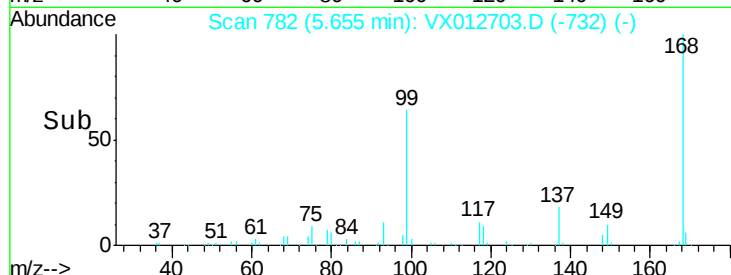
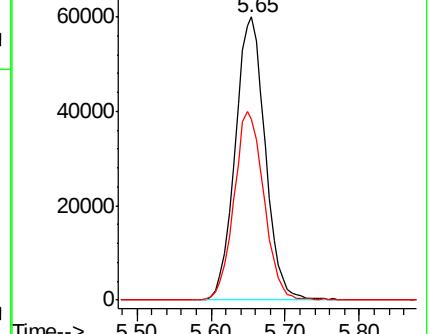
168 100

99 63.8 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.407 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX012703.D

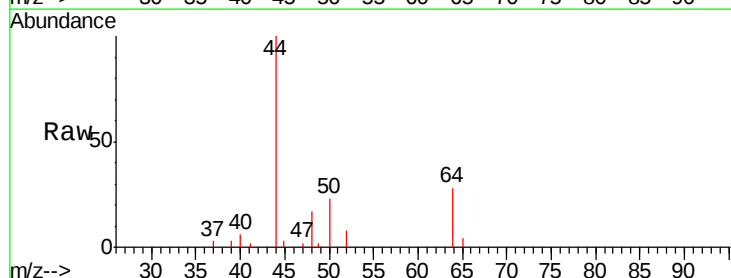
Acq: 30 Sep 2019 14:22

Tgt Ion: 50 Resp: 892

Ion Ratio Lower Upper

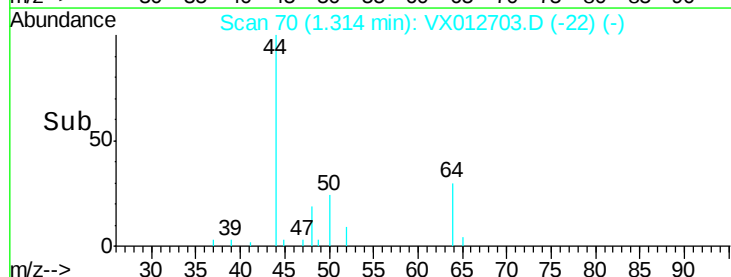
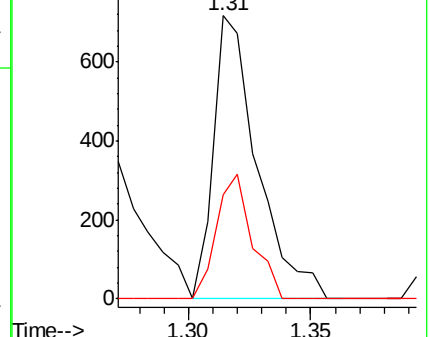
50 100

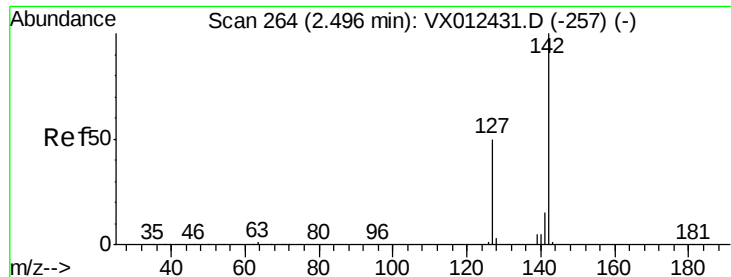
52 36.7 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#10

Methyl Iodide

Concen: 5.061 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012703.D

Acq: 30 Sep 2019 14:22

Instrument :

MSVOA\_X

ClientSampleId :

SA-PZ182I-20190925

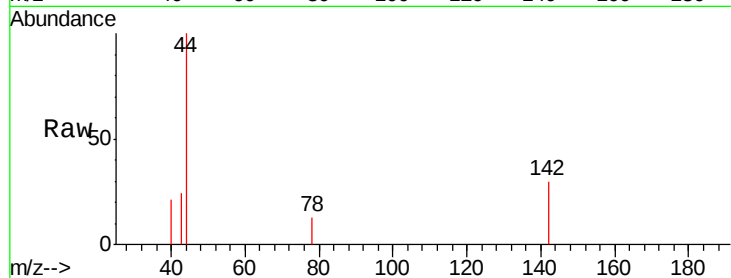
Tgt Ion: 142 Resp: 236

Ion Ratio Lower Upper

142 100

127 0.0 40.8 61.2#

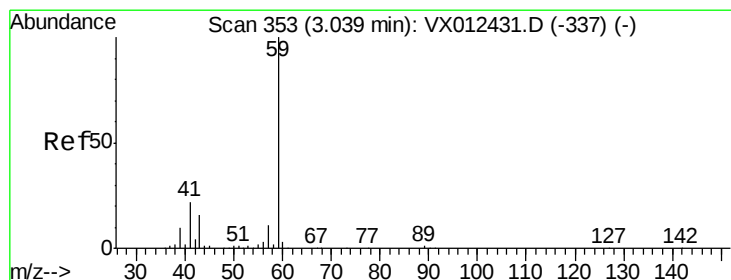
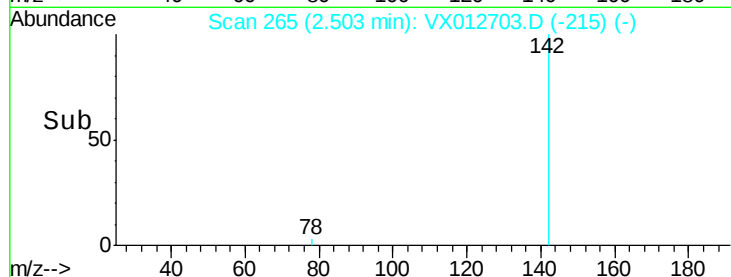
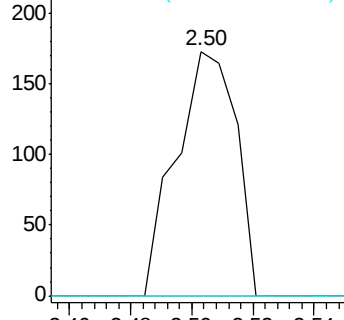
141 0.0 12.1 18.1#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 1.671 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX012703.D

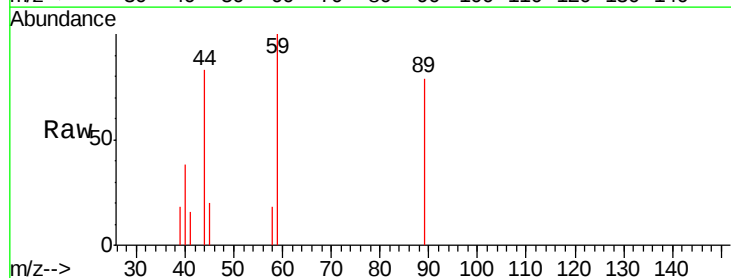
Acq: 30 Sep 2019 14:22

Tgt Ion: 59 Resp: 1030

Ion Ratio Lower Upper

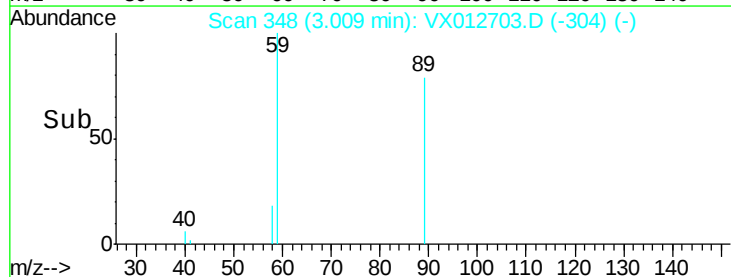
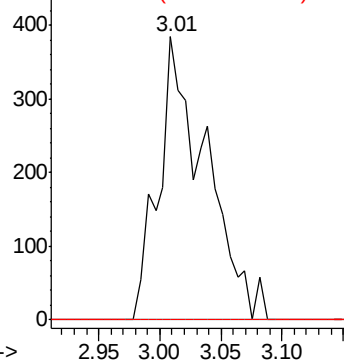
59 100

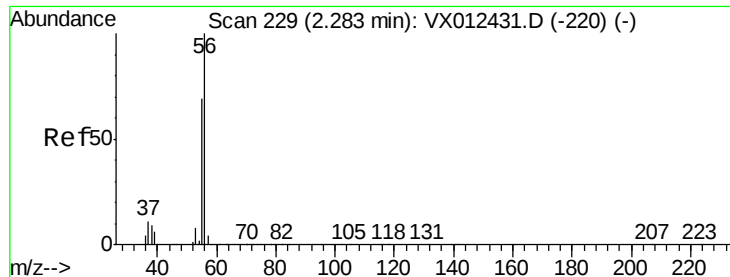
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 10.294 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX012703.D

Acq: 30 Sep 2019 14:22

Instrument :

MSVOA\_X

ClientSampleId :

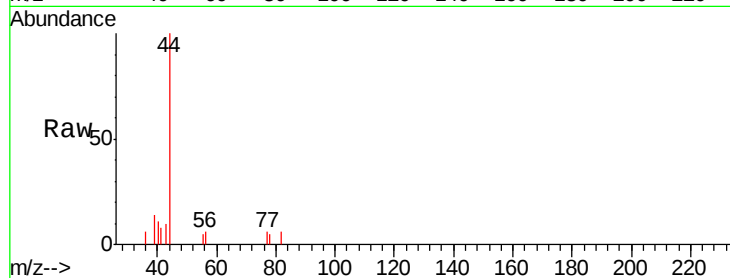
SA-PZ182I-20190925

Tgt Ion: 56 Resp: 22

Ion Ratio Lower Upper

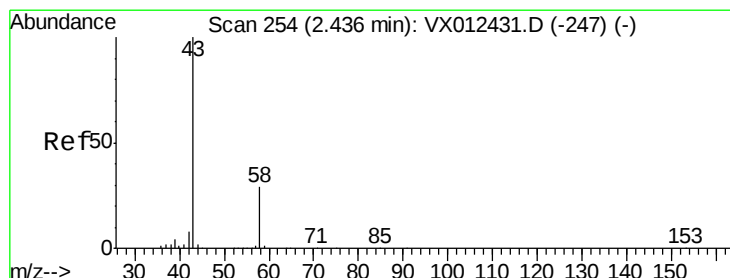
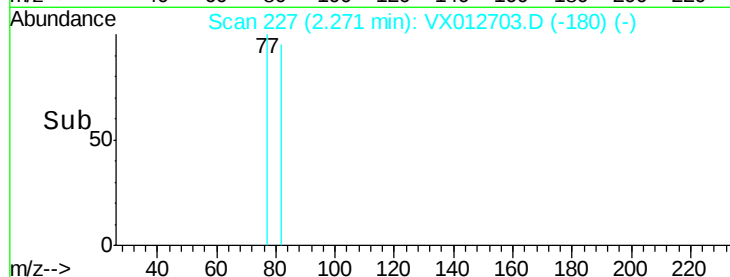
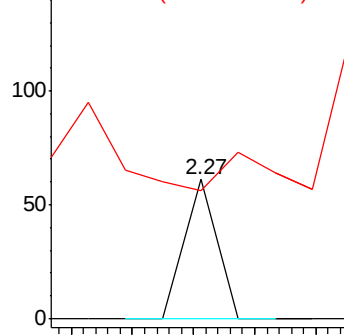
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 8.880 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012703.D

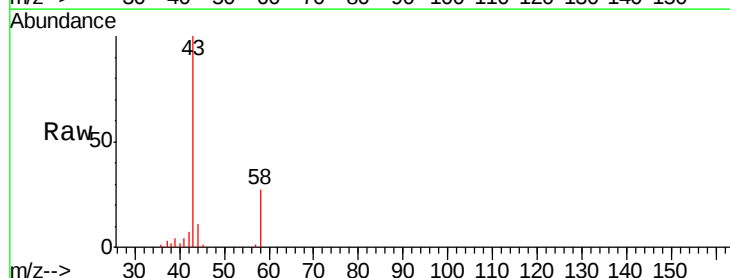
Acq: 30 Sep 2019 14:22

Tgt Ion: 43 Resp: 11610

Ion Ratio Lower Upper

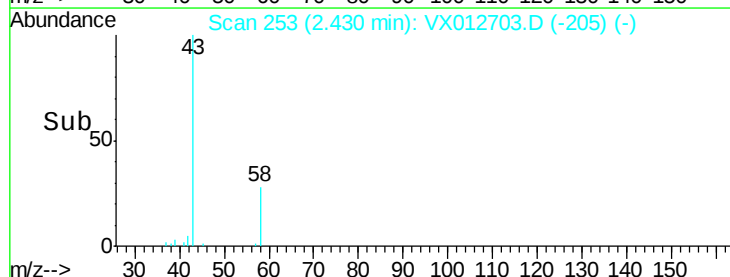
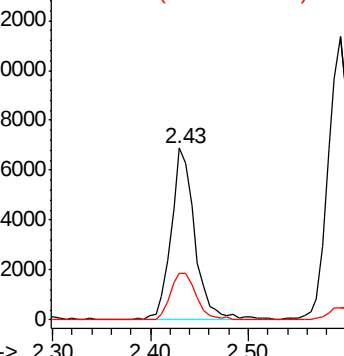
43 100

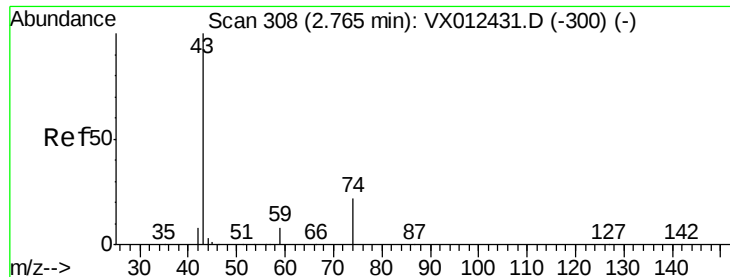
58 27.1 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

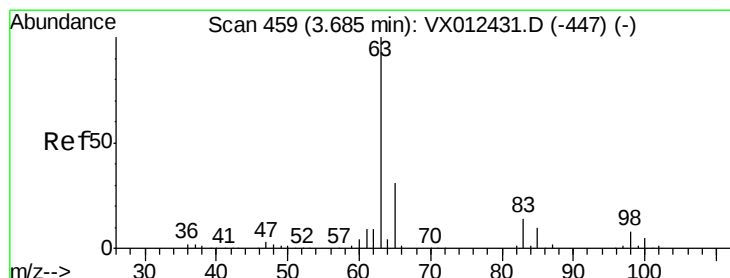
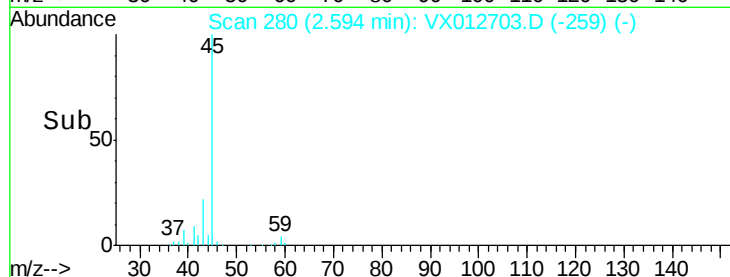
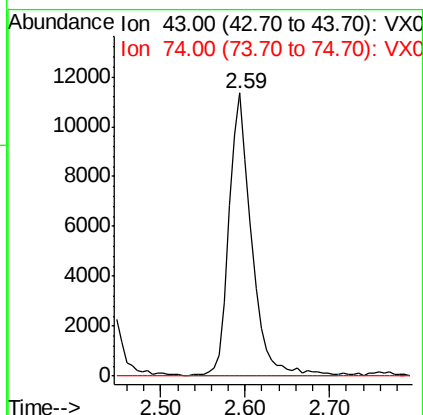
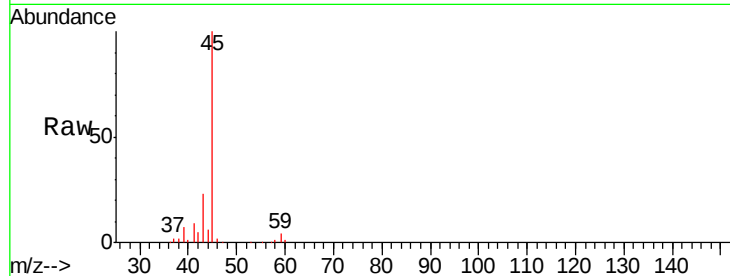




#18  
Methyl Acetate  
Concen: 6.788 ug/l  
RT: 2.59 min Scan# 280  
Delta R.T. -0.17 min  
Lab File: VX012703.D  
Acq: 30 Sep 2019 14:22

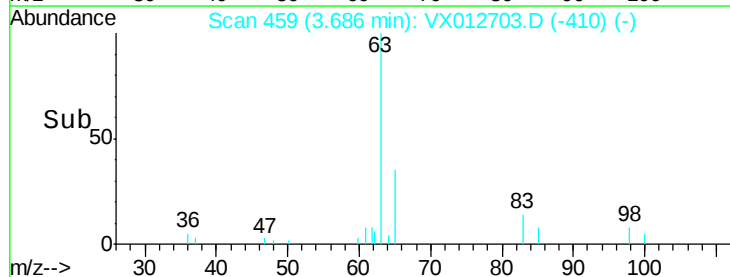
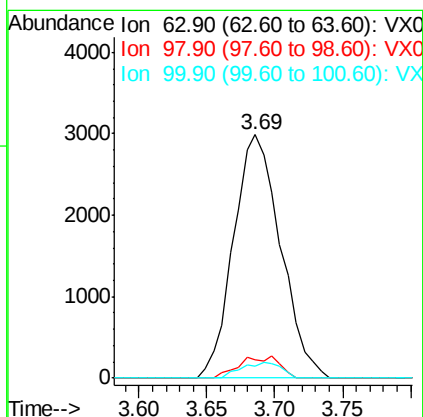
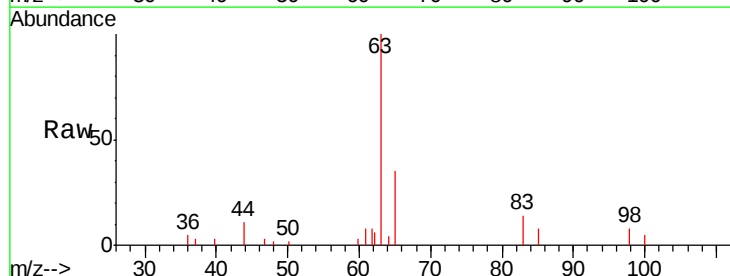
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-PZ182I-20190925

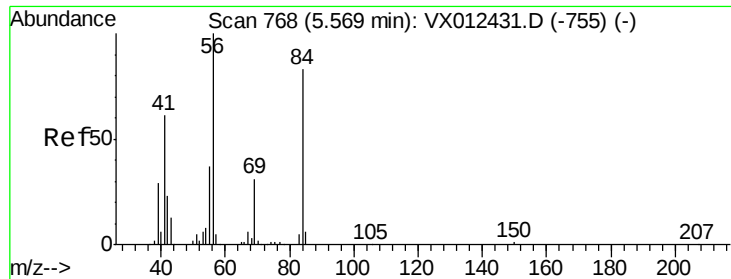
Tgt Ion: 43 Resp: 20896  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.7 26.5#



#24  
1,1-Dichloroethane  
Concen: 1.898 ug/l  
RT: 3.69 min Scan# 459  
Delta R.T. 0.00 min  
Lab File: VX012703.D  
Acq: 30 Sep 2019 14:22

Tgt Ion: 63 Resp: 7208  
Ion Ratio Lower Upper  
63 100  
98 7.6 3.9 11.7  
100 4.9 2.3 6.9

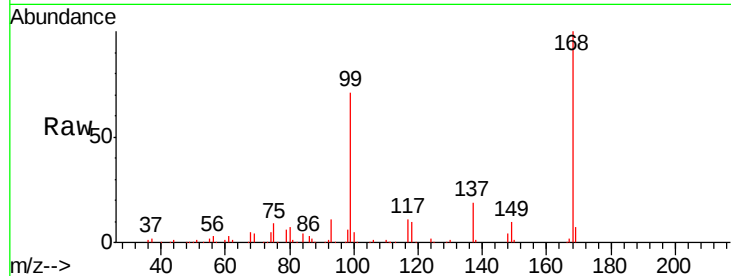




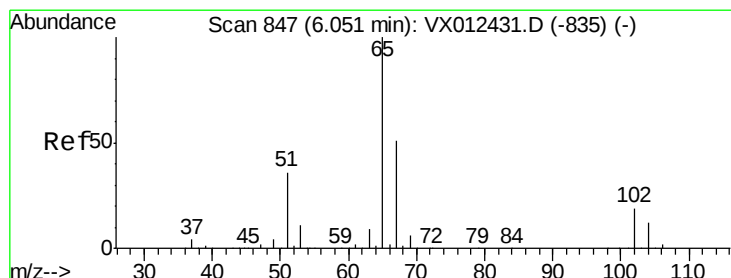
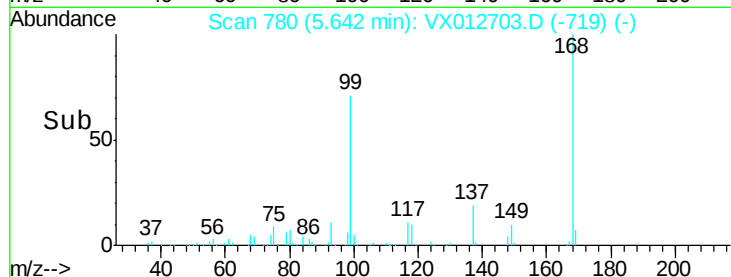
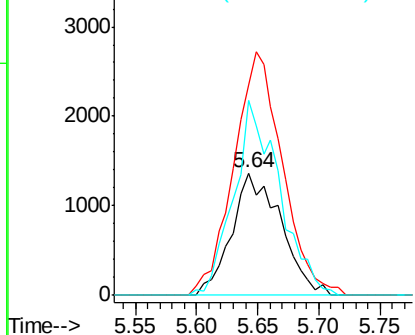
#31  
Cyclohexane  
Concen: 1.109 ug/l  
RT: 5.64 min Scan# 780  
Delta R.T. 0.07 min  
Lab File: VX012703.D  
Acq: 30 Sep 2019 14:22

Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-PZ182I-20190925

Tgt Ion: 56 Resp: 3811  
Ion Ratio Lower Upper  
56 100  
69 172.3 25.0 37.6#  
84 159.0 66.4 99.6#

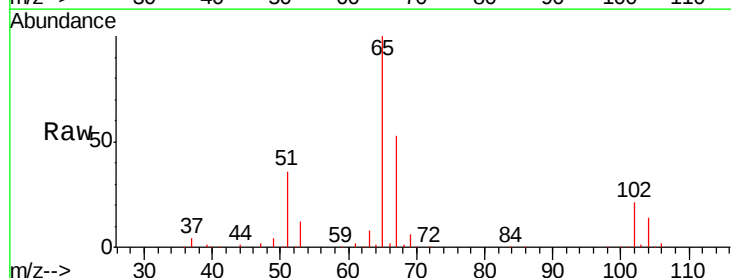


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

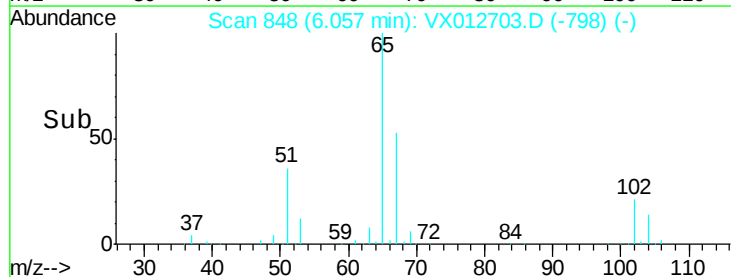
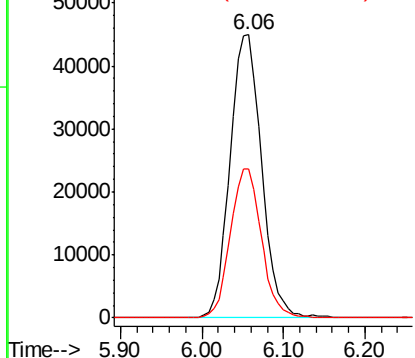


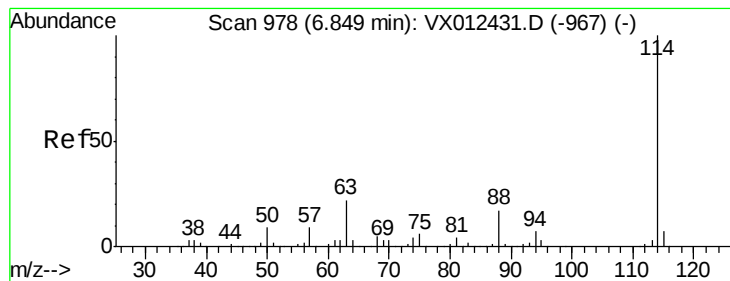
#33  
1,2-Dichloroethane-d4  
Concen: 48.605 ug/l  
RT: 6.06 min Scan# 848  
Delta R.T. 0.01 min  
Lab File: VX012703.D  
Acq: 30 Sep 2019 14:22

Tgt Ion: 65 Resp: 119967  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 101.2



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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012703.D

Acq: 30 Sep 2019 14:22

Instrument :

MSVOA\_X

ClientSampleId :

SA-PZ182I-20190925

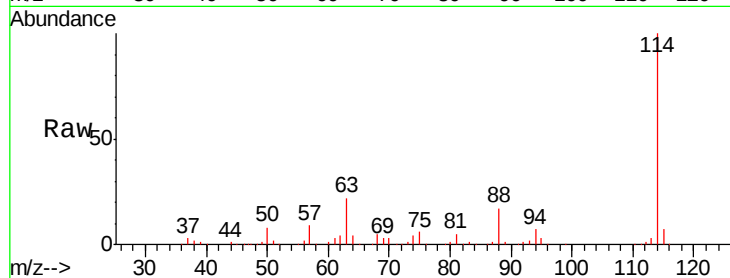
Tgt Ion:114 Resp: 295858

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.2

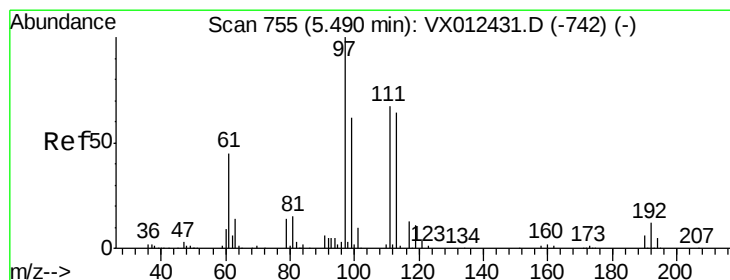
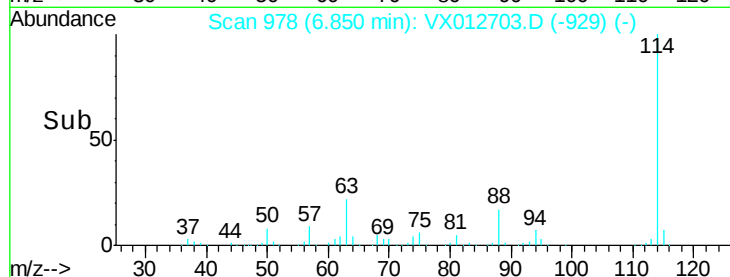
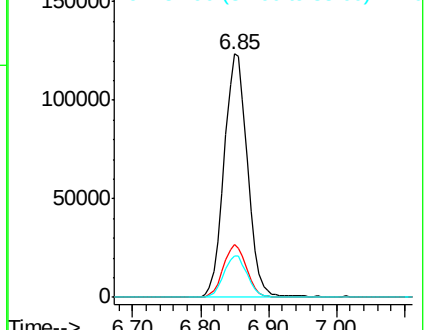
88 17.0 0.0 33.2



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: 51.321 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012703.D

Acq: 30 Sep 2019 14:22

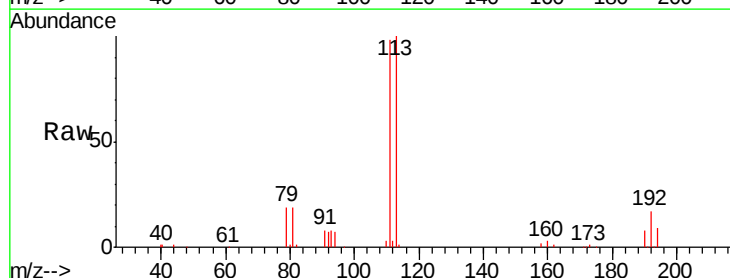
Tgt Ion:113 Resp: 90426

Ion Ratio Lower Upper

113 100

111 101.4 83.4 125.2

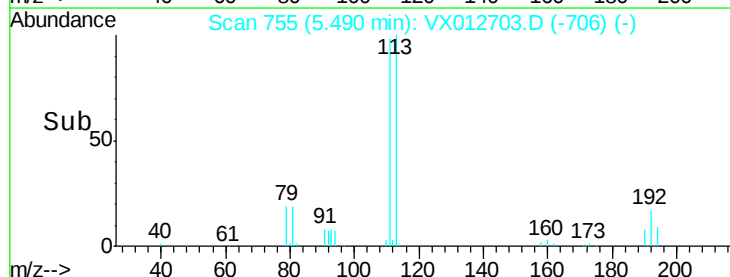
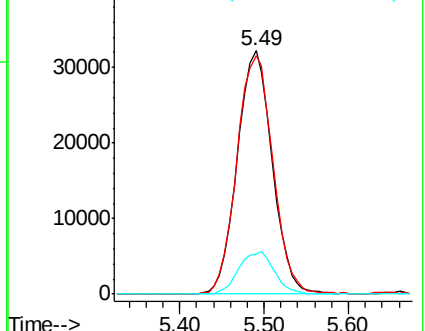
192 17.8 14.4 21.6

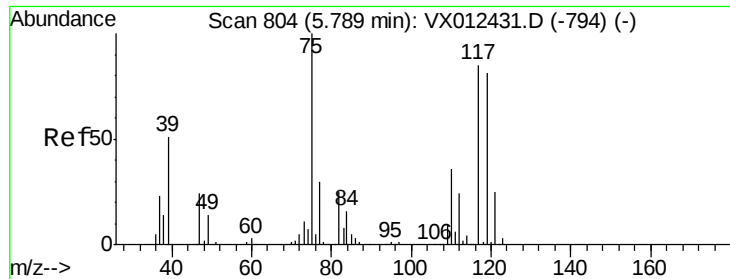


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

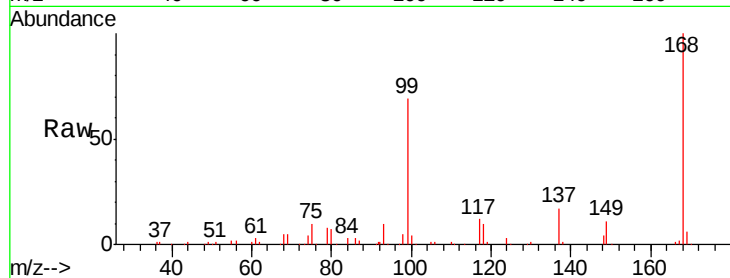




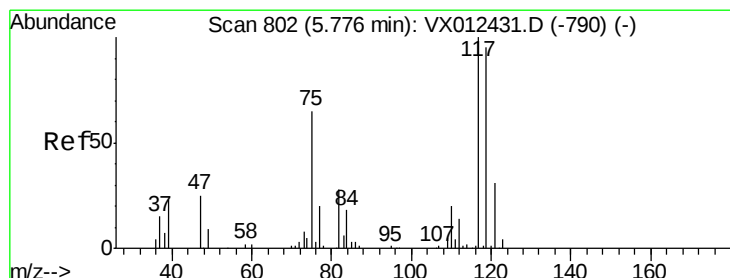
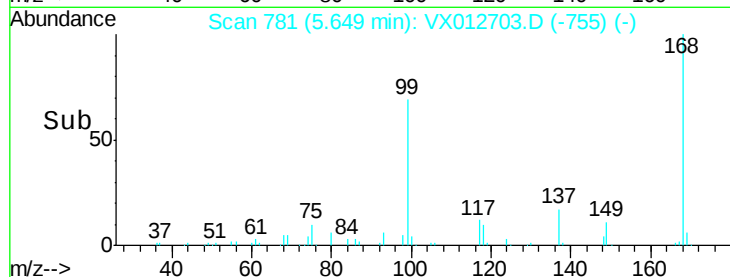
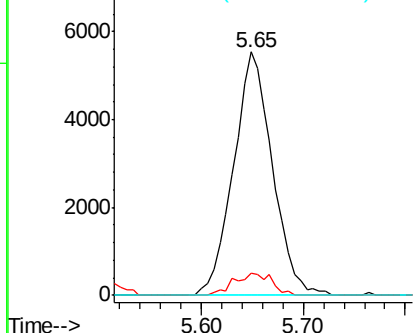
#36  
 1,1-Dichloropropene  
 Concen: 5.139 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.14 min  
 Lab File: VX012703.D  
 Acq: 30 Sep 2019 14:22

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-PZ182I-20190925

Tgt Ion: 75 Resp: 14655  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 16.7 50.0#  
 77 0.0 24.2 36.2#

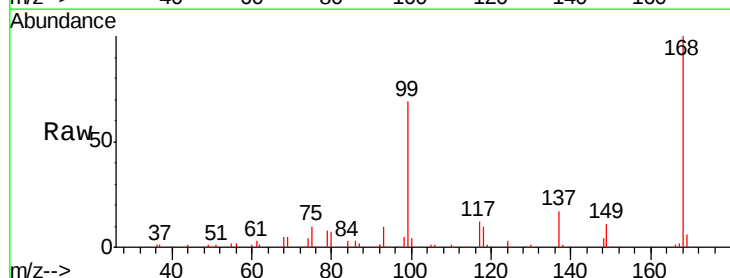


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

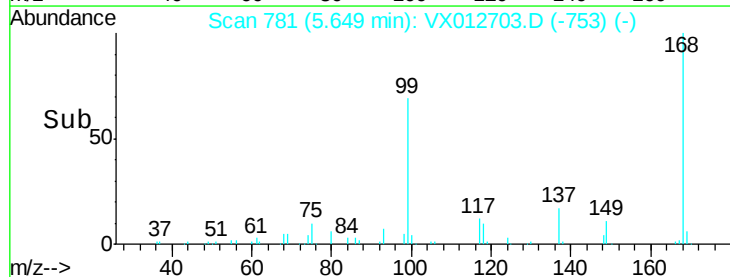
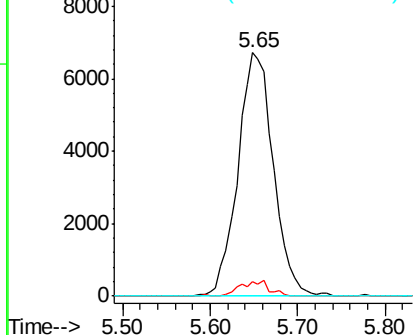


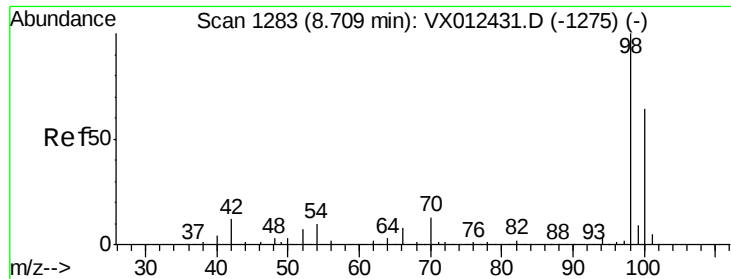
#38  
 Carbon Tetrachloride  
 Concen: 6.514 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.13 min  
 Lab File: VX012703.D  
 Acq: 30 Sep 2019 14:22

Tgt Ion: 117 Resp: 18871  
 Ion Ratio Lower Upper  
 117 100  
 119 5.9 75.7 113.5#  
 121 0.0 24.2 36.4#



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

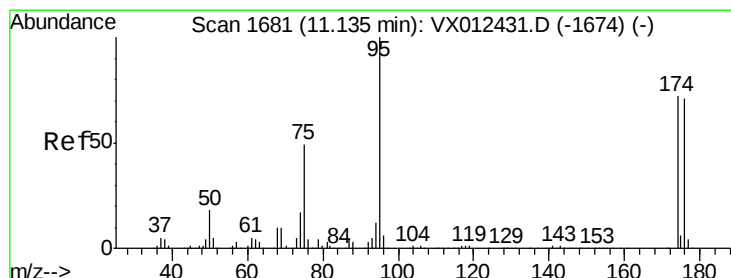
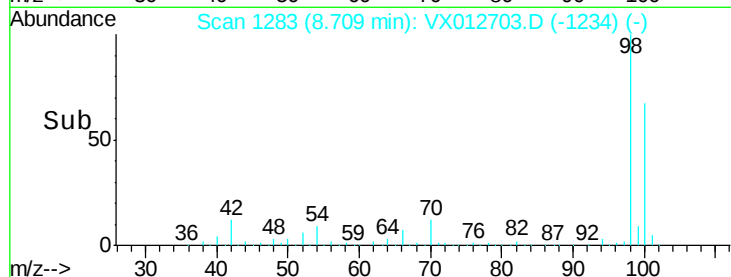
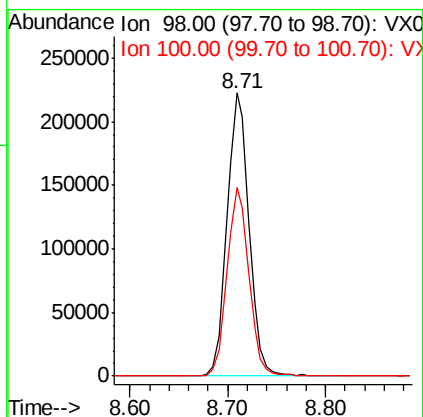
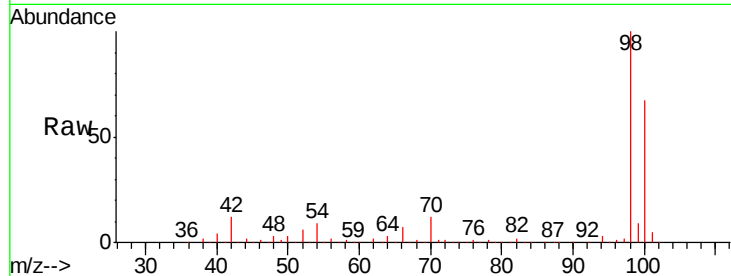




#50  
Toluene-d8  
Concen: 51.202 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX012703.D  
Acq: 30 Sep 2019 14:22

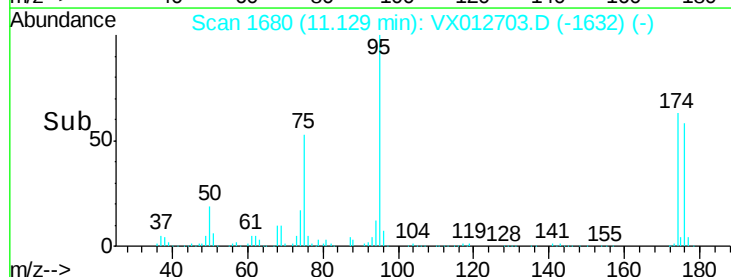
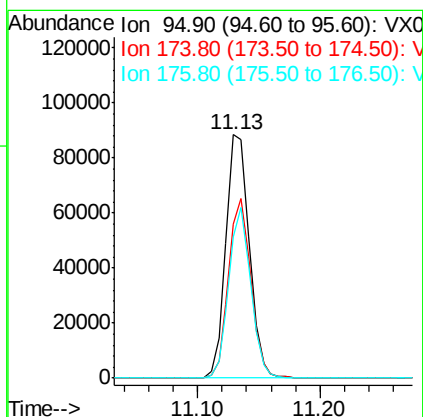
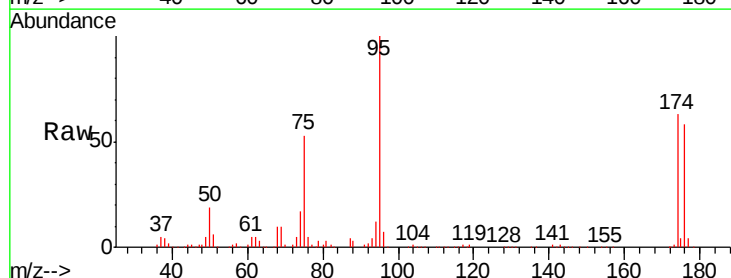
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-PZ182I-20190925

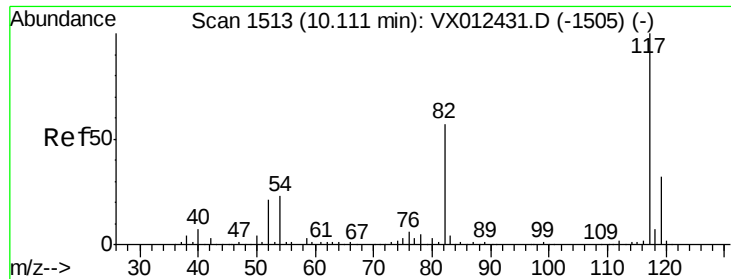
Tgt Ion: 98 Resp: 347426  
Ion Ratio Lower Upper  
98 100  
100 66.2 53.4 80.2



#62  
4-Bromofluorobenzene  
Concen: 44.136 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. -0.01 min  
Lab File: VX012703.D  
Acq: 30 Sep 2019 14:22

Tgt Ion: 95 Resp: 117757  
Ion Ratio Lower Upper  
95 100  
174 70.3 0.0 140.0  
176 65.4 0.0 135.4

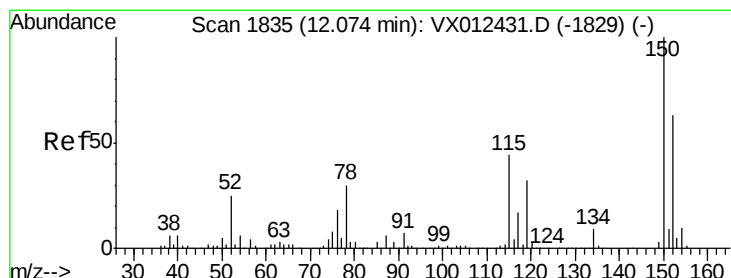
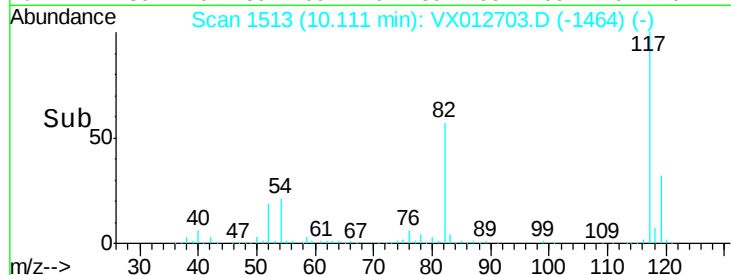
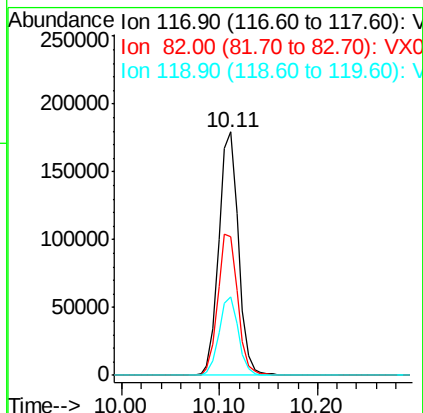
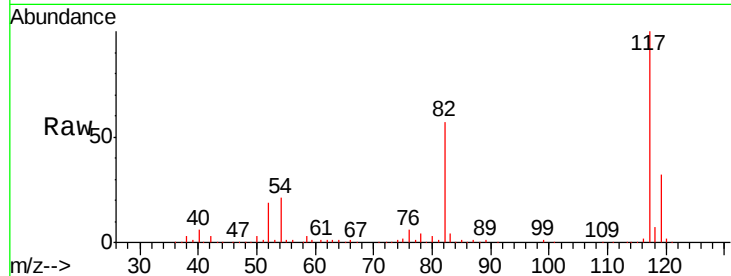




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX012703.D  
Acq: 30 Sep 2019 14:22

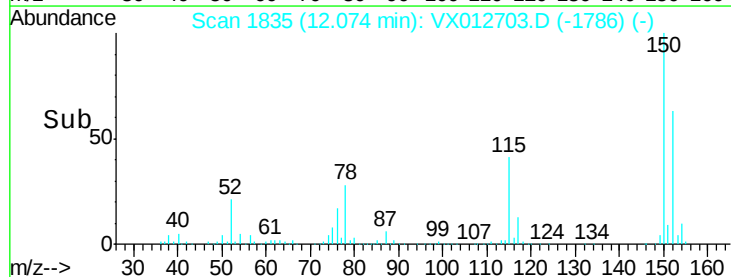
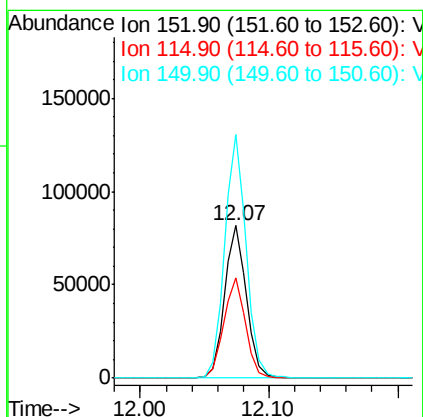
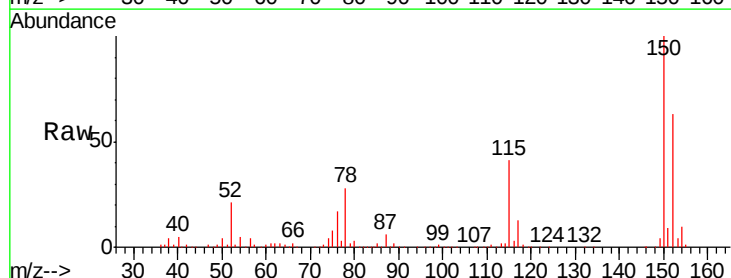
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-PZ182I-20190925

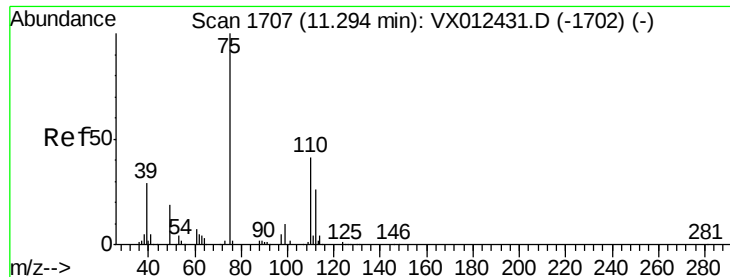
Tgt Ion:117 Resp: 249787  
Ion Ratio Lower Upper  
117 100  
82 57.2 45.9 68.9  
119 32.1 25.3 37.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX012703.D  
Acq: 30 Sep 2019 14:22

Tgt Ion:152 Resp: 96931  
Ion Ratio Lower Upper  
152 100  
115 65.7 44.1 132.3  
150 157.9 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 23.130 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012703.D

Acq: 30 Sep 2019 14:22

Instrument :

MSVOA\_X

ClientSampleId :

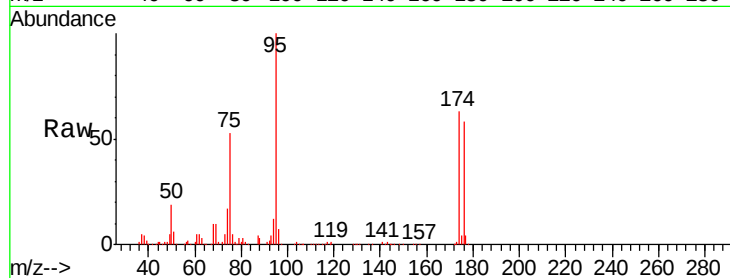
SA-PZ182I-20190925

Tgt Ion: 75 Resp: 59308

Ion Ratio Lower Upper

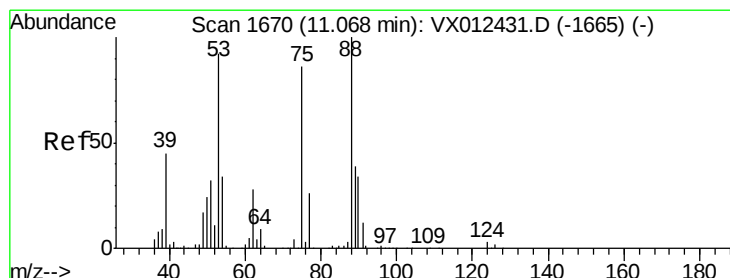
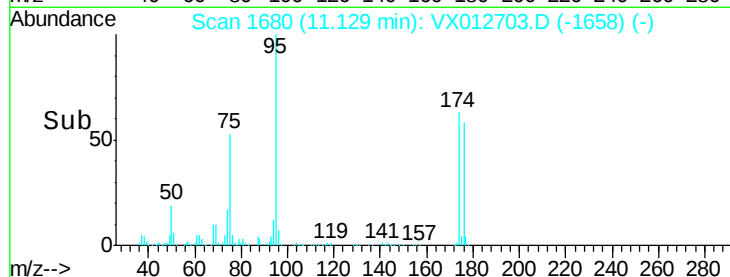
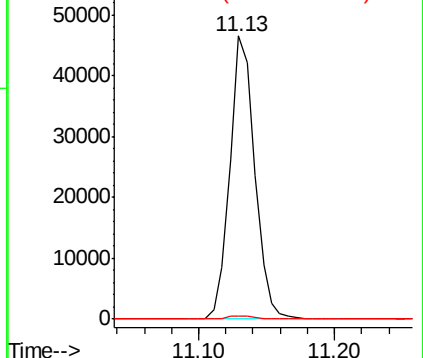
75 100

77 1.1 19.7 59.0#



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: 66.287 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012703.D

Acq: 30 Sep 2019 14:22

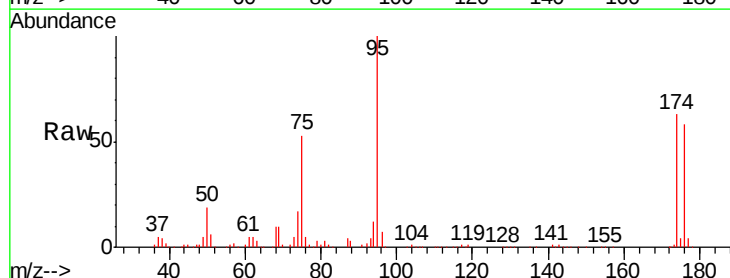
Tgt Ion: 75 Resp: 59308

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

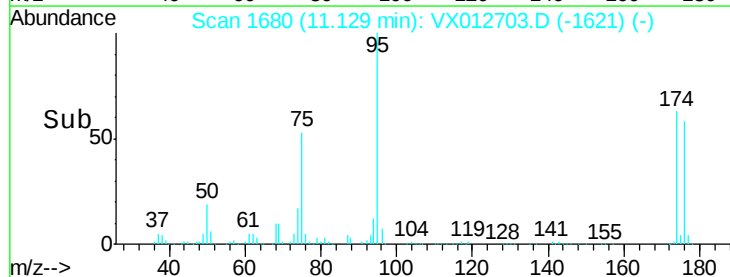
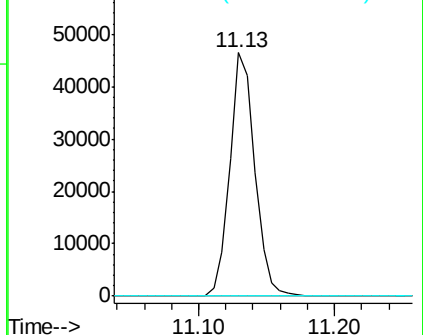
89 0.1 36.3 54.5#

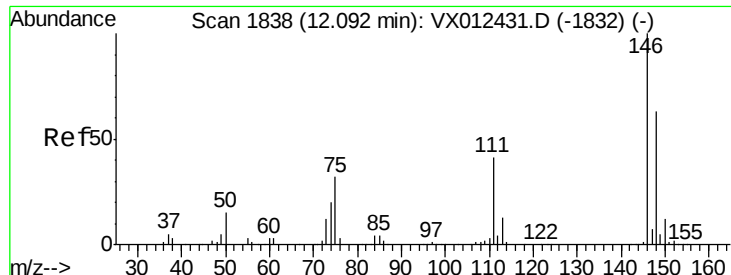


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#88

1,4-Dichlorobenzene

Concen: 0.274 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX012703.D

Acq: 30 Sep 2019 14:22

Instrument :

MSVOA\_X

ClientSampleId :

SA-PZ182I-20190925

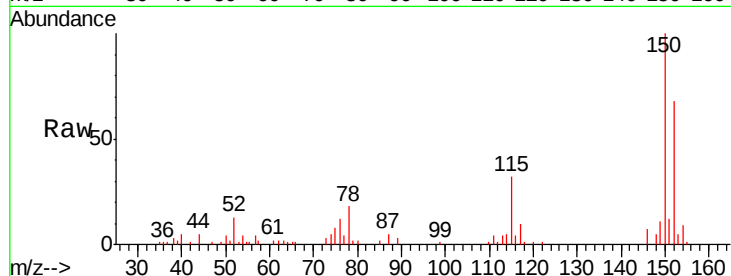
Tgt Ion:146 Resp: 891

Ion Ratio Lower Upper

146 100

111 191.4 21.1 63.3#

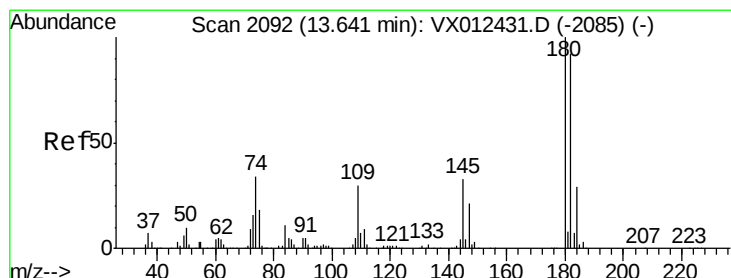
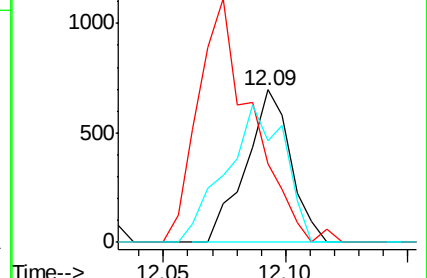
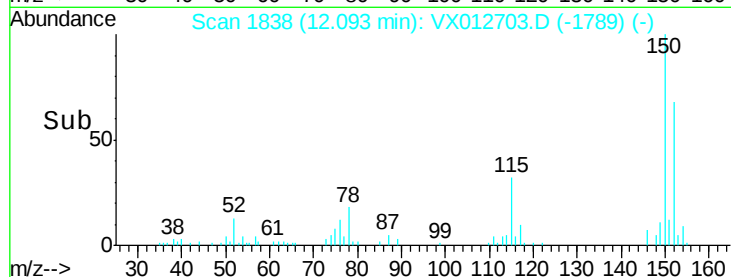
148 116.4 32.1 96.5#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.205 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX012703.D

Acq: 30 Sep 2019 14:22

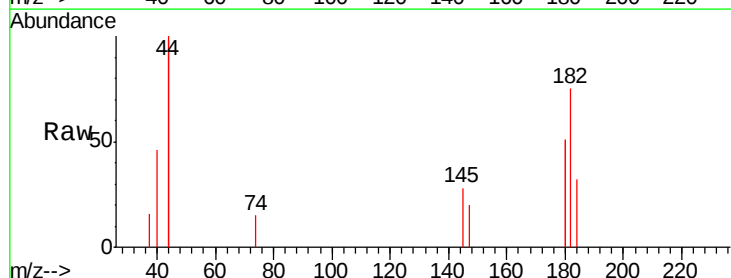
Tgt Ion:180 Resp: 403

Ion Ratio Lower Upper

180 100

182 60.8 47.0 141.0

145 29.8 16.8 50.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

